



FEASIBILITY STUDY REPORT  
PATRICK BAYOU SUPERFUND SITE  
DEER PARK, TEXAS

**Prepared for**

Patrick Bayou Joint Defense Group  
U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC  
614 Magnolia Avenue  
Ocean Springs, Mississippi 39564

**March 2017**

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## TABLE OF CONTENTS

1	INTRODUCTION .....	1
1.1	Purpose and Organization of the Report.....	2
1.2	Regulatory Background.....	2
2	BACKGROUND INFORMATION.....	5
2.1	Site Location and History.....	5
2.2	Aquatic Land Ownership .....	6
2.3	Land Use.....	7
2.3.1	Recreational and Navigational Use.....	7
2.4	Ecological Conditions.....	8
2.5	Physical Description.....	10
2.5.1	Bathymetry and Topography.....	10
2.5.2	Adjacent Facilities, Infrastructure, and Waterway Structures .....	11
2.5.3	Waterway Hydrodynamics.....	12
2.5.4	Streambed Characteristics and Sediment Transport .....	12
2.5.5	Upstream Stormwater Detention Basin .....	14
2.5.6	Port Terminal Railroad Association Bridge Improvements.....	15
2.6	Nature and Extent of Contamination .....	15
2.6.1	Contaminant Sources .....	15
2.6.2	Distribution of Indicator Chemicals.....	17
2.6.2.1	Surface Sediment .....	18
2.6.2.2	Subsurface Sediment .....	19
2.6.2.3	Porewater.....	20
2.6.2.4	Surface Water .....	22
2.6.2.5	Tissue.....	24
2.6.2.6	Mean Probable Effects Level Quotient .....	25
2.6.3	Chemical Characteristics of Indicator Chemicals.....	26
2.6.3.1	Polychlorinated Biphenyls.....	27
2.6.3.2	Total Polycyclic Aromatic Hydrocarbons.....	27
2.6.3.3	Bis(2-ethylhexyl) Phthalate .....	28
2.6.3.4	Lead and Mercury.....	28
2.6.3.5	Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans.....	29

2.7	Contaminant Fate and Transport.....	29
2.7.1	Fate and Transport Modeling .....	32
<b>3</b>	<b>BASIS FOR REMEDIAL ACTION .....</b>	<b>34</b>
3.1	Remedial Action Objectives.....	34
3.2	Benthic Risk Remedial Action Objectives .....	34
3.2.1	Summary of the BERA Risk Characterization.....	35
3.2.2	Identification of Preliminary Remediation Goal for Benthic Risk.....	36
3.3	Aquatic-dependent Wildlife RAO.....	36
3.4	PCB Surface Water Remedial Action Objective.....	37
3.5	Mercury and PCDD/PCDF TEQ Risk Summary.....	38
3.6	Applicable or Relevant and Appropriate Requirements and Other Advisories, Criteria, or Guidance To Be Considered .....	39
3.6.1	Water Quality and Water Resources .....	40
3.6.1.1	Section 303 and 304 of the Clean Water Act and Texas Surface Water Quality Standards .....	40
3.6.1.2	Section 401 Water Quality Certification of the Clean Water Act as Administered by Texas.....	41
3.6.1.3	Section 404 and 404(b)(1) of the Clean Water Act and Texas Parks and Wildlife Commission Marl, Sand, and Gravel Permit.....	41
3.6.1.4	Texas Pollutant Discharge Elimination System.....	41
3.6.1.5	Rivers and Harbor Act, Texas State Code Obstructions to Navigation, and Port Authority of Houston Marine Construction Permit .....	42
3.6.2	Protected Species Requirements.....	42
3.6.3	Coastal Zone Management and Texas Coastal Management Plan.....	43
3.6.4	Floodplain .....	43
3.6.5	Cultural Resources Management.....	43
3.6.6	Noise Control Act.....	46
3.6.7	Hazardous Materials Transportation and Waste Management .....	46
<b>4</b>	<b>DEVELOPMENT OF REMEDIAL ALTERNATIVES .....</b>	<b>47</b>
4.1	Delineation of Sediment Management Areas .....	47
4.1.1	Sediment Management Area Delineation Approach for PCB Surface Water Remedial Action Objective.....	47

4.1.2	Delineation Approach for Benthic Risk Sediment Management Areas.....	48
4.1.2.1	Evaluating Baseline Conditions.....	49
4.1.2.2	Evaluating Future Conditions.....	50
4.1.2.3	Delineation of Benthic Risk Sediment Management Areas.....	52
4.1.3	Delineation of Natural Recovery Areas.....	52
4.1.4	Summary of Sediment Management Area Delineation.....	52
4.2	Remedial Technologies Screening.....	53
4.2.1	Institutional Controls.....	54
4.2.2	Monitored Natural Recovery.....	54
4.2.2.1	Monitored Natural Recovery Surface Water Monitoring.....	55
4.2.2.2	Porewater Monitoring.....	56
4.2.2.2	Surface Sediment Monitoring.....	56
4.2.3	Containment.....	57
4.2.3.1	Aggregate Caps.....	58
4.2.3.2	Articulated Concrete Block Mat Caps.....	59
4.2.4	Treatment.....	59
4.2.5	Removal.....	62
4.2.5.1	Removal Best Management Practices.....	63
4.2.5.2	Disposal.....	64
4.3	Assembly of Remedial Alternatives.....	64
4.3.1	Alternative 1 – No Further Action.....	65
4.3.2	Alternative 2 – Monitored Natural Recovery.....	65
4.3.3	Alternative 3 – Monitored Natural Recovery, SMA-1 Capping, and SMA-2 through SMA-9 Treatment.....	68
4.3.4	Alternative 4 – Monitored Natural Recovery and SMA-1 through SMA-9 Capping.....	71
<b>5</b>	<b>DETAILED ANALYSIS OF REMEDIAL ALTERNATIVES.....</b>	<b>74</b>
5.1	Alternative 1 – No Further Action.....	76
5.1.1	Threshold Criteria.....	76
5.1.1.1	Overall Protection of Human Health and the Environment.....	76
5.1.1.2	Compliance with ARARs.....	76
5.1.2	Balancing Criteria.....	77
5.2	Alternative 2 – Monitored Natural Recovery.....	77

5.2.1	Threshold Criteria .....	77
5.2.1.1	Overall Protection of Human Health and the Environment .....	77
5.2.1.2	Compliance with ARARs .....	78
5.2.2	Balancing Criteria .....	78
5.2.2.1	Long-term Effectiveness .....	78
5.2.2.2	Reduction of Toxicity, Mobility, or Volume .....	79
5.2.2.3	Short-term Effectiveness .....	79
5.2.2.4	Implementability .....	79
5.2.2.5	Cost .....	79
5.3	Alternative 3 – Monitored Natural Recovery, SMA-1 Capping, and SMA-2 through SMA-9 Treatment .....	80
5.3.1	Threshold Criteria .....	80
5.3.1.1	Overall Protection of Human Health and the Environment .....	80
5.3.1.2	Compliance with ARARs .....	80
5.3.2	Balancing Criteria .....	81
5.3.2.1	Long-term Effectiveness .....	81
5.3.2.2	Reduction of Toxicity, Mobility, or Volume .....	82
5.3.2.3	Short-term Effectiveness .....	82
5.3.2.4	Implementability .....	84
5.3.2.5	Cost .....	84
5.4	Alternative 4 – Monitored Natural Recovery and SMA-1 through SMA-9 Capping ..	85
5.4.1	Threshold Criteria .....	85
5.4.1.1	Overall Protection of Human Health and the Environment .....	85
5.4.1.2	Compliance with ARARs .....	85
5.4.2	Balancing Criteria .....	86
5.4.2.1	Long-term Effectiveness .....	86
5.4.2.2	Reduction of Toxicity, Mobility, or Volume .....	86
5.4.2.3	Short-term Effectiveness .....	87
5.4.2.4	Implementability .....	88
5.4.2.5	Cost .....	89
<b>6</b>	<b>COMPARATIVE ANALYSIS OF ALTERNATIVES .....</b>	<b>90</b>
6.1	Threshold Criteria .....	90
6.1.1	Overall Protection of Human Health and the Environment .....	90

6.1.2	Compliance with ARARs .....	91
6.2	Balancing Criteria .....	91
6.2.1	Long-term Effectiveness .....	91
6.2.2	Reduction of Toxicity, Mobility, or Volume .....	92
6.2.3	Short-term Effectiveness .....	92
6.2.4	Implementability .....	93
6.2.5	Cost .....	94
6.3	Summary of Comparative Evaluation .....	94
<b>7</b>	<b>REFERENCES .....</b>	<b>96</b>

### List of Tables

Table 2-1	Houston Ship Channel Background Dataset
Table 2-2	Summary Statistics for Houston Ship Channel Background Dataset
Table 2-3	Fate and Transport Chemical Properties of Indicator Chemicals
Table 3-1	Sediment Toxicity and Chemistry Lines of Evidence as Presented in the BERA
Table 3-2	Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report
Table 4-1	Mean PEL-Q and Half-life Evaluation
Table 4-2	Summary of SMA Delineation
Table 4-3	Aggregate Cap Armor Sizing
Table 4-4	Summary of Quantities, Durations, and Short-term Impacts
Table 5-1	Detailed Evaluation of Remedial Alternatives
Table 6-1	Comparative Evaluation of Remedial Alternatives

### List of Figures

Figure 1-1	Patrick Bayou Superfund Site Vicinity Map
Figure 2-1	Patrick Bayou Superfund Site Boundaries
Figure 2-2	Property Ownership
Figure 2-3	Surrounding Land Use Based on H-GAC Data
Figure 2-4	Total PCB Results in Surface Sediment Samples

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Figure 2-5	Total PAH Results in Surface Sediment Samples
Figure 2-6	Total BEHP Results in Surface Sediment Samples
Figure 2-7	Total Lead Results in Surface Sediment Samples
Figure 2-8	2,3,7,8-TCDD TEQ Results in Surface Sediment Samples
Figure 2-9	Mercury Results in Surface Sediment Samples
Figure 2-10	Surface Sediment Samples Upstream of Site Boundary
Figure 2-11	Subsurface Sampling Locations
Figure 2-12	Vertical Distribution of Total PCBs in Patrick Bayou
Figure 2-13	Vertical Distribution of Total PAH in Patrick Bayou
Figure 2-14	Vertical Distribution of Bis(2-Ethylhexyl)phthalate in Patrick Bayou
Figure 2-15	Vertical Distribution of Lead in Patrick Bayou
Figure 2-16	Vertical Distribution of 2378-TCDD TEQs in Patrick Bayou
Figure 2-17	Vertical Distribution of Mercury in Patrick Bayou
Figure 2-18	Total PCB Results in Porewater Samples
Figure 2-19	Total PAH Results in Porewater Samples
Figure 2-20	Bis(2-ethylhexyl)phthalate Results in Porewater Samples
Figure 2-21	Mercury Results in Porewater Samples
Figure 2-22	Patrick Bayou Surface Water Sample Locations
Figure 2-23	Spatial Profile of Water Column Total PCBs
Figure 2-24	Spatial Profile of Water Column 2378-TCDD TEQs
Figure 2-25	Spatial Profile of Water Column Mercury
Figure 2-26	Spatial Profile of Water Column Total PCB in the Houston Ship Channel
Figure 2-27	Spatial Profile of Water Column 2378-TCDD TEQs in the Houston Ship Channel
Figure 2-28	PCB TEQ (avian) Results in Whole Body Shellfish Tissue Samples
Figure 2-29	PCB TEQ (avian) Results of Whole Body Gulf Killifish Tissue Samples
Figure 2-30	PCB TEQ (avian) Results in Whole Body Gulf Menhaden Tissue Samples
Figure 2-31	PCB TEQ (avian) Results in Whole Body Pinfish, Sand Seatrout, and Striped Mullet Tissue Samples
Figure 2-32	Optimized Mean PEL-Q Results in Surface Sediment Samples
Figure 2-33	Processes Affecting Chemical Fate and Transport
Figure 2-34	Mathematical Modeling Framework
Figure 3-1	Areas Exceeding Benthic Risk Preliminary Remediation Goal



Figure 3-2	Historical and Current Aerial Imagery
Figure 4-1	Sediment Management Areas
Figure 4-2	Adaptive Management Process
Figure 4-3	Plan View Alternative 2: Monitored Natural Recovery
Figure 4-4	Plan View Alternative 3: Monitored Natural Recovery, AC Treatment and ACBM
Figure 4-5	Treatment Processes
Figure 4-6	Plan View Alternative 4: Monitored Natural Recovery Zones and ACBM
Figure 4-7	ACBM Details

### **List of Appendices**

Appendix A	Chemical Fate and Transport Modeling Study
Appendix B	Preliminary Capping Assessment
Appendix C	Remedial Alternative Cost Development
Appendix D	Supplemental Surface Water Sampling Data Report
Appendix E	Empirical Evaluation of Natural Recovery Based on Surface Water Data
Appendix F	Alternatives Analysis for Institutional Controls

### **List of Attachments**

Attachment 1	Meeting Notes and Response to Comments on Draft Interim Final Feasibility Study Report
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## LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
AC	activated carbon
ACBM	Articulated Concrete Block Mat
ACT	Antiquities Code of Texas
Anchor QEA	Anchor QEA, LLC
AOC	Administrative Order on Consent
APE	Area of Potential Effect
ARAR	Applicable or Relevant and Appropriate Requirement
AVS	acid volatile sulfide
BEHP	bis(2-ethylhexyl) phthalate
BERA	Baseline Ecological Risk Assessment
BHHRA	Baseline Human Health Risk Assessment
BMP	best management practice
BTV	background threshold value
CDF	confined disposal facility
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cfs	cubic feet per second
cm	centimeter
COC	chemical of concern
COPC	chemical of potential concern
CWA	Clean Water Act
ESA	Endangered Species Act
FR	Federal Register
FS	Feasibility Study Report
GLO	Texas General Land Office
GRA	General Response Action
HSC	Houston Ship Channel
HQ	hazard quotient
IC	indicator chemical

JDG	Joint Defense Group
LOE	line-of-evidence
Lubrizol	The Lubrizol Corporation
mg/kg	milligrams per kilogram
MHW	mean high water
MNR	Monitored Natural Recovery
MOA	Memorandum of Agreement
NCP	National Contingency Plan
ng/L	nanograms per liter
NAVD 88	North American Vertical Datum of 1988
NPDES	National Pollutant Discharge Elimination System
NPV	net present value
NRHP	National Register of Historic Places
OMM	operations, monitoring, and maintenance
Oxy	Occidental Chemical Corporation
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzodioxin
PCDF	polychlorinated dibenzofuran
PEL-Q	Probable Effects Level-Quotient
PHA	Port of Houston Authority
PM <sub>2.5</sub>	fine particulate matter
PRG	preliminary remediation goal
PSCR	Preliminary Site Characterization Report
RAO	Remedial Action Objective
RATS	Remedial Alternatives Technology Screening
RCM	Reactive Core Mat
RI	Remedial Investigation
SEM	simultaneously extracted metal
SH	State Highway
Shell	Shell Oil Company, on behalf of Deer Park Refining Limited Partnership and Shell Chemical, LLP
Site	Patrick Bayou Superfund Site

SMA	sediment management area
SOW	Statement of Work
STM	sediment transport model
TBC	To Be Considered
TCEQ	Texas Commission on Environmental Quality
TEF	toxic equivalency factor
TEQ	toxic equivalent
TMDL	Total Maximum Daily Load
TMV	toxicity, mobility, or volume
TOB	top of bank
TPDES	Texas Pollutant Discharge Elimination System
TSWQS	Texas Surface Water Quality Standards
UPL	upper prediction limit
USDL	U.S. Department of Labor
USEPA	U.S. Environmental Protection Agency
WOE	weight-of-evidence
WWTP	Wastewater Treatment Plant

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## 1 INTRODUCTION

This *Feasibility Study Report* (FS) was prepared for the Patrick Bayou Superfund Site (Site) in Deer Park, Texas, (Figure 1-1) on behalf of the Patrick Bayou Joint Defense Group (JDG).<sup>1</sup> The work is being conducted under an Administrative Order on Consent (AOC) and Settlement Agreement dated January 31, 2006. This FS builds upon the final *Remedial Alternatives Technology Screening* report (RATS) submitted on May 31, 2013 (Anchor QEA 2013a), which outlines the general approach of the FS. The RATS also provides additional background information and detailed analysis in support of the FS.

This FS develops and evaluates remedial alternatives for the Site based on the Remedial Action Objectives (RAOs) provided in the RATS and the *Patrick Bayou Remedial Investigation Report* (RI Report; Anchor QEA 2013b) and the results of the *Baseline Human Health Risk Assessment Report* (BHHRA Report; Anchor QEA 2012) and *Baseline Ecological Risk Assessment Report* (BERA Report; Anchor QEA 2013c). This FS was prepared by Anchor QEA, LLC, under the direction of the U.S. Environmental Protection Agency (USEPA) and JDG. This FS was revised to address comments received on the *Draft Interim Final Feasibility Study Report* (Draft Interim Final FS Report; Anchor QEA 2016) from USEPA and Texas Commission on Environmental Quality (TCEQ) and agreements reached between USEPA and the JDG in a meeting conducted on July 20, 2016. See Attachment 1 for related comments, responses, and meeting notes.

Each draft remedial alternative is based on the USEPA-approved adaptive management approach (USEPA 2006). Adaptive management involves making, evaluating, and modifying (if appropriate) decisions in a phased manner so that future actions can be optimized to reflect knowledge that is gained over time. For purposes of this FS, adaptive management would allow remedy(s) to be implemented in stages as their effectiveness in achieving RAOs is evaluated.

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<sup>1</sup> The Patrick Bayou JDG includes the Respondents to the AOC and Settlement Agreement dated January 31, 2006, for the Remedial Investigation/Feasibility Study. The JDG includes The Lubrizol Corporation (Lubrizol), Occidental Chemical Corporation (Oxy), and Shell Oil Company (Shell), on behalf of Deer Park Refining Limited Partnership and Shell Chemical, LLP.

## 1.1 Purpose and Organization of the Report

The purpose of the FS is to describe the development and evaluation of remedial alternatives that will be used in support of the selection of a remedy to address the previously identified RAOs and mitigate potential risks to the environment posed by the Site. This FS was conducted in accordance with USEPA guidance (USEPA 1988).

The remainder of Section 1 provides a summary of the regulatory background for the Site. Section 2 provides a summary of Site information as presented in previous documents prepared and submitted in support of the RI/FS process, including a summary of Site setting and history, the nature and extent of contamination, contaminant fate and transport characteristics at the Site, and the results of the BERA Report (Anchor QEA 2013c) and BHHRA Report (Anchor QEA 2012). The other sections of this FS address the following:

- Section 3 identifies the RAOs and basis for the remedial action
- Section 4 describes the development of each alternative
- Section 5 provides a detailed and comparative analysis of each alternative
- Section 6 provides the comparative evaluation of alternatives and describes the recommended alternative
- Section 7 provides the references
- Appendix A describes chemical fate and transport modeling
- Appendix B describes cap chemical and erosion modeling
- Appendix C provides details on estimated costs for the remedial alternatives
- Appendix D describes the 2014 surface water data collection, including results
- Appendix E describes analytical modeling of natural recovery of polychlorinated biphenyls (PCBs) in surface water
- Appendix F provides an evaluation of institutional controls
- Attachment 1 provides a copy of USEPA and TCEQ comments and JDG responses on the Draft Interim Final FS Report submitted to USEPA in October 2016 and meeting notes of a July 20, 2016, meeting between USEPA and the JDG to discuss the FS

## 1.2 Regulatory Background

Patrick Bayou was proposed for addition to the National Priorities List (*Federal Register* [FR], volume 66, page 32,287) on June 14, 2001, based on ranking developed using the

Hazard Ranking System, which USEPA promulgated as Appendix A of the National Contingency Plan (NCP; *Code of Federal Regulations* [CFR], Title 40 Part 300). The Site listing was finalized on September 5, 2002, (67 FR 56747) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), also known as Superfund. The RI/FS for the Site is required by the AOC and Settlement Agreement with the USEPA dated January 31, 2006, and was developed in accordance with the Statement of Work (SOW) attached to the AOC. The remedial investigation phase has been completed and the RI Report (Anchor QEA 2013b) was approved by USEPA in February 2014. In addition, the RI Report contained the BHHRA Report (Anchor QEA 2012) and BERA Report (Anchor QEA 2013c), which were reviewed and approved separately by USEPA in April 2013 and June 2013, respectively.

Following the RI Report (Anchor QEA 2013b), the RATS Report (Anchor QEA 2013a) was submitted to USEPA and approved in September 2013. This document describes the preliminary screening of potential remedial technologies for the Site and is the first stage in the development of remedial alternatives. The remedial technologies retained for further evaluation were incorporated into the remedial alternatives that are developed and evaluated in the FS presented herein.

Following the RATS Report (Anchor QEA 2013a), the Draft FS Report (Anchor QEA 2014) was prepared to satisfy the requirements of Task 7 in the SOW for the submittal of an FS following receipt of USEPA approval of the RI Report (Anchor QEA 2013b). The Draft FS Report (Anchor QEA 2014) was submitted to address the RAOs identified in the RI Report (Anchor QEA 2013b). These RAOs included addressing the Texas Surface Water Quality Standard (TSWQS) for protection of aquatic life for PCBs, direct sediment toxicity, and risk to wildlife receptors from PCBs. Subsequent to the submittal of the Draft FS Report (Anchor QEA 2014), USEPA, in a letter to the JDG dated July 8, 2015, agreed with the TCEQ that the Site meets the definition of a sustainable fishery under Texas Administrative Code Title 30, Chapter 307, and that “the corresponding water quality standards for PCBs, mercury, and dioxin/furans as TCDD equivalents must be considered in the remedial strategy.” During subsequent discussions, USEPA directed the JDG to lower the PCB surface water RAO to the human health TSWQS or background, if higher. A revised Draft Interim FS Report was submitted to USEPA in October 2016 (Anchor QEA 2016).

Unacceptable adverse risks due to mercury or dioxins were not indicated in either the BHHRA Report (Anchor QEA 2012) or BERA Report (Anchor QEA 2013c) approved by USEPA. However, USEPA is requiring that additional data collection and analysis be performed during a pre-design investigation phase for mercury and polychlorinated dibenzodioxins and polychlorinated dibenzofurans (PCDDs/PCDFs) toxic equivalents (TEQ)<sup>2</sup> due to concentrations in surface water samples from Patrick Bayou that exceed the human health TSWQS for these chemicals. Utilizing the adaptive management framework for the Site, this additional information will provide a basis for establishing Site-specific RAOs; evaluating the potential effect of the preferred alternative selected in the FS on water quality with respect to these chemicals; and, if necessary, identifying additional remedial actions that may be required for the Site. This requirement was addressed in the Draft Interim Final FS Report (Anchor QEA 2016).

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<sup>2</sup> Polychlorinated dibenzodioxins and polychlorinated dibenzofurans (PCDDs/PCDFs) toxic equivalents (TEQs) were calculated using the toxic equivalency factors provided in the 2014 Texas Surface Water Quality Standards (Texas Administrative Code, Title 30, Chapter 307 effective March 6, 2014).



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## 2 BACKGROUND INFORMATION

This section provides a summary of information gathered during the RI Report (Anchor QEA 2013b) concerning physical, chemical, and biological characteristics of the Site as well as sources, nature and extent of contamination, and fate and transport process. This information is intended to provide the reader with an understanding of the Site and the human actions, natural processes, and physical properties that may influence the nature and extent of chemicals of concern (COCs) at the Site and that may influence evaluation of remedial alternatives presented in Sections 4 through 6 of this FS. A comprehensive description of the physical and biological setting for the Site, as well as a more detailed history of the Site, Site uses, the nature and extent of contaminants, and important fate and transport processes, are provided in the RI Report (Anchor QEA 2013b).

### 2.1 Site Location and History

Patrick Bayou is a tributary of the Houston Ship Channel (HSC) in Harris County, Texas, (Figure 1-1) that discharges at the south shore of the HSC approximately 2.3 miles upstream of the HSC confluence with the San Jacinto River. The Site itself and its physical features are described in detail in the *Preliminary Site Characterization Report* (PSCR; Anchor 2006) and the RI Report (Anchor QEA 2013b); a brief summary is provided below.

The Site originates north of State Highway (SH) 225 at the downstream terminus of a set of box culverts that lie underneath the highway and follows Patrick Bayou north approximately 10,200 feet to the HSC (Figure 2-1).<sup>3</sup> The Site itself is bordered by three separate facilities owned by Shell Oil Company, on behalf of Deer Park Refining Limited Partnership and Shell Chemical, LLP (Shell), The Lubrizol Corporation (Lubrizol), and Occidental Chemical Corporation (Oxy; Figure 2-2). The Port of Houston Authority (PHA) is listed as the owner of a parcel of land serving as a railroad corridor leased to and operated by the Port Terminal Railroad Association (PTRA), which crosses Patrick Bayou. Upstream of the Site on the south side of SH 225, Patrick Bayou is largely concrete-lined and serves as a drainage system

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<sup>3</sup> A station numbering system was developed for the Site for consistency and ease of reference throughout this document and associated figures. In this system, station identifiers are named so the last three numbers in the identifier reflect the station's distance from the mouth of Patrick Bayou in hundreds of feet. For example, the upstream boundary of the Site is at Station PB-102 (10,200 feet from the HSC).

for the City of Deer Park. A City-permitted wastewater discharge enters the Site drainage system in this area approximately 75 feet south of SH 225. The East Fork enters the Site approximately midway between SH 225 and the HSC near Station PB-065 and is the only significant tributary of the Site (Figure 2-1). Rohm and Haas Company and Praxair, Inc., have manufacturing operations upstream and adjacent to the East Fork tributary.

In addition to the City-permitted wastewater discharge, an urban developed area is located within the stormwater watershed that drains through Patrick Bayou. This watershed comprises paved surfaces (e.g., roads, parking lots), railroads, commercial/industrial facilities, recreational areas (e.g., athletic fields, golf courses), agricultural/undeveloped areas, and residential areas. Review of readily available information for this area in federal and state databases identified 130 facility registrations and numerous other retail, commercial, and industrial facilities that can potentially discharge chemical and non-chemical stressors to the Site.

Patrick Bayou was named for the original 1838 grantee for the land around the bayou, George M. Patrick (Texas Land Grant Office 2013). Deer Park was developed in 1892 by land promoters hoping for Midwestern farmer settlement (Laird 2008), and a railroad station was soon established nearby. The new community grew, and later experienced a great expansion in the 1940s, when Deer Park became the site for various refineries and toluol (toluene) plants (Kleiner 2013), including those that border the Site. Shell's refinery began operation in 1929 and was the first manufacturer to be based in Deer Park. OxyVinyls, LP, is a subsidiary of Oxy. The OxyVinyls Deer Park facility began operation in 1948. The Lubrizol Deer Park facility has been in operation since 1951.

## **2.2 Aquatic Land Ownership**

The aquatic lands within the Site below mean high water (MHW) are owned by the State of Texas and managed by the Texas General Land Office (GLO). In addition to the GLO, the PHA has a significant role and authority regarding the ownership of submerged land in Harris County, granted by the Texas Constitution (PHA 2011).

## **2.3 Land Use**

Land use data were obtained from the Houston-Galveston Area Council (Merrick 2008). The Site itself is bounded by industrial facilities and a railroad corridor (Figure 2-3). Upstream of the Site's watershed, land use is predominantly residential, commercial, and industrial. According to 2010 census data (U.S. Census Bureau 2010), there are no residences within the Patrick Bayou watershed adjacent to the Site (i.e., north of SH 225). Given the long historical record of heavy industrial use, as well as active industrial operations, adjacent land use is not expected to change in the foreseeable future.

### **2.3.1 Recreational and Navigational Use**

Access to and use of the Site is generally limited to workers authorized by the respective JDG facilities surrounding the Site. Access to the Site by the public is restricted from the uplands by existing engineering controls (e.g., fencing, pipeline barriers) and security/surveillance controls implemented by the industrial facilities along the Site. However, the PTRA rail corridor limits security at the facilities from restricting unauthorized access at this point. PTRA workers and trespassers could potentially access the Site at this location without the JDG's knowledge. As a result, unauthorized access by the public (i.e., trespassers) could potentially occur but is considered unlikely (Anchor QEA 2011a). The JDG has entered the Site into the Texas811 notification system and is in the process of installing signs along the Site providing notification that it is a Superfund Site and access is restricted.

The Captain of the Port of Houston-Galveston has established navigational security zones for certain areas within the Houston and Galveston area, which include the portion of the HSC that Patrick Bayou enters (USCG 2013). Recreational or unauthorized vessels are excluded from these areas, preventing or discouraging access to the Site through the HSC by recreational or unauthorized vessel traffic. Access to the majority of the Site by water is also blocked by the low bridge and pipe crossings near Station PB-012 (or about 1,200 feet from the HSC). Therefore, the Site affords no casual opportunities for recreational use and is unlikely to do so for the foreseeable future.

## 2.4 Ecological Conditions

This section describes the general types and quality of habitat present as they relate to species use of and access to the Site. This information is largely summarized from the detail provided in the RI Report (Anchor QEA 2013b), the BERA Report (Anchor QEA 2013c), the BERA Work Plan (Anchor QEA 2011b), and the PSCR (Anchor 2006).

The Site is bordered by industrial facilities with a developed upland environment. The waterway has been largely channelized and armored, which, when combined with extreme temperature variations, leads to severe limitations in its capacity to provide aquatic ecological functions. However, some areas of the Site are less modified and the waterway is used by several species. The Site provides habitat for bottom-dwelling species (e.g., benthic and epibenthic); foraging and resting opportunities for open-water species (e.g., fish), shorebirds, waterfowl, and other migratory birds; and may also provide foraging or denning opportunities for a variety of small mammalian species that have a higher tolerance for human presence (e.g., raccoons, nutria, rats, and mice).

Natural and human-influenced fluctuations in water flows within the Site influence the species mix inhabiting the waterway. Under typical conditions, Patrick Bayou is a low-gradient tidal stream influenced by daily tides of 1.5 feet or less. Moderate and heavy precipitation events can produce significant flows into Patrick Bayou, resulting in rapid changes in salinity, temperature, dissolved oxygen, velocity, and suspended sediment loads in the waterway in the form of stormwater runoff. Conversely, sustained drought can result in significantly higher salinity and temperature regimes and depressed dissolved oxygen levels. Therefore, while tidal ranges are small, flow characteristics at the Site, as discussed below, heavily influence animals inhabiting the water column and sediment surface. A detailed evaluation of the characteristics of these non-contaminant stressors is included in Appendix E-3 of the BERA Report (Anchor QEA 2013c).

Environmental conditions and bottom substrate conditions significantly influence benthic species that have close associations with sediment and limited home ranges. Studies of the Site evaluating the condition of the benthic community have shown wide variability in benthic species presence and diversity (Anchor 2006) due to widely fluctuating environmental conditions throughout the Site. Thus, while a benthic community that could

potentially provide a base for the food chain may be present, its overall health likely reflects both changes in physical Site conditions and potential impacts to Site sediments.

Specifically, with respect to the benthic community, this FS considers remedial alternatives to address potential risks to benthic invertebrates inhabiting the surficial sediments at the Site. In order to evaluate the overall appropriateness and efficacy of alternative remedial measures on this community, it is important to consider the nature of this community in the context of the degree to which non-contaminant characteristics affect the composition and stability of the benthic invertebrate community and the degree to which this community will respond to exposure to contaminants.

As discussed in detail in Appendices E-3 and E-4 of the BERA Report (Anchor QEA 2013c), the Site is characterized as a mesohaline system with a salinity gradient between the downstream and upstream limits of the Site as a result of stormwater runoff, upstream flow, and tidal effects. The infaunal macroinvertebrates collected in 2000 and 2001 as part of the Total Maximum Daily Load (TMDL) investigations performed at the Site reflect this gradient, and the benthic index developed as part of the BERA Report (see Appendix E-4; Anchor QEA 2013c) explicitly considered salinity as a determinant of the composition of the benthic community. It is also important to note that, consistent with Gulf of Mexico sites, the benthic community found at the Site tends to be concentrated in the shallowest portion of the sediment column (the upper 1 to 2 centimeters (cm) below the mudline), compared to more northern estuaries (see references in Section 1.1 of Appendix E-3 of the BERA Report; Anchor QEA 2013c).

Fish and shellfish are found in Patrick Bayou in various natural or modified aquatic zones and generally include species adapted to shallow water conditions. In addition, fish distribution and abundance is associated with the availability of appropriate prey items, temperature, and salinity regime as required for different species. Shellfish, such as juvenile blue crab<sup>4</sup> and shrimp, are generally found at the relatively higher salinity zone near the HSC and are not found in significant numbers in upstream areas of the Site (generally upstream of

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<sup>4</sup> Adult blue crab, which can tolerate a higher range of salinity, can be found farther upstream (near the concrete-lined channel) than juvenile blue crab under the same conditions.

the East Fork Tributary). The steep gradient and larger grain-size materials (gravels and cobbles) in the concrete-lined channel (also referred to as the “gunite-lined” channel in other documents) also significantly limit the potential for benthic habitat in upstream areas. Given the small size of the Site, wider-foraging or migratory fish would not be expected to spend significant time within the Site but may occasionally forage within Patrick Bayou.

Wildlife habitat at the Site consists of less modified areas of bank and riparian zones of the downstream portions. Riparian conditions range from maintained turf grass to shrub/scrub with sparse tree cover. Natural banks are generally low and gradually sloping, while banks that have been armored are steep and high. Emergent aquatic vegetation is largely absent from the Site. Given the industrial nature of the upland habitat, lack of riparian cover, and modified nature of the shoreline, habitat to support terrestrial mammals is limited. Thus, species that may be present (or have been observed) would include those with limited ranges and urban-adapted characteristics such as raccoon, muskrat, nutria, mice, and rats.

## **2.5 Physical Description**

The following section presents a physical description of the site, including bathymetry and topography, structures, waterway hydrodynamics, and streambed characteristics.

### **2.5.1 Bathymetry and Topography**

A bank-to-bank bathymetric survey was conducted in 2005 by Gahagan and Bryant Associates, Inc., for the Site and areas immediately upstream (south of SH 225) and downstream (within the proximal portions of the HSC). The upstream and upper portion of the Site (from the Deer Park Wastewater Treatment Plant [WWTP] outfall to the end of the concrete-lined channel) has a significantly higher hydraulic gradient (about 10 feet of elevation change over 5,000 linear feet) when compared to the middle and lower portions of the Site (less than 1 foot of elevation change over 8,000 linear feet).

The channel base elevation between Stations PB-037 and PB-080 (the downstream limit of the concrete-lined channel) generally is not deeper than -3 feet referenced to the North American Vertical Datum of 1988 (NAVD 88). Bank slopes in this area are relatively flat, and transitions between the channel and shoal/deposition areas are poorly defined.

Downstream of Station PB-037 to Station PB-028, the bank slopes are steepened slightly, with channel elevations reaching -6 feet NAVD 88. The channel widens downstream of Station PB-028 prior to its intersection with the HSC, and areas of shoaling/deposition and channel flow are more clearly defined. Near the two small islands in the lower portion of the Site (PB-017), the primary channel alignment is offset toward the east bank and transitions to the west bank of the Site. Channel elevations between PB-028 and PB-017 range between -2 and -4 feet NAVD 88. Downstream of PB-017, channel elevations generally reach between -4 and -6 feet NAVD 88. The bottom elevation at the Site boundary ranges between -6 and -8 feet NAVD 88.

Stream bank heights in areas with bulkheads and riprap are generally steep with top of bank (TOB) elevations exceeding 9 feet NAVD 88. Areas without bank modifications, which include much of the middle section of the Site, typically have low, sloping banks with bank elevations less than 6 feet NAVD 88. Bank cover in areas without riprap or bulkheads is generally mowed grass with some low shrubs and bare earth. In many areas, industrial facilities and impervious surfaces, such as parking lots and roads, are located adjacent to the banks of the Site.

### **2.5.2 Adjacent Facilities, Infrastructure, and Waterway Structures**

Several fixed structures cross the Site as described in the RATS. A bridge crosses Patrick Bayou from the OxyVinyls facility to a ship offloading area along the channel near the confluence with the HSC. A bridge partially crosses the Site at Station PB-057 (approximate) between the Shell and OxyVinyls facilities, and an overhead, pile supported pipe rack is present approximately 300 feet upstream of this location. There are several overhead pipe racks, a vehicle bridge, and the PTRR railroad that cross the Site at Stations PB-079 to PB-080.5 (approximate). Additional overhead pipe racks cross the Site at about Station PB-095. Outfalls are present at several locations along the banks of Patrick Bayou. All of these structures physically limit access to the Site by water vessel from the HSC. The channel has concrete lined slopes between Station PB-081 and the upstream end of the Site (Station PB-102).

In addition to the multiple bridge and utility crossings, there are many shoreline structures (e.g., catwalks, sheetpile walls) along the banks of the Site. Overall access to the Site is restricted by the adjacent structures and surrounding facility security systems. The effects of these restrictions are significant and must be considered during remedial design planning.

### **2.5.3 Waterway Hydrodynamics**

Water depths in the Site boundary range from shallow inter-tidal zones (less than 1 foot) to 8 feet at the confluence with the HSC. The Site's open-water system is characteristic of bayous of the coastal Gulf of Mexico, consisting of a tidally influenced secondary stream with sluggish flow during typical conditions. Tides in the HSC are generally weak and exhibit semidiurnal and diurnal components. However, winds and ship traffic within the HSC often disrupt the astronomical tidal cycles and may dominate short-term circulation patterns. Normal tidal ranges (the elevation difference between mean low water and MHW) in the HSC are typically less than 1.5 feet; the mean tidal range of the HSC near Patrick Bayou is 1.2 feet (NOAA 2006). The tidal range at the Site is also affected by flow and wind. During low-flow and wind-driven low tide conditions, the intertidal zone may become dewatered for extended periods (e.g., several days), which is a stressor to the benthic community. Base-flow discharges for the main channel range from about 1 to 100 cubic feet per second (cfs), with an average value of 28 cfs. For the East Fork, base-flow discharge is 2 cfs on average, with a range of about 0.1 to 10 cfs (Anchor QEA 2011c).

### **2.5.4 Streambed Characteristics and Sediment Transport**

A detailed evaluation and analysis of the streambed and sediment transport processes within the Site was presented in the RI Report (Anchor QEA 2013b) and the *Sediment Transport Modeling Report* (STM Report; Anchor QEA 2011c).

The nature of the sediment bed affects sediment transport processes, as well as chemical distributions. The sediment bed within the Site is separated into two distinct types:

- Cohesive (i.e., muddy bed composed of a mixture of clay, silt, sand, and organic matter)
- Non-cohesive (i.e., sandy bed composed of sand and gravel, with small amounts of clay and silt)



Sediment samples indicate that the bed is primarily composed of cohesive sediment, with non-cohesive sediment occurring in isolated, localized areas at the Site. For similarly sized materials, cohesive sediments are typically more resistant to erosion than non-cohesive sediments. Erosion rate data of sediment collected at the Site indicate that sediments downstream of approximately PB-040 tend to have significantly less erodibility with increasing depth in the bed due to consolidation; sediments upstream of approximately PB-040 tend to exhibit variable erodibility in the vertical direction. A description of the erosion rate parameters and analysis can be found in Appendix B of the STM Report (Anchor QEA 2011c). The primary sources of sediment to the Site are loading from main inflow, the East Fork Tributary, and direct runoff.

The stability of the sediment bed is an important factor for considering natural recovery processes and to evaluate remedial alternatives for sediments that might exceed the identified RAOs (discussed in Section 3.2) for the Site. The results of the sediment transport model (STM) analyses were used to develop the following conceptual model for sediment transport at the Site:

- The Site is a net depositional area over annual time scales, with approximately 55 to 60 percent of the sediment load entering the Site from the surrounding watershed being deposited within the Site.
- Net sedimentation rates are spatially variable, with values ranging from less than 0.1 cm per year to more than 2 cm per year.
- Bed erosion is typically an episodic process that is most pronounced during high-flow events. During the 100-year high-flow event (i.e., event with 1 percent chance of occurring in a given year), net erosion occurs in approximately 65 percent of the total bed area and the majority of the net erosion is less than 6 cm. During the 2-year high-flow event (i.e., event with 50 percent chance of occurring in a given year), net erosion occurs in about 45 percent of the total bed area and erosion depths are less than 2 cm. Generally, erosion at the Site, even during low frequency, high-flow events, only affects surface-layer sediments and is limited to bed depths that represent relatively recent deposition.
- Results from natural recovery modeling based on simulation of sediment transport processes indicate that for about 70 percent of the Site, the chemical concentrations in the mixing-zone layer (top 10 cm of sediment; Anchor QEA 2009) will decrease by

one-half of their current concentrations in less than 10 years, assuming “clean” sediment input (Anchor QEA 2011c). Note that this estimation assumes an average chemical concentration over the entire 10 cm thickness of sediments and does not discretize concentrations within individual (e.g., shallower) layers. Future evaluations will consider PCB concentrations in discrete depth zones to better evaluate Monitored Natural Recovery (MNR) in critical horizons.

### **2.5.5 Upstream Stormwater Detention Basin**

To improve the floodplain storage volume in the Patrick Bayou system, the City of Deer Park and the Harris County Flood Control District jointly purchased approximately 35 acres of undeveloped property located south of SH 225, west of East Boulevard and east of Deer Park Gardens Section Two (upstream of the Site), to construct a stormwater detention basin.

The detention basin is intended to alleviate flooding on Patrick Bayou during a significant rain event (i.e., 100-year storm event). The basin creates a backwater condition to direct higher stage flows into the detention basin rather than continue down the channel, but allows the lower stage flows to pass through a 6-foot-by-5-foot box culvert. As the basin fills, the head across the weir gets smaller until it is equal to the channel. In this case, the basin is full after the peak of the hydrograph has passed. As the surface water elevation in Patrick Bayou recedes following the high flow event, water will flow out of the detention basin and back into the channel across the weir.

The detention basin is expected to reduce the peak flow rate into Patrick Bayou during the 100-year flood by about 10 percent. In addition, the detention basin would only affect flow into Patrick Bayou during floods with return periods of about 10 years or greater. For floods with return periods of 10 years or more, the reduced inflow rates to Patrick Bayou (i.e., 10 percent decrease for 100-year flood) would produce lower current velocities than present conditions and, thus, less sediment bed erosion. It is anticipated that the detention basin would have a minor effect on sediment loads to Patrick Bayou, which would correspond to relatively minor changes in long-term sedimentation rates in Patrick Bayou. Refinement of the STM is anticipated to account for this change in the pre-design phase of the project, if warranted.

Appendix A provides additional discussion regarding the upstream stormwater detention basin and how the basin was evaluated in the chemical fate and transport modeling.

### **2.5.6 Port Terminal Railroad Association Bridge Improvements**

In 2015, the PTRRA completed a project to replace the existing wooden trestle railroad crossing near Station PB-080 with a series of 14-foot diameter, parallel concrete circular culverts. The JDG understands that these culverts were designed and sized in a manner that will not restrict flow in Patrick Bayou.

During development of the FS, the new bridge configuration was reviewed to evaluate whether it could represent a material change to the hydrodynamic model input assumptions, which would indicate that the model should be updated. Based on the relatively small scale change represented by the new bridge configuration within the domain of the hydrodynamic model (i.e., the length of a grid cell is wider than the bridge itself; Appendix A), and because the culverts have been designed and sized so as to not affect flow in the Patrick Bayou, it was determined that modifications to the hydrodynamic model were not necessary.

## **2.6 Nature and Extent of Contamination**

### **2.6.1 Contaminant Sources**

In the RI Report (Anchor QEA 2013b), extensive effort was expended to evaluate numerous potential sources of contamination to the Site, including point sources, groundwater, spills, bank erosion, atmospheric deposition, and interaction with the HSC. In general, the RI Report (Anchor QEA 2013b) findings are consistent with the conceptual site model of legacy contamination, and no ongoing sources of contamination to sediments were identified.

Four outfalls currently discharge just upstream of the Site: City of Deer Park WWTP outfall, Lubrizol outfall 001, and two stormwater-only outfalls (Lubrizol outfalls 002 and 006).

Three other outfalls currently discharge directly into the East Fork Tributary: Praxair outfall 001, Rohm and Haas outfall 003 (stormwater), and Lubrizol outfall 007 (stormwater).

Within the concrete-lined channel, seven outfalls currently discharge stormwater, treated domestic wastewater, and/or utility wastewater. Downstream of the concrete-lined channel, six outfalls (four Shell and two Oxy) currently discharge stormwater, non-process

wastewater, fire water, and/or non-contact cooling water withdrawn from the HSC. Currently, there are no known active point-source discharges that add contaminants to the Site above National Pollutant Discharge Elimination System (NPDES) discharge limits or above typical urban background loading. Thus, current direct discharge to the Site from permitted outfalls is not considered a substantive source of contaminants to the Site. Outfalls are shown on Figure 2-2.

Currently, groundwater from each facility has very little measurable interaction with the Site and does not contribute to chemicals of potential concern (COPCs) observed in Site sediments and surface water, as discussed in the RI Report (Anchor QEA 2013b). Historically, contaminated groundwater may have entered the Site via discharge through sediments or bank seeps. While deeper groundwater bearing zones (i.e., below the Beaumont Formation) are not hydraulically connected to the Site, shallow groundwater bearing zones have some connection to the Site. Releases of chemicals to upland soils may have resulted in migration of these chemicals to groundwater, which subsequently migrated to the Site.

There is no historical record of spills prior to 1958. Historical spills are potential sources of chemicals at the Site. A review of spill reports maintained by the Texas Parks and Wildlife Department from 1958 to 2005 (Denton 2006) revealed no documented spills at the Site during that time. Numerous spills have occurred in the HSC adjacent to the Site. Spills in the HSC could potentially travel via surface water into the Site.

Potentially, soils or fill containing chemicals could erode from unprotected banks of the Site and enter surface water or sediments. However, much of the shoreline has been modified by placement of fill and/or concrete armor over time. The sources and quality of the fill materials is unknown. Currently, much of the Site banks are covered with bank stabilization materials, which inhibit erosion. Unstabilized areas generally have natural cover as well to inhibit erosion; there are few, if any, significant areas of bare soil adjacent to the Site. Thus, there are no known current sources of contaminants loading associated with bank erosion for the Site.

Nearly all surface waterbodies are exposed to potential deposition of chemicals in the atmosphere. Chemicals deposited to surface waters of the Site may come from local and regional point and non-point sources. Chemicals deposited to surface water may become dissolved in surface water, adsorbed to particulates in surface water, or may adsorb to sediments. Polycyclic aromatic hydrocarbons (PAHs), PCBs, mercury, and PCDDs/PCDFs are common atmospheric pollutants in urbanized environments and are expected to represent both current and ongoing sources of contamination to the Site, although at very low levels.

The HSC is known to be impacted from sources other than the Site by several contaminants, including PAHs, PCBs, PCDDs/PCDFs, pesticides, and mercury. The Site is tidally influenced, and the tidal fluctuation produces an exchange of surface water between Patrick Bayou and HSC within the Site. Chemicals released, historically and currently, into the HSC may migrate into the Site as a result.

### **2.6.2 Distribution of Indicator Chemicals**

The RI Report (Anchor QEA 2013b) identified four indicator chemicals (ICs) from the list of COCs that were the basis for the nature and extent evaluation. PCBs were selected as the primary IC based on potential risk to wildlife and benthic invertebrates (i.e., benthos). PAHs, lead, and bis(2-ethylhexyl) phthalate (BEHP) were selected as secondary ICs based on some potential risk to benthos. The ICs selected in the RI Report (Anchor QEA 2013b) were media-specific and were based on the results of the BERA Report (Anchor QEA 2013b, 2013c) and to a lesser extent on non risk-based factors. These four ICs and their rationale for selection for each media are discussed in the RI Report (Anchor QEA 2013b).

Following submittal of the Draft FS Report (Anchor QEA 2014) and upon subsequent discussions with the JDG, the USEPA required the evaluation of mercury and PCDD/PCDFs under the human health TSWQS Applicable or Relevant and Appropriate Requirement (ARAR). To address this requirement, mercury and PCDD/PCDF nature and extent are summarized below for sediment and porewater based on their potential as source media for surface water. The PCDD/PCDF results are expressed as 2,3,7,8-tetrachlorodibenzo-p-dioxin

(TCDD) TEQs calculated using toxic equivalency factors (TEFs) listed in the Texas Administrative Code, Title 30, Chapter 307 (i.e., TSWQS) effective March 6, 2014.

The following sections summarize the nature and extent of ICs, mercury, and PCDD/PCDF TEQ in Site media.

### *2.6.2.1 Surface Sediment*

Surface sediment samples from 66 locations within in Site were collected representing the interval from the surface up to a depth of 11 cm below the surface (Anchor QEA 2013b).<sup>5</sup> Samples from 14 stations were collected in 2006, 46 stations in 2009, and 6 stations in 2011. All four ICs, mercury, and PCDD/PCDF congeners were included in 2006 and 2009 sediment sample analyses. The 2011 samples were analyzed for PCB Aroclors and PAHs because those are the primary ICs in the upstream area that was the focus of that investigation. Results for surface sediment ICs, mercury, and PCDD/PCDF TEQ are mapped on Figures 2-4 through 2-9 (PCBs, PAHs, BEHP, lead, PCDD/PCDF TEQ, and mercury, respectively). The highest concentrations of total PCB congeners and PCDD/PCDF TEQ were near the downstream end of the Site at Station PB-026; however, total PCB congener concentrations are also elevated at a few station locations between Stations PB-047 and PB-069. Maximum concentrations of BEHP and mercury were further upstream at Stations PB-036 and PB-053A, respectively. Although the maximum lead concentration was observed at PB-081, it demonstrated a generally increasing trend in concentration in the downstream direction. Lastly, the maximum concentration of total PAHs was located near the upstream end of the Site at Station PB-081 and generally decreased in the downstream direction.

In addition, several surface sediment samples were collected upstream of the Site boundary and were analyzed for PCBs, PAHs, lead, PCDD/PCDF TEQ, and mercury. Sample locations are shown on Figure 2-10. In general, upstream concentrations of ICs, mercury, and PCDD/PCDF TEQ are less than or within the range of values observed in Site surface sediments. To the extent that upstream concentrations of ICs, mercury, and PCDD/PCDF

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<sup>5</sup> Several samples have been collected during the RI at shallower intervals (e.g., 0 to 2 cm). Results from these shallow surface intervals are not discussed here. Results for these shallow intervals can be found in Anchor (2007).

TEQ are similar to those in certain areas of the Site, this will limit the reduction in concentration that can be achieved in these areas through natural recovery.

### 2.6.2.2 *Subsurface Sediment*

Subsurface samples, defined as samples collected from depth intervals greater than 11 cm, were collected at 12 locations (Figure 2-11). All samples were analyzed for all sediment ICs, mercury, and PCDD/PCDF TEQs. The distribution of total PCBs,<sup>6</sup> total PAHs, BEHP, lead, PCDD/PCDF TEQ, and mercury are shown on Figures 2-12 through Figure 2-17. In general, ICs, mercury, and PCDD/PCDF TEQs show increasing concentration with depth, with subsurface maximum concentrations generally found between 50 and 120 cm below mudline. The stations generally exhibiting the highest subsurface concentrations of total PCBs, total PAHs, and lead were PB-042, PB-048, and PB-057. Maximum PCDD/PCDF TEQ values were reported at Stations PB-022 and PB-042. The stations exhibiting the highest subsurface concentrations of mercury were PB-022, PB-048, and PB-057. With few exceptions, the lowest concentrations of ICs, mercury, and PCDD/PCDF TEQs were observed in sample intervals near the contact with the native regional clay formation (i.e., Beaumont Formation).

The vertical profiles of PCBs in Patrick Bayou show changes at the Site in terms of ongoing reduction of surface sediment concentrations. The vertical profiles of PAHs, BEHP, PCDD/PCDF TEQ, and mercury show that the concentrations of these chemicals at the surface (and thus available to potential surface receptors) have also significantly declined over time since the peak of contaminant loading (Figures 2-12 through 2-17; Anchor 2007). Although the peak concentration varies by chemical and location, the vertical profiling and associated radiometric analyses conducted in 2006 indicate that most loading for these chemicals occurred more than 30 years ago (92 cm and deeper; Anchor 2007). These observations indicate the following:

- Historical or legacy discharges are responsible for the bulk of the concentrations of chemicals observed at the Site, and

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<sup>6</sup> Only PCB Aroclors were analyzed in subsurface sediments.

- Natural attenuation should continue to lower potential risk to surface receptors at the Site from these chemicals

### 2.6.2.3 Porewater

As part of the remedial investigation, porewater was collected from ten locations within the Site boundary (Anchor QEA 2013b). Figures 2-18, 2-19, and 2-20 present the results for total PCB congeners, total PAHs, and BEHP by location, respectively.<sup>7</sup> Lead was not detected in any of the porewater samples. Station PB-036 had the highest concentration of all three detected ICs, while PB-006A had the lowest concentration of all three detected ICs.

Porewater concentrations provided site-specific information on chemical partitioning within the sediments (see Appendix A).

#### 2.6.2.3.1 Mercury Speciation in Porewater

Mercury in aquatic systems occurs in two general forms, organic and inorganic. Organic mercury is primarily present as methylmercury (CH<sub>3</sub>Hg<sup>+</sup>). Methylmercury occurs as an aqueous species and can be adsorbed on to sediment organic carbon through equilibrium partitioning processes. It is the most prevalent and most biochemically active form of organic mercury in sediments. Relative to inorganic forms of mercury, methylmercury is significantly more toxic (Wolfe et al. 1998). Because methylmercury occurs as an aqueous species, actual porewater measurements versus bulk sediment measurements provide more accurate and conservative estimates of the methylation potential, location, and bioavailability.

Understanding the partitioning of mercury between inorganic and organic forms on a Site-specific basis provides important information to assess impacts to aquatic systems and water quality compared to measures of total mercury. If the fraction of methylmercury relative to total mercury is low, the probability of mercury entering the aquatic food chain is likely to be lower and bioaccumulation in edible fish tissue less prevalent than would be indicated based on measures of total mercury.

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<sup>7</sup> PCDD and PCDF congeners were not identified as contaminants of potential concern in porewater and were not included in the target analyte list for the investigation.



Vertical profiling of mercury speciation in porewater was performed at ten locations within the Site boundary in 2008 (Anchor QEA 2013b). Sediment was collected in 2-cm intervals from the top 20 cm of sediment. One hundred porewater samples were submitted for total mercury, methylmercury, and alkylatable ionic mercury (weakly complexed mercury) analyses.<sup>8</sup>

Figure 2-21 presents the vertical profiles of porewater results of the mercury speciation analysis at each station. Total mercury was detected in porewater in all 100 samples. The maximum detected concentrations of total mercury, methylmercury, and mercury sulfide were observed at PB-036. The maximum detected concentration of weakly complexed mercury was observed at PB-053. A distinct vertical gradient of increasing total mercury, weakly complexed mercury, and mercury sulfide in porewater with depth was observed.

Concentrations of methylmercury showed little variation with depth at a particular location. The proportion of methylmercury was low relative to total mercury concentrations. Out of 100 samples, 84 samples had methylmercury concentrations less than 5 percent (by weight) of the total mercury in the sample.

This analysis indicates that the rate of mercury methylation in Patrick Bayou sediments is low and, as a result, severely limits the bioavailability of mercury to aquatic receptors and exposure to higher trophic-level receptors through bioaccumulation pathways. The conclusions in the BERA Report (Anchor QEA 2013c) and BHHRA Report (Anchor QEA 2012) support this analysis—mercury was not identified as a Site COC due to risk to human health or ecological receptors at the Site.<sup>9</sup>

Further evaluation of mercury, including the effect of low methylation rates on water quality, will be an important consideration in pre-design investigations. There is evidence, based on the analysis of mercury speciation in porewater for the Site, that measures of total

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<sup>8</sup> Results for mercury sulfide were calculated based on the difference between total mercury and methylmercury plus weakly complexed mercury.

<sup>9</sup> The approved *Baseline Human Health Risk Assessment Work Plan* (Anchor QEA 2011a) included a spatial analysis of Texas Department of State Health Services fish advisory tissue data. This USEPA-approved analysis concluded that the Site is not an incrementally significant source of mercury to fish in the HSC, and therefore, mercury was eliminated as a chemical of potential concern with respect to the fish consumption pathway.

mercury in porewater and potentially surface water (i.e., TSWQS) are conservatively biased measures of potential impacts to human health.

#### 2.6.2.4 *Surface Water*

Surface water was collected during three sampling events (Figure 2-22). Twenty-two samples were collected from eight stations from outside and within the Site boundary in 2009. These surface water samples were analyzed for several target analytes, including PCB congeners, mercury, and PCDDs/PCDFs. In 2011, four samples were collected from within the Site boundary between Stations PB-070 and PB-101. In 2014, a total of 23 samples were collected from 21 stations located both outside and within the Site boundary (Appendix D). In 2011 and 2014, PCBs were the only COC<sup>10</sup> included in the surface water sample chemical analysis.

Total PCBs were detected in all samples for the 2009, 2011, and 2014 sampling events (Figure 2-23). For the 2009 sampling event, the highest concentration of total PCBs (431 ng/L) was reported at Station PB-059A. For the 2011 sampling event, the highest concentration of total PCB congeners was reported at Station PB-080 (143 ng/L); the farthest upstream station, Station PB-101C, had the lowest total PCB congener concentration (5.65 ng/L). The highest concentration of total PCB congeners reported during the 2014 sampling event was from the sample collected at Station PB-070B (72 ng/L); the farthest upstream station, Station PB-119B, had the lowest total PCB congener concentration (0.566 ng/L). As shown on Figure 2-23, in general, surface water concentrations of PCBs have declined over time.

The 22 surface water samples collected in 2009 were analyzed for PCDD/PCDFs. Seven of the 17 PCDD/PCDF congeners were not detected in any of the samples. Only four PCDD/PCDFs were detected in more than 50 percent of the samples. PCDD/PCDF TEQ was calculated for all the surface water samples. Results ranged from 0.00000969 ng/L to 0.00270 ng/L. However, these results may be biased high due to the proportion of

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<sup>10</sup> Not including conventional analytes such as organic carbon or total suspended solids.

non-detects included at one-half the reporting limit, per the summation rules.<sup>11</sup> The maximum value was reported at Station PB-031 (Figure 2-24). The lowest PCDD/PCDF TEQ values were reported in the samples located in the upper portion of the Site. The 2009 surface water samples were also analyzed for total and dissolved mercury. Dissolved mercury was detected in only one sample collected at Station PB-006 (0.0051 micrograms per liter [ $\mu\text{g/L}$ ]). Total mercury was detected in 19 of the 22 samples. Total mercury concentrations ranged from 0.0056  $\mu\text{g/L}$  (HSC-14) to 0.24  $\mu\text{g/L}$  (Station PB-006; Figure 2-25). Surface water samples collected at HSC-14 had the lowest mercury concentrations. As shown on Figure 2-25, there is generally a decreasing trend in total mercury concentrations moving upstream at the Site.

#### 2.6.2.4.1 Background Conditions in the Houston Ship Channel

The background concentration for total PCBs and PCDD/PCDF TEQ was derived through an analysis of PCB and PCDD/PCDF congener data in the HSC measured as part of the PCB and Dioxin TMDL studies (Rifai 2006; Rifai and Palacheck 2006, 2007, 2008, 2009, 2010). These data can be used to assess background conditions for Patrick Bayou due to tidal exchange that occurs between Patrick Bayou and the HSC.

Consistent with comments received from TCEQ (2016), data from Segments 1006 and 1007 were included in the background dataset (Table 2-1). The dissolved and particulate fractions measured in the TMDL studies were summed to calculate total PCBs and PCDD/PCDF TEQ in surface water at locations in the HSC. For total PCBs, the average concentration in surface water is 3.7 ng/L, with a range of 0.44 to 12.5 ng/L (Figure 2-26; Table 2-2). For PCDD/PCDF TEQ, the average concentration is 0.00051 ng/L, with a range of 0.00009 to 0.0018 ng/L (Figure 2-27; Table 2-2).

A background threshold value (BTV) based on an upper limit estimator was established to assist in assessing the attainability of the TSWQS due to water quality conditions in the HSC. Using the 95 percent upper prediction limit (95UPL) as the preferred point estimate for a

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<sup>11</sup> The detection limits for PCDD/PCDF congeners in surface water were based on data quality objectives set to meet the TSWQS for aquatic life and not human health, which was set as a tissue-based criteria at the time of sampling.

BTV (TCEQ 2016), the result for background total PCBs is 8.2 ng/L.<sup>12</sup> For PCDD/PCDF TEQ, the BTV based on the 95UPL is 1.2E-3 ng/L.<sup>13</sup> These BTVs are higher than the TSWQS human health “fish only” criteria for PCBs and PCDD/PCDF TEQ, which are 0.64 and 7.97E-5 ng/L, respectively.

### 2.6.2.5 Tissue

Hazard quotients (HQ) at or above one (1.0) were calculated in the BERA Report (Anchor QEA 2013c) for piscivorous (HQ = 1.7) and shorebird populations (HQ = 1.0) due to PCBs in potential prey tissue. No tissue COCs were identified in the BHHRA Report (Anchor QEA 2012). Therefore, the nature and extent summary below is limited to whole body tissue data used in the BERA Report (Anchor QEA 2013c) and focuses on PCBs expressed as 2,3,7,8-TCDD TEQs using avian ( $TEQ_{avian}$ ) TEFs. A full discussion of all biota data can be found in the RI Report (Anchor QEA 2013b).

A total of 83 whole body tissue samples from locations within the Site were analyzed as part of the BERA investigation (Anchor QEA 2013c). These included 33 shellfish samples and 50 fish samples. Four different shellfish species were collected and analyzed. These included blue crab, brown shrimp, oyster, and white shrimp. Shellfish were analyzed in two different size classes. Five different fish species were collected and analyzed. These included Gulf killifish, Gulf menhaden, pinfish, sand seatrout, and striped mullet.

For shellfish, the highest PCB TEQ for avian predators was reported in blue crab samples (782.9 [ $TEQ_{avian}$ ] ng/kg). The average concentration in blue crab samples was 380 PCB  $TEQ_{avian}$  ng/kg. Spatial representation for shellfish PCB  $TEQ_{avian}$  results are depicted in scatterplots and maps on Figure 2-28. In general, the highest total PCB  $TEQ_{avian}$  values for shellfish were observed between 2,000 and 8,000 feet from the HSC (i.e., PB-020 to PB-080).

In whole body fish tissue, the concentration of PCB  $TEQ_{avian}$  values ranged between 77.5  $TEQ_{avian}$  ng/kg and 1,173  $TEQ_{avian}$  ng/kg. The highest PCB  $TEQ_{avian}$  value was reported in

<sup>12</sup> Calculated using ProUCL Version 5.0 (<http://www.epa.gov/osp/hstl/tsc/software.htm>). The 95UPL is based on the 95 percent Wilson–Hilferty Approximation Gamma UPL.

<sup>13</sup> Calculated using ProUCL Version 5.0 (<http://www.epa.gov/osp/hstl/tsc/software.htm>). The 95UPL is based on the normal 95UPL.

Gulf killifish samples (1,173 [TEQ<sub>avian</sub>] ng/kg). To depict potential spatial relationships of concentrations along the Site PCB TEQ<sub>avian</sub> results were graphed with scatterplots showing results values versus distance from the mouth of the Site at its confluence with the HSC. For Gulf killifish, as shown on Figure 2-29, a general cluster of higher PCB TEQ<sub>avian</sub> values is apparent near stations PB-050 to PB-070 as opposed to either the mouth or the upstream end of the Site. Spatial representation for menhaden PCB TEQ<sub>avian</sub> results is depicted on Figure 2-30. In contrast to Gulf killifish, a general trend of increasing concentration is apparent from the mouth of the Site to station PB-058. Spatial representation for pinfish, sand seatrout, and striped mullet PCB TEQ<sub>avian</sub> results, is depicted on Figure 2-31. The data in these figures show a slight trend of increasing concentrations of PCB result values and TEQs is visible from the mouth of the Site toward the upstream portions of the Site.

#### 2.6.2.6 Mean Probable Effects Level Quotient

In the BERA Report (Anchor QEA 2013c), several different quotient or toxic unit models that have been described in the scientific literature to predict potential sediment toxicity based on bulk sediment chemistry were evaluated. The performance of each model was assessed by applying it to Site-specific, co-located bulk sediment chemistry data and bioassay (i.e., toxicity) data for the Site. Of the models assessed, a mean quotient model using the Probable Effects Level (Long et al. 2006) was initially selected based on several performance criteria identified in the BERA Work Plan (Anchor QEA 2011a). This model, referred to as the mean Probable Effects Level-Quotient (PEL-Q), was refined using a series of optimization steps developed in the approved BERA Report (Anchor QEA 2013c). This optimized model included four COPCs (total PCBs, total PAHs, lead, and BEHP) that demonstrated a statistically significant difference in concentration between toxic and nontoxic samples. Of the four COPCs, total PCBs presented the dominant contribution to the calculated mean PEL-Q (Anchor QEA 2013c). This mean PEL-Q metric was then used as one of three lines of evidence (LOEs) within a weight-of-evidence (WOE) framework in the BERA Report (Anchor QEA 2013c) to characterize risk to the benthic community.

Surface bulk sediment samples were used to describe the nature and extent of the distribution of these four COPCs using the mean PEL-Q. All surface sediment samples that included all four COPCs were included in the dataset for the RI Report (Anchor QEA

2013b). Surface sediment samples from 66 locations within the Site were collected from 0 to up to 11 cm. Samples from 14 stations were collected in 2006, 46 stations in 2009, and 6 stations in 2011. All four COPCs were included in 2006 and 2009 sediment sample analyses. The 2011 sampling event included only PCBs and PAHs; thus, a mean PEL-Q was not calculated for those locations. As a result, a total of 60 locations were included in the calculation of Mean PEL-Q in the RI Report (Anchor QEA 2013b). Surface sediment mean PEL-Q values are mapped on Figure 2-32. In general, the highest mean PEL-Q values were reported at Stations PB-026, PB-032, and PB-053A. The maximum mean PEL-Q value, 166.5, was reported at Station PB-026.

### **2.6.3 Chemical Characteristics of Indicator Chemicals**

The degree to which the ICs, mercury, and PCDD/PCDF congeners move from sediment to water and become bioavailable is affected by their solubility in water, their tendency to adsorb to sediment particles, and the rate at which they degrade in the environment. The parameters used to characterize these properties are the water solubility, partition coefficient, and biodegradation rate of each chemical. PCBs, lead, and PCDD/PCDF congeners (described in Section 2.6.2) do not volatilize to a significant degree, so properties related to volatilization (primarily Henry's Law constant) are not discussed further. Low molecular weight PAHs (e.g., naphthalene), BEHP, and mercury are more volatile in some environmental settings but under the conditions at the Site, volatilization is not expected to be a significant fate or transport mechanism for these chemicals. Table 2-3 presents a summary of the chemical properties for the ICs, mercury, and PCDD/PCDF congeners.

Chemicals with lower water solubility and higher partition coefficients have less potential to enter the aqueous phase and become mobile. Chemicals that are strongly adsorbed to the sediment may be transported with sediment if the sediment is resuspended by high surface water velocities and can also be exchanged between sediment porewater and surface water. The following subsections describe the relevant chemical properties of the ICs, mercury, and PCDD/PCDF congeners.

### 2.6.3.1 *Polychlorinated Biphenyls*

In general, PCBs are less soluble in water and adsorb more strongly to sediment than the other ICs but are similar in this respect to PCDD/PCDF congeners. Although these properties make PCBs less bioavailable than the other ICs, PCBs tend to bioaccumulate (PCBs that enter an organism tend to be stored rather than broken down or excreted), which can increase the potential effect of PCBs on the food chain. Chemical properties are more difficult to define for groups of chemicals, such as PCBs, than for individual constituents. In general, less chlorinated PCBs are more water-soluble and adsorb less strongly to sediment than the more chlorinated PCBs. This tendency is illustrated by the relatively low solubility and high partition coefficient, in sequence, for the deca-substituted (PCB-209) and tetra-substituted homologs as compared to the tri-substituted homologs (Table 2-1). The heaviest PCB, PCB-209 (decachlorobiphenyl), is even less water-soluble and partitions more strongly to sediment than the tetra-substituted PCBs. The lighter PCBs also tend to be more biodegradable under aerobic conditions. Anaerobic biodegradation has also been reported in some cases, although anaerobic degradation tends to focus on the heavier PCBs. Reductive dechlorination by aerobic or anaerobic organisms tends to focus on the meta- and para-chlorines. Ortho-substituted PCBs are less likely to be biodegraded but these PCBs are also less toxic than the coplanar PCBs (Field et al. 2007). The large majority of sediments at the Site are anaerobic, and degradation of PCBs is typically quite slow under those conditions to the point that degradation of PCBs in sediments is generally not considered an important process on the timescales of interest for the RI/FS. Additional information on Site-specific PCB characteristics is included in the chemical fate modeling documented in Appendix A.

### 2.6.3.2 *Total Polycyclic Aromatic Hydrocarbons*

As with the group of PCBs, PAHs, as a group, are complex to evaluate and the data presented in Table 2-1 indicate a wide range of chemical properties. Certain PAHs (e.g., acenaphthene and naphthalene) are more likely to be present in the aqueous phase than other PAHs because they have higher solubility in water and lower partition coefficients. However, acenaphthene and naphthalene, in particular, have relatively short half-lives in aerobic conditions, which may prevail in shallow surface water. Other PAHs (e.g., benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene) have significantly less solubility in water and higher partitioning coefficients. These PAHs are less likely to be present in the aqueous

phase and have relatively long half-lives under anaerobic conditions that are present in sediment at the Site.

Generally, PAHs are more soluble than heavier PCBs (e.g., PCB-209) and less soluble than BEHP. Despite having a greater solubility than heavier PCBs, PAHs are less bioaccumulative because they are metabolized by organisms. Certain PAHs (e.g., anthracene, fluoranthene, and pyrene) demonstrate similar solubility and bioavailability as lighter PCBs (e.g., tri- and tetra- substituted PCBs), while naphthalene and acenaphthene are approximately an order of magnitude more soluble than tri-substituted PCBs.

### *2.6.3.3 Bis(2-ethylhexyl) Phthalate*

Data presented in Table 2-1 indicate the solubility and partitioning coefficient of BEHP is similar to tri-substituted PCBs. Biodegradation of BEHP has been reported with a half-life range of 41 to 389 days in anaerobic conditions, which are likely in subsurface sediment at the Site (USEPA 1996). Aqueous BEHP is also relatively biodegradable within the aerobic conditions likely present in the shallow surface water of the Site. The aerobic half-life of BEHP is between 5 and 23 days (USEPA 1996; Table 2-1).

### *2.6.3.4 Lead and Mercury*

The solubility of metals, including lead and mercury, is highly dependent on water chemistry, which affects the speciation of the metal. Mercury solubility is controlled by the presence of sulfide radicals and organic matter (Bessinger et al. 2012). Lead is reported as insoluble in water at neutral and higher pH (USEPA 2007). Lead can react with a variety of negative radicals (such as sulfide, sulfate, and carbonate) to form insoluble salts.

Analytical tests performed on samples from the Site provide multiple lines of evidence that the chemical states of lead and mercury found at the Site appreciably limit bioavailability:

- The acid volatile sulfide (AVS) and simultaneously extracted metal (SEM) analyses test whether the amount of sulfide radicals present in the environment is sufficient to sequester the available divalent metals such as mercury and lead. When the molarity of AVS exceeds the molarity of SEM, the SEM are present in the form of insoluble sulfide salts that are not bioavailable (USEPA 2000). The AVS/SEM analyses



summarized by Anchor QEA (2010) demonstrate that sufficient sulfide is present at the Site to sequester all of the available lead and mercury as insoluble sulfide minerals. Moreover, mercury SEM was below detection in all samples.

- Methylmercury is the most bioavailable form of mercury found in the environment. The analysis of mercury speciation in porewater discussed in Section 2.6.2.3.1 indicates that rates of mercury methylation in Patrick Bayou sediments is low, and therefore markedly limits the bioavailability of mercury to aquatic receptors and exposure to higher trophic level receptors.
- Lead was not detected in porewater (Anchor 2008).

### 2.6.3.5 *Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans*

As with PCBs and PAHs, PCDDs/PCDFs (as a group) are complex to evaluate due to a wide range of chemical properties that these constituents exhibit (Table 2-3). PCDDs/PCDFs share many of the general physical-chemical properties of PCBs. As with PCBs, PCDDs/PCDFs are hydrophobic organic compounds characterized by low aqueous solubilities, have low vapor pressures, and high octanol-water partition coefficients (Table 2-3), and are not readily degraded in the environment. However, PCDDs/PCDFs are considerably more hydrophobic than PCBs (Table 2-3).

## 2.7 Contaminant Fate and Transport

As discussed in Section 2.6.2 and in greater detail in Section 4 of the RI Report (Anchor QEA 2013b), the primary IC class at the Site is PCBs. Total PAHs, BEHP, and lead are also associated with some risk to benthic receptors. Mercury and PCDD/PCDFs are being considered in this report based on USEPA's direction to consider the human health TSWQS as an ARAR for the Site. The fate and transport of PCBs, other ICs, mercury, and PCDD/PCDFs is a function of their chemical properties and the physical conditions of the Site. This section discusses key fate and transport processes and the modeling framework used to evaluate the fate and transport of these chemicals at the Site in this FS.

There are a number of processes that can affect fate and transport of sorptive chemicals (such as PCBs) within an aquatic system (Figure 2-33). The most significant chemical fate and

transport processes affecting concentrations of PCBs (and similar sorptive compounds) within Patrick Bayou include the following:

- Sediment-water interactions – Because of the hydrophobic nature of PCBs, they preferentially bind to particulate matter. As discussed above, the extent of hydrophobicity varies by congener, with the lighter, less chlorinated congeners exhibiting less hydrophobicity than the heavier, more chlorinated congeners. The sediment bed, therefore, serves as a net sink, adsorbing PCBs. To the extent that PCBs may have accumulated within the bed over time (e.g., if there were historical releases and subsequent transport), they can act as a source to the water column, and chemicals being transported in the water column can likewise deposit on the bed. The flux of sediment particles (and particle-bound PCBs) between the bed and water column are driven by sediment deposition and erosion processes, especially during episodic events such as floods. Deposition also provides a mechanism for natural recovery if concentrations of PCBs on particles in the water column are lower than those at the bed surface. Thus, within-bed dynamics, such as transfers between surface and deeper layers of the bed, are also important.
- Partitioning and dissolved phase flux – The distribution of PCBs between the particulate and dissolved phases within the water column and bed sediments are determined by their partitioning behavior (as quantified by the partitioning coefficient). Because they are hydrophobic (as indicated by relatively high organic carbon/water partition coefficient; Mackay et al. 1992), PCBs will primarily be present in particulate form, which means that their fate is largely determined by sediment transport processes. However, in areas where PCBs have accumulated within the surface layer of the sediment bed, partitioning will result in porewater concentrations that can be much greater than those in the overlying water column. Such a concentration gradient, through the process of surface exchange flux (due to diffusion, bioturbation, and tidal pumping), results in a transfer of dissolved-phase mass to the water column that can affect concentrations in the Site under low flow conditions.
- Transport in the water column – PCBs that are present in the water column (in both dissolved and particulate phases) are transported with the currents, which are affected by freshwater flow in addition to more complex circulation patterns associated with tides and ship traffic. Transport in the water column differs depending on the flow

regime, since the relative importance of freshwater flow and tidal action, as well as the fate and transport processes that are active, differ by flow conditions. For example, under higher flow conditions, transport associated with sediment deposition and erosion is much greater.

- External sources – In addition to fluxes from the sediment bed, which are considered an internal source, PCBs also enter the aquatic environment within the Site via external sources. As discussed in Section 2.6.1, transport of ICs, mercury, and PCDD/PCDFs via groundwater to the Site may have occurred historically but is no longer occurring at the Site. PCBs were detected in surface water samples collected upstream of the Site, as well as in the East Fork, albeit at relatively low concentrations. Furthermore, PCBs were detected in the HSC upstream of the Site and in dry and wet atmospheric deposition samples that were collected adjacent to the Site as part of the TMDL study (Rifai and Palacheck 2006, 2007, 2008, 2009, 2010). These processes therefore represent external sources to the aquatic environment of the Site.

Water column data collected during and subsequent to the RI Report (Anchor QEA 2013b) provide a considerable amount of insight regarding PCB fate and transport processes within Patrick Bayou. Figure 2-23 shows spatial profiles of water column PCB data collected during 2009, 2011 (blue and red circles), and 2014 (green circles). These datasets show an increase in water column PCB concentration occurring across the concrete-lined channel (the upstream and downstream ends of the concrete-lined channel are indicated by vertical dashed lines on the figure). In 2009 and 2011, dataset total PCB concentrations increased from approximately 5 ng/L to nearly 100 ng/L across this relatively short reach, followed by a more gradual increase across the remainder of the Site. These data indicate that a significant load of PCBs to the water column begins at this location.

Additional water column data were collected in 2014 (green circles on Figure 2-23) at a higher spatial resolution in the concrete-lined channel to develop a better understanding of the nature and extent of PCBs in surface water over this reach. These results confirmed the understanding of the spatial distribution of PCB loading Site-wide, and further demonstrated that a significant load is occurring over a relatively small portion near the downstream end of the concrete-lined channel (from approximately PB-082 to PB-075).

Water column concentration increases downstream of the concrete-lined channel are likely a result of dissolved-phase flux of PCBs from PCB-containing sediments to the overlying water column. The subsequent decrease in these data at the downstream end of the Site is likely due to tidal mixing and dilution with water entering Patrick Bayou from the HSC.

Figure 2-23 also shows that concentrations measured in 2014 were much lower than concentrations measured in 2009 and 2011, which indicates that natural recovery is active at the Site. Further discussion of these trends with respect to natural recovery is provided in Section 4.3.2 and Appendix E.

A comprehensive chemical fate and transport model was developed to support this FS. This model, which was developed and calibrated to reproduce the observed longitudinal gradients in water column PCB concentrations described above, is described in detail in Appendix A. A brief summary of the overall model objectives and framework is provided below. Note that while the model developed to support this FS focused on PCBs, additional data will be collected during remedial design to support fate and transport modeling of surface water quality for mercury and PCDD/PCDF TEQ.

### **2.7.1 Fate and Transport Modeling**

The primary goal of the chemical fate and transport modeling study (summarized in Appendix A) is to simulate physical and chemical processes that are controlling the chemical fate and transport of PCBs within Patrick Bayou. Specifically, the primary objective of the modeling was to develop a mathematical framework that can do the following:

1. Build upon the existing hydrodynamic model and STM for the Site that are described in the STM Report (Anchor QEA 2011c)
2. Provide a quantitative linkage between PCBs in sediments and PCBs in surface water (i.e., predict observed mass flux)
3. Be used as a predictive management tool to evaluate the effectiveness of various remedial alternatives, including natural recovery, in meeting the relevant water quality standard, and providing improvements to potential benthic risk issues

The mathematical modeling framework that was applied consists of three models that were linked together: hydrodynamic, sediment transport, and chemical fate and transport (Figure 2-34). The hydrodynamic model and STM are documented in the STM Report (Anchor QEA 2011c), while the chemical fate model is documented in Appendix A. These models were developed and calibrated, and together form a quantitative framework that can be used as a management tool to guide risk management decisions for the Site. The calibration and validation of the model framework indicates that it can simulate hydrodynamics, sediment transport, and chemical fate and transport within Patrick Bayou with sufficient accuracy to support its use in making relative comparisons among remedial alternatives in the FS. Because of the uncertainties associated with modeling due to data limitations, model sensitivity analyses were conducted to develop uncertainty bounds around its predictions. These uncertainty bounds were carried through the simulations of remedial alternatives presented in Appendix A.

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### **3 BASIS FOR REMEDIAL ACTION**

#### **3.1 Remedial Action Objectives**

RAOs for the Site were developed during the RI Report (Anchor QEA 2013b) and refined during preparation of the FS. The RAOs are intended to do the following:

- Address potential risk to benthos associated with PCBs, PAHs, lead, and BEHP
- Mitigate risk to aquatic-dependent wildlife associated with PCBs
- Reduce total PCB concentrations in surface water to the TSWQS for protection of human health or to background levels in the HSC, if higher

The surface water RAO was developed to address ARARs as directed by USEPA. Detailed discussion of ARARs, including water quality ARARs, is provided subsequently in this Section.

As described in Section 1.2, consistent with the direction provided by USEPA, RAOs for mercury and PCDD/PCDF TEQ in surface water are not included in the FS. Rather, establishment of RAOs for these chemicals will be considered using the adaptive management framework for the Site after additional data collection and analysis (e.g., modeling) has been performed during the design phase. This additional information will provide a basis for establishing additional RAOs; evaluating the potential effect of the alternative selected in this FS on water quality with respect to these chemicals; and, if necessary, identifying additional remedial actions that may be required.

#### **3.2 Benthic Risk Remedial Action Objectives**

To address potential benthic risk, a benthic RAO was developed for this FS based on the BERA Report (Anchor QEA 2013c). More specifically, the benthic RAO was derived from site-specific, paired sediment chemistry and sediment toxicity data (referenced in section 2.6.2.6.) that were used to characterize risk to the benthic community in the BERA Report (Anchor QEA 2013c). Using the sediment toxicity and sediment chemistry LOEs approved in the BERA Report (Anchor QEA 2013c), a threshold mean PEL-Q was identified that is protective of the narrative intent of the benthic RAO. The development of the benthic RAO is presented in the following subsections.

### **3.2.1 Summary of the BERA Risk Characterization**

As stated previously, a WOE approach was developed to assess benthic risk in the BERA Report (Anchor QEA 2013c). This WOE approach included the review and analysis of site-specific bulk sediment chemistry data, sediment bioassay (toxicity) data, and benthic community data as LOEs. The objective of the WOE approach was to use the apparent correspondence between the values or metrics assigned to the LOEs, and the overall strength of the correspondence, where it existed, to identify areas of the Site where measurable incremental risks to the benthic community due to exposure to site-related COPCs are deemed probable, indeterminate, or low.

Twelve different locations within the Site with co-located synoptic bulk sediment chemistry, bioassay, and benthic community data were included in the analysis. Based on the WOE approach, three of these locations were identified as areas where incremental Site-related risks to the benthic community was probable, four areas were identified as indeterminate, and five areas were identified as low (Figure 8-1 of the BERA Report, Anchor QEA 2013c).

Although the BERA Report (Anchor QEA 2013c) did not identify any specific risk management recommendations for benthic risk, the RI Report (Anchor QEA 2013b) concluded that remedial alternatives should be evaluated in the FS that lower the overall Site and sub-area risk for areas that are characterized as indeterminate and probable risks to benthos (Anchor QEA 2013b). The RI Report (Anchor QEA 2013b) also recommended that risk management strategies for benthic receptors should be considered within the overall context of other risk management considerations such as surface water quality.

To support the remedial alternatives evaluation, the results of the BERA Report (Anchor QEA 2013c) benthic risk assessment were used to identify a mean PEL-Q threshold, the definition of which was discussed in Section 2.6.2.3, that would represent the highest threshold characterized as low risk to the benthic community, based on the sediment toxicity LOE. The benthic community LOE was not incorporated in this analysis given the very low degree of correspondence between this LOE and the sediment toxicity and chemistry LOEs.

In the BERA Report (Anchor QEA 2013c), the sediment toxicity LOE was evaluated using the frequency of toxicity associated with a particular location. To characterize toxicity for a

specific location, the proportion of toxic samples was determined for each location. The proportion toxic was calculated as follows:

$$\text{Proportion toxic} = \text{Toxic results} / \text{Total results}$$

Next, overall incremental risk to benthos due to sediment toxicity was categorized for each location using the proportion of toxic samples according to the following criteria:

- Probable Risk – the proportion of toxic samples was equal to or exceeded 50 percent
- Indeterminate Risk – the proportion of toxic samples was between 25 and 50 percent (exclusive)
- Low Risk – the proportion of toxic samples was less than or equal to 25 percent

### **3.2.2 Identification of Preliminary Remediation Goal for Benthic Risk**

To identify an RAO for benthic risk, the highest mean PEL-Q threshold that resulted in low frequency of adverse effects based on the sediment toxicity LOE was identified using the BERA analysis. The mean PEL-Q and proportion of toxic samples at each sample location evaluated in the BERA Report (Anchor QEA 2013c) are presented in Table 3-1. Based on the dataset presented in the BERA Report (Anchor QEA 2013c), the highest mean PEL-Q associated with low frequency of sediment toxicity is 4.47. Thus, a mean PEL-Q threshold of 4.47 was identified as the benthic RAO for the FS. Figure 2-32 presents mean PEL-Q and toxicity results for surface sediment samples, as described in Section 2.6.4. Figure 3-1 presents Thiessen polygons where the benthic RAO is exceeded based on the 2009 surface sediment dataset. This figure does not consider changes in sediment chemistry/mean PEL-Q that might have occurred due to natural recovery since the baseline sediment dataset was collected in 2009. Additional sampling is planned during the pre-design phase to update surface sediment conditions with respect to the mean PEL-Q (i.e., areas exceeding the RAO will be refined). See Section 4.3 for additional details on the screening and assembly of alternatives to address RAOs, including pre-design sampling.

## **3.3 Aquatic-dependent Wildlife RAO**

Potential risks to aquatic-dependent wildlife were identified for two receptors, spotted sandpiper and belted kingfisher, due to exposure to PCBs in their diet and through incidental



sediment ingestion. For the spotted sandpiper, the PCB HQ was equal to 1.0, and for the belted kingfisher, the PCB HQ was equal to 1.7. Although these risk levels are at or exceed the threshold HQ of 1.0, these exceedances do not require the derivation of aquatic-dependent wildlife-specific RAOs that are separate from the surface water and benthic RAOs defined in the preceding two sections. This is because the surface water and benthic RAOs directly address PCBs in surface water and sediment, which are the primary exposure pathways that contribute to PCB bioaccumulation in the tissue of food items consumed by these two receptors. Reductions in surface water PCB concentrations and reductions in the bioavailability of sediment-based PCBs will result in a reduction of PCB concentrations in food items consumed by the sandpiper and the kingfisher to levels that are protective of these receptors. Specifically, due to the linkage between site surface water and sediment concentrations of PCBs and the concentration of PCBs in site prey items consumed by the spotted sandpiper and the belted kingfisher, reductions in PCBs concentrations in surface water and sediment on the order of 40 percent should be sufficient to reduce the highest HQ from 1.7 to 1.0 or less. As discussed in Appendix A, surface water concentrations have already dropped by a factor of two to three times from 2009 to 2014, and are expected to decrease further in the future. Sediment concentrations decrease by similar or greater amounts depending on location. These actual and modeled reductions are sufficient to reduce levels in prey items that are protective of these avian receptors.

### **3.4 PCB Surface Water Remedial Action Objective**

In the Draft FS Report (Anchor QEA 2014), the TSWQS saltwater chronic criterion for PCBs (30 ng/L) was identified as an ARAR and selected as an RAO. Initially the USEPA directed the JDG to consider the TSWQS human health criterion 'fish only' for PCBs (0.64 ng/L) as an ARAR. However, upon further evaluation it became apparent that the TSWQS human health criterion for PCBs is not attainable at the Site due to background conditions within the HSC (see Section 2.6.2). Therefore, USEPA directed the RAO to be the higher of the PCB TSWQS human health criterion or background. Thus, the RAO for total PCBs in surface water for the Site is set at 8.2 ng/L, which is the background value established in the HSC (see Section 2.6.2.4.1).

### 3.5 Mercury and PCDD/PCDF TEQ Risk Summary

In the approved RI Report (Anchor QEA 2013b), mercury and PCDD/PCDF TEQ were not identified as COCs based on the results presented in the BERA Report (Anchor QEA 2013c) and BHHRA Report (Anchor QEA 2012). Unacceptable adverse risk due to these chemicals was not indicated in either the ecological or human health risk assessments approved by USEPA.

The proportion of methylated mercury, the most toxic and bioaccumulative form, measured in porewater at the Site is markedly low relative to total mercury. These low concentrations of methylmercury are reflected in relatively low rates of bioaccumulation in fish and shellfish in Patrick Bayou, resulting in no adverse risk to fish or wildlife. Mercury did not demonstrate a significant association with benthic toxicity. For recreationally consumed species, trend analysis indicated that Patrick Bayou was not an incremental source to fish in the HSC at the point of exposure (i.e., San Jacinto monument) and was not selected as a COPC for the human health fish consumption pathway. Overall, based on the USEPA-approved risk assessments, there is no indication that risk management actions are required to address mercury in Patrick Bayou to protect human health or the environment.

Similarly, PCDD/PCDF TEQ were not identified as risk drivers in the BERA Report (Anchor QEA 2013c) or BHHRA Report (Anchor QEA 2012). Fish and shellfish data were used to characterize risk to fish and wildlife in the BERA Report (Anchor QEA 2013c). These risks did not exceed unacceptable levels. In the BHHRA Report (Anchor QEA 2012), spatial patterns and congener profile distributions of PCDDs and PCDFs in tissue samples from Patrick Bayou and HSC indicated there was no significant incremental contribution to fish and shellfish caught and consumed by anglers at the point of exposure. Therefore, the exposure pathway from Patrick Bayou to the nearest receptors of concern at the point of exposure was not considered significant. As a result, risk management actions to address risk from PCDD/PCDF TEQ to protect human health or the environment, based on the risk assessments, were not required.

The lack of site-specific, risk-based need for risk management to address mercury and PCDD/PCDF TEQ suggests that the chemical-specific ARARs based on the TSWQS are very

conservative. This conservatism will be considered when identifying the RAOs for these COCs during the design phase.

### **3.6 Applicable or Relevant and Appropriate Requirements and Other Advisories, Criteria, or Guidance To Be Considered**

The development and evaluation of remedial alternatives, as presented in Sections 4 and 5 of this document, includes an assessment of the ability of the remedial alternatives to address ARARs of environmental laws and facility siting standards. In addition to ARARs, other advisories, criteria, and guidance were considered in accordance with the NCP, specifically 40 CFR 300.400(g)(3); these factors are identified as To Be Considered (TBC) guidelines. Table 3-2 provides a broad summary of potential ARARs and TBCs that have been identified for this Site. Many of the ARARs and TBCs in Table 3-2 are relevant to only some of the remedial alternatives, but all of the requirements that may be relevant to the Site and any of the remedial alternatives are identified in the list.

After a remedy is selected, a detailed review of ARARs specific to the selected remedial action will be conducted and included in the Design Analysis Report for the selected action. The implementation of on-site remedial actions does not require Federal, State or local permits because of the permit equivalency of the CERCLA remedy-selection process (40 CFR 300.400(e)(i)), but remedial actions will be completed in conformance with substantive technical requirements of those regulations that have been determined to be ARARs.

The ARARs in Table 3-2 can be divided into three categories, although some ARARs may belong to more than one of these categories:

- Chemical-specific requirements
- Location-specific requirements
- Performance, design, or other action-specific requirements

Chemical-specific ARARs are typically the environmental laws or standards that result in establishment of health- or risk-based numerical values. When more than one of these chemical-specific ARARs are applicable to site-specific conditions, a remedial alternative should generally comply with the most stringent or conservative ARAR. Chemical-specific

ARARs presented in Table 3-2 include Clean Water Act (CWA) criteria and State water quality and waste standards, where applicable to a waterbody.

Location-specific ARARs include restrictions placed on the implementation of certain types of activities based on the location of a site. Some examples of specific locations where restrictions may be considered include floodplains, wetlands, historic places, certain land use zones, and other sensitive habitats. Location-specific ARARs presented in Table 3-2 include the Rivers and Harbors Act, Coastal Zone Management Act, and Federal Emergency Management Agency/National Flood Insurance Program regulations.

The action-specific ARARs are generally technology or activity-based limitations or guidelines for management of pollutants, contaminants, or hazardous wastes. These ARARs are triggered by the type of remedial activity selected to achieve the RAO, and these requirements may indicate how the potential alternative must be achieved. Action-specific ARARs presented in Table 3-2 include water quality certifications (CWA Section 401) and discharges of dredged and fill material (CWA Section 404), Clean Air Act, Endangered Species Act (ESA) and other wildlife protection acts.

The following sections discuss ARARs that have the most significance to the evaluation of remedial alternatives for the Site. Action-specific ARARs do not apply to all of the remedial alternatives. For example, requirements for waste management and hazardous materials transportation are most significant for remedial alternatives that involve removal of sediment, and would not apply at all to remedial alternatives that involve no removal of material from the Site. The types of actions that trigger compliance with these requirements are also discussed.

### **3.6.1 Water Quality and Water Resources**

#### **3.6.1.1 Section 303 and 304 of the Clean Water Act and Texas Surface Water Quality Standards**

Section 303 of the CWA requires states to promulgate standards for the protection of water quality based on Federal water quality criteria. Federal water quality criteria are established pursuant to Section 304. The TSWQS, where applicable, are relevant to evaluation of short-

term and long-term effectiveness of the remedial alternatives. As discussed in Section 3.1, the RAO was established, in part, to address the TSWQS for PCBs. As discussed in Section 1.2, this ARAR will be considered in establishing surface water RAOs for mercury and PCDD/PCDF TEQ after additional data collection and analysis, if necessary.

### *3.6.1.2 Section 401 Water Quality Certification of the Clean Water Act as Administered by Texas*

Section 401 requires that the applicant for Federal permits obtain certification from the appropriate State agency that the action to be permitted will comply with State water quality standards. Although environmental permits are not required for on-site CERCLA response actions, the selected remedy would incorporate elements to comply with State water quality standards if appropriate.

### *3.6.1.3 Section 404 and 404(b)(1) of the Clean Water Act and Texas Parks and Wildlife Commission Marl, Sand, and Gravel Permit*

The CWA Section 404 requires that discharges of fill to waters of the United States serve the public interest. In selecting a remedial alternative, including discharge of fill, USEPA would be required to make the determination that the placement of materials into Patrick Bayou serves the public interest as necessary to remediate the Site. The Site includes submerged areas within the Patrick Bayou waterway, as well as areas that are occasionally not submerged. A plan will need to be established that addresses the requirements (to the extent practicable) of Section 404 and 404(b)(1). During design of a remedial action, USEPA may request that any potentially responsible parties prepare a 404(b)(1) report for consideration by the USEPA based on identification of a preferred alternative.

In addition, the State of Texas regulates taking sedimentary material (marl, sand, gravel, shell, and mudshell) from public waters under chapter 86, subtitle F of the Texas Parks and Wildlife Code. If the selected remedy includes dredging, permits would not be required from the State, as the activity would be performed as part of an on-site CERCLA action.

### *3.6.1.4 Texas Pollutant Discharge Elimination System*

Within the State of Texas, the NPDES, which demonstrates compliance with Section 402 of the CWA, is administered by TCEQ and referred to as Texas Pollutant Discharge Elimination

System (TPDES). If the selected remedy includes a discharge to surface water, the discharge would need to comply with the substantive TPDES requirements even though on-site CERCLA actions are exempt from permitting.

### **3.6.1.5 Rivers and Harbor Act, Texas State Code Obstructions to Navigation, and Port Authority of Houston Marine Construction Permit**

The Site is within a navigable waterway that is regulated by USACE under Section 10 of the Rivers and Harbors Act, the State of Texas under the Natural Resources Code, and the Port Authority of Houston under their Marine Construction Permitting authority. The construction in navigable waters of structures (potentially including sediment caps), facilities, and bridges or removal and placement of trees that would obstruct navigation are among the activities that may trigger compliance with the regulations.

### **3.6.2 Protected Species Requirements**

This section addresses requirements of the ESA, the Fish and Wildlife Coordination Act, the Bald and Golden Eagle Protection Act, and the Migratory Bird Treaty Act. The Site is located within an intensely developed industrial area and is not known to provide habitat suitable for any listed aquatic species; however, the Site is approximately 11 miles upstream of Galveston Bay, which provides rearing, spawning, and adult habitat for numerous marine and estuarine fish and invertebrate species, including blue crab, black drum, flounder, oysters, spotted sea trout, and shrimp, which are among the species identified as National Oceanic and Atmospheric Administration Trust resources.<sup>14</sup> The Site also provides suitable resting and foraging habitat for migratory birds. The design and overall goal of the remedial action is to improve habitat conditions through the anticipated reduction of contaminants potentially released to the environment. Certain actions may require timing considerations to avoid potential harm of protected species.

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<sup>14</sup> Coastal and Estuarine Hazardous Waste Site Reports, Table 1, accessed October 2013. Available from: [http://archive.orr.noaa.gov/book\\_shelf/391\\_wsr4\\_patrickbayou.pdf](http://archive.orr.noaa.gov/book_shelf/391_wsr4_patrickbayou.pdf).

### **3.6.3 Coastal Zone Management and Texas Coastal Management Plan**

Federal agency activities that have reasonably foreseeable effects on any land or water use or natural resource of the coastal zone (also referred to as coastal uses or resources and coastal effects) must be consistent to the maximum extent practicable with the enforceable policies of a coastal state's federally approved coastal management program (NOAA 2012). The GLO administers the Texas Coastal Management Consistency certification. Under Texas law, a coastal natural resource area is a coastal barrier, coastal historic area, coastal preserve, coastal shore area, coastal wetland, critical dune area, critical erosion area, Gulf beach, hard substrate reef, oyster reef, submerged land, special hazard area, submerged aquatic vegetation, tidal sand or mud flat, water in the open Gulf of Mexico, or water under tidal influence, as these terms are defined in 33.203 of the Texas Natural Resources Code. The remedial alternatives are reviewed for consistency with ARARs, including coastal uses, in Section 5. Consultation with GLO would be performed, if necessary, as part of remedial design.

### **3.6.4 Floodplain**

Construction, including remedial response, within a floodplain must not restrict flow such that it would create or exacerbate potential flooding. A hydrologic evaluation would be performed during remedial design to assess existing flow conditions at the Site. Modeling would be used, in part, to evaluate potential impacts of the remedial alternatives on the water levels in Patrick Bayou and steps taken to mitigate such problems.

### **3.6.5 Cultural Resources Management**

The National Historic Preservation Act and the Antiquities Code of Texas (ACT) have applicability to remedial action at the Site. This section provides a summary of existing information on recorded historic properties and a summary of potentially applicable requirements.

Section 106 of the National Historic Preservation Act and its implementing regulations at 36 CFR 800 require that Federal agencies take into account the effects of their undertakings on historic properties. The Section 106 process requires agencies to:

- Determine the Area of Potential Effects (APE), defined as “the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist” (36 CFR 800.16(d)).
- Inventory potential historic properties (prehistoric or historic districts, sites, buildings, structures or objects; including Traditional Cultural Properties) within the APE.
- Evaluate the potential historic properties to determine if any are eligible for listing in the National Register of Historic Places (NRHP).
- Assess whether the project will have effects on any NRHP-eligible properties in the APE, and whether the effects will be adverse.
- Resolve any adverse effects to NRHP-eligible historic properties in a Memorandum of Agreement (MOA) describing mitigation measures.
- Consult with interested and affected Indian Tribes, the State Historic Preservation Officer, the public, and other interested parties.

The requirements of the ACT (Title 9, Chapter 191 of the Texas Natural Resource Code) and the associated Rules of Practice and Procedure for the ACT (Texas Administrative Code Title 13, Part II, Chapter 26) apply to the project if construction is performed on lands below MHW, which are owned by the State of Texas. The ACT requires that project information be provided to the Texas Historical Commission for review.

There are no recorded historic properties in the immediate project area, according to the Texas Archaeological Sites Atlas (checked December 4, 2013). The nearest archaeological sites are at least 1 mile from Patrick Bayou. A number of historical markers, primarily related to the Battle of San Jacinto, are located more than 1 mile east of the project area. Three archaeological surveys have been conducted intersecting the project area. Little information is available on the surveys, but records indicate that no archaeological sites were located in the project vicinity during these surveys.

The project area possibly contained archaeological materials at some time in the past. The presence of precontact middens and historic early 20th century sites in the vicinity (in addition to the proximity of the historically significant location of the Battle of San Jacinto)



indicates that the area was used in the precontact and historic eras. The Site is unlikely to contain archaeological materials, however, as much of the length of Patrick Bayou has been altered by historic and modern industrial activities. A comparison of 1953 and 2012 aerial photographs illustrates the straightening of Patrick Bayou (Figure 3-2).

Despite the extensive industrial activity, some upland areas may contain archaeological resources (possibly under modern fill). These areas, especially those at relatively higher elevations, appear to have changed relatively little. For example, the peninsula created where Patrick Bayou joins the HSC may have been a particularly attractive location for use and settlement in the recent and distant past. Remedial action plans would consider potential effects that staging, access, and other activities may have on potentially historically sensitive areas. If necessary, some areas may be designated off limits for construction activities.

To fulfill the requirements of Section 106, the following steps will be implemented during remedial design:

- The APE will be determined based on engineering designs for the selected alternative.
- Project plans will be analyzed by a qualified archaeologist to determine whether any areas with archaeological potential will be impacted within the APE.
- If areas with archaeological potential will be impacted, an archaeological survey will be conducted to identify and evaluate any archaeological historic properties and a report will be prepared documenting the findings of the analysis. Determinations of NRHP-eligibility of any potential historic properties and of potential project effects should be made by USEPA, in consultation with Texas Historical Commission. Determinations and supporting documentation should be provided to consulting parties.
- If any adverse effects to NRHP-eligible historic properties are identified, USEPA should work with consulting parties to develop mitigation measures and prepare a MOA.

### **3.6.6 Noise Control Act**

Noise abatement may be required if actions are identified as a public nuisance. As the Site is bounded by large industrial facilities and the HSC, noise from construction activity is unlikely to constitute a public nuisance.

### **3.6.7 Hazardous Materials Transportation and Waste Management**

Under nearly any remedial action scenario, aside from the No Action alternative, off-site disposal may be required for limited quantities of waste such as used personal protective equipment. Some remedial alternatives may require disposal of more significant quantities of material such as debris. Typically, remedial contractors would be required to package any hazardous materials in appropriate containers and label containers in accordance with Texas Department of Transportation and other applicable requirements. An existing permitted facility (e.g., landfill) would be chosen for any off-site disposal and submitted for approval to USEPA.

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## 4 DEVELOPMENT OF REMEDIAL ALTERNATIVES

This section includes the following discussions:

- Preliminary delineation of various sediment management areas (SMAs) at the Site where specific remedial technologies are evaluated.
- Remedial technology considerations specific to this Site, as they apply to the assembly of FS alternatives.
- Assembly of remedial alternatives, which are carried forward into detailed and comparative evaluations against CERCLA criteria in subsequent sections of the FS.

### 4.1 Delineation of Sediment Management Areas

Preliminary SMAs were delineated that, if addressed, would result in the Site achieving the PCB surface water and benthic RAOs. It was further determined that addressing these SMAs will also address the aquatic-dependent wildlife RAO (see discussion in Section 3.3). This section describes the delineation of SMAs. Note that delineation of sediment SMAs 2 through 9 was completed using 2009 data. Refinement of all SMAs is anticipated using new data in the pre-design phase of this project.

The delineation of SMAs herein did not consider a potential new surface water RAO for mercury or PCDD/PCDF TEQ. Additional data will be collected during the design phase to refine the SMA delineation and to assess, using a modeling framework, the effectiveness of the specific technologies identified in the preferred alternative to address mercury and PCDD/PCDF TEQ surface water quality in Patrick Bayou. Based on these results, additional RAOs and the need for further remedial action to address mercury and PCDD/PCDF TEQ in surface water will be determined.

#### 4.1.1 *Sediment Management Area Delineation Approach for PCB Surface Water Remedial Action Objective*

A single SMA (SMA-1) was identified where actions would need to be evaluated for the remedy to achieve the PCB surface water RAO based on background conditions in the HSC. In the Draft FS Report (Anchor QEA 2014) the limits of SMA-1 were delineated using the chemical fate and transport model to estimate the reduction in PCB loading to surface water

necessary to achieve the TSWQS chronic saltwater aquatic life criteria total PCB value of 30 ng/L throughout a majority of the Site within a few years following completion of construction. The PCB surface water RAO was subsequently lowered to the background concentration in the HSC, 8.2 ng/L, as directed by USEPA (see Section 1.2). A review of the fate and transport modeling results indicated that remedial actions conducted within the limits of the original SMA-1 footprint presented in the Draft FS Report (Anchor QEA 2014) are expected to be sufficient to achieve this lower surface water RAO within several years following construction; therefore, no modification was made to delineation of SMA-1. This evaluation considered surface water quality data collected during three separate events over time (see Section 2.6) and fate and transport modeling as described in Appendix A.

Based on the analysis described in Appendix A, it was determined that remediation of sediments between Stations PB-075 and PB-082 would achieve the necessary load reduction in PCBs to the water column. As described in Section 2.6 of this report, additional water column data were collected in 2014 to develop a better understanding of the nature and extent of PCBs in surface water within the concrete-lined channel. Figure 2-23 shows a spatial profile of the 2014 water column data within the concrete-lined channel and throughout Patrick Bayou. This figure shows a relatively small increase in PCB concentration between approximately Stations PB-100 and PB-082 (increasing from approximately 5 to 10 ng/L over this reach), followed by a relatively large increase in PCBs between Stations PB-082 and PB-075 from approximately 10 to 70 ng/L. Based on these data and surface sediment data from this area, SMA-1 was defined as the 700 linear feet of the concrete-lined channel between stations PB-075 and PB-082. Verification and refinement of the extent of SMA-1 is anticipated in the pre-design phase of this project.

#### **4.1.2 Delineation Approach for Benthic Risk Sediment Management Areas**

To delineate benthic risk SMAs, the benthic RAO was applied to the baseline conditions using the 2009 RI Report (Anchor QEA 2013b) surface sediment dataset. Future conditions under each alternative were projected using the surface sediment half-life of PCBs estimated from simulations with the calibrated chemical fate and transport model (Appendix A).

Using the 2009 RI Report (Anchor QEA 2013b) surface sediment data, areas that currently meet the benthic RAO were identified. Areas currently exceeding the benthic RAO were further evaluated based on estimated sediment half-lives for PCBs predicted by the model (Appendix A) to evaluate if natural recovery would reduce surface sediment concentrations below the benthic RAO within a reasonable time frame. Areas that were not predicted to recover naturally to meet the benthic RAO within a reasonable time frame were delineated as benthic risk SMAs. Each element of this analysis is described in more detail in the subsections that follow. Table 4-1 summarizes the results of this analysis for two scenarios. Scenario 1 assumes that no remediation has occurred in SMA-1 (as in Alternatives 1 and 2, described subsequently). Scenario 2 assumes that SMA-1 has been remediated (as in Alternatives 3 and 4, described subsequently) and thus natural recovery rates are faster because of this remediation.

#### *4.1.2.1 Evaluating Baseline Conditions*

In the BERA Report (Anchor QEA 2013c), risk characterization was performed using data collected primarily in 2002 and 2003. However, due to the age of the dataset and the known dynamic nature of the sediment bed and chemistry within the Site, the sediment chemistry data collected in 2002/2003 as part of the sediment toxicity TMDL program are not considered representative of current conditions for the purposed alternatives development in this FS. Data collected in 2009 are more relevant for establishing the preliminary baseline condition to evaluate alternatives relative to benthic risk because the 2009 RI Report (Anchor QEA 2013b) surface sediment dataset is more recent, more comprehensive in terms of spatial coverage, and reflects more current methodology (e.g., high resolution PCB congener analysis) than the BERA Report (Anchor QEA 2013c) benthic risk assessment dataset.

Therefore, the surface sediment RI Report (Anchor QEA 2013b) dataset was used to establish the preliminary baseline condition for analysis of the alternatives. To delineate benthic risk SMAs, Thiessen polygons were defined for each of the 60 surface sediment samples used to map baseline conditions for the FS, and the mean PEL-Q was assigned to each polygon based on the sediment chemistry within that polygon. Using this approach, the mean PEL-Qs for the baseline condition were mapped as shown on Figure 3-1. It should be noted that, based

on the 2002/2003 dataset, areas 4A and 6A (see Figure 8-1 in the BERA Report, Anchor QEA 2013c) had the highest mean PEL-Q values, but the 2009 data indicate that the mean PEL-Q values in these areas have decreased. These decreases are consistent with the characterization of higher net deposition rates in these areas in the STM Report (Anchor QEA 2011c) and thus these decreases should be expected. Conversely, Area 3 in the 2002/2003 dataset was indeterminate from a sediment toxicity perspective, but this area is characterized by relatively low net sedimentation in the STM and thus conditions would not be expected to improve as rapidly as they have in areas 4A and 6A.

#### *4.1.2.2 Evaluating Future Conditions*

To evaluate natural recovery and future conditions under different alternatives, estimated sediment half-lives for PCBs in surface sediment were developed using the chemical fate and transport modeling (Appendix A). Using the model-predicted half-lives, the number of years that would be needed for benthic risk areas to achieve the benthic RAO as a result of natural recovery processes was evaluated. Development of the PCB half-lives and their application to the baseline condition are described below.

##### *4.1.2.2.1 Surface Sediment Half-life Estimates*

Mechanisms controlling natural recovery of contaminated sediment (e.g., processes such as deposition and degradation) often follow a first order decline (Chapra 1997; Magar et. al. 2009). Thus, the rate of natural recovery for PCBs was estimated by fitting an exponential rate of decline through surface (0 to 10 cm) sediment PCB concentrations predicted by the chemical fate model for a 24-year simulation period (see Appendix A). Spatially, half-life values were calculated based on spatially averaged, model-predicted concentrations over 1,000-foot-long segments (i.e., every ten sampling stations) across the Site.

These predicted half-lives were developed based on model simulation of PCBs using data from 2009 and the upper 10 cm of sediments. Inspection of model results indicates that the surface sediment rates of decline predicted by the model are driven by net sedimentation (consistent with the STM described in Anchor QEA 2011c). Thus, it is expected that that the mean PEL-Q would generally recover at the same rate as PCBs, because of this and the following additional factors:

- The mean PEL-Q is predominately driven by PCBs for nearly every sample in the surface sediment RI Report (Anchor QEA 2013b) dataset, as well as the benthic risk assessment WOE dataset. For locations with a baseline mean PEL-Q above the benthic RAO (Figure 3-1), PCBs account for a significant proportion of the overall mean PEL-Q.
- No ongoing sources of PAHs, BEHP, or lead were identified in the RI Report (Anchor QEA 2013b) that would contribute to the incoming sediment load to the Site beyond background inputs of these COPCs from upstream urban runoff.

While using simulated surface sediment PCBs as a representative of mean PEL-Q may introduce some uncertainty in the evaluation of future conditions, this uncertainty is considered relatively minor in the overall assessment and interpretation of future conditions. Note that future baseline evaluations will consider discrete depth zones to better assess MNR. Evaluating discrete depth zones will allow refinement of the bioactive zone and better assessment of MNR in critical horizons.

#### 4.1.2.2.2 Application of Half-lives to Baseline Conditions

To evaluate the rates of natural recovery in sediments with respect to the mean PEL-Q and associated risk to benthos, the number of years for each Thiessen polygon to decrease below the benthic RAO threshold of 4.47 was estimated using the following equation:

$$t = \frac{t_{1/2} \times \ln\left(\frac{N_0}{N_t}\right)}{\ln(2)}$$

where:

$N_t$  = target mean PEL-Q of 4.47

$t$  = years to achieve  $N_t$

$N_0$  = year zero (baseline) mean PEL-Q for location (Figure 2-32)

$t_{1/2}$  = half-life estimated from model-predicted surface sediment (0 to 10 cm)

PCB concentrations for the 1,000-foot segment containing the location  
(see Appendix A)

#### **4.1.2.3 Delineation of Benthic Risk Sediment Management Areas**

Using the approach presented in the preceding section (i.e., estimating mean PEL-Q reductions over time using baseline surface [0 to 10 cm] values from 2009 RI Report (Anchor QEA 2013b) data and half-life estimates from the PCB fate model, which are representative of mean PEL-Q changes over time as discussed in Section 4.1.2.2.1), the number of years necessary for natural recovery to achieve the benthic RAO was estimated for each mean PEL-Q polygon. Benthic risk SMAs were then delineated for areas where natural recovery estimates do not reduce the mean PEL-Q below the benthic RAO within 10 years.<sup>15</sup> The natural recovery rates used for Alternatives 1 and 2 (described subsequently) do not presume any action has been taken. The natural recovery rates used for Alternatives 3 and 4 assume SMA-1 has been remediated, thus accelerating natural recovery processes. Based on the evaluations described above, Thiessen polygons associated with surface sample locations PB-026, PB-032, PB-034, PB-036, PB-037, PB-041A, PB-047.1, and PB-069069 were identified as benthic risk SMAs for Alternatives 3 and 4 (Table 4-1).

#### **4.1.3 Delineation of Natural Recovery Areas**

Areas of the Site that currently exceed the benthic RAO (Figure 3-1), but that are projected to be at or below this RAO within 10 years due to natural recovery, will be monitored to assess changes in the mean PEL-Q over time. Thus, the term “Natural Recovery Areas” is defined as representing those areas where baseline data may exceed the benthic RAO, but are not otherwise delineated as surface water RAO SMAs or longer-term potential benthic risk SMAs.

#### **4.1.4 Summary of Sediment Management Area Delineation**

Table 4-2 summarizes the SMA identification, location, and primary driver for the delineation. Figure 4-1 shows the approximate limits of SMA-1 through SMA-9 and the Natural Recovery Areas. The actual number and limits of these SMAs and Natural Recovery Areas would be refined by pre-design baseline data collection and additional model calibration, which will be used in an adaptive management process to determine whether,

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<sup>15</sup> Ten years was selected as a reasonable time frame consistent with other Superfund Record of Decisions where natural recovery was a component of the selected remedy (e.g., Nyanza Chemical Waste Dump).



and to what extent, remediation of SMAs will be necessary to achieve RAOs. For the purpose of this FS, acreages shown in Table 4-2 were developed as follows:

- For SMA-1, the area was identified using the chemical fate and transport model by iterating on the size of this area during model calibration until a good match occurred with measured surface water results.
- For SMA-2 through SMA-9 and the Natural Recovery Areas, the acreage is based on Thiessen polygons generated using the 2009 surface sediment data.

While these acreages provide a starting point for estimating areas, the remedial alternatives development also includes technology-specific considerations, which in some cases increase the footprint over which action would be taken. For example, if capping were to be implemented, the surface area of the cap might be greater than the SMA that it would be covering to accommodate edge details such as bank anchoring. Remedial technology-specific considerations are discussed in additional detail subsequently in this section of the FS.

## **4.2 Remedial Technologies Screening**

The RATS (Anchor QEA 2013a) identifies General Response Actions (GRAs) and provides initial screening of remedial technologies. The RATS included consideration of institutional controls, natural recovery, in situ treatment, containment, removal, ex situ treatment, disposal, and beneficial reuse of sediments.

Most of these GRAs were retained for further consideration in the FS. However, specific issues related to certain GRAs were identified, and specific screening decisions were made in the RATS that eliminated certain technologies from further consideration for the Site. Based on the screening presented in RATS, the following remedial technologies were not considered applicable to the Site:

- Treatment by thermal desorption
- Treatment by sediment washing
- Disposal in an unconfined open water site
- Beneficial reuse of sediments

In addition, as explained in Section 4.2.5, removal was retained only in limited application to be used if necessary to maintain flood capacity of the channel for an in situ containment remedy.

The following supplemental information regarding GRAs is provided in the specific context of the final set of remedial alternatives for the Site in this FS.

#### **4.2.1 Institutional Controls**

Institutional controls are administrative measures that are implemented to mitigate risks or to protect the integrity of engineered controls. Institutional controls include “Proprietary Controls,” which are restrictions placed on the use of private property, “Governmental Controls,” which include restrictions on the use of public resources, “Enforcement Tools” that may be imposed by an agency to compel certain actions, and “Informational Devices,” which include notices about the presence of contamination or fishing advisories (USEPA 2012). Institutional controls are discussed in detail in the RATS and are evaluated for this FS in Appendix F, and are considered highly implementable and effective for controlling access to the Site and potential on-site exposure. Institutional controls currently in place, not all necessarily associated with the Site, include restricting access to the industrial facilities bordering Patrick Bayou, maintenance agreements, property use restrictions, Homeland Security requirements, monitoring and notification of waterway uses in the HSC, seafood consumption advisories in the HSC and Galveston Bay, and associated public outreach and education (Anchor QEA 2013a). Institutional controls implemented by the members of the JDG at the Site are expected to remain in place for the foreseeable future and as such are integral to any remedial alternative selected for the Site. Additional institutional controls, such as enhanced Texas811 notifications and annual notifications to any entities with easements or property ownership adjacent to the Site, will be considered as part of this GRA.

#### **4.2.2 Monitored Natural Recovery**

As outlined in USEPA’s Sediment Remediation Guidance (2005), MNR is a remedy for contaminated sediment that typically uses ongoing, naturally occurring processes to contain, destroy, degrade, or reduce the bioavailability or toxicity of chemicals in sediment and

associated surface water. MNR may rely on a wide range of naturally occurring processes to reduce risk to human and ecological receptors. These processes may include the following: 1) physical; 2) biological; and 3) chemical mechanisms that act together to reduce the risk posed by the chemicals. Depending on the chemicals and the environment, this risk reduction may occur in a number of different ways, including destruction (degradation or transformation) of COCs to less toxic chemicals, reduced mobility of COCs, burial, or dispersion.

MNR would entail design and implementation of a sampling and analytical program to monitor the progress of natural recovery. Sampling would be conducted at a representative range of locations and at appropriate time intervals to allow trends in concentrations in surface water and sediments to be assessed. Example sampling and analysis programs could include sampling of surface water, porewater, and sediment. Each component of the MNR remedy is described in more detail in the following sections. Details of the monitoring plans for each component, including data quality objectives and decision rules, would be developed during the remedial design phase.

#### *4.2.2.1 Monitored Natural Recovery Surface Water Monitoring*

To evaluate the effectiveness of MNR to achieve the PCB surface water RAO of 8.2 ng/L, periodic monitoring of PCBs in surface water would be required. To develop costs for the MNR alternative, it has been assumed that monitoring of surface water PCB concentrations would be required at up to five locations. Locations identified for the MNR evaluation would be determined in consultation with USEPA, and for purposes of this FS assume up to three locations within the Site, one location upstream of the Site, and one location in the HSC.

Sampling performed in 2014 as part of the supplemental surface water sampling program in support of the modeling effort (Appendix D) would be used to establish baseline conditions for this media. Monitoring would occur at a frequency and for a duration determined in consultation with USEPA; for purposes of this FS, up to ten monitoring events have been assumed over a 30-year period. Long-term monitoring may require more or less time than

expected; adaptive Site management would be used to adjust the time frame and the design of the monitoring program as appropriate.

#### **4.2.2.2 Porewater Monitoring**

The concentration of contaminants in porewater, particularly non-polar organics (e.g., PCBs, PAHs) and divalent metals, has been demonstrated to be a significant predictor of sediment toxicity (USEPA 2005, 2008). Reducing porewater concentrations through treatment will reduce the ability of compounds, such as PCBs, to bioaccumulate into food items for wildlife receptors. Thus, porewater monitoring would be an important component of monitoring remedy effectiveness for treatment technologies that are intended to limit exposure through reductions in porewater concentrations of target COCs. If treatment technologies are part of an alternative, porewater monitoring may be necessary to evaluate the effectiveness of the treatment. For example, to evaluate the reduction in benthic risk due to treatment, porewater sampling would include PCBs, PAHs, lead, and BEHP. Monitoring would occur at a frequency and duration determined in consultation with USEPA; for purposes of this FS, up to ten monitoring events have been assumed over a 30-year period. Long-term monitoring may require more or less time than expected; adaptive site management would be used to adjust the time frame and design of the monitoring program as appropriate.

#### **4.2.2.2 Surface Sediment Monitoring**

To evaluate the effectiveness of natural recovery to achieve the benthic RAO, monitoring the concentration of primary and secondary ICs in surface sediment would be performed. For FS purposes, it has been assumed that monitoring of PCBs, PAHs, lead, and BEHP would be performed on a composite basis over selected subareas within the Natural Recovery Areas. Within the Natural Recovery Areas, surface sediment samples would be collected at previously sampled surface sediment locations and composited over an appropriate subarea (e.g., a station range based on similar rates of expected recovery). Sampling would be performed prior to remedy implementation and periodically thereafter at time intervals determined in consultation with USEPA. The FS assumes up to ten monitoring events would be implemented across seven Natural Recovery subareas over a 30-year period.

Long-term monitoring may require more or less time than expected; adaptive site management would be used to adjust the time frame and sampling design for surface sediment monitoring as appropriate.

### **4.2.3 Containment**

In situ containment refers to the placement of an engineered subaqueous cap on top of chemically impacted sediment that will remain in place. A cap would be designed to effectively contain and isolate such sediments from the biologically active surface zone. As described in *Contaminated Sediment Remediation Guidance for Hazardous Waste Sites* (USEPA 2005), in situ caps can quickly reduce exposure to chemicals and typically require less infrastructure than ex situ technologies (e.g., dredging, dewatering, treatment, and disposal). Since capping leaves contaminated sediments in place, long-term monitoring is typically a component of in situ containment to verify that the cap is stable (i.e., not damaged) and continues to effectively isolate chemicals, or sufficiently attenuate chemical mobility through the cap (USEPA 2005).

In situ caps isolate chemically impacted sediments from the environment by use of natural (e.g., sand) or constructed (e.g., geosynthetic layers or concrete) products. Depending on the proposed remedial design for a site, a cap can consist of a single sediment layer to isolate chemicals or can be designed as a multi-layered system consisting of a combination of sediment, geosynthetic, and armor layers.

Aggregate caps and Articulated Concrete Block Mat (ACBM) caps are two methods of containment that were described in the RATS. Placement of aggregate or ACBM caps in the channel may be combined with treatment and/or removal GRAs, which are discussed subsequently in this FS. To the extent that containment is a component of the remedy, the containment would be designed, monitored, and maintained in accordance with USACE and USEPA capping guidance (USEPA 1998). In situ capping, as discussed in USEPA guidance (USEPA 2005) is a demonstrated technology that has been selected by USEPA for sediment remediation sites across the United States (USEPA 1998; ITRC 2014).

Compared to removal-focused approaches, in situ capping has a disadvantage, in that caps require monitoring and maintenance to confirm their protectiveness. In addition, caps disrupt the benthic community. Aggregate caps cover the near surface benthos, potentially smothering it. ACBM caps create a concrete surface layer that is inhospitable to the benthic community for a period of time until future sediment deposition on top of the ACBM improves the surface substrate.

#### *4.2.3.1 Aggregate Caps*

Aggregate caps typically consist of a base layer for chemical isolation (typically sand-sized materials containing an adsorptive amendment as needed), and, as necessary, a filter and/or armor stone surface treatment. The surface armor layer of larger-sized rock prevents the loss of the chemical isolation layer during high flow events. A multi-layered cap consisting of chemical isolation, filter, and armor layers can be on the order of 2 or more feet thick, which can reduce the capacity of the channel to handle flood events. To maintain flood capacity when using an aggregate cap, excavation of the channel bed could be necessary prior to cap construction. As USEPA has described (USEPA 2005), excavation of sediments can result in the generation of dredging residuals and contaminant losses, as further discussed in Section 4.2.5 of this FS.

Required armor gradation is a function of the shear stresses that need to be resisted, which vary throughout the channel. Appendix B provides a preliminary evaluation of the size of armor that would be needed for the various SMAs, based on the channel configuration in that area and the worst-case shear stress that might occur during a design-level flood event. Table 4-3 provides a summary of the armor stone size, presented as  $d_{50}$  (the size beyond which at least 50 percent of the cap aggregates are larger) for each SMA, sized to resist a 100-year flow event. The minimum required armor thickness is often taken to be twice the  $d_{50}$  dimension. Based on the relatively thick armor layer requirements, aggregate caps were not carried forward in the FS as the assumed containment technology. However, more refined Site modeling may be performed during remedial design that might conclude that aggregate caps could be an appropriate technology in certain areas, and thus this technology has been retained for remedial design.

#### **4.2.3.2      *Articulated Concrete Block Mat Caps***

ACBM systems are used to provide erosion protection to underlying soil from the hydraulic forces of moving water. An ACBM system is comprised of a matrix of individual concrete blocks placed together to form an erosion-resistant revetment with specific hydraulic performance characteristics. The term “articulated” implies the ability of the matrix to conform to minor changes in the subgrade while remaining interconnected with geometric interlock and/or additional system components such as cables. Because of the low profile of the ACBM cap, excavation prior to ACBM placement is not assumed necessary for maintaining channel flood capacity. This advantage, as well as the fact that ACBM can often be placed in areas with limited equipment access, means that ACBM is an ideal choice for channels with limited flood capacity and/or access constraints, both of which are issues for Patrick Bayou.

Prior to ACBM installation, the cap footprint would be swept to remove large debris, and the banks of the channel would be prepared for anchoring the ACBM fabric. Preparation of the banks to allow construction access and anchoring would require a corridor approximately 20 to 30 feet wide that would be heavily disturbed during construction. For ACBM installation, the channel would first be lined with geotextile; where a treatment layer is a component of the cap, a Reactive Core Mat (RCM) layer could also be added. A RCM would be designed specifically for the Site, in consultation with suppliers and considering site-specific COC concentrations and other factors. A typical RCM consists of two layers of geofabric with a reactive media sandwiched between the layers.

Following placement of the geotextile liner (and RCM if used), ACBM fabric panels would be placed and secured in the channel, filled with concrete, and allowed to cure. The FS assumes that the ACBM will be placed bank to bank in the channel. Because of this, the SMA ACBM areas used in the cost estimates (Appendix C) are larger than the actual SMA delineation areas described in Table 4-2.

#### **4.2.4      *Treatment***

Treatment technologies can be an effective remedial action given the proper chemical properties of the Site-specific COCs and the physical constraints of the Site. The results of

the treatment technology review presented in the RATS (Anchor QEA 2013a, Appendix A), and the screening of in situ treatment technologies is summarized in this section.

In general, in situ sediment treatment technologies include immobilization of the COCs with the addition of sequestering agents (such as activated carbon [AC]), biological or chemical degradation, other forms of immobilization, and other potentially appropriate treatment technologies to reduce the toxicity, mobility, or volume (TMV) of sediment chemicals while leaving sediments in place. As discussed in the RATS (Anchor QEA 2013a), adsorbent amendments may be added to the sediment in situ to effectively reduce the mobility and bioavailability of the Site-specific COCs. Adsorbent materials may also be added to cap fill, as discussed in Section 4.3.3. The primary exposure medium of concern is the shallow sediment, within 10 cm of the sediment-water interface. The consideration of in situ treatment technologies is focused on the top 10 cm of sediment within the Site as this area includes the biologically active zone (see Section 2.5.2). However, as indicated above, the biologically active zone extents will be evaluated in more detail during remedial design.

Treatment as a response action could be accomplished with the addition of AC to sequester COCs, reducing surface water concentrations of PCBs and reducing bioavailability of COCs in porewater to address benthic risk and aquatic-dependent wildlife risk. For sediment cleanup projects, treatment with AC could be as direct application to the sediment surface, mixed into the sediments, mixed into a sand cover layer, or incorporated as a component of an isolation cap. Treatment can disturb the benthic community and cause short-term impacts, particularly where amendments are physically mixed or blended into the surface. In these cases, research indicates that within about a year following treatment, the benthic community would be expected to recover such that treated areas would be similar to untreated areas (Alcoa 2010). Treatment can be applied in a very targeted fashion, as needed, which will minimize impacts to benthos to the maximum extent practicable. The appropriate application method would need to be considered during the design phase to manage site-specific sediment properties, including consideration of whether low-density and/or near-neutral buoyancy sediments are present in the proposed treatment footprint.

For purposes of this FS, two different treatment options were assumed, depending on which area of the Site is being addressed. Option 1 assumes the use of a RCM, which is two



geotextile layers with a reactive medium between the geotextile layers. The RCM mat considered for this FS assumes dosage with granular AC at a mass per unit area of 0.4 pounds per square foot, although different dosages could be used if determined appropriate during remedial design. The RCM would be an underlayment to an ACBM isolation cap to provide enhanced protectiveness for the remedy by reducing the mobility and bioavailability of the COCs. For purposes of the FS, Option 2 assumes mixing, or “tilling” bulk AC into the upper 4 to 6 inches of surface sediments to address potential porewater issues associated with benthic risk and bioaccumulation of PCBs into food items consumed by aquatic-dependent wildlife. During remedial design, application methods, such as surface spreading without mixing, will also be considered where appropriate (such as low energy areas of the Site). In this option, a dosage of 5 percent by dry weight AC would be mixed into surface sediments using a tiller or auger system. Based on existing sediment data, the dry unit weight of sediments is on the order of 0.5 tons per cubic yard. Thus, for purposes of FS alternatives evaluation, the Option 2 treatment would entail dosing sediments 20 tons per acre, or 0.9 pounds per square foot AC. The actual dosage used would be determined during remedial design evaluations.

To evaluate treatment Option 1, chemical isolation modeling was performed as described in Appendix B to evaluate the long-term performance of a RCM in sequestering PCBs from the sediments. For the RCM product considered, near-surface porewater concentrations were predicted by the model to be reduced by over 99 percent for at least 100 years (Appendix B). This means that the RCM will result in immediate reductions in surface porewater concentrations and will also achieve significant long-term reductions. The actual dosage and reagent for a RCM would be determined during remedial design based on more detailed, SMA-specific modeling.

Treatment Option 2 includes mixing AC into surface sediments to reduce potential concentrations of mean PEL-Q chemicals in porewater to address benthic risk and bioaccumulation of PCBs. Treatment of sediments has been studied extensively, and is a well-documented approach to addressing hydrophobic organic COCs, which are the primary benthic risk drivers for this Site. A large body of literature documenting actual performance of treatment projects shows that AC can reduce bioavailability of hydrophobic organic COCs by more than 60 to 90 percent (Janssen and Beckingham 2013). Sediment treatment using a

blended cover, direct application and/or mixing of AC into sediments has been demonstrated on more than 25 projects over the last decade, including CERCLA projects (Patmont et al. 2014; Janssen and Beckingham 2013; Cornelissen et al. 2012; Cho et al. 2007, 2009; Beckingham and Gosh 2011; Menzie 2012; Norwegian Research Council 2011). Detailed guidance has been prepared for the assessment, design, and monitoring of sediment treatment remedies, including considerations regarding the long-term monitoring of treatment effectiveness in reducing bioavailability (ITRC 2014). If treatment is selected as a remedial technology for the Site, a bench-scale treatability study may be performed to evaluate the appropriate reagent type and dosage to optimize treatment effectiveness.

#### **4.2.5 Removal**

Removal, if selected as a component of the preferred alternative, would only be used to the extent necessary to offset any loss of channel flood capacity from capping (i.e., if a thick aggregate cap were selected as the remedy). As discussed in the approved RATS (Anchor QEA 2013a), virtually all dredging projects result in some degree of resuspension, release, and residuals despite use of Best Management Practices (BMPs; USEPA 2005; NRC 2007; USACE 2008a; Bridges et al. 2010). Empirical data from numerous sediment remediation projects indicate that residual contamination is a common occurrence that frequently limits the overall protectiveness of removal (Patmont and Palermo 2007; NRC 2007). USEPA guidance on sediment remediation states “there should not be necessarily a presumption that removal of contaminated sediments from a water body will be necessarily more effective or permanent than capping or MNR” (USEPA 2005). Further, as described in the RATS and in Section 2 of this FS, the subsurface profile of Site-specific COC concentrations increase with sediment depth to approximately 4 feet beneath the mudline. Below the soft sediment is a relatively stiff contact with the Beaumont clay formation in the downstream portion of the channel; a hard substrate contact underlies the concrete-lined portion of the channel. Thus, a removal-based remedial alternative would require moving a large volume of relatively clean sediment to reach sediment with higher concentrations of COCs. Even at a removal depth of 5 to 6 feet, the concentration of COCs in dredge residuals would be at least as great as current surface sediment concentrations and would require the placement of a residuals cover or cap. Finally, research indicates that sites like Patrick Bayou

with hard bottom conditions and/or debris have higher potential releases during dredging (USACE 2008a).

Construction-related releases associated with dredging increase the short and long-term risk associated with removal by resuspending COCs into the water column; redistribution of impacted sediment downstream and/or offsite would result in a remedy that is less protective than remedial alternatives that are less intrusive. Post-construction monitoring data have shown that dredging-based cleanup remedies can increase fish tissue concentration of contaminants, even several years following completion of dredging (e.g., at the Commencement Bay and Duwamish Waterway Superfund Sites; Patmont et al. 2013). To the extent that dredging-related releases occur, they reduce the overall effectiveness of a dredging remedy and under USEPA sediment remediation guidance (USEPA 2005), which is a consideration during the comparative net risk analysis of the remedial alternatives under consideration.

#### *4.2.5.1 Removal Best Management Practices*

Operational and engineering controls (rigid and flexible barriers) are often used to the extent practicable to mitigate potential releases. However, because the Site is part of a stormwater drainage system, the implementation of controls in the channel would likely be extremely challenging. Rigid controls would block stormwater flows and could result in flooding upstream, a situation likely very much unacceptable to the City of Deer Park and upstream residents and businesses. If low water levels or high flow velocities occur in the channel, which, as described in the STM Report (Anchor QEA 2011c) are common at the Site, flexible barriers, like turbidity curtains, will likely be ineffective in controlling releases. Turbidity curtains are considered ineffective at current velocities greater than approximately 0.5 meters per second (Francingues and Palermo 2005).

In addition to these Site-specific considerations, case studies on engineering controls have shown that they:

- May have limited effectiveness
- Are subject to leakage

- Accumulate resuspended sediments at the base of the barrier, which is impossible to completely capture
- Have other technical limitations (USACE 2008b; Anchor 2005; Anchor QEA and Arcadis 2010)

Further, use of rigid barriers can result in unintended consequences such as concentration of dissolved-phase chemicals inside the barrier, localized scour adjacent to the barrier, and/or the spread of contaminants during structure removal (Ecology 1995; Konechne et al. 2010; Anchor QEA and Arcadis 2010). Flexible barriers, such as turbidity curtains, will suffer from suspended sediment losses because these types of barriers are not truly watertight (USACE 2008a; USACE 2008b; Francingues and Palermo 2005; Anchor 2005; Anchor QEA and Arcadis 2010).

#### **4.2.5.2 Disposal**

The RATS (Anchor QEA 2013a) retained both upland confined disposal facility (CDF) and landfill disposal as options for the selected alternative. In development of the alternatives presented in this FS, there have been no changes to the disposal considerations presented in the RATS (Anchor QEA 2013a).

ACBM capping would require a debris removal phase prior to cap placement; the debris would be shipped offsite for landfill disposal. If excavation were necessary to accommodate a cap, excavated sediment could potentially be disposed of either onsite in a constructed CDF (such as an inoperative stormwater pond), or offsite in a landfill. Disposal decisions would be made during the remedial design.

### **4.3 Assembly of Remedial Alternatives**

Remedial alternatives were developed to evaluate candidate methods for achieving the RAOs. Specifically:

- The fate and transport model (Appendix A) was used to assess the effectiveness of the remedial alternatives in reducing concentrations of PCBs in surface water to below the RAO of 8.2 ng/L. Reductions in surface water PCB levels also will address the wildlife RAO (see Section 3.3).

- SMAs were designated to evaluate the effects on surface water quality, benthic risk, and risks to aquatic-dependent wildlife from performing a remedial action in these areas, as described in Section 4.1.

The locations of the SMAs are shown on Figure 4-1. The results of the fate and transport and MNR modeling are discussed in Section 5 in the context of the effectiveness of the remedial alternatives in reducing the concentrations of PCBs in surface water and in reducing benthic risk and aquatic-dependent wildlife to acceptable levels within a reasonable time frame, which, for purposes of FS evaluations, is considered to be 10 years.

The alternatives are presented below.

#### **4.3.1 Alternative 1 – No Further Action**

The No Further Action alternative serves as the baseline of comparison for the other remedial alternatives. The NCP requires the development and evaluation of the No Further Action alternative (40 CFR 300.430(e)(6)).

#### **4.3.2 Alternative 2 – Monitored Natural Recovery**

Alternative 2, MNR, relies on natural processes to reduce benthic risks to acceptable levels, to meet background conditions, and to address the aquatic-dependent wildlife RAO while monitoring recovery over time to verify remedial success. Modeling, presented in Appendix A, projects that the ongoing sedimentation at the Site will reduce PCB concentrations (and thus mean PEL-Q and toxicity) in surface sediment and PCBs in the water column over time.

Alternative 2 would be implemented under an Adaptive Management framework and would generally include the following components:

- Data collection, and evaluation of natural recovery, including evaluation of the need for and limits of remedial actions

- The data collection will also be used to develop RAOs for mercury and PCDD/PCDF TEQ in surface water and to assess the effectiveness of Alternative 2 to achieve these RAOs<sup>16</sup>
- Continued sampling and analysis during the natural recovery period, including evaluation of recovery effectiveness
- Maintenance of the existing institutional, security, and physical access controls, which include restrictions to on-site access by fencing, use restrictions, maintenance agreements, and facility security and surveillance
- Enhancements to existing Site institutional controls (described in Section 4.2)

Figure 4-2 presents a process flow diagram for the adaptive management framework that would be used, including the sequence of sampling, evaluation, and decisions that would be made under all alternatives.

The fate and transport model uses an empirically defined PCB source to represent observed PCB loads in the concrete-lined channel; for purposes of predicting natural recovery, it is assumed that this source would not further attenuate (see Appendix A). Based on this conservative assumption, the model simulation of Alternative 2 predicts that more than 19 years of natural recovery would be required before water column PCB concentrations decrease below the surface water RAO of 8.2 ng/L.<sup>17</sup> However, water column PCB data collected in 2014 demonstrate that PCB levels are much lower in 2014 when compared to 2009 and 2011 levels (see Section 2.6). It is difficult to account for this reduction in the model parameters, and similar reductions could be observed in the future. This is a key area of uncertainty for the purposes of developing remedial alternatives for the FS, and reducing that uncertainty should be considered as part of the remedial design and adaptive management process for the Site.

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<sup>16</sup> Additional data collection to establish RAOs for mercury and PCDD/PCDF TEQs is not included in the cost estimate for this alternative due to the uncertainty in the data that will be required. The data requirements will be established during the design phase.

<sup>17</sup> Nineteen years is the length of the long-term future model simulation. Predicted water column PCB concentrations are still higher than the PCB surface water RAO of 8.2 ng/L at the end of that simulation period.

To address the uncertainty in attenuation and the potential impacts of this uncertainty on natural recovery rates, an empirical evaluation of natural recovery was also conducted based on the water column data (Appendix E). This analysis indicates that water column PCB concentrations decreased at a half-life of approximately 3 to 6 years between 2009, 2011, and 2014. If these observed rates of decline continue into the future, it is expected that water column PCB concentrations would decrease below the surface water RAO within 9 to 19 years (depending on location; Appendix E) by natural recovery processes alone. Thus, monitoring would be used to evaluate progress towards such predictions as part of this alternative.

To evaluate natural recovery for addressing benthic risk and the aquatic-dependent wildlife RAO, a sediment chemistry based approach was also evaluated for Alternative 2 (see Appendix A). In the BERA Report (Anchor QEA 2013c), toxicity in Site sediments was predicted using the mean PEL-Q model, as described in Section 2.6 of this FS. Sediment half-life estimates based on PCB fate modeling, presented in Appendix A, were used to project reductions in mean PEL-Q values over time. Based on this evaluation, the natural recovery at most stations would achieve the benthic RAO within 10 years or less. However, the benthic RAO is not met within 10 years at 17 discrete locations (PB-001.1, PB-016A, PB-018, PB-026, PB-032, PB-034, PB-036, PB-037, PB-041A, PB-043, PB-044A, PB-047.1, PB-053A, PB-059.1, PB-063.1, PB-069, and PB-081; see Table 4-1), conservatively assuming no action has been taken in SMA-1 to address the PCB surface water RAO.<sup>18</sup>

In this alternative, it is expected that MNR monitoring would be conducted for surface water and sediment chemistry (as described in Section 4.2) at various locations throughout the Site to evaluate the following:

- Confirm the observed declines in surface water and sediment concentrations continue into the future
- Confirm the benthic RAO is being met

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<sup>18</sup> For Alternatives 3 and 4, consistent with the Adaptive Management approach employed throughout the RI/FS, the evaluation of natural recovery for benthic risk assumes that the first step in the remedial process is remedial action at SMA-1 to address the PCB surface water RAO. In addition to addressing the PCB surface water RAO, remedial action in SMA-1 would also be expected to accelerate natural recovery; thus, fewer locations are identified under Alternatives 3 and 4 where the benthic risk RAO is not met within 10 years. See Table 4-1.

This alternative also includes maintenance and enhancement of the existing institutional controls and restrictions (e.g., surveillance, fencing) to site access. Figure 4-3 depicts a plan view for Alternative 2. The estimated cost for this alternative is \$710,000 (Appendix C).

#### **4.3.3 Alternative 3 – Monitored Natural Recovery, SMA-1 Capping, and SMA-2 through SMA-9 Treatment**

Alternative 3 would be implemented using an Adaptive Management framework, and it would generally include the following components:

- Pre-design surface water and sediment data collection, model recalibration, refinement of SMA extent, and evaluation of natural recovery, including evaluation of the need for and limits of remedial actions in SMA-1 through SMA-9
- The additional data collection will also be used to develop RAOs for mercury and PCDD/PCDF TEQ in surface water and to assess the effectiveness of Alternative 3 to achieve these RAOs<sup>19</sup>
- Capping of SMA-1 with ACBM and RCM if surface water PCB concentrations do not continue to decline at a rate consistent with that observed between 2009, 2011, and 2014
- Treatment with AC of surface sediments in SMA-2 through SMA-9 if the target mean PEL-Q is not projected to be achieved within 10 years based on model recalibration results
- MNR and associated monitoring for those areas where MNR is suitable based on pre-design data collection results
- Monitoring and maintenance of capping and treatment remedies, if implemented
- Maintenance of the existing institutional, security, and physical access controls, which include restrictions to on-site access by fencing, use restrictions, maintenance agreements, and facility security and surveillance
- Enhancements to existing Site institutional controls (described in Section 4.2)

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<sup>19</sup> Additional data collection to establish RAOs for mercury and PCDD/PCDF TEQs is not included in the cost estimate for this alternative due to the uncertainty in the data that will be required. The data requirements will be established during the design phase.



Consistent with the adaptive management approach for this Site, pre-design data collection, model recalibration, refinement of SMA extent, and evaluation of ongoing natural recovery would be conducted based on baseline water column, porewater, and sediment chemistry pre-design data collected following the feasibility study. In the event that the pre-design baseline sampling and recovery model re-evaluation does not indicate acceptable natural recovery (i.e., indication of not meeting the PCB surface water or benthic RAO within about 10 years), capping of SMA-1 and/or treatment in SMA-2, -3, -4, -5, -6, -7, -8 and/or SMA-9 would be implemented, as appropriate.

For FS purposes, it has been assumed that ACBM would be the technology used for capping; however, aggregate caps may be determined appropriate and selected for certain areas in SMA-1, as determined during remedial design. For treatment, addition of AC into surface sediments has been assumed using augers, tines, or similar technology.

The assessment presented in Appendix B assumes that two layers of RCM underlayment could be necessary due to uncertainty in the source loading mechanism of PCBs in SMA-1. The actual thickness, granular AC dosage, and design of the RCM would be determined during remedial design. As shown on Figure 4-4, capping in SMA-1 would involve installing ACBM with an underlayment of AC RCM in the channel. SMA-1 extends for a length of approximately 700 feet along the bayou channel, from Station PB-075 to PB-082. With bank-to-bank widths ranging from approximately 50 to 100 feet, the surface area of capping is 58,200 square feet (1.33 acres) for this alternative. However, the actual footprint and size of SMA-1 would be more thoroughly delineated during remedial design by collecting additional sediment, surface water, and porewater data, as appropriate, and revisiting the modeling if necessary.

For the purpose of this FS, treatment of SMA-2 through SMA-9 involves mixing AC into the top 4 to 6 inches of surface sediments. The combined surface area of these SMAs is approximately 6.66 acres.<sup>20</sup> With bank-to-bank widths typically on the order of 100 to 150 feet (and in the case of SMA-4, a bank-to-edge distance of 250 feet), only a portion of the

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<sup>20</sup> While this represents the acreage based on Thiessen polygons, the FS cost development adds a 20 percent contingency to this area to account for engineering design considerations and potential changes to lateral extents as may be determined by pre-design sampling.

treatment area could be addressed with land-based equipment such as a long-reach excavator. Treatment areas located more than approximately 50 feet from the shoreline would need to be addressed using a shallow-draft, barge-mounted machine equipped with a mixing tool such as an auger or tines. Figure 4-5 depicts conceptual treatment implementation concepts, including mixing of shallow sediments from the bank and from barge-mounted equipment. Figure 4-5 also depicts concepts for surface application of amendments, which will be considered during remedial design as an alternate approach that minimizes sediment disturbance and may be applicable for low-energy areas of the Site.

The actual treatment area footprint would be more thoroughly delineated using pre-design sediment and surface water data and updating and refining the MNR modeling as appropriate.

Costs for Alternative 3 were developed for the FS based on the following assumptions:

- Demolition of the concrete-lined portion of the existing channel is not necessary and contractors would be able to install the ACBM over the existing concrete.
- SMA-1 would not require dredging prior to installation of ACBM because of the low profile of the ACBM.
- The ACBM will be placed from one TOB to the other TOB in the channel.
- The RCM would be placed at the base of the channel but not along the banks.
- There are no channel or TOB access or structure restrictions for installation of the cap.
- The railroad (PTRA) would allow placement of the cap adjacent to the railroad culvert.
- Concrete trucks and/or concrete pumps would have sufficient access to the channel.
- Treatment would be performed either from the bank using a long-reach excavator or from a shallow-draft, barge-mounted machine equipped to mix the AC into the top 6 inches of sediment.

Based on the production rates provided by ACBM contractors, as well as prior project experience and pilot studies of in situ treatment, the duration of construction for this alternative is estimated to be 5 to 7 months. This alternative is estimated to require approximately 4,600 hours of heavy equipment operations.

Using construction worker injuries and fatality rates published by the U.S. Department of Labor (USDOL; USDOL 2011), Alternative 3 is estimated to result in approximately 0.27 lost time injuries and approximately 0.001 fatalities as a result of construction (Table 4-4).<sup>21</sup>

The cost of this alternative is estimated to be approximately \$6.7 million (Appendix C).

#### **4.3.4 Alternative 4 – Monitored Natural Recovery and SMA-1 through SMA-9 Capping**

Alternative 4 would be implemented using an Adaptive Management framework and would generally include the following components:

- Pre-design data collection and natural recovery evaluations as described for Alternative 3
- The additional data collection will also be used to develop RAOs for mercury and PCDD/PCDF TEQ in surface water and to assess the effectiveness of Alternative 4 to achieve these RAOs<sup>22</sup>
- Capping based on the results of pre-design sampling and MNR evaluations as follows:
  - SMA-1: capping with ACBM and a RCM underlayment, and MNR
  - SMA-2 through SMA-9: capping with ACBM but no RCM underlayment, and MNR
- MNR and associated monitoring for those areas where MNR is suitable based on pre-design data collection results
- Monitoring and maintenance of containment and treatment remedies, if implemented
- Maintenance of the existing institutional, security, and physical access controls as described for Alternative 3
- Enhancements to existing Site institutional controls and warning signs as described in Alternative 3

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<sup>21</sup> These numbers are not intended to represent actual injuries or fatalities expected (e.g., less than one fatality) but are useful for comparative purposes between alternatives to evaluate the potential impacts of alternatives on worker health and safety.

<sup>22</sup> Additional data collection to establish RAOs for mercury and PCDD/PCDF TEQs is not included in the cost estimate for this alternative due to the uncertainty in the data that will be required. The data requirements will be established during the design phase.

The ACBM cap will effectively eliminate an exposure pathway between benthos and surface sediments because it creates a hard concrete barrier on the sediment surface. Because SMA-2 through SMA-9 were identified as benthic risk areas, the use of ACBM alone (without a RCM underlayment) is considered an appropriate capping technology to achieve RAOs for these SMAs. The use of this technology also will address the aquatic-dependent wildlife RAO because it will reduce the bioavailability and therefore bioaccumulation of PCBs.

Anchoring of the ACBM material in SMA-4 could require placing the cap from bank to bank, even though the edge of this SMA is located mid channel. Thus, for example, the cost estimate for capping using ACBM in SMA-4 assumes approximately 3.5 acres of ACBM would be needed to cover this 1.6-acre area. For capping SMA-2 through SMA-9, the Thiessen polygon area of 6.66 acres (Table 4-2) is increased to 13.77 acres when bank-to-bank capping, and a 20 percent contingency on areas is included, as reflected in the FS costs (Appendix C). It may be possible to terminate the edge of the ACBM cap beneath the water mid-channel, or it may be more cost-effective to use a granular cap for certain SMAs. If the pre-design sampling and natural recovery evaluation indicate that capping is necessary, the actual details for implementing this cap in all SMAs (including selection of capping technology and cap footprint limits) would be determined during remedial design. Figure 4-6 presents a plan view of Alternative 4. Figure 4-7 depicts typical ACBM details.

Based on the production rate from ACBM contractors and prior projects, the duration of construction for this alternative is estimated to be 5 to 7 months (Table 4-4). This alternative is estimated to require approximately 4,500 hours of heavy equipment operations.

Using construction worker injuries and fatality rates published by the USDOL (2011), Alternative 4 is estimated to result in approximately 0.25 lost time injuries and approximately 0.001 fatalities as a result of construction (Table 4-4).

Costs for Alternative 4 were developed for the FS based on the following assumptions:

- Demolition of the concrete-lined portion of the existing channel is not necessary and that contractors would be able to install the ACBM over the existing concrete
- None of the SMAs would require dredging prior to installation of the ACBM because of the low profile of the ACBM

- The ACBM will be placed from one TOB to the other TOB in the channel for anchoring requirements
- RCM would only be used in SMA-1; The RCM would be placed at the base of the channel but not along the banks
- There are no channel or TOB access or structure restrictions for installation of the cap
- The railroad (PTRA) would allow placement of the cap adjacent to the railroad culvert
- Concrete trucks and/or concrete pumps would have sufficient access to the channel

The estimated cost for this alternative is approximately \$13 million.

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## 5 DETAILED ANALYSIS OF REMEDIAL ALTERNATIVES

The detailed evaluation of remedial alternatives is based on consideration of the following criteria, as required by the NCP, 40 CFR Section 300.430(e)(9):

1. Overall protection of human health and the environment
2. Compliance with ARARs
3. Long-term effectiveness
4. Reduction of TMV
5. Short-term effectiveness
6. Implementability
7. Cost
8. State acceptance
9. Community acceptance

The first two criteria, overall protection and compliance with ARARs, are identified as threshold criteria in 40 CFR Section 300.430(f). Remedial alternatives must address the threshold criteria to be selected as the final remedy, although ARAR waivers are considered in some circumstances. The next five criteria are identified as primary balancing criteria. The comparative analysis in Section 6 considers the anticipated performance of the remedial alternatives relative to these balancing criteria. The final two criteria, identified as modifying criteria, are considered by USEPA in preparing the Record of Decision based on consultation with the State environmental agency and a review of public comments received in response to the FS and the proposed plan. As such, State and community acceptance are not considered directly in this FS and will be evaluated by USEPA separately after public comments are received on the proposed plan. Each threshold and balancing criterion is briefly defined below:

- Overall protection is an evaluation of whether the remedial alternative can adequately protect human health and the environment. This may be expressed as an assessment of whether the remedial alternative addresses all of the RAOs, which are identified and described in Section 2.
- Compliance with ARARs is an evaluation of whether the remedial alternative addresses or can be implemented in compliance with all of the ARARs, which are identified in Table 3-2.

- Long-term effectiveness is an evaluation of the ability of the remedial alternative to reliably maintain protection of receptors.
- Reduction of TMV is an evaluation of the degree to which treatment or recycling of affected media is used to reduce the toxicity, mobility or volume of contaminated media, particularly principal threats.
- Short-term effectiveness is an evaluation of both the time required for the remedial alternative to achieve full protection and the degree to which potential risk to human health and the environment is increased during implementation of the remedy, considering measures that may be used to mitigate short-term risks. The short-term effectiveness evaluation also includes an evaluation of the sustainability of the remedial alternative in conformance with the USEPA Region 6 Clean and Green Policy (USEPA 2009).
- Implementability is an evaluation of factors that may impede the implementation of the remedy, considering technical and administrative factors. Technical factors include consideration of whether the remedial alternative involves the use of well demonstrated technologies, readily available equipment and materials, and whether any physical conditions of the Site that may impede implementation. Administrative factors include consideration of whether implementation of the remedial alternative might be impeded by the need to obtain approvals from nearby landowners or public agencies.
- Cost is an evaluation of construction and long-term operation, maintenance, and monitoring costs. A present-worth cost analysis is used to evaluate the total cost of remedial alternatives.
- Assessment of State concerns may not be completed until comments on the RI/FS are received but may be discussed, to the extent possible, in the proposed plan issued for public comment. The State concerns that shall be assessed include the following:
  - 1) The State's position and key concerns related to the preferred alternative and other alternatives, and
  - 2) State comments on ARARs or the proposed use of waivers.
- Community acceptance assessment includes determining which components of the alternatives interested persons in the community support, have reservations about, or oppose. This assessment may not be completed until comments on the proposed plan are received.

Mercury and PCDD/PCDF TEQ surface water quality were not included in the detailed assessment or comparison of alternatives. Although the TSWQS human health criterion has been identified as an ARAR by USEPA, additional data are required to establish RAOs for these chemicals in surface water, assess baseline conditions, and evaluate potential effectiveness of remedial alternatives identified in Section 4 to meet the RAOs. Data collected during the design phase will be used to address these needs and, if necessary, support design modifications to the alternative under an adaptive management framework.

The following section describes the individual analyses for each of the alternatives. Table 5-1 summarizes the key discussion points from this section for each of the evaluation criteria.

## **5.1 Alternative 1 – No Further Action**

### **5.1.1 Threshold Criteria**

#### *5.1.1.1 Overall Protection of Human Health and the Environment*

Existing data indicates that ongoing deposition of relatively clean sediment is occurring at the Site independent of any specific actions by the Respondents, which will continue to reduce surface water concentrations of PCBs, and surface sediment concentrations of PCBs, PAHs, lead, and BEHP over time. However, Alternative 1 does not meet the threshold criterion of overall protection of human health and the environment because it does not provide for monitoring to evaluate the progress of natural recovery. Without monitoring, there would be no way to verify that surface water quality objectives are being met over time, or that benthic and aquatic-dependent wildlife risks are decreasing to acceptable levels, and overall protectiveness of the remedy could not be assessed.

#### *5.1.1.2 Compliance with ARARs*

Compliance with ARARs was not assessed for Alternative 1 because it does not meet the threshold criterion of overall protection of human health and the environment.



### **5.1.2 Balancing Criteria**

Because this alternative does not meet threshold criteria, the balancing criteria were not evaluated in this FS.

## **5.2 Alternative 2 – Monitored Natural Recovery**

### **5.2.1 Threshold Criteria**

#### **5.2.1.1 Overall Protection of Human Health and the Environment**

Alternative 2 potentially meets the threshold criterion of protection of human health and the environment through MNR over time; however, natural recovery rates would need to be periodically assessed by collecting additional data and evaluating actual natural recovery trends for the Site to ensure the recovery time frame was acceptable. Deposition of relatively clean sediments into Patrick Bayou would provide isolation of impacted sediments from surface water, reducing water column concentrations. Analysis of existing surface water data indicate reductions in PCB concentrations between 2009 and 2014, and reductions in PCB flux may continue into the future so that the PCB surface water RAO could be met. Potential benthic and aquatic-dependent wildlife risks are also expected to be reduced over time, likely to acceptable levels within an acceptable time frame over the majority of the Site. Alternative 2 includes the monitoring necessary to evaluate and assess the rate of MNR, which allows for an adaptive management approach wherein future actions would be considered depending on the effectiveness of MNR in achieving RAOs within a reasonable time frame.

The analytic model presented in Appendix E indicates that the PCB surface water RAO of 8.2 ng/L would likely be met throughout the Site within 9 to 19 years, (subject to uncertainty considerations for this particular model) if the rates of decline for PCBs in surface water remain similar to those observed between 2009 and 2014. This uncertainty would be addressed through pre-design sampling, which would be used to assess the validity of the FS modeling.

The chemical fate model presented in Appendix A, coupled with the baseline mean PEL-Q and toxicity data, suggests that most of the Site would achieve acceptable benthic and aquatic-dependent wildlife risk through ongoing natural recovery within 10 years; however,

some areas of the Site may have unacceptably long recovery periods. To address uncertainty, benthic risk natural recovery would need to be assessed through additional data collection and natural recovery evaluations. These evaluations would be used to assess whether additional action(s) is/are warranted through an adaptive management process.

### **5.2.1.2 Compliance with ARARs**

Alternative 2 would not result in construction impacts or other changes to baseline conditions that would trigger any action-, chemical-, or location-specific ARARs identified in Table 3-2. Because no construction activity is included in this alternative, there are no substantive permit conditions that would need to be met.

## **5.2.2 Balancing Criteria**

### **5.2.2.1 Long-term Effectiveness**

Analytic MNR Modeling conducted for this FS (Appendix E) indicates that the PCB surface water RAO would be met throughout the Site after 9 to 19 years due to natural recovery processes. The effectiveness would be monitored through periodic sampling of the water column to confirm that the PCB surface water RAO is being met.

The ability of natural recovery alone to meet benthic risk RAOs is uncertain. Modeling presented in Appendix A indicates that most of the Site would achieve acceptable benthic risk within 10 years due to natural recovery. However, approximately 16 acres encompassing 17 surface sediment stations (Table 4-1), as described in Section 4.3.2, may have unacceptably long recovery periods. Uncertainty in natural recovery to address benthic risk would need to be assessed by collecting additional data and updating and refining the natural recovery evaluations.

MNR has been demonstrated to be a reliable process that is effective in the long term based on monitoring conducted at other sediment cleanup sites (USEPA 2005).

### *5.2.2.2 Reduction of Toxicity, Mobility, or Volume*

Alternative 2 does not take specific active measures to reduce TMV of COCs. The toxicity of surface sediments will naturally decline over time due to deposition of relatively clean sediments within Patrick Bayou.

### *5.2.2.3 Short-term Effectiveness*

Alternative 2 ranks uncertain for short-term effectiveness. While analytic MNR modeling (Appendix E) predicts that natural recovery could take on the order of 9 to 19 years to achieve the PCB surface water RAO, natural recovery to address benthic risk could potentially require unacceptably long time frames. Natural recovery modeling is subject to uncertainty that would be addressed through pre-design sampling. Longer time frames to achieve RAOs are balanced by negligible short-term impacts associated with implementing this alternative; benthic, water, and sediment sampling can be performed with very low risk to workers and would have negligible short-term impacts on water and air quality. Noise impacts associated with Alternative 2 are also considered negligible.

### *5.2.2.4 Implementability*

Alternative 2 is highly implementable. This alternative requires periodic monitoring through benthic, water, and sediment sample collection, which has already been performed in support of the RI/FS. There are minimal anticipated implementability challenges associated with this alternative, which are limited to the coordination and safety issues associated with sample collection adjacent to active industrial operations bordering Patrick Bayou.

### *5.2.2.5 Cost*

Alternative 2 entails periodic sampling of benthos, water, and sediment. The estimated net present value (NPV) cost for Alternative 2 is \$710,000 as detailed in Appendix C.

### **5.3 Alternative 3 – Monitored Natural Recovery, SMA-1 Capping, and SMA-2 through SMA-9 Treatment**

#### **5.3.1 Threshold Criteria**

##### *5.3.1.1 Overall Protection of Human Health and the Environment*

Alternative 3 meets the threshold criterion of overall protection of human health and the environment because it is based on the same use of MNR as Alternative 2, and allows for capping of SMA-1 if warranted to achieve the PCB surface water RAO and treatment of SMA-2 thorough SMA-9 to reduce benthic and aquatic-dependent wildlife risks, if/as needed. By capping SMA-1, potential sources of PCBs to the water column in that upstream area are effectively eliminated. Treatment of surface sediments in SMA-2 through SMA-9, if necessary, would reduce bioavailability of secondary ICs and reduce benthic and aquatic-dependent wildlife risk to acceptable levels. Modeling presented in Appendix A indicates that capping SMA-1 is expected to achieve the PCB surface water RAO of 8.2 ng/L throughout the Site within 6 years following completion of capping.

Treatment of benthic risk areas is expected to reduce bioavailability of ICs relatively quickly. Field scale studies conducted on the Grasse River demonstrated that within 3 years after placement of AC into sediments, PCB bioavailability was reduced by more than 90 percent (Patmont et al. 2014). ITRC guidance recognizes that treatment can provide “near-immediate reduction of the bioavailable fraction of contaminants” with minimal impacts to habitat (ITRC 2014), although the mixing of treatment reagents into surface sediments would be expected to temporarily eliminate the benthic community, requiring up to a year following construction before the benthic community re-establishes itself.

##### *5.3.1.2 Compliance with ARARs*

Implementation of Alternative 3 would involve the construction of a low-profile cap within a portion of the Site and treatment of benthic risk SMAs. Reduction of PCB concentrations in surface water would address the PCB surface water RAO and also reduce risk to aquatic-dependent wildlife. The construction of the cap and addition of AC to sediments would trigger compliance with CWA Section 404(b)(1), Rivers and Harbors Act Section 10, and other ARARs related to surface water quality. Alternative 3 is also expected to meet the substantive requirements of the ARARs in Table 3-2 through implementation of BMPs and

agency documentation and coordination activities. Construction of the cap would require the placement of approximately 1.6 acres of ACBM, a low-profile cap that is expected to have negligible impact on the flood capacity of Patrick Bayou (i.e., the impact of the cap would be immeasurable within the predictive capability of available flood models). If the cap in SMA-1 is required, there would be moderate impacts on habitat quality, as the banks of the area to be capped are already channelized with a concrete-lined surface, and thus the benthic community impacts would be limited to the bottom of the channel. Treatment of approximately 7.9 acres of sediment can be accomplished with a significant but temporary impact to habitat in the treatment footprint; recovery from these impacts would be expected to occur within approximately a year following completion of treatment.

### **5.3.2 Balancing Criteria**

#### **5.3.2.1 Long-term Effectiveness**

Alternative 3 includes capping, if necessary, which is a robust technology that has been demonstrated to be effective in the long term at many sediment cleanup sites and has a well-established design process (USEPA 1998). Modeling conducted for this FS (Appendix A) indicates that the PCB surface water RAO would be met throughout the Site within 6 years after completion of construction for Alternative 3. Treatment of benthic risk areas, if necessary, is expected to reduce bioavailability very quickly (within less than 3 years based on field scale demonstrations) in surface sediments, and it may result in permanent<sup>23</sup> sequestration of key risk ICs. As described for Alternative 2, MNR has been demonstrated to be a reliable process that is effective in the long term based on monitoring conducted at other sediment cleanup sites (USEPA 2005). Because treatment can be effective in relatively short time frames, there is little risk for an erosion event to occur before treatment is complete. The STM predicts maximum net erosion of less than 2 cm (less than 1 inch) for a 2-year recurrence interval storm (Anchor QEA 2011c). Because treatment would be conducted within the upper 6 inches (15 cm), treatment media would still be present even

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<sup>23</sup> Because treatment is a relatively new approach to contaminated sediments, there is some uncertainty about the long-term performance of treatment remedies. There is no case history of monitoring that documents the long-term effectiveness of sediment treatment. Nonetheless, recent literature supports the use of treatment as a sediment remedial technology, and treatment is expected to be effective in the long term for Patrick Bayou.

following an erosion event. Once treatment processes are complete, erosion of the treated media is not a concern.

Alternative 3 is highly compatible with adaptive management strategies that would facilitate modifying the monitoring plan and schedule and/or allowing for future actions to be taken if the results of the monitoring indicate additional remedial action is required. For example, if treatment were implemented to address benthic risk, treated areas could potentially be re-addressed in the future, if necessary (for example, by adding additional amendments into sediments or capping with ACBM), if post-treatment monitoring indicated that benthic risk reductions were not being achieved quickly enough.

#### *5.3.2.2 Reduction of Toxicity, Mobility, or Volume*

Alternative 3 provides for reduction in mobility of PCBs by including a treatment layer within the cap in SMA-1 and treatment of surface sediments in benthic risk areas, if implemented. Appendix B describes the modeling performed assuming the use of a granular AC layer in the form of a RCM underlayment to the ACBM armored cap. Modeling indicates that this treatment is expected to reduce near-surface porewater concentrations of PCBs by 99.8 percent over 100 years. Case studies of AC treatment of sediments demonstrate potential PCB concentration reductions of more than 99 percent and PCB bioavailability reductions of more than 90 percent in treated sediments (Patmont et al. 2014).

#### *5.3.2.3 Short-term Effectiveness*

Short-term risks to the community, ecological receptors, or workers associated with the implementation of this remedial alternative include the following:

- Potential turbidity (manageable) associated with cap construction
- Potential turbidity (manageable) during treatment
- Moderate benthic impacts in ACBM capping areas, which would require several years of sediment deposition onto the surface of the ACBM before benthic recovery could occur
- Significant but temporary benthic impacts in treatment areas due to mixing of near surface sediments, which would require up to a year following treatment before benthic recovery would occur

- Localized impacts to the banks of Patrick Bayou where construction equipment would be staged and where the ACBM cap would be anchored
- Potential accidents during construction
- Air emissions from construction equipment
- Noise impacts from the work
- Potential facility impacts during the estimated 5- to 7-month duration of the work

Based on the case history of implementing ACBM capping and treatment at other sites, water quality impacts associated with turbidity during debris removal activities, cap construction, and mixing of treatment reagents into surface sediments would be expected to be manageable within Patrick Bayou.

Air quality impacts are expected to be moderate for this alternative, associated with equipment operations and truck traffic. An estimated 4,600 hours of heavy equipment operations would be required to complete the project. Equipment and vehicle emissions of hydrocarbons and nitrogen oxides lead to the generation of smog, including ozone, which is a particular concern in Harris County; this County has been classified by USEPA as a “severe” non-attainment area for the 1997 8-hour ozone standard and a “marginal” non-attainment area for the 2008 8-hour ozone standard. Moreover, Harris County has not been classified in the 2012 National Ambient Air Quality Standard (TCEQ 2013) for fine particulate matter (PM<sub>2.5</sub>).

Community impacts associated with truck traffic are expected to be negligible considering that the Site is located in an industrial area.

Health and safety impacts were assessed using USDL statistics for accidents and fatalities for the “construction” labor code category, based on the estimated total labor hours required for the alternative. Alternative 3 would result in an estimated 0.027 lost-time injuries and 0.0011 fatalities. While both of these safety statistics are below 1.0, suggesting the likelihood for injury or fatality is very low, they are useful for comparison purposes to the safety-related issues of the other alternatives. Worker safety issues would be addressed during remedial design, and measures would include, at a minimum, development of detailed health and safety plans to help mitigate these risks.

#### 5.3.2.4 *Implementability*

Capping using ACBM and RCM products has been successfully demonstrated at similar sites. The shallow water and relatively narrow channel should provide for relatively straightforward deployment of the textiles. There are several areas with difficult access, such as pipeline crossings and adjacent to bridge foundations, where hand labor would be required to deploy the fabric prior to pumping concrete into the ACBM formwork. Because the ACBM has a low profile it is not expected to materially impact the flood capacity of Patrick Bayou based on the areas estimated for this alternative.

Treatment by mixing AC into sediments has been demonstrated at field scale on several sediment projects. Custom equipment may be required for mixing reagents, and an experienced contractor would be recommended to perform treatment mixing. Access to the center of the channel, while challenging, could be facilitated by using small, shallow-draft barges. Turbidity caused by mixing could present an implementability challenge. This turbidity could be managed using BMPs and engineering controls such as silt curtains. Details on turbidity controls would be developed during remedial design.

Additional implementability challenges include the need to coordinate with the railroad during design and construction in SMA-1. In addition, different ACBM anchoring details may be needed at TOB due to the variable Site conditions (presence of utilities, fences, more natural ground, or active production facilities) along the banks of SMA-1. Finally, remedial construction in Patrick Bayou adjacent to active production facilities would be an implementability challenge for scheduling the work, obtaining access to the work areas through active production areas, limited available space on the banks of Patrick Bayou, and providing for remedial contractor safety. None of these challenges is expected to be insurmountable but may impact cost and schedule.

#### 5.3.2.5 *Cost*

Costs for this alternative were estimated as described in detail in Appendix C. Costs include direct construction costs (mobilization/demobilization, Site preparation, installation of environmental controls, survey, debris removal, and capping) and indirect construction costs (permitting, engineering and design, construction oversight, long-term operations,



monitoring, and maintenance [OMM], and USEPA periodic reviews). Future costs, such as OMM and periodic reviews, were estimated on an NPV basis, assuming a discount rate of 7 percent.

The estimated cost for Alternative 3 is approximately \$6.7 million.

## **5.4 Alternative 4 – Monitored Natural Recovery and SMA-1 through SMA-9 Capping**

### **5.4.1 Threshold Criteria**

#### **5.4.1.1 Overall Protection of Human Health and the Environment**

Alternative 4 meets the threshold criterion of overall protection of human health and the environment because it is based on the same use of MNR as Alternative 2, and allows for capping of SMAs 1 through 9, if warranted, to achieve the PCB surface water RAO and to manage benthic risk in these areas. By capping SMA-1, potential sources of PCBs to the water column would be effectively contained. Capping SMA-2 through SMA-9 would effectively eliminate the exposure pathway between benthos and sediments by creating a hard barrier on the sediment surface. Modeling presented in Appendix A indicates that by capping these areas (specifically SMA-1), the Site would be expected to achieve the PCB surface water RAO of 8.2 ng/L within 6 years following completion of construction. Benthic risk would be reduced within 10 years following completion of construction, and aquatic-dependent wildlife risk would be reduced due to a reduction in the availability of PCBs to bioaccumulate. However, capping would effectively eliminate the benthic community for years within SMA-1 through SMA-9, especially in downstream areas where benthic conditions are more conducive to supporting some benthic organisms.

#### **5.4.1.2 Compliance with ARARs**

As with Alternative 3, implementation of Alternative 4 would reduce PCB concentrations in surface water, addressing the PCB surface water RAO and would also lower risk to aquatic-dependent wildlife. Construction of a low-profile cap would trigger compliance with CWA Section 404(b)(1), Rivers and Harbors Act Section 10, and other ARARs related to surface water quality. Alternative 4 is also expected to generally meet the substantive requirements of the ARARs in Table 3-2 through implementation of BMPs and agency documentation and

coordination activities. Construction of the cap would require the placement of approximately 16.8 acres of low-profile ACBM, which is expected to have negligible impact on the flood capacity of Patrick Bayou (i.e., the impact of the cap would be immeasurable within the predictive capability of available flood models).

Unlike Alternative 3, up to 15.3 acres of shallow-water habitat in SMAs 2 through 9 would potentially be capped under Alternative 4. This would result in the immediate elimination of the existing benthic habitat in these SMAs. Although these impacts would be temporary, benthic recovery could require several years before a significant thickness of new sediment were to be deposited onto the surface of the cap to create a suitable habitat substrate. Mitigation for habitat impacts may be required, which would significantly increase the cost of implementing Alternative 4.

## **5.4.2 Balancing Criteria**

### **5.4.2.1 Long-term Effectiveness**

As with Alternative 3, Alternative 4 also includes capping, which has been demonstrated to be effective in the long-term at many sediment cleanup sites. Modeling conducted for this FS (Appendix A) indicates that the PCB surface water RAO would be met throughout the Site within 6 years after completion of construction, and benthic risk would be reduced within 10 years following completion of construction for Alternative 4. As described for Alternatives 2 and 3, MNR has been demonstrated to be a reliable process in the long term.

In addition to capping and natural attenuation processes, the adaptive management approach taken under Alternative 4 would facilitate modifying the monitoring plan and schedule, and/or allow future actions to be taken if the results of the monitoring indicate additional remedial action is required. However, capping with ACBM would allow fewer future options to be considered in capped areas because the hard concrete surface would preclude actions such as in situ treatment once the cap was in place.

### **5.4.2.2 Reduction of Toxicity, Mobility, or Volume**

Similar to Alternative 3, Alternative 4 provides for reduction in mobility of PCBs by including a treatment layer within the cap in SMA-1. This alternative assumes the use of a

granular AC layer dosed at the same rate as Alternative 3, in the form of a RCM underlayment to the ACBM armored cap in SMA-1, which is expected to reduce near-surface porewater concentrations of PCBs by 99.8 percent over 100 years (Appendix B). Unlike Alternative 3, there is no treatment component in SMAs 2 through 9 under this alternative.

#### 5.4.2.3 *Short-term Effectiveness*

Short-term risks to the community, ecological receptors, or workers associated with the implementation of this remedial alternative include the following:

- Potential turbidity (manageable) associated with cap construction
- Significant benthic impacts in ACBM capping areas, which would require several years of sediment deposition onto the surface of the ACBM before benthic recovery could occur. These impacts would occur even beyond the identified SMA footprint because of the need to extend the ACBM to the top of bank for anchoring as described in Section 4.
- Widespread impacts to the banks of Patrick Bayou where construction equipment would be staged and where the ACBM cap would be anchored
- Potential accidents during construction
- Air emissions from construction equipment
- Noise impacts from the work
- Potential facility impacts during the estimated 5- to 7-month duration of the work

Water quality impacts would be expected to be negligible, associated with turbidity during debris removal activities within Patrick Bayou, and cap construction.

Air quality impacts are expected to be moderate for this alternative, associated with equipment operations and truck traffic. An estimated 4,500 hours of heavy equipment operations would be required to complete the project. Equipment and vehicle emissions of hydrocarbons and nitrogen oxides lead to the generation of smog, including ozone, which is a particular concern in Harris County which has been classified by USEPA as a “severe” non-attainment area for the 1997 8-hour ozone standard and a “marginal” non-attainment

area for the 2008 8-hour ozone standard. Moreover, Harris County has not yet been classified in the 2012 National Ambient Air Quality Standard (TCEQ 2013) for PM<sub>2.5</sub>.

Community impacts associated with truck traffic are expected to be minimal considering that the Site is located in an industrial area.

Health and safety impacts were assessed using USDL statistics for accidents and fatalities for the “construction” labor code category based on the estimated total labor hours required for the alternative. Alternative 4 would result in an estimated 0.25 lost-time injuries and 0.001 fatalities. As with Alternative 3, both of these safety statistics are below 1.0, suggesting the likelihood for injury or fatality is very low. Worker safety issues would be addressed during remedial design, and measures would include, at a minimum, development of detailed health and safety plans to help mitigate these risks.

#### *5.4.2.4 Implementability*

As discussed under Alternative 3, capping using ACBM and RCM products has been successfully demonstrated at similar sites. Areas with shallow water and/or a relatively narrow channel should provide for relatively straightforward deployment of the textiles. In difficult access areas, such as pipeline crossings and bridge foundations, hand labor can be used to deploy the fabric prior to pumping concrete into the ACBM formwork. Because the ACBM has a low profile, it is not expected to materially impact the flood capacity of Patrick Bayou. However, if it is determined during remedial design that dredging is necessary to maintain flood capacity in Patrick Bayou, the implementability challenges would be significant, including protection of water quality, management of residuals and releases, material handling, and disposal as described in Section 4.2.5.

Implementability challenges include the need to coordinate with the PTRAs during design and construction in SMA-1. In addition, different anchoring details may be needed at the top of the bank due to variable Site conditions (presence of utilities, fences, more natural ground, or active production facilities) along the channel length. Further, in wider channel areas, the contractor may need to take additional measures to ensure that pumped grout will fully fill the ACBM formwork in the middle of the channel, as grout hoses are typically

inserted into the formwork at the edge on top of the banks. These wider panels of formwork are also more difficult to deploy accurately because of their size. Finally, remedial construction in Patrick Bayou adjacent to active production facilities would be an implementability challenge for the following reasons:

- Scheduling the work to avoid disruptions to production operations
- Obtaining access to work areas through active production areas
- Finding suitable available work space on the banks of Patrick Bayou
- Providing for remedial contractor safety

None of these challenges is expected to be insurmountable, but they may impact cost and schedule.

#### 5.4.2.5 Cost

Costs for this alternative were estimated as described in detail in Appendix C. Costs include direct construction costs (mobilization/demobilization, Site preparation, installation of environmental controls, survey, debris removal, and capping) and indirect construction costs (permitting, engineering and design, construction oversight, long-term operations, monitoring, and maintenance [OMM], and USEPA periodic reviews). Future costs, such as OMM and periodic reviews, were estimated on an NPV basis, assuming a discount rate of 7 percent.

The estimated cost for Alternative 4 is approximately \$13.0 million.

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## 6 COMPARATIVE ANALYSIS OF ALTERNATIVES

This section compares the alternatives relative to each of the FS evaluation criteria listed under the NCP. Table 5-1 provides a comparative evaluation summary of the remedial alternatives based on the following criterion: overall protection, compliance with ARARs, long- and short-term effectiveness, reduction in TMV, implementability, and cost. (For a summary of criteria for each alternative and the basis for this comparative evaluation discussion, see Table 5-1.).

### 6.1 Threshold Criteria

#### 6.1.1 Overall Protection of Human Health and the Environment

Alternative 1 does not meet the threshold criterion for overall protection of human health and the environment. Thus, it was excluded from further consideration in this comparative evaluation.

Preliminary model predictions conducted for this FS indicate that Alternative 2 is uncertain as to whether it can achieve overall protection of human health and the environment. Alternative 2 is estimated (albeit with some uncertainty, as described in Appendix E) to achieve the PCB surface water RAO throughout the Site after 9 to 19 years through natural recovery; however, benthic risk may not be reduced to acceptable levels across the entire Site within a reasonable time frame, as described in Appendix A.

Alternatives 3 and 4 provide for protection of human health and the environment through combinations of natural recovery, treatment, and capping. Alternatives 3 and 4 are expected to meet the PCB surface water RAO within about 6 years after construction (Appendix A). Alternative 3 is estimated to reduce aquatic-dependent wildlife and benthic risks to acceptable levels in SMAs within less than 3 years following construction and MNR areas within 10 years. Alternative 4 would remove exposure pathways to benthos and wildlife in SMAs immediately after construction, but it requires a much longer period for habitat recovery than Alternative 3 due to time required for sedimentation and recolonization in areas treated with ACBM. Thus, recovery of benthic habitat would take much longer across significant portions of the Site (15.3 acres) under Alternative 4 than under Alternative 3.

### **6.1.2 Compliance with ARARs**

Alternative 2 is uncertain in regards to natural recovery's ability to meet the PCB surface water RAO; although recent surface water sampling data indicate reductions in PCB concentrations that, if this trend continues, would achieve the PCB surface water RAO throughout the Site within 9 to 19 years. Because Alternative 2 does not entail active construction in Patrick Bayou, other ARAR compliance is expected to be more straightforward than for Alternatives 3 and 4.

Alternatives 3 and 4 are both expected to comply with ARARs. Implementation of Alternative 3 or 4 would require the use of BMPs to protect surface water quality during construction and conform to substantive requirements of ARARs. Alternative 4 has a higher potential ecological impact than Alternative 3 because it potentially requires the use of a larger ACBM cap; as such, implementation of Alternative 4 could trigger a need for mitigation for loss of shallow-water habitat, which would significantly increase the cost and time frame for this alternative.

## **6.2 Balancing Criteria**

### **6.2.1 Long-term Effectiveness**

Alternative 2 ranks uncertain for long-term effectiveness. Based on modeling conducted for the FS, the PCB surface water RAO may not be fully achieved across the Site until more than 19 years under natural recovery alone. In one location (PB-032, Table 4-1), it is estimated that more than 50 years of natural recovery would be required before benthic risk is reduced to acceptable levels based on empirical model projections (Appendix A).

Alternative 3 and Alternative 4 rank the highest for long-term effectiveness. Both are predicted to meet the PCB surface water RAO throughout the Site within about 6 years following remedy construction based on the results of the modeling presented in Appendix A. Residual aquatic-dependent wildlife and benthic risk is projected to be reduced to acceptable levels within less than 3 years under Alternative 3, and this alternative is highly compatible with adaptive management options that allow for future actions to be taken to ensure the long-term effectiveness of the remedy. Under Alternative 4, benthic risk is reduced to acceptable levels in SMAs following completion of construction because the

exposure pathway between benthos and sediment is predicted to be blocked; however, benthic recovery would require a longer time period under Alternative 4 because new sediment input would be needed to improve the habitat substrate on the surface of the ACBM cap. Finally, Alternative 4 provides fewer opportunities to implement adaptive management actions in capped areas because the ACBM cap is a relatively permanent structure.

### **6.2.2 Reduction of Toxicity, Mobility, or Volume**

Alternative 2 does not include additional measures to reduce TMV beyond the natural sedimentation processes that are expected to reduce the mobility of impacted surface sediments and continued attenuation of the source of PCBs to the water column.

Alternatives 3 and 4 include a treatment layer (granular AC within a RCM) below the armored cap in SMA-1, which will sequester PCBs and is expected to reduce near-surface porewater concentrations by 99.8 percent over 100 years where the RCM is used.

Alternative 3 provides additional treatment of contaminants in benthic risk SMAs through the use of in situ treatment, which, based on case studies, could be expected to reduce PCB concentrations in surface sediment porewater by up to 99 percent or more and reduce bioavailability by at least 90 percent. Because of the additional treatment provided under Alternative 3, it ranks higher than Alternative 4 for reduction of TMV.

### **6.2.3 Short-term Effectiveness**

Alternative 2 ranks uncertain for short-term effectiveness. Although there are no active construction activities and the work is limited to sample collection for MNR monitoring (and thus short-term environmental impacts, community impacts, and health and safety impacts are negligible), the time frame to meet the PCB surface water RAO is estimated to be about 9 to 19 years, and the time frame for benthic risk to reach acceptable levels could be unacceptable across some parts of the Site. Both estimates are subject to the uncertainty associated with the analytical models used for these predictions.

Alternative 3 ranks higher than Alternative 4 for short-term effectiveness, and both rank higher than Alternative 2 for the following reasons:

- They achieve the PCB surface water RAO within about 6 years after construction.



- They achieve aquatic-dependent wildlife and benthic risks reduction either within about 3 years (Alternative 3) or within about 10 years (Alternative 4) to allow for sediment deposition to create a suitable habitat substrate in the surface of the ACBM cap.

Alternatives 3 and 4 cause disturbance along Patrick Bayou at the top of the bank to facilitate ACBM anchoring; however, under Alternative 4, this disturbance is much more widespread. Based on estimated environmental impacts, as reflected by equipment operation hours and truck trips, the impacts from Alternative 4 are estimated to be essentially the same as Alternative 3. Alternative 3 has a slightly higher potential for water quality impacts than Alternative 4 because it entails mixing of a treatment reagent into surface sediments. However, if surficial application of AC is used for treatment in lieu of mixing, turbidity would be greatly reduced. The risk of health and safety impacts, as reflected by potential lost time injuries or fatalities, is also comparable between Alternative 3 and Alternative 4. Because the potential short-term impacts are relatively lower for Alternative 3 (specifically considering the benthic disturbance following construction), it ranks higher than Alternative 4 for short-term effectiveness.

#### **6.2.4 Implementability**

Alternative 2 ranks highest for implementability. Benthic, water, and sediment sample collection have been performed at the Site successfully with negligible impact to ongoing operations, using relatively straightforward techniques. Because there is no active construction, there are no implementability concerns such as site access for Alternative 2.

Alternative 3 ranks comparably to Alternative 4 for implementability. Placement of an ACBM cap over approximately 1.6 acres in SMA-1 under both alternatives is considered technically feasible for an experienced contractor, albeit with similar implementability challenges associated with working adjacent to active production facilities as described in Section 5. Although the use of ACBM requires less experienced contractor personnel and more traditional construction equipment compared to the specialized equipment that might be needed to implement treatment in SMA-2 through SMA-9, capping could trigger the need

for excavation to maintain flood capacity (see Section 4)—exacerbating implementability and offsetting any advantage of the more traditional construction approach.

### **6.2.5 Cost**

Alternative 2 is the lowest cost alternative, with an estimated cost of \$710,000 NPV.

Alternative 3 is estimated to cost approximately \$6.7 million NPV, a factor of more than 8 times greater than Alternative 2. Alternative 4 is estimated to cost approximately \$13.0 million NPV, a factor of more than 18 times greater than Alternative 2 and nearly 2 times greater than Alternative 3.

While Alternative 2 has the lowest cost, there is some uncertainty around the analytic modeling used to assess Alternative 2 that would not be confirmed until pre-design sampling. For the remedies that include active construction, Alternative 3 is more cost-effective than Alternative 4, as defined under both CERCLA and the NCP, which require that remedies be cost-effective (42 U.S.C. §9621(a); 40 CFR §300.430(f)(1)(ii)(D)). Alternative 3 effectively and permanently reduces risk in a cost-effective manner when compared to Alternative 4. With a similar restoration time frame compared to Alternative 3, Alternative 4 does not provide any material incremental risk reduction and is less compatible with future adaptive management actions than Alternative 3.

## **6.3 Summary of Comparative Evaluation**

Table 6-1 presents a comparison matrix providing a qualitative ranking of Alternatives 2, 3, and 4 using the terms “least favorable,” “middle,” and “most favorable” to indicate each alternative’s rank relative to the others for a particular criterion. An additional ranking, “uncertain,” is included to indicate that RI/FS evaluations are not sufficient to compare the alternative relative to the others until pre-design baseline sampling data are collected.

These qualitative rankings are based on the discussion provided in Sections 6.1 and 6.2 and detailed considerations described in Section 5 and presented in Table 5-1. In some cases, alternatives are ranked the same for a particular criterion. Note that Table 6-1 does not consider State or community acceptance, which are considered by USEPA during preparation of the proposed plan for the Site.

As shown in Table 6-1, and based on the data available at the time of the FS, Alternative 3 ranks higher overall compared to Alternative 4 when compared directly. Alternative 3 also provides for higher certainty of outcome than Alternative 2.

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# TABLES

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**Table 2-2  
Summary Statistics for Houston Ship Channel Background Dataset**

Chemical	Units	Number of Samples <sup>a</sup>	Number Excluded <sup>b</sup>	Minimum Value	Maximum Value	Average	Standard Deviation	Best Fit Distribution	95 Percent Upper Probability Limit	Method <sup>c</sup>
Total PCB	ng/L	38	2	0.4	12.5	3.7	2.4	Gamma	8.2	95% Wilson Hilferty (WH) Approx. Gamma UPL
PCDD/PCDF TEQs	ng/L	30	0	9.1E-05	1.8E-03	5.1E-04	3.9E-04	Normal	1.2E-03	95% UPL (t)

Notes:

a - Duplicate and normal sample results are averaged. Shallow and deep sample results are averaged.

b - Data from station 15936 at mouth of Patrick Bayou are excluded.

c - As determined using ProUCL Version 5.0 (<http://www.epa.gov/osp/hstl/tsc/software.htm>)

ng/L = nanograms per liter

PCB = polychlorinated biphenyl

PCDD/PCDF - polychlorinated dibenzodioxins / polychlorinated dibenzofurans

TEQ - toxic equivalents (based on Texas Surface Water Quality Standard toxic equivalency factors)

UPL (t) = normal upper probability limit

**Table 2-3  
Fate and Transport Chemical Properties of Indicator Chemicals**

Indicator Chemical	Chemical Abstracts Service Number	Water Solubility (milligrams/liter)				Partition Coefficient* (liters/kilogram)				Biodegradation Rate (half life, days)								
		Value or Range		Source	Value or Range		Source	Aerobic		Anaerobic								
								Value or Range	Source	Value or Range	Source							
<b>Polychlorinated Biphenyl Compounds (PCBs)</b>																		
Aroclor 1248	12672-29-6	4.30E-02	-	3.20E-01	5.	3.16E+04	-	7.66E+04	K <sub>oc</sub>	13.	Not Available		Not Available					
PCB-209	2051-24-3	7.43E-06	-	6.32E-05	5.	4.41E+05	-	1.63E+06	K <sub>oc</sub>	13.	Not Available		Not Available					
Tri-substituted PCBs	25323-68-6	3.91E-01	-	4.00E-01	5.	1.38E+04	-	4.86E+04	K <sub>oc</sub>	13.	2	-	6	8. <sup>C</sup>	Not Available			
Tetra-substituted PCBs	26914-33-0	1.50E-02	-	8.60E-02	5.	2.74E+04	-	1.32E+05	K <sub>oc</sub>	13.	4	-	56	8. <sup>C</sup>	Not Available			
Penta	25429-29-2					5.6 - 6.8		1.00E+00		LWG								
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>																		
Acenaphthene	83-32-9	3.57E+00			7.	3.89E+03			K <sub>oc</sub>	7.	1	-	7	9.	4	-	28	9.
Anthracene	120-12-7	4.34E-02			9.	1.58E+04			K <sub>oc</sub>	7.	50	-	460	9.	200	-	1,840	9.
Benzo(a)anthracene	56-55-3	9.40E-03			9.	2.00E+05			K <sub>oc</sub>	7.	102	-	680	6. <sup>D</sup>	408	-	2,720	6. <sup>D</sup>
Benzo(a)pyrene	50-32-8	1.62E-03			7.	5.07E+06			K <sub>oc</sub>	7.	57	-	530	9.	228	-	2,120	9.
Benzo(b)fluoranthene	205-99-2	1.50E-03			9.	1.56E+05			K <sub>oc</sub>	7.	360	-	610	6. <sup>D</sup>	1,440	-	2,440	6. <sup>D</sup>
Benzo(k)fluoranthene	207-08-9	8.00E-04			9.	2.20E+04			K <sub>oc</sub>	7.	910	-	2,140	6. <sup>D</sup>	3,640	-	8,560	6. <sup>D</sup>
Chrysene	218-01-9	1.60E-03			9.	1.33E+05			K <sub>oc</sub>	7.	371	-	1,000	6. <sup>D</sup>	1,484	-	4,000	6. <sup>D</sup>
Dibenz(a,h)anthracene	53-70-3	2.49E-03			9.	3.80E+06			K <sub>oc</sub>	9.	361	-	940	6. <sup>D</sup>	Not Available			
Fluoranthene	206-44-0	2.06E-01			9.	4.20E+04			K <sub>oc</sub>	7.	140	-	440	6. <sup>D</sup>	560	-	1,760	6. <sup>D</sup>
Fluorene	86-73-7	1.98E+00			9.	1.38E+04			K <sub>oc</sub>	9.	32	-	60	6. <sup>D</sup>	128	-	240	6. <sup>D</sup>
Indeno(1,2,3-cd)pyrene	193-39-5	2.20E-05			9.	1.60E+06			K <sub>oc</sub>	7.	Not Available			Not Available				
Naphthalene	91-20-3	3.10E+01			9.	8.70E+02			K <sub>oc</sub>	7.	0.2	-	17	7.	NOD	-	NOD	7.
Pyrene	129-00-0	1.35E-01			9.	1.05E+05			K <sub>oc</sub>	9.	210	-	1,900	6. <sup>D</sup>	840	-	7,600	6. <sup>D</sup>
<b>Other Organic Indicator Chemicals</b>																		
Bis(2-ethylhexyl)phthalate	117-81-7	3.40E-01			9.	8.74E+04			K <sub>oc</sub>	7.	5	-	23	9.	41	-	389	9.
<b>Inorganic Indicator Chemicals</b>																		
Mercury	7439-97-6	5.60E-02 <sup>A</sup>			14.	3.98E+03			k <sub>d</sub>	11.	Not applicable			Not applicable				
Lead	7439-92-1	<0.05 (pH >7) <sup>A</sup>			12.	5.01E+03			k <sub>d</sub>	11.	Not applicable			Not applicable				
<b>Polychlorinated dibenzodioxins &amp; Polychlorinated dibenzofurans (PCDDs &amp; PCDFs)</b>																		
<b>PCDDs</b>																		
Total Tetrachlorodibenzo -p-dioxin (TCDD)	41903-57-5	3.5E-04			13.	7.9E+04	-	2.5E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
Total Pentachlorodibenzo-p -dioxin (PeCDD)	36088-22-9	1.2E-04			13.	3.6E+04	-	4.3E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
Total Hexachlorodibenzo -p-dioxin (HxCDD)	34465-46-8	4.0E-06			13.	4.1E+05	-	7.0E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
Total Heptachlorodibenzo -p-dioxin (HpCDD)	37871-00-4	2.4E-06	-	1.4E-06	13.	3.1E+05	-	1.2E+06	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	3268-87-9	4.0E-07			13.	4.0E+05	-	1.9E+06	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
<b>PCDFs</b>																		
Total Tetrachlorodibenzofuran (TCDF)	55722-27-5	3.7E-03	-	3.1E-02	13.	3.5E+04	-	1.5E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
Total Pentachlorodibenzofuran (PeCDF)	30402-15-4	1.3E-03	-	6.9E-03	13.	5.2E+04	-	2.4E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
Total Hexachlorodibenzofuran (HxCDF)	55684-94-1	1.1E-04	-	1.6E-03	13.	1.8E+05	-	4.0E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
Total Heptachlorodibenzofuran (HpCDF)	38998-75-3	1.4E-06			13.	2.8E+05	-	6.5E+05	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		
1,2,3,4,5,6,7,8-Octachlorodibenzofuran (OCDF)	39001-02-0	1.2E-06			13.	6.7E+05	-	1.1E+06	K <sub>oc</sub>	13.	360		13. <sup>F</sup>	1,621		13. <sup>F</sup>		

**Table 2-3**  
**Fate and Transport Chemical Properties of Indicator Chemicals**

Notes

- \* Partition Coefficients are the ratio of the concentration adsorbed to the solid medium (in milligrams of constituent/kilogram of solid) to the concentration in water (in milligrams of constituent/liter of water). The resulting units for  $K_d$  or  $K_{oc}$  are liters/kilogram. For organic indicator chemicals, partitioning coefficients are adjusted for organic carbon content ( $K_{oc}$ ).
- NOD - No observed degradation
- A. Solubility of metals in water is highly dependent on water chemistry, which affects the speciation of the metal. Mercury solubility is controlled by the presence of sulfide radicals and organic matter (Source 2). Lead is reported as insoluble in
- B. Half life in sediment for PCBs generally. Degradation rates for individual congeners varies widely.
- C. Half life values calculated from data presented in source.
- D. Half lives converted from values given in hours. Aerobic degradation half lives measured in vadose-zone soil; anaerobic half lives measured in water.
- E. Half lives converted from values given in hours. Degradation half lives measured in water.
- F. Half lives converted from values given in hours. Aerobic degradation half lives are for soil; anaerobic half lives are for sediment.

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**Table 3-1  
Sediment Toxicity and Chemistry Lines of Evidence as Presented in the BERA**

<b>2002/2003 Benthic Toxicity Station</b>	<b>Proportion Toxic</b>	<b>Toxicity Classification</b>	<b>2002/2003 Mean PEL-Q</b>
V	0%	Low	1.25
2.5	0%	Low	1.37
S	0%	Low	3.26
E	25%	Low	1.98
U	0%	Low	0.14
3	31%	Indeterminate	7.56
G	25%	Low	0.74
4A	54%	Probable	56.12
5	25%	Low	3.07
T	0%	Low	1.53
6A	69%	Probable	12.17
Q	25%	Low	4.47*

Notes:

\* Highest mean PEL-Q with low toxicity

PEL-Q = Probable Effects Level-Quotient

**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs <sup>1</sup>	Citation	Summary	Comment
<b>Federal</b>			
Clean Water Act (CWA): Criteria and standards for imposing technology-based treatment requirements under §§ 309(b) and 402 of the CWA	33 U.S.C. §§ 1319 and 1342 (implementing regulations at 40 CFR Part 125 Subpart A)	Both on-site and off-site discharges from Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites to surface waters are required to meet the substantive CWA National Pollutant Discharge Elimination System (NPDES) requirements (USEPA 1988).	On-site discharges must comply with the substantive technical requirements of the CWA but do not require a permit (USEPA 1988). Off-site discharges would be regulated under the conditions of a NPDES permit (USEPA 1988).  Standards of control for direct discharges must meet technology-based requirements. Best conventional pollution control technology (BCT) is applicable to conventional pollutants. Best available technology economically achievable (BAT) applies to toxic and non-conventional pollutants.  For CERCLA sites, BCT/BAT requirements are determined on a case-by-case basis using best professional judgment. This is likely to be a potential requirement only if treated water or excess dredge water is discharged during implementation.
CWA Sections 303 and 304: Federal Water Quality Criteria	33 U.S.C. §§1313 and 1314 (Most recent 304(a) list as updated to issuance of Record of Decision [ROD])	Under §303 (33 U.S.C. §1313), individual states have established water quality standards to protect existing and attainable uses (USEPA 1988). CWA §301(b)(1)(C) requires that pollutants contained in direct discharges be controlled beyond BCT/BAT equivalents (USEPA 1988).  CERCLA §121(d)(2)(B)(i) establishes conditions under which water quality criteria, which were developed by U.S. Environmental Protection Agency (USEPA) as guidance for states to establish location-specific water quality standards, are to be considered relevant and appropriate. Two kinds of water quality criteria have been developed under CWA §304 (33 U.S.C. §1314): one for protection of human health, and another for protection of aquatic life. These requirements include establishment of total maximum daily loads (TMDL).	The Feasibility Study (FS) considers the ability of remedial alternatives to satisfy established water quality criteria. Best management practices (BMPs) would be established for remedial actions and applied during construction. Water quality would also be monitored during construction, and additional BMPs may be implemented if necessary to protect water quality.  Where water quality state standards contain numerical criteria for toxic pollutants, appropriate numerical discharge limitations may be derived for the discharge and considered (USEPA 1988). Where state standards are narrative, either the whole-effluent or chemical-specific approach may generally be used as a standard of care (USEPA 1988).
CWA Section 307(b): Pretreatment Standards	33 U.S.C. §1317(b)	CERCLA §121(e) states that no federal, state, or local permit for direct discharges is required for the portion of any removal or remedial action conducted entirely on site (the aerial extent of contamination and all suitable areas in close proximity to the contamination necessary for implementation of the response action; USEPA 1988).	If off-site discharges from a CERCLA response activity were to enter receiving waters directly or indirectly, through treatment at a Publicly Owned Treatment Works (POTWs), they must comply with applicable Federal, State, and Local substantive requirements and formal administrative permitting requirements (USEPA 1988). This requirement may be triggered by disposal methods for waste.  Based on the current set of proposed alternatives, none of the alternatives involve discharge to a POTW; therefore, this regulation is not likely to be applicable.

<sup>1</sup> ARARs are Applicable or Relevant and Appropriate Requirements of Federal or state environmental laws and state facility siting laws. CERCLA section 121(d) requires that remedial actions generally comply with ARARs. The USEPA has stated a policy of attaining ARARs to the greatest extent practicable on remedial or removal actions (USEPA 1988). USEPA also stated that certain nonpromulgated Federal and state advisories or guidelines would be considered in selecting remedial or removal actions; these guidelines are referred to as TBCs, or "to be considered."



**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs <sup>1</sup>	Citation	Summary	Comment
CWA Section 401: Water Quality Certification	33 U.S.C. §1341	Requires applicants for Federal permits for projects that involve a discharge into navigable waters of the United States to obtain certification from state or regional regulatory agencies that the proposed discharge will comply with CWA Sections 301, 302, 303, 306, and 307.	Proposed activities that are on site would not require a Federal permit. Therefore, certification is not legally required for on-site actions. Certification would be required for off-site actions. For on-site or off-site actions, certification should occur as part of the state identification of substantive state ARARs (USEPA 1988). Compliance with water quality criteria is discussed under CWA Sections 303 and 304.
CWA Section 404 and 404(b)(1): Dredge and Fill	33 U.S.C. §1344 (b)(1) (implementing regulations at 33 CFR 320 and 330; 40 CFR 230)	Discharges of dredged and fill material into waters of the United States must comply with the CWA §404 (33 U.S.C. 1344) guidelines and demonstrate the public interest is served (USEPA 1988).	Patrick Bayou is a water of the United States (USEPA 2007). Dredge and fill permits are applicable to dredging, in-water disposal, capping, construction of berms or levees, stream channelization, excavation and/or dewatering within waters of the United States (USEPA 1988). Permits are not required, however, for on-site CERCLA actions. Under the 404(b)(1) guidelines, efforts should be made to avoid, minimize, and mitigate adverse effects on the waters of the United States, and, where possible, select a practicable (engineering feasible) alternative with the least adverse effects. The substantive requirements of Section 404 will be considered in the development and evaluation of remedial alternatives to minimize adverse impacts to waters of the United States.
Safe Drinking Water Act	42 U.S.C. §300f (implementing regulations at 40 CFR Part 141, et seq.)	The Safe Drinking Water Act is applicable to public drinking water sources at the point of consumption (“at the tap”). Maximum contaminant levels (MCLs) have been established for certain constituents to protect human health and to preserve the aesthetic quality of public water supplies.	Safe Drinking Water Act standards are applicable to public drinking water sources. Patrick Bayou does not supply public drinking water and does not recharge an aquifer used to supply drinking water. Therefore, the Safe Drinking Water Act is not applicable.
Federal Drinking Water Regulations (Primary and Secondary Drinking Water Standards) <sup>2</sup>	40 CFR 141 and Part 143	USEPA has established two sets of drinking water standards: one for protection of human health (primary) and one to protect aesthetic values of drinking water (secondary) (USEPA 1988). MCLs are applicable to public drinking water sources at the point of consumption.	Safe Drinking Water Act standards are applicable to public drinking water sources. Patrick Bayou does not supply public drinking water and does not recharge an aquifer used to supply drinking water. Therefore, the Safe Drinking Water Act is not applicable.
Resource Conservation And Recovery Act (RCRA): Hazardous Waste Management	42 U.S.C. §§6921 et seq. (implementing regulations at 40 CFR Parts 260 – 268)	RCRA is intended to protect human health and the environment from the hazards posed by waste management (both hazardous and nonhazardous). RCRA also contains provisions to encourage waste reduction. RCRA Subtitle C and its implementing regulations contain the Federal requirements for the management of hazardous wastes.	This requirement would apply to certain activities if the affected sediments contain RCRA-listed hazardous waste or exhibit a hazardous waste characteristic. RCRA requirements are applicable only if waste is managed (treated, stored, or disposed of) after effective date of RCRA requirement under consideration, or if CERCLA activity constitutes treatment, storage, or disposal as defined by RCRA.
RCRA: General Requirements for Solid Waste Management	42 U.S.C. §§6941 et seq. (implementing regulations at 40 CFR 258)	Requirements for construction for municipal solid waste landfills that receive RCRA Subtitle D wastes, including industrial solid waste. Requirements for run-on/run-off control systems, groundwater monitoring systems, surface water requirements, etc.	This requirement would be relevant only if a landfill was constructed for the disposal of nonhazardous solid waste. There are no specific Federal requirements for non-hazardous waste management; state regulations provide specific applicable requirements for siting, design, permitting, and operation of landfills.
Toxic Substances Control Act (TSCA)	15 USC §2601 et. seq. (implementing regulations at 40 CFR 761)	Potentially applicable to polychlorinated biphenyl (PCB)-contaminated sediment or surface water. Requires remedial action of certain PCB releases depending on the concentration of the source material and the date of the release (or the as-found concentration for releases where the date is undetermined). Disposal and treatment requirements are also specified for environmental media if removed depending on total PCB concentrations.	Total PCB concentrations in limited areas of the Site may exceed the regulatory threshold (50 mg/kg, calculated as specified in 40 CFR 761) that would require remedial action and may trigger certain requirements for waste management. TSCA regulations may be insignificant relative to other bases for remedial action. No sediment samples contain total PCB concentrations that would trigger TSCA requirements for disposal by incineration.

<sup>2</sup> Underground injection is not anticipated as a part of the potential remedial action. Furthermore, the site is not located in a sole-source aquifer (USEPA 2008). It is also assumed that no wellhead protection area is located near the study area.

**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs <sup>1</sup>	Citation	Summary	Comment
Clean Air Act (CAA)	42 U.S.C. §§7401 et seq.	Would apply if dredging and/or excavation activities generate air emissions sufficient to require a permit: greater than 10 tons of any pollutant per year under the CAA operational permit (USEPA 2009).	None of the remedial alternatives would trigger an operational permit.
Rivers And Harbors Act of 1899: Obstruction of Navigable Waters (generally, wharves; piers, etc.); excavation and filling-in	33 U.S.C. §401	Controls the alteration of navigable waters (i.e., waters subject to ebb and flow of the tide shoreward to the mean high water mark). Activities controlled include construction of structures such as piers, berms, and installation of pilings as well as excavation and fill. Section 10 may be applicable for any action that may obstruct or alter a navigable waterway.	No permit is required for on-site activities. Construction activities will comply with substantive requirements.
Endangered Species Act	16 U.S.C. §§ 1531 et seq.	Federal agencies must ensure that actions they authorize, fund, or carry out are not likely to adversely modify or destroy critical habitat of endangered or threatened species. Actions authorized, funded, or carried out by federal agencies may not jeopardize the continued existence of endangered or threatened species as well as adversely modify or destroy their critical habitats.	This requirement is not relevant as there are no Federally listed threatened or endangered (T&E) species or critical habitat present at the site. U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) maps, aerial imagery, and photographs of the site were reviewed to determine that there is no critical habitat present at the site. Some protected species may be present downstream in the Houston Ship Channel vicinity. Pursuant to CERCLA 121(e) and USEPA policy, USEPA will consult with the USFWS and NMFS and no permits are required.
Fish and Wildlife Coordination Act	16 U.S.C. §§661 et seq.; 16 U.S.C. §742a; 16 U.S.C. § 2901	Requires adequate provision for protection of fish and wildlife resources. This title has been expanded to include requests for consultation with USFWS for water resources development projects (Mueller 1980). Any modifications to rivers and channels require consultation with the USFWS, Department of Interior, and state wildlife resources agency. <sup>3</sup> Project-related losses (including discharge of pollutants to waterbodies) may require mitigation or compensation.	Applicable to any action that controls or modifies a body of water.
Bald and Golden Eagle Protection Act	16 U.S.C. §668a-d	Makes it unlawful to take, import, export, possess, buy, sell, purchase, or barter any bald or golden eagle, nest, or egg. "Take" is defined as pursuing, hunting, shooting, poisoning, wounding, killing, capturing, trapping and collecting, molesting, or disturbing.	This requirement is potentially relevant to CERCLA activities. No readily available information suggests bald or golden eagles frequent the project area; however, a qualified biologist will perform a site visit prior to implementation of the remedial action to confirm that bald and golden eagles do not frequent the project area and would not be affected by construction activities.
Migratory Bird Treaty Act	16 U.S.C. §§703-712 (implementing regulations at 50 CFR §10.12)	Makes it unlawful to take, import, export, possess, buy, sell, purchase, or barter any migratory bird. "Take" is defined as pursuing, hunting, shooting, poisoning, wounding, killing, capturing, and trapping and collecting.	This requirement is relevant to CERCLA activities. No readily available information suggests migratory birds frequent the project area, and aerial photography of the site suggests no suitable nesting or stopover habitat is present; however, a qualified biologist will perform a site visit prior to implementation of the remedial action to confirm that migratory birds would not be affected by construction activities.
Coastal Zone Management Act	16 USC §§1451 et seq. (implementing regulations at 15 CFR 930)	Federal activities must be consistent with, to the maximum extent practicable, State coastal zone management programs (CZMPs). Federal agencies must supply the State with a consistency determination (USEPA 1989).	Patrick Bayou lies within the Coastal Zone Boundary according to the Texas Coastal Management Plan (TCMP) prepared by the General Land Office (GLO). The FS considers whether the remedial alternatives would affect (adversely or not) the coastal zone, and the lead agency is required to determine whether the activity will be consistent with the State's CZMP (USEPA 1989). More information regarding the state requirements is provided under Texas Coastal Coordination Council (TCCC) Policies for Development in Critical Areas.

<sup>3</sup> Texas Parks and Wildlife Department.

**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs <sup>1</sup>	Citation	Summary	Comment
FEMA (Federal Emergency Management Agency), Department of Homeland Security (Operating Regulations)	42 U.S.C. 4001 et seq. (implementing regulations at 44 CFR Chapter 1)	Prohibits alterations to river or floodplains that may increase potential for flooding.	This requirement is relevant because the project area is within a designated flood zone. An assessment of the potential impacts of remedial alternatives on the floodplain found that the remedial alternatives will not significantly impact flood storage capacity. Additional evaluation of hydraulic capacity will be performed as part of the remedial design.
National Flood Insurance Program (NFIP) Regulations	42 U.S.C. subchapter III, §§4101 et seq.	Provides federal flood insurance to local authorities and requires that the local authorities not allow fill in the river that would cause an increase in water levels associated with floods.	An assessment of the potential impacts of remedial alternatives on the floodplain found that the remedial alternatives will not likely significantly impact flood storage capacity. Additional evaluation of hydraulic capacity will be performed as part of the remedial design.
Title 40: Protection of the Environment - Statement of Procedures on Floodplain Management and Wetlands Protection	40 CFR Part 6 App. A; Executive Orders (EO) 11988 and 11990	Requires federal agencies to conduct their activities to avoid, if possible, adverse impacts associated with the destruction or modification of wetlands and occupation or modification of floodplains. The EOs 11988 and 11990 require federal projects to avoid adverse effects and minimize potential harm to wetlands and within flood plains.  The EO 11990 requires federal agencies to avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative (USEPA 1994).  The agency also adopted a requirement that the substantive requirements of the Protection of Wetlands Executive Order must be met (USEPA 1994). Unavoidable impacts to wetlands must be mitigated (USEPA 1994). <sup>4</sup>	An assessment of the potential impacts of remedial alternatives on the floodplain found that the remedial alternatives will not likely significantly impact flood storage capacity. Additional evaluation of hydraulic capacity will be performed as part of the remedial design.  Implementation of the remedial alternatives would not involve adverse impacts to wetlands. Minimal disturbance during construction would be temporary.
National Historic Preservation Act	16 U.S.C. §§ 470 et seq. (implementing regulations at 36 CFR 800)	Section 106 of this statute requires Federal agencies to consider effects of their undertakings on historic properties. Historic properties may include any district, site, building, structure, or object included in or eligible for the National Register of Historic Places (NRHP), including artifacts, records, and material remains related to such a property.	Because of the extensive disturbance to the site and minimal upland disturbance that will likely occur for the project, it is unlikely that NRHP-eligible historic properties will be affected by remedial activities.
Noise Control Act	42 U.S.C. §§ 4901 et seq. (implementing regulations at 40 CFR Subchapter G §201 et seq.)	Noise Control Act remains in effect but unfunded (USEPA 2010).	Noise is regulated at the state level. See Texas Penal Code under state ARARs.
Hazardous Materials Transportation Act	49 U.S.C. §§1801 et seq. (implementing regulations at 49 CFR Subchapter C)	Establishes standards for packaging, documenting, and transporting hazardous materials.	This requirement applies to the transportation of hazardous materials off site for treatment or disposal. The remedial alternatives involve transportation of minimal quantities of potentially hazardous materials off site in the form of debris that would be cleared prior to remedy implementation.

<sup>4</sup> Each agency is expected to minimize the destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands when implementing actions such as CERCLA sites (President of the United States 1977). If §404 of the Clean Water Act is considered an ARAR, then the 404(b)(1) guidelines established in a Memorandum of Understanding (MOU) between USEPA and Department of Army should be followed (USEPA 1994). When habitat is severely degraded, a mitigation ratio of 1:1 may be acceptable (USEPA 1994). However, any mitigation would be at the discretion of the agency, and the USEPA may elect to orient mitigation towards “minimizing further adverse environmental impacts rather than attempting to recreate the wetlands original value on site or off site” (USEPA 1988).

**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs	Citation	Summary	Comment
<b>State</b>			
30 Texas Administrative Code (TAC) Part 1: Industrial Solid Waste and Municipal Hazardous Waste General Terms	30 TAC §§335.1 – 335.15	General Terms: Substantive requirements for the transportation of industrial solid and hazardous wastes; requirements for the location, design, construction, operation, and closure of solid waste management facilities.	Guidelines to promote the proper collection, handling, storage, processing, and disposal of industrial solid waste or municipal hazardous waste in a manner consistent with the purposes of Texas Health and Safety Code, Chapter 361. Solid nonhazardous waste provisions are applicable if material is transported to an upland disposal facility.
30 TAC Part 1: Texas Risk Reduction Program (TRRP) Institutional Controls (ICs)	30 TAC Chapter 350.111	Whenever required by this chapter, the person or landowner shall file a copy of the appropriate deed notice, voluntary cleanup program certificate of completion or restrictive covenant in the real property records of the county in which the property is located to notify future owners of any limitations on the use of the property. The chapter includes descriptions of the information required to be recorded.	In general, any substantive portion of a state IC law or regulation that meets the requirements of CERCLA §121(d) and is consistent with the NCP (e.g., 40 C.F.R. §300.400(g)(4)) may be considered as a potential ARAR. Substantive standards typically establish a level or standard of control, and may include a narrative requirement; in the context of ICs, a substantive requirement could be one that, for example, is designed to protect human health and the environment by requiring land use or activity use restrictions on property with residual contamination where that residual contamination makes the property unsuitable for specific land uses. A portion of a state IC law or regulation that requires mechanisms or procedures (e.g., state-approved recordation) to implement the IC may be considered part of the substantive ARAR requirement if it provides for enforceability of the IC (USEPA 2012).
30 TAC Part 1: Industrial Solid Waste and Municipal Hazardous Waste: Generators	30 TAC Chapter 335, Subchapter C	Standards for hazardous waste generators either disposing of waste on site or shipping off site with the exception of conditionally exempt small quantity generators. The definition of hazardous involves state and federal standards.	The sediment at the site is not listed hazardous waste, does not contain listed hazardous waste, and does not meet any of the characteristics of hazardous waste. Therefore, the rules for hazardous waste are neither applicable nor relevant and appropriate.
Texas Surface Water Quality Standards (TSWQS)	30 TAC §307.4-7, 10	These state regulations provide: <ul style="list-style-type: none"> <li>• General narrative criteria</li> <li>• Anti-degradation Policy</li> <li>• Numerical criteria for pollutants</li> <li>• Numerical and narrative criteria for water-quality related uses (e.g., human use)</li> <li>• Site-specific criteria for Patrick Bayou</li> </ul>	The TSWQS are considered an ARAR for PCBs. Currently, the TSWQS saltwater chronic criterion for total PCBs is 30 ng/L and the TSWQS human health criterion 'fish only' for total PCBs is 0.64 ng/L. USEPA has directed that the RAO for total PCBs in surface water be set to the TSWQS, or to background, if higher.
Texas Water Quality: Pollutant Discharge Elimination System (TPDES)	30 TAC §279.10	These state regulations require stormwater discharge permits for either industrial discharge or construction-related discharge. The State of Texas was authorized by USEPA to administer the NPDES program in Texas on September 14, 1998 (Texas Commission on Environmental Quality 2009).	The remedial alternatives include no off-site remedial actions that would trigger the need for a discharge permit.
Texas Water Quality: Water Quality Certification	30 TAC §279.10	These state regulations establish procedures and criteria for applying for, processing, and reviewing state certifications under CWA, §401. It is the purpose of this chapter, consistent with the Texas Water Code and the federal CWA, to maintain the chemical, physical, and biological integrity of the state's waters.	The development and evaluation of remedial alternatives considers potential water quality impacts relevant to the Water Quality Certification in Texas.
Texas Risk Reduction Program (TRRP)	30 TAC §350	Activated upon release of Chemicals of Concern (COC). The Risk Reduction Program uses a tiered approach incorporating risk assessment techniques to help focus investigations, to determine appropriate protective concentration levels for human health, and, when necessary, for ecological receptors. Includes protective concentration levels.	The development of the Preliminary Remediation Goal is consistent with state requirements, including the TRRP.

**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs	Citation	Summary	Comment
Natural Resources Code, Antiquities Code of Texas	Texas Parks and Wildlife Commission Regulations 191.092-171	Requires that the Texas Historical Commission staff review any action that has the potential to disturb historic and archeological sites on public land. Actions that need review include any construction program that takes place on land owned or controlled by a state agency or a state political subdivision such as a city or a county. Without local control, this requirement does not apply.	Disturbance of any archaeological or historic resources is unlikely due to the highly modified nature of the site and focus of action within the sediments as opposed to upland areas. The magnitude and specific boundaries of ground disturbance were considered in the development of the remedial alternatives, and implementation of the remedy should not disturb archaeological or historic resources. Additional review will be performed after specific implementation plans are developed.
Practice and Procedure, Administrative Code of Texas	13 TAC Part 2, Chapter 26	Regulations implementing the Antiquities Code of Texas. Describes criteria for evaluating archaeological sites and permit requirements for archaeological excavation.	This requirement is only applicable if an archaeological site is found.
State of Texas Threatened and Endangered Species Regulations	31 TAC 65.171 - 65.176	No person may take, possess, propagate, transport, export, sell or offer for sale, or ship any species of fish or wildlife listed as threatened or endangered.	The Baseline Ecological Risk Assessment considered the list of rare, threatened, and endangered species that may be found in Harris County and concluded that none of the listed species would use the site other than potentially incidentally. Implementation of any of the remedial alternatives should not impact these species.
TCCC Policies for Development in Critical Areas	31 TAC §501.23	Dredging in critical areas is prohibited if activities have adverse effects or degradation on shellfish and/or jeopardize the continued existence of endangered species or results in an adverse effect on a coastal natural resource area (CNRA) <sup>5</sup> ; prohibit the location of facilities in coastal natural resource areas unless adverse effects are prevented and/or there is no practicable alternative. Actions should not be conducted during spawning or nesting seasons or during seasonal migration periods. Specifies compensatory mitigation.	If the selected remedy includes construction of a cap, coordination with the Coastal Zone Permit Coordinator would need to be performed prior to implementing the remedy.
Texas Coastal Management Plan Consistency	31 TAC, §506.12	Specifies Federal actions within the CMP boundary that may adversely affect CNRAs; specifically selection of remedial actions.	Patrick Bayou lies within the Coastal Zone Boundary (GLO TCMP). If the selected remedy includes construction of a cap, coordination with the Coastal Zone Permit Coordinator would need to be performed prior to implementing the remedy.
Texas State Code – Obstructions to Navigation	Natural Resources Code § 51.302 Prohibition and Penalty	Prohibits construction or maintenance of any structure or facility on land owned by the State without an easement, lease, permit, or other instrument from the State.	If the selected remedy includes construction of a cap, coordination with the Texas General Land Office would need to be performed prior to implementing the remedy.
Noise Regulations	Texas Penal Code Chapter 42, Section 42.01	The Texas Penal Code regulates any noise that exceeds 85 decibels after the noise is identified as a public nuisance.	Noise abatement may be required if actions are identified as a public nuisance. Due to the isolation of the site, its location adjacent to a freeway with high volumes of traffic during normal working hours, and the industrial nature of the nearest properties, noise from construction activity associated with a potential remedial action is unlikely to constitute a public nuisance. Noise associated with truck traffic to and from the site should be considered.

<sup>5</sup> A CNRA is a coastal wetland, oyster reef, hard substrate reef, submerged aquatic vegetation, tidal sand, or mud flat.

**Table 3-2  
Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

Potential ARARs	Citation	Summary	Comment
<b>Local</b>			
Harris County Floodplain Management Permit <sup>6</sup>	Regulations of Harris County, Texas, for Flood Plain Management	All development occurring within the floodplain of unincorporated Harris County requires a permit from Harris County; provide land use controls necessary to qualify unincorporated areas of Harris County for flood insurance under requirements of the National Flood Insurance Act of 1968, as amended, to protect human life and health (Harris County 2007).	Floodplain management is addressed under the Federal requirements for floodplains.

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<sup>6</sup> Harris County authorization is based upon Texas Local Government Code Section 240.901, as amended; Texas Transportation Code Sections 251.001 - 251.059 and Sections 254.001 - 254.019, as amended; the Harris County Road Law, as amended; and the Flood Control and Insurance Act, Subchapter I of Chapter 16 of the Texas Water Code, as amended.

**Table 3-2**  
**Potential ARAR Screening for Patrick Bayou Superfund Site, Feasibility Study Report**

References:

- CFR (Code of Federal Regulations), 1985. "40 CFR Appendix A to Part 6 - Statement of Procedures on Floodplain Management and Wetlands Protection." *vLex United States*. June 25, 1985 as amended. <http://cfr.vlex.com/vid/appendix-6-statement-floodplain-wetlands-19781438>. Harris County Flood Control District, 2007. *FEMA Floodplains Effective June 18, 2007*. Houston, TX: Harris County, TX, 2007.
- Harris County Public Infrastructure Department, Architecture and Engineering Division (Harris County), 2007. Regulations of Harris County, Texas for Floodplain Management. As Adopted June 5, 2007. Effective June 2007. Amended November 2011. [http://hcpid.org/permits/fp\\_regs.html](http://hcpid.org/permits/fp_regs.html). (Accessed April 13, 2012).
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**Table 4-1  
Mean PEL-Q and Half-life Evaluation**

Location	2009 Mean PEL-Q	Scenario 1 No Action Taken in SMA-1 (Alternatives 1 and 2)		Scenario 2 Capping in SMA-1 (Alternatives 3 and 4)	
		Half-life – Natural Recovery Only (years)	Time Needed to Reach Mean PEL-Q Threshold (years)	Half-life – Remediation of SMA-1 (years)	Time Needed to Reach Mean PEL-Q Threshold (years)
PB-001.1	14.7	6	10.3	3	5.2
PB-016A	15.2	6	10.6	3	5.3
PB-018	16.3	6	11.2	3	5.6
PB-026	166.5	5	26.1	5	26.1
PB-032	80.7	13	54.3	12	50.1
PB-034	8.7	13	12.4	12	11.5
PB-036	15.9	13	23.8	12	22.0
PB-037	13.9	13	21.3	12	19.7
PB-041A	14.2	9	15.0	7	11.7
PB-043	10.6	9	11.2	7	8.7
PB-044A	10.4	9	11.0	7	8.6
PB-047.1	26.7	9	23.2	7	18.1
PB-053A	129.7	5	24.3	2	9.7
PB-059.1	62.5	5	19.0	2	7.6
PB-063.1	43.4	5	16.4	3	9.8
PB-069	58.8	5	18.6	3	11.2
PB-081	49.1	3	10.4	3	6.9

Note:  
PEL-Q = Probable Effects Level-Quotient



**Table 4-2**  
**Summary of SMA Delineation**

<b>ID<sup>1</sup></b>	<b>Location</b>	<b>Acreage<sup>2</sup></b>	<b>Reason for Delineation</b>
SMA-1	PB-075 to PB-082	0.63	Surface Water RAO
SMA-2	PB-032	0.73	Future <sup>3</sup> exceeds Benthic RAO
SMA-3	PB-026	0.79	Future <sup>3</sup> exceeds Benthic RAO
SMA-4	PB-047.1	1.31	Future <sup>3</sup> exceeds Benthic RAO
SMA-5	PB-036	0.70	Future <sup>3</sup> exceeds Benthic RAO
SMA-6	PB-037	0.74	Future <sup>3</sup> exceeds Benthic RAO
SMA-7	PB-041A	0.81	Future <sup>3</sup> exceeds Benthic RAO
SMA-8	PB-034	0.76	Future <sup>3</sup> exceeds Benthic RAO
SMA-9	PB-069	0.71	Future <sup>3</sup> exceeds Benthic RAO
Natural Recovery Areas	See Figure 4-1	26.6	Baseline <sup>4</sup> exceeds Benthic RAO

Notes:

- 1 - SMA-2 through SMA-9 were delineated using MNR rates that assume potential downstream loading of PCBs from SMA-1 is resolved.
- 2 - Acreage is based on Thiessen polygon areas. For FS cost purposes, a 20 percent contingency has been added, and additional area has been added to account for bank-to-bank capping where ACBM is used. Thus, the areas presented in the Appendix C costs do not match the areas presented in this table.
- 3 - Predicted to exceed benthic Remedial Action Objective (RAO) after 10 years of natural recovery
- 4 - Currently exceeds benthic RAO but predicted to fall below mean Probable Effects Level-Quotient threshold of 4.47 within 10 years

**Table 4-3  
Aggregate Cap Armor Sizing**

SMA	Cap Armor Stone $d_{50}$ (inches) <sup>1</sup>	Minimum Armor Layer Thickness (feet) <sup>2,3</sup>
1	37	6.5
2	8	1.5
3	9	1.5
4	0.5	0.25
5	6	1.0
6	6	1.0
7	2.5	5
8		
9	6	1.0

Notes:

1 -  $d_{50}$  is based on the 100-year storm event.

2 - Minimum armor layer thickness shown for SMA-1, -2, -3, -5 and -6 is based on  $2*d_{50}$  dimension.

3 - Minimum armor layer thickness for SMA-4 is shown as the thinnest layer considered reasonably constructible, which is greater than the thickness determined based on the  $2*d_{50}$  dimension.

SMA = sediment management area

**Table 4-4  
Summary of Quantities, Durations, and Short-term Impacts**

	<b>Alternative 2 Monitored Natural Recovery (MNR)</b>	<b>Alternative 3 MNR, SMA-1 Capping &amp; SMA-2 through SMA-9 Treatment</b>	<b>Alternative 4 MNR &amp; SMA-1 to 9 Capping</b>
<b>Site Preparation</b>			
Mobilization/Demobilization duration (days)	N/A	5	5
Environmental controls & survey duration (days)	N/A	10	10
Debris removal duration (days)	N/A	5	5
Site Preparation Equipment Hours	N/A	175	250
Site Preparation Labor Hours	N/A	575	700
<b>In Situ Treatment</b>			
In Situ Treatment area (sf)	N/A	343,000	0
In Situ Treatment duration (days)	N/A	86	0
In Situ Treatment Equipment Hours	N/A	3,200	0
In Situ Treatment Labor Hours	N/A	9,700	0
<b>ACBM Capping</b>			
ACBM placement area - constrained channel (sf)	N/A	70,200	70,200
ACBM placement area - open channel (sf)	N/A	0	597,000
ACBM placement duration (days)	N/A	23	71
ACBM Equipment Hours	N/A	1,200	4,250
ACBM Labor Hours	N/A	3,300	12,000
<b>TOTAL DURATION (months)</b>	<b>N/A</b>	<b>6</b>	<b>5</b>
<b>TOTAL EQUIPMENT HOURS</b>	<b>N/A</b>	<b>4,600</b>	<b>4,500</b>
<b>TOTAL LABOR HOURS</b>	<b>N/A</b>	<b>13,600</b>	<b>12,700</b>
<b>TOTAL NON-FATAL INJURIES</b>	<b>N/A</b>	<b>0.27</b>	<b>0.25</b>
<b>TOTAL FATAL INJURIES</b>	<b>N/A</b>	<b>0.0011</b>	<b>0.0010</b>
<b>NORMALIZED IMPACTS</b>			
<b>Equipment Hours</b>		<b>1.0</b>	<b>1.0</b>
<b>Health and Safety</b>		<b>1.0</b>	<b>0.9</b>

**Table 4-4**  
**Summary of Quantities, Durations, and Short-term Impacts**

Notes:

1 - Durations assume a 22-day month, rounded up

2 - Production rates assumed as follows:

a. ACBM placement - constrained channel- 3,000 sf/day

b. ACBM placement - open channel - 12,500 sf/day

c. In situ treatment - 4,000 sf/day

3 - Incident rates based on data from U.S. Department of Labor (USDL), Bureau of Labor Statistics (USDL 2011).

4 - Non-fatal injury estimate based on a rate of 3.9 per 200,000 work hours (NAICS code 23 - construction).

5 - Fatal injury estimate based on a rate of 15.7 per 200,000,000 work hours (construction laborer).

sf/day = square feet per day

USDL, 2011. *U.S. Department of Labor, Bureau of Labor Statistics, OSHA Recordable Case Rates and Census of Fatal Occupational Injuries, 2011*

**Table 5-1  
Detailed Evaluation of Remedial Alternatives**

	<b>Alternative 1 No Further Action</b>	<b>Alternative 2 MNR</b>	<b>Alternative 3 MNR, SMA-1 Capping, and SMA-2 through SMA-9 Treatment</b>	<b>Alternative 4 MNR and SMA-1 through SMA-9 Capping</b>
<b>Threshold Criteria</b>				
Overall Protection	Does not meet	Uncertain	Meets	Meets
Compliance with ARARs	Does not Meet	Meets	Meets	Meets
<b>Balancing Criteria</b>				
Long-term Effectiveness	<ul style="list-style-type: none"> <li>Not evaluated because threshold criteria not met</li> </ul>	<ul style="list-style-type: none"> <li>PCB surface water RAO met throughout the site after 9 to 21 years based on analytical evaluation of PCB half lives</li> <li>Benthic risk potentially not addressed within reasonable time frame in some areas of the Site</li> </ul>	<ul style="list-style-type: none"> <li>PCB surface water RAO met throughout the Site within 7 years after completing construction based on modeling results</li> <li>Benthic risk addressed in reasonable time frame in SMA-1 by capping, assuming sediment deposition on cap surface would provide a suitable benthic substrate over time.</li> <li>Benthic risk addressed within less than 3 years through treatment of surface sediments with activated carbon in SMA-2 through SMA-9</li> <li>Adaptive management approach would facilitate modifying monitoring schedule and/or allow for future actions to be taken if necessary</li> </ul>	<ul style="list-style-type: none"> <li>PCB surface water RAO met throughout the Site within 7 years after completing construction based on modeling results</li> <li>Benthic risk addressed in reasonable time frame in SMA-1 through SMA-9 by capping, assuming sediment deposition on cap surface would provide a suitable benthic substrate over time.</li> <li>Adaptive management approach would facilitate modifying monitoring schedule and/or allow for future actions to be taken if necessary</li> <li>Adaptive management options are more limited in areas where ACBM caps have been constructed because the hard substrate of ACBM would prevent access to the sediments that are capped.</li> </ul>
Reduction of TMV	<ul style="list-style-type: none"> <li>Not evaluated because threshold criteria not met</li> </ul>	<ul style="list-style-type: none"> <li>No additional reduction in TMV beyond that achieved by natural recovery processes</li> </ul>	<ul style="list-style-type: none"> <li>Reactive Core Mat (RCM) underlayment beneath the ACBM cap in SMA-1 expected to reduce near-surface porewater concentrations of PCBs by 99% for at least 100 years</li> <li>Bioavailability reduction of more than 90% expected for benthic risk ICs by treatment of surface sediments with activated carbon</li> </ul>	<ul style="list-style-type: none"> <li>RCM underlayment beneath the ACBM cap in SMA-1 expected to reduce near-surface porewater concentrations of PCBs by 99% for at least 100 years</li> </ul>

**Table 5-1  
Detailed Evaluation of Remedial Alternatives**

	<b>Alternative 1 No Further Action</b>	<b>Alternative 2 MNR</b>	<b>Alternative 3 MNR, SMA-1 Capping, and SMA-2 through SMA-9 Treatment</b>	<b>Alternative 4 MNR and SMA-1 through SMA-9 Capping</b>
Short-term Effectiveness	<ul style="list-style-type: none"> <li>Not evaluated because threshold criteria not met</li> </ul>	<ul style="list-style-type: none"> <li>Achieve surface water protection after an estimated 9 to 21 years based on natural recovery modeling</li> <li>Uncertain time frame for reducing potential benthic risk</li> <li>Negligible short term impacts related to water quality, air quality, noise, traffic, and worker health and safety</li> </ul>	<ul style="list-style-type: none"> <li>Achieve surface water protection within 7 years following completion of implementation</li> <li>Reduce benthic risk to acceptable levels within 3 years following completion of implementation in SMA-2 through SMA-9</li> <li>Manageable water quality impacts from turbidity during sediment treatment</li> <li>Localized disturbance to the top of bank along the bayou where construction equipment would be staged and ACBM would be anchored</li> <li>Potential production facility impacts during 5 to 7 month duration of the project</li> <li>0.27 estimated construction worker injuries</li> <li>0.0011 estimated construction worker fatalities</li> <li>Air emissions from 4,600 hours of equipment operations</li> </ul>	<p>Same as Alternative 3 with the following modifications:</p> <ul style="list-style-type: none"> <li>Reduce benthic risk to acceptable levels within 10 years, following deposition of new sediment onto cap surface that will create a habitat-compatible substrate</li> <li>Manageable water quality impacts from turbidity during capping</li> <li>Widespread disturbance to the top of bank along the bayou where construction equipment would be staged and ACBM would be anchored</li> <li>Minimal sediment quality impacts associated with implementation</li> <li>No tissue impacts associated with implementation</li> <li>Potential production facility impacts during 5 to 7 month duration of the project</li> <li>0.25 estimated construction worker injuries</li> <li>0.001 estimated construction worker fatalities</li> <li>Air emissions from 4,500 hours of equipment operations</li> </ul>

**Table 5-1  
Detailed Evaluation of Remedial Alternatives**

	<b>Alternative 1 No Further Action</b>	<b>Alternative 2 MNR</b>	<b>Alternative 3 MNR, SMA-1 Capping, and SMA-2 through SMA-9 Treatment</b>	<b>Alternative 4 MNR and SMA-1 through SMA-9 Capping</b>
Implementability	<ul style="list-style-type: none"> <li>Not evaluated because threshold criteria not met</li> </ul>	<ul style="list-style-type: none"> <li>Minimal implementability issues associated with sample collection adjacent to active industrial operations</li> </ul>	<ul style="list-style-type: none"> <li>Capping with ACBM has been demonstrated as implementable at sites with similar constraints</li> <li>Hand labor can be used to construct the cap in difficult areas</li> <li>Low profile of ACBM minimizes the need to dredge the channel to maintain flood capacity</li> <li>Specialized equipment and a highly trained contractor work force may be required to mix AC into surface sediments</li> <li>Treatment by mixing AC into sediments could cause turbidity issues that need to be managed with engineering controls such as silt curtains or similar barriers</li> <li>Coordination with the railroad will be necessary for capping adjacent to the bridge in the railroad right-of-way</li> <li>Utilities and facility infrastructure on the banks may require several different types of anchoring details</li> <li>Construction within active production facilities can present implementability challenges for contractor safety, access and scheduling</li> </ul>	<p>Same as Alternative 3 but:</p> <ul style="list-style-type: none"> <li>ACBM is not as technically challenging to construct compared to treatment, and would not require specialized equipment</li> <li>Placement of ACBM cap less likely to create turbidity issues than mixing AC into surface sediments</li> <li>In wider channel areas, the contractor may have more difficulty deploying the ACBM textiles due to the size of the panels, and/or may need to take additional measures to ensure the grout fully fills the ACBM textile in the middle of the channel</li> <li>If dredging is determined to be necessary to maintain flood capacity in the channel, the implementability of this alternative is much more difficult.</li> <li>ACBM capping implementability issues are magnified because a much larger area of the Site would be capped</li> </ul>
<b>Total Cost</b>	<b>N/A</b>	<b>\$710,000</b>	<b>\$6,730,000</b>	<b>\$13,020,000</b>
<b>Modifying Criteria<sup>1</sup></b>				
State Acceptance	N/A	T.B.D.	T.B.D.	T.B.D.
Community Acceptance	N/A	T.B.D.	T.B.D.	T.B.D.

Notes:

1 - Modifying criteria will be evaluated by U.S. Environmental Protection Agency after receipt of comments on the Proposed Plan for the Site.

AC = activated carbon

ACBM = Articulated Concrete Block Mat

ARARs = Applicable or Relevant and Appropriate Requirements

IC = indicator chemical

MNR = Monitored Natural Recovery

N/A = Not Applicable

PCB = polychlorinated biphenyl

RAO = Remedial Action Objective

T.B.D. = To Be Determined

TMV = toxicity, mobility, or volume

**Table 6-1  
Comparative Evaluation of Remedial Alternatives**

Criterion	Alternative 2	Alternative 3	Alternative 4
	MNR	MNR, SMA-1 Capping and SMA-2 through SMA-9 Treatment	MNR and SMA-1 through SMA-9 Capping
Overall Protection	Uncertain	Similar to Alternative 4	Similar to Alternative 3
Compliance with ARARs	Uncertain	Most Favorable	Middle
Long-term Effectiveness	Uncertain	Similar to Alternative 4	Similar to Alternative 3
Reduction in TMV	Least Favorable	Most Favorable	Middle
Short-term Effectiveness	Uncertain	Most Favorable	Middle
Implementability	Most Favorable	Similar to Alternative 4	Similar to Alternative 3
Cost	Most Favorable	Middle	Least Favorable

Notes:

ARARs = Applicable or Relevant and Appropriate Requirements

MNR = Monitored Natural Recovery

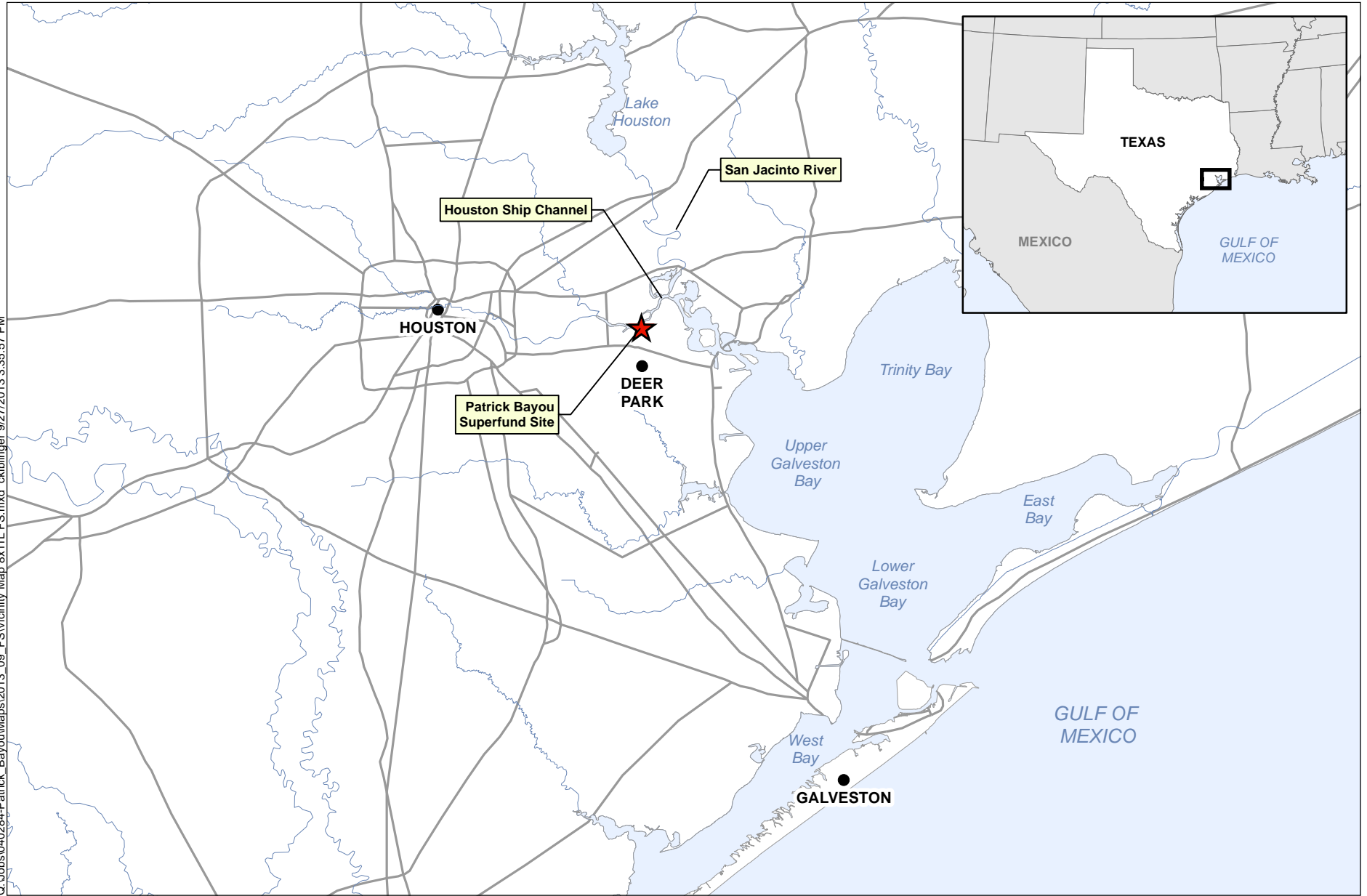
TMV = Toxicity, Mobility, or Volume



# FIGURES

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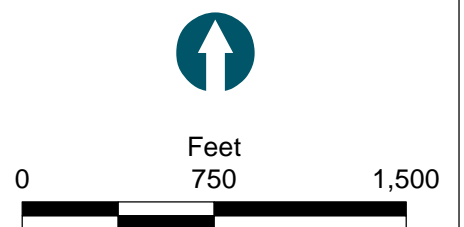
**Figure 1-1**  
Patrick Bayou Superfund Site Vicinity Map  
Patrick Bayou Feasibility Study Report  
Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



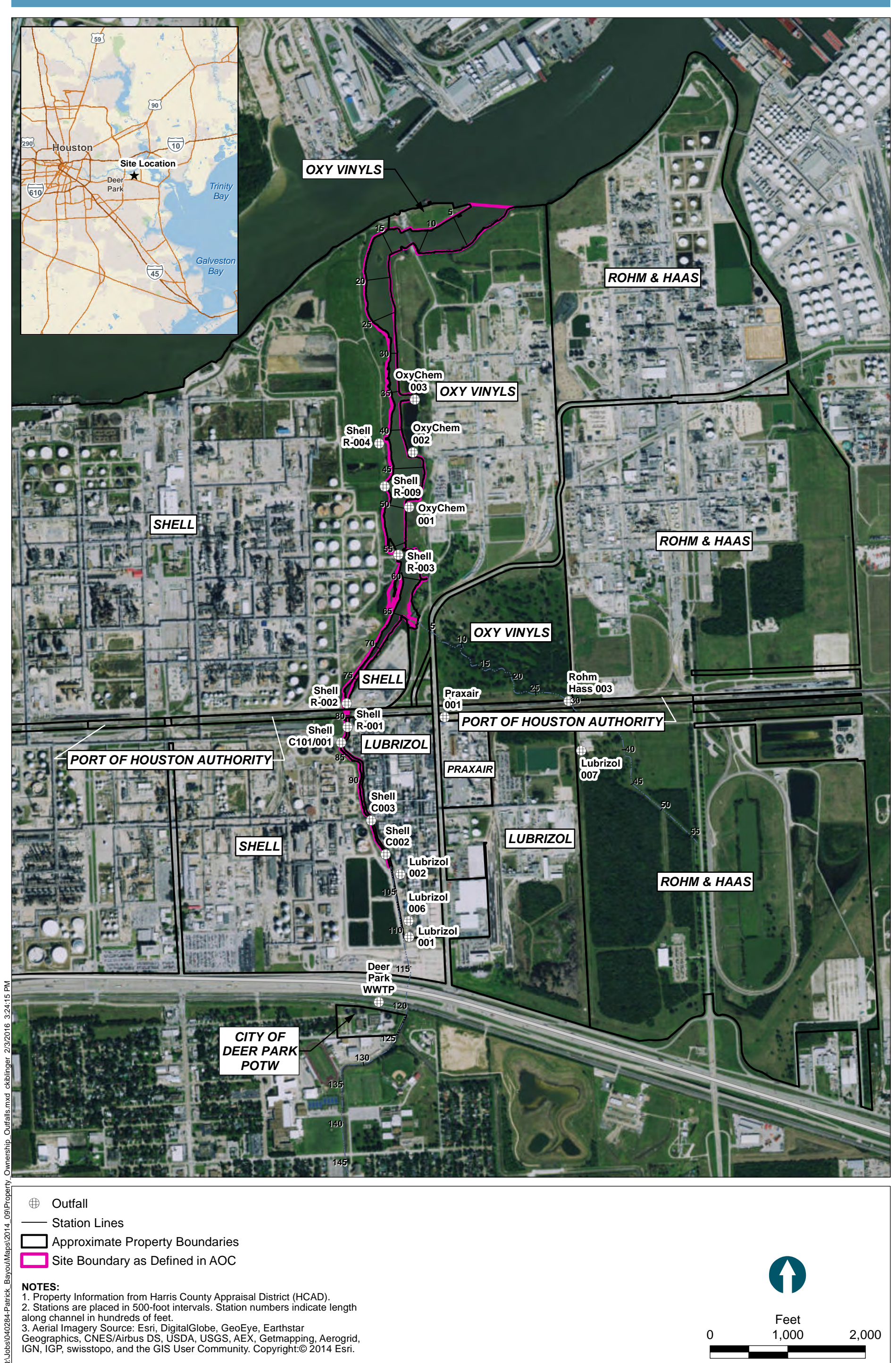
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- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: Copyright: © 2013 Esri. Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.



**Figure 2-1**  
 Patrick Bayou Superfund Site Boundaries  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

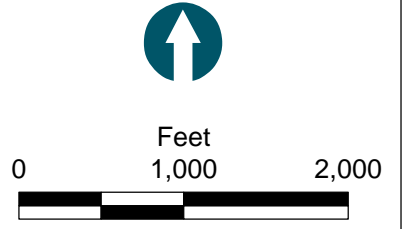


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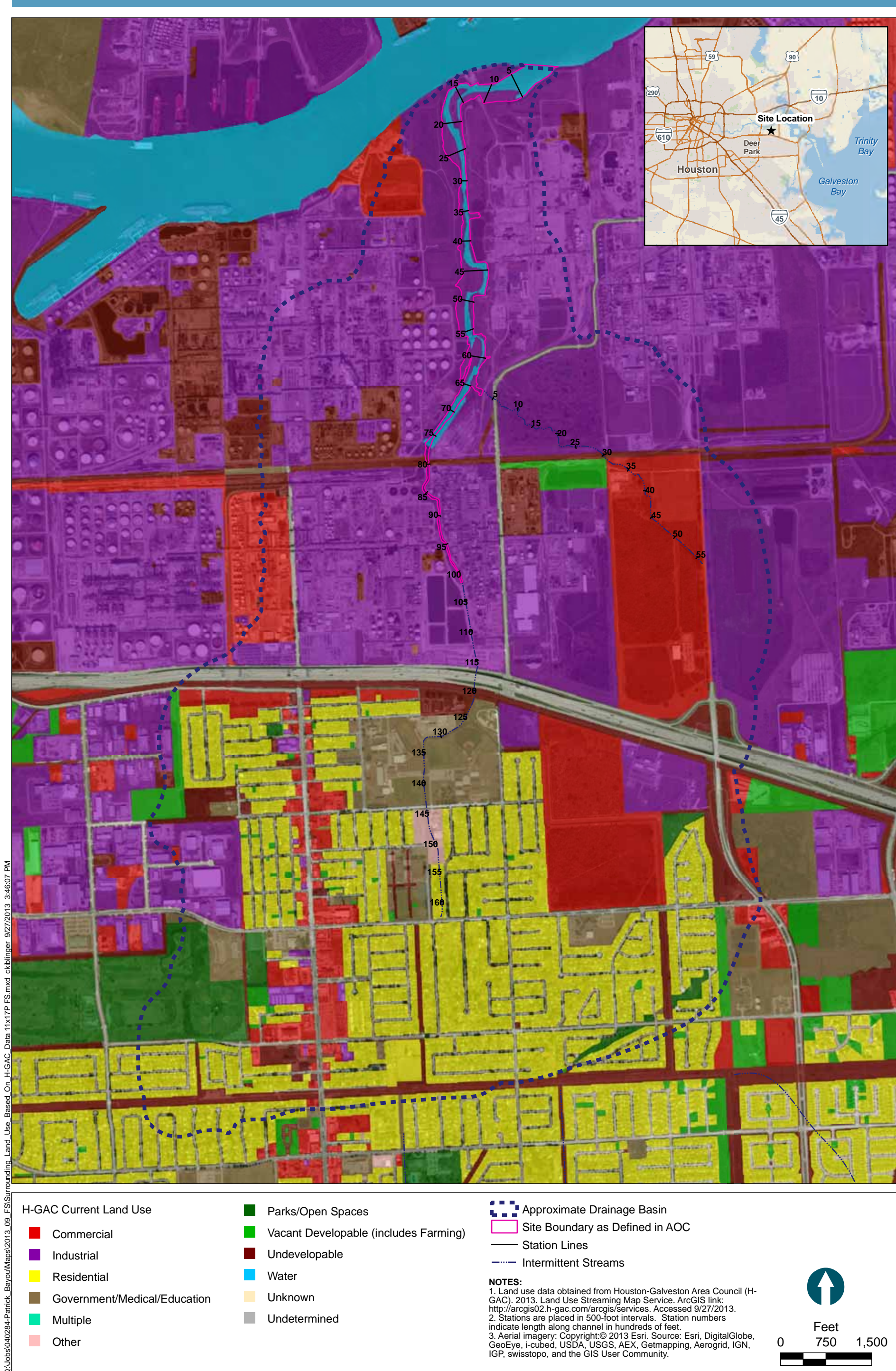
- ⊕ Outfall
- Station Lines
- ▭ Approximate Property Boundaries
- ▭ Site Boundary as Defined in AOC

**NOTES:**

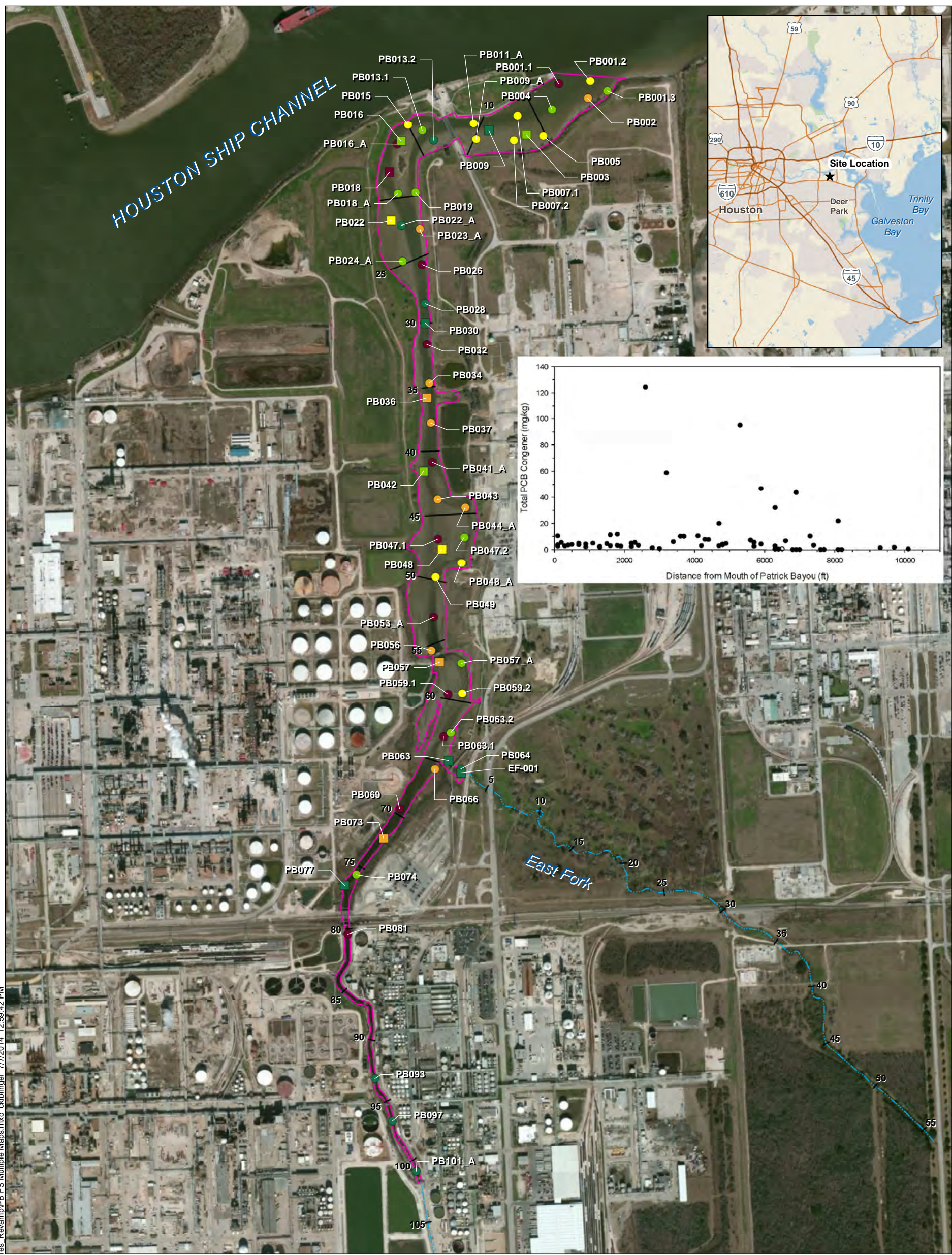
1. Property Information from Harris County Appraisal District (HCAD).
2. Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.
3. Aerial Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community. Copyright:© 2014 Esri.



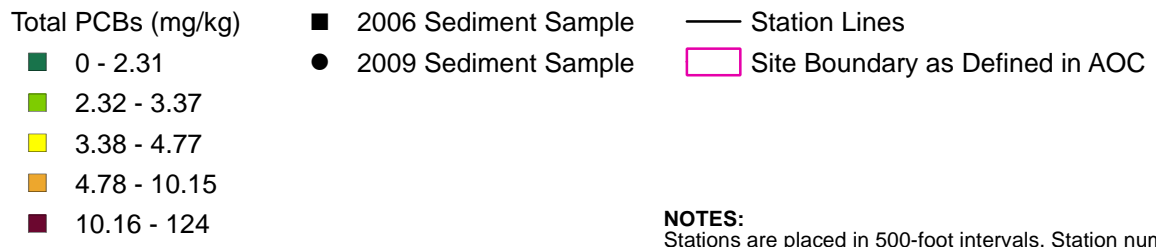
**Figure 2-2**  
 Property Ownership  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



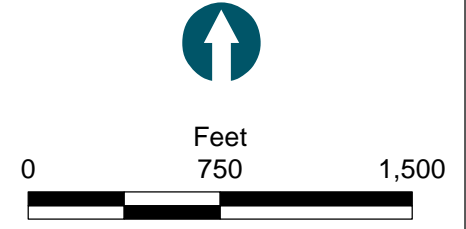
**Figure 2-3**  
 Surrounding Land Use Based on H-GAC Data  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



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**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



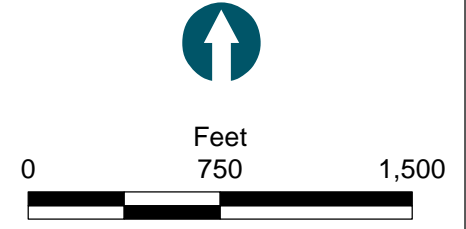
**Figure 2-4**  
 Total PCB Results in Surface Sediment Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



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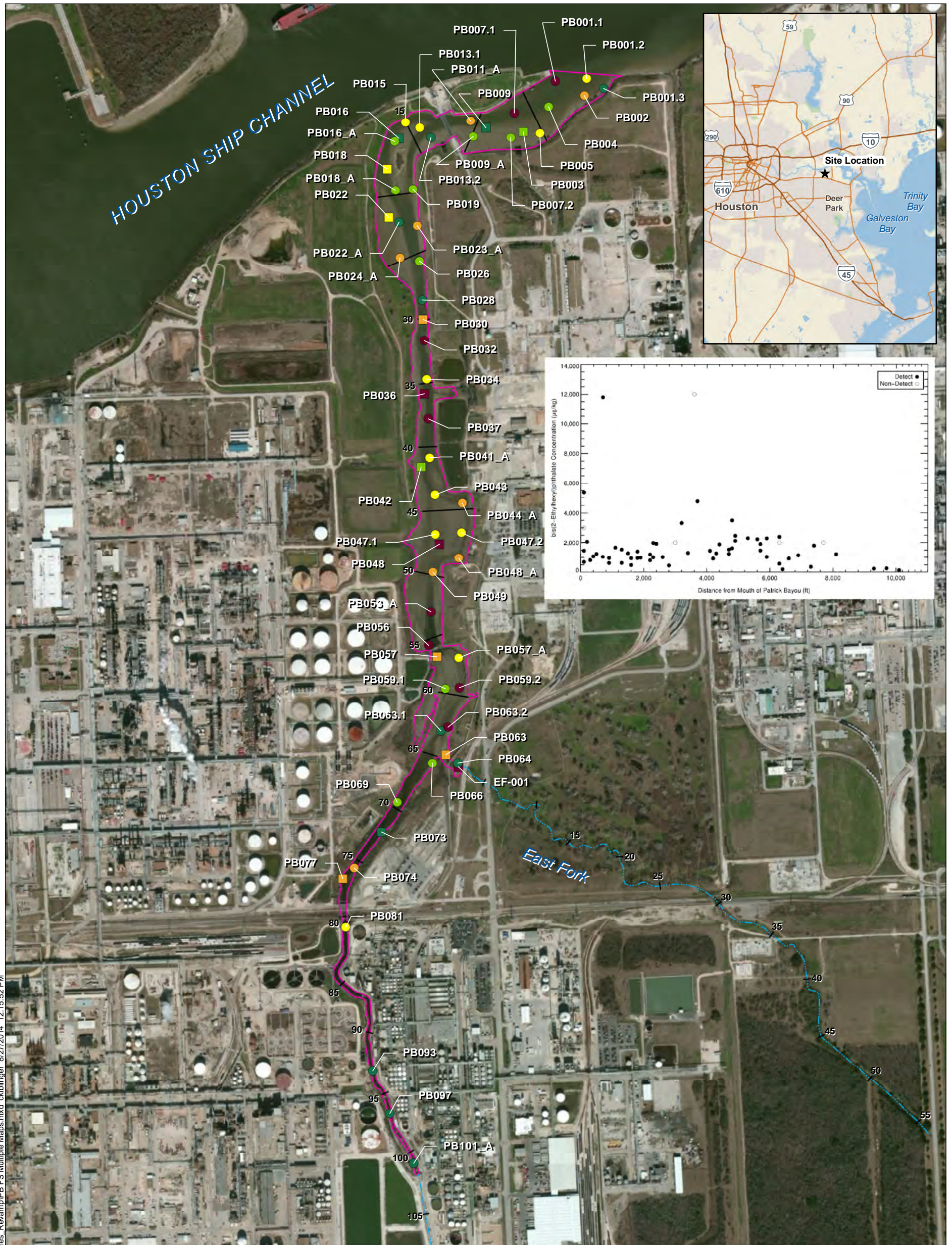
- |                          |                        |                                   |
|--------------------------|------------------------|-----------------------------------|
| <b>Total PAH (mg/kg)</b> | ■ 2006 Sediment Sample | — Station Lines                   |
| ■ 0.0164 - 7.63          | ● 2009 Sediment Sample | □ Site Boundary as Defined in AOC |
| ■ 7.64 - 12.9            | ▲ 2011 Sediment Sample |                                   |
| ■ 13.0 - 18.2            |                        |                                   |
| ■ 18.3 - 41.2            |                        |                                   |
| ■ 41.3 - 1,310           |                        |                                   |

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



**Figure 2-5**  
 Total PAH Results in Surface Sediment Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





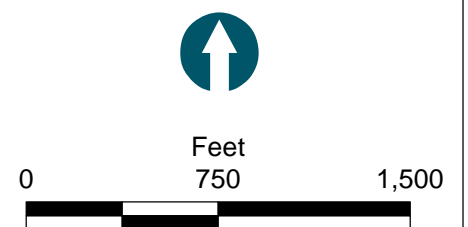
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- BEHP (µg/kg)**
- 132 - 812
  - 813 - 1,140
  - 1,150 - 1,530
  - 1,540 - 2,120
  - 2,130 - 12,000

- 2006 Sediment Sample
- 2009 Sediment Sample

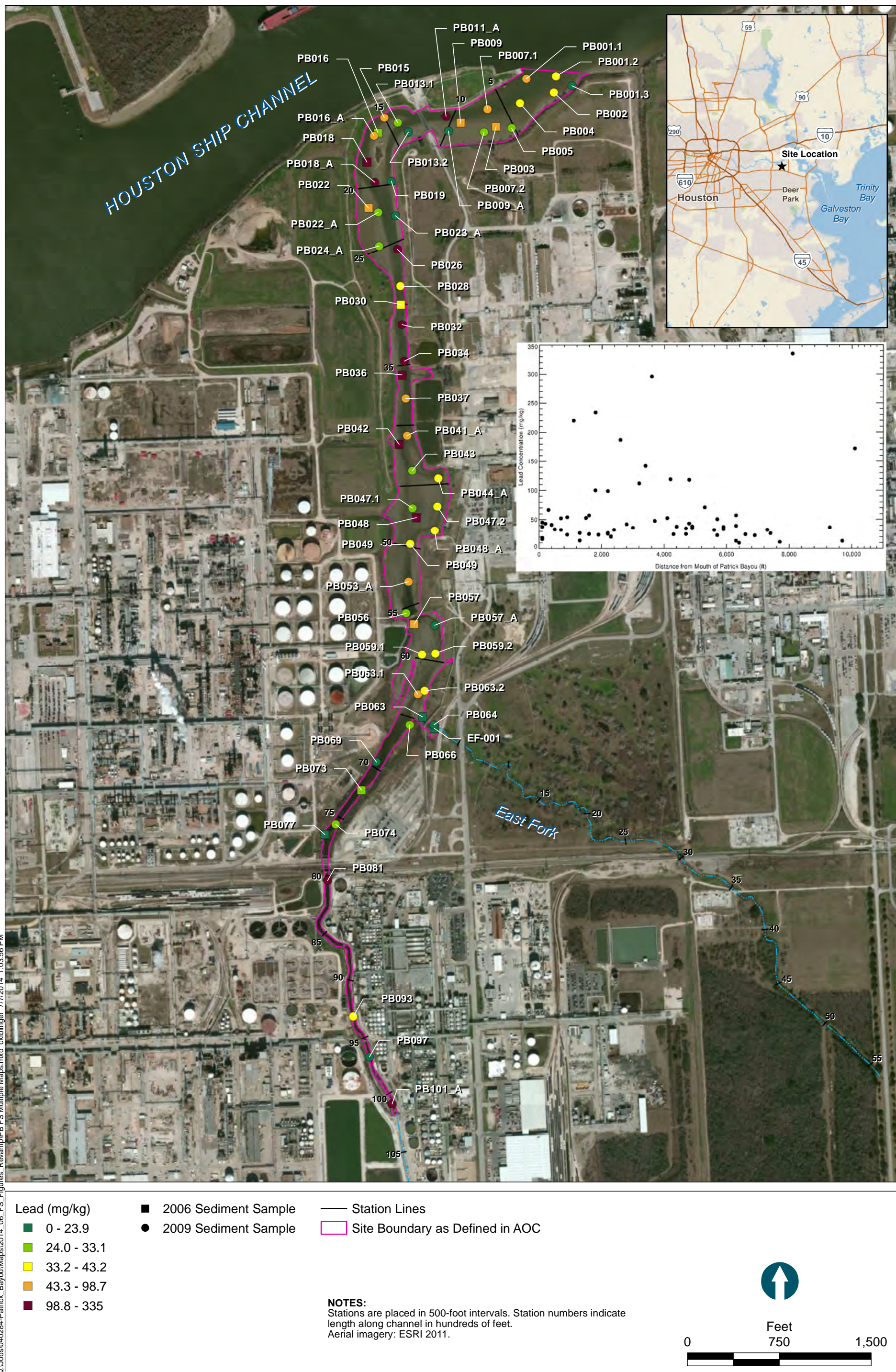
- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



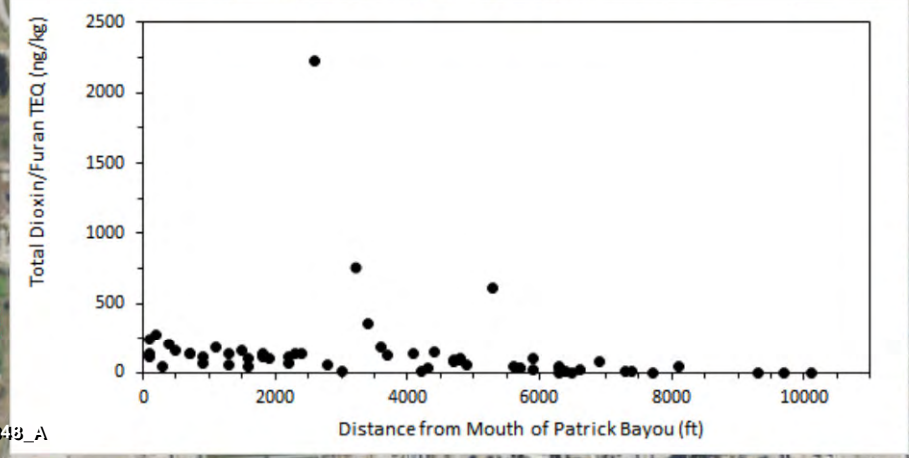
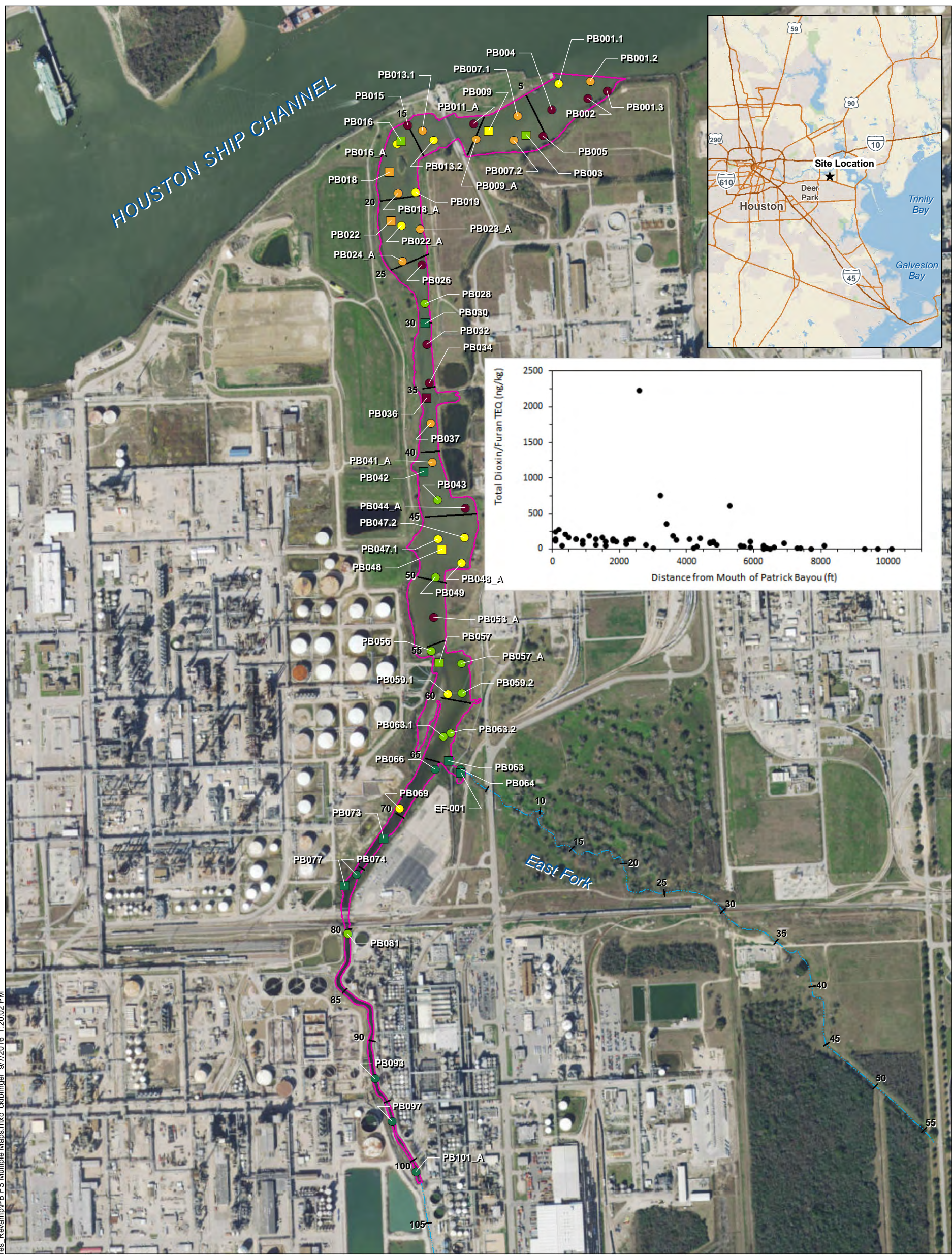
**Figure 2-6**  
 Total BEHP Results in Surface Sediment Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





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**Figure 2-7**  
 Total Lead Results in Surface Sediment Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



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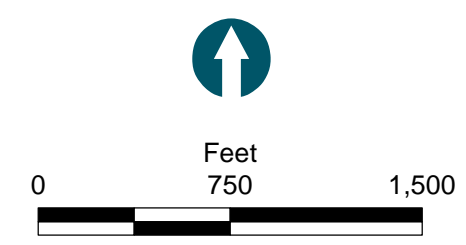
**2,3,7,8-TCDD TEQs (ng/kg)**

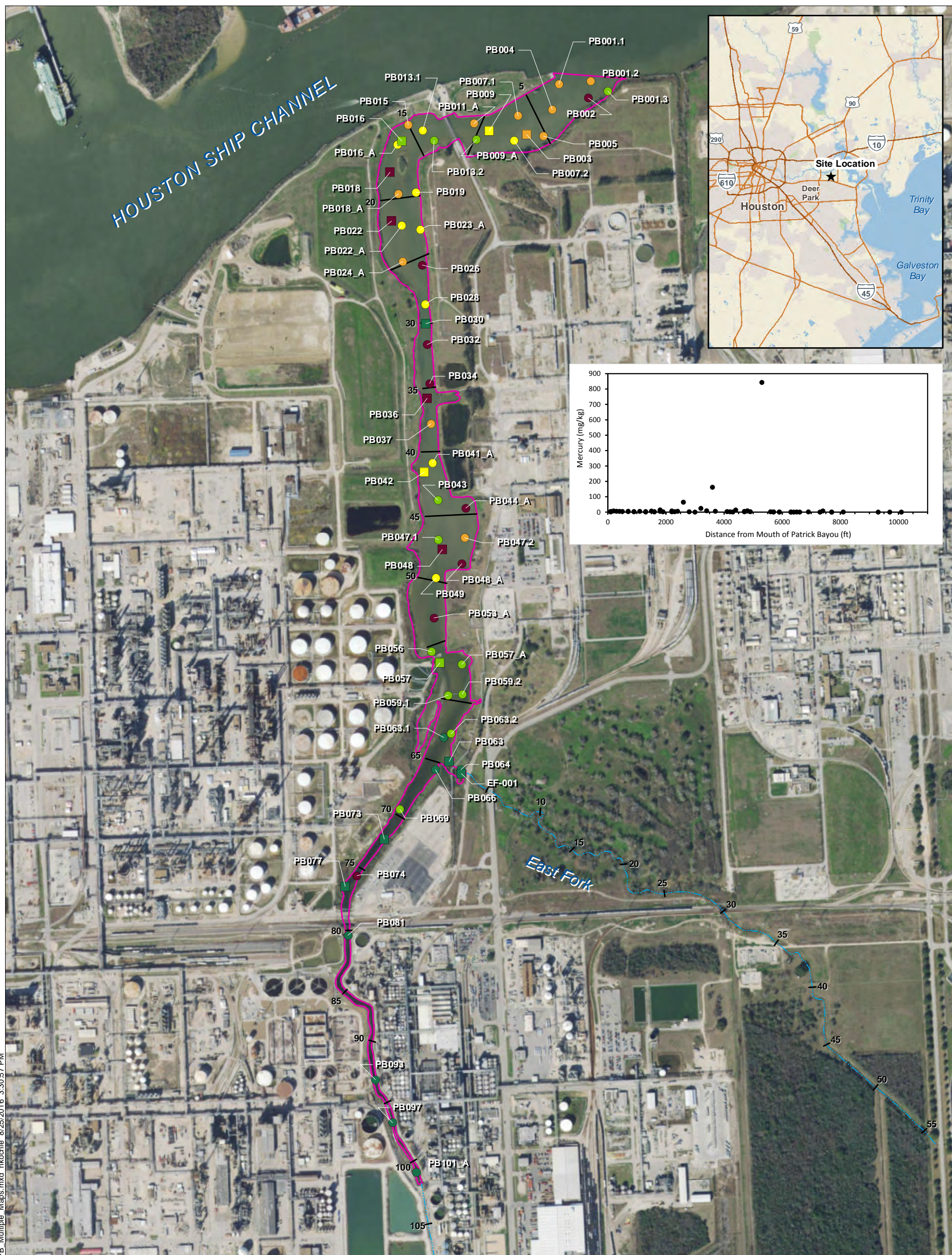
- 0 - 21.51
- 21.51 - 53.33
- 53.33 - 109.38
- 109.38 - 141.83
- 141.83 - 2223.63

- 2006 Sediment Sample
- 2009 Sediment Sample

- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





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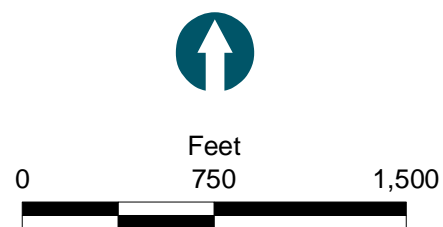
**Mercury (mg/kg)**

- 0 - 0.77
- 0.77 - 2.35
- 2.35 - 3.84
- 3.84 - 6.98
- 6.98 - 843

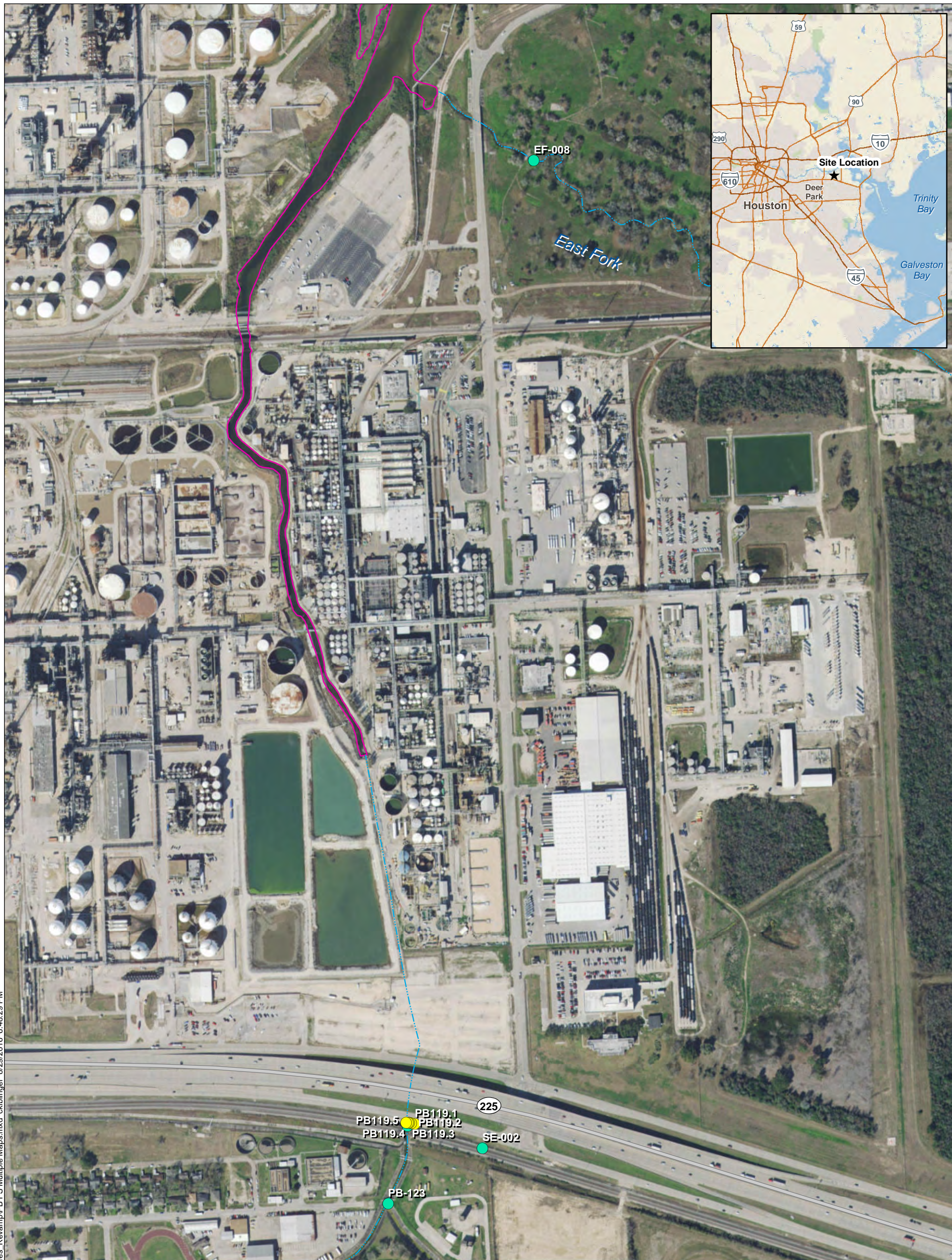
- 2006 Sediment Sample
- 2009 Sediment Sample

- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



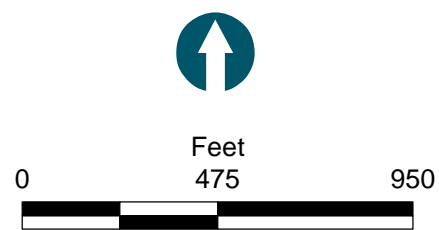
**Figure 2-9**  
 Mercury Results in Surface Sediment Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



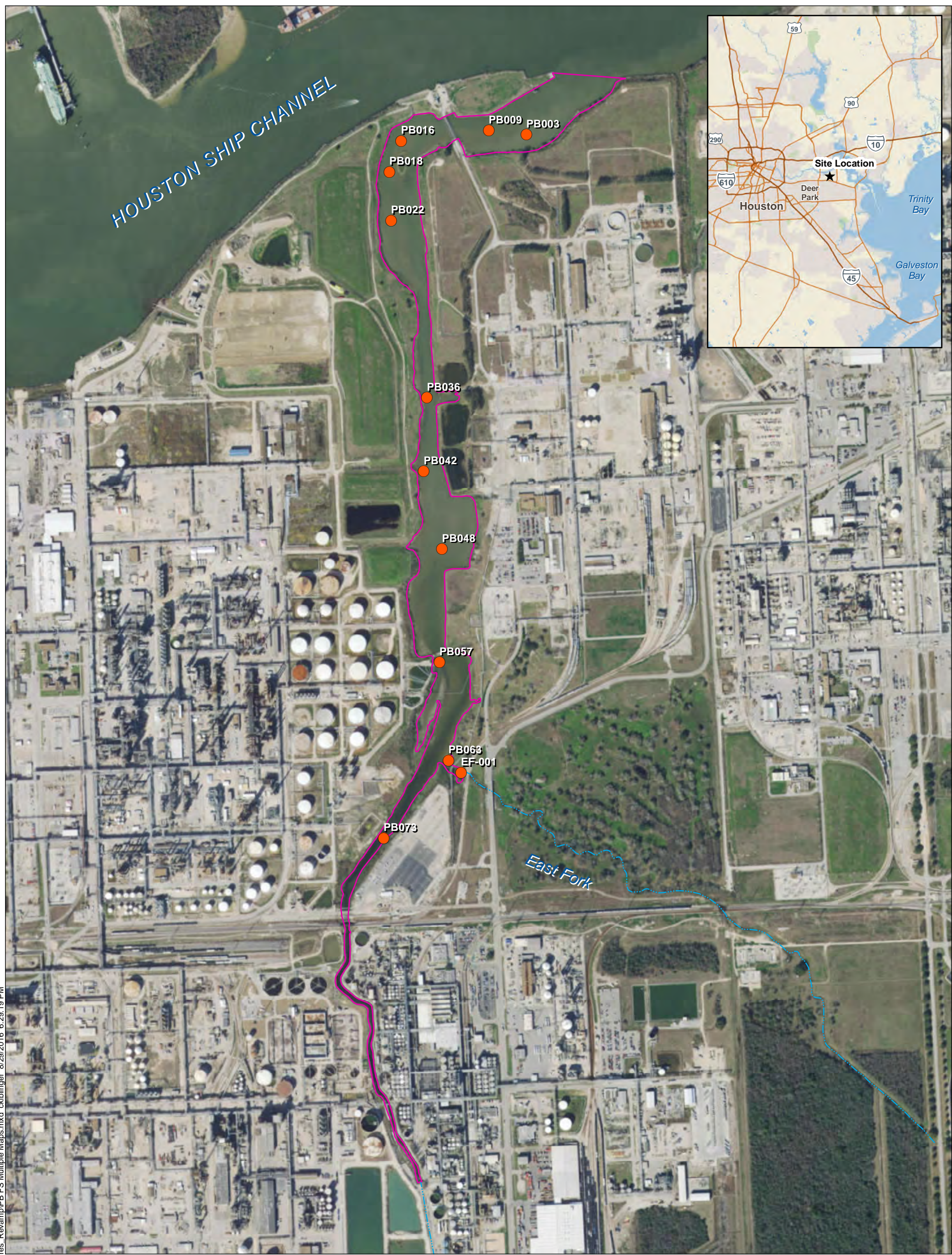
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- 2006 Sediment Sample
- 2011 Sediment Sample
- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



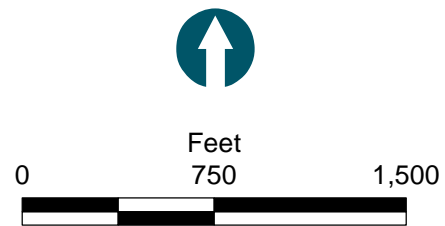
**Figure 2-10**  
 Surface Sediment Samples Upstream of Site Boundary  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

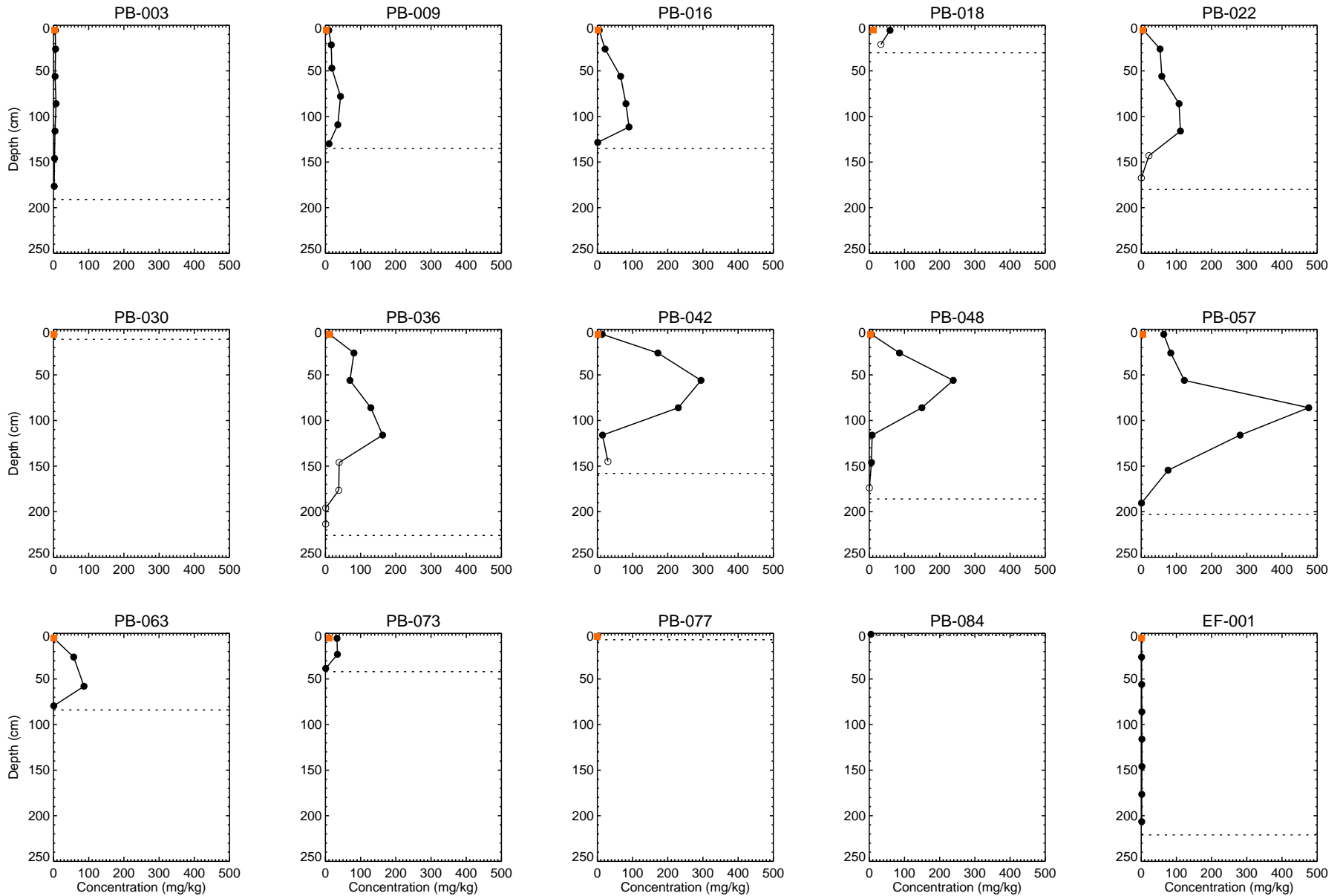


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- Subsurface Sampling Locations
- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



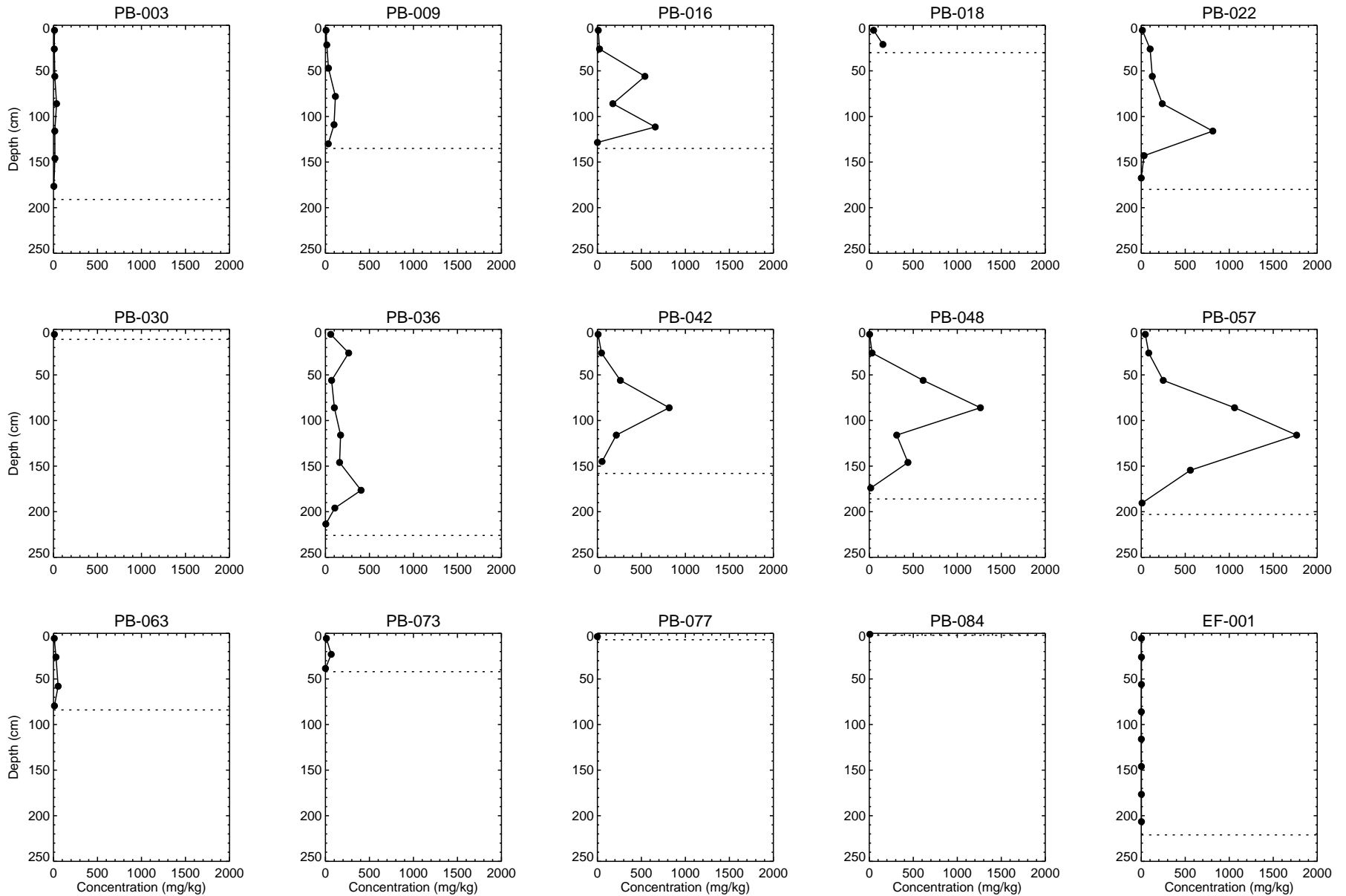


● Aroclor    ■ congener



NOTES:  
 Cores were collected in October 2006; values are plotted at mid-depth, with non-detects shown as open symbols at half the method detection limit.  
 Horizontal dotted line indicates approximate core depth.

**Figure 2-12**  
 Vertical Distribution of Total PCBs in Patrick Bayou  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

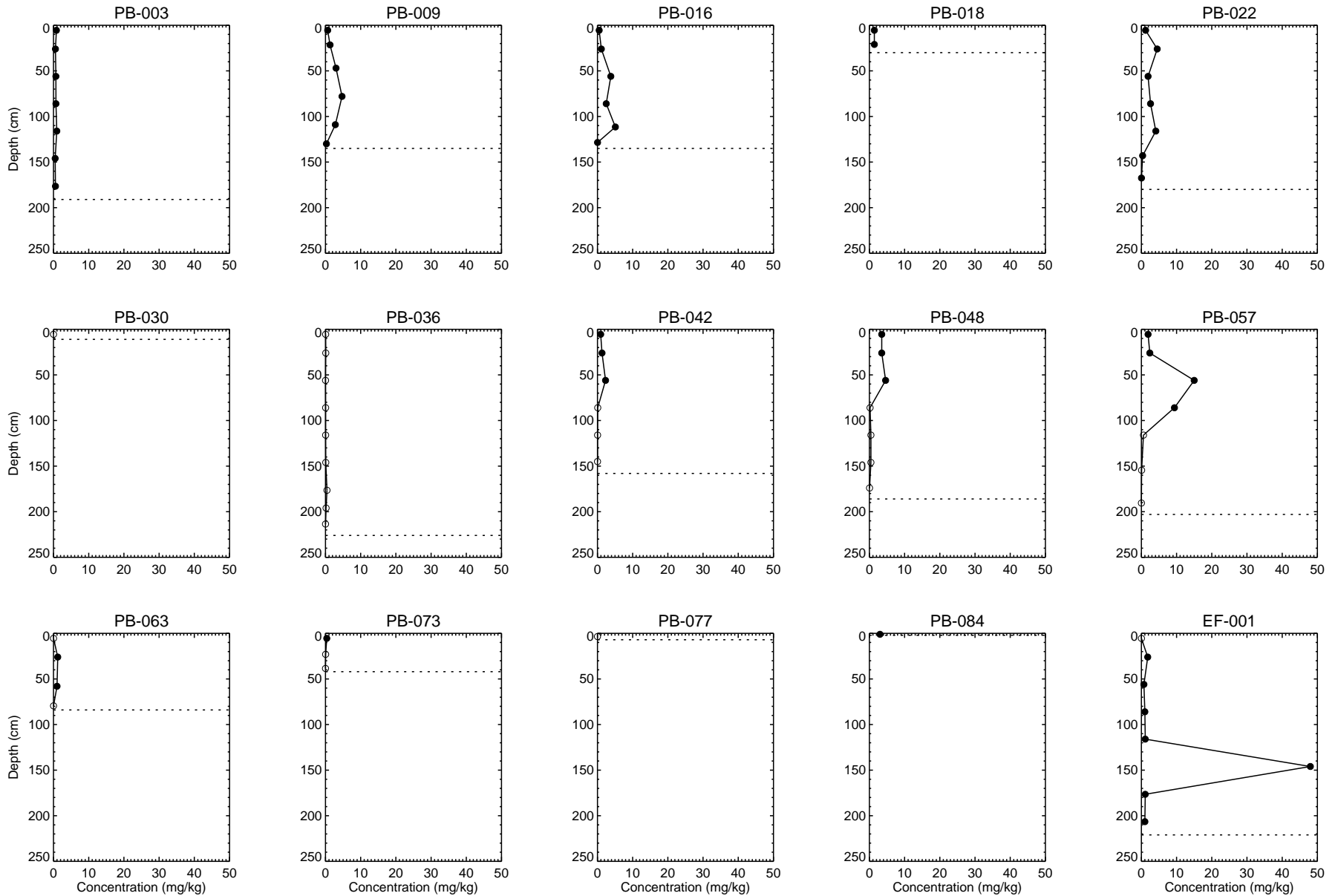


**Figure 2-13**

Vertical Distribution of Total PAH in Patrick Bayou  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



NOTES:  
 Cores were collected in October 2006; values are plotted at mid-depth.  
 Horizontal dotted line indicates approximate core depth.



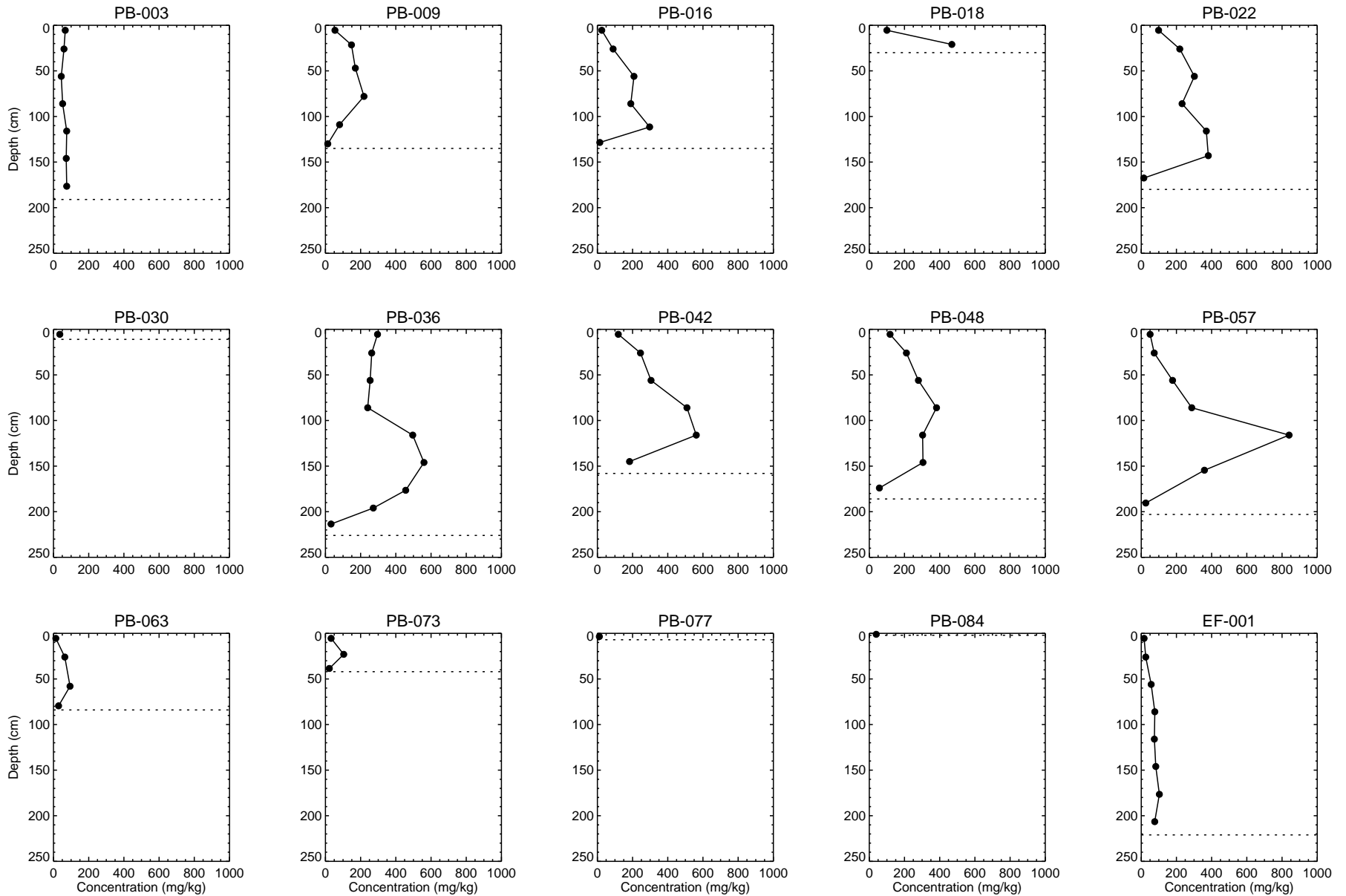
**Figure 2-14**

Vertical Distribution of Bis(2-Ethylhexyl)phthalate in Patrick Bayou  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



NOTES:  
 Cores were collected in October 2006; values are plotted at mid-depth, with non-detects shown as open symbols at half the method detection limit. Horizontal dotted line indicates approximate core depth.



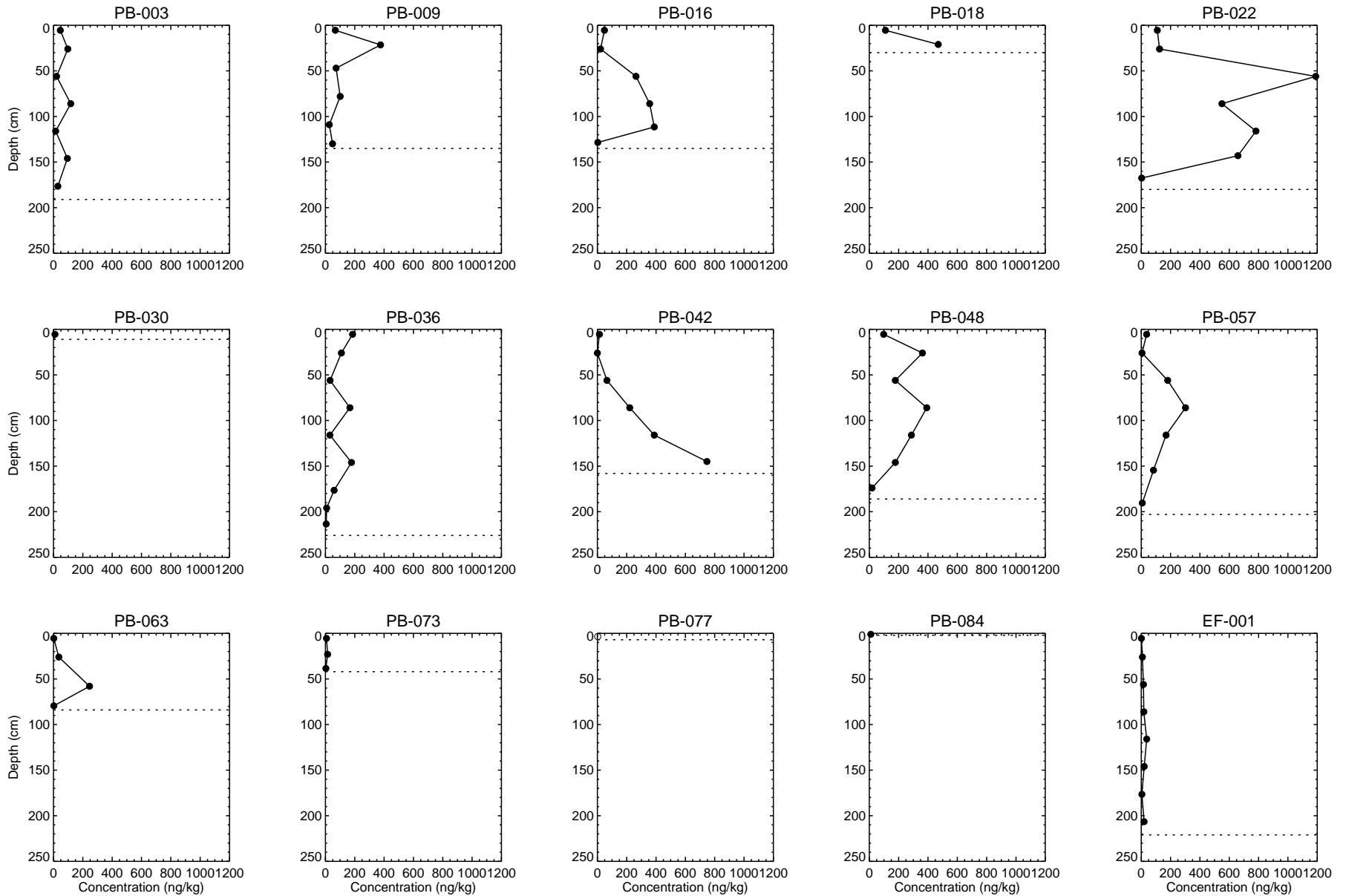


**Figure 2-15**

Vertical Distribution of Lead in Patrick Bayou  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



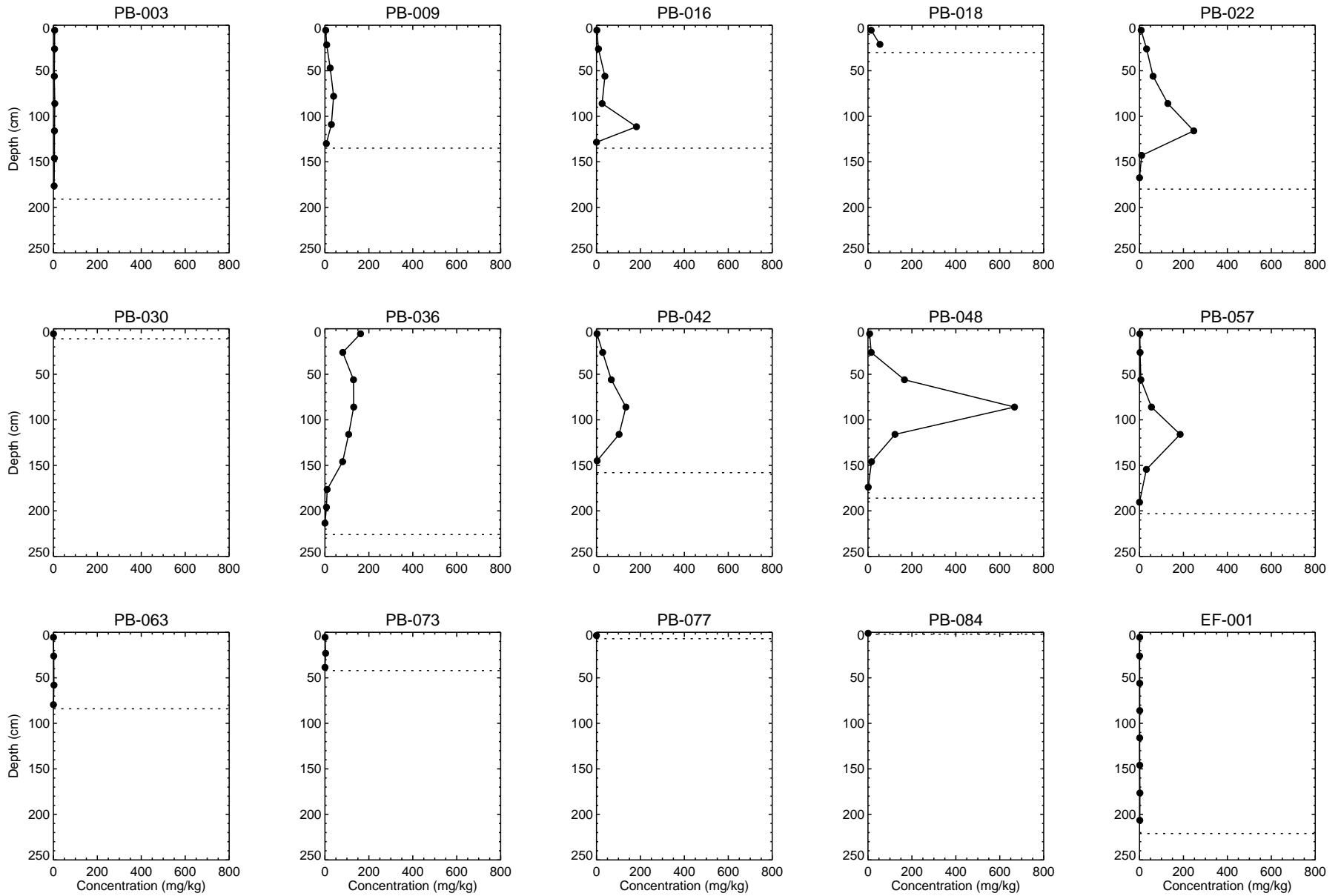
NOTES:  
 Cores were collected in October 2006; values are plotted at mid-depth.  
 Horizontal dotted line indicates approximate core depth.



**Figure 2-16**  
 Vertical Distribution of 2378-TCDD TEQs in Patrick Bayou  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



NOTES:  
 Cores were collected in October 2006; values are plotted at mid-depth, with non-detects shown as open symbols at half the method detection limit. Horizontal dotted line indicates approximate core depth.

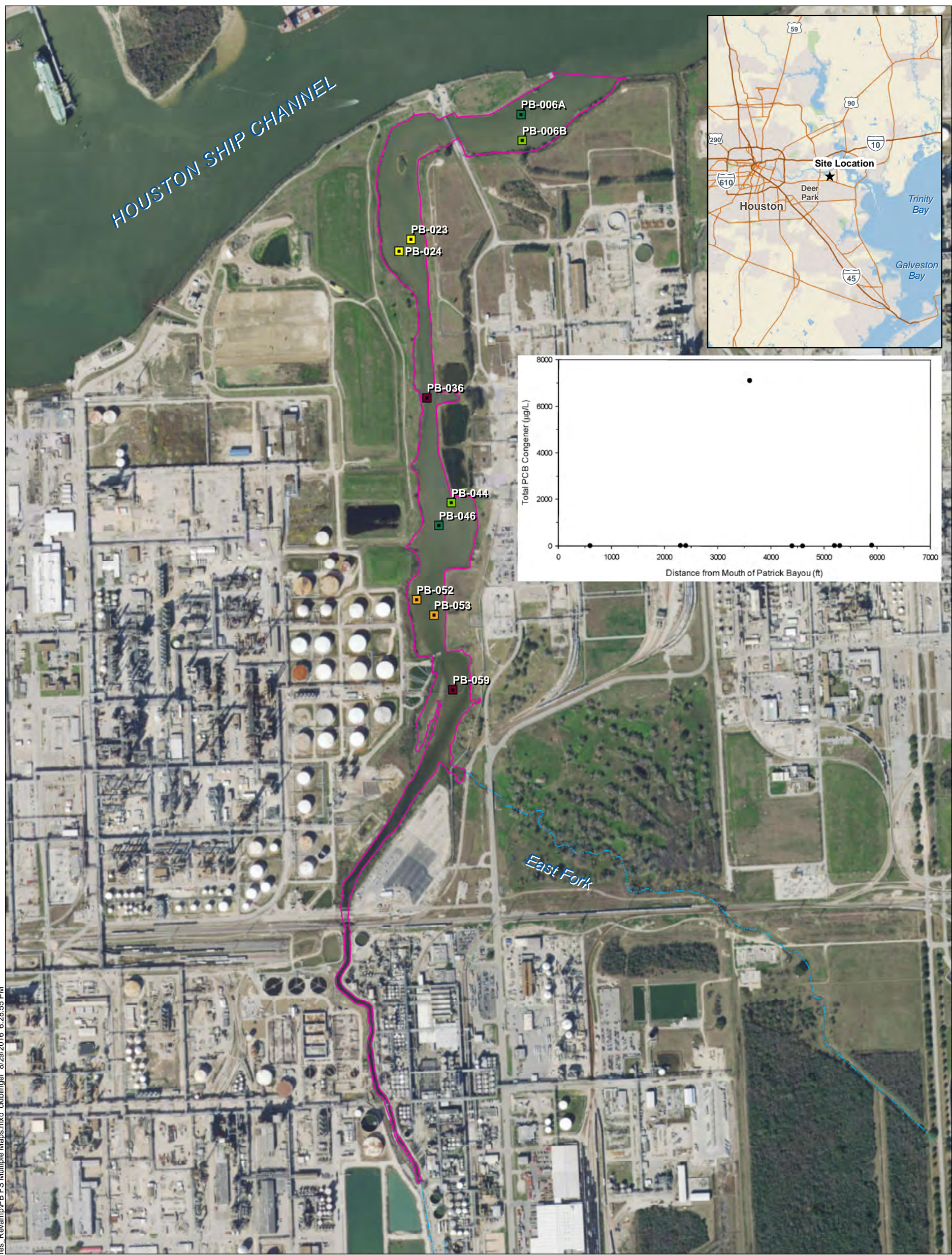


**Figure 2-17**

Vertical Distribution of Mercury in Patrick Bayou  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



NOTES:  
 Cores were collected in October 2006; values are plotted at mid-depth.  
 Horizontal dotted line indicates approximate core depth.



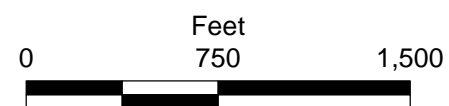
C:\Jobs\040284-Patrick Bayou\Maps\2014\_06\_FS\_Figures\_Revamp\FB FS Multiple Maps.mxd ckiblinger 8/29/2016 6:28:55 PM

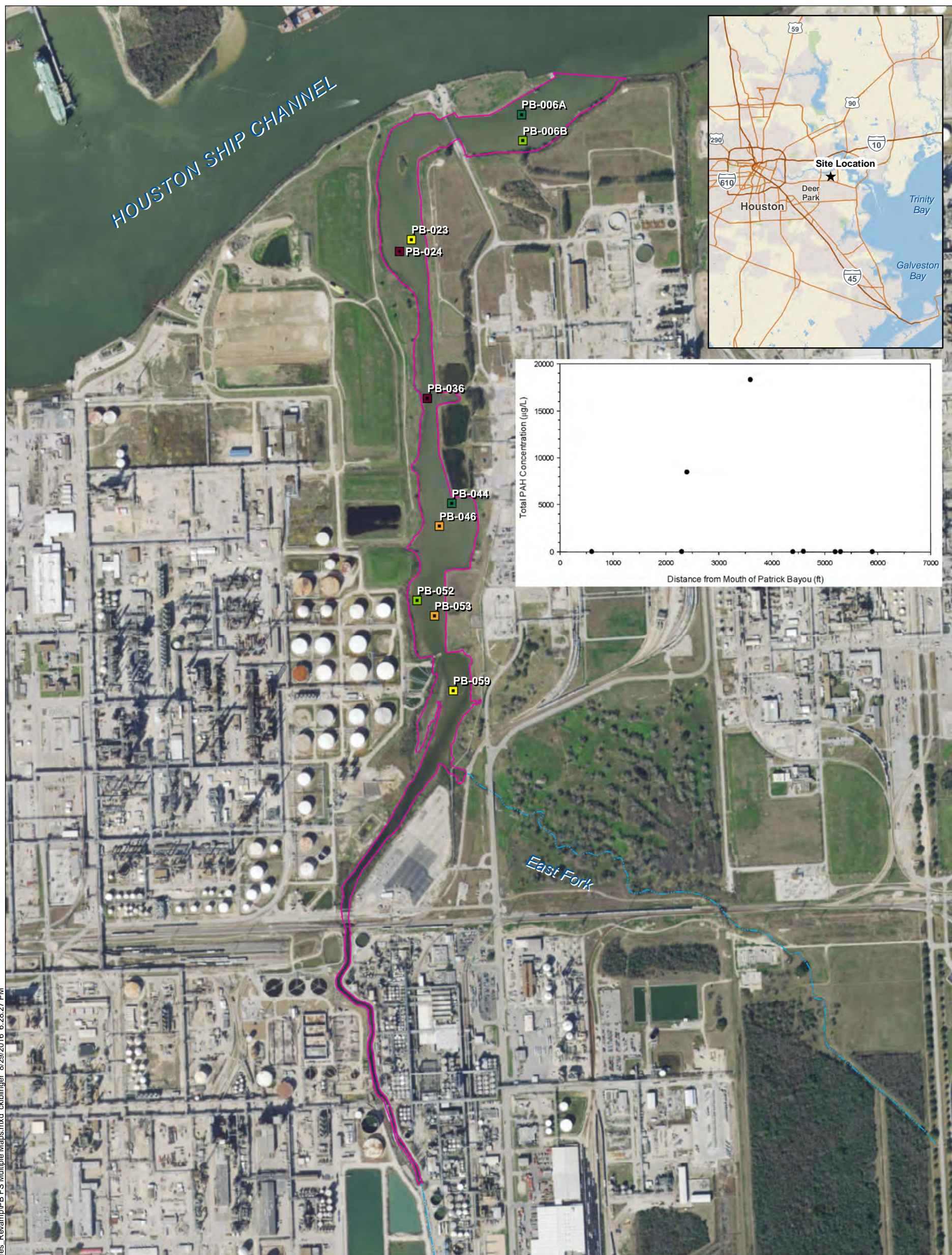
Total PCB (U = 1/2, µg/L)

- 1.56 - 2.21
- 2.22 - 5.89
- 5.90 - 14.5
- 14.6 - 18.6
- 18.7 - 7,110

- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





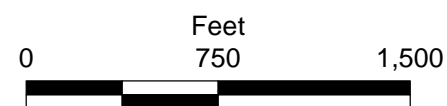
C:\Jobs\040284-Patrick Bayou\Maps\2014\_06\_FS\_Figures\_Revamp\FB FS Multiple Maps.mxd ckiblinger 8/29/2016 6:28:27 PM

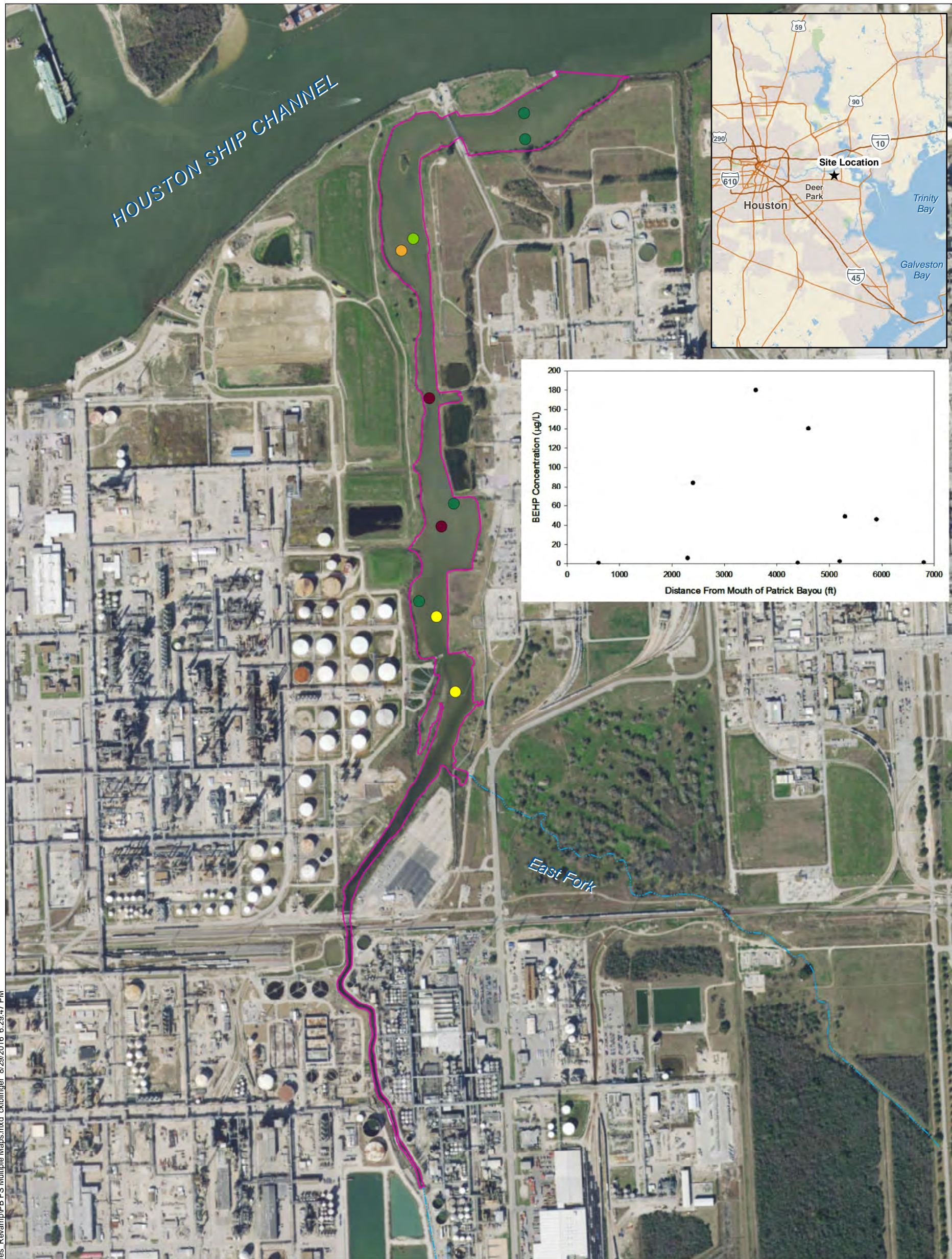
Total PAH (U = 1/2, µg/L)

- 1.87 - 3.30
- 3.31 - 4.60
- 4.61 - 8.70
- 8.71 - 45.1
- 45.2 - 18,300

- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





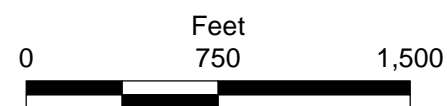
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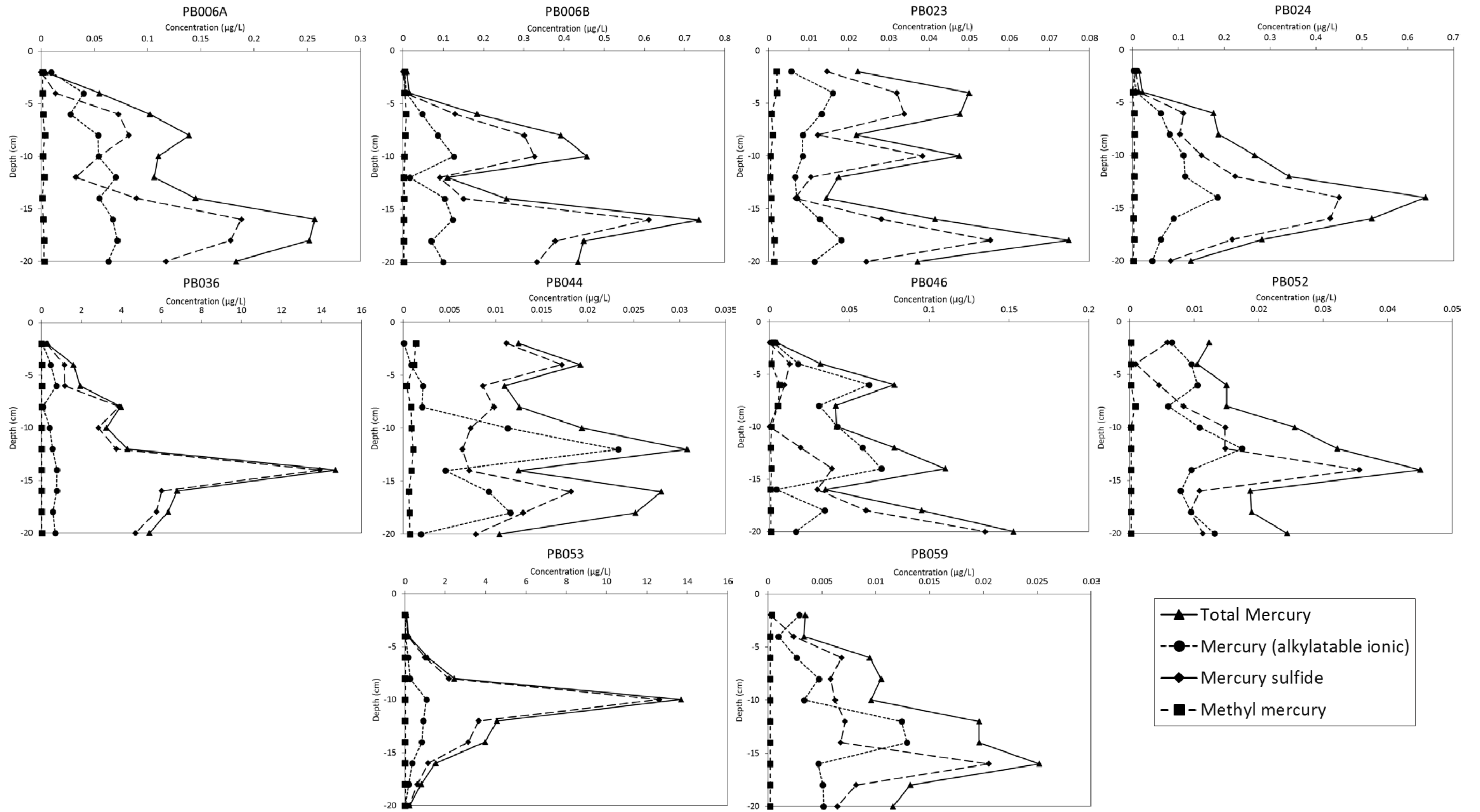
Bis(2-ethylhexyl)phthalate (µg/L)

- 1 - 3
- 4 - 6
- 7 - 49
- 50 - 84
- 85 - 180

- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





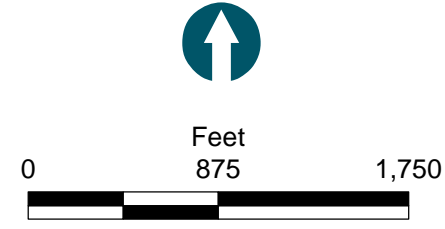


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**Surface Water Sampling Locations**  
 ▼ 2009  
 ▼ 2011  
 ▼ 2014

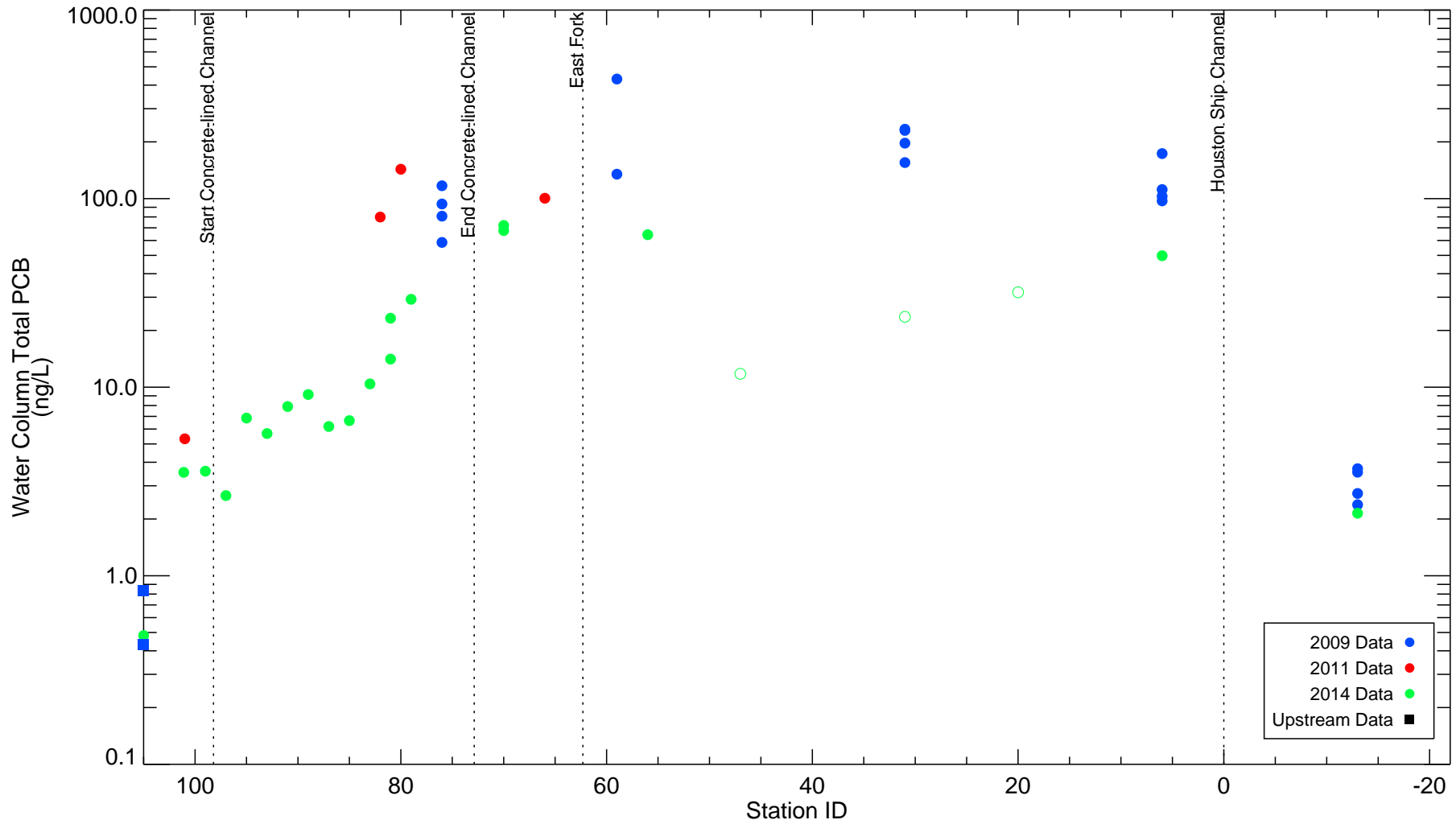
— Station Lines  
 Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



**Figure 2-22**  
 Patrick Bayou Surface Water Sample Locations  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





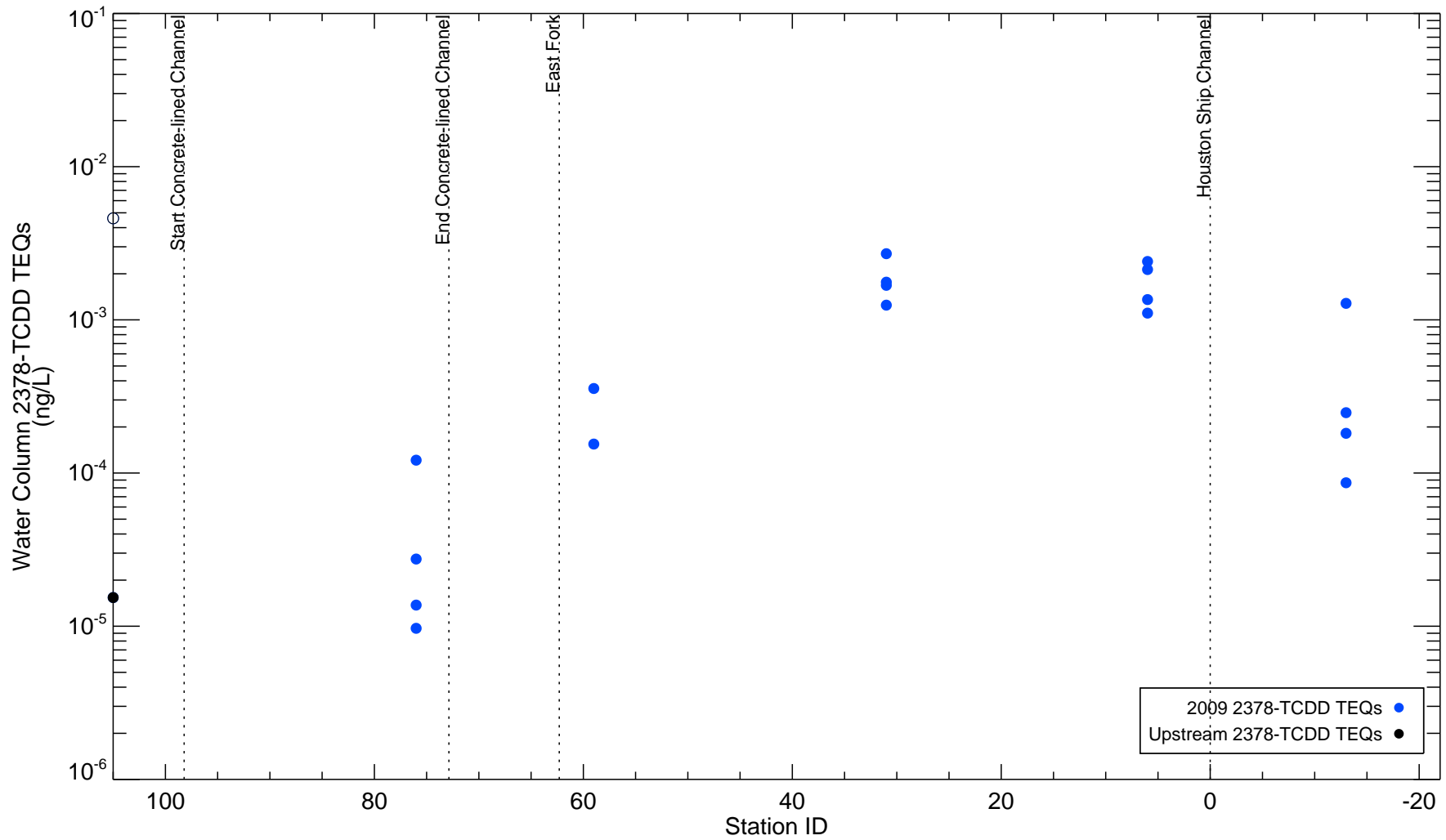
**Figure 2-23**

Spatial Profile of Water Column Total PCBs  
Patrick Bayou Feasibility Study Report

Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

*Open circles represent samples having potential incomplete lateral mixing. The human health Texas Surface Water Quality Standard is 0.64 ng/L. The aquatic life Texas Surface Water Quality Standard is 30 ng/L.*



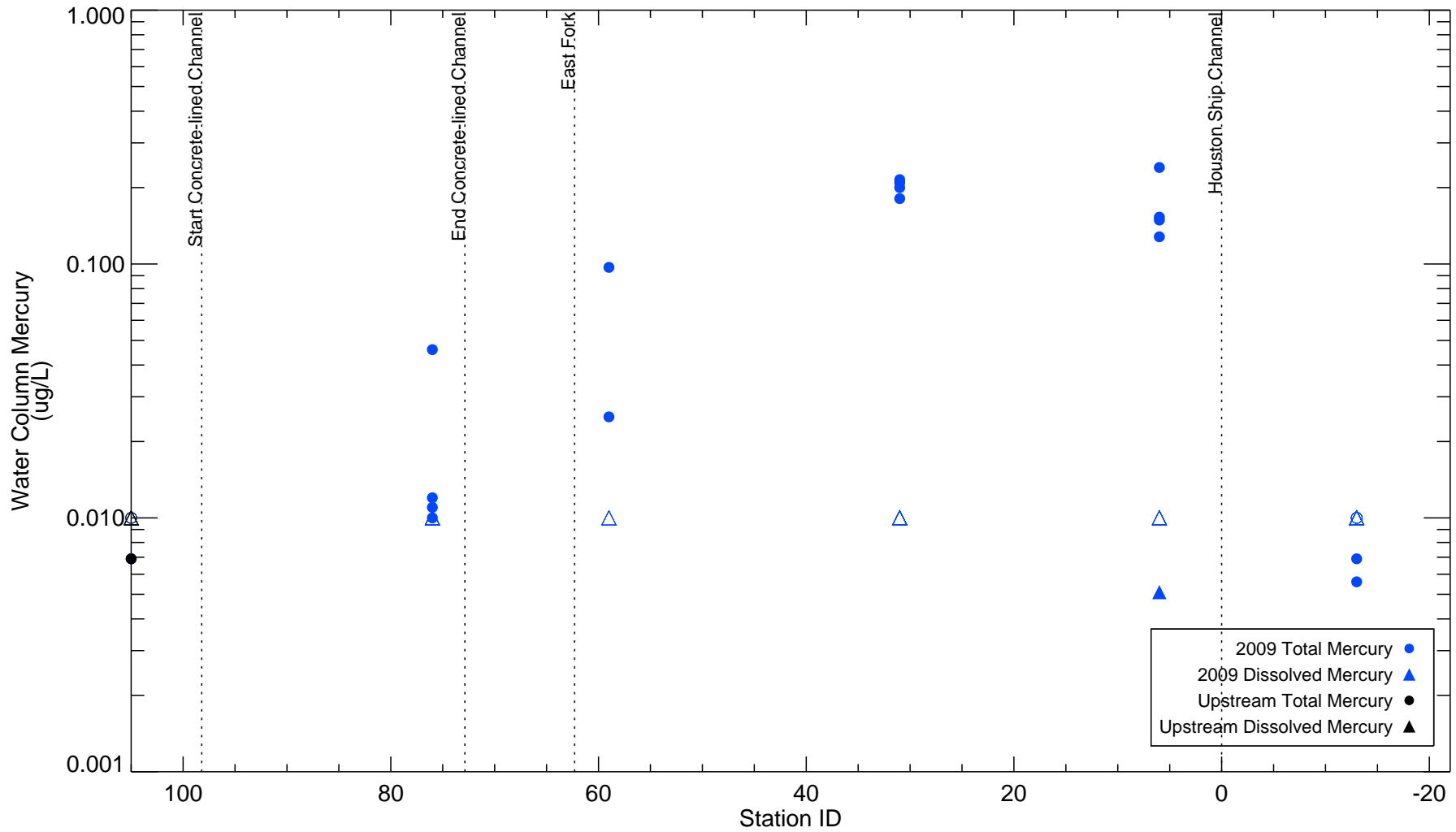


**Figure 2-24**

Spatial Profile of Water Column 2378-TCDD TEQs  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

*Open circles represent non-detect.  
 The human health Texas Surface Water Quality Standard is 7.97E-8 ug/L.*



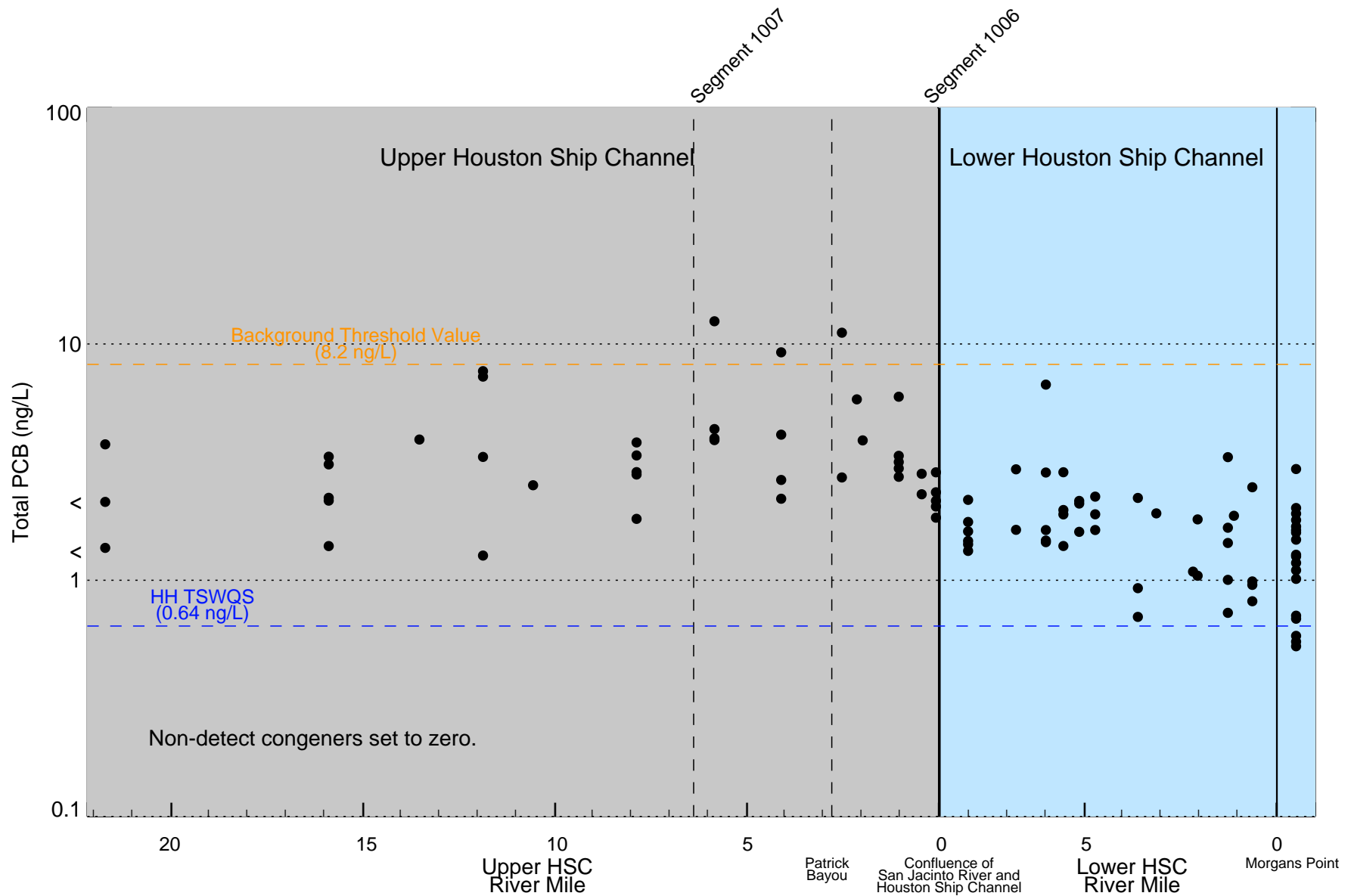


**Figure 2-25**

Spatial Profile of Water Column Mercury  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



*Open circles represent non-detect.*  
 The human health Texas Surface Water Quality Standard is 0.0250 ug/L. The aquatic life Texas Surface Water Quality standard is 1.1 ug/L.



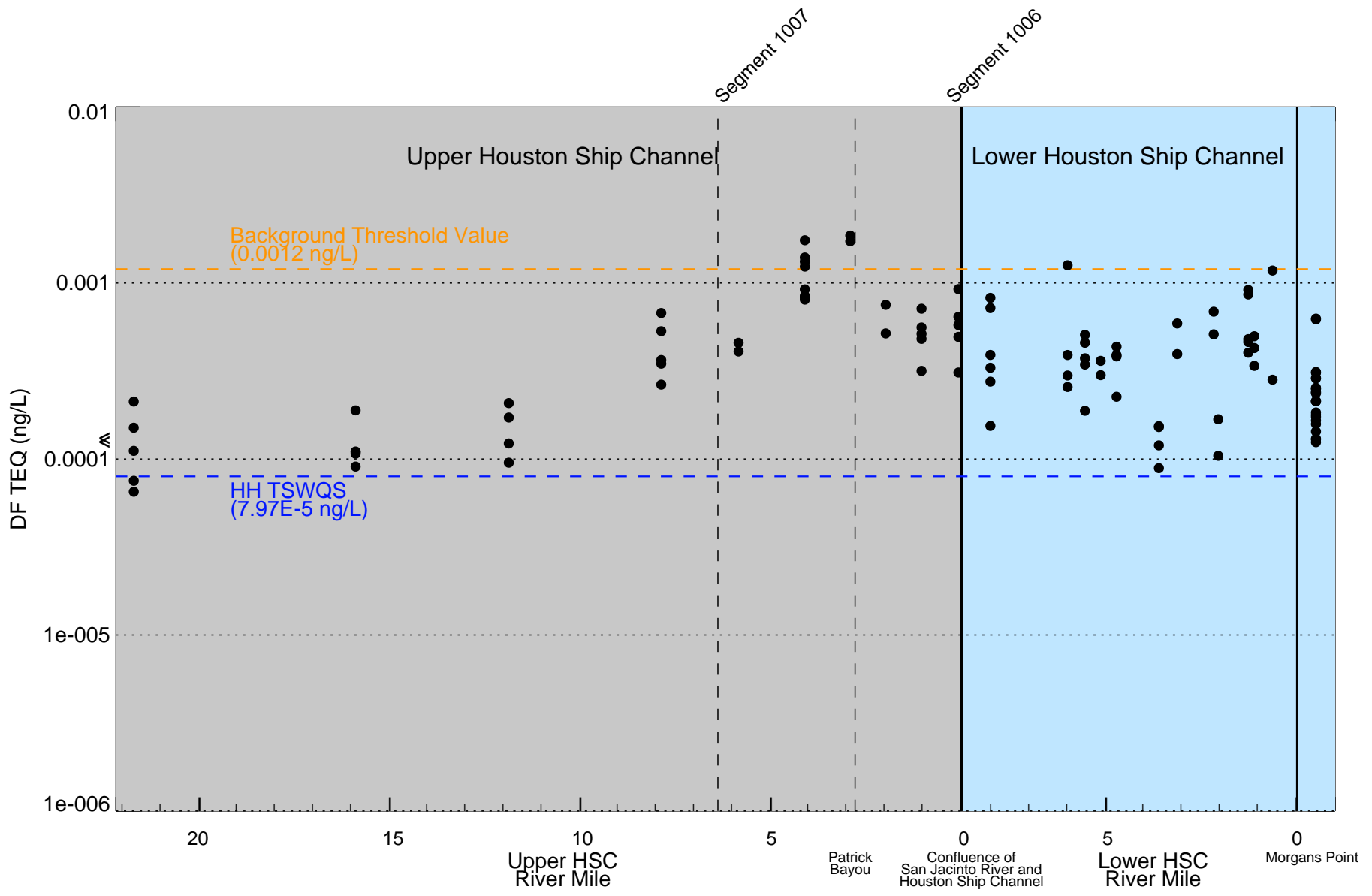
**Figure 2-26**

Spatial Profile of Water Column Total PCB in the Houston Ship Channel  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

*Nondetects set to 0 and are plotted with open symbols. Samples from Galveston Bay assigned river mile -0.5.  
 Studies included: TMDLTCEQ, TMDLTCEQ\_PCB*



● TCEQ TMDL Study Data



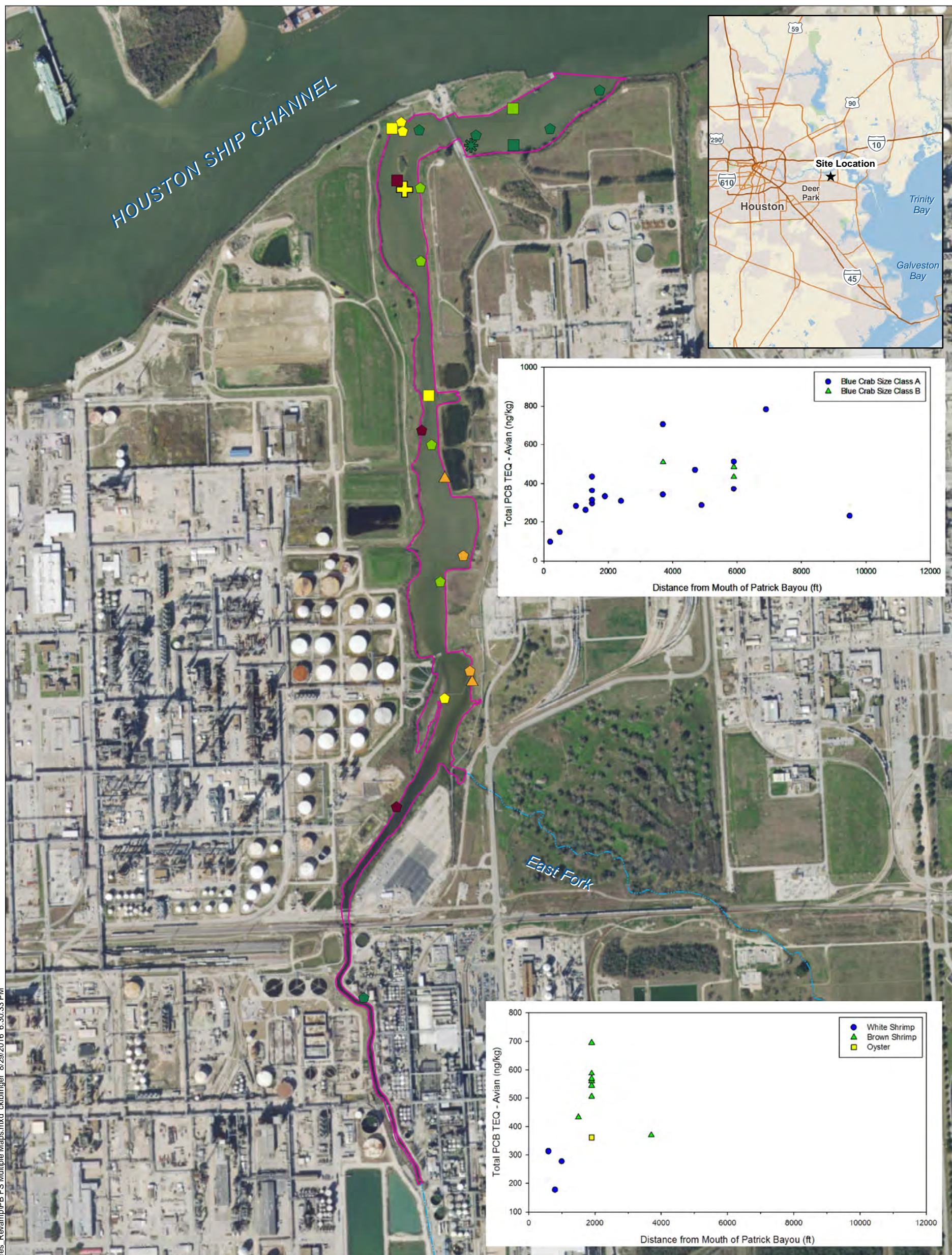
**Figure 2-27**

Spatial Profile of Water Column 2378-TCDD TEQs in the Houston Ship Channel  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



● TCEQ TMDL Study Data

*Nondetects set to 0 and are plotted with open symbols. Samples from Galveston Bay assigned river mile -0.5. Studies included: TCEQ 2009, TMDLTCEQ*  
*DF TEQ: Dioxin/Furan Toxic Equivalents. TEQs were calculated using TEFs from TSWQ2014.*



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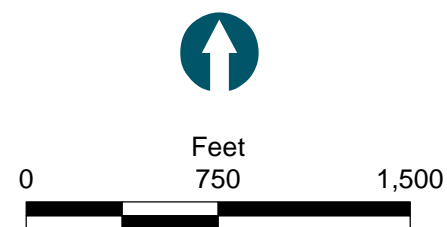
**Total PCB Congener TEQ 1998 (Avian) (ng/kg)**

- 98 - 281
- 282 - 341
- 342 - 434
- 435 - 545
- 546 - 783

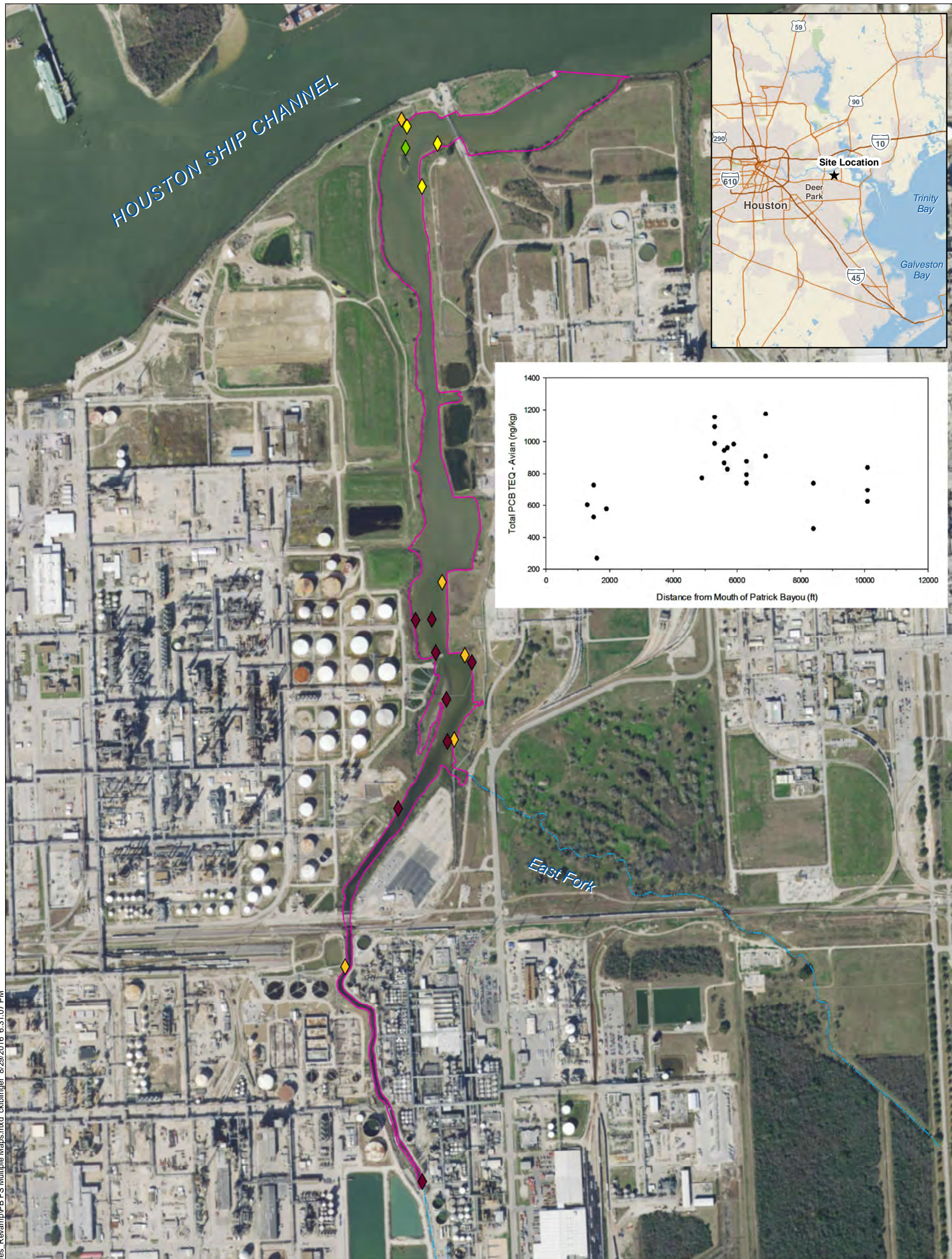
- ◆ Blue Crab Class A
- ▲ Blue Crab Class B
- \* Shrimp Class A
- Shrimp Class B
- ⊕ Oyster

- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.



**Figure 2-28**  
 PCB TEQ (avian) Results in Whole Body Shellfish Tissue Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

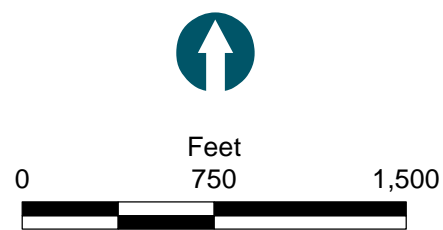


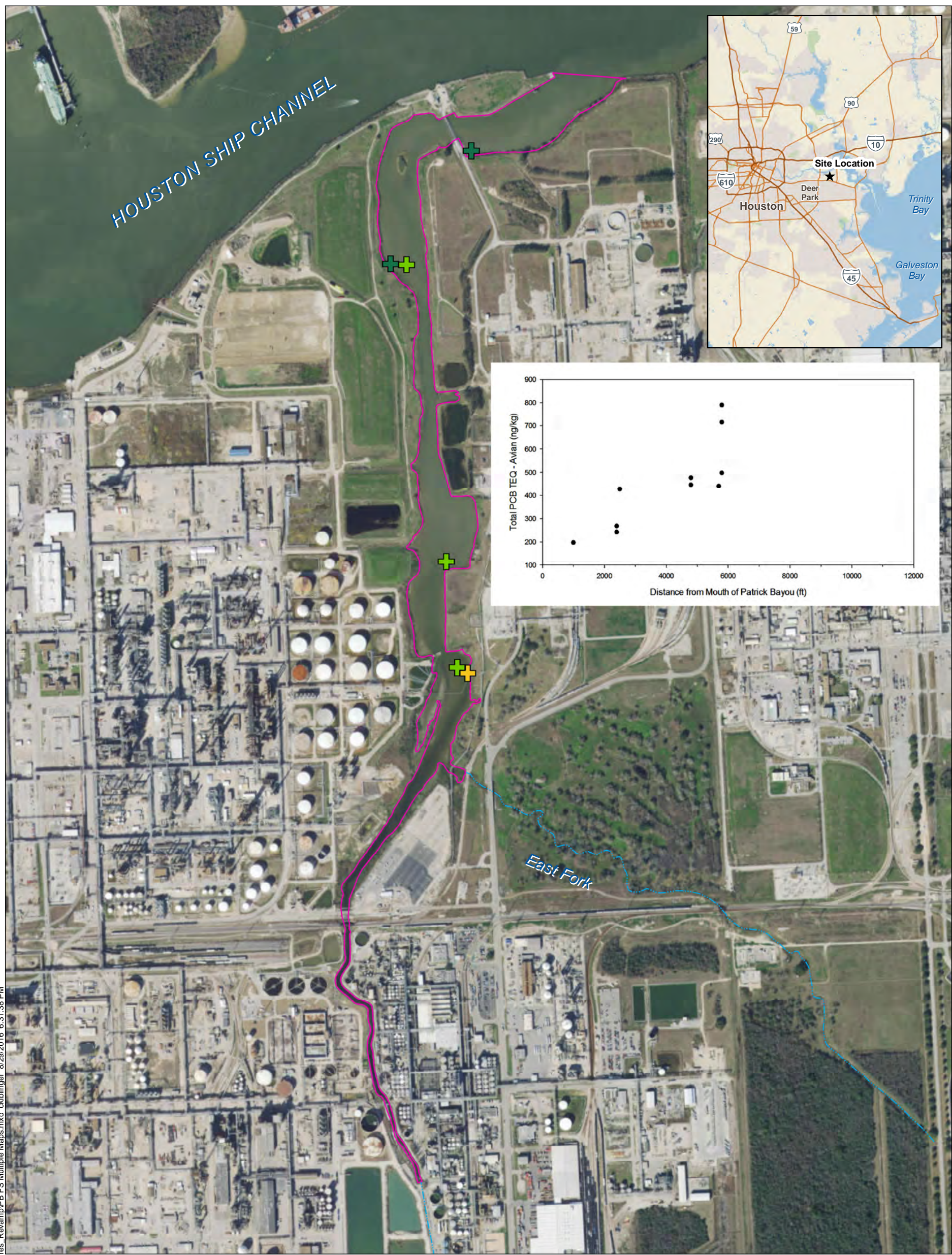
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- Total PCB Congener TEQ 1998 (Avian) (ng/kg)**
- 78.0 - 242
  - 243 - 445
  - 446 - 714
  - 715 - 837
  - 838 - 1,170

- ◆ Gulf killifish
- Station Lines
- Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





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**Total PCB Congener TEQ 1998 (Avian) (ng/kg)**

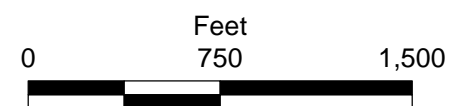
- 78.0 - 242
- 243 - 445
- 446 - 714
- 715 - 837
- 838 - 1,170

⊕ Gulf menhaden

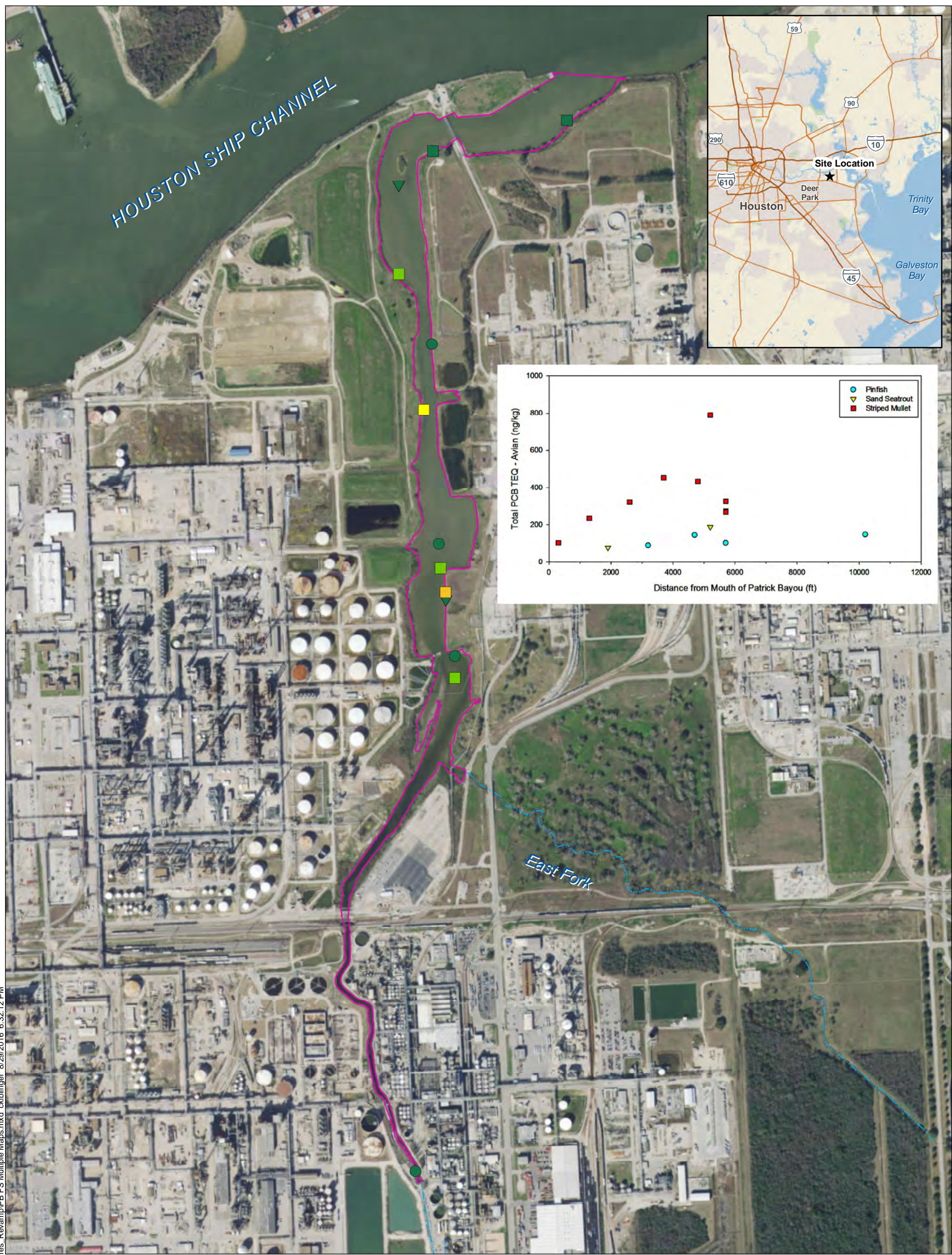
— Station Lines

□ Site Boundary as Defined in AOC

**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





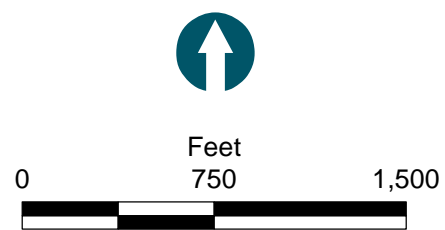


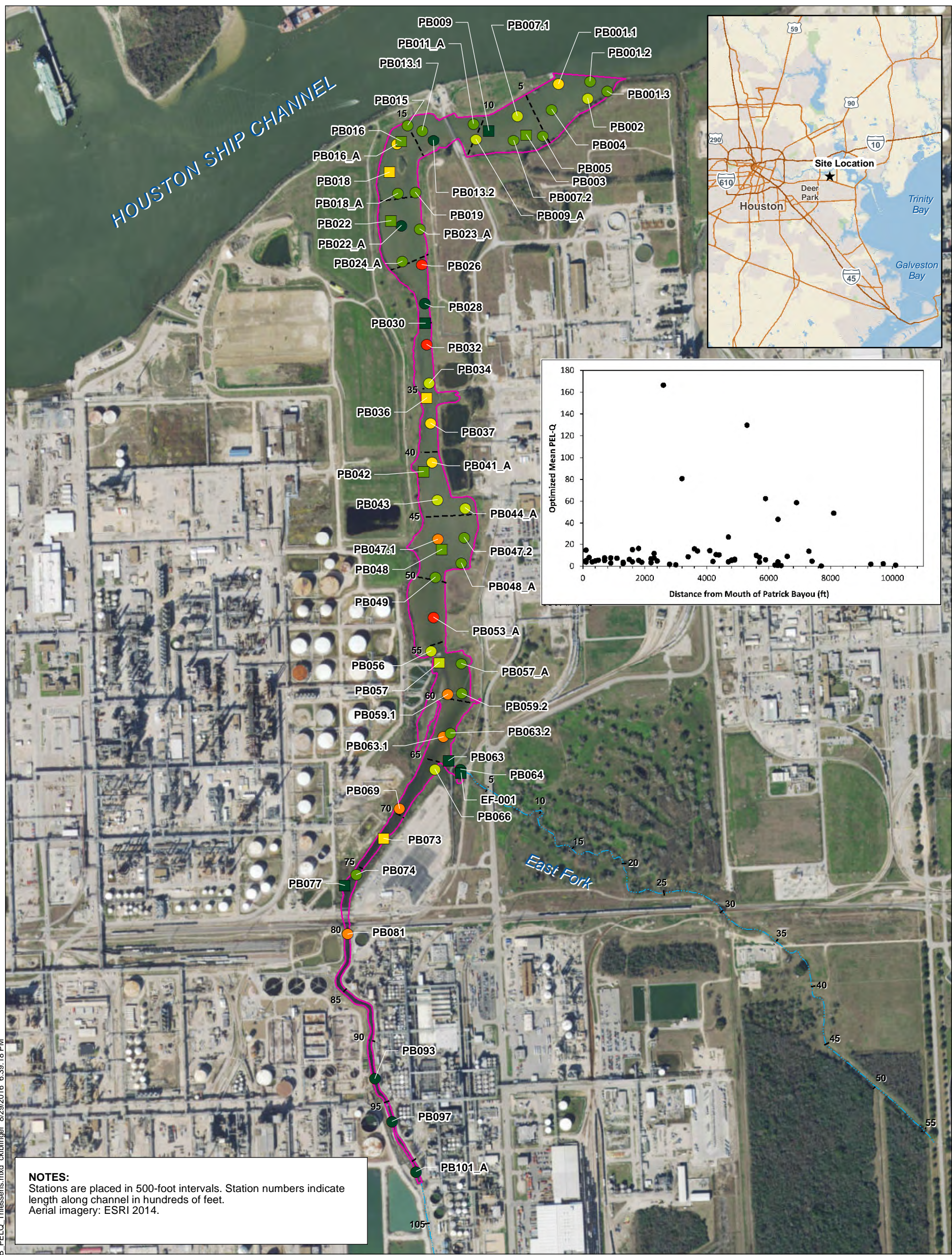
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- Total PCB Congener TEQ 1998 (Avian) (ng/kg)**
- 78.0 - 242
  - 243 - 445
  - 446 - 714
  - 715 - 837
  - 838 - 1,170

- Pinfish
- ▼ Sand seatrout
- Striped mullet
- Station Lines
- Site Boundary as Defined in AOC

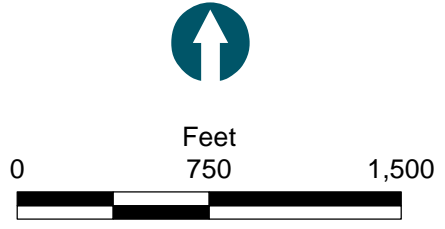
**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2011.





**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2014.

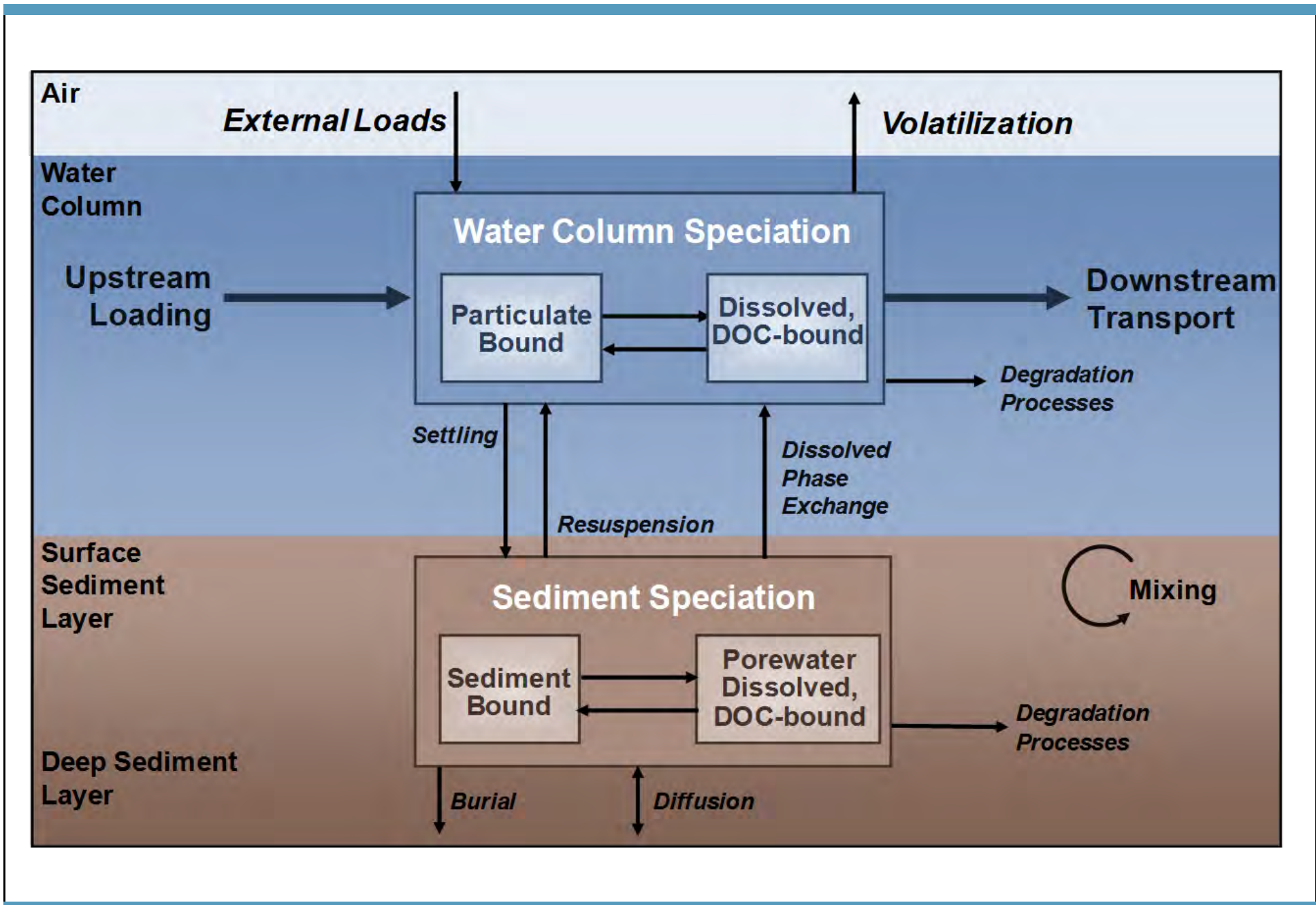
- Optimized Mean PEL-Q**
- 0.229 - 3.30
  - 3.31 - 7.60
  - 7.61 - 11.7
  - 11.8 - 26.7
  - 26.8 - 80.7
  - 80.8 - 166
  - 2006 Sediment Sample
  - 2009 Sediment Sample
- Station Lines  
 Site Boundary as Defined in AOC



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**Figure 2-32**  
 Optimized Mean PEL-Q Results in Surface Sediment Samples  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

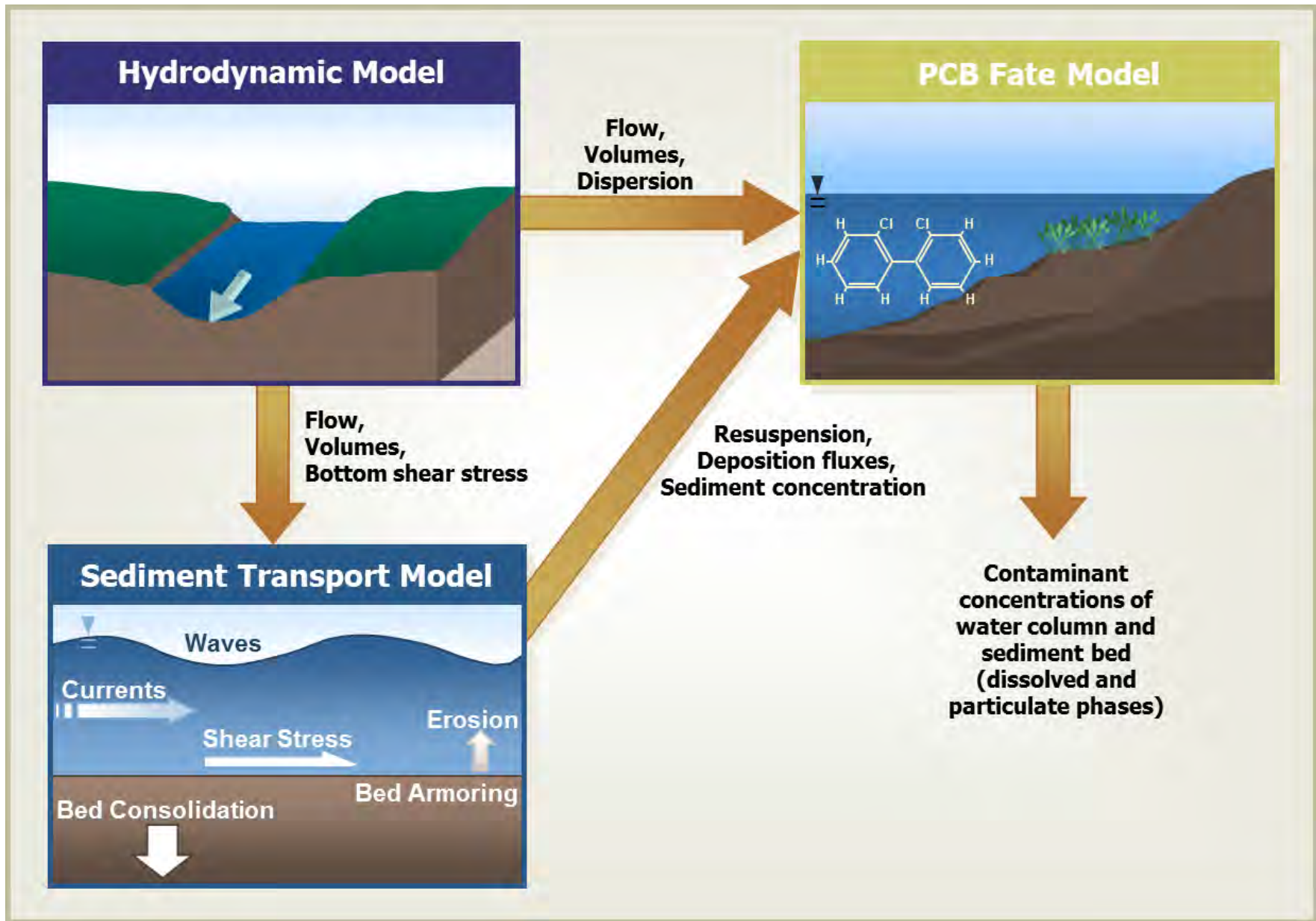


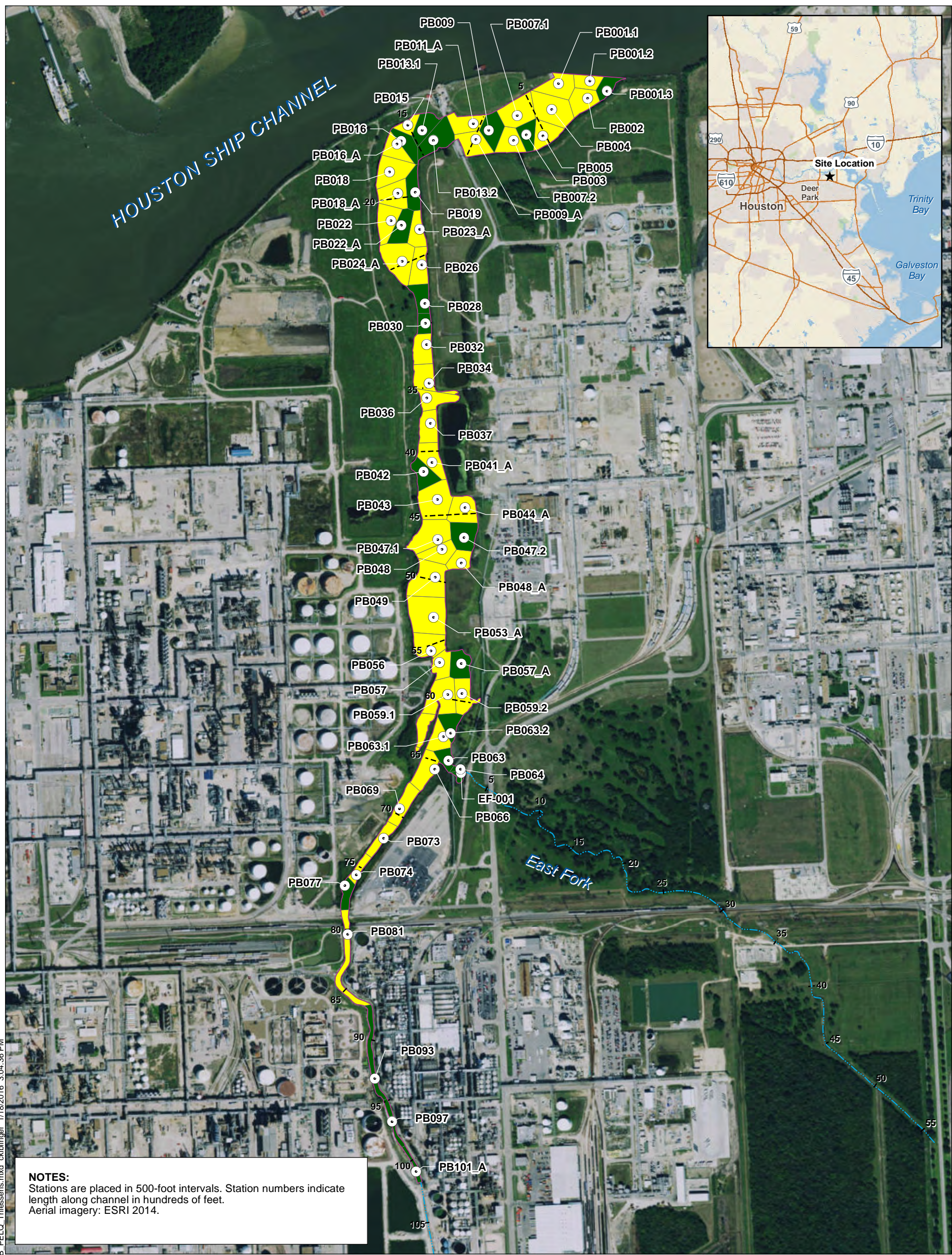


**Figure 2-33**

Processes Affecting Chemical Fate and Transport  
Patrick Bayou Feasibility Study Report

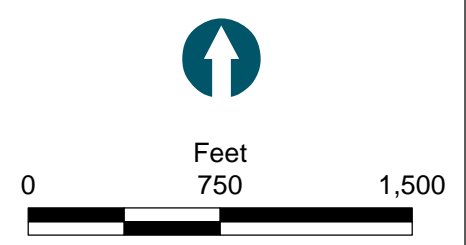
Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





**NOTES:**  
 Stations are placed in 500-foot intervals. Station numbers indicate length along channel in hundreds of feet.  
 Aerial imagery: ESRI 2014.

- Station Locations
  - Station Lines
  - Site Boundary as Defined in AOC
- Mean PELQ**
- 0.229 - 4.47
  - 4.48 - 166



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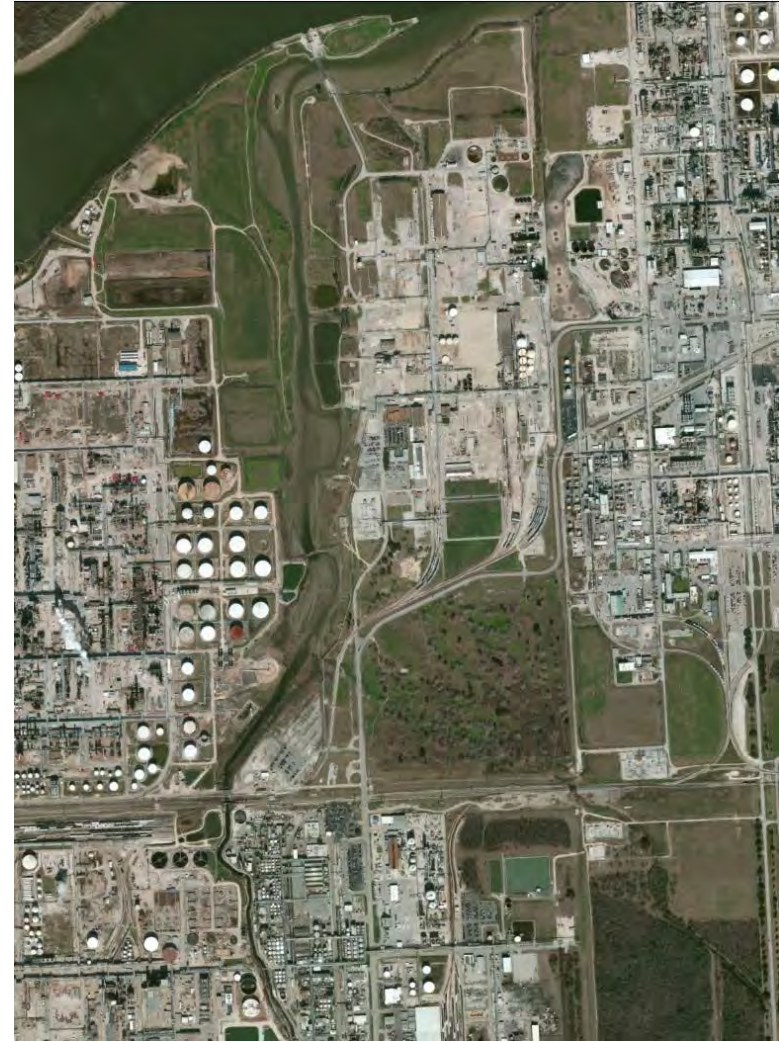


**Figure 3-1**  
 Areas Exceeding Benthic Risk Preliminary Remediation Goal  
 Patrick Bayou Feasibility Study Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

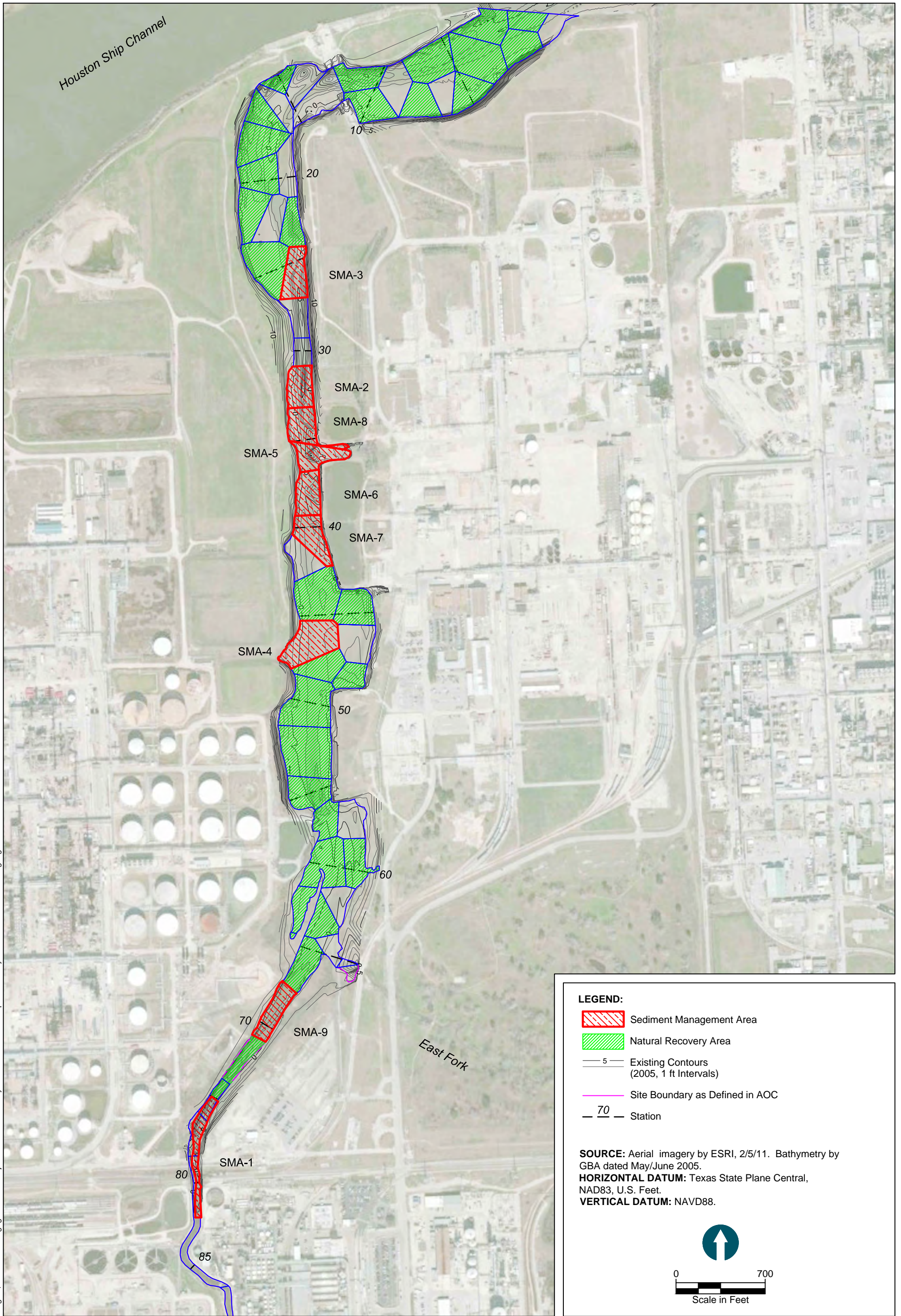
1952 Aerial Imagery

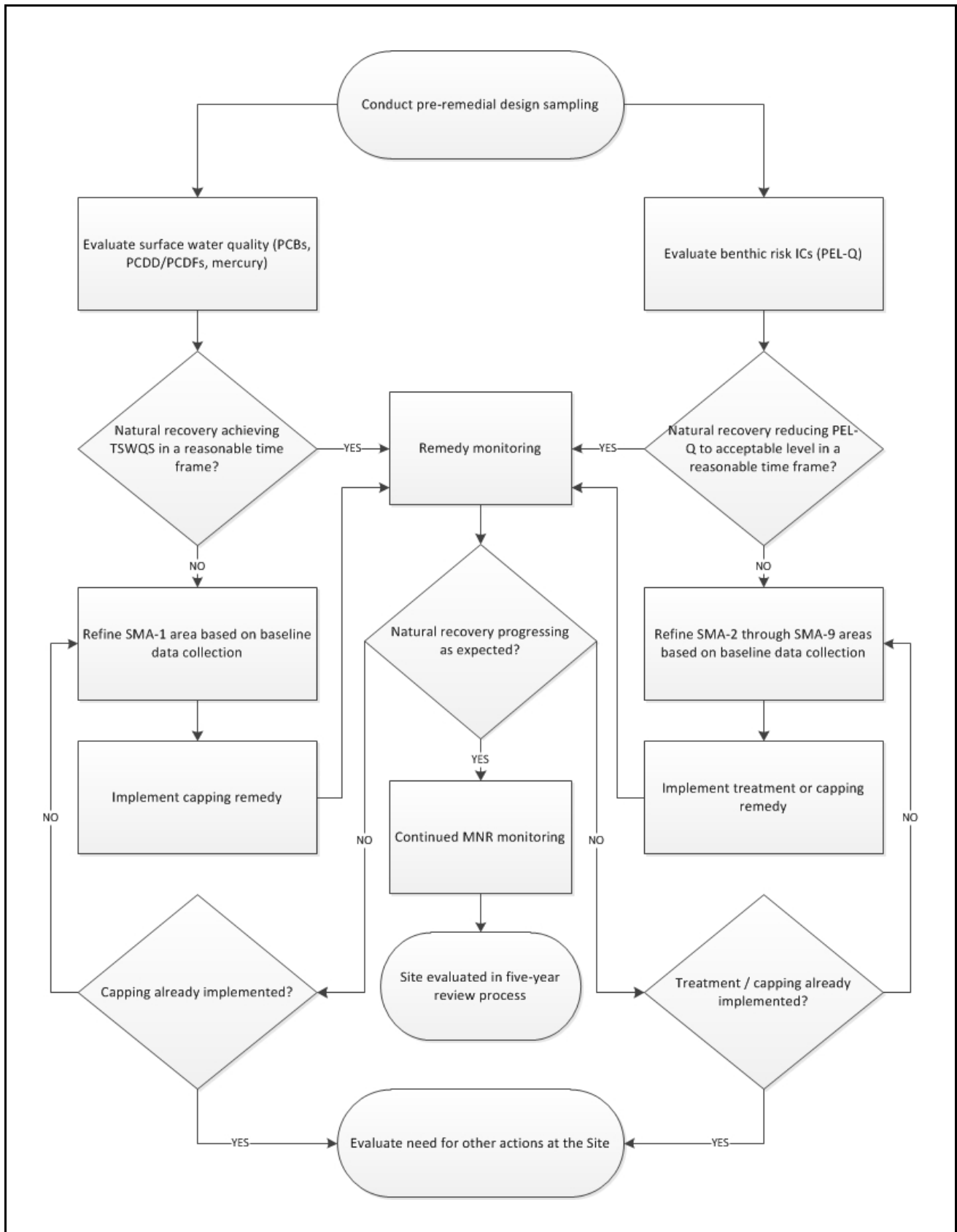


2014 Aerial Imagery



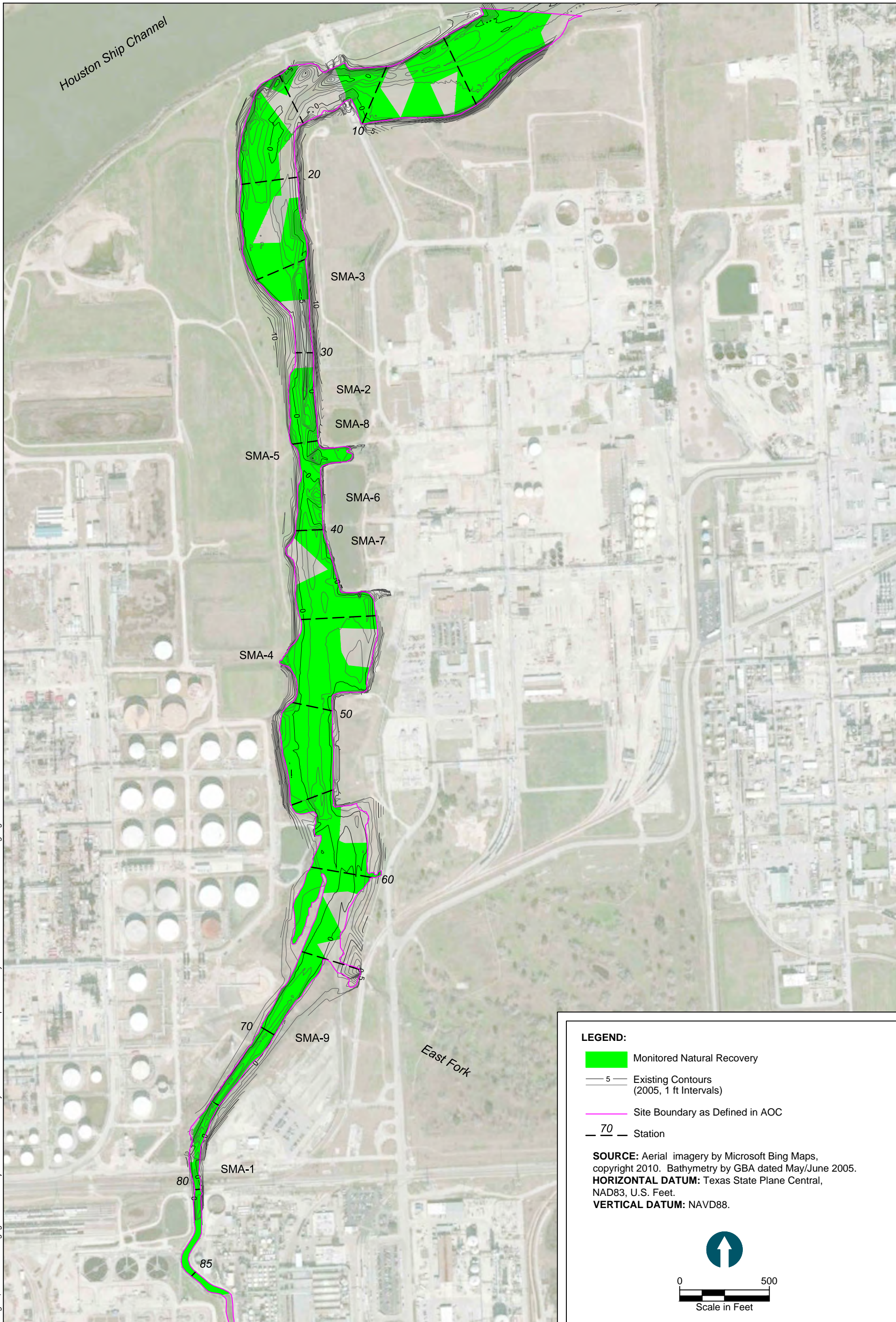
Aug 31, 2016 9:00am tgriga K:\Projects\0284-Patrick Bayou Joint Defense Group\Patrick Bayou 2013\0284-RP-013.dwg Figure 4-1



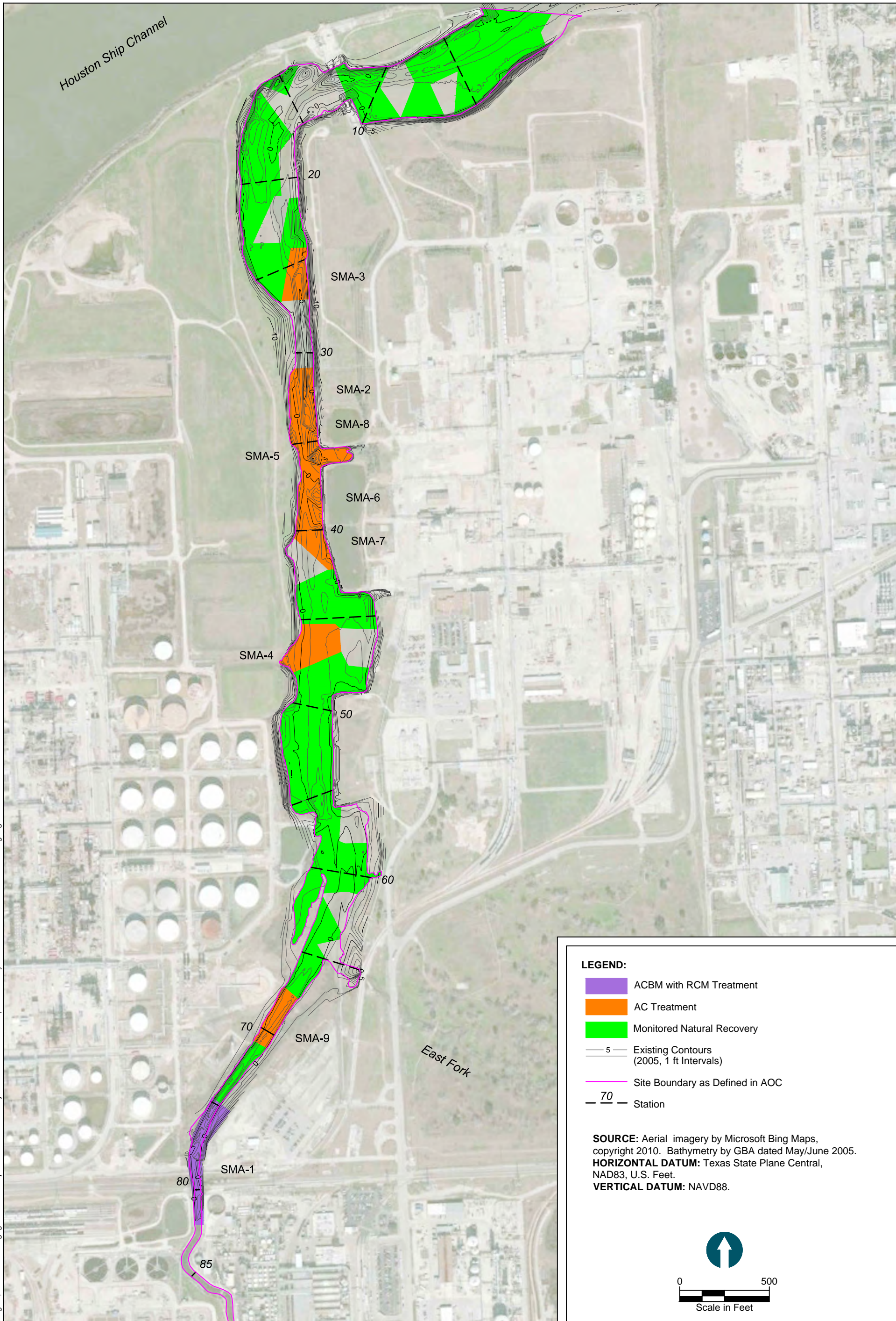




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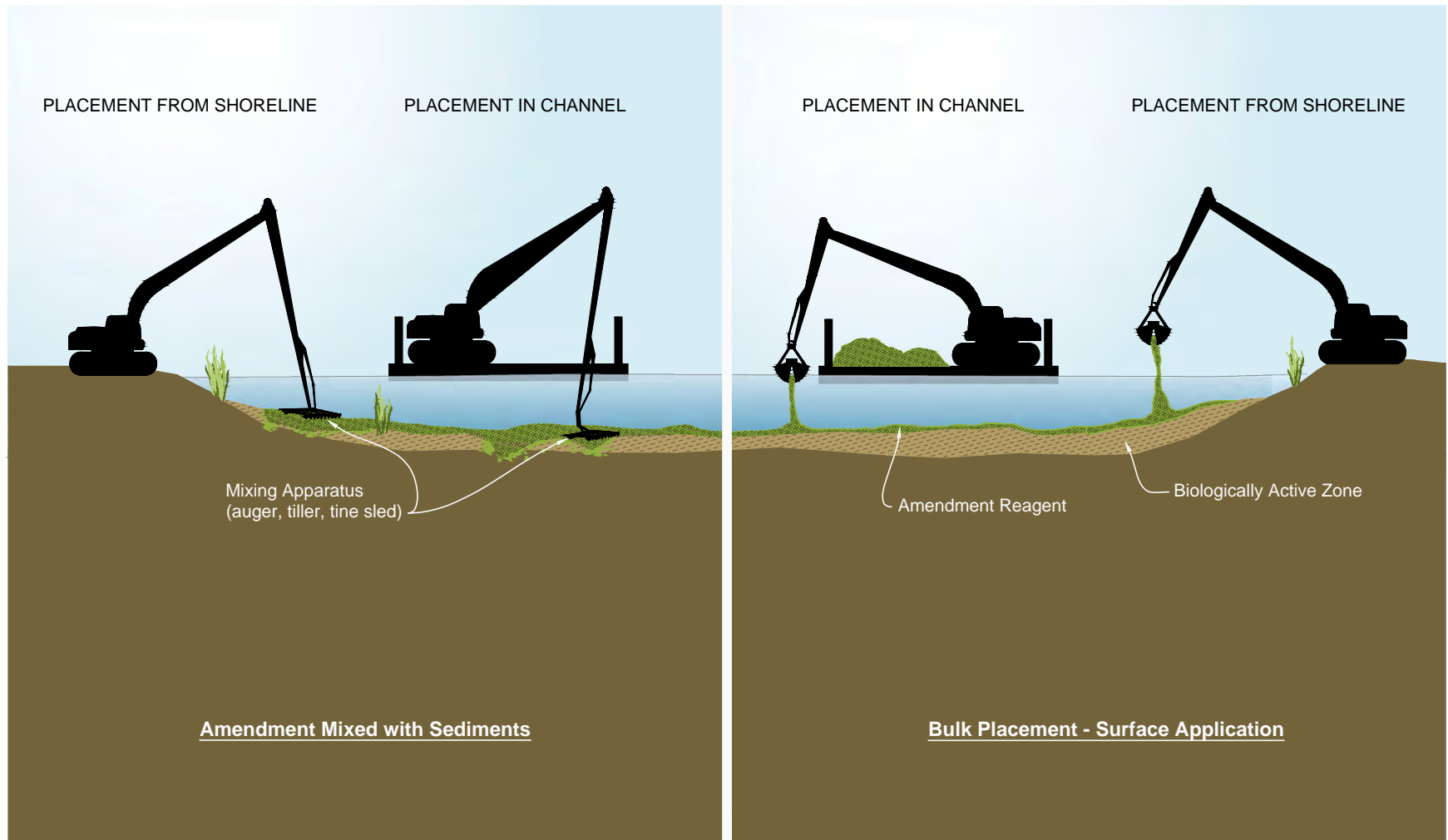


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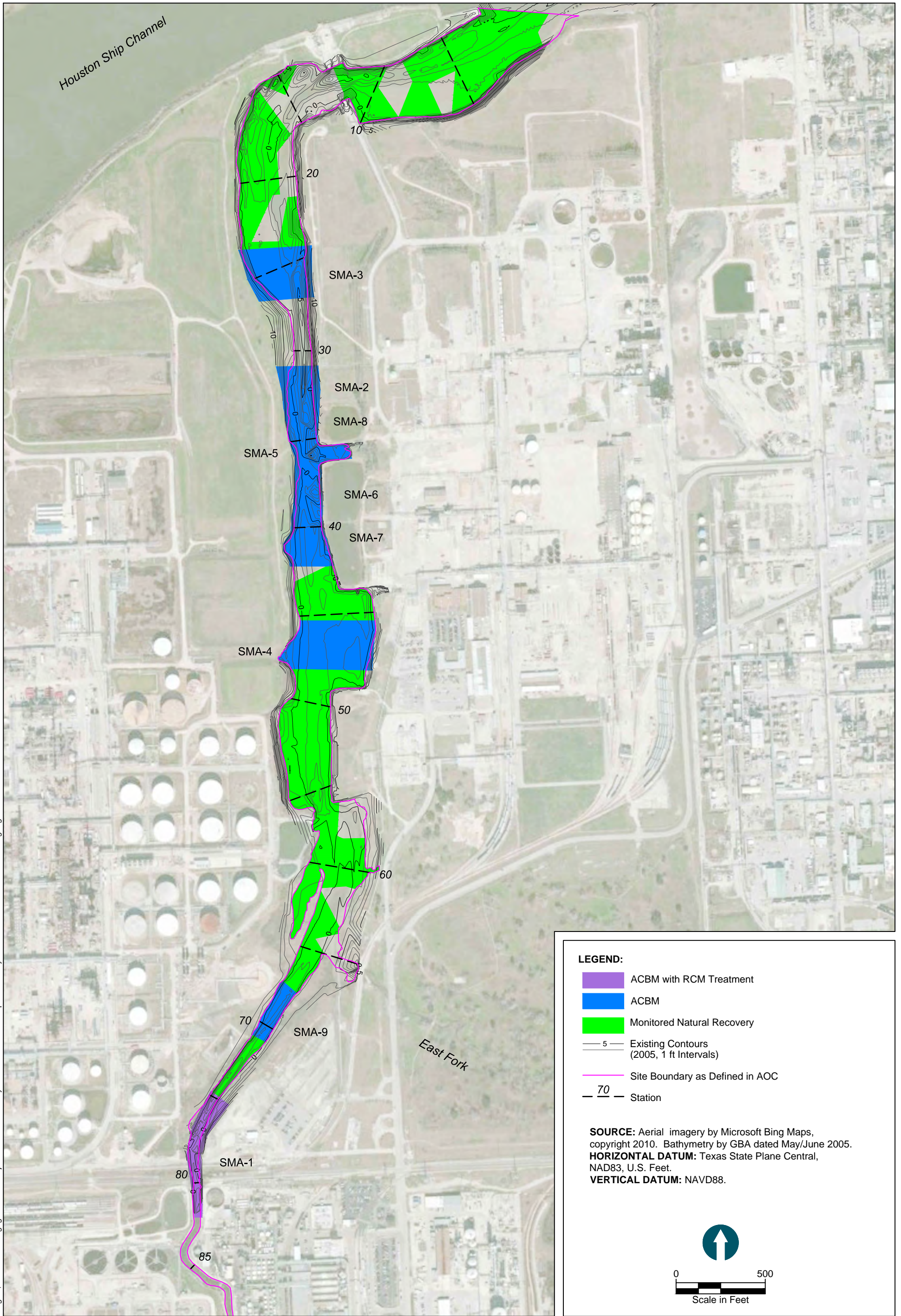


**Figure 4-4**  
Plan View Alternative 3: Monitored Natural Recovery, AC Treatment and ACBM  
Patrick Bayou Feasibility Study Report  
Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

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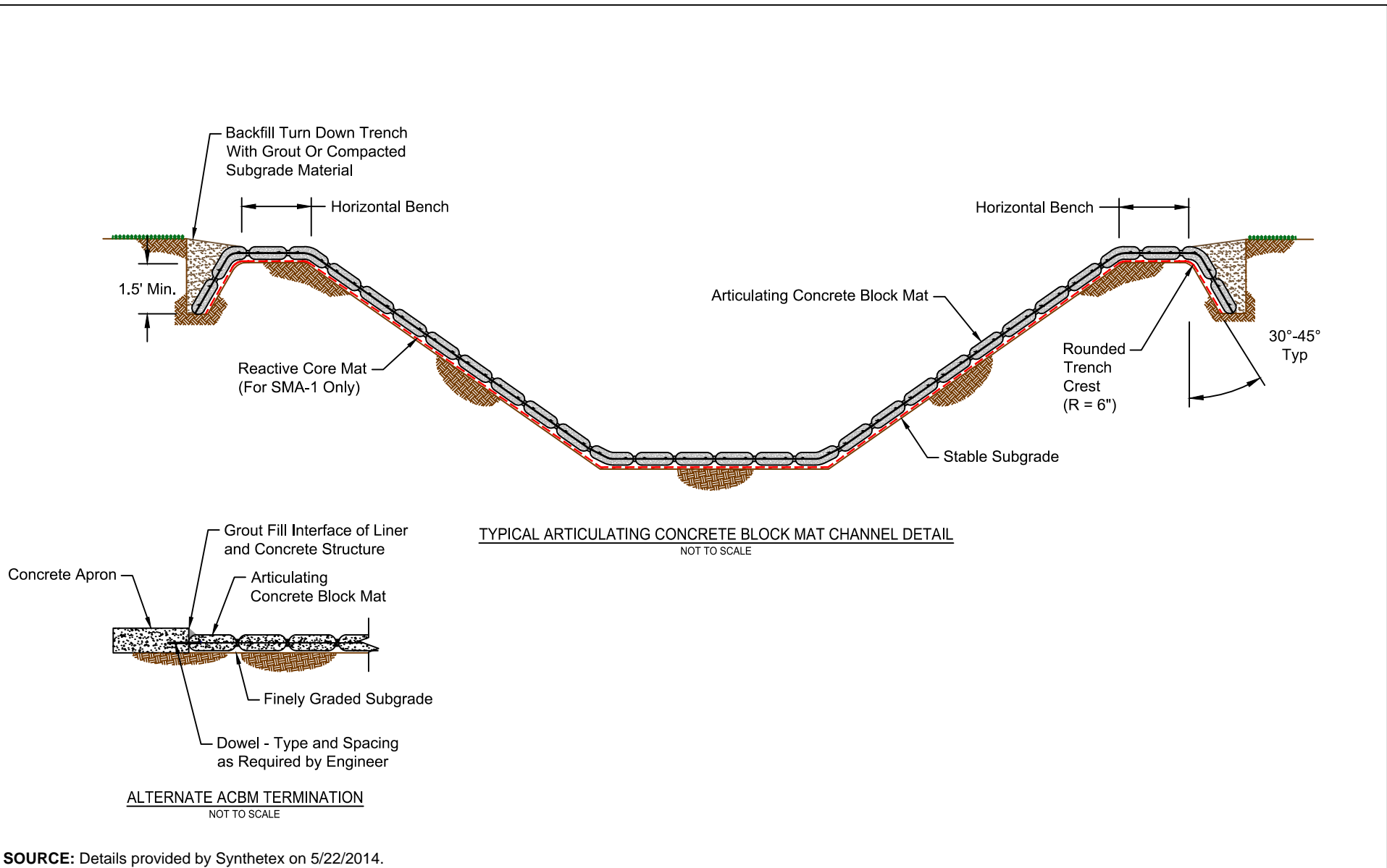


Aug 31, 2016 9:07 am tgriga K:\Projects\0284-Patrick Bayou Joint Defense Group\Patrick Bayou 2013\0284-RP-015-ALT2-3-4.dwg Figure 4-6



**Figure 4-6**  
Plan View Alternative 4: Monitored Natural Recovery Zones and ACBM  
Patrick Bayou Feasibility Study Report  
Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

K:\Projects\0284-Patrick Bayou Joint Defense Group\Patrick Bayou 2013\0284-RP-008.dwg Figure 4-7  
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# APPENDIX A

## CHEMICAL FATE AND TRANSPORT MODELING STUDY

### PATRICK BAYOU SUPERFUND SITE

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**Prepared for**

Patrick Bayou Joint Defense Group  
U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC  
614 Magnolia Avenue  
Ocean Springs, Mississippi 39564

**March 2017**

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## TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	Site and Project Background .....	1
1.2	Overview of Prior Hydrodynamic and Sediment Transport Modeling .....	1
1.3	General Description of Modeling Framework .....	2
1.4	Study Objectives .....	3
1.5	Overview of Technical Approach.....	3
1.6	Appendix Organization .....	4
<b>2</b>	<b>HYDRODYNAMIC AND SEDIMENT TRANSPORT MODEL.....</b>	<b>6</b>
2.1	Modifications to Numerical Grid.....	6
2.2	Development and Application of 19-year Simulation (1993 to 2011).....	7
2.3	Potential Effects of Deer Park Detention Basin.....	8
<b>3</b>	<b>CHEMICAL FATE AND TRANSPORT MODEL DEVELOPMENT AND CALIBRATION.....</b>	<b>11</b>
3.1	Model Development.....	11
3.1.1	State Variables .....	11
3.1.2	Model Grid.....	11
3.1.3	Boundary Conditions and External Sources .....	12
3.1.4	Initial Conditions.....	14
3.1.4.1	Water Column .....	14
3.1.4.2	Sediment Bed .....	14
3.1.5	Partition Coefficients .....	16
3.1.6	Parameterization for Water Column Processes.....	18
3.1.6.1	Water Temperature .....	18
3.1.6.2	Volatilization Parameters.....	19
3.1.6.3	Water Column Organic Carbon .....	20
3.1.7	Parameterization for Sediment Processes .....	21
3.1.7.1	Sediment Bed Physical Properties.....	22
3.1.7.2	Sediment Organic Carbon.....	22
3.1.7.3	Sediment Bed Mass Transport Parameters.....	24
3.2	Model Calibration.....	26
3.2.1	Calibration Approach.....	26

3.2.2	Calibration Results .....	28
3.2.3	Revised Calibration to 2014 Water Column Data .....	29
<b>4</b>	<b>LONG-TERM FUTURE SIMULATIONS .....</b>	<b>31</b>
4.1	Approach and Setup .....	31
4.2	Results .....	32
<b>5</b>	<b>MODEL UNCERTAINTY EVALUATION.....</b>	<b>35</b>
5.1	Approach and Setup .....	35
5.2	Results .....	36
<b>6</b>	<b>REFERENCES .....</b>	<b>38</b>

### List of Tables

Table 3-1	Mean PCB Concentrations at Locations Near Model Boundaries .....	13
Table 3-2	Surface Sediment Scale Factors Used to Estimate Deep Sediment Concentrations .....	16
Table 3-3	Summary of Chemical-specific Parameters Used in Volatilization Equations .....	20
Table 4-1	Summary of Model-predicted Sediment Half-lives.....	34

### List of Figures

Figure 1-1	Mathematical Modeling Framework
Figure 1-2	Processes Affecting Chemical Fate and Transport
Figure 2-1	Numerical Grid Including Concrete-lined Channel
Figure 3-1	Average Sediment PCB Homolog Distribution in Patrick Bayou
Figure 3-2	Locations of Model Boundaries and Water Column Sampling Locations used to Define Boundary Conditions
Figure 3-3a	Sediment Initial Conditions Methodology (PCB <sub>1-9</sub> )
Figure 3-3b	Sediment Initial Conditions Methodology (PCB <sub>10</sub> )
Figure 3-4	Identification of Subsurface PCB Concentration Factors Applied to Surface Data for Model Initial Conditions



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Figure 3-5	Annual Temperature Function Based on NOAA Data and Patrick Bayou Site Data
Figure 3-6	Spatial Distribution of Water Column Dissolved Organic Carbon Concentrations
Figure 3-7	Relationship between Percent of Class 1 Sediment and Fraction Organic Carbon
Figure 3-8	Total Organic Carbon Methodology
Figure 3-9	Spatial Profile of 2009/2011 Water Column Total PCB Data
Figure 3-10a	Spatial Profile of Model-predicted Water Column PCB <sub>1-9</sub> Concentration and Data
Figure 3-10b	Spatial Profile of Model-predicted Water Column PCB <sub>10</sub> Concentration and Data
Figure 3-10c	Spatial Profile of Model-predicted Water Column Total PCB Concentration and Data
Figure 3-11	Spatial Profile of 2009/2011 and 2014 Water Column Total PCB Data
Figure 3-12	Spatial Profile of Model-predicted Water Column Total PCBs Following Re-calibration to 2014 Water Column Data
Figure 4-1	Model Grid Cells Remediated for SMA-1 Scenario
Figure 4-2a-x	Spatial Profile of Model-predicted Water Column Total PCB Concentration for MNR and Remediation of SMA-1
Figure 4-3	Model-predicted Site-wide Average Sediment (Top 10 cm) Total PCB Concentration
Figure 4-4	Model-predicted Sediment (Top 10 cm) Total PCB Concentration, Averaged Every 10 Stations
Figure 5-1a-x	Uncertainty in Model-predicted Water Column Total PCB Concentration (MNR)
Figure 5-2a-x	Uncertainty in Model-predicted Water Column Total PCB Concentration (Remediate SMA-1)
Figure 5-3	Uncertainty in Model-predicted Site-wide Average Sediment (Top 10 cm) Total PCB Concentration (MNR)
Figure 5-4	Uncertainty in Model-predicted Site-wide Average Sediment (Top 10 cm) Total PCB Concentration (Remediate SMA-1)

**List of Attachments**

Attachment 1 Chemical Fate and Transport Model Theory and Formulation

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## LIST OF ACRONYMS AND ABBREVIATIONS

$\mu\text{m}$	micrometers
BEHP	bis-2 ethyl-hexyl phthalate
BERA	Baseline Ecological Risk Assessment
$C_d$	freely dissolved porewater concentration (mg/L)
cfs	cubic feet per second
cm	centimeter
cm/d	centimeters per day
$\text{cm}^2/\text{s}$	square centimeters per second
$\text{cm}^3/\text{mol}$	cubic centimeters per mole
$C_s$	PCB concentration associated with the sediment phase (mg/kg dry sediment)
CSM	conceptual site model
DOC	dissolved organic carbon
$f_{oc}$	TOC fraction in sediment
FS	Feasibility Study
g/mol	grams per mole
HLC	Henry's Law Constant
HSC	Houston Ship Channel
IDW	inverse distance weighting
J/mol	Joules per mole
$K_{doc}$	chemical-specific dissolved organic carbon equilibrium partition coefficient
$k_f$	surface porewater exchange coefficient
$K_{oc}$	chemical-specific organic carbon equilibrium partition coefficient
$K_{ow}$	octanol-water partition coefficient
L/kg	liters per kilogram
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MNR	monitored natural recovery
ND	non-detect
ng/L	nanograms per liter

NOAA	National Oceanic and Atmospheric Administration
PAH	polycyclic aromatic hydrocarbon
PCB <sub>10</sub>	decachlorobiphenyl
PCB <sub>1-9</sub>	mono- through nona-chlorobiphenyls
PCB	polychlorinated biphenyl
PEL-Q	Probable Effects Level-Quotient
RAO	Remedial Action Objectives
RI	Remedial Investigation
Site	Patrick Bayou Superfund Site
SMA	Sediment Management Area
TMDL	Total Maximum Daily Load
TOC	total organic carbon

---

## 1 INTRODUCTION

### 1.1 Site and Project Background

Patrick Bayou is a tributary of the Houston Ship Channel (HSC) in Harris County, Texas, that discharges at the south shore of the HSC approximately 2.3 miles upstream of the HSC confluence with the San Jacinto River. The Patrick Bayou Superfund Site (Site) and the surrounding area have been used for industrial and commercial operations for nearly a century. During this time, chemicals associated with those practices were released from various sources via several migration pathways (e.g., direct discharge, spills, HSC interaction, upstream sources) to the Site sediments.

Numerous sampling and investigative efforts were conducted to characterize the nature and extent of contaminants at the Site, understand sources of contaminants, develop conceptual site models (CSMs), and evaluate potential human health and ecological risks at the Site. These efforts are documented in the *Patrick Bayou Remedial Investigation Report* (RI; Anchor QEA 2013a). An evaluation of remedial alternatives to address contaminants within the sediments at the Site is being conducted in the Feasibility Study (FS). The primary indicator chemicals for surface and subsurface sediments in Patrick Bayou are polychlorinated biphenyls (PCBs; Anchor QEA 2013).

To support the evaluations conducted in the RI and FS, modeling of hydrodynamics, sediment transport, and PCB fate and transport was performed. These modeling efforts are the subject of this appendix to the FS.

### 1.2 Overview of Prior Hydrodynamic and Sediment Transport Modeling

A mathematical modeling framework was developed for Patrick Bayou that consisted of watershed, hydrodynamic, and sediment transport models that were linked together (Anchor QEA 2011). The watershed model was used to predict freshwater inflows to Patrick Bayou due to precipitation in the surrounding watershed. The hydrodynamic model was used to simulate temporal and spatial changes in water depth, current velocity, and bed shear stress. The sediment transport model was used to simulate temporal and spatial changes in suspended sediment concentrations in the water column, bed elevation changes (i.e., bed scour depth, net sedimentation rate), and changes in sediment bed composition (i.e.,

relative amounts of clay, silt, and sand from different sources). The models were developed and calibrated using Site-specific data. In particular, the sediment transport model was calibrated to suspended sediment concentration data collected during several high-flow events that occurred in October 2006 by adjusting the settling speed of cohesive sediment. In addition, net sedimentation rate data from Patrick Bayou were also used to calibrate the model over multi-year periods by adjusting the incoming sediment load during low-flow conditions. Successful calibration of the model produced a reliable tool to develop a CSM for sediment transport within the Site. Further use of the model included simulating sediment transport during high-flow events, including an event with a return period of 100 years. This simulation was used to estimate the location(s) and depth of bed scour in Patrick Bayou after a high-flow event. Additional details of the watershed, hydrodynamic, and sediment transport models can be found in the Patrick Bayou *Sediment Transport Modeling Report* (Anchor QEA 2011).

The hydrodynamic and sediment transport models provide the basis for the Site-specific chemical fate and transport model described in this appendix.

### **1.3 General Description of Modeling Framework**

The chemical fate and transport model described in this appendix is an additional modeling component that uses information from the existing hydrodynamic and sediment transport models developed for this Site, which were documented in Anchor QEA (2011). The chemical fate and transport model is linked with the hydrodynamic and sediment transport models, as illustrated in Figure 1-1.

The processes simulated by the chemical fate and transport model are depicted in Figure 1-2. The chemical fate and transport model simulates temporal and spatial changes in concentrations in the water column and sediment bed. In the water column, the model incorporates partitioning between the particulate and dissolved phases (as well as to dissolved organic carbon [DOC] in certain cases), chemical fluxes across the air-water interface due to volatilization and atmospheric deposition, and exchange fluxes at the sediment-water interface due to erosion, deposition, and dissolved-phase exchange processes. The model also simulates chemical dynamics within the sediment bed, which is discretized

into multiple layers to allow for simulation of vertical gradients in contaminant concentrations. The processes simulated in the bed include mixing (i.e., bioturbation) within the surficial sediments, vertical transport/exchange via diffusion within the porewater phase, and partitioning. The processes described above are combined together in mass balance computations for both the water column and the sediment bed.

A detailed description of underlying theory and formulations of the model code (named AQFATE) is provided in Attachment 1.

#### **1.4 Study Objectives**

The main goal of the modeling described in this appendix is to simulate physical and chemical processes that are controlling chemical fate and transport of PCBs within Patrick Bayou. Specifically, the primary objective of the modeling is to develop a mathematical framework that can: 1) build upon the existing hydrodynamic and sediment transport models for the Site; 2) provide a quantitative linkage between PCBs in sediments and PCBs in surface water (i.e., predict observed mass flux); and 3) be used as a predictive management tool to evaluate the effectiveness of remedial alternatives being evaluated in the FS, including natural recovery.

#### **1.5 Overview of Technical Approach**

Development of a mechanistic model of chemical fate and transport is a common approach for contaminated sediment sites because it provides a means of simulating physical and chemical processes that are controlling chemical fate and transport, and it allows for estimation of future conditions under natural recovery and active remediation scenarios. The U.S. Environmental Protection Agency's contaminated sediment guidance discusses development of chemical fate and transport models as a tool to support remedial decision making (USEPA 2005).

As stated above, the primary indicator chemicals for surface and subsurface sediments in Patrick Bayou are PCBs. Other chemicals of concern at the Site related to potential risk to benthos in Site sediments include polycyclic aromatic hydrocarbons (PAHs),

bis 2 ethyl-hexyl phthalate (BEHP), and lead.<sup>1</sup> The chemical fate and transport model focuses on simulation of PCBs; this is considered sufficient for purposes of the FS because PCBs are a key contributor to sediment Probable Effects Level-Quotient (PEL-Q) and are a driver for surface water quality issues. Further, it is likely that the other sorptive chemicals that contribute to PEL-Q at the Site will behave similar to PCBs with respect to natural attenuation due to deposition of clean sediments. The Patrick Bayou chemical fate and transport model incorporated data from the Site to develop the following inputs: 1) surface water concentrations at the model's boundary locations; 2) concentrations of PCBs within the sediment bed; 3) sediment bed properties such as bulk density, porosity, and organic carbon content; 4) concentrations of dissolved and particulate organic carbon within the water column; and 5) Site-specific estimates of partition coefficients for PCBs based on Site porewater sampling. The chemical fate and transport model was calibrated to multiple rounds of Site-specific data on spatial patterns of water column PCB concentrations. In addition, sensitivity analyses were conducted to evaluate the impacts of parameter uncertainty on model results. The calibrated model was then used to make future predictions of water column and sediment concentrations in Patrick Bayou.

## 1.6 Appendix Organization

This appendix is organized as follows:

- Section 2 provides information on certain updates that were made to the hydrodynamic and sediment transport models that were previously developed for

---

<sup>1</sup> During the development of the *Baseline Ecological Risk Assessment* (BERA; Anchor QEA 2013b), several different quotient or toxic unit models that have been described in the open literature to predict potential sediment toxicity based on bulk sediment chemistry were evaluated. The performance of each model was assessed by applying it to Site-specific, co-located bulk sediment chemistry data and bioassay (i.e., toxicity) data for the Site. Of the models assessed, a mean quotient model using the Probable Effects Level was initially selected based on several performance criteria identified in the BERA Work Plan. This model, referred to as the mean Probable Effects Level-Quotient (PEL-Q), was refined using a series of optimization steps in the BERA (Anchor QEA 2013b). This optimized model included four contaminants of potential concern (total PCBs, total PAHs, lead, and BEHP) that demonstrated a statistically significant difference in concentration between toxic and nontoxic samples. This mean PEL-Q metric was then used as a line of evidence, in conjunction with other lines of evidence within a weight of evidence framework in the BERA (Anchor QEA 2013b), to characterize risk to the benthic community. Thus, this metric is relevant to describing the nature and extent of surface sediment conditions with respect to the four indicator chemicals included in the RI (Anchor QEA 2013a) and discussed herein.



Patrick Bayou (Anchor QEA 2011). This section also includes an evaluation of the effects of the Deer Park Detention Basin on hydrodynamics and sediment transport within the Site.

- Section 3 provides information on the development and calibration of the chemical fate and transport model.
- Section 4 describes long-term future simulations of natural recovery and active remediation that were conducted with the model to support the FS evaluations.
- Section 5 describes an evaluation of model uncertainty that was conducted for the long-term future simulations.

---

## 2 HYDRODYNAMIC AND SEDIMENT TRANSPORT MODEL

As described in Section 1.2, a hydrodynamic and sediment transport model was previously developed and calibrated for Patrick Bayou (Anchor QEA 2011). To support the chemical fate and transport model for the Site, the hydrodynamic and sediment transport models were modified as follows:

1. The water column data collected in 2009 indicated the need to simulate changes in PCB concentrations within the upstream portion of the Site (located between stations PB101 and PB075, hereafter referred to as the concrete-lined channel<sup>2</sup>; Figure 2-1); therefore, the extent of the hydrodynamic and sediment transport model domain was extended upstream of PB075 to include this channel. Additional details on this revision to the numerical grid are provided in Section 2.1.
2. The original model simulation period for the hydrodynamic and sediment transport models was a 14-year period from 1993 through 2006 (Anchor QEA 2011). Because the primary dataset for calibration of the chemical fate and transport model is water column data collected during the RI in 2009 and 2011 (described in Section 3.2.1), the simulation period was extended to 19 years (i.e., 1993 through 2011). Additional details regarding the long-term simulation are provided in Section 2.2.
3. The 19-year hydrodynamic model simulation was also modified to include a high-flow event with an approximate 100-year return frequency to permit an evaluation of the impacts of such an event on chemical fate and transport model predictions.

### 2.1 Modifications to Numerical Grid

The concrete-lined channel located upstream of PB075 is approximately 2,800 feet long and extends from the culverts at SH 225 to the upstream portion of Patrick Bayou. The geometry of the concrete-lined channel was represented in the model as a straight, one-dimensional numerical grid that was added to the original three-dimensional numerical grid within Patrick Bayou (Figure 2-1). The numerical grid for the concrete-lined channel includes 55 grid elements with an average length and width of 50 and 30 feet, respectively. Bathymetry

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<sup>2</sup> Note that this area is a combination of a concrete-lined channel (upstream of approximately PB080) and an un-armored channel (between approximately PB075 and the railroad bridge located near PB080); however, for simplicity, this entire reach is referred to as the concrete-lined channel.

in this channel was specified as -4 feet mean sea level based on bathymetry data collected during June 2005. For the sediment transport model, the grid cells in the concrete-lined channel were set to hard bottom (i.e., no deposition or erosion), which is consistent with observations on the physical characteristics of the channel.

## **2.2 Development and Application of 19-year Simulation (1993 to 2011)**

Boundary condition inputs to the watershed, hydrodynamic, and sediment transport models for the 19-year simulation were developed by extending the original 14-year simulation period (1993 through 2006) by 5 years (i.e., to include 2007 through 2011). For the watershed model, precipitation data were obtained from the Harris County Office of Emergency Management (HC-OEM) and applied using the same methods described in Anchor QEA (2011). Results of the watershed model were used to specify freshwater inputs to the hydrodynamic model. For the hydrodynamic model, flow rates for the three OxyChem outfalls during the 19-year simulation period were specified using the average values of data collected during the 5-year period from 2007 to 2011 (i.e., 0.1, 22, and 5.5 cubic feet per second [cfs], for Outfalls 001, 002, and 003, respectively).<sup>3</sup> Tidal boundary conditions in the HSC were specified using data from the National Oceanic and Atmospheric Administration (NOAA) tidal gauge station at Morgan's Point. The magnitude and composition of incoming sediment loads were specified using the procedure discussed in Anchor QEA (2011).

The effects of a 100-year flood were incorporated into the 19-year simulation as follows. First, a random number generator was used to select one year during the period from 1993 to 2000 (selected year was 1996). The largest high-flow event during 1996 occurred in September corresponding to an event with a return period of 2 years (i.e., peak flow rate of 2,700 cfs). The September 1996 event was transformed from a 2-year event to a 100-year event (peak flow rate of 10,000 cfs) by increasing the original peak freshwater inflows by 370%.

---

<sup>3</sup> These values are different from values used historically in the hydrodynamic model and are representative of more recent operational changes that have reduced flows in these outfalls.

The “base-case” 19-year sediment transport simulation used the parameter values for the calibration simulation described in Anchor QEA (2011). Two additional 19-year simulations were conducted to evaluate the sensitivity of model results to variations in the following model inputs: 1) incoming sediment load; 2) clay/silt settling speed; and 3) effective bed roughness (see Section 3.3.2 of Anchor QEA [2011] for a description of the original sensitivity analysis). The input combinations for these “lower bound” and “upper bound” simulations corresponded to results of the original sensitivity analysis that produced minimum and maximum net sedimentation rates within Patrick Bayou, respectively (see Section 3.3.2 of Anchor QEA [2011]).

The performance and reliability of the revised hydrodynamic and sediment transport models were evaluated and compared to the original model results presented in Section 2 of Anchor QEA (2011). Because the only change to these models was an extension of the simulation period by 5 years, this evaluation showed that the performance (accuracy) of the revised model (with respect to predicted net sedimentation rates) is similar to and consistent with the original model, as expected.

### **2.3 Potential Effects of Deer Park Detention Basin**

In addition to the modifications and simulation discussed in the previous sections, potential effects of the proposed Deer Park detention basin on hydrodynamic and sediment transport model results were evaluated. The proposed detention basin is a 35-acre facility consisting of a pond and weir emplacements that are to be constructed in the City of Deer Park, with the objective of mitigating out-of-bank flooding of residential areas during high-flow events.

Information on the proposed design of the detention basin was found in four documents:

- Preliminary Engineering Report (PBS&J 2006)
- Patrick Bayou Flood Mitigation Project Environmental Assessment (Essayon Engineering & Development, Inc. 2010)
- Impact Analysis for Patrick Bayou Detention Facility (Pate Engineers 2012)
- Patrick Bayou Detention Basin City of Deer Park Construction Notes (IDS Engineering Group 2012)

Historical flooding has occurred in the residential area south of SH 225 during high-flow events when the capacity of the highway culverts is exceeded. The Harris County Flood Control District evaluated the effectiveness of various flood control measures to solve the flooding problem, with the detention basin being selected as the optimum approach to achieve the flood control objectives (PBS&J 2006). The detention basin would affect hydrodynamics in Patrick Bayou because it would distribute the flood inflows over a longer time period and also reduce the peak inflow rate. In addition, the detention basin would tend to reduce sediment loads to Patrick Bayou during extreme high-flow events.

The proposed detention basin has a storage volume of 258 acre-feet of water (PBS&J 2006). Flood flow would be diverted into the pond along the drainage channel by an in-line weir and a side weir. The combination of the weirs would function to hold back and divert the flow to the detention basin. The reports listed above primarily discuss the results of one-dimensional hydrodynamic (HEC-RAS) modeling of the 100-year flood and the design of the weir system. However, the HEC-RAS modeling only simulates steady-state conditions, and the reports do not provide detailed information on the dynamic effects of the detention basin. Thus, insufficient information was available to incorporate the effects of the proposed detention basin during high-flow events into the hydrodynamic and sediment transport models.

The available information presented in the above reports indicates that the proposed detention basin would reduce the peak flow rate into Patrick Bayou during the 100-year flood by about 10%. In addition, the detention basin would only affect flow into Patrick Bayou during floods with return periods of about 10 years or greater. For floods with return periods of 10 years or more, the reduced inflow rates to Patrick Bayou (i.e., 10% decrease for 100-year flood) would produce lower current velocities than present conditions and, thus, less sediment bed erosion. It is anticipated that the proposed detention basin would have a minor effect on sediment loads to Patrick Bayou, which would correspond to relatively minor changes in long-term sedimentation rates in the bayou.

A diagnostic simulation was conducted with the model to evaluate the potential effects of the proposed detention basin on Patrick Bayou sediment transport during a 100-year flood. For this diagnostic simulation, the peak inflow to the hydrodynamic and sediment transport

models during the 100-year flood simulation was reduced by 10% (i.e., from 10,000 to 9,000 cfs). Model predictions of the effects of a 100-year flood for current conditions (i.e., peak flow rate of 10,000 cfs) are presented in Section 3.2 of Anchor QEA (2011). The results of the diagnostic simulation (i.e., peak flow rate of 9,000 cfs) showed that the proposed detention basin would reduce net erosion depths by about 5 to 10% during the 100-year flood. This result is consistent with the reduced peak flow rate that would be produced by the proposed detention basin (i.e., reduced peak flow rate would cause lower current velocities and, thus, less erosion). Therefore, the proposed detention basin would have a relatively minor effect on hydrodynamics and sediment transport processes within Patrick Bayou during high-flow events and over multi-year periods.

---

## 3 CHEMICAL FATE AND TRANSPORT MODEL DEVELOPMENT AND CALIBRATION

### 3.1 Model Development

Application of the chemical fate and transport model framework (described in Section 1.3 and Attachment 1) to the Site was accomplished by using a combination of data collected from the Site during the RI (Anchor QEA 2013a), information on PCBs documented in the scientific literature, experience from modeling other systems, and professional judgment to specify the parameters of the governing model equations. A limited number of parameters were adjusted so that the model was able to reproduce the trends in PCB concentrations within the Site over relevant spatial and temporal scales. The subsections that follow describe the development of the model and how its various input parameters were specified.

#### 3.1.1 State Variables

The chemical fate and transport model was developed to simulate PCBs as two separate homolog groupings: the sum of mono- through nona-chlorobiphenyls (PCB<sub>1-9</sub>) and decachlorobiphenyl (PCB<sub>10</sub>). This approach was selected primarily because of the observed difference in spatial distribution of these two homolog groupings in the water column and sediments of Patrick Bayou. Figure 3-1 shows average PCB homolog weight percents in sediments downstream (top panel) and upstream (bottom panel) of approximately Station PB040. As shown in this figure, the weight percent of PCB<sub>10</sub> (relative to PCB<sub>1-9</sub>) is higher in sediments downstream of PB040 compared to sediments upstream of that location. These two homolog groupings exhibit differing spatial patterns and have different physicochemical properties (e.g., partitioning); therefore, the approach of simulating these two homolog groupings separately increases the robustness of the model. In the end, the model predictions were summed to calculate total PCBs.

#### 3.1.2 Model Grid

The chemical fate and transport model uses the same curvilinear three-dimensional grid developed for the hydrodynamic and sediment transport models described in Anchor QEA (2011). The model grid contains about 930 grid cells in the horizontal plane and is also segmented into ten layers vertically in the water column, resulting in a total of about 9,300 grid cells. Spatially, the model domain extends a total distance of approximately

2 miles, from the upstream end of the concrete-lined channel down through Patrick Bayou to its confluence with the HSC.<sup>4</sup>

The sediment bed is simulated in the chemical fate and transport model using multiple layers; such discretization of the bed is necessary to properly simulate changes in surface sediment concentrations over time and to capture vertical concentration gradients within the sediment. One of the primary uses of the model is to predict concentrations in the surficial sediment zone, which has been taken to be approximately the upper 4 inches of sediment in this application (defined based on Mixing Zone Layer Study; Anchor QEA 2009). The bed model for the Site was segmented into twelve 1-inch layers, for a total bed thickness of 1 foot. Although the total simulated bed thickness does not necessarily correspond to the total thickness of sediments across the Site, it provides ample resolution to allow for simulation of the surface sediment layer (i.e., top 4 inches), as well as potential interactions of that layer with deeper sediments.

### **3.1.3 Boundary Conditions and External Sources**

As described in Anchor QEA (2011), the hydrodynamic model is defined by several boundary conditions: 1) an upstream inflow boundary at Station PB101; 2) inflow from the East Fork; and 3) two downstream water surface elevation boundaries (i.e., free surface that reflects tidal fluctuations) within the HSC, with one boundary located upstream of Patrick Bayou and the other located downstream. Locations of these boundaries are shown in Figure 3-2.

The chemical fate and transport model requires that contaminant concentrations be specified at each of these boundaries throughout the model calibration period. The available surface water data at these boundary locations were limited, but exhibited limited variability in PCB concentrations; as such, boundary condition concentrations were based on average values calculated from the data. The following samples were used to calculate average water

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<sup>4</sup> As described in Anchor QEA (2011), the model domain also includes a 4-mile portion of the HSC that extends from the NOAA gauging station at Battleship Texas State Park (downstream boundary) to a location about 2 miles upstream of Patrick Bayou confluence. Inclusion of the HSC in the model domain increases the predictive capability and reliability of the hydrodynamic model; however, the chemical fate and transport model calculations are only relevant within Patrick Bayou, not the HSC.



column concentrations at each of the various boundary locations (sample locations are shown in Figure 3-2):

- **Upstream Inflow Boundary:** This boundary condition was characterized by one water column sample collected at Station PB101 during the RI in 2011.
- **East Fork Inflow Boundary:** This boundary condition was characterized by two water column samples collected at Station EF006 during the RI in 2009.
- **HSC Downstream Boundaries:** The HSC boundary conditions were characterized by water column sampling data collected as part of the Patrick Bayou Total Maximum Daily Load (TMDL) Study conducted by the Texas Commission on Environmental Quality (TCEQ). The upstream and downstream boundary concentrations in the HSC were characterized by PCB concentrations at TMDL sampling stations 15979 and 11264, respectively.

Table 3-1 contains a summary of the average water column concentrations at the sampling locations described above.

**Table 3-1**  
**Mean PCB Concentrations at Locations Near Model Boundaries**

Location	Station	PCB <sub>1-9</sub> (ng/L)	PCB <sub>10</sub> (ng/L)	Number of Samples	Collection Date Range
PB Upstream	PB101	5.3	0.0094 (ND)	1	August 2011
East Fork	EF006	2.2	0.076	2	November 2009
HSC (Upstream)	15979	3.8	0.72	4	August 2002 to May 2009
HSC (Downstream)	11264	3.3	0.50	4	August 2002 to May 2009

Notes:

ND – non-detect

ng/L – nanograms per liter

These average concentrations were specified in the model to be constant over time, in all ten vertical water column layers at the respective boundaries. The hydrodynamic model also specifies inflows for three industrial outfalls and three direct runoff locations in the main channel of Patrick Bayou (Anchor QEA 2011); PCB concentrations for all six of these inflows were set to zero given that current direct discharge to the Site from permitted outfalls is not

considered a significant source of contaminants to the Site (see Section 5.2 of the RI, Anchor QEA 2013a).

### **3.1.4 Initial Conditions**

The chemical fate and transport model was initially calibrated to surface water data collected in 2009 and 2011 (described in detail in Section 3.2); thus, initial concentrations in the model needed to be specified consistent with PCB levels observed in the system in 2009. The following subsections describe how initial water column and sediment concentrations were specified in the chemical fate and transport model.

#### **3.1.4.1 Water Column**

The chemical fate and transport model requires specification of an initial water column concentration within each horizontal and vertical grid cell at the beginning of a model simulation. In general, surface water model predictions are insensitive to water column initial conditions because the water containing these initial concentrations is “washed out” of the system relatively quickly by incoming flows and tides. As a result, initial water column concentrations in the model were set to zero, and the model rapidly “spun up” to concentrations that reflect inputs from boundaries and fluxes from sediments.

#### **3.1.4.2 Sediment Bed**

The chemical fate and transport model requires specification of an initial sediment concentration within each grid cell and for each vertical layer within the simulated bed at the beginning of a model simulation. Surface sediment data from the RI collected in 2009 were used to define the initial sediment concentrations within Patrick Bayou. These data provided good spatial coverage within Patrick Bayou, although spatial coverage in the concrete-lined channel was somewhat limited in this dataset. The 2009 RI sediment dataset generally characterized PCBs within the top 4 inches of sediment; data to characterize PCB concentrations at depth were limited to 12 deeper, high-resolution cores collected throughout Patrick Bayou in 2006. The methods used to assign initial sediment concentrations in the model based on these data are described in the following subsections.

### 3.1.4.2.1 Surface Sediments

The methodology used to develop surface sediment initial conditions was to interpolate the 2009 PCB data using inverse distance weighting (IDW), consistent with the methods used in the RI.<sup>5</sup> The interpolation was performed at a 1-foot horizontal resolution and then projected onto the fate model grid by spatially averaging the interpolated values within each model grid cell. The process described above was repeated for each of the two homolog groupings simulated by the model (i.e., PCB<sub>1-9</sub> and PCB<sub>10</sub>). Figures 3-3a and 3-3b present the following: 1) the original raw 2009 surface sediment data; 2) the IDW interpolated surface generated based on the data; and 3) the final surface sediment initial conditions specified for the model grid for PCB<sub>1-9</sub> and PCB<sub>10</sub>, respectively.<sup>6</sup>

Because the 2009 sediment data represent the top 4 inches of sediment, the initial concentrations described above were specified for each of the top four 1-inch layers of the sediment bed in the model.

### 3.1.4.2.2 Subsurface Sediment

As described above, fewer data are available to characterize the subsurface sediments (i.e., 12 high-resolution sediment cores collected in 2006). Data from these cores were reviewed to develop scale factors that were applied to the interpolated surface sediment concentrations to estimate subsurface concentrations for use in the model. Vertical profiles of PCB concentrations observed in the 2006 cores generally showed increasing concentrations with depth in many areas of the Site; thus, scale factors were developed that varied over both space (i.e., longitudinal distance along Patrick Bayou) and depth to represent the observed patterns. Subsurface scale factors were developed by calculating the ratio of subsurface to surface sediment PCB concentrations in each interval within each high-resolution core; these ratios are plotted as a function of depth in Figure 3-4. The dotted line in this figure

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<sup>5</sup> To increase normality in the surface sediment data used to develop the fate model initial conditions, the concentrations were log transformed prior to the IDW analysis. This log transformation approach follows the data treatment used for total PCBs in the BERA (Anchor QEA 2013b). After the interpolation, the results were back-transformed prior to averaging the values onto the fate model grid.

<sup>6</sup> Note that the model grid includes both the main channel of Patrick Bayou and a portion of the floodplain (as shown in Figure 2-1). As such, sediment PCB inputs were developed for the entire model grid (i.e., the IDW interpolation shown in the middle panels of Figures 3-3a and 3-3b extend out into the floodplain). However, the model results focus on the main channel.

represents the average scale factor within each depth interval; Table 3-2 provides a summary of these average scale factors that were then applied to the surface sediment initial conditions to estimate subsurface concentrations in the model.

**Table 3-2**  
**Surface Sediment Scale Factors Used to Estimate Deep Sediment Concentrations**

Model Layers	Depth (inches)	Sediment PCB Concentration Scale Factor (Relative to Surface)		
		HSC to PB030	PB030 to PB073	Upstream of PB073
1 – 4	0 – 4	1	1	1
5 – 8	4 – 8	2	5	1
9 – 12	8 – 12	4	15	1

### 3.1.5 Partition Coefficients

Due to the hydrophobic nature of PCBs, partitioning between particulate and dissolved phases is a key process affecting PCB fate and transport in a surface water/sediment system. Partitioning of organic contaminants between the aqueous and sorbed (i.e., sediment) phases is described in the fate and transport model using chemical-specific organic carbon equilibrium partition coefficients ( $K_{oc}$ ; see Section 2.3 of Attachment 1). In addition, DOC can account for an important fraction of sorption for highly hydrophobic contaminants (such as PCBs), so a  $K_{doc}$  (e.g., see Equation 8 in Attachment 1) was also specified for the model. Selection of values for  $K_{oc}$  and  $K_{doc}$  for use in the model was based on a review of literature sources and a detailed assessment of the sediment porewater data collected during the RI, as described in the remainder of this section.

Paired measurements of PCB concentrations in sediment and porewater from ten samples collected in Patrick Bayou during the RI were first used to estimate Site-specific  $K_{oc}$  values using the traditional two-phase partitioning model shown by the equation below:

$$K_{oc} = \frac{C_s}{C_d f_{oc}}$$

where:

- $C_s$  = PCB concentration associated with the sediment phase (milligrams per kilogram [mg/kg] dry sediment)
- $C_d$  = freely dissolved porewater concentration (mg/L)
- $f_{oc}$  = total organic carbon (TOC) fraction in sediment

Initial calculations produced  $K_{oc}$  values that were lower than anticipated based on literature. Additional review of the data and sampling procedures indicated that the porewater concentrations likely contained some amount of particulate matter in the samples because no filtration was performed after extraction of porewater from the sediments (Anchor Environmental, L.L.C. 2007). For example, measurements of TOC and DOC in the porewater samples differed by significant amounts, with TOC being twice as high as DOC on average, confirming the presence of particulate matter in the samples. Therefore, the calculation of Site-specific  $K_{oc}$  values was revised to include a correction to account for the presence of particulate matter in the samples. The correction involved subtracting out the particulate-phase contribution to the porewater PCB concentration (i.e., to convert it to the freely dissolved concentration) using measured TOC and DOC in the samples and literature-based estimates of  $K_{oc}$  and  $K_{doc}$  (which were subsequently found to be similar to the final calculated values). Following correction of the porewater data, the calculated Site-specific  $K_{oc}$  values for the ten samples ranged as follows:

- PCB<sub>1-9</sub> log  $K_{oc}$  range: 4.6 to 5.6 liters per kilogram (L/kg)
- PCB<sub>10</sub> log  $K_{oc}$  range: 6.1 to 7.2 L/kg

As expected, calculated log  $K_{oc}$  values for PCB<sub>10</sub> were higher than the values for PCB<sub>1-9</sub> because PCB<sub>10</sub> is more hydrophobic.

As a means of checking these ranges,  $K_{oc}$  values for PCB homologs were also developed using several widely used literature models (DiToro 1985; Baker et al. 1996; Swackhamer and Armstrong 1987) that calculate  $K_{oc}$  based on the chemical's octanol-water partition coefficient ( $K_{ow}$ ), which is also well documented in the literature for PCBs (e.g., Hawker and Connell 1988). These literature models yielded a range of partition coefficients for each of the modeled homolog groupings that generally matched the values calculated from the

Site-specific porewater data listed above (e.g., log  $K_{oc}$  of 5 to 6 for PCB<sub>1-9</sub> and 7 to 8 for PCB<sub>10</sub>). The calculated Site-specific  $K_{oc}$  ranges listed above, as well as the literature-based ranges, were used to guide selection of final  $K_{oc}$  values during model calibration. The final log  $K_{oc}$  values specified in the model were 5.3 and 7.5 for PCB<sub>1-9</sub> and PCB<sub>10</sub>, respectively.

In addition, sorption to dissolved organic matter can be important for contaminants with log  $K_{ow}$  values greater than approximately 6 to 7 (e.g., Chiou et al. 1986). Therefore, based on the partition coefficient ( $K_{oc}$ ) values summarized above, a three-phase partitioning formulation was used in the model by specifying a value for  $K_{doc}$ . Predictive relationships developed by Burkhard (2000) for sediment porewater and surface waters were used to specify  $K_{doc}$  in the fate and transport model ( $K_{doc} = 0.1 K_{oc}$  in sediment porewater and  $K_{doc} = 0.01 K_{oc}$  in surface water).

### **3.1.6 Parameterization for Water Column Processes**

A number of parameters representing physical- and chemical-specific characteristics and fate and transport properties within the water column needed to be specified in the model (i.e., the various parameters included in the equations presented in Attachment 1). These parameters and coefficients were developed from a combination of Site data (when available), literature, and experience with other systems. A brief description of each of the water column input parameters is included in the subsections below.

#### **3.1.6.1 Water Temperature**

The rates of most kinetic reactions in natural waters increase with temperature (e.g., Chapra 1997). Water temperature is used within the chemical fate and transport model to account for such temperature effects. For example, as discussed in Section 2.6.1.3 of Attachment 1, several of the terms used in calculating the volatilization mass transfer coefficient are a function of water temperature.

Water temperature data from three RI sampling locations located in Patrick Bayou (PB020, PB045, and PB075) and one NOAA station located relatively close to the Site at Battleship Texas State Park (Station No. 8770743) were obtained to develop an annual temperature function for the fate and transport model based on measurements from a representative

4-year period (2004 to 2008). A monthly average temperature function was specified in the model based on these data, because year-to-year variations in this cycle are not significant on the timescales of importance. Figure 3-5 shows the water temperature data and the monthly average function that was fit through these data and input to the fate and transport model.

### 3.1.6.2 Volatilization Parameters

Based on the equations presented in Section 2.6.1.3 of Attachment 1, the model computes volatilization flux for each computational grid element dynamically over the course of a simulation. The following parameters are provided as input to the model to support these calculations:

- Henry's Law Constant (HLC): The model uses the input value of HLC divided by the product of the absolute water temperature and universal gas constant to dynamically calculate the unitless HLC. HLC values used in the model for PCB<sub>1-9</sub> and PCB<sub>10</sub> were assigned based on published literature (Table 3-3).
- Concentration of contaminant in ambient air: This input was set equal to zero for both PCB<sub>1-9</sub> and PCB<sub>10</sub> because atmospheric concentrations (vapor phase) of PCBs are typically several orders of magnitude lower than those in water, due to the fact that PCBs have very low fugacity in air.
- Wind speed (at an elevation of 10 meters): A constant value of 3.6 meters per second was used, consistent with average wind speed in Houston, Texas, as recorded by NOAA.<sup>7</sup>
- The molecular weight and molar volume of each contaminant: These inputs are used by the model to dynamically calculate the Schmidt Number of the contaminant in air and water as a function of temperature. Values were assigned based on published chemical properties literature (Table 3-3).

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<sup>7</sup> <http://www.ncdc.noaa.gov/oa/climate/online/ccd/avgwind.html>

**Table 3-3**  
**Summary of Chemical-specific Parameters Used in Volatilization Equations**

Modeling Compound	Molecular Weight <sup>a</sup> (g/mol)	Molar Volume <sup>b</sup> (cm <sup>3</sup> /mol)	Henry's Law Constant <sup>c</sup> (J/mol)
PCB <sub>1-9</sub>	299	270	20
PCB <sub>10</sub>	499	394	5

Notes:

- a Molecular weights were calculated for each homolog grouping using the periodic table and chemical formulas. Molecular weight for PCB<sub>1-9</sub> was calculated from these homolog-specific values and the relative weight percent of each homolog grouping in water and sediment sample results.
- b Molar volume values are presented in Mackay et al. 1992 (referenced as LeBas method; Shiu and Mackay [1986]). Molar volume for PCB<sub>1-9</sub> was calculated from individual homolog values and the relative weight percent of each homolog grouping in water and sediment sample results.
- c HLC values were selected after review of several literature sources (USEPA 2012; Brunner et al. 1990; Bamford et al. 2000; and Fang et al. 2006), and are generally equivalent to the mid-point of the ranges reported in these references.

cm<sup>3</sup>/mol – cubic centimeters per mole

g/mol – grams per mole

J/mol – Joules per mole

The remaining parameters used in the volatilization equations presented in Attachment 1 are computed internally by the model or are provided as model inputs as in the case of temperature. Although the volatilization gas and liquid phase mass transfer coefficients are computed internally within the model, the model overrides the computed values if they are lower than a user-defined value. Minimum gas- and liquid-phase mass transfer coefficients of 100 and 0.0864 meters per day, respectively, were assigned based on Mackay and Yeun (1983). Finally, the temperature correction for the overall volatilization mass transfer coefficient was based on a typical  $\theta$  value in the Arrhenius Equation of 1.025 (Chapra 1997).

### 3.1.6.3 Water Column Organic Carbon

The chemical fate and transport model requires specification of organic carbon concentrations for water column particulate matter ( $f_{oc}$ ), as well as the dissolved phase (i.e., DOC), to allow calculation of three-phase equilibrium partitioning according to the equations presented in Section 2.3 of Attachment 1. There are no direct measurements of the organic carbon content of water column particulate matter (i.e., reported on a mass fraction basis as  $f_{oc}$ ) for the Site. Calculation of  $f_{oc}$  was considered using measured TOC, DOC, and total suspended solids concentrations in the surface water, but it could not be



reliably calculated because differences between measured DOC and TOC were less than the precision of the two measurements. Therefore, a spatially and temporally constant  $f_{oc}$  value of 10% was specified for the Patrick Bayou fate and transport model based on data from other sites.<sup>8</sup>

As discussed in Anchor QEA (2011), the sediment transport model simulates four sediment size classes (Class 1 represents clay/silt-sized particles and Class 2 through Class 4 represent particle sizes corresponding to sands and gravel). The information directly passed to the chemical fate and transport model by the sediment transport model (sediment size classes and erosion and deposition fluxes) is done so separately for each simulated size class; therefore, water column  $f_{oc}$  values are required for each simulated size class. As discussed in Section 3.1.7.2.1, evaluation of sediment TOC and grain size relationships suggests that Class 1 sediment has an organic carbon content that averages seven times higher than that of the coarser sediment size classes. That same relationship was maintained for the organic carbon content of water column suspended sediments specified in the model. The total  $f_{oc}$  developed from the average of 10% (described above) translates to an  $f_{oc}$  on water column size Class 1 particles of 11%, and 1.6% on water column size Class 2 through Class 4—these values were specified as model inputs.

Water column DOC collected during the RI showed spatial variation across the Site (Figure 3-6); DOC was generally highest in Patrick Bayou immediately downstream of the concrete-lined channel, and decreased with distance downstream toward the HSC. Therefore, water column DOC was specified as spatially variable (temporally constant) in the fate and transport model; the green dashed line in Figure 3-6 represents the values specified in the model.

### **3.1.7 Parameterization for Sediment Processes**

A number of parameters representing physical and chemical-specific characteristics and fate and transport properties within the sediment bed needed to be specified in the model (i.e., the various parameters included in the equations presented in Attachment 1). These

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<sup>8</sup> For example, data from the nearby San Jacinto River indicated an average water column  $f_{oc}$  of approximately 9% (Anchor QEA 2012).

parameters and coefficients were developed from a combination of Site data (when available), literature, and experience with other systems. A brief description of each of the sediment bed input parameters is included in the following subsections.

### 3.1.7.1 *Sediment Bed Physical Properties*

The chemical fate and transport model uses two parameters to characterize the physical properties of the sediment bed: bulk density (on a dry weight basis) and porosity. Fate model input values for these two parameters were specified consistent with values used in the sediment transport model; spatially and temporally constant values of 0.77 and 0.7 grams per cubic centimeter were specified for bulk density and porosity, respectively.

### 3.1.7.2 *Sediment Organic Carbon*

#### 3.1.7.2.1 Fraction Organic Carbon

The fate and transport model requires specification of the organic carbon content of sediments to allow calculation of contaminant partitioning in the bed. As described in Anchor QEA (2011), the sediment transport model simulates sediment in the following four particle size classes:

- Class 1: less than 62 micrometers ( $\mu\text{m}$ ) (silt/clay)
- Class 2: 62 to 250  $\mu\text{m}$  (fine sand)
- Class 3: 250 to 1,000  $\mu\text{m}$  (medium/coarse sand)
- Class 4: greater than 1,000  $\mu\text{m}$  (coarse sand and gravel)

It is necessary to specify an organic carbon fraction for each of these size classes in the fate and transport model. Analysis of Site-specific data indicates that organic carbon varies by sediment size class, which is expected (e.g., fine sediments generally have a higher organic carbon content than coarse sediments). Figure 3-7 shows  $f_{oc}$  in RI surface sediment samples compared to the percent of Class 1 sediments (i.e., fraction silt and clay) based on grain size data from the corresponding samples. This figure demonstrates there is a positive relationship between these two parameters, in which samples with a higher fraction of clay and silt have higher organic carbon. Evaluations exploring similar relationships between  $f_{oc}$  and the percent by weight for the other size classes indicated that the sediment size Class 1

content (i.e., silt/clay) exhibited the strongest relationships with  $f_{oc}$  and that differences in  $f_{oc}$  among the three coarser sediment size classes (i.e., Class 2 through Class 4) were small.

To represent the observed variation in  $f_{oc}$  with grain size demonstrated by the Site data, a two-class mixing formulation was used to fit the relationship illustrated by the data. This formulation assumed that the  $f_{oc}$  of the coarse sediment fractions (i.e., Class 2 through Class 4) can be expressed as a ratio of the  $f_{oc}$  of sediment size Class 1. Based on this approach, a log-linear least squares regression was performed to develop a best fit to the data, as shown by the line in Figure 3-7. This best fit line corresponds to a ratio of  $f_{oc}$  in sediment size Class 1 to  $f_{oc}$  in sediment size Class 2 through Class 4 of seven. That is, this formulation indicates that the  $f_{oc}$  of sediment size Class 1 is approximately seven times higher than that of the coarser fractions. This difference is evident by the  $f_{oc}$  values at the two extreme ends of the data shown in Figure 3-7: the average  $f_{oc}$  of samples with almost 100% silt/clay (Class 1) is approximately 4%, whereas the  $f_{oc}$  of samples with almost no silt/clay (Class 1) averages approximately 0.6%.

The sediment  $f_{oc}$  was then specified in the model so that, at any point in space, it matched both the TOC from the nearby surface sediment sample, as well as the observed sevenfold difference in  $f_{oc}$  among sediment size classes discussed above. First, an IDW interpolation was performed for the surface sediment TOC data (using the same dataset and interpolation approach used to develop the sediment initial conditions as described in Section 3.1.4.2). Second, the IDW raster surface was averaged over the model grid giving each model grid cell a TOC value (using the same approach described in Section 3.1.4.2 to develop the sediment initial conditions). Figure 3-8 shows the following: 1) the original raw surface sediment TOC data; 2) the IDW raster surface generated based on the TOC data; and 3) the final TOC concentrations mapped onto the model grid. Third, for each model grid cell, organic carbon was apportioned among the four sediment size classes based on the size class distribution predicted by the sediment transport model at that location. For example, consider one sample location with a TOC of 5%. If the sediments at that location are 70% sediment size Class 1 and 30% Class 2 through Class 4, the resulting Class 1  $f_{oc}$  would be 6.7% and that of Class 2 through Class 4 would be 0.96% based on the ratio of 7 between Class 1 and Class 2 through Class 4.

### 3.1.7.2.2 Porewater Dissolved Organic Carbon

Porewater DOC values in samples collected from Patrick Bayou ranged from 12 to 57 mg/L, with an average of approximately 30 mg/L. These data did not exhibit any strong spatial pattern; therefore, a constant value of 30 mg/L was specified in the fate and transport model.

### 3.1.7.3 *Sediment Bed Mass Transport Parameters*

In addition to chemical fluxes associated with deposition and resuspension (predicted by the sediment transport model), the fate and transport model simulates the following three processes by which contaminants are transported vertically within the sediment bed and/or exchanged with the overlying water column (see Sections 2.4.2 and 2.5 of Attachment 1):

1) diffusion of dissolved-phase and DOC-bound contaminants within sediment porewater; 2) exchange of dissolved-phase and DOC-bound contaminants at the sediment/water interface; and 3) mixing (bioturbation) of particulate-phase (as well as dissolved-phase and DOC-bound) contaminants within the upper layers of the bed. The following subsections discuss how each of these mass transport processes was parameterized in the model.

#### 3.1.7.3.1 Porewater Diffusion

Diffusive transport of contaminants within sediment porewater is computed in the model using a molecular diffusion coefficient, which is adjusted by a tortuosity factor to account for porous media effects (see Section 2.4.2 of Attachment 1). Molecular diffusion coefficient values for the two simulated PCB homolog groupings were specified based on literature (USEPA 2005):

- PCB<sub>1-9</sub>: 2.0E-06 square centimeters per second (cm<sup>2</sup>/s)
- PCB<sub>10</sub>: 1.6E-06 cm<sup>2</sup>/s

These molecular diffusion coefficients were subsequently multiplied by a tortuosity factor of 0.25, based on the formulations of Boudreau (1996), which relates tortuosity to the porosity of the sediment.

### 3.1.7.3.2 Surface Porewater Exchange

As described in Section 2.5 of Attachment 1, the fate and transport model employs a surface porewater exchange coefficient ( $k_f$ ) to represent the combined effects of a number of processes occurring at the sediment surface that result in a dissolved-phase mass transfer at the sediment-water interface (e.g., diffusion, bioturbation-driven porewater release, gas ebullition, tidal pumping). Because these processes act in unison and are difficult or impossible to measure independently in the field, and the magnitude of each can vary from site to site,  $k_f$  is a site-specific empirical parameter. As discussed in Section 2.5 of Attachment 1, Thibodeaux et al. (2001) developed a two-layer theoretical model of the exchange process in which the overall mass transfer rate is controlled by mass transfer in two discrete layers: a water-side layer and a sediment-side layer. The Thibodeaux et al. (2001) two-layer formulation predicts that much of the variation in  $k_f$  observed among different contaminants at a given site can be explained by their partition coefficients (because the mass transport is limited by sorption and mixing in the sediment side for contaminants that bind strongly to particulates; e.g., Thibodeaux and Bierman 2003).

$k_f$  was treated as a calibration parameter for the fate and transport model; however, the relationship between  $k_f$  and  $K_{oc}$  predicted by the Thibodeaux et al. (2001) two-layer formulation indicated that the  $k_f$  for PCB<sub>10</sub> should be approximately 1.5 times higher than that for PCB<sub>1-9</sub>. Based on this approach, the final calibrated  $k_f$  values were 12 centimeters per day (cm/d) for PCB<sub>1-9</sub> and 18 cm/d for PCB<sub>10</sub>, which are in the range of values published in the literature (e.g., Erickson et al. 2005) and used for modeling PCBs at other sites (e.g., USEPA 2000; Anchor QEA 2012).

### 3.1.7.3.3 Mixing (Bioturbation)

As described in Section 2.4.2 of Attachment 1, the fate and transport model represents mixing by bioturbation as a vertical dispersion process. Within the fate and transport model, each discrete sediment bed layer (1 inch thick in this application) is completely mixed; mixing between adjacent sediment bed layers occurs according to a mixing rate that is input to the model. The depth and rate of mixing are difficult to measure at a given site; general ranges have been reported in the literature, and they are known to vary from site to site depending on a number of factors. For this model, mixing was specified to occur over the

top 4 inches of sediment (which corresponds to the upper four layers of the bed model) based on results of the Patrick Bayou Sediment Mixing-Zone Layer Study (Anchor QEA 2009). The mixing rate between these layers of the model was specified to be 1E-6 cm<sup>2</sup>/s. This specified mixing rate is uncertain, although it is well within the range of values observed or estimated from other sites (e.g., Thoms et al. 1995; Clarke et al. 2001; Reible 2012).

## **3.2 Model Calibration**

### **3.2.1 Calibration Approach**

Model calibration is the process whereby model inputs or parameters that are relatively uncertain, and to which the model is relatively sensitive, are adjusted to improve the “fit” of the model predictions to the available Site data over the specified calibration period. These adjustments are made based on a combination of values from published literature, observed ranges in Site data, and experience from other systems.

The calibration period for the Patrick Bayou chemical fate and transport model was a 1-year period that utilized hydrologic conditions from 2009. The calibration process focused on reproducing observed longitudinal gradients in whole-water PCB<sub>1-9</sub> and PCB<sub>10</sub> (and total PCB) concentrations in water column samples collected in 2009 and 2011.<sup>9</sup> Two adjustments to input parameters were made to calibrate the fate and transport model. First, surface porewater exchange coefficients (see Section 3.1.7.3.2) were adjusted by less than a factor of 2; the final values were well within the ranges reported in the literature and used for modeling of other systems. Second, partition coefficients for PCB<sub>1-9</sub> and PCB<sub>10</sub> were adjusted within the range of values estimated based on the Site-specific data and literature (see Section 3.1.5).

Figure 3-9 shows a spatial profile of the 2009/2011 water column total PCB data that were used for model calibration. These data show a prominent increase in water column concentration based on the data collected near the upstream and downstream ends of the concrete-lined channel (the upstream and downstream ends of the concrete-lined channel are indicated by vertical dashed lines in the figure); total PCB concentrations increase from

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<sup>9</sup> Note that the model calibration was later refined based on additional water column data collected in 2014 (see Section 3.2.3).

approximately 5 nanograms per liter (ng/L) to nearly 100 ng/L between these locations. Water column concentrations downstream of the concrete-lined channel within Patrick Bayou increase further to approximately 200 ng/L in the general area of Station PB030 and then decline to approximately 80 to 100 ng/L near the confluence with the HSC (concentrations within the HSC are low, in the range of 2 to 4 ng/L). Initial attempts at calibrating the model were unable to match the large observed increase in water column concentration across the concrete-lined channel. Because the only known PCB source in that reach is sediments, the model calibration was first attempted by increasing the surface porewater exchange coefficient ( $k_f$ ) to result in a greater transfer of PCBs from the sediment porewater into the overlying water column. This approach resulted in a continued under-prediction of water column PCBs in the concrete-lined channel (although to a lesser degree), but a large over-prediction of observed water column PCBs downstream in Patrick Bayou. Based on this modeling exercise, it was concluded that there is likely an uncharacterized source of PCBs to the water column within this reach, and the only way to calibrate the fate and transport model to the observed water column spatial profile was to include an additional PCB mass flux term within the concrete-lined channel. Possible explanations of the nature of this source include:

- Disproportionately high sediment/porewater PCB concentrations that may not have been fully characterized during the RI. Oily sediments and sheens were observed in this area during the RI (particularly in the vicinity of PB080). Because this channel is concrete-lined on its sides, with a “natural” bottom containing large amounts of debris, it has proven difficult to collect sediment samples in this area, which may explain why sediments in this reach may not have been fully characterized.
- Advective flow of groundwater through the PCB-contaminated sediments within this reach. This reach is an incised channel (i.e., sloped, concrete sides with a natural bottom), which could represent an area of preferential flow of groundwater up through sediments. Under this mechanism, uncontaminated groundwater flow could drive PCBs contained in sediment deposits to continually desorb into the porewater as it flows into the overlying water column.
- A combination of the two hypotheses described above

Preliminary simulations indicated this source could be represented a number of different ways in the model. Given that the specific nature of this source is unknown, it was

represented in the model as a distributed loading (specified mass per unit time) across this reach.<sup>10</sup> Further, it was assumed that this source did not change over time during the 1-year simulation that was used for calibration to the 2009 and 2011 RI data. Additional water column data were collected in 2014 to develop a better understanding of the nature and extent of PCBs in surface water of the concrete-lined channel. The model calibration results described in Section 3.2.2 describe the initial calibration of the model to the 2009/2011 water column data that was completed prior to collection of the 2014 water column data. Section 3.2.3 describes a revised calibration of the model to the 2014 water column data, in which the distributed loading in the concrete-lined channel was updated.

### **3.2.2 Calibration Results**

The results from the model calibration are presented in a series of graphics comparing model predictions with observed PCB concentrations. Longitudinal profiles of water column PCB concentrations are presented for PCB<sub>1-9</sub>, PCB<sub>10</sub>, and total PCB in Figures 3-10a through 3-10c, respectively. In these figures, the data are presented as discrete data points at the sampling station in which they were collected. Blue symbols represent water column samples collected in 2009, and samples collected in 2011 are shown in red. There are multiple sample points at each 2009 location because water column samples were collected during two tidal conditions (one at approximately slack low tide and the second at approximately mid-tide [ebb tide]) and two different depths (mid-depth and near bottom). All samples collected during 2011 were collected at mid-depth during ebb tide. For comparison to these data on a longitudinal profile, model results were averaged temporally (over the 1-year calibration period), vertically (over all ten model water column layers), and laterally (i.e., across the channel) for each longitudinal grid element, as shown by the solid lines. The ranges associated with the model averages are also indicated in these figures as dashed lines.

In general, the calibration results shown in Figures 3-10a to 3-10c indicate that the model captures the observed longitudinal gradients in PCB concentrations across Patrick Bayou. Specifically, the model generally reproduces the observed increase in PCB<sub>1-9</sub> (and total PCBs)

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<sup>10</sup> The longitudinal distribution of this distributed PCB loading in the concrete-lined channel was developed based on the observed 2014 water column PCB spatial profile over this reach described in Section 3.2.3.



across the concrete-lined channel, followed by the approximate 1.5X increase in observed water column concentration from the downstream end of the concrete-lined channel to the downstream end of Patrick Bayou (Figures 3-10a and 3-10c). The model also captures the observed significant decline in concentration near the confluence and moving out into the HSC. For PCB<sub>10</sub>, the model captures the observed increase in water column concentrations downstream of PB040 (Figure 3-10b), which differs from the pattern for PCB<sub>1-9</sub> and is a result of spatial variations in PCB composition. The ability of the model to simulate these differing patterns with no changes to input parameters beyond chemical-specific properties and sediment concentrations provides added confidence that the model is reliably calculating flux from sediments and porewater to the water column.

### **3.2.3 Revised Calibration to 2014 Water Column Data**

As described in Section 3.2.1, additional water column data were collected in 2014 to develop a better understanding of the surface water PCB concentrations at the Site, including characterization of PCBs at a finer spatial resolution in the concrete-lined channel.

Figure 3-11 shows a spatial profile of the water column total PCB data collected in 2014 (green symbols) along with the 2009/2011 water column total PCB data shown in Figures 3-9 and 3-10. Figure 3-11 illustrates the following:

- The 2014 data collected within the concrete-lined channel provide better spatial resolution of the PCB source within this reach. Specifically, these data show a relatively small PCB concentration increase between stations PB100 and PB080 from approximately 5 to 10 ng/L, followed by a larger increase from approximately 10 to 70 ng/L between stations PB080 and PB070.
- The 2014 water column PCB results are systematically lower than those collected previously. Several factors were evaluated to attempt to explain the observed differences between the 2009/2011 and 2014 datasets, including differences in sampling locations, tidal conditions, flows, and antecedent precipitation. Based on this evaluation, it was determined that there were no significant differences in any of these factors that could explain the change in water column PCB concentration over

this 5-year period.<sup>11</sup> As such, it was concluded that the observed reduction in water column concentrations between 2009 and 2014 was a result of natural attenuation processes, including some reduction in the magnitude of the upstream source loading within the concrete-lined channel, as well as reductions in surface sediment concentrations in downstream portions of Patrick Bayou associated with sedimentation.

The model calibration, therefore, was adjusted by modifying the distributed PCB loading within the concrete-lined channel to match the observed 2014 water column data collected within this reach. In addition, the fate and transport model (previously calibrated to water column data collected in 2009, and parameterized using initial sediment concentrations measured in 2009) was run for a period of 5 years to account for reductions in surface sediment concentrations that may have occurred between 2009 and 2014 as a result of ongoing sedimentation.<sup>12</sup> As shown in Figure 3-12, this revised calibration simulation showed good agreement with the water column data collected in 2014 (with the exception of the three points collected between PB020 and PB050 described in footnote 11).

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<sup>11</sup> Tidal conditions at the time of sampling were relatively consistent between the sampling conducted during 2009/2011 and 2014 (i.e., samples were generally collected during low tide). Flows estimated based on velocity measurements collected during the 2014 sampling were low (generally less than or equal to 15 cfs); flow/velocity measurements were not taken during the 2009/2011 sampling; however, field personnel present during all three water column sampling events indicated flow conditions in 2009/2011 were similar to those in 2014. Antecedent precipitation in the week prior to sample collection was also relatively consistent between all three sampling events; there was no rain in the week prior to sampling in 2009 and 2011, and only approximately 0.5 inches of rain in the week prior to the 2014 sampling event. Lastly, sampling locations were generally consistent during the three sampling events. However, one possible exception is the three locations sampled in 2014 between stations PB020 and PB050 (shown as open symbols in Figure 3-11). The 2014 results for these three locations were considerably lower than the remaining 2014 sampling locations relative to 2009/2011. The one location sampled in this area during 2009 (near PB030) was collected from the center of the channel. By contrast, the three locations sampled in this area in 2014 were collected near shore and may have been influenced by dilution from non-contact flow through water from the HSC being discharged from nearby OxyChem Outfalls 002 and 003, or may have been affected by incomplete lateral mixing of the water column.

<sup>12</sup> This 5-year simulation used hydrologic conditions from 2007 through 2011 because the hydrodynamic model simulation period covers the period of 1993 through 2011 (see Section 2.2).

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## 4 LONG-TERM FUTURE SIMULATIONS

This section presents the results of model projection simulations that were conducted to estimate the effectiveness of remedial alternatives being evaluated in the FS, including natural recovery. Specifically, the model projection simulations were used to support and evaluate the ability of the remedial alternatives and natural recovery to achieve the remedial action objectives (RAOs) for the Site.

### 4.1 Approach and Setup

For the long-term future simulations conducted to support the FS, the fate and transport model used the long-term, 19-year hydrodynamic and sediment transport simulations described in Section 2 (which included the effects of a 100-year flood that occurs in the fourth year of the 19-year simulation period), combined with the 5-year period simulated from 2009 to 2014 as part of the revised calibration to the 2014 water column data (described in Section 3.2.3). As such, the total simulation period for the model projections was 24 years (using 2009 sediment concentrations as a starting point). These simulations were developed to predict future PCB concentrations to support relative comparisons of remedial options being evaluated as part of the FS; the historical hydrodynamic information used to project future conditions was only used as a means of estimating future flow and tide conditions at the Site (this makes the reasonable assumption that flows in the future will be statistically similar to those observed in the past).

The calibrated fate and transport model was used to simulate the following two general scenarios in support of the FS:

1. Monitored natural recovery (MNR). For this simulation, the calibrated model simulation that began in 2009 and ended at 2014 was continued for an additional 19 years, with no changes to model inputs. This simulation allowed for evaluation of the effects of ongoing sediment deposition, as well as the effects of a large flow event, on future surface sediment PCB concentrations to be evaluated. For this simulation, it was conservatively assumed that no further reductions in the distributed PCB source within the concrete-lined channel (i.e., beyond those observed between 2009 and 2014 based on the surface water data) would occur.

2. Remediation of Sediment Management Area (SMA)-1. Remediation of this area is being considered in the FS alternatives because it encompasses the region over which the distributed PCB load within the concrete-lined channel is observed. Simulation of active remediation in SMA-1 consisted of: 1) setting the distributed PCB load within the SMA footprint to zero (to simulate remediation of this source) after Year 5 (which corresponds to 2014); and 2) setting sediment concentrations in the model within the SMA-1 footprint to zero (Figure 4-1 shows the model grid cells corresponding to the SMA-1 footprint). It was assumed that remediation was completed instantaneously at the beginning of Year 6 of the simulation.

## 4.2 Results

This subsection presents the results from the fate and transport model long-term (24-year) simulations of the two scenarios described above. For comparison purposes, the water column and surface sediment total PCB concentrations predicted for these two scenarios are presented together on overlay plots.

Longitudinal profiles of annual average water column total PCB concentrations for each year of the 24-year simulation are shown in Figures 4-2a through 4-2x. Under MNR, water column concentrations at the upstream end of the Site do not change appreciably over time due to the distributed loading within the concrete-lined channel (i.e., SMA-1). As described in Section 3.2.1, the exact nature (and rate of attenuation) of this source is unknown; therefore, it was conservatively assumed for the purpose of this simulation that this source would not change over time.<sup>13</sup> However, water column concentrations in Patrick Bayou, downstream of the concrete-lined channel, are predicted to decrease over time for the MNR simulation due to decreasing surface sediment PCB concentrations resulting from ongoing sedimentation. For example, water column concentrations in Patrick Bayou near the confluence with the HSC (i.e., PB006) decrease from approximately 40 ng/L in Year 6 to approximately 35 ng/L by Year 15, at which point they reach equilibrium (i.e., there is no additional decrease in water column concentration after approximately Year 15). For the

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<sup>13</sup> Note that an empirical evaluation of time to achieve the PCB surface water RAO is provided in Appendix E, which is based on insights gained from the modeling and estimated rates of decline based on 2009/2011 and 2014 water column data.

simulation of remediation of SMA-1, water column concentrations at the upstream end of the Site decrease considerably (to levels consistent with those specified at the upstream boundary [approximately 5 ng/L]) in Year 6 in response to the simulated remediation. Water column concentrations under this scenario are predicted to increase with distance downstream due to ongoing sediment contributions, but are also predicted to decrease over time as surface sediment PCB concentrations are predicted to decrease as a result of ongoing sedimentation (consistent with the MNR simulation).

As described in Section 3.4 of the FS, one of the RAOs for the Site is to reduce PCB concentrations in surface water of Patrick Bayou to the background threshold value for PCBs in the HSC upstream of Patrick Bayou. The model results demonstrate that MNR alone is insufficient to achieve the PCB surface water RAO of 8.2 ng/L throughout Patrick Bayou by the end of the model simulation period (based on the assumption that the PCB source in the concrete channel would be unchanged from that estimated based on the 2014 data). PCB concentrations in water column are predicted to remain above the RAO throughout this simulation because of the distributed loading within the concrete-lined channel (see discussion above). By contrast, the simulation of remediation of SMA-1 (combined with MNR in the remainder of Patrick Bayou) results in model-predicted water column PCB concentrations that achieve the RAO throughout the Site within 6 years following remediation (note that the remediation is assumed to occur at the beginning of model Year 6, shown in Figure 4-2f).

Time-series of model-predicted surface sediment (top 4 inches) PCB concentrations for the two scenarios evaluated are presented in Figures 4-3 and 4-4. Specifically, Figure 4-3 presents the Site-wide average sediment concentrations, and Figure 4-4 shows spatial averages calculated every ten stations (i.e., 1,000 feet). Note that the first 5 years of the 24-year time series represents the 5 years simulated from 2009 to 2014 (described in Section 3.2.3). As shown in Figure 4-3, Site-wide average sediment concentrations under MNR decrease from approximately 8 to 9 mg/kg in Year 1 (corresponding to 2009) to approximately 0.6 mg/kg in Year 24. Site-wide average sediment concentrations are predicted to decline even further (to approximately 0.3 mg/kg) when simulating remediation of SMA-1. These predicted declines are largely driven by ongoing sedimentation in Patrick Bayou. Figure 4-4, which presents average sediment concentrations in 1,000-foot

intervals, illustrates that predicted rates of decline in surface sediment PCB concentrations are spatially variable. For example, sediment concentrations in several areas of the Site decrease relatively quickly, particularly in response to the upstream remediation (e.g., PB060 to PB050, PB020 to PB010), whereas some areas decrease more slowly (e.g., PB040 to PB030).

To quantify the model-predicted rates of decline in surface sediment PCB concentrations, first order (exponential) decay curves were fit through the 24-year model results for each of the various spatial scales shown in Figures 4-3 and 4-4. A summary of estimated half-lives for both scenarios (MNR and remediation of SMA-1) is provided in Table 4-1. The model-predicted rate of decline of total PCBs in surface sediments averaged over the entire Site corresponds to a half-life of 7 years under MNR alone, and decreases to 5 years when coupled with remediation of SMA-1. Half-lives over these 1,000-foot intervals range from 3 years (PB080-PB070) to 13 years (PB040-PB030) under MNR, and range from 2 years (PB080-PB070 and PB060-PB050) to 12 years (PB040-PB030) when coupled with remediation of SMA-1. These half-life values calculated based on model-predicted surface sediment PCB concentrations averaged every 1,000 feet were used to support the evaluation of benthic risk described in Section 4.1.2 of the FS.

**Table 4-1**  
**Summary of Model-predicted Sediment Half-lives**

Area	Half-life (years)	
	MNR	Remediate SMA-1
Site-wide	7	5
PB080 - PB070	3	2
PB070 - PB060	5	3
PB060 - PB050	5	2
PB050 - PB040	9	7
PB040 - PB030	13	12
PB030 - PB020	5	5
PB020 - PB010	6	3
PB010 - HSC	6	3

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## 5 MODEL UNCERTAINTY EVALUATION

Any model has some amount of uncertainty associated with its predictions. As such, it is often desirable to attempt to quantify the model uncertainty so that this can be factored into the model predictions of future conditions and any decisions that may be made based on the results. The following section describes the approach used to quantify the chemical fate and transport model uncertainty for Patrick Bayou, and the results of the analysis.

### 5.1 Approach and Setup

The effect of input uncertainty on the chemical fate model predictions was evaluated through a sensitivity analysis. To develop uncertainty bounds on the model predictions of the long-term future simulations, two bounding sediment transport simulations described in Section 3.3.2 of Anchor QEA (2011)<sup>14</sup> were propagated through the fate and transport model uncertainty simulations. Specifically, these two sediment transport simulations were combined with three bounding chemical fate and transport input parameters to which the model is most sensitive: 1) the surface porewater exchange coefficient ( $k_f$ ); 2) the partition coefficient ( $K_{oc}$ ); and 3) depth of mixing (i.e., bioturbation). The lower and upper bound limits of these parameters were specified by modifying the  $k_f$  term by  $\pm$  a factor of 2, modifying  $\log K_{oc}$  by  $\pm 10\%$ , and increasing the bioturbation depth from 10 cm (used in the model calibration) to 15 cm. The goal of these simulations was to produce upper bound and lower bound results to quantify the uncertainty range associated with the model's future predictions. Therefore, alternate values for each parameter were selected such that each produced a model response that varied in the same direction relative to the base calibration.<sup>15</sup> Because one of the key uses of the model is to quantify rates of natural recovery within the Site, the alternate parameters were all selected so that they would result in both a faster (upper bound) and slower (lower bound) rate of recovery. For example, for the lower bound uncertainty simulation, the surface porewater exchange coefficient was decreased (which decreases the flux of contaminant mass exiting the surface sediment layer) and the partition

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<sup>14</sup> The sediment transport model uncertainty analysis examined the effects of three inputs on model uncertainty: 1) external sediment load; 2) settling speed of the Class 1 (fine silt/clay) sediment; and 3) effective bed roughness (D90). Lower and upper bound limits of these three inputs were specified as  $\pm$  a factor of 2 with respect to the base-case simulation.

<sup>15</sup> The mixing depth was only varied for the lower bound (i.e., slower rate of recovery) uncertainty simulation.

coefficient was increased (which results in an increase in concentration on depositing particulate matter) and the depth of sediment mixing was increased to 15 cm to elicit a slower rate of recovery in the system.

## 5.2 Results

Figures 5-1 and 5-2 show longitudinal profiles of water column total PCB concentrations (base-case and upper and lower bound simulations) for each year of the MNR and SMA-1 remediation scenario simulations, respectively. These figures show that predicted water column concentrations for the uncertainty simulations under MNR (and pre-remediation of SMA-1) quickly converge to levels that are consistent with the base case. This is because water column concentrations are largely controlled by the loading entering the water column from upstream, and not the loading to the water column from the internal sediments (which is what would be affected by the model parameters that were adjusted for the uncertainty analysis). This can be seen in Figures 5-3 and 5-4, which show time-series of Site-wide average model-predicted surface sediment concentrations (base-case and upper and lower bound simulations) for the MNR and SMA-1 remediation scenario simulations, respectively. The changes made to model parameters for the uncertainty analysis result in relatively large differences in sediment concentrations between the base-case and upper and lower bound scenarios (while still decreasing) throughout the duration of the model simulation. As described in Section 4.2, model-predicted rate of decline of total PCBs in surface sediments averaged over the entire Site (base-case) corresponds to a half-life of 7 years under MNR alone, and decreases to 5 years when coupled with remediation of SMA-1. Consideration of model uncertainty only increases the half-life by less than 1 to nearly 2 years under both scenarios (Figures 5-3 and 5-4).

As described in Section 4.2, the base-case model results for the MNR simulation indicate that MNR alone is insufficient to achieve the PCB surface water RAO of 8.2 ng/L throughout Patrick Bayou by the end of the model simulation period. Consideration of uncertainty in the model's most sensitive parameters does not change this conclusion (Figure 5-1).

However, model uncertainty does increase the time in which the RAO is predicted to be met following remediation of SMA-1 (Figure 5-2); specifically, consideration of model



uncertainty increases the time to achieve the RAO throughout Patrick Bayou from 6 years following remediation to approximately 16 years.

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ATTACHMENT 1  
CHEMICAL FATE AND TRANSPORT  
MODEL THEORY AND FORMULATION

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## 1 INTRODUCTION

This attachment to Appendix A, *Chemical Fate and Transport Modeling Study*, provides background on the chemical fate and transport model. Section 1 includes a discussion of the model background, the overall framework, and its linkage to other models as well as the processes simulated by the model. The governing equations used to represent those processes are presented in Section 2 of this attachment, and cited references are provided in Section 3.

### 1.1 Model Background and History

Anchor QEA, LLC's chemical fate and transport model (referred to as AQFATE) simulates the fate and transport of chemical constituents in surface water and sediment bed systems. AQFATE includes a flexible framework for modeling different chemical and physical processes and is designed to accommodate multiple chemical constituents that are affected by a basic suite of physical and chemical processes represented in the model. The AQFATE model code is built into the Environmental Fluid Dynamics Code (EFDC) hydrodynamic model framework that includes sediment transport based on the SEDZLJ algorithm. The AQFATE model framework has a long development and application history<sup>1</sup> and has been successfully applied at a wide range of contaminated sediment sites across the United States. Recent examples include the following:

- Hudson River, New York (e.g., Connolly et al. 2000; QEA 2005; Anchor QEA 2010)
- Grasse River, New York (e.g., Alcoa 2012)
- Housatonic River, Connecticut (ARCADIS, Anchor QEA, and AECOM 2010)
- Neal's Landfill Site (Conard's Branch and Richland Creek), Indiana (QEA 2007; USEPA 2007)
- Portland Harbor/Lower Willamette River, Oregon (Anchor QEA 2012a)
- San Jacinto River, Texas (Anchor QEA 2012b)

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<sup>1</sup> AQFATE was developed by personnel at Quantitative Environmental Analysis, LLC (QEA; now Anchor QEA, LLC) in 1998 using the Water Quality Analysis Simulation for Toxics (WASTOX) model as a starting point. WASTOX was developed on behalf of U.S. Environmental Protection Agency (USEPA) in the 1980s (Connolly and Winfield 1984; Connolly and Thomann 1985); it also formed the basis for the widely used, USEPA-supported Water Quality Analysis Simulation Program (WASP) model (Wool et al. 2008). Since its development, the AQFATE code has been continually improved and updated by Anchor QEA (formerly QEA) personnel. In a USEPA evaluation of tools for modeling contaminated sediment sites, an earlier version of AQFATE received a favorable review (Imhoff et al. 2003).

## 1.2 Model Framework and Linkages

In order to predict chemical concentrations in the water column and sediments of a surface water system, AQFATE must be linked to hydrodynamic and sediment transport models. These models all perform dynamic simulations in which time-varying calculations are performed over generally long timescales. A brief description of these linkages is provided in the following:

- The hydrodynamic model predicts current velocities, water depths, dispersion coefficients (which represent turbulent mixing in the water column), and bottom shear stress over time. This information is passed to the sediment transport model as well as the chemical fate and transport model (with the exception of bottom shear stress).
- The sediment transport model uses the information from the hydrodynamic model to predict suspended sediment concentrations in the water column and fluxes of solids between the water column and bed resulting from deposition (settling) of particulate matter and erosion of bottom sediment over time. This information is passed to the chemical fate and transport model.
- The chemical fate and transport model (i.e., AQFATE) uses the information from the hydrodynamic and sediment transport models to predict concentrations of chemicals in the water column and the sediment bed, for both particulate and dissolved phases, over time.

Additional details on the model framework and linkages between the models are provided in Section 1 (and Figure 1-1) of Appendix A.

## 1.3 Model Processes

The chemical fate and transport model is based on the first principle of mass balance. The model framework consists of a set of general equations that describe the basic physical, chemical, and biological processes affecting chemical fate and transport within an aquatic system (i.e., both the water column and the sediment bed). Application of this general framework to a given site is accomplished by using site-specific data, literature, experience from modeling other systems, and professional judgment to specify values for the parameters



of the governing equations such that the model reproduces the trends in chemical concentrations within the system over relevant spatial and temporal scales.

The processes simulated by AQFATE are depicted on Figure 1-2 in Appendix A. Chemicals can enter the water column as loads from inflows or tidal exchange at the boundaries of the simulated area (i.e., boundary conditions), as well as from external loads that are represented as point sources (e.g., outfalls) or sources distributed over a larger area, such as atmospheric deposition over the water surface.<sup>2</sup> Processes simulated within the water column in the model include transport via advection and dispersion, partitioning between the particulate and dissolved phases, as well as to dissolved organic carbon (DOC) in certain cases, and degradation/transformation reactions (for certain chemicals/conditions). Chemicals in the water column can also be lost to the atmosphere via volatilization and exchanged with the underlying sediment bed via the processes of deposition and resuspension of sediments and associated particulate-phase chemicals, and by dissolved-phase exchange processes, which include diffusion, porewater exchange flux, and advective flow. The model also simulates the sediment bed, which communicates with the water column through the exchange processes listed above. Within the bed itself, the chemical fate and transport processes simulated include mixing (i.e., bioturbation) within the surficial sediments, vertical transport/exchange via diffusion, dispersion, and advection within the porewater phase, as well as partitioning and biodegradation/transformation (when applicable). In cases where the model is simulating a depositional environment, there is a net transfer of chemicals from the surficial layers to the deeper layers of the simulated bed (i.e., net sedimentation).

The processes described above and shown on Figure 1-2 (Appendix A) are combined together in mass balance computations for both the water column and the sediment bed, which because of the exchange processes between the two must be performed simultaneously. In simple terms, the mass balance is used to compute changes in chemical concentration of the water column and sediment bed over time by summing the various terms that represent losses or gains of chemical mass to each. These mass balance calculations are performed over

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<sup>2</sup> AQFATE has the ability to simulate inputs from external loads such as point sources and/or groundwater discharge, however there are no loads specified for these types of sources in the Patrick Bayou model. This attachment provides a general description of the capabilities of AQFATE; Appendix A describes the specific inputs and processes simulated in its application to Patrick Bayou.

all computational elements in AQFATE, which are defined by the numerical grid that is used to represent the simulated waterbody. Mechanistic representations of the chemical fate and transport processes are embodied in the model's governing equations, which are presented in the next section.

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## 2 CHEMICAL FATE AND TRANSPORT MODEL GOVERNING EQUATIONS

The governing equations for the processes represented in AQFATE are summarized in this section. First, the equations for mass balance in the water column and sediment bed are presented, followed by the equations that are used to describe partitioning and the exchange, transport, external source loadings, and transformation processes included in the general mass balance equations. Additional discussion and details of model theory can be found in Connolly and Winfield (1984), Chapra (1997), Connolly et al. (2000), and Anchor QEA (2010).

### 2.1 Water Column Mass Balance

The three-dimensional equation describing the conservation of mass for a chemical in the water column can be described by the following (Connolly and Winfield 1984):

$$\begin{aligned} \frac{\partial c_t}{\partial t} = & \frac{\partial}{\partial x} \left( E_x \frac{\partial c_t}{\partial x} \right) + \frac{\partial}{\partial y} \left( E_y \frac{\partial c_t}{\partial y} \right) + \frac{\partial}{\partial z} \left( E_z \frac{\partial c_t}{\partial z} \right) - \frac{\partial u_x c_t}{\partial x} - \\ & \frac{\partial u_y c_t}{\partial y} - \frac{\partial u_z c_t}{\partial z} \pm S_{wc/bed} + S_{ext} \pm S_{wc} \end{aligned} \quad \text{Equation 1}$$

where:

- $c_t$  = total water column concentration of chemical (M/L<sup>3</sup>), (particulate phase, freely dissolved phase, and DOC-bound phase)
- $t$  = time (T)
- $x, y, z$  = coordinate directions (i.e., longitudinal, lateral, and vertical distance [L])
- $E_x, E_y, E_z$  = longitudinal, lateral, and vertical dispersion coefficients, respectively (L<sup>2</sup>/T)
- $u_x, u_y, u_z$  = longitudinal, lateral, and vertical current velocity, respectively (L/T)
- $S_{wc/bed}$  = net mass exchange at the sediment/water interface (applies to the bottommost vertical grid cell in the water column)
- $S_{ext}$  = source term resulting from external loads (M/[L<sup>3</sup>T])
- $S_{wc}$  = source and sink terms resulting from kinetic reactions (M/[L<sup>3</sup>T])

The first six terms in this equation represent transport processes, which are discussed in Section 2.4.1. The seventh term represents the exchange flux that embodies the linkage between the water column and sediment bed mass balances, and is described in Section 2.5. The final two terms in this equation represent external source loads, and kinetic reactions and are discussed in Section 2.6.1.

## 2.2 Sediment Bed Mass Balance

The equation describing the conservation of mass within the sediment bed simulated in AQFATE it is given by the following equation:

$$\frac{\partial c_t}{\partial t} = \frac{\partial}{\partial z} \left( E_z \frac{\partial c_t}{\partial z} \right) + \frac{\partial}{\partial z} \left[ D_z \frac{\partial (c_d + c_{doc})}{\partial z} \right] - \frac{\partial u_{z,bed}(c_d + c_{doc})}{\partial z} \pm S_{wc/bed} + S_{gw} \pm S_{bed} \quad \text{Equation 2}$$

where:

- $c_t$  = total sediment concentration of chemical (M/L<sup>3</sup>), (particulate phase, freely dissolved phase, and DOC-bound phase)
- $z$  = coordinate direction (i.e., vertical distance within sediment bed [L])
- $E_z$  = vertical dispersion (mixing) coefficient (L<sup>2</sup>/T)
- $D_z$  = effective vertical porewater diffusion coefficient (L<sup>2</sup>/T)
- $c_d$  = freely dissolved phase concentration of chemical (M/L<sup>3</sup>)
- $c_{doc}$  = DOC-sorbed phase concentration of chemical (M/L<sup>3</sup>)
- $u_{z,bed}$  = vertical advective velocity in porewater (L/T)
- $S_{wc/bed}$  = net mass exchange at the sediment/water interface (applies to the uppermost layer of the simulated sediment bed)
- $S_{gw}$  = external source term associated with loads from groundwater (M/[L<sup>3</sup>T]; applies to the bottommost layer of the simulated sediment)
- $S_{bed}$  = source/sink terms resulting from kinetic reactions in the bed (M/[L<sup>3</sup>T])

Equation 2 is solved only in the vertical dimension, and is similar to that used to describe chemical fate and transport in a groundwater system (e.g., Domenico and Schwartz 1990) except that additional terms are included to represent bioturbation and exchange with the water column (e.g., Boudreau 1997).

The first three terms in the above equation represent transport processes within the sediment bed, which are discussed in Section 2.4.2. The fourth term represents the exchanges between the water column and sediment bed, which is described in Section 2.5. The final two terms in the above equation represent external loading (via deep groundwater, if applicable to a particular site) and kinetic reactions within the bed and are discussed in Section 2.6.2.

## 2.3 Partitioning

AQFATE uses partitioning relationships to calculate the concentrations of chemicals in three separate phases (particulate phase, freely dissolved phase, and DOC-bound phase<sup>3</sup>) that together comprise the total concentration referenced in the above mass balance equations (water column or sediment bed), as shown in Equation 3:

$$c_t = c_p + c_d + c_{doc} \quad \text{Equation 3}$$

where:

$c_p$  = concentration of chemical adsorbed to particulate matter, expressed on a volumetric basis (M/L<sup>3</sup>)

Some terms in the model express the particulate-phase concentration on a mass of chemical per mass of dry solids basis rather than on a volumetric basis; this is accomplished by the following equation:

$$r = \frac{c_p}{m_s} \quad \text{Equation 4}$$

where:

$r$  = concentration of chemical adsorbed to particulate matter, expressed on a mass per unit mass basis (M/M)

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<sup>3</sup> It should be noted that in certain cases (e.g., for some metals and less hydrophobic organics), the dissolved organic carbon-bound phase may not be represented in the model.

$m_s$  = concentration of solids (M/L<sup>3</sup>), which is equal to the suspended solids concentration in the water column and the dry bulk density in the sediment bed

As discussed in the Sediment Transport Modeling Report (Anchor QEA 2011), the sediment transport model simulates solids in multiple classes to represent differences in the transport characteristics of fine (i.e., silts and clays) versus coarse (i.e., sands and gravels) sediments, as well as differences in organic carbon content. Therefore, the model's partitioning formulations compute chemical concentrations separately for each of these classes of solids based on the above equations (i.e., using the individual concentrations of solids for each solids class computed by the sediment transport model).

It is often useful to express the individual phase concentrations in terms of their respective fractions of the total, as follows:

$$c_p = f_p c_t ; c_d = f_d c_t ; c_{doc} = f_{doc} c_t \quad \text{Equation 5}$$

where:

$f_p, f_d, f_{doc}$  = fraction in the particulate, freely dissolved, and DOC-bound phases, respectively

The chemical fate and transport model uses the principles of linear equilibrium sorption to represent the relationships between the various phases. For the particulate phase, equilibrium sorption is represented by (e.g., Karickhoff 1984; Chapra 1997):

$$r = K_d c_d \quad \text{Equation 6}$$

where:

$K_d$  = the distribution or partition coefficient of the chemical (L<sup>3</sup>/M)

For hydrophobic organic chemicals, sorption is usually controlled by the organic carbon content of the solids and the chemical's organic carbon partition coefficient (e.g., Karickhoff 1984; Chapra 1997):

$$K_d = f_{oc} K_{oc} \quad \text{Equation 7}$$

where:

$f_{oc}$  = the fraction of organic carbon of the suspended solids or sediment

$K_{oc}$  = organic carbon partition coefficient of the chemical (L<sup>3</sup>/M)

Similar to particulate organic carbon, partitioning to DOC is described by the chemical's partition coefficient between the DOC-bound and freely dissolved phases:

$$K_{doc} = \frac{c_{doc}/m_{doc}}{c_d} \quad \text{Equation 8}$$

where:

$K_{doc}$  = DOC partition coefficient (L<sup>3</sup>/M)

$m_{doc}$  = concentration of DOC in the water column or porewater (M/L<sup>3</sup>)

Using the above equations, the equations representing the fractions in the particulate, dissolved, and DOC-bound phases are as follows:

$$f_p = \frac{K_d m_s}{\phi + K_d m_s + K_{doc} m_{doc}} \quad \text{Equation 9}$$

$$f_d = \frac{\phi}{\phi + K_d m_s + K_{doc} m_{doc}} \quad \text{Equation 10}$$

$$f_{doc} = \frac{K_{doc} m_{doc}}{\phi + K_d m_s + K_{doc} m_{doc}} \quad \text{Equation 11}$$

where:

$\phi$  = volume fraction of water (= 1 for water column and = porosity within the sediment bed)

When the sediment transport model simulates multiple classes of solids, as is the case for Patrick Bayou, the  $K_d$  and  $m_s$  terms in Equations 9 through 11 are repeated for each class of solids because these terms can vary by class (due to differing solids concentration and/or differing partition coefficient due to differences in organic carbon content as per Equation 7). For example, the fraction of chemical in the particulate phase of a given solids class is represented by the following:

$$f_{p,i} = \frac{K_{d,i} m_{s,i}}{\phi + \sum_{i=1}^n K_{d,i} m_{s,i} + K_{doc} m_{doc}} \quad \text{Equation 12}$$

where:

- $i$  = index referring to an individual class of solids simulated by the sediment transport model
- $n$  = total number of solids classes simulated by the sediment transport model

The chemical mass calculated for each individual solids class is also summed in the model to allow for aggregation into the total particulate-phase concentration.

## 2.4 Mass Transport Processes

The terms in the general mass balance equations that describe the movement or transport of chemicals within the water column and within the sediment bed (i.e., Equations 1 and 2, respectively) are discussed in the following two subsections.

### 2.4.1 Water Column

The first three terms in the water column mass balance (Equation 1) represent transport by longitudinal, lateral, and vertical dispersion in the water column, respectively, which results from turbulent mixing processes. The next three terms in Equation 1 represent transport by advection, or movement of the chemicals with flow of water. In the model, the dispersion coefficients and current velocities that describe these processes are predicted by the hydrodynamic model.



## 2.4.2 Sediment Bed

The first term in the sediment bed mass balance equation (Equation 2) represents mixing by bioturbation, which is based on the typical approach of representing it as a vertical dispersion process (e.g., Boudreau 1997; Lampert and Reible 2009). This mixing is applied to all phases of chemicals in the model, although for sorptive compounds, the particulate-phase dispersive flux accounts for the vast majority of the mass transport associated with this process. Bioturbation is usually specified in the model to occur over the upper layers of the simulated sediment bed, which are the layers that correspond to the “active layer” or the depth of biological mixing at a site. This process can also be used to represent other non-biological mixing processes that occur at some sites, as long as they can be represented as a dispersion process.

The second term in Equation 2 represents diffusive transport of chemical in the sediment porewater, which acts on the freely dissolved and DOC-bound phases. The effective diffusion coefficient includes the combined effects of molecular diffusion, which is adjusted for the tortuosity effects of a porous medium (e.g., Shen and Chen 2007), and dispersion, which accounts for small-scale velocity variations associated with flow in a porous medium (e.g., Domenico and Schwartz 1990):

$$D_z = D_m \tau + \alpha \frac{u_{z,bed}}{\phi} \quad \text{Equation 13}$$

where:

- $D_m$  = molecular diffusion coefficient of the chemical in water (L<sup>2</sup>/T)
- $\tau$  = tortuosity factor (unitless)
- $\alpha$  = dispersivity (L), which is taken to be a scale-dependent coefficient (e.g., Gelhar et al. 1992)

The third transport term in the bed mass balance (Equation 2) represents the advection of porewater (i.e., driven by groundwater flow) within the sediments, which acts upon the mobile phase of chemical (i.e., the freely dissolved plus DOC-bound). This process is characterized by an advective volumetric flux (i.e., Darcy velocity), which is a model input for the chemical fate and transport model.

## 2.5 Sediment/Water Column Exchange Processes

The sediment and water column mass balance equations (i.e., Equations 1 and 2, respectively) are linked by the net mass exchange at the sediment/water interface. This net exchange is calculated in the model by summing the chemical fluxes calculated for the following individual exchange processes: sediment deposition, sediment resuspension, porewater exchange, and porewater advection. For the water column mass balance, the net mass exchange is calculated as follows:

$$S_{wc/bed} = \frac{A_s}{V} (R r_{bed} - D r_{wc} + k_f [(c_d + c_{doc})_{bed} - (c_d + c_{doc})_{wc}]) + u_{z,bed} (c_d + c_{doc})_{bed} \quad \text{Equation 14}$$

where:

- $A_s$  = surface area of sediment/water interface (L<sup>2</sup>), which is the area of a computational grid cell in the model's calculation
- $V$  = volume (L<sup>3</sup>) of the bottom layer of the water column (when used in Equation 1) or surface layer of the sediment bed (when used in Equation 2)
- $R$  = resuspension (erosion) flux of sediment (M/[L<sup>2</sup>T])
- $D$  = deposition (settling) flux of sediment (M/[L<sup>2</sup>T])
- $_{wc, bed}$  = subscripts referring to chemical concentrations in the bottom layer of the water column and surface layer of the sediment bed, respectively
- $k_f$  = porewater exchange coefficient (L/T)

For the sediment bed mass balance, the net exchange is based on the same calculation, except the sign of the calculated value is reversed (i.e., a net negative flux for the water column mass balance, which would be a chemical loss term, is a net positive flux, or a chemical gain, for the sediment bed mass balance) and the volume term differs between the two compartments as noted above.

The first two terms in Equation 14 represent the transfer of chemical between the water column and sediment bed associated with sediment resuspension and deposition, respectively. Both of these chemical fluxes are calculated based on the flux of solids that is

calculated by the sediment transport model multiplied by the particulate-phase chemical concentration expressed on a per unit mass of solids basis. The chemical flux from resuspension, which results in a transfer of mass from the bed to the water column, is calculated as the flux of solids times the concentration of chemical on the surface layer bed solids. Likewise, the chemical flux from deposition, which results in a transfer of mass from the water column to the bed, is calculated as the flux of solids times the concentration of chemical on water column solids. As discussed previously, the sediment transport model simulates solids as multiple classes, which results in separate deposition and erosion fluxes for each class. Therefore, the first two terms in Equation 14 are calculated for each simulated solids class (i.e., the solids flux of the given solids class times the particulate-phase chemical concentration of that solids class), and these fluxes are aggregated in computing the total mass transfer at the sediment-water interface.

The third term in Equation 14 represents exchange of dissolved-phase chemical between the surface sediment porewater and the overlying water column. This exchange is represented as a diffusion process, with a mass transfer coefficient multiplied by the concentration difference between the surface layer porewater and the water column (for both freely dissolved and DOC-bound phases). This term is used in the model to represent the net effect of multiple processes acting in unison, all of which result in a dissolved-phase mass transfer at the sediment-water interface; these processes include diffusion, bioturbation, gas ebullition, and micro-scale propagation of turbulence<sup>4</sup>. Indeed, data from several contaminated sediment sites indicate that observed porewater mass transfer coefficients are typically much greater than those which would be expected from diffusion alone (e.g., Thibodeaux and Bierman 2003). As such, the porewater mass transfer coefficient is typically taken to be a site-specific parameter (e.g., USEPA 2000, 2006; Anchor QEA 2010; Alcoa 2012). Research has shown that within a given site, the mass transfer coefficient can vary as a function of the chemical's partition coefficient, with the mass transfer coefficient increasing with increasing  $K_d$  or  $K_{oc}$ . Based on such information, the porewater exchange process has been conceptualized to be driven by mass transport processes within a benthic boundary layer that consists of two components: a sediment side, which is influenced by

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<sup>4</sup> In addition, exchange fluxes associated with tidal pumping, if applicable, can also be represented by this process (e.g., La Licata et al. 2011).

sorption and particle mixing, and a water side, which is influenced by propagation of turbulence (e.g., Thibodeaux et al. 2001).

The last term in Equation 14 represents dissolved-phase advective flux, which is associated with vertical flow of porewater. This flux can result in mass transport from the sediment to the water column, or vice versa, depending on the direction of flow (i.e., upwelling or downwelling).

## 2.6 Source/Sink Terms

The last terms in the sediment and water column mass balance equations (i.e., Equations 1 and 2, respectively) represent changes in chemical mass resulting from external source/sink and reaction terms. The terms represented in each of these portions of the model are described in the following two subsections.

### 2.6.1 Water Column

#### 2.6.1.1 External Loadings

Sources of chemicals to the water column can include processes such as point sources (i.e., discharges from outfalls), surface runoff, atmospheric deposition, and groundwater flowing into the surface water through the banks of the waterbody. Such processes are incorporated directly into the model's water column mass balance (i.e., Equation 1) through specification of the associated chemical mass loading as follows:

$$S_{ext} = \frac{W}{V} \quad \text{Equation 15}$$

where:

$W$  = external chemical mass loading entering a computational grid cell  
(M/T)

In cases where the volumetric flow of water associated with the external load is explicitly represented in the hydrodynamic model, the mass loading is represented in AQFATE by specifying a chemical concentration associated with the flow rate.

### 2.6.1.2 Kinetic Reactions

AQFATE includes a generalized kinetics algorithm, capable of simulating any order chemical reaction, for the purposes of simulating loss (or gain) of chemical by transformation or degradation processes. The most common approach is to use the kinetics framework to represent degradation processes (for applicable chemicals) as a first order decay process:

$$S_{wc,decay} = -kC_t \quad \text{Equation 16}$$

where:

$$\begin{aligned} S_{wc,decay} &= \text{degradation sink term in water column (M/[L}^3\text{T])} \\ k &= \text{first order reaction coefficient (T}^{-1}\text{)} \end{aligned}$$

However, as noted above, other order reactions can be represented in the model.

### 2.6.1.3 Volatilization

The other water column kinetic reaction typically simulated by the model for organic chemicals is volatilization, through which dissolved-phase chemicals are exchanged with the atmosphere. The flux at the air-water interface is calculated by the following:

$$S_v = \frac{k_L}{h_{wc}} \left( c_d - \frac{c_{air}}{H} \right) \quad \text{Equation 17}$$

where:

$$\begin{aligned} S_v &= \text{volatilization mass transfer at the air-water interface (M/[L}^3\text{T])} \\ k_L &= \text{volatilization mass transfer coefficient (L/T)} \\ c_{air} &= \text{concentration of the chemical in air (M/L}^3\text{)} \\ H &= \text{dimensionless Henry's Law Constant (HLC) of the chemical (unitless)} \end{aligned}$$

The above equation simulates the chemical flux at the air-water interface based on a mass transfer coefficient, the total water depth ( $h_{wc}$ , which is predicted by the hydrodynamic model), and the concentration gradient between the dissolved phase in the upper layer of the water column and the air phase. The volatilization flux also depends on the dimensionless

HLC, which is a fundamental property of the chemical that represents its equilibrium activities in the air and water phases. HLCs are typically reported in units of partial pressure per unit aqueous concentration; therefore, the model calculates the dimensionless form by dividing the input value by the product of the universal gas constant and the water temperature (thus converting pressure into concentration using the ideal gas law), as follows:

$$H = \frac{HLC}{R T_{abs}} \quad \text{Equation 18}$$

where:

$$\begin{aligned} HLC &= \text{Henry's Law Constant (E/mol)} \\ R &= \text{Universal Gas Constant (L/T)} \\ T_{abs} &= \text{Absolute water temperature} \end{aligned}$$

Apart from the HLC, the key parameter in describing volatilization is the mass transfer coefficient. The model calculates the volatilization mass transfer coefficient based on the classic two-film theory of Lewis and Whitman (1924), which conceptualizes the mass transfer at the air-water interface to be controlled by two thin layers—a liquid film and a gas film. The overall volatilization mass transfer coefficient is calculated based on mass transfer coefficients in each of these films (O'Connor 1983, 1984):

$$k_L = \frac{k_g k_l}{k_g + \frac{k_l}{H}} \quad \text{Equation 19}$$

where:

$$\begin{aligned} k_g &= \text{gas film mass transfer coefficient (L/T)} \\ k_l &= \text{liquid film mass transfer coefficient (L/T)} \end{aligned}$$

The gas film mass transfer coefficient is calculated by AQFATE using the following empirical relationship from Mackay and Yeun (1983):

$$k_g = \frac{0.0462 U^*}{Sc_a} \quad \text{Equation 20}$$

where:

$U^*$  = the friction velocity of the moving air (L/T; meters per second [m/s]),  
given by:

$$U^* = U_{10}(6.1 + 0.63U_{10})^{0.5} * 10^{-2} \quad \text{Equation 21}$$

where:

$U_{10}$  = the wind speed measured 10 meters above the water surface (L/T; m/s)  
 $Sc_a$  = Schmidt Number of the chemical in air, which represents the ratio of  
its kinematic viscosity in air (which is calculated by the model as a  
function of temperature) to its diffusivity

The model uses two formulations to calculate the liquid film mass transfer coefficient, and then applies the larger of the two. The first formulation, which accounts for flowing conditions, relates the mass transfer coefficient to the current velocity of the surface water (O'Connor and Dobbins 1958), as follows:

$$k_l = \sqrt{\frac{D_m U}{h_{wc}}} \quad \text{Equation 22}$$

where:

$U$  = total current velocity of the water (L/T) calculated by the  
hydrodynamic model

The second formulation applied by the chemical fate and transport model to calculate the liquid film mass transfer coefficient, which is more applicable for quiescent flow conditions, relates the mass transfer to the shearing action of winds at the water surface based on the empirical formulation of Mackay and Yeun (1983):

$$k_l = \frac{0.0144 (U^*)^{0.22}}{\sqrt{Sc_w}} \quad ; \quad U^* < 0.3 \quad \text{Equation 23}$$

$$k_l = \frac{0.0341 U^*}{\sqrt{Sc_w}} \quad ; \quad U^* > 0.3 \quad \text{Equation 24}$$

where:

$Sc_w$  = Schmidt Number of the chemical in water, which represents the ratio of its kinematic viscosity in water (which is calculated by the model as a function of water temperature) to its diffusivity

Finally, the overall volatilization mass transfer coefficient calculated using Equations 19 through 24 is corrected for temperature effects in the model using the standard Arrhenius Equation (e.g., Chapra 1997):

$$k_{L,T} = k_{L,T_{ref}} \theta_v^{T-T_{ref}} \quad \text{Equation 25}$$

where:

$T$  = water temperature

$T_{ref}$  = reference temperature (usually taken to be 20 degrees Celsius)

$\theta_v$  = volatilization temperature correction factor (unitless)

## 2.6.2 Sediment Bed

Similar to the water column, the model is capable of simulating external loadings and reactions in the sediment bed.

### 2.6.2.1 External Loadings

As noted in Equation 2, the model can simulate chemical loads entering the bottom of the sediment bed, which may be used to represent the case of chemical flowing into the sediments from deep groundwater. (Such loadings were not included in the model's application to Patrick Bayou.) The loading term in the model is calculated based on the product of Darcy velocity and concentration of the groundwater, as follows:

$$S_{gw} = \frac{u_{z,bed} c_{gw}}{v} \quad \text{Equation 26}$$



where:

$C_{gw}$  = concentration of chemical in groundwater flowing up into the simulated sediment bed (M/L<sup>3</sup>)

### 2.6.2.2 *Kinetic Reactions*

Kinetic reactions within the sediment bed are simulated in the model similar to those in the water column, as discussed in Section 2.6.1.2. The most commonly represented process is degradation (for applicable chemicals), which is simulated in the sediment bed in the same manner as for the water column, as described above (Section 2.6.1.2 and Equation 16).

When used to simulate biodegradation, the first order rate coefficients are typically varied in the modeled sediment vertically to represent differences in this process between aerobic and anaerobic zones of the bed.

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# APPENDIX B

## PRELIMINARY CAPPING ASSESSMENT

### PATRICK BAYOU SUPERFUND SITE

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**Prepared for**

Patrick Bayou Joint Defense Group

U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC

614 Magnolia Avenue

Ocean Springs, Mississippi 39564

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## TABLE OF CONTENTS

1	INTRODUCTION .....	1
2	CHEMICAL ISOLATION ANALYSIS .....	3
2.1	Approach .....	3
2.2	Model Inputs .....	4
2.2.1	Underlying Porewater Concentrations .....	4
2.2.2	Groundwater Velocity .....	5
2.2.3	RCM Sorption .....	6
2.3	Model Results .....	10
3	EROSION PROTECTION ANALYSIS .....	11
3.1	Hydrodynamic Modeling.....	12
3.2	Stable Particle Size Calculation .....	12
3.3	Armor Layer Thickness.....	14
3.4	Bridge Replacement .....	15
4	REFERENCES .....	17

### List of Tables

Table B-1	Initial Porewater Concentration with Depth.....	5
Table B-2	Input Parameter Values for the Chemical Isolation Cap Model.....	8
Table B-3	Sediment Cap Armor Stone D <sub>50</sub> SMA (inches).....	14
Table B-4	Sediment Cap Minimum Armor Layer Thickness by SMA (inches) .....	14

### List of Figures

Figure B-1	Model Domain and Cap Configuration
Figure B-2	Spatial Distribution of Maximum Depth-Averaged Velocities During the 2-Year Flow Event
Figure B-3	Spatial Distribution of Maximum Depth-Averaged Velocities During the 10- Year Flow Event

Figure B-4 Spatial Distribution of Maximum Depth-Averaged Velocities During the 100-Year Flow Event

Figure B-5 Computed Armor Stone  $D_{50}$  for the 2-Year Flow Event

Figure B-6 Computed Armor Stone  $D_{50}$  for the 10-Year Flow Event

Figure B-7 Computed Armor Stone  $D_{50}$  for the 100-Year Flow Event

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## LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
ACBM	articulated concrete block mat
cfs	cubic feet per second
cm	centimeters
cm/yr	centimeters per year
COC	chemical of concern
EFDC	Environmental Fluid Dynamics Code
FS	Feasibility Study
GAC	Granular Activated Carbon
n.d.	no date
PCB	polychlorinated biphenyl
RATS	Patrick Bayou Remedial Alternatives Technology Screening
RCM	reactive core mat
RI	Remedial Investigation
SMA	Sediment Management Area
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency



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## 1 INTRODUCTION

This appendix describes preliminary analyses to assess the feasibility of in situ containment (i.e., capping) to chemically and physically isolate and stabilize potentially contaminated sediment located within Patrick Bayou. These analyses were performed in accordance with U.S. Environmental Protection Agency's (USEPA's) *Guidance for In-Situ Subaqueous Capping of Contaminated Sediments* (Palermo et al. 1998), based on consideration of the following five components:

- Chemical isolation of contaminants
- Bioturbation
- Consolidation
- Erosion
- Operational considerations (e.g., placement inaccuracies, geotechnical filtering)

Oftentimes, caps are constructed of multiple layers that provide the above functions, although not every component adds to the total cap thickness. For example, as noted in Palermo et al. (2002), the erosion and bioturbation components may be a combined thickness, not requiring independent analysis if it is assumed that the erosion protection layer can resist erosion as well as accommodate bioturbation. In addition, the chemical isolation component, which is evaluated through contaminant transport modeling, explicitly accounts for bioturbation and may also include consolidation processes.

As described in the *Remedial Alternatives Technology Screening* report (RATS) (Anchor QEA 2013a), aggregate caps and articulated concrete block mat (ACBM) caps are two applicable methods of containment. Aggregate caps typically consist of a base layer for chemical isolation (typically sand-sized materials, amended with organic or sorptive material as needed), and, as necessary, a filter and/or armor stone surface layer. The surface armor layer consisting of larger-sized rock prevents erosion of the chemical isolation layer during high flow events. A multi-layered cap consisting of chemical isolation, filter, and armor layers can be on the order of 2 or more feet thick, which can reduce the capacity of the channel to convey flood flows during storm events. To maintain flood flow conveyance capacity when using an aggregate cap, excavation of the channel bed may be necessary prior to cap construction. Where such thick caps are necessary, the required excavation to

accommodate the cap may be such that the entire depth of contaminated sediment would be removed merely to accommodate the cap, thus precluding the need for post-excavation capping.

Because of the low profile of the ACBM cap (on the order of 4 to 8 inches thick), excavation prior to ACBM placement is not assumed necessary for maintaining channel flood flow conveyance capacity. This advantage, as well as the fact that ACBM can often be placed in areas with limited equipment access, means that ACBM is an ideal choice for channels with limited flood flow conveyance capacity and/or access constraints, both of which are issues for Patrick Bayou. Furthermore, ACBM can provide erosion control for relatively thin chemical isolation layers, such as reactive core mats (RCMs), thereby providing the multiple functions of a cap while maintaining a low profile.

This appendix focuses on the chemical isolation and erosion protection components of the cap and preliminarily addresses the other thickness components. Additional cap design analysis would be performed as part of the remedial design if capping is selected as part of the remedy for Patrick Bayou through the Feasibility Study (FS).

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## 2 CHEMICAL ISOLATION ANALYSIS

Preliminary modeling analyses were conducted to assess the feasibility of in situ containment (i.e., capping) to chemically isolate potentially contaminated sediment located within the portions of Patrick Bayou identified for evaluation as part of this FS. These analyses were performed in accordance with the U.S. Environmental Protection Agency's (USEPA's) *Guidance for In-Situ Subaqueous Capping of Contaminated Sediments* (Palermo et al. 1998) and other technical guidance documents referenced where appropriate. The primary goal of this modeling was to simulate the transport of polychlorinated biphenyls (PCBs) within the chemical isolation component of a sediment cap and to use the model to evaluate the long-term effectiveness of the cap in reducing porewater PCB concentrations within the biologically active zone, thereby reducing potential exposure to benthic organisms and flux to the surface water.

### 2.1 Approach

The one-dimensional model of chemical transport within sediment caps developed by Dr. Danny Reible was used for this evaluation (Reible 2012; Lampert and Reible 2009; Go et al. 2009). This model simulates the time-variable fate and transport of chemicals (dissolved and sorbed phases) under the processes of advection, diffusion/dispersion, biodegradation, bioturbation/bioirrigation, and exchange with the overlying surface water. This model has been used to support the evaluation and design of sediment caps at numerous sites around the United States. Details on the model structure and underlying theory and equations are provided in Lampert and Reible (2009), Go et al. (2009), and the USEPA/USACE capping guidance (Palermo et al. 1998).

A schematic of the cap profile represented in the model is shown on Figure B-1. As discussed in Section 4 of the main FS, the conceptual cap design being evaluated in this FS consists of a RCM overlain by ACBM. The RCM provides chemical isolation through adsorption, while the ACBM provides physical stability/armor protection (see Section 3). The RCM is relatively thin (CETCO 2012), and was simulated in the model as 1-cm thick adsorptive layer. The ACBM product is offered in various thicknesses typically ranging from 4 to 8 inches; for purposes of the FS, an ACBM thickness of 4 inches has been assumed. While this material is 4 inches at its thickest point, thinner areas are present between blocks.

These thinner areas are expected to fill in with material depositing over time. Therefore, this portion of the cap was represented in the model as a 10 cm granular layer, where bioturbation occurs (termed the bioturbation zone). This approach is conservative, because the ACBM will largely prevent any bioturbation from occurring; only the depressions of the ACBM, where material deposits, would be subject to bioturbation. The model was used to evaluate the ability of a cap to reduce surface porewater PCB concentrations over a long timeframe, which was taken to be 100 years for this evaluation. The chemical isolation layer modeling was conducted to evaluate cap effectiveness for the Sediment Management Areas (SMAs) within the Bayou being evaluated in this FS (see Section 4 and Figure 4-1 of main FS).

## **2.2 Model Inputs**

The model uses several input parameters that describe site-specific conditions, chemical-specific properties, cap material properties, and chemical mass transport rates. These input parameters were based on site-specific data, information from literature, and experience with cap design at other sites. Many of these input parameters are also used in the chemical fate and transport model that was developed and calibrated for the site (see Appendix A); in these cases, the values used in the cap evaluation modeling are the same as those used in the chemical fate and transport model.

### **2.2.1 Underlying Porewater Concentrations**

As part of the remedial investigation (RI), porewater samples were collected from the Site at 10 locations; these data provided information to assess partitioning within the sediments, but were not intended to provide detailed spatial coverage across the Site, nor were they without limitations (e.g., it is likely that the centrifugation method used to extract porewater did not fully separate the particulate and dissolved phases; see Appendix A). Therefore, porewater concentrations used in this cap modeling evaluation were specified based on values calculated by the chemical fate and transport model described in Appendix A.<sup>1</sup> As a conservative approach, the average value calculated by the fate and transport model from the

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<sup>1</sup> Porewater concentrations calculated by the fate and transport model are based on detailed site-wide mapping of sediment total organic carbon and PCB data and site-specific partition coefficients developed from the porewater data, after correcting for particulate matter (see Appendix A for details).

area having the highest predicted porewater concentrations within the Site (near sediment management area [SMA] 4 [SMA-4]), were used for this analysis.<sup>2</sup> Porewater concentrations in the chemical fate and transport model represent the upper 30 cm of sediment (see Appendix A), whereas the cap modeling effort simulates 1 meter of sediment based on interpretation of vertical profiles of PCB concentrations within sediment cores collected from Patrick Bayou that indicate an increase in concentrations to a depth of approximately 1 meter (Figure 4-6 of RI report; Anchor QEA 2013b). Thus, porewater concentrations predicted by the chemical fate and transport model, were used to estimate concentrations down to a 1 meter thickness. The model also conservatively assumes an infinite source of contaminated porewater at the bottom of the simulated 1 meter sediment column. Table B-1 presents the porewater PCB concentrations used in the cap model for various depth intervals of sediment beneath the simulated cap.

**Table B-1**  
**Initial Porewater Concentration with Depth**

Depth (cm)	Total PCB ( $\mu\text{g/L}$ )
0-10	12.0
10-30	62.5
30-100	188

### **2.2.2 Groundwater Velocity**

The groundwater (Darcy) velocity used in the cap model evaluation was estimated based on hydraulic conductivity and hydraulic gradient measurements from the Deer Park Lubrizol facility. Darcy velocities calculated from these data were generally within the range of 10 cm/yr to 100 cm/yr. However, upward groundwater flow through sediments is dictated by vertical hydraulic conductivity and hydraulic gradients; recognizing that the upland measurements represent horizontal hydraulic gradients (based on differences in head between wells) and horizontal hydraulic conductivity (based on slug tests and pumping tests), the calculated Darcy velocity range noted above is likely higher than the actual

<sup>2</sup> The chemical fate model indicates that the PCB flux associated with SMA-1 is the greatest within the Site (see Appendix A); however, because the exact nature of the source of PCBs in SMA-1 is currently not well understood from a mechanistic standpoint, the chemical-isolation modeling was not applied to this area.

vertical velocities within the sediment. Horizontal hydraulic conductivity is at least a factor of 5 to 10 higher than vertical hydraulic conductivity (Spitz and Moreno 1996); therefore, the vertical Darcy velocity within the sediments could be 10 times less than the range calculated. To address uncertainties in groundwater velocity based on these upland data, a range of values was simulated in the capping model, including 0 centimeters per year (cm/yr; i.e., no seepage), 1 cm/yr, 10 cm/yr and 100 cm/yr.

### 2.2.3 RCM Sorption

The reactive core mat simulated in this analysis is based on the properties of a CETCO® Reactive Core Mat™ with a Granular Activated Carbon (GAC) Core. This RCM includes GAC at a dose of 0.4 lb/ft<sup>2</sup>. To represent this RCM in the model, the porosity and particle density values were specified to result in a mass per unit area of active material within the 1-cm thick simulated layer of 0.4 lb/ft<sup>2</sup>, as shown in Equations B-1 and B-2.

$$D_{GAC} = \rho_b \cdot t \quad (B-1)$$

$$\rho_b = \rho \cdot (1 - \phi) \quad (B-2)$$

where:

$D_{GAC}$	=	GAC Dose (M/L <sup>2</sup> )
$\rho_b$	=	dry bulk density (M/L <sup>3</sup> )
$t$	=	thickness (L)
$\rho$	=	particle density (M/L <sup>3</sup> )
$\phi$	=	porosity

Setting porosity of the RCM to a typical value of 0.4, thickness to a representative value of 1 cm, and GAC dose to 0.4 lb/ft<sup>2</sup>, the resulting particle density used in the model for the RCM was calculated as 0.33 g/cm<sup>3</sup>.

Research has shown that adsorption of PCBs onto GAC is non-linear, and typically can be described by a Freundlich isotherm (McDonough et. al. 2008). Therefore, the sorption properties of the GAC RCM were specified based on Freundlich isotherm coefficients (Kf and

1/n) for a Tri-PCB homolog (McDonough et. al. 2008), which is representative of the PCB composition at the site.

#### Input Parameter Summary

A listing of input parameter values used for this preliminary modeling evaluation, and the source(s) from which they were derived is provided in Table B-2.

**Table B-2**  
**Input Parameter Values for the Chemical Isolation Cap Model**

Model Input Parameter	Value	Data Source
<b>Chemical-specific Properties</b>		
Organic carbon partition coefficient, log $K_{oc}$ (log L/kg)	5.3	Based on values used in the fate and transport model for PCB <sub>1-9</sub> homolog groups (Appendix A). Value is applied in the model to simulate 1-m of underlying sediment and bioturbation zone.
Log $K_f$ (ng/kg) (L/ng) <sup>1/n</sup>	8.0	Freundlich isotherm coefficient for adsorption of PCBs onto GAC. Value represents Tri-PCB homolog (McDonough et al. 2008)
1/n	0.7	Freundlich isotherm coefficient for adsorption of PCBs onto GAC. Value representing Tri-PCB homolog (McDonough et al. 2008)
Water diffusivity (cm <sup>2</sup> /s)	2E-06	Based on values used in the fate and transport model for PCB <sub>1-9</sub> homolog groups (Appendix A)
Chemical biodegradation rate (yr <sup>-1</sup> )	0	No degradation, consistent with fate and transport model inputs (Appendix A).
Underlying porewater concentration (µg/L)	See Table B-1	Porewater concentrations predicted at the beginning of the fate model simulation. Because sediment represented in the fate model is 30 cm thick, the porewater concentrations were estimated to deeper depths based on data from RI sediment cores that indicate concentrations generally increase with depth down to a depth of approximately 1 m.
<b>Cap Properties</b>		
RCM thickness (cm)	1	Nominal thickness used in model to represent relatively thin layer of RCM.
Particle density of RCM layer (g/cm <sup>3</sup> )	0.33	Calculated to achieve 0.4 lb/sf GAC for a 1-cm RCM assuming a porosity of 0.4. See Equations B-1 and B-2.
Porosity of RCM layer	0.4	Typical value for cap material; value is specified together with thickness and particle density of RCM to produce 0.4 lb/sf of GAC.
Bioturbation zone thickness (cm)	10	10-cm layer representing material that fills in the depressions of ACBM.
Particle density of Bioturbation zone (g/cm <sup>3</sup> )	2.6	Typical value for sediment (e.g., Domenico and Schwartz 1990).
Porosity of bioturbation zone	0.7	Consistent with porosity of sediment assuming materials depositing in depressions of ACBM are consistent with surface sediment.



Model Input Parameter	Value	Data Source
Fraction organic carbon (foc) of bioturbation zone (%)	1.5	Consistent with foc of existing surface sediment assuming material depositing in depressions of ACBM is similar.
<b>Sediment Properties</b>		
Sediment thickness (cm)	100	Thickness of sediment underlying the cap simulated in the model is consistent with the depth of contaminated sediment based on the RI sediment cores, which indicate concentrations generally increase with depth down to a depth of approximately 1 m.
Sediment porosity	0.7	Consistent with fate and transport model (see Appendix A).
Sediment particle density (g/cm <sup>3</sup> )	2.6	Typical value for sediment (e.g., Domenico and Schwartz 1990).
Sediment f <sub>oc</sub> (%)	1.5	Consistent with fate and transport model (see Appendix A).
<b>Mass Transport Properties</b>		
Boundary layer mass transfer coefficient (cm/hr)	0.5	Consistent with fate and transport model (Appendix A).
Groundwater seepage Darcy velocity (cm/yr)	Range	Groundwater velocities ranging from 0 cm/yr to 100 cm/yr were selected based on data analyzed from Lubrizol facility and expectation that vertical velocities within sediments are lower than those based on upland horizontal gradients and slug/pumping test measurements.
Depositional velocity (cm/yr)	0	Conservatively assumed no net sedimentation.
Dispersion length (cm)	1	Based on recommendation from Reible (2012).
Bioturbation layer thickness (cm)	10	Consistent with fate and transport model (Appendix A).
Particle and Porewater Biodiffusion coefficients (cm <sup>2</sup> /yr)	31.5	Consistent with fate and transport model (Appendix A).

## Notes:

µg/L – micrograms per liter

cm – centimeter

cm/hr – centimeters per hour

cm/yr – centimeters per year

cm<sup>2</sup>/s – square centimeters per second

cm<sup>2</sup>/yr – square centimeters per year

f<sub>oc</sub> – organic carbon content

g/cm<sup>3</sup> – grams per cubic centimeter

L/kg – liters per kilogram

yr<sup>-1</sup> – per year

### 2.3 Model Results

Results of the modeling indicate that a single 0.4 lb/sf RCM with a GAC core would prevent any significant flux of PCBs for an extended timeframe. Model-predicted porewater concentrations within the bioturbation zone above the cap are essentially zero for the duration of the 100-year simulation—a reduction in porewater concentration of over 99.9 percent, even at the highest groundwater velocity simulated (100 cm/yr). Although a single layer RCM was considered in the modeling, for FS purposes a double layer of RCM has been assumed in SMA-1 where the PCB source is not well characterized (see Appendix A). The actual thickness, dosage, and number of layers of RCM that might be needed to effectively address porewater PCBs would be more fully evaluated during remedial design.

Although deposition was conservatively ignored in this analysis, Patrick Bayou is known to be a depositional environment based on the sediment transport modeling (Anchor QEA 2011). Deposition of cleaner sediments on top of the cap would produce even lower predicted porewater concentrations at the surface, resulting in a cap that is more effective at reducing concentrations at the surface than the modeling presented herein has estimated.

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### 3 EROSION PROTECTION ANALYSIS

As described in the Section 4 of the main FS, engineered capping (or capping) is a remedial technology for containing contaminants in sediments and preventing or reducing the potential exposure to and mobility of those contaminants from the sediment. It involves the placement of a subaqueous covering or cap of suitable material over contaminated sediment. The engineered sediment caps will consist of separate layers to provide specific functions:

- Chemical isolation from chemicals of concern (COCs) in the underlying sediment (i.e., “chemical isolation layer”), as described in Section 2 of this Appendix
- Protection from physical forces causing erosion (i.e., “armor layer”)

As described in the USEPA and the USACE *Guidance for In-Situ Subaqueous Capping of Contaminated Sediments* (Palermo et al. 1998):

*“The cap component for stabilization/erosion protection has a dual function. On the one hand, this component of the cap is intended to stabilize the contaminated sediments being capped, and prevent them from being resuspended and transported offsite. The other function of this component is to make the cap itself resistant to erosion. These functions may be accomplished by a single component, or may require two separate components in an in-situ cap.”*

In addition, USEPA’s *Contaminated Sediment Remediation Guidance for Hazardous Waste Sites* (USEPA 2005) states that:

*“[t]he design of the erosion protection features of an in-situ cap (i.e., armor layers) should be based on the magnitude and probability of occurrence of relatively extreme erosive forces estimated at the capping site. Generally, in-situ caps should be designed to withstand forces with a probability of 0.01 per year, for example, the 100-year storm.”*

This section describes the evaluation of the erosive forces for the sediment cap in Patrick Bayou (Bayou), which define the extent and type of armor layer necessary to protect the cap.

### 3.1 Hydrodynamic Modeling

The primary objective of the armor layer is to prevent erosion of the chemical isolation layer due to high flows in the Bayou. Hydrodynamic flows, particularly during high-flow events, can result in elevated water velocities and corresponding elevated bed shear stresses, which have the potential to erode sediments. To evaluate the current velocities and stable particle size to resist these velocities, the hydrodynamic model that was developed to evaluate the remedial alternatives was used (described in Anchor QEA 2011). The hydrodynamic model used in this study is the Environmental Fluid Dynamics Code (EFDC), which is approved and supported by the USEPA. EFDC is a general purpose hydrodynamic model capable of simulating flow in rivers, lakes, reservoirs, estuaries, and coastal oceans. The model framework, boundary conditions, development, and calibration are described in detail in Anchor QEA (2011), the simulations conducted for the FS, which considered a range of high flow events up to the 100-year return-interval flow events, are described in Appendix A.

Several events were simulated to capture the maximum velocities that may act upon the sediment cap in each potential SMA. For the FS evaluation, the 2-, 10- and 100-year return interval flow events were simulated. This represents flow rates of 3,000, 6,000, and 10,000 cubic feet per second (cfs), respectively (Anchor QEA 2011). Figures B-2 through B-4 present the maximum depth-averaged velocities for each event.

### 3.2 Stable Particle Size Calculation

The stable particle size (expressed as  $D_{50}$ ) in each SMA to resist the flow velocity and related bed shear stress was estimated using the Maynard method, from USEPA Guidance for In-Situ Subaqueous Capping of Contaminated Sediment – Appendix A: Armor Layer Design (Maynard 1998). The method presented in Maynard (1998) and shown in Equation B-3 is based on the USACE’s Hydraulic Design of Flood Control Channels (USACE 1994). This method uses depth-averaged velocity and flow depth to determine the stable median armor stone size ( $D_{50}$ ).

$$D_{50} = S_f C_s C_v C_T C_G d \left[ \left( \frac{\gamma_w}{\gamma_s - \gamma_w} \right)^{1/2} \frac{V}{\sqrt{K_1 g d}} \right]^{2.5} \quad (\text{B-3})$$

where:

- $D_{50}$  = Median particle size in feet
- $S_f$  = Safety factor = 1.5 from page A-6 of Maynard 1998
- $C_s$  = Stability coefficient for incipient failure = 0.3 for angular rock (from page A-6 of Maynard 1998)
- $C_v$  = Velocity distribution coefficient = 1.0 (from page A-6 of Maynard 1998)
- $C_T$  = Blanket thickness coefficient = 1.0 for flood flows and thickness =  $D_{100}$  (from page A-6 of Maynard 1998)
- $C_G$  = Gradation coefficient =  $(D_{85}/D_{15})^{1/3}$
- $D_{85}/D_{15}$  = Gradation uniformity coefficient = 3.5 (from page A-6 of Maynard 1998)
- $d$  = Water depth in feet (from the hydrodynamic model)
- $\gamma_s$  = Specific (unit) weight of stone = 165 pounds per cubic foot
- $\gamma_w$  = Specific (unit) weight of water = 64.0 pounds per cubic foot (saltwater)
- $V$  = Maximum depth-averaged velocity in feet per second (from the hydrodynamic model)
- $K_1$  = Side slope correction factor = based on maximum slope within the model grid cell using from Plate B-39 from USACE 1994
- $g$  = Acceleration due to gravity = 32.2 feet per second squared

The results are also shown on Figures B-5 through B-7. The computed armor stone  $D_{50}$  for each SMA is summarized in Table B-3.

**Table B-3**  
**Sediment Cap Armor Stone D<sub>50</sub> SMA (inches)**

SMA	2-Year Flow Event	10-Year Flow Event	100-Year Flow Event
1	5.1	14.4	36.8
2	2.4	4.9	8.0
3	2.2	5.2	9.0
4	0.5	0.5	0.5
5	3.1	5.8	6.0
6	2.7	3.8	5.1
7	1.2	1.9	2.2
8	3.1	6.8	6.1
9	0.6	1.7	5.6

### 3.3 Armor Layer Thickness

Maynard (1998) recommends that the thickness of the armor layer be 1.5 times the maximum particle diameter ( $1.5D_{100}$ ) or twice the median particle diameter ( $2D_{50}$ ), whichever is greater. Although this recommendation would result in minimum design thicknesses of only a few inches in some SMAs, the minimum armor protection layer thickness was assumed to be 3 inches in this FS evaluation due to construction tolerances. Table B-4 below summarizes the minimum armor layer thickness for each SMA.

**Table B-4**  
**Sediment Cap Minimum Armor Layer Thickness by SMA (inches)**

SMA	Armor Layer D <sub>50</sub>	Minimum Thickness
1	36.8	74
2	8.0	16
3	9.0	18
4	0.5	3
5	6.0	12
6	5.1	10
7	2.2	4.5
8	6.8	14
9	5.6	12

For larger armor stone sizes, a filter layer would be required to prevent the chemical isolation layer material (e.g., sand and carbon) from passing through the void spaces in the overlying larger material (e.g., erosion protection armor stone).

As described in the Introduction, in lieu of an aggregate armored cap, an ACBM could be used for the armor layer of the cap to minimize the armor layer thickness. Depth-averaged velocities over the capping areas ranged between 3 and 14 feet per second. A 4-inch thick ACBM has been shown to be very resistant to high flow velocity (15 to 17 feet per second) and shear stress (18 to 26 pounds per square foot) (Ayres Associates n.d). This indicates that ACBM could be used to resist these erosive forces. ACBM provides the advantage of being protective of erosive forces, but requiring significantly less armor layer thickness than traditional loose-placed riprap or armor stone.

### **3.4 Bridge Replacement**

Currently, the Railroad Bridge located in SMA-1 is being replaced. Flow in Patrick Bayou will be conveyed under the bridge through a series of culverts. The U.S. Department of Transportation Federal Highway Administration (USDOT FHWA) describes the use of riprap aprons as a common form of erosion protection used at culvert outlets in their Hydraulic Engineering Circular No. 14 (HEC 14; USDOT FHWA 2006). Riprap aprons are constructed at a zero grade for a distance that is often related to the outlet pipe diameter. They do not dissipate significant energy except through increased roughness for a short distance. However, they do serve to spread the flow helping to transition to the natural drainage. The key design elements of a riprap apron are the riprap size as well as the length, width, and depth of the apron (USDOT FHWA 2006). Equation 10.4 from USDOT FHWA (2006) was used to evaluate the stable armor stone size and associated riprap apron dimensions.

Equation 10.4 (USDOT FHWA 2006) computes the median stable armor stone size (i.e.,  $D_{50}$ ) based on the flow rate through the culvert, the diameter of the culvert, and the water depth at the outlet of the culvert (i.e., tailwater depth). The flow rate and water depth used in analysis were equivalent to the 100-year return interval conditions and were based on outputs of the hydraulic model developed for the area. The proposed bridge crossing calls for a configuration of five elliptical-shaped culverts with a span of approximately 11.2 feet and a rise of approximately 14.9 feet. Equation 10.4 (USDOT FHWA 2006) is intended to evaluate

circular culverts but was considered an appropriate method to determine a preliminary estimate of a suitable riprap apron. The  $D_{50}$  calculated using Equation 10.4 (USDOT FHWA 2006) equaled approximately 1 foot. Table 10.1 in USDOT FHWA (2006) provides examples of riprap classes and apron dimensions. A  $D_{50}$  of 1 foot would fall into a Class 4 riprap, which has a  $D_{50}$  of 14 inches. The associated riprap apron length for Class 4 riprap is 6 times the culvert rise, which resulted in an apron length of approximately 90 feet. The riprap apron depth (i.e., thickness) for Class 4 riprap is 2.2 times the  $D_{50}$ , which resulted in an apron depth of approximately 26 inches.

In summary, the culverts will change the flow characteristics of Patrick Bayou locally in the vicinity of the bridge. The evaluation of the proposed scour protection using FHWA design guidance indicates that the proposed cap armor protection for SMA-1 (either the aggregate materials or ACBM) will be capable of withstanding any increases in scour potential due to the installation of the culverts.



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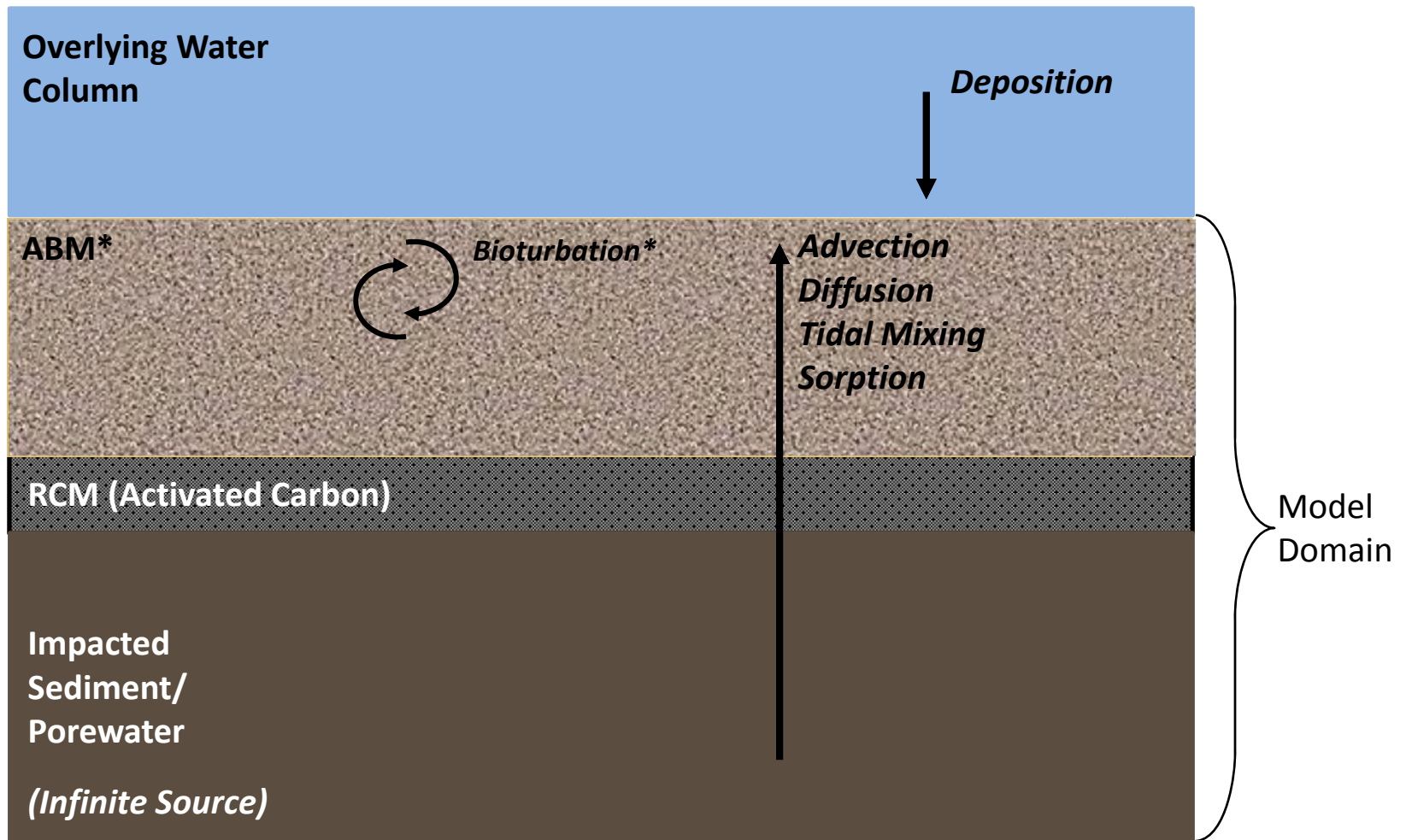
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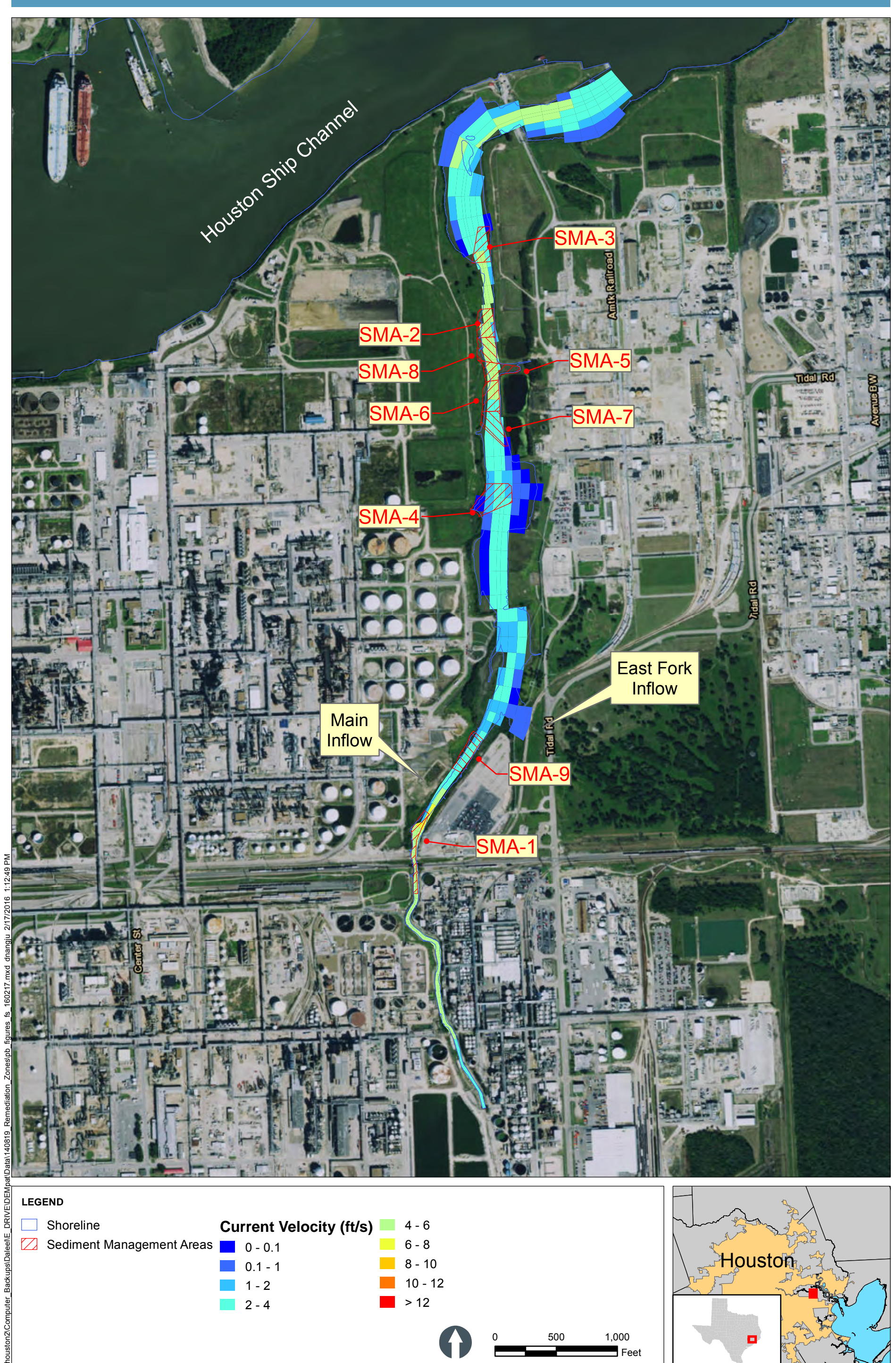
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# FIGURES

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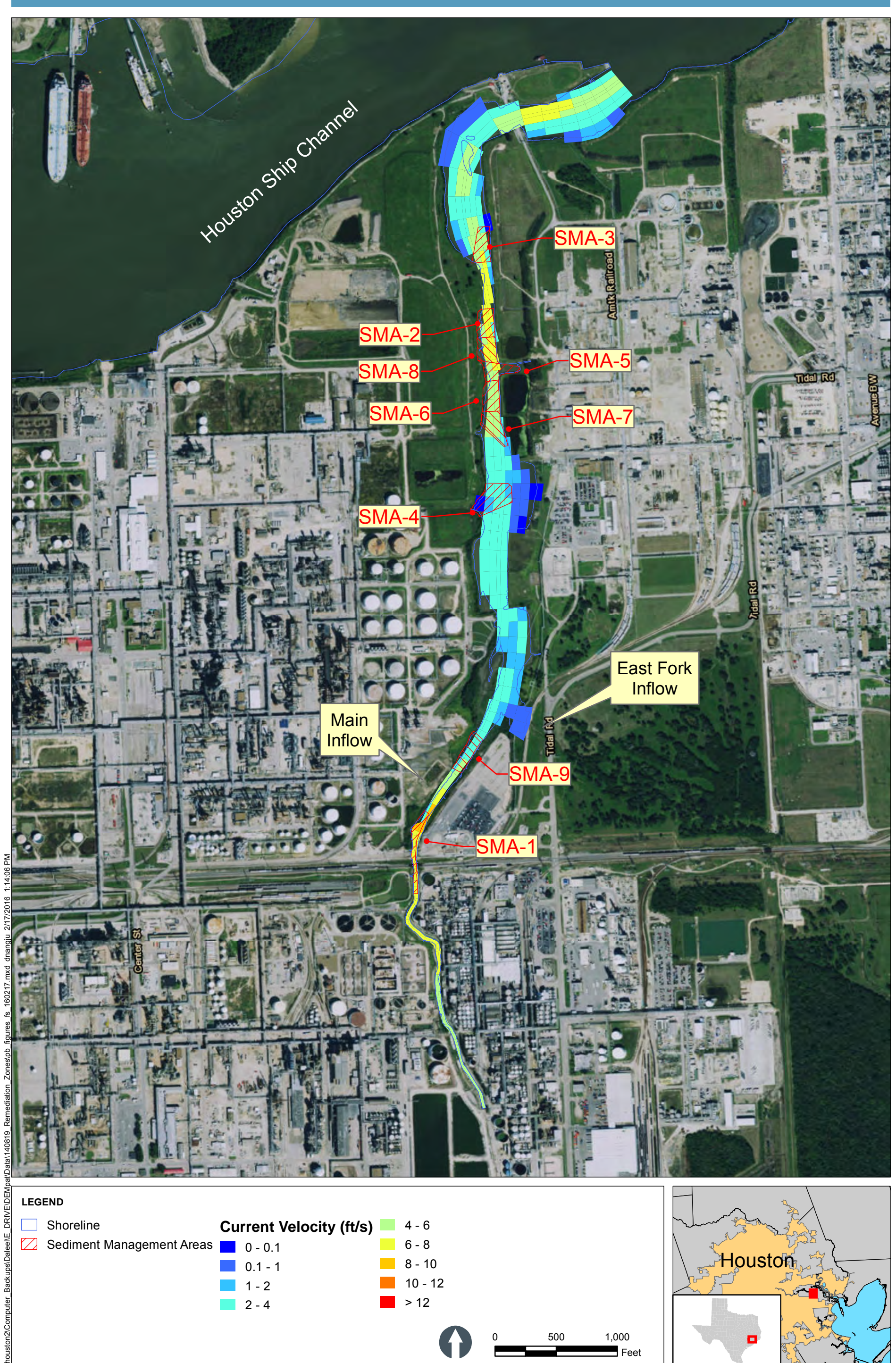
\*The layer of ABM in the model represents the thinner portions of the ABM that fill in with depositing material, where bioturbation can occur.



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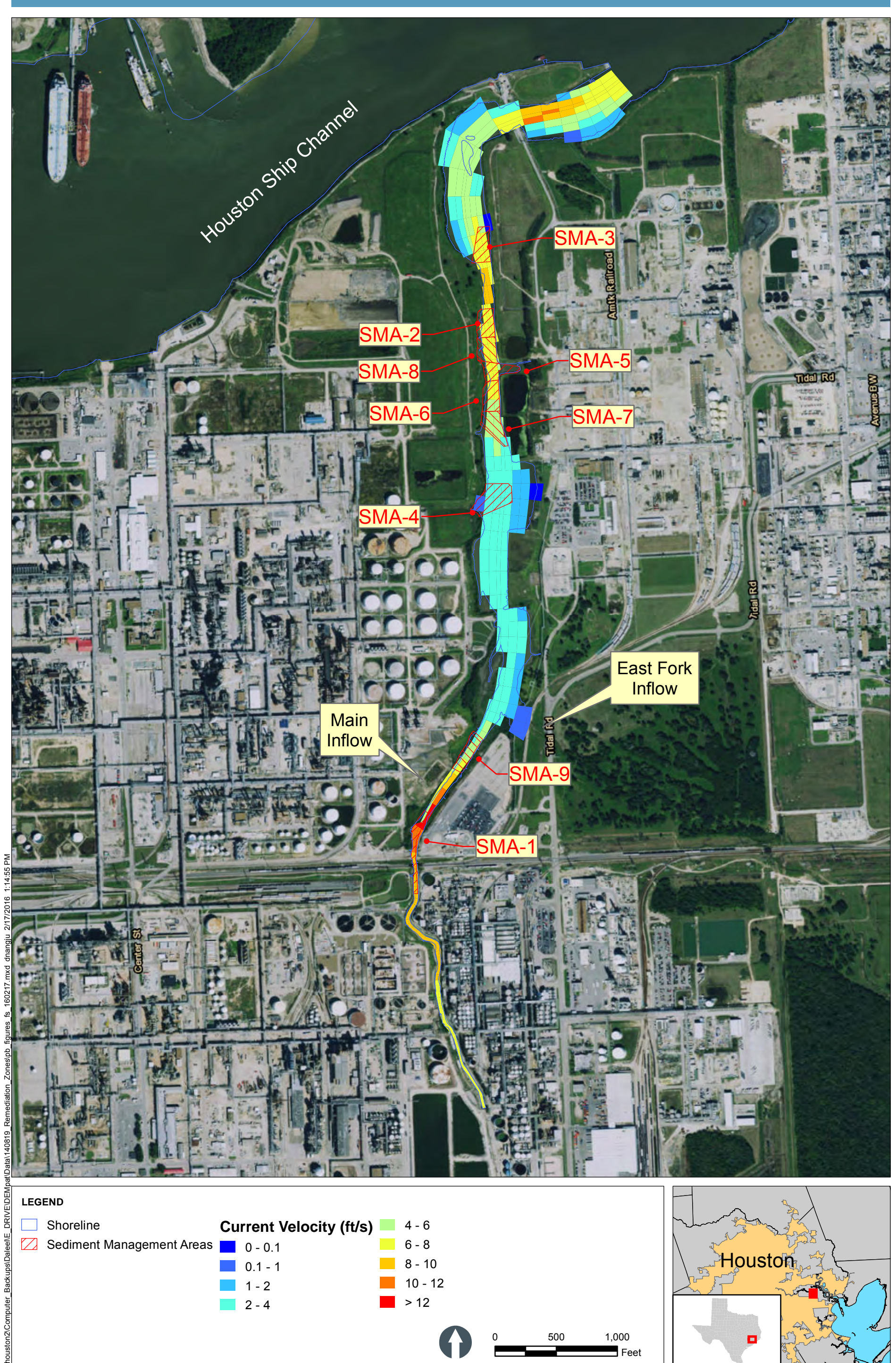
**Figure B-2**  
 Spatial Distribution of Maximum Depth-Averaged Velocities During the 2-Year Flow Event  
 Patrick Bayou Feasibility Study Report – Appendix B  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



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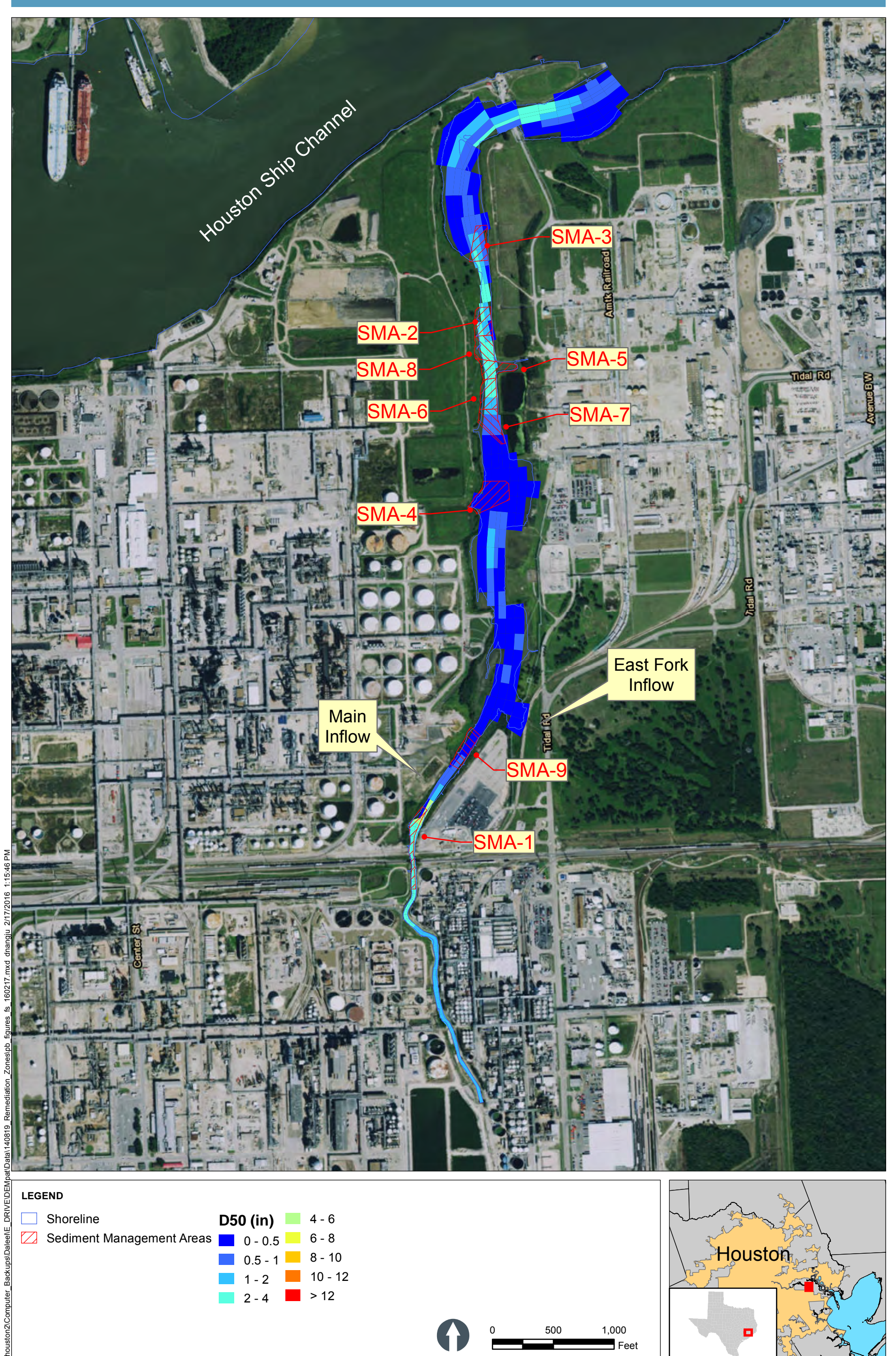
**Figure B-3**  
 Spatial Distribution of Maximum Depth-Averaged Velocities During the 10-Year Flow Event  
 Patrick Bayou Feasibility Study Report – Appendix B  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



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**Figure B-4**  
 Spatial Distribution of Maximum Depth-Averaged Velocities During the 100-Year Flow Event  
 Patrick Bayou Feasibility Study Report – Appendix B  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

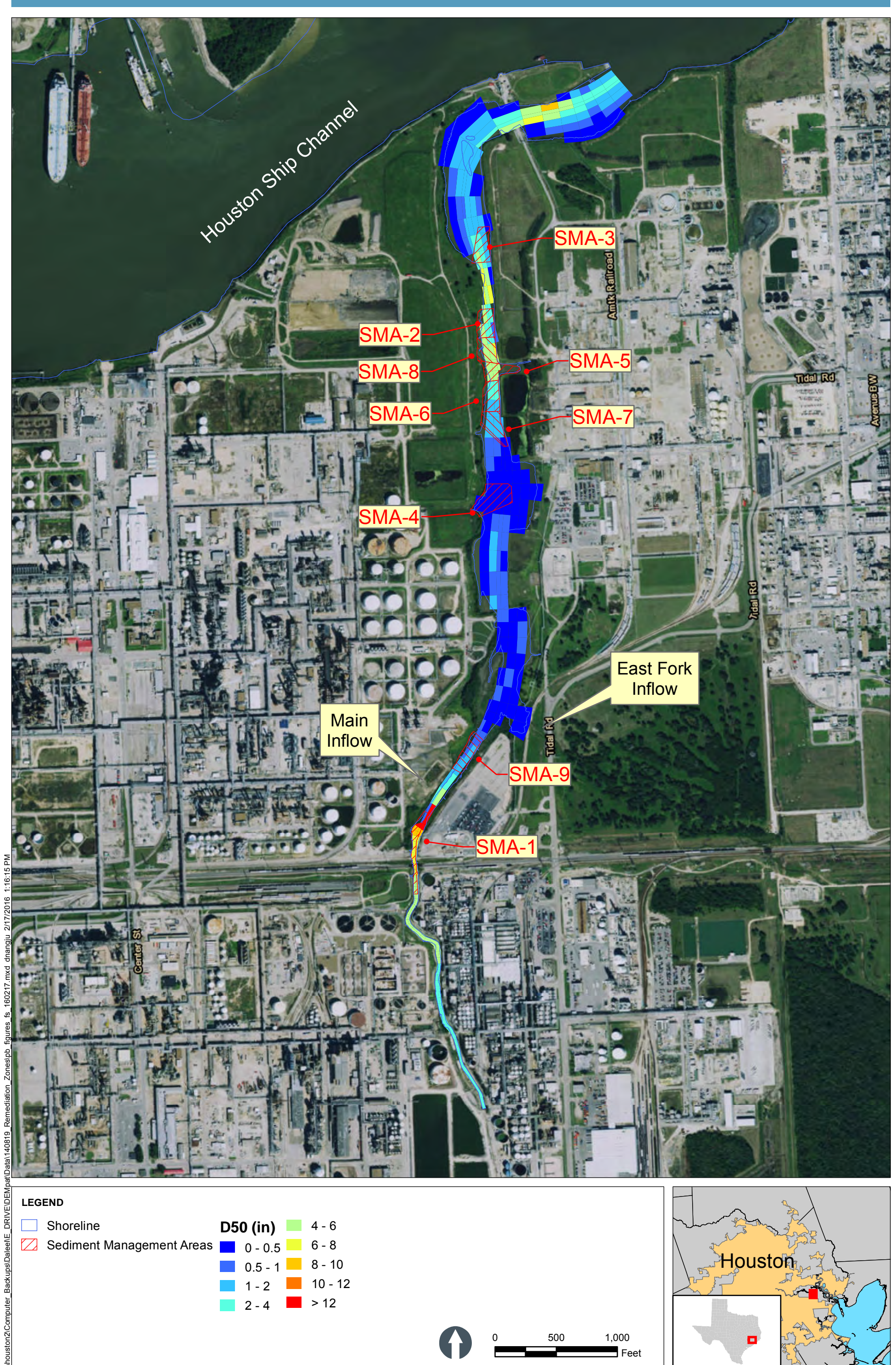


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**Figure B-5**  
 Computed Armor Stone D<sub>50</sub> for the  
 2-Year Flow Event  
 Patrick Bayou Feasibility Study Report – Appendix B  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

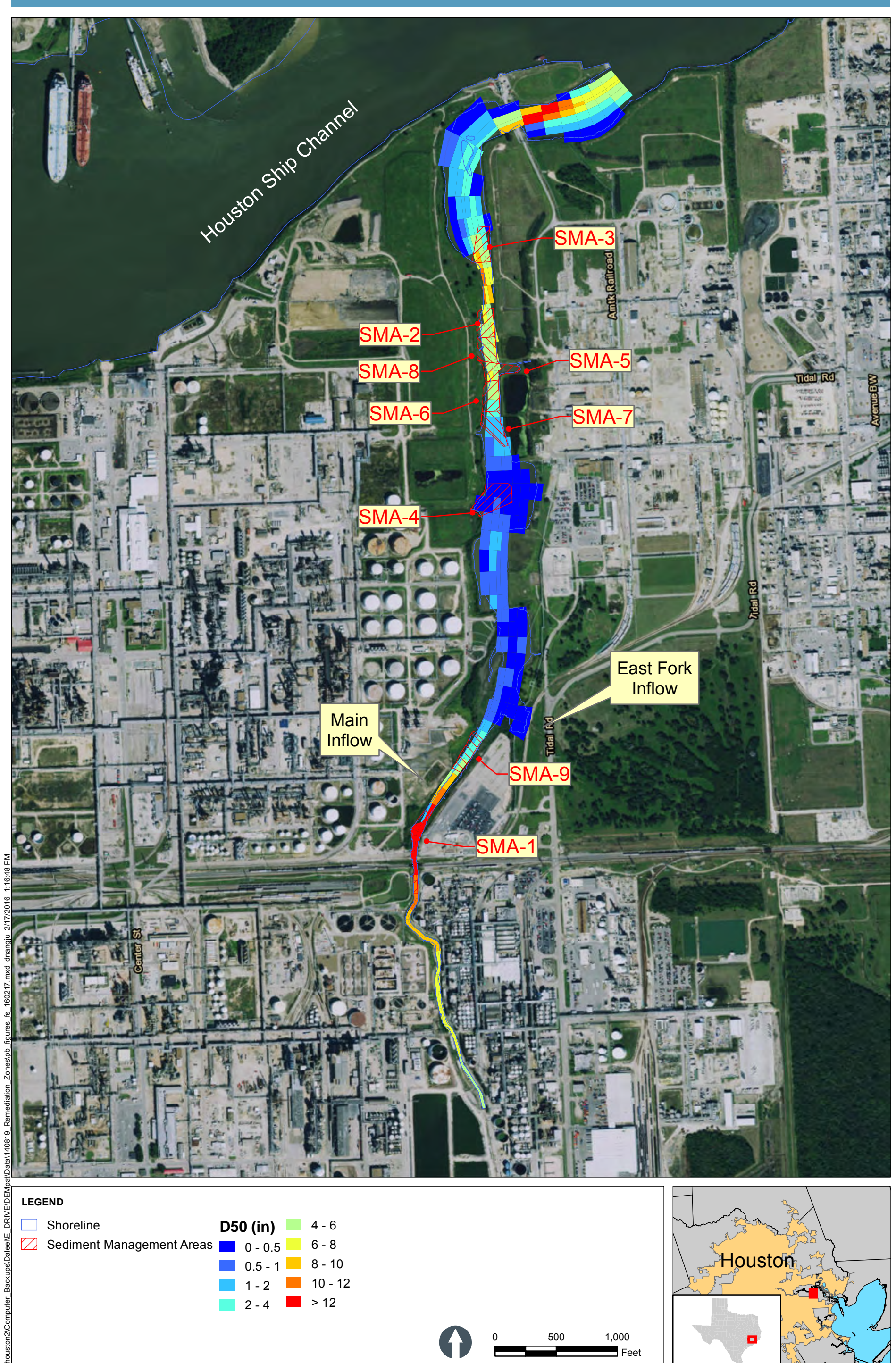




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**Figure B-6**  
 Computed Armor Stone D<sub>50</sub> for the  
 10-Year Flow Event  
 Patrick Bayou Feasibility Study Report – Appendix B  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



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**Figure B-7**  
 Computed Armor Stone D<sub>50</sub> for the  
 100-Year Flow Event  
 Patrick Bayou Feasibility Study Report – Appendix B  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

# APPENDIX C

## REMEDIAL ALTERNATIVE COST DEVELOPMENT

### PATRICK BAYOU SUPERFUND SITE

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**Prepared for**

Patrick Bayou Joint Defense Group

U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC

614 Magnolia Avenue

Ocean Springs, Mississippi 39564

**March 2017**

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## REMEDIAL ALTERNATIVE COST DEVELOPMENT

This appendix summarizes the approaches used to develop remedial alternative quantities and cost estimates for the Patrick Bayou Superfund Site (Site) as a part of the Feasibility Study (FS). *A Guide to Developing and Documenting Cost Estimates During the Feasibility Study* (USEPA 2000) was followed to develop these cost estimates and was supplemented with contractor estimates and professional judgment where appropriate in estimating daily costs and production rates. Professional judgment drew on the recently completed construction projects in the region.

The remainder of this appendix discusses the following:

- Method for developing unit costs for the construction elements, including:
  - Defining each construction task
  - Discussion of the cost approach for each construction task
- Method for developing quantities for each construction element

## UNIT COST DEVELOPMENT

The cost estimate consists of direct and indirect cost elements:

- Direct Construction Tasks
  - Mobilization/Demobilization
  - Environmental Protection and Erosion Control
  - Construction Surveys, Site Preparation, and Utility Clearance
  - Debris Removal
  - Treatment – Mixing Activated Carbon (AC) into surface sediments
  - Treatment – Reactive Core Mat (RCM) with AC
  - Capping - Articulated Concrete Block Mat (ACBM)
- Indirect Construction Tasks
  - Permitting
  - Engineering Design
  - Construction Administration/Observation
  - Long-Term Natural Recovery Monitoring (net present value)

- 
- Long-Term Armored Cap Monitoring (net present value)
  - Cap Maintenance (net present value)
  - U.S. Environmental Protection Agency (USEPA) 5-Year Review (net present value)

Table 1 provides a summary of unit cost assumptions for the cost sub-elements of each cost element bulleted above. Where appropriate, the source of the assumption is presented.

USEPA (2000) states that contingencies for detailed analysis of alternatives can be as high as 50 percent. For this FS, a contingency of 30 percent of the total direct construction costs was assumed.

## **REMEDIAL ELEMENT QUANTITY ASSUMPTIONS**

The total cost of a remedial alternative will be a function of the unit costs for each remedial element (Table 1) and the quantity of each remedial element. Table 2 summarizes the assumptions used to develop the quantities of the remedial alternative elements.

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USEPA (U.S. Environmental Protection Agency), 2000. *A Guide to Developing and Documenting Cost Estimates During the Feasibility Study*. USEPA 540-R-00-002 OSWER 9355.0-75. July 2000.

**Table C-1  
Unit Cost Assumptions**

Element		Unit Cost	Unit	Source and/or Comment
Mobilization/ Demobilization and Setup	Mobilization and Demobilization	15% of Direct Construction Costs	%	Engineering judgment. Because Alternative 3 has a smaller project footprint, a higher rate is assumed.
	Environmental Protection and Erosion Control	\$50,000	Lump Sum	Engineering judgment and similar work with larger scope.
	Construction Surveys, Site Preparation & Utility Clearance	\$50,000	Lump Sum	Engineering judgment.
Treatment and Capping	Debris Removal	\$16,400	Acre	Previous Texas project experience; assumes 5 Tons of Debris collected per acre. Includes removal and disposal costs.
	Mix Activated Carbon (AC) into Sediments	\$4.20	Square Foot	Engineering judgment and similar project costs.
	Reactive Core Mat (RCM) with AC	\$7.00	Square Foot	Previous Contractor Quotes on similar project.
	Articulated Concrete Block Mat (ACBM)	\$9.10	Square Foot	Contractor Site Visit Quote.
Indirect Construction Costs	Permitting	\$200,000	Lump Sum	Engineering judgment and similar project costs.
	Engineering Design	\$360,000 to \$410,000	Lump Sum	Engineering judgment.
	Construction Administration/Observation	\$370,000 to \$520,000	Lump Sum	Engineering judgment.

Element		Unit Cost	Unit	Source and/or Comment
	Long-Term Natural Recovery Monitoring	Net Present Value	Lump Sum	Assumed \$79,000 for Alternatives 2 and 4 and \$106,000 for Alternative 3; 10 natural recovery monitoring events in Years 1, 2, 3, 4, 5, 10, 15, 20, 25 and 30. Assumed discount rate of 7% to determine net present value.
	Long-Term Armored Cap Monitoring	Net Present Value	Lump Sum	Assumed \$32,000 (Alt 3) and \$56,000 (Alt 4) cap monitoring events in Year 1, 2, 5, 10, 15, and 30. Assumed discount rate of 7% to determine net present value.
Indirect Construction Costs	Cap Maintenance	Net Present Value	Lump Sum	Assumes cap maintenance in years 1 and 2. Maintenance costs are assumed to be 10% of the capping cost for Alternative 3, and 5% of the capping cost for Alternative 4. Assumed discount rate of 7% to determine net present value.
	USEPA 5-Year Review	Net Present Value	Lump Sum	Assumed \$50,000 for USEPA costs every 5 years for 30 years. Assumed discount rate of 7% to determine net present value.

**Table C-2**  
**Quantity Assumptions**

Element	Assumption	Source and/or Comment
Debris Removal	The debris coverage is 20% of the capping or treatment area	Assumes small debris can be capped by ACBM material but large and sharp objects must be removed for successful capping
Mix with AC	AC will be mixed into SMA-2 through SMA-9 remediation areas	Area determined from GIS; 20% contingency added to GIS area
RCM with AC	RCM/AC will be installed in SMA-1 area as defined in the FS text	Area determined from CAD; 20% contingency added to CAD area
ACBM	ACBM will be installed from channel bank to bank	Area determined from CAD; 20% contingency added to CAD area

Notes:

AC – Activated Carbon

ACBM – Articulated Concrete Block Mat

CAD – Computer-Aided Design

GIS – Geographic Information Systems

RCM – Reactive Core Mat



# APPENDIX D

## SUPPLEMENTAL SURFACE WATER SAMPLING DATA REPORT

### PATRICK BAYOU SUPERFUND SITE

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**Prepared for**

Patrick Bayou Joint Defense Group  
U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC  
614 Magnolia Avenue  
Ocean Springs, Mississippi 39564

**August 2014**

SUPPLEMENTAL SURFACE WATER  
SAMPLING DATA REPORT  
PATRICK BAYOU SUPERFUND SITE  
REMEDIAL INVESTIGATION  
DEER PARK, TEXAS

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**Prepared for**

Patrick Bayou Joint Defense Group

**Prepared by**

Anchor QEA, LLC

614 Magnolia Avenue

Ocean Springs, Mississippi 39564

**August 2014**

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## TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION AND PURPOSE</b>	<b>1</b>
1.1	Site Description	1
1.2	Sampling Objectives	1
<b>2</b>	<b>SURFACE WATER COLLECTION SUMMARY</b>	<b>3</b>
2.1	Sample Identification Scheme	3
2.2	Sampling Locations	4
2.3	Sample Collection Methods and Schedule	4
2.4	Field Measurements	6
2.5	Field Deviations from the SAP	6
<b>3</b>	<b>LABORATORY METHODS</b>	<b>8</b>
3.1	Methods for Chemical Analysis	8
3.2	Laboratory Deviations from SAP	8
<b>4</b>	<b>ANALYTICAL DATA VALIDATION AND DATA MANAGEMENT</b>	<b>9</b>
4.1	Overall Data Quality	9
4.2	Sample Transport and Holding Times	10
4.3	Equipment Blank Results	10
4.4	Field Duplicate Results	10
4.5	Method Duplicate Results	10
4.6	Laboratory Quality Control	11
<b>5</b>	<b>RESULTS</b>	<b>12</b>
5.1	Water Quality	12
5.2	Velocity and Discharge	12
5.3	Conventional Parameters	13
5.4	PCB Congeners	13
<b>6</b>	<b>SUMMARY</b>	<b>15</b>
<b>7</b>	<b>REFERENCES</b>	<b>16</b>

### **List of Tables**

Table 1	Surface Water Sample Locations and Analyses
Table 2	Rainfall Events and Sample Collection Dates
Table 3	Water Quality Measurements
Table 4	Discharge Measurements
Table 5	Summary of Analytical Results

### **List of Figures**

Figure 1	Patrick Bayou Superfund Site Vicinity Map
Figure 2	Surface Water Sampling Locations
Figure 3	Spatial Distribution of Total PCB Concentration in Surface Water

### **List of Appendices**

Appendix A	Field Logbook
Appendix B	Data Sheets
Appendix C	Laboratory Reports
Appendix D	Data Validation Reports
Appendix E	Detailed Analytical Results
Appendix F	Discharge Calculations

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## LIST OF ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
mS/cm	millisiemen per centimeter
AOC	Administrative Order on Consent
D	field duplicate of the normal sample
DOC	dissolved organic carbon
EB	equipment blank
EF	East Fork
ft/s	foot per second
ft <sup>3</sup> /s	cubic foot per second
FS	Feasibility Study
HSC	Houston Ship Channel
JDG	Patrick Bayou Joint Defense Group
LDC	Laboratory Data Consultants, LLC
MD	method duplicate
mg/L	milligram per liter
MID	mid-depth of the water column
mV	millivolt
N	normal sample
ng/L	nanogram per liter
ORP	Oxidation Reduction Potential
PB	Patrick Bayou
PCB	polychlorinated biphenyl
PSCR	Preliminary Site Characterization Report
PVC	polyvinyl chloride
QA	quality assurance
Report	<i>Supplemental Surface Water Sampling Data Report</i>
RI	Remedial Investigation
SAP	<i>Supplemental Surface Water Sampling and Analysis Plan</i>
SD	standard deviation
SDG	sample delivery group
SGS	SGS North America

Site	Patrick Bayou Superfund Site
SM	standard method
SW	surface water grab
TOC	total organic carbon
TSS	total suspended solids
QA	quality assurance
USEPA	U.S. Environmental Protection Agency

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## 1 INTRODUCTION AND PURPOSE

This *Supplemental Surface Water Sampling Data Report* (Report) describes the methods and results for the evaluation of polychlorinated biphenyls (PCBs) in surface water at the Patrick Bayou Superfund Site (Site) in Deer Park, Texas. This Report was prepared for the Patrick Bayou Joint Defense Group (JDG) in response to an Administrative Order on Consent (AOC) and Settlement Agreement with the U.S. Environmental Protection Agency (USEPA) dated January 31, 2006. The AOC concerns the performance of a Remedial Investigation/Feasibility Study (RI/FS) at the Site. The data collection activities described in this Report were conducted to support refinement of the Site chemical fate and transport model being developed for the FS.

### 1.1 Site Description

Patrick Bayou is a tributary of the Houston Ship Channel (HSC) in Harris County, Texas (Figure 1). The Site originates south of State Highway 225 in the city of Deer Park, Texas, and flows approximately 2.5 miles in a northerly direction, discharging into the south side of the HSC approximately 2.3 miles upstream of its confluence with the San Jacinto River. The Site and its salient features are described in more detail in the *Preliminary Site Characterization Report* (PSCR; Anchor 2006) and the *Remedial Investigation Report* (RI Report; Anchor QEA 2013).

### 1.2 Sampling Objectives

As part of the FS, a mathematical model for the Site is being developed to simulate the physical and chemical processes that are controlling the fate and transport of PCBs in Patrick Bayou and to develop a predictive tool that can be used to evaluate and support the selection of remedial alternatives. Based on the results of the modeling to date, it is hypothesized that sediments are the primary source of PCBs observed in surface water due to flux from surface sediment porewater. Consistent with the Adaptive Management Strategy in use at the Site, additional sampling was performed to address uncertainty in the model due to data gaps identified in the surface water dataset and to assess current conditions at previous sampling locations. Objectives included the following:

1. Sample surface water at target points in the upstream portion of the Site to determine the nature and extent of PCBs in surface water.

2. Sample surface water in the midstream and downstream portions of the Site and outside of the Site boundary to provide a complete and synoptic characterization of PCBs in surface water at the time of sampling.



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## 2 SURFACE WATER COLLECTION SUMMARY

Samples were collected and identified in accordance with the methods set forth in the USEPA-approved *Supplemental Surface Water Sampling and Analysis Plan* (SAP; Anchor QEA 2014). The field logbook documenting sample collection is provided in Appendix A.

### 2.1 Sample Identification Scheme

As described in the SAP, sample identification for surface water samples followed the previously identified scheme for the Site (Anchor QEA 2009). Sample identification for surface water samples followed the format PB###-#XXXXX-YYMMDD-X:

- PB###-#XXXXX-YYMMDD-X: Each location was identified by “PB” to depict the project location (Patrick Bayou) and the station identifier associated with the channel station in hundreds of feet (e.g., PB100<sup>1</sup>). Samples collected in the East Fork were designated with “EF” and locations in the Houston Ship Channel as “HSC.”
- PB###-#XXXXX-YYMMDD-X: Individual samples at each location were identified by the same alphanumeric identifier used to identify the stations (PB###), followed by a one-digit numeric substation identifier (#), a two-digit matrix identifier (i.e., SW = surface water grab), and a three-digit identifier to show the relative position in the water column (i.e., MID = mid depth of the water column) for that sample.
- PB###-#XXXXX-YYMMDD-X: The collection date of each sample was included in the sample name to distinguish among previously collected samples from the same station. The following alphanumeric identifiers indicated the sample type:
  - N – normal sample
  - D – field duplicate of the normal sample
  - MD – method duplicate

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<sup>1</sup> Because sampling has occurred over the course of several years and many stations have been revisited, “.#” has been appended to station identifiers with multiple sampling events. For example, Station HSC-14 was originally sampled in 2009 and was re-sampled during this event. Therefore, to distinguish between sampling events, “HSC14.1” was used as the station identifier for the 2014 sample. Additionally, “\_X” has been appended to station identifiers that have the same lateral distance from the mouth of Patrick Bayou as previous stations but that were collected at a different location (e.g., “PB-070\_B”).

The equipment blank was labeled as “EB#.” The “#” is a sequential identifier. All relevant information for the blank (date and time of collection, station, associated surface water sample, and sample collector’s name) was recorded in the field notes.

## **2.2 Sampling Locations**

A total of 21 locations were included in this surface water sampling program. This number is based on reoccupying six surface water stations sampled in 2009 and 2011, 12 additional stations spaced at approximately 200-foot intervals beginning at the upstream Site boundary (PB-102) and extending downstream to PB-079 (i.e., the gunite channel), and three more stations located within the main channel of the Site (Figure 2 and Table 1). In accordance with the SAP, all locations were sampled during a slack, low-tide condition to assess baseline conditions and avoid potential dilution due to inflowing tidal water.

In addition, in accordance with the SAP, other samples were taken as needed based on field observations during the sampling event. Two additional samples were taken near high tide at two locations to compare any potential differences during varying tidal conditions (PB-070\_B and PB-081\_A). These comparisons are discussed in Section 5.4.

## **2.3 Sample Collection Methods and Schedule**

After an approximate 1-month delay in sampling due to weather, samples were collected between March 11 and March 19, 2014. Samples were collected using a peristaltic pump and dedicated tubing. Water was collected from the mid-depth of the water column, as determined in the field, at each station. Sampling occurred at approximately slack low tide (the time surrounding the nadir of the low tide), generally progressing from downstream to upstream to ensure collection of representative samples.

Whenever safely possible, samples were collected from the shoreline as required by the SAP. Samples were collected from the shoreline at four locations: PB-020, PB-031.1, PB-047.3, and PB-056\_C. Additionally, a shoreline sample was collected at Station PB-099 (as well as a sample collected from a boat) for a method duplicate. To collect samples from the shoreline, a polyvinyl chloride (PVC) tripod was used and tubing was affixed to one leg at the desired sample depth. The tripod was then carefully deployed from the shoreline to extend the

tubing inlet away from bank. In general, samples collected using this method were taken within 5 to 7 feet of the shoreline and in relatively shallow water (i.e., 1 to 2.5 feet deep) compared to samples taken by boat from adjacent sampling locations. For samples collected from a boat, the station was approached from downstream and care was taken to avoid disturbing sediments while approaching. Samples were taken as close to the apparent thalweg of the channel as possible. Once on station, the water depth was measured using a lead line and then a 10-minute delay was observed prior to sampling to allow any disturbed sediment to settle. Samples were then collected from the upstream side of the boat.

Sample collection dates occurred in accordance with the SAP, which specified that sampling was not to occur within 48 hours after a heavy rainfall event<sup>2</sup> and sampling would not be performed during measurable rainfall events. Sampling began on March 11, 2014. The next day, March 12, high winds and extreme low tides began affecting sample representativeness<sup>3</sup>; therefore, samples taken on that day were discarded, and sampling was halted until weather conditions were appropriate. On the following days, March 13 and 14, the wind ceased, and samples were again collected. On March 15, intermittent light drizzle was observed at the Site during sampling, but periodic checks of nearby real-time rain gauges<sup>4</sup> did not indicate measurable amounts of rainfall. However, by the afternoon, measurable amounts of rainfall were recorded for that day and continuous light rainfall was observed at the Site. Therefore, sampling was suspended and samples collected that day were discarded, consistent with the SAP, which states sampling will not occur during or between measurable rainfall events. On March 16 and 17, fieldwork did not occur due to continued rainy conditions. Sampling began again on March 18 and was completed on March 19. Table 2 shows these rain events and shows the dates on which sample collection occurred.

Unfiltered water samples were collected at each station and submitted to SGS North America for analysis of PCB congeners, total organic carbon (TOC), and total suspended solids (TSS). Samples from four stations (PB-101.1, PB-081\_A, PB-056\_C, and PB-006.2), were also subsequently vacuum filtered by the laboratory through a 0.45 µm glass fiber filter for

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<sup>2</sup> Defined as greater than 1 inch per 24-hour period for the purposes of this work.

<sup>3</sup> Significant increases in water turbidity due to low tides and wind driven wave action were observed.

<sup>4</sup> Harris County Flood Warning Service gages 1420, 240, and 270.

analyses of PCB congeners and dissolved organic carbon (DOC) to evaluate total versus dissolved concentrations of PCBs in the water column.

## **2.4 Field Measurements**

Immediately after a surface water sample was collected, field parameters were measured at each sample location (at approximately the same sample depth from which the surface water sample was collected) using a water column-deployed multi-parameter water quality instrument. Measurements of pH, temperature, oxidation reduction potential (ORP or Eh), conductivity, and dissolved oxygen were recorded on water quality sampling forms (Appendix B).

In addition, at stations between PB-102 and PB-079 (i.e., gunite channel), velocity measurements were taken at every third station to permit calculation of stream discharge at the time of sampling (Stations PB-081\_A, PB-087, PB-095, PB-097\_A, and PB-099). Velocity measurements were collected consistent with the SAP, as discussed in Section 2.5.

## **2.5 Field Deviations from the SAP**

There were three minor deviations from the SAP.

1. The SAP states that ORP would be recorded at each sampling station; however, due to unforeseen instrument issues, ORP was not able to be collected at certain stations, as shown in Table 3. However, this equipment malfunction does not impact the intended use of the data, which is to assess PCB concentrations in surface water.
2. The SAP prescribes that “method” duplicates would be collected at two locations, wherein the sample would be taken from the shoreline and resampled from a boat and the PCB analytical results subsequently compared to check for method bias. However, based on weather and channel conditions, it was only possible to collect one method duplicate (Station PB-099). This does not impact the intended use of the data because the observed discrepancy between shoreline and boat sampling results at station PB-099 was not significant.
3. The SAP states that “the highly variable channel geometry in downstream areas makes accurate velocity measurements and discharge calculations difficult.” This statement proved true in the field, as velocity measurements were collected in

accordance with the procedures outlined in the SAP; however, there are concerns regarding the validity of these data due to observed flow reversals that occurred during velocity data collection. These reversals are hypothesized to be a result of large ships passing the outlet of Patrick Bayou and the wedge of water thus pushed upstream in the waterway. Often, the field crew could not see these vessels from their upstream vantage point within the gunite channel and could not determine the timing or influence of these events directly. Therefore, velocity and discharge data collected during this sampling program might have been influenced by these conditions.

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### 3 LABORATORY METHODS

This section briefly describes the analytical methods used to generate the chemistry data for the surface water samples in this Report. A detailed description of the analytical methods can be found in the SAP (Anchor QEA 2014). This section also summarizes any deviations by the laboratory from the SAP.

#### 3.1 Methods for Chemical Analysis

Table 1 lists the surface water samples that were analyzed for each of the chemical methods listed below. Analyses were performed by SGS North America (SGS) in Wilmington, North Carolina. SGS is NELAP-accredited by the Texas Commission on Environmental Quality (certificate number: T104704260-14-6). Twelve reports were received from the laboratory and were validated. Laboratory reports are provided in Appendix C.

Twenty-three surface water samples, two field duplicates, one method duplicate and one equipment blank were sent to the laboratory for total PCB congeners, total organic carbon (TOC) and total suspended solids (TSS) analyses. Four samples and one field duplicate were also analyzed for dissolved PCB congeners and DOC. The equipment blank was analyzed for total and dissolved PCB congeners.

#### 3.2 Laboratory Deviations from SAP

The laboratory used the required analytical methods and all reporting limits were met with the following exceptions:

- TSS: Standard method (SM) 2540D was used instead of SM 2540C. These two methods are comparable and are expected to produce similar results so data quality is not expected to be impacted. Additionally, the reporting limit for one field duplicate sample (PB083-1SWMID-140318-D) was reported as not detected at 25 milligrams per liter (mg/L), which is a higher reporting limit than what is listed in the SAP (5 mg/L). The parent sample associated with this field duplicate had an estimated TSS concentration of 5 mg/L.
- DOC: One sample and its associated field duplicate were filtered and preserved 5 days after receipt at the lab. Samples for DOC should be filtered and preserved within 48 hours of sample collection.

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## 4 ANALYTICAL DATA VALIDATION AND DATA MANAGEMENT

Third party data validation was performed on each data set of chemical analyses. Data validation verified the accuracy and precision of chemical determinations performed during this investigation. This section presents the results of the data validation conducted by Laboratory Data Consultants (LDC). The following sections summarize the overall data quality and do not necessarily address each individual sample result affected by data qualification. Detailed information regarding sample result qualifications is available in the data validation reports (Appendix D).

### 4.1 Overall Data Quality

A review of the validation report indicates that the overall data quality of the chemistry data generated was considered acceptable. Total and dissolved PCB congeners were reported under six sample delivery groups (SDGs): A6492, A6504, A6506, A6517, A6521, and A6528. TOC, DOC, and TSS were reported under SDGs 31400373, 31400389, 31400395, 31400411, 31400420, and 31400427.

Detailed data quality objectives and quality assurance (QA) procedures are provided in the SAP (Anchor QEA 2014). Laboratory data packages were validated by LDC under USEPA National Functional Guidelines (USEPA 1986, 2010, 2011) and using the data quality objectives described in the SAP. The validation reports are in Appendix D.

Any data qualifiers applied to the data during the final validation procedures have been incorporated into the final database for this project. Data qualifiers assigned as a result of the data validation and their definitions are shown on the analytical results table (Appendix E). All data were considered useable as reported or as qualified, and no data were rejected. The data may have been qualified as estimated for a particular analysis based on method or technical criterion as stated in the functional guidelines (USEPA 1986, 2010, 2011). Data qualified with a “J” indicates that the associated numerical value is the approximate concentration of the analyte. Data qualified with a “UJ” indicates the approximate reporting limit below which the analyte was not detected. In some cases, reporting limits were raised to account for method blank contamination or matrix interference.

## 4.2 Sample Transport and Holding Times

All samples were received at the laboratories in good condition and within the recommended temperature range. All analyses were performed within holding times, with the exception of one sample and its associated field duplicate for DOC (samples PB006.2-1SWMID-140311-N and PB006.2-1SWMID-140311-D), as discussed in Section 3.2. Therefore, the detected results for DOC for these two samples were qualified as estimated.

## 4.3 Equipment Blank Results

One equipment blank was collected and analyzed for total and dissolved PCBs. Several PCB congeners were detected in the field blank. Most detections were insignificant compared to sample concentrations, with the exceptions of PCB-051 and PCB-068. Detections of these congeners in the samples may be due to equipment blank contamination, and associated sample results may be biased high for these congeners. However, PCB-051 and PCB-068 did not contribute more than 4 percent to the total PCB concentration for any samples, indicating that any high bias due to their presence in the equipment blank is not significant. No qualifiers were applied to associated sample results due to equipment blank detections.

## 4.4 Field Duplicate Results

Two field duplicates were collected with the surface water samples. Duplicates were analyzed for the same parameters as the parent samples. No results were qualified based on field duplicate results. Field duplicate results are discussed in detail in the data validation reports (Appendix D).

## 4.5 Method Duplicate Results

One method duplicate was collected with the surface water samples. The method duplicate was analyzed for the same parameters as the parent sample. When a target analyte was detected in both the parent sample and the method duplicate, the relative percent difference was below 50 percent, with the exception of PCB-003, which had a relative percent difference of 54 percent. Both results for PCB-003 were below the reporting limit. No results were qualified based on the method duplicate results.



#### **4.6 Laboratory Quality Control**

The validation report indicates the majority of the data results did not require qualification. Some data were qualified as estimated based on data quality objective or method exceedances. No data were rejected. Some PCB congener results were qualified as non-detects due to detections in the associated method blanks. Some PCB congener results were qualified as estimated because the laboratory flagged them as Estimated Maximum Potential Concentration due to ion abundance ratios that did meet method criteria. Two DOC results were qualified due to a hold time exceedance. All data are usable as reported or as qualified.

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## 5 RESULTS

This section reports sampling results, including water quality measurements, discharge measurements, and analytical results.

### 5.1 Water Quality

Water quality parameters were measured at Patrick Bayou stations as well as one station in the East Fork and one in the HSC, as shown in Table 3. In Patrick Bayou, water parameter results were as follows:

- Water depth ranged from 1 foot at Station PB-020 to 5.2 feet at Station PB-079.
- pH ranged from 8.2 at Station PB-056\_C to 7.4 at Station PB-119\_B (mean = 7.7, standard deviation [SD] = 0.2).
- Temperature ranged from 17.2 degrees Celsius (°C) at Station PB-006.2 to 22.7 °C at Station PB-091 (mean = 20.4 °C, SD = 1.7 °C ).
- ORP ranged from 200.1 millivolts (mV) at Station PB-083 to 26.1 mV at Station PB-087 (mean = 120.5 mV, SD = 55 mV).
- Conductivity was within the range expected for standard base flow conditions and ranged from 0.738 millisiemens per centimeter (mS/cm) at Station PB-119\_B to 50.1 mS/cm at Station PB-006.2 (mean = 10.7 mS/cm, SD = 9.6 mS/cm).
- Dissolved oxygen ranged from 5.9 milligrams per liter (mg/L) at Station PB-081\_A to 13.9 mg/L at Station PB-056\_C (mean = 9.5 mg/L, SD = 1.9 mg/L). Dissolved oxygen was recorded as percent at three stations: HSC-14.1, PB-070\_B, and PB-079. The results for these stations ranged from 83.1 percent (Station HSC-14.1) to 110.3 percent (Station PB-070\_B).

### 5.2 Velocity and Discharge

Velocity measurements at sampling stations varied by station and ranged from 0 feet per second (ft/s) to 0.69 ft/s. The resulting calculated discharge values ranged from 3.9 cubic feet per second (ft<sup>3</sup>/s) to 51 ft<sup>3</sup>/s, and all but one discharge value was less than 15 ft<sup>3</sup>/s (Table 4). The most rapid velocities and discharge occurred at Station PB-087 on March 14, 2014. Appendix F provides velocity measurements and the resulting calculations for discharge for each of the sampled stations. As noted in Section 2.5, there is uncertainty in the velocity

measurements and discharge calculations due to flow reversal possibly caused by ship traffic in the HSC.

### 5.3 Conventional Parameters

TSS and TOC were measured at all stations and DOC was measured at a subset of stations. TSS ranged from 5.00 mg/L at Stations PB-083 and PB-087 to 34.0 mg/L at Station PB-056\_C (mean 13.4 mg/L). TOC ranged from 5.47 mg/L at Station PB-006.2 to 16.2 mg/L at Station PB-081\_A (mean 10.3 mg/L). For DOC, the stations with the lowest and highest concentrations remained the same as TOC. A DOC concentration of 26.3 mg/L was observed at Station PB-081\_A and a concentration of 9.40 mg/L was observed at Station PB-006.2 (mean 14.9 mg/L). A summary of these results can be found in Table 5, and detailed results can be found in Appendix E.

### 5.4 PCB Congeners

PCB congeners were detected in all unfiltered samples. Total PCB concentrations in unfiltered samples ranged from 0.566 nanograms per liter (ng/L) at Station PB-119\_B to 72.1 ng/L at Station PB-070\_B (mean 19.9 ng/L). Dissolved PCB congeners were also measured and detected at all four of the stations sampled in Patrick Bayou. The total dissolved PCB concentrations in filtered samples were always lower than the total concentrations and ranged from 1.27 ng/L at Station PB-101.1 to 16.3 ng/L at Station PB-056\_C (mean 9.85 ng/L). Although the reasons for differences between unfiltered and filtered results are not clear, higher TSS is associated with greater differences between unfiltered and filtered samples and may be a factor contributing to the observed differences. Figure 3 presents the PCB concentration data as a function of distance along the Site. A summary of these results can be found in Table 5, and detailed results can be found in Appendix E.

To determine the effects of sampling from the boat versus the shoreline, a method duplicate sample was taken at Station PB-099. The method duplicate was sampled first from the shoreline, and a total PCB concentration of 3.93 ng/L was detected. The station was then resampled from the boat and had a total PCB concentration of 3.69 ng/L. There was only a 6.15 percent difference in results between the two sampling methods, which suggests that

the method of collection (i.e., boat vs. shoreline) at a specific location did not influence the sample results.

As noted in Section 2.2, two samples were collected during high tide to assess the potential for tidal influence on PCB concentrations and distribution. At Station PB-070\_B, the relative percent difference (RPD) in total PCB concentration between the high tide sample (72.1 ng/L) and low tide sample (67.7 ng/L) is 6.3 percent. The RPD in total PCB concentration between the high tide sample at Station PB-081\_A (14.1 ng/L) and the low tide sample (23.2 ng/L) is 48.9 percent. For comparison, the RPD in total PCB concentrations between the normal and field duplicate samples collected at PB006.2 is 53.7 percent. These results suggest that the concentration of PCBs may not have been significantly affected by tidal stage during this investigation.

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## 6 SUMMARY

In summary, surface water samples were successfully collected and analyzed to assist in characterization of PCBs at the Site and continued development of the Site fate and transport model. The samples were collected to meet the objectives outlined in Section 1.2 and was performed consistent with the SAP with minor deviations, which did not affect the overall usability or representativeness of the data. The results from this investigation will be used to support refinement of the Site chemical fate and transport model being developed for the FS.

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## 7 REFERENCES

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# TABLES

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**Table 1**  
**Surface Water Sample Locations and Analyses**

Station ID	Sample ID	Station Coordinates <sup>a</sup>		PCB Congener (Total)	PCB Congener (Dissolved)	Total Organic Carbon	Dissolved Organic Carbon	Total Suspended Solids
		Easting	Northing					
EF-006.1	EF006.1-1SWMID-140313-N	3201916.502	13831060.06	X		X		X
HSC-14.1	HSC-14.1-1SWMID-140311-N	3201174.507	13837021.25	X		X		X
PB-006.2	PB006.2-1SWMID-140311-N	3202147.786	13836299.79	X	X	X	X	X
PB-006.2	PB006.2-1SWMID-140311-D	3202147.786	13836299.79	X	X	X	X	X
PB-020 <sup>b</sup>	PB020-1SWMID-140313-N	3201304.601	13835636.41	X		X		X
PB-031.1 <sup>b</sup>	PB031.1-1SWMID-140313-N	3201398.814	13834597.35	X		X		X
PB-047.3 <sup>b</sup>	PB047.3-1SWMID-140313-N	3201688.048	13832857.26	X		X		X
PB-056_C <sup>b</sup>	PB056_C-1SWMID-140313-N	3201506.287	13832189.45	X	X	X	X	X
PB-070_B	PB070_B-2SWMID-140314-N	3201105.667	13830874.06	X		X		X
PB-070_B	PB070_B-1SWMID-140314-N	3201105.667	13830874.06	X		X		X
PB-079	PB079-1SWMID-140314-N	3200739.589	13830192.24	X		X		X
PB-081_A	PB081_A-1SWMID-140314-N	3200753.748	13829960.4	X	X	X	X	X
PB-081_A	PB081_A-2SWMID-140315-N	3200753.748	13829960.4	X		X		X
PB-083	PB083-1SWMID-140318-N	3200739.892	13829765.67	X		X		X
PB-083	PB083-1SWMID-140318-D	3200739.892	13829765.67	X		X		X
PB-085	PB085-1SWMID-140314-N	3200716.688	13829591.43	X		X		X
PB-087	PB087-1SWMID-140318-N	3200888.515	13829475.11	X		X		X
PB-089	PB089-1SWMID-140314-N	3200952.521	13829302.2	X		X		X
PB-091	PB091-1SWMID-140318-N	3200940.118	13829124.52	X		X		X
PB-093_A	PB093_A-1SWMID-140318-N	3200967.7	13828915.14	X		X		X
PB-095	PB095-1SWMID-140318-N	3201056.962	13828738.31	X		X		X
PB-097_A	PB097_A-1SWMID-140314-N	3201111.781	13828556.69	X		X		X
PB-099	PB099-1SWMID-140319-MD	3201138.74	13828426.23	X		X		X
PB-099	PB099-1SWMID-140319-N	3201139.939	13828443.85	X		X		X
PB-101.1	PB-101.1-1SWMID-140319-N	3201247.135	13828263.24	X	X	X	X	X
PB-119_B	PB-119_B-1SWMID-140313-N	3201529.198	13826349.57	X		X		X

Notes:

a - Station Coordinates are State Plane coordinates based on North American Datum (NAD) 83 for Texas, South Central (feet).

b - Sample collected from shoreline

PCB = polychlorinated biphenyl



**Table 2**  
**Rainfall Events and Sample Collection Dates**

<b>Date</b>	<b>Rainfall (inches)<sup>a</sup></b>	<b>Sample Collection Occurred</b>
3/11/2014	0.04	X
3/12/2014	0.00	
3/13/2014	0.00	X
3/14/2014	0.00	X
3/15/2014	0.00	
3/16/2014	0.64	
3/17/2014	0.24	
3/18/2014	0.00	X
3/19/2014	0.00	X

Note:

a - Data from Harris County Flood Control District rain gauge 1420 (N100 Carpenters Bayou @ I-10). Available from:

<http://www.harriscountyfws.org/GageDetail/Index/1420?R=1>

**Table 3**  
**Water Quality Measurements**

Station ID	Sample ID	Water Depth (ft) <sup>a</sup>	Sample Depth (ft)	pH	Temperature (°C)	ORP (mV) <sup>b</sup>	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)
EF-006.1	EF006.1-1SWMID-140313-N	2	1	7.93	20.4	not measured	0.939	10.35
HSC-14.1	HSC-14.1-1SWMID-140311-N	44.6	22	7.5	15	160	17.04	83.1 (%) <sup>c</sup>
PB-006.2	PB006.2-1SWMID-140311-N	2.8	1.4	7.59	17.23	151.8	50.1	9.14
PB-020 <sup>d</sup>	PB020-1SWMID-140313-N	1	0.8	8.03	19.22	not measured	15.86	11.58
PB-031.1 <sup>d</sup>	PB031.1-1SWMID-140313-N	2	1	7.71	18.55	not measured	16.24	9.71
PB-047.3 <sup>d</sup>	PB047.3-1SWMID-140313-N	2	1	7.74	19.79	169	17.77	11.72
PB-056_C <sup>d</sup>	PB056_C-1SWMID-140313-N	2.5	1.8	8.2	20.37	143.3	13.19	13.91
PB-070_B	PB070_B-2SWMID-140314-N	3.4	1.7	7.6	17.28	167.3	13.19	6.96
PB-070_B	PB070_B-1SWMID-140314-N	2.9	1.5	7.54	19.93	152	10.56	110.3 (%) <sup>c</sup>
PB-079	PB079-1SWMID-140314-N	5.2	2.6	7.45	20.8	135.1	9.887	101.3 (%) <sup>c</sup>
PB-081_A	PB081_A-1SWMID-140314-N	4	2	7.49	21.42	112.4	9.218	9.12
PB-081_A	PB081_A-2SWMID-140315-N	4.1	2	7.43	20.51	111.5	8.664	5.88
PB-083	PB083-1SWMID-140318-N	4.5	2.2	7.73	19.95	200.1	8.39	9.68
PB-083	PB083-1SWMID-140318-D	4.5	2.2	7.73	19.95	200.1	8.39	9.68
PB-085	PB085-1SWMID-140314-N	3.7	1.8	7.58	21.88	62.2	7.982	10.44
PB-087	PB087-1SWMID-140318-N	4.4	2.2	7.85	21.09	26.1	7.88	11.4
PB-089	PB089-1SWMID-140314-N	2	1	7.63	21.87	86.7	6.419	11.15
PB-091	PB091-1SWMID-140318-N	3.5	1.7	7.91	22.71	123	6.465	9.75
PB-093_A	PB093_A-1SWMID-140318-N	2.1	1	7.89	22.67	164.9	7.234	9.36
PB-095	PB095-1SWMID-140318-N	1.7	0.9	7.86	22.01	139.6	6.009	8.8
PB-097_A	PB097_A-1SWMID-140314-N	4	2	7.67	21.06	37.9	4.385	9.96
PB-099	PB099-1SWMID-140319-N	1.3	0.9	7.74	22.35	30	8.23	7.38
PB-101.1	PB-101.1-1SWMID-140319-N	3.5	1.7	7.77	22.2	45.5	7.037	6.79
PB-119_B	PB-119_B-1SWMID-140313-N	1.5	1	7.39	20.29	not measured	0.738	7

Notes:

ft - foot

°C - degrees Celsius

mV - millivolt

µS/cm - millisiemen per centimeter

mg/L - milligram per liter

a - At most stations, depth was measured using lead line and measuring tape from a boat. At stations PB031.1, PB047.3, PB056\_C, PB099, and PB-101.1, depth was estimated using plastic pole due to inaccessibility for boats.

b - ORP was not measured at some stations due to instrument issue.

c - Dissolved oxygen recorded as percent, not mg/L.

d - Samples were collected from shoreline

**Table 4**  
**Discharge Measurements**

Station ID	Date	Time	Discharge (ft <sup>3</sup> /s) <sup>a</sup>
PB081_A	3/14/2014	16:00	14
PB087	3/14/2014	15:40	51
PB087	3/18/2014	16:15	8.4
PB095	3/18/2014	18:00	10
PB097_A	3/15/2014	17:56	14
PB097_A	3/19/2014	16:00	11
PB099	3/19/2014	18:18	3.9

Notes:

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

ft<sup>3</sup>/s - cubic foot per second

**Table 5  
Summary of Analytical Results**

	Number of Results <sup>a</sup>	Number of Detects	Number of Non-Detects	Minimum Detected Result	Maximum Detected Result	Average Detected Result
<b>Conventional Parameters (mg/L)</b>						
Total suspended solids	23	23	0	5.00	34.0	13.4
Dissolved organic carbon	4	4	0	9.40	26.3	14.9
Total organic carbon	23	23	0	5.47	16.2	10.3
<b>PCB Congeners (ng/L)</b>						
Total PCB Congener <sup>b</sup> (U = 1/2)	23	23	0	0.566	72.1	19.9
<b>PCB Congeners, Dissolved (ng/L)</b>						
Total PCB Congener <sup>b</sup> (U = 1/2)	4	4	0	1.27	16.3	9.85

Notes:

mg/L - milligrams per liter

ng/L - nanograms per liter

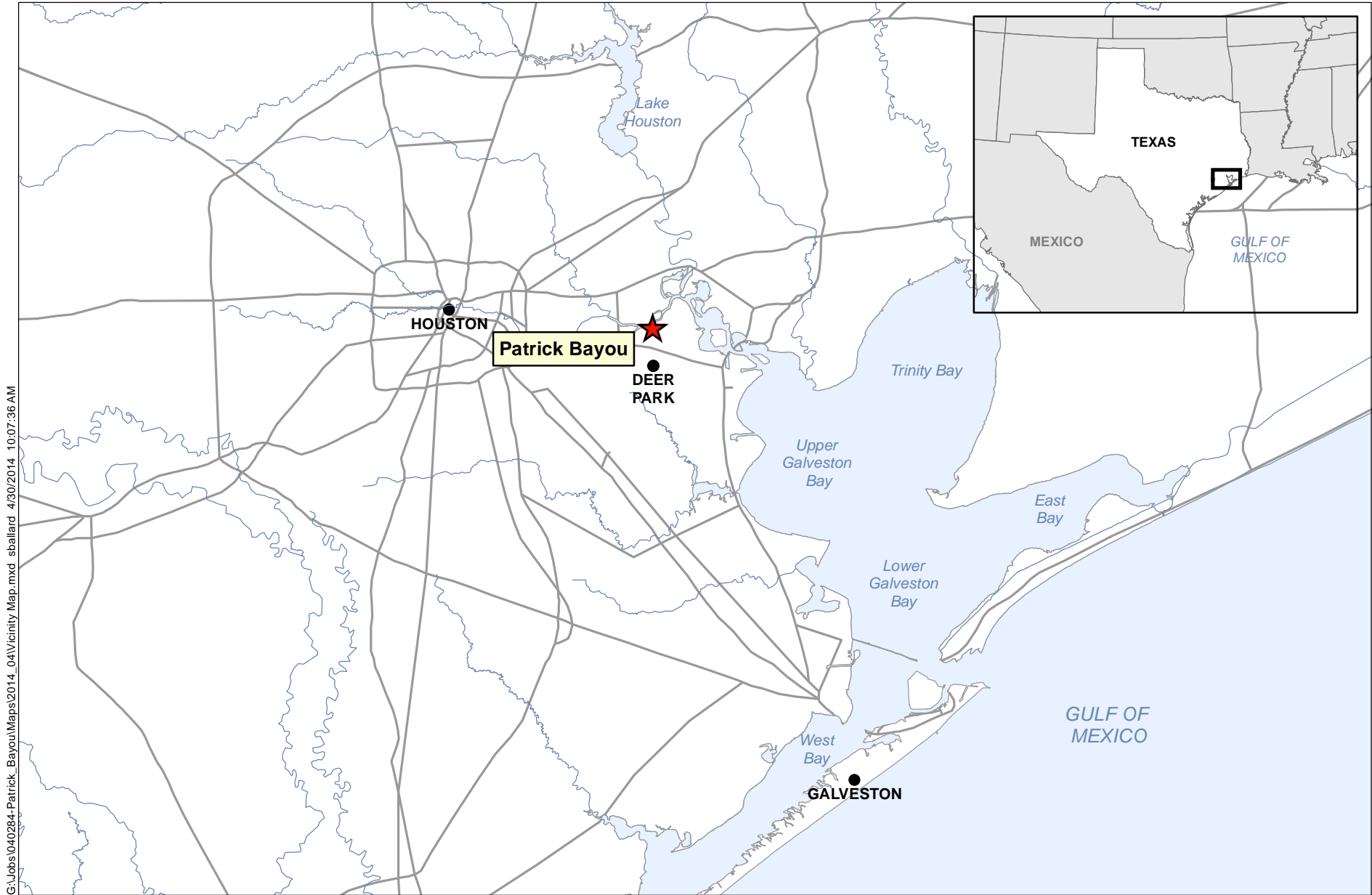
PCB - polychlorinated biphenyls

a - Field duplicates are excluded from statistics

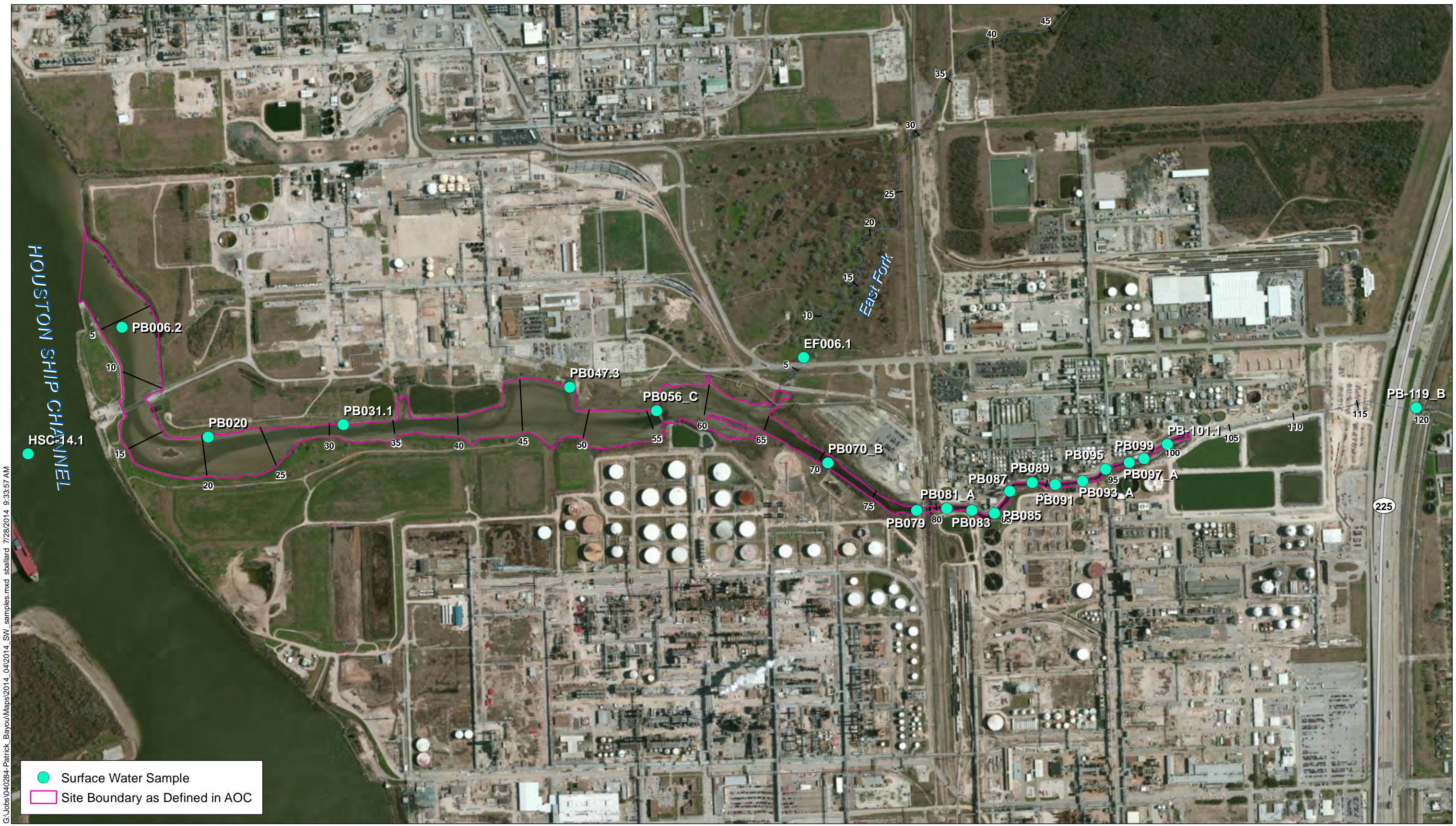
b - Total PCB congeners is the sum of all PCB congeners calculated as the sum of all detected results and half of the estimated detection limit of undetected results (U=1/2)

# FIGURES

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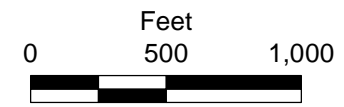
**Figure 1**  
 Patrick Bayou Superfund Site Vicinity Map  
 Supplemental Surface Water Sampling Data Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



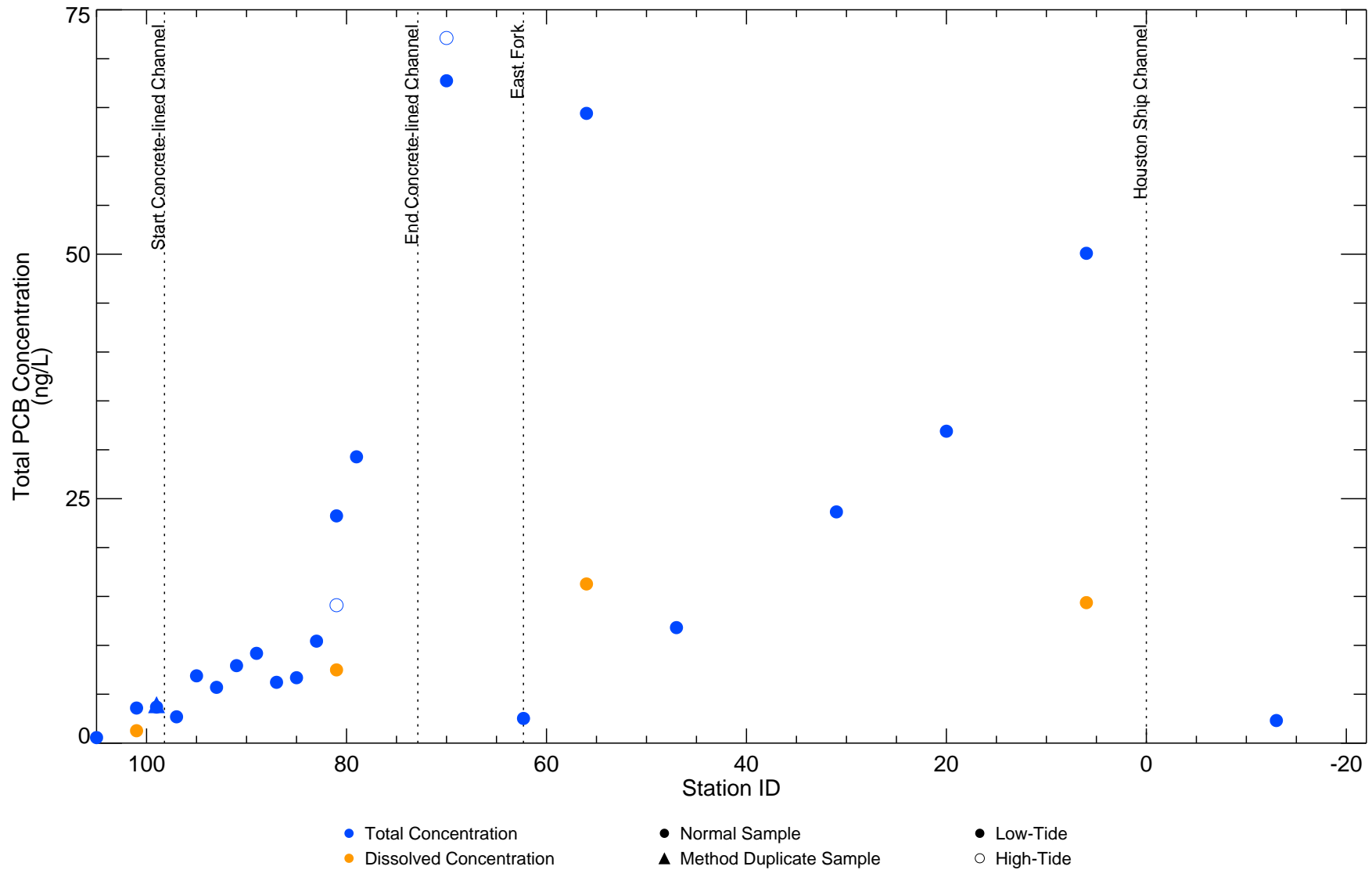
G:\Jobs\040284-Patrick Bayou\Maps\2014\_04\2014\_SW\_samples.mxd sbillard 7/28/2014 9:33:57 AM

● Surface Water Sample  
 Site Boundary as Defined in AOC

**NOTES:**  
 Station numbers from Patrick Bayou PSCR indicate length along channel in hundreds of feet.  
 Stations PB020, PB031.1, PB047.3 and PB056\_C were collected from the shoreline.  
 Aerial imagery: Microsoft Bing Maps, copyright 2010



**Figure 2**  
 Surface Water Sampling Locations  
 Supplemental Surface Water Sampling Data Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



**Figure 3**

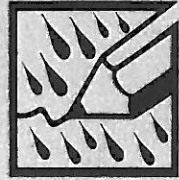
Spatial Distribution of Total PCB Concentration in Surface Water  
 Supplemental Surface Water Sampling Data Report  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





APPENDIX A  
FIELD LOGBOOK

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*"Rite in the Rain"*®

ALL-WEATHER

**FIELD**

No. 351

Patrick Bayou

040284-01.08

3/11/14 - 3/19/14

Task 4

3/11/14

Field Team

S Best (AQ)

H Samaha (AQ)

J Kase (AQ) - Field Lead

B Souter (BESI)

PPE: Level D +

PFD

1000 Arrive @ River Terrace boat  
ramp1030 Conduct H<sub>2</sub>S tailgate

- Review H<sub>2</sub>S plan and signoff
- slips/falls
- boat hazards
- chemical hazards
- biological hazards
- heat exhaustion

1110 Leave boat ramp enroute to  
HSC

1150 Arrive @ HSC-14.1

- collect sample HSC-14.1-15WMIID-140311-N
- collect water quality parameters

1230 Arrive @ PB006.2

- collect sample PB006.2-15WMIID-140311-N
- PB006.2-15WMIID-140311-D

- collect water quality parameters

ML

3/11/14

1330 Complete sample collection;  
return to boat landing

1350 Arrive @ boat landing

- trailer boat and travel to  
Site (Oxy parking lot)

- launch small boat

- BS and SB set out PVC and  
sample tubing @ PB020, PB031.1  
PB047.3 and PB056-C- HS and JK doing sample packing  
and COC

1730 Complete setting sample locations

1745 End work day, leave site

1815 Drop samples @ FedEx

ML

3/12/14

## Field Team

Holly Samaha (HS) - Anchor QEA

Sam Best (SB) - Anchor QEA

Jason Kase (JK) - Anchor QEA; Field Lead

Neil Henthorne (NH) - Benchmark Ecological

0800 Arrive onsite

Weather: 50-60°F, clear, strong/sustained wind

Tailgate H: S meeting

PPE: Level D + PFD for boat operations

Field preparation and sample kit prep

1110 Notify Oxy POC that we are ready to sample; arrive at gate

1145 Arrive @ PBO20

collect water sample PBO20-15WM10-140312-N

~~collect water quality parameters~~ <sup>Mr</sup> <sub>3/12/14</sub>

1240 Arrive @ PBO30.1

collect water sample PBO30.1-15WM10-140512-N

collect water quality parameters

1305 complete sampling from Oxy facility shoreline and travel to gate

M

3/12/14

1350 Stopped work for day due to low water and wind driven turbidity.

Previous samples from PBO20 and PBO30.1 discarded.

Sampling will resume tomorrow weather permitting

1400 End work day; leave Site

M

3/13/14

Field Team

Holly Samaha

San Best

Jason Kase (Team Lead)

Neil Hawthorne (Benchmark Ecological)

Anchor QEA

PPE - Level D + PFDs when boating

0900 Arrive at Site

- Weather: clear, lt. north wind, 60-70°F

- Tide: high tide @ 0700; water level still extremely low due to wind

- Water visibly more clear / less turbid than 3/12/14

- Conducted tailgate H<sub>2</sub>S

1200 Arrived at Oxy gate, badged through, and traveled to PB020

1230 Conducted sampling @ PB020 from shoreline

Collected sample PB020-ISWM10-140313-N

Collected water quality parameters

1300 Complete work @ PB020. Travel

N to PB031.1

3/13/14

Collect sample PB031.1-ISWM10-140313-N

Collect water quality parameters

1400 Badge out of Oxy gate and travel to PB047.3

- moved sample location approximately 30 m upstream (south) due to low water (40.5 ft) at target location

- collect sample PB047.3-ISWM10-140313-N

- collect water quality parameters

1420 SB and NH enroute to EFO06.1 and PB119.B to collect samples

1445 HS and JK enroute to PB056.C

- collect EB-1 and FB-1 prior to sample collection

- collect PB056.C-ISWM10-140313-N

- collect surface water quality parameters

1630 Complete sampling; pack and complete COC

1730 End work day; leave site

M

3/14/14

## Field Team

Jason Kase - Field Lead - AQ

Holly Samaha - AQ

San Best - AQ

Neil Hathorne - BESI

Brett Souter - BESI

Matthew Jay - BESI

0800 Arrive on Site

Weather: clear, lt ESE wind; 50-70°F

PPE: Level D + PFD

- Conduct H's tailgate

- Prepare for sampling; launch boat

0900 JK and BS enroute to PBO70-B

collect PBO70-B-2SWMID-140314-N

(high tide sample)

collect WQ parameters <sup>3/14/14</sup>

1000 JK and BS return to Oxy parking lot (staging area)

0920 SB, NH, MJ take small pontoon boat to launch at train bridge at downstream end of sunite channel

N

3/14/14

1300 HS and BS take small boat to collect samples @ PBO70-B and PBO79

collect sample PBO70-B-15W MID-140314-N

collect water quality

collect PBO79-15W MID-140314-N

collect water quality

1430 Return to staging area

1445 Travel to PBO81-A

- move equipment to trestle area and launch boat

1500 Arrive @ PBO81-A

Note: - SB, JK, BS on boat, HS shore water visible flow

⊙ - complete PBO81-A-15W MID-140314-N

⊙ - complete WQ measurement

during supling - complete velocity measurement

1630 Complete measurements/sampling

1640 Arrive @ PBO85

complete sampling

PBO85-15W MID-140314-N

collect WQ parameters

1708 Arrive @ PBO89

collect PBO89-15W MID-140314-N

collect WQ parameters

N

3/14/14

\* visible flow reversal in channel  
observed during sampling

1730 Complete sampling; enroute  
to PB101.1

1740 Arrive @ PB097-A

- could not reach PB101.1 due to  
obstruction in water

- collect sample PB097-A-15UM10-140314-U

- collect WQ @ <sup>stinky</sup> parameters

Note: collected dissolved PCB  
and DOC @ PB097-A due  
to inability to reach PB101.1

1810 enroute to PB090/train  
trestle to offload samples

1830 enroute to Oxy parking lot  
to process samples

1930 End work day; leave Site

*MR*

3/15/14

0900 Arrive @ Site

Field team

Jason Kase - AQ - Lead

Sam Best - AQ

Holly Sanchez - AQ

Brett Sauter - BEST

Weather:

Cloudy, lt drizzle, 60-70°F

ESE wind

PPE: Level D + PFD

- conduct H<sup>2</sup>S tailgate

1000 Arrive @ PB091-A to  
collect high tide sample

1120 Set up anchor points  
for discharge measurements

1200 Break for lunch

light rainfall; intermittent

1300 Return to Site

light, continuous rainfall

lightning observed at 1305; 30  
minute stand down

1340 Resume work

1405 Arrive @ PB093

collect sample PB093-15UM10-140315-N

collect WQ parameters *MR*

12 3/15/14

- continuous light rain during sampling
- visible increase in turbidity
- no visible change in flow

1435 Arrive @ PBO87

- visible increase in flow observed; may be ship wake; noted after a few minutes
- increase in floating leaf litter observed
- visible sheen observed

1525 No rain

1535 Collect discharge @ PBO87

1559 Enroute to PBO91

1615 Arrive @ PBO93-A

- skipped PBO91 due to loss in GPS signal
- Weather: no rain, increasing SE wind
- visible drop in turbidity

~~1639 @ C~~

- collect PBO93-A-15UM10-140315-N
- collect WQ parameters

ML

3/15/14

13

1639 Enroute to PBO95

1645 On station @ PBO95

light, intermittent rain

1711 AM

collect PBO95-15UM10-140315-N

collect PBO95-15UM10-140315-D

collect WQ parameters

1710 Enroute to PBO99

1720 ~~1525~~ Arrive @ PBO99

light rain, moderate flow

collect sample:

PBO99-15UM10-140315-D

1743 collect WQ parameters

1543 Complete sampling

Enroute to PBO97 for velocity measurement

1750 collecting @ PBO97

1810 done w/ PBO97

velocity measurement

1840 End work day; leave site

ML



3/16/14

- No field work; rain delay

3/17/14

- No field work; rain delay

3/18/14

Samples collected 3/15/14 discarded  
due to wet weather conditions

Locations to be sampled:

PB083

PB087

PB091

PB093\_A

PB095

PB099

PB101

+ FD

+ 2 MD

1200 Arrive on-site

Field Team

Jason Kase - AQ - Field Lead

Sam Best - AQ

Holly Samaha - AQ

Brett Soutar - BES1

Weather: clear, S wind, 68°F

PPE: Level D + PDF

M

3/18/14

- Conduct M's meetings

- Mobilize equipment for sampling  
1500 Enroute to PB083

On boat JK

HS

BS

Shorewatcher 513

1510 On station @ PB083

- collect samples

PB083-15WM10-140316-N

PB083-15WM10-140316-D

- collect WQ parameters

1540 On station @ PB087

- collect sample PB087-15WM10-140316-N

- collect WQ parameters

- conduct discharge measurement

1655 Arrive on station @ PB091

- collect sample PB091-15WM10-140316-N

- collect WQ parameters

- apparent flow reversal observed  
during sampling

1724 Arrive @ PB093\_A

collect sample PB093\_A-15WM10-140316

collect WQ sample parameters

M  
3/18/14

M

1755

Arrive @ PB095

- collect discharge measurement
- visible flow change during measurement

1830 Complete discharge @ PB095

1847 Collect sample PB095-BUMID-140316-N

Collect WQ parameters

1905 Return to launch area;  
prepare samples for shipment

1930 End work day; leave site

ML

3/19/14

1400 Arrive @ site

- Field Team

Holly Swaha - AQ

Sam Best - AQ

Jason Kase - AQ - Field Lead

Brett Souter - BES1

- Weather: cloudy, S wind,  
~ 70°F

- PPE - Goggles + PDF

- prep for sampling

- conduct H<sub>2</sub>S tailgate1540 Load sample vessel and  
enroute to PB097

1550 On station @ PB097-A

- conduct discharge measurement

1630 Disembark boat downstream  
at PB099 to collect shoreline  
measurement (method duplicate)  
at PB0991640 Set up sampling tripod at  
PB099 (station moved ~ 50 ft  
downstream at target due to  
shoreline access restriction  
(steep bank))

ML

3/19/14

collect method duplicate

PB099-15WM10-140319-MD

-apparent flow reversal during  
sample collection1655 Complete shoreline method  
duplicate. Return to boat

1701 Arrive @ PB099

-collect sample PB099-15WM10-140319-N

-collect WQ parameters

1730 Arrive @ PB101.1; sampled  
from shoreline

collect sample PB101.1-15WM10-140319-N

collect WQ parameters

1820 Conduct discharge measurement  
@ PB0991850 Return to launch / train  
trestle

1900 Pack samples for shipment

1940 End weekday. Leave Site

NW

# APPENDIX B

## DATA SHEETS

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Flow reversal observed prior to measurements

**STREAM FLOW (DISCHARGE) MEASUREMENT FORM**

Stream Patrick Bayou Date 3/19/14

Station Description PB099

Time Begin 1818 Time Ended 1834 Meter Type Swotho

Observers JK HS Stream Width<sup>1</sup> 23 Section Width 2.3

Observations

Section Midpoint (ft)(m)	Midpoint Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> ft-m-cm		Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
				At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
①	24.7	0.8	0.5	0.06			
②	23.7	22.2	1.4	0.9	0.47		
③	21.4	19.9	1.7	1.0	0.13	← flow reversal	
④	19.1	17.6	1.5	0.9	0.26	downstream flow	
⑤	16.8	15.3	1.3	0.8	0.29		
⑥	14.5	13.0	1.2	0.8	0.0	← flow reversal	
⑦	12.2	10.7	1.2	0.8	0.0	← flow reversal / no flow	
⑧	9.9	8.4	1.3	0.8	0.01		
⑨	7.6	6.1	1.2	0.8	0.0		
⑩	5.3	3.8	0.1	NM			

NM = no measurement

Total Discharge (ΣQ)(ft<sup>3</sup>/s)

<sup>1</sup>Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.

<sup>2</sup>Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth if waters > 2.5 ft. deep.

Handwritten calculations for total discharge:

$$\begin{array}{r}
 1.4 \\
 6 \\
 \hline
 7.4
 \end{array}
 \quad
 \begin{array}{r}
 4 \\
 1.7 \\
 6 \\
 \hline
 10.2
 \end{array}
 \quad
 \begin{array}{r}
 7.15 \\
 6 \\
 \hline
 9.0
 \end{array}
 \quad
 \begin{array}{r}
 13 \\
 6 \\
 \hline
 7.8
 \end{array}$$

13  
1553 → visible change in flow during <sup>prior to</sup> measurement.

**STREAM FLOW (DISCHARGE) MEASUREMENT FORM**

Stream

Date

3/19/14

Station Description

PB097-A

Time Begin

1600

Time Ended

1619

Meter Type

Swaffr

Observers

JK, HS

Stream Width<sup>1</sup>

26-1=25

Section Width

2.5

Observations

Section Midpoint (ft)(m)	Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> ft-m-cm	Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
① 1+1.25=2.25	1.7	1.0	0.06			
② 4.75	2.4	1.4	0.24			
		visible flows - reverse flow				
③ 7.25	2.8	1.7	0			
		no apparent flows				
④ 9.75	3.2	1.9	0.38			
		Δ in apparent flow - downstream flow				
⑤ 12.25	3.7	2.2	0.23			
		downstream flow				
⑥ 14.75	3.0	1.8	0.06			
		downstream flow				
⑦ 17.25	3.1	1.9	0.19			
		downstream flow				
⑧ 19.75	2.9	1.8	0.22			
		downstream flow				
⑨ 22.25	3.4	2.0	0.03 <sup>23</sup> / 0.10			
		flow reversal observed				
⑩ 24.75	to shallow	for measurement (	0.1 ft)			

Total Discharge (ΣQ)(ft<sup>3</sup>/s)

<sup>1</sup>Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.

<sup>2</sup>Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth in waters > 2.5 ft. deep.

**STREAM FLOW (DISCHARGE) MEASUREMENT FORM**

Stream Patrick Bayou Date 3/14/14  
 Station Description PR087  
 Time Begin 1615 Time Ended 1650 Meter Type swath  
 Observers JLC, HS Stream Width<sup>1</sup> ~~34~~ 33 Section Width 3.25 ft

Observations 33.5 - 1 = 32.5 ft

Section Midpoint (ft)(m)	Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> ft-m-cm	Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
① 1.63 <small>31.9</small>	2.3	<del>0.09</del> 1.4	0.09			
② 4.88 <small>26.6</small>	3.4	2.0	0.09			
③ 8.13 <small>25.4</small>	4.4	2.6	0.04			
④ 11.36 <small>22.1</small>	5.5	3.3	0.0			
⑤ 14.63 <small>16.9</small>	6.3	3.8	<del>0.33</del> 0.03			
⑥ 17.88 <small>15.6</small>	7.1	4.3	0.02			
⑦ 21.13 <small>12.4</small>	7.1	4.3	0.06			
⑧ 24.38 <small>9.1</small>	7.5	4.5	0.11			
⑨ 27.63 <small>5.9</small>	6.8	4.1	0.01			
⑩ 30.86 <small>2.6</small>	4.8	2.9	0.4/0.54			

Total Discharge (ΣQ)(ft<sup>3</sup>/s)

<sup>1</sup>Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.

<sup>2</sup>Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth in waters > 2.5 ft. deep.

503-670-1108; 14

### STREAM FLOW (DISCHARGE) MEASUREMENT FORM

Stream Patrick Bayou Date 3/18/14  
 Station Description PB095  
 Time Begin 1800 Time Ended 1820 Meter Type Swafflo  
 Observers JL, HS Stream Width<sup>1</sup> 26-1=25 Section Width 2.5

**Observations**

Section Midpoint (ft)(m)	Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> ft-m-cm	Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
① 1.3 2.3	2.2	1.3	0.07			
② 3.8 4.8	2.5	1.5	0.45	0.01*		
③ 6.3 7.3	2.9	1.8	0.0	0.11*		
④ 8.8 9.8	3.3	2.0	0.0	0.36*		
⑤ 11.3 12.3	4.0	2.4	0.25	0.02*		
⑥ 13.8 14.8	3.7	2.2	0.28			
⑦ 16.3 17.3	3.4	2.0	0.13			
⑧ 18.8 19.8	3.5	2.1	0.0	0.34*		
⑨ 21.3 22.3	3.8	2.3	0.08			
⑩ 23.4 24.4	1.1	0.7	0.0			

Total Discharge (ΣQ)(ft<sup>3</sup>/s)

<sup>1</sup>Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.  
<sup>2</sup>Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth in waters > 2.5 ft. deep.

\* Second measurement checks after all 10 obs made

$$\begin{array}{r} 3.6 \\ + 1.6 \\ \hline 2.0 \end{array}$$

$$\begin{array}{r} 3.5 \\ + 1.6 \\ \hline 2.1 \end{array}$$

$$\begin{array}{r} 1.1 \\ + 1.0 \\ \hline 2.1 \end{array}$$



Note: reduced number of sections to 10 and one flow observation @ 0.6 depth per section due to time constraints

STREAM FLOW (DISCHARGE) MEASUREMENT FORM

Stream Patrick Bayou granite channel Date 3/14/14  
 Station Description first / downstream station in granite channel (PBOE1-A)  
 Time Begin 1600 Time Ended 1630 Meter Type Swath  
 Observers JK/SB Stream Width<sup>1</sup> 39ft Section Width 4.0ft  
 Observations N 3289698.12 E 295233.22

Section Midpoint (ft)(m)	Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> ft-m-cm	Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
① 2 9	3.2	1.9	0	0	<del>7.6</del> 12.8	0
② 6 13 11	2.9	1.7	0	0	11.6	0
③ 10 17 15	3.2	1.9	<del>0.5</del> 0.05	0.05	12.6	0.64
④ 14 21 18	3.0	1.8	0.43	0.43	12.0	5.16
⑤ 18 25 17	3.6	<del>1.8</del> 2.2	0.27	0.27	14.4	3.888
⑥ 22 29	4.1	2.5	0.25	0.25	16.4	4.1
⑦ 26 33	4.3	2.6	0	0	17.2	0
⑧ 30 37	4.6	2.8	0.03	0.03	18.4	6.552
⑨ 34 41	3.8	2.3	0	0	15.2	0
⑩ 38 45	NM					

NM = Not Measured

Total Discharge ( $\Sigma Q$ )(ft<sup>3</sup>/s)

14.34

Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.

Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth in waters > 2.5 ft. deep.

Note: apparent flow change visible during measurement flow changed from slow to moderate downstream flow; potential ship traffic in HSC suspected

STREAM FLOW (DISCHARGE) MEASUREMENT FORM

3/15/14

Stream Park Creek Canyon

Date 3/19/15

Station Description PBC097

Time Begin 1756

Time Ended 1807

Meter Type Swothos

Observers SB, JK

Stream Width<sup>1</sup> 26-7=24

Section Width 2.4

Observations

Section Midpoint (ft)(m)	Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> (ft-m-cm)	Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
① 1.2 3.2	2.4	1.6	0.05			
② 3.6 5.6	3.0	1.6	0			
③ 6.0 8.0	3.4	1.6	0			
④ 8.4 10.4	3.9	1.6	0.02			
⑤ 10.8 12.6	4.1	2.0	0.19			
⑥ 13.2 15.2	3.9	2.0	0.40			
⑦ 15.6 17.6	3.0	2.0	0.32			
⑧ 18.0 20.0	3.0	2.0	0.22			
⑨ 20.4 22.4	4.0	2.0	0.13			
⑩ 22.8 24.8	3.5	2.0	0.25			

Total Discharge (ΣQ)(ft<sup>3</sup>/s)

Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.  
Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth in waters > 2.5 ft. deep.

visibly slower flow during measurement than immediately preceding for cross-sections 1-5; x-section apparent increase during sections 6-10; drop visible 292

### STREAM FLOW (DISCHARGE) MEASUREMENT FORM

Stream Patricide Bayou Date 3/14/15  
 Station Description PB087  
 Time Begin 1540 Time Ended 1555 Meter Type Swatter  
 Observers S Best, JKase Stream Width<sup>1</sup> 33-1=32 Section Width 3.2

Observations

Section Midpoint (ft)(m)	Section Depth (ft)(m)(cm)	Observational Depth <sup>2</sup> (ft-m-cm)	Velocity		Area W x D (ft <sup>2</sup> ) (m <sup>2</sup> )	Flow (Q) V x A (m <sup>3</sup> /s) (ft <sup>3</sup> )
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)		
① 1.6 3 +12.6	1.9	1.5	0			
② 4.8 5.8	2.9	1.5	0.4			
③ 8.0 9.0	4.1	1.5	0.13			
④ 11.2 12.2	4.9	1.5 2.0	0.25			
⑤ 14.4 15.4	4.5	2.0	0.26			
⑥ 17.6 18.6	6.5	2.0	0.35			
⑦ 20.8 21.8	7.0	2.0	0.25			
⑧ 24.0 25	7.0	2.0	0.35			
⑨ 27.2 28.2	6.3	2.0	0.45			
⑩ 30.4 31.4	3.5	2.0	0.69			

Total Discharge ( $\Sigma Q$ )(ft<sup>3</sup>/s) \_\_\_\_\_

Make a minimum of 10 measurements when the total width is > 5.0 ft., 20 measurements preferred.  
 Measure at 60% of depth from surface where < 2.5 ft. deep. Measure at 20% and 80% of depth in waters > 2.5 ft. deep.

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB093-A

Sample ID: PB093-A-15WMI0-140318-N

Sampling Crew: JK, SB, HS

Weather: clear, S. wind @ 10-15 knts  
~65°F

Subcontractor(s): BGS1

Date: 3/19/14

Time: 1737

Tide: low tide

Station Coordinates: 32896 3289366.62  
M 3/19/14 295276.60

Sampling Method: peristaltic pump

Parameter	Units	Result
Water Depth	f+	2.1
Sample Depth	f+	1.0
pH	SU	7.69
Temperature	°C	22.67
ORP	mV	164.9
Conductivity	ms/cm	7.234
Dissolved Oxygen	mg/L	9.36

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold prior to pumping  
2 minute purge at tubing prior to sampling  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB095-15WMI0-

Sample ID: PB095-15WMI0-140318-N

Sampling Crew: JK, HS, BS

Weather: clear, S wind @ 10-15 knts  
-65°F

Subcontractor(s): BESI

Date: 3/16/14

Time: 1847

Tide: low/rising

Station Coordinates: 3289310.33 N

Sampling Method: peristaltic pump

295300.47 E

Parameter	Units	Result
Water Depth	f+	1.7
Sample Depth	f+	0.9
pH	SV	7.86
Temperature	°C	22.01
ORP	mV	139.6
Conductivity	ms/cm	6.009
Dissolved Oxygen	ms/L	8.80

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold prior to pumping  
2 minute purge prior to sampling  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB083

Sample ID: PB083-15WM1D-140318-N / PB083-15WM1D-140318-D

Sampling Crew: JK, BS, HS

Weather: clear, S wind @ 10-15 knots  
-65°F

Subcontractor(s): BESI

Date: 3/16/14

Time: 1523

Tide: low / dropping

Station Coordinates: 3289628.26 W  
295222.41 E

Sampling Method: peristaltic from boat

Parameter	Units	Result
Water Depth	<u>ft</u>	<u>4.5</u>
Sample Depth	<u>ft</u>	<u>2.2</u>
pH	<u>SU</u>	<u>7.73</u>
Temperature	<u>°C</u>	<u>19.95</u>
ORP	<u>mV</u>	<u>20.1 mV</u>
Conductivity	<u>ms/cm</u>	<u>8.390</u>
Dissolved Oxygen	<u>ms/L</u>	<u>9.68</u>

Dissolved Sample Collected: YES NO

Velocity Measurements Taken: YES NO

Comments: 10 min delay before pumping  
2 min purge prior to sampling  
sampled from boat  
collected duplicate  
field

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB067

Sample ID: PB067-15WMI0-140318-N

Sampling Crew: JK, BS, HS

Weather: clear, S wind @ ~10 knt  
~65°F

Subcontractor(s): BESI

Date: 3/16/14

Time: 1553

Tide: low/falling

Station Coordinates: 3299537.28 N

Sampling Method: peristaltic from boat

295262.22 E

Parameter	Units	Result
Water Depth	ft	4.4
Sample Depth	ft	2.2
pH	su	7.85
Temperature	°C	21.09
ORP	mv	26.1
Conductivity	ms/cm	7.860
Dissolved Oxygen	ms/L	11.4

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments:

10 min delay before pumping  
2 min purge at tubing  
collected from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB091

Sample ID: PB091-15WMI0-140318-N

Sampling Crew: JK, HS, BS

Weather: clear, S wind @ 10 knots

Subcontractor(s): BESI

65°F

Date: 3/18/14

Time: 1708

Tide: Falling flow

Station Coordinates: 3289428.54

Sampling Method: peristaltic

295269.88

Parameter	Units	Result
Water Depth	<u>ft</u>	<u>3.5</u>
Sample Depth	<u>ft</u>	<u>1.7</u>
pH	<u>SU</u>	<u>7.91</u>
Temperature	<u>°C</u>	<u>22.71</u>
ORP	<u>mV</u>	<u>1230</u>
Conductivity	<u>µS/cm</u>	<u>6.465</u>
Dissolved Oxygen	<u>mg/L</u>	<u>9.75</u>

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 min hold prior to sampling 3/18/14  
2 min purge of tubing prior to sampling  
sampled from boat



# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB099

Sample ID: PB099-15W/MID-140319-MD

Sampling Crew: JK, HS, BS

Weather: cloudy, Swind  
~70°F

Subcontractor(s): BESI

Date: 3/19/14

Time: 1645 on 3/19/14

Tide: low / falling

Station Coordinates: N 3225 3289215.42

Sampling Method: peristaltic from  
Shoreline

Parameter	Units	Result
Water Depth	ft	1.5 estimated
Sample Depth	ft	1.0 estimated
pH	-	NM
Temperature	-	NM
ORP	-	NM
Conductivity	-	NM
Dissolved Oxygen	-	NM

Dissolved Sample Collected: YES  NO

NM - not measured

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold after sample disposal placement  
2 minute purge prior to final sampling  
sampled from shoreline

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB099

Sample ID: PB099-15WM1D-140319-N

Sampling Crew: JL, HS, BS

Weather: cloudy, light N wind  
~70°F

Subcontractor(s): BFS

Date: 3/19/14

Time: 1713

Tide: falling / low

Station Coordinates: E 295323.15

Sampling Method: peristaltic from boat

N 3289220.53

Parameter	Units	Result
Water Depth	ft	1.3
Sample Depth	ft	0.9
pH	SU	7.74
Temperature	°C	22.35
ORP	mV	30.0
Conductivity	ms/cm	8.230
Dissolved Oxygen	ms/L	7.38

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold prior to pumping  
2 minute purge prior to sampling  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB-101.1

Sample ID: PB101.1-15WMIID-140319-N

Sampling Crew: HS, JK, BS

Weather: partly cloudy

Subcontractor(s): BESI

light N wind

Date: 3/19/14

~70°F

Time: 1745

Tide: low/falling

Station Coordinates: N 3289163.25

Sampling Method: peristaltic from shore

E 295352.02

Parameter	Units	Result
Water Depth	ft	3.5 estimated
Sample Depth	ft	1.7 estimated
pH	SU	7.77
Temperature	°C	22.2
ORP	mV	45.5
Conductivity	ms/cm	7.037
Dissolved Oxygen	mg/L	6.79

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold prior to pumping  
2 minute purge prior to sampling  
sampled from shoreline

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: HSC-14.1

Sample ID: HSC-14.1-1SWMID-140311-N

Sampling Crew: JK, SB, HS, BS

Weather: mostly cloudy  
breezy; warm

Subcontractor(s): BESI

Date: 3/11/14

Time: 11:00

Tide: falling/low

Station Coordinates: N 3296283.80

Sampling Method: peristaltic

E 625827.04

Parameter	Units	Result
Water Depth	ft	44.6
Sample Depth	ft	22.0
pH	su	7.5
Temperature	C	15
ORP	-	160.0
Conductivity	ms/cm	17.04
Dissolved Oxygen	<del>%/sat</del>	83.1

Dissolved Sample Collected: YES  NO

7/17/14

Velocity Measurements Taken: YES  NO

Comments: pump line purged 2+ minutes before sampling  
10 minute hold on sampling once anchored

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB006.2

Sample ID: PB006.2-15W MID-140311-N / PB006.2-15W MID-140311-D

Sampling Crew: JK, HS, SB, BS

Weather: partly cloudy, breezy, warm

Subcontractor(s): BESI

Date: 3/11/14

Time: 1303

Tide: low

Station Coordinates: N 3296063.47

Sampling Method: peristaltic pump

E 876124.38

Parameter	Units	Result
Water Depth	ft	2.8
Sample Depth	ft	1.4
pH	SU	7.59
Temperature	C	17.23
ORP	-	151.8
Conductivity	ms/cm	50.10
Dissolved Oxygen	% / mg/L	103 / 9.14

Dissolved Sample Collected:  YES  NO

Velocity Measurements Taken: YES   NO

Comments: pump lined purged 2+ minutes  
10 minute hold before sampling once anchored

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB020

Sample ID: PB020-LSWMID-140312-N

Sampling Crew: JK, HS, SB, NH

Weather: clear, strong N wind  
50-60°F

Subcontractor(s): BESI

Date: 3/12/14

Time: 1207

Tide: low/falling

Station Coordinates: see field notes

Sampling Method: peristaltic

Parameter	Units	Result
Water Depth	ft	1.0
Sample Depth	ft	0.5
pH		X
Temperature		X
ORP		X
Conductivity		X
Dissolved Oxygen		X

X - not measured

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: pump purged 2 min prior to collection

Initial sample discarded due to tubing intake contact with sediment. Sample was collected from shoreline by extending rod with tubing attached away from shoreline approximately six feet

- Note - Sample discarded due to excessive wind driven turbidity and low water -

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB030.1

Sample ID: PB030.1-15WMID-140312-N

Sampling Crew: JK, NH, SB, HS

Weather: clear, strong N wind

Subcontractor(s): BESI

Date: 3/12/14

Time: 1250

Tide: low/falling

Station Coordinates: see field notes

Sampling Method: peristaltic

Parameter	Units	Result
Water Depth	ft	4.6 *
Sample Depth	ft	2.3 *
pH	SU	7.85
Temperature	C	18.7
ORP	-	134.9
Conductivity	ms/cm	13.46
Dissolved Oxygen	ms/L	8.76

\* At time of installation on March 11, 2014 16:45 CDT

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: tubing purged 2 minutes prior to collection  
samples collected from shoreline using tubing installed day prior  
that was affixed to PVC pole placed in channel. Tubing  
intake placed at mid-depth (low-tide) at time of  
installation

- Note - Sample discarded due to excessive wind driven turbidity and low water -

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB020

Sample ID: PB020-15wmID-140313

Sampling Crew: JK, SB, HS, NH

Weather: clear; lt. ENE wind,  
60-70°F

Subcontractor(s): BESI

Date: 3/13/14

Time: 1236

Tide: low

Station Coordinates: N 3291409.4

Sampling Method: pristalite, shoreline

E 295475.5

UTM NAD83 Metus Z15

Parameter	Units	Result
Water Depth	ft	1.0 ft
Sample Depth	ft	0.8 ft
pH	SU	8.03
Temperature	°C	19.22
ORP	-	
Conductivity	mS/cm	15.86
Dissolved Oxygen	mg/L	11.58

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: purged line for 2+ min prior to sampling  
10 minute hold prior to purging to allow any disturbed  
sediment to settle from placement of sample tripod  
support  
sampled from shoreline



# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB047.3

Sample ID: PB047.3-15W MID-140313-N

Sampling Crew: SB, NH, JK, HS

Weather: clear, ESE wind,

Subcontractor(s): BESI

62°F

Date: 3/13/14

Time: 1428

Tide: low

Station Coordinates: N 3290555.56

Sampling Method: peristaltic pump

E 295558.79

from shoreline

Parameter	Units	Result
Water Depth	ft	2.0 estimated
Sample Depth	ft	1.0 estimated
pH	SU	7.74
Temperature	°C	19.79
ORP	-	169.0
Conductivity	ms/cm	17.77
Dissolved Oxygen	mg/L	11.72

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: - 10 min hold prior to pumping to allow any resuspended sediment to clear due to tubing tripod placement  
- 2 minute tubing purge prior to sampling  
- Sample collected from shoreline  
- Sample location moved ~30m upstream at target location due to shallow (<1ft) at target location

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB056-C

Sample ID: PB05-C-15WMID-140313-N

Sampling Crew: SH, S<sup>JK</sup> 3/13/14

Weather: clear, SE lt. wind  
60-70°F

Subcontractor(s): BEST<sup>JK</sup> 3/13/14

Date: 3/13/14

Time: 1545

Tide: low/rising

Station Coordinates: N 3290354.90

Sampling Method: peristaltic pump from  
shoreline

E 295492.95

Parameter	Units	Result
Water Depth	ft	2.5 estimated
Sample Depth	ft.	1.8 estimated
pH	su	8.2
Temperature	°C	20.37
ORP	mV	143.3
Conductivity	mS/cm	13.19
Dissolved Oxygen	mg/L	13.91

Dissolved Sample Collected:  YES  NO

Velocity Measurements Taken: YES   NO

Comments: -10 minute hold prior to pumping to allow any resuspended sediment  
to clear due to placement of sample tubing tripod  
- 4 2<sup>nd</sup> minute line purge  
- sample collected from shoreline  
- EB-1 and FB-1 collected prior to sample collection

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB031.1

Sample ID: PB031-15WMID-140313

Sampling Crew: JK, SB, HS, NH

Weather: clear, lt ENE wind

Subcontractor(s): BESI

60-70°F

Date: 3/13/14

Time: 1325

Tide: falling / low (low tide = 1415)

Station Coordinates: N 3291091.7

Sampling Method: peristaltic pump, shoreline

BE 295499.4

TM NAD83 meters Z15

Parameter	Units	Result
Water Depth	ft	2.0 estimated
Sample Depth	ft	1.0 estimated
pH	-	7.71
Temperature	°C	18.55
ORP		—
Conductivity	mS/cm	16-24
Dissolved Oxygen	mg/L	9.71

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: sampled from shoreline  
10 minute hold after placing and setting up tubing  
2 minute purge prior to sample collection

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: EE006.1

Sample ID: EE006.1-1SWMID-140313-N

Sampling Crew: SB, NH

Weather: clear, lt ~~ESE~~ <sup>ESE SB 3/13/14</sup> wind

Subcontractor(s): BESI

Date: 3/13/14

Time: 1500

Tide: low tide (low tide @ 1415)

Station Coordinates: N 3290006.8

Sampling Method: peristaltic, shoreline

E 295603.0

Parameter	Units	Result
Water Depth	ft	2
Sample Depth	ft	1
pH	- <sup>7/13/14</sup>	7.93
Temperature	<del>°C</del> °F	68.71
ORP	-	-
Conductivity	µS/cm	939
Dissolved Oxygen	mg/L	10.35

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: Sampled from shore  
10<sup>min</sup> hold from placing & setting up tubing  
2 min purge prior to sample collection  
low flow out; water murky

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB-119-B

Sample ID: PB-119-B-1 SWMID

Sampling Crew: SB, NH

Weather: Partly Cloudy  
wind out on ~~SE~~ ESE

Subcontractor(s): BEST

Date: 3/13/14

Time: 1610

Tide: Rising (low tide @ 1415)

Station Coordinates: \_\_\_\_\_

Sampling Method: peristaltic pump

Parameter	Units	Result
Water Depth	ft	1.5
Sample Depth	ft	1
pH	-	7.39
Temperature	°C / °F	68.52
ORP	-	-
Conductivity	µS/cm	68.52 / 73.52
Dissolved Oxygen	mg/L	7.00

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: Sampled from concrete wall just downstream of  
WWTP outfall. Moderate flow

10 min hold b/w placing & setting up tubing  
2 min purge before sampling

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

3/14/14 ↗

Station ID: PB070-B-2SWMID-140314-N

Sample ID: PB070-B

Sampling Crew: BS, JK

Weather: clear, lt wind

Subcontractor(s): BESI

Date: 3/14/14

Time: 0910

Tide: high / dropping

Station Coordinates: N 3289960.27

Sampling Method: peristaltic pump from boat

E 295349.91

Parameter	Units	Result
Water Depth	ft	3.4
Sample Depth	ft	1.7
pH	su	7.60
Temperature	°C	17.28
ORP	-	167.3
Conductivity	ms/cm	13.19
Dissolved Oxygen	ms/L	6.96

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold on station prior to pumping  
2 minute tubing purge prior to sampling  
Sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB079

Sample ID: PB079-1SWMID-140314-N

Sampling Crew: HS, SB

Weather: \_\_\_\_\_

Subcontractor(s): \_\_\_\_\_

Date: 3/14/14

Time: 1400

Tide: \_\_\_\_\_

Station Coordinates: 3289759.13 Northing

Sampling Method: \_\_\_\_\_

295227.98 Easting

Parameter	Units	Result
Water Depth	<del>ft</del> ft	5.2
Sample Depth	ft	2.6
pH	SU	7.45
Temperature	°C	20.80
ORP	mV	135.1
Conductivity	ms/cm	4.887
Dissolved Oxygen	%	101.3

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB070-B

Sample ID: PB070-B-ISWMID-140314-N

Sampling Crew: HS, BS

Weather: \_\_\_\_\_

Subcontractor(s): \_\_\_\_\_

Date: 3/14/14

Time: 1315

Tide: \_\_\_\_\_

Station Coordinates: \_\_\_\_\_

Sampling Method: \_\_\_\_\_

Parameter	Units	Result
Water Depth	<u>f</u>	<u>2.9</u>
Sample Depth	<u>f</u>	<u>1.5</u>
pH	<u>SC</u>	<u>7.54</u>
Temperature	<u>C</u>	<u>19.93</u>
ORP	<u>mV</u>	<u>152.0</u>
Conductivity	<u>mc/c</u>	<u>10.56</u>
Dissolved Oxygen	<u>%</u>	<u>110.3</u>

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB081-A

Sample ID: PB081-A-15WMID-140314-N

Sampling Crew: BS, JK, SB

Weather: clear, south wind  
~65°F

Subcontractor(s): BESI

Date: 3/14/14

Time: 1515

Tide: low/rising

Station Coordinates: N 3289689.06

Sampling Method: pristaltic from boat

E 295229.59

Parameter	Units	Result
Water Depth	ft	4.0
Sample Depth	ft	2.0
pH	SU	7.49
Temperature	°C	21.42
ORP		112.4
Conductivity	ms/cm	9.218
Dissolved Oxygen	mg/L	9.12

Dissolved Sample Collected:  YES  NO

Velocity Measurements Taken:  YES  NO

Comments: 10 minute hold after anchoring prior to pumping  
2 minute purge at pump tubing prior to sampling  
collected from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB097-A

Sample ID: PB097-A-1SWMID-140314-N

Sampling Crew: JK, SB, BS

Weather: cloudy, gusty wind

Subcontractor(s): BESI

Date: 3/11/14

Time: 1754

Tide: low/rising

Station Coordinates: 3289254.95

Sampling Method: peristaltic from boat

295314.68

Parameter	Units	Result
Water Depth	ft	4.0
Sample Depth	ft	2.0
pH	su	7.67
Temperature	°C	21.06
ORP	-	37.9
Conductivity	ms/cm	4.385
Dissolved Oxygen	mg/L	9.96

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES NO

Comments: 10 min pause prior to pumping  
2 min pump prior to collection  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB085

Sample ID: PB085-1SWMID-140314-N

Sampling Crew: JL, SB, BS

Weather: cloudy, gusty SW wind  
~65°F

Subcontractor(s): BESI

Date: 3/14/14 3/14/14

Time: 1650 ~ 1654

Tide: low/rising

Station Coordinates: N 3289577.15

Sampling Method: peristaltic from boat

E 295210.86

Parameter	Units	Result
Water Depth	ft	3.7
Sample Depth	ft	1.8
pH	SU	7.58
Temperature	°C	21.66
ORP	-	62.2
Conductivity	ms/cm	7.962
Dissolved Oxygen	mg/L	10.44

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 minute hold at anchor prior to pumping  
2 minute purge before sampling  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB089

Sample ID: PB089-15WMID-140314-N

Sampling Crew: JIC, SB, BS

Weather: cloudy, gusty SW wind  
~85°F

Subcontractor(s): BESI

Date: 3/14/14

Time: 7:00 AM 3/14/14 1725

Tide: low / rising

Station Coordinates: N 3299495.37  
E 295278.21

Sampling Method: peristaltic from boat

Parameter	Units	Result
Water Depth	ft	<del>3.4</del> 2.0
Sample Depth	ft	<del>1.7</del> 1.0
pH	SU	7.63
Temperature	°C	21.87
ORP	mV	86.7
Conductivity	ms/cm	6.419
Dissolved Oxygen	mg/L	11.15

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: 10 min hold prior to pumping  
2 meter purge prior to sampling  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB081-A

Sample ID: PB081-A-ZSWMID-140315-N

Sampling Crew: BS, JK

Weather: cloudy, SE wind  
~65°F

Subcontractor(s): BESI

Date: 3/15/14

Time: 1015

Tide: high/falling

Station Coordinates: N 3269669.06

Sampling Method: peristaltic pump

E 295229.59

Parameter	Units	Result
Water Depth	ft	4.1
Sample Depth	ft	2.0
pH	SU	7.43
Temperature	°C	20.51
ORP	mV	111.5
Conductivity	ms/cm	8.664
Dissolved Oxygen	ms/L	5.88

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: high tide condition sample  
10 min hold prior to pumping  
2 min purge prior to samples  
sampled from boat

# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB093-A

Sample ID: PB093-A-15WMD-140315-N

Sampling Crew: SB, JK, BS

Weather: cloudy

Subcontractor(s): BESI

Date: 3/15/14

Time: 1630

Tide: low / rising

Station Coordinates: N 3269372.48

Sampling Method: pushnet

E 295275.51

Parameter	Units	Result
Water Depth	<u>ft</u>	<u>2.0</u>
Sample Depth	<u>ft</u>	<u>1.0</u>
pH	<u>SV</u>	<u>7.76</u>
Temperature	<u>°C</u>	<u>19.67</u>
ORP	<u>mV</u>	<u>88.5</u>
Conductivity	<u>ms/cm</u>	<u>1.193</u>
Dissolved Oxygen	<u>ms/L</u>	<u>11.84</u>

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: sample discarded; see field notes on 3/21/14

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# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB095

Sample ID: PB095-1SWMID-1410315-N

Sampling Crew: SB, BS, JLC

Weather: cloudy, intermittent

Subcontractor(s): BESI

light rain

Date: 3/15/14

60°F

Time: 1658

Tide: low/rising

Station Coordinates: N 3269310.69

Sampling Method: peristaltic pump

E 295301.32

Parameter	Units	Result
Water Depth	<u>ft</u>	<u>2.2</u>
Sample Depth	<u>ft</u>	<u>1.1</u>
pH	<u>SU</u>	<u>7.69</u>
Temperature	<u>°C</u>	<u>19.99</u>
ORP	<u>mV</u>	<u>117.1</u>
Conductivity	<u>µS/cm</u>	<u>1.623</u>
Dissolved Oxygen	<u>mg/L</u>	<u>10.81</u>

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO  in

Comments: sample discarded; see field notes on 3/21/14

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# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB099

Sample ID: PB099-15WMD-140315

Sampling Crew: JK, SB, BS

Weather: light, constant rain

Subcontractor(s): BESI

50 W/F

Date: 3/14/14 to 3/15/14

light S/E wind

Time: 1738 3/21/14

Tide: low/rising

Station Coordinates: N 3269205.48

Sampling Method: peristaltic pump

E 295335.50

Parameter	Units	Result
Water Depth	ft	1.8
Sample Depth	ft	0.9
pH	SD	7.60
Temperature	°C	20.18
ORP	mV	118.4
Conductivity	ms/cm	2.395
Dissolved Oxygen	mg/L	9.37

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: sample discarded; see field notes on 3/21/14

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# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB087

Sample ID: PB087-15WMI12-140315-N

Sampling Crew: JTC, SB, BS

Weather: light rain

Subcontractor(s): BESI, on 3/21/14

SE wind

Date: 3/14/15 3/15/14

Time: 1450

Tide: low / falling

Station Coordinates: N 3289541.30

Sampling Method: \_\_\_\_\_

E 295258.60

Parameter	Units	Result
Water Depth	ft	3.9
Sample Depth	ft	1.9
pH	SU	7.66
Temperature	°C	20.62
ORP	mV	35.0
Conductivity	ms/cm	3.962
Dissolved Oxygen	mg/L	10.62

Dissolved Sample Collected: YES   NO

Velocity Measurements Taken:  YES  NO

Comments: sample discarded; see field notes on 3/21/14

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# Water Quality Sample Form



Project Name: Patrick Bayou

Project Number: 040284-01

Station ID: PB083

Sample ID: PB083-15WM17-140314

Sampling Crew: B.S. SIB, JLC

Weather: speedy rain

Subcontractor(s): PAESI

15R down

Date: 3/15/14 on 3/21/14

Time: 1405 on 3/21/14

Tide: low/high

Station Coordinates: 32876.28, 72  
295227.23

Sampling Method: pushcore

Parameter	Units <sup>7/17/14</sup>	Result
Water Depth	ft	4.5
Sample Depth	ft	2.3
pH	su	7.53
Temperature	°C	21.08
ORP	mV	105.6
Conductivity	ms/cm	8.330
Dissolved Oxygen	mg/L	8.17

Dissolved Sample Collected: YES  NO

Velocity Measurements Taken: YES  NO

Comments: sample discarded; see field notes on 3/21/14

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# APPENDIX C

## LABORATORY REPORTS

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**Laboratory Report of Analysis**

To: Delaney Peterson  
ANCHOR ENVIRONMENTAL  
720 Olive Way  
Suite 1900  
Seattle, WA 98101  
US

Report Number: **31400373**

Client Project: **Patrick Bayou**

Dear Delaney Peterson,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
SGS North America Inc.

---

Jeannie Milholland  
QA Director  
jeannie.milholland@sgs.com

Date

**ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.**

## Laboratory Qualifiers

### Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

### Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

**Sample Summary**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
PB006.2-1SWMID-140311-D	31400373001	03/11/2014 13:03	03/12/2014 09:45	Water
PB006.2-1SWMID-140311-N	31400373002	03/11/2014 13:03	03/12/2014 09:45	Water
HSC14.1-1SWMID-140311-N	31400373003	03/11/2014 12:11	03/12/2014 09:45	Water

**Case Narrative**

9060A - Samples for analysis for DOC were not filtered and preserved immediately upon receipt per SGS SOP. The samples were filtered and preserved 5 days after receipt, as soon as the error was noted. The late filtering and preservation may lead to a high bias on reported data. The DOC results are greater than the TOC results; this may be due to the late filtering.

2540-D - Revised report to J flag TSS results down to the MDL in order to meet the reporting limit requirements of the SAP for this project.

**Detectable Results Summary**

Client Sample ID: **PB006.2-1SWMID-140311-D**

Lab Sample ID: 31400373001-C

**SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Dissolved Organic Carbon	9.80	mg/L
Total Organic Carbon	6.75	mg/L

Client Sample ID: **PB006.2-1SWMID-140311-N**

Lab Sample ID: 31400373002-D

**SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Dissolved Organic Carbon	9.40	mg/L
Total Organic Carbon	5.47	mg/L

Client Sample ID: **HSC14.1-1SWMID-140311-N**

Lab Sample ID: 31400373003-A

**SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Organic Carbon	5.52	mg/L





# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

REVISED REPORT

**PROJECT INFO:**

PROJECT: *Patrick Bayou*

\*P.O. #:

QUOTE #:

SITE REF: *040284-01.08*

TURN AROUND TIME: *Standard*

REPORT LEVEL: (see reverse)  Level I  Level II  Level III  Level IV

SPECIAL DELIVERABLES:  State of Origin;  Other;

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Anchor QEA, LLC*

CONTACT: *Delaney Peterson*

ADDRESS: *720 Olive Way, Ste 1900, Seattle WA 98101*

PHONE: *206-903-3396*

EMAIL: *dpeterson@anchorage.com*

INVOICE TO: ( CHECK IF SAME)

COMPANY: *PNL* CONTACT: *Bob Piniowski*

ADDRESS:

PHONE: *919-964-9126*

EMAIL: *bobp@projectnavigator.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

*31400373*

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	ANALYSIS & METHOD	REMARKS
				MS	MSD	DUP					
	<i>PB006.2-15wm10-140311-D</i>	<i>3/11/14</i>	<i>1303</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>✓ PCB Cong.</i>	<i>*Filter prior to analysis</i>
	<del><i>PB006.2-15wm10-140311-D</i></del>	<del><i>3/11/14</i></del>	<del><i>1303</i></del>	<del></del>	<del></del>	<del></del>	<del><i>G</i></del>	<del><i>WS</i></del>	<del><i>9</i></del>	<del><i>✓ PCB Cong.</i></del>	<del><i>*Filter prior to analysis</i></del>
	<del><i>PB006.2-15wm10-140311-D</i></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>
	<i>PB006.2-15wm10-140311-N</i>	<i>3/11/14</i>	<i>1303</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>✓ PCB Cong.</i>	<i>*Filter prior to analysis</i>
	<del><i>P1</i></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>
	<i>P15C14.1-15wm10-140311-N</i>	<i>3/11/14</i>	<i>1211</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>✓ PCB Cong.</i>	<i>*Filter prior to analysis</i>

COLLECTED/RELINQUISHED BY (1): <i>[Signature]</i>	DATE: <i>3/11/14</i>	TIME: <i>1650</i>	RECEIVED BY: <i>FedEx</i>	RECEIVED BY LABORATORY: <i>Bullman Hager</i>	DATE: <i>12-11-11</i>	TIME: <i>0940</i>
RELINQUISHED BY (2): <i>[Signature]</i>	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C <i>3.4, 2.2</i>	
			CARRIER: <i>FedEx</i>	TRACKING #:		

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Anchor Environmental

Work Order No.: 31400373

- 1.  Shipped  
 Hand Delivered
- 2.  COC Present on Receipt  
 No COC  
 Additional Transmittal Forms
- 3.  Custody Tape on Container  
 No Custody Tape
- 4.  Samples Intact  
 Samples Broken / Leaking
- 5.  Chilled on Receipt    Actual Temp.(s) in °C: 3.4, 2.2    Thermometer ID#: Login-1D  
 Ambient on Receipt  
 Walk-in on Ice; Coming down to temp.  
 Temperature Blank Present
- 6.  Sufficient Sample Submitted  
 Insufficient Sample Submitted
- 7.  Chlorine absent  
 HNO3 < 2  
 HCL < 2  
 Additional Preservatives verified (see notes)
- 8.  Received Within Holding Time  
 Not Received Within Holding Time
- 9.  No Discrepancies Noted  
 Discrepancies Noted  
 NCDENR notified of Discrepancies\*
- 10.  No Headspace present in VOC vials  
 Headspace present in VOC vials >6mm

Notes: \_\_\_\_\_  
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Comments: ID's = 'PAB' for bottle  
(signature) 3/12/14

Inspected and Logged in by: RCH  
Date: Wed-3/12/14 00:00

# SM 2540-D

## Sample Data

**Results of PB006.2-1SWMID-140311-D**

Client Sample ID: **PB006.2-1SWMID-140311-D**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400373001-E  
 Lab Project ID: 31400373

Collection Date: 03/11/2014 13:03  
 Received Date: 03/12/2014 09:45  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	11	J	3.6	25.0	mg/L	1	03/14/2014 17:48

**Batch Information**

Analytical Batch: **INO3014**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3014**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/14/2014 17:48**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**

**Results of PB006.2-1SWMID-140311-N**

Client Sample ID: **PB006.2-1SWMID-140311-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400373002-F  
 Lab Project ID: 31400373

Collection Date: 03/11/2014 13:03  
 Received Date: 03/12/2014 09:45  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	17	J	3.6	25.0	mg/L	1	03/14/2014 17:49

**Batch Information**

Analytical Batch: **INO3014**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3014**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/14/2014 17:49**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



**Results of HSC14.1-1SWMID-140311-N**

Client Sample ID: **HSC14.1-1SWMID-140311-N**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400373003-B  
Lab Project ID: 31400373

Collection Date: 03/11/2014 12:11  
Received Date: 03/12/2014 09:45  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	14	J	3.6	25.0	mg/L	1	03/14/2014 17:49

**Batch Information**

Analytical Batch: **INO3014**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3014**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/14/2014 17:49**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



5500 Business Drive  
Wilmington, NC 28405

# Total Suspended Solids

SM 2540 D

Batch: <b>INO 3014</b>	Balance: <b>BAL10</b>	In Oven Date: 3/14/2014
Analyst: <b>VS</b>	Oven: <b>Oven #6</b>	In Oven Time: 14:36
StandardID: <b>TSA15</b>	In Oven Temp: <b>105</b>	Out Oven Date: 3/14/2014
	Out Oven Temp: <b>105</b>	Out Oven Time: 15:58

Type	Lab ID	Vol mL	Filter Lot #	Analyzed Date	Analyzed Time	Filter g	Final g	Result mg/L
MB	132298	100	INV2	03/14/2014	14:17	0.1171	0.1169	-2
LCS	132299	25	INV2	03/14/2014	14:17	0.1174	0.1286	448
SAMPLE	31400373001	100	INV2	03/14/2014	14:17	0.1195	0.1206	11
DUP	132300	100	INV2	03/14/2014	14:17	0.1179	0.1190	11
SAMPLE	31400373002	100	INV2	03/14/2014	14:17	0.1228	0.1245	17
SAMPLE	31400373003	100	INV2	03/14/2014	14:17	0.1224	0.1238	14
SAMPLE	31400386001	100	INV2	03/14/2014	14:17	0.1177	0.1177	0
SAMPLE	31400389001	100	INV2	03/14/2014	14:17	0.1194	0.1214	20
SAMPLE	31400389002	100	INV2	03/14/2014	14:17	0.1242	0.1258	16
SAMPLE	31400389003	100	INV2	03/14/2014	14:17	0.1183	0.1201	18
SAMPLE	31400389004	100	INV2	03/14/2014	14:18	0.1190	0.1224	34
SAMPLE	31400389005	100	INV2	03/14/2014	14:18	0.1192	0.1203	11
SAMPLE	31400389006	100	INV2	03/14/2014	14:18	0.1171	0.1178	7

**Analyst Signature**

3-14-14

**Date**

Analyst signature indicates that the data printed is a true representation of volumes and weights encountered in the analytical process. Weights are obtained through overnight drying at 105C.

The calculation of TSS is: 
$$\frac{(F2 - F1) \times 1,000,000}{V1} = \text{mg/L TSS}$$

Where: F2 = Final (g)  
F1 = Filter (g)  
V1 = Vol (mL)

Printed: 3/14/2014 5:37:49 PM

1 of 1 Pages

# SM 2540-D

## QC, Blanks Data



**Batch Summary**

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Prep Batch: INO3014

Prep Date: 03/14/2014 17:44

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41318 [INO/3014]	132298	03/14/2014 17:44	INO3014	BAL10	VS
LCS for HBN 41318 [INO/3014]	132299	03/14/2014 17:47	INO3014	BAL10	VS
PB006.2-1SWMID-140311-D	31400373001	03/14/2014 17:48	INO3014	BAL10	VS
PB006.2-1SWMID-1...(132120DUP)	132300	03/14/2014 17:49	INO3014	BAL10	VS
PB006.2-1SWMID-140311-N	31400373002	03/14/2014 17:49	INO3014	BAL10	VS
HSC14.1-1SWMID-140311-N	31400373003	03/14/2014 17:49	INO3014	BAL10	VS

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41318 [INO/3014]  
 Blank Lab ID: 132298  
 Prep Batch: INO3014

Matrix: Water  
 Analysis Date/Time: 03/14/2014 17:44

**Results by SM 2540-D**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41318 [INO/3014]	132299		03/14/2014 17:47	VS
PB006.2-1SWMID-140311-D	31400373001		03/14/2014 17:48	VS
PB006.2-1SWMID-1...(132120DUP)	132300		03/14/2014 17:49	VS
PB006.2-1SWMID-140311-N	31400373002		03/14/2014 17:49	VS
HSC14.1-1SWMID-140311-N	31400373003		03/14/2014 17:49	VS

**Method Blank**

Blank ID: MB for HBN 41318 [INO/3014]  
 Blank Lab ID: 132298  
 QC for Samples:  
 31400373001, 31400373002, 31400373003

Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1

**Batch Information**

Analytical Batch: INO3014  
 Analytical Method: SM 2540-D  
 Instrument: BAL10  
 Analyst: VS

Prep Batch: INO3014  
 Prep Method: SM 2540-D  
 Prep Date/Time: 3/14/2014 5:44:34PM  
 Prep Initial Wt./Vol.: 1 mL  
 Prep Extract Vol: 1 mL

**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41318 [INO/3014]  
 Blank Spike Lab ID: 132299  
 Date Analyzed: 03/14/2014 17:47

Matrix: Water

QC for Samples: 31400373001, 31400373002, 31400373003

**Results by SM 2540-D**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Suspended Solids	500	448	90	80.0-120

**Batch Information**

Analytical Batch: **INO3014**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3014**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/14/2014 17:47**  
 Spike Init Wt./Vol.: **1 mL** Extract Vol: **1 mL**  
 Dupe Init Wt./Vol.:     Extract Vol:

**Duplicate Sample Summary**

Original Sample ID: 31400373001-E  
 Duplicate Sample ID: 132300

Analysis Date: 03/14/2014 17:48  
 Analysis Date: 03/14/2014 17:49  
 Matrix: Water

QC for Samples: 31400373001, 31400373002, 31400373003

**Results by SM 2540-D**

<u>PARAMETER</u>	<u>Original (mg/L)</u>	<u>Qual</u>	<u>Duplicate (mg/L)</u>	<u>Qual</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	11	J	11	J	0	20.00

**Batch Information**

Analytical Batch: INO3014  
 Analytical Method: SM 2540-D  
 Instrument: BAL10  
 Analyst: VS

# SW-846 9060A

## Sample Data

**Results of PB006.2-1SWMID-140311-D**

Client Sample ID: **PB006.2-1SWMID-140311-D**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400373001-C  
 Lab Project ID: 31400373

Collection Date: 03/11/2014 13:03  
 Received Date: 03/12/2014 09:45  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dissolved Organic Carbon	<b>9.80</b>		1.00	mg/L	1	03/18/2014 23:33
Total Organic Carbon	<b>6.75</b>		1.00	mg/L	1	03/18/2014 13:30

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 13:30**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 23:33**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0373\_1  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.795mg/L

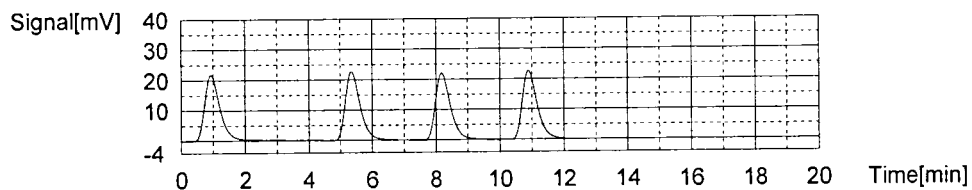
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.28	9.890mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:33:41 PM
2	75.84	9.833mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:36:40 PM
3	74.08	9.605mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:39:33 PM
4	75.99	9.852mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:42:25 PM

Mean Area 75.55  
 Mean Conc. 9.795mg/L

*RM*  
 3-19-14





REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0373\_1  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.747mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	51.88	6.726mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:30:47 PM
2	52.01	6.743mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:33:25 PM
3	51.46	6.672mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:35:56 PM
4	52.81	6.847mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:38:35 PM

Mean Area 52.04  
 Mean Conc. 6.747mg/L

*18m*  
*3-19-14*



Results of **PB006.2-1SWMID-140311-N**

Client Sample ID: **PB006.2-1SWMID-140311-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400373002-D  
 Lab Project ID: 31400373

Collection Date: 03/11/2014 13:03  
 Received Date: 03/12/2014 09:45  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dissolved Organic Carbon	<b>9.40</b>		1.00	mg/L	1	03/18/2014 22:32
Total Organic Carbon	<b>5.47</b>		1.00	mg/L	1	03/18/2014 14:30

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 14:30**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 22:32**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0373\_2  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.402mg/L

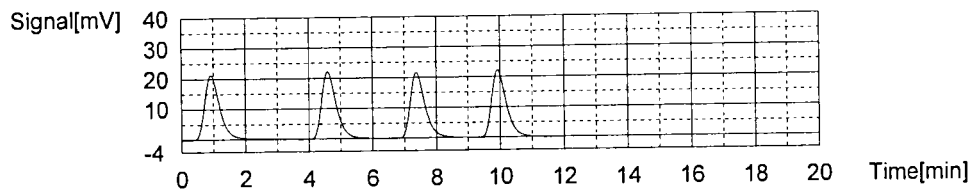
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.28	9.371mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:32:38 PM
2	73.47	9.526mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:35:34 PM
3	71.27	9.240mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:38:17 PM
4	73.06	9.472mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:41:07 PM

Mean Area 72.52  
 Mean Conc. 9.402mg/L

*AW*  
 3-19-14



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0373\_2  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.474mg/L

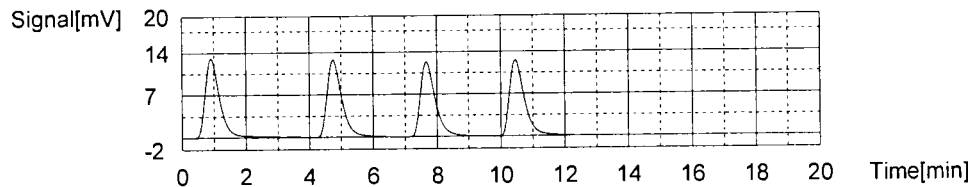
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	43.05	5.582mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 2:30:39 PM
2	42.39	5.496mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 2:33:44 PM
3	41.31	5.356mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 2:36:42 PM
4	42.14	5.464mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 2:39:44 PM

Mean Area 42.22  
 Mean Conc. 5.474mg/L

*88m  
3-19-14*



**Results of HSC14.1-1SWMID-140311-N**

Client Sample ID: **HSC14.1-1SWMID-140311-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400373003-A  
 Lab Project ID: 31400373

Collection Date: 03/11/2014 12:11  
 Received Date: 03/12/2014 09:45  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	<b>5.52</b>		1.00	mg/L	1	03/18/2014 14:52

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 14:52**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0373\_3  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.522mg/L

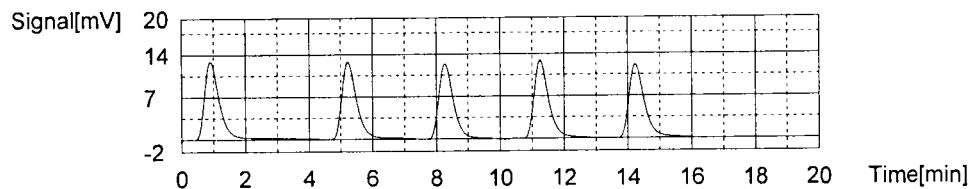
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	43.77	5.675mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 2:52:20 PM
2	42.00	5.445mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 2:55:30 PM
3	40.58	5.261mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 2:58:39 PM
4	42.42	5.500mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:01:47 PM
5	42.18	5.469mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:05:06 PM

Mean Area 42.59  
 Mean Conc. 5.522mg/L

*Am*  
 3-19-14



# SW-846 9060A

## QC, Blanks Data

**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3016

Prep Date: 03/18/2014 00:53

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41460 [INO/3016]	132565	03/18/2014 00:53	INO3016	TOC1	PSW
LCS for HBN 41460 [INO/3016]	132566	03/18/2014 13:11	INO3016	TOC1	PSW
PB006.2-1SWMID-140311-D	31400373001	03/18/2014 13:30	INO3016	TOC1	PSW
PB006.2-1SWMID-14...(132120MS)	132567	03/18/2014 13:49	INO3016	TOC1	PSW
PB006.2-1SWMID-1...(132120MSD)	132568	03/18/2014 14:09	INO3016	TOC1	PSW
PB006.2-1SWMID-140311-N	31400373002	03/18/2014 14:30	INO3016	TOC1	PSW
HSC14.1-1SWMID-140311-N	31400373003	03/18/2014 14:52	INO3016	TOC1	PSW
PB097A-1SWMID-14...(132401DUP)	132569	03/18/2014 21:28	INO3016	TOC1	PSW



**Method Blank Summary Form 4**

Blank ID: MB for HBN 41460 [INO/3016]  
 Blank Lab ID: 132565  
 Prep Batch: INO3016

Matrix: Water  
 Analysis Date/Time: 03/18/2014 00:53

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41460 (INO/3016)	132764	INO3016.csv	03/18/2014 00:17	PSW
LCS for HBN 41460 [INO/3016]	132566	INO3016.csv	03/18/2014 13:11	PSW
PB006.2-1SWMID-140311-D	31400373001	INO3016.csv	03/18/2014 13:30	PSW
PB006.2-1SWMID-14...(132120MS)	132567	INO3016.csv	03/18/2014 13:49	PSW
PB006.2-1SWMID-1...(132120MSD)	132568	INO3016.csv	03/18/2014 14:09	PSW
PB006.2-1SWMID-140311-N	31400373002	INO3016.csv	03/18/2014 14:30	PSW
HSC14.1-1SWMID-140311-N	31400373003	INO3016.csv	03/18/2014 14:52	PSW
CBV for HBN 41460 (INO/3016)	132768	INO3016.csv	03/18/2014 16:25	PSW
PB097A-1SWMID-14...(132401DUP)	132569	INO3016.csv	03/18/2014 21:28	PSW

**Method Blank**

Blank ID: MB for HBN 41460 [INO/3016]  
 Blank Lab ID: 132565  
 QC for Samples:  
 31400373001, 31400373002, 31400373003

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3016  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3016  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/18/2014 12:53:41AM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132565 MB  
Sample ID:  
Origin: 9060A\_TOC1\_Waters.met  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2217mg/L

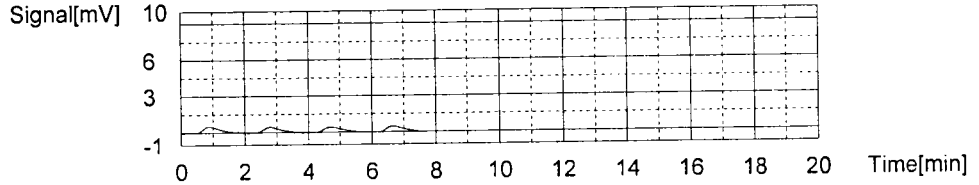
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.756	0.2277mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:53:41 PM
2	1.632	0.2116mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:55:44 PM
3	1.712	0.2220mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:57:51 PM
4	1.741	0.2257mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:59:57 PM

Mean Area 1.710  
Mean Conc. 0.2217mg/L

*plw*  
*3-14-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41460 [INO/3016]  
 Blank Spike Lab ID: 132566  
 Date Analyzed: 03/18/2014 13:11

Matrix: Water

QC for Samples: 31400373001, 31400373002, 31400373003

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	48.6	97	90.0-110

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 13:11**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132566 LCS  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.57mg/L

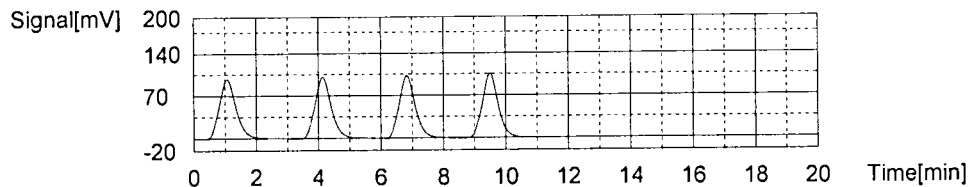
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	371.4	48.15mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:11:11 PM
2	375.9	48.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:14:03 PM
3	371.8	48.21mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:16:51 PM
4	379.5	49.20mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:19:42 PM

Mean Area 374.7  
 Mean Conc. 48.57mg/L

*DMW*  
*3-19-14*



**Matrix Spike Summary**

Original Sample ID: 31400373001  
 (PB006.2-1SWMID-140311-D)  
 MS Sample ID: 132567  
 MSD Sample ID: 132568  
 QC for Samples: 31400373001, 31400373002, 31400373003

Analysis Date: 03/18/2014 13:30  
 Analysis Date: 03/18/2014 13:49  
 Analysis Date: 03/18/2014 14:09  
 Matrix: Water

**Results by SW-846 9060A**

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Organic Carbon	6.75	50.0	53.6	94	50.0	53.1	93	75.0-125	0.94	25.00

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 13:30**  
 MS Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**  
 MSD Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132567 MS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:53.55mg/L

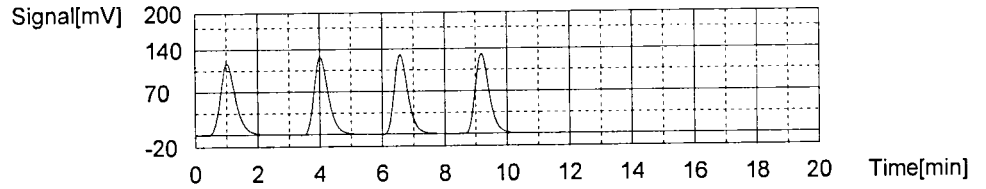
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	408.9	53.02mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:49:54 PM
2	418.6	54.27mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:52:38 PM
3	407.5	52.83mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:55:26 PM
4	417.2	54.09mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:58:06 PM

Mean Area 413.1  
 Mean Conc. 53.55mg/L

*ASW*  
 3-19-14



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132568 MSD  
Sample ID:  
Origin: 9060A\_TOC1\_Waters.met  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:53.11mg/L

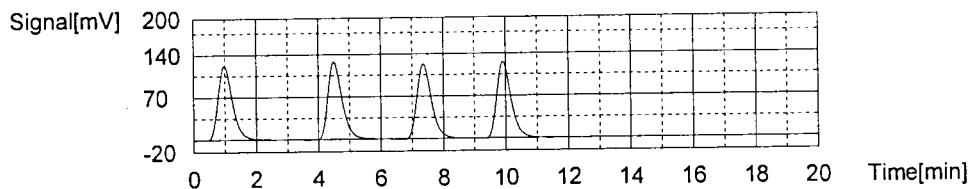
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	405.1	52.52mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 2:09:57 PM
2	414.9	53.79mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 2:12:55 PM
3	407.5	52.83mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 2:15:40 PM
4	411.1	53.30mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 2:18:32 PM

Mean Area 409.6  
Mean Conc. 53.11mg/L

*BJM*  
*3-19-14*





**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3017

Prep Date: 03/18/2014 21:49

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB-F1 for HBN 41461 [INO/3017]	132570	03/18/2014 21:49	INO3017	TOC1	PSW
LCS for HBN 41461 [INO/3017]	132571	03/18/2014 22:12	INO3017	TOC1	PSW
PB006.2-1SWMID-140311-N	31400373002	03/18/2014 22:32	INO3017	TOC1	PSW
PB006.2-1SWMID-14...(132121MS)	132572	03/18/2014 22:52	INO3017	TOC1	PSW
PB006.2-1SWMID-1...(132121MSD)	132573	03/18/2014 23:12	INO3017	TOC1	PSW
PB006.2-1SWMID-140311-D	31400373001	03/18/2014 23:33	INO3017	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB-F1 for HBN 41461 [INO/3017]  
 Blank Lab ID: 132570  
 Prep Batch: INO3017

Matrix: Water  
 Analysis Date/Time: 03/18/2014 21:49

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41461 (INO/3017)	132778	INO3017.csv	03/18/2014 20:45	PSW
LCS for HBN 41461 [INO/3017]	132571	INO3017.csv	03/18/2014 22:12	PSW
PB006.2-1SWMID-140311-N	31400373002	INO3017.csv	03/18/2014 22:32	PSW
PB006.2-1SWMID-14...(132121MS)	132572	INO3017.csv	03/18/2014 22:52	PSW
PB006.2-1SWMID-1...(132121MSD)	132573	INO3017.csv	03/18/2014 23:12	PSW
PB006.2-1SWMID-140311-D	31400373001	INO3017.csv	03/18/2014 23:33	PSW
CBV for HBN 41461 (INO/3017)	132779	INO3017.csv	03/19/2014 00:53	PSW

**Method Blank**

Blank ID: MB-F1 for HBN 41461 [INO/3017]  
 Blank Lab ID: 132570  
 QC for Samples:  
 31400373001, 31400373002

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Dissolved Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3017  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3017  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/18/2014 9:49:14PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132570 MB-F1  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3902mg/L

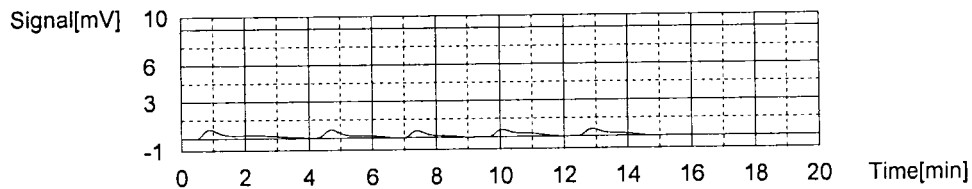
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.787	0.6207mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 9:49:14 PM
2	2.834	0.3674mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:52:05 PM
3	2.839	0.3681mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:54:54 PM
4	3.525	0.4570mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:57:52 PM
5	2.840	0.3682mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:00:33 PM

Mean Area 3.010  
 Mean Conc. 0.3902mg/L

*BM*  
*3-19-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41461 [INO/3017]  
 Blank Spike Lab ID: 132571  
 Date Analyzed: 03/18/2014 22:12

Matrix: Water

QC for Samples: 31400373001, 31400373002

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Dissolved Organic Carbon	50.0	49.1	98	90.0-110

**Batch Information**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 22:12**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132571 LCS  
Sample ID:  
Origin: 9060A\_TOC1\_Waters.met  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.14mg/L

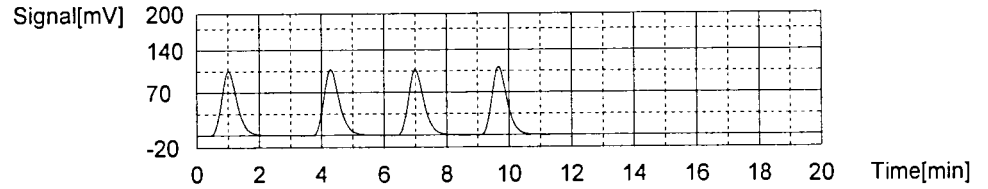
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	373.3	48.40mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:12:00 PM
2	384.3	49.83mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:14:52 PM
3	375.9	48.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:17:42 PM
4	382.6	49.61mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:20:30 PM

Mean Area 379.0  
Mean Conc. 49.14mg/L

*AW*  
*3-19-14*



**Matrix Spike Summary**

Original Sample ID: 31400373002  
 (PB006.2-1SWMID-140311-N)  
 MS Sample ID: 132572  
 MSD Sample ID: 132573  
 QC for Samples: 31400373001, 31400373002

Analysis Date: 03/18/2014 22:32  
 Analysis Date: 03/18/2014 22:52  
 Analysis Date: 03/18/2014 23:12  
 Matrix: Water

**Results by SW-846 9060A**

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Dissolved Organic Carbon	9.40	50.0	56.3	94	50.0	56.2	94	75.0-125	0.18	25.00

**Batch Information**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 22:32**  
 MS Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**  
 MSD Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.r32

Sample

Sample Name: 132572 MS  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:56.30mg/L

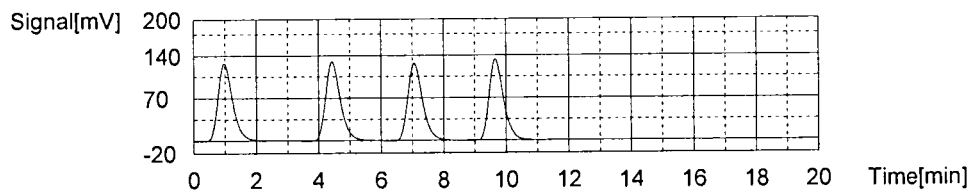
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	429.3	55.66mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:52:52 PM
2	440.1	57.06mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:55:40 PM
3	429.9	55.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:58:31 PM
4	437.5	56.72mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:01:12 PM

Mean Area 434.2  
 Mean Conc. 56.30mg/L

*25m  
3-19-14*





REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132573 MSD  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:56.16mg/L

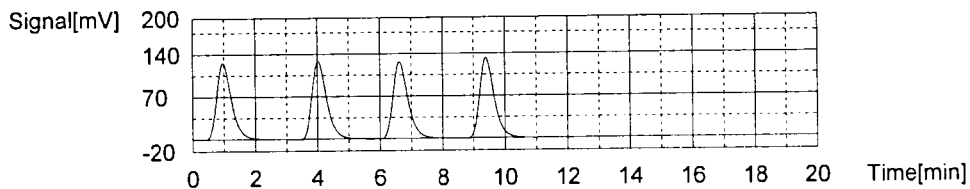
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	425.8	55.21mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 11:12:29 PM
2	436.9	56.65mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 11:15:14 PM
3	432.4	56.06mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 11:18:10 PM
4	437.4	56.71mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 11:20:57 PM

Mean Area 433.1  
 Mean Conc. 56.16mg/L

*PSW*  
*3-19-14*



# SW-846 9060A

## Prep, Standard, Run Logs

SGS Environmental Services

TOC Runlog Sheet

Method: 9060

Batch: INO3016

IND 3017

Matrix: Water

Primary Std Lot#: D-437

Initial Cal. Curve: ICAL-030414W

Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/18/2014 11:55	PSW			
CBV ✓	3/18/2014 12:17	PSW			
NEG ✓	3/18/2014 12:35	PSW			
132565 MB ✓	3/18/2014 12:53	PSW			
132566 LCS ✓	3/18/2014 13:11	PSW			
0373_1	3/18/2014 13:30	PSW			
132567 MS ✓	3/18/2014 13:49	PSW			
132568 MSD ✓	3/18/2014 14:09	PSW			
0373_2	3/18/2014 14:30	PSW			
0373_3	3/18/2014 14:52	PSW			
0389_1	3/18/2014 15:18	PSW			
0389_2	3/18/2014 15:41	PSW			
3016 ICV ✓	3/18/2014 16:03	PSW			
CBV ✓	3/18/2014 16:25	PSW			
0389_3	3/18/2014 16:46	PSW			
0389_4	3/18/2014 17:07	PSW			
0389_5	3/18/2014 17:29	PSW			
0389_6	3/18/2014 17:51	PSW			
0395_1	3/18/2014 18:14	PSW			
0395_2	3/18/2014 18:36	PSW			
0395_3	3/18/2014 18:58	PSW			

IND

Analyst: \_\_\_\_\_

# SGS Environmental Services

## TOC Runlog Sheet

Method: 9060 Batch: INO3016  
 Matrix: Water Primary Std Lot#: D-437  
 Initial Cal. Curve: ICAL-030414W Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
0395_4	3/18/2014 19:20	PSW			
0395_5	3/18/2014 19:42	PSW			
0395_6	3/18/2014 20:03	PSW			
ICV ✓	3/18/2014 20:24	PSW			
CBV ✓	3/18/2014 20:45	PSW			
0395_7	3/18/2014 21:08	PSW			
132569 DUP	3/18/2014 21:28	PSW			
132570 MB-F1 ✓	3/18/2014 21:49	PSW			
132571 LCS ✓	3/18/2014 22:12	PSW			
0373_2	3/18/2014 22:32	PSW			
132572 MS ✓	3/18/2014 22:52	PSW			
132573 MSD ✓	3/18/2014 23:12	PSW			
0373_1	3/18/2014 23:33	PSW			
0389_4	3/18/2014 23:53	PSW			
0395_4	3/19/2014 0:14	PSW			
ICV ✓	3/19/2014 0:33	PSW			
CBV ✓	3/19/2014 0:53	PSW			
0395_7 Sample on	3/19/2014 1:15	PSW			
132574 DUP held	3/19/2014 1:35	PSW			
ICV ✓	3/19/2014 1:56	PSW			
CBV - 100	3/19/2014 2:16	PSW			

# SW-846 9060A

## Initial Calibration Data

REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.t32

Cal. Curve

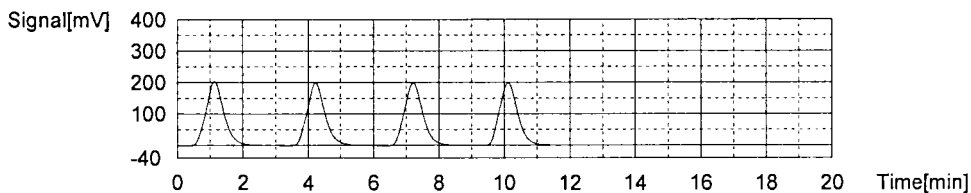
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 030414W.2014\_03\_04\_13\_51\_57.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	778.3	100ul	1	*****		3/4/2014 2:00:59 PM
2	774.6	100ul	1	*****		3/4/2014 2:06:27 PM
3	776.1	100ul	1	*****		3/4/2014 2:11:52 PM
4	769.8	100ul	1	*****		3/4/2014 2:17:17 PM

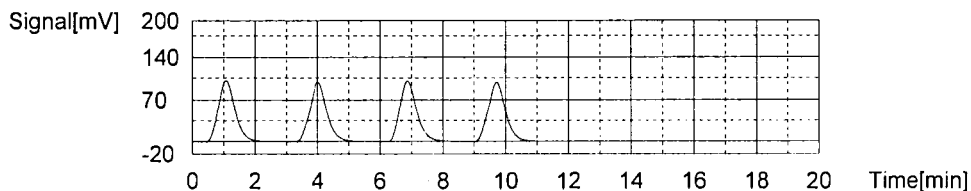
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 774.7 ✓  
*ANW 3-5-14*



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	382.0	100ul	1	*****		3/4/2014 2:27:08 PM
2	381.1	100ul	1	*****		3/4/2014 2:32:33 PM
3	380.7	100ul	1	*****		3/4/2014 2:37:49 PM
4	380.6	100ul	1	*****		3/4/2014 2:43:10 PM

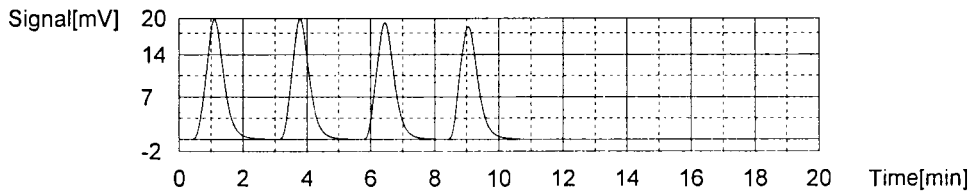
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 381.1 ✓  
*ANW 3-6-14*



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	76.52	100ul	1	*****		3/4/2014 2:52:51 PM
2	75.85	100ul	1	*****		3/4/2014 2:57:58 PM
3	75.13	100ul	1	*****		3/4/2014 3:03:05 PM
4	75.04	100ul	1	*****		3/4/2014 3:08:13 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 75.64 ✓  
*ANW 3-5-14*



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.25	100ul	1	*****		3/4/2014 3:17:22 PM
2	10.24	100ul	1	*****		3/4/2014 3:22:03 PM
3	10.27	100ul	1	*****		3/4/2014 3:26:47 PM
4	10.29	100ul	1	*****		3/4/2014 3:31:30 PM

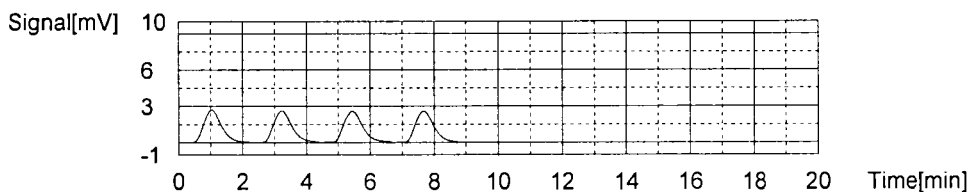
REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.i32

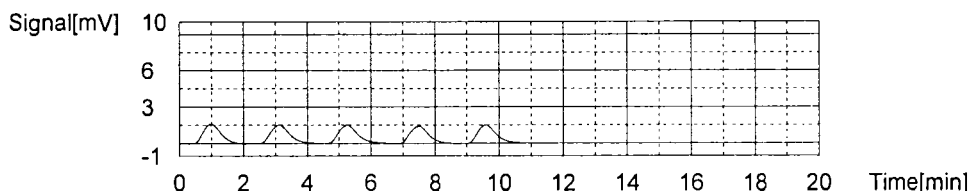
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 10.26 ✓  
*pmw 3-5-14*



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.283	100uL	1	*****		3/4/2014 3:40:32 PM
2	6.118	100uL	1	*****		3/4/2014 3:45:10 PM
3	6.095	100uL	1	*****		3/4/2014 3:49:51 PM
4	5.719	100uL	1	*****	E	3/4/2014 3:54:29 PM
5	5.937	100uL	1	*****		3/4/2014 3:59:05 PM

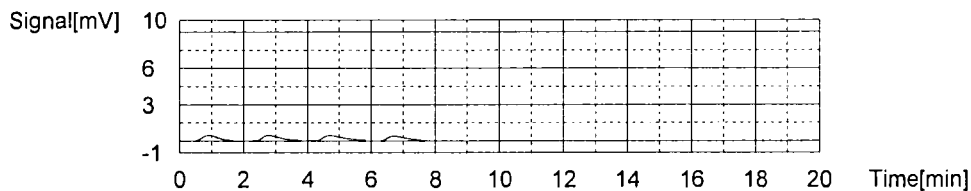
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 6.108 ✓  
*pmw 3-5-14*



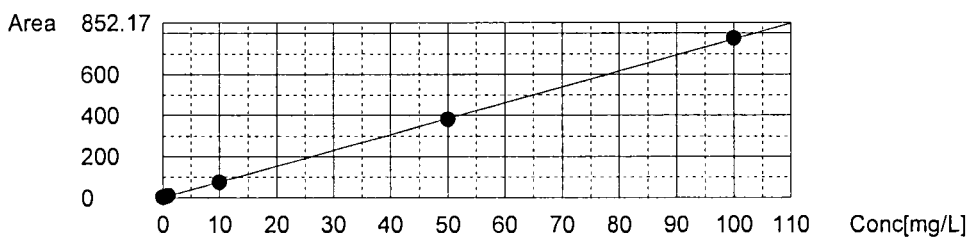
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.725	100uL	1	*****		3/4/2014 4:07:57 PM
2	1.582	100uL	1	*****		3/4/2014 4:12:20 PM
3	1.704	100uL	1	*****		3/4/2014 4:16:49 PM
4	1.572	100uL	1	*****		3/4/2014 4:21:12 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 1.646 ✓  
*pmw 3-5-14*



Slope: 7.713  
 Intercept: 0.000  
 r<sup>2</sup>: 0.999906  
 r: 0.999953  
 Zero Shift: Yes



# SW-846 9060A

## Continuing Calibration Data



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.22mg/L

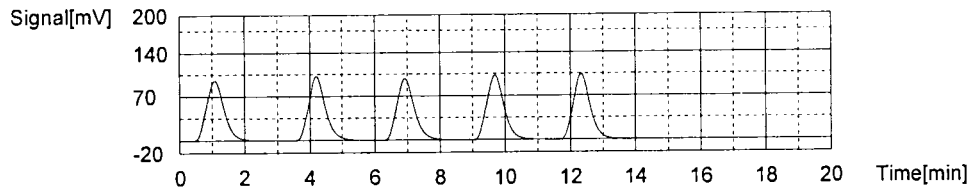
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	367.7	47.67mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 11:55:47 AM
2	381.5	49.46mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:58:40 AM
3	373.2	48.39mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:01:35 PM
4	384.5	49.85mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:04:22 PM
5	379.2	49.16mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:07:09 PM

Mean Area 379.6  
 Mean Conc. 49.22mg/L

*Q/W*  
 3-19-14



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
Sample ID: 9060A\_TOC1\_Waters.met  
Origin: Completed  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.45mg/L

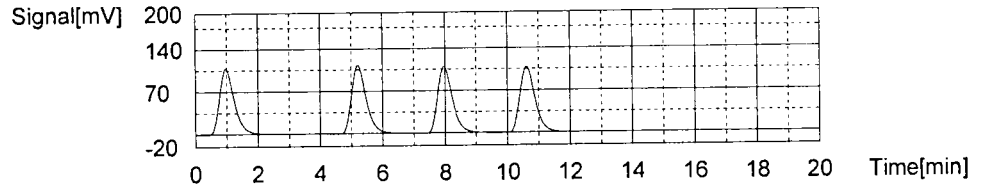
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	369.0	47.84mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:03:17 PM
2	377.2	48.91mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:06:12 PM
3	373.1	48.37mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:08:59 PM
4	375.4	48.67mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:11:44 PM

Mean Area 373.7  
Mean Conc. 48.45mg/L

*AW*  
*3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
Sample ID: 9060A\_TOC1\_Waters.met  
Origin: Completed  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.84mg/L

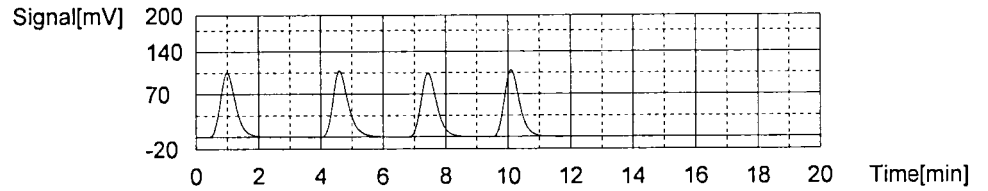
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	369.6	47.92mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:24:34 PM
2	381.6	49.48mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:27:32 PM
3	376.0	48.75mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:30:23 PM
4	379.7	49.23mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:33:10 PM

Mean Area 376.7  
Mean Conc. 48.84mg/L

*AW*  
*3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.i32

Sample

Sample Name: ICV  
Sample ID:  
Origin: 9060A\_TOC1\_Waters.met  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.93mg/L

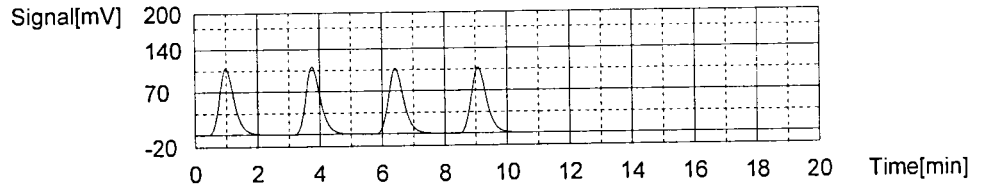
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	370.7	48.06mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:33:58 AM
2	382.8	49.63mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:36:45 AM
3	375.8	48.72mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:39:38 AM
4	380.2	49.29mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:42:26 AM

Mean Area 377.4  
Mean Conc. 48.93mg/L

*BSM*  
*3-19-14*



**Analytical Blank Summary Form 3**

Analytical Batch: INO3016  
 Units: mg/L

Instrument: TOC1  
 Analyst: PSW

**Results by SW-846 9060A**

	<u>132764</u> 03/18/14 00:17	<u>132768</u> 03/18/14 16:25	<u>132778</u> 03/18/14 20:45	<u>132779</u> 03/19/14 00:53
Dissolved Organ			1.00U	1.00U
Total Organic Ca	1.00U	1.00U		

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: CBV  
Sample ID: 9060A\_TOC1\_Waters.met  
Origin: Completed  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2604mg/L

1. Det

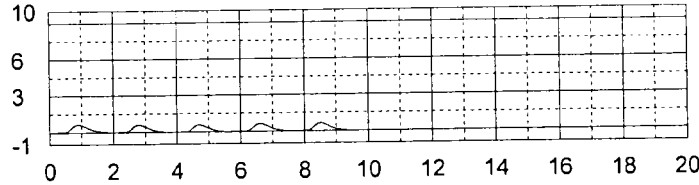
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.209	0.2864mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 12:17:10 PM
2	1.995	0.2587mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:19:13 PM
3	1.944	0.2520mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:21:17 PM
4	2.049	0.2657mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:23:20 PM
5	2.046	0.2653mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:25:24 PM

Mean Area 2.008  
Mean Conc. 0.2604mg/L

*AW*  
*3-19-14*

Signal[mV]



Time[min]

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2545mg/L

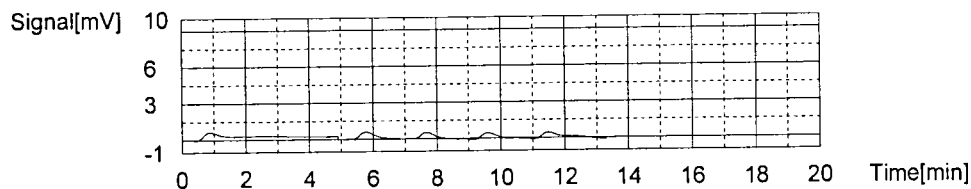
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.089	0.6598mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:25:05 PM
2	1.923	0.2493mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:27:08 PM
3	1.512	0.1960mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:29:12 PM
4	1.512	0.1960mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:31:15 PM
5	2.904	0.3765mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:34:07 PM

Mean Area 1.963  
 Mean Conc. 0.2545mg/L

*81W  
3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: CBV  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4072mg/L

1. Det

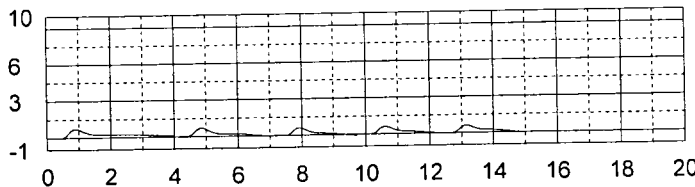
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.589	0.5950mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 8:45:26 PM
2	3.618	0.4691mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:48:40 PM
3	2.949	0.3823mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:51:30 PM
4	2.783	0.3608mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:54:12 PM
5	3.213	0.4166mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:57:01 PM

Mean Area 3.141  
 Mean Conc. 0.4072mg/L

*RAM*  
*3-19-14*

Signal[mV]



Time[min]



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4038mg/L

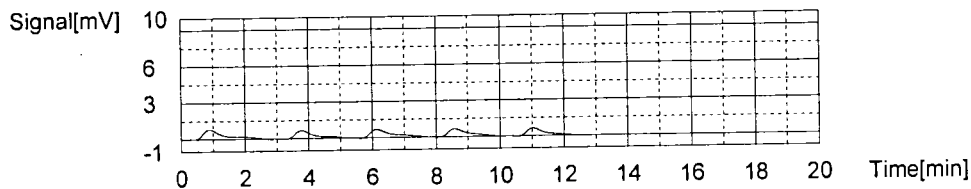
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.283	0.5553mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/19/2014 12:53:40 AM
2	2.938	0.3809mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:56:12 AM
3	3.330	0.4317mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:58:47 AM
4	3.443	0.4464mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 1:01:26 AM
5	2.746	0.3560mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 1:03:54 AM

Mean Area 3.114  
 Mean Conc. 0.4038mg/L

*DM*  
 3-19-14





## Laboratory Report of Analysis

To: Delaney Peterson  
 ANCHOR ENVIRONMENTAL  
 720 Olive Way  
 Suite 1900  
 Seattle, WA 98101  
 US

Report Number: **31400389**

Client Project: **Patrick Bayou Superfund Site**

Dear Delaney Peterson,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
 SGS North America Inc.

\_\_\_\_\_  
 Jeannie Milholland  
 QA Director  
 jeannie.milholland@sgs.com

\_\_\_\_\_  
 Date

**ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.**

## Laboratory Qualifiers

### Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

### Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

**Sample Summary**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
PB020-1SWMID-140313-N	31400389001	03/13/2014 12:36	03/14/2014 09:40	Water
PB031.1-1SWMID-140313-N	31400389002	03/13/2014 13:25	03/14/2014 09:40	Water
PB047.3-1SWMID-140313-N	31400389003	03/13/2014 14:28	03/14/2014 09:40	Water
PB056_C-1SWMID-140313-N	31400389004	03/13/2014 15:45	03/14/2014 09:40	Water
EF006.1-1SWMID-140313-N	31400389005	03/13/2014 15:00	03/14/2014 09:40	Water
PB119_B-1SWMID-140313-N	31400389006	03/13/2014 16:10	03/14/2014 09:40	Water

**Case Narrative**

9060A - Sample for analysis for DOC was filtered and preserved immediately upon receipt per SGS SOP. The DOC results are greater than the TOC results. SGS confirmed via blank analyses that the filtering process in the laboratory did not cause an elevated DOC result. The higher DOC result may be due to the sampling process or the elapsed time from sampling to receipt and processing at the lab.

2540-D - Revised report to J flag TSS results down to the MDL in order to meet the reporting limit requirements of the SAP for this project.



**Detectable Results Summary**

Client Sample ID: **PB020-1SWMID-140313-N**

Lab Sample ID: 31400389001-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	7.12	mg/L

Client Sample ID: **PB031.1-1SWMID-140313-N**

Lab Sample ID: 31400389002-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	6.79	mg/L

Client Sample ID: **PB047.3-1SWMID-140313-N**

Lab Sample ID: 31400389003-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	5.69	mg/L

Client Sample ID: **PB056\_C-1SWMID-140313-N**

Lab Sample ID: 31400389004-E	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SM 2540-D</b>	Total Suspended Solids	34.0	mg/L
<b>SW-846 9060A</b>	Dissolved Organic Carbon	12.9	mg/L
	Total Organic Carbon	9.34	mg/L

Client Sample ID: **EF006.1-1SWMID-140313-N**

Lab Sample ID: 31400389005-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	6.44	mg/L

Client Sample ID: **PB119\_B-1SWMID-140313-N**

Lab Sample ID: 31400389006-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	8.12	mg/L



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

**PROJECT INFO:**PROJECT: *Patrick Bayou Superfund Site*

PO. #:

QUOTE #:

SITE REF: *040284-01.08*TURN AROUND TIME: *Standard*REPORT LEVEL: (see reverse)  Level I  Level II  Level IVSPECIAL DELIVERABLES:  State of Origin:  Other: DOD: SEND DOCUMENTATION / RESULTS TO:  
COMPANY: *AnchorDEA, LLC*CONTACT: *Delaney Peterson*ADDRESS: *720 Olive Way, Ste 300*PHONE: *SeaHk WA 98101*EMAIL: *206-287-9130*INVOICE TO:  CHECK IF SAME  
EMAIL: *dpetuson@anchorage.com*COMPANY: *PNL*CONTACT: *Bob Piniowski*

ADDRESS:

PHONE: *919-435-0934*EMAIL: *bobp@projectnavigator.com***SPECIAL INSTRUCTIONS / COMMENTS:***31400389*

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	MS	MSD	DUP	TYPE (C, G)	MATRIX	CONT. QTY	REMARKS
	<i>PB020-7-15W MID-140313-N</i>	<i>3/13/14</i>	<i>1236</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>* Filter upon receipt</i>
	<i>PB031.1-15W MID-140313-N</i>	<i>3/13/14</i>	<i>1325</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>** Filter and preserve</i>
	<i>PB047.3-15W MID-140313-N</i>	<i>3/13/14</i>	<i>1428</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>* Filter upon receipt</i>
	<i>PB056-C-15W MID-140313-N</i>	<i>3/13/14</i>	<i>1545</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>Archive</i>
	<i>EB006.1-15W MID-140313-N</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>DOC **</i>
	<i>PB119-B-15W MID-140313-N</i>	<i>3/13/14</i>	<i>1610</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>TSS</i>
	<i>EBT01</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>4</i>	<i>TOC</i>
	<i>EBT01</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>1</i>	<i>FCB Long.</i>

COLLECTED/RELINQUISHED BY (1):  
*Ami Khan*DATE: *3/13/14* TIME: *1705*RECEIVED BY: *FedEx*RECEIVED BY LABORATORY: *Barbara Nagan* DATE: *14-Mar-14* TIME: *0940*RELINQUISHED BY (2):  
*Jessica Kase*

DATE: TIME:

RECEIVED BY:

COC SEAL:  INTACT  BROKEN  ABSENT  
SAMPLE RECEIPT TEMP: °C *2.8, 2.1, 2.1*  
CARRIER: *FedEx* TRACKING #:  
NOTES:

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Anchor Environmental Work Order No.: 31400389

- |   |  |
|---|--|
| <p>1. <input checked="" type="checkbox"/> Shipped<br/><input type="checkbox"/> Hand Delivered</p> <p>2. <input checked="" type="checkbox"/> COC Present on Receipt<br/><input type="checkbox"/> No COC<br/><input type="checkbox"/> Additional Transmittal Forms</p> <p>3. <input checked="" type="checkbox"/> Custody Tape on Container<br/><input type="checkbox"/> No Custody Tape</p> <p>4. <input checked="" type="checkbox"/> Samples Intact<br/><input type="checkbox"/> Samples Broken / Leaking</p> <p>5. <input checked="" type="checkbox"/> Chilled on Receipt    Actual Temp.(s) in °C: <u>2.8, 2.1, 2.1</u>    Thermometer ID#: <u>Login-1D</u><br/><input type="checkbox"/> Ambient on Receipt<br/><input type="checkbox"/> Walk-in on Ice; Coming down to temp.<br/><input checked="" type="checkbox"/> Temperature Blank Present</p> <p>6. <input checked="" type="checkbox"/> Sufficient Sample Submitted<br/><input type="checkbox"/> Insufficient Sample Submitted</p> <p>7. <input type="checkbox"/> Chlorine absent<br/><input type="checkbox"/> HNO3 &lt; 2<br/><input checked="" type="checkbox"/> HCL &lt; 2<br/><input type="checkbox"/> Additional Preservatives verified (see notes)</p> <p>8. <input checked="" type="checkbox"/> Received Within Holding Time<br/><input type="checkbox"/> Not Received Within Holding Time</p> <p>9. <input checked="" type="checkbox"/> No Discrepancies Noted<br/><input type="checkbox"/> Discrepancies Noted<br/><input type="checkbox"/> NCDENR notified of Discrepancies*</p> <p>10. <input type="checkbox"/> No Headspace present in VOC vials<br/><input type="checkbox"/> Headspace present in VOC vials &gt;6mm</p> | <p>Notes: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
|---|--|

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Inspected and Logged in by: RCH  
Date: Fri-3/14/14 00:00



# SM 2540-D

## Sample Data



Results of **PB020-1SWMID-140313-N**

Client Sample ID: **PB020-1SWMID-140313-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400389001-C  
Lab Project ID: 31400389

Collection Date: 03/13/2014 12:36  
Received Date: 03/14/2014 09:40  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	20.0	J	3.60	25.0	mg/L	1	03/14/2014 17:50

**Batch Information**

Analytical Batch: **INO3014**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3014**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/14/2014 17:50**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



Results of **PB031.1-1SWMID-140313-N**

Client Sample ID: **PB031.1-1SWMID-140313-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400389002-C  
Lab Project ID: 31400389

Collection Date: 03/13/2014 13:25  
Received Date: 03/14/2014 09:40  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	16.0	J	3.60	25.0	mg/L	1	03/14/2014 17:51

**Batch Information**

Analytical Batch: **INO3014**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3014**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/14/2014 17:51**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



**Results of PB047.3-1SWMID-140313-N**

Client Sample ID: **PB047.3-1SWMID-140313-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400389003-C  
Lab Project ID: 31400389

Collection Date: 03/13/2014 14:28  
Received Date: 03/14/2014 09:40  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	18.0	J	3.60	25.0	mg/L	1	03/14/2014 17:51

**Batch Information**

Analytical Batch: **INO3014**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3014**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/14/2014 17:51**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of PB056\_C-1SWMID-140313-N**

Client Sample ID: **PB056\_C-1SWMID-140313-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400389004-E  
Lab Project ID: 31400389

Collection Date: 03/13/2014 15:45  
Received Date: 03/14/2014 09:40  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	<b>34.0</b>		3.60	25.0	mg/L	1	03/14/2014 17:52

**Batch Information**

Analytical Batch: **INO3014**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3014**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/14/2014 17:52**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of EF006.1-1SWMID-140313-N**

Client Sample ID: **EF006.1-1SWMID-140313-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400389005-C  
 Lab Project ID: 31400389

Collection Date: 03/13/2014 15:00  
 Received Date: 03/14/2014 09:40  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	11.0	J	3.60	25.0	mg/L	1	03/14/2014 17:52

**Batch Information**

Analytical Batch: **INO3014**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3014**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/14/2014 17:52**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



Results of **PB119\_B-1SWMID-140313-N**

Client Sample ID: **PB119\_B-1SWMID-140313-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400389006-C  
Lab Project ID: 31400389

Collection Date: 03/13/2014 16:10  
Received Date: 03/14/2014 09:40  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	7.0	J	3.60	25.0	mg/L	1	03/14/2014 17:53

**Batch Information**

Analytical Batch: **INO3014**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3014**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/14/2014 17:53**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



5500 Business Drive  
Wilmington, NC 28405

# Total Suspended Solids

SM 2540 D

Batch: <b>INO 3014</b>	Balance: <b>BAL10</b>	In Oven Date: 3/14/2014
Analyst: <b>VS</b>	Oven: <b>Oven #6</b>	In Oven Time: 14:36
StandardID: <b>TSA15</b>	In Oven Temp: <b>105</b>	Out Oven Date: 3/14/2014
	Out Oven Temp: <b>105</b>	Out Oven Time: 15:58

Type	Lab ID	Vol mL	Filter Lot #	Analyzed Date	Analyzed Time	Filter g	Final g	Result mg/L
MB	132298	100	INV2	03/14/2014	14:17	0.1171	0.1169	-2
LCS	132299	25	INV2	03/14/2014	14:17	0.1174	0.1286	448
SAMPLE	31400373001	100	INV2	03/14/2014	14:17	0.1195	0.1206	11
DUP	132300	100	INV2	03/14/2014	14:17	0.1179	0.1190	11
SAMPLE	31400373002	100	INV2	03/14/2014	14:17	0.1228	0.1245	17
SAMPLE	31400373003	100	INV2	03/14/2014	14:17	0.1224	0.1238	14
SAMPLE	31400386001	100	INV2	03/14/2014	14:17	0.1177	0.1177	0
SAMPLE	31400389001	100	INV2	03/14/2014	14:17	0.1194	0.1214	20
SAMPLE	31400389002	100	INV2	03/14/2014	14:17	0.1242	0.1258	16
SAMPLE	31400389003	100	INV2	03/14/2014	14:17	0.1183	0.1201	18
SAMPLE	31400389004	100	INV2	03/14/2014	14:18	0.1190	0.1224	34
SAMPLE	31400389005	100	INV2	03/14/2014	14:18	0.1192	0.1203	11
SAMPLE	31400389006	100	INV2	03/14/2014	14:18	0.1171	0.1178	7

**Analyst Signature**

3-14-14

**Date**

Analyst signature indicates that the data printed is a true representation of volumes and weights encountered in the analytical process. Weights are obtained through overnight drying at 105C.

The calculation of TSS is: 
$$\frac{(F2 - F1) \times 1,000,000}{V1} = \text{mg/L TSS}$$

Where: F2 = Final (g)  
F1 = Filter (g)  
V1 = Vol (mL)

Printed: 3/14/2014 5:37:49 PM

1 of 1 Pages



# SM 2540-D

## QC, Blanks Data

**Batch Summary**

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Prep Batch: INO3014

Prep Date: 03/14/2014 17:44

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41318 [INO/3014]	132298	03/14/2014 17:44	INO3014	BAL10	VS
LCS for HBN 41318 [INO/3014]	132299	03/14/2014 17:47	INO3014	BAL10	VS
PB006.2-1SWMID-1...(132120DUP)	132300	03/14/2014 17:49	INO3014	BAL10	VS
PB020-1SWMID-140313-N	31400389001	03/14/2014 17:50	INO3014	BAL10	VS
PB031.1-1SWMID-140313-N	31400389002	03/14/2014 17:51	INO3014	BAL10	VS
PB047.3-1SWMID-140313-N	31400389003	03/14/2014 17:51	INO3014	BAL10	VS
PB056_C-1SWMID-140313-N	31400389004	03/14/2014 17:52	INO3014	BAL10	VS
EF006.1-1SWMID-140313-N	31400389005	03/14/2014 17:52	INO3014	BAL10	VS
PB119_B-1SWMID-140313-N	31400389006	03/14/2014 17:53	INO3014	BAL10	VS

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41318 [INO/3014]  
 Blank Lab ID: 132298  
 Prep Batch: INO3014

Matrix: Water  
 Analysis Date/Time: 03/14/2014 17:44

**Results by SM 2540-D**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41318 [INO/3014]	132299		03/14/2014 17:47	VS
PB006.2-1SWMID-1...(132120DUP)	132300		03/14/2014 17:49	VS
PB020-1SWMID-140313-N	31400389001		03/14/2014 17:50	VS
PB031.1-1SWMID-140313-N	31400389002		03/14/2014 17:51	VS
PB047.3-1SWMID-140313-N	31400389003		03/14/2014 17:51	VS
PB056_C-1SWMID-140313-N	31400389004		03/14/2014 17:52	VS
EF006.1-1SWMID-140313-N	31400389005		03/14/2014 17:52	VS
PB119_B-1SWMID-140313-N	31400389006		03/14/2014 17:53	VS

**Method Blank**

Blank ID: MB for HBN 41318 [INO/3014]

Matrix: Water

Blank Lab ID: 132298

QC for Samples:

31400389001, 31400389002, 31400389003, 31400389004, 31400389005, 31400389006

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1

**Batch Information**

Analytical Batch: INO3014

Prep Batch: INO3014

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Instrument: BAL10

Prep Date/Time: 3/14/2014 5:44:34PM

Analyst: VS

Prep Initial Wt./Vol.: 1 mL

Prep Extract Vol: 1 mL

**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41318 [INO/3014]  
 Blank Spike Lab ID: 132299  
 Date Analyzed: 03/14/2014 17:47

Matrix: Water

QC for Samples: 31400389001, 31400389002, 31400389003, 31400389004, 31400389005, 31400389006

**Results by SM 2540-D**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Suspended Solids	500	448	90	80.0-120

**Batch Information**

Analytical Batch: **INO3014**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3014**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/14/2014 17:47**  
 Spike Init Wt./Vol.: **1 mL** Extract Vol: **1 mL**  
 Dupe Init Wt./Vol.:     Extract Vol:

# SW-846 9060A

## Sample Data

**Results of PB020-1SWMID-140313-N**

Client Sample ID: **PB020-1SWMID-140313-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400389001-A  
 Lab Project ID: 31400389

Collection Date: 03/13/2014 12:36  
 Received Date: 03/14/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	7.12		1.00	mg/L	1	03/18/2014 15:18

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 15:18**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0389\_1  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:7.123mg/L

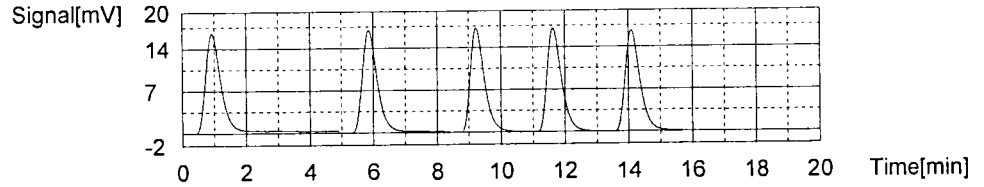
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.39	7.570mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 3:18:08 PM
2	56.48	7.323mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:21:42 PM
3	53.74	6.968mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:24:16 PM
4	54.70	7.092mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:26:51 PM
5	54.85	7.111mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:29:29 PM

Mean Area 54.94  
 Mean Conc. 7.123mg/L

*BSW  
3-19-14*





**Results of PB031.1-1SWMID-140313-N**

Client Sample ID: **PB031.1-1SWMID-140313-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400389002-A  
 Lab Project ID: 31400389

Collection Date: 03/13/2014 13:25  
 Received Date: 03/14/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	<b>6.79</b>		1.00	mg/L	1	03/18/2014 15:41

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 15:41**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0389\_2  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.785mg/L

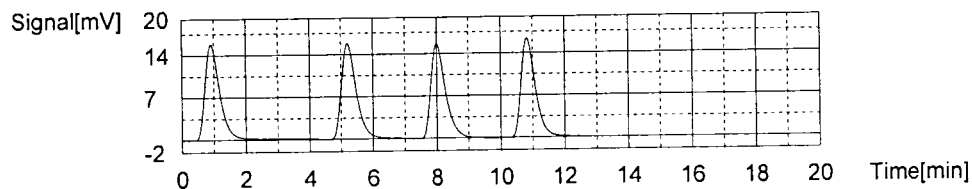
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	52.84	6.851mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:41:52 PM
2	52.25	6.774mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:44:50 PM
3	51.70	6.703mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:47:49 PM
4	52.54	6.812mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 3:50:50 PM

Mean Area 52.33  
 Mean Conc. 6.785mg/L

*QW  
3-19-14*



**Results of PB047.3-1SWMID-140313-N**

Client Sample ID: **PB047.3-1SWMID-140313-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400389003-A  
 Lab Project ID: 31400389

Collection Date: 03/13/2014 14:28  
 Received Date: 03/14/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	<b>5.69</b>		1.00	mg/L	1	03/18/2014 16:46

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 16:46**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0389\_3  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.691mg/L

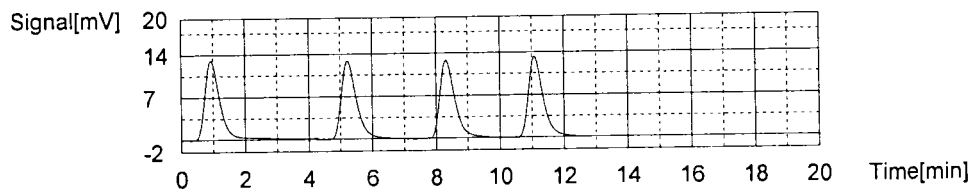
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	44.45	5.763mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:46:31 PM
2	44.10	5.718mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:49:45 PM
3	43.22	5.604mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:52:41 PM
4	43.81	5.680mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:55:32 PM

Mean Area 43.90  
 Mean Conc. 5.691mg/L

*ββm*  
*3-19-14*



Results of **PB056\_C-1SWMID-140313-N**

Client Sample ID: **PB056\_C-1SWMID-140313-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400389004-C  
 Lab Project ID: 31400389

Collection Date: 03/13/2014 15:45  
 Received Date: 03/14/2014 09:40  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dissolved Organic Carbon	<b>12.9</b>		1.00	mg/L	1	03/18/2014 23:53
Total Organic Carbon	<b>9.34</b>		1.00	mg/L	1	03/18/2014 17:07

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 17:07**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 23:53**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0389\_4  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:12.92mg/L

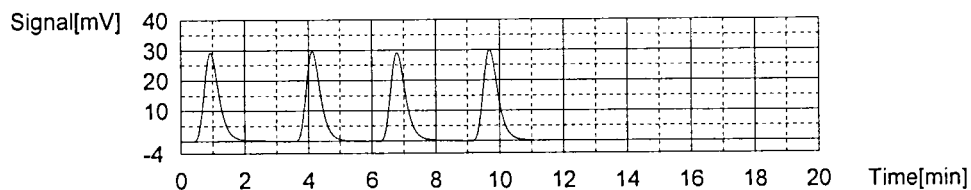
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.27	12.87mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:53:55 PM
2	100.0	12.97mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:56:45 PM
3	99.05	12.84mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:59:48 PM
4	100.4	13.02mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:02:37 AM

Mean Area 99.68  
 Mean Conc. 12.92mg/L

*Am*  
 3-19-14



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0389\_4  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.340mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.27	9.370mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 5:07:29 PM
2	72.39	9.386mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 5:10:41 PM
3	71.40	9.257mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 5:13:42 PM
4	72.08	9.345mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 5:16:35 PM

Mean Area 72.04  
 Mean Conc. 9.340mg/L

*AM*  
 3-19-14



**Results of EF006.1-1SWMID-140313-N**

Client Sample ID: **EF006.1-1SWMID-140313-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400389005-A  
 Lab Project ID: 31400389

Collection Date: 03/13/2014 15:00  
 Received Date: 03/14/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	<b>6.44</b>		1.00	mg/L	1	03/18/2014 17:29

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 17:29**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0389\_5  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.443mg/L

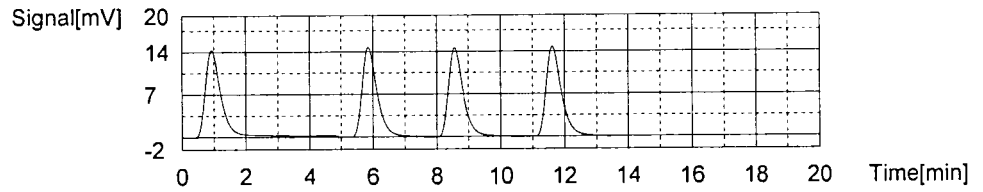
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50.88	6.597mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:29:42 PM
2	48.87	6.336mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:32:34 PM
3	48.98	6.350mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:35:48 PM
4	50.06	6.490mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:38:43 PM

Mean Area 49.70  
 Mean Conc. 6.443mg/L

*08m  
3-19-14*





Results of **PB119\_B-1SWMID-140313-N**

Client Sample ID: **PB119\_B-1SWMID-140313-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400389006-A  
Lab Project ID: 31400389

Collection Date: 03/13/2014 16:10  
Received Date: 03/14/2014 09:40  
Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	8.12		1.00	mg/L	1	03/18/2014 17:51

**Batch Information**

Analytical Batch: **INO3016**  
Analytical Method: **SW-846 9060A**  
Instrument: **TOC1**  
Analyst: **PSW**

Prep Batch: **INO3016**  
Prep Method: **SW-846 9060A**  
Prep Date/Time: **03/18/2014 17:51**  
Prep Initial Wt./Vol.: **40 mL**  
Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0389\_6  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:8.116mg/L

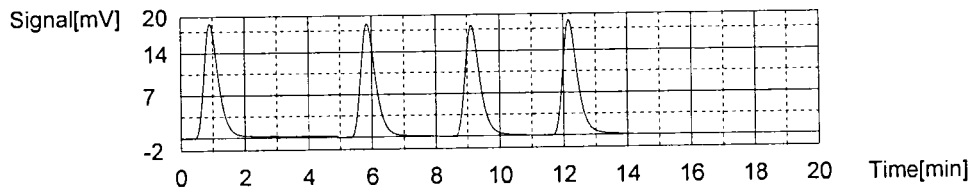
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.92	8.158mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:51:50 PM
2	62.82	8.145mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:55:15 PM
3	61.69	7.998mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 5:58:29 PM
4	62.97	8.164mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 6:01:34 PM

Mean Area 62.60  
 Mean Conc. 8.116mg/L

*dim*  
 3-19-14



# SW-846 9060A

## QC, Blanks Data

**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A  
 Prep Batch: INO3016  
 Prep Date: 03/18/2014 00:53

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41460 [INO/3016]	132565	03/18/2014 00:53	INO3016	TOC1	PSW
LCS for HBN 41460 [INO/3016]	132566	03/18/2014 13:11	INO3016	TOC1	PSW
PB006.2-1SWMID-14...(132120MS)	132567	03/18/2014 13:49	INO3016	TOC1	PSW
PB006.2-1SWMID-1...(132120MSD)	132568	03/18/2014 14:09	INO3016	TOC1	PSW
PB020-1SWMID-140313-N	31400389001	03/18/2014 15:18	INO3016	TOC1	PSW
PB031.1-1SWMID-140313-N	31400389002	03/18/2014 15:41	INO3016	TOC1	PSW
PB047.3-1SWMID-140313-N	31400389003	03/18/2014 16:46	INO3016	TOC1	PSW
PB056_C-1SWMID-140313-N	31400389004	03/18/2014 17:07	INO3016	TOC1	PSW
EF006.1-1SWMID-140313-N	31400389005	03/18/2014 17:29	INO3016	TOC1	PSW
PB119_B-1SWMID-140313-N	31400389006	03/18/2014 17:51	INO3016	TOC1	PSW
PB097A-1SWMID-14...(132401DUP)	132569	03/18/2014 21:28	INO3016	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41460 [INO/3016]  
 Blank Lab ID: 132565  
 Prep Batch: INO3016

Matrix: Water  
 Analysis Date/Time: 03/18/2014 00:53

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41460 (INO/3016)	132764	INO3016.csv	03/18/2014 00:17	PSW
LCS for HBN 41460 [INO/3016]	132566	INO3016.csv	03/18/2014 13:11	PSW
PB006.2-1SWMID-14...(132120MS)	132567	INO3016.csv	03/18/2014 13:49	PSW
PB006.2-1SWMID-1...(132120MSD)	132568	INO3016.csv	03/18/2014 14:09	PSW
PB020-1SWMID-140313-N	31400389001	INO3016.csv	03/18/2014 15:18	PSW
PB031.1-1SWMID-140313-N	31400389002	INO3016.csv	03/18/2014 15:41	PSW
CBV for HBN 41460 (INO/3016)	132768	INO3016.csv	03/18/2014 16:25	PSW
PB047.3-1SWMID-140313-N	31400389003	INO3016.csv	03/18/2014 16:46	PSW
PB056_C-1SWMID-140313-N	31400389004	INO3016.csv	03/18/2014 17:07	PSW
EF006.1-1SWMID-140313-N	31400389005	INO3016.csv	03/18/2014 17:29	PSW
PB119_B-1SWMID-140313-N	31400389006	INO3016.csv	03/18/2014 17:51	PSW
CBV for HBN 41460 (INO/3016)	132770	INO3016.csv	03/18/2014 20:45	PSW
PB097A-1SWMID-14...(132401DUP)	132569	INO3016.csv	03/18/2014 21:28	PSW

**Method Blank**

Blank ID: MB for HBN 41460 [INO/3016]

Matrix: Water

Blank Lab ID: 132565

QC for Samples:

31400389001, 31400389002, 31400389003, 31400389004, 31400389005, 31400389006

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3016

Prep Batch: INO3016

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Instrument: TOC1

Prep Date/Time: 3/18/2014 12:53:41AM

Analyst: PSW

Prep Initial Wt./Vol.: 40 mL

Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132565 MB  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2217mg/L

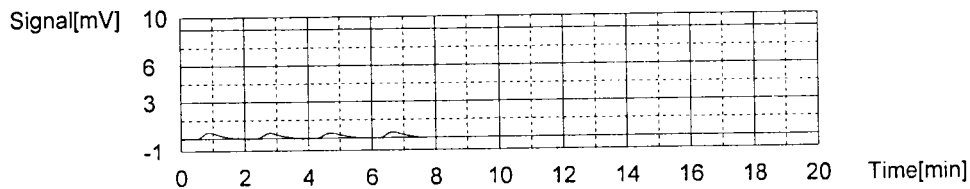
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.756	0.2277mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:53:41 PM
2	1.632	0.2116mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:55:44 PM
3	1.712	0.2220mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:57:51 PM
4	1.741	0.2257mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:59:57 PM

Mean Area 1.710  
 Mean Conc. 0.2217mg/L

*plw*  
*3-14-14*





**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41460 [INO/3016]  
 Blank Spike Lab ID: 132566  
 Date Analyzed: 03/18/2014 13:11

Matrix: Water

QC for Samples: 31400389001, 31400389002, 31400389003, 31400389004, 31400389005, 31400389006

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	48.6	97	90.0-110

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 13:11**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:     Extract Vol:

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132566 LCS  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.57mg/L

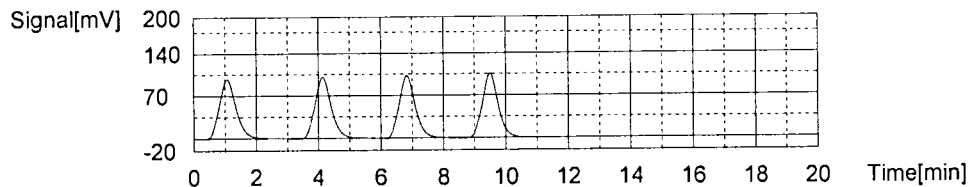
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	371.4	48.15mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:11:11 PM
2	375.9	48.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:14:03 PM
3	371.8	48.21mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:16:51 PM
4	379.5	49.20mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:19:42 PM

Mean Area 374.7  
 Mean Conc. 48.57mg/L

*DMW*  
*3-19-14*



**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3017

Prep Date: 03/18/2014 21:49

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB-F1 for HBN 41461 [INO/3017]	132570	03/18/2014 21:49	INO3017	TOC1	PSW
LCS for HBN 41461 [INO/3017]	132571	03/18/2014 22:12	INO3017	TOC1	PSW
PB006.2-1SWMID-14...(132121MS)	132572	03/18/2014 22:52	INO3017	TOC1	PSW
PB006.2-1SWMID-1...(132121MSD)	132573	03/18/2014 23:12	INO3017	TOC1	PSW
PB056_C-1SWMID-140313-N	31400389004	03/18/2014 23:53	INO3017	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB-F1 for HBN 41461 [INO/3017]  
 Blank Lab ID: 132570  
 Prep Batch: INO3017

Matrix: Water  
 Analysis Date/Time: 03/18/2014 21:49

Results by **SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41461 (INO/3017)	132778	INO3017.csv	03/18/2014 20:45	PSW
LCS for HBN 41461 [INO/3017]	132571	INO3017.csv	03/18/2014 22:12	PSW
PB006.2-1SWMID-14...(132121MS)	132572	INO3017.csv	03/18/2014 22:52	PSW
PB006.2-1SWMID-1...(132121MSD)	132573	INO3017.csv	03/18/2014 23:12	PSW
PB056_C-1SWMID-140313-N	31400389004	INO3017.csv	03/18/2014 23:53	PSW
CBV for HBN 41461 (INO/3017)	132779	INO3017.csv	03/19/2014 00:53	PSW

**Method Blank**

Blank ID: MB-F1 for HBN 41461 [INO/3017]  
 Blank Lab ID: 132570  
 QC for Samples:  
 31400389004

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Dissolved Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3017  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3017  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/18/2014 9:49:14PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132570 MB-F1  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3902mg/L

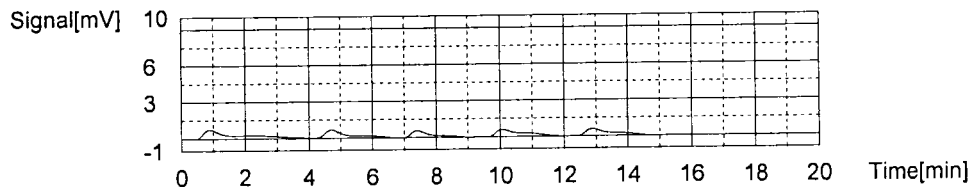
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.787	0.6207mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 9:49:14 PM
2	2.834	0.3674mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:52:05 PM
3	2.839	0.3681mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:54:54 PM
4	3.525	0.4570mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:57:52 PM
5	2.840	0.3682mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:00:33 PM

Mean Area 3.010  
 Mean Conc. 0.3902mg/L

*BM*  
*3-19-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41461 [INO/3017]  
 Blank Spike Lab ID: 132571  
 Date Analyzed: 03/18/2014 22:12

Matrix: Water

QC for Samples: 31400389004

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Dissolved Organic Carbon	50.0	49.1	98	90.0-110

**Batch Information**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 22:12**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132571 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.14mg/L

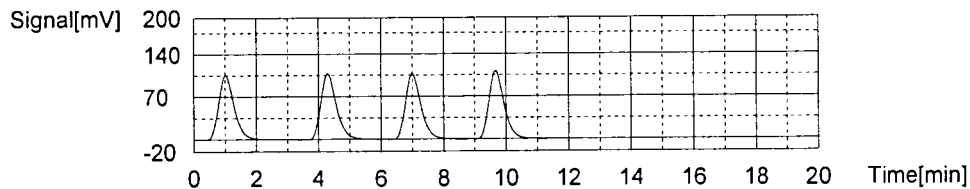
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	373.3	48.40mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:12:00 PM
2	384.3	49.83mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:14:52 PM
3	375.9	48.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:17:42 PM
4	382.6	49.61mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:20:30 PM

Mean Area 379.0  
 Mean Conc. 49.14mg/L

*AW  
3-19-14*





# SW-846 9060A

## Prep, Standard, Run Logs

SGS Environmental Services

TOC Runlog Sheet

Method: 9060

Batch: INO3016

IND 3017

Matrix: Water

Primary Std Lot#: D-437

Initial Cal. Curve: ICAL-030414W

Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/18/2014 11:55	PSW			
CBV ✓	3/18/2014 12:17	PSW			
NEG ✓	3/18/2014 12:35	PSW			
132565 MB ✓	3/18/2014 12:53	PSW			
132566 LCS ✓	3/18/2014 13:11	PSW			
0373_1	3/18/2014 13:30	PSW			
132567 MS ✓	3/18/2014 13:49	PSW			
132568 MSD ✓	3/18/2014 14:09	PSW			
0373_2	3/18/2014 14:30	PSW			
0373_3	3/18/2014 14:52	PSW			
0389_1	3/18/2014 15:18	PSW			
0389_2	3/18/2014 15:41	PSW			
3016 ICV ✓	3/18/2014 16:03	PSW			
CBV ✓	3/18/2014 16:25	PSW			
0389_3	3/18/2014 16:46	PSW			
0389_4	3/18/2014 17:07	PSW			
0389_5	3/18/2014 17:29	PSW			
0389_6	3/18/2014 17:51	PSW			
0395_1	3/18/2014 18:14	PSW			
0395_2	3/18/2014 18:36	PSW			
0395_3	3/18/2014 18:58	PSW			

IND

Analyst: \_\_\_\_\_

# SGS Environmental Services

## TOC Runlog Sheet

Method: 9060 Batch: INO3016  
 Matrix: Water Primary Std Lot#: D-437  
 Initial Cal. Curve: ICAL-030414W Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
0395_4	3/18/2014 19:20	PSW			
0395_5	3/18/2014 19:42	PSW			
0395_6	3/18/2014 20:03	PSW			
ICV ✓	3/18/2014 20:24	PSW			
CBV ✓	3/18/2014 20:45	PSW			
0395_7	3/18/2014 21:08	PSW			
132569 DUP	3/18/2014 21:28	PSW			
132570 MB-F1 ✓	3/18/2014 21:49	PSW			
132571 LCS ✓	3/18/2014 22:12	PSW			
0373_2	3/18/2014 22:32	PSW			
132572 MS ✓	3/18/2014 22:52	PSW			
132573 MSD ✓	3/18/2014 23:12	PSW			
0373_1	3/18/2014 23:33	PSW			
0389_4	3/18/2014 23:53	PSW			
0395_4	3/19/2014 0:14	PSW			
ICV ✓	3/19/2014 0:33	PSW			
CBV ✓	3/19/2014 0:53	PSW			
0395_7 Sample on	3/19/2014 1:15	PSW			
132574 DUP held	3/19/2014 1:35	PSW			
ICV ✓	3/19/2014 1:56	PSW			
CBV - 100	3/19/2014 2:16	PSW			

# SW-846 9060A

## Initial Calibration Data

REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.t32

Cal. Curve

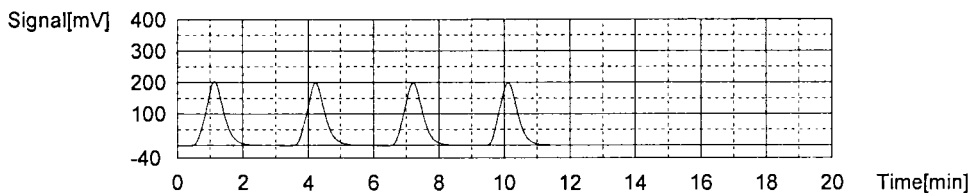
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 030414W.2014\_03\_04\_13\_51\_57.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	778.3	100ul	1	*****		3/4/2014 2:00:59 PM
2	774.6	100ul	1	*****		3/4/2014 2:06:27 PM
3	776.1	100ul	1	*****		3/4/2014 2:11:52 PM
4	769.8	100ul	1	*****		3/4/2014 2:17:17 PM

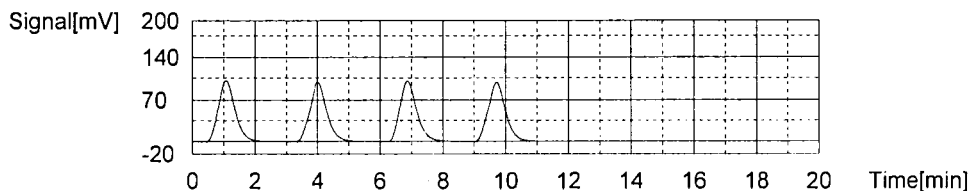
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 774.7 ✓  
*ANW 3-5-14*



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	382.0	100ul	1	*****		3/4/2014 2:27:08 PM
2	381.1	100ul	1	*****		3/4/2014 2:32:33 PM
3	380.7	100ul	1	*****		3/4/2014 2:37:49 PM
4	380.6	100ul	1	*****		3/4/2014 2:43:10 PM

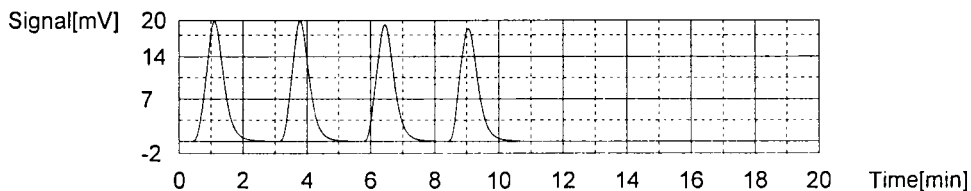
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 381.1 ✓  
*ANW 3-6-14*



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	76.52	100ul	1	*****		3/4/2014 2:52:51 PM
2	75.85	100ul	1	*****		3/4/2014 2:57:58 PM
3	75.13	100ul	1	*****		3/4/2014 3:03:05 PM
4	75.04	100ul	1	*****		3/4/2014 3:08:13 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 75.64 ✓  
*ANW 3-5-14*



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.25	100ul	1	*****		3/4/2014 3:17:22 PM
2	10.24	100ul	1	*****		3/4/2014 3:22:03 PM
3	10.27	100ul	1	*****		3/4/2014 3:26:47 PM
4	10.29	100ul	1	*****		3/4/2014 3:31:30 PM

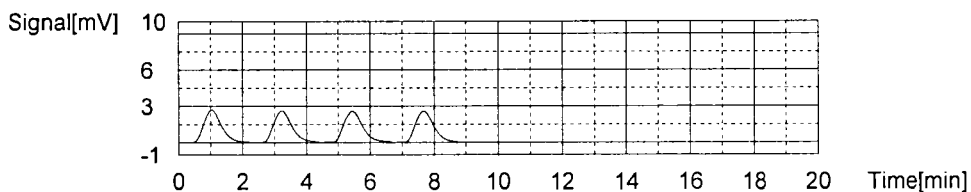
REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.i32

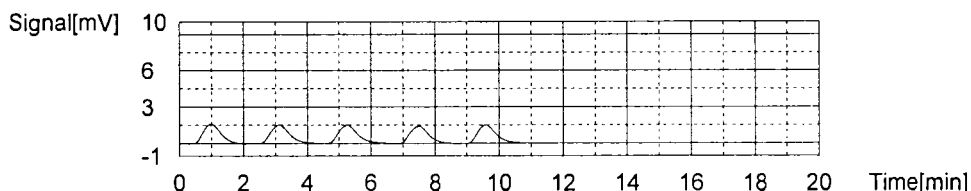
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 10.26 ✓  
*pmw 3-5-14*



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.283	100uL	1	*****		3/4/2014 3:40:32 PM
2	6.118	100uL	1	*****		3/4/2014 3:45:10 PM
3	6.095	100uL	1	*****		3/4/2014 3:49:51 PM
4	5.719	100uL	1	*****	E	3/4/2014 3:54:29 PM
5	5.937	100uL	1	*****		3/4/2014 3:59:05 PM

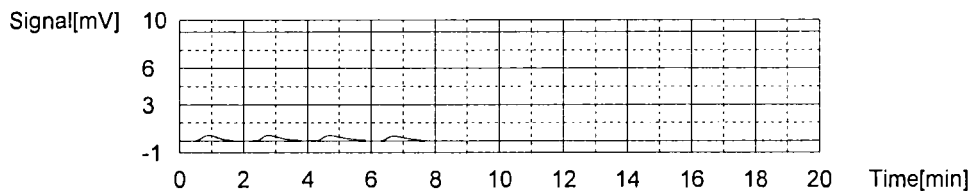
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 6.108 ✓  
*pmw 3-5-14*



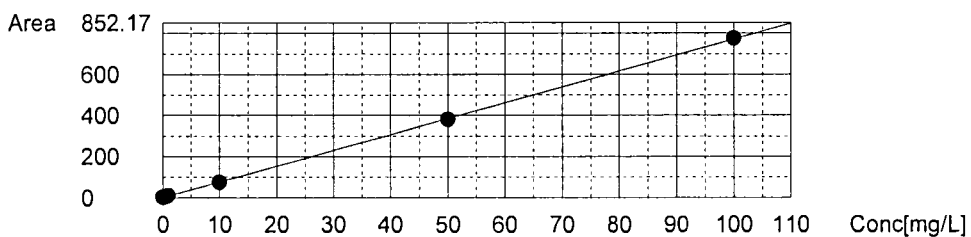
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.725	100uL	1	*****		3/4/2014 4:07:57 PM
2	1.582	100uL	1	*****		3/4/2014 4:12:20 PM
3	1.704	100uL	1	*****		3/4/2014 4:16:49 PM
4	1.572	100uL	1	*****		3/4/2014 4:21:12 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 1.646 ✓  
*pmw 3-5-14*



Slope: 7.713  
 Intercept: 0.000  
 r<sup>2</sup>: 0.999906  
 r: 0.999953  
 Zero Shift: Yes



# SW-846 9060A

## Continuing Calibration Data

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.22mg/L

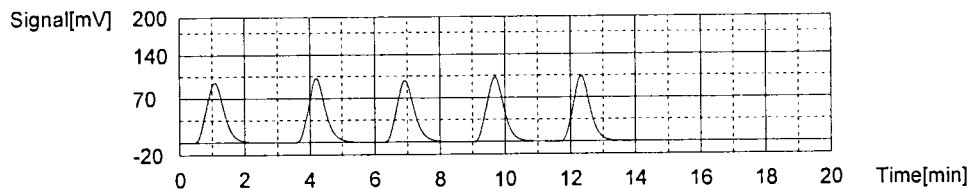
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	367.7	47.67mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 11:55:47 AM
2	381.5	49.46mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 11:58:40 AM
3	373.2	48.39mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:01:35 PM
4	384.5	49.85mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:04:22 PM
5	379.2	49.16mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:07:09 PM

Mean Area 379.6  
 Mean Conc. 49.22mg/L

*Q/W*  
 3-19-14





REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
Sample ID: 9060A\_TOC1\_Waters.met  
Origin: Completed  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.45mg/L

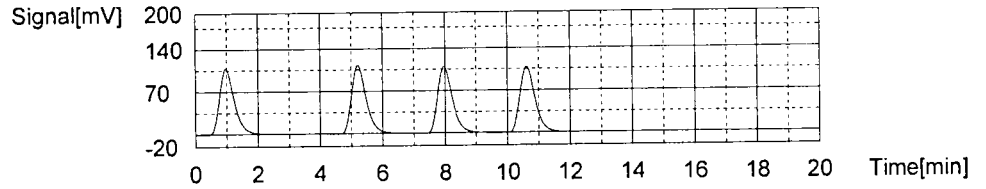
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	369.0	47.84mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:03:17 PM
2	377.2	48.91mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:06:12 PM
3	373.1	48.37mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:08:59 PM
4	375.4	48.67mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:11:44 PM

Mean Area 373.7  
Mean Conc. 48.45mg/L

*AW*  
*3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
Sample ID: 9060A\_TOC1\_Waters.met  
Origin: Completed  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.84mg/L

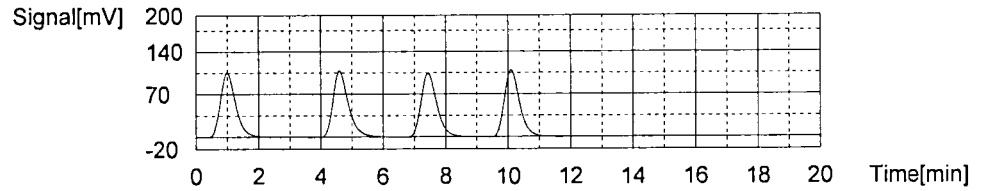
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	369.6	47.92mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:24:34 PM
2	381.6	49.48mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:27:32 PM
3	376.0	48.75mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:30:23 PM
4	379.7	49.23mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:33:10 PM

Mean Area 376.7  
Mean Conc. 48.84mg/L

*AW*  
*3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.i32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.93mg/L

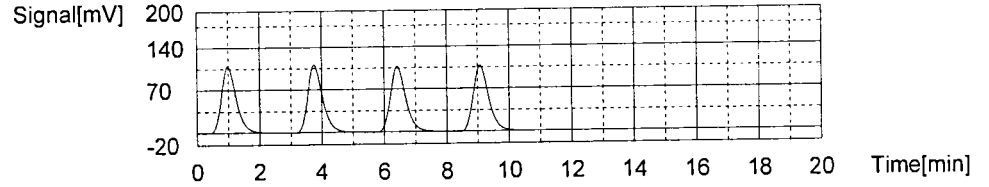
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	370.7	48.06mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:33:58 AM
2	382.8	49.63mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:36:45 AM
3	375.8	48.72mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:39:38 AM
4	380.2	49.29mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:42:26 AM

Mean Area 377.4  
 Mean Conc. 48.93mg/L

*BSM  
3-19-14*



**Analytical Blank Summary Form 3**

Analytical Batch: INO3016  
 Units: mg/L

Instrument: TOC1  
 Analyst: PSW

**Results by SW-846 9060A**

	<u>132764</u> 03/18/14 00:17	<u>132768</u> 03/18/14 16:25	<u>132770</u> 03/18/14 20:45	<u>132778</u> 03/18/14 20:45	<u>132779</u> 03/19/14 00:53
Dissolved Organ				1.00U	1.00U
Total Organic Ca	1.00U	1.00U	1.00U		

REVISED REPORT

Sample

Sample Name: CBV  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2604mg/L

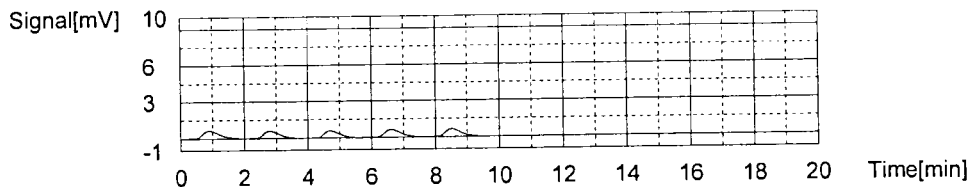
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.209	0.2864mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 12:17:10 PM
2	1.995	0.2587mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:19:13 PM
3	1.944	0.2520mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:21:17 PM
4	2.049	0.2657mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:23:20 PM
5	2.046	0.2653mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:25:24 PM

Mean Area 2.008  
 Mean Conc. 0.2604mg/L

*AW*  
 3-19-14



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2545mg/L

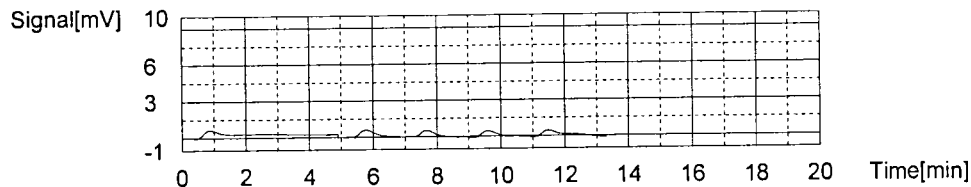
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.089	0.6598mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:25:05 PM
2	1.923	0.2493mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:27:08 PM
3	1.512	0.1960mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:29:12 PM
4	1.512	0.1960mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:31:15 PM
5	2.904	0.3765mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:34:07 PM

Mean Area 1.963  
 Mean Conc. 0.2545mg/L

*81W  
3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: CBV  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4072mg/L

1. Det

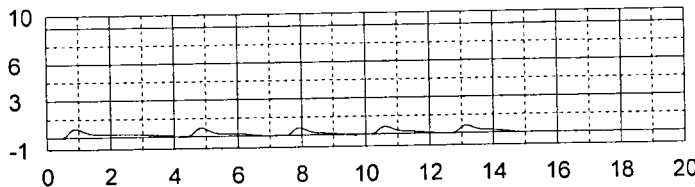
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.589	0.5950mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 8:45:26 PM
2	3.618	0.4691mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:48:40 PM
3	2.949	0.3823mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:51:30 PM
4	2.783	0.3608mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:54:12 PM
5	3.213	0.4166mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:57:01 PM

Mean Area 3.141  
 Mean Conc. 0.4072mg/L

*AMV*  
*3-19-14*

Signal[mV]



Time[min]

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4038mg/L

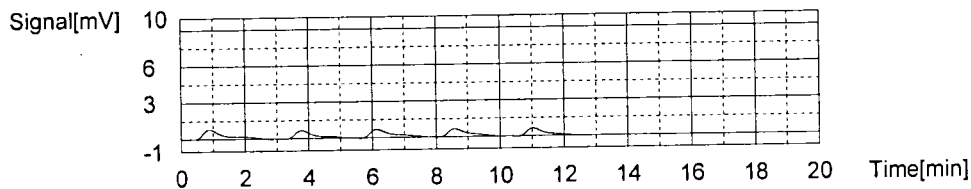
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.283	0.5553mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/19/2014 12:53:40 AM
2	2.938	0.3809mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:56:12 AM
3	3.330	0.4317mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:58:47 AM
4	3.443	0.4464mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 1:01:26 AM
5	2.746	0.3560mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 1:03:54 AM

Mean Area 3.114  
 Mean Conc. 0.4038mg/L

*DM*  
 3-19-14







### Laboratory Report of Analysis

To: Delaney Peterson  
 ANCHOR ENVIRONMENTAL  
 720 Olive Way  
 Suite 1900  
 Seattle, WA 98101  
 US

Report Number: **31400395**

Client Project: **Patrick Bayou Superfund Site**

Dear Delaney Peterson,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
 SGS North America Inc.

\_\_\_\_\_  
 Jeannie Milholland  
 QA Director  
 jeannie.milholland@sgs.com

\_\_\_\_\_  
 Date

**ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.**

## Laboratory Qualifiers

### Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

### Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

**Sample Summary**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
PB070_B-2SWMID-140314-N	31400395001	03/14/2014 09:10	03/15/2014 10:30	Water
PB070_B-1SWMID-140314-N	31400395002	03/14/2014 13:15	03/15/2014 10:30	Water
PB079-1SWMID-140314-N	31400395003	03/14/2014 14:00	03/15/2014 10:30	Water
PB081_A-1SWMID-140314-N	31400395004	03/14/2014 13:45	03/15/2014 10:30	Water
PB089-1SWMID-140314-N	31400395005	03/14/2014 17:25	03/15/2014 10:30	Water
PB085-1SWMID-140314-N	31400395006	03/14/2014 16:54	03/15/2014 10:30	Water
PB097A-1SWMID-140314-N	31400395007	03/14/2014 17:54	03/15/2014 10:30	Water

**Case Narrative**

9060A - Samples for analysis of DOC were filtered and preserved immediately upon receipt per SGS SOP. On March 19, 2014 per client request the DOC analyses for sample PB097\_A was placed on hold. The DOC result for sample PB081\_A-1SWMID-140314-N s are greater than the TOC results. The higher DOC result may be due to the sampling process, the particular push filters that were used or the elapsed time from sampling to receipt and processing at the lab.

2540-D - Revised report to J flag TSS results down to the MDL in order to meet the reporting limit requirements of the SAP for this project.

**Detectable Results Summary**

Client Sample ID: **PB070\_B-2SWMID-140314-N**

Lab Sample ID: 31400395001-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	9.99	mg/L

Client Sample ID: **PB070\_B-1SWMID-140314-N**

Lab Sample ID: 31400395002-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	9.44	mg/L

Client Sample ID: **PB079-1SWMID-140314-N**

Lab Sample ID: 31400395003-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	13.7	mg/L

Client Sample ID: **PB081\_A-1SWMID-140314-N**

Lab Sample ID: 31400395004-C	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Dissolved Organic Carbon	26.3	mg/L
	Total Organic Carbon	16.2	mg/L

Client Sample ID: **PB089-1SWMID-140314-N**

Lab Sample ID: 31400395005-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	14.9	mg/L

Client Sample ID: **PB085-1SWMID-140314-N**

Lab Sample ID: 31400395006-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	15.4	mg/L

Client Sample ID: **PB097A-1SWMID-140314-N**

Lab Sample ID: 31400395007-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	10.3	mg/L



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

**PROJECT INFO:**

PROJECT: Patrick Bayou Superfund Site COMPANY: Ancher OEA

PO. #:

QUOTE #:

SITE REF: 0410284-01.08

TURN AROUND TIME: Standard

REPORT LEVEL: (see reverse)  Level I  Level II  Level IVSPECIAL DELIVERABLES:  State of Origin:  Other: 

JEDD:

**SEND DOCUMENTATION / RESULTS TO:**

CONTACT: Delaney Peterson

ADDRESS: 7200 Irv Way, Ste 300

PHONE: See the WA 98101

EMAIL: 206-287-9130

INVOICE TO:  CHECK IF SAME

COMPANY: PNL CONTACT: Bob Piñiewski

ADDRESS: 919-435-0934

EMAIL: bob@projectnavigator.com

**SPECIAL INSTRUCTIONS / COMMENTS:**

31400396

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	QTY	CONT.	REMARKS
				MS	MSD	DUP					
	PB070-B-25WUMID-140314-N	3/14/14	0910				G	WS	5		* Filters upon receipt ** Filters and preserve upon receipt
	PB070-B-15WUMID-140314-N	3/14/14	1315				G	WS	5		
	PB079-15WUMID-140314-N	3/14/14	1400				G	WS	5		
	PB081-A-15WUMID-140314-N	3/14/14	1725				G	WS	9		
	PB089-15WUMID-140314-N	3/14/14	1725				G	WS	5		
	PB085-15WUMID-140314-N	3/14/14	1654				G	W	5		
	PB097A-15WUMID-140314-N	3/14/14	1754				G	W	9		

COLLECTED/RELINQUISHED BY (1): Ancher Jasen Kase	DATE: 3/14/14	TIME: 1918	RECEIVED BY: FedEx
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:

RECEIVED BY LABORATORY: <i>[Signature]</i>	DATE: 3-15-14	TIME: 1030
COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C 1.4	
CARRIER: FedEx	TRACKING #:	
NOTES:		

REVISED REPORT  
**SGS North America Inc.**

Sample Receipt Checklist (SRC)

Client: **Anchor Environmental** Work Order No.: **31400395**

- |     |   |  |
|-----|---|--|
| 1.  | <input checked="" type="checkbox"/> Shipped<br><input type="checkbox"/> Hand Delivered  | Notes: _____<br>_____  |
| 2.  | <input checked="" type="checkbox"/> COC Present on Receipt<br><input type="checkbox"/> No COC<br><input type="checkbox"/> Additional Transmittal Forms  | _____<br>_____<br>_____  |
| 3.  | <input checked="" type="checkbox"/> Custody Tape on Container<br><input type="checkbox"/> No Custody Tape   | _____<br>_____   |
| 4.  | <input checked="" type="checkbox"/> Samples Intact<br><input type="checkbox"/> Samples Broken / Leaking   | _____<br>_____   |
| 5.  | <input checked="" type="checkbox"/> Chilled on Receipt    Actual Temp.(s) in °C: <u>1.4</u><br><input type="checkbox"/> Ambient on Receipt<br><input type="checkbox"/> Walk-in on Ice; Coming down to temp.<br><input type="checkbox"/> Temperature Blank Present | Thermometer ID#: <u>Login-1D</u><br>_____<br>_____<br>_____<br>_____ |
| 6.  | <input checked="" type="checkbox"/> Sufficient Sample Submitted<br><input type="checkbox"/> Insufficient Sample Submitted   | _____<br>_____   |
| 7.  | <input type="checkbox"/> Chlorine absent<br><input type="checkbox"/> HNO3 < 2<br><input checked="" type="checkbox"/> HCL < 2<br><input type="checkbox"/> Additional Preservatives verified (see notes)  | _____<br>_____<br>_____<br>_____                                     |
| 8.  | <input checked="" type="checkbox"/> Received Within Holding Time<br><input type="checkbox"/> Not Received Within Holding Time   | _____<br>_____   |
| 9.  | <input checked="" type="checkbox"/> No Discrepancies Noted<br><input type="checkbox"/> Discrepancies Noted<br><input type="checkbox"/> NCDENR notified of Discrepancies*  | _____<br>_____<br>_____<br>_____                                     |
| 10. | <input type="checkbox"/> No Headspace present in VOC vials<br><input type="checkbox"/> Headspace present in VOC vials >6mm  | _____<br>_____   |

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Inspected and Logged in by: RCH  
 Date: Mon-3/17/14 00:00

# SM 2540-D

## Sample Data



**Results of PB070\_B-2SWMID-140314-N**

Client Sample ID: **PB070\_B-2SWMID-140314-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400395001-C  
Lab Project ID: 31400395

Collection Date: 03/14/2014 09:10  
Received Date: 03/15/2014 10:30  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	18.0	J	3.60	25.0	mg/L	1	03/21/2014 14:59

**Batch Information**

Analytical Batch: **INO3026**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **DTF**

Prep Batch: **INO3026**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/21/2014 14:59**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



Results of **PB070\_B-1SWMID-140314-N**

Client Sample ID: **PB070\_B-1SWMID-140314-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400395002-C  
Lab Project ID: 31400395

Collection Date: 03/14/2014 13:15  
Received Date: 03/15/2014 10:30  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	19.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **DTF**

Prep Batch: **INO3026**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/21/2014 15:00**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



Results of **PB079-1SWMID-140314-N**

Client Sample ID: **PB079-1SWMID-140314-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400395003-C  
Lab Project ID: 31400395

Collection Date: 03/14/2014 14:00  
Received Date: 03/15/2014 10:30  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	18.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **DTF**

Prep Batch: **INO3026**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/21/2014 15:00**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of PB081\_A-1SWMID-140314-N**

Client Sample ID: **PB081\_A-1SWMID-140314-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400395004-E  
Lab Project ID: 31400395

Collection Date: 03/14/2014 13:45  
Received Date: 03/15/2014 10:30  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	8.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **DTF**

Prep Batch: **INO3026**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/21/2014 15:00**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of PB089-1SWMID-140314-N**

Client Sample ID: **PB089-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395005-C  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 17:25  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	12.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **DTF**

Prep Batch: **INO3026**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/21/2014 15:00**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



Results of **PB085-1SWMID-140314-N**

Client Sample ID: **PB085-1SWMID-140314-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400395006-C  
Lab Project ID: 31400395

Collection Date: 03/14/2014 16:54  
Received Date: 03/15/2014 10:30  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	8.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **DTF**

Prep Batch: **INO3026**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/21/2014 15:00**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of PB097A-1SWMID-140314-N**

Client Sample ID: **PB097A-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395007-D  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 17:54  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	19.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **DTF**

Prep Batch: **INO3026**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/21/2014 15:00**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



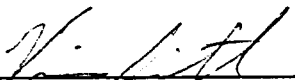
5500 Business Drive  
Wilmington, NC 28405

# Total Suspended Solids

## SM 2540 D

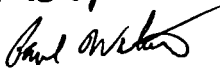
Batch: **INO 3026**      Balance: **BAL10**      In Oven Date: 3/21/2014  
 Analyst: **DTF**      Oven: **Oven #6**      In Oven Time: 15:00  
 StandardID: **TSA15**      In Oven Temp: **105**      Out Oven Date: 3/24/2014  
 Out Oven Temp: **105**      Out Oven Time: 9:00

Type	Lab ID	Vol mL	Filter Lot #	Analyzed Date	Analyzed Time	Filter g	Final g	Result mg/L
SAMPLE	132950	100	inv26	03/21/2014	14:59	0.1221	0.1220	-1
SAMPLE	132951	25	inv26	03/21/2014	14:59	0.1231	0.1343	448
SAMPLE	31400395001	100	inv26	03/21/2014	14:59	0.1183	0.1201	18
SAMPLE	132952	100	inv26	03/21/2014	14:59	0.1240	0.1261	21
SAMPLE	31400395002	100	inv26	03/21/2014	15:00	0.1241	0.1260	19
SAMPLE	31400395003	100	inv26	03/21/2014	15:00	0.1189	0.1207	18
SAMPLE	31400395004	100	inv26	03/21/2014	15:00	0.1225	0.1233	8
SAMPLE	31400395005	100	inv26	03/21/2014	15:00	0.1238	0.1250	12
SAMPLE	31400395006	100	inv26	03/21/2014	15:00	0.1205	0.1213	8
SAMPLE	31400395007	100	inv26	03/21/2014	15:00	0.1224	0.1243	19
SAMPLE	31400411001	100	inv26	03/21/2014	15:00	0.1197	0.1208	11

  
**Analyst Signature**

Analyst signature indicates that the data printed is a true representation of volumes and weights encountered in the analytical process. Weights are obtained through overnight drying at 105C.

3/24/14  
**Date**

Reviewed by  
  
 3-24-14

The calculation of TSS is:  $\frac{(F2 - F1) \times 1,000,000}{V1} = \text{mg/L TSS}$

Where: F2 = Final (g)  
 F1 = Filter (g)  
 V1 = Vol (mL)

Printed: 3/24/2014 9:28:47 AM  
 1 of 1 Pages



# SM 2540-D

## QC, Blanks Data

**Batch Summary**

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Prep Batch: INO3026

Prep Date: 03/21/2014 14:59

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41520 [INO/3026]	132950	03/21/2014 14:59	INO3026	BAL10	DTF
LCS for HBN 41520 [INO/3026]	132951	03/21/2014 14:59	INO3026	BAL10	DTF
PB070_B-2SWMID-140314-N	31400395001	03/21/2014 14:59	INO3026	BAL10	DTF
PB070_B-2SWMID-1...(132394DUP)	132952	03/21/2014 14:59	INO3026	BAL10	DTF
PB070_B-1SWMID-140314-N	31400395002	03/21/2014 15:00	INO3026	BAL10	DTF
PB079-1SWMID-140314-N	31400395003	03/21/2014 15:00	INO3026	BAL10	DTF
PB081_A-1SWMID-140314-N	31400395004	03/21/2014 15:00	INO3026	BAL10	DTF
PB089-1SWMID-140314-N	31400395005	03/21/2014 15:00	INO3026	BAL10	DTF
PB085-1SWMID-140314-N	31400395006	03/21/2014 15:00	INO3026	BAL10	DTF
PB097A-1SWMID-140314-N	31400395007	03/21/2014 15:00	INO3026	BAL10	DTF

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41520 [INO/3026]  
 Blank Lab ID: 132950  
 Prep Batch: INO3026

Matrix: Water  
 Analysis Date/Time: 03/21/2014 14:59

**Results by SM 2540-D**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41520 [INO/3026]	132951		03/21/2014 14:59	DTF
PB070_B-2SWMID-140314-N	31400395001		03/21/2014 14:59	DTF
PB070_B-2SWMID-1...(132394DUP)	132952		03/21/2014 14:59	DTF
PB070_B-1SWMID-140314-N	31400395002		03/21/2014 15:00	DTF
PB079-1SWMID-140314-N	31400395003		03/21/2014 15:00	DTF
PB081_A-1SWMID-140314-N	31400395004		03/21/2014 15:00	DTF
PB089-1SWMID-140314-N	31400395005		03/21/2014 15:00	DTF
PB085-1SWMID-140314-N	31400395006		03/21/2014 15:00	DTF
PB097A-1SWMID-140314-N	31400395007		03/21/2014 15:00	DTF

**Method Blank**

Blank ID: MB for HBN 41520 [INO/3026]

Matrix: Water

Blank Lab ID: 132950

QC for Samples:

31400395001, 31400395002, 31400395003, 31400395004, 31400395005, 31400395006, 31400395007

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1

**Batch Information**

Analytical Batch: INO3026

Prep Batch: INO3026

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Instrument: BAL10

Prep Date/Time: 3/21/2014 2:59:46PM

Analyst: DTF

Prep Initial Wt./Vol.: 1 mL

Prep Extract Vol: 1 mL

**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41520 [INO/3026]  
 Blank Spike Lab ID: 132951  
 Date Analyzed: 03/21/2014 14:59

Matrix: Water

QC for Samples: 31400395001, 31400395002, 31400395003, 31400395004, 31400395005, 31400395006, 31400395007

**Results by SM 2540-D**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Suspended Solids	500	448	90	80.0-120

**Batch Information**

Analytical Batch: **INO3026**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **DTF**

Prep Batch: **INO3026**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/21/2014 14:59**  
 Spike Init Wt./Vol.: **1 mL** Extract Vol: **1 mL**  
 Dupe Init Wt./Vol.: Extract Vol:

**Duplicate Sample Summary**

Original Sample ID: 31400395001-C  
 Duplicate Sample ID: 132952

Analysis Date: 03/21/2014 14:59  
 Analysis Date: 03/21/2014 14:59  
 Matrix: Water

QC for Samples: 31400395001, 31400395002, 31400395003, 31400395004, 31400395005, 31400395006, 31400395007

**Results by SM 2540-D**

<u>PARAMETER</u>	<u>Original (mg/L)</u>	<u>Qual</u>	<u>Duplicate (mg/L)</u>	<u>Qual</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	18.0	J	21.0	J	15.4	20.00

**Batch Information**

Analytical Batch: INO3026  
 Analytical Method: SM 2540-D  
 Instrument: BAL10  
 Analyst: DTF

# SW-846 9060A

## Sample Data



Results of **PB070\_B-2SWMID-140314-N**

Client Sample ID: **PB070\_B-2SWMID-140314-N**  
Client Project ID: **Patrick Bayou Superfund Site**  
Lab Sample ID: 31400395001-A  
Lab Project ID: 31400395

Collection Date: 03/14/2014 09:10  
Received Date: 03/15/2014 10:30  
Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	<b>9.99</b>		1.00	mg/L	1	03/18/2014 18:14

**Batch Information**

Analytical Batch: **INO3016**  
Analytical Method: **SW-846 9060A**  
Instrument: **TOC1**  
Analyst: **PSW**

Prep Batch: **INO3016**  
Prep Method: **SW-846 9060A**  
Prep Date/Time: **03/18/2014 18:14**  
Prep Initial Wt./Vol.: **40 mL**  
Prep Extract Vol: **40 mL**



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0395\_1  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.994mg/L

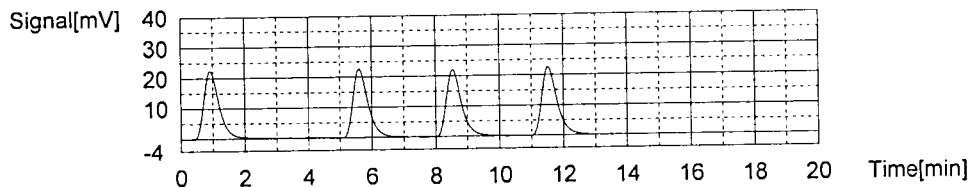
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.21	10.14mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 6:14:34 PM
2	76.44	9.911mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 6:17:38 PM
3	76.16	9.874mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 6:20:48 PM
4	77.51	10.05mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 6:23:45 PM

Mean Area 77.08  
 Mean Conc. 9.994mg/L

*83m*  
*3-19-14*



Results of **PB070\_B-1SWMID-140314-N**

Client Sample ID: **PB070\_B-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395002-A  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 13:15  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	<b>9.44</b>		1.00	mg/L	1	03/18/2014 18:36

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 18:36**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

Sample

Sample Name: 0395\_2  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.443mg/L

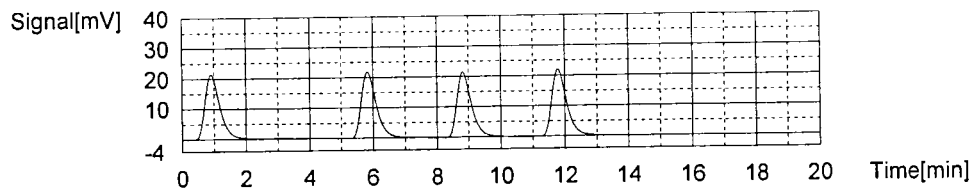
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.91	9.453mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 6:36:57 PM
2	73.47	9.526mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 6:40:06 PM
3	71.91	9.323mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 6:43:14 PM
4	73.05	9.471mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 6:46:09 PM

Mean Area 72.83  
 Mean Conc. 9.443mg/L

*1sm  
3-19-14*





Results of **PB079-1SWMID-140314-N**

Client Sample ID: **PB079-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395003-A  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 14:00  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	13.7		1.00	mg/L	1	03/18/2014 18:58

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 18:58**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0395\_3  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:13.73mg/L

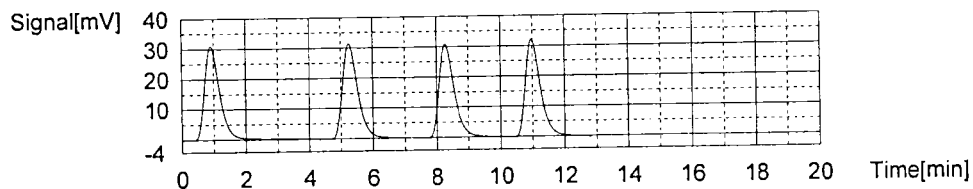
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.2	13.64mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 6:58:46 PM
2	107.4	13.92mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:01:57 PM
3	103.7	13.45mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:04:50 PM
4	107.4	13.92mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:07:44 PM

Mean Area 105.9  
 Mean Conc. 13.73mg/L

*asm*  
 3-19-14



**Results of PB081\_A-1SWMID-140314-N**

Client Sample ID: **PB081\_A-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395004-C  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 13:45  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dissolved Organic Carbon	<b>26.3</b>		1.00	mg/L	1	03/19/2014 0:14
Total Organic Carbon	<b>16.2</b>		1.00	mg/L	1	03/18/2014 19:20

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 19:20**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/19/2014 00:14**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0395\_4  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.25mg/L

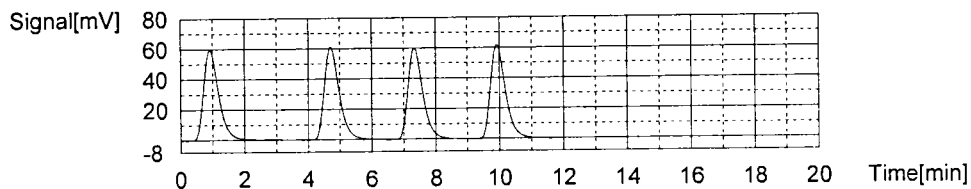
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	201.9	26.18mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:14:38 AM
2	203.7	26.41mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:17:25 AM
3	198.8	25.78mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:20:10 AM
4	205.6	26.66mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:22:59 AM

Mean Area 202.5  
 Mean Conc. 26.25mg/L

*Am*  
 3-19-14



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0395\_4  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:16.22mg/L

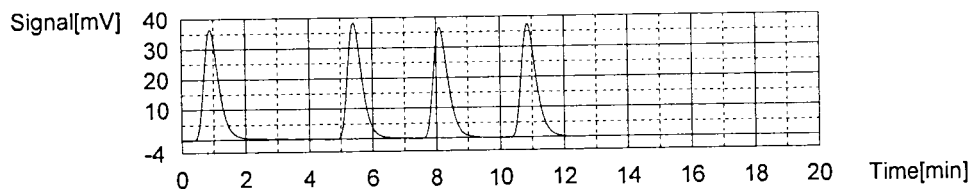
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	125.0	16.21mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:20:27 PM
2	125.6	16.28mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:23:17 PM
3	123.2	15.97mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:26:13 PM
4	126.6	16.41mg/L	100uL		1	030414W.2014_03_04_13_51_57.cal	3/18/2014 7:29:02 PM

Mean Area 125.1  
 Mean Conc. 16.22mg/L

*Blw  
3-14-14*





**Results of PB089-1SWMID-140314-N**

Client Sample ID: **PB089-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395005-A  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 17:25  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	14.9		1.00	mg/L	1	03/18/2014 19:42

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 19:42**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 0395\_5  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:14.92mg/L

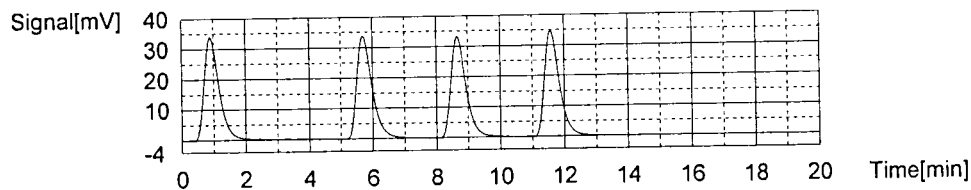
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	114.3	14.82mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 7:42:09 PM
2	116.3	15.08mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 7:45:16 PM
3	114.1	14.79mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 7:48:23 PM
4	115.6	14.99mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 7:51:19 PM

Mean Area 115.1  
 Mean Conc. 14.92mg/L

*14.92  
3-19-14*



**Results of PB085-1SWMID-140314-N**

Client Sample ID: **PB085-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395006-A  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 16:54  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	15.4		1.00	mg/L	1	03/18/2014 20:03

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 20:03**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0395\_6  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:15.36mg/L

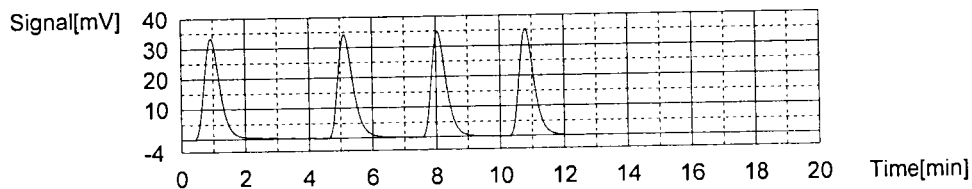
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	119.8	15.53mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:03:50 PM
2	118.8	15.40mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:06:56 PM
3	116.3	15.08mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:09:50 PM
4	118.9	15.42mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:12:39 PM

Mean Area 118.5  
 Mean Conc. 15.36mg/L

*DMW  
3-19-14*



Results of **PB097A-1SWMID-140314-N**

Client Sample ID: **PB097A-1SWMID-140314-N**  
 Client Project ID: **Patrick Bayou Superfund Site**  
 Lab Sample ID: 31400395007-A  
 Lab Project ID: 31400395

Collection Date: 03/14/2014 17:54  
 Received Date: 03/15/2014 10:30  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	10.3		1.00	mg/L	1	03/18/2014 21:08

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 21:08**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 0395\_7  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.30	10.28mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:08:19 PM
2	79.88	10.36mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:11:13 PM
3	78.82	10.22mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:14:10 PM
4	80.66	10.46mg/L	100ul	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:16:57 PM

Mean Area 79.67  
 Mean Conc. 10.33mg/L

*88m*  
*3-19-14*



# SW-846 9060A

## QC, Blanks Data

**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3016

Prep Date: 03/18/2014 00:53

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41460 [INO/3016]	132565	03/18/2014 00:53	INO3016	TOC1	PSW
LCS for HBN 41460 [INO/3016]	132566	03/18/2014 13:11	INO3016	TOC1	PSW
PB006.2-1SWMID-14...(132120MS)	132567	03/18/2014 13:49	INO3016	TOC1	PSW
PB006.2-1SWMID-1...(132120MSD)	132568	03/18/2014 14:09	INO3016	TOC1	PSW
PB070_B-2SWMID-140314-N	31400395001	03/18/2014 18:14	INO3016	TOC1	PSW
PB070_B-1SWMID-140314-N	31400395002	03/18/2014 18:36	INO3016	TOC1	PSW
PB079-1SWMID-140314-N	31400395003	03/18/2014 18:58	INO3016	TOC1	PSW
PB081_A-1SWMID-140314-N	31400395004	03/18/2014 19:20	INO3016	TOC1	PSW
PB089-1SWMID-140314-N	31400395005	03/18/2014 19:42	INO3016	TOC1	PSW
PB085-1SWMID-140314-N	31400395006	03/18/2014 20:03	INO3016	TOC1	PSW
PB097A-1SWMID-140314-N	31400395007	03/18/2014 21:08	INO3016	TOC1	PSW
PB097A-1SWMID-14...(132401DUP)	132569	03/18/2014 21:28	INO3016	TOC1	PSW



**Method Blank Summary Form 4**

Blank ID: MB for HBN 41460 [INO/3016]  
 Blank Lab ID: 132565  
 Prep Batch: INO3016

Matrix: Water  
 Analysis Date/Time: 03/18/2014 00:53

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41460 [INO/3016]	132566	INO3016.csv	03/18/2014 13:11	PSW
PB006.2-1SWMID-14...(132120MS)	132567	INO3016.csv	03/18/2014 13:49	PSW
PB006.2-1SWMID-1...(132120MSD)	132568	INO3016.csv	03/18/2014 14:09	PSW
CBV for HBN 41460 (INO/3016)	132768	INO3016.csv	03/18/2014 16:25	PSW
PB070_B-2SWMID-140314-N	31400395001	INO3016.csv	03/18/2014 18:14	PSW
PB070_B-1SWMID-140314-N	31400395002	INO3016.csv	03/18/2014 18:36	PSW
PB079-1SWMID-140314-N	31400395003	INO3016.csv	03/18/2014 18:58	PSW
PB081_A-1SWMID-140314-N	31400395004	INO3016.csv	03/18/2014 19:20	PSW
PB089-1SWMID-140314-N	31400395005	INO3016.csv	03/18/2014 19:42	PSW
PB085-1SWMID-140314-N	31400395006	INO3016.csv	03/18/2014 20:03	PSW
CBV for HBN 41460 (INO/3016)	132770	INO3016.csv	03/18/2014 20:45	PSW
PB097A-1SWMID-140314-N	31400395007	INO3016.csv	03/18/2014 21:08	PSW
PB097A-1SWMID-14...(132401DUP)	132569	INO3016.csv	03/18/2014 21:28	PSW
CBV for HBN 41460 (INO/3016)	132772	INO3016.csv	03/19/2014 00:53	PSW

**Method Blank**

Blank ID: MB for HBN 41460 [INO/3016]

Matrix: Water

Blank Lab ID: 132565

QC for Samples:

31400395001, 31400395002, 31400395003, 31400395004, 31400395005, 31400395006, 31400395007

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3016

Prep Batch: INO3016

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Instrument: TOC1

Prep Date/Time: 3/18/2014 12:53:41AM

Analyst: PSW

Prep Initial Wt./Vol.: 40 mL

Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: 132565 MB  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2217mg/L

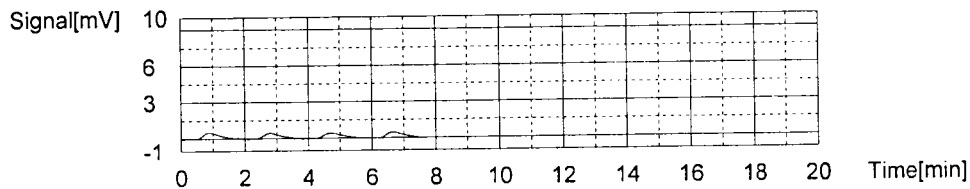
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.756	0.2277mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:53:41 PM
2	1.632	0.2116mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:55:44 PM
3	1.712	0.2220mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:57:51 PM
4	1.741	0.2257mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 12:59:57 PM

Mean Area 1.710  
 Mean Conc. 0.2217mg/L

*plw*  
*3-14-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41460 [INO/3016]  
 Blank Spike Lab ID: 132566  
 Date Analyzed: 03/18/2014 13:11

Matrix: Water

QC for Samples: 31400395001, 31400395002, 31400395003, 31400395004, 31400395005, 31400395006, 31400395007

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	48.6	97	90.0-110

**Batch Information**

Analytical Batch: **INO3016**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3016**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 13:11**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:     Extract Vol:

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132566 LCS  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.57mg/L

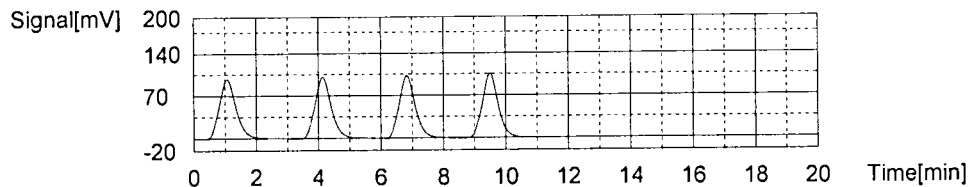
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	371.4	48.15mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:11:11 PM
2	375.9	48.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:14:03 PM
3	371.8	48.21mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:16:51 PM
4	379.5	49.20mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 1:19:42 PM

Mean Area 374.7  
 Mean Conc. 48.57mg/L

*DMW*  
*3-19-14*



**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3017

Prep Date: 03/18/2014 21:49

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB-F1 for HBN 41461 [INO/3017]	132570	03/18/2014 21:49	INO3017	TOC1	PSW
LCS for HBN 41461 [INO/3017]	132571	03/18/2014 22:12	INO3017	TOC1	PSW
PB006.2-1SWMID-14...(132121MS)	132572	03/18/2014 22:52	INO3017	TOC1	PSW
PB006.2-1SWMID-1...(132121MSD)	132573	03/18/2014 23:12	INO3017	TOC1	PSW
PB081_A-1SWMID-140314-N	31400395004	03/19/2014 00:14	INO3017	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB-F1 for HBN 41461 [INO/3017]  
 Blank Lab ID: 132570  
 Prep Batch: INO3017

Matrix: Water  
 Analysis Date/Time: 03/18/2014 21:49

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41461 (INO/3017)	132778	INO3017.csv	03/18/2014 20:45	PSW
LCS for HBN 41461 [INO/3017]	132571	INO3017.csv	03/18/2014 22:12	PSW
PB006.2-1SWMID-14...(132121MS)	132572	INO3017.csv	03/18/2014 22:52	PSW
PB006.2-1SWMID-1...(132121MSD)	132573	INO3017.csv	03/18/2014 23:12	PSW
PB081_A-1SWMID-140314-N	31400395004	INO3017.csv	03/19/2014 00:14	PSW
CBV for HBN 41461 (INO/3017)	132779	INO3017.csv	03/19/2014 00:53	PSW

**Method Blank**

Blank ID: MB-F1 for HBN 41461 [INO/3017]  
 Blank Lab ID: 132570  
 QC for Samples:  
 31400395004

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Dissolved Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3017  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3017  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/18/2014 9:49:14PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132570 MB-F1  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3902mg/L

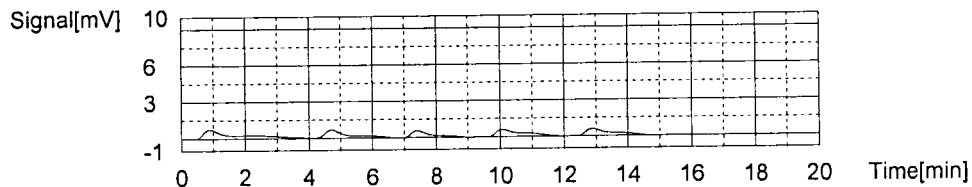
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.787	0.6207mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 9:49:14 PM
2	2.834	0.3674mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:52:05 PM
3	2.839	0.3681mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:54:54 PM
4	3.525	0.4570mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 9:57:52 PM
5	2.840	0.3682mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:00:33 PM

Mean Area 3.010  
 Mean Conc. 0.3902mg/L

*BM*  
 3-19-14



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41461 [INO/3017]  
 Blank Spike Lab ID: 132571  
 Date Analyzed: 03/18/2014 22:12

Matrix: Water

QC for Samples: 31400395004

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Dissolved Organic Carbon	50.0	49.1	98	90.0-110

**Batch Information**

Analytical Batch: **INO3017**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3017**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/18/2014 22:12**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: 132571 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.14mg/L

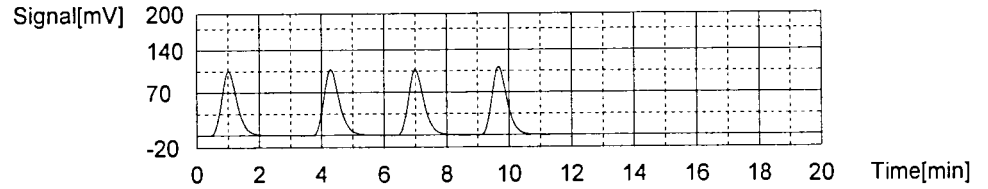
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	373.3	48.40mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:12:00 PM
2	384.3	49.83mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:14:52 PM
3	375.9	48.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:17:42 PM
4	382.6	49.61mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 10:20:30 PM

Mean Area 379.0  
 Mean Conc. 49.14mg/L

*AW*  
*3-19-14*



# SW-846 9060A

## Prep, Standard, Run Logs

SGS Environmental Services

TOC Runlog Sheet

Method: 9060

Batch: INO3016

IND 3017

Matrix: Water

Primary Std Lot#: D-437

Initial Cal. Curve: ICAL-030414W

Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/18/2014 11:55	PSW			
CBV ✓	3/18/2014 12:17	PSW			
NEG ✓	3/18/2014 12:35	PSW			
132565 MB ✓	3/18/2014 12:53	PSW			
132566 LCS ✓	3/18/2014 13:11	PSW			
0373_1	3/18/2014 13:30	PSW			
132567 MS ✓	3/18/2014 13:49	PSW			
132568 MSD ✓	3/18/2014 14:09	PSW			
0373_2	3/18/2014 14:30	PSW			
0373_3	3/18/2014 14:52	PSW			
0389_1	3/18/2014 15:18	PSW			
0389_2	3/18/2014 15:41	PSW			
ICV ✓	3/18/2014 16:03	PSW			
CBV ✓	3/18/2014 16:25	PSW			
0389_3	3/18/2014 16:46	PSW			
0389_4	3/18/2014 17:07	PSW			
0389_5	3/18/2014 17:29	PSW			
0389_6	3/18/2014 17:51	PSW			
0395_1	3/18/2014 18:14	PSW			
0395_2	3/18/2014 18:36	PSW			
0395_3	3/18/2014 18:58	PSW			

IND

Analyst: \_\_\_\_\_

# SGS Environmental Services

## TOC Runlog Sheet

Method: 9060 Batch: INO3016  
 Matrix: Water Primary Std Lot#: D-437  
 Initial Cal. Curve: ICAL-030414W Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
0395_4	3/18/2014 19:20	PSW			
0395_5	3/18/2014 19:42	PSW			
0395_6	3/18/2014 20:03	PSW			
ICV ✓	3/18/2014 20:24	PSW			
CBV ✓	3/18/2014 20:45	PSW			
0395_7	3/18/2014 21:08	PSW			
132569 DUP	3/18/2014 21:28	PSW			
132570 MB-F1 ✓	3/18/2014 21:49	PSW			
132571 LCS ✓	3/18/2014 22:12	PSW			
0373_2	3/18/2014 22:32	PSW			
132572 MS ✓	3/18/2014 22:52	PSW			
132573 MSD ✓	3/18/2014 23:12	PSW			
0373_1	3/18/2014 23:33	PSW			
0389_4	3/18/2014 23:53	PSW			
0395_4	3/19/2014 0:14	PSW			
ICV ✓	3/19/2014 0:33	PSW			
CBV ✓	3/19/2014 0:53	PSW			
0395_7 Sample on	3/19/2014 1:15	PSW			
132574 DUP held	3/19/2014 1:35	PSW			
ICV ✓	3/19/2014 1:56	PSW			
CBV - 100	3/19/2014 2:16	PSW			

Analyst: \_\_\_\_\_

# SW-846 9060A

## Initial Calibration Data

REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.t32

Cal. Curve

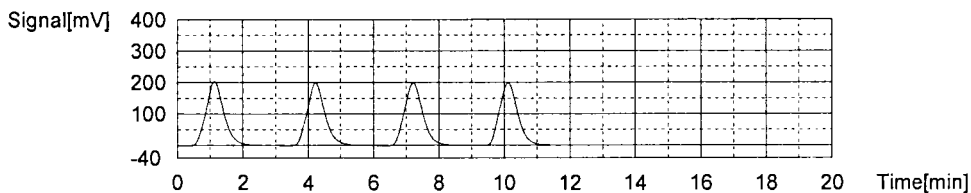
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 030414W.2014\_03\_04\_13\_51\_57.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	778.3	100ul	1	*****		3/4/2014 2:00:59 PM
2	774.6	100ul	1	*****		3/4/2014 2:06:27 PM
3	776.1	100ul	1	*****		3/4/2014 2:11:52 PM
4	769.8	100ul	1	*****		3/4/2014 2:17:17 PM

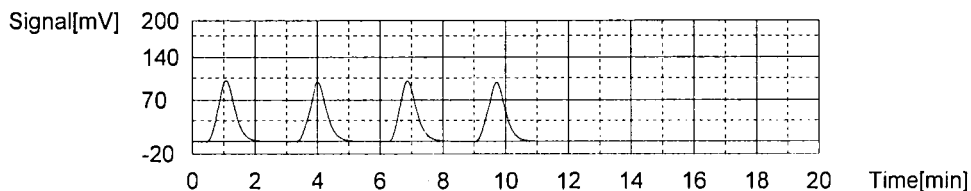
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 774.7 ✓  
*ANW 3-5-14*



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	382.0	100ul	1	*****		3/4/2014 2:27:08 PM
2	381.1	100ul	1	*****		3/4/2014 2:32:33 PM
3	380.7	100ul	1	*****		3/4/2014 2:37:49 PM
4	380.6	100ul	1	*****		3/4/2014 2:43:10 PM

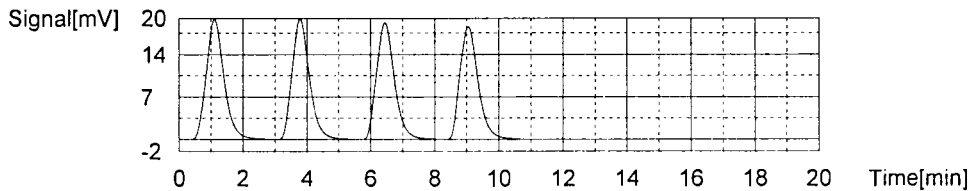
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 381.1 ✓  
*ANW 3-6-14*



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	76.52	100ul	1	*****		3/4/2014 2:52:51 PM
2	75.85	100ul	1	*****		3/4/2014 2:57:58 PM
3	75.13	100ul	1	*****		3/4/2014 3:03:05 PM
4	75.04	100ul	1	*****		3/4/2014 3:08:13 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 75.64 ✓  
*ANW 3-5-14*



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.25	100ul	1	*****		3/4/2014 3:17:22 PM
2	10.24	100ul	1	*****		3/4/2014 3:22:03 PM
3	10.27	100ul	1	*****		3/4/2014 3:26:47 PM
4	10.29	100ul	1	*****		3/4/2014 3:31:30 PM



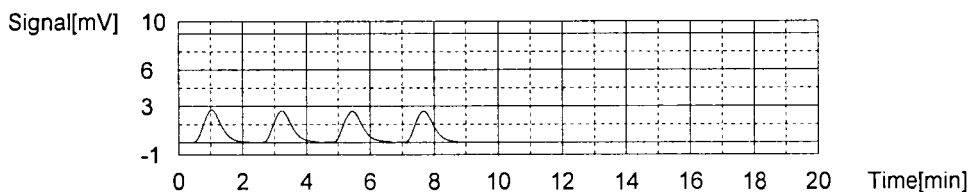
REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.i32

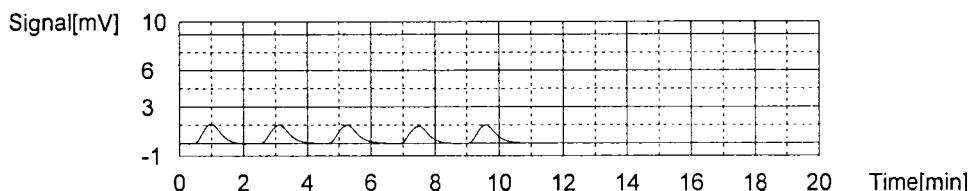
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 10.26 ✓  
*pmw 3-5-14*



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.283	100uL	1	*****		3/4/2014 3:40:32 PM
2	6.118	100uL	1	*****		3/4/2014 3:45:10 PM
3	6.095	100uL	1	*****		3/4/2014 3:49:51 PM
4	5.719	100uL	1	*****	E	3/4/2014 3:54:29 PM
5	5.937	100uL	1	*****		3/4/2014 3:59:05 PM

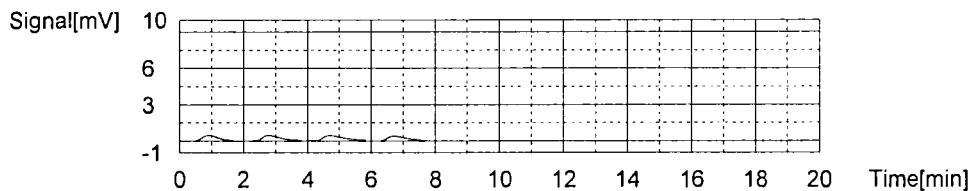
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 6.108 ✓  
*pmw 3-5-14*



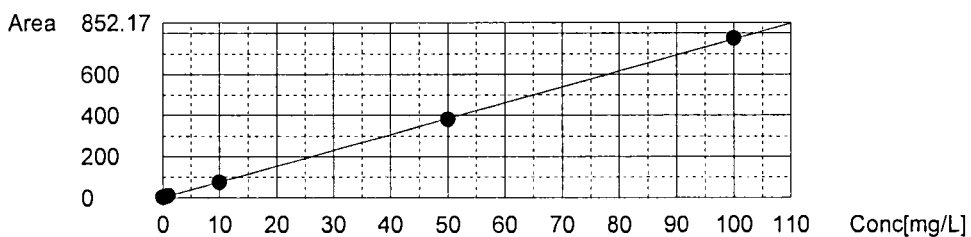
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.725	100uL	1	*****		3/4/2014 4:07:57 PM
2	1.582	100uL	1	*****		3/4/2014 4:12:20 PM
3	1.704	100uL	1	*****		3/4/2014 4:16:49 PM
4	1.572	100uL	1	*****		3/4/2014 4:21:12 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 1.646 ✓  
*pmw 3-5-14*



Slope: 7.713  
 Intercept: 0.000  
 r^2: 0.999906  
 r: 0.999953  
 Zero Shift: Yes



# SW-846 9060A

## Continuing Calibration Data

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.45mg/L

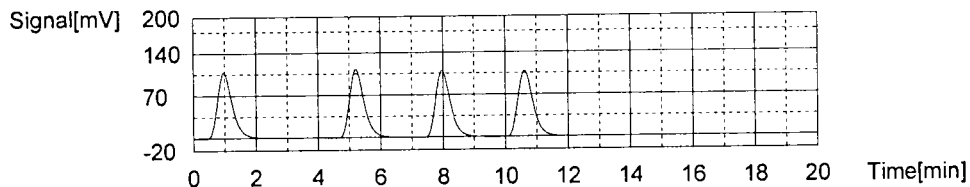
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	369.0	47.84mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:03:17 PM
2	377.2	48.91mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:06:12 PM
3	373.1	48.37mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:08:59 PM
4	375.4	48.67mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:11:44 PM

Mean Area 373.7  
 Mean Conc. 48.45mg/L

*AW*  
*3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: ICV  
Sample ID: 9060A\_TOC1\_Waters.met  
Origin: Completed  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.84mg/L

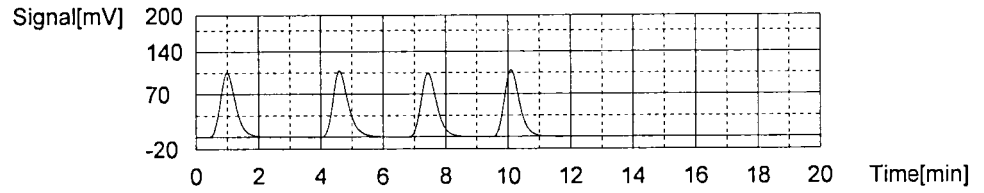
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	369.6	47.92mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:24:34 PM
2	381.6	49.48mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:27:32 PM
3	376.0	48.75mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:30:23 PM
4	379.7	49.23mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:33:10 PM

Mean Area 376.7  
Mean Conc. 48.84mg/L

*AW*  
*3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.i32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.93mg/L

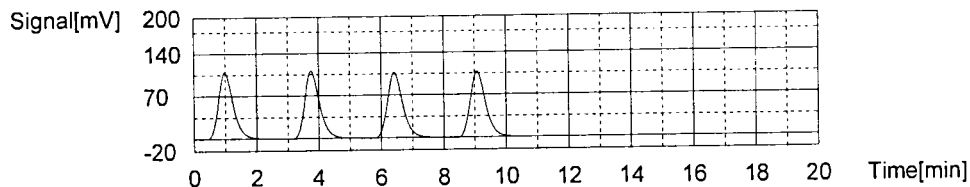
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	370.7	48.06mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:33:58 AM
2	382.8	49.63mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:36:45 AM
3	375.8	48.72mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:39:38 AM
4	380.2	49.29mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:42:26 AM

Mean Area 377.4  
 Mean Conc. 48.93mg/L

*psw  
3-19-14*



**Analytical Blank Summary Form 3**

Analytical Batch: INO3016  
 Units: mg/L

Instrument: TOC1  
 Analyst: PSW

**Results by SW-846 9060A**

	<u>132768</u> 03/18/14 16:25	<u>132770</u> 03/18/14 20:45	<u>132772</u> 03/19/14 00:53	<u>132778</u> 03/18/14 20:45	<u>132779</u> 03/19/14 00:53
Dissolved Organ				1.00U	1.00U
Total Organic Ca	1.00U	1.00U	1.00U		

REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2545mg/L

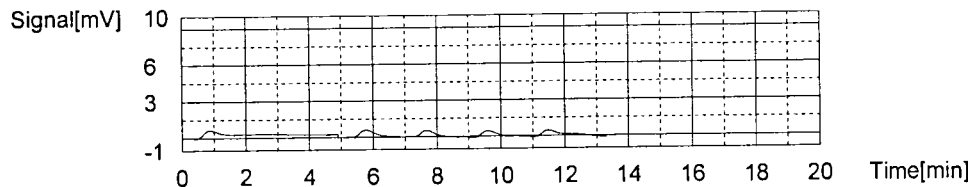
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.089	0.6598mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 4:25:05 PM
2	1.923	0.2493mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:27:08 PM
3	1.512	0.1960mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:29:12 PM
4	1.512	0.1960mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:31:15 PM
5	2.904	0.3765mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 4:34:07 PM

Mean Area 1.963  
 Mean Conc. 0.2545mg/L

*81W  
3-19-14*



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.t32

Sample

Sample Name: CBV  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4072mg/L

1. Det

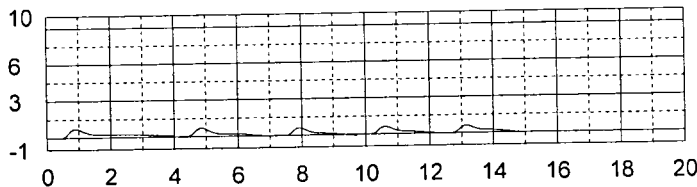
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.589	0.5950mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/18/2014 8:45:26 PM
2	3.618	0.4691mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:48:40 PM
3	2.949	0.3823mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:51:30 PM
4	2.783	0.3608mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:54:12 PM
5	3.213	0.4166mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/18/2014 8:57:01 PM

Mean Area 3.141  
 Mean Conc. 0.4072mg/L

*AMV*  
*3-19-14*

Signal[mV]



Time[min]



REVISED REPORT

PSW

3/19/2014 2:37:35 PM

INO3016.132

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4038mg/L

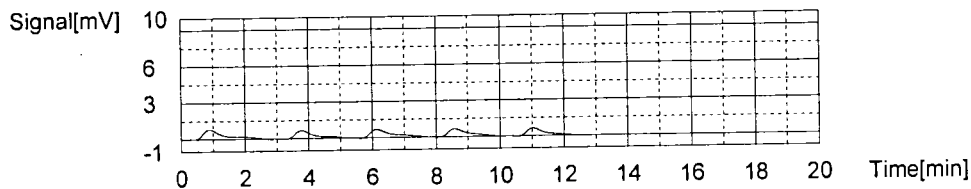
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.283	0.5553mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/19/2014 12:53:40 AM
2	2.938	0.3809mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:56:12 AM
3	3.330	0.4317mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 12:58:47 AM
4	3.443	0.4464mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 1:01:26 AM
5	2.746	0.3560mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/19/2014 1:03:54 AM

Mean Area 3.114  
 Mean Conc. 0.4038mg/L

*DM*  
 3-19-14



**Laboratory Report of Analysis**

To: Delaney Peterson  
ANCHOR ENVIRONMENTAL  
720 Olive Way  
Suite 1900  
Seattle, WA 98101  
US

Report Number: **31400411**

Client Project: **Patrick Bayou**

Dear Delaney Peterson,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
SGS North America Inc.

---

Jeannie Milholland  
Quality Director  
jeannie.milholland@sgs.com

Date

**ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.**

## Laboratory Qualifiers

### Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

### Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

**Sample Summary**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
PB081_A-2SWMID-140315-N	31400411001	03/15/2014 10:15	03/18/2014 15:30	Water

**Case Narrative**

Samples were received in good condition. There were no discrepancies to report.

2540-D - Revised report to J flag TSS results down to the MDL in order to meet the reporting limit requirements of the SAP for this project.

**Detectable Results Summary**Client Sample ID: **PB081\_A-2SWMID-140315-N**

Lab Sample ID: 31400411001-A

**SW-846 9060A**Parameter

Total Organic Carbon

Result

13.8

Units

mg/L

## CHAIN OF CUSTODY | CONVENTIONAL & SHALE

REVISED REPORT

### PROJECT INFO:

PROJECT: 040284-01.08

PO #: 314004(1)

QUOTE #:

SITE REF: Patrick Beyou

TURN AROUND TIME:

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:  Other:

Hand:

### SEND DOCUMENTATION / RESULTS TO:

COMPANY: Anchor QEA, LLC

CONTACT: Delaney Peterson

ADDRESS: 720 Olive Way

SUITE: Suite 1900

ADDRESS: 32412 WA 98101

PHONE: 206-903-3396

EMAIL: dpeterson@anchorqea.com

INVOICE TO: ( ) CHECK IF SAME

COMPANY: PNL

CONTACT: Bob

ADDRESS: 10497 Tenni County Piniowski

SUITE: Suite 830

ADDRESS: Houston TX 77024

PHONE: bobpe@projectnavisator.com

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	OC	MS	MSD	DUP	TYPE (C, G)	MATRIX	QTY	CONT.	REMARKS
	PROB1-A-20wmid-140315-N	3/15/14	1015					G	WS	5		
COLLECTED / RELINQUISHED BY (1):	John Coy / Jean Kense	DATE: 3/15/14	TIME: 1700	RECEIVED BY: FedEx	DATE: 3/18/14	TIME: 15:30	RECEIVED BY: LABORATORY	DATE: 3/18/14	TIME: 15:30			
RELINQUISHED BY (2):		DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:			

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Anchor Environmental

Work Order No.: 31400411

- 1.  Shipped  
 Hand Delivered
- 2.  COC Present on Receipt  
 No COC  
 Additional Transmittal Forms
- 3.  Custody Tape on Container  
 No Custody Tape
- 4.  Samples Intact  
 Samples Broken / Leaking
- 5.  Chilled on Receipt    Actual Temp.(s) in °C: 1.9                      Thermometer ID#: Login-1D  
 Ambient on Receipt  
 Walk-in on Ice; Coming down to temp.  
 Temperature Blank Present
- 6.  Sufficient Sample Submitted  
 Insufficient Sample Submitted
- 7.  Chlorine absent  
 HNO3 < 2  
 HCL < 2  
 Additional Preservatives verified (see notes)
- 8.  Received Within Holding Time  
 Not Received Within Holding Time
- 9.  No Discrepancies Noted  
 Discrepancies Noted  
 NCDENR notified of Discrepancies\*
- 10.  No Headspace present in VOC vials  
 Headspace present in VOC vials >6mm

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspected and Logged in by: RCH  
Date: Tue-3/18/14 00:00



# SM 2540-D

## Sample Data



Results of **PB081\_A-2SWMID-140315-N**

Client Sample ID: **PB081\_A-2SWMID-140315-N**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400411001-C  
Lab Project ID: 31400411

Collection Date: 03/15/2014 10:15  
Received Date: 03/18/2014 15:30  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	11.0	J	3.60	25.0	mg/L	1	03/21/2014 15:00

**Batch Information**

Analytical Batch: **INO3026**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **DTF**

Prep Batch: **INO3026**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/21/2014 15:00**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



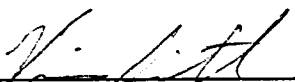
5500 Business Drive  
Wilmington, NC 28405

# Total Suspended Solids

## SM 2540 D

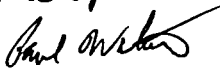
Batch: **INO 3026**      Balance: **BAL10**      In Oven Date: 3/21/2014  
 Analyst: **DTF**      Oven: **Oven #6**      In Oven Time: 15:00  
 StandardID: **TSA15**      In Oven Temp: **105**      Out Oven Date: 3/24/2014  
 Out Oven Temp: **105**      Out Oven Time: 9:00

Type	Lab ID	Vol mL	Filter Lot #	Analyzed Date	Analyzed Time	Filter g	Final g	Result mg/L
SAMPLE	132950	100	inv26	03/21/2014	14:59	0.1221	0.1220	-1
SAMPLE	132951	25	inv26	03/21/2014	14:59	0.1231	0.1343	448
SAMPLE	31400395001	100	inv26	03/21/2014	14:59	0.1183	0.1201	18
SAMPLE	132952	100	inv26	03/21/2014	14:59	0.1240	0.1261	21
SAMPLE	31400395002	100	inv26	03/21/2014	15:00	0.1241	0.1260	19
SAMPLE	31400395003	100	inv26	03/21/2014	15:00	0.1189	0.1207	18
SAMPLE	31400395004	100	inv26	03/21/2014	15:00	0.1225	0.1233	8
SAMPLE	31400395005	100	inv26	03/21/2014	15:00	0.1238	0.1250	12
SAMPLE	31400395006	100	inv26	03/21/2014	15:00	0.1205	0.1213	8
SAMPLE	31400395007	100	inv26	03/21/2014	15:00	0.1224	0.1243	19
SAMPLE	31400411001	100	inv26	03/21/2014	15:00	0.1197	0.1208	11

  
**Analyst Signature**

Analyst signature indicates that the data printed is a true representation of volumes and weights encountered in the analytical process. Weights are obtained through overnight drying at 105C.

3/24/14  
**Date**

Reviewed by  
  
 3-24-14

The calculation of TSS is: 
$$\frac{(F2 - F1) \times 1,000,000}{V1} = \text{mg/L TSS}$$

Where: F2 = Final (g)  
 F1 = Filter (g)  
 V1 = Vol (mL)

# SM 2540-D

## QC, Blanks Data

**Batch Summary**

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Prep Batch: INO3026

Prep Date: 03/21/2014 14:59

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41520 [INO/3026]	132950	03/21/2014 14:59	INO3026	BAL10	DTF
LCS for HBN 41520 [INO/3026]	132951	03/21/2014 14:59	INO3026	BAL10	DTF
PB070_B-2SWMID-1...(132394DUP)	132952	03/21/2014 14:59	INO3026	BAL10	DTF
PB081_A-2SWMID-140315-N	31400411001	03/21/2014 15:00	INO3026	BAL10	DTF

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41520 [INO/3026]  
 Blank Lab ID: 132950  
 Prep Batch: INO3026

Matrix: Water  
 Analysis Date/Time: 03/21/2014 14:59

**Results by SM 2540-D**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41520 [INO/3026]	132951		03/21/2014 14:59	DTF
PB070_B-2SWMID-1...(132394DUP)	132952		03/21/2014 14:59	DTF
PB081_A-2SWMID-140315-N	31400411001		03/21/2014 15:00	DTF

**Method Blank**

Blank ID: MB for HBN 41520 [INO/3026]  
 Blank Lab ID: 132950  
 QC for Samples:  
 31400411001

Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1

**Batch Information**

Analytical Batch: INO3026  
 Analytical Method: SM 2540-D  
 Instrument: BAL10  
 Analyst: DTF

Prep Batch: INO3026  
 Prep Method: SM 2540-D  
 Prep Date/Time: 3/21/2014 2:59:46PM  
 Prep Initial Wt./Vol.: 1 mL  
 Prep Extract Vol: 1 mL

**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41520 [INO/3026]  
 Blank Spike Lab ID: 132951  
 Date Analyzed: 03/21/2014 14:59

Matrix: Water

QC for Samples: 31400411001

**Results by SM 2540-D**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Suspended Solids	500	448	90	80.0-120

**Batch Information**

Analytical Batch: **INO3026**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **DTF**

Prep Batch: **INO3026**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/21/2014 14:59**  
 Spike Init Wt./Vol.: **1 mL** Extract Vol: **1 mL**  
 Dupe Init Wt./Vol.:     Extract Vol:



# SW-846 9060A

## Sample Data

Results of **PB081\_A-2SWMID-140315-N**

Client Sample ID: **PB081\_A-2SWMID-140315-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400411001-A  
 Lab Project ID: 31400411

Collection Date: 03/15/2014 10:15  
 Received Date: 03/18/2014 15:30  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	13.8		1.00	mg/L	1	03/21/2014 14:19

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 14:19**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: 0411\_1  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:13.77mg/L

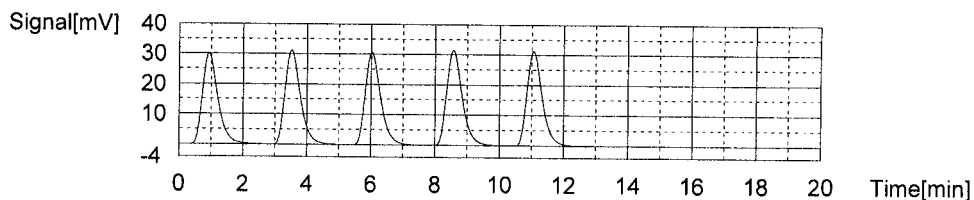
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.4	13.28mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 2:19:54 PM
2	106.7	13.83mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:22:34 PM
3	104.6	13.56mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:25:16 PM
4	107.6	13.95mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:27:55 PM
5	105.8	13.72mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:30:40 PM

Mean Area 106.2  
 Mean Conc. 13.77mg/L

*AW*  
 3-24-14



# SW-846 9060A

## QC, Blanks Data

**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3022

Prep Date: 03/21/2014 13:38

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41500 [INO/3022]	132788	03/21/2014 13:38	INO3022	TOC1	PSW
LCS for HBN 41500 [INO/3022]	132789	03/21/2014 13:57	INO3022	TOC1	PSW
PB081_A-2SWMID-140315-N	31400411001	03/21/2014 14:19	INO3022	TOC1	PSW
PB081_A-2SWMID-14...(132630MS)	132790	03/21/2014 14:41	INO3022	TOC1	PSW
PB081_A-2SWMID-1...(132630MSD)	132791	03/21/2014 15:01	INO3022	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41500 [INO/3022]  
 Blank Lab ID: 132788  
 Prep Batch: INO3022

Matrix: Water  
 Analysis Date/Time: 03/21/2014 13:38

Results by **SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41500 (INO/3022)	132985	INO3022.csv	03/21/2014 00:59	PSW
LCS for HBN 41500 [INO/3022]	132789	INO3022.csv	03/21/2014 13:57	PSW
PB081_A-2SWMID-140315-N	31400411001	INO3022.csv	03/21/2014 14:19	PSW
PB081_A-2SWMID-14...(132630MS)	132790	INO3022.csv	03/21/2014 14:41	PSW
PB081_A-2SWMID-1...(132630MSD)	132791	INO3022.csv	03/21/2014 15:01	PSW
CBV for HBN 41500 (INO/3022)	132988	INO3022.csv	03/21/2014 16:58	PSW

**Method Blank**

Blank ID: MB for HBN 41500 [INO/3022]  
 Blank Lab ID: 132788  
 QC for Samples:  
 31400411001

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3022  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3022  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/21/2014 1:38:20PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: 132788 MB  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2351mg/L

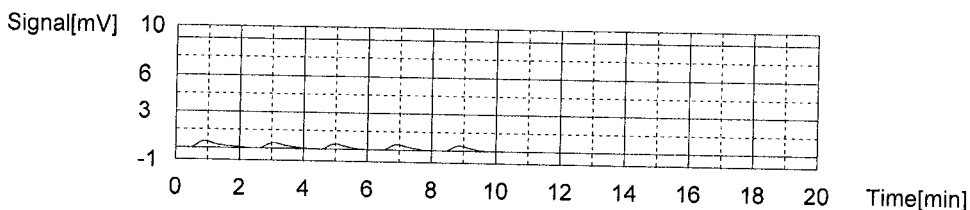
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.162	0.2803mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 1:38:20 PM
2	1.845	0.2392mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:40:25 PM
3	1.740	0.2256mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:42:30 PM
4	1.876	0.2432mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:44:36 PM
5	1.793	0.2325mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:46:43 PM

Mean Area 1.814  
 Mean Conc. 0.2351mg/L

*BSM  
3-24-14*





**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41500 [INO/3022]  
 Blank Spike Lab ID: 132789  
 Date Analyzed: 03/21/2014 13:57

Matrix: Water

QC for Samples: 31400411001

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	49.4	99	90.0-110

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 13:57**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: 132789 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.39mg/L

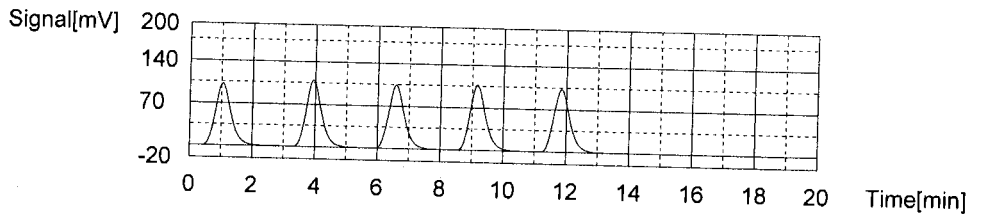
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	362.3	46.97mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 1:57:53 PM
2	385.1	49.93mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:00:39 PM
3	374.7	48.58mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:03:26 PM
4	385.2	49.94mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:06:17 PM
5	378.6	49.09mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:09:08 PM

Mean Area 380.9  
 Mean Conc. 49.39mg/L

*RM*  
 3-24-14



**Matrix Spike Summary**

Original Sample ID: 31400411001  
 (PB081\_A-2SWMID-140315-N)  
 MS Sample ID: 132790  
 MSD Sample ID: 132791  
 QC for Samples: 31400411001

Analysis Date: 03/21/2014 14:19  
 Analysis Date: 03/21/2014 14:41  
 Analysis Date: 03/21/2014 15:01  
 Matrix: Water

**Results by SW-846 9060A**

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Organic Carbon	13.8	50.0	61.1	95	50.0	61.2	95	75.0-125	0.16	25.00

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 14:19**  
 MS Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**  
 MSD Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: 132790 MS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:61.09mg/L

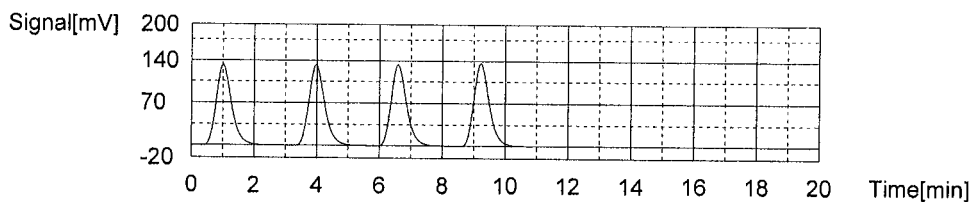
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	463.2	60.06mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:41:49 PM
2	475.8	61.69mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:44:36 PM
3	467.8	60.65mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:47:26 PM
4	477.9	61.96mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:50:16 PM

Mean Area 471.2  
 Mean Conc. 61.09mg/L

*psw  
3-24-14*



REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.i32

Sample

Sample Name: 132791 MSD  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:61.20mg/L

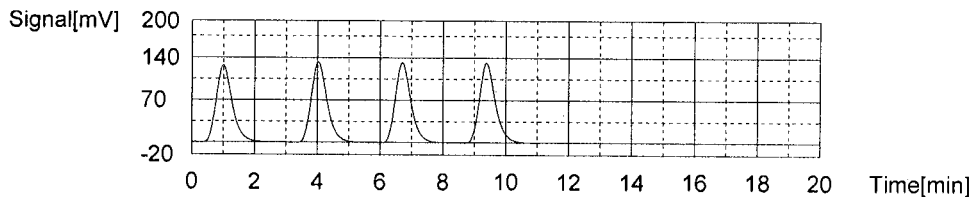
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	462.3	59.94mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:01:29 PM
2	479.1	62.12mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:04:19 PM
3	468.5	60.74mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:07:08 PM
4	478.1	61.99mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:10:05 PM

Mean Area 472.0  
 Mean Conc. 61.20mg/L

*AW*  
 3-24-14



# SW-846 9060A

## Prep, Standard, Run Logs

SGS Environmental Services

TOC Runlog Sheet

Batch: INO3022

Method: 9060

Primary Std Lot#: D-526

Matrix: Water

Secondary Std Lot#: D-455

Initial Cal. Curve: ICAL-030414W

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/21/2014 12:39	PSW			
CBV ✓	3/21/2014 12:59	PSW			
NEG ✓	3/21/2014 13:18	PSW			
132788 MB ✓	3/21/2014 13:38	PSW			
132789 LCS ✓	3/21/2014 13:57	PSW			
0411_1	3/21/2014 14:19	PSW			
132790 MS ✓	3/21/2014 14:41	PSW			
132791 MSD ✓	3/21/2014 15:01	PSW			
0420_1	3/21/2014 15:21	PSW			
0420_2	3/21/2014 15:40	PSW			
0420_3	3/21/2014 15:59	PSW			
0420_4	3/21/2014 16:19	PSW			
ICV ✓	3/21/2014 16:38	PSW			
CBV ✓	3/21/2014 16:58	PSW			
Re-run { 0420_5	3/21/2014 17:19	PSW			
0420_6	3/21/2014 17:41	PSW			
0427_1		PSW			
0427_2		PSW			
0427_3		PSW			
Re-run { 132800 MB-F1		PSW			
132801 LCS		PSW			

Analyst: \_\_\_\_\_

# SGS Environmental Services

TOC Runlog Sheet

Method: 9060  
 Matrix: Water  
 Initial Cal. Curve: ICAL-030414W

Batch: INO3022  
 Primary Std Lot#: D-526  
 Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
0427_3		PSW			
132799 DUP		PSW			
ICV		PSW			
CBV		PSW			

Analyst: \_\_\_\_\_



# SW-846 9060A

## Initial Calibration Data

REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.t32

Cal. Curve

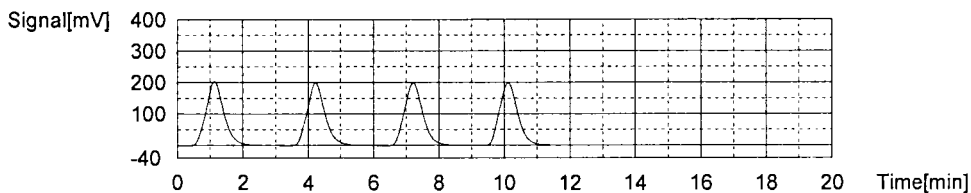
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 030414W.2014\_03\_04\_13\_51\_57.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	778.3	100ul	1	*****		3/4/2014 2:00:59 PM
2	774.6	100ul	1	*****		3/4/2014 2:06:27 PM
3	776.1	100ul	1	*****		3/4/2014 2:11:52 PM
4	769.8	100ul	1	*****		3/4/2014 2:17:17 PM

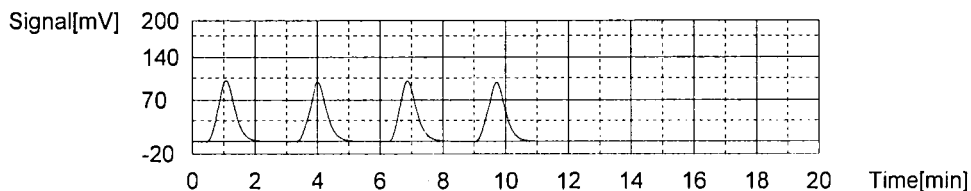
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 774.7 ✓  
*ANW 3-5-14*



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	382.0	100ul	1	*****		3/4/2014 2:27:08 PM
2	381.1	100ul	1	*****		3/4/2014 2:32:33 PM
3	380.7	100ul	1	*****		3/4/2014 2:37:49 PM
4	380.6	100ul	1	*****		3/4/2014 2:43:10 PM

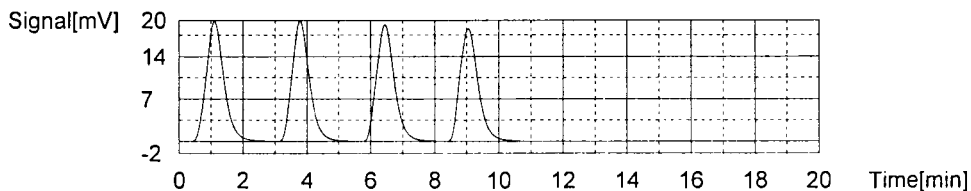
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 381.1 ✓  
*ANW 3-6-14*



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	76.52	100ul	1	*****		3/4/2014 2:52:51 PM
2	75.85	100ul	1	*****		3/4/2014 2:57:58 PM
3	75.13	100ul	1	*****		3/4/2014 3:03:05 PM
4	75.04	100ul	1	*****		3/4/2014 3:08:13 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 75.64 ✓  
*ANW 3-5-14*



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.25	100ul	1	*****		3/4/2014 3:17:22 PM
2	10.24	100ul	1	*****		3/4/2014 3:22:03 PM
3	10.27	100ul	1	*****		3/4/2014 3:26:47 PM
4	10.29	100ul	1	*****		3/4/2014 3:31:30 PM

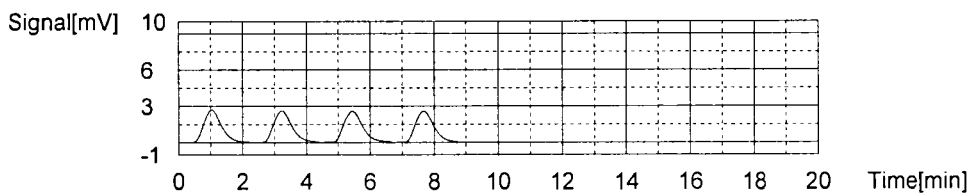
REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.i32

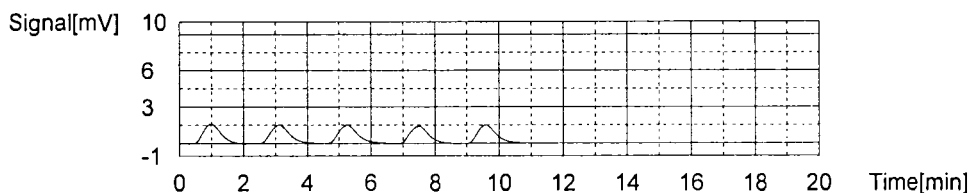
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 10.26 ✓  
*pmw 3-5-14*



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.283	100uL	1	*****		3/4/2014 3:40:32 PM
2	6.118	100uL	1	*****		3/4/2014 3:45:10 PM
3	6.095	100uL	1	*****		3/4/2014 3:49:51 PM
4	5.719	100uL	1	*****	E	3/4/2014 3:54:29 PM
5	5.937	100uL	1	*****		3/4/2014 3:59:05 PM

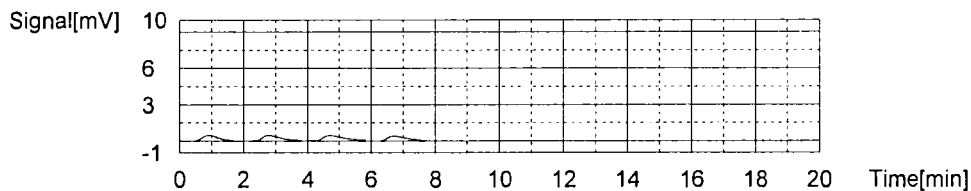
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 6.108 ✓  
*pmw 3-5-14*



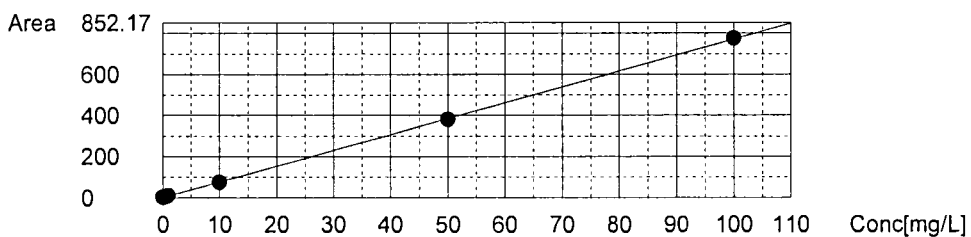
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.725	100uL	1	*****		3/4/2014 4:07:57 PM
2	1.582	100uL	1	*****		3/4/2014 4:12:20 PM
3	1.704	100uL	1	*****		3/4/2014 4:16:49 PM
4	1.572	100uL	1	*****		3/4/2014 4:21:12 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 1.646 ✓  
*pmw 3-5-14*



Slope: 7.713  
 Intercept: 0.000  
 r<sup>2</sup>: 0.999906  
 r: 0.999953  
 Zero Shift: Yes



# SW-846 9060A

## Continuing Calibration Data

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.i32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.48mg/L

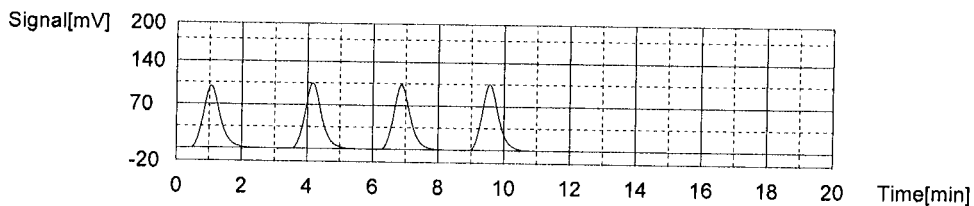
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	364.6	47.27mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:39:59 PM
2	380.2	49.29mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:42:51 PM
3	372.1	48.24mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:45:43 PM
4	378.9	49.13mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:48:34 PM

Mean Area 374.0  
 Mean Conc. 48.48mg/L

*ASW*  
 3-24-14



REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.09mg/L

1. Det

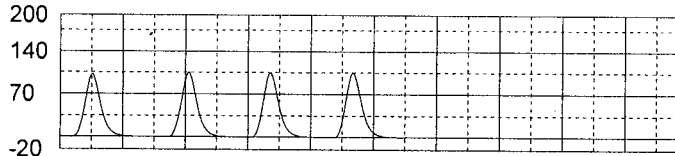
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	362.3	46.97mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:38:58 PM
2	376.9	48.87mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:41:46 PM
3	367.6	47.66mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:44:35 PM
4	377.0	48.88mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:47:24 PM

Mean Area 371.0  
 Mean Conc. 48.09mg/L

*Plm*  
*3-24-14*

Signal[mV]



Time[min]

**Analytical Blank Summary****Form 3**Analytical Batch: INO3022  
Units: mg/LInstrument: TOC1  
Analyst: PSW**Results by SW-846 9060A**

	<u>132985</u> 03/21/14 00:59	<u>132988</u> 03/21/14 16:58
Total Organic Ca	1.00U	1.00U

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3170mg/L

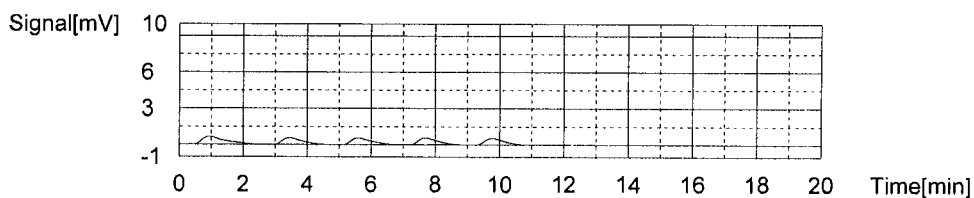
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.341	0.4332mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 12:59:27 PM
2	2.524	0.3272mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:01:44 PM
3	2.477	0.3212mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:04:00 PM
4	2.389	0.3097mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:06:13 PM
5	2.389	0.3097mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:08:27 PM

Mean Area 2.445  
 Mean Conc. 0.3170mg/L

*Plm*  
 3-24-14





REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3673mg/L

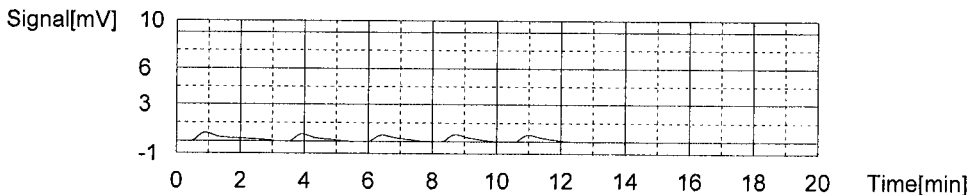
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.867	0.5014mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 4:58:53 PM
2	3.000	0.3890mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:01:31 PM
3	2.680	0.3475mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:03:58 PM
4	2.804	0.3635mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:06:24 PM
5	2.849	0.3694mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:08:52 PM

Mean Area 2.833  
 Mean Conc. 0.3673mg/L

*DMW*  
*3-24-14*





## Laboratory Report of Analysis

To: Delaney Peterson  
 ANCHOR ENVIRONMENTAL  
 720 Olive Way  
 Suite 1900  
 Seattle, WA 98101  
 US

Report Number: **31400420**

Client Project: **Patrick Bayou**

Dear Delaney Peterson,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
 SGS North America Inc.

\_\_\_\_\_  
 Jeannie Milholland  
 Quality Director  
 jeannie.milholland@sgs.com

\_\_\_\_\_  
 Date

**ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.**

## Laboratory Qualifiers

### Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

### Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

**Sample Summary**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
PB083-1SWMID-140318-N	31400420001	03/18/2014 15:23	03/19/2014 10:15	Water
PB083-1SWMID-140318-D	31400420002	03/18/2014 15:23	03/19/2014 10:15	Water
PB087-1SWMID-140318-N	31400420003	03/18/2014 15:53	03/19/2014 10:15	Water
PB091-1SWMID-140318-N	31400420004	03/18/2014 17:08	03/19/2014 10:15	Water
PB093-1SWMID-140318-N	31400420005	03/18/2014 17:37	03/19/2014 10:15	Water
PB095-1SWMID-140318-N	31400420006	03/18/2014 18:47	03/19/2014 10:15	Water

**Case Narrative**

Samples were received in good condition. There were no discrepancies to report.

2540-D - Revised report to J flag TSS results down to the MDL in order to meet the reporting limit requirements of the SAP for this project.



**Detectable Results Summary**

Client Sample ID: **PB083-1SWMID-140318-N**

Lab Sample ID: 31400420001-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	10.3	mg/L

Client Sample ID: **PB083-1SWMID-140318-D**

Lab Sample ID: 31400420002-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	10.2	mg/L

Client Sample ID: **PB087-1SWMID-140318-N**

Lab Sample ID: 31400420003-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	11.1	mg/L

Client Sample ID: **PB091-1SWMID-140318-N**

Lab Sample ID: 31400420004-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	11.6	mg/L

Client Sample ID: **PB093-1SWMID-140318-N**

Lab Sample ID: 31400420005-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	11.4	mg/L

Client Sample ID: **PB095-1SWMID-140318-N**

Lab Sample ID: 31400420006-A	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
<b>SW-846 9060A</b>	Total Organic Carbon	10.7	mg/L

**SPECIAL INSTRUCTIONS / COMMENTS:**

**SEND DOCUMENTATION / RESULTS TO:**

PROJECT INFO: PROJECT: Patrick Bayou  
 QUOTE #: 0610284-01.08 Task 4  
 SITE REF: 0610284-01.08 Task 4  
 TURN AROUND TIME: Standard  
 REPORT LEVEL: (see reverse)  Level I  Level II  Level IV  
 SPECIAL DELIVERABLES:  State of Origin:  Other:  
 PROJECT COMPANY: Delaney Peterson  
 CONTACT: Anchor REA, LLC  
 ADDRESS: 720 Olive Way, Suite 1900  
 PHONE: Seattle WA 98101  
 EMAIL: dpeterson@anchorepa.com  
 INVOICE TO:  CHECK IF SAME  
 COMPANY: PNL CONTACT: Bob Piniewski  
 ADDRESS:  
 PHONE: 919-435-0934  
 EMAIL: bob@projectnavigator.com

31400420

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	REMARKS
				MS	MSD	DUP				
	PB083-15WUMID-140318-N	3/18/14	1523				G	WS	5	PRESERVATIVE: none ANALYSIS & METHOD: HCl, TSS, PCB Organics
	PB083-15WUMID-140318-0	3/18/14	1523				G	WS	5	
	PB087-15WUMID-140318-N	3/18/14	1553				G	WS	5	
	PB091-15WUMID-140318-N	3/18/14	1708				G	WS	5	
	PB093-A-15WUMID-140318-N	3/18/14	1737				G	WS	5	
	PB095-15WUMID-140318-N	3/18/14	1847				G	WS	5	

RECEIVED BY: [Signature] DATE: 3/19/14 TIME: 10:15  
 COC SEAL:  INTACT  BROKEN  ABSENT  
 SAMPLE RECEIPT TEMP: °C 2.9, 2.2  
 CARRIER: TRACKING #:  
 NOTES:

RECEIVED BY: FedEx  
 TIME: 1929  
 RECEIVED BY:  
 TIME:

COLLECTOR RELINQUISHED BY (1): [Signature] DATE: 3/18/14  
 RELINQUISHED BY (2): Jason Kase DATE:

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Anchor Environmental

Work Order No.: 31400420

- 1.  Shipped  
 Hand Delivered
- 2.  COC Present on Receipt  
 No COC  
 Additional Transmittal Forms
- 3.  Custody Tape on Container  
 No Custody Tape
- 4.  Samples Intact  
 Samples Broken / Leaking
- 5.  Chilled on Receipt    Actual Temp.(s) in °C: 2.4, 2.2  
 Ambient on Receipt  
 Walk-in on Ice; Coming down to temp.  
 Temperature Blank Present
- 6.  Sufficient Sample Submitted  
 Insufficient Sample Submitted
- 7.  Chlorine absent  
 HNO3 < 2  
 HCL < 2  
 Additional Preservatives verified (see notes)
- 8.  Received Within Holding Time  
 Not Received Within Holding Time
- 9.  No Discrepancies Noted  
 Discrepancies Noted  
 NCDENR notified of Discrepancies\*
- 10.  No Headspace present in VOC vials  
 Headspace present in VOC vials >6mm

Notes: \_\_\_\_\_

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Comments: \_\_\_\_\_

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Inspected and Logged in by: RCH

Date: Wed-3/19/14 00:00



# SM 2540-D

## Sample Data

**Results of PB083-1SWMID-140318-N**

Client Sample ID: **PB083-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420001-C  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 15:23  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	5.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3027**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/24/2014 09:40**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



Results of **PB083-1SWMID-140318-D**

Client Sample ID: **PB083-1SWMID-140318-D**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400420002-C  
Lab Project ID: 31400420

Collection Date: 03/18/2014 15:23  
Received Date: 03/19/2014 10:15  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3027**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/24/2014 09:40**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



Results of **PB087-1SWMID-140318-N**

Client Sample ID: **PB087-1SWMID-140318-N**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400420003-C  
Lab Project ID: 31400420

Collection Date: 03/18/2014 15:53  
Received Date: 03/19/2014 10:15  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	5.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3027**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/24/2014 09:40**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of PB091-1SWMID-140318-N**

Client Sample ID: **PB091-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420004-C  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 17:08  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	12.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3027**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/24/2014 09:40**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**

**Results of PB093-1SWMID-140318-N**

Client Sample ID: **PB093-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420005-C  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 17:37  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	6.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3027**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/24/2014 09:40**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



Results of **PB095-1SWMID-140318-N**

Client Sample ID: **PB095-1SWMID-140318-N**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400420006-C  
Lab Project ID: 31400420

Collection Date: 03/18/2014 18:47  
Received Date: 03/19/2014 10:15  
Matrix: Water

Results by **SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	14.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3027**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/24/2014 09:40**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



5500 Business Drive  
Wilmington, NC 28405

# Total Suspended Solids

SM 2540 D


Batch: INO 3027	Balance: BAL10	In Oven Date: 3/24/2014
Analyst: VS	Oven: Oven #6	In Oven Time: 11:50
StandardID: TSA15	In Oven Temp: 105	Out Oven Date: 3/24/2014
	Out Oven Temp: 105	Out Oven Time: 15:00

Type	Lab ID	Vol mL	Filter Lot #	AnalYZed Date	Time	Filter g	Final g	Result mg/L
MB	132953	100	INV2	03/24/2014	9:39	0.1202	0.1199	-3
LCS	132954	25	INV2	03/24/2014	9:39	0.1214	0.1318	416
SAMPLE	31400422001	10	INV2	03/24/2014	9:40	0.1203	0.1226	230
DUP	132955	10	INV2	03/24/2014	9:40	0.1194	0.1213	190
SAMPLE	31400422002	10	INV2	03/24/2014	9:40	0.1185	0.1258	730
SAMPLE	31400401002	100	INV2	03/24/2014	9:40	0.1171	0.1241	70
SAMPLE	31400420001	100	INV2	03/24/2014	9:40	0.1223	0.1228	5
SAMPLE	31400420002	100	INV2	03/24/2014	9:40	0.1182	0.1185	3
SAMPLE	31400420003	100	INV2	03/24/2014	9:40	0.1178	0.1183	5
SAMPLE	31400420004	100	INV2	03/24/2014	9:40	0.1184	0.1196	12
SAMPLE	31400420005	100	INV2	03/24/2014	9:40	0.1189	0.1195	6
SAMPLE	31400420006	100	INV2	03/24/2014	9:40	0.1190	0.1204	14
SAMPLE	31400427001	100	INV2	03/24/2014	9:40	0.1167	0.1176	9
SAMPLE	31400427002	100	INV2	03/24/2014	9:40	0.1192	0.1198	6
SAMPLE	31400427003	100	INV2	03/24/2014	9:40	0.1243	0.1250	7

  
**Analyst Signature**

Analyst signature indicates that the data printed is a true representation of volumes and weights encountered in the analytical process. Weights are obtained through overnight drying at 105C.

3-24-14  
**Date**

Reviewed  
  
 3-24-14

The calculation of TSS is: 
$$\frac{(F2 - F1) \times 1,000,000}{V1} = \text{mg/L TSS}$$

Where: F2 = Final (g)  
 F1 = Filter (g)  
 V1 = Vol (mL)



# SM 2540-D

## QC, Blanks Data

**Batch Summary**

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Prep Batch: INO3027

Prep Date: 03/24/2014 09:39

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41522 [INO/3027]	132953	03/24/2014 09:39	INO3027	BAL10	VS
LCS for HBN 41522 [INO/3027]	132954	03/24/2014 09:39	INO3027	BAL10	VS
V13501(132775DUP)	132955	03/24/2014 09:40	INO3027	BAL10	VS
PB083-1SWMID-140318-N	31400420001	03/24/2014 09:40	INO3027	BAL10	VS
PB083-1SWMID-140318-D	31400420002	03/24/2014 09:40	INO3027	BAL10	VS
PB087-1SWMID-140318-N	31400420003	03/24/2014 09:40	INO3027	BAL10	VS
PB091-1SWMID-140318-N	31400420004	03/24/2014 09:40	INO3027	BAL10	VS
PB093-1SWMID-140318-N	31400420005	03/24/2014 09:40	INO3027	BAL10	VS
PB095-1SWMID-140318-N	31400420006	03/24/2014 09:40	INO3027	BAL10	VS

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41522 [INO/3027]  
 Blank Lab ID: 132953  
 Prep Batch: INO3027

Matrix: Water  
 Analysis Date/Time: 03/24/2014 09:39

**Results by SM 2540-D**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41522 [INO/3027]	132954		03/24/2014 09:39	VS
V13501(132775DUP)	132955		03/24/2014 09:40	VS
PB083-1SWMID-140318-N	31400420001		03/24/2014 09:40	VS
PB083-1SWMID-140318-D	31400420002		03/24/2014 09:40	VS
PB087-1SWMID-140318-N	31400420003		03/24/2014 09:40	VS
PB091-1SWMID-140318-N	31400420004		03/24/2014 09:40	VS
PB093-1SWMID-140318-N	31400420005		03/24/2014 09:40	VS
PB095-1SWMID-140318-N	31400420006		03/24/2014 09:40	VS

**Method Blank**

Blank ID: MB for HBN 41522 [INO/3027]

Matrix: Water

Blank Lab ID: 132953

QC for Samples:

31400420001, 31400420002, 31400420003, 31400420004, 31400420005, 31400420006

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1

**Batch Information**

Analytical Batch: INO3027

Prep Batch: INO3027

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Instrument: BAL10

Prep Date/Time: 3/24/2014 9:39:56AM

Analyst: VS

Prep Initial Wt./Vol.: 1 mL

Prep Extract Vol: 1 mL

**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41522 [INO/3027]

Blank Spike Lab ID: 132954

Date Analyzed: 03/24/2014 09:39

Matrix: Water

QC for Samples: 31400420001, 31400420002, 31400420003, 31400420004, 31400420005, 31400420006

**Results by SM 2540-D**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Suspended Solids	500	416	83	80.0-120

**Batch Information**

Analytical Batch: **INO3027**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3027**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/24/2014 09:39**  
 Spike Init Wt./Vol.: **1 mL** Extract Vol: **1 mL**  
 Dupe Init Wt./Vol.:    Extract Vol:

# SW-846 9060A

## Sample Data

Results of **PB083-1SWMID-140318-N**

Client Sample ID: **PB083-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420001-A  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 15:23  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	10.3		1.00	mg/L	1	03/21/2014 15:21

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 15:21**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: 0420\_1  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.27mg/L

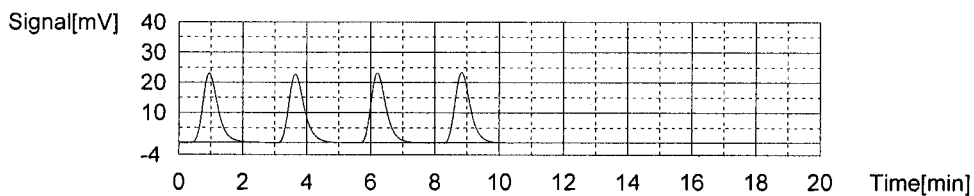
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.25	10.15mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:21:14 PM
2	79.57	10.32mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:23:57 PM
3	78.52	10.18mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:26:43 PM
4	80.65	10.46mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:29:25 PM

Mean Area 79.25  
 Mean Conc. 10.27mg/L

*AW*  
 3-24-14





**Results of PB083-1SWMID-140318-D**

Client Sample ID: **PB083-1SWMID-140318-D**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420002-A  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 15:23  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	10.2		1.00	mg/L	1	03/21/2014 15:40

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 15:40**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: 0420\_2  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.23mg/L

1. Det

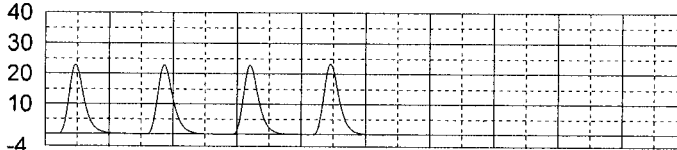
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.80	10.09mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:40:29 PM
2	79.75	10.34mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:43:19 PM
3	77.57	10.06mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:45:59 PM
4	80.45	10.43mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:48:46 PM

Mean Area 78.89  
 Mean Conc. 10.23mg/L

*RMW  
3-24-14*

Signal[mV]



0 2 4 6 8 10 12 14 16 18 20 Time[min]

Results of **PB087-1SWMID-140318-N**

Client Sample ID: **PB087-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420003-A  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 15:53  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	11.1		1.00	mg/L	1	03/21/2014 15:59

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 15:59**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.i32

Sample

Sample Name: 0420\_3  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:11.06mg/L

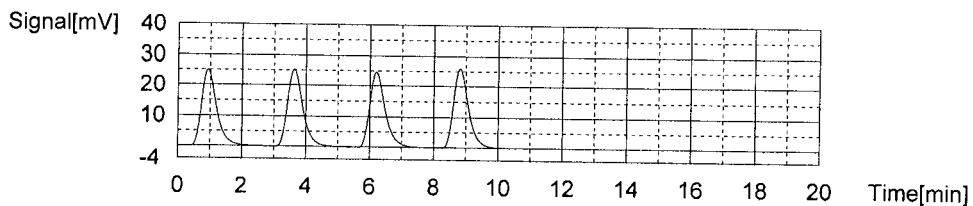
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.48	10.82mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 3:59:45 PM
2	86.34	11.19mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:02:29 PM
3	84.77	10.99mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:05:16 PM
4	86.51	11.22mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:07:56 PM

Mean Area 85.28  
 Mean Conc. 11.06mg/L

*Plw*  
*3-24-14*



Results of **PB091-1SWMID-140318-N**

Client Sample ID: **PB091-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420004-A  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 17:08  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	11.6		1.00	mg/L	1	03/21/2014 16:19

**Batch Information**

Analytical Batch: **INO3022**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3022**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/21/2014 16:19**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: 0420\_4  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:11.60mg/L

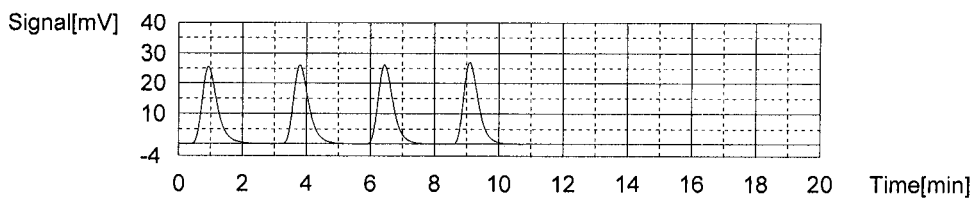
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.65	11.36mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:19:15 PM
2	90.64	11.75mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:22:02 PM
3	89.12	11.55mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:24:53 PM
4	90.60	11.75mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:27:37 PM

Mean Area 89.50  
 Mean Conc. 11.60mg/L

*Plm*  
 3-24-14



Results of **PB093-1SWMID-140318-N**

Client Sample ID: **PB093-1SWMID-140318-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400420005-A  
 Lab Project ID: 31400420

Collection Date: 03/18/2014 17:37  
 Received Date: 03/19/2014 10:15  
 Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	11.4		1.00	mg/L	1	03/26/2014 18:27

**Batch Information**

Analytical Batch: **INO3034**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3034**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 18:27**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 420\_5  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:11.43mg/L

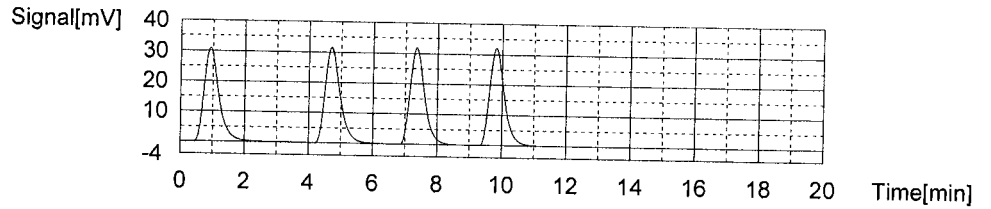
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.5	11.34mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:27:14 PM
2	104.4	11.55mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:30:01 PM
3	101.9	11.27mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:32:39 PM
4	104.4	11.55mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:35:19 PM

Mean Area 103.3  
 Mean Conc. 11.43mg/L

*PSW*  
*3-27-14*





Results of **PB095-1SWMID-140318-N**

Client Sample ID: **PB095-1SWMID-140318-N**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400420006-A  
Lab Project ID: 31400420

Collection Date: 03/18/2014 18:47  
Received Date: 03/19/2014 10:15  
Matrix: Water

Results by **SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	10.7		1.00	mg/L	1	03/26/2014 17:03

**Batch Information**

Analytical Batch: **INO3034**  
Analytical Method: **SW-846 9060A**  
Instrument: **TOC1**  
Analyst: **PSW**

Prep Batch: **INO3034**  
Prep Method: **SW-846 9060A**  
Prep Date/Time: **03/26/2014 17:03**  
Prep Initial Wt./Vol.: **40 mL**  
Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 420\_6  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.71mg/L

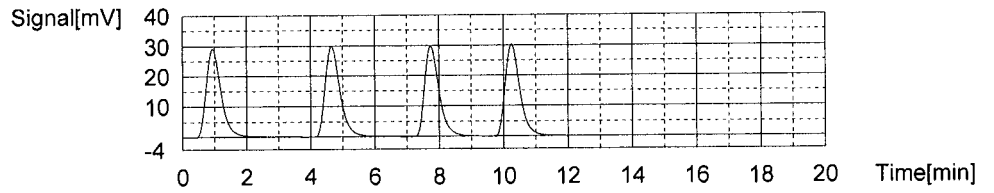
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.41	10.66mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:03:27 PM
2	97.87	10.82mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:06:43 PM
3	94.77	10.48mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:09:22 PM
4	98.19	10.86mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:12:14 PM

Mean Area 96.81  
 Mean Conc. 10.71mg/L

*Sam*  
*3-27-14*



# SW-846 9060A

## QC, Blanks Data

**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A  
 Prep Batch: INO3022  
 Prep Date: 03/21/2014 13:38

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41500 [INO/3022]	132788	03/21/2014 13:38	INO3022	TOC1	PSW
LCS for HBN 41500 [INO/3022]	132789	03/21/2014 13:57	INO3022	TOC1	PSW
PB081_A-2SWMID-14...(132630MS)	132790	03/21/2014 14:41	INO3022	TOC1	PSW
PB081_A-2SWMID-1...(132630MSD)	132791	03/21/2014 15:01	INO3022	TOC1	PSW
PB083-1SWMID-140318-N	31400420001	03/21/2014 15:21	INO3022	TOC1	PSW
PB083-1SWMID-140318-D	31400420002	03/21/2014 15:40	INO3022	TOC1	PSW
PB087-1SWMID-140318-N	31400420003	03/21/2014 15:59	INO3022	TOC1	PSW
PB091-1SWMID-140318-N	31400420004	03/21/2014 16:19	INO3022	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41500 [INO/3022]  
 Blank Lab ID: 132788  
 Prep Batch: INO3022

Matrix: Water  
 Analysis Date/Time: 03/21/2014 13:38

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41500 (INO/3022)	132985	INO3022.csv	03/21/2014 00:59	PSW
LCS for HBN 41500 [INO/3022]	132789	INO3022.csv	03/21/2014 13:57	PSW
PB081_A-2SWMID-14...(132630MS)	132790	INO3022.csv	03/21/2014 14:41	PSW
PB081_A-2SWMID-1...(132630MSD)	132791	INO3022.csv	03/21/2014 15:01	PSW
PB083-1SWMID-140318-N	31400420001	INO3022.csv	03/21/2014 15:21	PSW
PB083-1SWMID-140318-D	31400420002	INO3022.csv	03/21/2014 15:40	PSW
PB087-1SWMID-140318-N	31400420003	INO3022.csv	03/21/2014 15:59	PSW
PB091-1SWMID-140318-N	31400420004	INO3022.csv	03/21/2014 16:19	PSW
CBV for HBN 41500 (INO/3022)	132988	INO3022.csv	03/21/2014 16:58	PSW

**Method Blank**

Blank ID: MB for HBN 41500 [INO/3022]  
 Blank Lab ID: 132788  
 QC for Samples:  
 31400420001, 31400420002, 31400420003, 31400420004

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3022  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3022  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/21/2014 1:38:20PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: 132788 MB  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2351mg/L

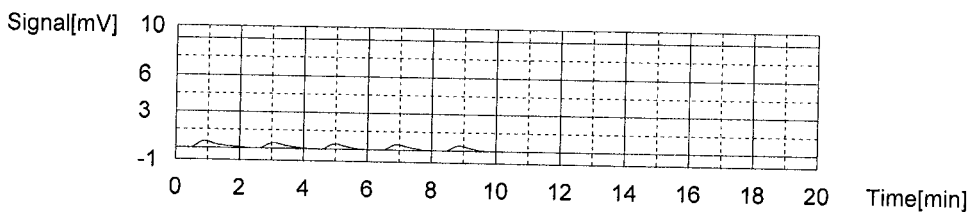
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.162	0.2803mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 1:38:20 PM
2	1.845	0.2392mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:40:25 PM
3	1.740	0.2256mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:42:30 PM
4	1.876	0.2432mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:44:36 PM
5	1.793	0.2325mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:46:43 PM

Mean Area 1.814  
 Mean Conc. 0.2351mg/L

*BSM  
3-24-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41500 [INO/3022]

Blank Spike Lab ID: 132789

Date Analyzed: 03/21/2014 13:57

Matrix: Water

QC for Samples: 31400420001, 31400420002, 31400420003, 31400420004

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	49.4	99	90.0-110

**Batch Information**

Analytical Batch: **INO3022**

Analytical Method: **SW-846 9060A**

Instrument: **TOC1**

Analyst: **PSW**

Prep Batch: **INO3022**

Prep Method: **SW-846 9060A**

Prep Date/Time: **03/21/2014 13:57**

Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**

Dupe Init Wt./Vol.: Extract Vol:



REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: 132789 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:49.39mg/L

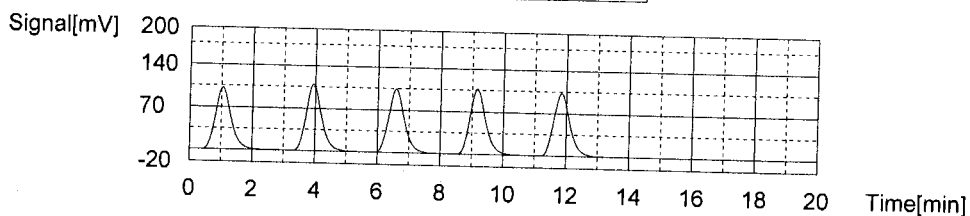
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	362.3	46.97mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 1:57:53 PM
2	385.1	49.93mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:00:39 PM
3	374.7	48.58mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:03:26 PM
4	385.2	49.94mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:06:17 PM
5	378.6	49.09mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 2:09:08 PM

Mean Area 380.9  
 Mean Conc. 49.39mg/L

*RM*  
 3-24-14



**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3034

Prep Date: 03/26/2014 14:38

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41852 [INO/3034]	133117	03/26/2014 14:38	INO3034	TOC1	PSW
LCS for HBN 41852 [INO/3034]	133118	03/26/2014 14:57	INO3034	TOC1	PSW
PB099-1SWMID-1403...(132796MS)	133119	03/26/2014 15:36	INO3034	TOC1	PSW
PB099-1SWMID-140...(132796MSD)	133120	03/26/2014 15:59	INO3034	TOC1	PSW
PB095-1SWMID-140318-N	31400420006	03/26/2014 17:03	INO3034	TOC1	PSW
PB095-1SWMID-140...(132717DUP)	132792	03/26/2014 17:25	INO3034	TOC1	PSW
PB093-1SWMID-140318-N	31400420005	03/26/2014 18:27	INO3034	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41852 [INO/3034]  
 Blank Lab ID: 133117  
 Prep Batch: INO3034

Matrix: Water  
 Analysis Date/Time: 03/26/2014 14:38

Results by **SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41852 (INO/3034)	133306	INO3034.csv	03/26/2014 13:11	PSW
LCS for HBN 41852 [INO/3034]	133118	INO3034.csv	03/26/2014 14:57	PSW
PB099-1SWMID-1403...(132796MS)	133119	INO3034.csv	03/26/2014 15:36	PSW
PB099-1SWMID-140...(132796MSD)	133120	INO3034.csv	03/26/2014 15:59	PSW
PB095-1SWMID-140318-N	31400420006	INO3034.csv	03/26/2014 17:03	PSW
PB095-1SWMID-140...(132717DUP)	132792	INO3034.csv	03/26/2014 17:25	PSW
CBV for HBN 41852 (INO/3034)	133309	INO3034.csv	03/26/2014 18:06	PSW
PB093-1SWMID-140318-N	31400420005	INO3034.csv	03/26/2014 18:27	PSW
CBV for HBN 41852 (INO/3034)	133311	INO3034.csv	03/26/2014 22:24	PSW

**Method Blank**

Blank ID: MB for HBN 41852 [INO/3034]  
 Blank Lab ID: 133117  
 QC for Samples:  
 31400420005, 31400420006

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3034  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3034  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/26/2014 2:38:03PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 133117 MB  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2077mg/L

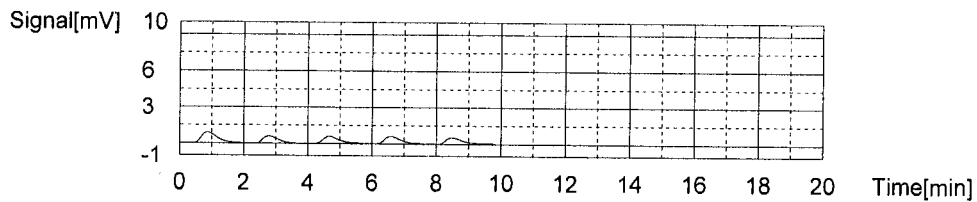
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.741	0.3032mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 2:38:03 PM
2	1.972	0.2181mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:40:06 PM
3	1.828	0.2022mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:42:10 PM
4	1.807	0.1999mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:44:13 PM
5	1.903	0.2105mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:46:36 PM

Mean Area 1.877  
 Mean Conc. 0.2077mg/L

*PSW  
3-27-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41852 [INO/3034]  
 Blank Spike Lab ID: 133118  
 Date Analyzed: 03/26/2014 14:57

Matrix: Water

QC for Samples: 31400420005, 31400420006

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	47.7	95	90.0-110

**Batch Information**

Analytical Batch: **INO3034**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3034**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 14:57**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 133118 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.68mg/L

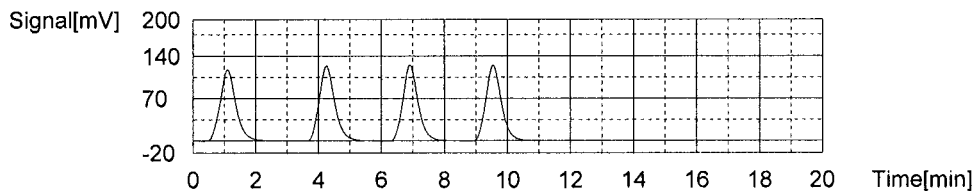
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	422.6	46.74mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:57:55 PM
2	435.9	48.21mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:00:43 PM
3	429.2	47.47mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:03:32 PM
4	436.8	48.31mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:06:20 PM

Mean Area 431.1  
 Mean Conc. 47.68mg/L

*68m*  
*3-27-14*



**Duplicate Sample Summary**

Original Sample ID: 31400420006-A  
 Duplicate Sample ID: 132792

Analysis Date: 03/26/2014 17:03  
 Analysis Date: 03/26/2014 17:25  
 Matrix: Water

QC for Samples: 31400420005, 31400420006

**Results by SW-846 9060A**

<u>PARAMETER</u>	<u>Original (mg/L)</u>	<u>Qual</u>	<u>Duplicate (mg/L)</u>	<u>Qual</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Organic Carbon	10.7		10.7		0.0	

**Batch Information**

Analytical Batch: INO3034  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name:  
Sample ID:  
Origin:  
Status  
Chk. Result

**132792**  
~~132792~~ DUP  
9060A\_TOC1\_Waters.met  
Completed

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.72mg/L

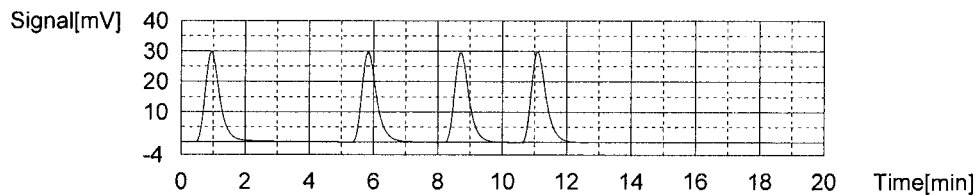
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.75	10.92mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:25:21 PM
2	97.39	10.77mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:28:22 PM
3	94.42	10.44mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:30:56 PM
4	97.17	10.75mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:33:33 PM

Mean Area 96.93  
Mean Conc. 10.72mg/L

*Done*  
*3-27-14*



# SW-846 9060A

## Prep, Standard, Run Logs

SGS Environmental Services

TOC Runlog Sheet

Batch: INO3022

Method: 9060

Primary Std Lot#: D-526

Matrix: Water

Secondary Std Lot#: D-455

Initial Cal. Curve: ICAL-030414W

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/21/2014 12:39	PSW			
CBV ✓	3/21/2014 12:59	PSW			
NEG ✓	3/21/2014 13:18	PSW			
132788 MB ✓	3/21/2014 13:38	PSW			
132789 LCS ✓	3/21/2014 13:57	PSW			
0411_1	3/21/2014 14:19	PSW			
132790 MS ✓	3/21/2014 14:41	PSW			
132791 MSD ✓	3/21/2014 15:01	PSW			
0420_1	3/21/2014 15:21	PSW			
0420_2	3/21/2014 15:40	PSW			
0420_3	3/21/2014 15:59	PSW			
0420_4	3/21/2014 16:19	PSW			
ICV ✓	3/21/2014 16:38	PSW			
CBV ✓	3/21/2014 16:58	PSW			
Re-run 0420_5	3/21/2014 17:19	PSW			
0420_6	3/21/2014 17:41	PSW			
0427_1		PSW			
0427_2		PSW			
0427_3		PSW			
132800 MB-F1		PSW			
132801 LCS		PSW			

Analyst: \_\_\_\_\_



SGS Environmental Services

TOC Runlog Sheet

Batch: INO3034 **INO 3033**

Method: **9060**

Matrix: **Water**

Primary Std Lot#: D-526

Secondary Std Lot#: D-455

Initial Cal. Curve: ICAL-031714W

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/26/2014 12:50	PSW			
CBV ✓	3/26/2014 13:11	PSW			
NEG ✓	3/26/2014 14:19	PSW			
133117 MB ✓	3/26/2014 14:38	PSW			
133118 LCS ✓	3/26/2014 14:57	PSW			
427_1	3/26/2014 15:17	PSW			
133119 MS ✓	3/26/2014 15:36	PSW			
133120 MSD ✓	3/26/2014 15:59	PSW			
427_2	3/26/2014 16:19	PSW			
427_3	3/26/2014 16:40	PSW			
420_6 ✓	3/26/2014 17:03	PSW			
132792 DUP ✓	3/26/2014 17:25	PSW			
ICV ✓	3/26/2014 17:45	PSW			
CBV	3/26/2014 18:06	PSW			
420_5	3/26/2014 18:27	PSW			
434_25	3/26/2014 18:46	PSW			
434_26	3/26/2014 19:07	PSW			
434_27	3/26/2014 19:28	PSW			
434_28	3/26/2014 19:50	PSW			
434_29	3/26/2014 20:13	PSW			
434_30	3/26/2014 20:36	PSW			

52/71

INO 3034

Analyst: \_\_\_\_\_

**SGS Environmental Services**

TOC Runlog Sheet

Batch: INO3034

Method: 9060

Primary Std Lot#: D-526

Matrix: Water

Secondary Std Lot#: D-455

Initial Cal. Curve: ICAL-031714W

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
434_31	3/26/2014 20:57	PSW			
434_32	3/26/2014 21:20	PSW			
434_33	3/26/2014 21:42	PSW			
ICV ✓	3/26/2014 22:03	PSW			
CBV ✓	3/26/2014 22:24	PSW			
434_34	3/26/2014 22:45	PSW			
434_35	3/26/2014 23:08	PSW			
132800 MB-F1 ✓	3/26/2014 23:29	PSW			
132801 LCS ✓	3/26/2014 23:51	PSW			
427_3	3/27/2014 0:11	PSW			
132799 DUP ✓	3/27/2014 0:31	PSW			
ICV ✓	3/27/2014 0:51	PSW			
CBV ✓	3/27/2014 1:12	PSW			

INO3034

INO3033

Analyst: \_\_\_\_\_

# SW-846 9060A

## Initial Calibration Data

REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.t32

Cal. Curve

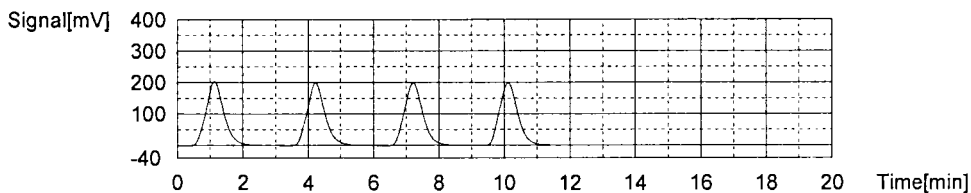
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 030414W.2014\_03\_04\_13\_51\_57.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	778.3	100ul	1	*****		3/4/2014 2:00:59 PM
2	774.6	100ul	1	*****		3/4/2014 2:06:27 PM
3	776.1	100ul	1	*****		3/4/2014 2:11:52 PM
4	769.8	100ul	1	*****		3/4/2014 2:17:17 PM

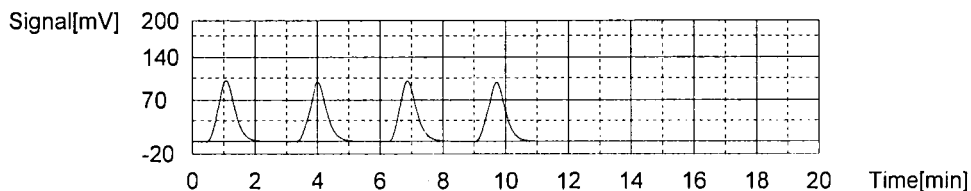
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 774.7 ✓  
*ANW 3-5-14*



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	382.0	100ul	1	*****		3/4/2014 2:27:08 PM
2	381.1	100ul	1	*****		3/4/2014 2:32:33 PM
3	380.7	100ul	1	*****		3/4/2014 2:37:49 PM
4	380.6	100ul	1	*****		3/4/2014 2:43:10 PM

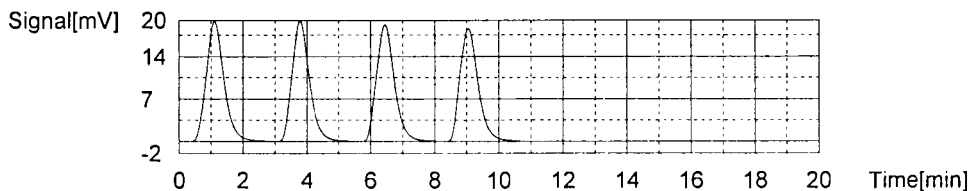
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 381.1 ✓  
*ANW 3-6-14*



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	76.52	100ul	1	*****		3/4/2014 2:52:51 PM
2	75.85	100ul	1	*****		3/4/2014 2:57:58 PM
3	75.13	100ul	1	*****		3/4/2014 3:03:05 PM
4	75.04	100ul	1	*****		3/4/2014 3:08:13 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 75.64 ✓  
*ANW 3-5-14*



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.25	100ul	1	*****		3/4/2014 3:17:22 PM
2	10.24	100ul	1	*****		3/4/2014 3:22:03 PM
3	10.27	100ul	1	*****		3/4/2014 3:26:47 PM
4	10.29	100ul	1	*****		3/4/2014 3:31:30 PM



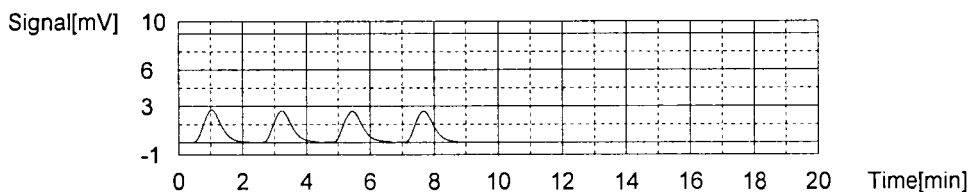
REVISED REPORT

PSW

3/4/2014 4:35:34 PM

030414W.i32

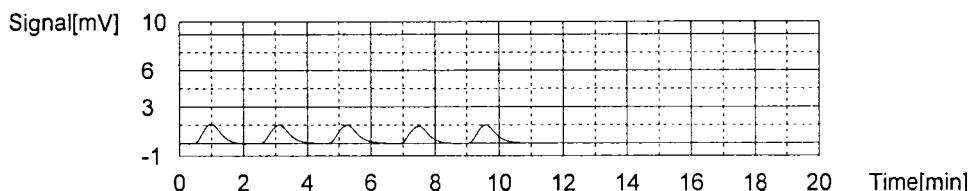
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 10.26 ✓  
*pmw 3-5-14*



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.283	100uL	1	*****		3/4/2014 3:40:32 PM
2	6.118	100uL	1	*****		3/4/2014 3:45:10 PM
3	6.095	100uL	1	*****		3/4/2014 3:49:51 PM
4	5.719	100uL	1	*****	E	3/4/2014 3:54:29 PM
5	5.937	100uL	1	*****		3/4/2014 3:59:05 PM

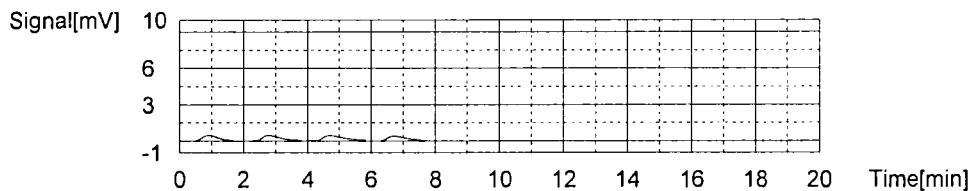
Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 6.108 ✓  
*pmw 3-5-14*



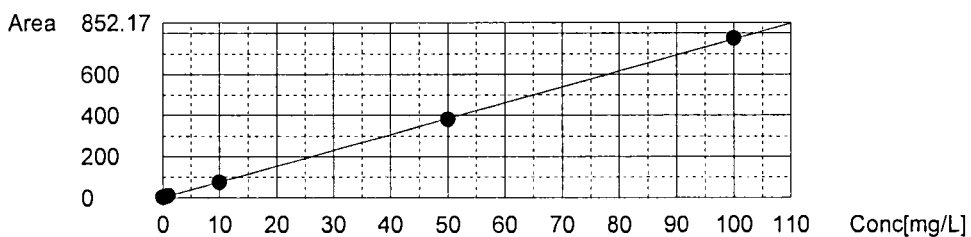
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.725	100uL	1	*****		3/4/2014 4:07:57 PM
2	1.582	100uL	1	*****		3/4/2014 4:12:20 PM
3	1.704	100uL	1	*****		3/4/2014 4:16:49 PM
4	1.572	100uL	1	*****		3/4/2014 4:21:12 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec ✓  
 Mean Area 1.646 ✓  
*pmw 3-5-14*



Slope: 7.713  
 Intercept: 0.000  
 r<sup>2</sup>: 0.999906  
 r: 0.999953  
 Zero Shift: Yes



REVISED REPORT

PSW

3/18/2014 7:49:56 AM

ICAL031714W.132

Cal. Curve

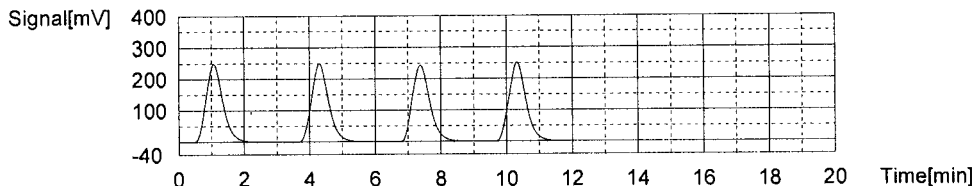
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 031714W.2014\_03\_17\_14\_28\_41.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	895.0	100uL	1	*****		3/17/2014 2:37:48 PM
2	906.7	100uL	1	*****		3/17/2014 2:43:23 PM
3	908.5	100uL	1	*****		3/17/2014 2:48:46 PM
4	918.5	100uL	1	*****		3/17/2014 2:54:11 PM

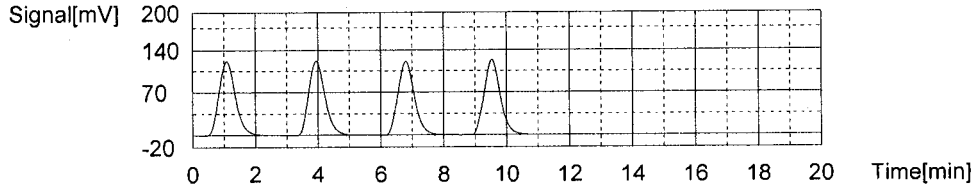
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 907.2



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	448.4	100uL	1	*****		3/17/2014 3:04:06 PM
2	446.6	100uL	1	*****		3/17/2014 3:09:24 PM
3	446.1	100uL	1	*****		3/17/2014 3:14:37 PM
4	447.4	100uL	1	*****		3/17/2014 3:19:50 PM

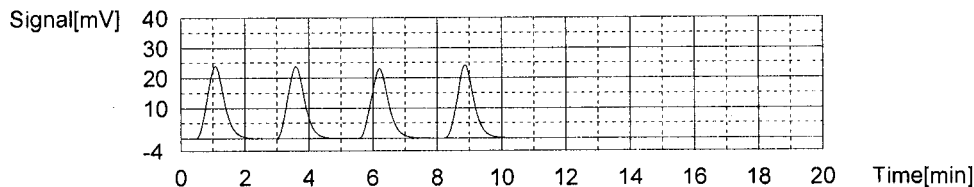
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 447.1



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	89.15	100uL	1	*****		3/17/2014 3:29:23 PM
2	88.04	100uL	1	*****		3/17/2014 3:34:26 PM
3	87.23	100uL	1	*****		3/17/2014 3:39:36 PM
4	87.46	100uL	1	*****		3/17/2014 3:44:41 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 87.97



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	11.19	100uL	1	*****		3/17/2014 3:53:53 PM
2	10.91	100uL	1	*****		3/17/2014 3:58:31 PM
3	11.25	100uL	1	*****		3/17/2014 4:03:15 PM
4	10.90	100uL	1	*****		3/17/2014 4:08:03 PM

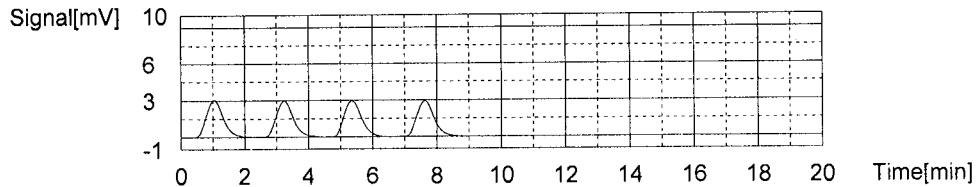
REVISED REPORT

PSW

3/18/2014 7:49:56 AM

ICAL031714W.t32

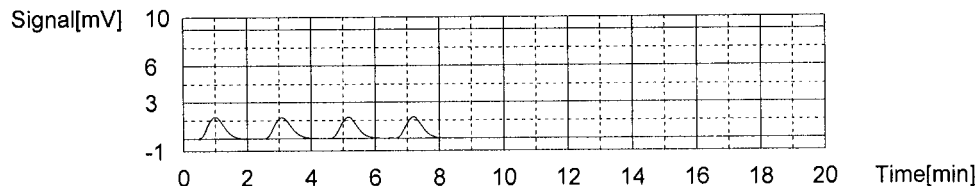
Acid Add. 1.500%  
Sp. Time 90.00sec  
Mean Area 11.06



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.601	100uL	1	*****		3/17/2014 4:17:10 PM
2	6.467	100uL	1	*****		3/17/2014 4:21:42 PM
3	6.327	100uL	1	*****		3/17/2014 4:26:13 PM
4	6.402	100uL	1	*****		3/17/2014 4:30:44 PM

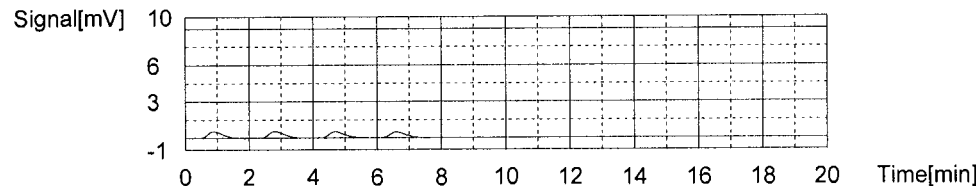
Acid Add. 1.500%  
Sp. Time 90.00sec  
Mean Area 6.449



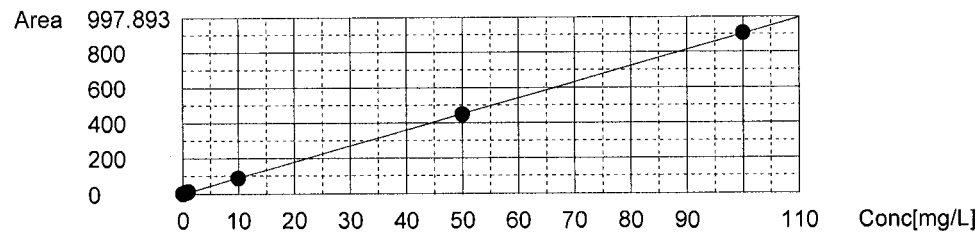
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.803	100uL	1	*****		3/17/2014 4:39:37 PM
2	1.805	100uL	1	*****		3/17/2014 4:44:00 PM
3	1.646	100uL	1	*****		3/17/2014 4:48:26 PM
4	1.621	100uL	1	*****		3/17/2014 4:52:49 PM

Acid Add. 1.500%  
Sp. Time 90.00sec  
Mean Area 1.719



Slope: 9.041  
Intercept: 0.000  
r<sup>2</sup>: 0.999926  
r: 0.999963  
Zero Shift: Yes



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3/18/2014 7:49:56 AM

ICAL031714W.t32

Instr. Information

System  
Detector  
Catalyst  
Cell Length

TOC WaterNew  
Combustion  
Regular Sensitivity  
long

# SW-846 9060A

## Continuing Calibration Data

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.i32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.48mg/L

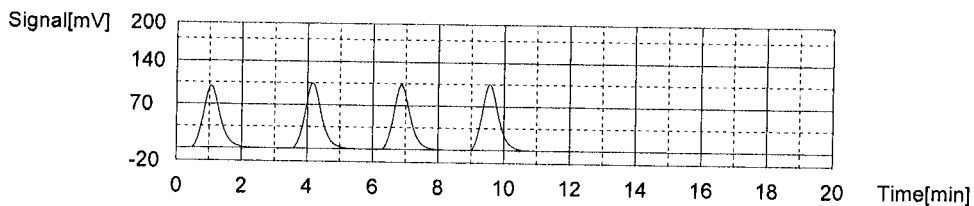
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	364.6	47.27mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:39:59 PM
2	380.2	49.29mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:42:51 PM
3	372.1	48.24mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:45:43 PM
4	378.9	49.13mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 12:48:34 PM

Mean Area 374.0  
 Mean Conc. 48.48mg/L

*ASW*  
 3-24-14



REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.09mg/L

1. Det

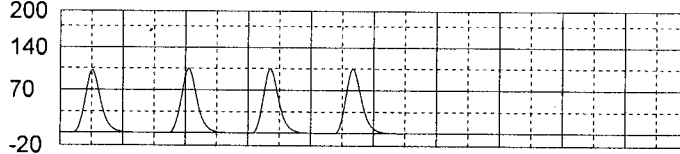
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	362.3	46.97mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:38:58 PM
2	376.9	48.87mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:41:46 PM
3	367.6	47.66mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:44:35 PM
4	377.0	48.88mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 4:47:24 PM

Mean Area 371.0  
 Mean Conc. 48.09mg/L

*Plm*  
*3-24-14*

Signal[mV]



Time[min]

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.15mg/L

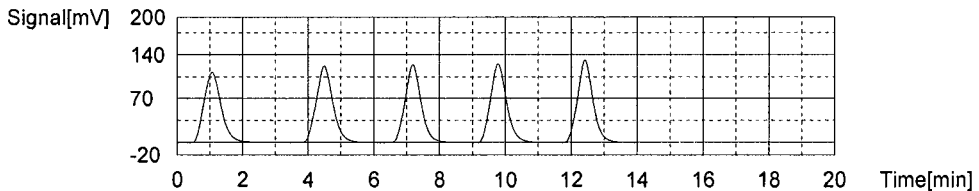
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	418.0	46.23mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 12:50:34 PM
2	438.5	48.50mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 12:53:25 PM
3	426.6	47.18mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 12:56:11 PM
4	437.9	48.43mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 12:58:57 PM
5	438.4	48.49mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:01:43 PM

Mean Area 435.4  
 Mean Conc. 48.15mg/L

*AM*  
 3-27-14





REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.57mg/L

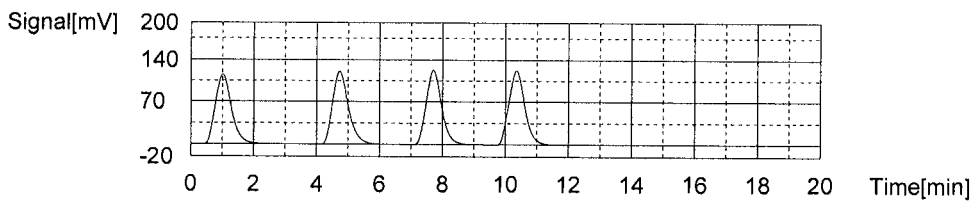
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	421.0	46.56mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:45:36 PM
2	433.7	47.97mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:48:41 PM
3	426.9	47.22mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:51:29 PM
4	438.8	48.53mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:54:15 PM

Mean Area 430.1  
 Mean Conc. 47.57mg/L

*PSW*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.92mg/L

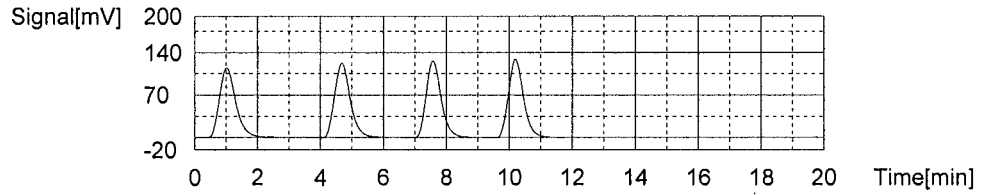
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	427.6	47.29mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:03:56 PM
2	437.5	48.39mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:07:00 PM
3	428.9	47.44mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:09:46 PM
4	439.2	48.58mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:12:29 PM

Mean Area 433.3  
 Mean Conc. 47.92mg/L

*PSW  
3-27-14*



**Analytical Blank Summary Form 3**

Analytical Batch: INO3022  
 Units: mg/L

Instrument: TOC1  
 Analyst: PSW

**Results by SW-846 9060A**

	<u>132985</u> 03/21/14 00:59	<u>132988</u> 03/21/14 16:58	<u>133306</u> 03/26/14 13:11	<u>133309</u> 03/26/14 18:06	<u>133311</u> 03/26/14 22:24
Total Organic Ca	1.00U	1.00U	1.00U	1.00U	1.00U

REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.132

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3170mg/L

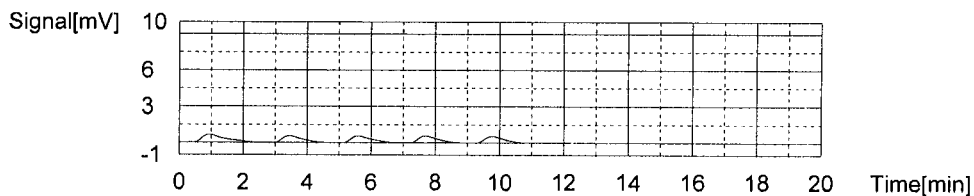
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.341	0.4332mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 12:59:27 PM
2	2.524	0.3272mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:01:44 PM
3	2.477	0.3212mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:04:00 PM
4	2.389	0.3097mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:06:13 PM
5	2.389	0.3097mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 1:08:27 PM

Mean Area 2.445  
 Mean Conc. 0.3170mg/L

*Plm*  
 3-24-14



REVISED REPORT

PSW

3/24/2014 9:14:52 AM

INO3022.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3673mg/L

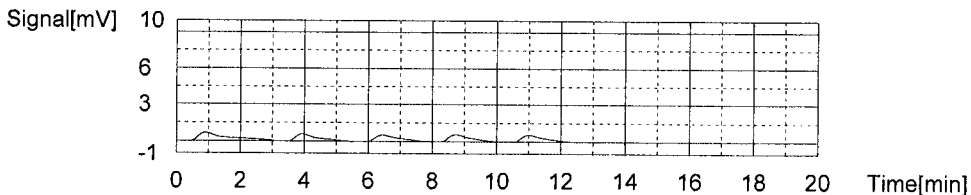
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.867	0.5014mg/L	100uL	1	E	030414W.2014_03_04_13_51_57.cal	3/21/2014 4:58:53 PM
2	3.000	0.3890mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:01:31 PM
3	2.680	0.3475mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:03:58 PM
4	2.804	0.3635mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:06:24 PM
5	2.849	0.3694mg/L	100uL	1		030414W.2014_03_04_13_51_57.cal	3/21/2014 5:08:52 PM

Mean Area 2.833  
 Mean Conc. 0.3673mg/L

*DMW  
3-24-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2479mg/L

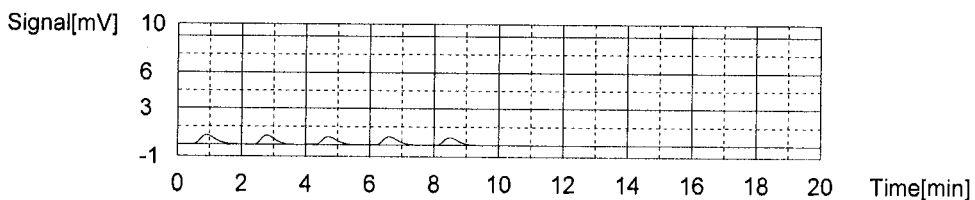
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.430	0.2688mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:11:49 PM
2	2.350	0.2599mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:13:52 PM
3	2.010	0.2223mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:15:55 PM
4	2.174	0.2405mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:17:58 PM
5	1.924	0.2128mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 1:20:02 PM

Mean Area 2.241  
 Mean Conc. 0.2479mg/L

*OBW*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2260mg/L

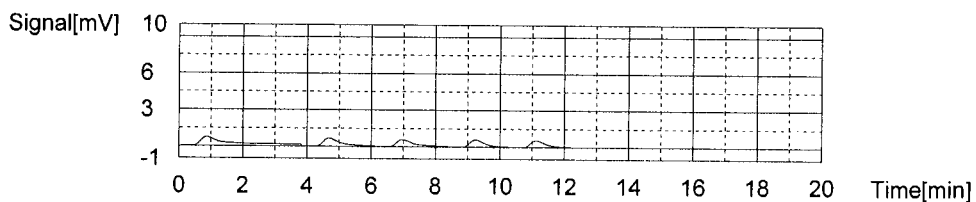
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.644	0.4030mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 6:06:22 PM
2	2.354	0.2604mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:08:48 PM
3	2.162	0.2391mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:11:14 PM
4	1.869	0.2067mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:13:17 PM
5	1.790	0.1980mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:15:21 PM

Mean Area 2.044  
 Mean Conc. 0.2260mg/L

*AW*  
 3-27-14



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1876mg/L

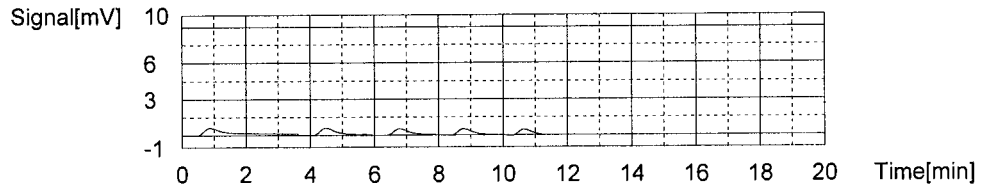
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.093	0.3421mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 10:24:19 PM
2	2.098	0.2320mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:26:46 PM
3	1.694	0.1874mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:28:55 PM
4	1.617	0.1788mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:30:59 PM
5	1.377	0.1523mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:33:02 PM

Mean Area 1.697  
 Mean Conc. 0.1876mg/L

*Blw*  
*3-27-14*







## Laboratory Report of Analysis

To: Delaney Peterson  
 ANCHOR ENVIRONMENTAL  
 720 Olive Way  
 Suite 1900  
 Seattle, WA 98101  
 US

Report Number: **31400427**

Client Project: **Patrick Bayou**

Dear Delaney Peterson,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
 SGS North America Inc.

\_\_\_\_\_  
 Jeannie Milholland  
 Quality Director  
 jeannie.milholland@sgs.com

\_\_\_\_\_  
 Date

**ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.**

## Laboratory Qualifiers

### Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

### Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

**Sample Summary**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
PB099-1SWMID-140319-N	31400427001	03/19/2014 17:13	03/20/2014 09:40	Water
PB099-1SWMID-140319-MD	31400427002	03/19/2014 16:45	03/20/2014 09:40	Water
PB101.1-1SWMID-140319-N	31400427003	03/19/2014 17:45	03/20/2014 09:40	Water

**Case Narrative**

9060A - Sample for analysis for DOC was filtered and preserved immediately upon receipt per SGS SOP.

2540-D - Revised report to J flag TSS results down to the MDL in order to meet the reporting limit requirements of the SAP for this project.

**Detectable Results Summary**

Client Sample ID: **PB099-1SWMID-140319-N**

Lab Sample ID: 31400427001-A

**SW-846 9060A**

Parameter  
Total Organic Carbon

Result  
12.1

Units  
mg/L

Client Sample ID: **PB099-1SWMID-140319-MD**

Lab Sample ID: 31400427002-A

**SW-846 9060A**

Parameter  
Total Organic Carbon

Result  
11.9

Units  
mg/L

Client Sample ID: **PB101.1-1SWMID-140319-N**

Lab Sample ID: 31400427003-C

**SW-846 9060A**

Parameter  
Dissolved Organic Carbon  
Total Organic Carbon

Result  
10.9  
10.9

Units  
mg/L  
mg/L



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

REVISED REPORT

**SPECIAL INSTRUCTIONS / COMMENTS:**

**SEND DOCUMENTATION / RESULTS TO:**

**PROJECT INFO:**

PROJECT: 040284-01.08

COMPANY: Anchor QTEA, LLC

PO. #: 31400427

CONTACT: Delaney Peterson

QUOTE #: 31400427

ADDRESS: 720 Pine Way, Ste 1900

SITE REF: Patrick Beapo / Standard

PHONE: Seattle WA 98101

TURN AROUND TIME:

EMAIL: dpeterson@anchorqtea.com

REPORT LEVEL: (see reverse)  Level I  Level II  Level III

SPECIAL DELIVERABLES:  State of Origin:  Other:

INVOICE TO: ( ) CHECK IF SAME

COMPANY: PNL

CONTACT: Bob Piniewski

ADDRESS:

PHONE:

EMAIL: bob@projectnavigator.com

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	REMARKS
				MS	MSD	DUP				
PB099-150MID-140319-N	3/19/14 1713	G	WS	5	None	None	None	None	None	*Filter upon receipt **Filter and preserve upon receipt
PB099-150MID-140319-MD	3/19/14 1645	G	WS	5	None	None	None	None	None	None
PB101-150MID-140319-N	3/19/14 1715	G	WS	9	None	None	None	None	None	None

RECEIVED BY (1):	DATE:	TIME:
<i>Shawn Jason Kice</i>	3/19/14	1740
RECEIVED BY (2):	DATE:	TIME:

RECEIVED BY LABORATORY:	DATE:	TIME:
<i>Paul [Signature]</i>	3/20/14	09:40
COC SEAL: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		
SAMPLE RECEIPT TEMP: °C	4.0	
CARRIER:	TRACKING #:	
NOTES:		

REVISED REPORT  
SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Anchor Environmental Work Order No.: 31400427

1.  Shipped  
 Hand Delivered
2.  COC Present on Receipt  
 No COC  
 Additional Transmittal Forms
3.  Custody Tape on Container  
 No Custody Tape
4.  Samples Intact  
 Samples Broken / Leaking
5.  Chilled on Receipt    Actual Temp.(s) in °C: 4    Thermometer ID#: Login-1D  
 Ambient on Receipt  
 Walk-in on Ice; Coming down to temp.  
 Temperature Blank Present
6.  Sufficient Sample Submitted  
 Insufficient Sample Submitted
7.  Chlorine absent  
 HNO3 < 2  
 HCL < 2  
 Additional Preservatives verified (see notes)
8.  Received Within Holding Time  
 Not Received Within Holding Time
9.  No Discrepancies Noted  
 Discrepancies Noted  
 NCDENR notified of Discrepancies\*
10.  No Headspace present in VOC vials  
 Headspace present in VOC vials >6mm

Notes: \_\_\_\_\_  
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Comments: \_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

Inspected and Logged in by: RCH  
Date: Thu-3/20/14 00:00

# SM 2540-D

## Sample Data



**Results of PB099-1SWMID-140319-N**

Client Sample ID: **PB099-1SWMID-140319-N**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400427001-C  
Lab Project ID: 31400427

Collection Date: 03/19/2014 17:13  
Received Date: 03/20/2014 09:40  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	9.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3027**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/24/2014 09:40**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**



**Results of PB099-1SWMID-140319-MD**

Client Sample ID: **PB099-1SWMID-140319-MD**  
Client Project ID: **Patrick Bayou**  
Lab Sample ID: 31400427002-C  
Lab Project ID: 31400427

Collection Date: 03/19/2014 16:45  
Received Date: 03/20/2014 09:40  
Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	6.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
Analytical Method: **SM 2540-D**  
Instrument: **BAL10**  
Analyst: **VS**

Prep Batch: **INO3027**  
Prep Method: **SM 2540-D**  
Prep Date/Time: **03/24/2014 09:40**  
Prep Initial Wt./Vol.: **1 mL**  
Prep Extract Vol: **1 mL**

**Results of PB101.1-1SWMID-140319-N**

Client Sample ID: **PB101.1-1SWMID-140319-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400427003-E  
 Lab Project ID: 31400427

Collection Date: 03/19/2014 17:45  
 Received Date: 03/20/2014 09:40  
 Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	7.0	J	3.60	25.0	mg/L	1	03/24/2014 9:40

**Batch Information**

Analytical Batch: **INO3027**  
 Analytical Method: **SM 2540-D**  
 Instrument: **BAL10**  
 Analyst: **VS**

Prep Batch: **INO3027**  
 Prep Method: **SM 2540-D**  
 Prep Date/Time: **03/24/2014 09:40**  
 Prep Initial Wt./Vol.: **1 mL**  
 Prep Extract Vol: **1 mL**



5500 Business Drive  
Wilmington, NC 28405

# Total Suspended Solids

SM 2540 D


Batch: INO 3027	Balance: BAL10	In Oven Date: 3/24/2014
Analyst: VS	Oven: Oven #6	In Oven Time: 11:50
StandardID: TSA15	In Oven Temp: 105	Out Oven Date: 3/24/2014
	Out Oven Temp: 105	Out Oven Time: 15:00

Type	Lab ID	Vol mL	Filter Lot #	AnalYZed Date	Time	Filter g	Final g	Result mg/L
MB	132953	100	INV2	03/24/2014	9:39	0.1202	0.1199	-3
LCS	132954	25	INV2	03/24/2014	9:39	0.1214	0.1318	416
SAMPLE	31400422001	10	INV2	03/24/2014	9:40	0.1203	0.1226	230
DUP	132955	10	INV2	03/24/2014	9:40	0.1194	0.1213	190
SAMPLE	31400422002	10	INV2	03/24/2014	9:40	0.1185	0.1258	730
SAMPLE	31400401002	100	INV2	03/24/2014	9:40	0.1171	0.1241	70
SAMPLE	31400420001	100	INV2	03/24/2014	9:40	0.1223	0.1228	5
SAMPLE	31400420002	100	INV2	03/24/2014	9:40	0.1182	0.1185	3
SAMPLE	31400420003	100	INV2	03/24/2014	9:40	0.1178	0.1183	5
SAMPLE	31400420004	100	INV2	03/24/2014	9:40	0.1184	0.1196	12
SAMPLE	31400420005	100	INV2	03/24/2014	9:40	0.1189	0.1195	6
SAMPLE	31400420006	100	INV2	03/24/2014	9:40	0.1190	0.1204	14
SAMPLE	31400427001	100	INV2	03/24/2014	9:40	0.1167	0.1176	9
SAMPLE	31400427002	100	INV2	03/24/2014	9:40	0.1192	0.1198	6
SAMPLE	31400427003	100	INV2	03/24/2014	9:40	0.1243	0.1250	7

  
**Analyst Signature**

Analyst signature indicates that the data printed is a true representation of volumes and weights encountered in the analytical process. Weights are obtained through overnight drying at 105C.

3-24-14  
**Date**

Reviewed  
  
 3-24-14

The calculation of TSS is: 
$$\frac{(F2 - F1) \times 1,000,000}{V1} = \text{mg/L TSS}$$

Where: F2 = Final (g)  
 F1 = Filter (g)  
 V1 = Vol (mL)

# SM 2540-D

## QC, Blanks Data

**Batch Summary**

Analytical Method: SM 2540-D

Prep Method: SM 2540-D

Prep Batch: INO3027

Prep Date: 03/24/2014 09:39

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41522 [INO/3027]	132953	03/24/2014 09:39	INO3027	BAL10	VS
LCS for HBN 41522 [INO/3027]	132954	03/24/2014 09:39	INO3027	BAL10	VS
V13501(132775DUP)	132955	03/24/2014 09:40	INO3027	BAL10	VS
PB099-1SWMID-140319-N	31400427001	03/24/2014 09:40	INO3027	BAL10	VS
PB099-1SWMID-140319-MD	31400427002	03/24/2014 09:40	INO3027	BAL10	VS
PB101.1-1SWMID-140319-N	31400427003	03/24/2014 09:40	INO3027	BAL10	VS

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41522 [INO/3027]  
 Blank Lab ID: 132953  
 Prep Batch: INO3027

Matrix: Water  
 Analysis Date/Time: 03/24/2014 09:39

**Results by SM 2540-D**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
LCS for HBN 41522 [INO/3027]	132954		03/24/2014 09:39	VS
V13501(132775DUP)	132955		03/24/2014 09:40	VS
PB099-1SWMID-140319-N	31400427001		03/24/2014 09:40	VS
PB099-1SWMID-140319-MD	31400427002		03/24/2014 09:40	VS
PB101.1-1SWMID-140319-N	31400427003		03/24/2014 09:40	VS



**Method Blank**

Blank ID: MB for HBN 41522 [INO/3027]  
Blank Lab ID: 132953  
QC for Samples:  
31400427001, 31400427002, 31400427003

Matrix: Water

**Results by SM 2540-D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Suspended Solids	ND		3.60	25.0	mg/L	1

**Batch Information**

Analytical Batch: INO3027  
Analytical Method: SM 2540-D  
Instrument: BAL10  
Analyst: VS

Prep Batch: INO3027  
Prep Method: SM 2540-D  
Prep Date/Time: 3/24/2014 9:39:56AM  
Prep Initial Wt./Vol.: 1 mL  
Prep Extract Vol: 1 mL



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41522 [INO/3027]

Blank Spike Lab ID: 132954

Date Analyzed: 03/24/2014 09:39

Matrix: Water

QC for Samples: 31400427001, 31400427002, 31400427003

**Results by SM 2540-D**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Suspended Solids	500	416	83	80.0-120

**Batch Information**

Analytical Batch: **INO3027**

Analytical Method: **SM 2540-D**

Instrument: **BAL10**

Analyst: **VS**

Prep Batch: **INO3027**

Prep Method: **SM 2540-D**

Prep Date/Time: **03/24/2014 09:39**

Spike Init Wt./Vol.: **1 mL** Extract Vol: **1 mL**

Dupe Init Wt./Vol.: Extract Vol:

# SW-846 9060A

## Sample Data

**Results of PB099-1SWMID-140319-N**

Client Sample ID: **PB099-1SWMID-140319-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400427001-A  
 Lab Project ID: 31400427

Collection Date: 03/19/2014 17:13  
 Received Date: 03/20/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	12.1		1.00	mg/L	1	03/26/2014 15:17

**Batch Information**

Analytical Batch: **INO3034**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3034**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 15:17**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 427\_1  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:12.09mg/L

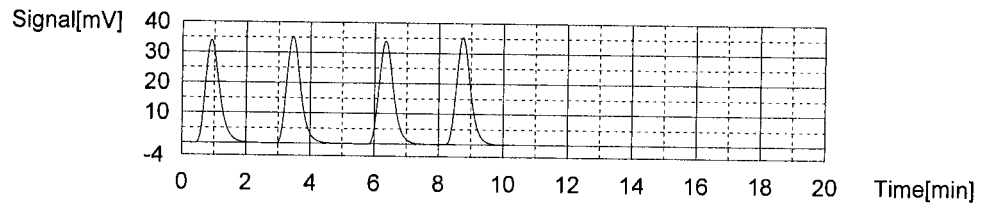
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	107.3	11.87mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:17:03 PM
2	110.8	12.25mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:20:04 PM
3	108.8	12.03mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:22:38 PM
4	110.3	12.20mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:25:05 PM

Mean Area 109.3  
 Mean Conc. 12.09mg/L

*Am*  
 3-27-14



**Results of PB099-1SWMID-140319-MD**

Client Sample ID: **PB099-1SWMID-140319-MD**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400427002-A  
 Lab Project ID: 31400427

Collection Date: 03/19/2014 16:45  
 Received Date: 03/20/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Organic Carbon	11.9		1.00	mg/L	1	03/26/2014 16:19

**Batch Information**

Analytical Batch: **INO3034**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3034**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 16:19**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name: 427\_2  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:11.86mg/L

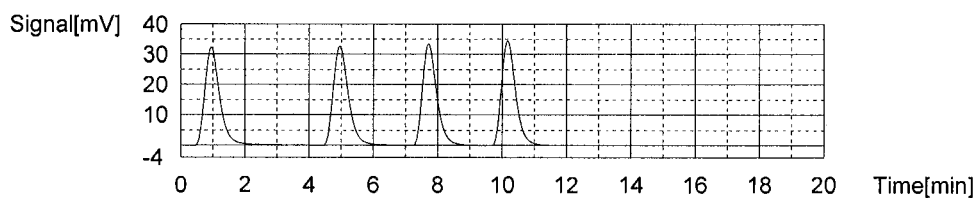
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.9	11.82mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:19:49 PM
2	108.4	11.99mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:22:45 PM
3	105.3	11.65mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:25:22 PM
4	108.3	11.98mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:28:02 PM

Mean Area 107.2  
 Mean Conc. 11.86mg/L

*PSW*  
*3-27-14*



**Results of PB101.1-1SWMID-140319-N**

Client Sample ID: **PB101.1-1SWMID-140319-N**  
 Client Project ID: **Patrick Bayou**  
 Lab Sample ID: 31400427003-C  
 Lab Project ID: 31400427

Collection Date: 03/19/2014 17:45  
 Received Date: 03/20/2014 09:40  
 Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dissolved Organic Carbon	<b>10.9</b>		1.00	mg/L	1	03/27/2014 0:11
Total Organic Carbon	<b>10.9</b>		1.00	mg/L	1	03/26/2014 16:40

**Batch Information**

Analytical Batch: **INO3023**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3023**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/27/2014 00:11**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

Analytical Batch: **INO3034**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3034**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 16:40**  
 Prep Initial Wt./Vol.: **40 mL**  
 Prep Extract Vol: **40 mL**

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 427\_3  
Sample ID:  
Origin: 9060A\_TOC1\_Waters.met  
Status: Completed  
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.91mg/L

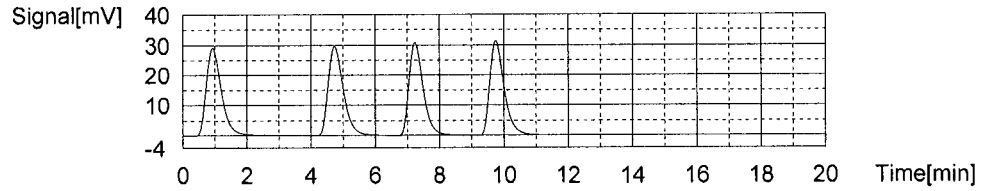
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.35	10.88mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:11:33 AM
2	99.34	10.99mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:14:14 AM
3	96.90	10.72mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:16:54 AM
4	100.0	11.06mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:19:30 AM

Mean Area 98.65  
Mean Conc. 10.91mg/L

*PSW*  
*3-27-14*





REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 427\_3  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1,000	NPOC:10.93mg/L

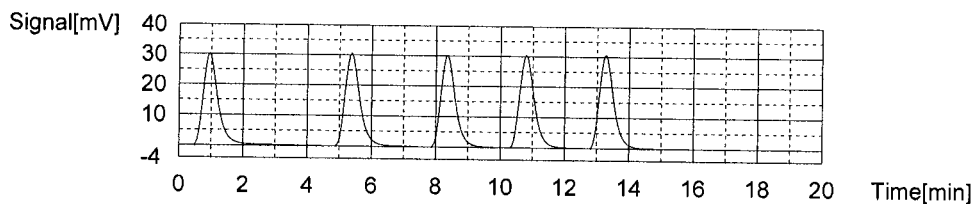
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.33	10.99mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:40:40 PM
2	99.67	11.02mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:43:48 PM
3	95.22	10.53mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 4:46:24 PM
4	98.73	10.92mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:49:02 PM
5	97.52	10.79mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:51:37 PM

Mean Area 98.81  
 Mean Conc. 10.93mg/L

*POW*  
*3-27-14*



# SW-846 9060A

## QC, Blanks Data

**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3023

Prep Date: 03/26/2014 23:29

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB-F1 for HBN 41502 [INO/3023]	132800	03/26/2014 23:29	INO3023	TOC1	PSW
LCS for HBN 41502 [INO/3023]	132801	03/26/2014 23:51	INO3023	TOC1	PSW
PB101.1-1SWMID-140319-N	31400427003	03/27/2014 00:11	INO3023	TOC1	PSW
PB101.1-1SWMID-1...(132798DUP)	132799	03/27/2014 00:31	INO3023	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB-F1 for HBN 41502 [INO/3023]  
 Blank Lab ID: 132800  
 Prep Batch: INO3023

Matrix: Water  
 Analysis Date/Time: 03/26/2014 23:29

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41502 (INO/3023)	133315	INO3023.csv	03/26/2014 22:24	PSW
LCS for HBN 41502 [INO/3023]	132801	INO3023.csv	03/26/2014 23:51	PSW
PB101.1-1SWMID-140319-N	31400427003	INO3023.csv	03/27/2014 00:11	PSW
PB101.1-1SWMID-1...(132798DUP)	132799	INO3023.csv	03/27/2014 00:31	PSW
CBV for HBN 41502 (INO/3023)	133318	INO3023.csv	03/27/2014 01:12	PSW

**Method Blank**

Blank ID: MB-F1 for HBN 41502 [INO/3023]  
 Blank Lab ID: 132800  
 QC for Samples:  
 31400427003

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Dissolved Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3023  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3023  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/26/2014 11:29:46PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name: 132800 MB-F1  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2113mg/L

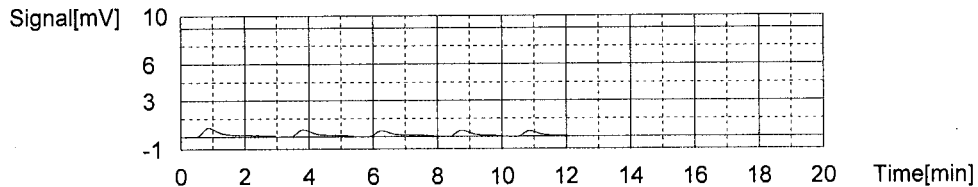
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.804	0.3101mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 11:29:46 PM
2	2.267	0.2507mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 11:32:22 PM
3	1.968	0.2177mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 11:35:01 PM
4	1.786	0.1975mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 11:37:17 PM
5	1.620	0.1792mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 11:39:26 PM

Mean Area 1.910  
 Mean Conc. 0.2113mg/L

*DMW*  
 3-27-14



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41502 [INO/3023]  
 Blank Spike Lab ID: 132801  
 Date Analyzed: 03/26/2014 23:51

Matrix: Water

QC for Samples: 31400427003

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Dissolved Organic Carbon	50.0	47.5	95	90.0-110

**Batch Information**

Analytical Batch: **INO3023**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3023**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 23:51**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 132801 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.52mg/L

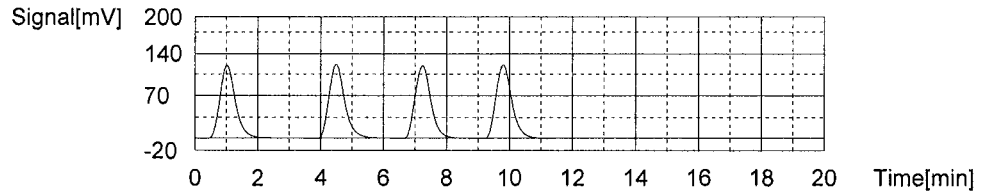
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	421.9	46.66mg/L	100uL	1	1	031714W.2014_03_17_14_28_41.cal	3/26/2014 11:51:03 PM
2	433.9	47.99mg/L	100uL	1	1	031714W.2014_03_17_14_28_41.cal	3/26/2014 11:53:57 PM
3	426.8	47.21mg/L	100uL	1	1	031714W.2014_03_17_14_28_41.cal	3/26/2014 11:56:40 PM
4	436.0	48.22mg/L	100uL	1	1	031714W.2014_03_17_14_28_41.cal	3/26/2014 11:59:31 PM

Mean Area 429.7  
 Mean Conc. 47.52mg/L

*BJW*  
*3-27-14*





**Duplicate Sample Summary**

Original Sample ID: 31400427003-C  
 Duplicate Sample ID: 132799

Analysis Date: 03/27/2014 00:11  
 Analysis Date: 03/27/2014 00:31  
 Matrix: Water

QC for Samples: 31400427003

**Results by SW-846 9060A**

<u>PARAMETER</u>	<u>Original (mg/L)</u>	<u>Qual</u>	<u>Duplicate (mg/L)</u>	<u>Qual</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Dissolved Organic Carbon	10.9		11.4		4.5	

**Batch Information**

Analytical Batch: INO3023  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 132799 DUP  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:11.42mg/L

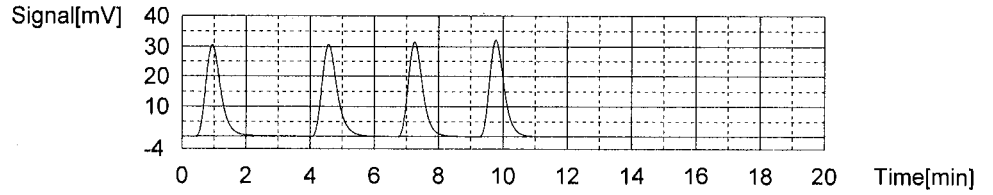
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	103.3	11.43mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:31:26 AM
2	103.9	11.49mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:34:17 AM
3	101.4	11.22mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:36:58 AM
4	104.5	11.56mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:39:43 AM

Mean Area 103.3  
 Mean Conc. 11.42mg/L

*80mV*  
*3-27-14*



**Batch Summary**

Analytical Method: SW-846 9060A

Prep Method: SW-846 9060A

Prep Batch: INO3034

Prep Date: 03/26/2014 14:38

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 41852 [INO/3034]	133117	03/26/2014 14:38	INO3034	TOC1	PSW
LCS for HBN 41852 [INO/3034]	133118	03/26/2014 14:57	INO3034	TOC1	PSW
PB099-1SWMID-140319-N	31400427001	03/26/2014 15:17	INO3034	TOC1	PSW
PB099-1SWMID-1403...(132796MS)	133119	03/26/2014 15:36	INO3034	TOC1	PSW
PB099-1SWMID-140...(132796MSD)	133120	03/26/2014 15:59	INO3034	TOC1	PSW
PB099-1SWMID-140319-MD	31400427002	03/26/2014 16:19	INO3034	TOC1	PSW
PB101.1-1SWMID-140319-N	31400427003	03/26/2014 16:40	INO3034	TOC1	PSW
PB095-1SWMID-140...(132717DUP)	132792	03/26/2014 17:25	INO3034	TOC1	PSW

**Method Blank Summary Form 4**

Blank ID: MB for HBN 41852 [INO/3034]  
 Blank Lab ID: 133117  
 Prep Batch: INO3034

Matrix: Water  
 Analysis Date/Time: 03/26/2014 14:38

**Results by SW-846 9060A**

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Filename</u>	<u>Date Analyzed</u>	<u>Analyst</u>
CBV for HBN 41852 (INO/3034)	133306	INO3034.csv	03/26/2014 13:11	PSW
LCS for HBN 41852 [INO/3034]	133118	INO3034.csv	03/26/2014 14:57	PSW
PB099-1SWMID-140319-N	31400427001	INO3034.csv	03/26/2014 15:17	PSW
PB099-1SWMID-1403...(132796MS)	133119	INO3034.csv	03/26/2014 15:36	PSW
PB099-1SWMID-140...(132796MSD)	133120	INO3034.csv	03/26/2014 15:59	PSW
PB099-1SWMID-140319-MD	31400427002	INO3034.csv	03/26/2014 16:19	PSW
PB101.1-1SWMID-140319-N	31400427003	INO3034.csv	03/26/2014 16:40	PSW
PB095-1SWMID-140...(132717DUP)	132792	INO3034.csv	03/26/2014 17:25	PSW
CBV for HBN 41852 (INO/3034)	133309	INO3034.csv	03/26/2014 18:06	PSW

**Method Blank**

Blank ID: MB for HBN 41852 [INO/3034]  
 Blank Lab ID: 133117  
 QC for Samples:  
 31400427001, 31400427002, 31400427003

Matrix: Water

**Results by SW-846 9060A**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Total Organic Carbon	ND		1.00	mg/L	1

**Batch Information**

Analytical Batch: INO3034  
 Analytical Method: SW-846 9060A  
 Instrument: TOC1  
 Analyst: PSW

Prep Batch: INO3034  
 Prep Method: SW-846 9060A  
 Prep Date/Time: 3/26/2014 2:38:03PM  
 Prep Initial Wt./Vol.: 40 mL  
 Prep Extract Vol: 40 mL

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 133117 MB  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2077mg/L

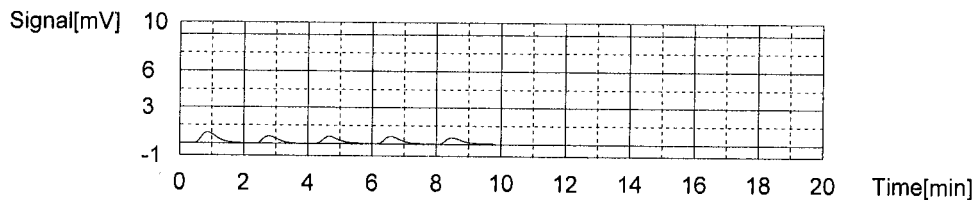
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.741	0.3032mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 2:38:03 PM
2	1.972	0.2181mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:40:06 PM
3	1.828	0.2022mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:42:10 PM
4	1.807	0.1999mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:44:13 PM
5	1.903	0.2105mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:46:36 PM

Mean Area 1.877  
 Mean Conc. 0.2077mg/L

*PSW  
3-27-14*



**Blank Spike Summary**

Blank Spike ID: LCS for HBN 41852 [INO/3034]  
 Blank Spike Lab ID: 133118  
 Date Analyzed: 03/26/2014 14:57

Matrix: Water

QC for Samples: 31400427001, 31400427002, 31400427003

**Results by SW-846 9060A**

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Total Organic Carbon	50.0	47.7	95	90.0-110

**Batch Information**

Analytical Batch: **INO3034**  
 Analytical Method: **SW-846 9060A**  
 Instrument: **TOC1**  
 Analyst: **PSW**

Prep Batch: **INO3034**  
 Prep Method: **SW-846 9060A**  
 Prep Date/Time: **03/26/2014 14:57**  
 Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**  
 Dupe Init Wt./Vol.:      Extract Vol:

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: 133118 LCS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.68mg/L

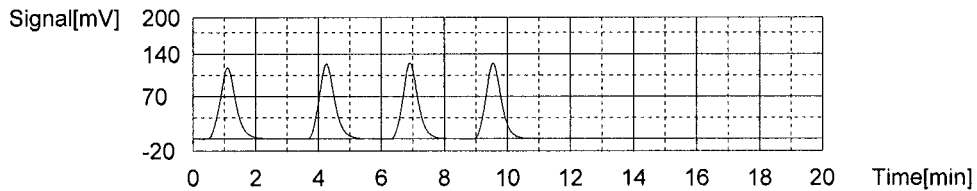
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	422.6	46.74mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 2:57:55 PM
2	435.9	48.21mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:00:43 PM
3	429.2	47.47mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:03:32 PM
4	436.8	48.31mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:06:20 PM

Mean Area 431.1  
 Mean Conc. 47.68mg/L

*68m*  
*3-27-14*





**Matrix Spike Summary**

Original Sample ID: 31400427001 (PB099-1SWMID-140319-N)      Analysis Date: 03/26/2014 15:17  
 MS Sample ID: 133119      Analysis Date: 03/26/2014 15:36  
 MSD Sample ID: 133120      Analysis Date: 03/26/2014 15:59  
 Matrix: Water  
 QC for Samples: 31400427001, 31400427002, 31400427003

**Results by SW-846 9060A**

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Organic Carbon	12.1	50.0	60.5	97	50.0	60.2	96	75.0-125	0.50	25.00

**Batch Information**

Analytical Batch: <b>INO3034</b>	Prep Batch: <b>INO3034</b>
Analytical Method: <b>SW-846 9060A</b>	Prep Method: <b>SW-846 9060A</b>
Instrument: <b>TOC1</b>	Prep Date/Time: <b>03/26/2014 15:17</b>
Analyst: <b>PSW</b>	MS Init Wt./Vol.: <b>40 mL</b> Extract Vol.: <b>40 mL</b>
	MSD Init Wt./Vol.: <b>40 mL</b> Extract Vol.: <b>40 mL</b>

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name: 133119 MS  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:60.52mg/L

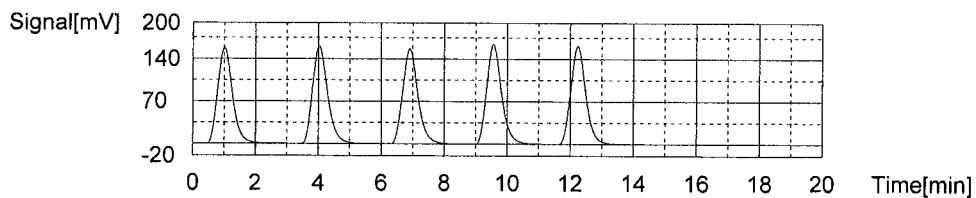
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	528.9	58.50mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 3:36:20 PM
2	550.7	60.91mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:39:19 PM
3	540.4	59.77mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:42:10 PM
4	552.7	61.13mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:44:59 PM
5	545.0	60.28mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:47:47 PM

Mean Area 547.2  
 Mean Conc. 60.52mg/L

*16W*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.r32

Sample

Sample Name: 133120 MSD  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:60.15mg/L

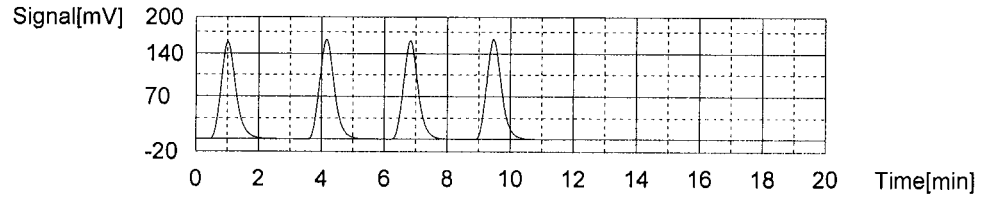
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	535.1	59.18mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 3:59:02 PM
2	551.9	61.04mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:01:51 PM
3	537.6	59.46mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:04:43 PM
4	550.9	60.93mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 4:07:36 PM

Mean Area 543.9  
 Mean Conc. 60.15mg/L

*PSW*  
*3-27-14*



# SW-846 9060A

## Prep, Standard, Run Logs

SGS Environmental Services

TOC Runlog Sheet

Batch: INO3034 **INO 3033**

Method: **9060**

Matrix: **Water**

Primary Std Lot#: D-526

Initial Cal. Curve: ICAL-031714W

Secondary Std Lot#: D-455

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
ICV ✓	3/26/2014 12:50	PSW			
CBV ✓	3/26/2014 13:11	PSW			
NEG ✓	3/26/2014 14:19	PSW			
133117 MB ✓	3/26/2014 14:38	PSW			
133118 LCS ✓	3/26/2014 14:57	PSW			
427_1	3/26/2014 15:17	PSW			
133119 MS ✓	3/26/2014 15:36	PSW			
133120 MSD ✓	3/26/2014 15:59	PSW			
427_2	3/26/2014 16:19	PSW			
427_3	3/26/2014 16:40	PSW			
420_6 ✓	3/26/2014 17:03	PSW			
133792 DUP ✓	3/26/2014 17:25	PSW			
ICV ✓	3/26/2014 17:45	PSW			
CBV	3/26/2014 18:06	PSW			
420_5	3/26/2014 18:27	PSW			
434_25	3/26/2014 18:46	PSW			
434_26	3/26/2014 19:07	PSW			
434_27	3/26/2014 19:28	PSW			
434_28	3/26/2014 19:50	PSW			
434_29	3/26/2014 20:13	PSW			
434_30	3/26/2014 20:36	PSW			

45/60

INO 3034

Analyst: \_\_\_\_\_

**SGS Environmental Services**

TOC Runlog Sheet

Batch: INO30334

Primary Std Lot#: D-526

Secondary Std Lot#: D-455

Method: 9060

Matrix: Water

Initial Cal. Curve: ICAL-031714W

REVISED REPORT

SAMPLE ID / DILUTION	DATE / TIME	OPER	QC	pH	Comments
434_31	3/26/2014 20:57	PSW			
434_32	3/26/2014 21:20	PSW			
434_33	3/26/2014 21:42	PSW			
ICV ✓	3/26/2014 22:03	PSW			
CBV ✓	3/26/2014 22:24	PSW			
434_34	3/26/2014 22:45	PSW			
434_35	3/26/2014 23:08	PSW			
132800 MB-F1 ✓	3/26/2014 23:29	PSW			
132801 LCS ✓	3/26/2014 23:51	PSW			
427_3	3/27/2014 0:11	PSW			
132799 DUP ✓	3/27/2014 0:31	PSW			
ICV ✓	3/27/2014 0:51	PSW			
CBV ✓	3/27/2014 1:12	PSW			

I NO 3034

I NO 3033

Analyst: \_\_\_\_\_

# SW-846 9060A

## Initial Calibration Data

REVISED REPORT

PSW

3/18/2014 7:49:56 AM

ICAL031714W.132

Cal. Curve

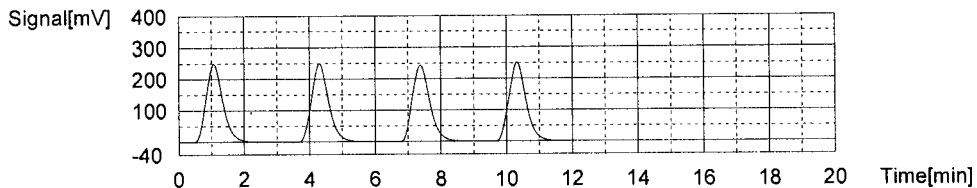
Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: 031714W.2014\_03\_17\_14\_28\_41.cal  
 Status: Completed

Type	Anal.
Standard	NPOC

Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	895.0	100uL	1	*****		3/17/2014 2:37:48 PM
2	906.7	100uL	1	*****		3/17/2014 2:43:23 PM
3	908.5	100uL	1	*****		3/17/2014 2:48:46 PM
4	918.5	100uL	1	*****		3/17/2014 2:54:11 PM

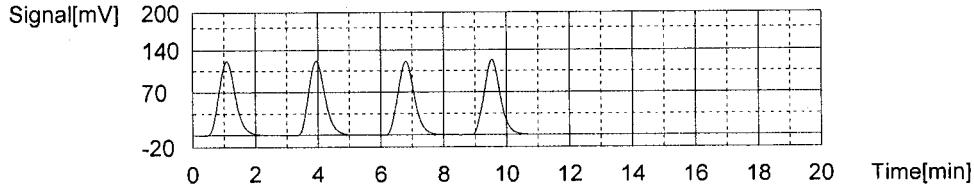
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 907.2



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	448.4	100uL	1	*****		3/17/2014 3:04:06 PM
2	446.6	100uL	1	*****		3/17/2014 3:09:24 PM
3	446.1	100uL	1	*****		3/17/2014 3:14:37 PM
4	447.4	100uL	1	*****		3/17/2014 3:19:50 PM

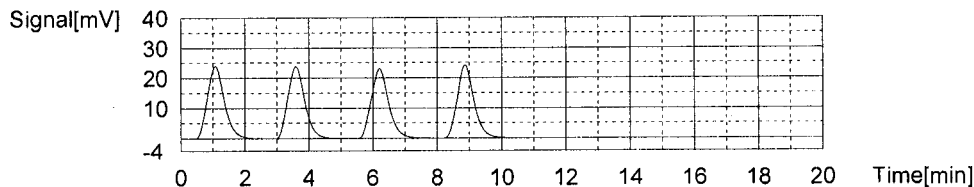
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 447.1



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	89.15	100uL	1	*****		3/17/2014 3:29:23 PM
2	88.04	100uL	1	*****		3/17/2014 3:34:26 PM
3	87.23	100uL	1	*****		3/17/2014 3:39:36 PM
4	87.46	100uL	1	*****		3/17/2014 3:44:41 PM

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 87.97



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	11.19	100uL	1	*****		3/17/2014 3:53:53 PM
2	10.91	100uL	1	*****		3/17/2014 3:58:31 PM
3	11.25	100uL	1	*****		3/17/2014 4:03:15 PM
4	10.90	100uL	1	*****		3/17/2014 4:08:03 PM



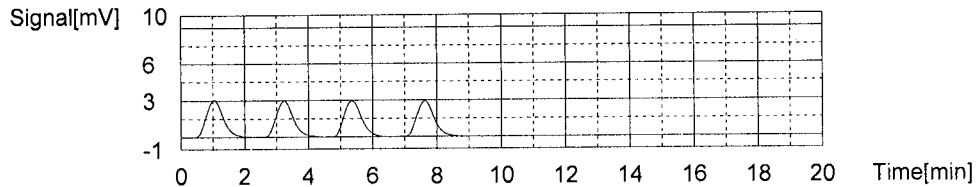
REVISED REPORT

PSW

3/18/2014 7:49:56 AM

ICAL031714W.t32

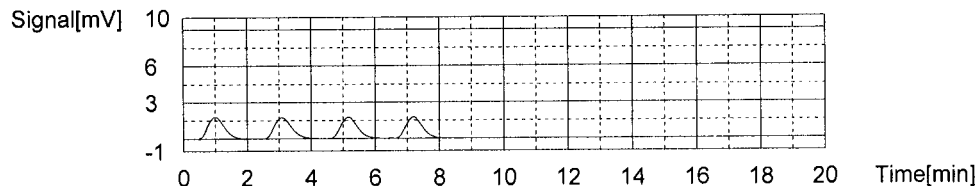
Acid Add. 1.500%  
Sp. Time 90.00sec  
Mean Area 11.06



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.601	100uL	1	*****		3/17/2014 4:17:10 PM
2	6.467	100uL	1	*****		3/17/2014 4:21:42 PM
3	6.327	100uL	1	*****		3/17/2014 4:26:13 PM
4	6.402	100uL	1	*****		3/17/2014 4:30:44 PM

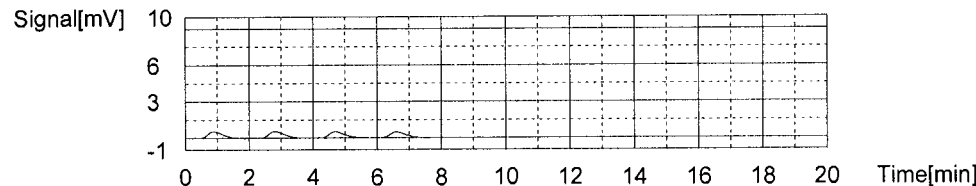
Acid Add. 1.500%  
Sp. Time 90.00sec  
Mean Area 6.449



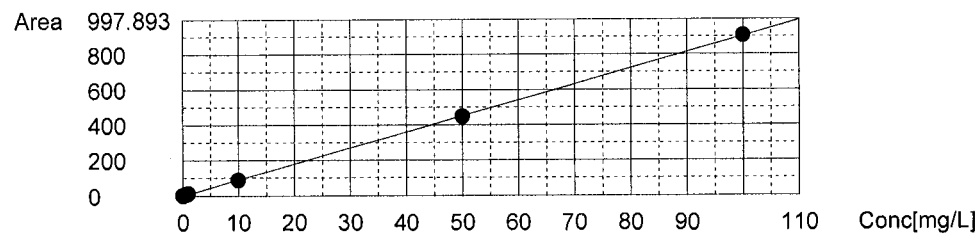
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.803	100uL	1	*****		3/17/2014 4:39:37 PM
2	1.805	100uL	1	*****		3/17/2014 4:44:00 PM
3	1.646	100uL	1	*****		3/17/2014 4:48:26 PM
4	1.621	100uL	1	*****		3/17/2014 4:52:49 PM

Acid Add. 1.500%  
Sp. Time 90.00sec  
Mean Area 1.719



Slope: 9.041  
Intercept: 0.000  
r<sup>2</sup>: 0.999926  
r: 0.999963  
Zero Shift: Yes



REVISED REPORT

PSW

3/18/2014 7:49:56 AM

ICAL031714W.t32

Instr. Information

System  
Detector  
Catalyst  
Cell Length

TOC WaterNew  
Combustion  
Regular Sensitivity  
long

# SW-846 9060A

## Continuing Calibration Data

REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name:  
Sample ID:  
Origin:  
Status  
Chk. Result

ICV  
9060A\_TOC1\_Waters.met  
Completed

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:48.15mg/L

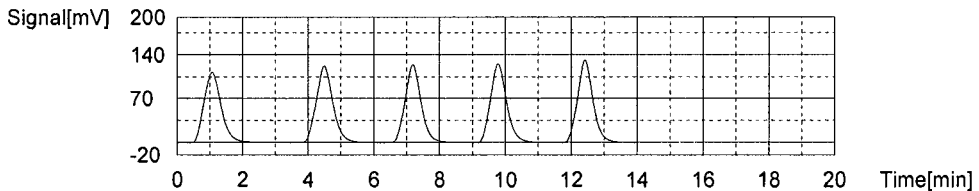
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	418.0	46.23mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 12:50:34 PM
2	438.5	48.50mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 12:53:25 PM
3	426.6	47.18mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 12:56:11 PM
4	437.9	48.43mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 12:58:57 PM
5	438.4	48.49mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:01:43 PM

Mean Area 435.4  
Mean Conc. 48.15mg/L

*AM*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.57mg/L

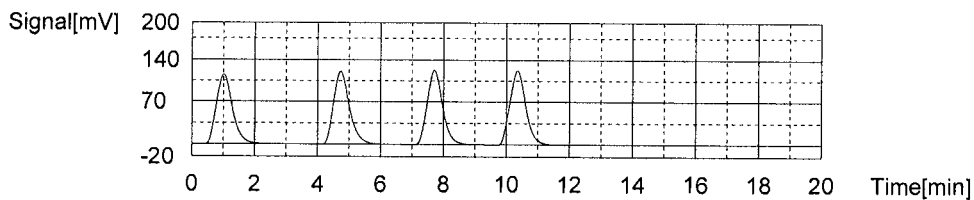
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	421.0	46.56mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:45:36 PM
2	433.7	47.97mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:48:41 PM
3	426.9	47.22mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:51:29 PM
4	438.8	48.53mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 5:54:15 PM

Mean Area 430.1  
 Mean Conc. 47.57mg/L

*PSW*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.92mg/L

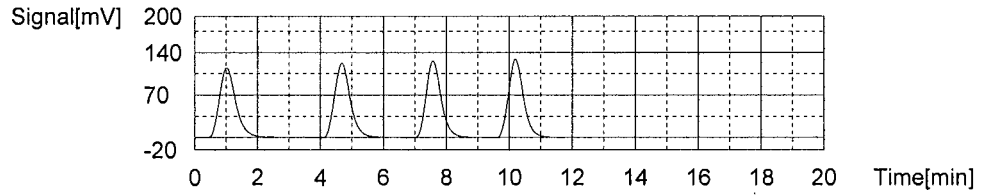
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	427.6	47.29mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:03:56 PM
2	437.5	48.39mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:07:00 PM
3	428.9	47.44mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:09:46 PM
4	439.2	48.58mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:12:29 PM

Mean Area 433.3  
 Mean Conc. 47.92mg/L

*PSW  
3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: ICV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:47.58mg/L

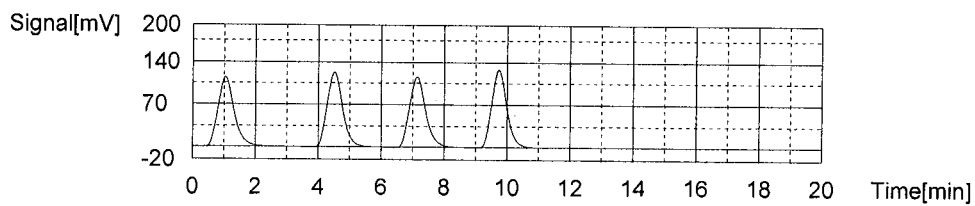
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	421.8	46.65mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:51:31 AM
2	432.8	47.87mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:54:18 AM
3	427.0	47.23mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:57:04 AM
4	439.2	48.58mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 12:59:54 AM

Mean Area 430.2  
 Mean Conc. 47.58mg/L

*PSW*  
*3-27-14*



**Analytical Blank Summary Form 3**

Analytical Batch: INO3034  
 Units: mg/L

Instrument: TOC1  
 Analyst: PSW

**Results by SW-846 9060A**

	<u>133306</u> 03/26/14 13:11	<u>133309</u> 03/26/14 18:06	<u>133315</u> 03/26/14 22:24	<u>133318</u> 03/27/14 01:12
Dissolved Organ			1.00U	1.00U
Total Organic Ca	1.00U	1.00U		



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2479mg/L

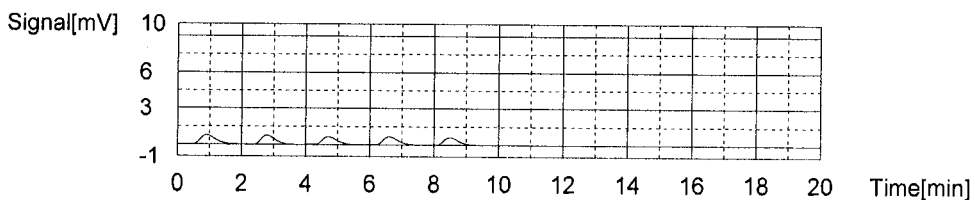
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.430	0.2688mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:11:49 PM
2	2.350	0.2599mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:13:52 PM
3	2.010	0.2223mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:15:55 PM
4	2.174	0.2405mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 1:17:58 PM
5	1.924	0.2128mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 1:20:02 PM

Mean Area 2.241  
 Mean Conc. 0.2479mg/L

*OBW*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.t32

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2260mg/L

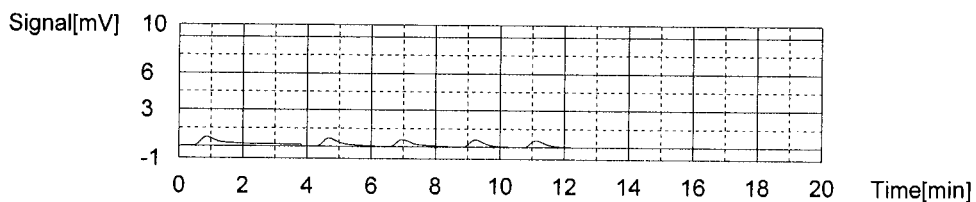
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.644	0.4030mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 6:06:22 PM
2	2.354	0.2604mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:08:48 PM
3	2.162	0.2391mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:11:14 PM
4	1.869	0.2067mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:13:17 PM
5	1.790	0.1980mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 6:15:21 PM

Mean Area 2.044  
 Mean Conc. 0.2260mg/L

*AW*  
 3-27-14



REVISED REPORT

PSW 3/27/2014 8:07:06 AM INO3034.t32

Sample

Sample Name: CBV  
 Sample ID: 9060A\_TOC1\_Waters.met  
 Origin: Completed  
 Status: Completed  
 Chk. Result:

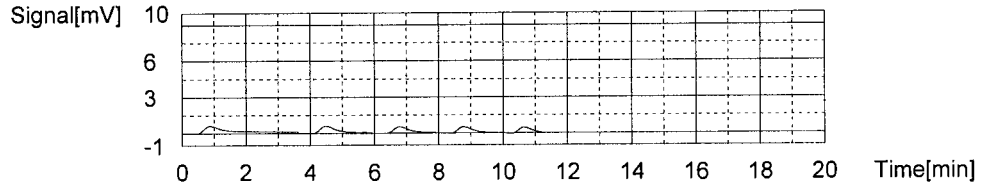
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1876mg/L

1. Det  
 Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.093	0.3421mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/26/2014 10:24:19 PM
2	2.098	0.2320mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:26:46 PM
3	1.694	0.1874mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:28:55 PM
4	1.617	0.1788mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:30:59 PM
5	1.377	0.1523mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/26/2014 10:33:02 PM

Mean Area 1.697  
 Mean Conc. 0.1876mg/L

*Blw*  
*3-27-14*



REVISED REPORT

PSW

3/27/2014 8:07:06 AM

INO3034.132

Sample

Sample Name: CBV  
 Sample ID:  
 Origin: 9060A\_TOC1\_Waters.met  
 Status: Completed  
 Chk. Result:

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2163mg/L

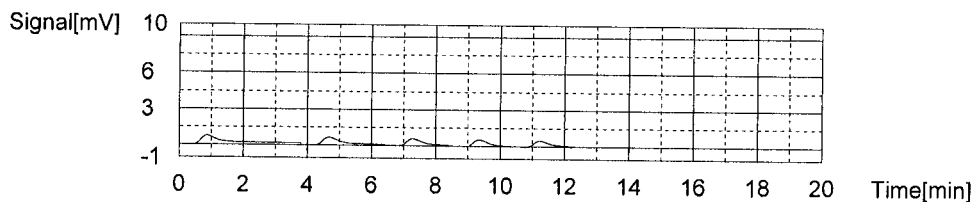
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.562	0.3940mg/L	100uL	1	E	031714W.2014_03_17_14_28_41.cal	3/27/2014 1:12:01 AM
2	2.491	0.2755mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 1:14:47 AM
3	1.985	0.2195mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 1:17:01 AM
4	1.689	0.1868mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 1:19:04 AM
5	1.656	0.1832mg/L	100uL	1		031714W.2014_03_17_14_28_41.cal	3/27/2014 1:21:08 AM

Mean Area 1.955  
 Mean Conc. 0.2163mg/L

*PSW*  
*3-27-14*





2 APRIL 2014

**DELANEY PETERSON  
ANCHOR QEA**

7200 Olive Way, Ste 300  
Seattle WA 98101

t. 206-287-9130  
e. DPeterson@anchorqea.com

**SUBJECT: CERTIFICATE OF RESULTS**

Dear Delaney;

Attached to this narrative are the analytical results for sample(s) submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes information about the project. If applicable, QC annotations below highlight specific analytical observations and assessments made during the sample handling and data interpretation phases.

Results reported relate only to the items tested.

**PROJECT INFORMATION SUMMARY** *(When applicable, see QC Annotations for details)*

Client Project	Patrick Bayou Superfund Ste
SGS Project #	A6492
Analytical Protocol(s)	Method 1668A
No. Samples Submitted	5
Additional QC Sample(s)	0
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
Date Received	12-Mar-2014
Condition Received	good
Temperature upon Receipt (C)	2.2 - 3.4
Extraction within Holding Time	yes
Analysis within Holding Time	yes

**QC ANNOTATIONS:**

1.	Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.
2.	Samples noted as "DISSOLVED" in the sample IDs were filtered with a 0.45 µm filter prior to extraction.

SGS remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at [www.sgs.com/ultraTRACE](http://www.sgs.com/ultraTRACE) and click on the 'Email Us' link or go to our survey [here](#). Thank you for choosing SGS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amy Boehm', written over a light gray rectangular background.

Digitally signed by Amy Boehm  
Date: 2014.04.02 17:34:31 -04'00'

Amy J. Boehm  
Senior Project Manager



## APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. <sup>1</sup>
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. <sup>1</sup>
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



## APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

## APPENDIX C: LAB IDENTIFIERS


AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.





## SGS CERTIFICATIONS

California	07255CA
Connecticut	PH-0258
Florida (primary NELAP)	E87634
ISO17025	2726.01
Kansas	E-10330
Louisiana	04115
Maryland (DW only)	299
New Jersey	NC100
New York	11685
North Carolina DENR	481
North Carolina DHHS (DW only)	37776
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029
Texas	T104704260-13-5
Utah	NC009192013-3
Virginia (DW only)	00235
Virginia	460214
Washington State	C913
West Virginia	293

<b>Sample Summary</b>				<b>Method 1668A</b>		
Analyte	Method Blank A6492	PB006.2-1 SWMID-140311- D (Total)	PB006.2-1 SWMID-140311- D (Dissolved)	PB006.2-1 SWMID-140311- N (Total)	PB006.2-1 SWMID-140311- N (Dissolved)	HSC14.1- 1SWMID- 140311-N (Total)
	Conc. pg/L	Conc. pg/L	Conc. pg/L	Conc. pg/L	Conc. pg/L	Conc. pg/L
PCB-77	(2.89)	102	30	196	35.1	3.38
PCB-81	(2.89)	(4.33)	(4.6)	(10.2)	(3.33)	(2.77)
PCB-105	(2.31)	308	77.4	591	78.1	15.9
PCB-114	(2.08)	16.7	(3.95)	26.3	(3)	(2.74)
PCB-118	(2.2)	600	145	1170	157	42.7
PCB-123	(2.24)	14.2	(4.09)	24.6	4.17	(2.98)
PCB-126	(2.79)	(2.52)	(3.32)	(6.96)	(2.62)	(2.32)
PCB-156/157	(4.73)	37.8	6.59	[78.6]	[7.6]	5.72
PCB-167	(3.35)	[11.1]	(3.55)	28	(2.54)	(2.95)
PCB-169	(3.77)	(3.1)	(4.87)	(10.1)	(3.16)	(3.57)
PCB-189	(3.12)	(2.86)	(3.59)	(7.82)	(3.28)	(2.49)
Total Mono-CBs	(1.7)	44.7	39.4	56.6	33.2	6.04
Total Di-CBs	6.09	622	512	908	603	190
Total Tri-CBs	(3.51)	5850	4190	9650	4670	590
Total Tetra-CBs	(2.85)	12700	6340	20800	6560	637
Total Penta-CBs	(2.28)	5300	1660	9860	1630	388
Total Hexa-CBs	(3.46)	1610	294	3010	357	204
Total Hepta-CBs	(3.41)	524	61.3	941	75.2	34.6
Total Octa-CBs	(3.98)	156	9.37	149	7.46	[5.05]
Total Nona-CBs	(6.36)	148	7.57	289	7.1	(5.6)
PCB-209	(7.08)	1680	189	3660	196	44.1
TEQs (WHO 2005 M/H)						
ND = 0; EMPC = 0	0	0.0395	0.00988	0.0748	0.0107	0.00227
ND = 0; EMPC = EMPC	0	0.0399	0.00988	0.0771	0.0109	0.00227
ND = DL/2; EMPC = 0	0.197	0.213	0.25	0.577	0.19	0.172
ND = DL/2; EMPC = EMPC	0.197	0.213	0.25	0.579	0.19	0.172
ND = DL; EMPC = 0	0.394	0.386	0.49	1.08	0.369	0.343
ND = DL; EMPC = EMPC	0.394	0.386	0.49	1.08	0.369	0.343

Checkcode

553-005-XNW

712-582-BWJ


148-327-GVV

911-445-NVG

444-564-YLD

058-314-YQZ

() = DL  
[] = EMPC

PCB Recoveries						Method 1668A	
Standard	Method Blank A6492	PB006.2-1 SWMID-140311- D (Total)	PB006.2-1 SWMID-140311- D (Dissolved)	PB006.2-1 SWMID-140311- N (Total)	PB006.2-1 SWMID-140311- N (Dissolved)	HSC14.1- 1SWMID- 140311-N (Total)	
ES PCB-1	72.4	70.1	68.7	42.7	55.6	45.9	
ES PCB-3	76.3	75.8	77.9	49.9	62.2	52.1	
ES PCB-4	84.2	82.4	83.7	51.8	65	53.2	
ES PCB-15	78.4	86.8	86.5	63.1	72	63	
ES PCB-19	86.9	86.6	93.4	55.9	70	57.2	
ES PCB-37	80.4	85	89.9	78.9	82.9	73.8	
ES PCB-54	88.2	90.9	97.1	63.6	72.4	60.1	
ES PCB-77	82.9	86.5	92.6	86.8	91.7	81.9	
ES PCB-81	81.8	85.2	94.2	83.9	88.8	78.4	
ES PCB-104	89.1	96	94.5	67.9	69.3	61.8	
ES PCB-105	92.6	94.8	101	89.1	94.6	85.7	
ES PCB-114	93.8	96.9	101	90.5	98	87.3	
ES PCB-118	94.9	99.9	108	92.9	101	88.2	
ES PCB-123	91.5	98.2	102	91.4	98	83.8	
ES PCB-126	86	87.5	91.4	82.8	90.2	82.6	
ES PCB-153	87	96.5	97.4	89.4	96.1	83.7	
ES PCB-155	82.5	90.8	89.9	77.2	76.4	65	
ES PCB-156/157	85.8	93.6	94.3	82.9	95.3	84.2	
ES PCB-167	86.9	95	98	85	97.6	86.2	
ES PCB-169	81.9	84.6	86.6	71.2	88.7	80.3	
ES PCB-170	90.5	92.7	97.5	74	94.4	82.2	
ES PCB-180	87.3	93.1	94.1	79.1	91.8	78.2	
ES PCB-188	89.2	95.8	95.4	83.8	91.3	77.6	
ES PCB-189	90.3	97.7	102	69.7	97.2	86.8	
ES PCB-202	89.8	94.4	97.4	89.5	96	83.8	
ES PCB-205	87.3	91.2	93.9	58.6	91.3	82.2	
ES PCB-206	84.2	90.3	93.9	51.5	93.2	80.1	
ES PCB-208	92.7	99.8	102	76.1	97.6	87.6	
ES PCB-209	77.8	82.2	85.8	45.7	86.7	74.6	

Checkcode

553-005-XNW

712-582-BWJ

148-327-GVV

911-445-NVG

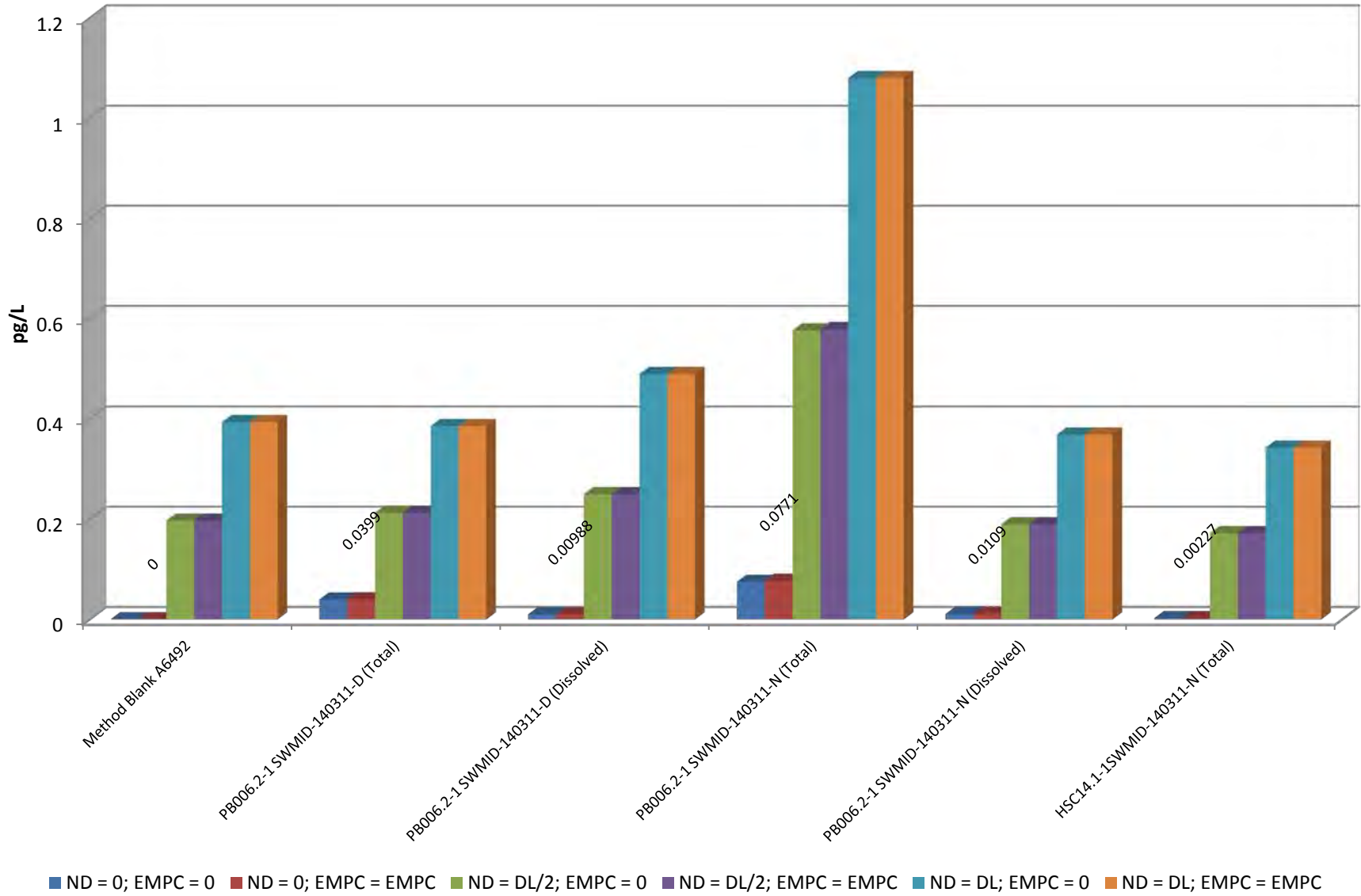
444-564-YLD

058-314-YQZ

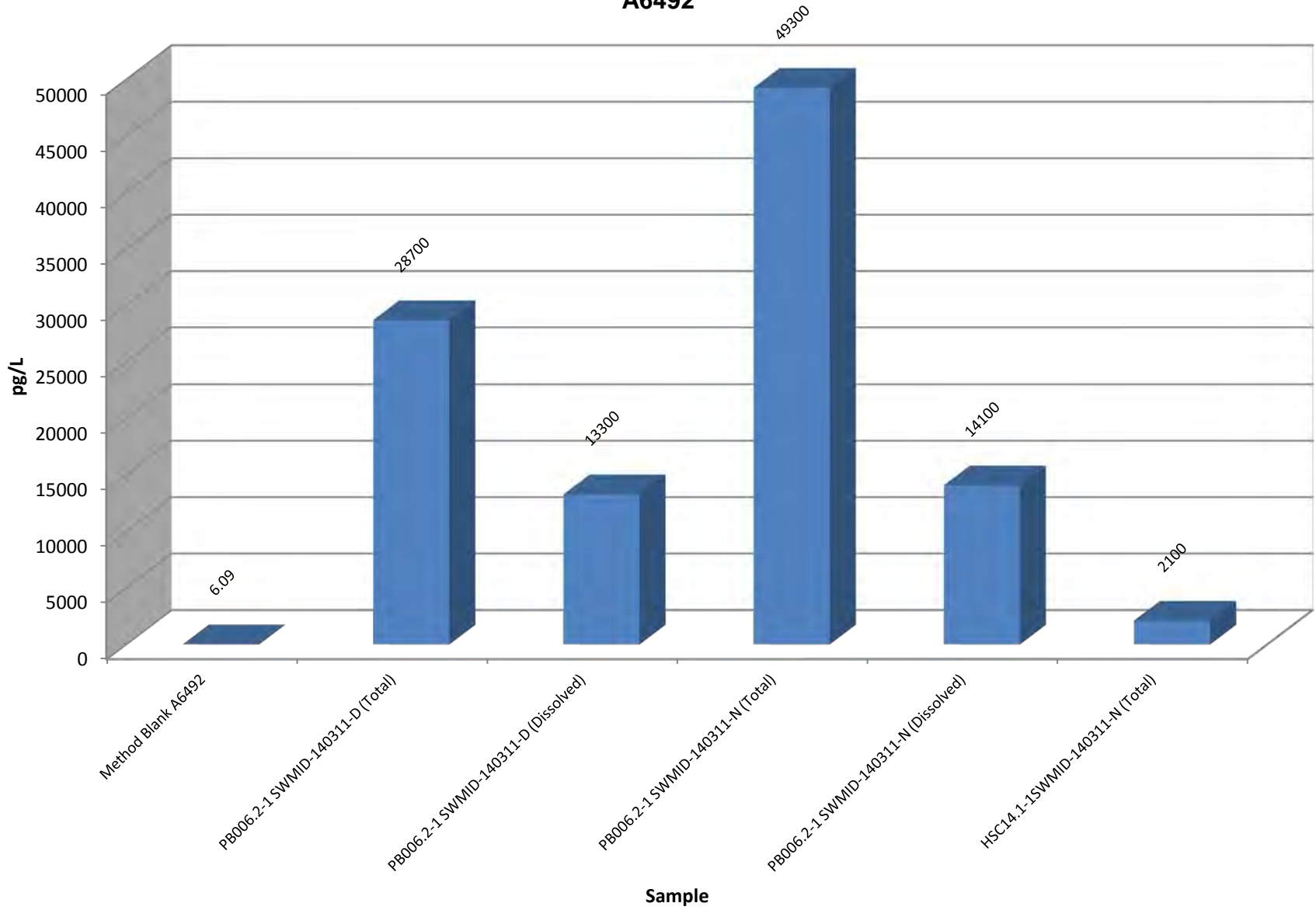
() = DL  
[] = EMPC



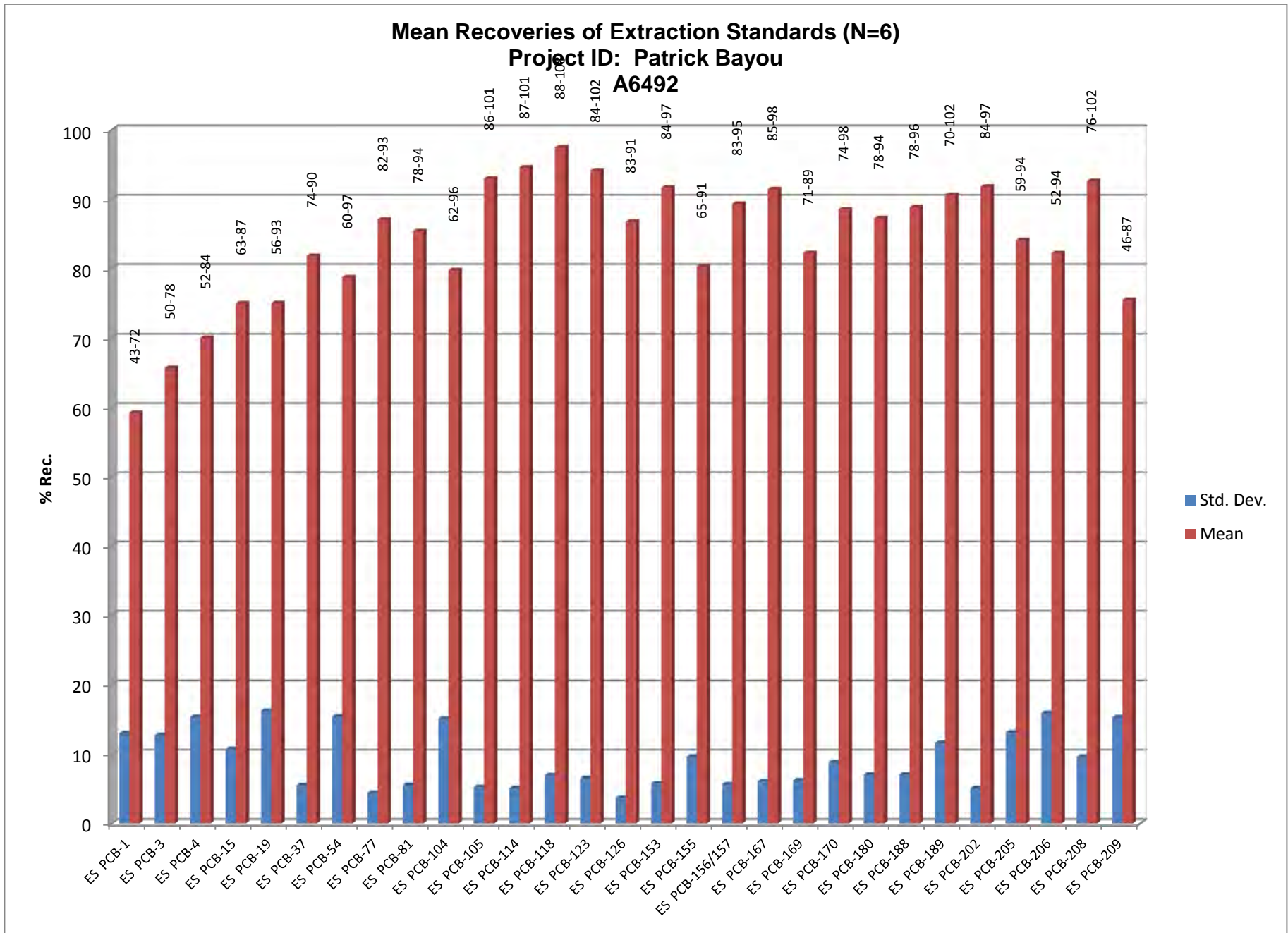
**PCB TEQ**  
**Project ID: Patrick Bayou**  
**A6492**



**PCB Totals**  
**Project ID: Patrick Bayou**  
**A6492**









**Sample ID: PB006.2-1 SWMID-140311-D (Total)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6492	Date Received:	12-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.97 L	Sample ID:	A6492_11883_PCB_001-RJ	Date Extracted:	14-Mar-2014
Date Collected:	11-Mar-2014	pH	7	QC Batch No.:	11883	Date Analyzed:	24-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	102				ES PCB-1	70.1	
PCB-81 344'5'-TeCB	ND	4.33			ES PCB-3	75.8	
PCB-105 233'44'-PeCB	308				ES PCB-4	82.4	
PCB-114 2344'5'-PeCB	16.7				ES PCB-15	86.8	
PCB-118 23'44'5'-PeCB	600				ES PCB-19	86.6	
PCB-123 23'44'5'-PeCB	14.2				ES PCB-37	85	
PCB-126 33'44'5'-PeCB	ND	2.52			ES PCB-54	90.9	
PCB-156/157 233'44'5'/233'44'5'-HxCB	37.8			C	ES PCB-77	86.5	
PCB-167 23'44'55'-HxCB	EMPC		11.1		ES PCB-81	85.2	
PCB-169 33'44'55'-HxCB	ND	3.1			ES PCB-104	96	
PCB-189 233'44'55'-HpCB	ND	2.86			ES PCB-105	94.8	
					ES PCB-114	96.9	
<b>TEQs (WHO M/H)</b>					ES PCB-118	99.9	
					ES PCB-123	98.2	
ND = 0	0.0395		0.0399		ES PCB-126	87.5	
ND = 0.5 x DL	0.213		0.213		ES PCB-153	96.5	
ND = DL	0.386		0.386		ES PCB-155	90.8	
					ES PCB-156/157	93.6	
<b>Totals</b>					ES PCB-167	95	
Mono-CBs	44.7		48.1		ES PCB-169	84.6	
Di-CBs	622				ES PCB-170	92.7	
Tri-CBs	5,850				ES PCB-180	93.1	
Tetra-CBs	12,700		12,700		ES PCB-188	95.8	
Penta-CBs	5,300		5,310		ES PCB-189	97.7	
Hexa-CBs	1,610		1,690		ES PCB-202	94.4	
Hepta-CBs	524		535		ES PCB-205	91.2	
Octa-CBs	156		176		ES PCB-206	90.3	
Nona-CBs	148				ES PCB-208	99.8	
Deca-CB	1,680				ES PCB-209	82.2	
					CS PCB-28	99.3	
Total PCB (Mono-Deca)	28,700		28,800		CS PCB-111	109	
					CS PCB-178	114	

Checkcode: 712-582-BWJ


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Report Created: 02-Apr-2014 13:06 Analyst: JJ



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USA

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Sample ID: PB006.2-1 SWMID-140311-D (Total)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6492			Date Received: 12-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.97 L			Sample ID: A6492_11883_PCB_001-RJ			Date Extracted: 14-Mar-2014								
Date Collected: 11-Mar-2014			pH: 7			QC Batch No.: 11883			Date Analyzed: 24-Mar-2014								
			Units: pg/L			Checkcode: 712-582-BWJ			Time Analyzed: 17:38:59								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	35		PCB-19	134		PCB-54	[5.6]	J EMPC	PCB-72	(3.94)							
PCB-2	[3.48]	J EMPC	PCB-30/18	1,180	C	PCB-50/53	300	C	PCB-68	(3.64)							
PCB-3	9.63	J	PCB-17	417		PCB-45	303		PCB-57	[4.63]	J EMPC						
			PCB-27	65.3		PCB-51	96.2		PCB-58	(3.95)							
<b>Conc.</b>	44.7		PCB-24	6.04	J	PCB-46	113		PCB-67	27.2							
<b>EMPC</b>	48.1		PCB-16	429		PCB-52	2,160		PCB-63	39.3							
			PCB-32	353		PCB-73	(2.76)		PCB-61/70/74/76	2,210	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	5.42	J	PCB-43	55.7		PCB-66	1,300							
PCB-4	245		PCB-23	(3.77)		PCB-69/49	1,080	C	PCB-55	[10.8]	EMPC						
PCB-10	9.49	J	PCB-26/29	170	C	PCB-48	312		PCB-56	582							
PCB-9	10.9		PCB-25	67.8		PCB-44/47/65	1,740	C	PCB-60	242							
PCB-7	4.41	J	PCB-31	1,120		PCB-59/62/75	124	C	PCB-80	(3.57)							
PCB-6	37.7		PCB-28/20	1,070	C	PCB-42	427		PCB-79	(3.58)							
PCB-5	(3.75)		PCB-21/33	376	C	PCB-41	82.9		PCB-78	(4.37)							
PCB-8	163		PCB-22	281		PCB-71/40	743	C	PCB-81	(4.33)							
PCB-14	(3.24)		PCB-36	(3.6)		PCB-64	681		PCB-77	102							
PCB-11	29.8	B	PCB-39	(3.61)													
PCB-13/12	14.5	J C	PCB-38	(3.99)													
PCB-15	108		PCB-35	(4.25)													
			PCB-37	173													
<b>Conc.</b>	622		<b>Conc.</b>	5,850					<b>Conc.</b>	12,700							
<b>EMPC</b>	622		<b>EMPC</b>	5,850					<b>EMPC</b>	12,700							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						6,520			6,520		
						Tetra-Hexa						19,600			19,700		
						Hepta-Deca						2,510			2,540		
						Mono-Deca			28,700			28,800					

Sample ID: PB006.2-1 SWMID-140311-D (Total)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(2.53)		PCB-108/119/86/97/125/87	565	C	PCB-155	(2.79)		PCB-165	(3.48)	
PCB-96	16.4		PCB-117	(3.86)		PCB-152	(3.02)		PCB-146	60.2	
PCB-103	[8.84]	J EMPC	PCB-116/85	183	C	PCB-150	(3.02)		PCB-161	(3.22)	
PCB-94	(5.1)		PCB-110	940		PCB-136	55.8		PCB-153/168	298	C
PCB-95	643		PCB-115	(3.5)		PCB-145	(3.15)		PCB-141	56.9	
PCB-100/93	16.1	J C	PCB-82	124		PCB-148	(4.06)		PCB-130	30.7	
PCB-102	43.1		PCB-111	(3.45)		PCB-151/135	113	C	PCB-137	[16.8]	EMPC
PCB-98	(5)		PCB-120	(3.47)		PCB-154	[6.98]	J EMPC	PCB-164	27.9	
PCB-88	(4.92)		PCB-107/124	25.3	C	PCB-144	[14.3]	EMPC	PCB-163/138/129	398	C
PCB-91	160		PCB-109	47.1		PCB-147/149	292	C	PCB-160	(3.44)	
PCB-84	263		PCB-123	14.2		PCB-134	[22.2]	EMPC	PCB-158	39.2	
PCB-89	20.7		PCB-106	(3.9)		PCB-143	(4.44)		PCB-128/166	56	C
PCB-121	(3.47)		PCB-118	600		PCB-139/140	9.07	J C	PCB-159	(2.63)	
PCB-92	118		PCB-122	9.52	J	PCB-131	6.77	J	PCB-162	(2.62)	
PCB-113/90/101	715	C	PCB-114	16.7		PCB-142	(4.63)		PCB-167	[11.1]	EMPC
PCB-83	36		PCB-105	308		PCB-132	125		PCB-156/157	37.8	C
PCB-99	433		PCB-127	(3.92)		PCB-133	6.63	J	PCB-169	(3.1)	
PCB-112	(3.63)		PCB-126	(2.52)							
			<b>Conc.</b>	5,300					<b>Conc.</b>	1,610	
			<b>EMPC</b>	5,310					<b>EMPC</b>	1,690	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(1.94)		PCB-174	63.5		PCB-202	[19.6]	EMPC	PCB-208	46.8	
PCB-179	34.1		PCB-177	37.8		PCB-201	9.06	J	PCB-207	39.5	
PCB-184	(2.14)		PCB-181	(4.58)		PCB-204	(2.58)		PCB-206	62.1	
PCB-176	8.95	J	PCB-171/173	18.8	J C	PCB-197	(2.3)				
PCB-186	(2.05)		PCB-172	[10.8]	EMPC	PCB-200	(2.61)		<b>Conc.</b>	148	
PCB-178	20.1		PCB-192	(4)		PCB-198/199	48	C	<b>EMPC</b>	148	
PCB-175	(4.59)		PCB-180/193	138	C	PCB-196	22.9				
PCB-187	84.5		PCB-191	(3.91)		PCB-203	30.2		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(4.25)		PCB-170	64.7		PCB-195	14.1		PCB-209	1,680	
PCB-183	40.5		PCB-190	13.4		PCB-194	32				
PCB-185	(4.42)		PCB-189	(2.86)		PCB-205	(5.09)				
			<b>Conc.</b>	524		<b>Conc.</b>	156				
			<b>EMPC</b>	535		<b>EMPC</b>	176				

**Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6492	Date Received:	12-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.96 L	Sample ID:	A6492_11883_PCB_002-RJ	Date Extracted:	14-Mar-2014
Date Collected:	11-Mar-2014	pH	7	QC Batch No.:	11883	Date Analyzed:	24-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	30				ES PCB-1	68.7	
PCB-81 344'5'-TeCB	ND	4.6			ES PCB-3	77.9	
PCB-105 233'44'-PeCB	77.4				ES PCB-4	83.7	
PCB-114 2344'5'-PeCB	ND	3.95			ES PCB-15	86.5	
PCB-118 23'44'5'-PeCB	145				ES PCB-19	93.4	
PCB-123 23'44'5'-PeCB	ND	4.09			ES PCB-37	89.9	
PCB-126 33'44'5'-PeCB	ND	3.32			ES PCB-54	97.1	
PCB-156/157 233'44'5'/233'44'5'-HxCB	6.59			J C	ES PCB-77	92.6	
PCB-167 23'44'55'-HxCB	ND	3.55			ES PCB-81	94.2	
PCB-169 33'44'55'-HxCB	ND	4.87			ES PCB-104	94.5	
PCB-189 233'44'55'-HpCB	ND	3.59			ES PCB-105	101	
					ES PCB-114	101	
<b>TEQs (WHO M/H)</b>					ES PCB-118	108	
					ES PCB-123	102	
ND = 0	0.00988		0.00988		ES PCB-126	91.4	
ND = 0.5 x DL	0.25		0.25		ES PCB-153	97.4	
ND = DL	0.49		0.49		ES PCB-155	89.9	
					ES PCB-156/157	94.3	
<b>Totals</b>					ES PCB-167	98	
Mono-CBs	39.4				ES PCB-169	86.6	
Di-CBs	512		542		ES PCB-170	97.5	
Tri-CBs	4,190				ES PCB-180	94.1	
Tetra-CBs	6,340		6,370		ES PCB-188	95.4	
Penta-CBs	1,660		1,660		ES PCB-189	102	
Hexa-CBs	294		343		ES PCB-202	97.4	
Hepta-CBs	61.3		68.3		ES PCB-205	93.9	
Octa-CBs	9.37				ES PCB-206	93.9	
Nona-CBs	7.57				ES PCB-208	102	
Deca-CB	189				ES PCB-209	85.8	
					CS PCB-28	101	
Total PCB (Mono-Deca)	13,300		13,400		CS PCB-111	112	
					CS PCB-178	114	

Checkcode: 148-327-GVW


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Report Created: 02-Apr-2014 13:06 Analyst: JJ



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USA

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Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6492			Date Received: 12-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.96 L			Sample ID: A6492_11883_PCB_002-RJ			Date Extracted: 14-Mar-2014								
Date Collected: 11-Mar-2014			pH: 7			QC Batch No.: 11883			Date Analyzed: 24-Mar-2014								
			Units: pg/L			Checkcode: 148-327-GVW			Time Analyzed: 18:38:02								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	32.8		PCB-19	117		PCB-54	(4.17)		PCB-72	(4.18)							
PCB-2	(2.91)		PCB-30/18	919	C	PCB-50/53	194	C	PCB-68	(3.87)							
PCB-3	6.62	J	PCB-17	309		PCB-45	181		PCB-57	(4.3)							
			PCB-27	50.3		PCB-51	58.9		PCB-58	(4.2)							
<b>Conc.</b>	39.4		PCB-24	5.38	J	PCB-46	68		PCB-67	9.26	J						
<b>EMPC</b>	39.4		PCB-16	327		PCB-52	1,220		PCB-63	13.9							
			PCB-32	256		PCB-73	(3.75)		PCB-61/70/74/76	948	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(4.33)		PCB-43	[31]	EMPC	PCB-66	522							
PCB-4	241		PCB-23	(4.35)		PCB-69/49	569	C	PCB-55	(4.47)							
PCB-10	8.13	J	PCB-26/29	118	C	PCB-48	173		PCB-56	231							
PCB-9	6.91	J	PCB-25	44.4		PCB-44/47/65	940	C	PCB-60	96.2							
PCB-7	(3.62)		PCB-31	773		PCB-59/62/75	67.8	C	PCB-80	(3.79)							
PCB-6	28		PCB-28/20	719	C	PCB-42	219		PCB-79	(3.81)							
PCB-5	(3.89)		PCB-21/33	254	C	PCB-41	71		PCB-78	(4.65)							
PCB-8	144		PCB-22	190		PCB-71/40	381	C	PCB-81	(4.6)							
PCB-14	(3.35)		PCB-36	(4.16)		PCB-64	351		PCB-77	30							
PCB-11	[30]	B EMPC	PCB-39	(4.17)													
PCB-13/12	(4.06)	C	PCB-38	(4.61)													
PCB-15	83.6		PCB-35	9.95	J												
			PCB-37	93.7													
<b>Conc.</b>	512		<b>Conc.</b>	4,190					<b>Conc.</b>	6,340							
<b>EMPC</b>	542		<b>EMPC</b>	4,190					<b>EMPC</b>	6,370							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						4,740			4,770		
						Tetra-Hexa						8,290			8,380		
						Hepta-Deca						268			275		
						Mono-Deca			13,300			13,400					

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(3.83)		PCB-108/119/86/97/125/87	184	C	PCB-155	(2.89)		PCB-165	(3.38)	
PCB-96	7.61	J	PCB-117	(4.25)		PCB-152	(3.12)		PCB-146	15.7	
PCB-103	(4.86)		PCB-116/85	54.4	C	PCB-150	(3.13)		PCB-161	(3.13)	
PCB-94	(5.63)		PCB-110	283		PCB-136	[13.5]	EMPC	PCB-153/168	64.4	C
PCB-95	252		PCB-115	(3.86)		PCB-145	(3.26)		PCB-141	15.6	
PCB-100/93	(5.28)	C	PCB-82	45.9		PCB-148	(3.94)		PCB-130	(4.73)	
PCB-102	16.2		PCB-111	(3.81)		PCB-151/135	[27.3]	EMPC C	PCB-137	(4.15)	
PCB-98	(5.51)		PCB-120	(3.82)		PCB-154	(3.55)		PCB-164	(3.04)	
PCB-88	(5.42)		PCB-107/124	[7.54]	J EMPC C	PCB-144	(3.95)		PCB-163/138/129	83.2	C
PCB-91	53		PCB-109	14.8		PCB-147/149	70	C	PCB-160	(3.34)	
PCB-84	102		PCB-123	(4.09)		PCB-134	(4.65)		PCB-158	9.32	J
PCB-89	(5.81)		PCB-106	(4.3)		PCB-143	(4.31)		PCB-128/166	[8.22]	J EMPC C
PCB-121	(3.82)		PCB-118	145		PCB-139/140	(3.89)	C	PCB-159	(3.66)	
PCB-92	38		PCB-122	(4.5)		PCB-131	(4.51)		PCB-162	(3.64)	
PCB-113/90/101	236	C	PCB-114	(3.95)		PCB-142	(4.49)		PCB-167	(3.55)	
PCB-83	17.6		PCB-105	77.4		PCB-132	28.8		PCB-156/157	6.59	J C
PCB-99	129		PCB-127	(4.25)		PCB-133	(4.25)		PCB-169	(4.87)	
PCB-112	(4)		PCB-126	(3.32)							
			<b>Conc.</b>	1,660					<b>Conc.</b>	294	
			<b>EMPC</b>	1,660					<b>EMPC</b>	343	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(3.02)		PCB-174	9.75	J	PCB-202	(4.03)		PCB-208	7.57	J
PCB-179	[7.06]	J EMPC	PCB-177	(5.5)		PCB-201	(3.72)		PCB-207	(5.62)	
PCB-184	(3.34)		PCB-181	(4.88)		PCB-204	(3.98)		PCB-206	(8.65)	
PCB-176	(2.97)		PCB-171/173	(5.47)	C	PCB-197	(3.55)				
PCB-186	(3.19)		PCB-172	(5.49)		PCB-200	(4.02)		<b>Conc.</b>	7.57	
PCB-178	(4.33)		PCB-192	(4.26)		PCB-198/199	9.37	J C	<b>EMPC</b>	7.57	
PCB-175	(4.88)		PCB-180/193	24.3	C	PCB-196	(5.46)				
PCB-187	15.9		PCB-191	(4.16)		PCB-203	(5.33)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(4.52)		PCB-170	11.3		PCB-195	(7.77)		PCB-209	189	
PCB-183	(4.46)		PCB-190	(4.34)		PCB-194	(7.59)				
PCB-185	(4.71)		PCB-189	(3.59)		PCB-205	(6.5)				
			<b>Conc.</b>	61.3		<b>Conc.</b>	9.37				
			<b>EMPC</b>	68.3		<b>EMPC</b>	9.37				

**Sample ID: PB006.2-1 SWMID-140311-N (Total)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6492	Date Received:	12-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.95 L	Sample ID:	A6492_11883_PCB_003-RJ	Date Extracted:	14-Mar-2014
Date Collected:	11-Mar-2014	pH	7	QC Batch No.:	11883	Date Analyzed:	24-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	196				ES PCB-1	42.7	
PCB-81 344'5'-TeCB	ND	10.2			ES PCB-3	49.9	
PCB-105 233'44'-PeCB	591				ES PCB-4	51.8	
PCB-114 2344'5'-PeCB	26.3				ES PCB-15	63.1	
PCB-118 23'44'5'-PeCB	1,170				ES PCB-19	55.9	
PCB-123 23'44'5'-PeCB	24.6				ES PCB-37	78.9	
PCB-126 33'44'5'-PeCB	ND	6.96			ES PCB-54	63.6	
PCB-156/157 233'44'5'/233'44'5'-HxCB	EMPC		78.6	C	ES PCB-77	86.8	
PCB-167 23'44'55'-HxCB	28				ES PCB-81	83.9	
PCB-169 33'44'55'-HxCB	ND	10.1			ES PCB-104	67.9	
PCB-189 233'44'55'-HpCB	ND	7.82			ES PCB-105	89.1	
					ES PCB-114	90.5	
<b>TEQs (WHO M/H)</b>					ES PCB-118	92.9	
					ES PCB-123	91.4	
ND = 0	0.0748		0.0771		ES PCB-126	82.8	
ND = 0.5 x DL	0.577		0.579		ES PCB-153	89.4	
ND = DL	1.08		1.08		ES PCB-155	77.2	
					ES PCB-156/157	82.9	
<b>Totals</b>					ES PCB-167	85	
Mono-CBs	56.6		73.2		ES PCB-169	71.2	
Di-CBs	908				ES PCB-170	74	
Tri-CBs	9,650				ES PCB-180	79.1	
Tetra-CBs	20,800		20,800		ES PCB-188	83.8	
Penta-CBs	9,860		9,910		ES PCB-189	69.7	
Hexa-CBs	3,010		3,140		ES PCB-202	89.5	
Hepta-CBs	941		1,090		ES PCB-205	58.6	
Octa-CBs	149		272		ES PCB-206	51.5	
Nona-CBs	289				ES PCB-208	76.1	
Deca-CB	3,660				ES PCB-209	45.7	
					CS PCB-28	99.9	
Total PCB (Mono-Deca)	49,300		49,800		CS PCB-111	103	
					CS PCB-178	107	

Checkcode: 911-445-NVG


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Report Created: 02-Apr-2014 13:08 Analyst: JJ



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USA

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Sample ID: PB006.2-1 SWMID-140311-N (Total)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6492			Date Received: 12-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.95 L			Sample ID: A6492_11883_PCB_003-RJ			Date Extracted: 14-Mar-2014								
Date Collected: 11-Mar-2014			pH: 7			QC Batch No.: 11883			Date Analyzed: 24-Mar-2014								
			Units: pg/L			Checkcode: 911-445-NVG			Time Analyzed: 19:37:08								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	56.6		PCB-19	219		PCB-54	[10.6]	EMPC	PCB-72	[23.9]	EMPC						
PCB-2	(6.6)		PCB-30/18	2,080	C	PCB-50/53	426	C	PCB-68	32.3							
PCB-3	[16.7]	EMPC	PCB-17	741		PCB-45	418		PCB-57	(9.53)							
			PCB-27	123		PCB-51	140		PCB-58	(9.32)							
<b>Conc.</b>	56.6		PCB-24	20.6		PCB-46	164		PCB-67	48.5							
<b>EMPC</b>	73.2		PCB-16	753		PCB-52	3,310		PCB-63	70.5							
			PCB-32	642		PCB-73	(7.92)		PCB-61/70/74/76	4,000	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(9.67)		PCB-43	86.5		PCB-66	2,340							
PCB-4	368		PCB-23	(9.72)		PCB-69/49	1,690	C	PCB-55	(9.92)							
PCB-10	(10.6)		PCB-26/29	248	C	PCB-48	486		PCB-56	1000							
PCB-9	(14.5)		PCB-25	96.8		PCB-44/47/65	2,660	C	PCB-60	428							
PCB-7	(13.1)		PCB-31	1,700		PCB-59/62/75	181	C	PCB-80	(8.41)							
PCB-6	52.4		PCB-28/20	1,660	C	PCB-42	674		PCB-79	(8.45)							
PCB-5	(14)		PCB-21/33	595	C	PCB-41	160		PCB-78	(10.3)							
PCB-8	244		PCB-22	436		PCB-71/40	1,180	C	PCB-81	(10.2)							
PCB-14	(12.1)		PCB-36	(9.29)		PCB-64	1,090		PCB-77	196							
PCB-11	45.9	B	PCB-39	(9.3)													
PCB-13/12	22.8	C	PCB-38	(10.3)													
PCB-15	175		PCB-35	27.3													
			PCB-37	308													
<b>Conc.</b>	908		<b>Conc.</b>	9,650					<b>Conc.</b>	20,800							
<b>EMPC</b>	908		<b>EMPC</b>	9,650					<b>EMPC</b>	20,800							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						10,600			10,600		
						Tetra-Hexa						33,700			33,900		
						Hepta-Deca						5,040			5,310		
						Mono-Deca			49,300			49,800					



Sample ID: PB006.2-1 SWMID-140311-N (Total)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(7.98)		PCB-108/119/86/97/125/87	1,050	C	PCB-155	(6.82)		PCB-165	(7.69)	
PCB-96	41.1		PCB-117	41.1		PCB-152	(7.36)		PCB-146	105	
PCB-103	(10.8)		PCB-116/85	303	C	PCB-150	(7.38)		PCB-161	(7.12)	
PCB-94	(12.5)		PCB-110	1,690		PCB-136	114		PCB-153/168	558	C
PCB-95	1,150		PCB-115	38.9		PCB-145	(7.69)		PCB-141	102	
PCB-100/93	(11.7)	C	PCB-82	224		PCB-148	(8.96)		PCB-130	53.8	
PCB-102	79.5		PCB-111	(8.45)		PCB-151/135	221	C	PCB-137	[19.6]	EMPC
PCB-98	(12.2)		PCB-120	(8.49)		PCB-154	(8.07)		PCB-164	49.2	
PCB-88	(12)		PCB-107/124	40	C	PCB-144	30.1		PCB-163/138/129	739	C
PCB-91	307		PCB-109	89.4		PCB-147/149	594	C	PCB-160	(7.61)	
PCB-84	499		PCB-123	24.6		PCB-134	[30.9]	EMPC	PCB-158	64.7	
PCB-89	[31.6]	EMPC	PCB-106	(9.55)		PCB-143	(9.82)		PCB-128/166	121	C
PCB-121	(8.49)		PCB-118	1,170		PCB-139/140	(8.85)	C	PCB-159	(8)	
PCB-92	228		PCB-122	[14.3]	EMPC	PCB-131	(10.3)		PCB-162	(7.97)	
PCB-113/90/101	1,370	C	PCB-114	26.3		PCB-142	(10.2)		PCB-167	28	
PCB-83	63.2		PCB-105	591		PCB-132	229		PCB-156/157	[78.6]	EMPC C
PCB-99	824		PCB-127	(10)		PCB-133	(9.67)		PCB-169	(10.1)	
PCB-112	(8.89)		PCB-126	(6.96)							
			<b>Conc.</b>	9,860					<b>Conc.</b>	3,010	
			<b>EMPC</b>	9,910					<b>EMPC</b>	3,140	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(6.93)		PCB-174	132		PCB-202	39.7		PCB-208	84.1	
PCB-179	65.3		PCB-177	91.6		PCB-201	[13.9]	EMPC	PCB-207	61	
PCB-184	(7.66)		PCB-181	(12.3)		PCB-204	(9.45)		PCB-206	144	
PCB-176	12.4		PCB-171/173	51.1	C	PCB-197	(8.43)				
PCB-186	(7.32)		PCB-172	[23.9]	EMPC	PCB-200	(9.55)		<b>Conc.</b>	289	
PCB-178	[24]	EMPC	PCB-192	(10.7)		PCB-198/199	[61.6]	EMPC C	<b>EMPC</b>	289	
PCB-175	(12.3)		PCB-180/193	279	C	PCB-196	[24.9]	EMPC			
PCB-187	173		PCB-191	(10.5)		PCB-203	37.8		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(11.4)		PCB-170	137		PCB-195	[22.9]	EMPC	PCB-209	3,660	
PCB-183	[76.1]	EMPC	PCB-190	[24.6]	EMPC	PCB-194	71.6				
PCB-185	(11.8)		PCB-189	(7.82)		PCB-205	(15.5)				
			<b>Conc.</b>	941		<b>Conc.</b>	149				
			<b>EMPC</b>	1,090		<b>EMPC</b>	272				

**Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6492	Date Received:	12-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.96 L	Sample ID:	A6492_11883_PCB_004-RJ	Date Extracted:	14-Mar-2014
Date Collected:	11-Mar-2014	pH	7	QC Batch No.:	11883	Date Analyzed:	24-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	35.1				ES PCB-1	55.6	
PCB-81 344'5'-TeCB	ND	3.33			ES PCB-3	62.2	
PCB-105 233'44'-PeCB	78.1				ES PCB-4	65	
PCB-114 2344'5'-PeCB	ND	3			ES PCB-15	72	
PCB-118 23'44'5'-PeCB	157				ES PCB-19	70	
PCB-123 23'44'5'-PeCB	4.17			J	ES PCB-37	82.9	
PCB-126 33'44'5'-PeCB	ND	2.62			ES PCB-54	72.4	
PCB-156/157 233'44'5'/233'44'5'-HxCB	EMPC		7.6	J C	ES PCB-77	91.7	
PCB-167 23'44'55'-HxCB	ND	2.54			ES PCB-81	88.8	
PCB-169 33'44'55'-HxCB	ND	3.16			ES PCB-104	69.3	
PCB-189 233'44'55'-HpCB	ND	3.28			ES PCB-105	94.6	
					ES PCB-114	98	
<b>TEQs (WHO M/H)</b>					ES PCB-118	101	
					ES PCB-123	98	
ND = 0	0.0107		0.0109		ES PCB-126	90.2	
ND = 0.5 x DL	0.19		0.19		ES PCB-153	96.1	
ND = DL	0.369		0.369		ES PCB-155	76.4	
					ES PCB-156/157	95.3	
<b>Totals</b>					ES PCB-167	97.6	
Mono-CBs	33.2				ES PCB-169	88.7	
Di-CBs	603				ES PCB-170	94.4	
Tri-CBs	4,670				ES PCB-180	91.8	
Tetra-CBs	6,560		6,570		ES PCB-188	91.3	
Penta-CBs	1,630		1,650		ES PCB-189	97.2	
Hexa-CBs	357		390		ES PCB-202	96	
Hepta-CBs	75.2		88.3		ES PCB-205	91.3	
Octa-CBs	7.46		15.3		ES PCB-206	93.2	
Nona-CBs	7.1				ES PCB-208	97.6	
Deca-CB	196				ES PCB-209	86.7	
					CS PCB-28	95.3	
Total PCB (Mono-Deca)	14,100		14,200		CS PCB-111	104	
					CS PCB-178	105	


Checkcode: 444-564-YLD

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Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6492			Date Received: 12-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.96 L			Sample ID: A6492_11883_PCB_004-RJ			Date Extracted: 14-Mar-2014								
Date Collected: 11-Mar-2014			pH: 7			QC Batch No.: 11883			Date Analyzed: 24-Mar-2014								
			Units: pg/L			Checkcode: 444-564-YLD			Time Analyzed: 20:36:12								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	33.2		PCB-19	139		PCB-54	[4.53]	J EMPC	PCB-72	(3.03)							
PCB-2	(2.79)		PCB-30/18	1,110	C	PCB-50/53	195	C	PCB-68	13.9							
PCB-3	(2.76)		PCB-17	362		PCB-45	194		PCB-57	(3.11)							
			PCB-27	64.7		PCB-51	50.8		PCB-58	(3.04)							
<b>Conc.</b>	33.2		PCB-24	7.52	J	PCB-46	68.1		PCB-67	[9.35]	J EMPC						
<b>EMPC</b>	33.2		PCB-16	398		PCB-52	1,230		PCB-63	15							
			PCB-32	312		PCB-73	(2.64)		PCB-61/70/74/76	1,010	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(4.21)		PCB-43	32.6		PCB-66	559							
PCB-4	265		PCB-23	(4.23)		PCB-69/49	567	C	PCB-55	(3.24)							
PCB-10	9.72	J	PCB-26/29	121	C	PCB-48	171		PCB-56	266							
PCB-9	9.72	J	PCB-25	44.4		PCB-44/47/65	944	C	PCB-60	104							
PCB-7	(4.32)		PCB-31	803		PCB-59/62/75	69.8	C	PCB-80	(2.75)							
PCB-6	34.2		PCB-28/20	738	C	PCB-42	223		PCB-79	(2.76)							
PCB-5	(4.64)		PCB-21/33	260	C	PCB-41	81		PCB-78	(3.37)							
PCB-8	152		PCB-22	203		PCB-71/40	379	C	PCB-81	(3.33)							
PCB-14	(4)		PCB-36	(4.05)		PCB-64	354		PCB-77	35.1							
PCB-11	34.8	B	PCB-39	(4.05)													
PCB-13/12	7.52	J C	PCB-38	(4.48)													
PCB-15	90.4		PCB-35	9.66	J												
			PCB-37	98.7													
<b>Conc.</b>	603		<b>Conc.</b>	4,670					<b>Conc.</b>	6,560							
<b>EMPC</b>	603		<b>EMPC</b>	4,670					<b>EMPC</b>	6,570							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						5,310			5,310		
						Tetra-Hexa						8,550			8,610		
						Hepta-Deca						286			307		
						Mono-Deca						14,100			14,200		

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(3.2)		PCB-108/119/86/97/125/87	177	C	PCB-155	(2.15)		PCB-165	(2.32)	
PCB-96	11		PCB-117	[5]	J EMPC	PCB-152	(2.32)		PCB-146	17.5	
PCB-103	(3.73)		PCB-116/85	47.2	C	PCB-150	(2.32)		PCB-161	(2.15)	
PCB-94	(4.32)		PCB-110	292		PCB-136	19.2		PCB-153/168	70.6	C
PCB-95	246		PCB-115	(2.96)		PCB-145	(2.42)		PCB-141	17.1	
PCB-100/93	(4.05)	C	PCB-82	35		PCB-148	(2.7)		PCB-130	11.2	
PCB-102	[9.99]	J EMPC	PCB-111	(2.92)		PCB-151/135	[25.9]	EMPC C	PCB-137	(2.84)	
PCB-98	(4.23)		PCB-120	(2.93)		PCB-154	(2.43)		PCB-164	(2.08)	
PCB-88	(4.16)		PCB-107/124	7.08	J C	PCB-144	(2.71)		PCB-163/138/129	90.6	C
PCB-91	48.6		PCB-109	12.5		PCB-147/149	74.2	C	PCB-160	(2.29)	
PCB-84	101		PCB-123	4.17	J	PCB-134	(3.19)		PCB-158	11.2	
PCB-89	(4.46)		PCB-106	(3.3)		PCB-143	(2.96)		PCB-128/166	13.2	J C
PCB-121	(2.93)		PCB-118	157		PCB-139/140	(2.66)	C	PCB-159	(2.62)	
PCB-92	38.9		PCB-122	(3.42)		PCB-131	(3.09)		PCB-162	(2.61)	
PCB-113/90/101	234	C	PCB-114	(3)		PCB-142	(3.08)		PCB-167	(2.54)	
PCB-83	14.9		PCB-105	78.1		PCB-132	31.8		PCB-156/157	[7.6]	J EMPC C
PCB-99	128		PCB-127	(3.39)		PCB-133	(2.91)		PCB-169	(3.16)	
PCB-112	(3.07)		PCB-126	(2.62)							
			<b>Conc.</b>	1,630					<b>Conc.</b>	357	
			<b>EMPC</b>	1,650					<b>EMPC</b>	390	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(2.14)		PCB-174	12.1		PCB-202	(3.16)		PCB-208	7.1	J
PCB-179	10.6		PCB-177	[7.94]	J EMPC	PCB-201	(2.91)		PCB-207	(4.72)	
PCB-184	(2.36)		PCB-181	(4.24)		PCB-204	(3.12)		PCB-206	(7.2)	
PCB-176	(2.11)		PCB-171/173	(4.76)	C	PCB-197	(2.78)				
PCB-186	(2.26)		PCB-172	(4.77)		PCB-200	(3.15)		<b>Conc.</b>	7.1	
PCB-178	(3.07)		PCB-192	(3.7)		PCB-198/199	[7.87]	J EMPC C	<b>EMPC</b>	7.1	
PCB-175	(4.24)		PCB-180/193	24.2	C	PCB-196	(4.28)				
PCB-187	16.5		PCB-191	(3.61)		PCB-203	(4.18)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(3.92)		PCB-170	11.8		PCB-195	(5.05)		PCB-209	196	
PCB-183	[5.13]	J EMPC	PCB-190	(3.46)		PCB-194	7.46	J			
PCB-185	(4.09)		PCB-189	(3.28)		PCB-205	(4.22)				
			<b>Conc.</b>	75.2		<b>Conc.</b>	7.46				
			<b>EMPC</b>	88.3		<b>EMPC</b>	15.3				

**Sample ID: HSC14.1-1SWMID-140311-N (Total)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6492	Date Received:	12-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.96 L	Sample ID:	A6492_11883_PCB_005-RJ	Date Extracted:	14-Mar-2014
Date Collected:	11-Mar-2014	pH	7	QC Batch No.:	11883	Date Analyzed:	24-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L				%
PCB-77 33'44'-TeCB	3.38			J	ES PCB-1		45.9
PCB-81 344'5'-TeCB	ND	2.77			ES PCB-3		52.1
PCB-105 233'44'-PeCB	15.9				ES PCB-4		53.2
PCB-114 2344'5'-PeCB	ND	2.74			ES PCB-15		63
PCB-118 23'44'5'-PeCB	42.7				ES PCB-19		57.2
PCB-123 23'44'5'-PeCB	ND	2.98			ES PCB-37		73.8
PCB-126 33'44'5'-PeCB	ND	2.32			ES PCB-54		60.1
PCB-156/157 233'44'5'/233'44'5'-HxCB	5.72			J C	ES PCB-77		81.9
PCB-167 23'44'55'-HxCB	ND	2.95			ES PCB-81		78.4
PCB-169 33'44'55'-HxCB	ND	3.57			ES PCB-104		61.8
PCB-189 233'44'55'-HpCB	ND	2.49			ES PCB-105		85.7
					ES PCB-114		87.3
<b>TEQs (WHO M/H)</b>					ES PCB-118		88.2
					ES PCB-123		83.8
ND = 0	0.00227			0.00227	ES PCB-126		82.6
ND = 0.5 x DL	0.172			0.172	ES PCB-153		83.7
ND = DL	0.343			0.343	ES PCB-155		65
					ES PCB-156/157		84.2
<b>Totals</b>					ES PCB-167		86.2
Mono-CBs	6.04				ES PCB-169		80.3
Di-CBs	190				ES PCB-170		82.2
Tri-CBs	590				ES PCB-180		78.2
Tetra-CBs	637			645	ES PCB-188		77.6
Penta-CBs	388			392	ES PCB-189		86.8
Hexa-CBs	204			224	ES PCB-202		83.8
Hepta-CBs	34.6			66.1	ES PCB-205		82.2
Octa-CBs				5.05	ES PCB-206		80.1
Nona-CBs	ND	5.6			ES PCB-208		87.6
Deca-CB	44.1				ES PCB-209		74.6
					CS PCB-28		89.1
Total PCB (Mono-Deca)	2,090			2,160	CS PCB-111		99.1
					CS PCB-178		95.5

Checkcode: 058-314-YQZ


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Report Created: 02-Apr-2014 13:09 Analyst: JJ



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USA

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Sample ID: HSC14.1-1SWMID-140311-N (Total)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6492			Date Received: 12-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.96 L			Sample ID: A6492_11883_PCB_005-RJ			Date Extracted: 14-Mar-2014								
Date Collected: 11-Mar-2014			pH: 7			QC Batch No.: 11883			Date Analyzed: 24-Mar-2014								
			Units: pg/L			Checkcode: 058-314-YQZ			Time Analyzed: 21:35:17								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	6.04	J	PCB-19	47.5		PCB-54	[3.15]	J EMPC	PCB-72	(2.52)							
PCB-2	(2.07)		PCB-30/18	110	C	PCB-50/53	19.5	J C	PCB-68	20.7							
PCB-3	(2.04)		PCB-17	55.9		PCB-45	12.7		PCB-57	(2.58)							
			PCB-27	12.1		PCB-51	21.7		PCB-58	(2.53)							
<b>Conc.</b>	6.04		PCB-24	(3.33)		PCB-46	6.24	J	PCB-67	(2.44)							
<b>EMPC</b>	6.04		PCB-16	54.2		PCB-52	113		PCB-63	(2.31)							
			PCB-32	48.6		PCB-73	(2.41)		PCB-61/70/74/76	87.1	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(2.94)		PCB-43	(4.14)		PCB-66	51							
PCB-4	98.6		PCB-23	(2.95)		PCB-69/49	60	C	PCB-55	(2.69)							
PCB-10	(4.73)		PCB-26/29	15.9	J C	PCB-48	12.7		PCB-56	24.1							
PCB-9	(4.4)		PCB-25	12.5		PCB-44/47/65	104	C	PCB-60	[4.9]	J EMPC						
PCB-7	(3.96)		PCB-31	76.7		PCB-59/62/75	6.96	J C	PCB-80	(2.28)							
PCB-6	(4.23)		PCB-28/20	96.2	C	PCB-42	23.5		PCB-79	(2.29)							
PCB-5	(4.25)		PCB-21/33	17.6	J C	PCB-41	(4.06)		PCB-78	(2.8)							
PCB-8	20.5		PCB-22	27.1		PCB-71/40	38.5	C	PCB-81	(2.77)							
PCB-14	(3.66)		PCB-36	(2.82)		PCB-64	31.5		PCB-77	3.38	J						
PCB-11	23.3	B	PCB-39	(2.83)													
PCB-13/12	(4.45)	C	PCB-38	(3.13)													
PCB-15	47.2		PCB-35	(3.33)													
			PCB-37	15.8													
<b>Conc.</b>	190		<b>Conc.</b>	590					<b>Conc.</b>	637							
<b>EMPC</b>	190		<b>EMPC</b>	590					<b>EMPC</b>	645							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						786			786		
						Tetra-Hexa						1,230			1,260		
						Hepta-Deca						78.8			115		
						Mono-Deca			2,090			2,160					

Sample ID: HSC14.1-1SWMID-140311-N (Total)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(2.72)		PCB-108/119/86/97/125/87	38.9	J C	PCB-155	(2.12)		PCB-165	(2.25)	
PCB-96	(3.09)		PCB-117	(3.1)		PCB-152	(2.29)		PCB-146	8.22	J
PCB-103	(3.55)		PCB-116/85	10.5	J C	PCB-150	(2.29)		PCB-161	(2.09)	
PCB-94	(4.1)		PCB-110	71.9		PCB-136	10.4		PCB-153/168	42.4	C
PCB-95	55.5		PCB-115	(2.82)		PCB-145	(2.39)		PCB-141	8.49	J
PCB-100/93	(3.85)	C	PCB-82	9.41	J	PCB-148	(2.63)		PCB-130	3.49	J
PCB-102	(3.47)		PCB-111	(2.78)		PCB-151/135	18.5	J C	PCB-137	(2.76)	
PCB-98	(4.02)		PCB-120	(2.79)		PCB-154	(2.36)		PCB-164	[3.17]	J EMPC
PCB-88	(3.95)		PCB-107/124	(3.03)	C	PCB-144	(2.63)		PCB-163/138/129	51.5	C
PCB-91	13		PCB-109	[4.03]	J EMPC	PCB-147/149	45.7	C	PCB-160	(2.23)	
PCB-84	20.8		PCB-123	(2.98)		PCB-134	(3.1)		PCB-158	[3.03]	J EMPC
PCB-89	(4.24)		PCB-106	(3.13)		PCB-143	(2.88)		PCB-128/166	9.46	J C
PCB-121	(2.79)		PCB-118	42.7		PCB-139/140	(2.59)	C	PCB-159	(3.04)	
PCB-92	14.1		PCB-122	(3.13)		PCB-131	(3.01)		PCB-162	(3.03)	
PCB-113/90/101	62.7	C	PCB-114	(2.74)		PCB-142	(2.99)		PCB-167	(2.95)	
PCB-83	(4.9)		PCB-105	15.9		PCB-132	[14]	EMPC	PCB-156/157	5.72	J C
PCB-99	32.6		PCB-127	(2.98)		PCB-133	(2.83)		PCB-169	(3.57)	
PCB-112	(2.92)		PCB-126	(2.32)							
			<b>Conc.</b>	388					<b>Conc.</b>	204	
			<b>EMPC</b>	392					<b>EMPC</b>	224	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(1.91)		PCB-174	[10.6]	EMPC	PCB-202	(2.74)		PCB-208	(4.37)	
PCB-179	[4.26]	J EMPC	PCB-177	[4.95]	J EMPC	PCB-201	(2.53)		PCB-207	(4.21)	
PCB-184	(2.11)		PCB-181	(3.85)		PCB-204	(2.71)		PCB-206	(6.84)	
PCB-176	(1.88)		PCB-171/173	(4.32)	C	PCB-197	(2.42)				
PCB-186	(2.02)		PCB-172	(4.33)		PCB-200	(2.74)		<b>Conc.</b>	0	
PCB-178	(2.74)		PCB-192	(3.36)		PCB-198/199	[5.05]	J EMPC C	<b>EMPC</b>	0	
PCB-175	(3.85)		PCB-180/193	20.8	C	PCB-196	(3.72)				
PCB-187	13.8		PCB-191	(3.28)		PCB-203	(3.63)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(3.57)		PCB-170	[7.4]	J EMPC	PCB-195	(5.38)		PCB-209	44.1	
PCB-183	[4.27]	J EMPC	PCB-190	(3.08)		PCB-194	(5.25)				
PCB-185	(3.72)		PCB-189	(2.49)		PCB-205	(4.49)				
			<b>Conc.</b>	34.6		<b>Conc.</b>	0				
			<b>EMPC</b>	66.1		<b>EMPC</b>	5.05				

**Sample ID: Method Blank A6492****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6492	Date Received:	n/a
Project ID:	Patrick Bayou	Weight/Volume:	1.00 L	Sample ID:	MB1_11883_PCB_TLX-RJ	Date Extracted:	14-Mar-2014
Date Collected:	n/a	pH	n/a	QC Batch No.:	11883	Date Analyzed:	24-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	2.89			ES PCB-1	72.4	
PCB-81 344'5'-TeCB	ND	2.89			ES PCB-3	76.3	
PCB-105 233'44'-PeCB	ND	2.31			ES PCB-4	84.2	
PCB-114 2344'5'-PeCB	ND	2.08			ES PCB-15	78.4	
PCB-118 23'44'5'-PeCB	ND	2.2			ES PCB-19	86.9	
PCB-123 23'44'5'-PeCB	ND	2.24			ES PCB-37	80.4	
PCB-126 33'44'5'-PeCB	ND	2.79			ES PCB-54	88.2	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	4.73		C	ES PCB-77	82.9	
PCB-167 23'44'55'-HxCB	ND	3.35			ES PCB-81	81.8	
PCB-169 33'44'55'-HxCB	ND	3.77			ES PCB-104	89.1	
PCB-189 233'44'55'-HpCB	ND	3.12			ES PCB-105	92.6	
					ES PCB-114	93.8	
<b>TEQs (WHO M/H)</b>					ES PCB-118	94.9	
					ES PCB-123	91.5	
ND = 0	0		0		ES PCB-126	86	
ND = 0.5 x DL	0.197		0.197		ES PCB-153	87	
ND = DL	0.394		0.394		ES PCB-155	82.5	
					ES PCB-156/157	85.8	
<b>Totals</b>					ES PCB-167	86.9	
Mono-CBs	ND	1.7			ES PCB-169	81.9	
Di-CBs	6.09				ES PCB-170	90.5	
Tri-CBs	ND	3.51			ES PCB-180	87.3	
Tetra-CBs	ND	2.85			ES PCB-188	89.2	
Penta-CBs	ND	2.28			ES PCB-189	90.3	
Hexa-CBs	ND	3.46			ES PCB-202	89.8	
Hepta-CBs	ND	3.41			ES PCB-205	87.3	
Octa-CBs	ND	3.98			ES PCB-206	84.2	
Nona-CBs	ND	6.36			ES PCB-208	92.7	
Deca-CB	ND	7.08			ES PCB-209	77.8	
					CS PCB-28	89.9	
Total PCB (Mono-Deca)	6.09		6.09		CS PCB-111	102	
					CS PCB-178	106	

Checkcode: 553-005-XNW

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Sample ID: Method Blank A6492						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6492			Date Received: n/a								
Project ID: Patrick Bayou			Weight/Volume: 1.00 L			Sample ID: MB1_11883_PCB_TLX-RJ			Date Extracted: 14-Mar-2014								
Date Collected: n/a			pH: n/a			QC Batch No.: 11883			Date Analyzed: 24-Mar-2014								
			Units: pg/L			Checkcode: 553-005-XNW			Time Analyzed: 16:41:39								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(1.55)		PCB-19	(3.9)		PCB-54	(2.49)		PCB-72	(2.63)							
PCB-2	(1.88)		PCB-30/18	(3.05)	C	PCB-50/53	(2.91)	C	PCB-68	(2.43)							
PCB-3	(1.86)		PCB-17	(3.57)		PCB-45	(3.34)		PCB-57	(2.7)							
			PCB-27	(2.64)		PCB-51	(2.92)		PCB-58	(2.64)							
<b>Conc.</b>	0		PCB-24	(2.69)		PCB-46	(3.54)		PCB-67	(2.55)							
<b>EMPC</b>	0		PCB-16	(5.02)		PCB-52	(3.09)		PCB-63	(2.41)							
			PCB-32	(2.46)		PCB-73	(2.22)		PCB-61/70/74/76	(2.63)	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(2.87)		PCB-43	(3.81)		PCB-66	(2.73)							
PCB-4	(3.76)		PCB-23	(2.88)		PCB-69/49	(2.52)	C	PCB-55	(2.81)							
PCB-10	(2.32)		PCB-26/29	(2.82)	C	PCB-48	(3.05)		PCB-56	(2.85)							
PCB-9	(4.11)		PCB-25	(2.86)		PCB-44/47/65	(2.84)	C	PCB-60	(2.79)							
PCB-7	(3.7)		PCB-31	(2.72)		PCB-59/62/75	(2.21)	C	PCB-80	(2.39)							
PCB-6	(3.95)		PCB-28/20	(2.92)	C	PCB-42	(3.39)		PCB-79	(2.4)							
PCB-5	(3.97)		PCB-21/33	(2.81)	C	PCB-41	(3.73)		PCB-78	(2.92)							
PCB-8	(3.92)		PCB-22	(3.03)		PCB-71/40	(2.97)	C	PCB-81	(2.89)							
PCB-14	(3.42)		PCB-36	(2.76)		PCB-64	(2.09)		PCB-77	(2.89)							
PCB-11	6.09	J	PCB-39	(2.76)													
PCB-13/12	(4.15)	C	PCB-38	(3.06)													
PCB-15	(4.03)		PCB-35	(3.25)													
			PCB-37	(3.12)													
<b>Conc.</b>	6.09		<b>Conc.</b>	0					<b>Conc.</b>	0							
<b>EMPC</b>	6.09		<b>EMPC</b>	0					<b>EMPC</b>	0							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						6.09			6.09		
						Tetra-Hexa						0			0		
						Hepta-Deca						0			0		
						Mono-Deca						6.09			6.09		

Sample ID: Method Blank A6492						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(2.07)		PCB-108/119/86/97/125/87	(2.54)	C	PCB-155	(1.99)		PCB-165	(2.49)	
PCB-96	(2.35)		PCB-117	(2.33)		PCB-152	(2.15)		PCB-146	(2.86)	
PCB-103	(2.67)		PCB-116/85	(2.51)	C	PCB-150	(2.15)		PCB-161	(2.31)	
PCB-94	(3.09)		PCB-110	(2.38)		PCB-136	(2.31)		PCB-153/168	(2.43)	C
PCB-95	(2.87)		PCB-115	(2.12)		PCB-145	(2.24)		PCB-141	(3.05)	
PCB-100/93	(2.89)	C	PCB-82	(3.53)		PCB-148	(2.9)		PCB-130	(3.49)	
PCB-102	(2.61)		PCB-111	(2.09)		PCB-151/135	(2.99)	C	PCB-137	(3.06)	
PCB-98	(3.02)		PCB-120	(2.1)		PCB-154	(2.62)		PCB-164	(2.24)	
PCB-88	(2.97)		PCB-107/124	(2.28)	C	PCB-144	(2.91)		PCB-163/138/129	(2.87)	C
PCB-91	(2.72)		PCB-109	(2.2)		PCB-147/149	(2.9)	C	PCB-160	(2.47)	
PCB-84	(3.38)		PCB-123	(2.24)		PCB-134	(3.43)		PCB-158	(2.25)	
PCB-89	(3.19)		PCB-106	(2.36)		PCB-143	(3.18)		PCB-128/166	(4.05)	C
PCB-121	(2.1)		PCB-118	(2.2)		PCB-139/140	(2.87)	C	PCB-159	(3.46)	
PCB-92	(3.05)		PCB-122	(2.37)		PCB-131	(3.33)		PCB-162	(3.45)	
PCB-113/90/101	(2.59)	C	PCB-114	(2.08)		PCB-142	(3.31)		PCB-167	(3.35)	
PCB-83	(3.68)		PCB-105	(2.31)		PCB-132	(3.26)		PCB-156/157	(4.73)	C
PCB-99	(2.58)		PCB-127	(2.26)		PCB-133	(3.13)		PCB-169	(3.77)	
PCB-112	(2.19)		PCB-126	(2.79)							
			<b>Conc.</b>	0					<b>Conc.</b>	0	
			<b>EMPC</b>	0					<b>EMPC</b>	0	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(2.03)		PCB-174	(4.53)		PCB-202	(3.23)		PCB-208	(4.72)	
PCB-179	(2.16)		PCB-177	(4.52)		PCB-201	(2.98)		PCB-207	(4.55)	
PCB-184	(2.25)		PCB-181	(4)		PCB-204	(3.19)		PCB-206	(8.01)	
PCB-176	(2)		PCB-171/173	(4.49)	C	PCB-197	(2.85)				
PCB-186	(2.15)		PCB-172	(4.5)		PCB-200	(3.23)		<b>Conc.</b>	0	
PCB-178	(2.92)		PCB-192	(3.49)		PCB-198/199	(4.5)	C	<b>EMPC</b>	0	
PCB-175	(4)		PCB-180/193	(3.72)	C	PCB-196	(4.38)				
PCB-187	(3.79)		PCB-191	(3.41)		PCB-203	(4.28)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(3.71)		PCB-170	(4.53)		PCB-195	(5.65)		PCB-209	(7.08)	
PCB-183	(3.66)		PCB-190	(3.39)		PCB-194	(5.52)				
PCB-185	(3.86)		PCB-189	(3.12)		PCB-205	(4.72)				
			<b>Conc.</b>	0		<b>Conc.</b>	0				
			<b>EMPC</b>	0		<b>EMPC</b>	0				

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM4\_PCB\_10292013\_05FEB2014  
 Instrument ID: MM4 GC Column ID:  
 VER Data Filename: 140324S05 Analysis Date: 24-MAR-2014 14:44:33  
 Lab ID: OPR1\_11883\_PCB-RJ

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	99.7	50 - 150	Y
PCB-3 4-MoCB	50	99.7	50 - 150	Y
PCB-4 22'-DiCB	50	103	50 - 150	Y
PCB-15 44'-DiCB	50	99.3	50 - 150	Y
PCB-19 22'6'-TrCB	50	99.2	50 - 150	Y
PCB-37 344'-TrCB	50	101	50 - 150	Y
PCB-54 22'66'-TeCB	50	99.3	50 - 150	Y
PCB-77 33'44'-TeCB	50	102	50 - 150	Y
PCB-81 344'5'-TeCB	50	107	50 - 150	Y
PCB-104 22'466'-PeCB	50	99.7	50 - 150	Y
PCB-105 233'44'-PeCB	50	102	50 - 150	Y
PCB-114 2344'5'-PeCB	50	102	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	99.9	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	103	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	100	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	101	50 - 150	Y
PCB-156/157 ...-HxCB	100	101	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	104	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	101	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	104	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	104	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	107	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	106	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	103	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	106	50 - 150	Y
PCB-209 DeCB	50	103	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 02 Apr 2014 13:02 Analyst: JJ

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM4\_PCB\_10292013\_05FEB2014  
 Instrument ID: MM4 GC Column ID:  
 VER Data Filename: 140324S05 Analysis Date: 24-MAR-2014 14:44:33  
 Lab ID: OPR1\_11883\_PCB-RJ

LABELED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	98.8	15	-	140	Y
ES PCB-3	100	94	15	-	140	Y
ES PCB-4	100	104	30	-	140	Y
ES PCB-15	100	87	30	-	140	Y
ES PCB-19	100	102	30	-	140	Y
ES PCB-37	100	86.9	30	-	140	Y
ES PCB-54	100	102	30	-	140	Y
ES PCB-77	100	91	30	-	140	Y
ES PCB-81	100	87.1	30	-	140	Y
ES PCB-104	100	97.4	30	-	140	Y
ES PCB-105	100	93.8	30	-	140	Y
ES PCB-114	100	95.4	30	-	140	Y
ES PCB-118	100	98	30	-	140	Y
ES PCB-123	100	95.7	30	-	140	Y
ES PCB-126	100	86.2	30	-	140	Y
ES PCB-153	100	91.5	30	-	140	Y
ES PCB-155	100	86.7	30	-	140	Y
ES PCB-156/157	200	90	30	-	140	Y
ES PCB-167	100	87	30	-	140	Y
ES PCB-169	100	83.5	30	-	140	Y
ES PCB-170	100	92.5	30	-	140	Y
ES PCB-180	100	90.1	30	-	140	Y
ES PCB-188	100	93.1	30	-	140	Y
ES PCB-189	100	94.4	30	-	140	Y
ES PCB-202	100	88.7	30	-	140	Y
ES PCB-205	100	88.9	30	-	140	Y
ES PCB-206	100	87.6	30	-	140	Y
ES PCB-208	100	95.8	30	-	140	Y
ES PCB-209	100	78.6	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	92.1	40	-	125	Y
CS PCB-111	100	102	40	-	125	Y
CS PCB-178	100	105	40	-	125	Y

Processed: 02 Apr 2014 13:02 Analyst: JJ



# Sample Receipt Notification

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 12-Mar-14 at 09:40  
**AP Project name:** A6492  
**Requested TAT:** 21 days  
**Projected due date:** 2-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB006.2-1 SWMID-140311-D (Total)	A6492_001	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
PB006.2-1 SWMID-140311-D (Dissolved)	A6492_002	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
PB006.2-1 SWMID-140311-N (Total)	A6492_003	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
PB006.2-1 SWMID-140311-N (Dissolved)	A6492_004	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
HSC14.1-1SWMID-140311-N (Total)	A6492_005	WS	2	1L Amber	11-Mar-14	12:11	3.4, 2.2	1, 2	867316309120, 867316309130

**Preservation Type:** Ice - Good Condition+Ice - **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact  
 Dissolved samples need to be lab filtered before extraction. See Amy for questions

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Christina Newkirk      Logged in by: Christina Newkirk

QC'ed by: AK 12 Mar 14



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6492

**PROJECT INFO:**

PROJECT: *Patrick Bayou*

PO. #:

QUOTE #:

SITE REF: *040284-01.08*

TURN AROUND TIME: *Standard*

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:

EDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Anchor QEA, LLC*

CONTACT: *Delaney Peterson*

ADDRESS: *720 Olive Way, Ste 1900, Seattle WA 98101*

PHONE: *206-903-3396*

EMAIL: *dpeterson@anchorqea.com*

**INVOICE TO:** ( CHECK IF SAME)

COMPANY: *PNL*

CONTACT: *Bob Piniarski*

ADDRESS:

PHONE: *919-964-9126*

EMAIL: *bobp@projectnavigator.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

**PRESERVATIVE**

None	None	HCl	None	None					
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**ANALYSIS & METHOD**

PEB* Cong.	PEB Cong.	STOC	DOC**	TSS					
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\*Filter prior to analysis  
 \*\*Filter prior to preservation analysis

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	PEB* Cong.	PEB Cong.	STOC	DOC**	TSS	REMARKS
				MS	MSD	DUP									
	<i>PB006.2-15WMID-140311-D</i>	<i>3/11/14</i>	<i>1303</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
	<del><i>PB006.2-15WMID-140311-D</i></del>	<del><i>3/11/14</i></del>	<del><i>1303</i></del>												
	<del><i>PB006.2-15WMID-140311-D</i></del>														
	<i>PB006.2-15WMID-140311-N</i>	<i>3/11/14</i>	<i>1303</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
	<del><i>PI</i></del>		<del><i>1211</i></del>												
	<i>HSC14.1-15WMID-140311-N</i>	<i>3/11/14</i>	<i>1211</i>				<i>G</i>	<i>WS</i>	<i>5</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>		

COLLECTED/RELINQUISHED BY (1): <i>Jason Kase</i>	DATE: <i>3/11/14</i>	TIME: <i>1650</i>	RECEIVED BY: <i>FedEx</i>	RECEIVED BY LABORATORY: <i>Barbara Hager</i>	DATE: <i>12-mar-14</i>	TIME: <i>0940</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C <i>3.4°, 2.2°</i>	CARRIER: <i>FedEx</i>
				TRACKING #:	NOTES:	

**SGS**

## Project Initiation Form

Project Number: A6492Initiation Date: 12-Mar-14Client Name: ANCHOR QEASample Matrix: AqueousAnalysis Method: 1668ATAT: 21 daysProject Manager: Amy

### Special Instructions

1668A w/ OPR  
Dissolved samples need to be filtered before extraction

### Reporting Instructions

1668A w/ OPR  
Anchor Equis EDD

PM Initials: akornega Date: 12-Mar-2014

TRANS: ON 3/18/14  
 RECEIVED: MB 18-MAR-2014

SGS ANALYTICAL PERSPECTIVES		1668A		Mini Acid 3/17/14 ON		Water				
Project #	A6492	Batch #	11883	Extract Init/Date:	MC 3/14/14	ASECS Init/Date:	3/14/14 EECP 3/17/14	Transfer Init/Date:	NA 3/17/14	
AP Sample ID	Client Sample ID	Volume (mL)	Talex #	SDS #	RV		(Td)	Clean-up	Observations	
					#	Initials				
A6492_11883_001	PB006.2-1 SWMID-140311-D (Total)	970	9	-	2	YB	-	ON	yellowish, cloudy	
A6492_11883_002	PB006.2-1 SWMID-140311-D (Dissolved)	957	10	-	1	YB	-	ON	yellowish	
A6492_11883_003	PB006.2-1 SWMID-140311-N (Total)	954	11	-	4	YB	-	ON	yellowish, cloudy	
A6492_11883_004	PB006.2-1 SWMID-140311-N (Dissolved)	959	12	-	3	YB	-	ON	yellowish	
A6492_11883_005	HSC14.1-1 SWMID-140311-N (Total)	921	13	-	2	YB	-	ON	yellowish, cloudy	
MB1_11883	Method Blank	1000	7	-	4	YB	-	ON	Talex DI H <sub>2</sub> O 03122014	
OPR1_11883	0_11883_OPR001	1000	8	-	3	YB	-	ON	Talex DI H <sub>2</sub> O 03122014	
					3/17/2014		3/17/14			
<b>Special Instructions:</b>					<b>Cycle Time</b>			<b>Supply IDs</b>		
1668A w/ OPR Dissolved samples need to be filtered before extraction					Start: 11:10 am			Toluene — Acid Silica 03142014		
					Stop: +2:40 pm EECP 3/14/14			CH <sub>2</sub> Cl <sub>2</sub> — Base Silica —		
					Start:			Sand — HydroMatrix —		
					Stop:			Florisol — Tetradecane —		
								Hexane DJ686 NASSON H <sub>2</sub> SO <sub>4</sub> 02252014		
								Silica — K Silicate —		



SGS



1668A

Aqueous


Project # A6492 Batch # 11883

## Inter-Department Communication Sheet

discarded glasswool from condenser. used new glasswool  
to filter sample through. 3/14/14 ba

Sample 003; approximately 1/2 sample loss during transfer  
3/18/14 CW

Samples 002 and 004 were filtered using 0.7  $\mu$ m filter prior to  
extraction. -MK 4/2/14


 4/2/14

## Special Instructions

1668A w/ OPR

Dissolved samples need to be filtered before extraction



		1668A	Water				
Project #		A6492		Batch #		11883	
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
Spiker Initials/Date: <i>NA 3/14/14</i> <i>NA 3/14/14</i> <i>NA 3/17/14</i> <i>NA 3/17/14</i>							
AP Sample ID	Client Sample ID	PCB ES	PCB 209 Ax	PCB CS	PCB JS		
		Amount: <i>20 µL</i>	Amount: <i>20 µL</i>	Amount: <i>20 µL</i>	Amount: <i>10 µL</i>		
		Observer Initials	Observer Initials	Observer Initials	Observer Initials		
A6492_11883_001	PB006.2-1 SWMID-140311-D (Total)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6492_11883_002	PB006.2-1 SWMID-140311-D (Dissolved)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6492_11883_003	PB006.2-1 SWMID-140311-N (Total)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6492_11883_004	PB006.2-1 SWMID-140311-N (Dissolved)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6492_11883_005	HSC14.1-1SWMID-140311-N (Total)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
MB1_11883	Method Blank	<i>MK</i>	-	<i>a</i>	<i>a</i>		
OPR1_11883	0_11883_OPR001	<i>MK</i>	<i>MK</i>	<i>a</i>	<i>a</i>		
		<i>3/14/14</i>	<i>3/14/14</i>	<i>3/17/14</i>	<i>3/17/14</i>		
Standard Information							
Std. Type		PCB ES	PCB 209 Ax	PCB CS/SS	PCB JS		
Spike ID		<i>10292013B</i>	<i>10292013</i>	<i>10292013B</i>	<i>10292013A</i>		
SIL #		<i>13-96-1</i>	<i>13-78-1</i>	<i>13-96-2</i>	<i>13-78-4</i>		
Concentration		100	50	100	200		
Units		pg/µL	pg/µL	pg/µL	pg/µL		
Exp. Date		<i>12/12/14</i>	<i>10/29/14</i>	<i>12-19-14</i>	<i>10/29/14</i>		
Spike amount (µL)		20	20	20	10		

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 12-Mar-14 at 09:40  
**AP Project name:** A6492  
**Requested TAT:** 21 days  
**Projected due date:** 2-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB006.2-1 SWMID-140311-D (Total)	A6492_001	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
PB006.2-1 SWMID-140311-D (Dissolved)	A6492_002	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
PB006.2-1 SWMID-140311-N (Total)	A6492_003	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
PB006.2-1 SWMID-140311-N (Dissolved)	A6492_004	WS	2	1L Amber	11-Mar-14	13:03	3.4, 2.2	1, 2	867316309120, 867316309130
HSC14.1-1SWMID-140311-N (Total)	A6492_005	WS	2	1L Amber	11-Mar-14	12:11	3.4, 2.2	1, 2	867316309120, 867316309130

**Preservation Type:** Ice - Good Condition+Ice - **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact  
 Dissolved samples need to be lab filtered before extraction. See Amy for questions

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6492

**PROJECT INFO:**

PROJECT: *Patrick Bayou*

PO. #:

QUOTE #:

SITE REF: *040284-01.08*

TURN AROUND TIME: *Standard*

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:

EDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Anchor QEA, LLC*

CONTACT: *Delaney Peterson*

ADDRESS: *720 Olive Way, Ste 1900, Seattle WA 98101*

PHONE: *206-903-3396*

EMAIL: *dpeterson@anchorqea.com*

**INVOICE TO:** ( CHECK IF SAME)

COMPANY: *PNL*

CONTACT: *Bob Piniowski*

ADDRESS:

PHONE: *919-964-9126*

EMAIL: *bobp@projectnavigator.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE					REMARKS
None	None	HCl	None	None	
					*Filter prior to analysis **Filter prior to preservation analysis
ANALYSIS & METHOD					
PCB Cong.	PCB Cong.	STOC	DOC **	TSS	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY
				MS	MSD	DUP			
	<i>PB006.2-15wm10-140311-D</i>	<i>3/11/14</i>	<i>1303</i>				<i>G</i>	<i>WS</i>	<i>9</i>
	<del><i>PB006.2-15wm10-140311-D</i></del>	<del><i>3/11/14</i></del>	<del><i>1303</i></del>						
	<del><i>PB006.2-15wm10-140311-D</i></del>								
	<i>PB006.2-15wm10-140311-N</i>	<i>3/11/14</i>	<i>1303</i>				<i>G</i>	<i>WS</i>	<i>9</i>
	<del><i>PI</i></del>		<del><i>1211</i></del>						
	<i>HSC14.1-15wm10-140311-N</i>	<i>3/11/14</i>	<i>1211</i>				<i>G</i>	<i>WS</i>	<i>5</i>

COLLECTED/RELINQUISHED BY (1): <i>Jason Kay</i>	DATE: <i>3/11/14</i>	TIME: <i>1650</i>	RECEIVED BY: <i>FedEx</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:

RECEIVED BY LABORATORY: <i>Barbara Hager</i>	DATE: <i>12-mar-14</i>	TIME: <i>0940</i>
COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		
SAMPLE RECEIPT TEMP: °C <i>3.4, 2.2</i>		
CARRIER: <i>Fedex</i>	TRACKING #:	
NOTES:		

## SGS Analytical Perspectives — Run Log

Project: A6492\_11883\_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90\_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
4	140324S04	13	CS3_140324_PCB_SA	1.00	SIL 13-79-3	CTW, JLJ	377-614	24-Mar-2014	13:40:36
5	140324S05	49	OPR1_11883_PCB-RJ	1.00	0_11883_OPR001	CTW, JLJ	059-730	24-Mar-2014	14:44:33
6	140324S06	12	SBS_140324_PCB_SC	1.00	SIL 13-42-1	CTW, JLJ	377-788	24-Mar-2014	15:40:49
7	140324S07	50	MB1_11883_PCB_TLX-RJ	1.00	Method Blank	CTW, JLJ	553-005	24-Mar-2014	16:41:39
8	140324S08	51	A6492_11883_PCB_001-RJ	0.97	PB006.2-1 SWMID-140311-D (Total)	CTW, JLJ	712-582	24-Mar-2014	17:38:59
9	140324S09	52	A6492_11883_PCB_002-RJ	0.96	PB006.2-1 SWMID-140311-D (Dissolved)	CTW, JLJ	148-327	24-Mar-2014	18:38:02
10	140324S10	53	A6492_11883_PCB_003-RJ	0.95	PB006.2-1 SWMID-140311-N (Total)	CTW, JLJ	911-445	24-Mar-2014	19:37:08
11	140324S11	54	A6492_11883_PCB_004-RJ	0.96	PB006.2-1 SWMID-140311-N (Dissolved)	CTW, JLJ	444-564	24-Mar-2014	20:36:12
12	140324S12	55	A6492_11883_PCB_005-RJ	0.96	HSC14.1-1SWMID-140311-N (Total)	CTW, JLJ	058-314	24-Mar-2014	21:35:17
13	140324S13	12	SBS_140324_PCB_SD	1.00	SIL 13-42-1	CTW, JLJ	120-721	24-Mar-2014	22:34:22

Lab ID: MB1\_11883\_PCB\_TLX-RJ

ACQ: 24-Mar-2014 16:41:39 CTW

Wt/Vol: 1.00 L

ICAL: MM4\_PCB\_10292013\_05FEB2014 CS3\_140324\_PCB\_SA

Client ID: Method Blank A6492

UTP: 02-Apr-2014 11:32 JLJ

J-level: 10 pg/L Split: 1

Checkcode: 553-005-XNW

Datafile: 140324S07

RPT: 02-Apr-2014 13:03 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00	1.36		ND	2.75E+03	2.89
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00	1.32		ND	2.75E+03	2.89
PCB-105 233'44'-PeCB	NotFnd		1.0007	-		0.00E+00	1.03		ND	1.52E+03	2.31
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00	1.13		ND	1.52E+03	2.08
PCB-118 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00	1.13		ND	1.52E+03	2.2
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00	1.11		ND	1.52E+03	2.24
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00	1.33		ND	2.11E+03	2.79
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00	1.09		ND	2.18E+03	4.73
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00	1.15		ND	2.18E+03	3.35
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00	1.10		ND	2.18E+03	3.77
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00	1.21		ND	2.14E+03	3.12
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00	1.07		ND	2.30E+03	7.08
ES PCB-1	12.02		0.7239	0.7239	0	1.91E+07	3.22	1.05	72.4 %	15%	150%
ES PCB-3	14.34		0.8639	0.8639	0	1.85E+07	3.25	0.97	76.3 %	15%	150%
ES PCB-4	14.60		0.8794	0.8793	-0.1	1.39E+07	1.54	0.66	84.2 %	25%	150%
ES PCB-15	20.37		1.2270	1.2274	+0.5	2.13E+07	1.63	1.09	78.4 %	25%	150%
ES PCB-19	17.72		1.0673	1.0674	+0.1	1.19E+07	1.04	0.55	86.9 %	25%	150%
ES PCB-37	26.75		1.0786	1.0787	+0.2	1.71E+07	1.07	1.44	80.4 %	25%	150%
ES PCB-54	20.66		0.8332	0.8331	-0.1	1.85E+07	0.78	1.42	88.2 %	25%	150%
ES PCB-77	33.12		1.3353	1.3355	+0.4	1.54E+07	0.84	1.26	82.9 %	25%	150%
ES PCB-81	32.64		1.3159	1.3162	+0.6	1.53E+07	0.82	1.27	81.8 %	25%	150%
ES PCB-104	25.67		0.8329	0.8328	-0.2	1.67E+07	1.57	1.56	89.1 %	25%	150%
ES PCB-105	36.12		1.1713	1.1716	+0.7	1.38E+07	1.59	1.23	92.6 %	25%	150%
ES PCB-114	35.57		1.1536	1.1538	+0.4	1.36E+07	1.60	1.20	93.8 %	25%	150%
ES PCB-118	35.11		1.1385	1.1387	+0.4	1.30E+07	1.60	1.13	94.9 %	25%	150%
ES PCB-123	34.82		1.1294	1.1295	+0.2	1.29E+07	1.61	1.16	91.5 %	25%	150%
ES PCB-126	38.74		1.2564	1.2567	+0.7	1.27E+07	1.63	1.22	86 %	25%	150%
ES PCB-153	36.70		0.9717	0.9717	0	1.17E+07	1.29	1.10	87 %	25%	150%
ES PCB-155	30.66		0.8119	0.8118	-0.2	1.61E+07	1.26	1.60	82.5 %	25%	150%
ES PCB-156/157	41.30		1.0935	1.0936	+0.2	2.38E+07	1.25	1.14	85.8 %	25%	150%
ES PCB-167	40.31		1.0673	1.0674	+0.2	1.24E+07	1.30	1.17	86.9 %	25%	150%
ES PCB-169	44.03		1.1656	1.1658	+0.5	1.10E+07	1.26	1.11	81.9 %	25%	150%
ES PCB-170	43.54		0.9084	0.9084	0	9.15E+06	1.05	1.18	90.5 %	25%	150%
ES PCB-180	42.47		0.8861	0.8860	-0.3	1.05E+07	1.10	1.44	87.3 %	25%	150%
ES PCB-188	35.56		0.7421	0.7420	-0.2	1.65E+07	1.05	1.52	89.2 %	25%	150%
ES PCB-189	46.16		0.9631	0.9631	0	1.22E+07	1.10	1.80	90.3 %	25%	150%
ES PCB-202	40.12		0.8372	0.8371	-0.2	1.52E+07	0.91	1.39	89.8 %	25%	150%
ES PCB-205	48.33		1.0084	1.0084	0	8.25E+06	0.88	1.26	87.3 %	25%	150%
ES PCB-206	49.81		1.0391	1.0392	+0.3	6.29E+06	0.78	1.00	84.2 %	25%	150%
ES PCB-208	45.77		0.9550	0.9550	0	9.58E+06	0.77	1.38	92.7 %	25%	150%
ES PCB-209	51.29		1.0701	1.0701	0	7.36E+06	1.20	1.26	77.8 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.17		0.9341	0.9341	0	2.10E+07	1.10	1.10	112 %	30%	135%
SS PCB-111	33.13		1.0747	1.0748	+0.2	1.48E+07	1.57	1.03	112 %	30%	135%
SS PCB-178	38.14		1.0099	1.0099	0	1.22E+07	1.10	0.62	119 %	30%	135%
CS PCB-28	23.17		0.9341	0.9341	0	2.10E+07	1.10	1.59	89.9 %	30%	135%
CS PCB-111	33.13		1.0747	1.0748	+0.2	1.48E+07	1.57	1.20	102 %	30%	135%
CS PCB-178	38.14		1.0099	1.0099	0	1.22E+07	1.10	0.94	106 %	30%	135%

JS PCB-9	16.60					2.50E+07	1.66				
JS PCB-52	24.80					1.47E+07	0.78				
JS PCB-101	30.83					1.21E+07	1.59				
JS PCB-138	37.77					1.22E+07	1.31				
JS PCB-194	47.93					7.50E+06	0.92				

	Totals	NON-EMPC	EMPC	DL
	Mono-CBs	0	0	1.7
	Di-CBs	6.09	6.09	3.9
	Tri-CBs	0	0	3.51
	Tetra-CBs	0	0	2.85
	Penta-CBs	0	0	2.28
	Hexa-CBs	0	0	3.46
	Hepta-CBs	0	0	3.41
	Octa-CBs	0	0	3.98
	Nona-CBs	0	0	6.36

PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00	1.21	ND	2.72E+03	1.55	
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00	1.28	ND	2.72E+03	1.88	
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00	1.30	ND	2.72E+03	1.86	
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00	0.98	ND	3.19E+03	3.76	
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00	1.59	ND	3.19E+03	2.32	
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00	1.16	ND	5.00E+03	4.11	
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00	1.29	ND	5.00E+03	3.7	
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00	1.21	ND	5.00E+03	3.95	
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00	1.20	ND	5.00E+03	3.97	
PCB-8 24'-DiCB	NotFnd		1.0506	-		0.00E+00	1.22	ND	5.00E+03	3.92	
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00	1.40	ND	5.00E+03	3.42	
PCB-11 33'-DiCB	19.81	J	0.9722	0.9721	-0.1	7.60E+04	SI	1.17	6.09	5.00E+03	4.09
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9867	-		0.00E+00	1.15	ND	5.00E+03	4.15	
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00	1.19	ND	5.00E+03	4.03	
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00	1.05	ND	2.51E+03	3.9	
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1013	-		0.00E+00	1.34	ND	2.51E+03	3.05	
PCB-17 22'4-TrCB	NotFnd		1.1242	-		0.00E+00	1.15	ND	2.51E+03	3.57	
PCB-27 23'6-TrCB	NotFnd		1.1352	-		0.00E+00	1.55	ND	2.51E+03	2.64	
PCB-24 236-TrCB	NotFnd		1.1429	-		0.00E+00	1.52	ND	2.51E+03	2.69	
PCB-16 22'3-TrCB	NotFnd		1.1485	-		0.00E+00	0.82	ND	2.51E+03	5.02	



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1756	-		0.00E+00		1.67	ND	2.51E+03	2.46
PCB-34 23'5'-TrCB	NotFnd		0.8222	-		0.00E+00		1.44	ND	3.27E+03	2.87
PCB-23 235-TrCB	NotFnd		0.8278	-		0.00E+00		1.44	ND	3.27E+03	2.88
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8386	-		0.00E+00		1.47	ND	3.27E+03	2.82
PCB-25 23'4-TrCB	NotFnd		0.8461	-		0.00E+00		1.45	ND	3.27E+03	2.86
PCB-31 24'5-TrCB	NotFnd		0.8565	-		0.00E+00		1.52	ND	3.27E+03	2.72
PCB-28/20 244'/233'-TrCB	NotFnd	C	0.8673	-		0.00E+00		1.42	ND	3.27E+03	2.92
PCB-21/33 234/23'4'-TrCB	NotFnd	C	0.8741	-		0.00E+00		1.47	ND	3.27E+03	2.81
PCB-22 234'-TrCB	NotFnd		0.8882	-		0.00E+00		1.36	ND	3.27E+03	3.03
PCB-36 33'5-TrCB	NotFnd		0.9402	-		0.00E+00		1.50	ND	3.27E+03	2.76
PCB-39 34'5-TrCB	NotFnd		0.9523	-		0.00E+00		1.50	ND	3.27E+03	2.76
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.36	ND	3.27E+03	3.06
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.27	ND	3.27E+03	3.25
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.32	ND	3.27E+03	3.12
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.02	ND	2.32E+03	2.49
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9147	-		0.00E+00		0.94	ND	1.97E+03	2.91
PCB-45 22'36-TeCB	NotFnd		0.9385	-		0.00E+00		0.82	ND	1.97E+03	3.34
PCB-51 22'46'-TeCB	NotFnd		0.9415	-		0.00E+00		0.93	ND	1.97E+03	2.92
PCB-46 22'36'-TeCB	NotFnd		0.9501	-		0.00E+00		0.77	ND	1.97E+03	3.54
PCB-52 22'55'-TeCB	NotFnd		1.0009	-		0.00E+00		0.88	ND	1.97E+03	3.09
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	1.97E+03	2.22
PCB-43 22'35-TeCB	NotFnd		1.0101	-		0.00E+00		0.72	ND	1.97E+03	3.81
PCB-69/49 23'46/22'45'-TeCB	NotFnd	C	1.0180	-		0.00E+00		1.08	ND	1.97E+03	2.52
PCB-48 22'45-TeCB	NotFnd		1.0294	-		0.00E+00		0.89	ND	1.97E+03	3.05
PCB-44/47/65 ...-TeCB	NotFnd	C	1.0382	-		0.00E+00		0.96	ND	1.97E+03	2.84
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0494	-		0.00E+00		1.23	ND	1.97E+03	2.21
PCB-42 22'34'-TeCB	NotFnd		1.0562	-		0.00E+00		0.80	ND	1.97E+03	3.39
PCB-41 22'34-TeCB	NotFnd		1.0697	-		0.00E+00		0.73	ND	1.97E+03	3.73
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0736	-		0.00E+00		0.92	ND	1.97E+03	2.97
PCB-64 234'6-TeCB	NotFnd		1.0816	-		0.00E+00		1.31	ND	1.97E+03	2.09
PCB-72 23'55'-TeCB	NotFnd		0.8441	-		0.00E+00		1.45	ND	2.75E+03	2.63
PCB-68 23'45'-TeCB	NotFnd		0.8519	-		0.00E+00		1.56	ND	2.75E+03	2.43
PCB-57 233'5-TeCB	NotFnd		0.8634	-		0.00E+00		1.41	ND	2.75E+03	2.7
PCB-58 233'5'-TeCB	NotFnd		0.8697	-		0.00E+00		1.44	ND	2.75E+03	2.64
PCB-67 23'45-TeCB	NotFnd		0.8745	-		0.00E+00		1.49	ND	2.75E+03	2.55
PCB-63 234'5-TeCB	NotFnd		0.8815	-		0.00E+00		1.58	ND	2.75E+03	2.41
PCB-61/70/74/76 ...-TeCB	NotFnd	C	0.8904	-		0.00E+00		1.45	ND	2.75E+03	2.63
PCB-66 23'44'-TeCB	NotFnd		0.8991	-		0.00E+00		1.39	ND	2.75E+03	2.73
PCB-55 233'4-TeCB	NotFnd		0.9037	-		0.00E+00		1.35	ND	2.75E+03	2.81
PCB-56 233'4'-TeCB	NotFnd		0.9172	-		0.00E+00		1.34	ND	2.75E+03	2.85
PCB-60 2344'-TeCB	NotFnd		0.9231	-		0.00E+00		1.36	ND	2.75E+03	2.79
PCB-80 33'55'-TeCB	NotFnd		0.9331	-		0.00E+00		1.60	ND	2.75E+03	2.39
PCB-79 33'45'-TeCB	NotFnd		0.9739	-		0.00E+00		1.59	ND	2.75E+03	2.4
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.30	ND	2.75E+03	2.92
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.02	ND	1.63E+03	2.07
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		0.90	ND	1.63E+03	2.35
PCB-103 22'45'6-PeCB	NotFnd		0.8992	-		0.00E+00		0.94	ND	1.52E+03	2.67
PCB-94 22'356'-PeCB	NotFnd		0.9054	-		0.00E+00		0.81	ND	1.52E+03	3.09

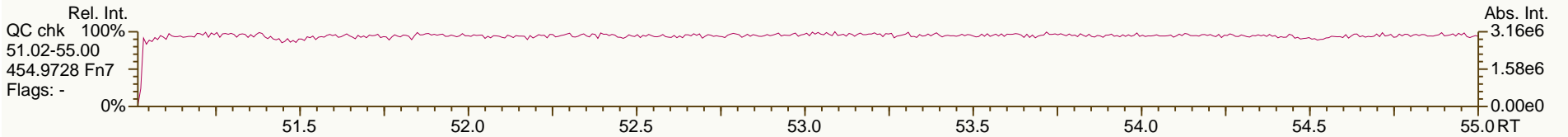
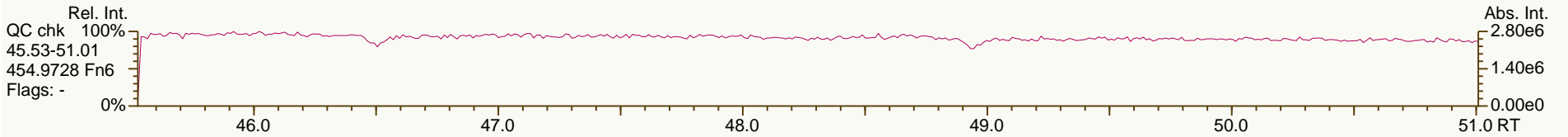
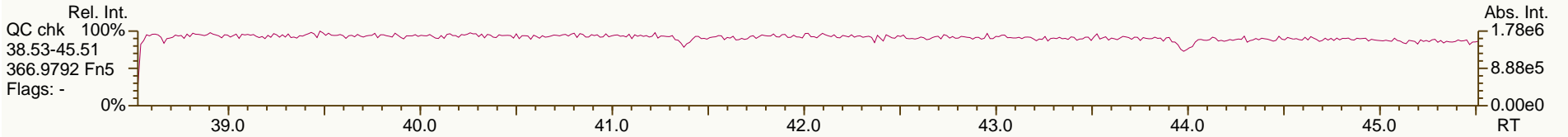
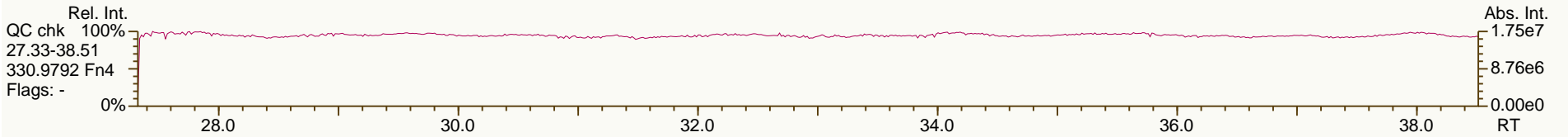
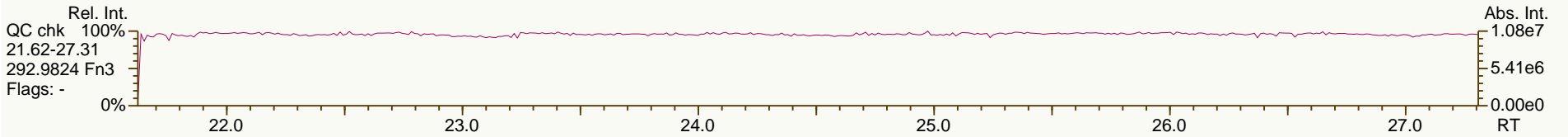
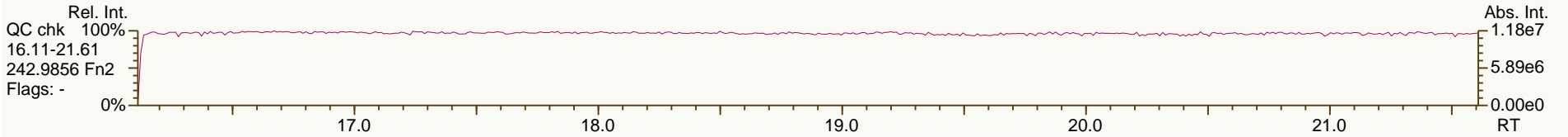
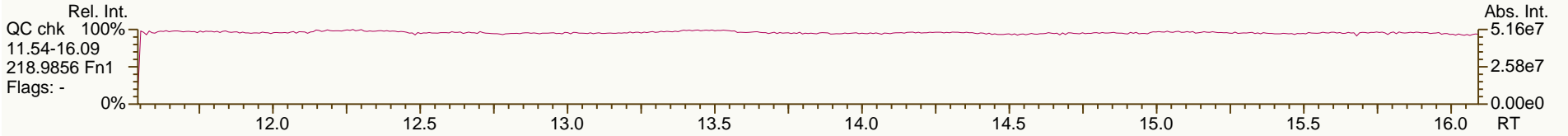
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PCB-95 22'35'6-PeCB	NotFnd		0.9179	-		0.00E+00		0.87	ND	1.52E+03	2.87
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9247	-		0.00E+00		0.86	ND	1.52E+03	2.89
PCB-102 22'456'-PeCB	NotFnd		0.9283	-		0.00E+00		0.96	ND	1.52E+03	2.61
PCB-98 22'34'6'-PeCB	NotFnd		0.9307	-		0.00E+00		0.83	ND	1.52E+03	3.02
PCB-88 22'346-PeCB	NotFnd		0.9405	-		0.00E+00		0.84	ND	1.52E+03	2.97
PCB-91 22'34'6-PeCB	NotFnd		0.9426	-		0.00E+00		0.92	ND	1.52E+03	2.72
PCB-84 22'33'6-PeCB	NotFnd		0.9490	-		0.00E+00		0.74	ND	1.52E+03	3.38
PCB-89 22'346'-PeCB	NotFnd		0.9626	-		0.00E+00		0.78	ND	1.52E+03	3.19
PCB-121 23'45'6-PeCB	NotFnd		0.9737	-		0.00E+00		1.19	ND	1.52E+03	2.1
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.82	ND	1.52E+03	3.05
PCB-113/90/101 ...-PeCB	NotFnd	C	0.9999	-		0.00E+00		0.96	ND	1.52E+03	2.59
PCB-83 22'33'5-PeCB	NotFnd		1.0141	-		0.00E+00		0.68	ND	1.52E+03	3.68
PCB-99 22'44'5-PeCB	NotFnd		1.0172	-		0.00E+00		0.97	ND	1.52E+03	2.58
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.14	ND	1.52E+03	2.19
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0319	-		0.00E+00		0.98	ND	1.52E+03	2.54
PCB-117 234'56-PeCB	NotFnd		1.0492	-		0.00E+00		1.07	ND	1.52E+03	2.33
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0522	-		0.00E+00		0.99	ND	1.52E+03	2.51
PCB-110 233'4'6-PeCB	NotFnd		1.0560	-		0.00E+00		1.05	ND	1.52E+03	2.38
PCB-115 2344'6-PeCB	NotFnd		1.0588	-		0.00E+00		1.18	ND	1.52E+03	2.12
PCB-82 22'33'4-PeCB	NotFnd		1.0653	-		0.00E+00		0.71	ND	1.52E+03	3.53
PCB-111 233'55'-PeCB	NotFnd		1.0754	-		0.00E+00		1.20	ND	1.52E+03	2.09
PCB-120 23'455'-PeCB	NotFnd		1.0884	-		0.00E+00		1.19	ND	1.52E+03	2.1
PCB-107/124 ...-PeCB	NotFnd	C	0.9916	-		0.00E+00		1.09	ND	1.52E+03	2.28
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.14	ND	1.52E+03	2.2
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.06	ND	1.52E+03	2.36
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		0.99	ND	1.52E+03	2.37
PCB-127 33'455'-PeCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.52E+03	2.26
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.74E+03	1.99
PCB-152 22'3566'-HxCB	NotFnd		1.0061	-		0.00E+00		1.02	ND	1.74E+03	2.15
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.02	ND	1.74E+03	2.15
PCB-136 22'33'66'-HxCB	NotFnd		1.0208	-		0.00E+00		0.95	ND	1.74E+03	2.31
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		0.98	ND	1.74E+03	2.24
PCB-148 22'34'56'-HxCB	NotFnd		1.0713	-		0.00E+00		1.05	ND	1.74E+03	2.9
PCB-151/135 ...-HxCB	NotFnd	C	1.0884	-		0.00E+00		1.02	ND	1.74E+03	2.99
PCB-154 22'44'56'-HxCB	NotFnd		1.0952	-		0.00E+00		1.17	ND	1.74E+03	2.62
PCB-144 22'345'6-HxCB	NotFnd		1.1038	-		0.00E+00		1.05	ND	1.74E+03	2.91
PCB-147/149 ...-HxCB	NotFnd	C	1.1137	-		0.00E+00		1.05	ND	1.74E+03	2.9
PCB-134 22'33'56-HxCB	NotFnd		1.1196	-		0.00E+00		0.89	ND	1.74E+03	3.43
PCB-143 22'3456'-HxCB	NotFnd		1.1222	-		0.00E+00		0.96	ND	1.74E+03	3.18
PCB-139/140 ...-HxCB	NotFnd	C	1.1308	-		0.00E+00		1.06	ND	1.74E+03	2.87
PCB-131 22'33'46-HxCB	NotFnd		1.1365	-		0.00E+00		0.92	ND	1.74E+03	3.33
PCB-142 22'3456-HxCB	NotFnd		1.1412	-		0.00E+00		0.92	ND	1.74E+03	3.31
PCB-132 22'33'46'-HxCB	NotFnd		1.1489	-		0.00E+00		0.93	ND	1.74E+03	3.26
PCB-133 22'33'55'-HxCB	NotFnd		1.1621	-		0.00E+00		0.97	ND	1.74E+03	3.13
PCB-165 233'55'6-HxCB	NotFnd		0.9526	-		0.00E+00		1.22	ND	1.74E+03	2.49
PCB-146 22'34'55'-HxCB	NotFnd		0.9583	-		0.00E+00		1.07	ND	1.74E+03	2.86
PCB-161 233'45'6-HxCB	NotFnd		0.9615	-		0.00E+00		1.32	ND	1.74E+03	2.31
PCB-153/168 ...-HxCB	NotFnd	C	0.9729	-		0.00E+00		1.26	ND	1.74E+03	2.43

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9767	-		0.00E+00		1.00	ND	1.74E+03	3.05
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.88	ND	1.74E+03	3.49
PCB-137 22'344'5-HxCB	NotFnd		0.9911	-		0.00E+00		1.00	ND	1.74E+03	3.06
PCB-164 233'4'5'6-HxCB	NotFnd		0.9933	-		0.00E+00		1.36	ND	1.74E+03	2.24
PCB-163/138/129 ...-HxCB	NotFnd	C	1.0011	-		0.00E+00		1.06	ND	1.74E+03	2.87
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.24	ND	1.74E+03	2.47
PCB-158 233'44'6-HxCB	NotFnd		1.0096	-		0.00E+00		1.36	ND	1.74E+03	2.25
PCB-128/166 ...-HxCB	NotFnd	C	0.9642	-		0.00E+00		0.95	ND	2.18E+03	4.05
PCB-159 233'455'-HxCB	NotFnd		0.9845	-		0.00E+00		1.12	ND	2.18E+03	3.46
PCB-162 233'4'55'-HxCB	NotFnd		0.9904	-		0.00E+00		1.12	ND	2.18E+03	3.45
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.10	ND	1.72E+03	2.03
PCB-179 22'33'566'-HpCB	NotFnd		1.0087	-		0.00E+00		1.03	ND	1.72E+03	2.16
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		0.99	ND	1.72E+03	2.25
PCB-176 22'33'466'-HpCB	NotFnd		1.0299	-		0.00E+00		1.12	ND	1.72E+03	2
PCB-186 22'34566'-HpCB	NotFnd		1.0412	-		0.00E+00		1.04	ND	1.72E+03	2.15
PCB-178 22'33'55'6-HpCB	NotFnd		1.0730	-		0.00E+00		0.77	ND	1.72E+03	2.92
PCB-175 22'33'45'6-HpCB	NotFnd		1.0884	-		0.00E+00		1.04	ND	2.12E+03	4
PCB-187 22'34'55'6-HpCB	NotFnd		1.0948	-		0.00E+00		1.10	ND	2.12E+03	3.79
PCB-182 22'344'56'-HpCB	NotFnd		1.0999	-		0.00E+00		1.13	ND	2.12E+03	3.71
PCB-183 22'344'5'6-HpCB	NotFnd		1.1096	-		0.00E+00		1.14	ND	2.12E+03	3.66
PCB-185 22'3455'6-HpCB	NotFnd		1.1121	-		0.00E+00		1.08	ND	2.12E+03	3.86
PCB-174 22'33'456'-HpCB	NotFnd		1.1152	-		0.00E+00		0.92	ND	2.12E+03	4.53
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1257	-		0.00E+00		0.93	ND	2.12E+03	4.52
PCB-181 22'344'56-HpCB	NotFnd		1.1355	-		0.00E+00		1.05	ND	2.12E+03	4
PCB-171/173 ...-HpCB	NotFnd	C	1.1407	-		0.00E+00		0.93	ND	2.12E+03	4.49
PCB-172 22'33'455'-HpCB	NotFnd		0.9083	-		0.00E+00		0.93	ND	2.12E+03	4.5
PCB-192 233'455'6-HpCB	NotFnd		0.9137	-		0.00E+00		1.20	ND	2.12E+03	3.49
PCB-180/193 ...-HpCB	NotFnd	C	0.9197	-		0.00E+00		1.13	ND	2.12E+03	3.72
PCB-191 233'44'5'6-HpCB	NotFnd		0.9269	-		0.00E+00		1.23	ND	2.12E+03	3.41
PCB-170 22'33'44'5-HpCB	NotFnd		0.9437	-		0.00E+00		1.06	ND	2.12E+03	4.53
PCB-190 233'44'56-HpCB	NotFnd		0.9535	-		0.00E+00		1.42	ND	2.12E+03	3.39
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		0.83	ND	1.98E+03	3.23
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0202	-		0.00E+00		0.90	ND	1.98E+03	2.98
PCB-204 22'344'566'-OcCB	NotFnd		1.0346	-		0.00E+00		0.84	ND	1.98E+03	3.19
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0394	-		0.00E+00		0.94	ND	1.98E+03	2.85
PCB-200 22'33'4566'-OcCB	NotFnd		1.0417	-		0.00E+00		0.83	ND	1.98E+03	3.23
PCB-198/199 ...-OcCB	NotFnd	C	1.0997	-		0.00E+00		0.59	ND	1.98E+03	4.5
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1141	-		0.00E+00		0.61	ND	1.98E+03	4.38
PCB-203 22'344'55'6-OcCB	NotFnd		1.1184	-		0.00E+00		0.62	ND	1.98E+03	4.28
PCB-195 22'33'44'56-OcCB	NotFnd		0.9518	-		0.00E+00		0.93	ND	2.09E+03	5.65
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.95	ND	2.09E+03	5.52
PCB-205 233'44'55'6-OcCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.09E+03	4.72
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.01	ND	2.23E+03	4.72
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0177	-		0.00E+00		1.05	ND	2.23E+03	4.55
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.01	ND	2.23E+03	8.01

SGS ID: MB1\_11883\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

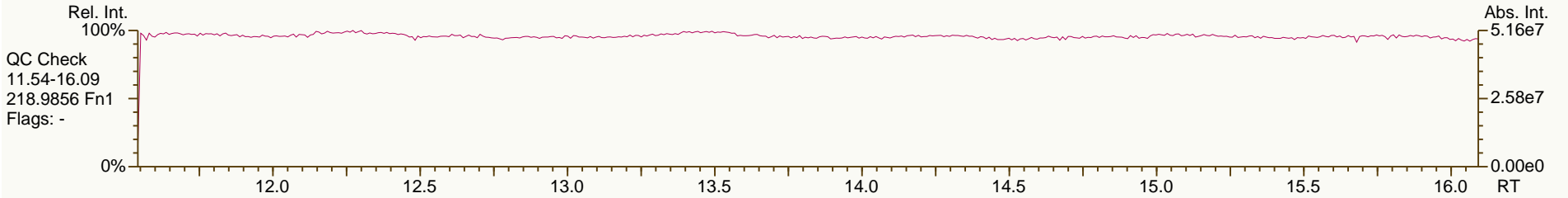
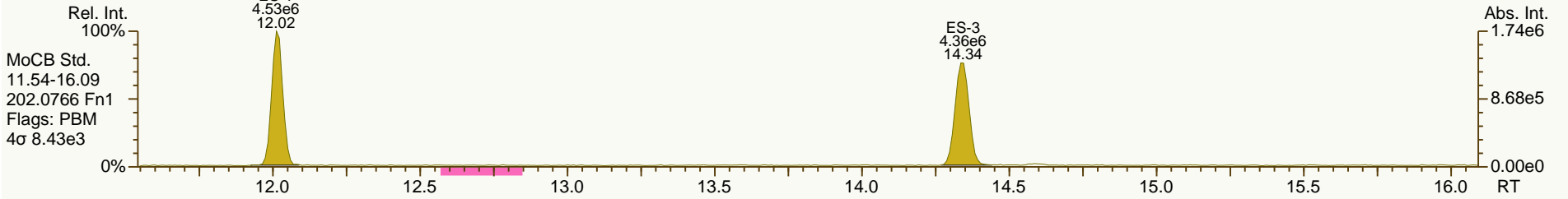
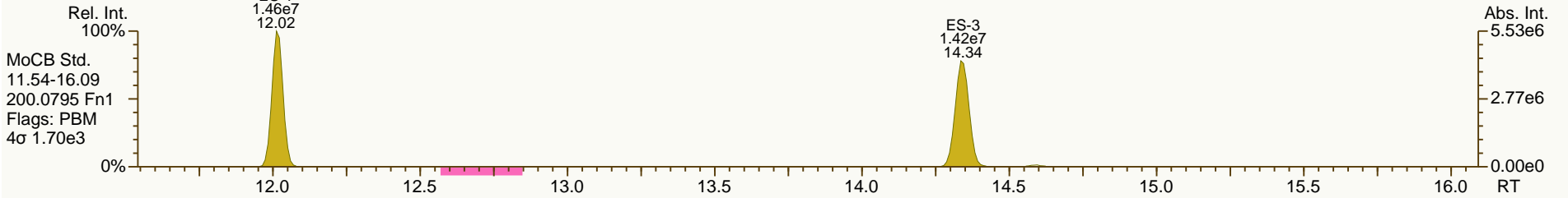
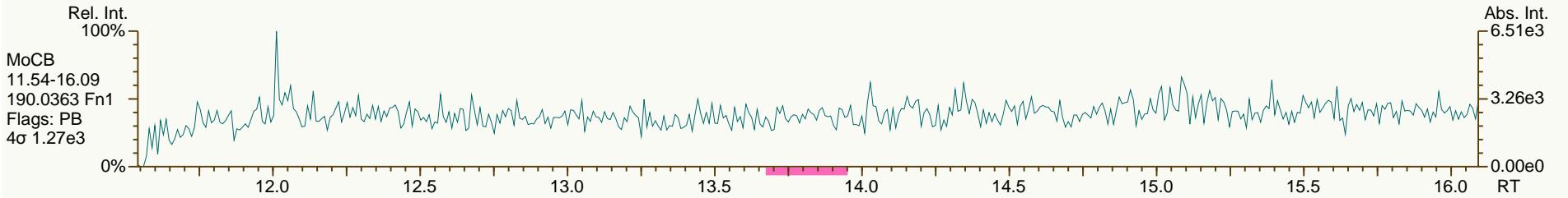
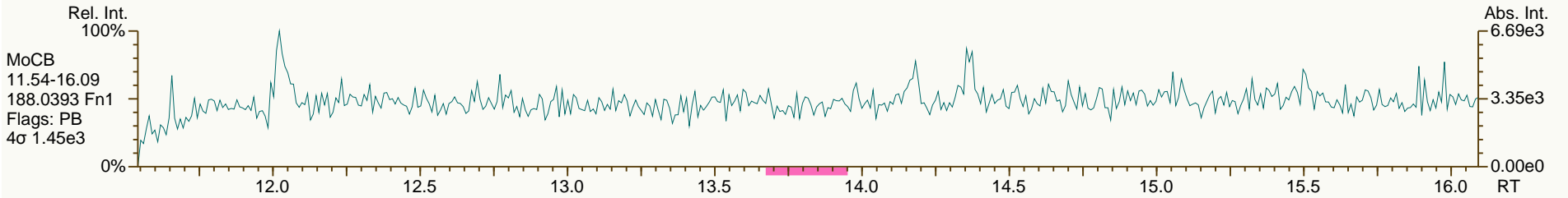
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

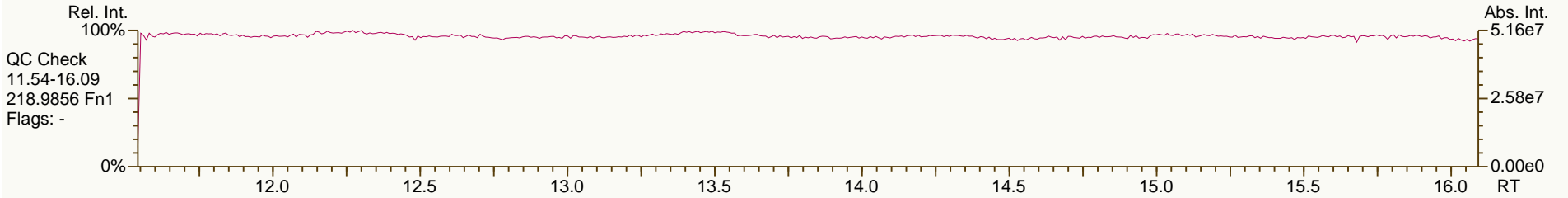
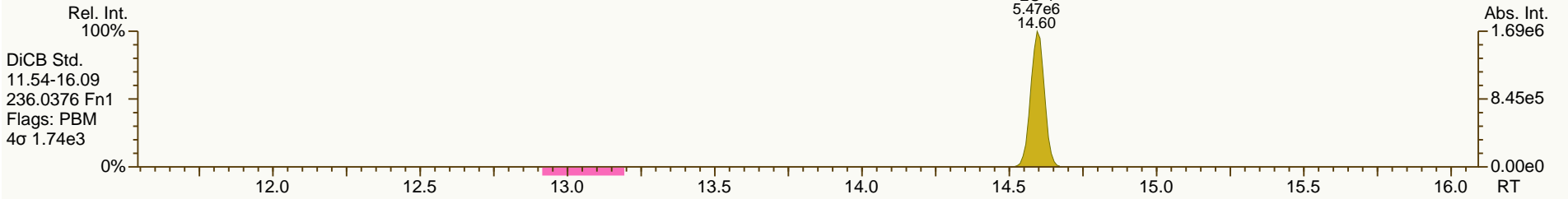
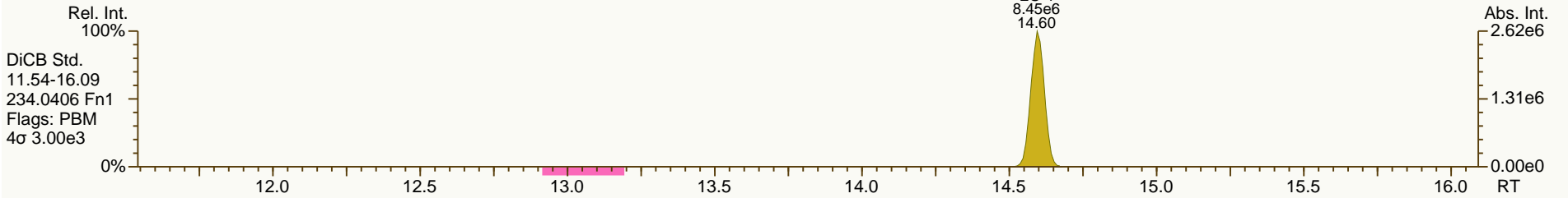
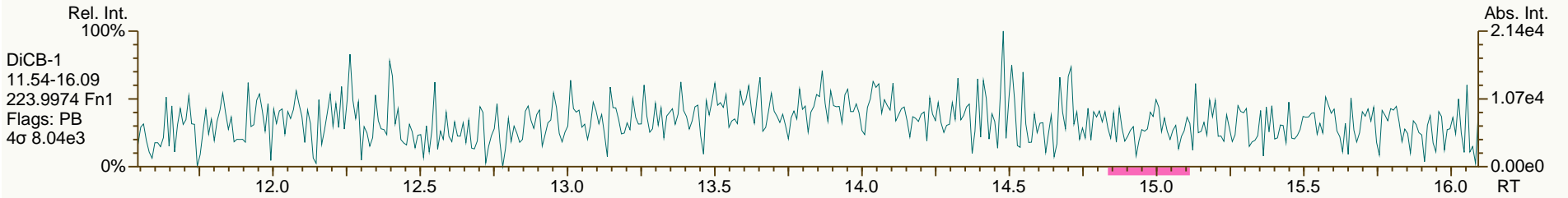
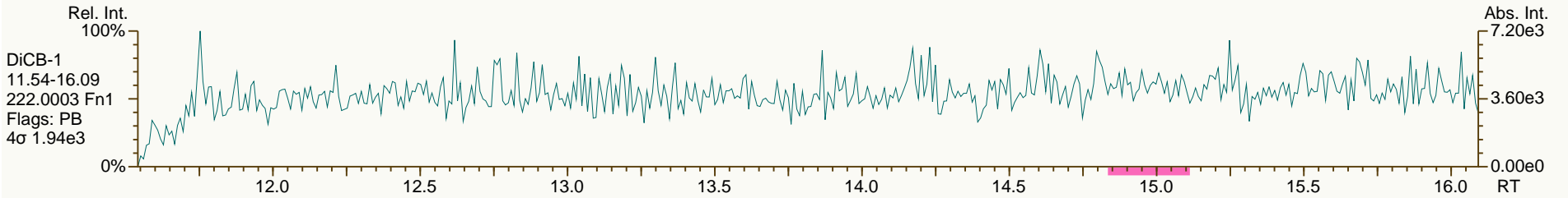
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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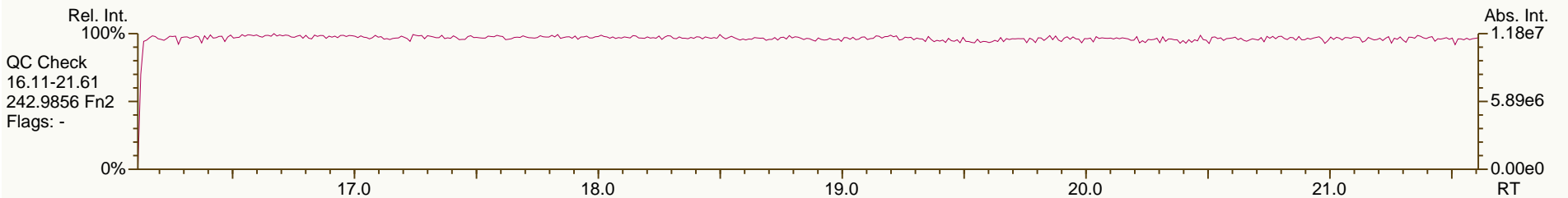
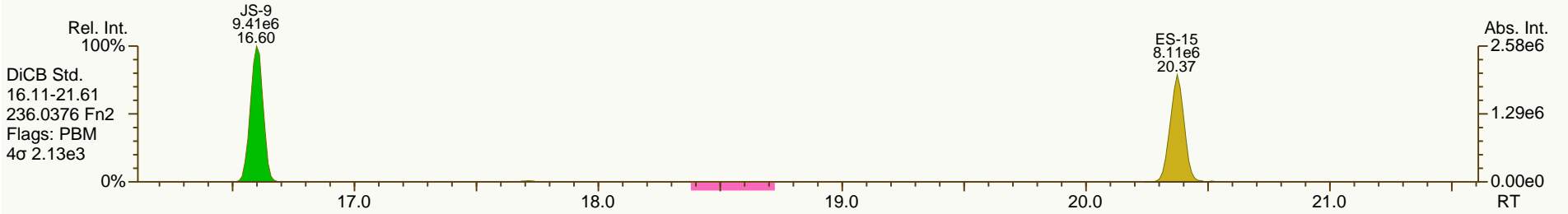
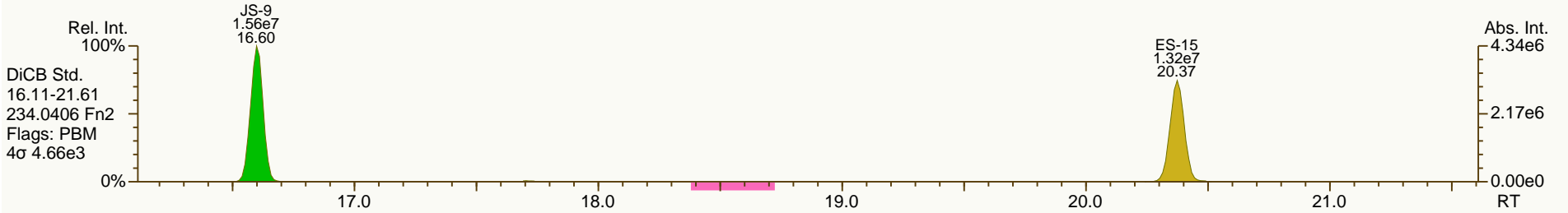
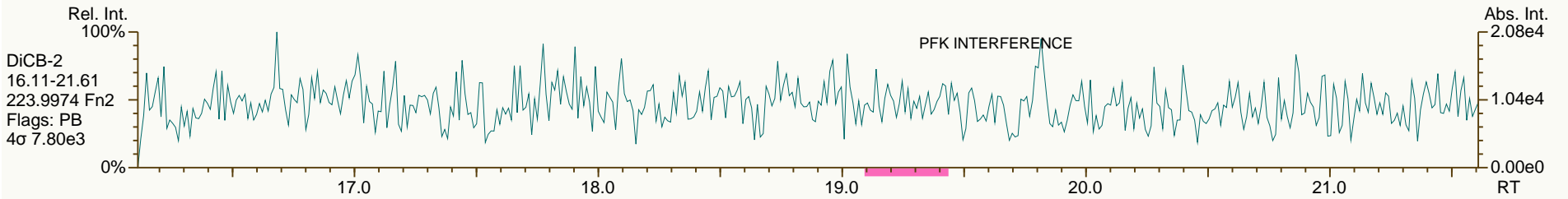
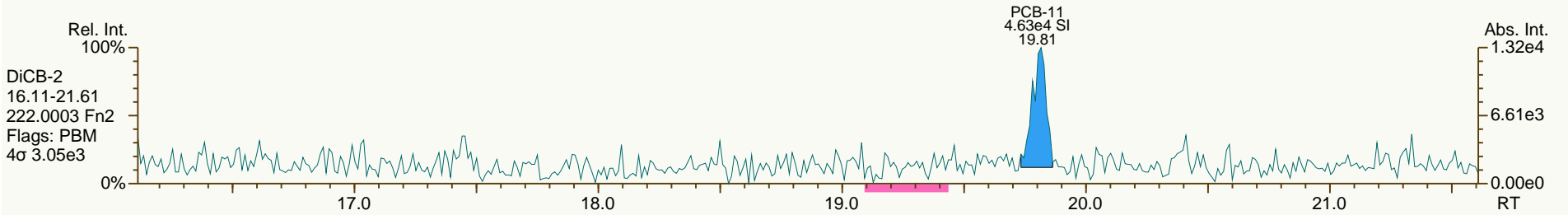
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

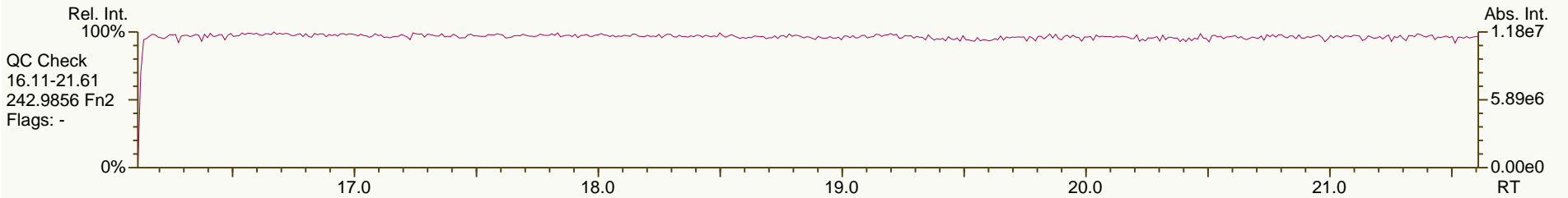
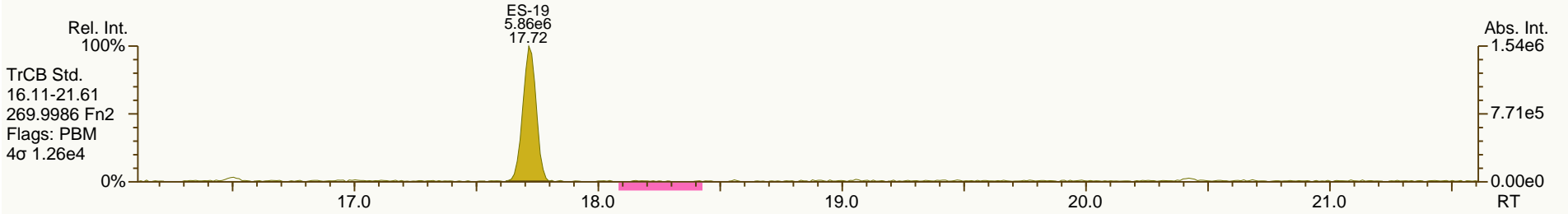
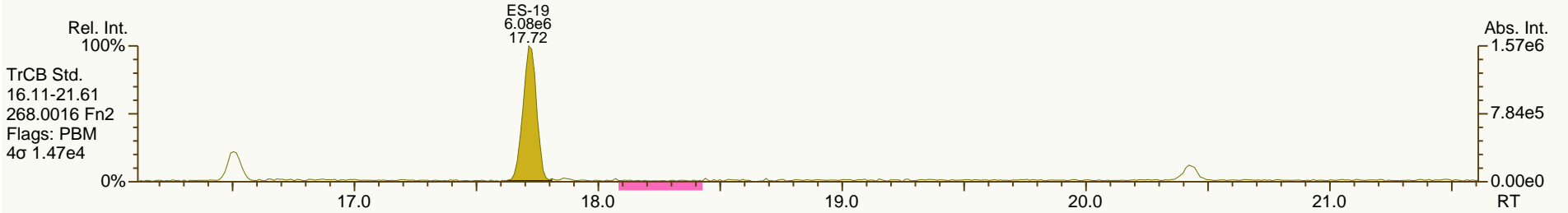
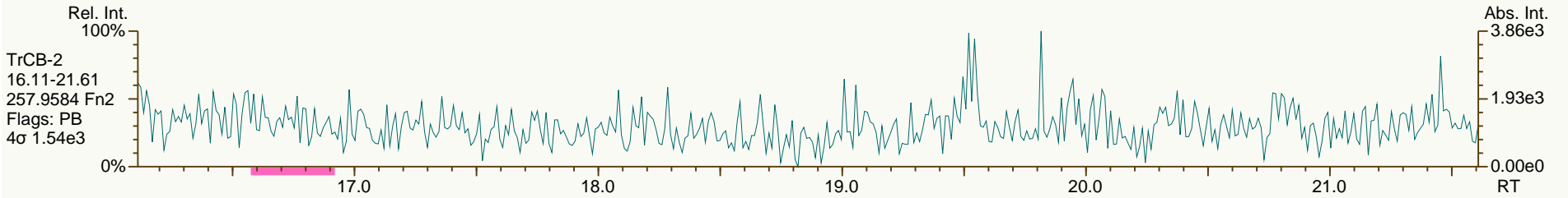
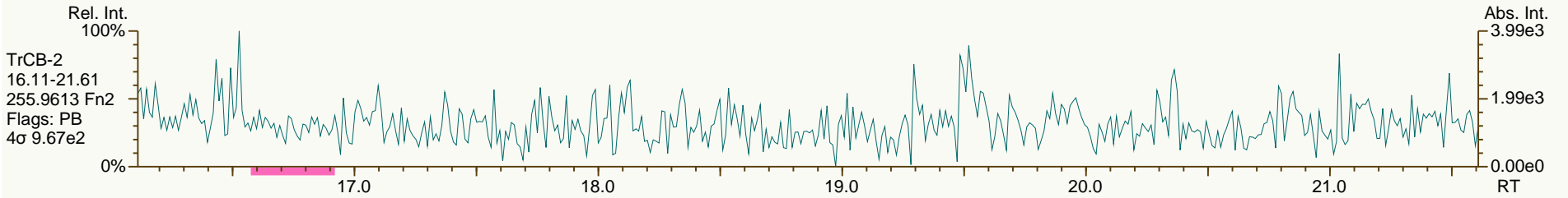
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
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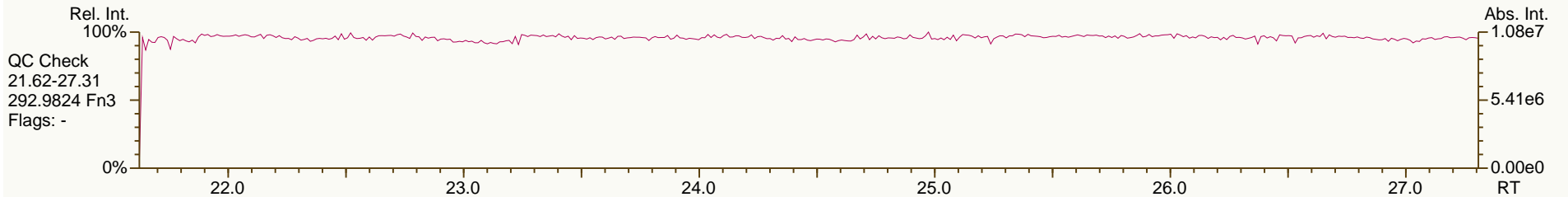
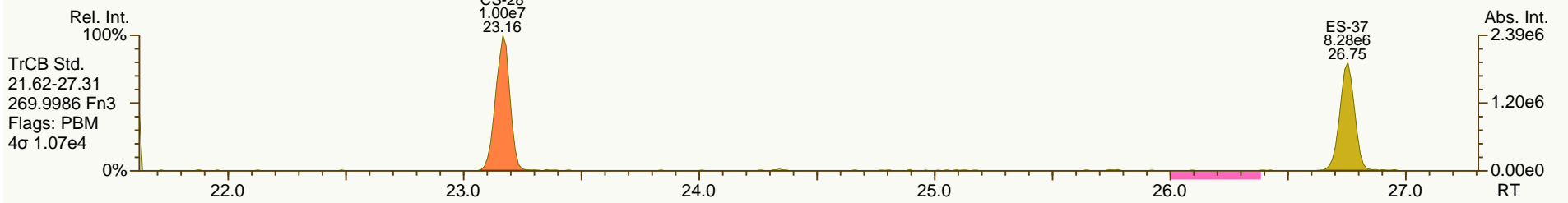
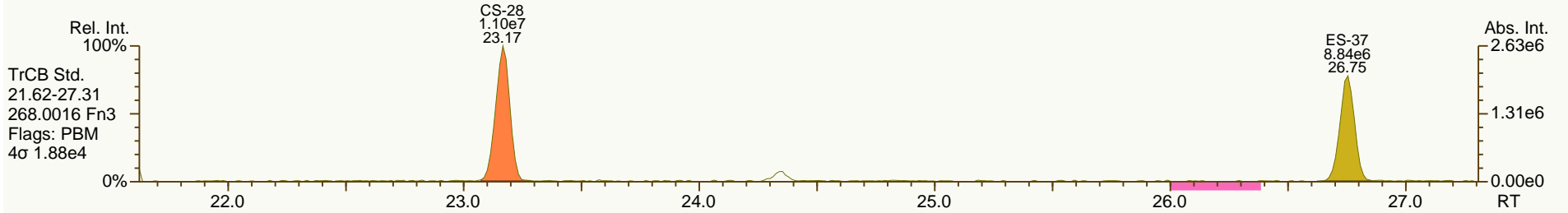
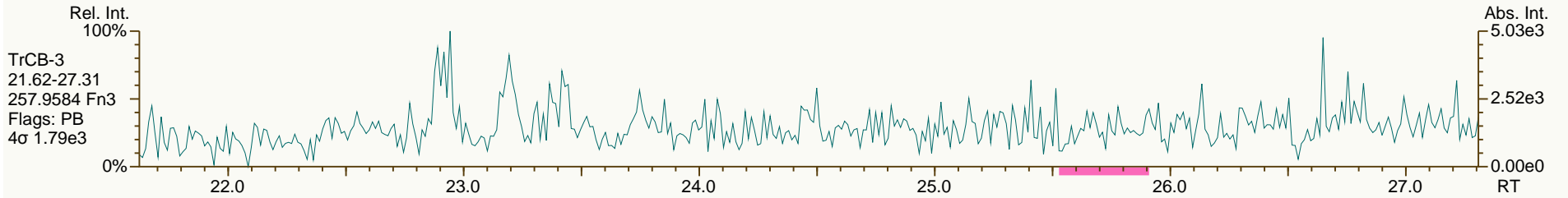
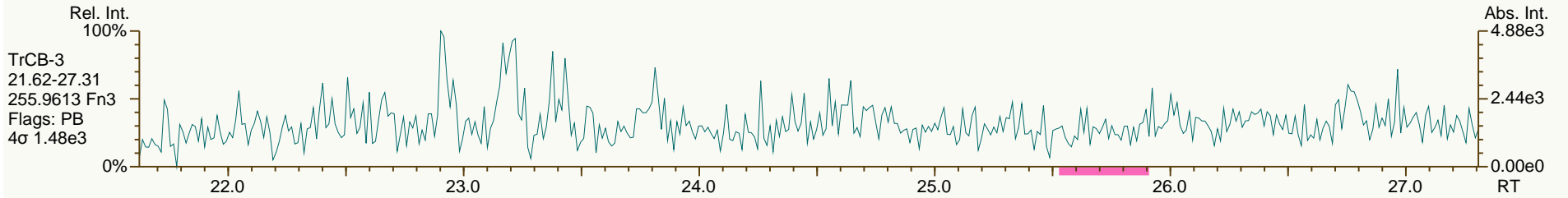




SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

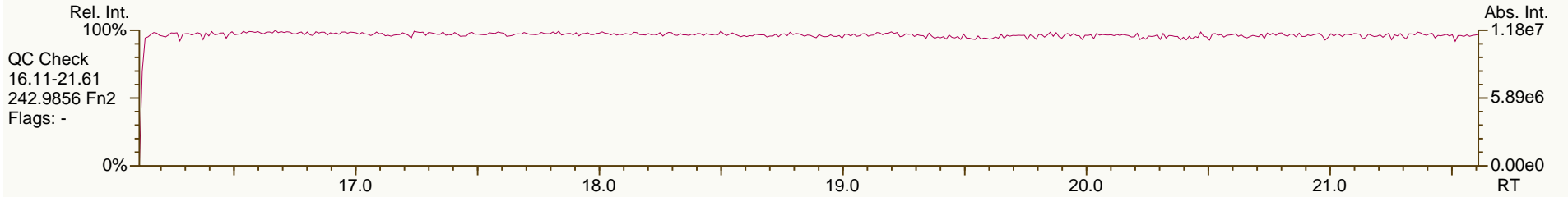
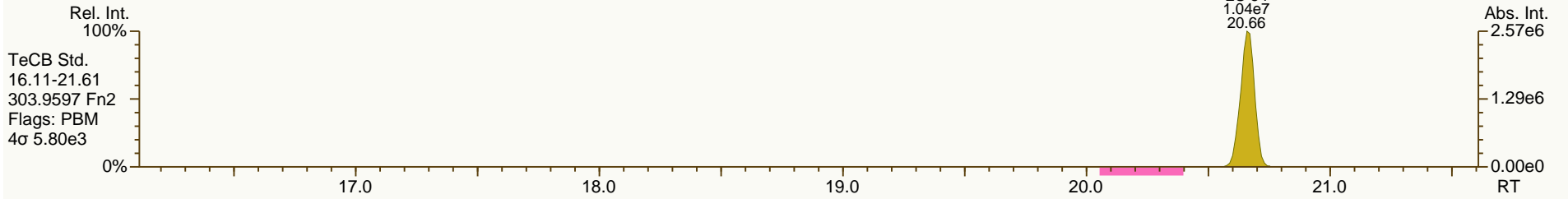
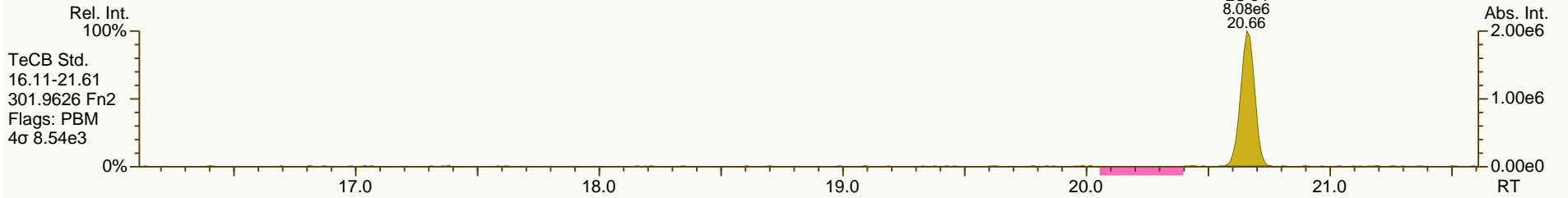
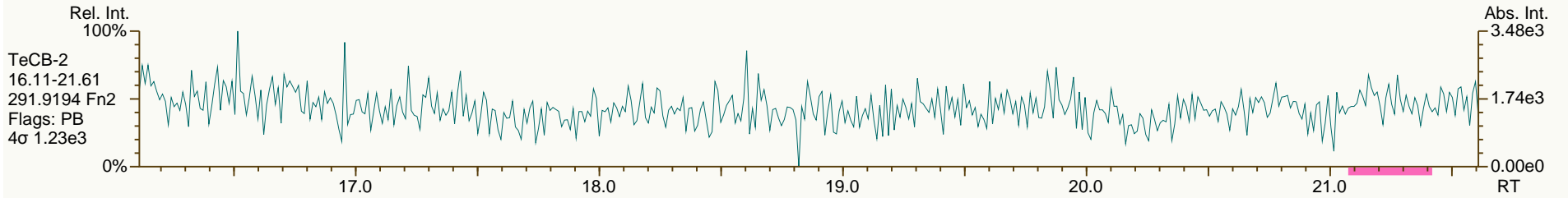
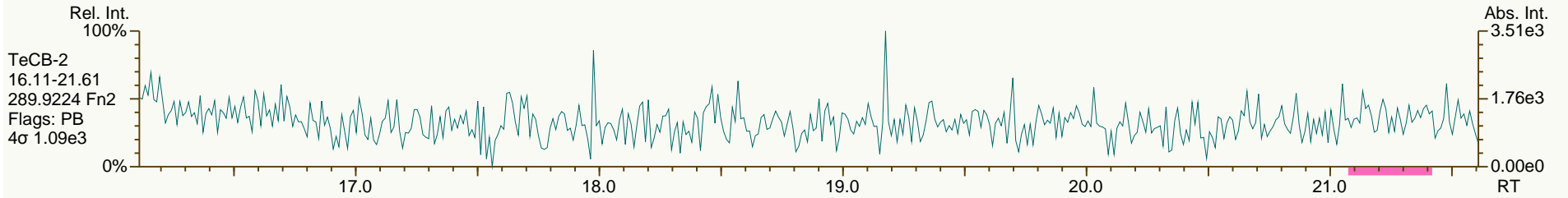
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

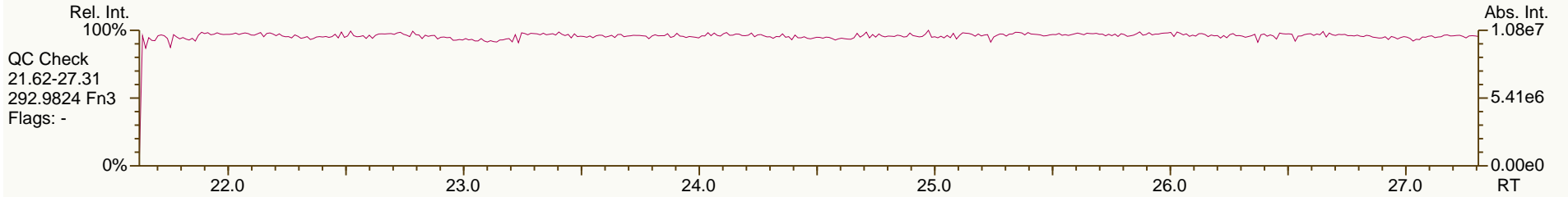
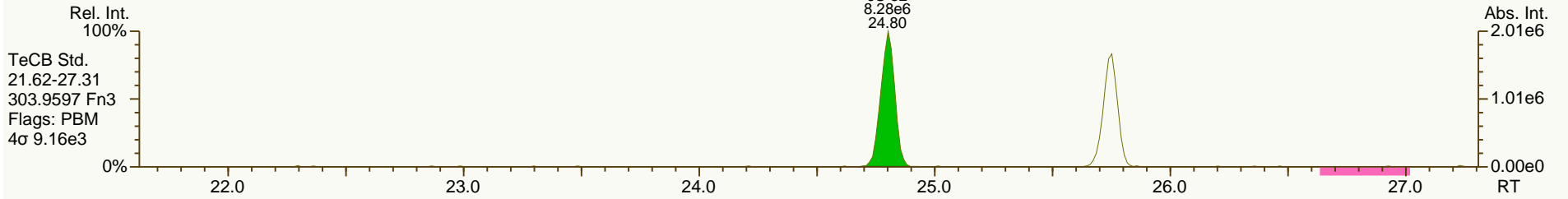
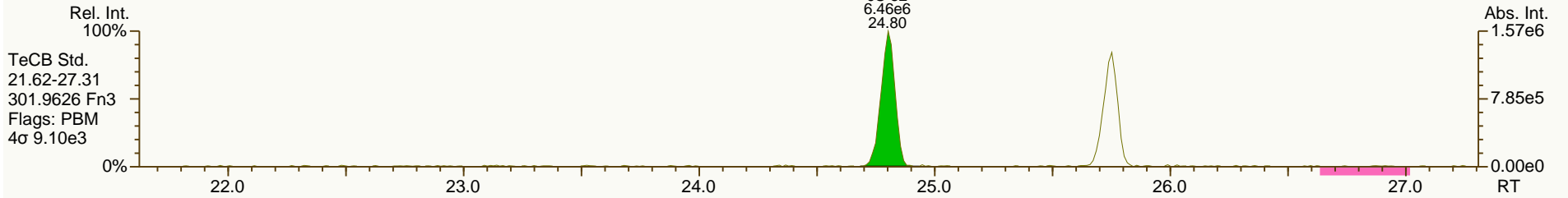
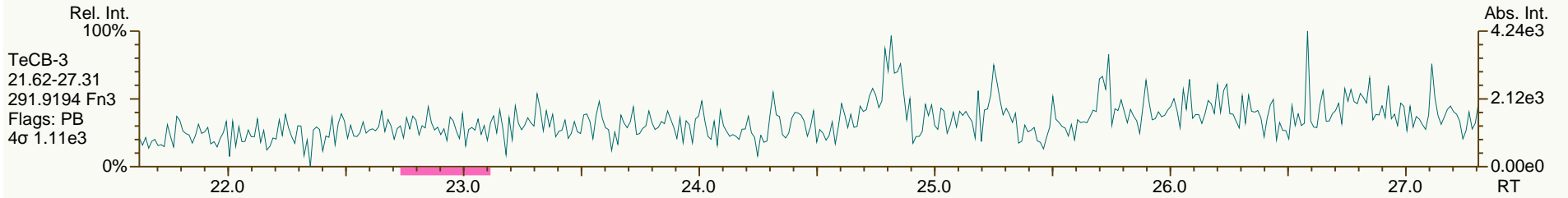
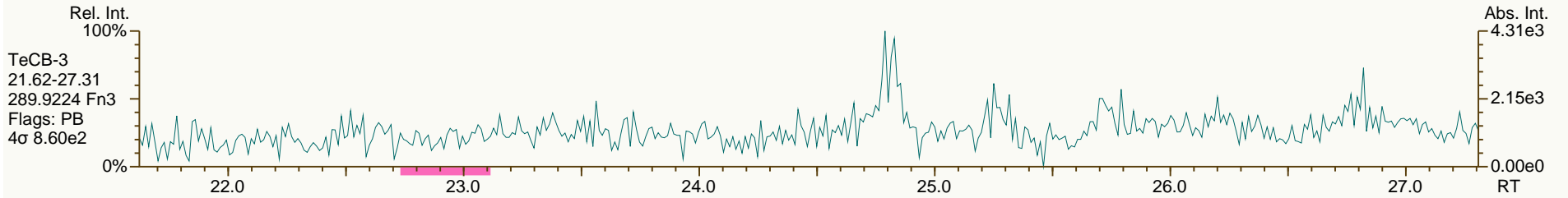
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
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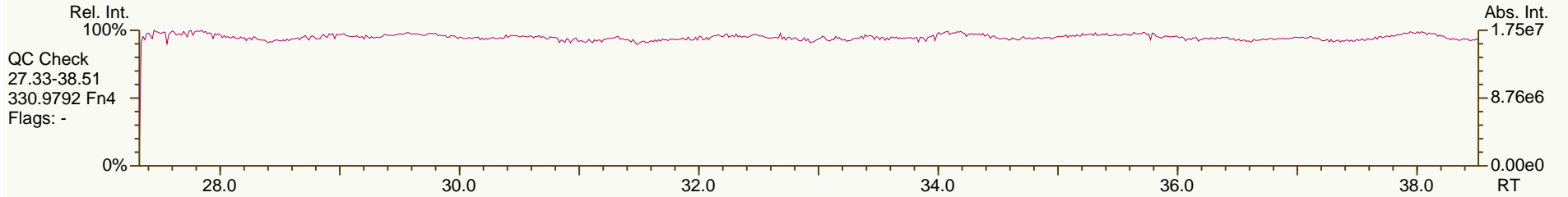
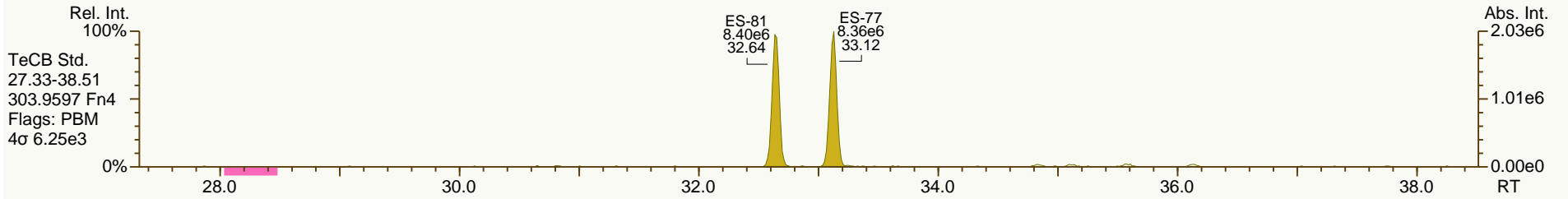
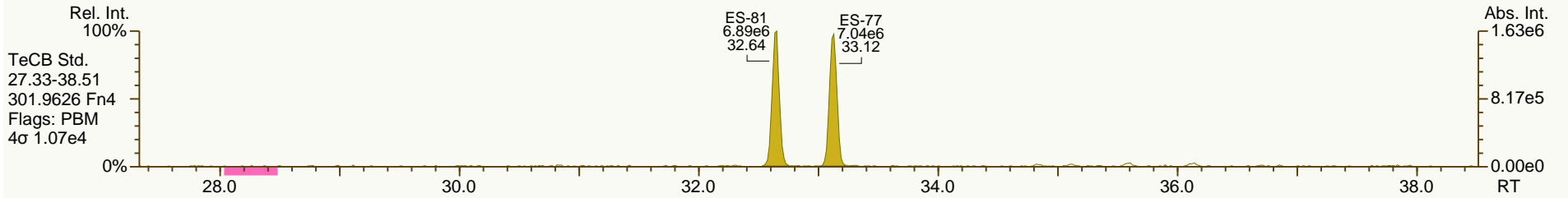
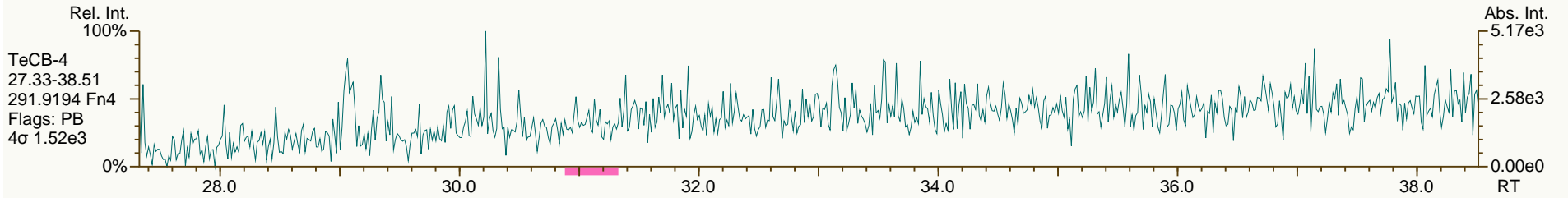
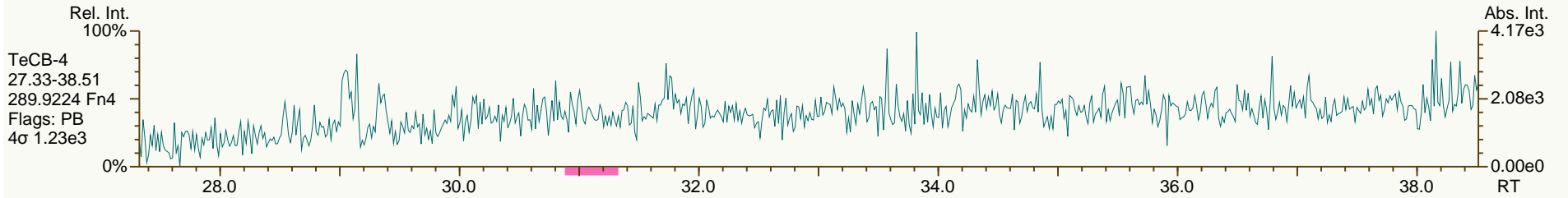
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

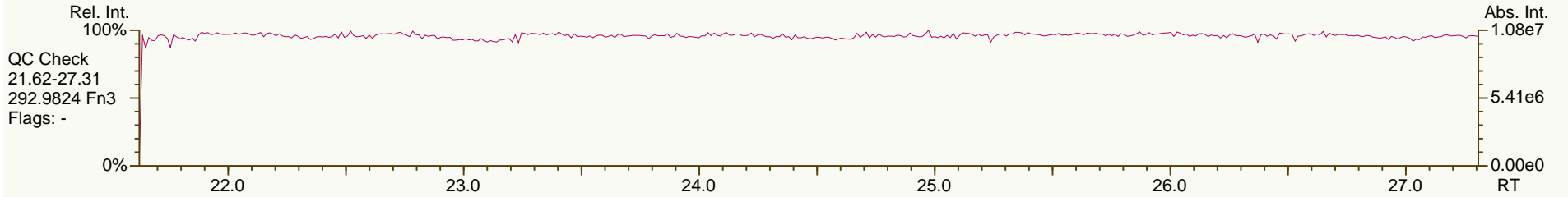
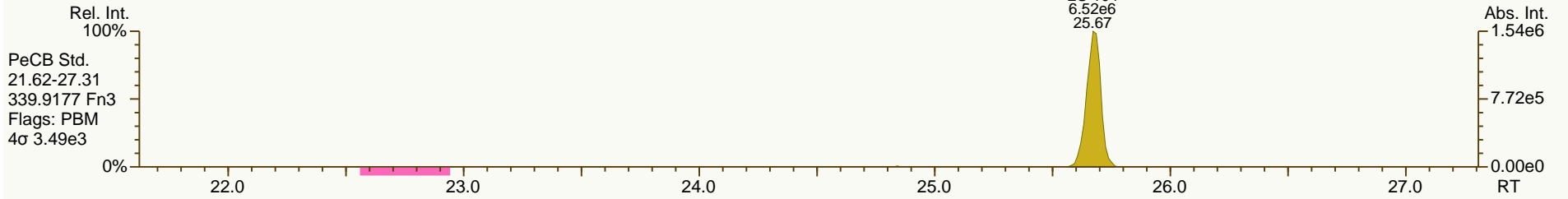
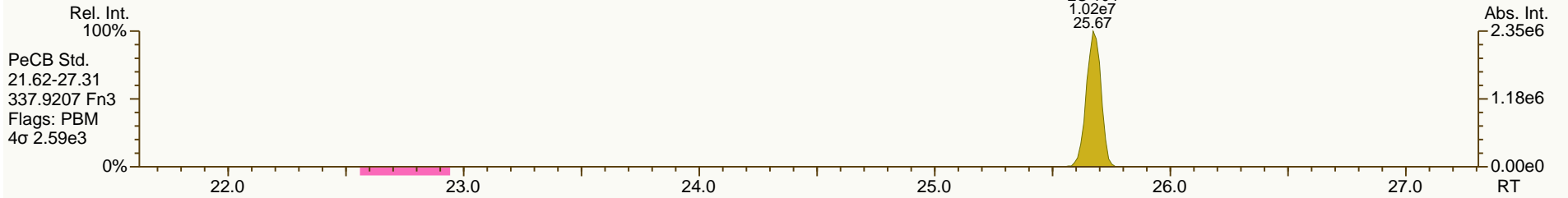
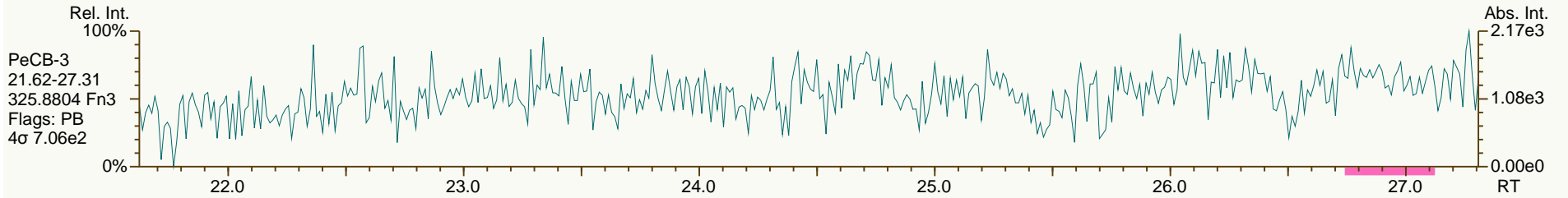
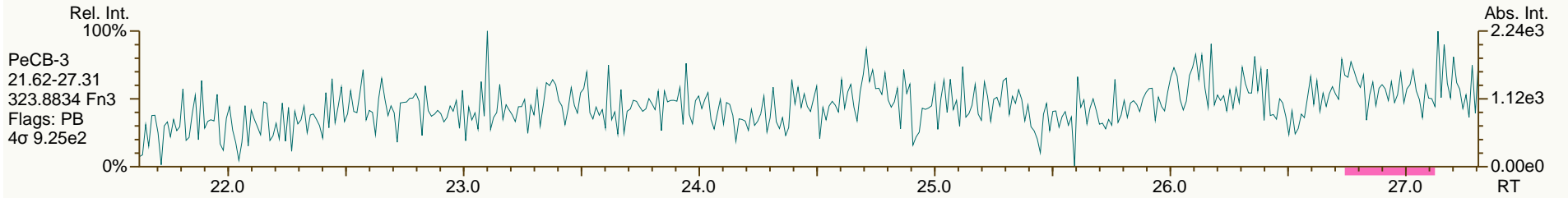
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

Acq: 24-Mar-2014 16:41:39  
User: CTW Datafile: 140324S07



SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

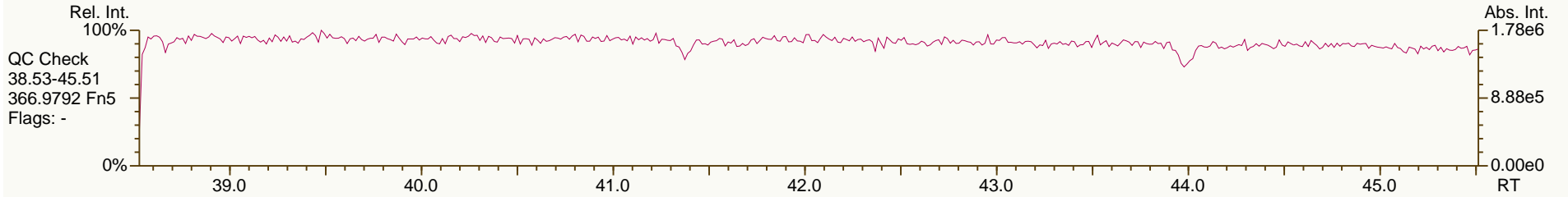
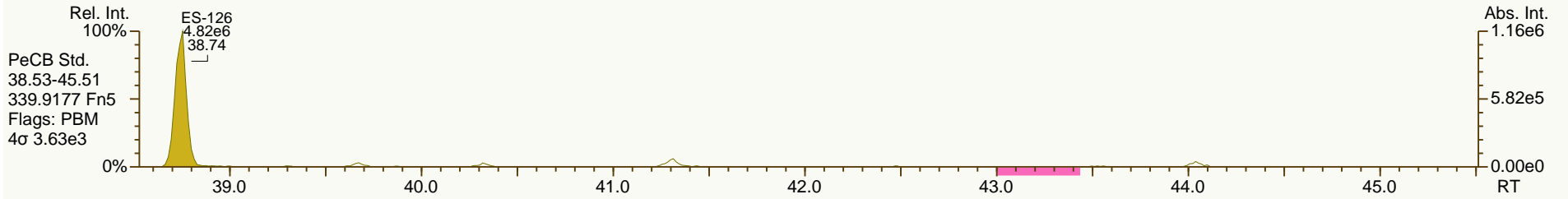
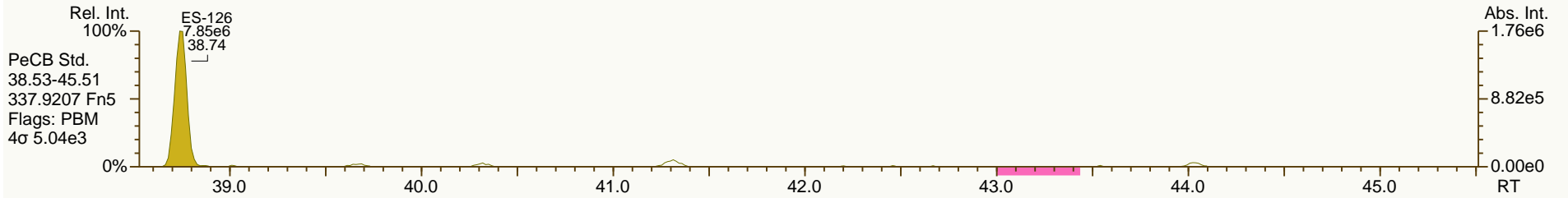
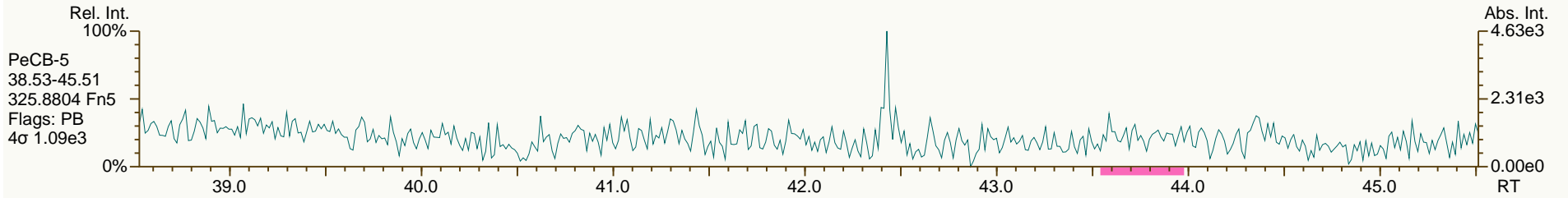
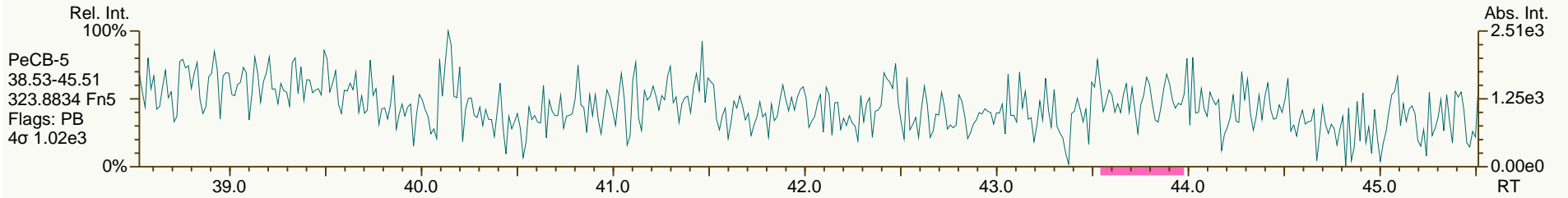
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

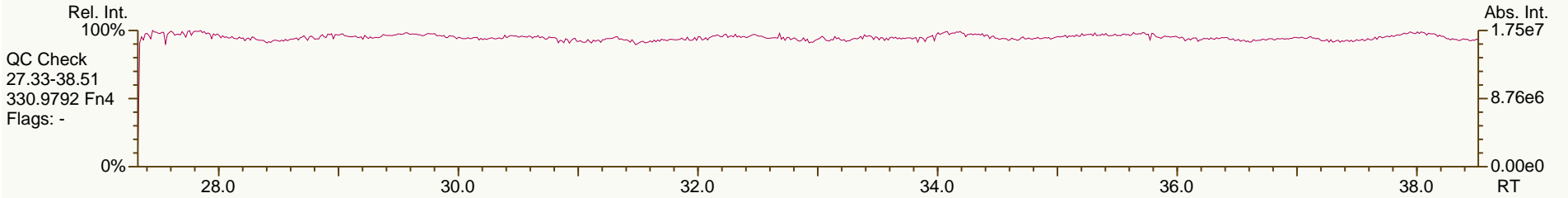
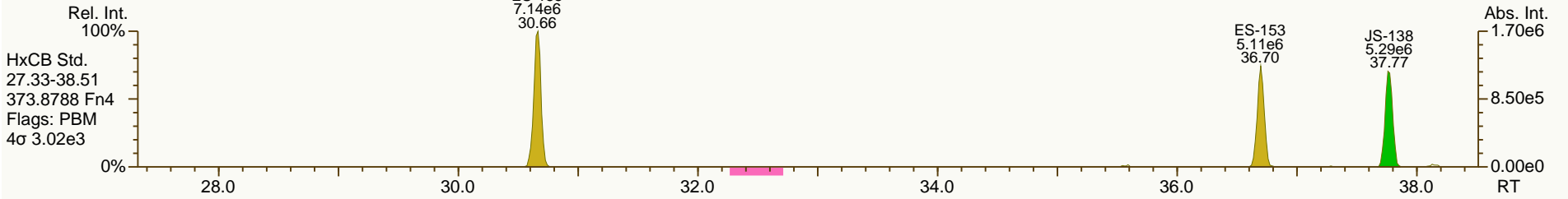
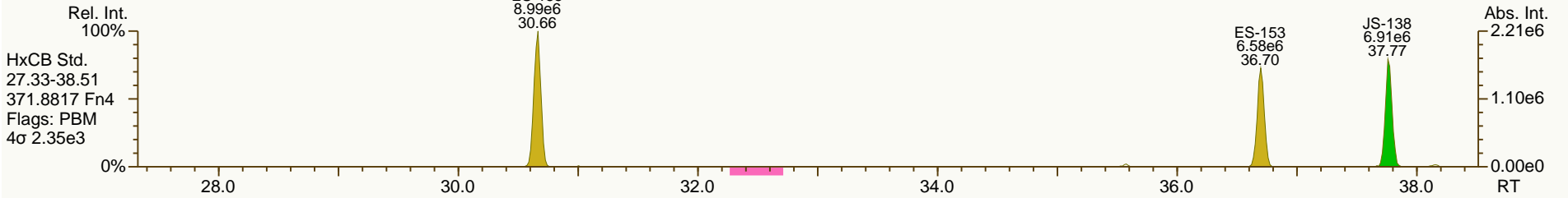
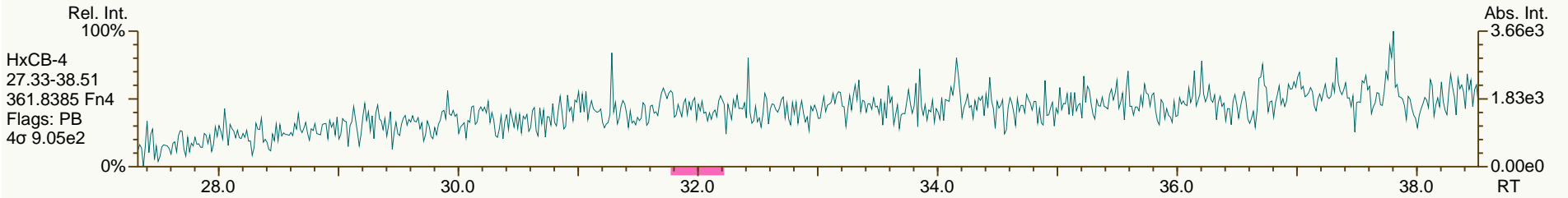
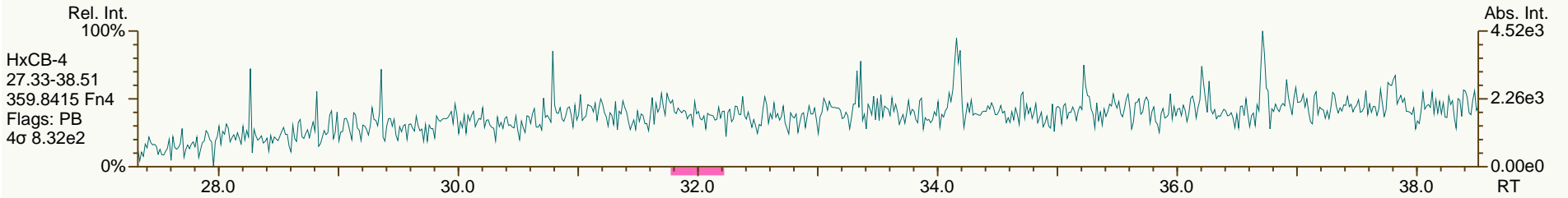
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

Acq: 24-Mar-2014 16:41:39  
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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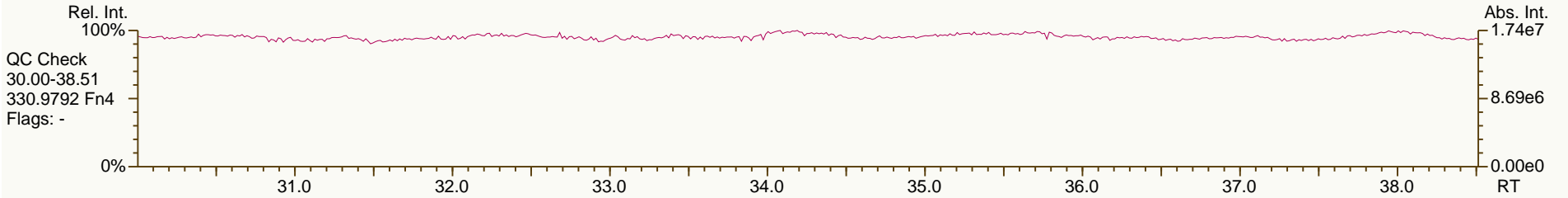
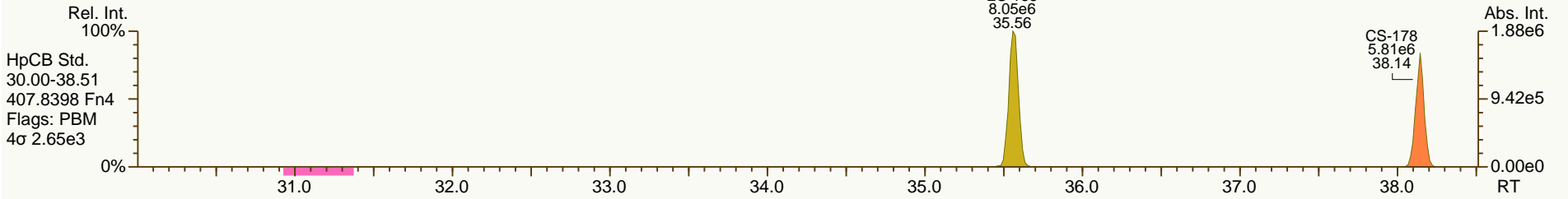
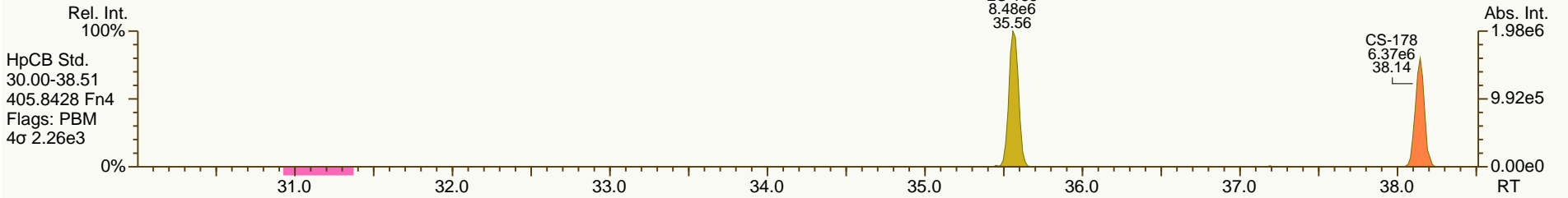
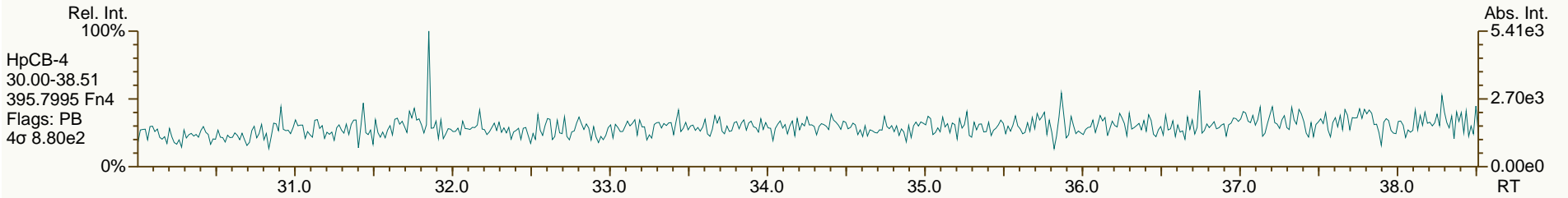
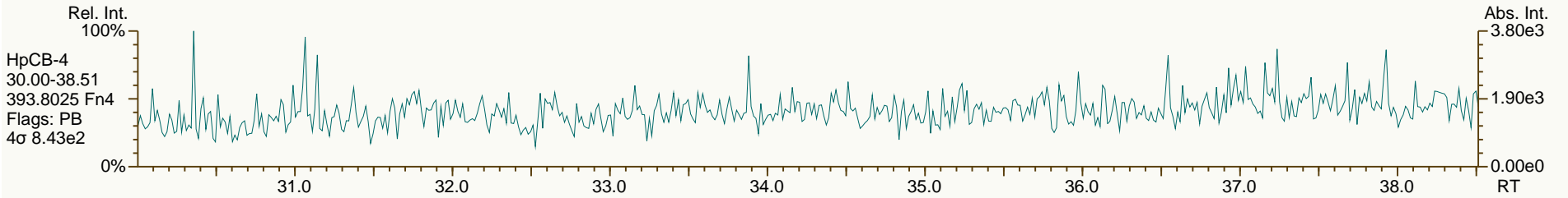
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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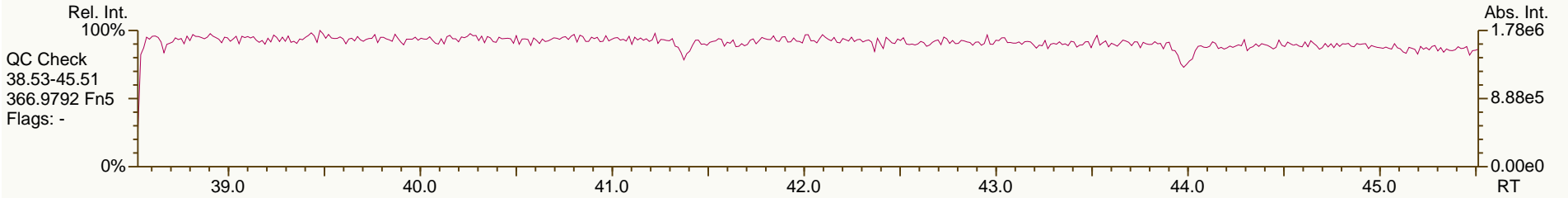
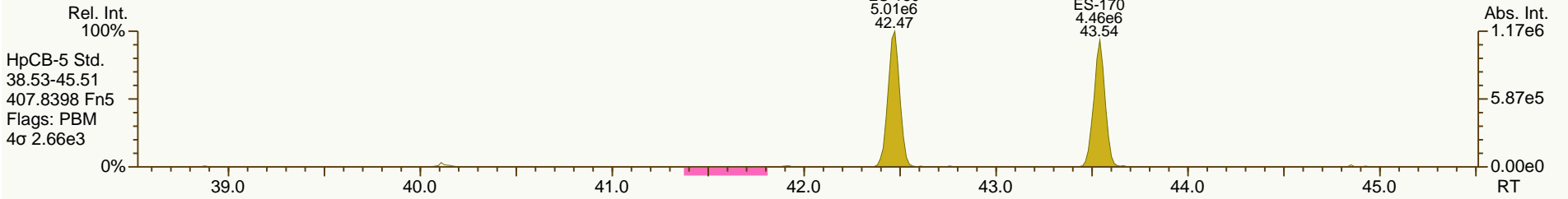
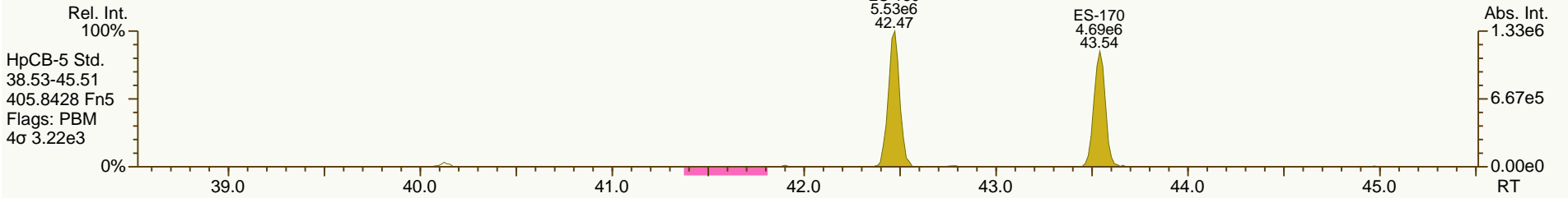
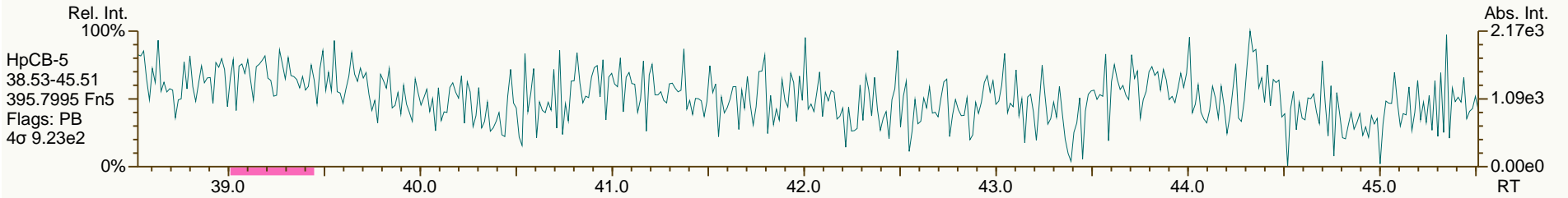
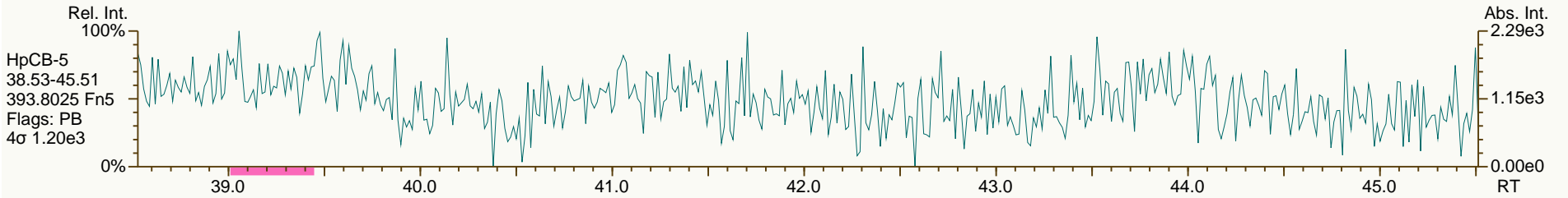
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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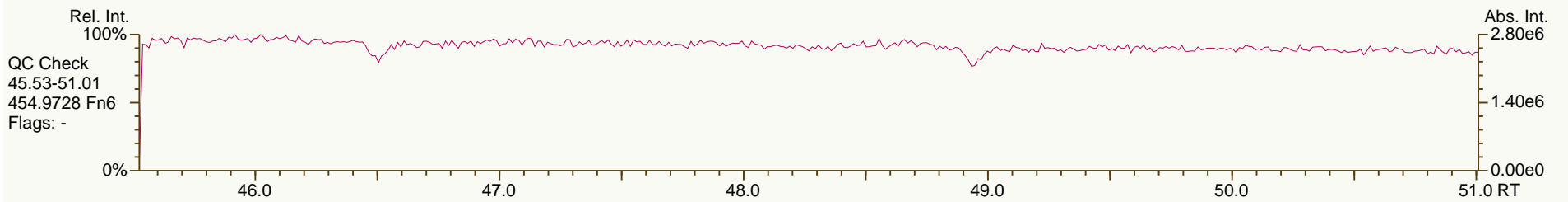
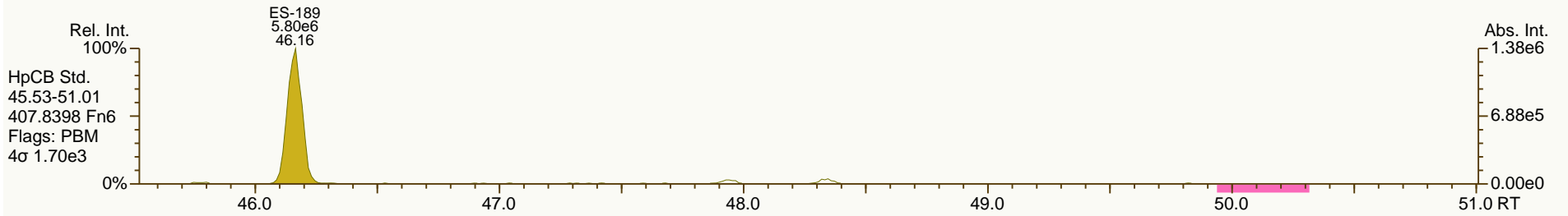
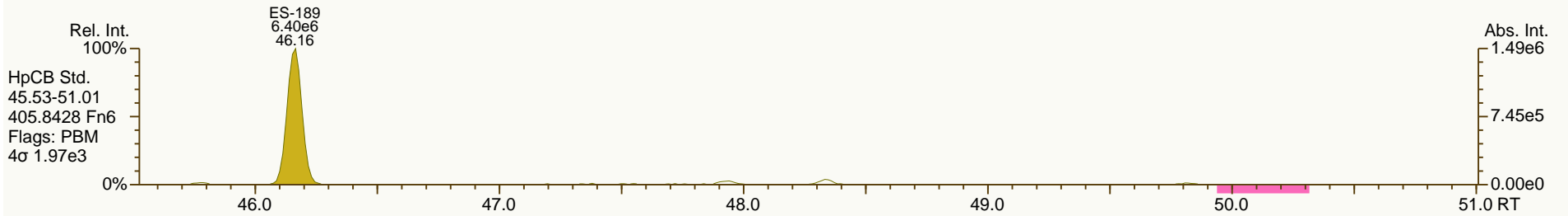
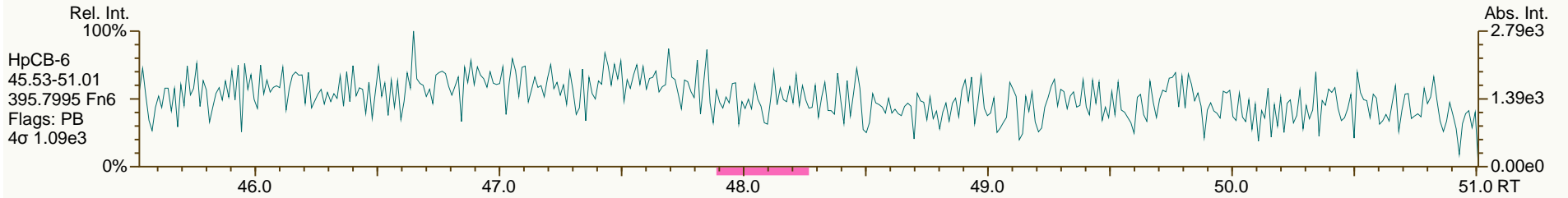
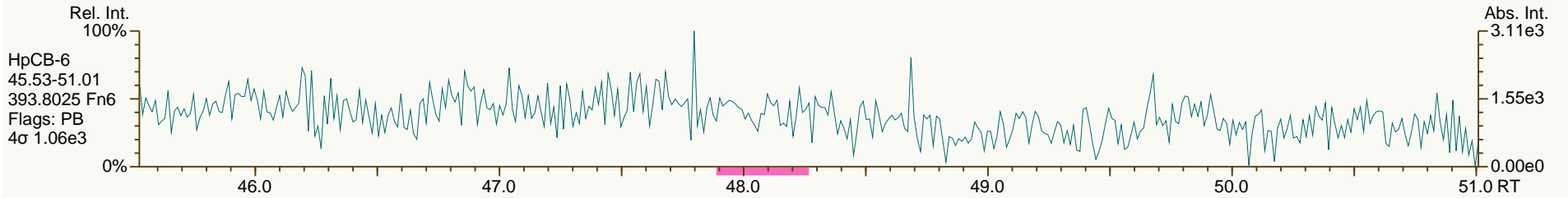
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
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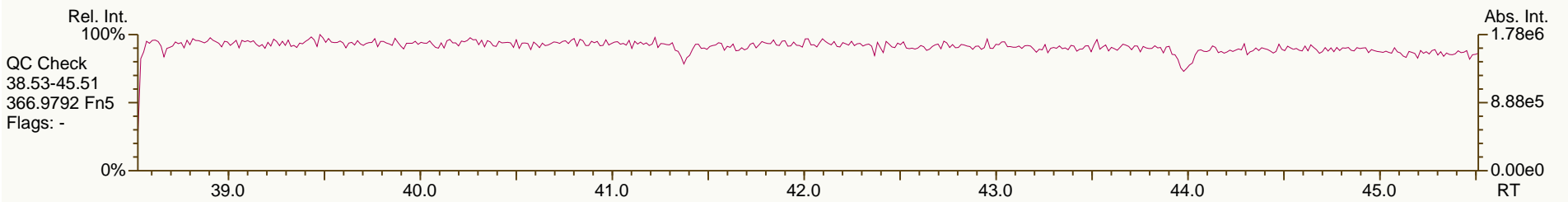
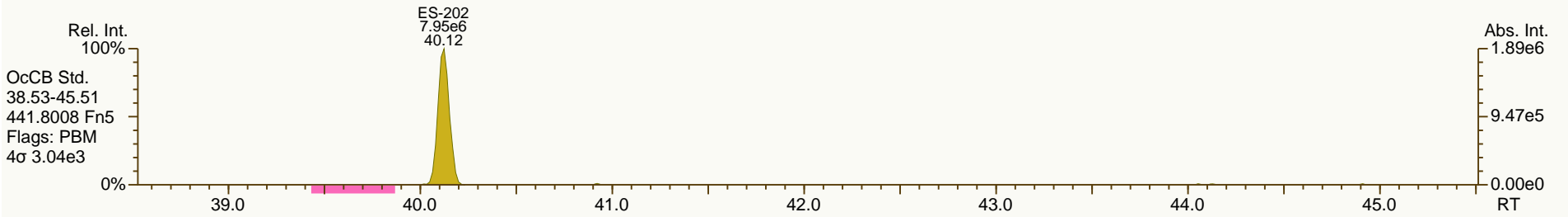
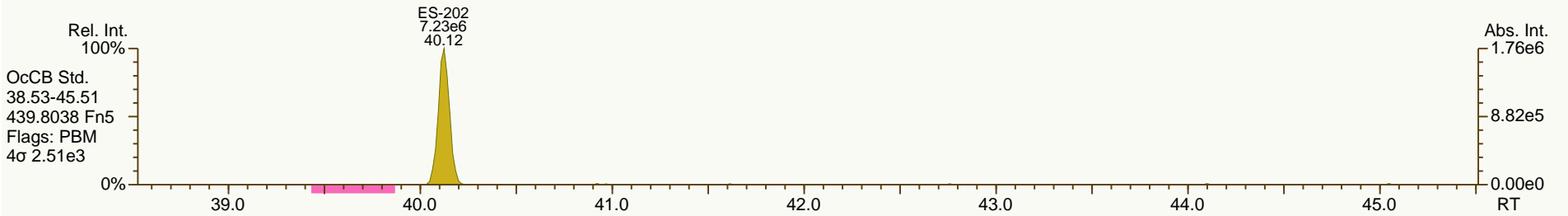
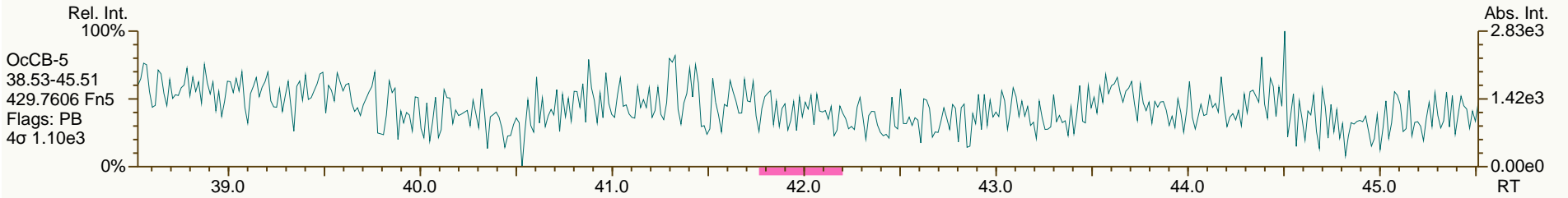
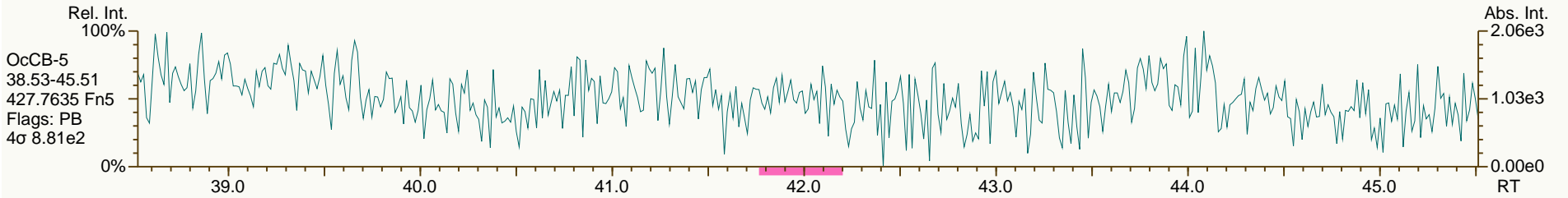
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

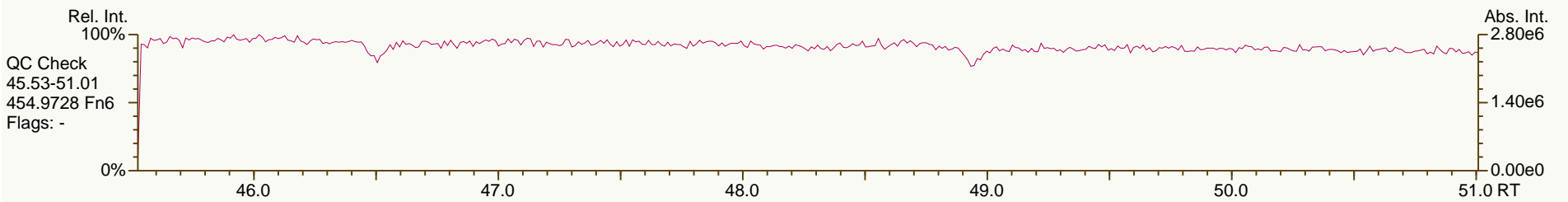
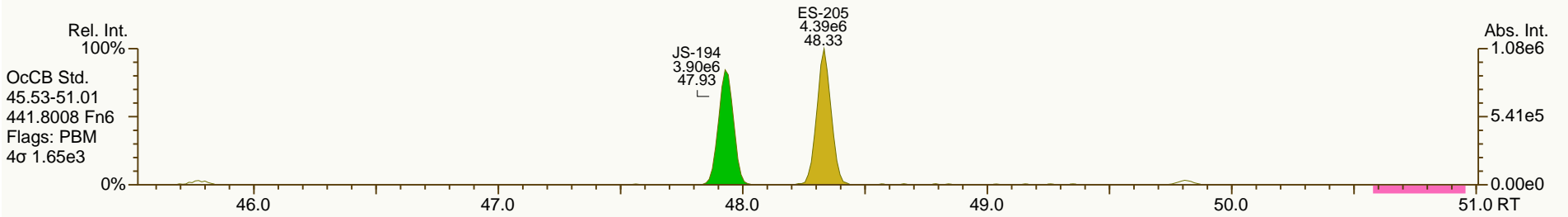
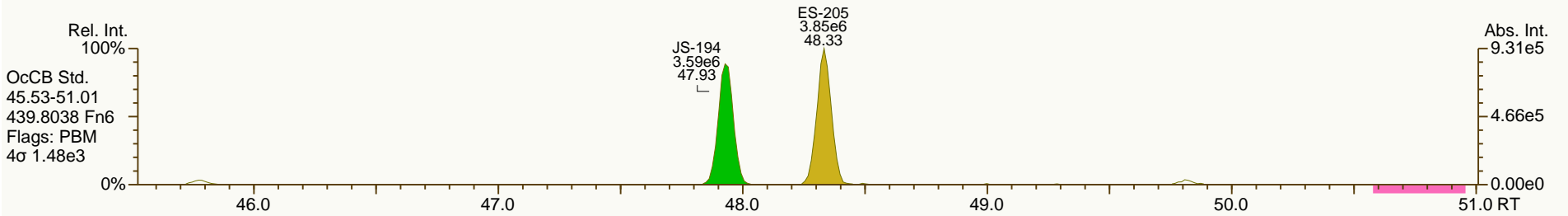
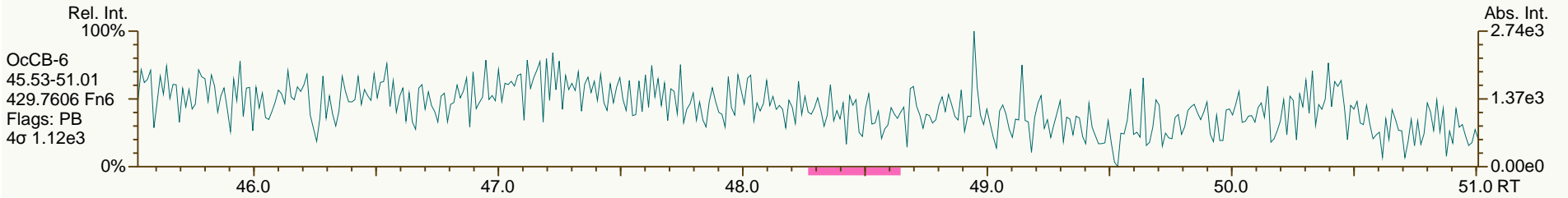
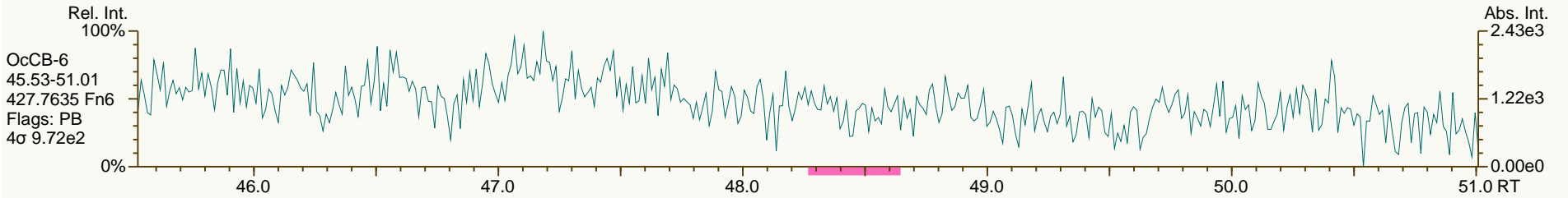
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
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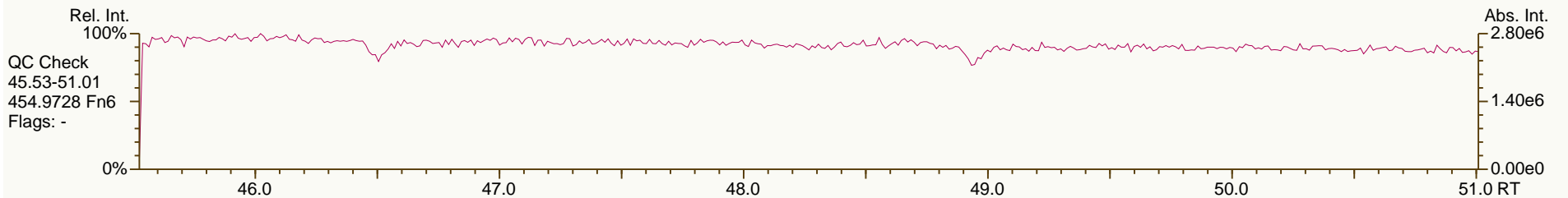
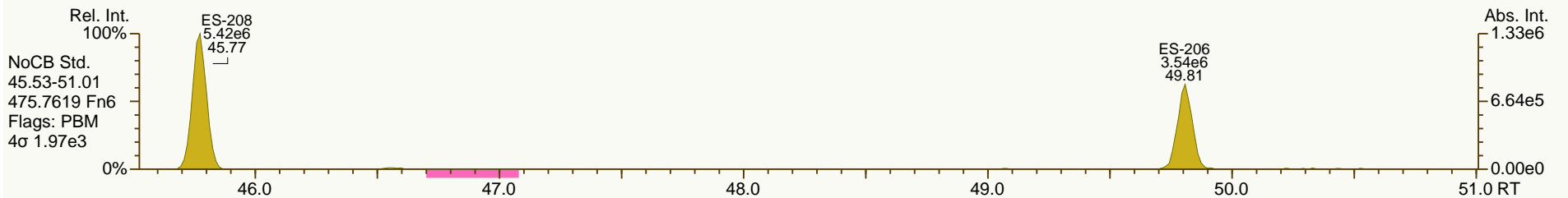
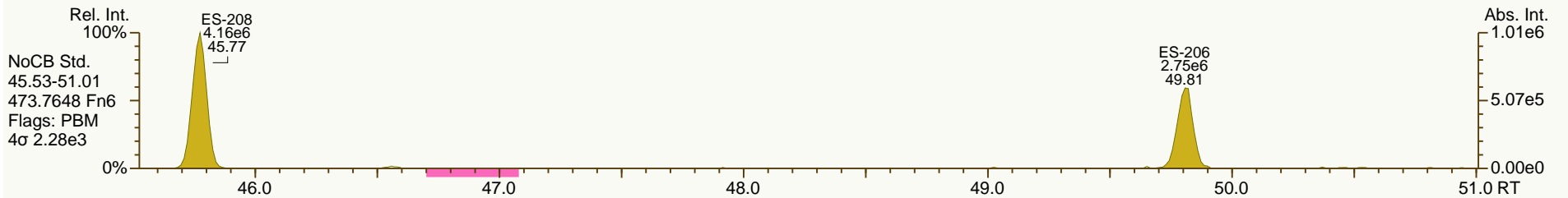
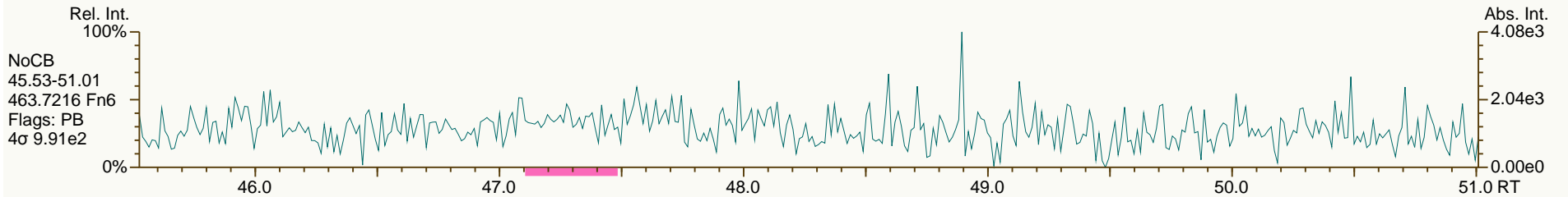
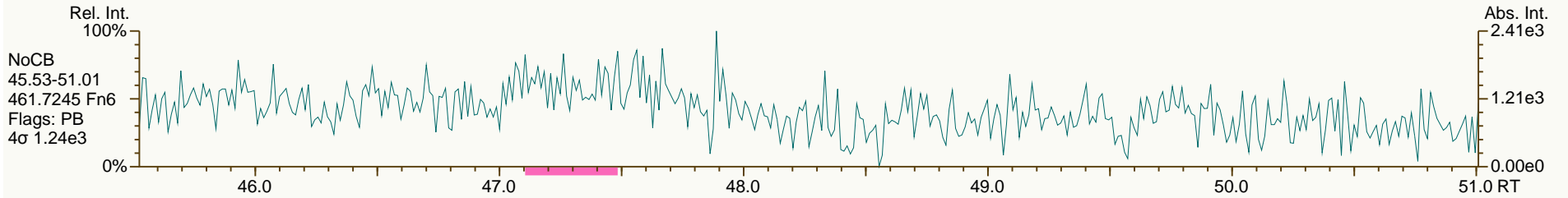
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

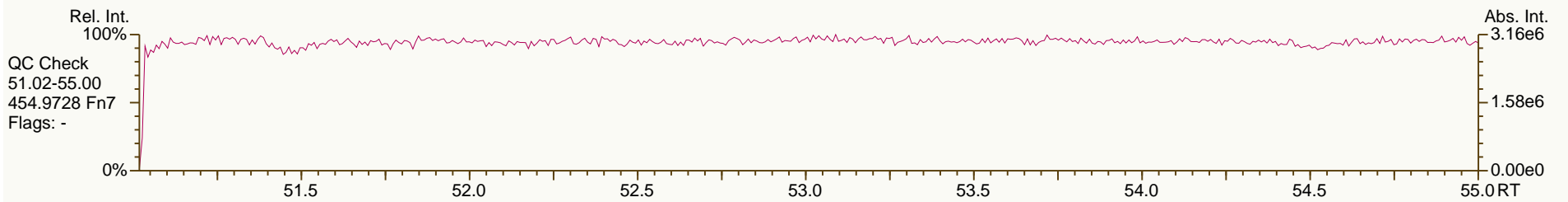
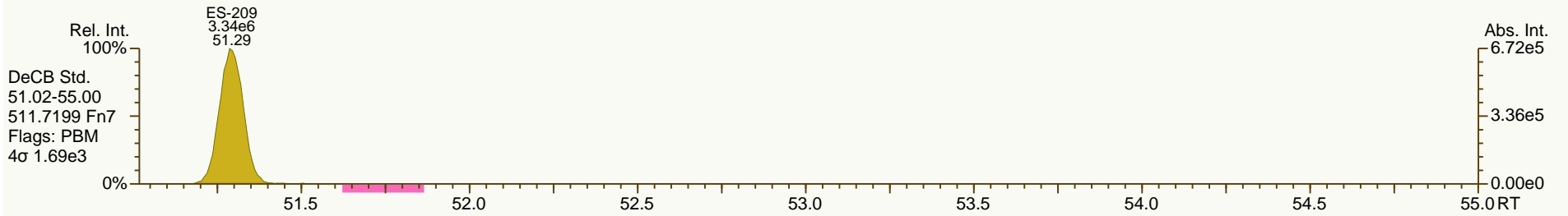
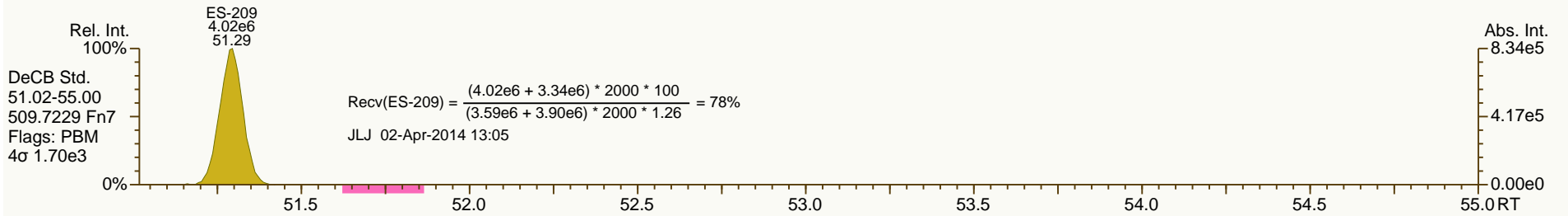
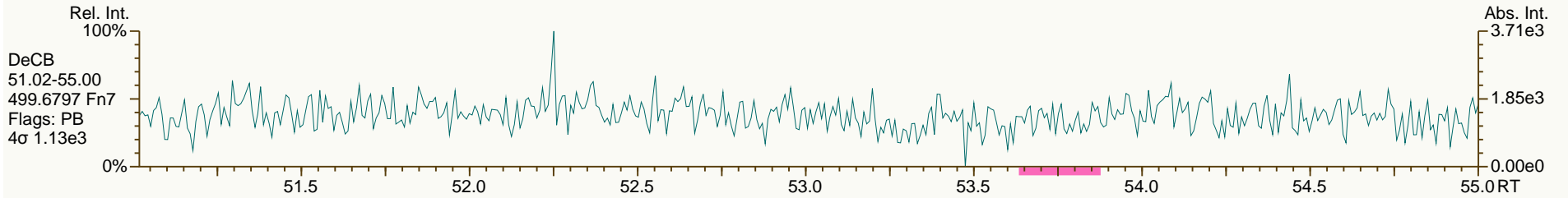
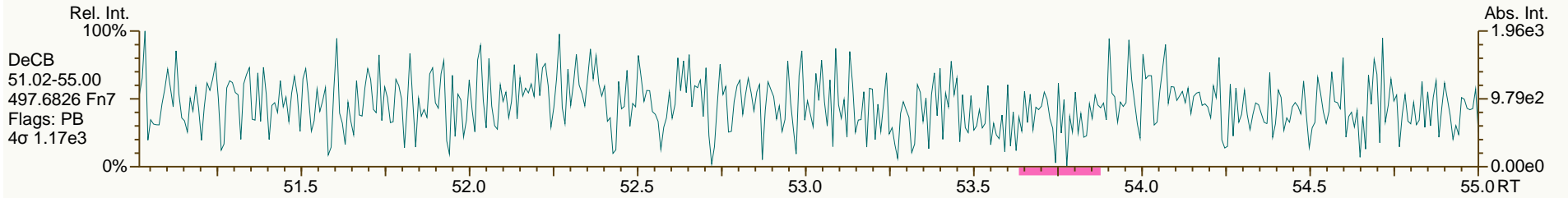
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SGS ID: MB1\_11883\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 50

Acq: 24-Mar-2014 16:41:39  
 User: CTW Datafile: 140324S07





Lab ID: A6492\_11883\_PCB\_001-RJ

ACQ: 24-Mar-2014 17:38:59 CTW

Wt/Vol: 0.97 L

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Client ID: PB006.2-1 SWMID-140311-D (Total)

UTP: 02-Apr-2014 13:04 JLJ

J-level: 10.3 pg/L Split: 1

Checkcode: 712-582-BWJ

Datafile: 140324S08

RPT: 02-Apr-2014 13:06 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	33.14		1.0006	1.0005	-0.2	1.04E+06	0.84	1.36	102	3.96E+03	4.23
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.32	ND	3.96E+03	4.33
PCB-105 233'44'-PeCB	36.14		1.0007	1.0006	-0.2	2.07E+06	0.61	1.03	308	2.57E+03	4
PCB-114 2344'5'-PeCB	35.60		1.0007	1.0007	0	1.23E+05	0.64	1.13	16.7	2.57E+03	3.57
PCB-118 23'44'5'-PeCB	35.13		1.0007	1.0007	0	4.27E+06	0.63	1.13	600	2.57E+03	3.68
PCB-123 23'44'5'-PeCB	34.85		1.0007	1.0006	-0.2	1.01E+05	0.63	1.11	14.2	2.57E+03	3.71
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.33	ND	1.92E+03	2.52
PCB-156/157 ...-HxCB	41.31	C	1.0005	1.0002	-0.7	2.39E+05	1.40	1.09	37.8	1.72E+03	3.95
PCB-167 23'44'55'-HxCB	40.34	EMPC	1.0006	1.0006	0	7.69E+04	1.00	1.15	11.1	1.72E+03	2.55
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.10	ND	1.72E+03	3.1
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.21	ND	1.95E+03	2.86
PCB-209 DeCB	51.31		1.0004	1.0004	0	6.32E+06	1.18	1.07	1,680	1.79E+03	5.76
ES PCB-1	12.01		0.7239	0.7238	-0.1	1.79E+07	3.22	1.05	70.1 %	15%	150%
ES PCB-3	14.34		0.8639	0.8639	0	1.78E+07	3.26	0.97	75.8 %	15%	150%
ES PCB-4	14.59		0.8794	0.8793	-0.1	1.32E+07	1.56	0.66	82.4 %	25%	150%
ES PCB-15	20.37		1.2270	1.2274	+0.5	2.28E+07	1.65	1.09	86.8 %	25%	150%
ES PCB-19	17.72		1.0673	1.0674	+0.1	1.15E+07	1.09	0.55	86.6 %	25%	150%
ES PCB-37	26.75		1.0786	1.0787	+0.2	1.74E+07	1.09	1.44	85 %	25%	150%
ES PCB-54	20.66		0.8332	0.8330	-0.2	1.83E+07	0.79	1.42	90.9 %	25%	150%
ES PCB-77	33.12		1.3353	1.3357	+0.8	1.55E+07	0.86	1.26	86.5 %	25%	150%
ES PCB-81	32.64		1.3159	1.3163	+0.8	1.53E+07	0.85	1.27	85.2 %	25%	150%
ES PCB-104	25.67		0.8329	0.8327	-0.3	1.72E+07	1.56	1.56	96 %	25%	150%
ES PCB-105	36.12		1.1713	1.1716	+0.7	1.34E+07	1.63	1.23	94.8 %	25%	150%
ES PCB-114	35.57		1.1536	1.1539	+0.6	1.34E+07	1.53	1.20	96.9 %	25%	150%
ES PCB-118	35.11		1.1385	1.1387	+0.4	1.30E+07	1.55	1.13	99.9 %	25%	150%
ES PCB-123	34.83		1.1294	1.1296	+0.4	1.31E+07	1.63	1.16	98.2 %	25%	150%
ES PCB-126	38.74		1.2564	1.2567	+0.7	1.23E+07	1.66	1.22	87.5 %	25%	150%
ES PCB-153	36.70		0.9717	0.9717	0	1.19E+07	1.27	1.10	96.5 %	25%	150%
ES PCB-155	30.66		0.8119	0.8118	-0.2	1.63E+07	1.32	1.60	90.8 %	25%	150%
ES PCB-156/157	41.30		1.0935	1.0936	+0.2	2.38E+07	1.26	1.14	93.6 %	25%	150%
ES PCB-167	40.31		1.0673	1.0674	+0.2	1.24E+07	1.29	1.17	95 %	25%	150%
ES PCB-169	44.03		1.1656	1.1658	+0.5	1.05E+07	1.23	1.11	84.6 %	25%	150%
ES PCB-170	43.54		0.9084	0.9084	0	8.78E+06	1.08	1.18	92.7 %	25%	150%
ES PCB-180	42.47		0.8861	0.8860	-0.3	1.05E+07	1.04	1.44	93.1 %	25%	150%
ES PCB-188	35.56		0.7421	0.7420	-0.2	1.63E+07	1.02	1.52	95.8 %	25%	150%
ES PCB-189	46.16		0.9631	0.9631	0	1.24E+07	1.10	1.80	97.7 %	25%	150%
ES PCB-202	40.12		0.8372	0.8371	-0.2	1.47E+07	0.87	1.39	94.4 %	25%	150%
ES PCB-205	48.33		1.0084	1.0083	-0.3	8.07E+06	0.88	1.26	91.2 %	25%	150%
ES PCB-206	49.81		1.0391	1.0391	0	6.32E+06	0.74	1.00	90.3 %	25%	150%
ES PCB-208	45.77		0.9550	0.9549	-0.3	9.66E+06	0.78	1.38	99.8 %	25%	150%
ES PCB-209	51.29		1.0701	1.0701	0	7.28E+06	1.16	1.26	82.2 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.16		0.9341	0.9341	0	2.23E+07	1.08	1.10	117 %	30%	135%
SS PCB-111	33.14		1.0747	1.0748	+0.2	1.49E+07	1.61	1.03	111 %	30%	135%
SS PCB-178	38.14		1.0099	1.0100	+0.2	1.20E+07	1.12	0.62	119 %	30%	135%
CS PCB-28	23.16		0.9341	0.9341	0	2.23E+07	1.08	1.59	99.3 %	30%	135%
CS PCB-111	33.14		1.0747	1.0748	+0.2	1.49E+07	1.61	1.20	109 %	30%	135%
CS PCB-178	38.14		1.0099	1.0100	+0.2	1.20E+07	1.12	0.94	114 %	30%	135%
JS PCB-9	16.60					2.42E+07	1.64				
JS PCB-52	24.80					1.42E+07	0.79				
JS PCB-101	30.83					1.15E+07	1.53				
JS PCB-138	37.77					1.12E+07	1.25				
JS PCB-194	47.93					7.02E+06	0.88				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	44.7	48.1	1.84		
						Di-CBs	622	622	4.29		
						Tri-CBs	5,850	5,850	4.34		
						Tetra-CBs	12,700	12,700	3.73		
						Penta-CBs	5,300	5,310	3.34		
						Hexa-CBs	1,610	1,690	3.1		
						Hepta-CBs	524	535	3.64		
						Octa-CBs	156	176	3.85		
						Nona-CBs	148	148	6.14		
PCB-1 2-MoCB	12.03		1.0011	1.0011	0	3.69E+05	3.42	1.21	35	2.74E+03	1.68
PCB-2 3-MoCB	14.17	J EMPC	0.9880	0.9879	-0.1	3.85E+04	2.24	1.28	3.48	2.74E+03	2.01
PCB-3 4-MoCB	14.35	J	1.0010	1.0008	-0.2	1.08E+05	2.72	1.30	9.63	2.74E+03	1.99
PCB-4 22'-DiCB	14.61		1.0011	1.0011	0	1.54E+06	1.49	0.98	245	3.74E+03	4.76
PCB-10 26'-DiCB	14.79	J	1.0135	1.0133	-0.2	9.66E+04	SI	1.59	9.49	3.74E+03	2.93
PCB-9 25'-DiCB	16.61		1.0010	1.0010	0	1.40E+05	SI	1.16	10.9	4.75E+03	3.89
PCB-7 24'-DiCB	16.78	J	1.0111	1.0108	-0.3	6.32E+04	SI	1.29	4.41	4.75E+03	3.49
PCB-6 23'-DiCB	17.01		1.0249	1.0250	+0.1	5.05E+05	1.43	1.21	37.7	4.75E+03	3.74
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.20	ND	4.75E+03	3.75
PCB-8 24'-DiCB	17.44		1.0506	1.0507	+0.1	2.20E+06	1.50	1.22	163	4.75E+03	3.71
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.40	ND	4.75E+03	3.24
PCB-11 33'-DiCB	19.80	B	0.9722	0.9721	-0.1	3.87E+05	1.68	1.17	29.8	4.75E+03	3.86
PCB-13/12 34'/34'-DiCB	20.08	J C	0.9867	0.9857	-1.2	1.85E+05	SI	1.15	14.5	4.75E+03	3.93
PCB-15 44'-DiCB	20.39		1.0008	1.0006	-0.2	1.41E+06	1.65	1.19	108	4.75E+03	3.81
PCB-19 22'6-TrCB	17.74		1.0010	1.0011	+0.1	7.86E+05	1.06	1.05	134	2.85E+03	4.6
PCB-30/18 246/22'5-TrCB	19.52	C	1.1013	1.1019	+0.7	8.84E+06	1.07	1.34	1,180	2.85E+03	3.59
PCB-17 22'4-TrCB	19.92		1.1242	1.1243	+0.1	2.67E+06	1.05	1.15	417	2.85E+03	4.21
PCB-27 23'6-TrCB	20.11		1.1352	1.1354	+0.2	5.66E+05	0.99	1.55	65.3	2.85E+03	3.11
PCB-24 236-TrCB	20.23	J	1.1429	1.1420	-1.1	5.15E+04	0.93	1.52	6.04	2.85E+03	3.17
PCB-16 22'3-TrCB	20.34		1.1485	1.1484	-0.1	1.96E+06	1.02	0.82	429	2.85E+03	5.91

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.83		1.1756	1.1758	+0.2	3.29E+06	1.01	1.67	353	2.85E+03	2.9
PCB-34 23'5'-TrCB	21.98	J	0.8222	0.8216	-0.8	6.60E+04	0.97	1.44	5.42	4.21E+03	3.75
PCB-23 235-TrCB	NotFnd		0.8278	-		0.00E+00		1.44	ND	4.21E+03	3.77
PCB-26/29 23'5'/245-TrCB	22.40	C	0.8386	0.8375	-1.5	2.10E+06	1.11	1.47	170	4.21E+03	3.68
PCB-25 23'4-TrCB	22.63		0.8461	0.8459	-0.3	8.30E+05	1.15	1.45	67.8	4.21E+03	3.73
PCB-31 24'5-TrCB	22.91		0.8565	0.8564	-0.1	1.44E+07	1.08	1.52	1,120	4.21E+03	3.55
PCB-28/20 244'/233'-TrCB	23.18	C	0.8673	0.8667	-0.8	1.29E+07	1.03	1.42	1,070	4.21E+03	3.81
PCB-21/33 234/23'4'-TrCB	23.40	C	0.8741	0.8748	+1.0	4.67E+06	1.07	1.47	376	4.21E+03	3.67
PCB-22 234'-TrCB	23.76		0.8882	0.8881	-0.1	3.23E+06	1.08	1.36	281	4.21E+03	3.96
PCB-36 33'5-TrCB	NotFnd		0.9402	-		0.00E+00		1.50	ND	4.21E+03	3.6
PCB-39 34'5-TrCB	NotFnd		0.9523	-		0.00E+00		1.50	ND	4.21E+03	3.61
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.36	ND	4.21E+03	3.99
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.27	ND	4.21E+03	4.25
PCB-37 344'-TrCB	26.77		1.0007	1.0008	+0.2	1.93E+06	1.06	1.32	173	4.21E+03	4.08
PCB-54 22'66'-TeCB	20.68	J EMPC	1.0010	1.0011	+0.1	5.07E+04	0.62	1.02	5.6	2.22E+03	2.62
PCB-50/53 22'46/22'56'-TeCB	22.66	C	0.9147	0.9137	-1.4	2.09E+06	0.79	0.94	300	2.36E+03	3.62
PCB-45 22'36-TeCB	23.28		0.9385	0.9386	+0.1	1.83E+06	0.80	0.82	303	2.36E+03	4.16
PCB-51 22'46'-TeCB	23.35		0.9415	0.9417	+0.3	6.66E+05	0.77	0.93	96.2	2.36E+03	3.64
PCB-46 22'36'-TeCB	23.56		0.9501	0.9500	-0.1	6.44E+05	0.72	0.77	113	2.36E+03	4.4
PCB-52 22'55'-TeCB	24.82		1.0009	1.0009	0	1.41E+07	0.77	0.88	2,160	2.36E+03	3.84
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	2.36E+03	2.76
PCB-43 22'35-TeCB	25.04		1.0101	1.0099	-0.3	2.96E+05	0.77	0.72	55.7	2.36E+03	4.74
PCB-69/49 23'46/22'45'-TeCB	25.27	C	1.0180	1.0188	+1.2	8.64E+06	0.80	1.08	1,080	2.36E+03	3.14
PCB-48 22'45-TeCB	25.53		1.0294	1.0294	0	2.07E+06	0.78	0.89	312	2.36E+03	3.8
PCB-44/47/65 ...-TeCB	25.72	C	1.0382	1.0373	-1.4	1.24E+07	0.78	0.96	1,740	2.36E+03	3.53
PCB-59/62/75 ...-TeCB	26.02	C	1.0494	1.0491	-0.5	1.14E+06	0.77	1.23	124	2.36E+03	2.75
PCB-42 22'34'-TeCB	26.19		1.0562	1.0562	0	2.55E+06	0.80	0.80	427	2.36E+03	4.22
PCB-41 22'34-TeCB	26.52		1.0697	1.0694	-0.5	4.50E+05	0.77	0.73	82.9	2.36E+03	4.65
PCB-71/40 23'4'6/22'33'-TeCB	26.62	C	1.0736	1.0736	0	5.06E+06	0.77	0.92	743	2.36E+03	3.7
PCB-64 234'6-TeCB	26.83		1.0816	1.0817	+0.2	6.61E+06	0.79	1.31	681	2.36E+03	2.59
PCB-72 23'55'-TeCB	NotFnd		0.8441	-		0.00E+00		1.45	ND	3.96E+03	3.94
PCB-68 23'45'-TeCB	NotFnd		0.8519	-		0.00E+00		1.56	ND	3.96E+03	3.64
PCB-57 233'5-TeCB	28.18	J EMPC	0.8634	0.8633	-0.2	4.85E+04	0.99	1.41	4.63	3.96E+03	4.04
PCB-58 233'5'-TeCB	NotFnd		0.8697	-		0.00E+00		1.44	ND	3.96E+03	3.95
PCB-67 23'45-TeCB	28.54		0.8745	0.8743	-0.3	3.01E+05	0.82	1.49	27.2	3.96E+03	3.82
PCB-63 234'5-TeCB	28.77		0.8815	0.8814	-0.2	4.60E+05	0.86	1.58	39.3	3.96E+03	3.61
PCB-61/70/74/76 ...-TeCB	29.07	C	0.8904	0.8906	+0.3	2.38E+07	0.79	1.45	2,210	3.96E+03	3.93
PCB-66 23'44'-TeCB	29.35		0.8991	0.8990	-0.2	1.35E+07	0.78	1.39	1,300	3.96E+03	4.09
PCB-55 233'4-TeCB	29.49	EMPC	0.9037	0.9035	-0.4	1.09E+05	0.90	1.35	10.8	3.96E+03	4.21
PCB-56 233'4'-TeCB	29.94		0.9172	0.9171	-0.2	5.78E+06	0.78	1.34	582	3.96E+03	4.26
PCB-60 2344'-TeCB	30.13		0.9231	0.9230	-0.2	2.46E+06	0.77	1.36	242	3.96E+03	4.17
PCB-80 33'55'-TeCB	NotFnd		0.9331	-		0.00E+00		1.60	ND	3.96E+03	3.57
PCB-79 33'45'-TeCB	NotFnd		0.9739	-		0.00E+00		1.59	ND	3.96E+03	3.58
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.30	ND	3.96E+03	4.37
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.02	ND	2.06E+03	2.53
PCB-96 22'366'-PeCB	26.02		1.0134	1.0134	0	1.23E+05	0.55	0.90	16.4	2.06E+03	2.87
PCB-103 22'45'6-PeCB	27.72	J EMPC	0.8992	0.8991	-0.2	5.27E+04	0.78	0.94	8.84	2.57E+03	4.41
PCB-94 22'356'-PeCB	NotFnd		0.9054	-		0.00E+00		0.81	ND	2.57E+03	5.1

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.30		0.9179	0.9178	-0.2	3.56E+06	0.62	0.87	643	2.57E+03	4.75
PCB-100/93 22'44'6/22'356-PeCB	28.51	J C	0.9247	0.9246	-0.2	8.86E+04	0.60	0.86	16.1	2.57E+03	4.78
PCB-102 22'456'-PeCB	28.62		0.9283	0.9284	+0.2	2.62E+05	0.63	0.96	43.1	2.57E+03	4.32
PCB-98 22'34'6'-PeCB	NotFnd		0.9307	-		0.00E+00		0.83	ND	2.57E+03	5
PCB-88 22'346-PeCB	NotFnd		0.9405	-		0.00E+00		0.84	ND	2.57E+03	4.92
PCB-91 22'34'6-PeCB	29.06		0.9426	0.9426	0	9.34E+05	0.59	0.92	160	2.57E+03	4.5
PCB-84 22'33'6-PeCB	29.26		0.9490	0.9490	0	1.24E+06	0.60	0.74	263	2.57E+03	5.59
PCB-89 22'346'-PeCB	29.67		0.9626	0.9625	-0.2	1.03E+05	0.53	0.78	20.7	2.57E+03	5.27
PCB-121 23'45'6-PeCB	NotFnd		0.9737	-		0.00E+00		1.19	ND	2.57E+03	3.47
PCB-92 22'355'-PeCB	30.34		0.9841	0.9841	0	6.15E+05	0.60	0.82	118	2.57E+03	5.04
PCB-113/90/101 ...-PeCB	30.85	C	0.9999	1.0008	+1.7	4.39E+06	0.65	0.96	715	2.57E+03	4.28
PCB-83 22'33'5-PeCB	31.26		1.0141	1.0139	-0.4	1.55E+05	0.61	0.68	36	2.57E+03	6.09
PCB-99 22'44'5-PeCB	31.36		1.0172	1.0172	0	2.66E+06	0.61	0.97	433	2.57E+03	4.27
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.14	ND	2.57E+03	3.63
PCB-108/119/86/97/125...-PeCB	31.84	C	1.0319	1.0328	+1.7	3.54E+06	0.61	0.98	565	2.57E+03	4.2
PCB-117 234'56-PeCB	NotFnd		1.0492	-		0.00E+00		1.07	ND	2.57E+03	3.86
PCB-116/85 23456/22'344'-PeCB	32.42	C	1.0522	1.0516	-1.2	1.16E+06	0.59	0.99	183	2.57E+03	4.15
PCB-110 233'4'6-PeCB	32.56		1.0560	1.0562	+0.4	6.27E+06	0.60	1.05	940	2.57E+03	3.94
PCB-115 2344'6-PeCB	NotFnd		1.0588	-		0.00E+00		1.18	ND	2.57E+03	3.5
PCB-82 22'33'4-PeCB	32.85		1.0653	1.0654	+0.2	5.59E+05	0.58	0.71	124	2.57E+03	5.84
PCB-111 233'55'-PeCB	NotFnd		1.0754	-		0.00E+00		1.20	ND	2.57E+03	3.45
PCB-120 23'455'-PeCB	NotFnd		1.0884	-		0.00E+00		1.19	ND	2.57E+03	3.47
PCB-107/124 ...-PeCB	34.54	C	0.9916	0.9918	+0.4	1.76E+05	0.59	1.09	25.3	2.57E+03	3.77
PCB-109 233'46-PeCB	34.75		0.9975	0.9977	+0.4	3.40E+05	0.59	1.14	47.1	2.57E+03	3.64
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.06	ND	2.57E+03	3.9
PCB-122 233'4'5'-PeCB	35.43	J	1.0091	1.0091	0	6.13E+04	0.55	0.99	9.52	2.57E+03	4.07
PCB-127 33'455'-PeCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	2.57E+03	3.92
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	2.30E+03	2.79
PCB-152 22'3566'-HxCB	NotFnd		1.0061	-		0.00E+00		1.02	ND	2.30E+03	3.02
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.02	ND	2.30E+03	3.02
PCB-136 22'33'66'-HxCB	31.30		1.0208	1.0208	0	4.20E+05	1.33	0.95	55.8	2.30E+03	3.25
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		0.98	ND	2.30E+03	3.15
PCB-148 22'34'56'-HxCB	NotFnd		1.0713	-		0.00E+00		1.05	ND	2.30E+03	4.06
PCB-151/135 ...-HxCB	33.37	C	1.0884	1.0883	-0.2	6.66E+05	1.31	1.02	113	2.30E+03	4.17
PCB-154 22'44'56'-HxCB	33.57	J EMPC	1.0952	1.0950	-0.4	4.70E+04	1.72	1.17	6.98	2.30E+03	3.65
PCB-144 22'345'6-HxCB	33.84	EMPC	1.1038	1.1039	+0.2	8.67E+04	1.03	1.05	14.3	2.30E+03	4.07
PCB-147/149 ...-HxCB	34.15	C	1.1137	1.1138	+0.2	1.77E+06	1.27	1.05	292	2.30E+03	4.06
PCB-134 22'33'56-HxCB	34.33	EMPC	1.1196	1.1197	+0.2	1.14E+05	1.06	0.89	22.2	2.30E+03	4.79
PCB-143 22'3456'-HxCB	NotFnd		1.1222	-		0.00E+00		0.96	ND	2.30E+03	4.44
PCB-139/140 ...-HxCB	34.67	J C	1.1308	1.1308	0	5.58E+04	1.24	1.06	9.07	2.30E+03	4
PCB-131 22'33'46-HxCB	34.85	J	1.1365	1.1368	+0.6	3.59E+04	1.24	0.92	6.77	2.30E+03	4.65
PCB-142 22'3456-HxCB	NotFnd		1.1412	-		0.00E+00		0.92	ND	2.30E+03	4.63
PCB-132 22'33'46'-HxCB	35.23		1.1489	1.1492	+0.6	6.77E+05	1.29	0.93	125	2.30E+03	4.56
PCB-133 22'33'55'-HxCB	35.63	J	1.1621	1.1623	+0.4	3.73E+04	1.31	0.97	6.63	2.30E+03	4.38
PCB-165 233'55'6-HxCB	NotFnd		0.9526	-		0.00E+00		1.22	ND	2.30E+03	3.48
PCB-146 22'34'55'-HxCB	36.19		0.9583	0.9583	0	3.71E+05	1.16	1.07	60.2	2.30E+03	3.99
PCB-161 233'45'6-HxCB	NotFnd		0.9615	-		0.00E+00		1.32	ND	2.30E+03	3.22
PCB-153/168 ...-HxCB	36.72	C	0.9729	0.9723	-1.3	2.16E+06	1.26	1.26	298	2.30E+03	3.39

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.89		0.9767	0.9768	+0.2	3.29E+05	1.21	1.00	56.9	2.30E+03	4.25
PCB-130 22'33'45'-HxCB	37.24		0.9859	0.9860	+0.2	1.55E+05	1.39	0.88	30.7	2.30E+03	4.87
PCB-137 22'344'5-HxCB	37.43	EMPC	0.9911	0.9911	0	9.70E+04	1.04	1.00	16.8	2.30E+03	4.27
PCB-164 233'4'5'6-HxCB	37.52		0.9933	0.9934	+0.2	2.19E+05	1.13	1.36	27.9	2.30E+03	3.13
PCB-163/138/129 ...-HxCB	37.79	C	1.0011	1.0007	-0.9	2.45E+06	1.23	1.06	398	2.30E+03	4.01
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.24	ND	2.30E+03	3.44
PCB-158 233'44'6-HxCB	38.13		1.0096	1.0095	-0.2	3.07E+05	1.26	1.36	39.2	2.30E+03	3.14
PCB-128/166 ...-HxCB	38.88	C	0.9642	0.9644	+0.5	3.22E+05	1.30	0.95	56	1.72E+03	3.08
PCB-159 233'455'-HxCB	NotFnd		0.9845	-		0.00E+00		1.12	ND	1.72E+03	2.63
PCB-162 233'4'55'-HxCB	NotFnd		0.9904	-		0.00E+00		1.12	ND	1.72E+03	2.62
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.10	ND	1.62E+03	1.94
PCB-179 22'33'566'-HpCB	35.87		1.0087	1.0086	-0.2	2.80E+05	1.07	1.03	34.1	1.62E+03	2.06
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		0.99	ND	1.62E+03	2.14
PCB-176 22'33'466'-HpCB	36.63	J	1.0299	1.0299	0	7.90E+04	0.99	1.12	8.95	1.62E+03	1.91
PCB-186 22'34566'-HpCB	NotFnd		1.0412	-		0.00E+00		1.04	ND	1.62E+03	2.05
PCB-178 22'33'55'6-HpCB	38.17		1.0730	1.0732	+0.5	1.21E+05	1.13	0.77	20.1	1.62E+03	2.78
PCB-175 22'33'45'6-HpCB	NotFnd		1.0884	-		0.00E+00		1.04	ND	2.19E+03	4.59
PCB-187 22'34'55'6-HpCB	38.94		1.0948	1.0949	+0.2	4.76E+05	1.02	1.10	84.5	2.19E+03	4.34
PCB-182 22'344'56'-HpCB	NotFnd		1.0999	-		0.00E+00		1.13	ND	2.19E+03	4.25
PCB-183 22'344'5'6-HpCB	39.47		1.1096	1.1097	+0.2	2.36E+05	0.95	1.14	40.5	2.19E+03	4.19
PCB-185 22'3455'6-HpCB	NotFnd		1.1121	-		0.00E+00		1.08	ND	2.19E+03	4.42
PCB-174 22'33'456'-HpCB	39.66		1.1152	1.1152	0	2.99E+05	1.02	0.92	63.5	2.19E+03	5.19
PCB-177 22'33'45'6'-HpCB	40.04		1.1257	1.1258	+0.2	1.79E+05	1.12	0.93	37.8	2.19E+03	5.17
PCB-181 22'344'56-HpCB	NotFnd		1.1355	-		0.00E+00		1.05	ND	2.19E+03	4.58
PCB-171/173 ...-HpCB	40.58	J C	1.1407	1.1411	+1.0	8.94E+04	0.89	0.93	18.8	2.19E+03	5.14
PCB-172 22'33'455'-HpCB	41.93	EMPC	0.9083	0.9083	0	5.13E+04	0.84	0.93	10.8	2.19E+03	5.16
PCB-192 233'455'6-HpCB	NotFnd		0.9137	-		0.00E+00		1.20	ND	2.19E+03	4
PCB-180/193 ...-HpCB	42.48	C	0.9197	0.9203	+1.5	7.91E+05	0.97	1.13	138	2.19E+03	4.26
PCB-191 233'44'5'6-HpCB	NotFnd		0.9269	-		0.00E+00		1.23	ND	2.19E+03	3.91
PCB-170 22'33'44'5-HpCB	43.56		0.9437	0.9436	-0.3	2.92E+05	0.97	1.06	64.7	2.19E+03	5.09
PCB-190 233'44'56-HpCB	44.01		0.9535	0.9534	-0.3	8.08E+04	1.13	1.42	13.4	2.19E+03	3.81
PCB-202 22'33'55'66'-OoCB	40.15	EMPC	1.0005	1.0006	+0.2	1.15E+05	1.06	0.83	19.6	1.46E+03	2.61
PCB-201 22'33'45'66'-OoCB	40.93	J	1.0202	1.0201	-0.2	5.77E+04	0.77	0.90	9.06	1.46E+03	2.41
PCB-204 22'344'566'-OoCB	NotFnd		1.0346	-		0.00E+00		0.84	ND	1.46E+03	2.58
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0394	-		0.00E+00		0.94	ND	1.46E+03	2.3
PCB-200 22'33'4566'-OoCB	NotFnd		1.0417	-		0.00E+00		0.83	ND	1.46E+03	2.61
PCB-198/199 ...-OoCB	44.14	C	1.0997	1.1002	+1.3	2.03E+05	1.02	0.59	48	1.46E+03	3.64
PCB-196 22'33'44'56'-OoCB	44.70		1.1141	1.1141	0	9.93E+04	0.92	0.61	22.9	1.46E+03	3.55
PCB-203 22'344'55'6-OoCB	44.87		1.1184	1.1184	0	1.34E+05	0.87	0.62	30.2	1.46E+03	3.46
PCB-195 22'33'44'56-OoCB	46.00		0.9518	0.9518	0	5.12E+04	0.87	0.93	14.1	2.07E+03	6.09
PCB-194 22'33'44'55'-OoCB	47.95		0.9921	0.9922	+0.3	1.19E+05	0.91	0.95	32	2.07E+03	5.95
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.07E+03	5.09
PCB-208 22'33'455'66'-NoCB	45.79		1.0005	1.0005	0	2.22E+05	0.78	1.01	46.8	2.17E+03	4.75
PCB-207 22'33'44'566'-NoCB	46.58		1.0177	1.0178	+0.3	1.94E+05	0.80	1.05	39.5	2.17E+03	4.57
PCB-206 22'33'44'55'6-NoCB	49.83		1.0004	1.0004	0	1.93E+05	0.89	1.01	62.1	2.17E+03	7.53

SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 51

Acq: 24-Mar-2014 17:38:59  
 User: CTW Datafile: 140324S08



SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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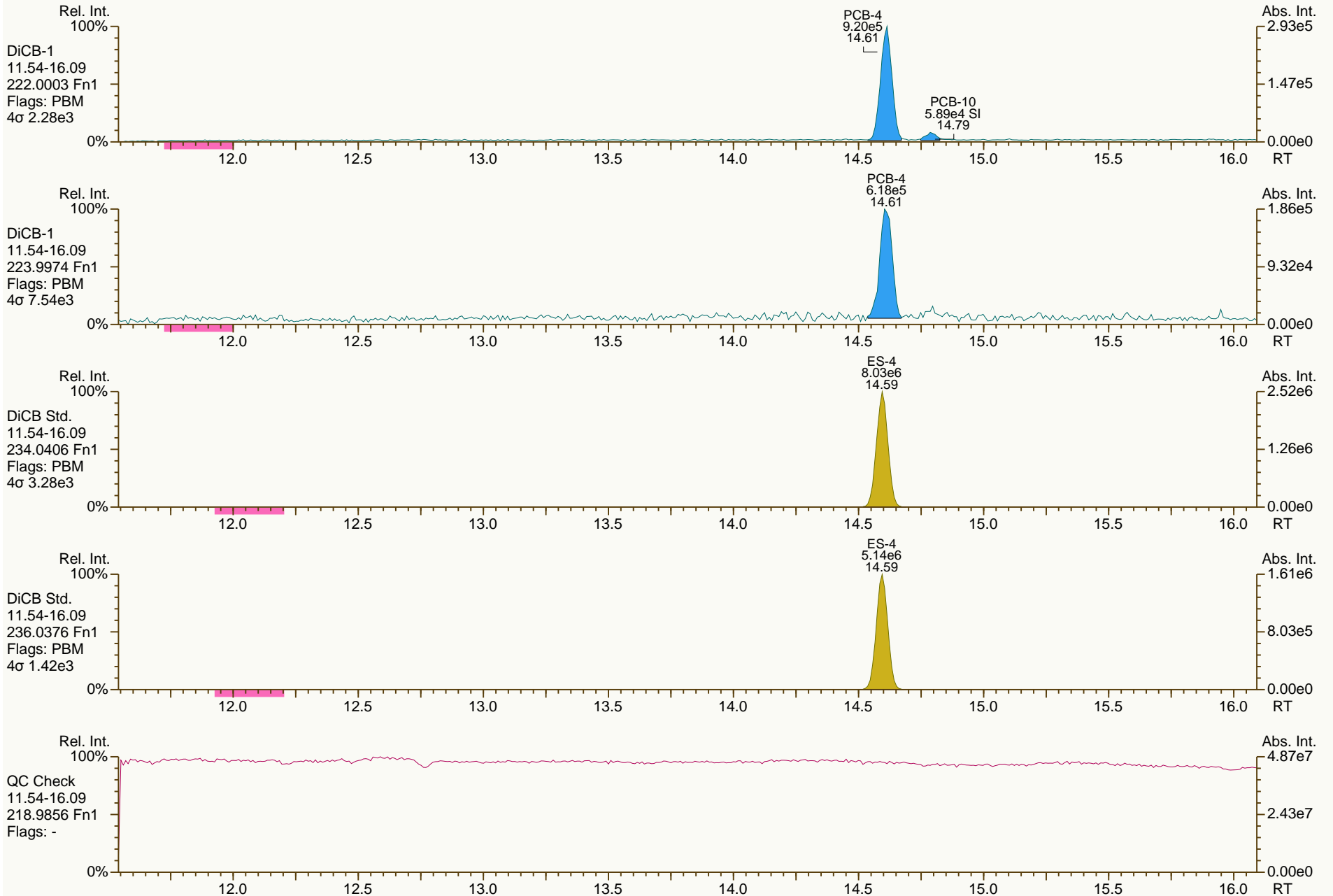
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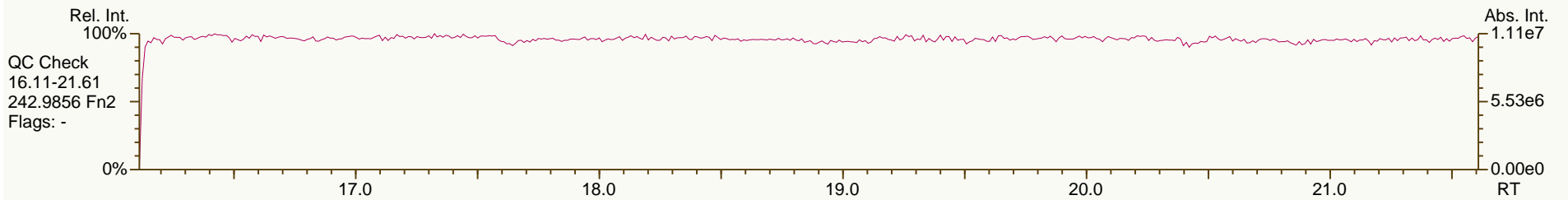
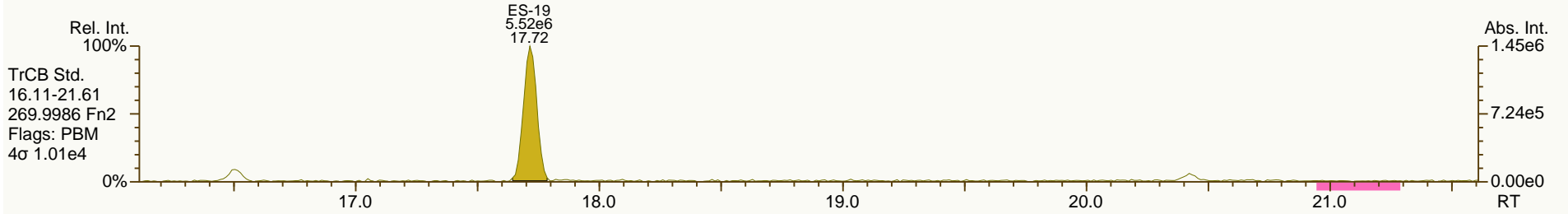
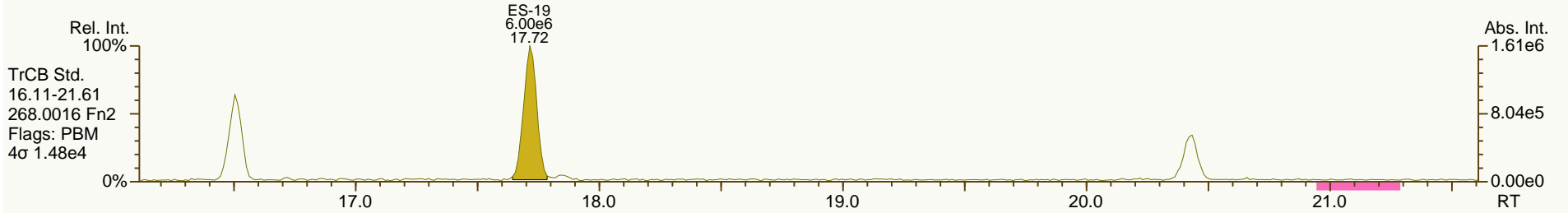
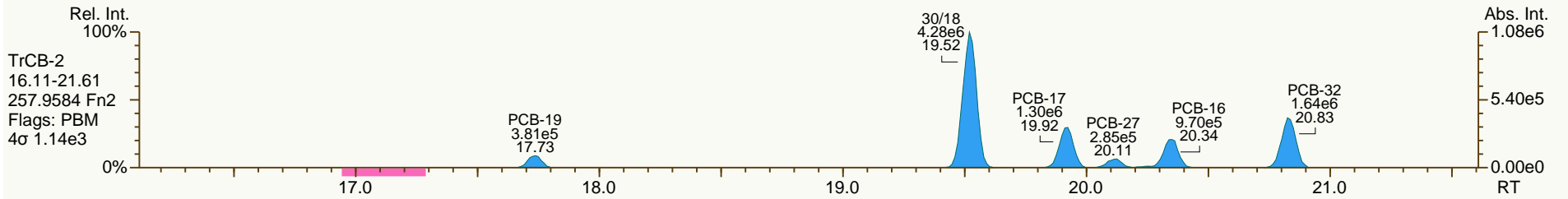
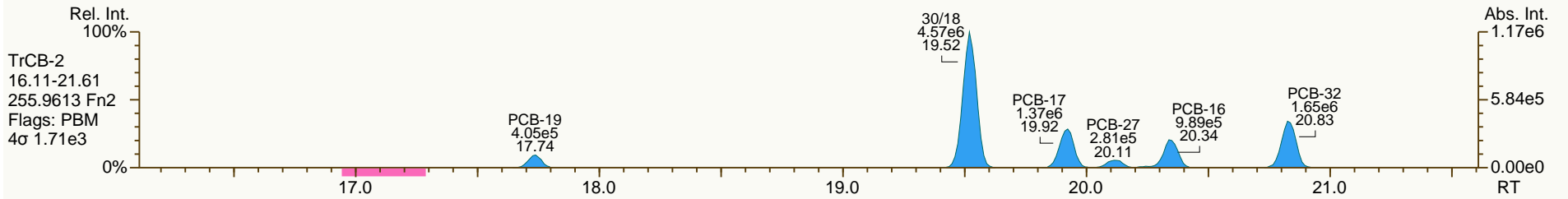
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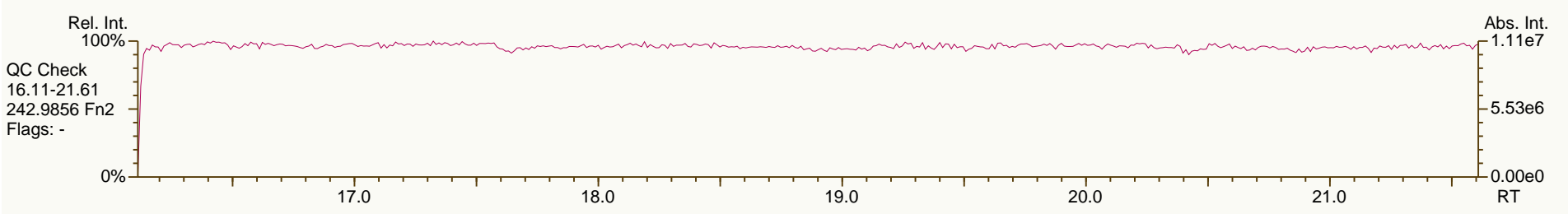
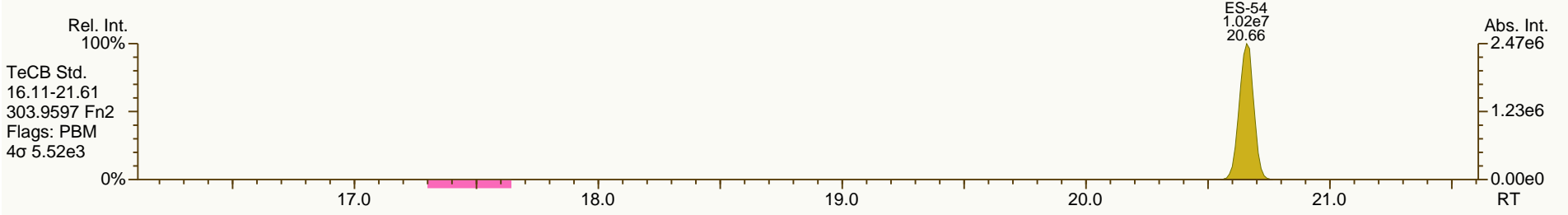
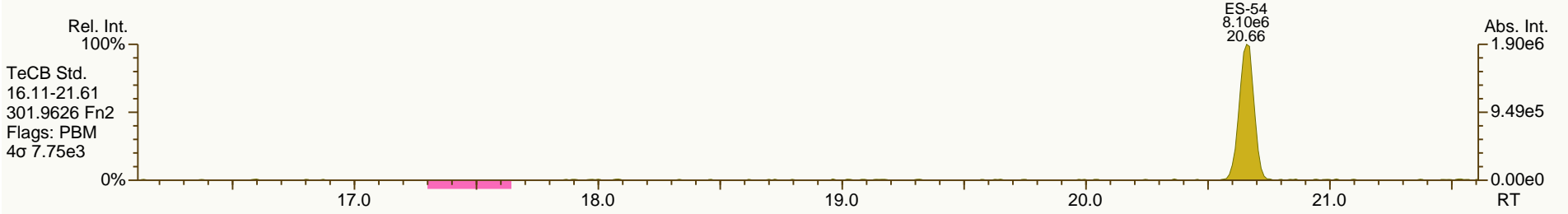
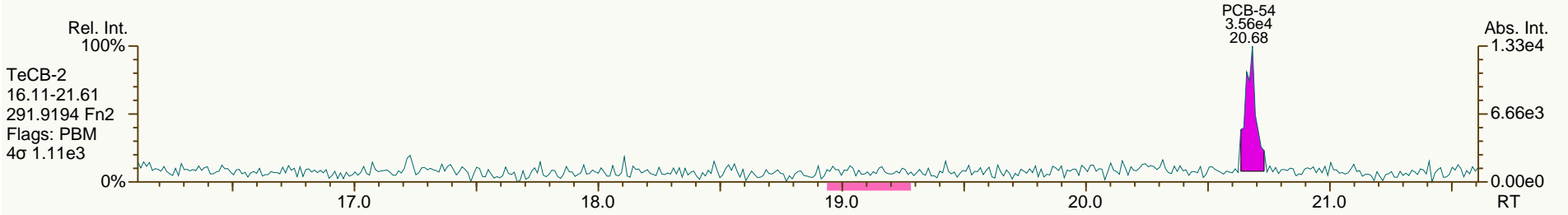
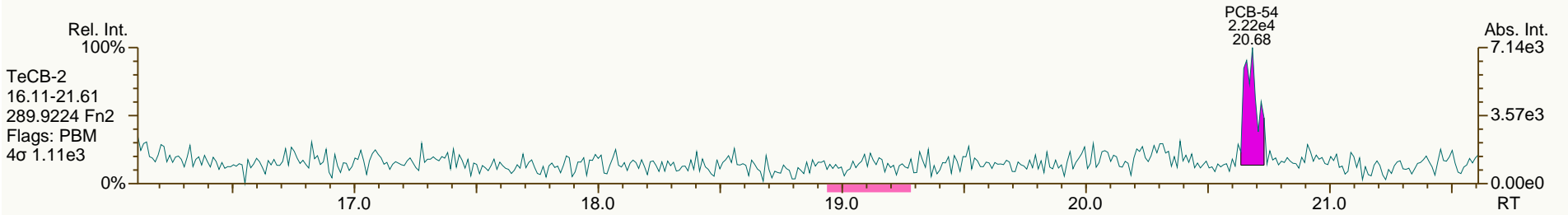
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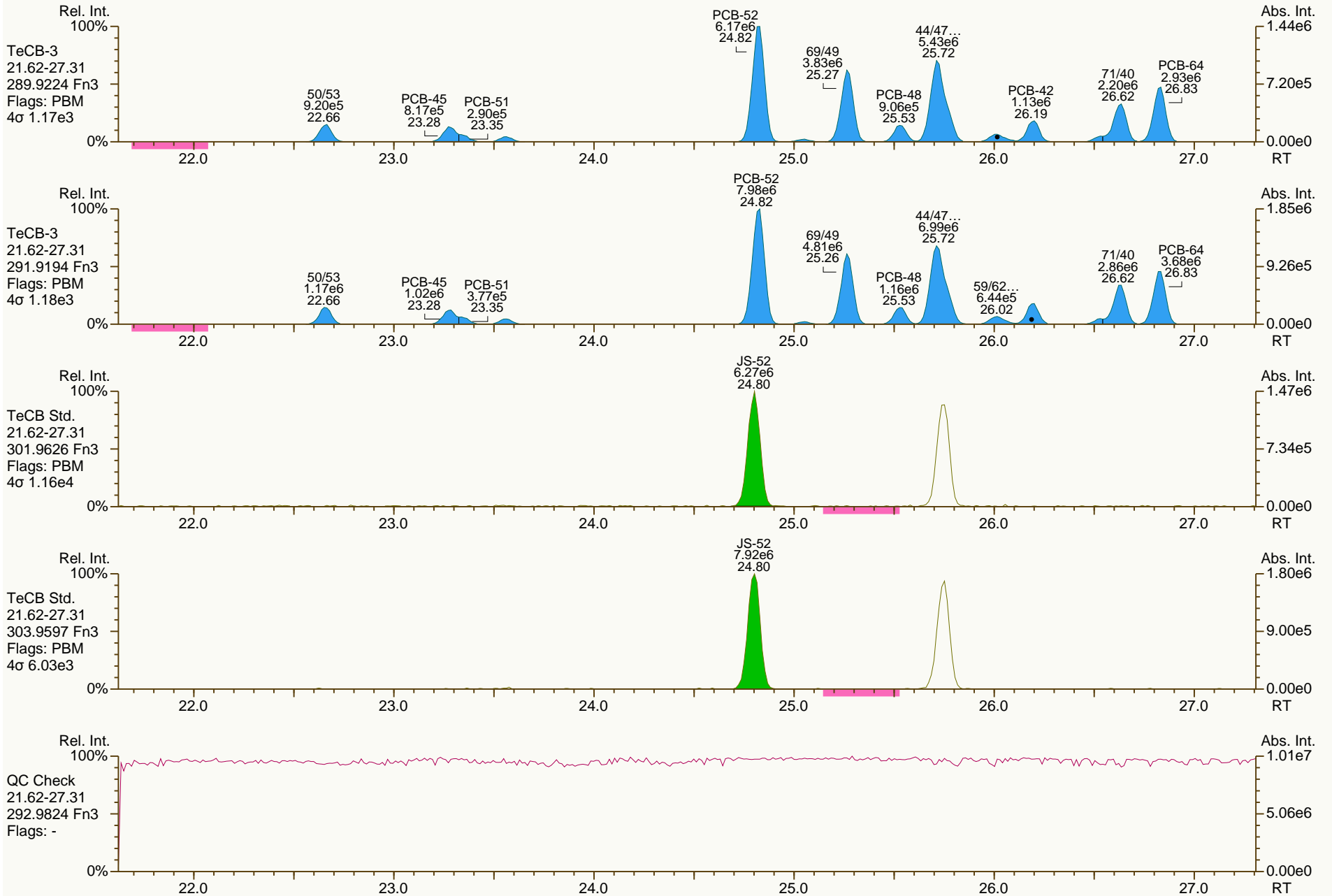
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SGS ID: A6492\_11883\_PCB\_001-RJ  
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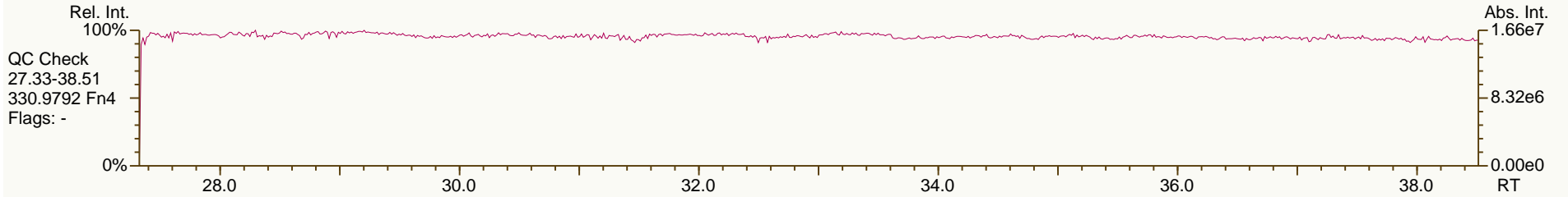
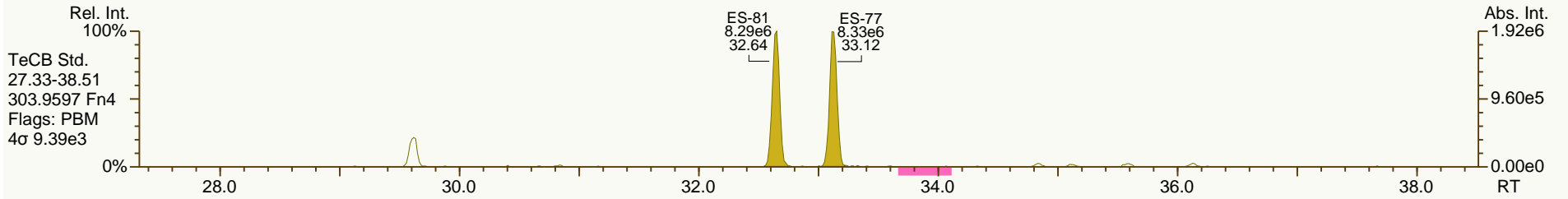
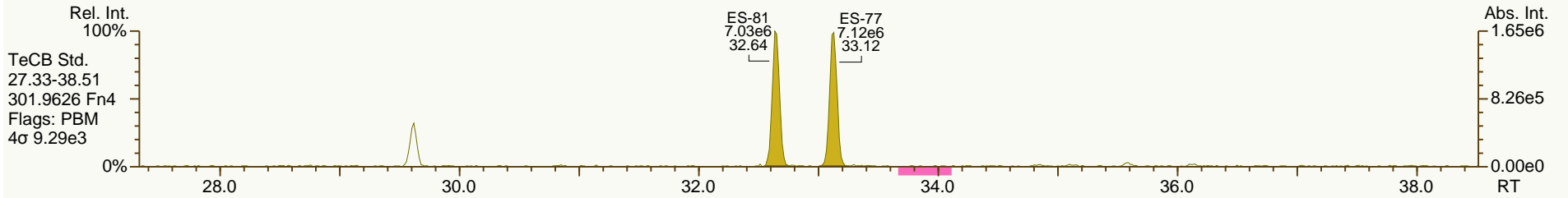
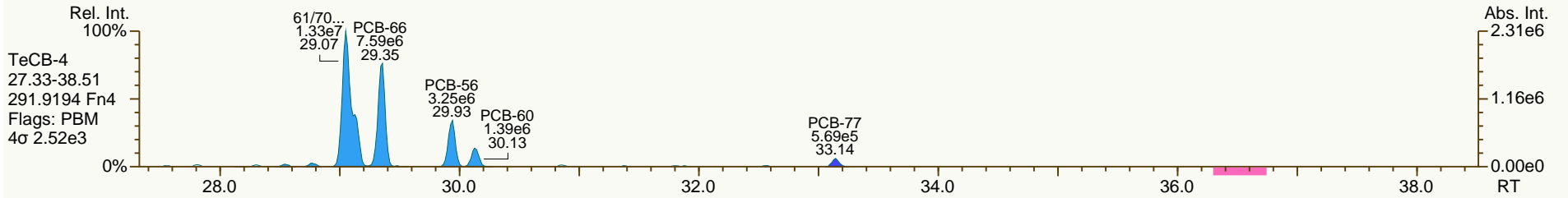
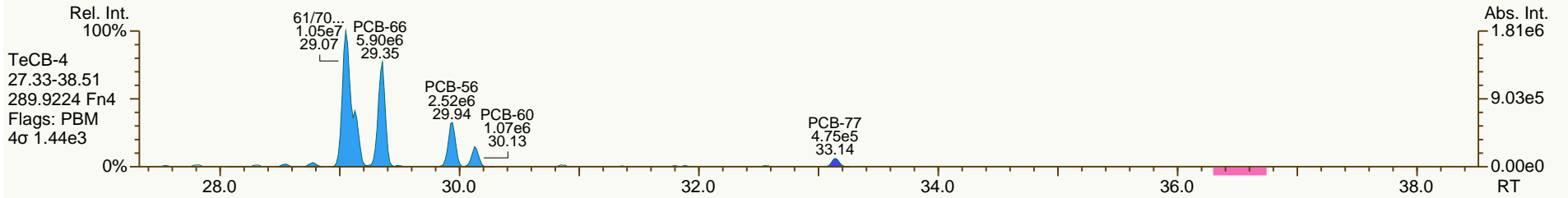
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SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
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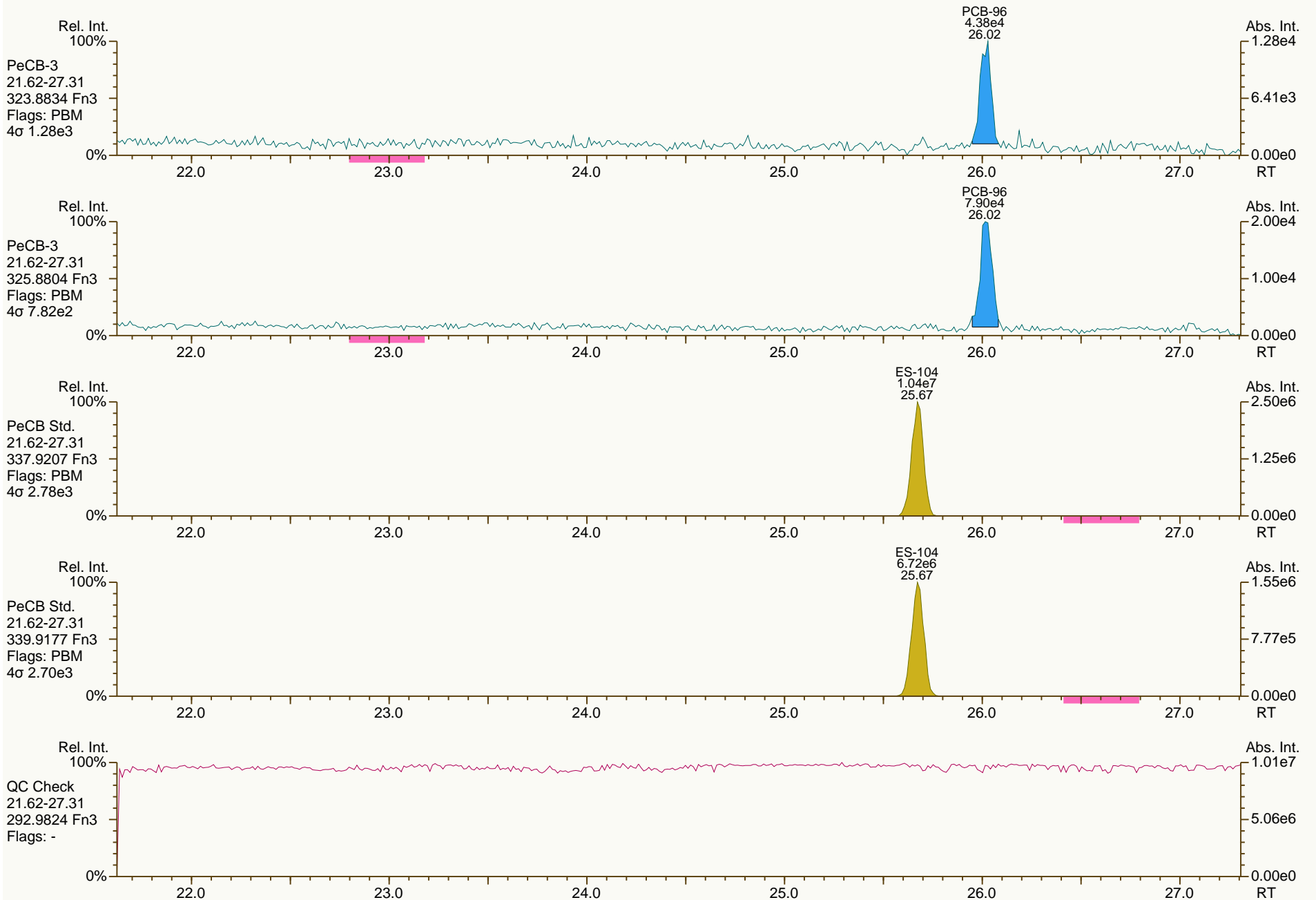
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SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
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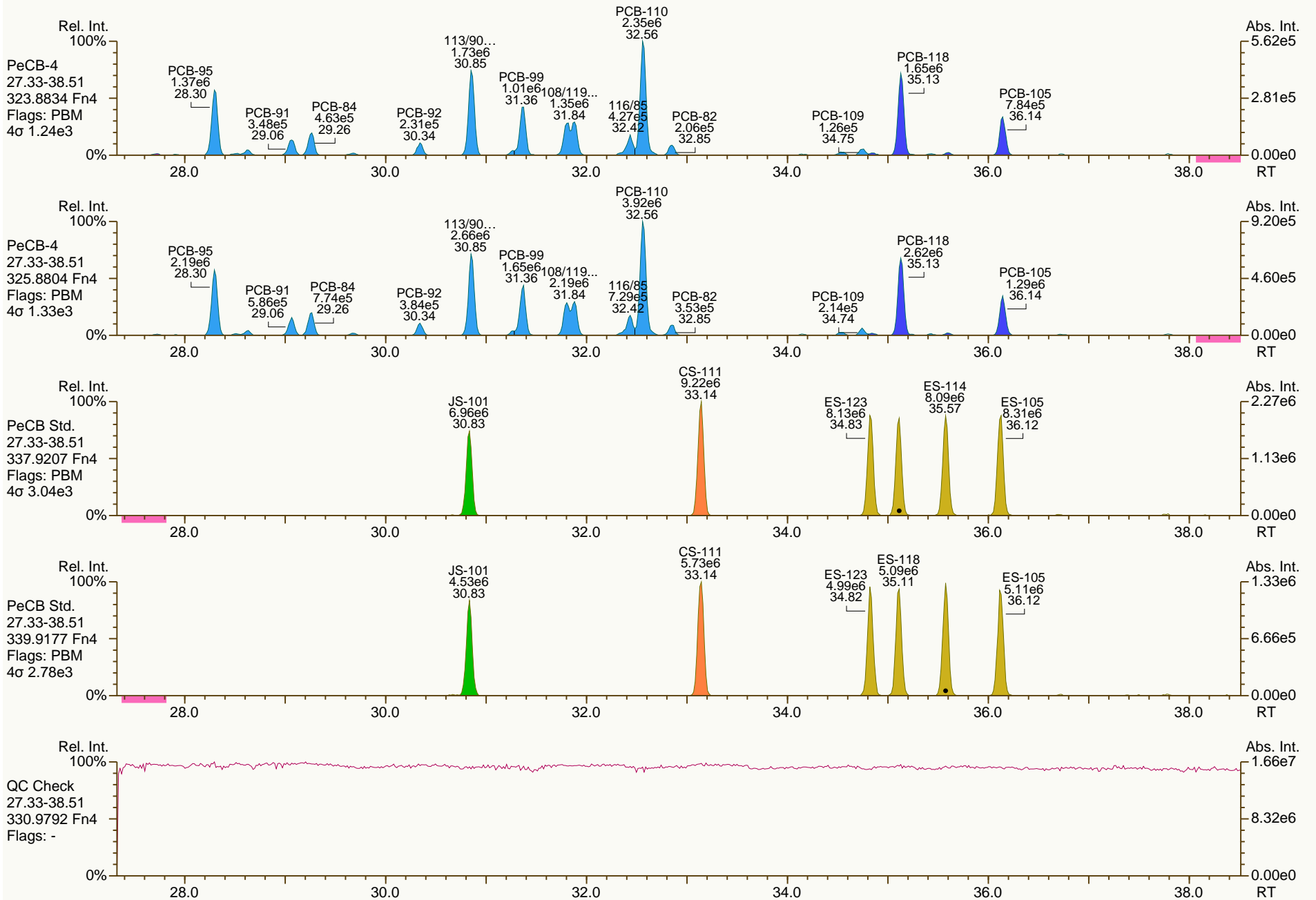
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SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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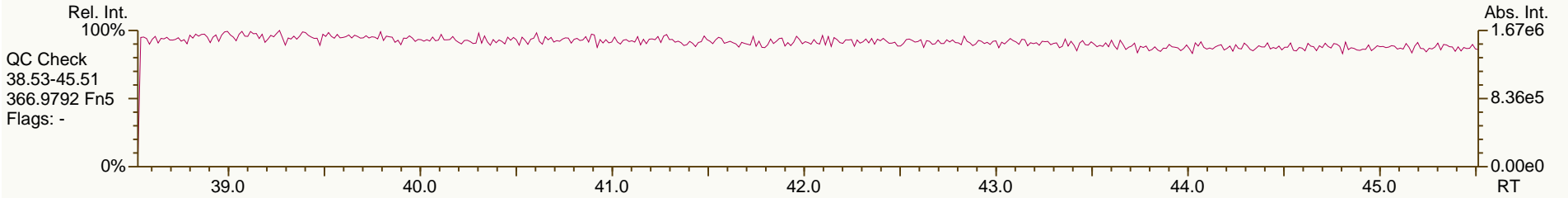
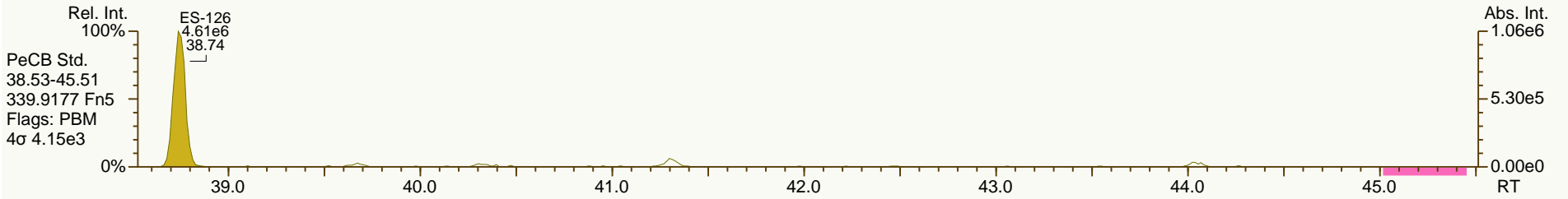
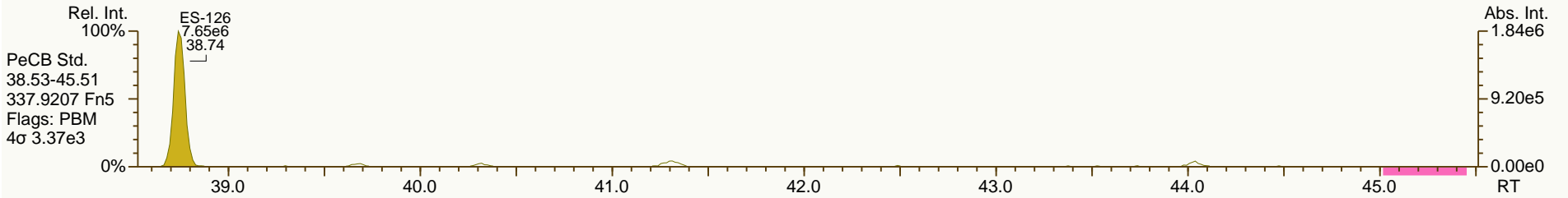
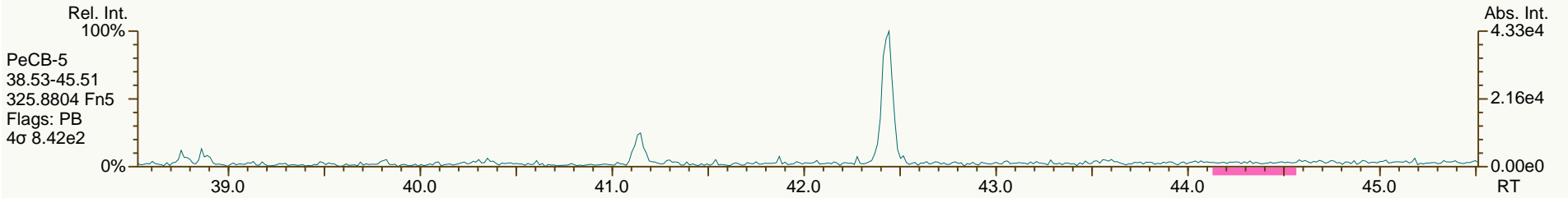
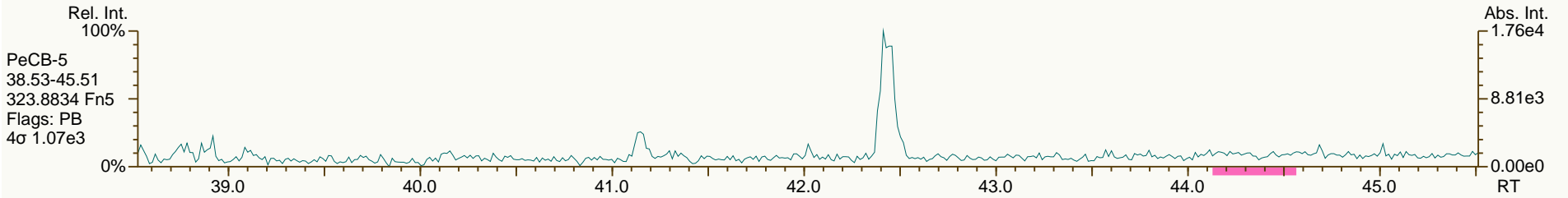




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 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
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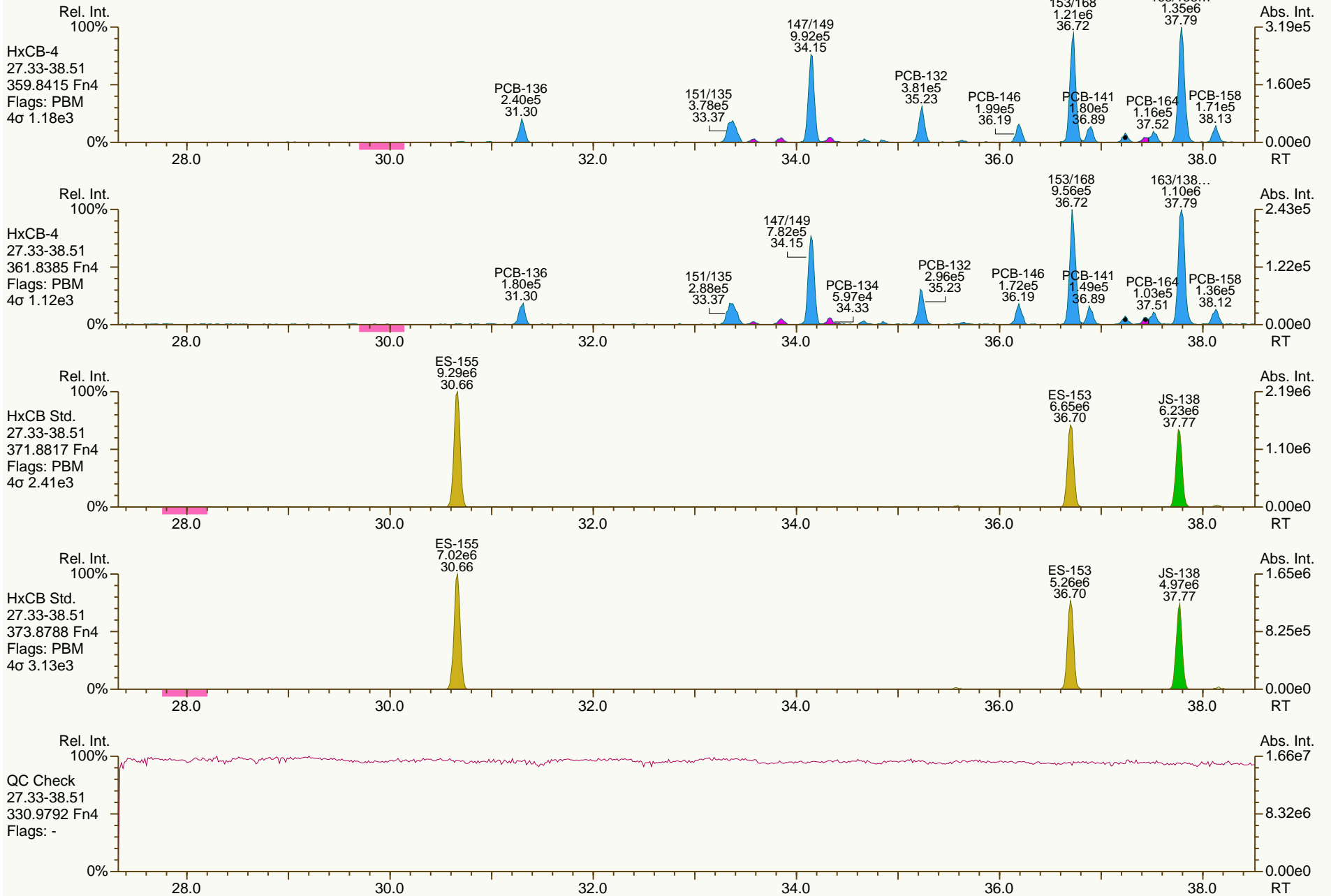
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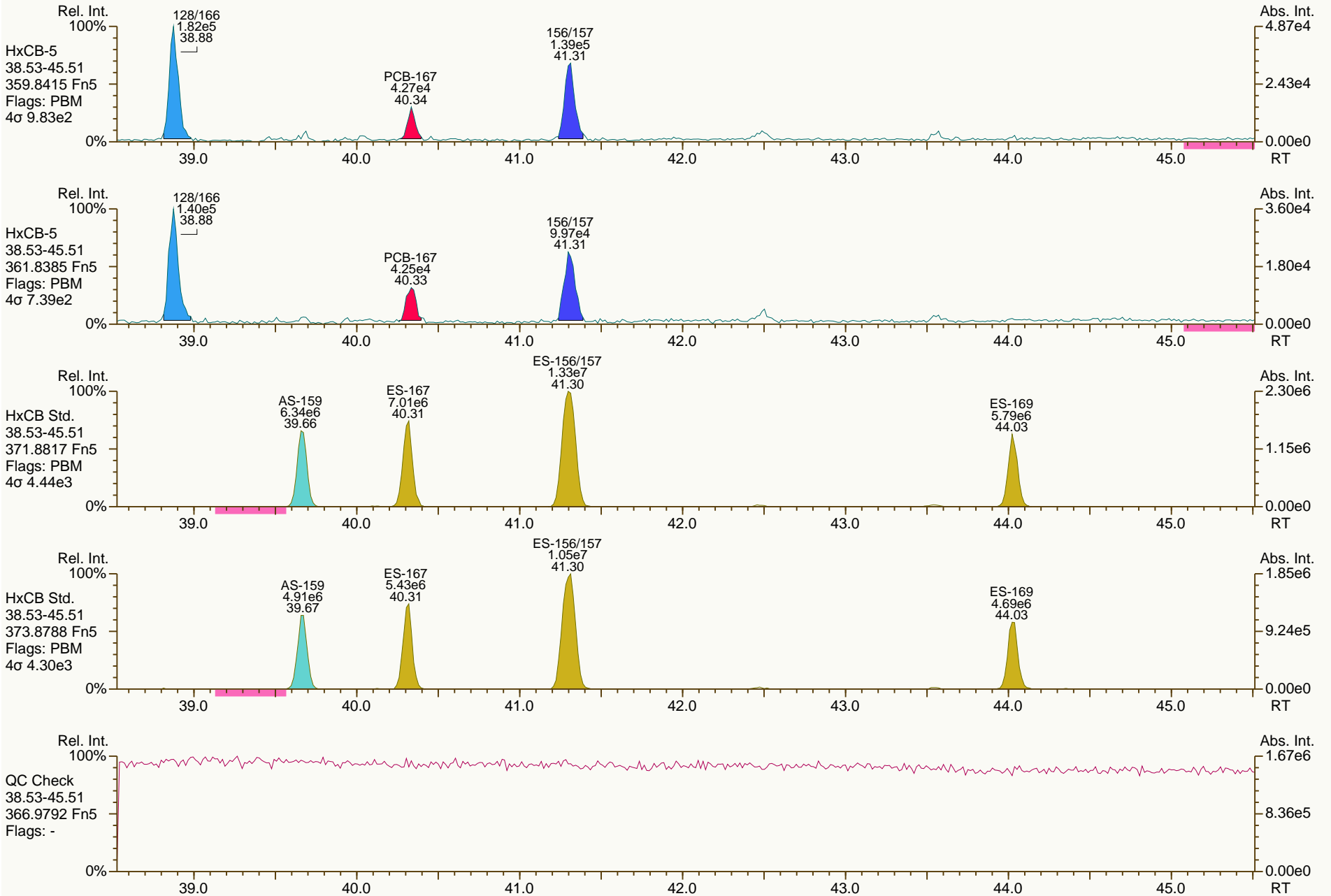
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SGS ID: A6492\_11883\_PCB\_001-RJ  
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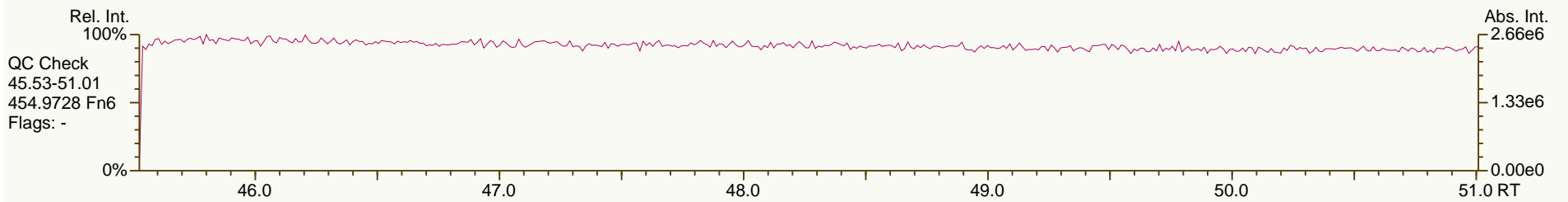
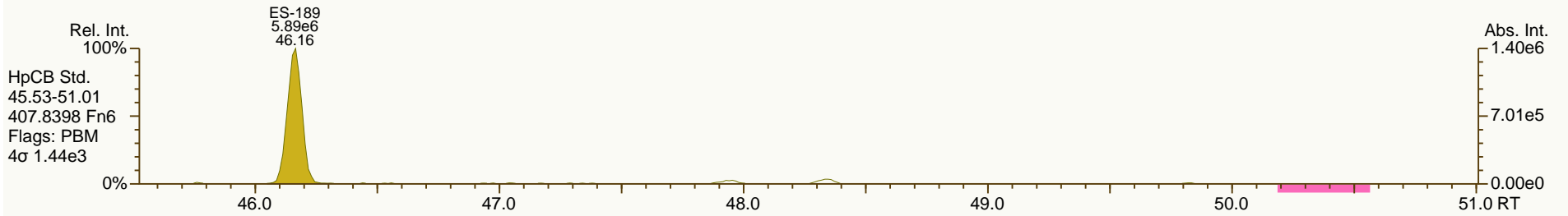
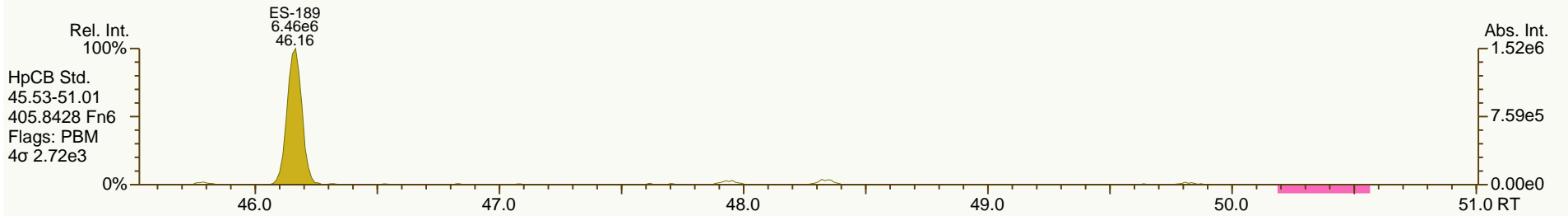
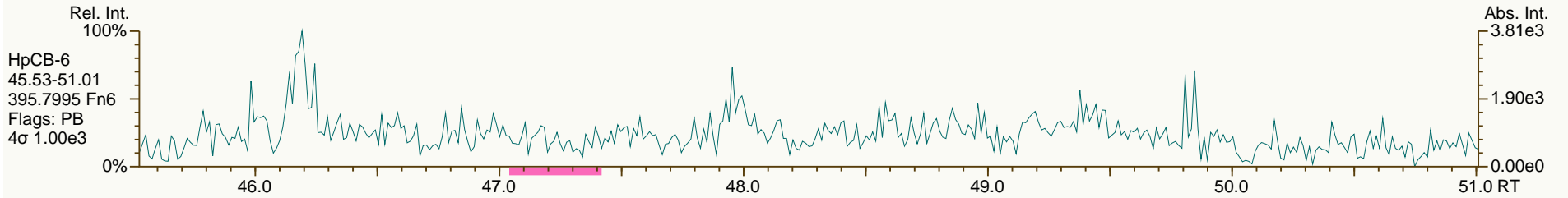
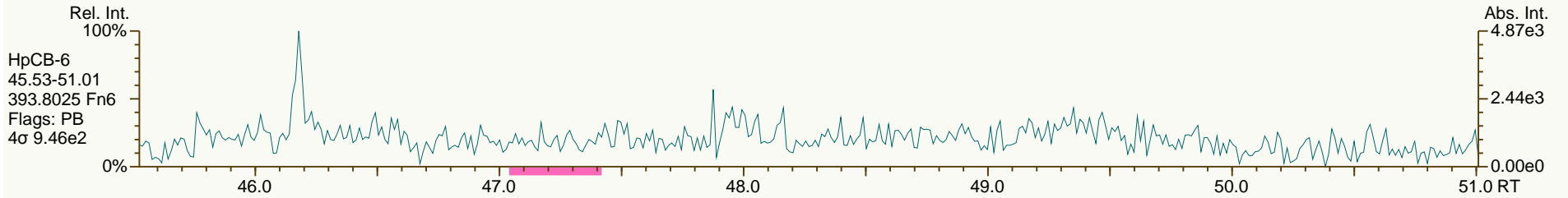
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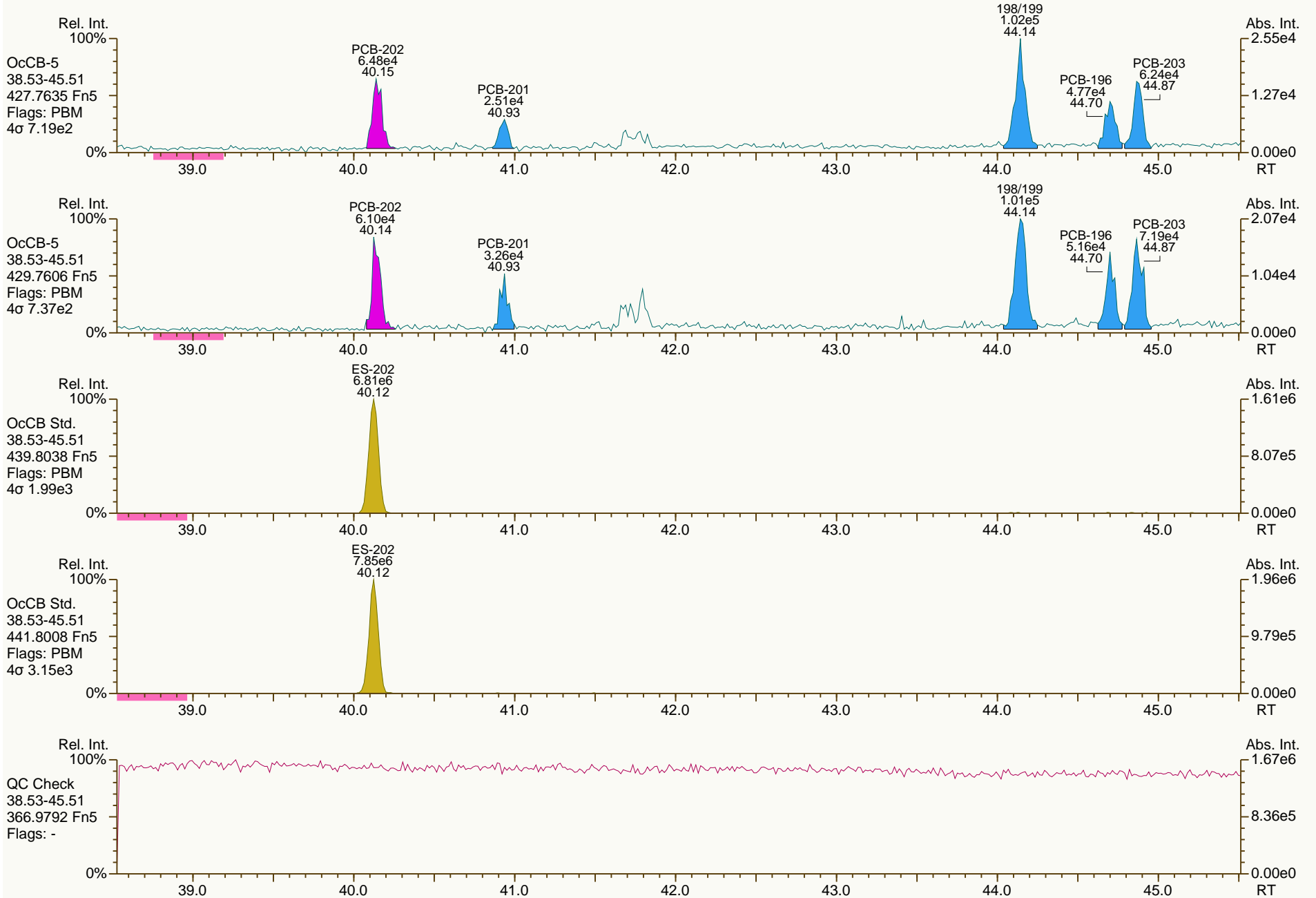
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 User: CTW Datafile: 140324S08



SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 51

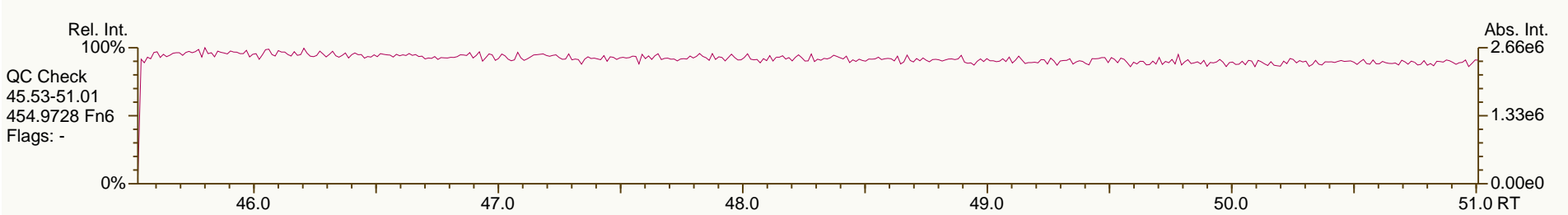
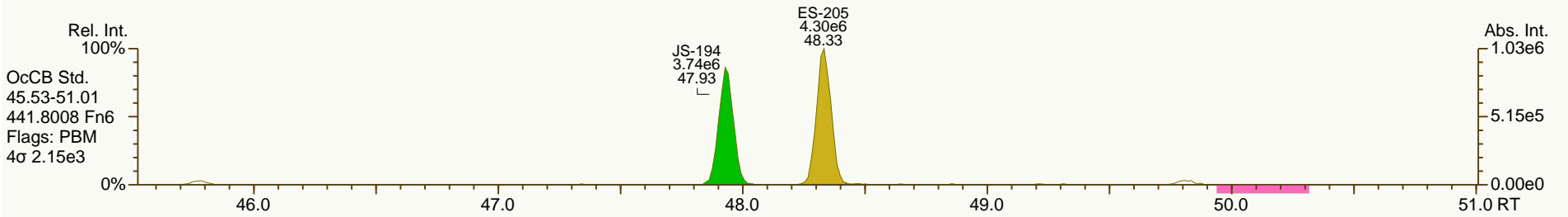
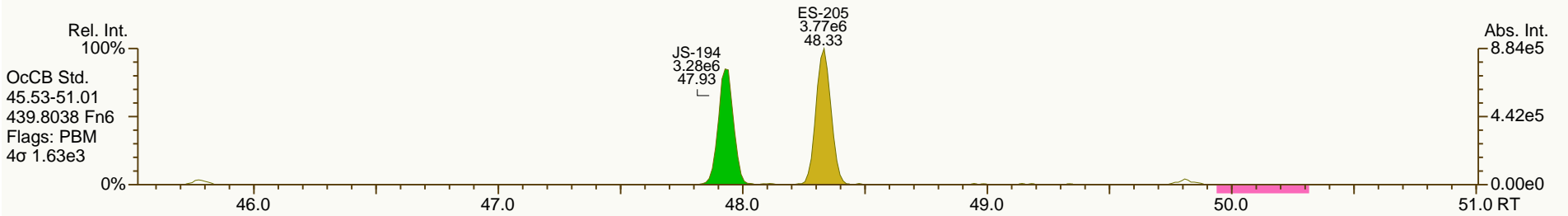
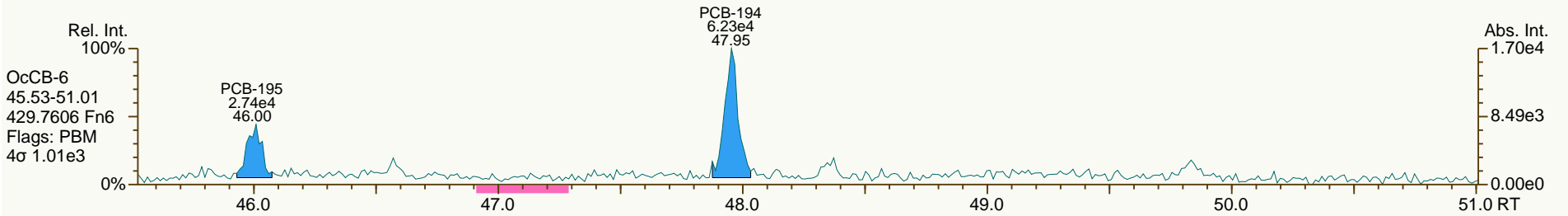
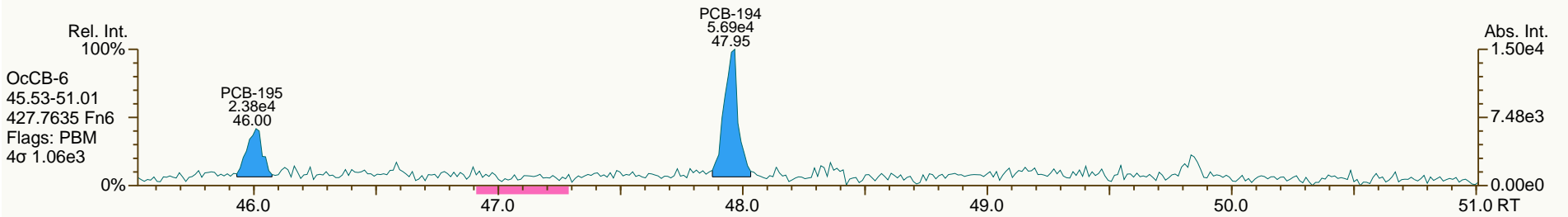
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SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 51

Acq: 24-Mar-2014 17:38:59  
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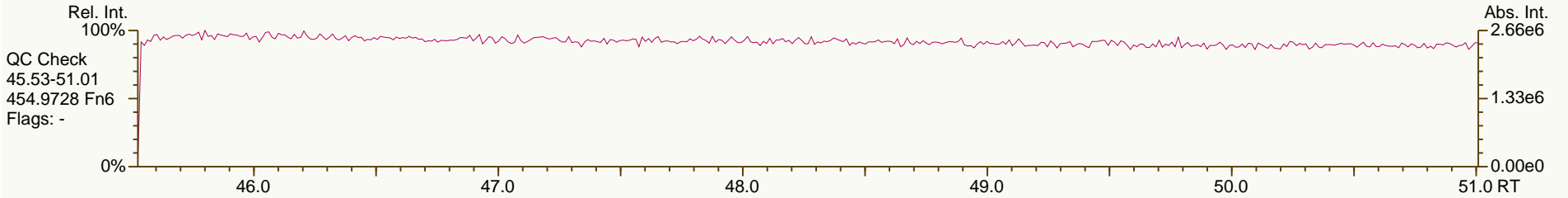
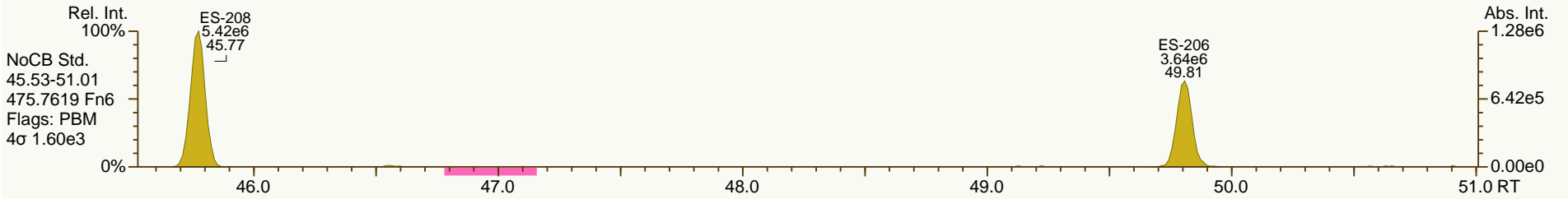
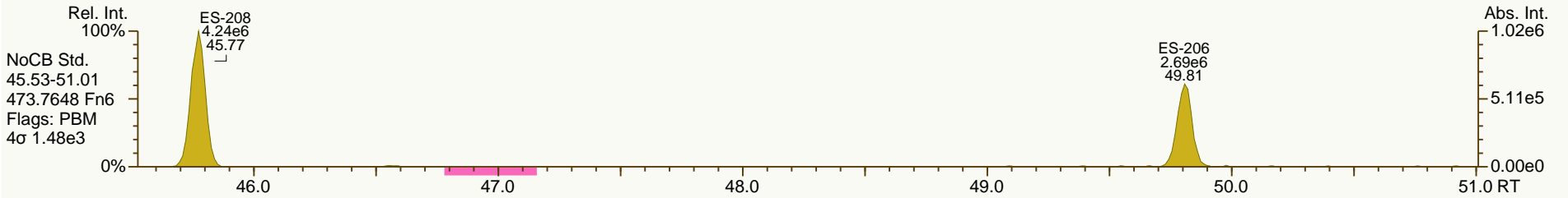
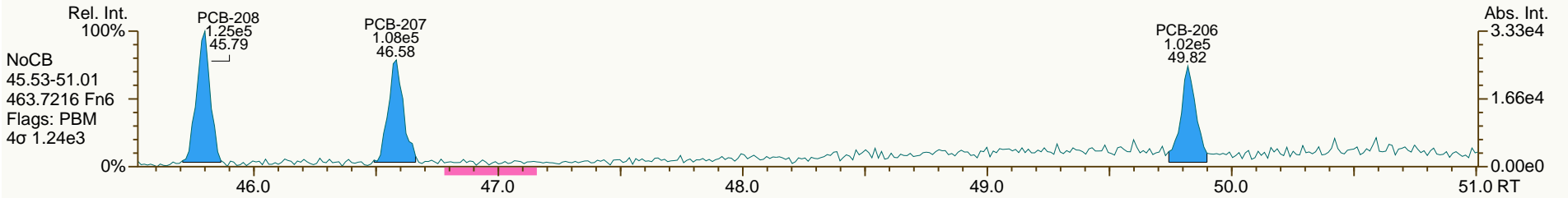
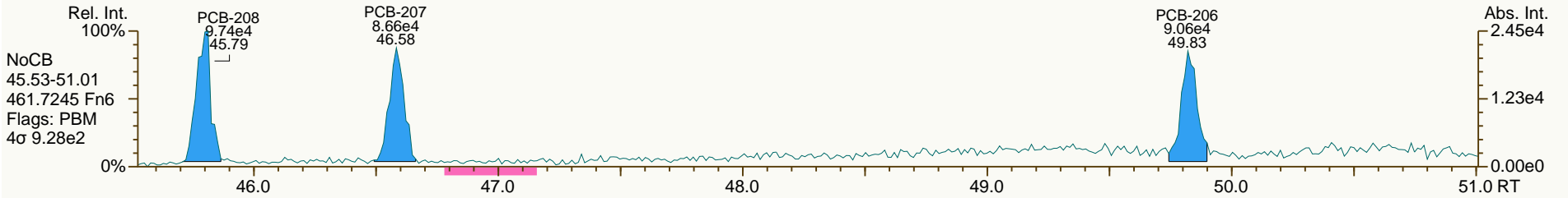




SGS ID: A6492\_11883\_PCB\_001-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 51

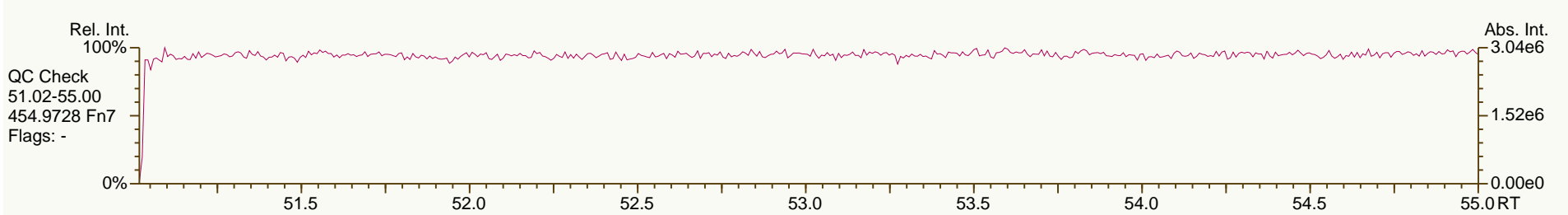
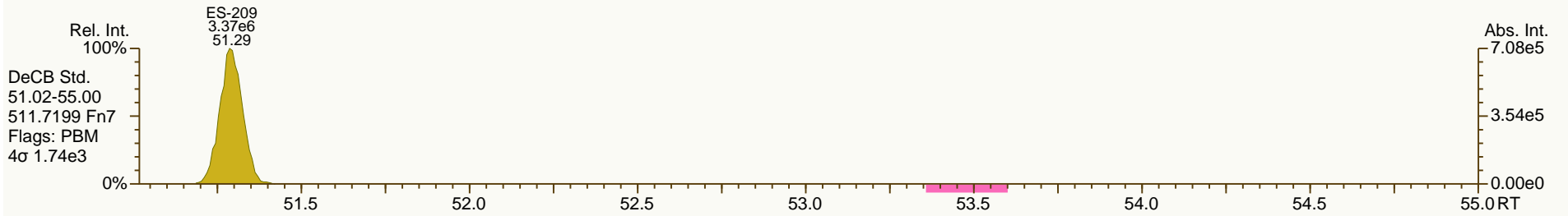
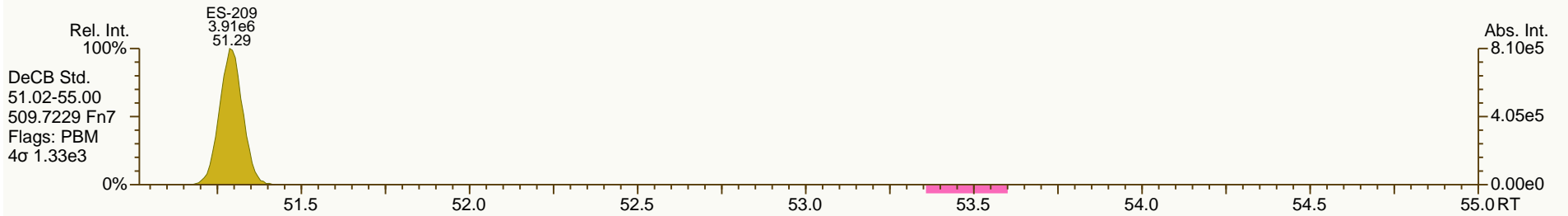
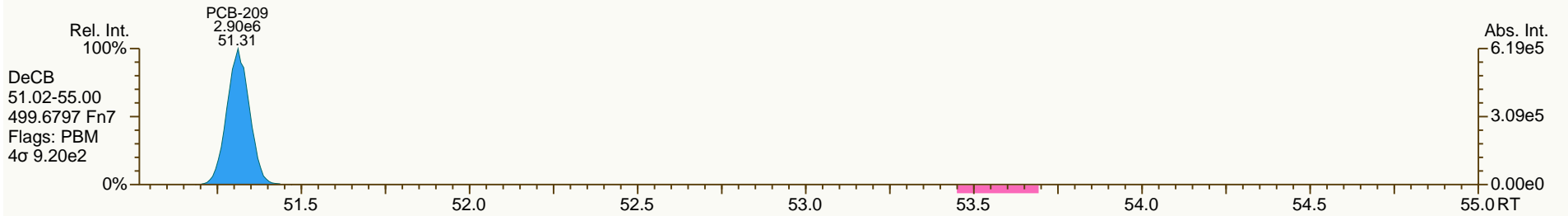
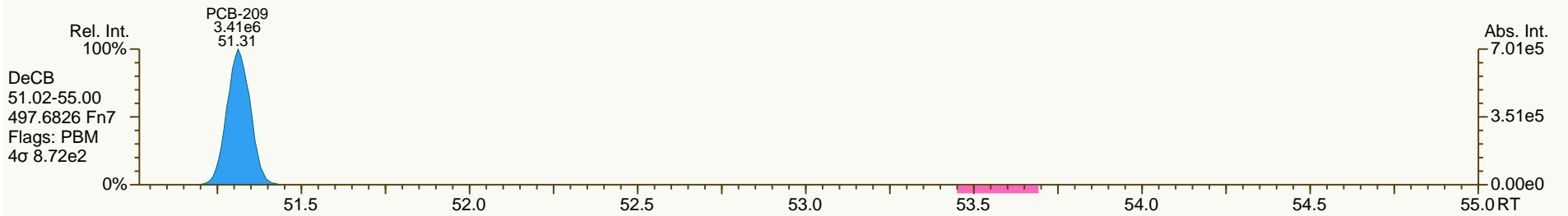
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SGS ID: A6492\_11883\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 51

Acq: 24-Mar-2014 17:38:59  
 User: CTW Datafile: 140324S08



Lab ID: A6492\_11883\_PCB\_002-RJ

ACQ: 24-Mar-2014 18:38:02 CTW

Wt/Vol: 0.96 L

ICAL: MM4\_PCB\_10292013\_05FEB2014 CS3\_140324\_PCB\_SA

Client ID: PB006.2-1 SWMID-140311-D (Dissolved)

UTP: 02-Apr-2014 13:06 JLJ

J-level: 10.4 pg/L Split: 1

Checkcode: 148-327-GVV

Datafile: 140324S09

RPT: 02-Apr-2014 13:06 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	33.13		1.0006	1.0006	0	2.31E+05	0.78	1.36	30	3.29E+03	4.69
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.32	ND	3.29E+03	4.6
PCB-105 233'44'-PeCB	36.13		1.0007	1.0006	-0.2	4.06E+05	0.63	1.03	77.4	2.13E+03	4.34
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.13	ND	2.13E+03	3.95
PCB-118 23'44'5'-PeCB	35.12		1.0007	1.0007	0	8.22E+05	0.65	1.13	145	2.13E+03	3.85
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	2.13E+03	4.09
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.33	ND	1.96E+03	3.32
PCB-156/157 ...-HxCB	41.29	J C	1.0005	1.0001	-1.0	3.18E+04	1.30	1.09	6.59	1.89E+03	5.65
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	1.89E+03	3.55
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.10	ND	1.89E+03	4.87
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.21	ND	1.95E+03	3.59
PCB-209 DeCB	51.30		1.0004	1.0004	0	5.62E+05	1.16	1.07	189	2.29E+03	9.06
ES PCB-1	12.01		0.7239	0.7237	-0.1	1.34E+07	3.22	1.05	68.7 %	15%	150%
ES PCB-3	14.33		0.8639	0.8638	-0.1	1.39E+07	3.33	0.97	77.9 %	15%	150%
ES PCB-4	14.59		0.8794	0.8792	-0.2	1.02E+07	1.55	0.66	83.7 %	25%	150%
ES PCB-15	20.36		1.2270	1.2275	+0.6	1.73E+07	1.67	1.09	86.5 %	25%	150%
ES PCB-19	17.71		1.0673	1.0674	+0.1	9.47E+06	1.04	0.55	93.4 %	25%	150%
ES PCB-37	26.74		1.0786	1.0788	+0.3	1.31E+07	1.07	1.44	89.9 %	25%	150%
ES PCB-54	20.65		0.8332	0.8330	-0.2	1.40E+07	0.75	1.42	97.1 %	25%	150%
ES PCB-77	33.11		1.3353	1.3357	+0.8	1.18E+07	0.82	1.26	92.6 %	25%	150%
ES PCB-81	32.63		1.3159	1.3163	+0.8	1.21E+07	0.82	1.27	94.2 %	25%	150%
ES PCB-104	25.66		0.8329	0.8327	-0.3	1.26E+07	1.54	1.56	94.5 %	25%	150%
ES PCB-105	36.11		1.1713	1.1716	+0.6	1.06E+07	1.59	1.23	101 %	25%	150%
ES PCB-114	35.56		1.1536	1.1539	+0.6	1.04E+07	1.57	1.20	101 %	25%	150%
ES PCB-118	35.09		1.1385	1.1387	+0.4	1.05E+07	1.65	1.13	108 %	25%	150%
ES PCB-123	34.81		1.1294	1.1296	+0.4	1.02E+07	1.61	1.16	102 %	25%	150%
ES PCB-126	38.73		1.2564	1.2568	+0.9	9.52E+06	1.68	1.22	91.4 %	25%	150%
ES PCB-153	36.68		0.9717	0.9717	0	9.24E+06	1.30	1.10	97.4 %	25%	150%
ES PCB-155	30.65		0.8119	0.8118	-0.2	1.24E+07	1.26	1.60	89.9 %	25%	150%
ES PCB-156/157	41.29		1.0935	1.0936	+0.2	1.85E+07	1.26	1.14	94.3 %	25%	150%
ES PCB-167	40.30		1.0673	1.0674	+0.2	9.87E+06	1.27	1.17	98 %	25%	150%
ES PCB-169	44.01		1.1656	1.1659	+0.8	8.24E+06	1.28	1.11	86.6 %	25%	150%
ES PCB-170	43.53		0.9084	0.9084	0	7.06E+06	1.04	1.18	97.5 %	25%	150%
ES PCB-180	42.45		0.8861	0.8860	-0.3	8.14E+06	1.02	1.44	94.1 %	25%	150%
ES PCB-188	35.55		0.7421	0.7419	-0.4	1.25E+07	1.10	1.52	95.4 %	25%	150%
ES PCB-189	46.15		0.9631	0.9631	0	9.85E+06	1.11	1.80	102 %	25%	150%
ES PCB-202	40.11		0.8372	0.8371	-0.2	1.16E+07	0.85	1.39	97.4 %	25%	150%
ES PCB-205	48.32		1.0084	1.0084	0	6.36E+06	0.87	1.26	93.9 %	25%	150%
ES PCB-206	49.79		1.0391	1.0392	+0.3	5.02E+06	0.79	1.00	93.9 %	25%	150%
ES PCB-208	45.76		0.9550	0.9549	-0.3	7.56E+06	0.78	1.38	102 %	25%	150%
ES PCB-209	51.28		1.0701	1.0701	0	5.81E+06	1.17	1.26	85.8 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.15		0.9341	0.9341	0	1.62E+07	1.07	1.10	112 %	30%	135%
SS PCB-111	33.12		1.0747	1.0748	+0.2	1.14E+07	1.67	1.03	109 %	30%	135%
SS PCB-178	38.13		1.0099	1.0100	+0.2	9.22E+06	1.11	0.62	119 %	30%	135%
CS PCB-28	23.15		0.9341	0.9341	0	1.62E+07	1.07	1.59	101 %	30%	135%
CS PCB-111	33.12		1.0747	1.0748	+0.2	1.14E+07	1.67	1.20	112 %	30%	135%
CS PCB-178	38.13		1.0099	1.0100	+0.2	9.22E+06	1.11	0.94	114 %	30%	135%

JS PCB-9	16.59					1.85E+07	1.59				
JS PCB-52	24.79					1.01E+07	0.79				
JS PCB-101	30.82					8.54E+06	1.59				
JS PCB-138	37.75					8.61E+06	1.37				
JS PCB-194	47.92					5.37E+06	0.90				

	Totals	NON-EMPC	EMPC	DL
	Mono-CBs	39.4	39.4	2.74
	Di-CBs	512	542	5.73
	Tri-CBs	4,190	4,190	5.5
	Tetra-CBs	6,340	6,370	4.72
	Penta-CBs	1,660	1,660	3.9
	Hexa-CBs	294	343	4.24
	Hepta-CBs	61.3	68.3	4.24
	Octa-CBs	9.37	9.37	5.26
	Nona-CBs	7.57	7.57	7.24

PCB-1 2-MoCB	12.02		1.0011	1.0011	0	2.55E+05	3.07	1.21	32.8	3.10E+03	2.6
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.28	ND	3.10E+03	2.91
PCB-3 4-MoCB	14.34	J	1.0010	1.0009	-0.1	5.73E+04	2.83	1.30	6.62	3.10E+03	2.88
PCB-4 22'-DiCB	14.60		1.0011	1.0011	0	1.16E+06	1.43	0.98	241	4.44E+03	7.53
PCB-10 26'-DiCB	14.78	J	1.0135	1.0134	-0.1	6.33E+04	SI	1.59	8.13	4.44E+03	4.64
PCB-9 25'-DiCB	16.60	J	1.0010	1.0008	-0.2	6.67E+04	SI	1.16	6.91	3.79E+03	4.02
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.29	ND	3.79E+03	3.62
PCB-6 23'-DiCB	17.00		1.0249	1.0249	0	2.81E+05	1.77	1.21	28	3.79E+03	3.87
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.20	ND	3.79E+03	3.89
PCB-8 24'-DiCB	17.43		1.0506	1.0507	+0.1	1.46E+06	1.49	1.22	144	3.79E+03	3.83
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.40	ND	3.79E+03	3.35
PCB-11 33'-DiCB	19.79	B EMPC	0.9722	0.9720	-0.2	2.92E+05	1.85	1.17	30	3.79E+03	4
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9867	-		0.00E+00		1.15	ND	3.79E+03	4.06
PCB-15 44'-DiCB	20.37		1.0008	1.0006	-0.2	8.23E+05	1.58	1.19	83.6	3.79E+03	3.94
PCB-19 22'6-TrCB	17.72		1.0010	1.0010	0	5.55E+05	0.97	1.05	117	3.08E+03	6.27
PCB-30/18 246/22'5-TrCB	19.51	C	1.1013	1.1019	+0.7	5.60E+06	1.07	1.34	919	3.08E+03	4.9
PCB-17 22'4-TrCB	19.91		1.1242	1.1243	+0.1	1.61E+06	1.04	1.15	309	3.08E+03	5.74
PCB-27 23'6-TrCB	20.10		1.1352	1.1353	+0.1	3.53E+05	1.01	1.55	50.3	3.08E+03	4.25
PCB-24 236-TrCB	20.23	J	1.1429	1.1422	-0.8	3.72E+04	1.10	1.52	5.38	3.08E+03	4.32
PCB-16 22'3-TrCB	20.34		1.1485	1.1485	0	1.21E+06	1.09	0.82	327	3.08E+03	8.07

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.82		1.1756	1.1758	+0.2	1.93E+06	1.03	1.67	256	3.08E+03	3.95
PCB-34 23'5'-TrCB	NotFnd		0.8222	-		0.00E+00		1.44	ND	3.64E+03	4.33
PCB-23 235-TrCB	NotFnd		0.8278	-		0.00E+00		1.44	ND	3.64E+03	4.35
PCB-26/29 23'5'/245-TrCB	22.39		0.8386	0.8374	-1.6	1.09E+06	1.07	1.47	118	3.64E+03	4.26
PCB-25 23'4-TrCB	22.62		0.8461	0.8459	-0.3	4.03E+05	1.01	1.45	44.4	3.64E+03	4.31
PCB-31 24'5-TrCB	22.90		0.8565	0.8563	-0.3	7.38E+06	1.08	1.52	773	3.64E+03	4.11
PCB-28/20 244'/233'-TrCB	23.18	C	0.8673	0.8667	-0.8	6.40E+06	1.08	1.42	719	3.64E+03	4.4
PCB-21/33 234/23'4'-TrCB	23.39	C	0.8741	0.8748	+1.0	2.35E+06	1.02	1.47	254	3.64E+03	4.24
PCB-22 234'-TrCB	23.75		0.8882	0.8881	-0.1	1.62E+06	1.06	1.36	190	3.64E+03	4.58
PCB-36 33'5-TrCB	NotFnd		0.9402	-		0.00E+00		1.50	ND	3.64E+03	4.16
PCB-39 34'5-TrCB	NotFnd		0.9523	-		0.00E+00		1.50	ND	3.64E+03	4.17
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.36	ND	3.64E+03	4.61
PCB-35 33'4-TrCB	26.40	J	0.9871	0.9872	+0.2	7.94E+04	0.97	1.27	9.95	3.64E+03	4.91
PCB-37 344'-TrCB	26.76		1.0007	1.0009	+0.3	7.78E+05	1.02	1.32	93.7	3.64E+03	4.72
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.02	ND	2.76E+03	4.17
PCB-50/53 22'46/22'56'-TeCB	22.65	C	0.9147	0.9136	-1.5	1.05E+06	0.78	0.94	194	2.50E+03	4.91
PCB-45 22'36-TeCB	23.27		0.9385	0.9385	0	8.53E+05	0.78	0.82	181	2.50E+03	5.64
PCB-51 22'46'-TeCB	23.34		0.9415	0.9416	+0.1	3.17E+05	0.72	0.93	58.9	2.50E+03	4.93
PCB-46 22'36'-TeCB	23.55		0.9501	0.9500	-0.1	3.02E+05	0.82	0.77	68	2.50E+03	5.97
PCB-52 22'55'-TeCB	24.81		1.0009	1.0009	0	6.19E+06	0.77	0.88	1,220	2.50E+03	5.21
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	2.50E+03	3.75
PCB-43 22'35-TeCB	25.03	EMPC	1.0101	1.0098	-0.5	1.28E+05	0.96	0.72	31	2.50E+03	6.43
PCB-69/49 23'46/22'45'-TeCB	25.25	C	1.0180	1.0188	+1.2	3.55E+06	0.78	1.08	569	2.50E+03	4.25
PCB-48 22'45-TeCB	25.52		1.0294	1.0294	0	8.90E+05	0.82	0.89	173	2.50E+03	5.15
PCB-44/47/65 ...-TeCB	25.71	C	1.0382	1.0372	-1.5	5.21E+06	0.79	0.96	940	2.50E+03	4.79
PCB-59/62/75 ...-TeCB	26.01	C	1.0494	1.0491	-0.5	4.83E+05	0.81	1.23	67.8	2.50E+03	3.72
PCB-42 22'34'-TeCB	26.18		1.0562	1.0562	0	1.01E+06	0.82	0.80	219	2.50E+03	5.72
PCB-41 22'34-TeCB	26.52		1.0697	1.0699	+0.3	2.99E+05	0.82	0.73	71	2.50E+03	6.3
PCB-71/40 23'4'6/22'33'-TeCB	26.62	C	1.0736	1.0738	+0.3	2.02E+06	0.80	0.92	381	2.50E+03	5.01
PCB-64 234'6-TeCB	26.81		1.0816	1.0817	+0.2	2.65E+06	0.77	1.31	351	2.50E+03	3.52
PCB-72 23'55'-TeCB	NotFnd		0.8441	-		0.00E+00		1.45	ND	3.29E+03	4.18
PCB-68 23'45'-TeCB	NotFnd		0.8519	-		0.00E+00		1.56	ND	3.29E+03	3.87
PCB-57 233'5-TeCB	NotFnd		0.8634	-		0.00E+00		1.41	ND	3.29E+03	4.3
PCB-58 233'5'-TeCB	NotFnd		0.8697	-		0.00E+00		1.44	ND	3.29E+03	4.2
PCB-67 23'45-TeCB	28.53	J	0.8745	0.8743	-0.3	7.97E+04	0.76	1.49	9.26	3.29E+03	4.06
PCB-63 234'5-TeCB	28.76		0.8815	0.8814	-0.2	1.26E+05	0.67	1.58	13.9	3.29E+03	3.84
PCB-61/70/74/76 ...-TeCB	29.06	C	0.8904	0.8905	+0.2	7.93E+06	0.81	1.45	948	3.29E+03	4.17
PCB-66 23'44'-TeCB	29.34		0.8991	0.8991	0	4.19E+06	0.80	1.39	522	3.29E+03	4.34
PCB-55 233'4-TeCB	NotFnd		0.9037	-		0.00E+00		1.35	ND	3.29E+03	4.47
PCB-56 233'4'-TeCB	29.92		0.9172	0.9170	-0.4	1.78E+06	0.73	1.34	231	3.29E+03	4.53
PCB-60 2344'-TeCB	30.12		0.9231	0.9230	-0.2	7.57E+05	0.77	1.36	96.2	3.29E+03	4.43
PCB-80 33'55'-TeCB	NotFnd		0.9331	-		0.00E+00		1.60	ND	3.29E+03	3.79
PCB-79 33'45'-TeCB	NotFnd		0.9739	-		0.00E+00		1.59	ND	3.29E+03	3.81
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.30	ND	3.29E+03	4.65
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.02	ND	2.21E+03	3.83
PCB-96 22'366'-PeCB	26.01	J	1.0134	1.0135	+0.2	4.11E+04	0.58	0.90	7.61	2.21E+03	4.35
PCB-103 22'45'6-PeCB	NotFnd		0.8992	-		0.00E+00		0.94	ND	2.13E+03	4.86
PCB-94 22'356'-PeCB	NotFnd		0.9054	-		0.00E+00		0.81	ND	2.13E+03	5.63

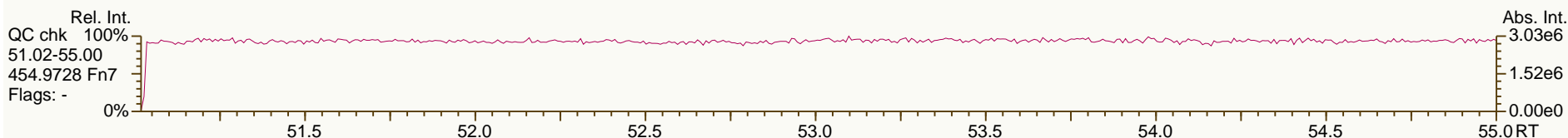
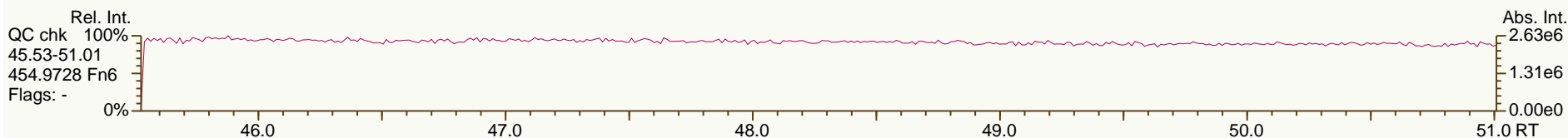
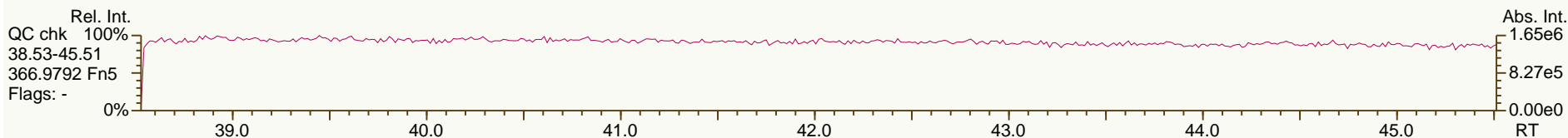
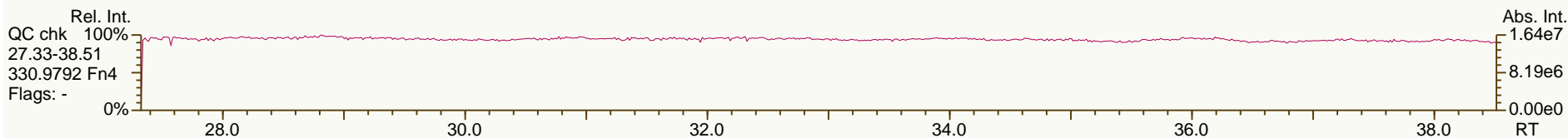
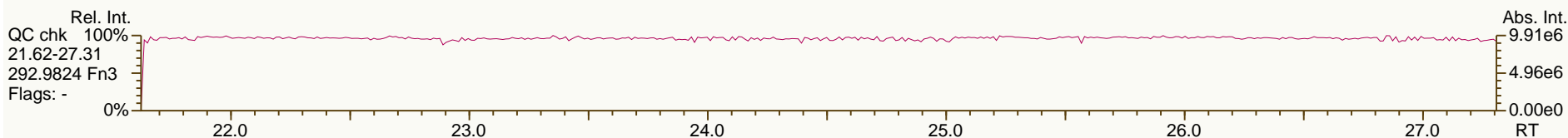
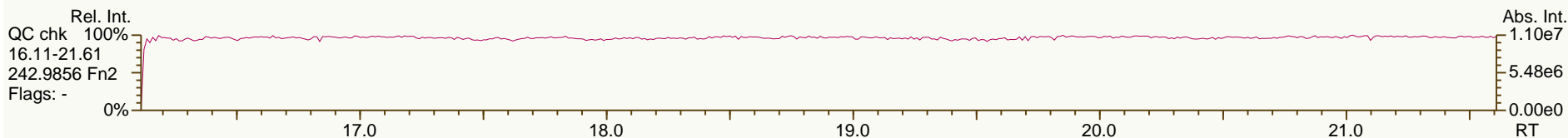
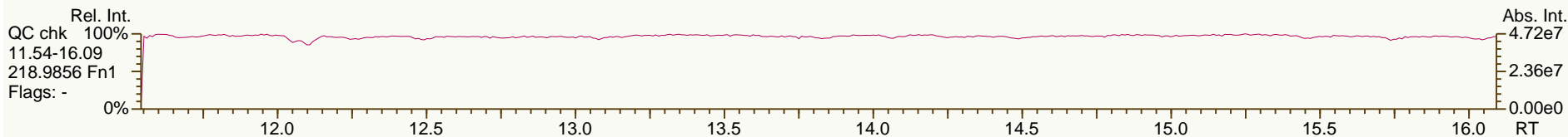
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PCB-95 22'35'6-PeCB	28.29		0.9179	0.9178	-0.2	1.07E+06	0.59	0.87	252	2.13E+03	5.24
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9247	-		0.00E+00		0.86	ND	2.13E+03	5.28
PCB-102 22'456'-PeCB	28.61		0.9283	0.9285	+0.3	7.51E+04	0.57	0.96	16.2	2.13E+03	4.76
PCB-98 22'34'6'-PeCB	NotFnd		0.9307	-		0.00E+00		0.83	ND	2.13E+03	5.51
PCB-88 22'346-PeCB	NotFnd		0.9405	-		0.00E+00		0.84	ND	2.13E+03	5.42
PCB-91 22'34'6-PeCB	29.05		0.9426	0.9426	0	2.36E+05	0.59	0.92	53	2.13E+03	4.97
PCB-84 22'33'6-PeCB	29.24		0.9490	0.9489	-0.2	3.66E+05	0.60	0.74	102	2.13E+03	6.17
PCB-89 22'346'-PeCB	NotFnd		0.9626	-		0.00E+00		0.78	ND	2.13E+03	5.81
PCB-121 23'45'6-PeCB	NotFnd		0.9737	-		0.00E+00		1.19	ND	2.13E+03	3.82
PCB-92 22'355'-PeCB	30.33		0.9841	0.9841	0	1.51E+05	0.59	0.82	38	2.13E+03	5.56
PCB-113/90/101 ...-PeCB	30.84	C	0.9999	1.0007	+1.5	1.11E+06	0.63	0.96	236	2.13E+03	4.72
PCB-83 22'33'5-PeCB	31.25		1.0141	1.0139	-0.4	5.78E+04	0.59	0.68	17.6	2.13E+03	6.72
PCB-99 22'44'5-PeCB	31.35		1.0172	1.0173	+0.2	6.06E+05	0.60	0.97	129	2.13E+03	4.71
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.14	ND	2.13E+03	4
PCB-108/119/86/97/125...-PeCB	31.83	C	1.0319	1.0327	+1.5	8.79E+05	0.57	0.98	184	2.13E+03	4.63
PCB-117 234'56-PeCB	NotFnd		1.0492	-		0.00E+00		1.07	ND	2.13E+03	4.25
PCB-116/85 23456/22'344'-PeCB	32.41	C	1.0522	1.0516	-1.2	2.63E+05	0.58	0.99	54.4	2.13E+03	4.58
PCB-110 233'4'6-PeCB	32.55		1.0560	1.0562	+0.4	1.44E+06	0.59	1.05	283	2.13E+03	4.34
PCB-115 2344'6-PeCB	NotFnd		1.0588	-		0.00E+00		1.18	ND	2.13E+03	3.86
PCB-82 22'33'4-PeCB	32.83		1.0653	1.0654	+0.2	1.58E+05	0.65	0.71	45.9	2.13E+03	6.44
PCB-111 233'55'-PeCB	NotFnd		1.0754	-		0.00E+00		1.20	ND	2.13E+03	3.81
PCB-120 23'455'-PeCB	NotFnd		1.0884	-		0.00E+00		1.19	ND	2.13E+03	3.82
PCB-107/124 ...-PeCB	34.52	J EMPC C	0.9916	0.9916	0	4.01E+04	0.78	1.09	7.54	2.13E+03	4.16
PCB-109 233'46-PeCB	34.72		0.9975	0.9975	0	8.17E+04	0.62	1.14	14.8	2.13E+03	4.01
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.06	ND	2.13E+03	4.3
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		0.99	ND	2.13E+03	4.5
PCB-127 33'455'-PeCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	2.13E+03	4.25
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.80E+03	2.89
PCB-152 22'3566'-HxCB	NotFnd		1.0061	-		0.00E+00		1.02	ND	1.80E+03	3.12
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.02	ND	1.80E+03	3.13
PCB-136 22'33'66'-HxCB	31.28	EMPC	1.0208	1.0207	-0.2	7.60E+04	1.01	0.95	13.5	1.80E+03	3.36
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		0.98	ND	1.80E+03	3.26
PCB-148 22'34'56'-HxCB	NotFnd		1.0713	-		0.00E+00		1.05	ND	1.80E+03	3.94
PCB-151/135 ...-HxCB	33.36	EMPC C	1.0884	1.0885	+0.2	1.23E+05	1.05	1.02	27.3	1.80E+03	4.05
PCB-154 22'44'56'-HxCB	NotFnd		1.0952	-		0.00E+00		1.17	ND	1.80E+03	3.55
PCB-144 22'345'6-HxCB	NotFnd		1.1038	-		0.00E+00		1.05	ND	1.80E+03	3.95
PCB-147/149 ...-HxCB	34.13	C	1.1137	1.1137	0	3.25E+05	1.25	1.05	70	1.80E+03	3.94
PCB-134 22'33'56-HxCB	NotFnd		1.1196	-		0.00E+00		0.89	ND	1.80E+03	4.65
PCB-143 22'3456'-HxCB	NotFnd		1.1222	-		0.00E+00		0.96	ND	1.80E+03	4.31
PCB-139/140 ...-HxCB	NotFnd	C	1.1308	-		0.00E+00		1.06	ND	1.80E+03	3.89
PCB-131 22'33'46-HxCB	NotFnd		1.1365	-		0.00E+00		0.92	ND	1.80E+03	4.51
PCB-142 22'3456-HxCB	NotFnd		1.1412	-		0.00E+00		0.92	ND	1.80E+03	4.49
PCB-132 22'33'46'-HxCB	35.22		1.1489	1.1492	+0.6	1.19E+05	1.30	0.93	28.8	1.80E+03	4.43
PCB-133 22'33'55'-HxCB	NotFnd		1.1621	-		0.00E+00		0.97	ND	1.80E+03	4.25
PCB-165 233'55'6-HxCB	NotFnd		0.9526	-		0.00E+00		1.22	ND	1.80E+03	3.38
PCB-146 22'34'55'-HxCB	36.17		0.9583	0.9582	-0.2	7.44E+04	1.14	1.07	15.7	1.80E+03	3.87
PCB-161 233'45'6-HxCB	NotFnd		0.9615	-		0.00E+00		1.32	ND	1.80E+03	3.13
PCB-153/168 ...-HxCB	36.70	C	0.9729	0.9722	-1.5	3.57E+05	1.33	1.26	64.4	1.80E+03	3.3

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.87		0.9767	0.9766	-0.2	6.90E+04	1.25	1.00	15.6	1.80E+03	4.13
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.88	ND	1.80E+03	4.73
PCB-137 22'344'5'-HxCB	NotFnd		0.9911	-		0.00E+00		1.00	ND	1.80E+03	4.15
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9933	-		0.00E+00		1.36	ND	1.80E+03	3.04
PCB-163/138/129 ...-HxCB	37.78	C	1.0011	1.0007	-0.9	3.91E+05	1.15	1.06	83.2	1.80E+03	3.89
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.24	ND	1.80E+03	3.34
PCB-158 233'44'6'-HxCB	38.11	J	1.0096	1.0096	0	5.59E+04	1.19	1.36	9.32	1.80E+03	3.05
PCB-128/166 ...-HxCB	38.86	J EMPC C	0.9642	0.9644	+0.5	3.70E+04	1.62	0.95	8.22	1.89E+03	4.28
PCB-159 233'455'-HxCB	NotFnd		0.9845	-		0.00E+00		1.12	ND	1.89E+03	3.66
PCB-162 233'4'55'-HxCB	NotFnd		0.9904	-		0.00E+00		1.12	ND	1.89E+03	3.64
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.10	ND	1.93E+03	3.02
PCB-179 22'33'566'-HpCB	35.86	J EMPC	1.0087	1.0087	0	4.37E+04	1.29	1.03	7.06	1.93E+03	3.2
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		0.99	ND	1.93E+03	3.34
PCB-176 22'33'466'-HpCB	NotFnd		1.0299	-		0.00E+00		1.12	ND	1.93E+03	2.97
PCB-186 22'34566'-HpCB	NotFnd		1.0412	-		0.00E+00		1.04	ND	1.93E+03	3.19
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0730	-		0.00E+00		0.77	ND	1.93E+03	4.33
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0884	-		0.00E+00		1.04	ND	1.96E+03	4.88
PCB-187 22'34'55'6'-HpCB	38.92		1.0948	1.0949	+0.2	6.85E+04	1.13	1.10	15.9	1.96E+03	4.62
PCB-182 22'344'56'-HpCB	NotFnd		1.0999	-		0.00E+00		1.13	ND	1.96E+03	4.52
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1096	-		0.00E+00		1.14	ND	1.96E+03	4.46
PCB-185 22'3455'6'-HpCB	NotFnd		1.1121	-		0.00E+00		1.08	ND	1.96E+03	4.71
PCB-174 22'33'456'-HpCB	39.65	J	1.1152	1.1153	+0.2	3.50E+04	0.98	0.92	9.75	1.96E+03	5.52
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1257	-		0.00E+00		0.93	ND	1.96E+03	5.5
PCB-181 22'344'56'-HpCB	NotFnd		1.1355	-		0.00E+00		1.05	ND	1.96E+03	4.88
PCB-171/173 ...-HpCB	NotFnd	C	1.1407	-		0.00E+00		0.93	ND	1.96E+03	5.47
PCB-172 22'33'455'-HpCB	NotFnd		0.9083	-		0.00E+00		0.93	ND	1.96E+03	5.49
PCB-192 233'455'6'-HpCB	NotFnd		0.9137	-		0.00E+00		1.20	ND	1.96E+03	4.26
PCB-180/193 ...-HpCB	42.47	C	0.9197	0.9204	+1.8	1.06E+05	1.03	1.13	24.3	1.96E+03	4.53
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9269	-		0.00E+00		1.23	ND	1.96E+03	4.16
PCB-170 22'33'44'5'-HpCB	43.55		0.9437	0.9437	0	4.03E+04	1.04	1.06	11.3	1.96E+03	5.81
PCB-190 233'44'56'-HpCB	NotFnd		0.9535	-		0.00E+00		1.42	ND	1.96E+03	4.34
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		0.83	ND	1.85E+03	4.03
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0202	-		0.00E+00		0.90	ND	1.85E+03	3.72
PCB-204 22'344'566'-OcCB	NotFnd		1.0346	-		0.00E+00		0.84	ND	1.85E+03	3.98
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0394	-		0.00E+00		0.94	ND	1.85E+03	3.55
PCB-200 22'33'4566'-OcCB	NotFnd		1.0417	-		0.00E+00		0.83	ND	1.85E+03	4.02
PCB-198/199 ...-OcCB	44.13	J C	1.0997	1.1003	+1.6	3.09E+04	0.97	0.59	9.37	1.85E+03	5.61
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1141	-		0.00E+00		0.61	ND	1.85E+03	5.46
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1184	-		0.00E+00		0.62	ND	1.85E+03	5.33
PCB-195 22'33'44'56'-OcCB	NotFnd		0.9518	-		0.00E+00		0.93	ND	2.09E+03	7.77
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.95	ND	2.09E+03	7.59
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.09E+03	6.5
PCB-208 22'33'455'66'-NoCB	45.78	J	1.0005	1.0006	+0.3	2.77E+04	0.83	1.01	7.57	1.99E+03	5.84
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0177	-		0.00E+00		1.05	ND	1.99E+03	5.62
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.01	ND	1.99E+03	8.65

SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

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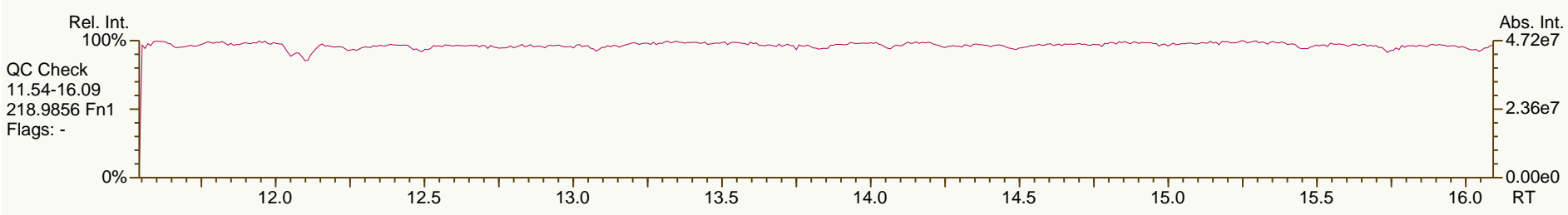
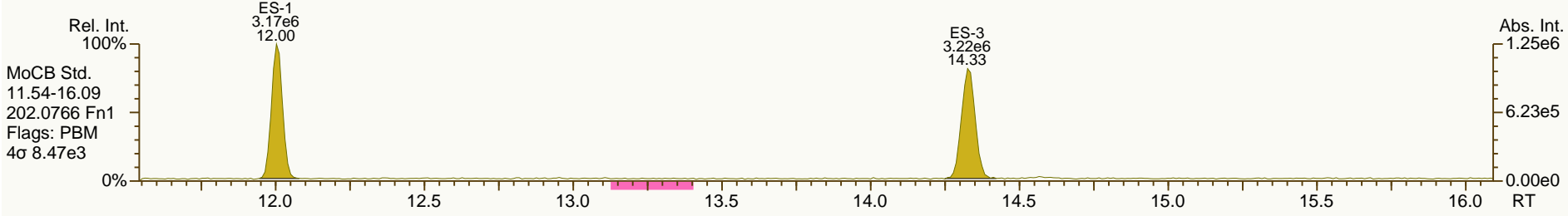
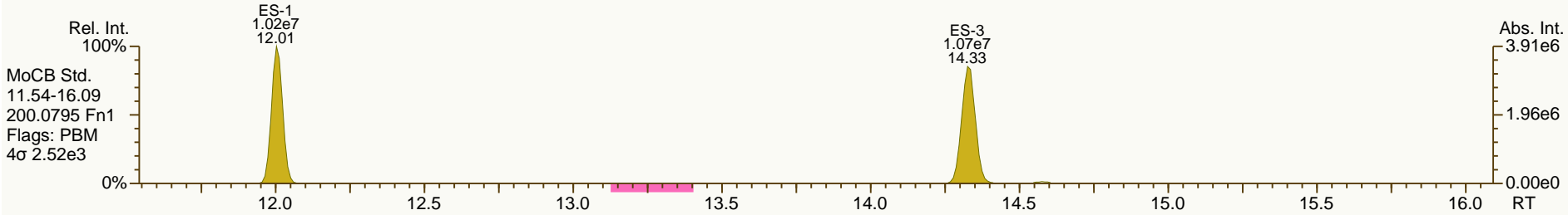
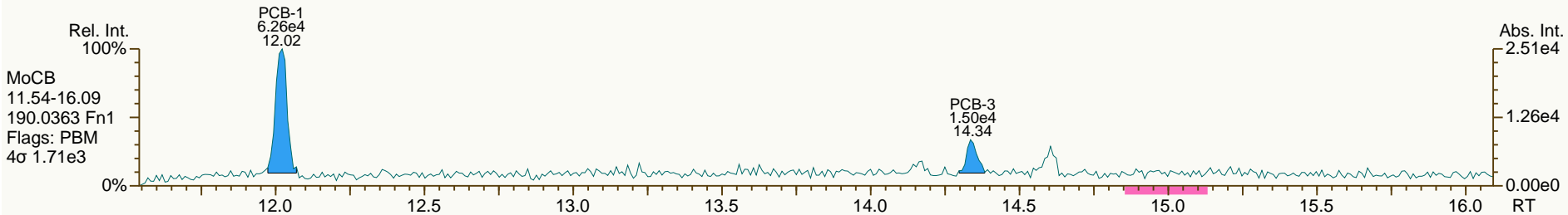
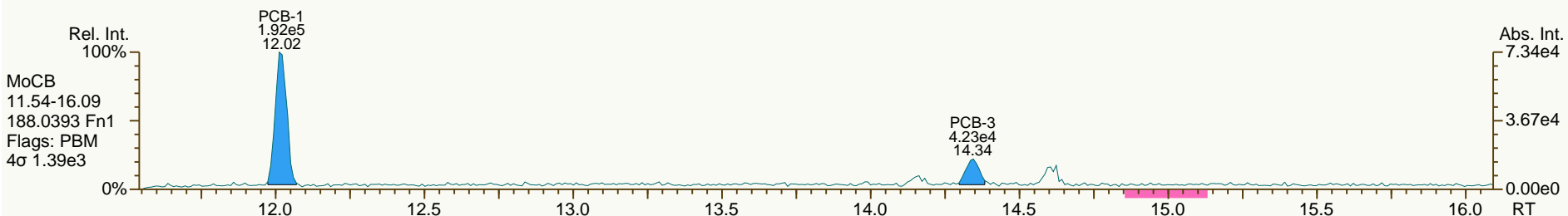




SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

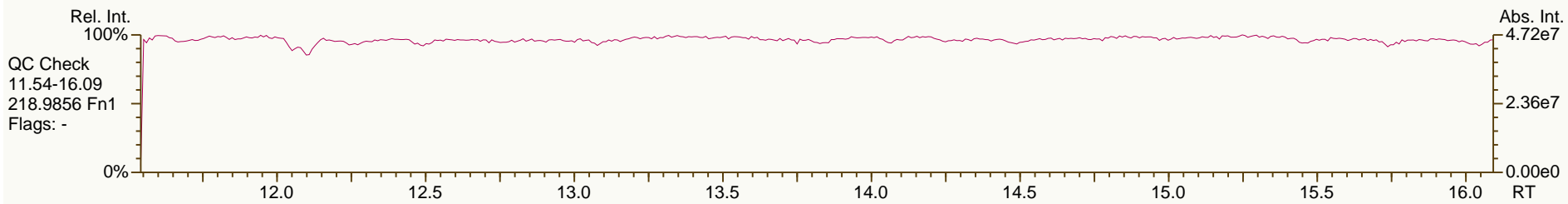
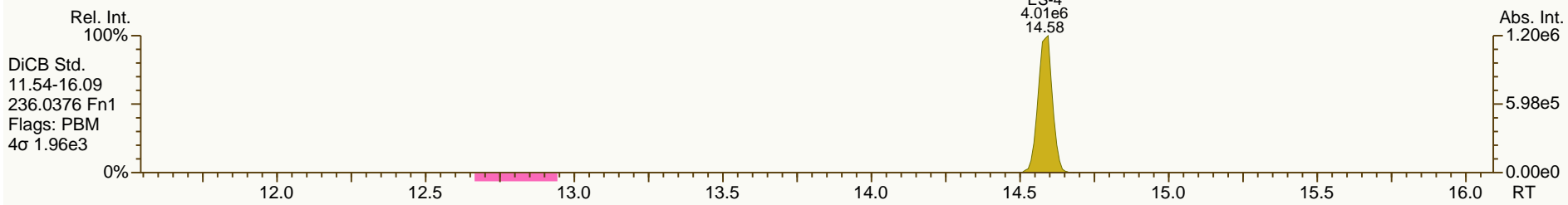
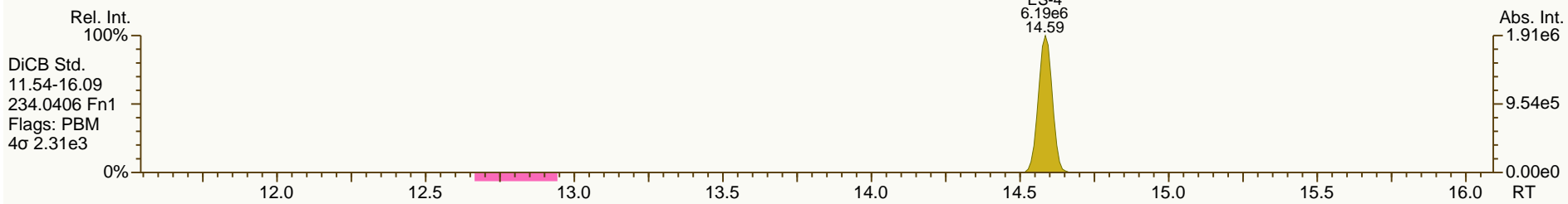
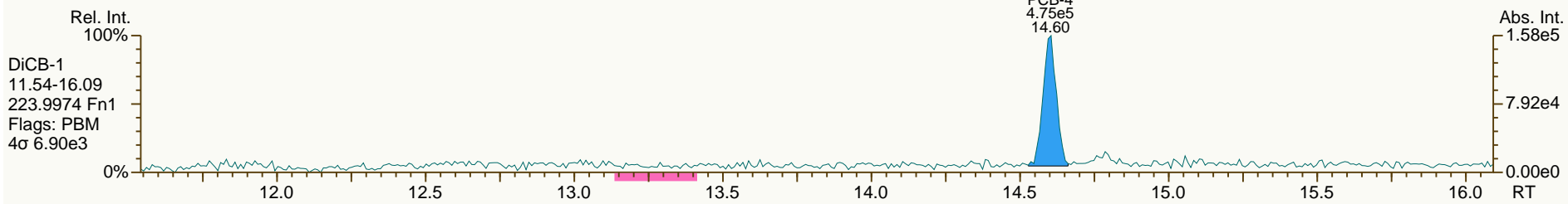
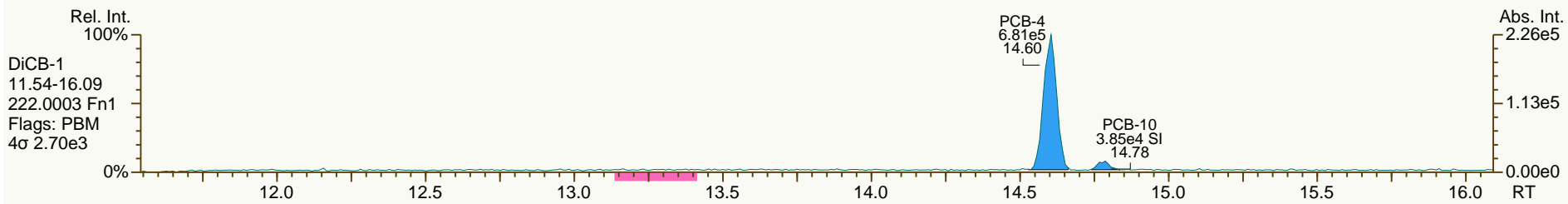
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

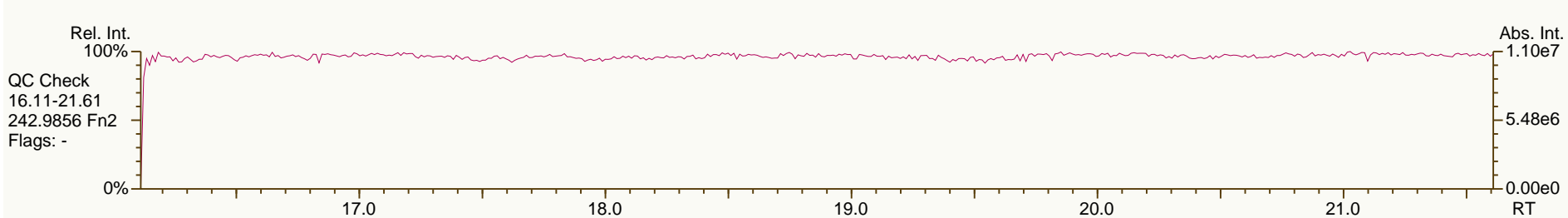
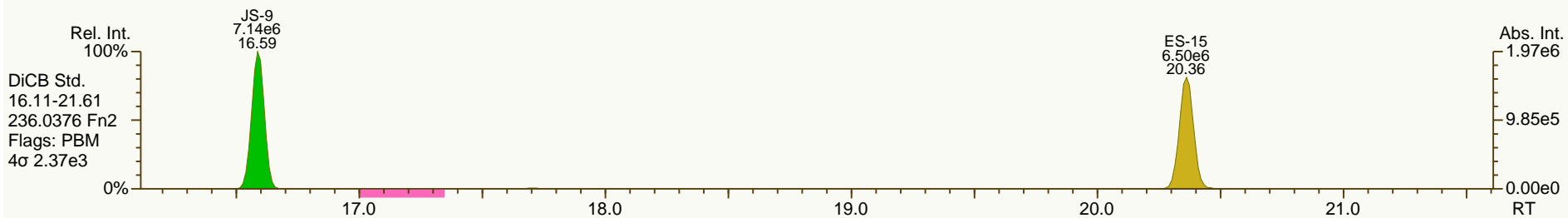
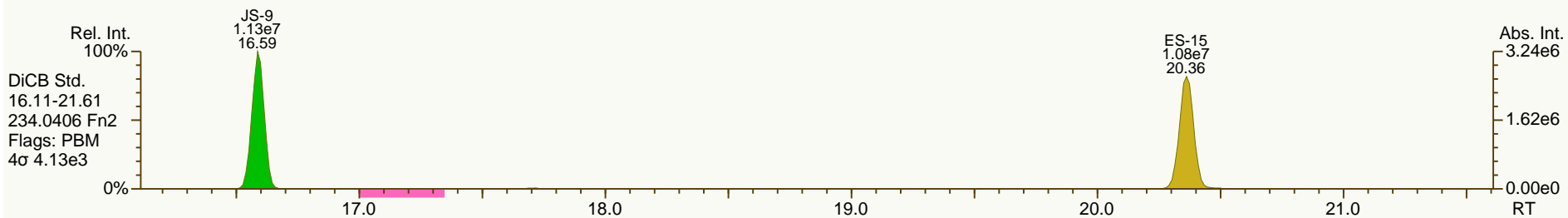
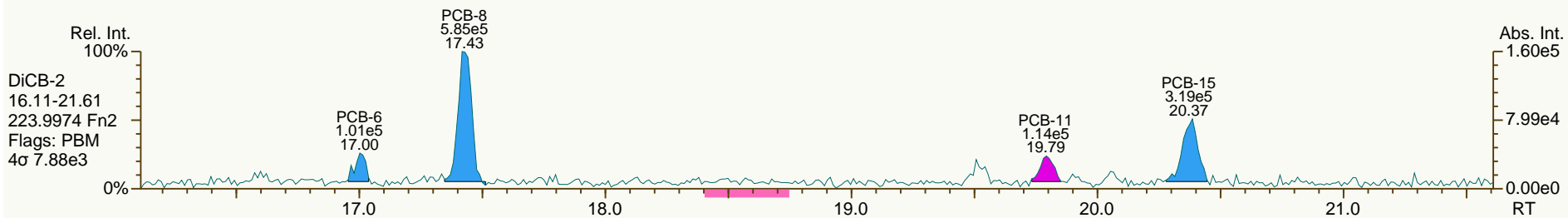
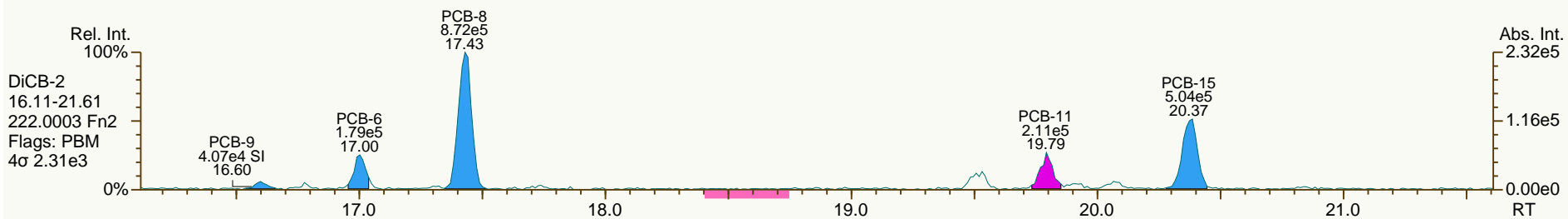
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

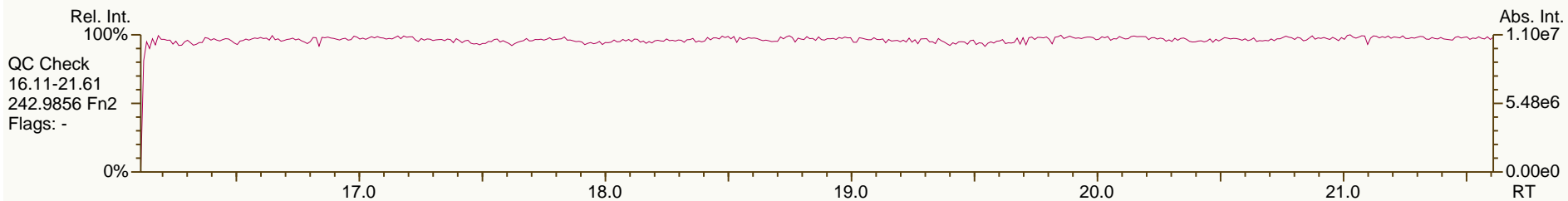
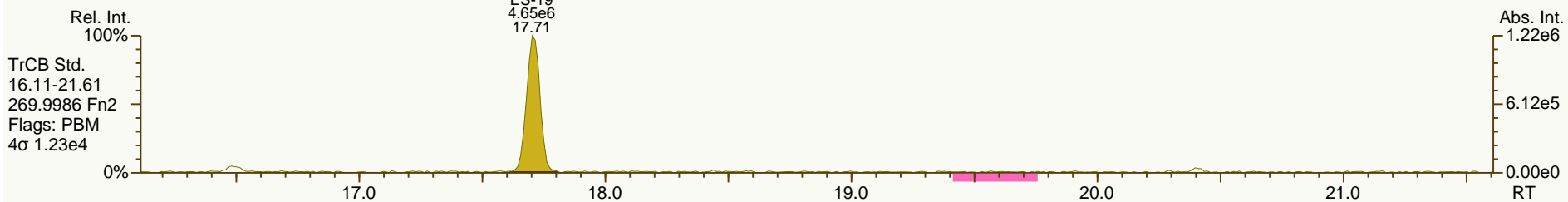
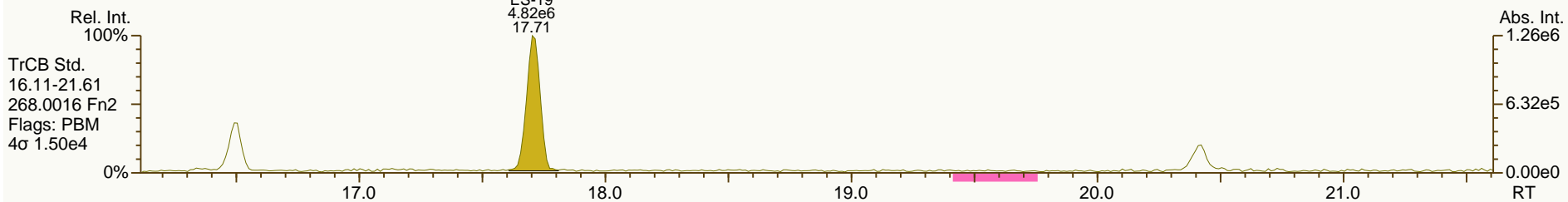
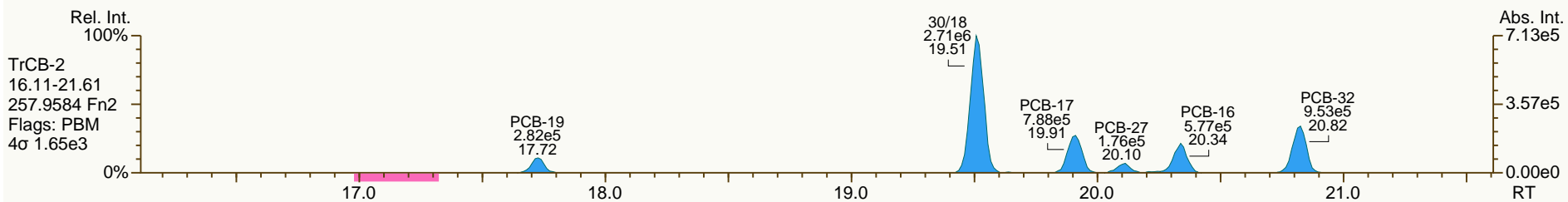
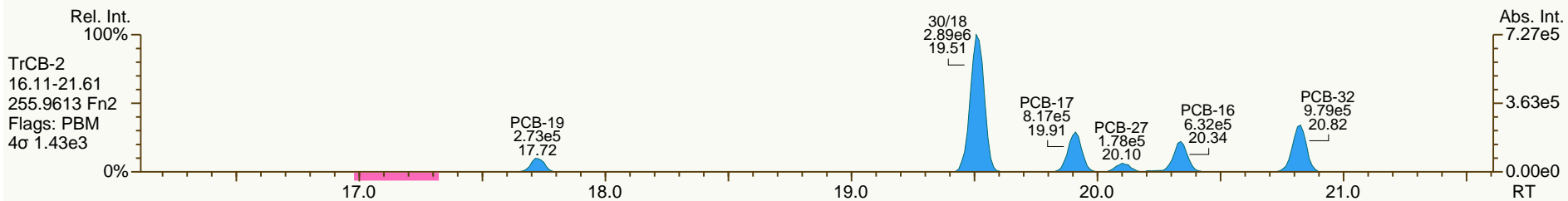
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
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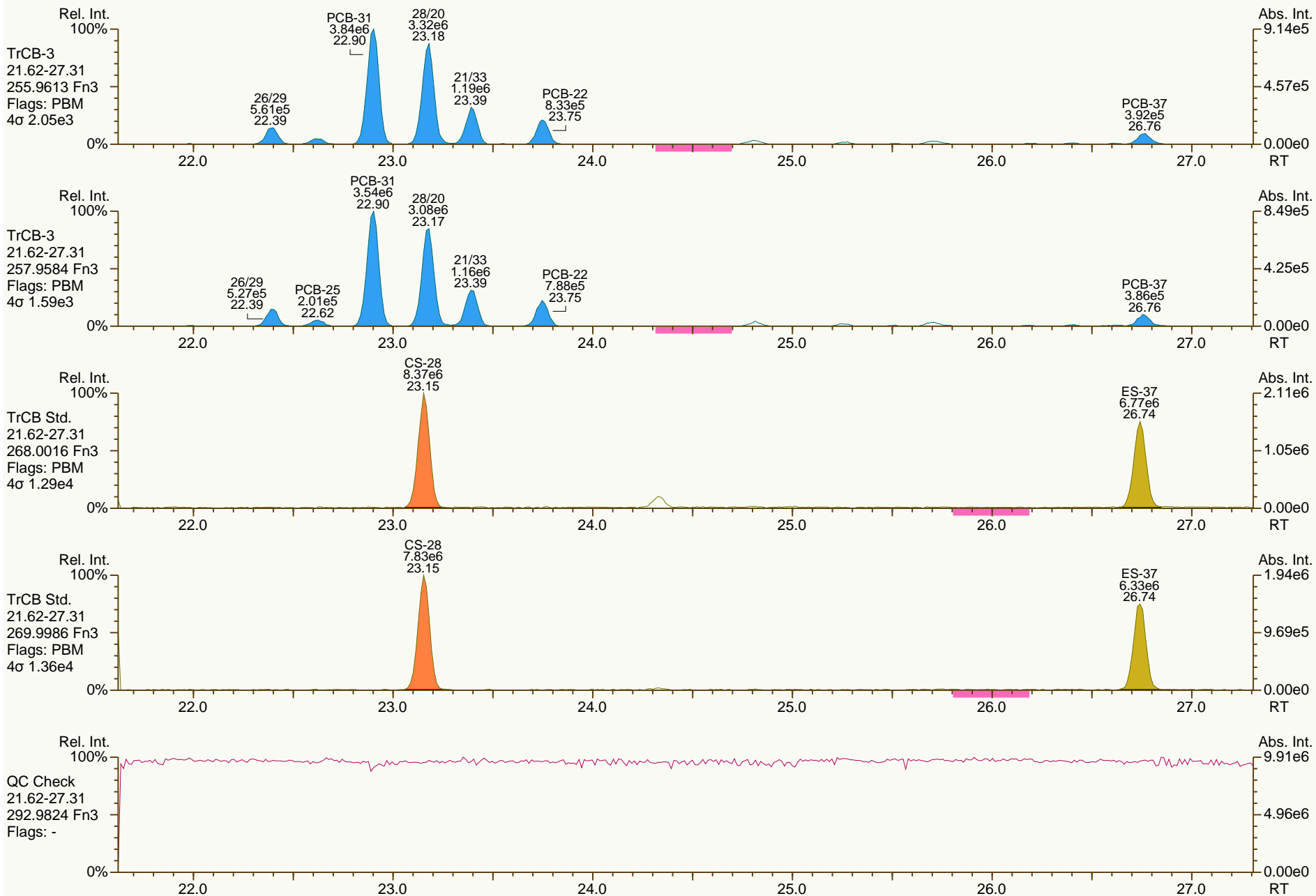
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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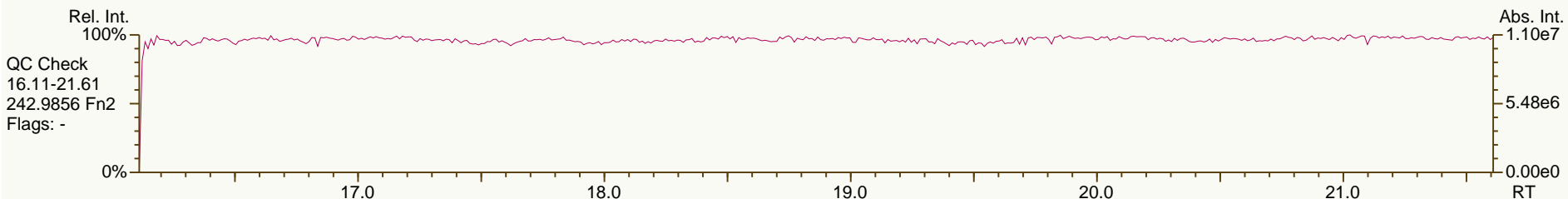
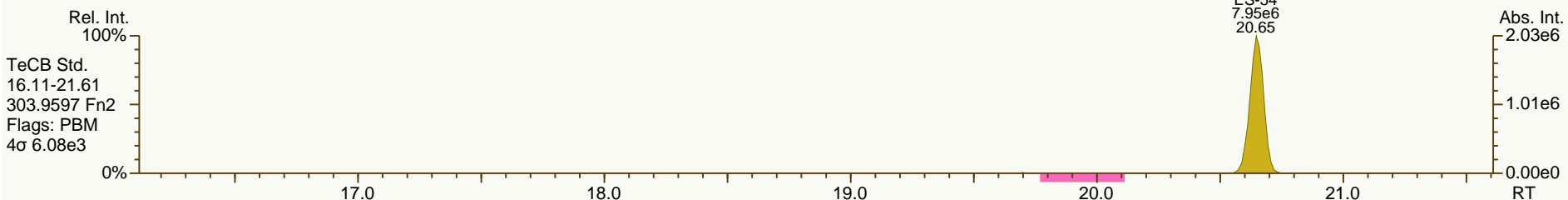
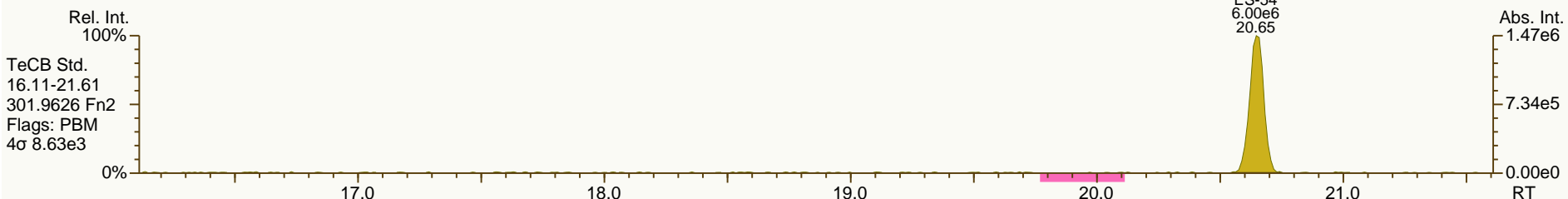
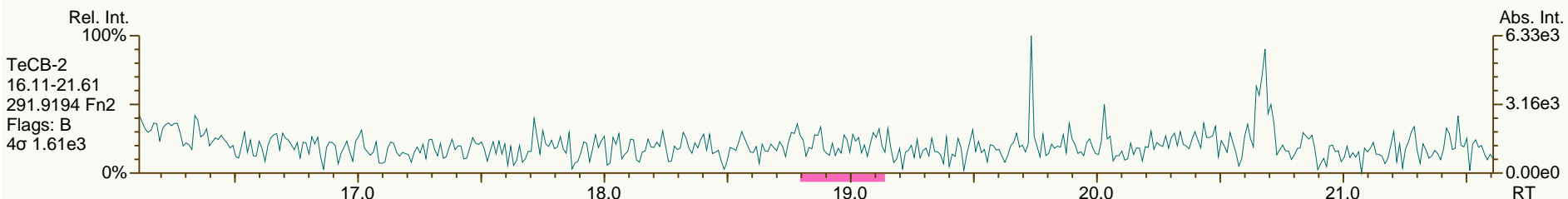
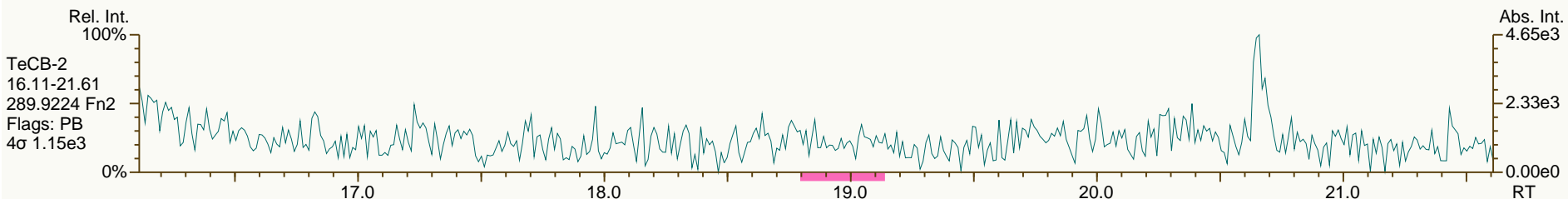
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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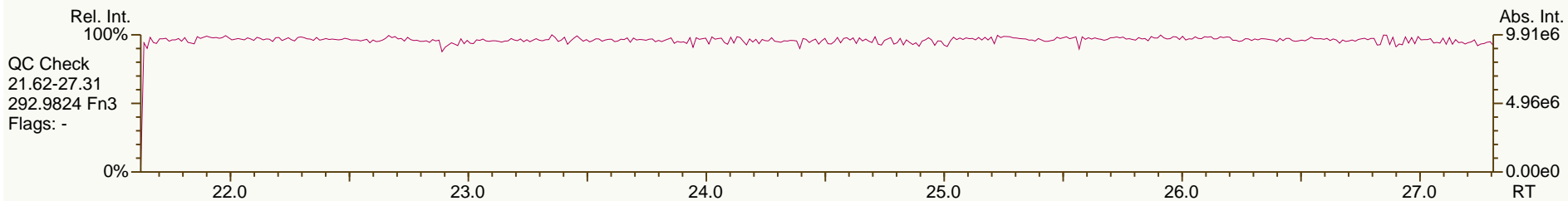
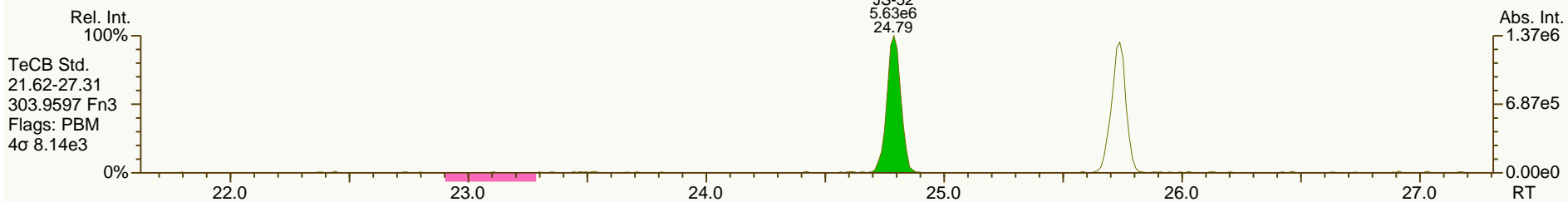
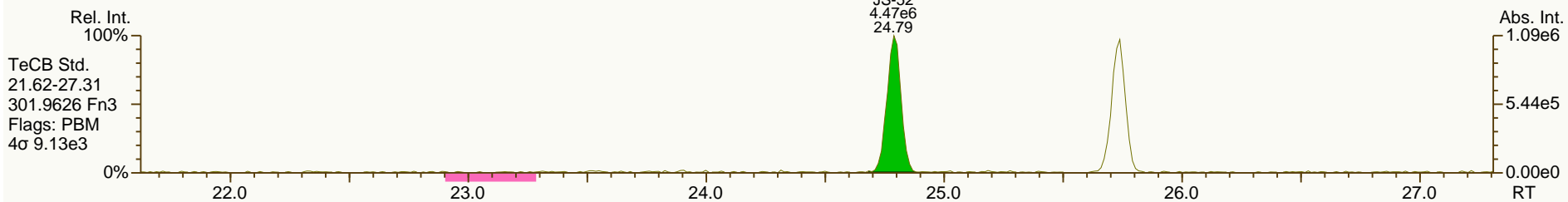
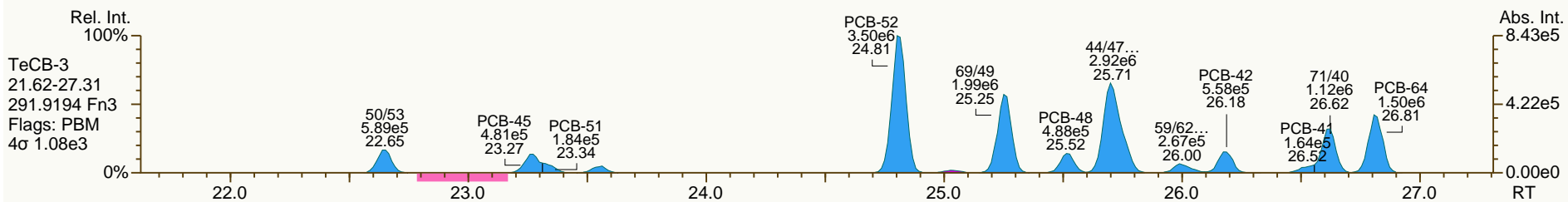
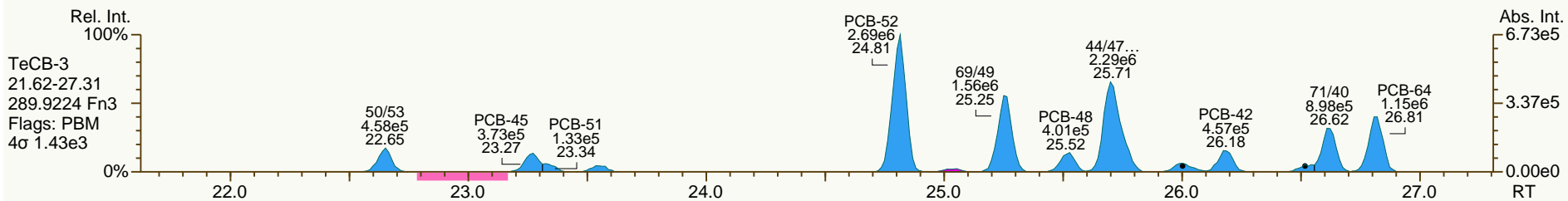
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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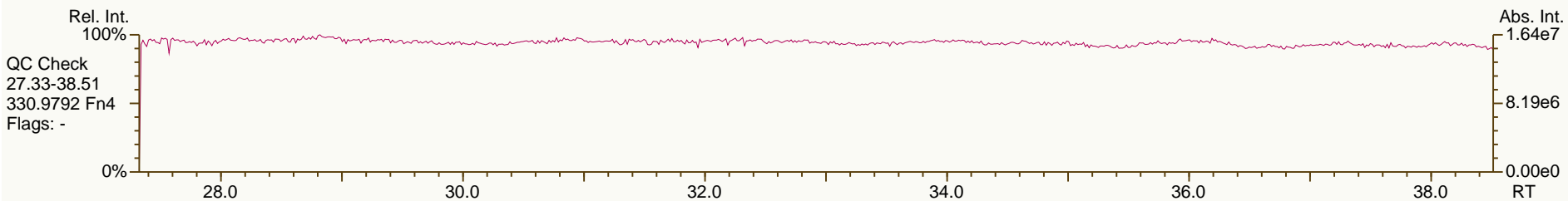
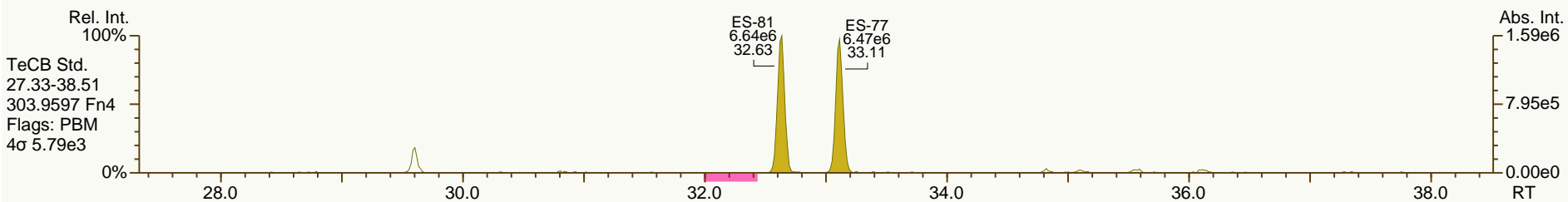
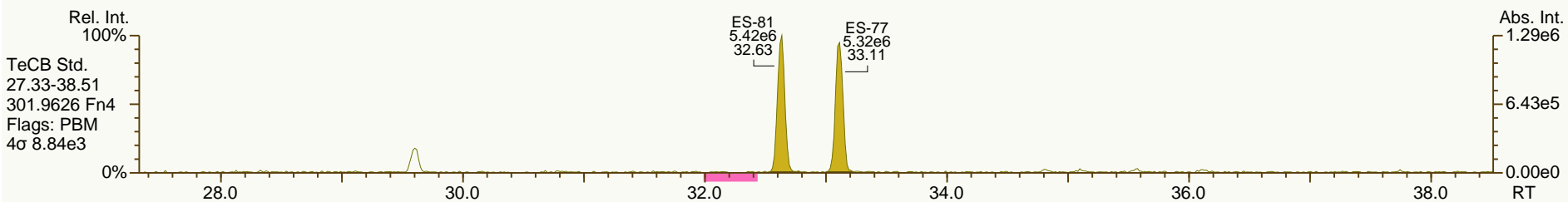
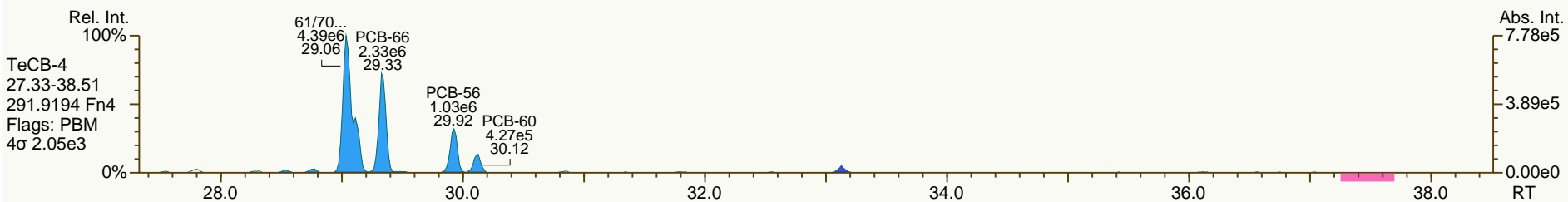
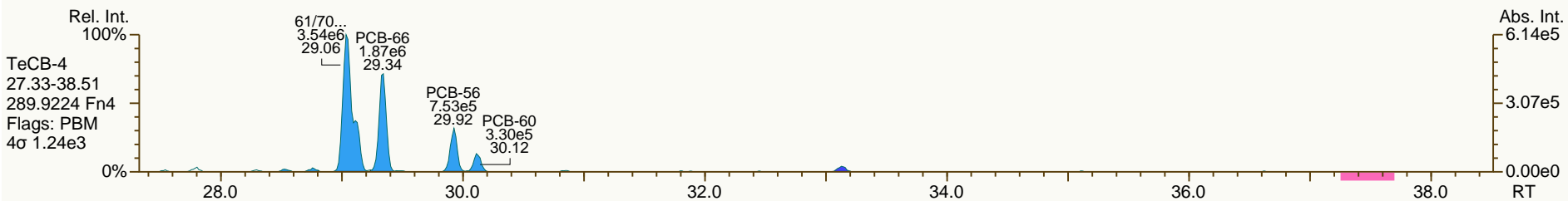
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

Acq: 24-Mar-2014 18:38:02  
 User: CTW Datafile: 140324S09





SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
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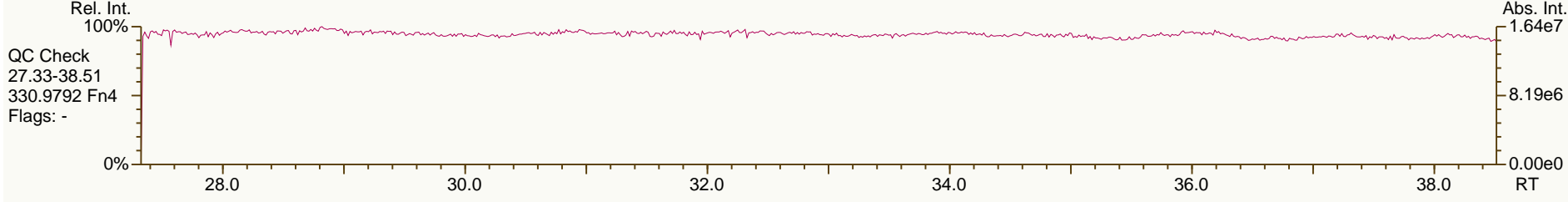
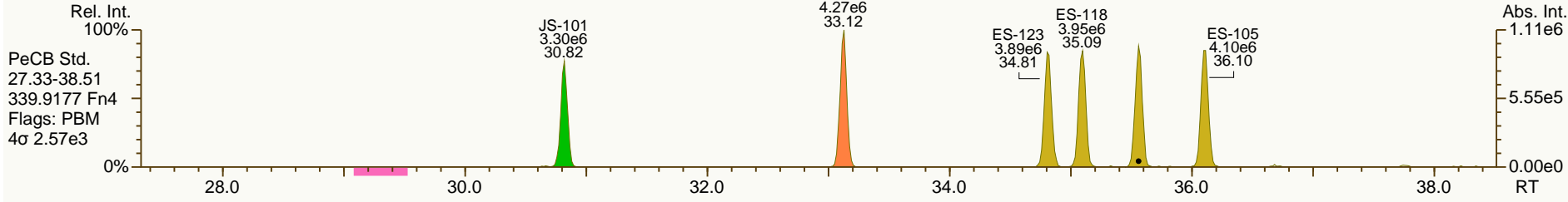
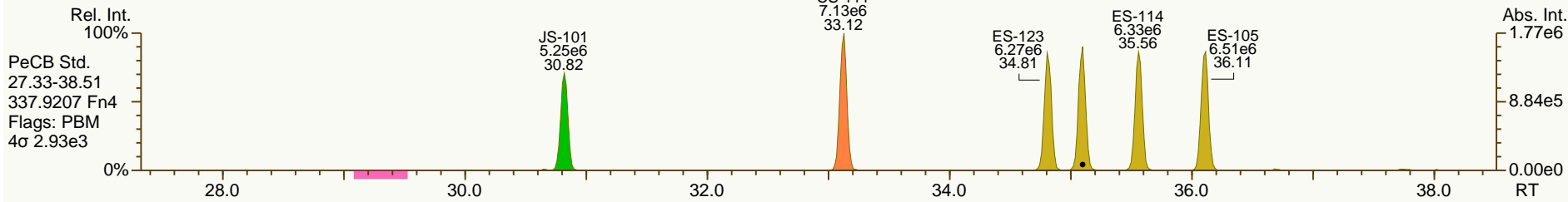
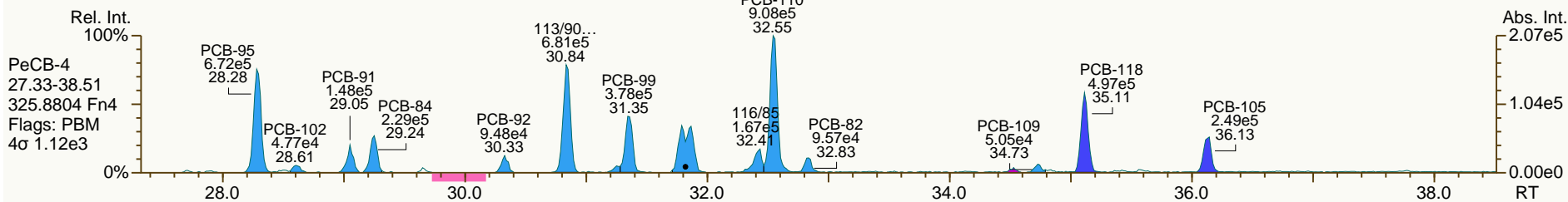
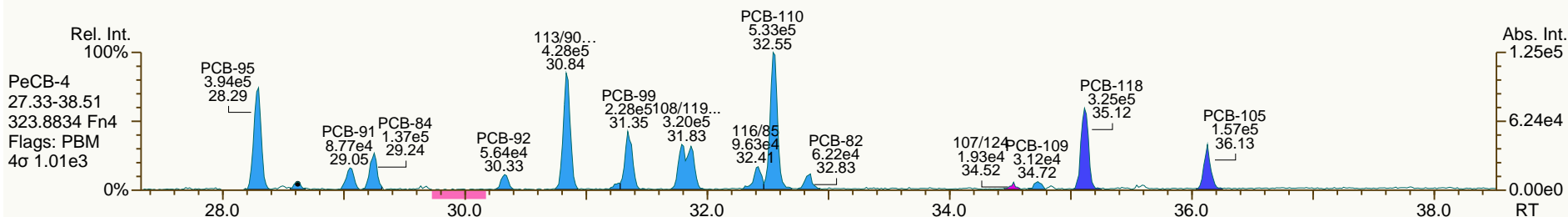
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SGS ID: A6492\_11883\_PCB\_002-RJ  
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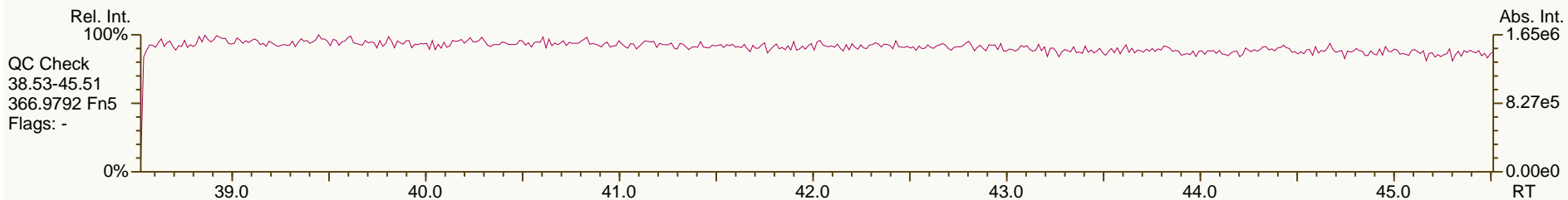
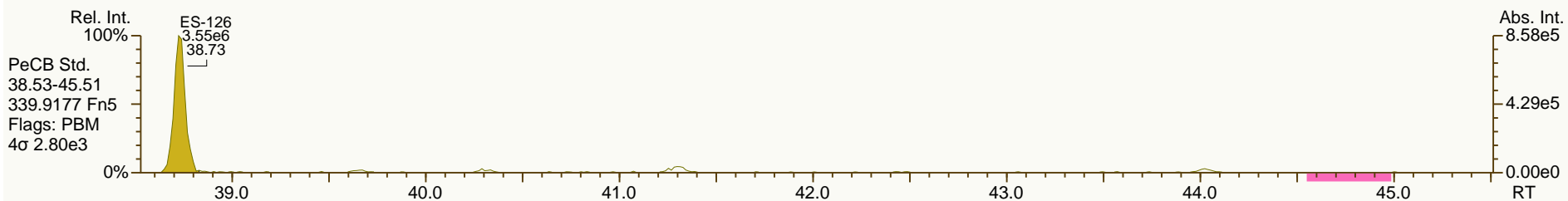
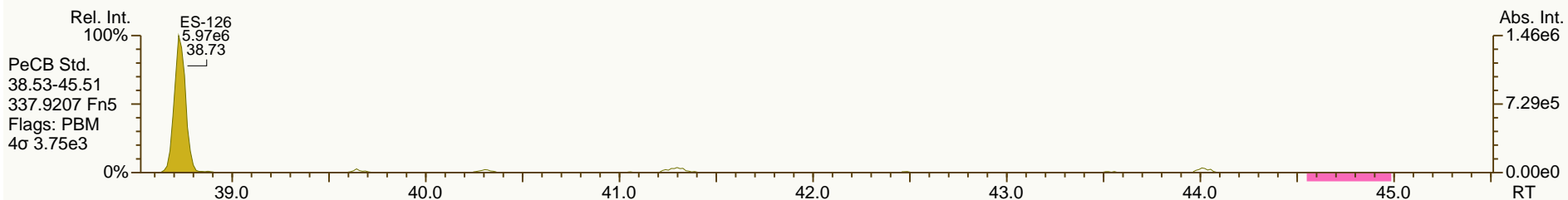
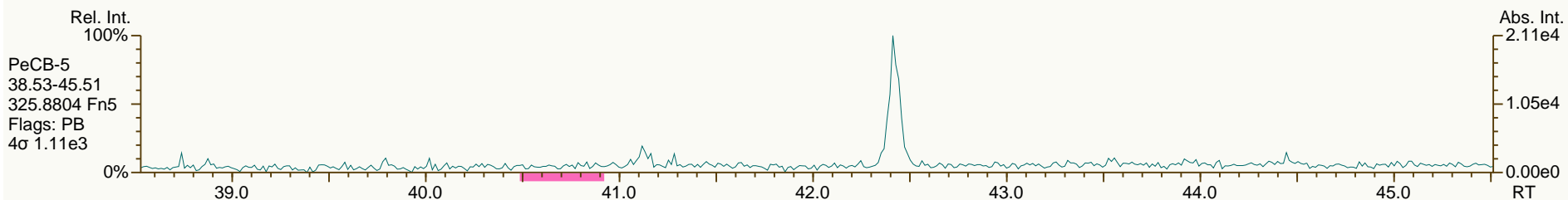
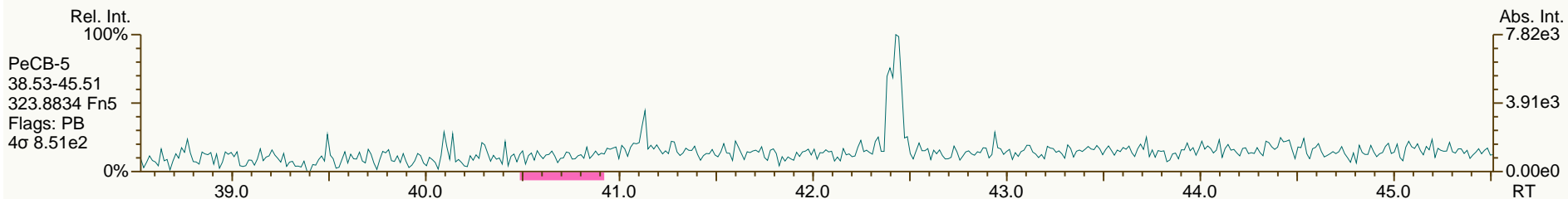
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SGS ID: A6492\_11883\_PCB\_002-RJ  
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Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
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SGS ID: A6492\_11883\_PCB\_002-RJ  
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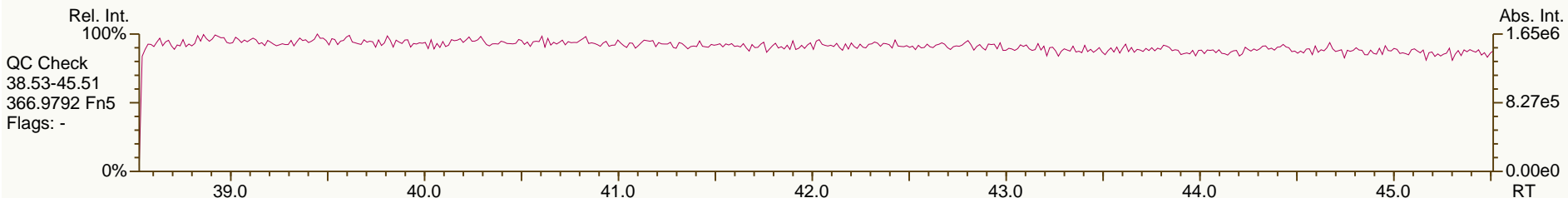
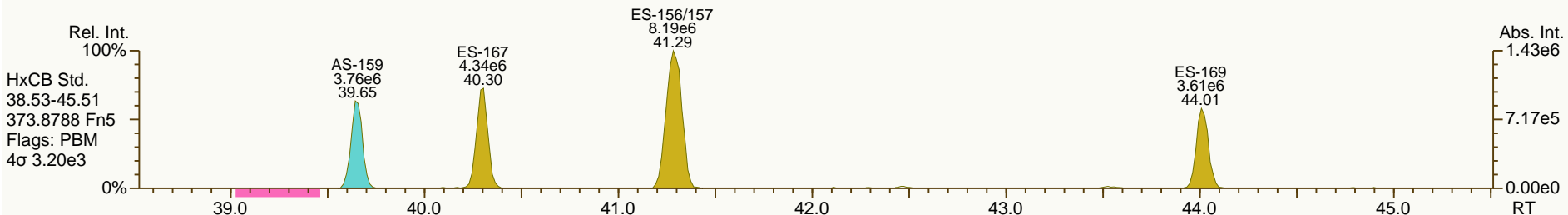
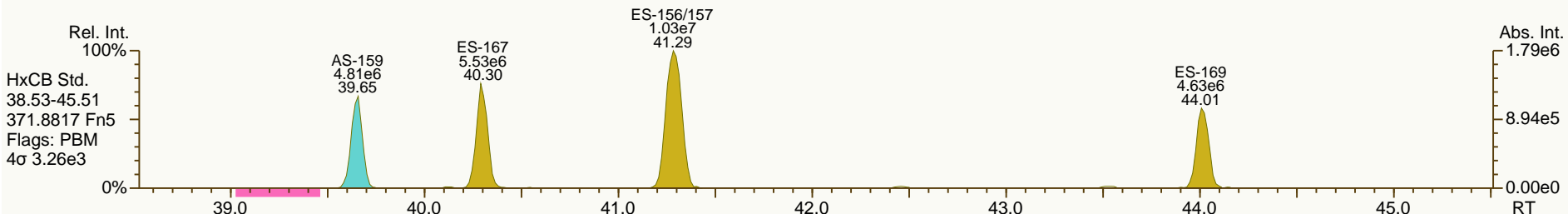
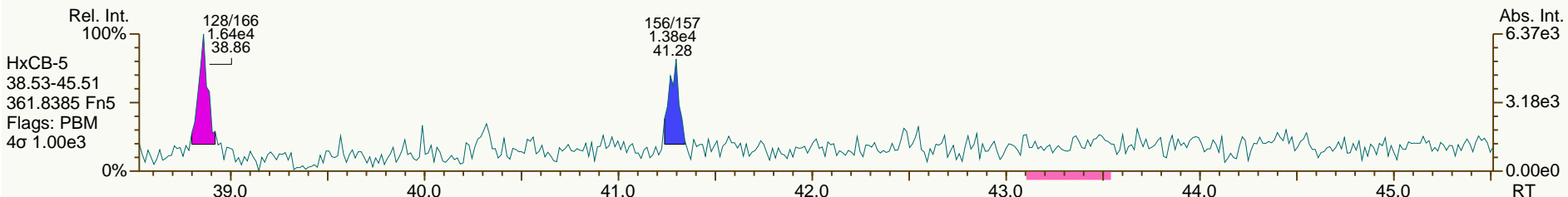
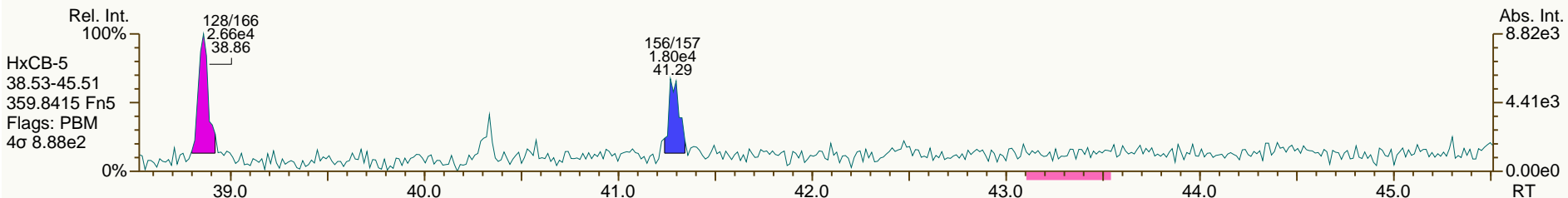
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SGS ID: A6492\_11883\_PCB\_002-RJ  
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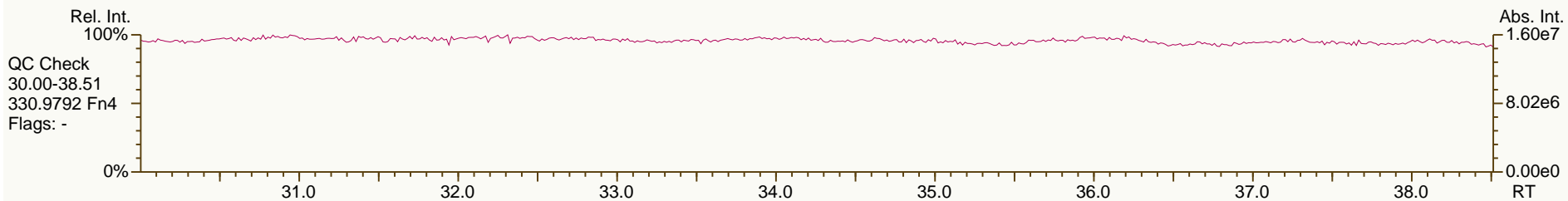
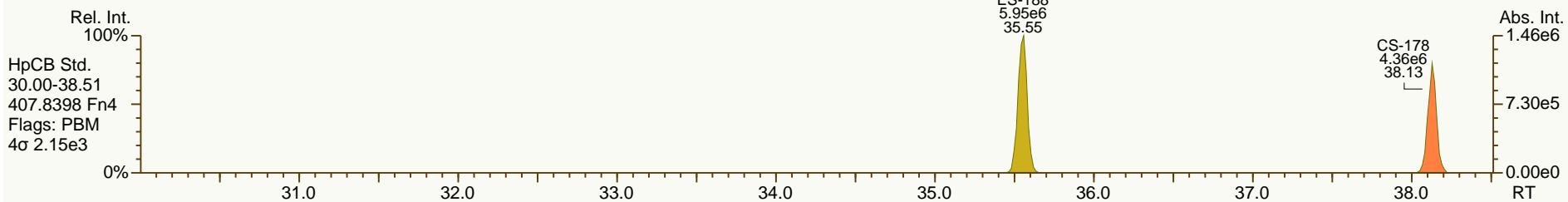
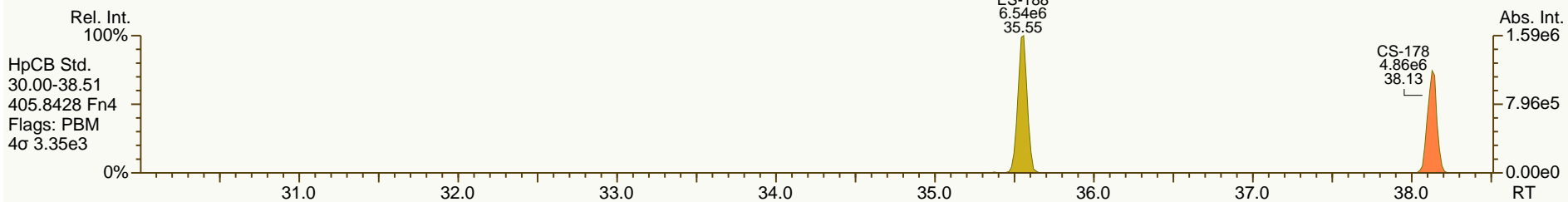
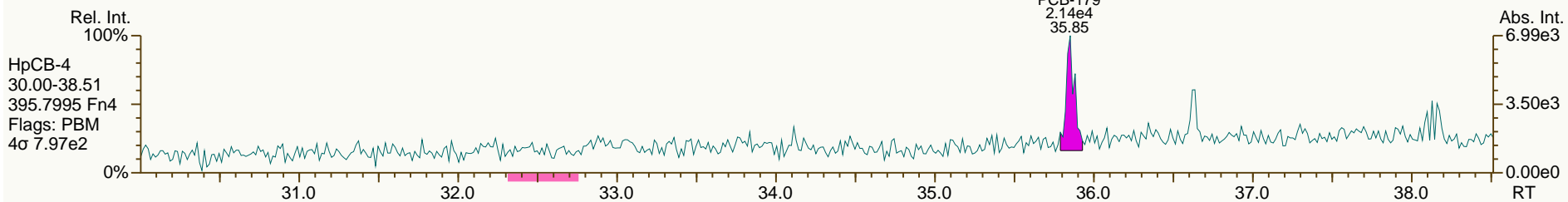
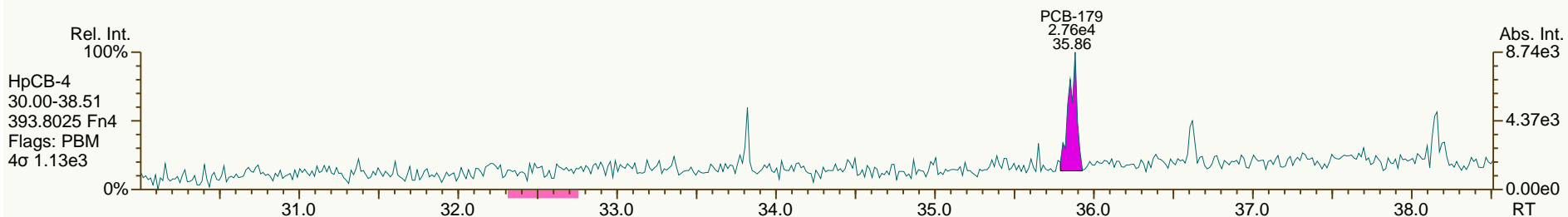
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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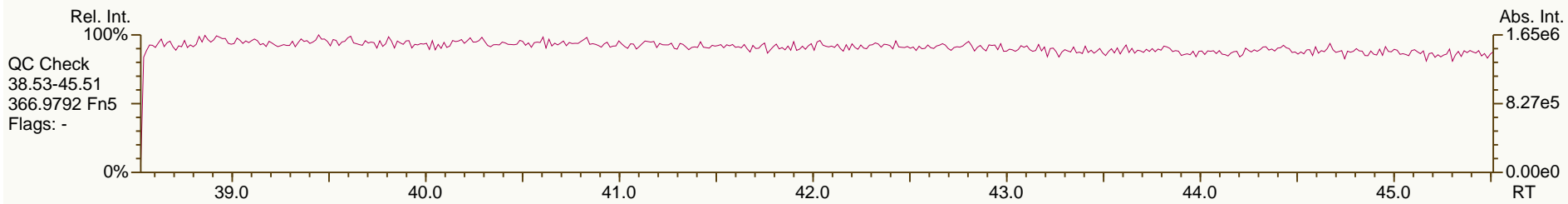
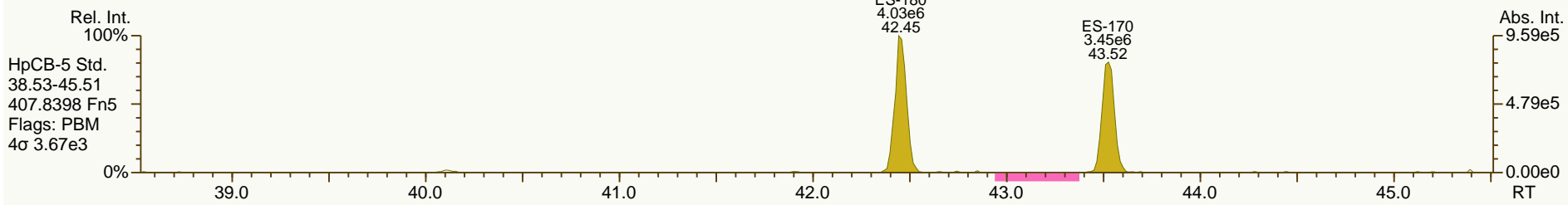
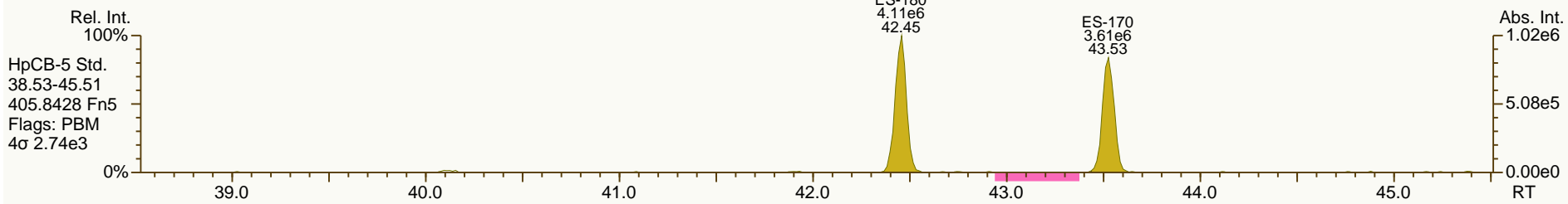
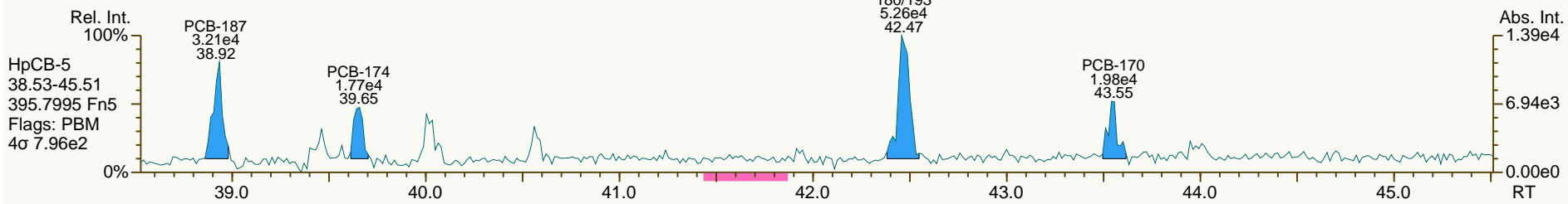
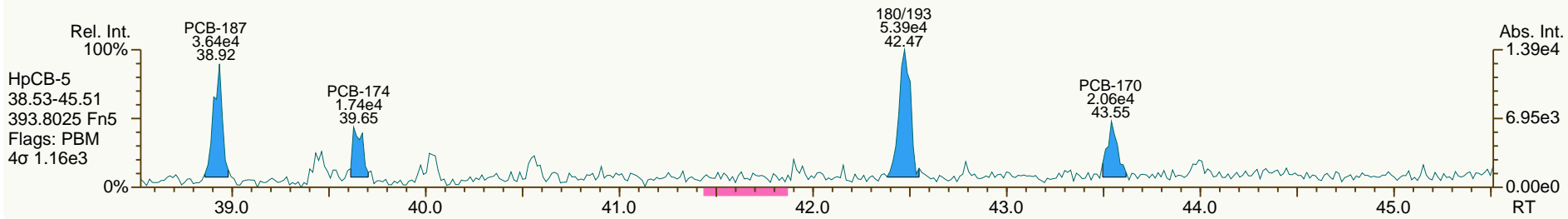
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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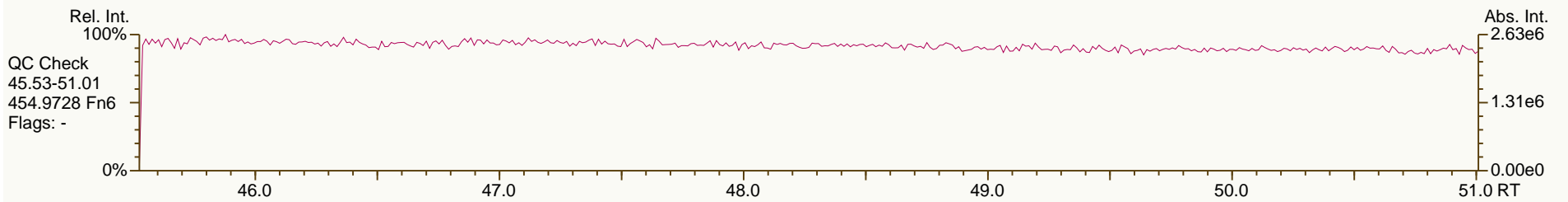
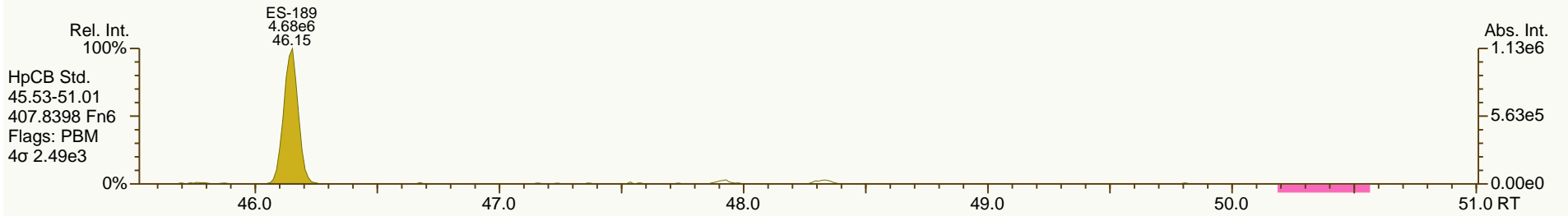
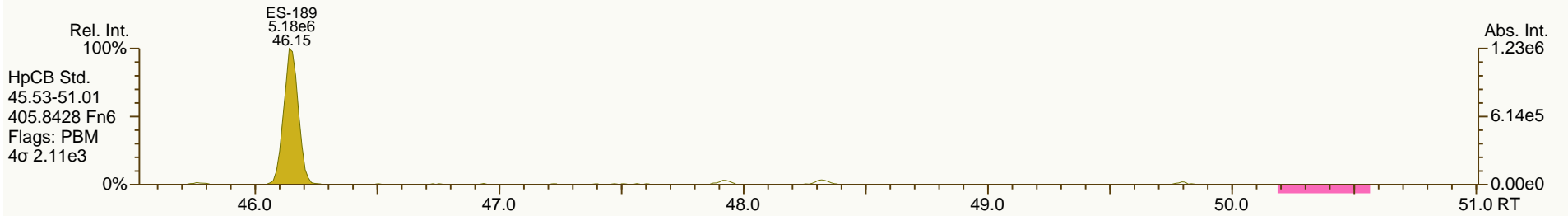
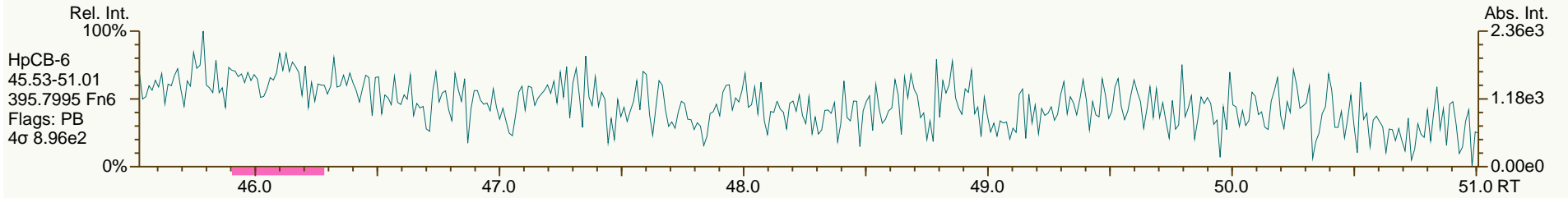
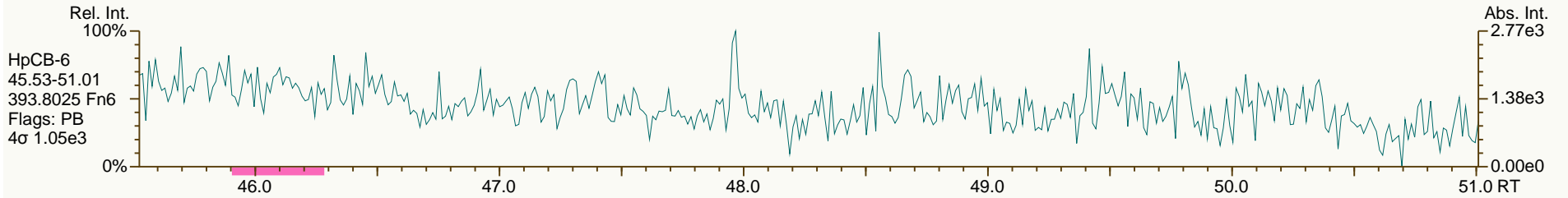
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
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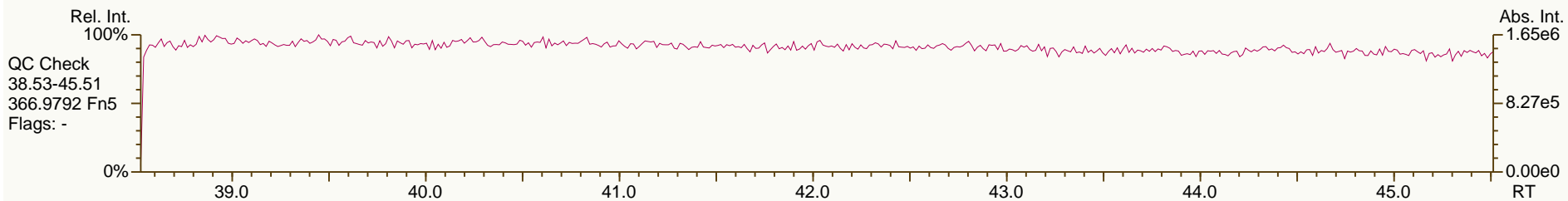
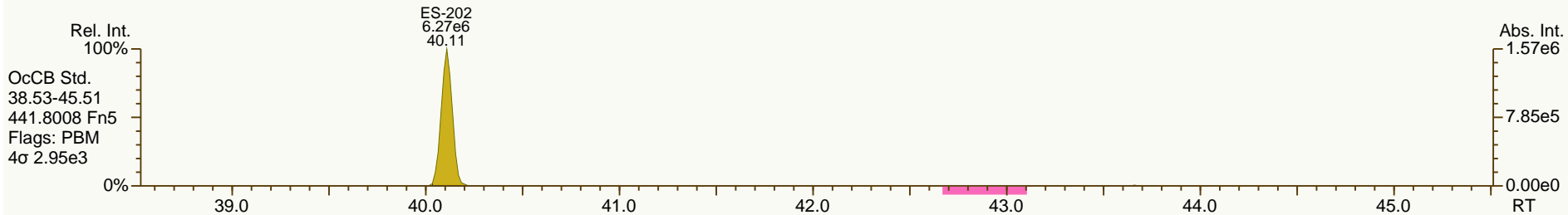
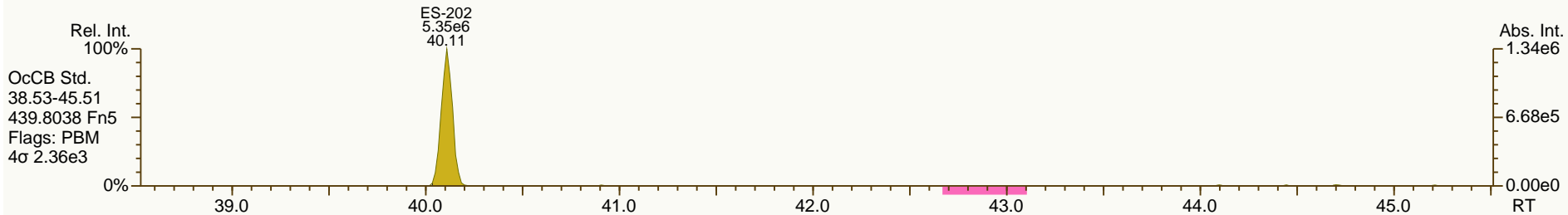
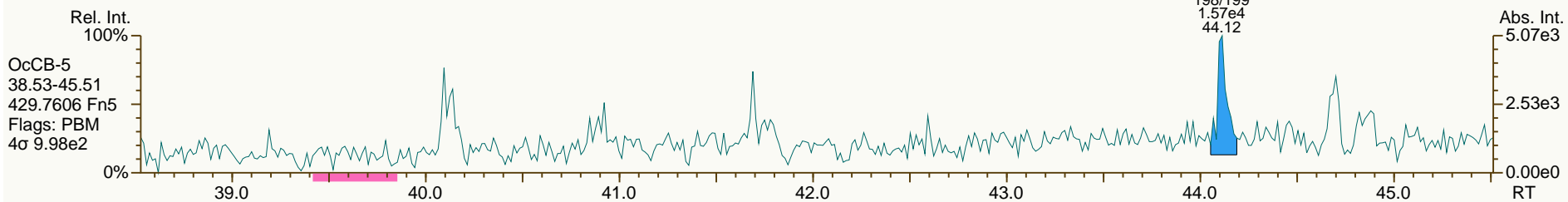
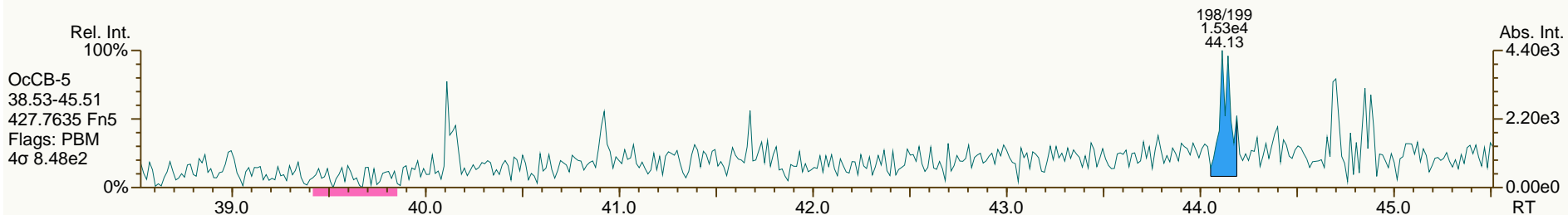




SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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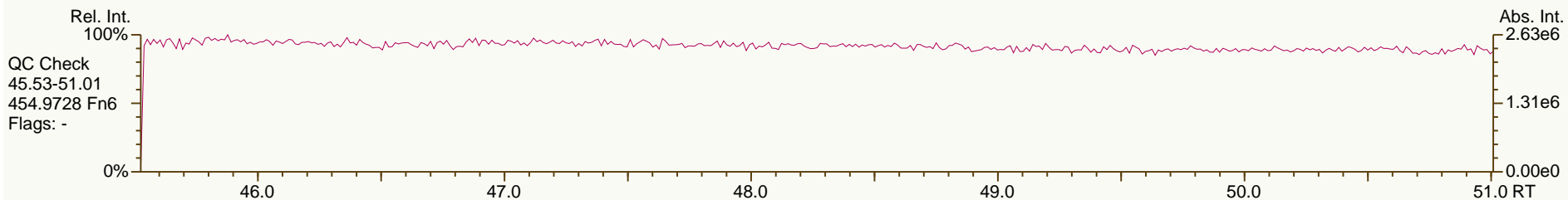
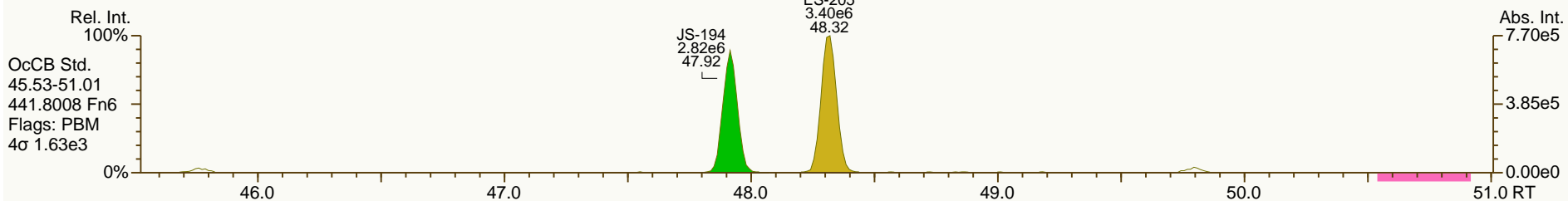
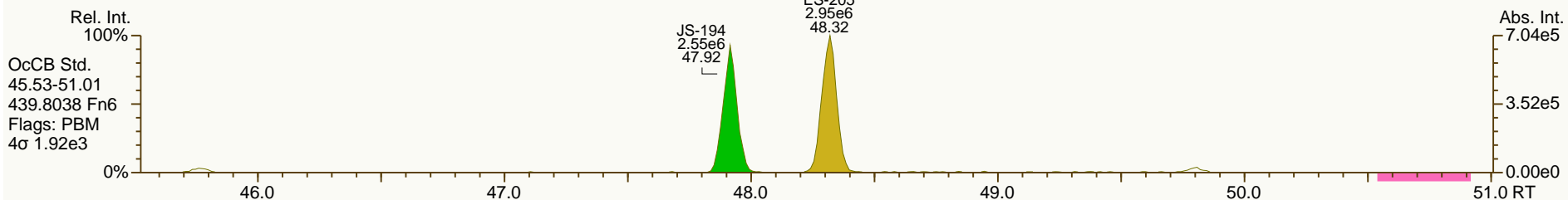
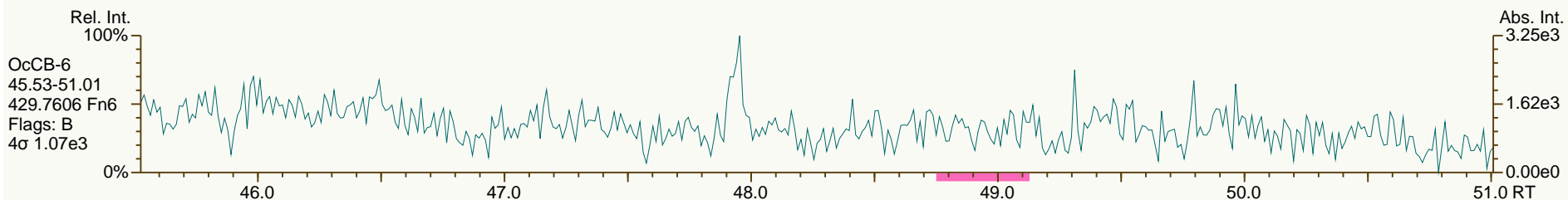
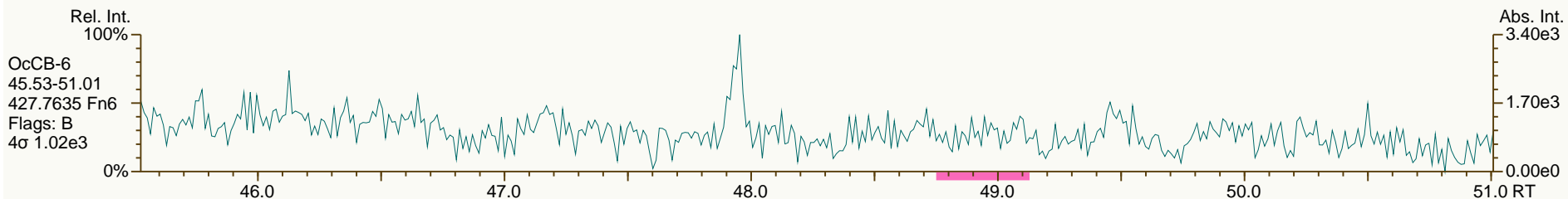
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SGS ID: A6492\_11883\_PCB\_002-RJ  
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Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
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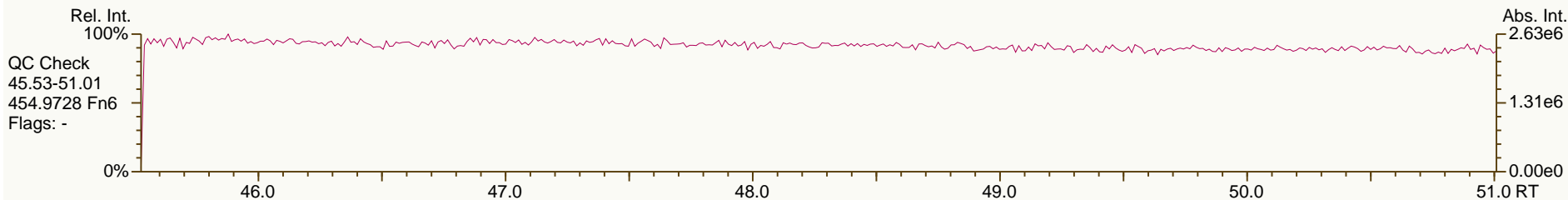
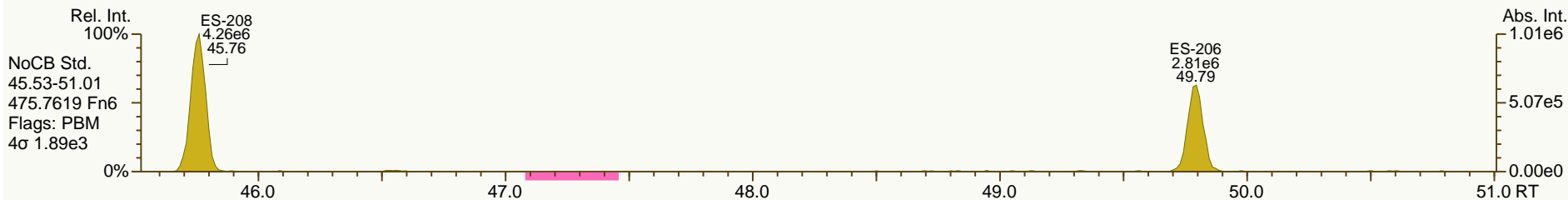
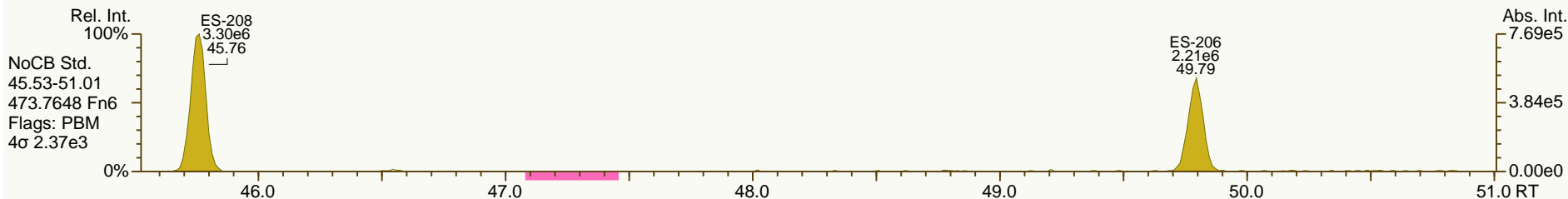
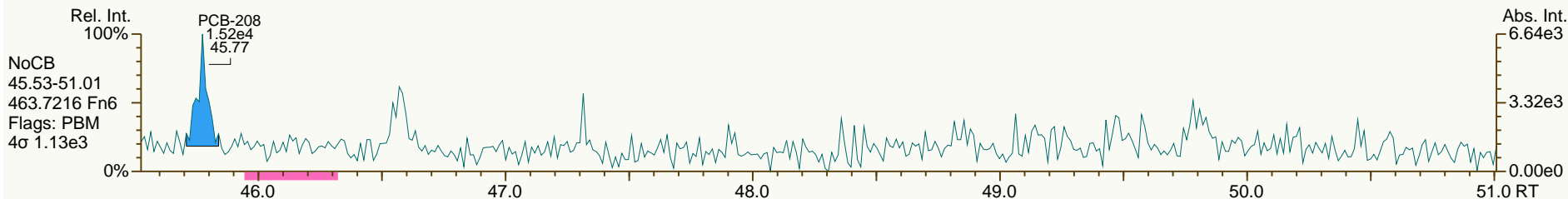
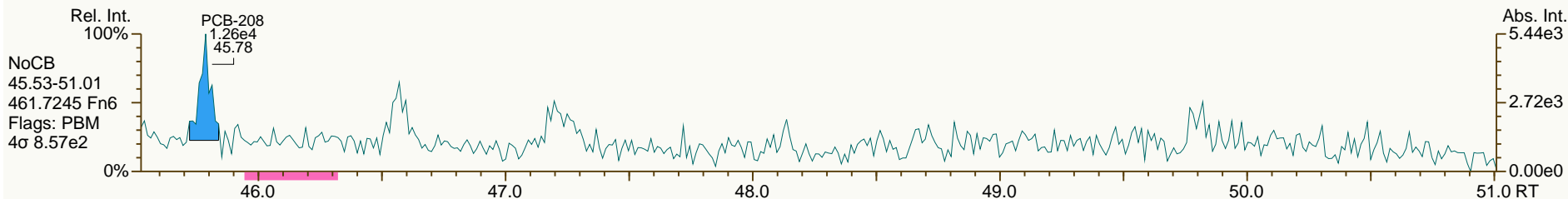
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SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

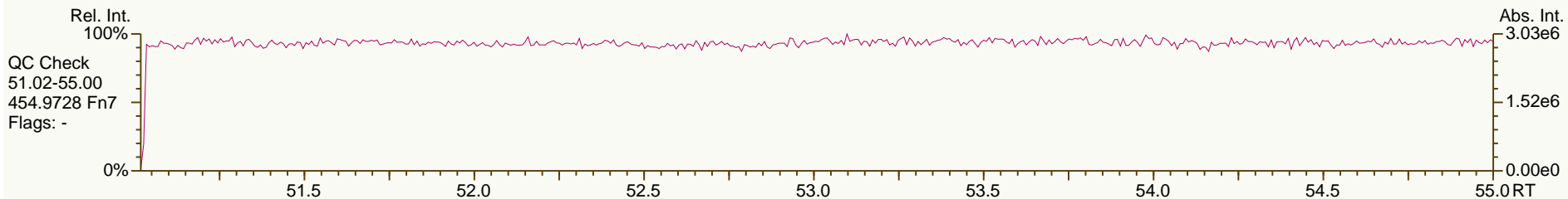
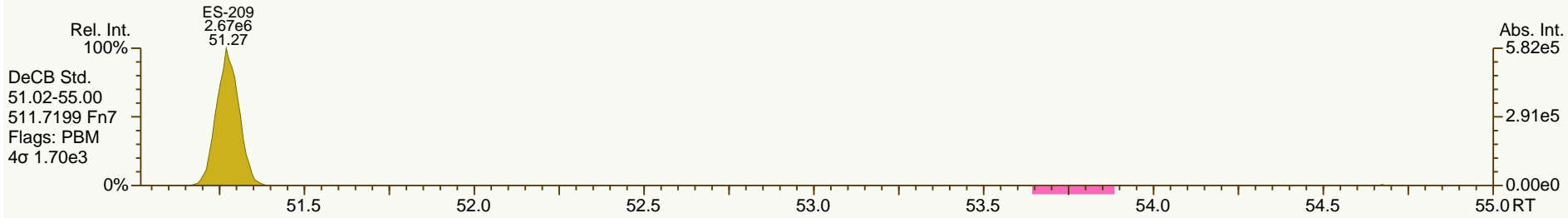
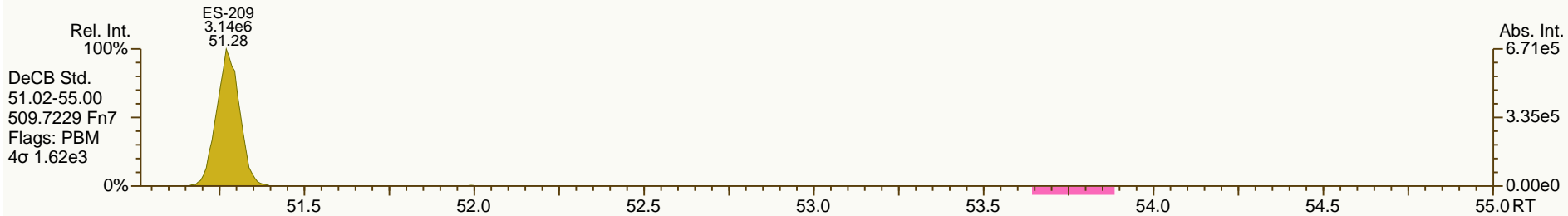
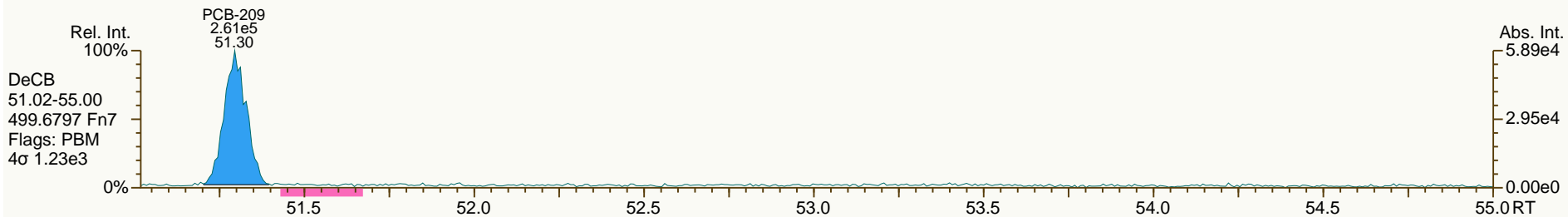
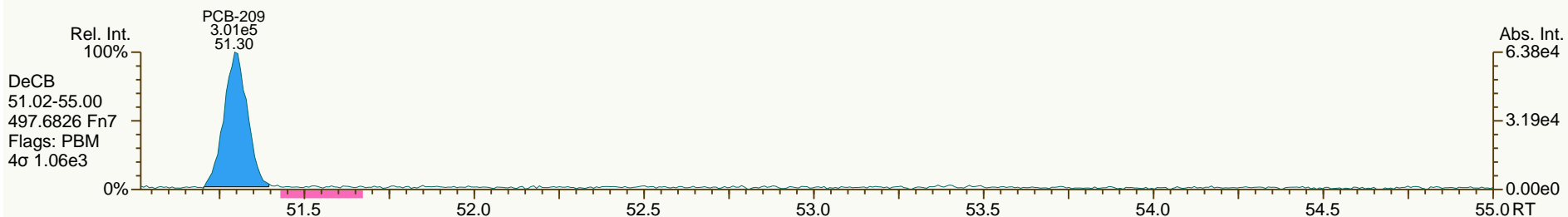
Acq: 24-Mar-2014 18:38:02  
 User: CTW Datafile: 140324S09



SGS ID: A6492\_11883\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-D (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 52

Acq: 24-Mar-2014 18:38:02  
 User: CTW Datafile: 140324S09



Lab ID: A6492\_11883\_PCB\_003-RJ

ACQ: 24-Mar-2014 19:37:08 CTW

Wt/Vol: 0.95 L

ICAL: MM4\_PCB\_10292013\_05FEB2014 CS3\_140324\_PCB\_SA

Client ID: PB006.2-1 SWMID-140311-N (Total)

UTP: 02-Apr-2014 13:07 JLJ

J-level: 10.5 pg/L Split: 1

Checkcode: 911-445-NVG

Datafile: 140324S10

RPT: 02-Apr-2014 13:08 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	33.13		1.0006	1.0006	0	7.74E+05	0.75	1.36	196	3.34E+03	8.44
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.32	ND	3.34E+03	10.2
PCB-105 233'44'-PeCB	36.13		1.0007	1.0006	-0.2	1.49E+06	0.66	1.03	591	2.41E+03	10.3
PCB-114 2344'5'-PeCB	35.58		1.0007	1.0005	-0.4	7.19E+04	0.56	1.13	26.3	2.41E+03	9.04
PCB-118 23'44'5'-PeCB	35.12		1.0007	1.0007	0	3.08E+06	0.61	1.13	1,170	2.41E+03	9.45
PCB-123 23'44'5'-PeCB	34.84		1.0007	1.0006	-0.2	6.47E+04	0.57	1.11	24.6	2.41E+03	9.08
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.33	ND	2.08E+03	6.96
PCB-156/157 ...-HxCB	41.30	EMPC C	1.0005	1.0002	-0.7	1.74E+05	1.06	1.09	78.6	1.82E+03	11.4
PCB-167 23'44'55'-HxCB	40.32		1.0006	1.0005	-0.2	6.88E+04	1.36	1.15	28	1.82E+03	7.76
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.10	ND	1.82E+03	10.1
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.21	ND	1.66E+03	7.82
PCB-209 DeCB	51.30		1.0004	1.0004	0	3.17E+06	1.18	1.07	3,660	1.69E+03	24.5
ES PCB-1	12.01		0.7239	0.7238	-0.1	4.72E+06	3.30	1.05	42.7 %	15%	150%
ES PCB-3	14.33		0.8639	0.8639	0	5.08E+06	3.27	0.97	49.9 %	15%	150%
ES PCB-4	14.59		0.8794	0.8793	-0.1	3.59E+06	1.54	0.66	51.8 %	25%	150%
ES PCB-15	20.37		1.2270	1.2276	+0.7	7.20E+06	1.64	1.09	63.1 %	25%	150%
ES PCB-19	17.71		1.0673	1.0674	+0.1	3.22E+06	1.03	0.55	55.9 %	25%	150%
ES PCB-37	26.74		1.0786	1.0787	+0.2	6.31E+06	1.08	1.44	78.9 %	25%	150%
ES PCB-54	20.65		0.8332	0.8330	-0.2	5.02E+06	0.82	1.42	63.6 %	25%	150%
ES PCB-77	33.11		1.3353	1.3357	+0.8	6.06E+06	0.80	1.26	86.8 %	25%	150%
ES PCB-81	32.63		1.3159	1.3163	+0.8	5.89E+06	0.77	1.27	83.9 %	25%	150%
ES PCB-104	25.66		0.8329	0.8327	-0.3	4.92E+06	1.56	1.56	67.9 %	25%	150%
ES PCB-105	36.11		1.1713	1.1716	+0.6	5.11E+06	1.50	1.23	89.1 %	25%	150%
ES PCB-114	35.56		1.1536	1.1539	+0.6	5.07E+06	1.54	1.20	90.5 %	25%	150%
ES PCB-118	35.09		1.1385	1.1387	+0.4	4.89E+06	1.61	1.13	92.9 %	25%	150%
ES PCB-123	34.81		1.1294	1.1296	+0.4	4.95E+06	1.55	1.16	91.4 %	25%	150%
ES PCB-126	38.73		1.2564	1.2568	+0.9	4.70E+06	1.66	1.22	82.8 %	25%	150%
ES PCB-153	36.69		0.9717	0.9717	0	4.44E+06	1.24	1.10	89.4 %	25%	150%
ES PCB-155	30.65		0.8119	0.8117	-0.4	5.58E+06	1.21	1.60	77.2 %	25%	150%
ES PCB-156/157	41.29		1.0935	1.0936	+0.2	8.49E+06	1.24	1.14	82.9 %	25%	150%
ES PCB-167	40.30		1.0673	1.0674	+0.2	4.48E+06	1.27	1.17	85 %	25%	150%
ES PCB-169	44.02		1.1656	1.1659	+0.8	3.55E+06	1.28	1.11	71.2 %	25%	150%
ES PCB-170	43.53		0.9084	0.9084	0	2.95E+06	1.05	1.18	74 %	25%	150%
ES PCB-180	42.46		0.8861	0.8860	-0.3	3.76E+06	1.08	1.44	79.1 %	25%	150%
ES PCB-188	35.55		0.7421	0.7419	-0.4	5.74E+06	1.17	1.52	83.8 %	25%	150%
ES PCB-189	46.15		0.9631	0.9631	0	3.71E+06	1.08	1.80	69.7 %	25%	150%
ES PCB-202	40.11		0.8372	0.8371	-0.2	5.59E+06	0.88	1.39	89.5 %	25%	150%
ES PCB-205	48.32		1.0084	1.0084	0	2.18E+06	0.85	1.26	58.6 %	25%	150%
ES PCB-206	49.79		1.0391	1.0392	+0.3	1.52E+06	0.74	1.00	51.5 %	25%	150%
ES PCB-208	45.76		0.9550	0.9550	0	3.10E+06	0.79	1.38	76.1 %	25%	150%
ES PCB-209	51.28		1.0701	1.0701	0	1.70E+06	1.16	1.26	45.7 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.16		0.9341	0.9341	0	8.77E+06	1.10	1.10	127 %	30%	135%
SS PCB-111	33.13		1.0747	1.0748	+0.2	5.71E+06	1.60	1.03	112 %	30%	135%
SS PCB-178	38.13		1.0099	1.0099	0	4.53E+06	1.12	0.62	127 %	30%	135%
CS PCB-28	23.16		0.9341	0.9341	0	8.77E+06	1.10	1.59	99.9 %	30%	135%
CS PCB-111	33.13		1.0747	1.0748	+0.2	5.71E+06	1.60	1.20	103 %	30%	135%
CS PCB-178	38.13		1.0099	1.0099	0	4.53E+06	1.12	0.94	107 %	30%	135%
JS PCB-9	16.59					1.05E+07	1.66				
JS PCB-52	24.79					5.54E+06	0.78				
JS PCB-101	30.82					4.66E+06	1.71				
JS PCB-138	37.76					4.51E+06	1.28				
JS PCB-194	47.92					2.95E+06	0.94				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
						Mono-CBs	56.6	73.2	6.39		
						Di-CBs	908	908	15.7		
						Tri-CBs	9,650	9,650	13.8		
						Tetra-CBs	20,800	20,800	9.42		
						Penta-CBs	9,860	9,910	8.79		
						Hexa-CBs	3,010	3,140	9.04		
						Hepta-CBs	941	1,090	10.2		
						Octa-CBs	149	272	12.5		
						Nona-CBs	289	289	23.5		
PCB-1 2-MoCB	12.02		1.0011	1.0010	-0.1	1.55E+05	3.10	1.21	56.6	2.60E+03	6.24
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.28	ND	2.60E+03	6.6
PCB-3 4-MoCB	14.35	EMPC	1.0010	1.0009	-0.1	5.23E+04	2.02	1.30	16.7	2.60E+03	6.53
PCB-4 22'-DiCB	14.60		1.0011	1.0010	-0.1	6.18E+05	1.53	0.98	368	3.51E+03	17.2
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00		1.59	ND	3.51E+03	10.6
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		1.16	ND	5.62E+03	14.5
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.29	ND	5.62E+03	13.1
PCB-6 23'-DiCB	17.00		1.0249	1.0248	-0.1	2.18E+05	1.38	1.21	52.4	5.62E+03	14
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00		1.20	ND	5.62E+03	14
PCB-8 24'-DiCB	17.43		1.0506	1.0507	+0.1	1.02E+06	1.68	1.22	244	5.62E+03	13.9
PCB-14 35-DiCB	NotFnd		0.9334	-		0.00E+00		1.40	ND	5.62E+03	12.1
PCB-11 33'-DiCB	19.80	B	0.9722	0.9722	0	1.84E+05	SI	1.17	45.9	5.62E+03	14.5
PCB-13/12 34'/34-DiCB	20.08	C	0.9867	0.9857	-1.2	9.01E+04	SI	1.15	22.8	5.62E+03	14.7
PCB-15 44'-DiCB	20.38		1.0008	1.0006	-0.2	7.12E+05	1.51	1.19	175	5.62E+03	14.2
PCB-19 22'6-TrCB	17.73		1.0010	1.0009	-0.1	3.53E+05	1.08	1.05	219	2.80E+03	17.1
PCB-30/18 246/22'5-TrCB	19.51	C	1.1013	1.1019	+0.7	4.30E+06	1.03	1.34	2,080	2.80E+03	13.4
PCB-17 22'4-TrCB	19.91		1.1242	1.1243	+0.1	1.31E+06	1.00	1.15	741	2.80E+03	15.7
PCB-27 23'6-TrCB	20.11		1.1352	1.1354	+0.2	2.92E+05	1.12	1.55	123	2.80E+03	11.6
PCB-24 236-TrCB	20.25		1.1429	1.1432	+0.4	4.83E+04	0.92	1.52	20.6	2.80E+03	11.8
PCB-16 22'3-TrCB	20.34		1.1485	1.1486	+0.1	9.45E+05	1.10	0.82	753	2.80E+03	22

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.82		1.1756	1.1758	+0.2	1.64E+06	1.03	1.67	642	2.80E+03	10.8
PCB-34 23'5'-TrCB	NotFnd		0.8222	-		0.00E+00		1.44	ND	3.97E+03	9.67
PCB-23 235-TrCB	NotFnd		0.8278	-		0.00E+00		1.44	ND	3.97E+03	9.72
PCB-26/29 23'5'/245-TrCB	22.40	C	0.8386	0.8375	-1.5	1.09E+06	1.07	1.47	248	3.97E+03	9.5
PCB-25 23'4-TrCB	22.62		0.8461	0.8459	-0.3	4.22E+05	1.14	1.45	96.8	3.97E+03	9.62
PCB-31 24'5-TrCB	22.90		0.8565	0.8564	-0.1	7.80E+06	1.06	1.52	1,700	3.97E+03	9.16
PCB-28/20 244'/233'-TrCB	23.18	C	0.8673	0.8667	-0.8	7.10E+06	1.05	1.42	1,660	3.97E+03	9.82
PCB-21/33 234/23'4'-TrCB	23.39	C	0.8741	0.8748	+1.0	2.64E+06	1.06	1.47	595	3.97E+03	9.47
PCB-22 234'-TrCB	23.75		0.8882	0.8881	-0.1	1.79E+06	1.04	1.36	436	3.97E+03	10.2
PCB-36 33'5-TrCB	NotFnd		0.9402	-		0.00E+00		1.50	ND	3.97E+03	9.29
PCB-39 34'5-TrCB	NotFnd		0.9523	-		0.00E+00		1.50	ND	3.97E+03	9.3
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.36	ND	3.97E+03	10.3
PCB-35 33'4-TrCB	26.40		0.9871	0.9872	+0.2	1.05E+05	1.11	1.27	27.3	3.97E+03	11
PCB-37 344'-TrCB	26.76		1.0007	1.0008	+0.2	1.23E+06	1.09	1.32	308	3.97E+03	10.5
PCB-54 22'66'-TeCB	20.68	EMPC	1.0010	1.0014	+0.5	2.59E+04	1.02	1.02	10.6	1.70E+03	7.07
PCB-50/53 22'46/22'56'-TeCB	22.65	C	0.9147	0.9136	-1.5	1.12E+06	0.75	0.94	426	2.42E+03	10.4
PCB-45 22'36-TeCB	23.27		0.9385	0.9385	0	9.57E+05	0.76	0.82	418	2.42E+03	11.9
PCB-51 22'46'-TeCB	23.34		0.9415	0.9415	0	3.67E+05	0.72	0.93	140	2.42E+03	10.4
PCB-46 22'36'-TeCB	23.55		0.9501	0.9500	-0.1	3.55E+05	0.79	0.77	164	2.42E+03	12.6
PCB-52 22'55'-TeCB	24.81		1.0009	1.0009	0	8.22E+06	0.78	0.88	3,310	2.42E+03	11
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	2.42E+03	7.92
PCB-43 22'35-TeCB	25.04		1.0101	1.0100	-0.2	1.74E+05	0.71	0.72	86.5	2.42E+03	13.6
PCB-69/49 23'46/22'45'-TeCB	25.26	C	1.0180	1.0188	+1.2	5.15E+06	0.78	1.08	1,690	2.42E+03	8.99
PCB-48 22'45-TeCB	25.52		1.0294	1.0294	0	1.22E+06	0.79	0.89	486	2.42E+03	10.9
PCB-44/47/65 ...-TeCB	25.71	C	1.0382	1.0373	-1.4	7.18E+06	0.79	0.96	2,660	2.42E+03	10.1
PCB-59/62/75 ...-TeCB	26.01	C	1.0494	1.0491	-0.5	6.28E+05	0.77	1.23	181	2.42E+03	7.87
PCB-42 22'34'-TeCB	26.18		1.0562	1.0562	0	1.52E+06	0.80	0.80	674	2.42E+03	12.1
PCB-41 22'34-TeCB	26.51		1.0697	1.0695	-0.3	3.28E+05	0.75	0.73	160	2.42E+03	13.3
PCB-71/40 23'4'6/22'33'-TeCB	26.62	C	1.0736	1.0737	+0.2	3.04E+06	0.79	0.92	1,180	2.42E+03	10.6
PCB-64 234'6-TeCB	26.82		1.0816	1.0817	+0.2	4.01E+06	0.78	1.31	1,090	2.42E+03	7.44
PCB-72 23'55'-TeCB	27.54	EMPC	0.8441	0.8438	-0.5	9.70E+04	0.90	1.45	23.9	3.34E+03	9.28
PCB-68 23'45'-TeCB	27.80		0.8519	0.8519	0	1.42E+05	0.87	1.56	32.3	3.34E+03	8.58
PCB-57 233'5-TeCB	NotFnd		0.8634	-		0.00E+00		1.41	ND	3.34E+03	9.53
PCB-58 233'5'-TeCB	NotFnd		0.8697	-		0.00E+00		1.44	ND	3.34E+03	9.32
PCB-67 23'45-TeCB	28.53		0.8745	0.8743	-0.3	2.03E+05	0.84	1.49	48.5	3.34E+03	9
PCB-63 234'5-TeCB	28.76		0.8815	0.8813	-0.3	3.12E+05	0.80	1.58	70.5	3.34E+03	8.51
PCB-61/70/74/76 ...-TeCB	29.06	C	0.8904	0.8906	+0.3	1.63E+07	0.80	1.45	4,000	3.34E+03	9.26
PCB-66 23'44'-TeCB	29.34		0.8991	0.8990	-0.2	9.16E+06	0.80	1.39	2,340	3.34E+03	9.64
PCB-55 233'4-TeCB	NotFnd		0.9037	-		0.00E+00		1.35	ND	3.34E+03	9.92
PCB-56 233'4'-TeCB	29.92		0.9172	0.9170	-0.4	3.75E+06	0.77	1.34	1,000	3.34E+03	10
PCB-60 2344'-TeCB	30.12		0.9231	0.9230	-0.2	1.64E+06	0.73	1.36	428	3.34E+03	9.83
PCB-80 33'55'-TeCB	NotFnd		0.9331	-		0.00E+00		1.60	ND	3.34E+03	8.41
PCB-79 33'45'-TeCB	NotFnd		0.9739	-		0.00E+00		1.59	ND	3.34E+03	8.45
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.30	ND	3.34E+03	10.3
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.02	ND	1.84E+03	7.98
PCB-96 22'366'-PeCB	26.01		1.0134	1.0134	0	8.67E+04	0.59	0.90	41.1	1.84E+03	9.06
PCB-103 22'45'6-PeCB	NotFnd		0.8992	-		0.00E+00		0.94	ND	2.41E+03	10.8
PCB-94 22'356'-PeCB	NotFnd		0.9054	-		0.00E+00		0.81	ND	2.41E+03	12.5

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.29		0.9179	0.9178	-0.2	2.37E+06	0.63	0.87	1,150	2.41E+03	11.6
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9247	-		0.00E+00		0.86	ND	2.41E+03	11.7
PCB-102 22'456'-PeCB	28.61		0.9283	0.9283	0	1.79E+05	0.65	0.96	79.5	2.41E+03	10.6
PCB-98 22'34'6'-PeCB	NotFnd		0.9307	-		0.00E+00		0.83	ND	2.41E+03	12.2
PCB-88 22'346-PeCB	NotFnd		0.9405	-		0.00E+00		0.84	ND	2.41E+03	12
PCB-91 22'34'6-PeCB	29.05		0.9426	0.9425	-0.2	6.64E+05	0.56	0.92	307	2.41E+03	11
PCB-84 22'33'6-PeCB	29.25		0.9490	0.9490	0	8.71E+05	0.58	0.74	499	2.41E+03	13.7
PCB-89 22'346'-PeCB	29.66	EMPC	0.9626	0.9625	-0.2	5.85E+04	0.48	0.78	31.6	2.41E+03	12.9
PCB-121 23'45'6-PeCB	NotFnd		0.9737	-		0.00E+00		1.19	ND	2.41E+03	8.49
PCB-92 22'355'-PeCB	30.33		0.9841	0.9841	0	4.41E+05	0.62	0.82	228	2.41E+03	12.4
PCB-113/90/101 ...-PeCB	30.84	C	0.9999	1.0007	+1.5	3.12E+06	0.60	0.96	1,370	2.41E+03	10.5
PCB-83 22'33'5-PeCB	31.24		1.0141	1.0138	-0.6	1.01E+05	0.64	0.68	63.2	2.41E+03	14.9
PCB-99 22'44'5-PeCB	31.35		1.0172	1.0172	0	1.88E+06	0.63	0.97	824	2.41E+03	10.5
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.14	ND	2.41E+03	8.89
PCB-108/119/86/97/125...-PeCB	31.83	C	1.0319	1.0327	+1.5	2.44E+06	0.62	0.98	1,050	2.41E+03	10.3
PCB-117 234'56-PeCB	32.33		1.0492	1.0491	-0.2	1.04E+05	0.63	1.07	41.1	2.41E+03	9.45
PCB-116/85 23456/22'344'-PeCB	32.42	C	1.0522	1.0518	-0.8	7.13E+05	0.60	0.99	303	2.41E+03	10.2
PCB-110 233'4'6-PeCB	32.55		1.0560	1.0562	+0.4	4.20E+06	0.62	1.05	1,690	2.41E+03	9.64
PCB-115 2344'6-PeCB	32.64		1.0588	1.0590	+0.4	1.08E+05	0.59	1.18	38.9	2.41E+03	8.58
PCB-82 22'33'4-PeCB	32.83		1.0653	1.0654	+0.2	3.74E+05	0.64	0.71	224	2.41E+03	14.3
PCB-111 233'55'-PeCB	NotFnd		1.0754	-		0.00E+00		1.20	ND	2.41E+03	8.45
PCB-120 23'455'-PeCB	NotFnd		1.0884	-		0.00E+00		1.19	ND	2.41E+03	8.49
PCB-107/124 ...-PeCB	34.52	C	0.9916	0.9917	+0.2	1.04E+05	0.63	1.09	40	2.41E+03	9.24
PCB-109 233'46-PeCB	34.74		0.9975	0.9978	+0.6	2.40E+05	0.61	1.14	89.4	2.41E+03	8.91
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.06	ND	2.41E+03	9.55
PCB-122 233'4'5'-PeCB	35.42	EMPC	1.0091	1.0092	+0.2	3.43E+04	0.89	0.99	14.3	2.41E+03	10.3
PCB-127 33'455'-PeCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	2.41E+03	10
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.93E+03	6.82
PCB-152 22'3566'-HxCB	NotFnd		1.0061	-		0.00E+00		1.02	ND	1.93E+03	7.36
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.02	ND	1.93E+03	7.38
PCB-136 22'33'66'-HxCB	31.29		1.0208	1.0209	+0.2	2.89E+05	1.29	0.95	114	1.93E+03	7.93
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		0.98	ND	1.93E+03	7.69
PCB-148 22'34'56'-HxCB	NotFnd		1.0713	-		0.00E+00		1.05	ND	1.93E+03	8.96
PCB-151/135 ...-HxCB	33.35	C	1.0884	1.0883	-0.2	4.77E+05	1.13	1.02	221	1.93E+03	9.22
PCB-154 22'44'56'-HxCB	NotFnd		1.0952	-		0.00E+00		1.17	ND	1.93E+03	8.07
PCB-144 22'345'6-HxCB	33.84		1.1038	1.1041	+0.6	6.68E+04	1.31	1.05	30.1	1.93E+03	8.99
PCB-147/149 ...-HxCB	34.13	C	1.1137	1.1138	+0.2	1.32E+06	1.27	1.05	594	1.93E+03	8.96
PCB-134 22'33'56-HxCB	34.31	EMPC	1.1196	1.1197	+0.2	5.80E+04	1.53	0.89	30.9	1.93E+03	10.6
PCB-143 22'3456'-HxCB	NotFnd		1.1222	-		0.00E+00		0.96	ND	1.93E+03	9.82
PCB-139/140 ...-HxCB	NotFnd	C	1.1308	-		0.00E+00		1.06	ND	1.93E+03	8.85
PCB-131 22'33'46-HxCB	NotFnd		1.1365	-		0.00E+00		0.92	ND	1.93E+03	10.3
PCB-142 22'3456-HxCB	NotFnd		1.1412	-		0.00E+00		0.92	ND	1.93E+03	10.2
PCB-132 22'33'46'-HxCB	35.22		1.1489	1.1492	+0.6	4.54E+05	1.35	0.93	229	1.93E+03	10.1
PCB-133 22'33'55'-HxCB	NotFnd		1.1621	-		0.00E+00		0.97	ND	1.93E+03	9.67
PCB-165 233'55'6-HxCB	NotFnd		0.9526	-		0.00E+00		1.22	ND	1.93E+03	7.69
PCB-146 22'34'55'-HxCB	36.18		0.9583	0.9582	-0.2	2.38E+05	1.18	1.07	105	1.93E+03	8.81
PCB-161 233'45'6-HxCB	NotFnd		0.9615	-		0.00E+00		1.32	ND	1.93E+03	7.12
PCB-153/168 ...-HxCB	36.71	C	0.9729	0.9722	-1.5	1.48E+06	1.28	1.26	558	1.93E+03	7.5

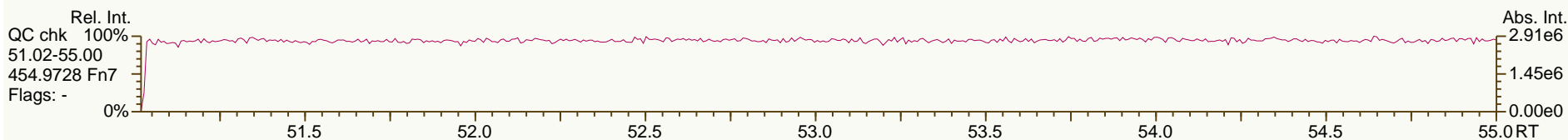
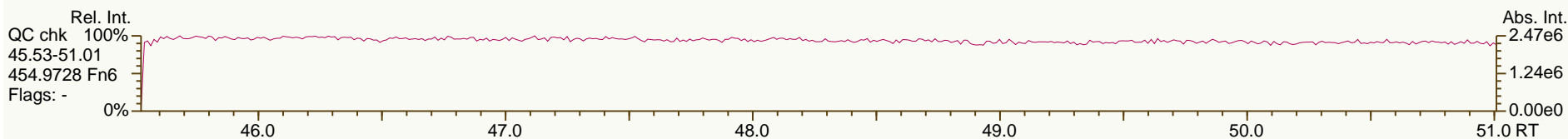
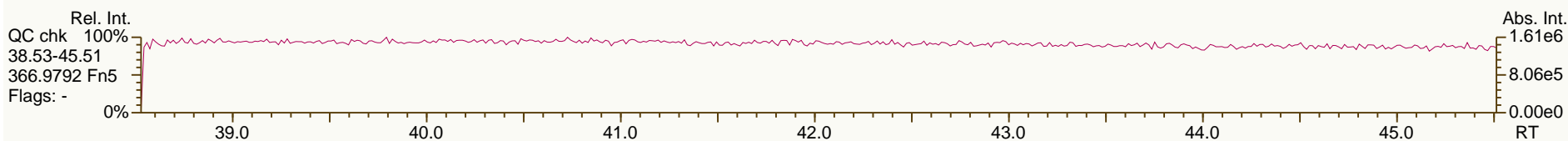
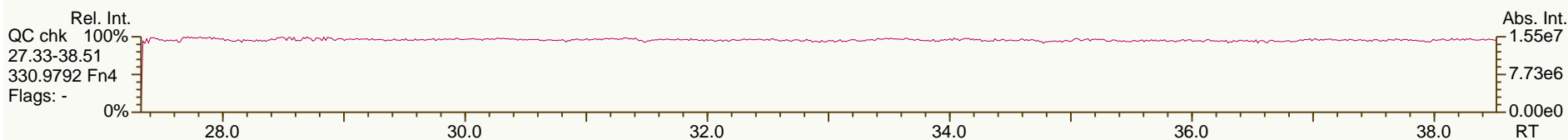
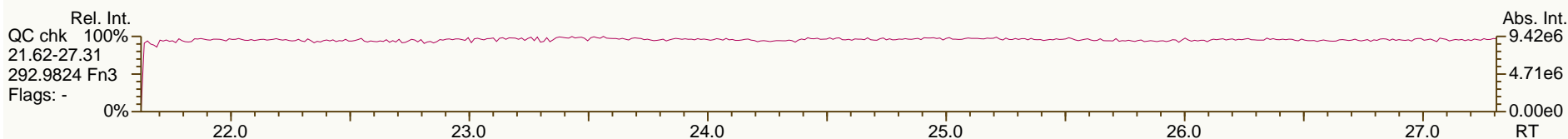
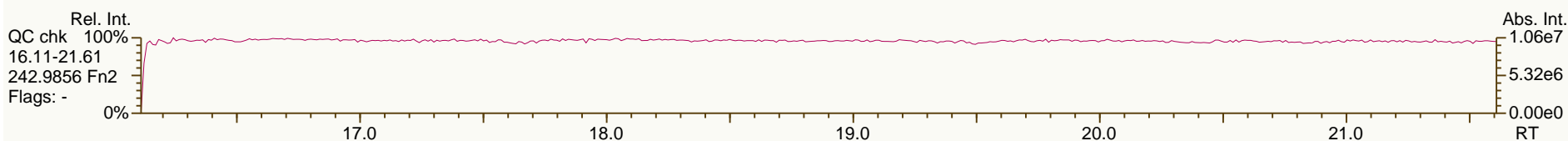
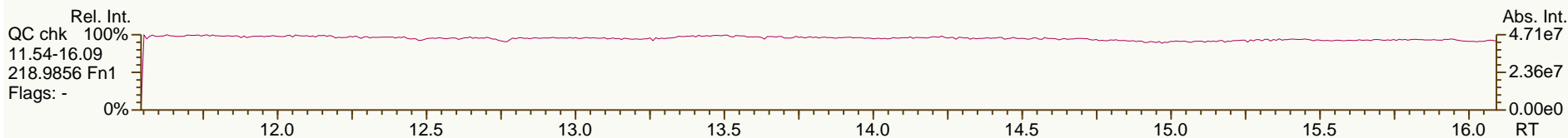


Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.88		0.9767	0.9767	0	2.17E+05	1.17	1.00	102	1.93E+03	9.4
PCB-130 22'33'45'-HxCB	37.22		0.9859	0.9859	0	9.96E+04	1.20	0.88	53.8	1.93E+03	10.8
PCB-137 22'344'5-HxCB	37.41	EMPC	0.9911	0.9909	-0.4	4.15E+04	1.50	1.00	19.6	1.93E+03	9.44
PCB-164 233'4'5'6-HxCB	37.49		0.9933	0.9931	-0.4	1.42E+05	1.14	1.36	49.2	1.93E+03	6.92
PCB-163/138/129 ...-HxCB	37.78	C	1.0011	1.0007	-0.9	1.66E+06	1.22	1.06	739	1.93E+03	8.86
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.24	ND	1.93E+03	7.61
PCB-158 233'44'6-HxCB	38.11		1.0096	1.0095	-0.2	1.86E+05	1.33	1.36	64.7	1.93E+03	6.94
PCB-128/166 ...-HxCB	38.87	C	0.9642	0.9645	+0.7	2.46E+05	1.12	0.95	121	1.82E+03	9.37
PCB-159 233'455'-HxCB	NotFnd		0.9845	-		0.00E+00		1.12	ND	1.82E+03	8
PCB-162 233'4'55'-HxCB	NotFnd		0.9904	-		0.00E+00		1.12	ND	1.82E+03	7.97
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.10	ND	2.22E+03	6.93
PCB-179 22'33'566'-HpCB	35.86		1.0087	1.0087	0	1.85E+05	0.90	1.03	65.3	2.22E+03	7.35
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		0.99	ND	2.22E+03	7.66
PCB-176 22'33'466'-HpCB	36.61		1.0299	1.0299	0	3.78E+04	1.09	1.12	12.4	2.22E+03	6.82
PCB-186 22'34566'-HpCB	NotFnd		1.0412	-		0.00E+00		1.04	ND	2.22E+03	7.32
PCB-178 22'33'55'6-HpCB	38.15	EMPC	1.0730	1.0730	0	5.04E+04	1.45	0.77	24	2.22E+03	9.94
PCB-175 22'33'45'6-HpCB	NotFnd		1.0884	-		0.00E+00		1.04	ND	2.16E+03	12.3
PCB-187 22'34'55'6-HpCB	38.93		1.0948	1.0949	+0.2	3.41E+05	1.02	1.10	173	2.16E+03	11.6
PCB-182 22'344'56'-HpCB	NotFnd		1.0999	-		0.00E+00		1.13	ND	2.16E+03	11.4
PCB-183 22'344'5'6-HpCB	39.45	EMPC	1.1096	1.1097	+0.2	1.56E+05	0.87	1.14	76.1	2.16E+03	11.2
PCB-185 22'3455'6-HpCB	NotFnd		1.1121	-		0.00E+00		1.08	ND	2.16E+03	11.8
PCB-174 22'33'456'-HpCB	39.65		1.1152	1.1152	0	2.19E+05	1.02	0.92	132	2.16E+03	13.9
PCB-177 22'33'45'6'-HpCB	40.02		1.1257	1.1257	0	1.52E+05	1.17	0.93	91.6	2.16E+03	13.9
PCB-181 22'344'56-HpCB	NotFnd		1.1355	-		0.00E+00		1.05	ND	2.16E+03	12.3
PCB-171/173 ...-HpCB	40.56	C	1.1407	1.1409	+0.5	8.53E+04	1.03	0.93	51.1	2.16E+03	13.8
PCB-172 22'33'455'-HpCB	41.92	EMPC	0.9083	0.9083	0	3.97E+04	1.46	0.93	23.9	2.16E+03	13.8
PCB-192 233'455'6-HpCB	NotFnd		0.9137	-		0.00E+00		1.20	ND	2.16E+03	10.7
PCB-180/193 ...-HpCB	42.47	C	0.9197	0.9203	+1.5	5.62E+05	1.07	1.13	279	2.16E+03	11.4
PCB-191 233'44'5'6-HpCB	NotFnd		0.9269	-		0.00E+00		1.23	ND	2.16E+03	10.5
PCB-170 22'33'44'5-HpCB	43.55		0.9437	0.9437	0	2.04E+05	0.97	1.06	137	2.16E+03	15.9
PCB-190 233'44'56-HpCB	44.00	EMPC	0.9535	0.9535	0	4.89E+04	0.85	1.42	24.6	2.16E+03	11.9
PCB-202 22'33'55'66'-OoCB	40.13		1.0005	1.0005	0	8.76E+04	0.91	0.83	39.7	2.00E+03	9.56
PCB-201 22'33'45'66'-OoCB	40.92	EMPC	1.0202	1.0201	-0.2	3.31E+04	1.12	0.90	13.9	2.00E+03	8.83
PCB-204 22'344'566'-OoCB	NotFnd		1.0346	-		0.00E+00		0.84	ND	2.00E+03	9.45
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0394	-		0.00E+00		0.94	ND	2.00E+03	8.43
PCB-200 22'33'4566'-OoCB	NotFnd		1.0417	-		0.00E+00		0.83	ND	2.00E+03	9.55
PCB-198/199 ...-OoCB	44.13	EMPC C	1.0997	1.1002	+1.3	9.76E+04	1.08	0.59	61.6	2.00E+03	13.3
PCB-196 22'33'44'56'-OoCB	44.69	EMPC	1.1141	1.1142	+0.3	4.05E+04	0.67	0.61	24.9	2.00E+03	13
PCB-203 22'344'55'6-OoCB	44.86		1.1184	1.1185	+0.3	6.30E+04	0.95	0.62	37.8	2.00E+03	12.7
PCB-195 22'33'44'56-OoCB	45.99	EMPC	0.9518	0.9517	-0.3	2.21E+04	1.25	0.93	22.9	1.63E+03	18.6
PCB-194 22'33'44'55'-OoCB	47.94		0.9921	0.9921	0	7.07E+04	0.89	0.95	71.6	1.63E+03	18.2
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.63E+03	15.5
PCB-208 22'33'455'66'-NoCB	45.78		1.0005	1.0004	-0.3	1.26E+05	0.82	1.01	84.1	2.14E+03	14.5
PCB-207 22'33'44'566'-NoCB	46.57		1.0177	1.0177	0	9.48E+04	0.83	1.05	61	2.14E+03	14
PCB-206 22'33'44'55'6-NoCB	49.82		1.0004	1.0005	+0.3	1.06E+05	0.82	1.01	144	2.14E+03	32.5

SGS ID: A6492\_11883\_PCB\_003-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 53

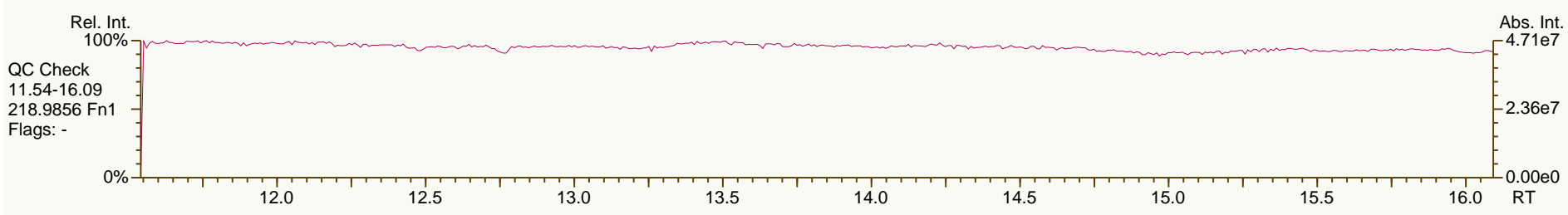
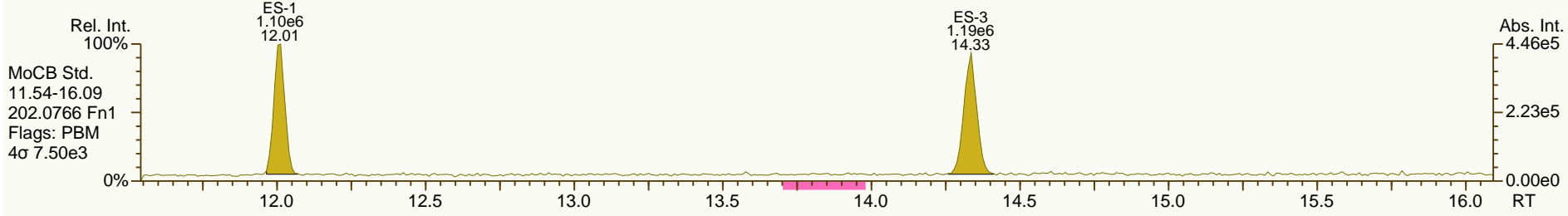
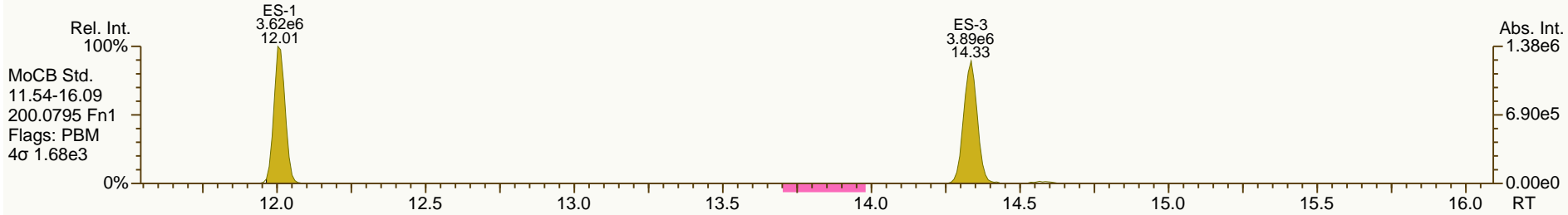
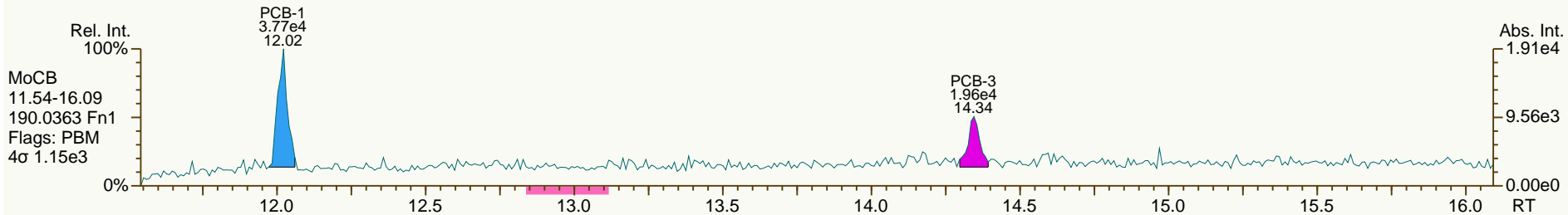
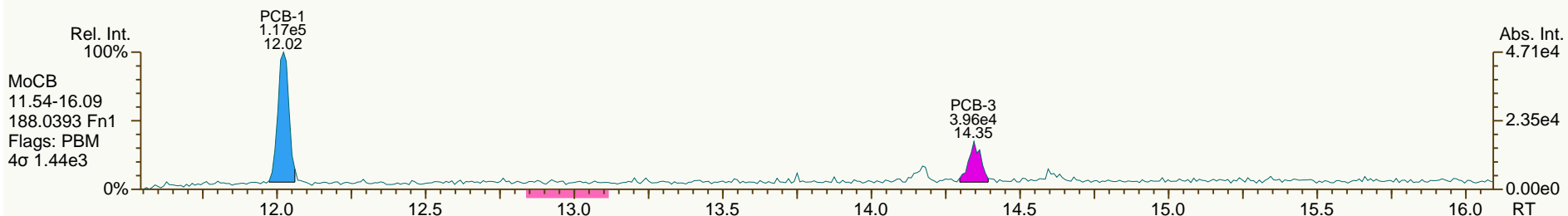
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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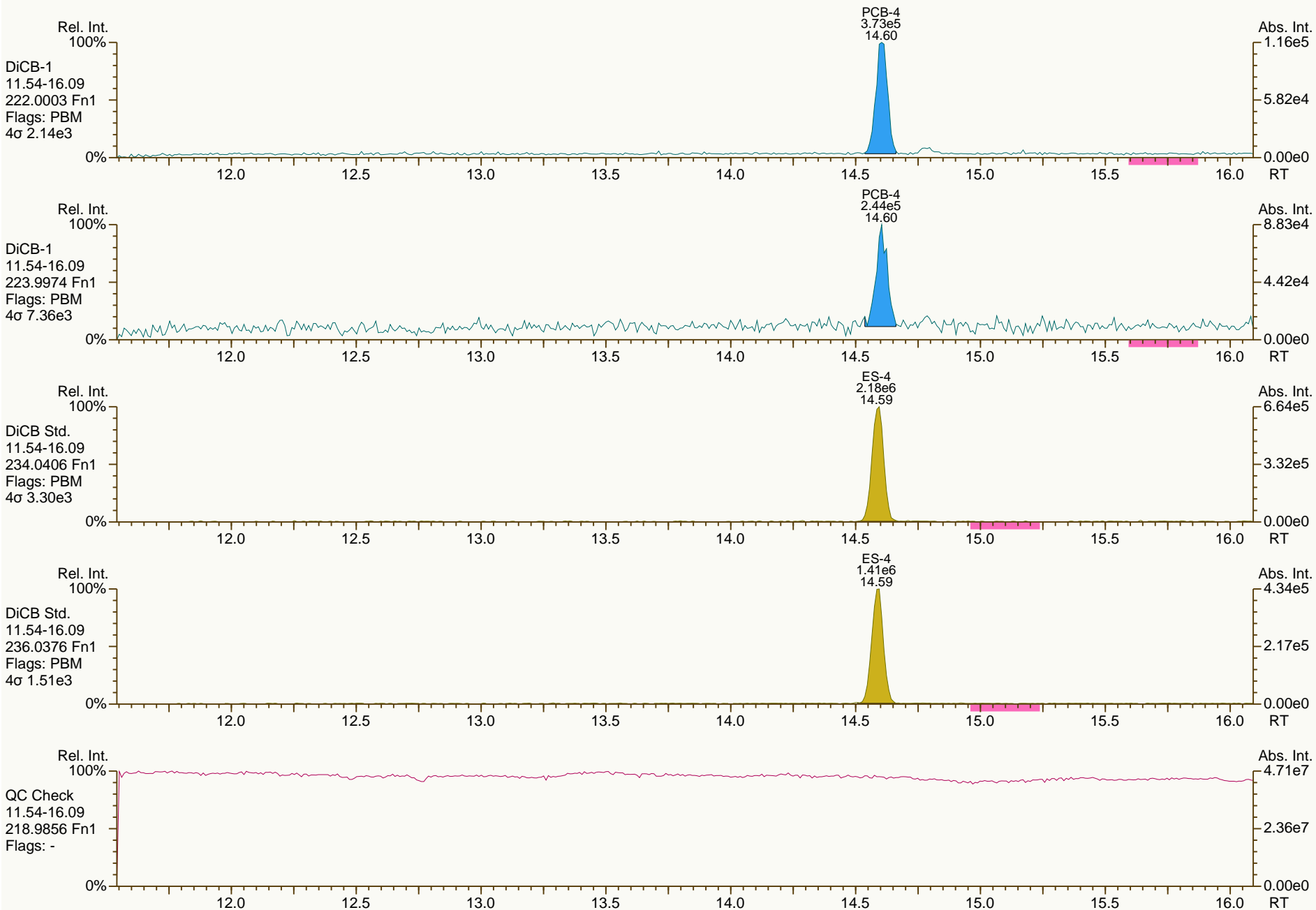
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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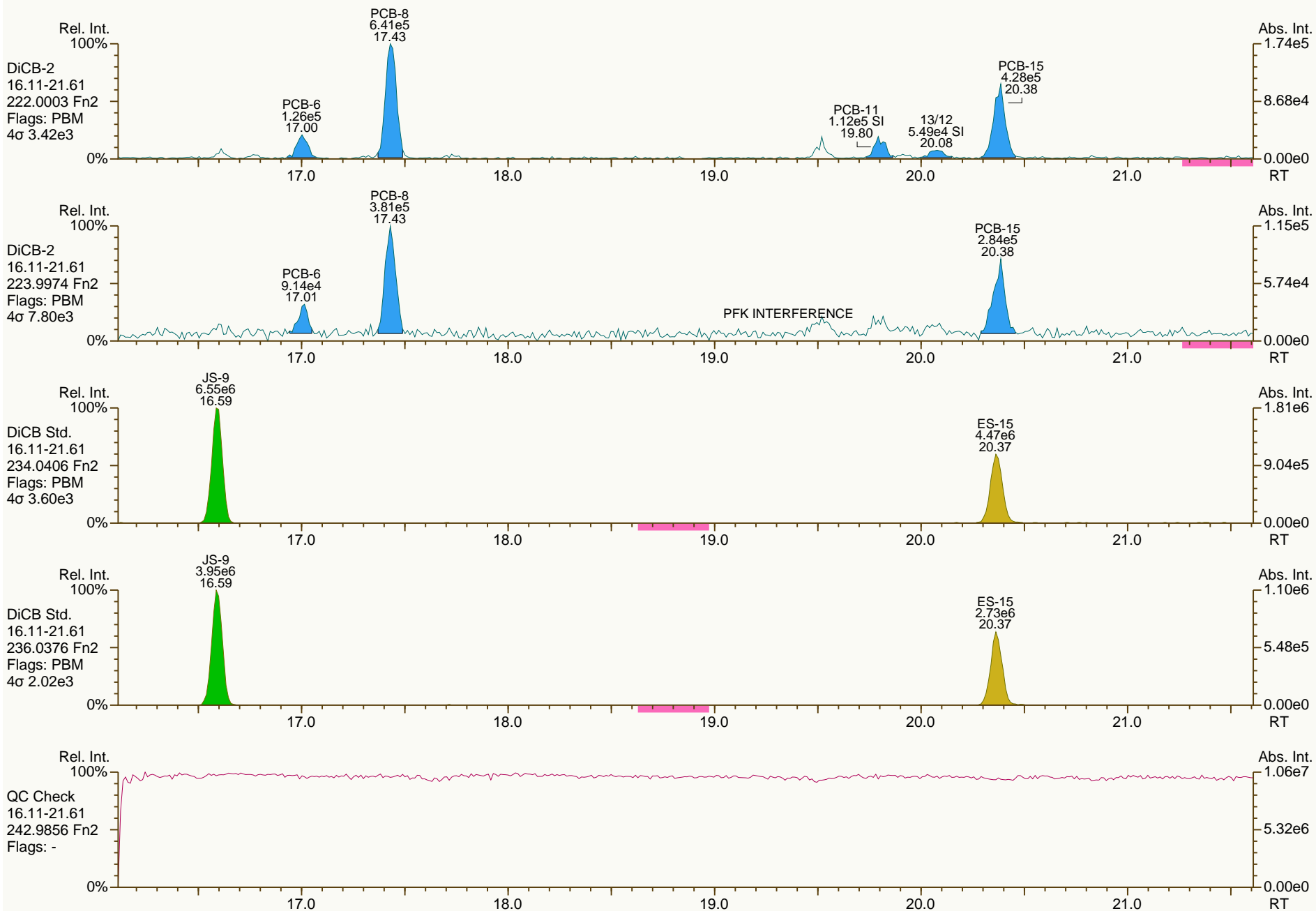
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 Instr: [ILM] AutoSpec-Ultima MM4

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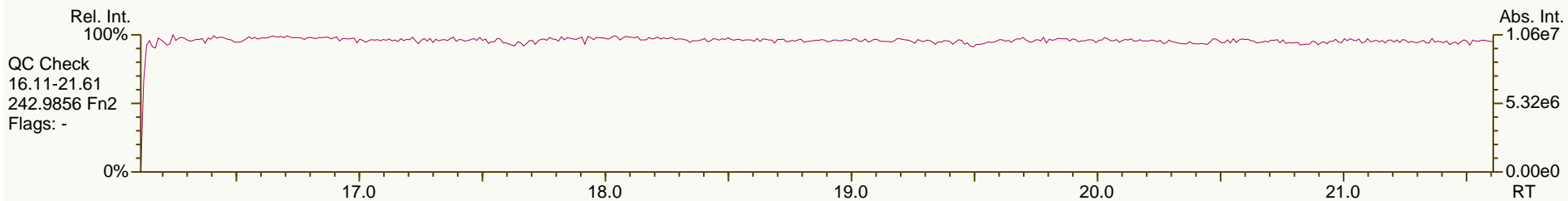
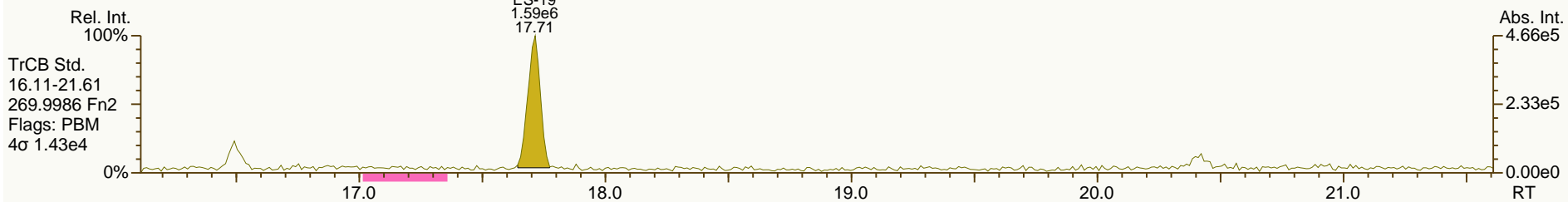
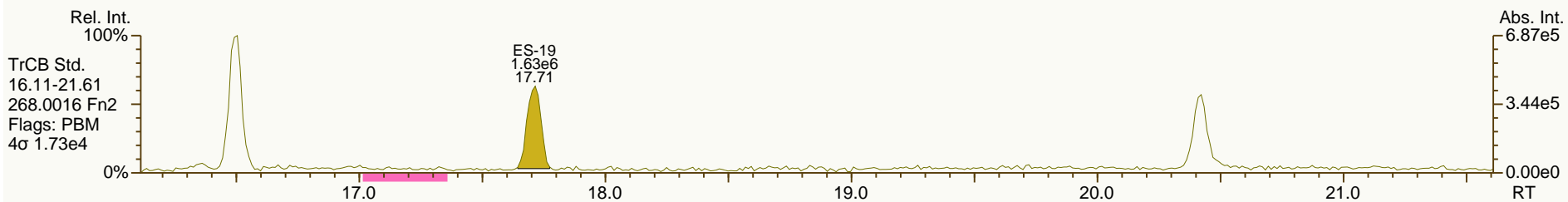
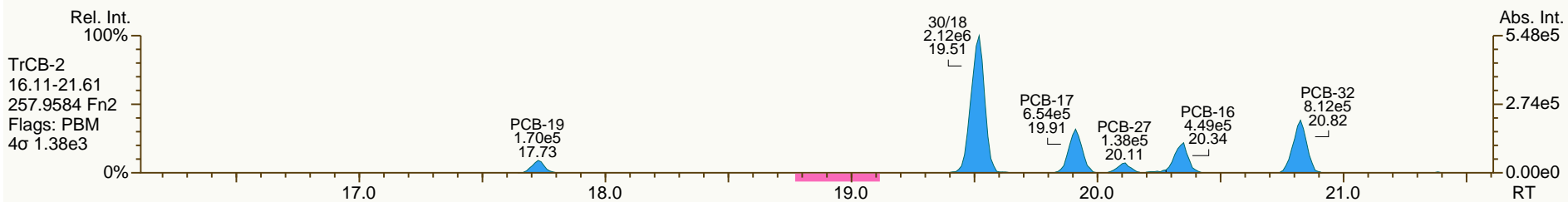
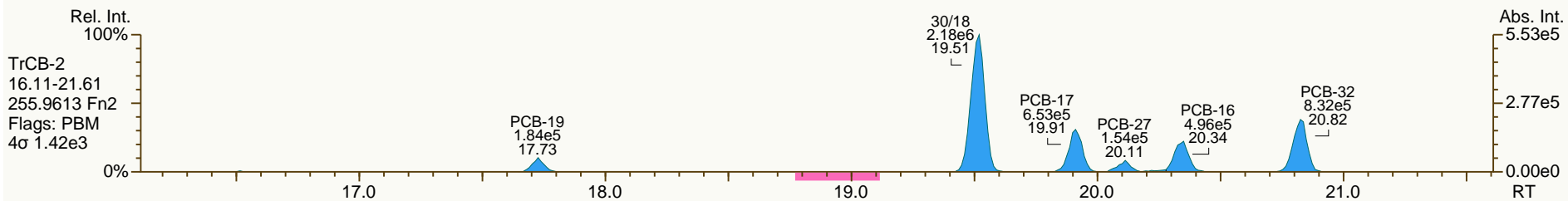
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 53

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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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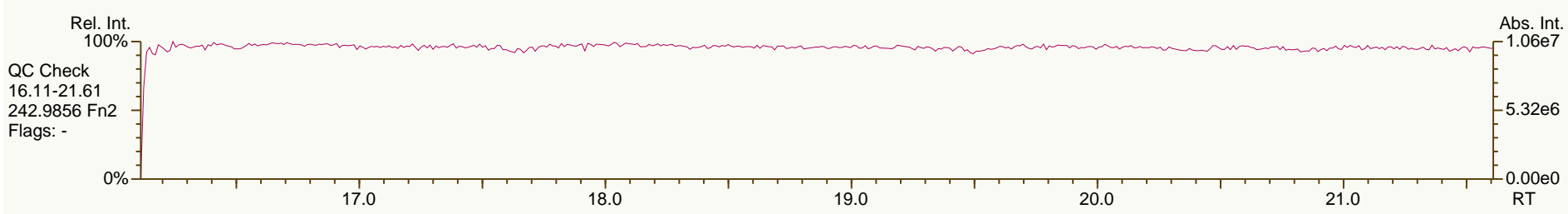
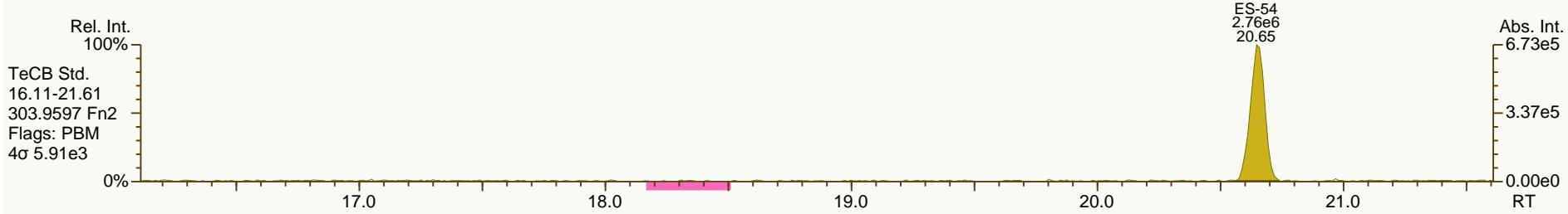
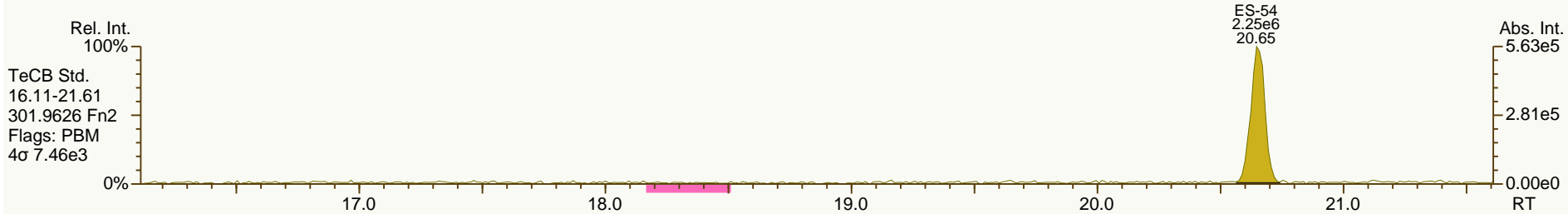
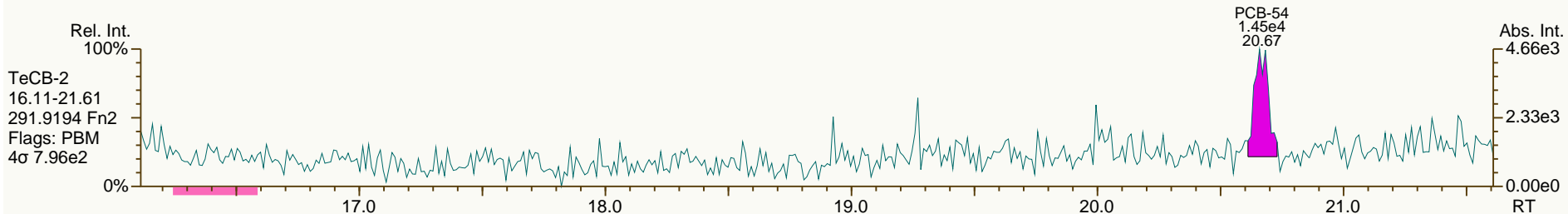
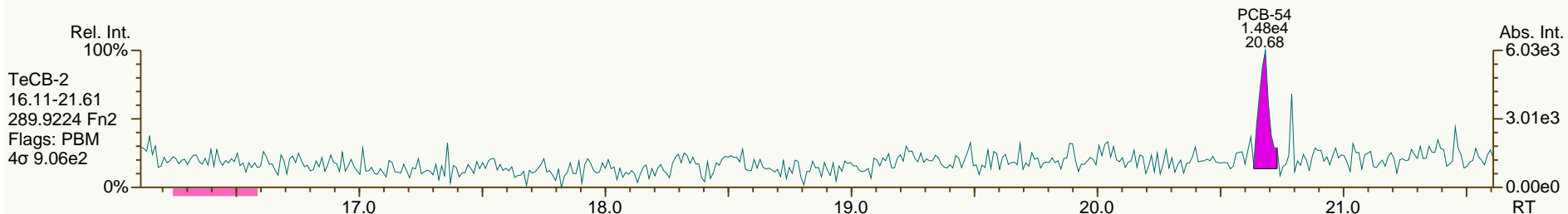
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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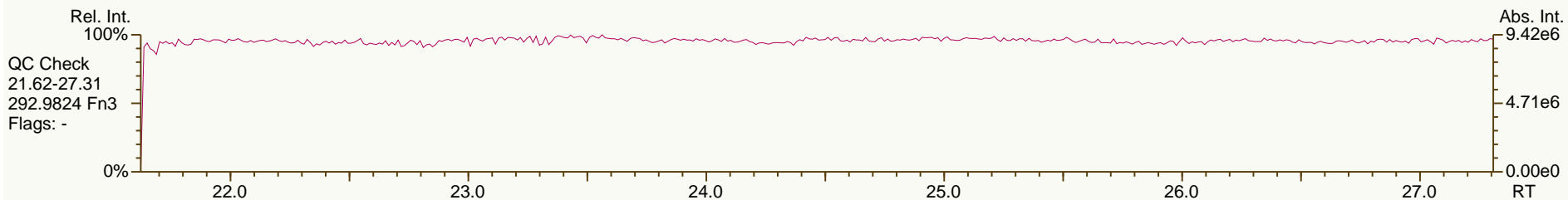
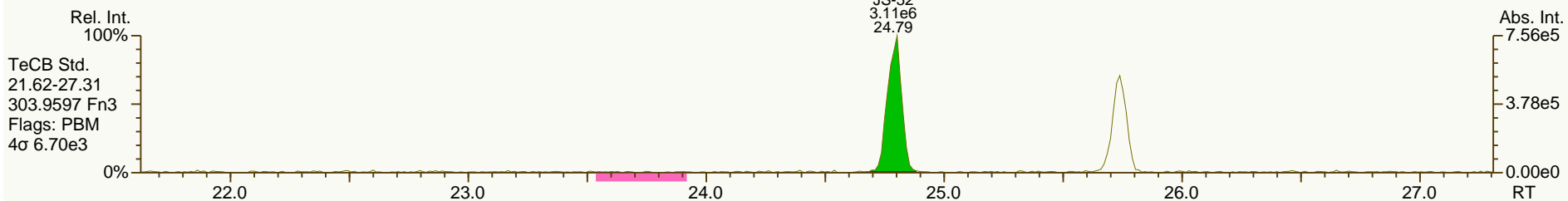
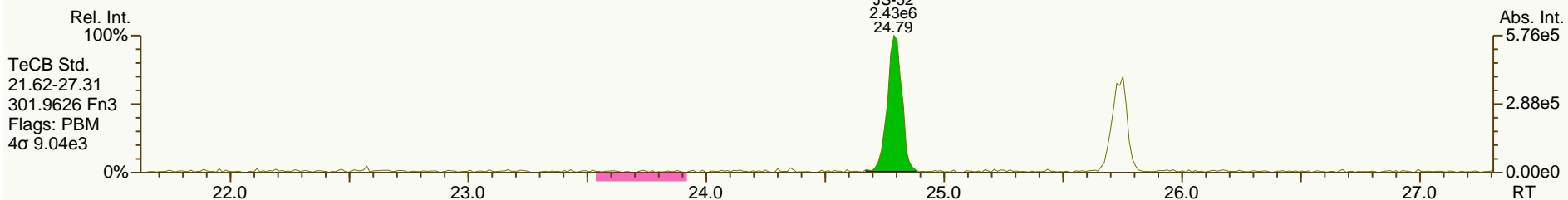
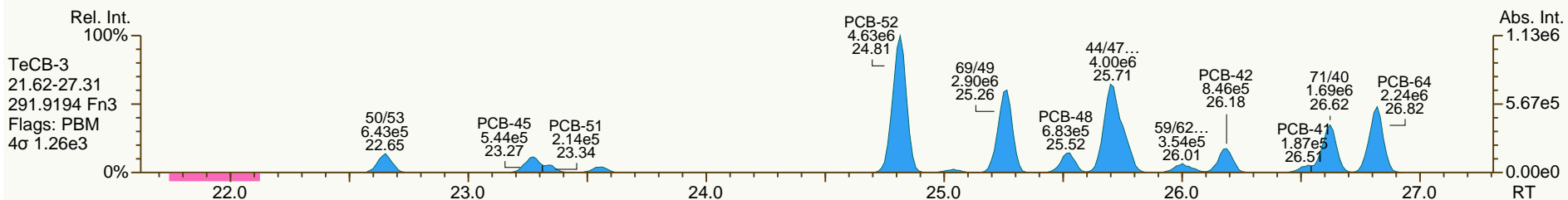
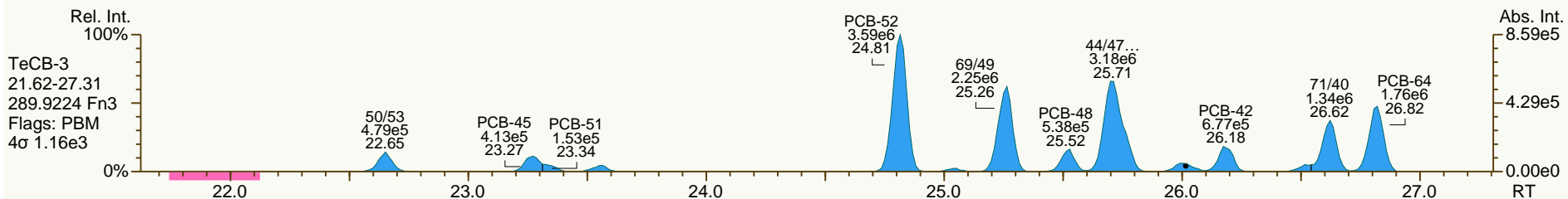




SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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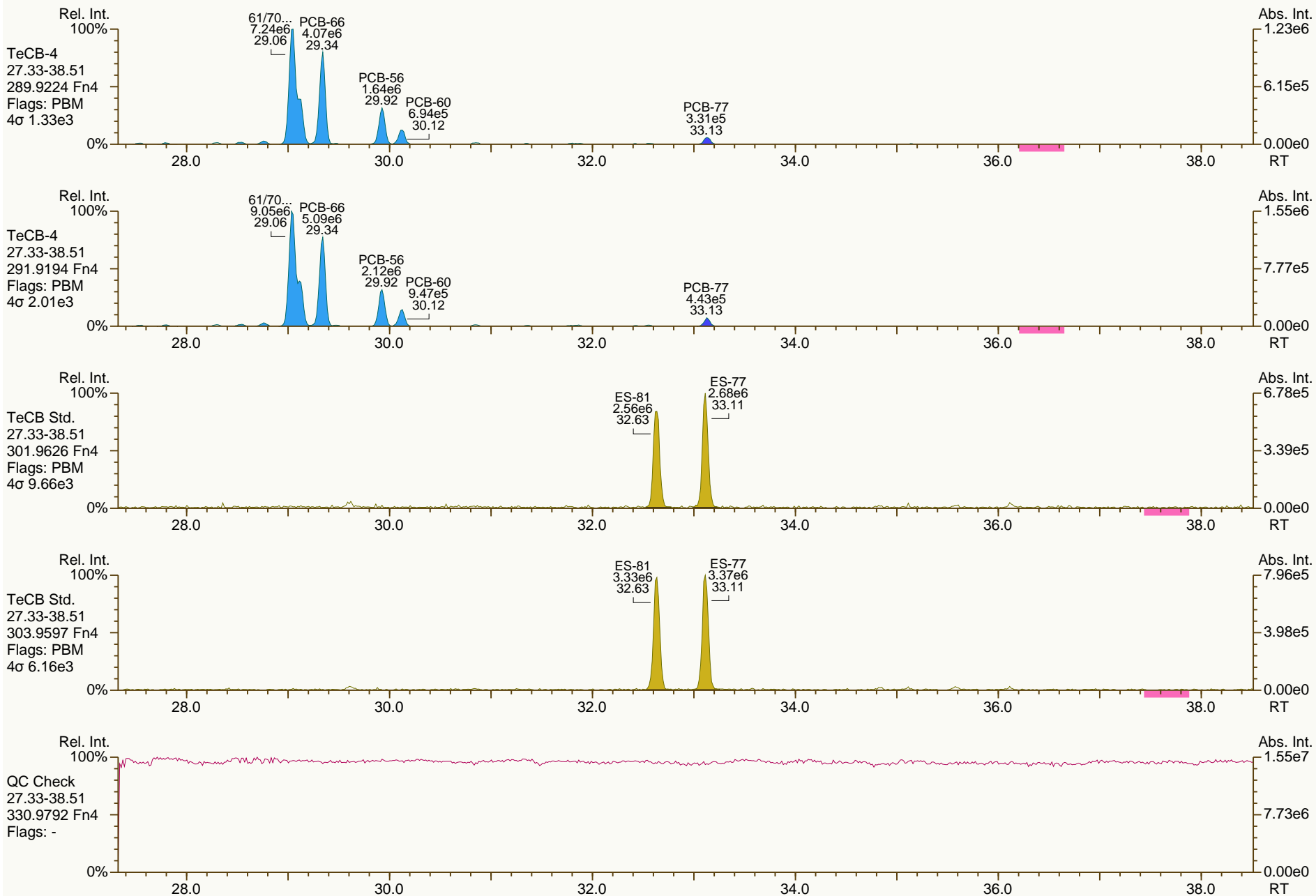
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SGS ID: A6492\_11883\_PCB\_003-RJ  
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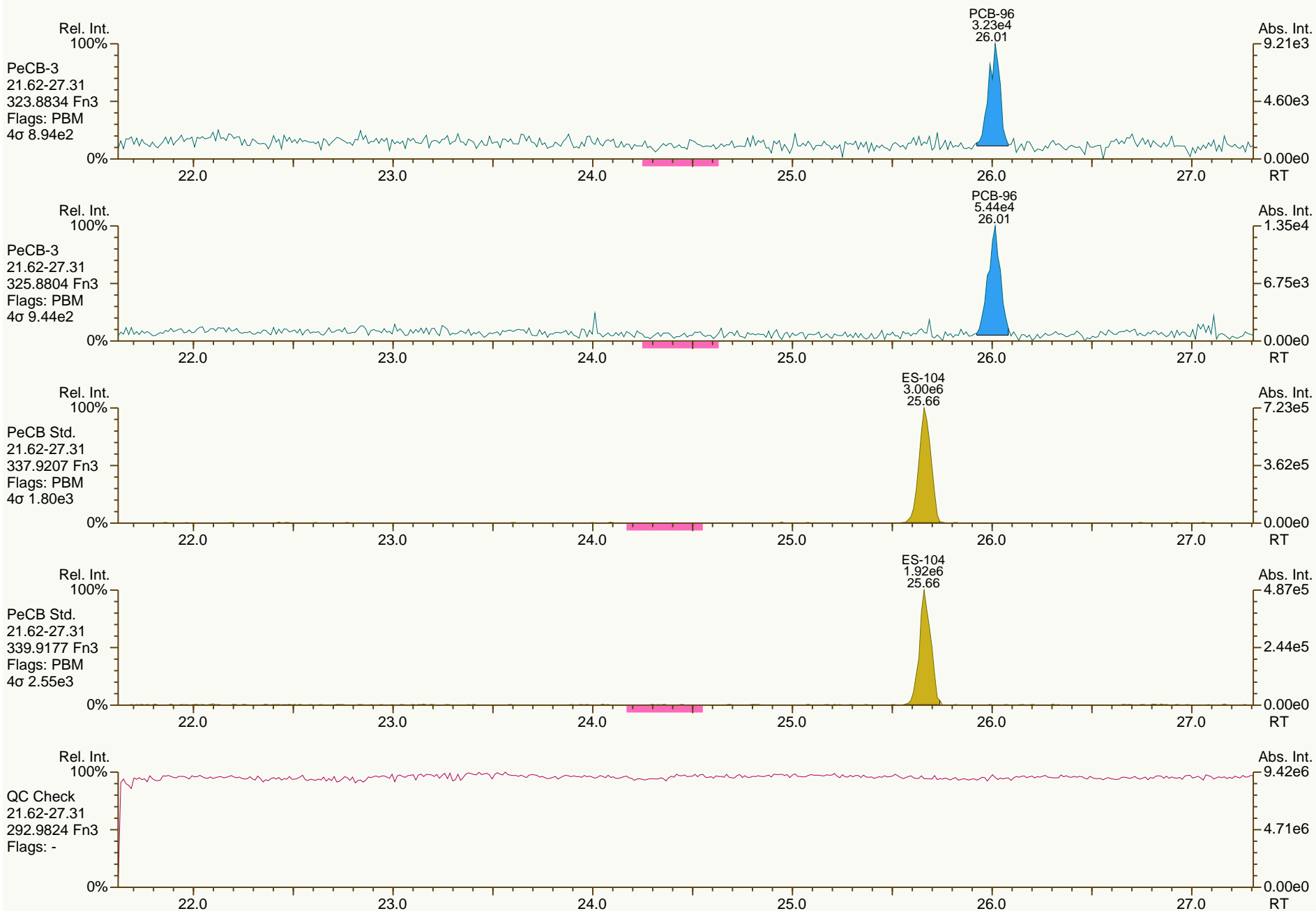
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SGS ID: A6492\_11883\_PCB\_003-RJ  
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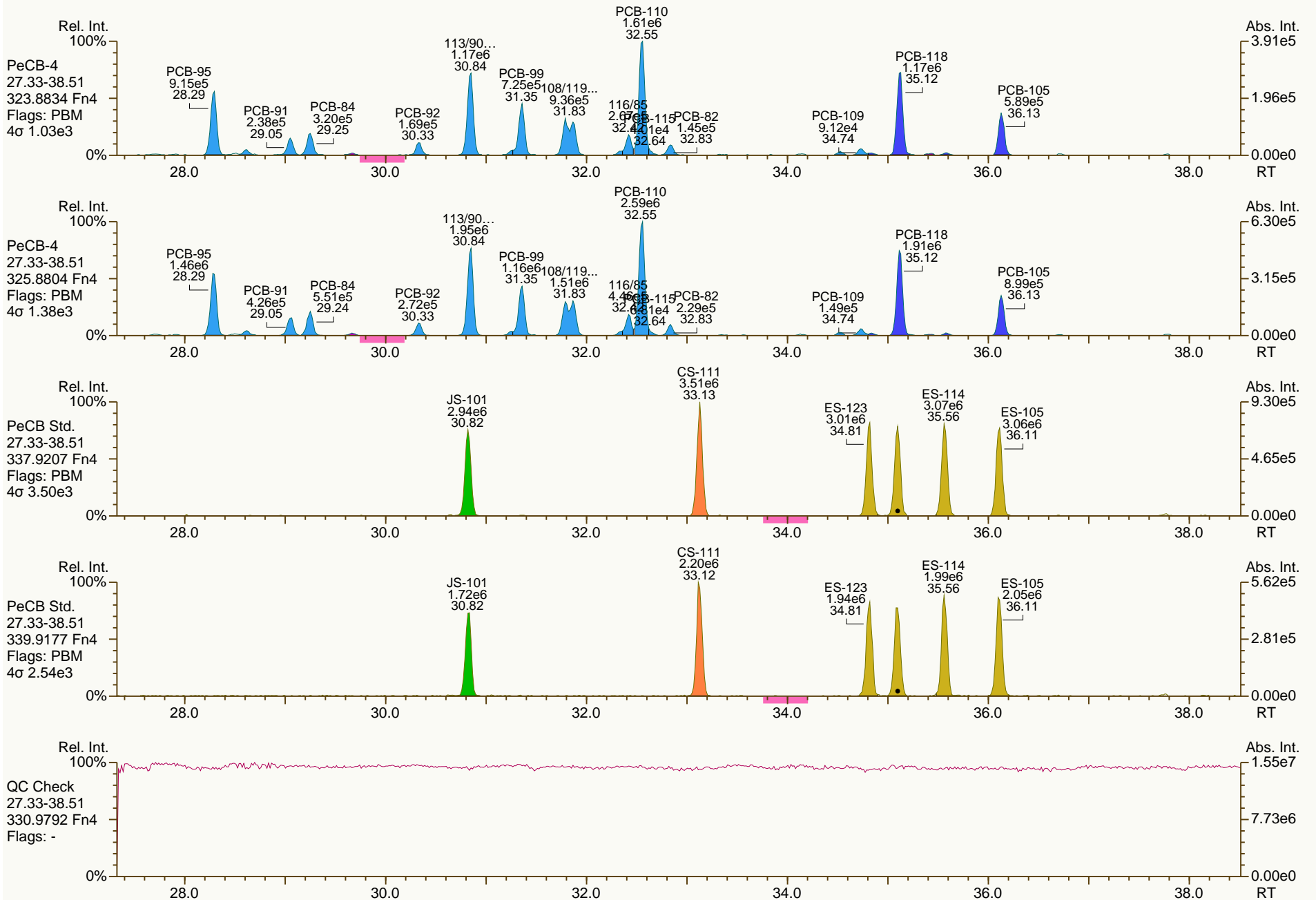
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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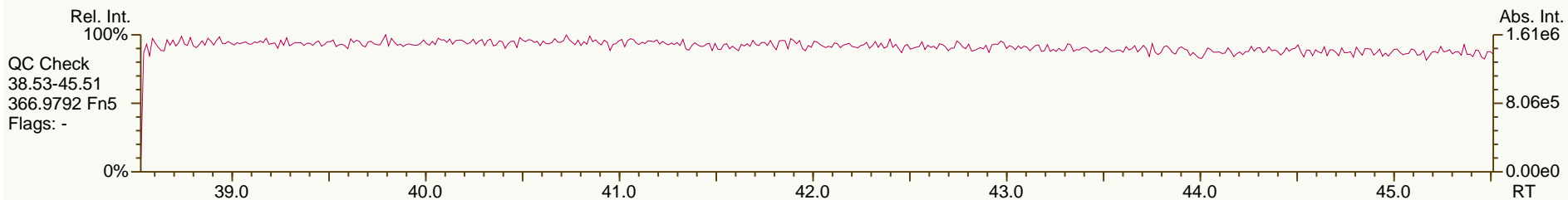
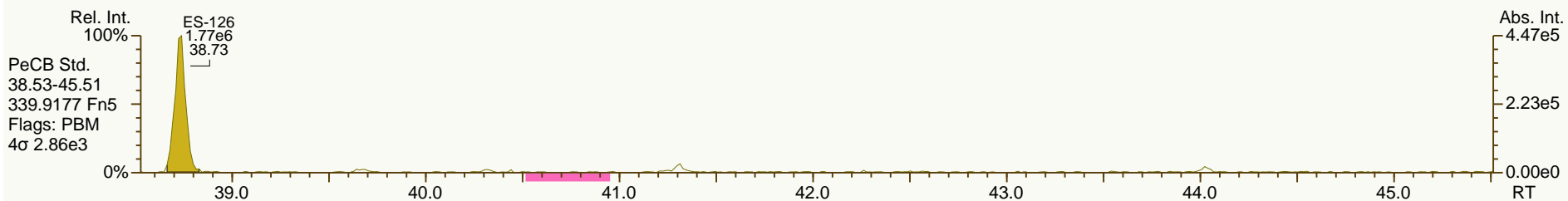
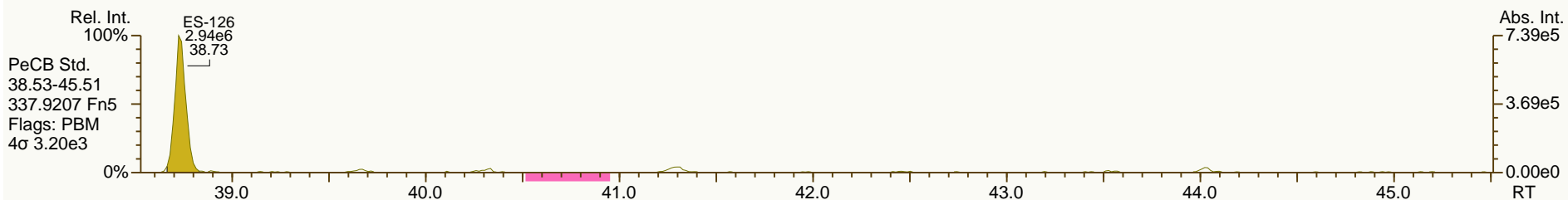
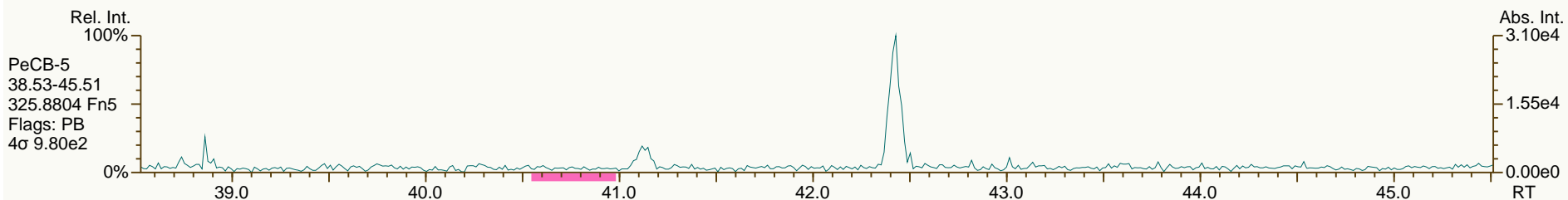
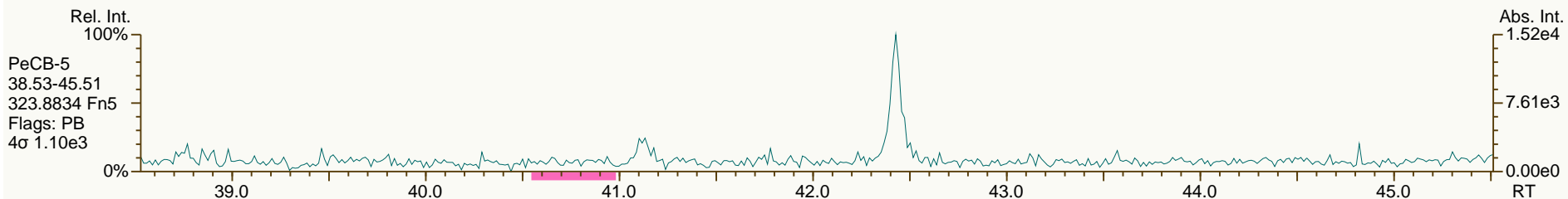
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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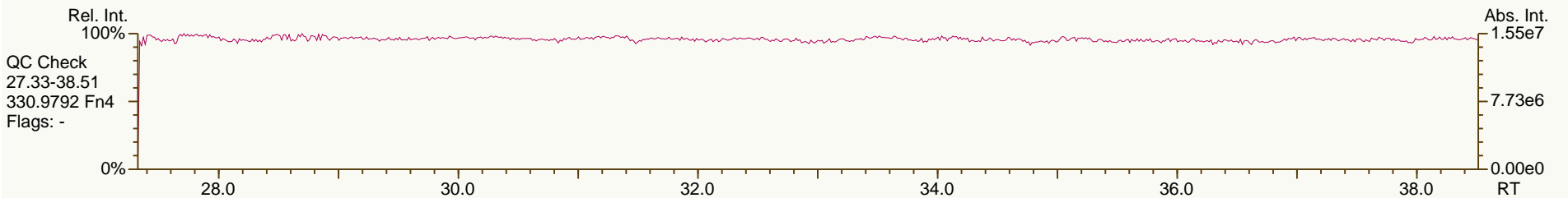
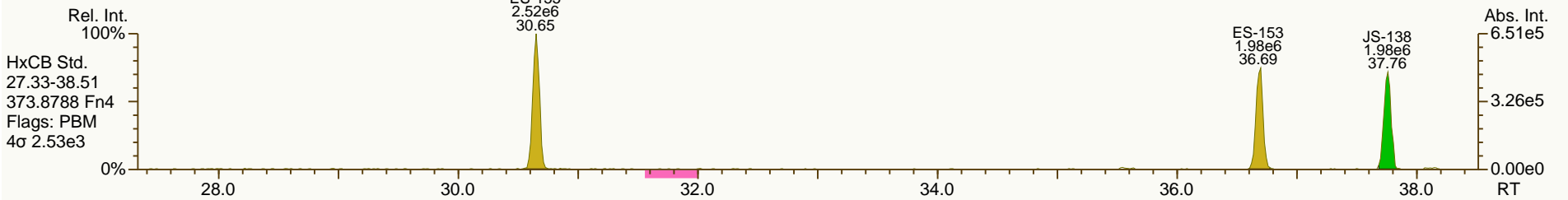
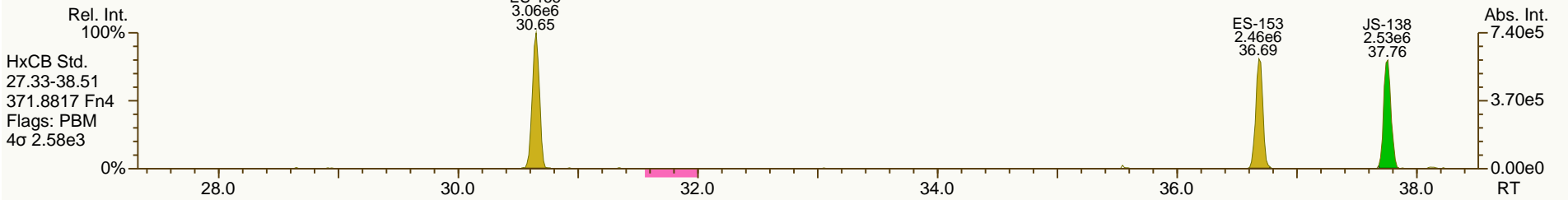
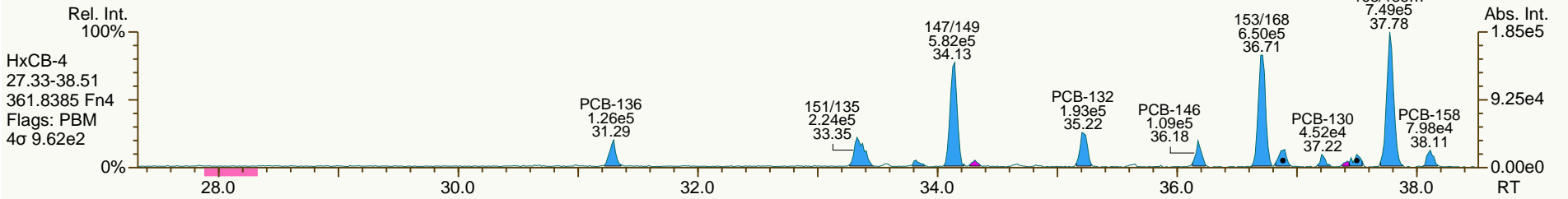
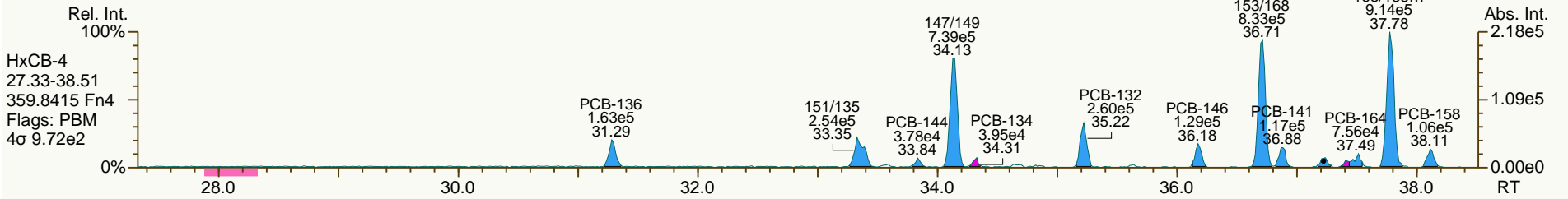
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 53

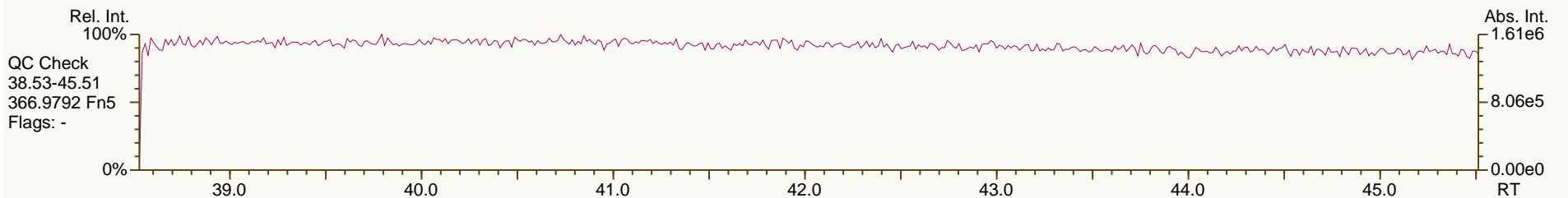
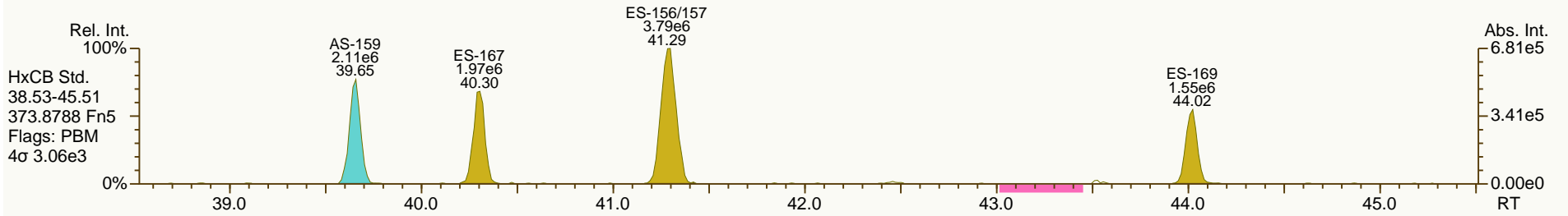
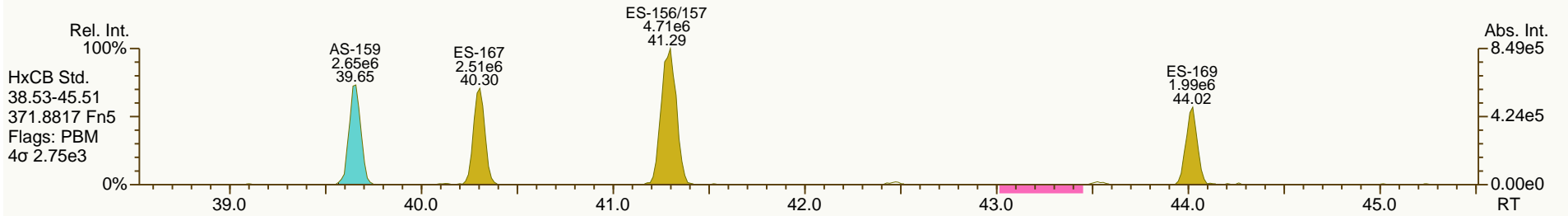
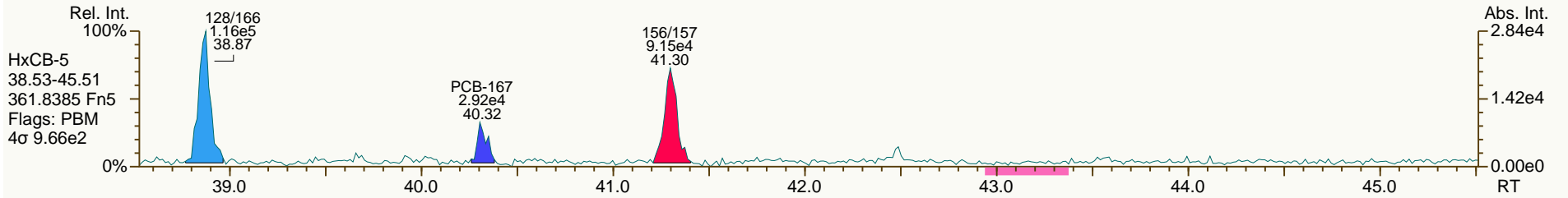
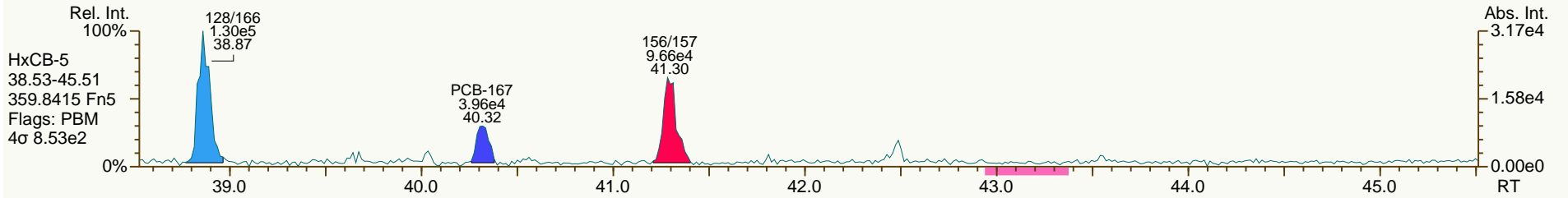
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 53

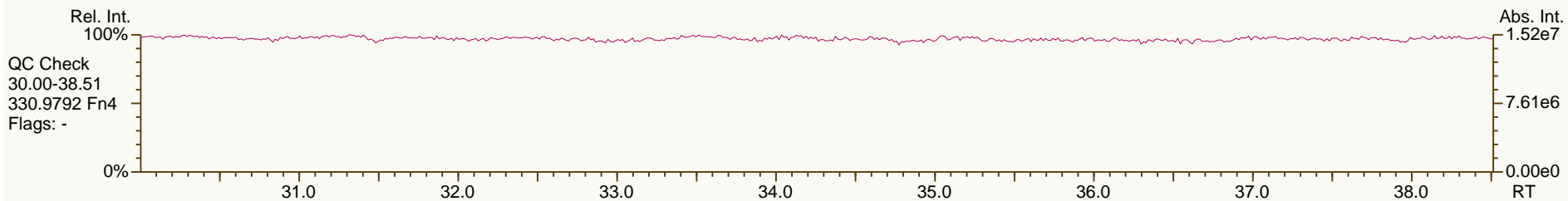
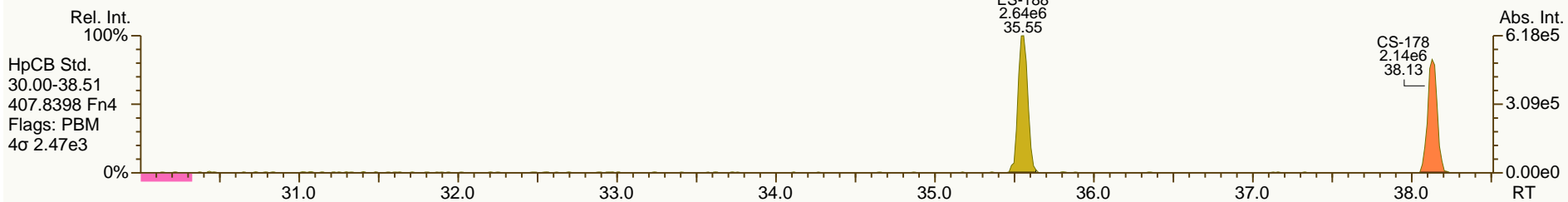
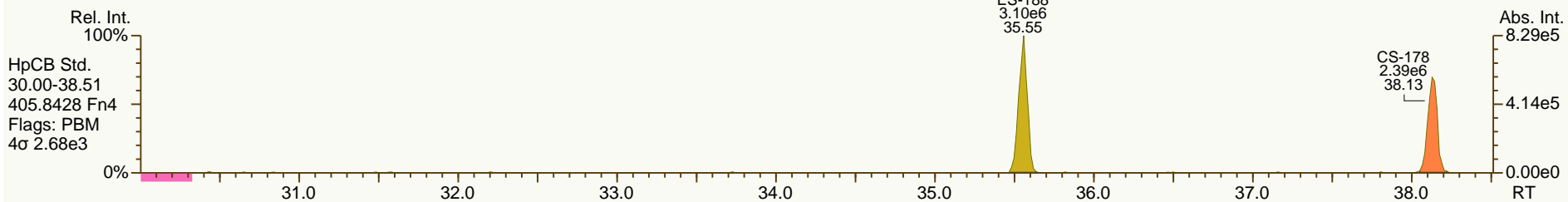
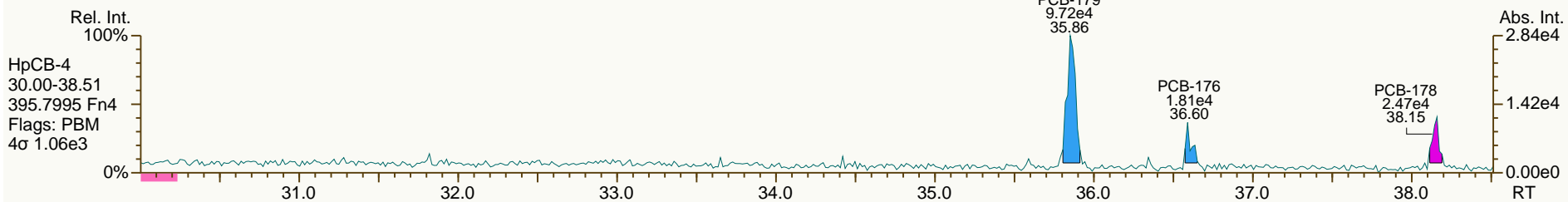
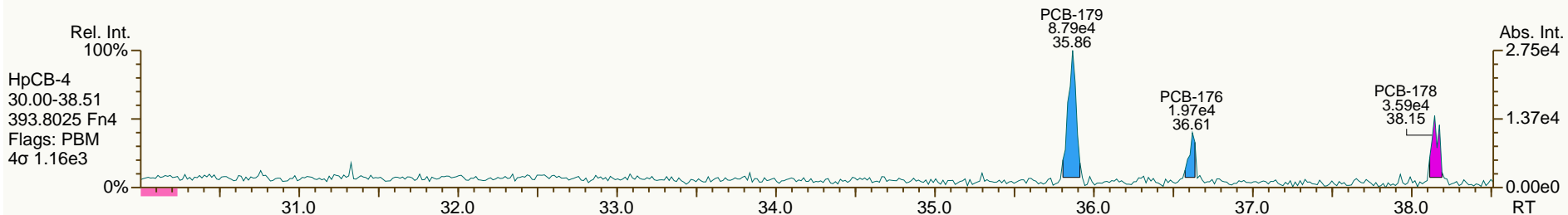
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 53

Acq: 24-Mar-2014 19:37:08  
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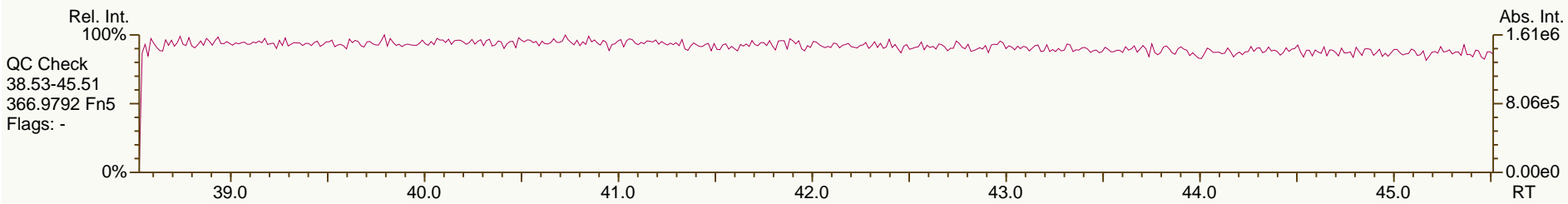
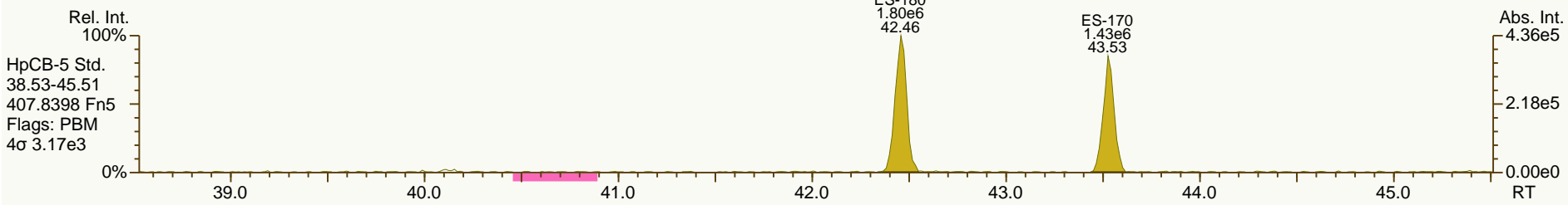
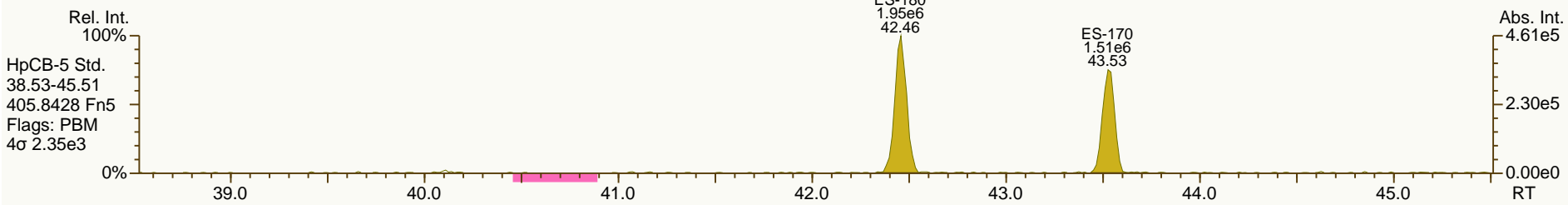
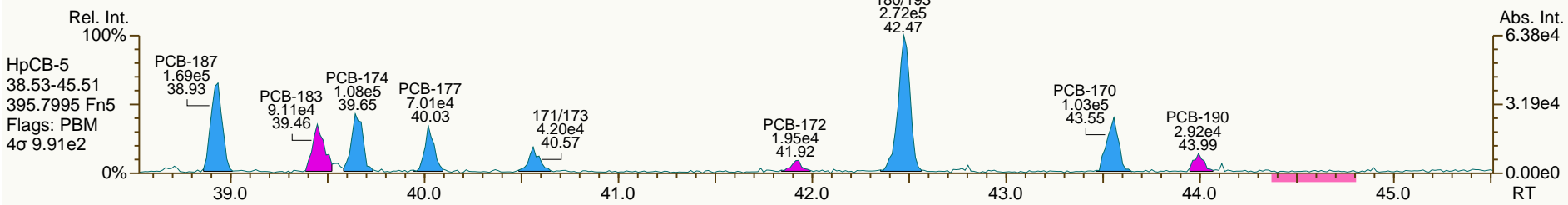
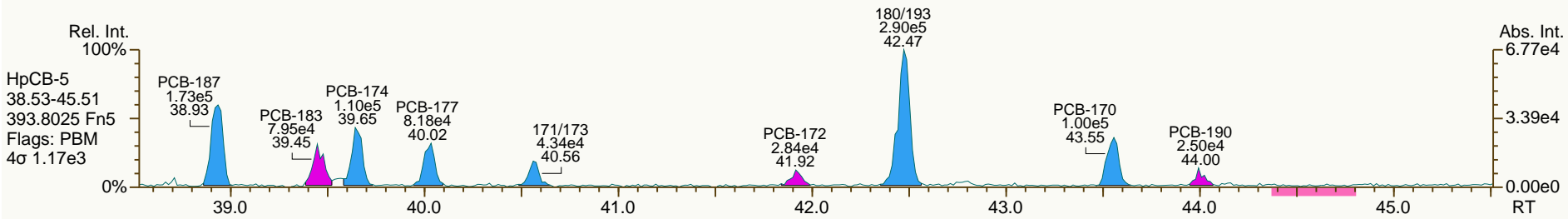




SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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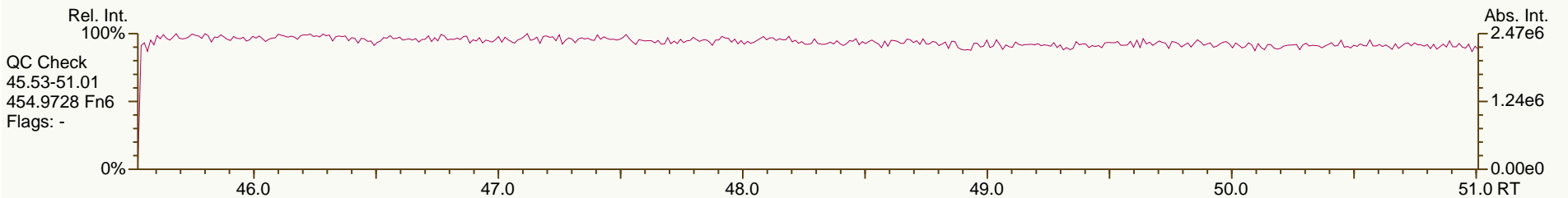
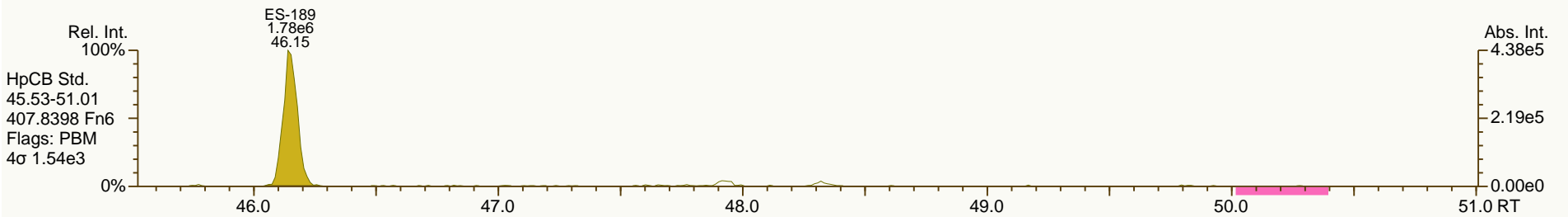
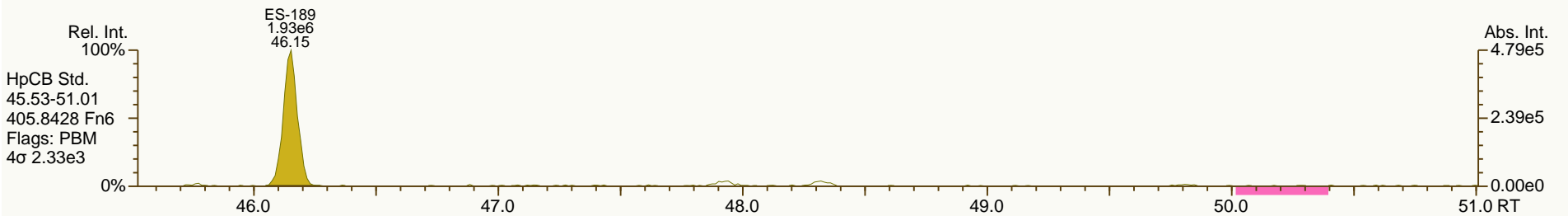
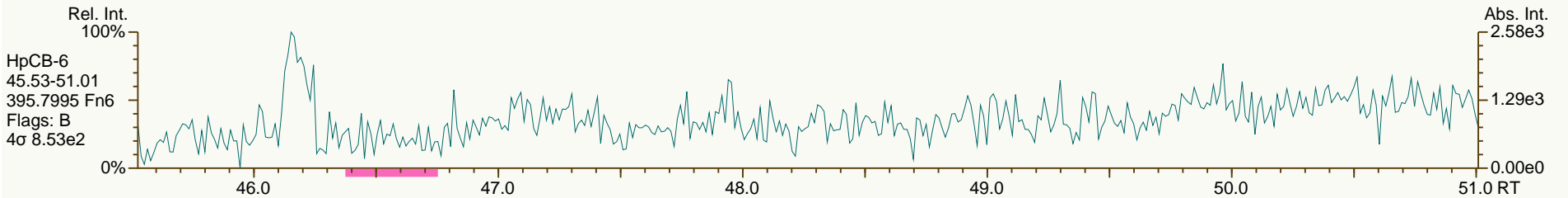
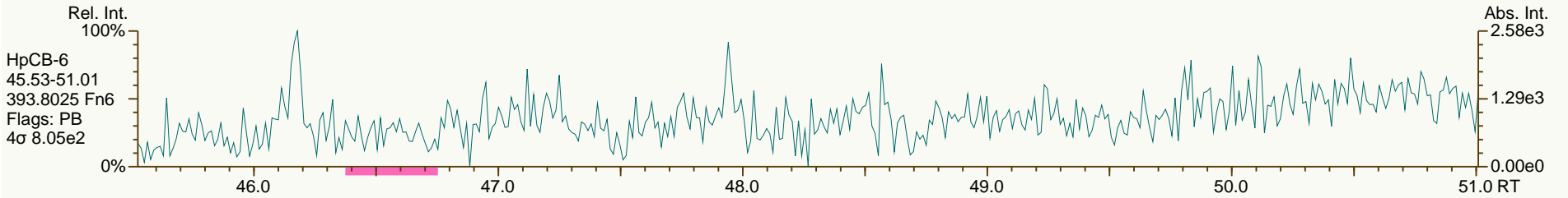
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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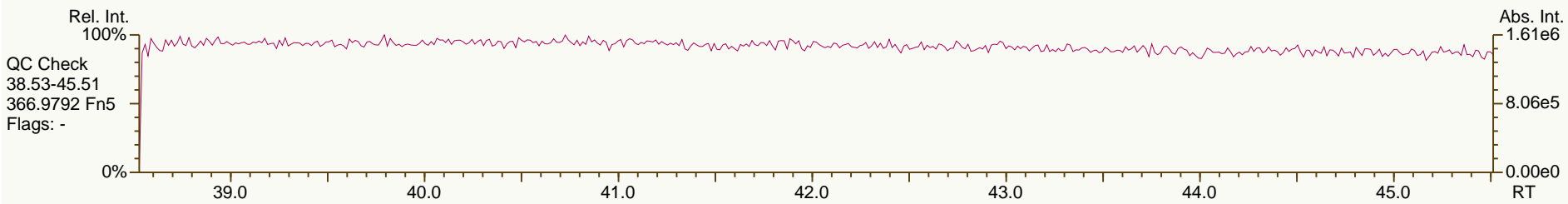
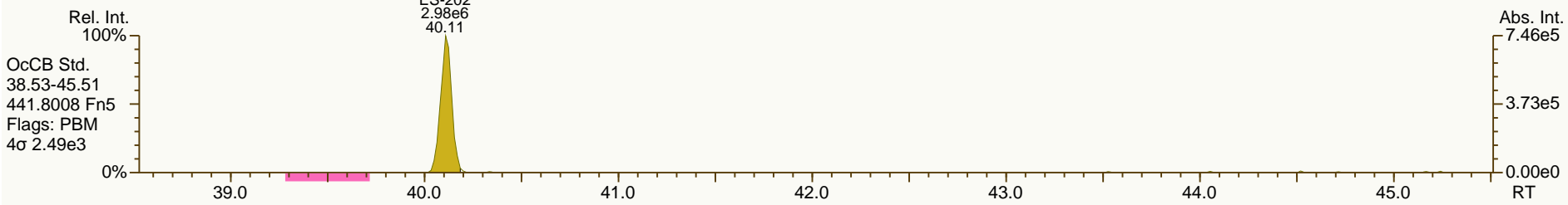
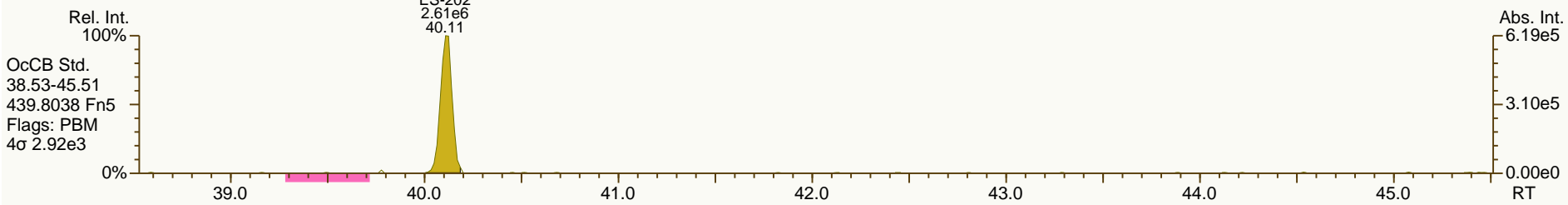
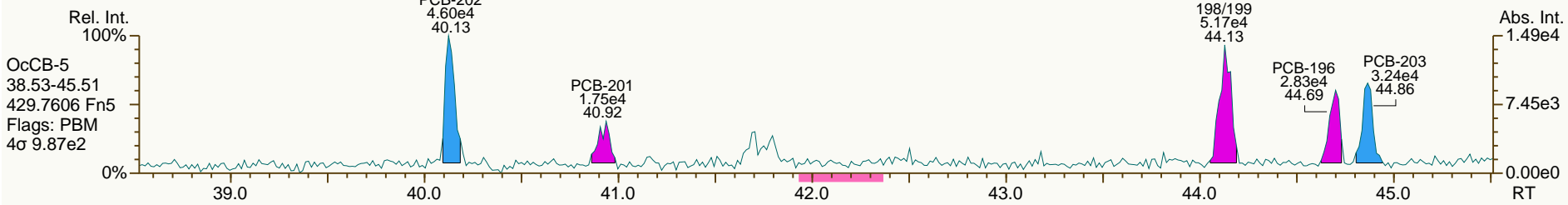
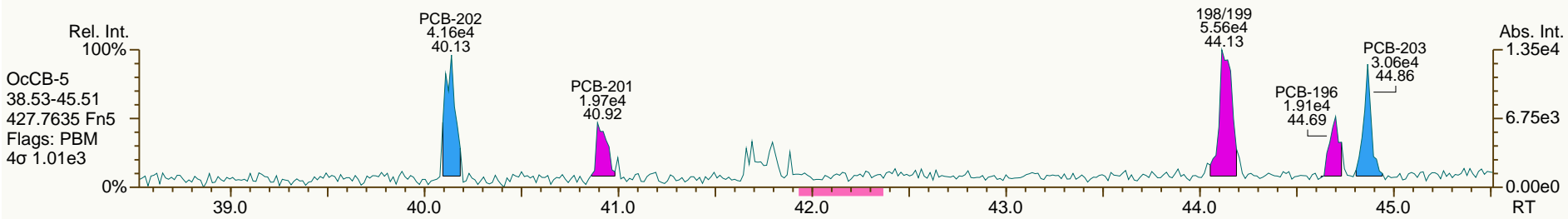
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
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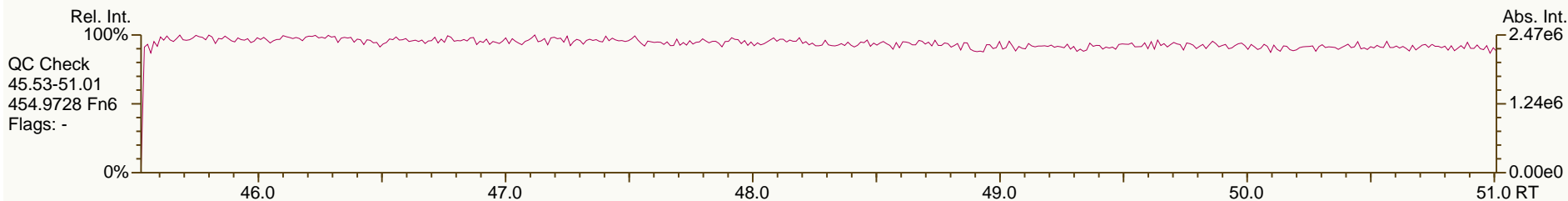
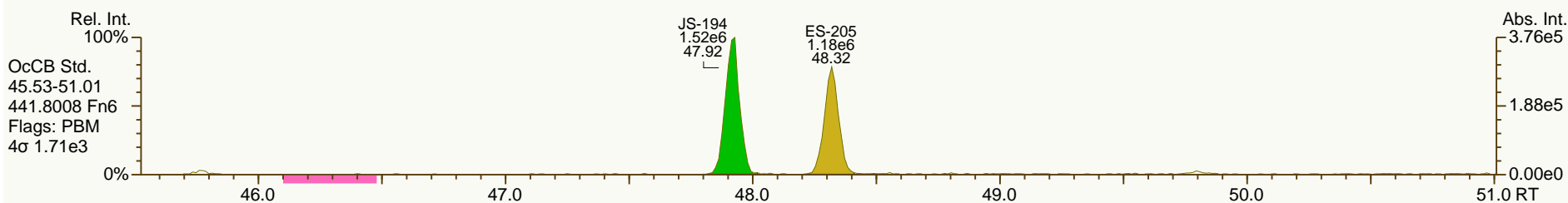
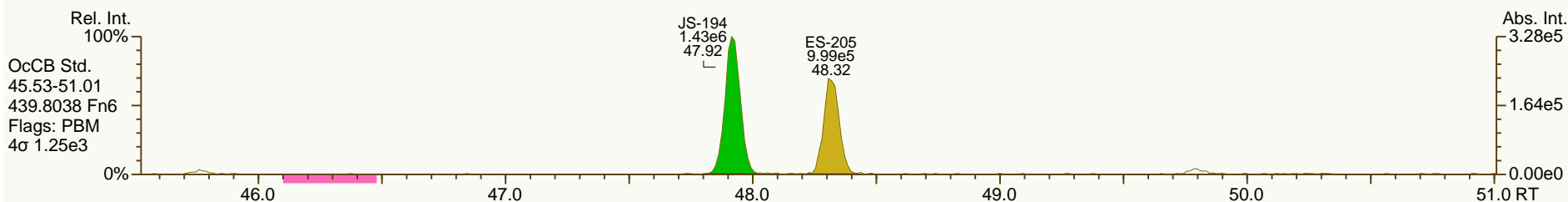
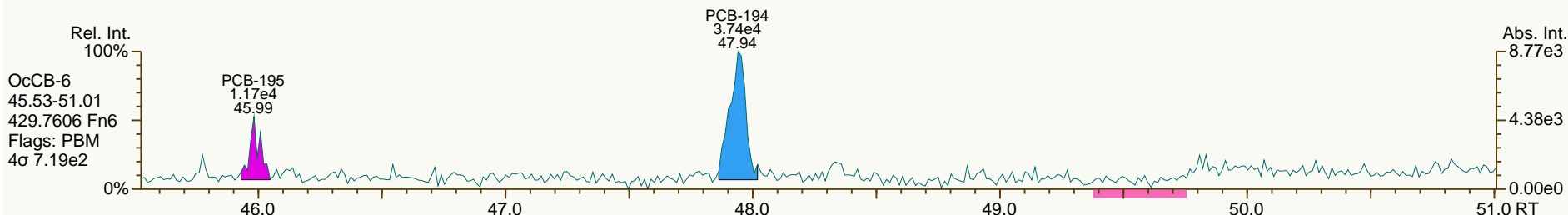
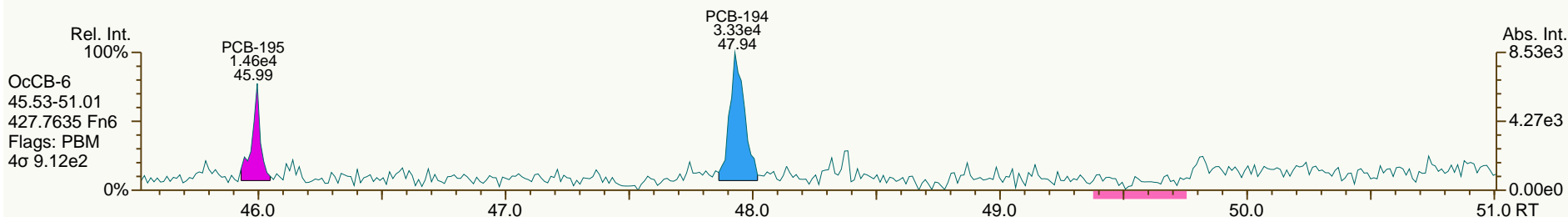
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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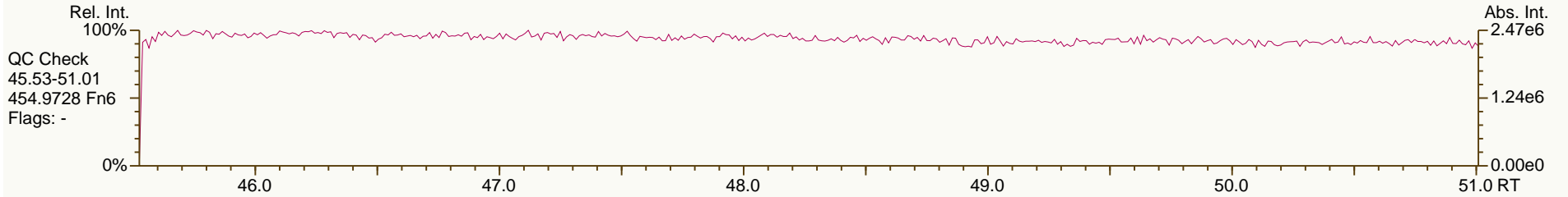
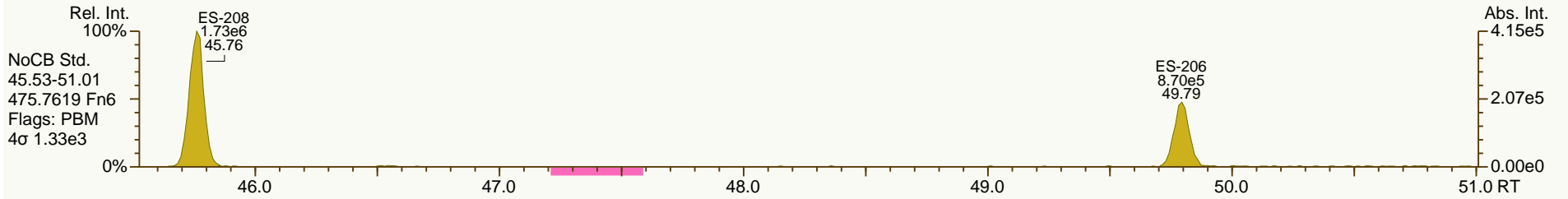
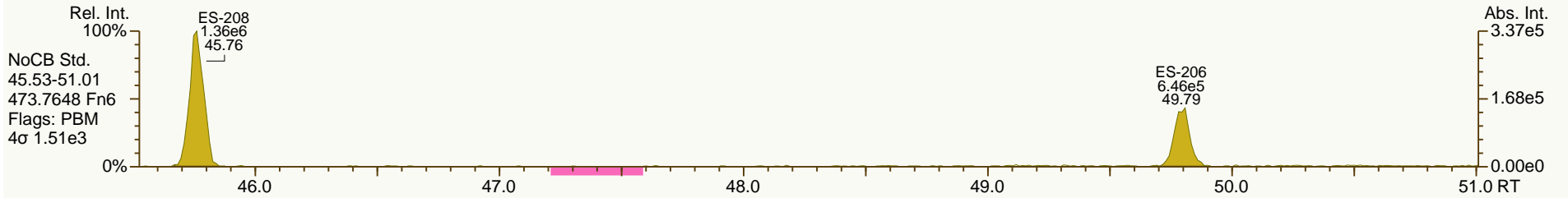
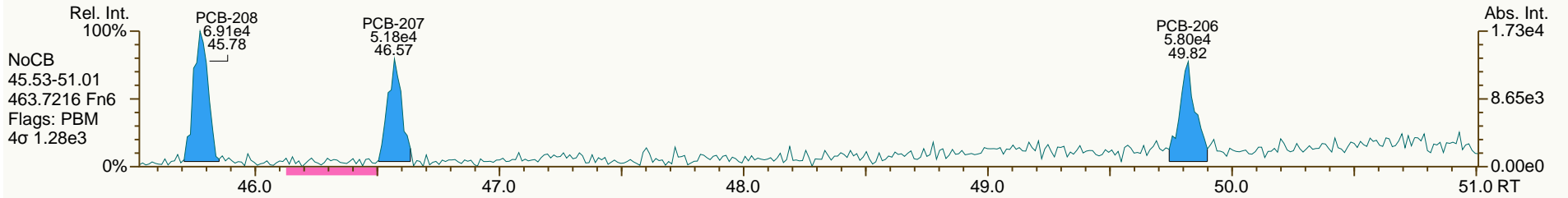
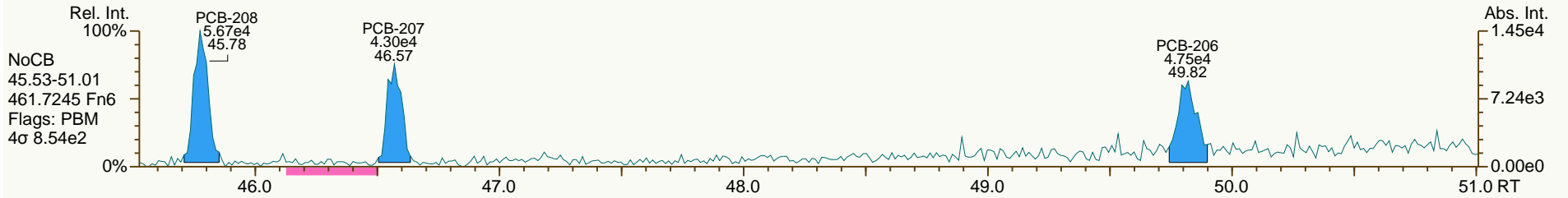
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

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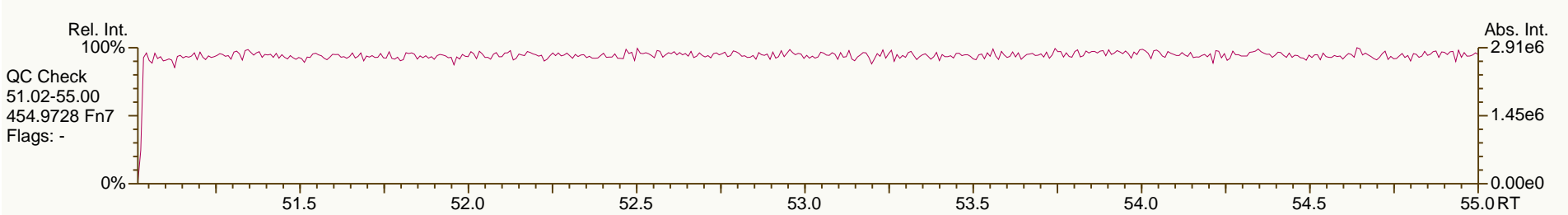
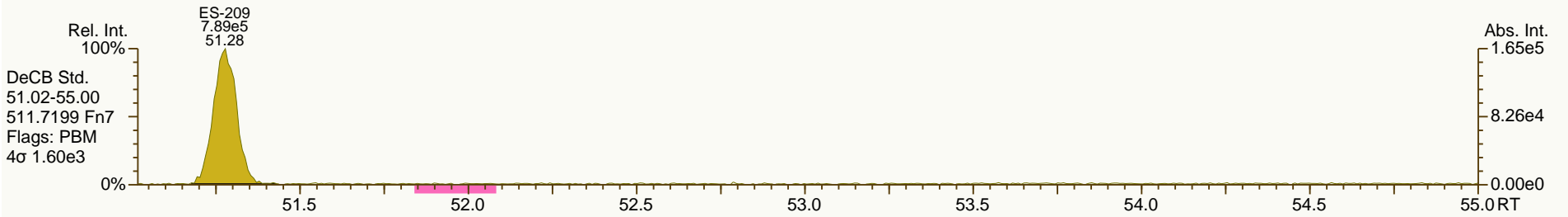
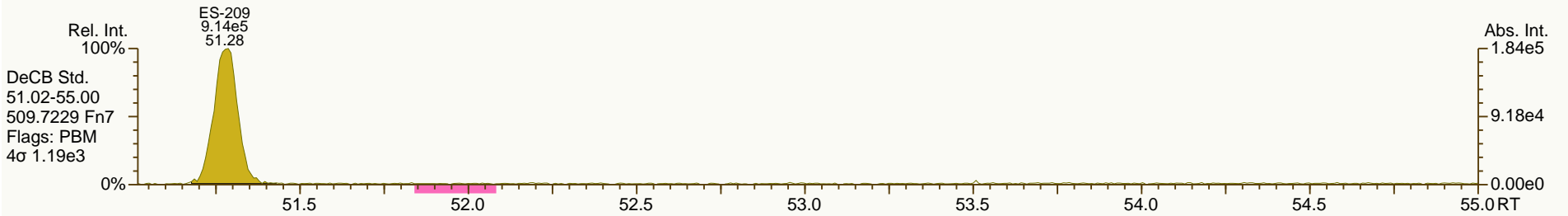
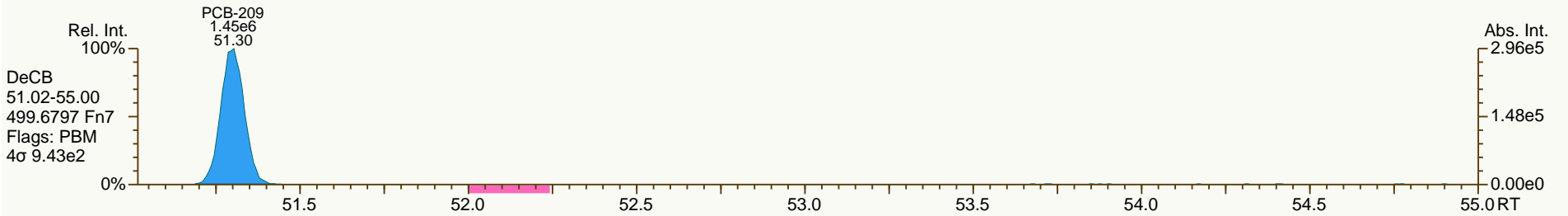
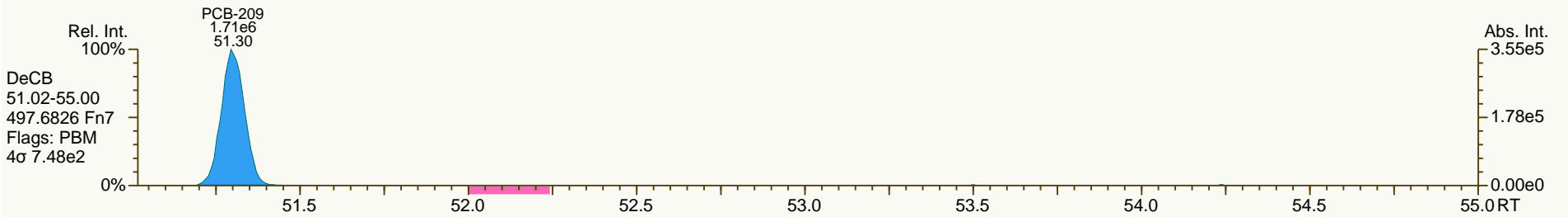
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SGS ID: A6492\_11883\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 53

Acq: 24-Mar-2014 19:37:08  
 User: CTW Datafile: 140324S10



Lab ID: A6492\_11883\_PCB\_004-RJ

ACQ: 24-Mar-2014 20:36:12 CTW

Wt/Vol: 0.96 L

ICAL: MM4\_PCB\_10292013\_05FEB2014 CS3\_140324\_PCB\_SA

Client ID: PB006.2-1 SWMID-140311-N (Dissolved)

UTP: 02-Apr-2014 11:32 JLJ

J-level: 10.4 pg/L Split: 1

Checkcode: 444-564-YLD

Datafile: 140324S11

RPT: 02-Apr-2014 13:08 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	33.13		1.0006	1.0006	0	3.42E+05	0.76	1.36	35.1	2.93E+03	3.33
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.32	ND	2.93E+03	3.33
PCB-105 233'44'-PeCB	36.13		1.0007	1.0006	-0.2	4.98E+05	0.57	1.03	78.1	2.06E+03	3.46
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.13	ND	2.06E+03	3
PCB-118 23'44'5'-PeCB	35.11		1.0007	1.0006	-0.2	1.07E+06	0.56	1.13	157	2.06E+03	3.2
PCB-123 23'44'5'-PeCB	34.82	J	1.0007	1.0004	-0.6	2.80E+04	0.67	1.11	4.17	2.06E+03	3.13
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.33	ND	1.84E+03	2.62
PCB-156/157 ...-HxCB	41.30	J EMPC C	1.0005	1.0002	-0.7	4.61E+04	1.04	1.09	7.6	1.64E+03	4.02
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	1.64E+03	2.54
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.10	ND	1.64E+03	3.16
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.21	ND	2.15E+03	3.28
PCB-209 DeCB	51.30		1.0004	1.0004	0	7.71E+05	1.22	1.07	196	1.69E+03	5.31
ES PCB-1	12.00		0.7239	0.7236	-0.2	1.38E+07	3.19	1.05	55.6 %	15%	150%
ES PCB-3	14.32		0.8639	0.8638	-0.1	1.42E+07	3.30	0.97	62.2 %	15%	150%
ES PCB-4	14.58		0.8794	0.8792	-0.2	1.01E+07	1.56	0.66	65 %	25%	150%
ES PCB-15	20.36		1.2270	1.2276	+0.7	1.84E+07	1.65	1.09	72 %	25%	150%
ES PCB-19	17.70		1.0673	1.0674	+0.1	9.05E+06	1.07	0.55	70 %	25%	150%
ES PCB-37	26.74		1.0786	1.0788	+0.3	1.54E+07	1.06	1.44	82.9 %	25%	150%
ES PCB-54	20.64		0.8332	0.8329	-0.4	1.33E+07	0.77	1.42	72.4 %	25%	150%
ES PCB-77	33.11		1.3353	1.3358	+1.0	1.49E+07	0.81	1.26	91.7 %	25%	150%
ES PCB-81	32.63		1.3159	1.3164	+1.0	1.45E+07	0.78	1.27	88.8 %	25%	150%
ES PCB-104	25.66		0.8329	0.8326	-0.5	1.19E+07	1.51	1.56	69.3 %	25%	150%
ES PCB-105	36.11		1.1713	1.1717	+0.9	1.29E+07	1.60	1.23	94.6 %	25%	150%
ES PCB-114	35.56		1.1536	1.1540	+0.9	1.30E+07	1.60	1.20	98 %	25%	150%
ES PCB-118	35.09		1.1385	1.1388	+0.6	1.26E+07	1.60	1.13	101 %	25%	150%
ES PCB-123	34.81		1.1294	1.1296	+0.4	1.26E+07	1.50	1.16	98 %	25%	150%
ES PCB-126	38.73		1.2564	1.2569	+1.2	1.21E+07	1.64	1.22	90.2 %	25%	150%
ES PCB-153	36.68		0.9717	0.9717	0	1.13E+07	1.25	1.10	96.1 %	25%	150%
ES PCB-155	30.64		0.8119	0.8117	-0.4	1.31E+07	1.26	1.60	76.4 %	25%	150%
ES PCB-156/157	41.29		1.0935	1.0936	+0.2	2.32E+07	1.29	1.14	95.3 %	25%	150%
ES PCB-167	40.30		1.0673	1.0674	+0.2	1.22E+07	1.26	1.17	97.6 %	25%	150%
ES PCB-169	44.02		1.1656	1.1659	+0.8	1.05E+07	1.26	1.11	88.7 %	25%	150%
ES PCB-170	43.53		0.9084	0.9084	0	8.95E+06	1.09	1.18	94.4 %	25%	150%
ES PCB-180	42.45		0.8861	0.8860	-0.3	1.04E+07	1.07	1.44	91.8 %	25%	150%
ES PCB-188	35.55		0.7421	0.7419	-0.4	1.49E+07	1.03	1.52	91.3 %	25%	150%
ES PCB-189	46.15		0.9631	0.9631	0	1.23E+07	1.08	1.80	97.2 %	25%	150%
ES PCB-202	40.11		0.8372	0.8370	-0.5	1.42E+07	0.91	1.39	96 %	25%	150%
ES PCB-205	48.32		1.0084	1.0084	0	8.09E+06	0.88	1.26	91.3 %	25%	150%
ES PCB-206	49.79		1.0391	1.0392	+0.3	6.53E+06	0.77	1.00	93.2 %	25%	150%
ES PCB-208	45.76		0.9550	0.9549	-0.3	9.46E+06	0.78	1.38	97.6 %	25%	150%
ES PCB-209	51.28		1.0701	1.0701	0	7.69E+06	1.19	1.26	86.7 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.15		0.9341	0.9340	-0.1	1.95E+07	1.07	1.10	115 %	30%	135%
SS PCB-111	33.12		1.0747	1.0748	+0.2	1.37E+07	1.61	1.03	106 %	30%	135%
SS PCB-178	38.13		1.0099	1.0100	+0.2	1.06E+07	1.06	0.62	115 %	30%	135%
CS PCB-28	23.15		0.9341	0.9340	-0.1	1.95E+07	1.07	1.59	95.3 %	30%	135%
CS PCB-111	33.12		1.0747	1.0748	+0.2	1.37E+07	1.61	1.20	104 %	30%	135%
CS PCB-178	38.13		1.0099	1.0100	+0.2	1.06E+07	1.06	0.94	105 %	30%	135%
JS PCB-9	16.58					2.36E+07	1.64				
JS PCB-52	24.78					1.29E+07	0.76				
JS PCB-101	30.81					1.10E+07	1.55				
JS PCB-138	37.75					1.07E+07	1.31				
JS PCB-194	47.92					7.03E+06	0.90				
<b>Totals</b>											
						<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
						Mono-CBs	33.2	33.2		2.61	
						Di-CBs	603	603		6.14	
						Tri-CBs	4,670	4,670		5.76	
						Tetra-CBs	6,560	6,570		3.51	
						Penta-CBs	1,630	1,650		3.1	
						Hexa-CBs	357	390		2.96	
						Hepta-CBs	75.2	88.3		3.61	
						Octa-CBs	7.46	15.3		3.69	
						Nona-CBs	7.1	7.1		6.05	
PCB-1 2-MoCB	12.01		1.0011	1.0011	0	2.67E+05	3.05	1.21	33.2	2.87E+03	2.45
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.28	ND	2.87E+03	2.79
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00		1.30	ND	2.87E+03	2.76
PCB-4 22'-DiCB	14.60		1.0011	1.0011	0	1.26E+06	1.41	0.98	265	4.20E+03	7.57
PCB-10 26'-DiCB	14.77	J	1.0135	1.0134	-0.1	7.51E+04	SI	1.59	9.72	4.20E+03	4.66
PCB-9 25'-DiCB	16.60	J	1.0010	1.0008	-0.2	1.00E+05	SI	1.16	9.72	4.58E+03	4.81
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.29	ND	4.58E+03	4.32
PCB-6 23'-DiCB	16.99		1.0249	1.0249	0	3.66E+05	1.44	1.21	34.2	4.58E+03	4.62
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.20	ND	4.58E+03	4.64
PCB-8 24'-DiCB	17.42		1.0506	1.0507	+0.1	1.64E+06	1.57	1.22	152	4.58E+03	4.58
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.40	ND	4.58E+03	4
PCB-11 33'-DiCB	19.79	B	0.9722	0.9722	0	3.60E+05	1.43	1.17	34.8	4.58E+03	4.78
PCB-13/12 34'/34'-DiCB	20.06	J C	0.9867	0.9853	-1.7	7.65E+04	SI	1.15	7.52	4.58E+03	4.86
PCB-15 44'-DiCB	20.37		1.0008	1.0006	-0.2	9.48E+05	1.63	1.19	90.4	4.58E+03	4.71
PCB-19 22'6-TrCB	17.72		1.0010	1.0010	0	6.35E+05	0.99	1.05	139	3.14E+03	6.93
PCB-30/18 246/22'5-TrCB	19.51	C	1.1013	1.1020	+0.8	6.49E+06	1.04	1.34	1,110	3.14E+03	5.42
PCB-17 22'4-TrCB	19.90		1.1242	1.1245	+0.4	1.80E+06	1.07	1.15	362	3.14E+03	6.35
PCB-27 23'6-TrCB	20.10		1.1352	1.1356	+0.5	4.36E+05	1.02	1.55	64.7	3.14E+03	4.69
PCB-24 236-TrCB	20.23	J	1.1429	1.1430	+0.1	4.97E+04	1.03	1.52	7.52	3.14E+03	4.78
PCB-16 22'3-TrCB	20.33		1.1485	1.1486	+0.1	1.41E+06	1.07	0.82	398	3.14E+03	8.91



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.81		1.1756	1.1759	+0.4	2.26E+06	1.07	1.67	312	3.14E+03	4.37
PCB-34 23'5'-TrCB	NotFnd		0.8222	-		0.00E+00		1.44	ND	4.00E+03	4.21
PCB-23 235-TrCB	NotFnd		0.8278	-		0.00E+00		1.44	ND	4.00E+03	4.23
PCB-26/29 23'5'/245-TrCB	22.39	C	0.8386	0.8374	-1.6	1.31E+06	1.12	1.47	121	4.00E+03	4.14
PCB-25 23'4-TrCB	22.61		0.8461	0.8457	-0.5	4.76E+05	1.11	1.45	44.4	4.00E+03	4.19
PCB-31 24'5-TrCB	22.89		0.8565	0.8563	-0.3	9.04E+06	1.04	1.52	803	4.00E+03	3.99
PCB-28/20 244'/233'-TrCB	23.17	C	0.8673	0.8666	-1.0	7.75E+06	1.04	1.42	738	4.00E+03	4.28
PCB-21/33 234/23'4'-TrCB	23.39	C	0.8741	0.8747	+0.8	2.83E+06	1.06	1.47	260	4.00E+03	4.13
PCB-22 234'-TrCB	23.74		0.8882	0.8880	-0.3	2.05E+06	1.02	1.36	203	4.00E+03	4.45
PCB-36 33'5-TrCB	NotFnd		0.9402	-		0.00E+00		1.50	ND	4.00E+03	4.05
PCB-39 34'5-TrCB	NotFnd		0.9523	-		0.00E+00		1.50	ND	4.00E+03	4.05
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.36	ND	4.00E+03	4.48
PCB-35 33'4-TrCB	26.39	J	0.9871	0.9870	-0.2	9.10E+04	1.14	1.27	9.66	4.00E+03	4.77
PCB-37 344'-TrCB	26.76		1.0007	1.0008	+0.2	9.68E+05	1.11	1.32	98.7	4.00E+03	4.59
PCB-54 22'66'-TeCB	20.66	J EMPC	1.0010	1.0010	0	2.94E+04	1.14	1.02	4.53	2.43E+03	3.8
PCB-50/53 22'46/22'56'-TeCB	22.64	C	0.9147	0.9136	-1.5	1.27E+06	0.81	0.94	195	2.16E+03	3.45
PCB-45 22'36-TeCB	23.26		0.9385	0.9385	0	1.10E+06	0.78	0.82	194	2.16E+03	3.97
PCB-51 22'46'-TeCB	23.34		0.9415	0.9416	+0.1	3.29E+05	0.81	0.93	50.8	2.16E+03	3.47
PCB-46 22'36'-TeCB	23.54		0.9501	0.9500	-0.1	3.65E+05	0.79	0.77	68.1	2.16E+03	4.2
PCB-52 22'55'-TeCB	24.81		1.0009	1.0009	0	7.54E+06	0.77	0.88	1,230	2.16E+03	3.66
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	2.16E+03	2.64
PCB-43 22'35-TeCB	25.03		1.0101	1.0100	-0.2	1.62E+05	0.85	0.72	32.6	2.16E+03	4.52
PCB-69/49 23'46/22'45'-TeCB	25.25	C	1.0180	1.0188	+1.2	4.27E+06	0.77	1.08	567	2.16E+03	2.99
PCB-48 22'45-TeCB	25.51		1.0294	1.0295	+0.2	1.06E+06	0.85	0.89	171	2.16E+03	3.62
PCB-44/47/65 ...-TeCB	25.71	C	1.0382	1.0372	-1.5	6.31E+06	0.76	0.96	944	2.16E+03	3.37
PCB-59/62/75 ...-TeCB	26.00	C	1.0494	1.0491	-0.5	5.99E+05	0.79	1.23	69.8	2.16E+03	2.62
PCB-42 22'34'-TeCB	26.18		1.0562	1.0563	+0.2	1.25E+06	0.78	0.80	223	2.16E+03	4.02
PCB-41 22'34-TeCB	26.52		1.0697	1.0701	+0.6	4.11E+05	0.82	0.73	81	2.16E+03	4.43
PCB-71/40 23'4'6/22'33'-TeCB	26.61	C	1.0736	1.0738	+0.3	2.42E+06	0.80	0.92	379	2.16E+03	3.53
PCB-64 234'6-TeCB	26.81		1.0816	1.0818	+0.3	3.22E+06	0.79	1.31	354	2.16E+03	2.47
PCB-72 23'55'-TeCB	NotFnd		0.8441	-		0.00E+00		1.45	ND	2.93E+03	3.03
PCB-68 23'45'-TeCB	27.79		0.8519	0.8517	-0.3	1.51E+05	0.84	1.56	13.9	2.93E+03	2.8
PCB-57 233'5-TeCB	NotFnd		0.8634	-		0.00E+00		1.41	ND	2.93E+03	3.11
PCB-58 233'5'-TeCB	NotFnd		0.8697	-		0.00E+00		1.44	ND	2.93E+03	3.04
PCB-67 23'45-TeCB	28.53	J EMPC	0.8745	0.8743	-0.3	9.70E+04	0.65	1.49	9.35	2.93E+03	2.94
PCB-63 234'5-TeCB	28.76		0.8815	0.8814	-0.2	1.65E+05	0.69	1.58	15	2.93E+03	2.78
PCB-61/70/74/76 ...-TeCB	29.06	C	0.8904	0.8906	+0.3	1.02E+07	0.77	1.45	1,010	2.93E+03	3.02
PCB-66 23'44'-TeCB	29.33		0.8991	0.8990	-0.2	5.41E+06	0.80	1.39	559	2.93E+03	3.15
PCB-55 233'4-TeCB	NotFnd		0.9037	-		0.00E+00		1.35	ND	2.93E+03	3.24
PCB-56 233'4'-TeCB	29.92		0.9172	0.9170	-0.4	2.47E+06	0.73	1.34	266	2.93E+03	3.28
PCB-60 2344'-TeCB	30.11		0.9231	0.9230	-0.2	9.87E+05	0.73	1.36	104	2.93E+03	3.21
PCB-80 33'55'-TeCB	NotFnd		0.9331	-		0.00E+00		1.60	ND	2.93E+03	2.75
PCB-79 33'45'-TeCB	NotFnd		0.9739	-		0.00E+00		1.59	ND	2.93E+03	2.76
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.30	ND	2.93E+03	3.37
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.02	ND	1.69E+03	3.2
PCB-96 22'366'-PeCB	26.00		1.0134	1.0134	0	5.64E+04	0.63	0.90	11	1.69E+03	3.63
PCB-103 22'45'6-PeCB	NotFnd		0.8992	-		0.00E+00		0.94	ND	2.06E+03	3.73
PCB-94 22'356'-PeCB	NotFnd		0.9054	-		0.00E+00		0.81	ND	2.06E+03	4.32

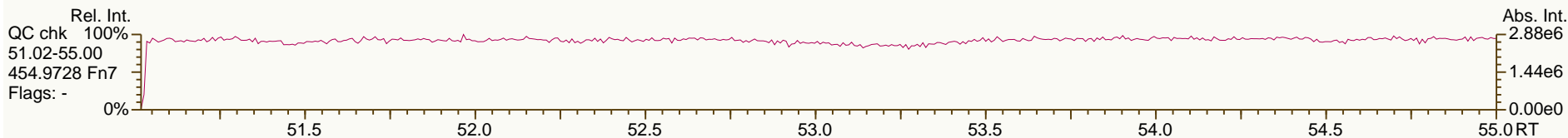
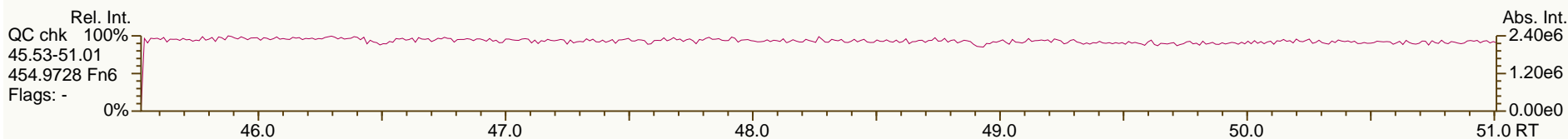
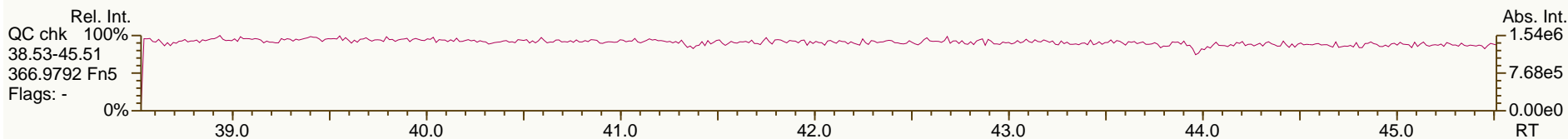
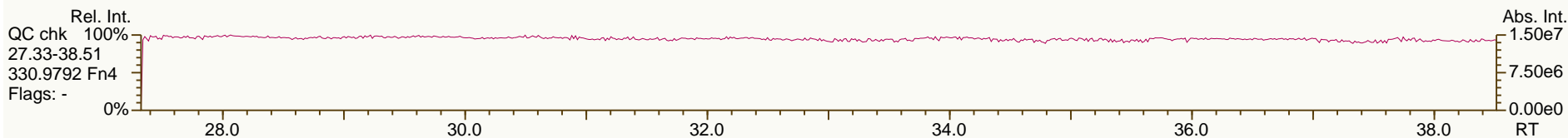
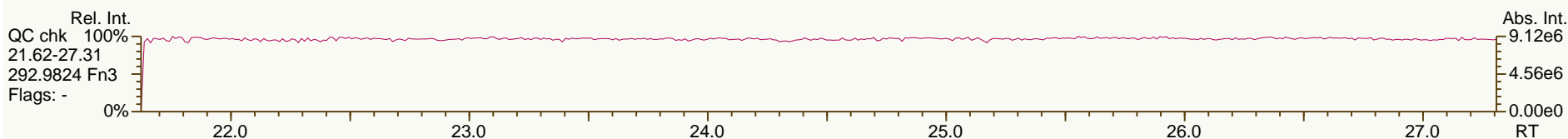
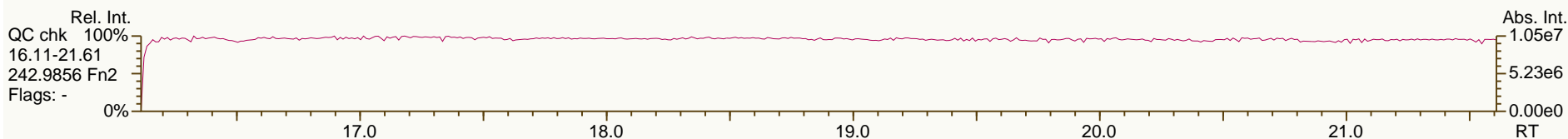
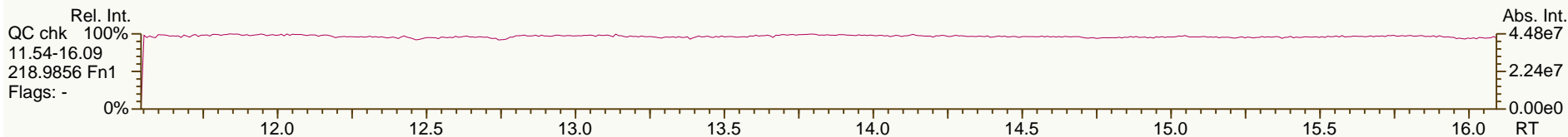
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.28		0.9179	0.9178	-0.2	1.29E+06	0.59	0.87	246	2.06E+03	4.02
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9247	-		0.00E+00		0.86	ND	2.06E+03	4.05
PCB-102 22'456'-PeCB	28.60	J EMPC	0.9283	0.9283	0	5.76E+04	0.48	0.96	9.99	2.06E+03	3.65
PCB-98 22'34'6'-PeCB	NotFnd		0.9307	-		0.00E+00		0.83	ND	2.06E+03	4.23
PCB-88 22'346-PeCB	NotFnd		0.9405	-		0.00E+00		0.84	ND	2.06E+03	4.16
PCB-91 22'34'6-PeCB	29.05		0.9426	0.9426	0	2.69E+05	0.58	0.92	48.6	2.06E+03	3.81
PCB-84 22'33'6-PeCB	29.24		0.9490	0.9489	-0.2	4.49E+05	0.62	0.74	101	2.06E+03	4.73
PCB-89 22'346'-PeCB	NotFnd		0.9626	-		0.00E+00		0.78	ND	2.06E+03	4.46
PCB-121 23'45'6-PeCB	NotFnd		0.9737	-		0.00E+00		1.19	ND	2.06E+03	2.93
PCB-92 22'355'-PeCB	30.33		0.9841	0.9841	0	1.92E+05	0.68	0.82	38.9	2.06E+03	4.27
PCB-113/90/101 ...-PeCB	30.84	C	0.9999	1.0008	+1.7	1.36E+06	0.66	0.96	234	2.06E+03	3.62
PCB-83 22'33'5-PeCB	31.25		1.0141	1.0143	+0.4	6.08E+04	0.70	0.68	14.9	2.06E+03	5.15
PCB-99 22'44'5-PeCB	31.35		1.0172	1.0173	+0.2	7.46E+05	0.61	0.97	128	2.06E+03	3.61
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.14	ND	2.06E+03	3.07
PCB-108/119/86/97/125...-PeCB	31.82	C	1.0319	1.0328	+1.7	1.05E+06	0.63	0.98	177	2.06E+03	3.55
PCB-117 234'56-PeCB	32.33	J EMPC	1.0492	1.0492	0	3.23E+04	0.80	1.07	5	2.06E+03	3.26
PCB-116/85 23456/22'344'-PeCB	32.41	C	1.0522	1.0519	-0.6	2.83E+05	0.62	0.99	47.2	2.06E+03	3.51
PCB-110 233'4'6-PeCB	32.55		1.0560	1.0563	+0.6	1.85E+06	0.63	1.05	292	2.06E+03	3.33
PCB-115 2344'6-PeCB	NotFnd		1.0588	-		0.00E+00		1.18	ND	2.06E+03	2.96
PCB-82 22'33'4-PeCB	32.84		1.0653	1.0656	+0.6	1.49E+05	0.66	0.71	35	2.06E+03	4.94
PCB-111 233'55'-PeCB	NotFnd		1.0754	-		0.00E+00		1.20	ND	2.06E+03	2.92
PCB-120 23'455'-PeCB	NotFnd		1.0884	-		0.00E+00		1.19	ND	2.06E+03	2.93
PCB-107/124 ...-PeCB	34.52	J C	0.9916	0.9917	+0.2	4.68E+04	0.63	1.09	7.08	2.06E+03	3.19
PCB-109 233'46-PeCB	34.73		0.9975	0.9978	+0.6	8.55E+04	0.53	1.14	12.5	2.06E+03	3.08
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.06	ND	2.06E+03	3.3
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		0.99	ND	2.06E+03	3.42
PCB-127 33'455'-PeCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	2.06E+03	3.39
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.46E+03	2.15
PCB-152 22'3566'-HxCB	NotFnd		1.0061	-		0.00E+00		1.02	ND	1.46E+03	2.32
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.02	ND	1.46E+03	2.32
PCB-136 22'33'66'-HxCB	31.28		1.0208	1.0209	+0.2	1.15E+05	1.17	0.95	19.2	1.46E+03	2.5
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		0.98	ND	1.46E+03	2.42
PCB-148 22'34'56'-HxCB	NotFnd		1.0713	-		0.00E+00		1.05	ND	1.46E+03	2.7
PCB-151/135 ...-HxCB	33.35	EMPC C	1.0884	1.0883	-0.2	1.44E+05	1.03	1.02	25.9	1.46E+03	2.78
PCB-154 22'44'56'-HxCB	NotFnd		1.0952	-		0.00E+00		1.17	ND	1.46E+03	2.43
PCB-144 22'345'6-HxCB	NotFnd		1.1038	-		0.00E+00		1.05	ND	1.46E+03	2.71
PCB-147/149 ...-HxCB	34.13	C	1.1137	1.1139	+0.4	4.24E+05	1.21	1.05	74.2	1.46E+03	2.7
PCB-134 22'33'56-HxCB	NotFnd		1.1196	-		0.00E+00		0.89	ND	1.46E+03	3.19
PCB-143 22'3456'-HxCB	NotFnd		1.1222	-		0.00E+00		0.96	ND	1.46E+03	2.96
PCB-139/140 ...-HxCB	NotFnd	C	1.1308	-		0.00E+00		1.06	ND	1.46E+03	2.66
PCB-131 22'33'46-HxCB	NotFnd		1.1365	-		0.00E+00		0.92	ND	1.46E+03	3.09
PCB-142 22'3456-HxCB	NotFnd		1.1412	-		0.00E+00		0.92	ND	1.46E+03	3.08
PCB-132 22'33'46'-HxCB	35.22		1.1489	1.1492	+0.6	1.62E+05	1.13	0.93	31.8	1.46E+03	3.03
PCB-133 22'33'55'-HxCB	NotFnd		1.1621	-		0.00E+00		0.97	ND	1.46E+03	2.91
PCB-165 233'55'6-HxCB	NotFnd		0.9526	-		0.00E+00		1.22	ND	1.46E+03	2.32
PCB-146 22'34'55'-HxCB	36.18		0.9583	0.9583	0	1.02E+05	1.16	1.07	17.5	1.46E+03	2.65
PCB-161 233'45'6-HxCB	NotFnd		0.9615	-		0.00E+00		1.32	ND	1.46E+03	2.15
PCB-153/168 ...-HxCB	36.71	C	0.9729	0.9723	-1.3	4.82E+05	1.25	1.26	70.6	1.46E+03	2.26

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.87		0.9767	0.9766	-0.2	9.29E+04	1.15	1.00	17.1	1.46E+03	2.83
PCB-130 22'33'45'-HxCB	37.22		0.9859	0.9859	0	5.31E+04	1.18	0.88	11.2	1.46E+03	3.24
PCB-137 22'344'5'-HxCB	NotFnd		0.9911	-		0.00E+00		1.00	ND	1.46E+03	2.84
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9933	-		0.00E+00		1.36	ND	1.46E+03	2.08
PCB-163/138/129 ...-HxCB	37.78	C	1.0011	1.0007	-0.9	5.23E+05	1.24	1.06	90.6	1.46E+03	2.67
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.24	ND	1.46E+03	2.29
PCB-158 233'44'6'-HxCB	38.11		1.0096	1.0096	0	8.24E+04	1.10	1.36	11.2	1.46E+03	2.09
PCB-128/166 ...-HxCB	38.87	J C	0.9642	0.9645	+0.7	7.36E+04	1.25	0.95	13.2	1.64E+03	3.06
PCB-159 233'455'-HxCB	NotFnd		0.9845	-		0.00E+00		1.12	ND	1.64E+03	2.62
PCB-162 233'4'55'-HxCB	NotFnd		0.9904	-		0.00E+00		1.12	ND	1.64E+03	2.61
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.10	ND	1.61E+03	2.14
PCB-179 22'33'566'-HpCB	35.85		1.0087	1.0086	-0.2	7.82E+04	1.02	1.03	10.6	1.61E+03	2.27
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		0.99	ND	1.61E+03	2.36
PCB-176 22'33'466'-HpCB	NotFnd		1.0299	-		0.00E+00		1.12	ND	1.61E+03	2.11
PCB-186 22'34566'-HpCB	NotFnd		1.0412	-		0.00E+00		1.04	ND	1.61E+03	2.26
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0730	-		0.00E+00		0.77	ND	1.61E+03	3.07
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0884	-		0.00E+00		1.04	ND	2.08E+03	4.24
PCB-187 22'34'55'6'-HpCB	38.93		1.0948	1.0950	+0.5	9.09E+04	1.02	1.10	16.5	2.08E+03	4.01
PCB-182 22'344'56'-HpCB	NotFnd		1.0999	-		0.00E+00		1.13	ND	2.08E+03	3.92
PCB-183 22'344'5'6'-HpCB	39.45	J EMPC	1.1096	1.1097	+0.2	2.92E+04	0.77	1.14	5.13	2.08E+03	3.87
PCB-185 22'3455'6'-HpCB	NotFnd		1.1121	-		0.00E+00		1.08	ND	2.08E+03	4.09
PCB-174 22'33'456'-HpCB	39.65		1.1152	1.1154	+0.5	5.54E+04	1.13	0.92	12.1	2.08E+03	4.8
PCB-177 22'33'45'6'-HpCB	40.02	J EMPC	1.1257	1.1257	0	3.66E+04	0.83	0.93	7.94	2.08E+03	4.78
PCB-181 22'344'56'-HpCB	NotFnd		1.1355	-		0.00E+00		1.05	ND	2.08E+03	4.24
PCB-171/173 ...-HpCB	NotFnd	C	1.1407	-		0.00E+00		0.93	ND	2.08E+03	4.76
PCB-172 22'33'455'-HpCB	NotFnd		0.9083	-		0.00E+00		0.93	ND	2.08E+03	4.77
PCB-192 233'455'6'-HpCB	NotFnd		0.9137	-		0.00E+00		1.20	ND	2.08E+03	3.7
PCB-180/193 ...-HpCB	42.47	C	0.9197	0.9203	+1.5	1.36E+05	1.11	1.13	24.2	2.08E+03	3.94
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9269	-		0.00E+00		1.23	ND	2.08E+03	3.61
PCB-170 22'33'44'5'-HpCB	43.54		0.9437	0.9436	-0.3	5.36E+04	0.93	1.06	11.8	2.08E+03	4.63
PCB-190 233'44'56'-HpCB	NotFnd		0.9535	-		0.00E+00		1.42	ND	2.08E+03	3.46
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		0.83	ND	1.83E+03	3.16
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0202	-		0.00E+00		0.90	ND	1.83E+03	2.91
PCB-204 22'344'566'-OcCB	NotFnd		1.0346	-		0.00E+00		0.84	ND	1.83E+03	3.12
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0394	-		0.00E+00		0.94	ND	1.83E+03	2.78
PCB-200 22'33'4566'-OcCB	NotFnd		1.0417	-		0.00E+00		0.83	ND	1.83E+03	3.15
PCB-198/199 ...-OcCB	44.13	J EMPC C	1.0997	1.1002	+1.3	3.19E+04	0.71	0.59	7.87	1.83E+03	4.4
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1141	-		0.00E+00		0.61	ND	1.83E+03	4.28
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1184	-		0.00E+00		0.62	ND	1.83E+03	4.18
PCB-195 22'33'44'56'-OcCB	NotFnd		0.9518	-		0.00E+00		0.93	ND	1.81E+03	5.05
PCB-194 22'33'44'55'-OcCB	47.93	J	0.9921	0.9919	-0.6	2.75E+04	0.91	0.95	7.46	1.81E+03	4.93
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.81E+03	4.22
PCB-208 22'33'455'66'-NoCB	45.78	J	1.0005	1.0005	0	3.26E+04	0.74	1.01	7.1	2.06E+03	4.9
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0177	-		0.00E+00		1.05	ND	2.06E+03	4.72
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.01	ND	2.06E+03	7.2

SGS ID: A6492\_11883\_PCB\_004-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

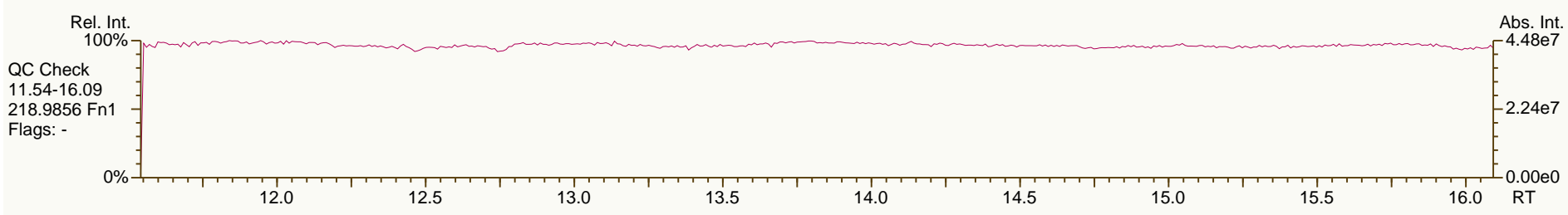
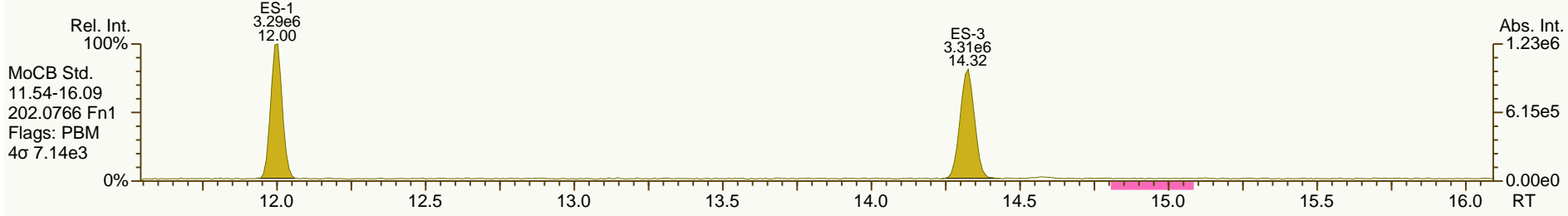
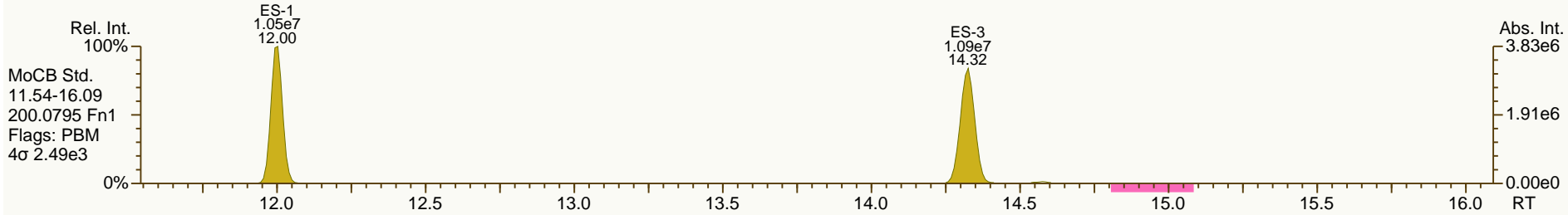
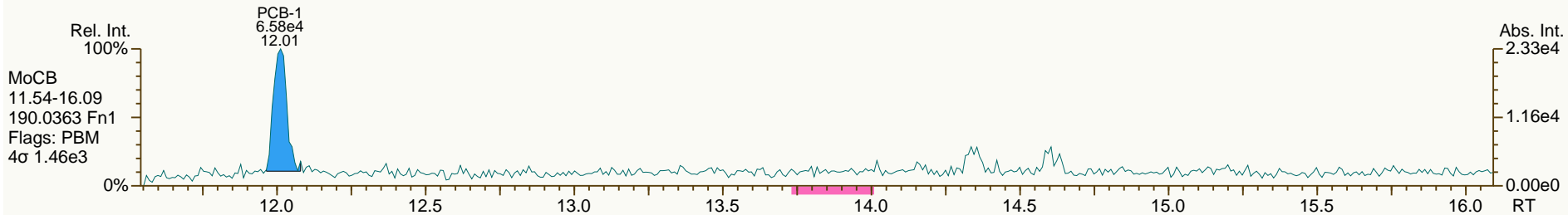
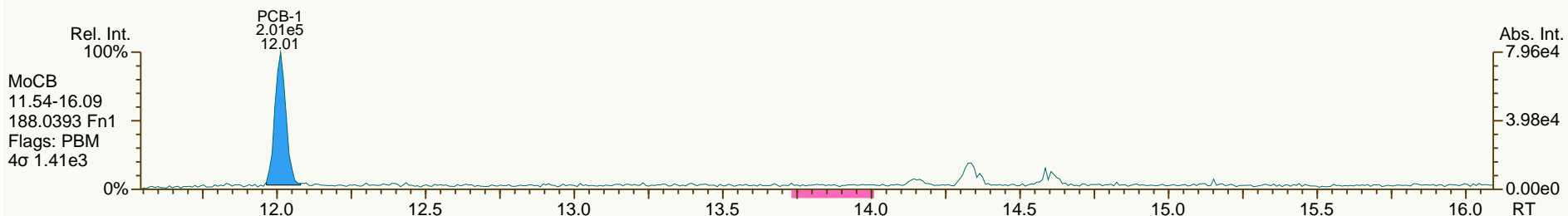
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
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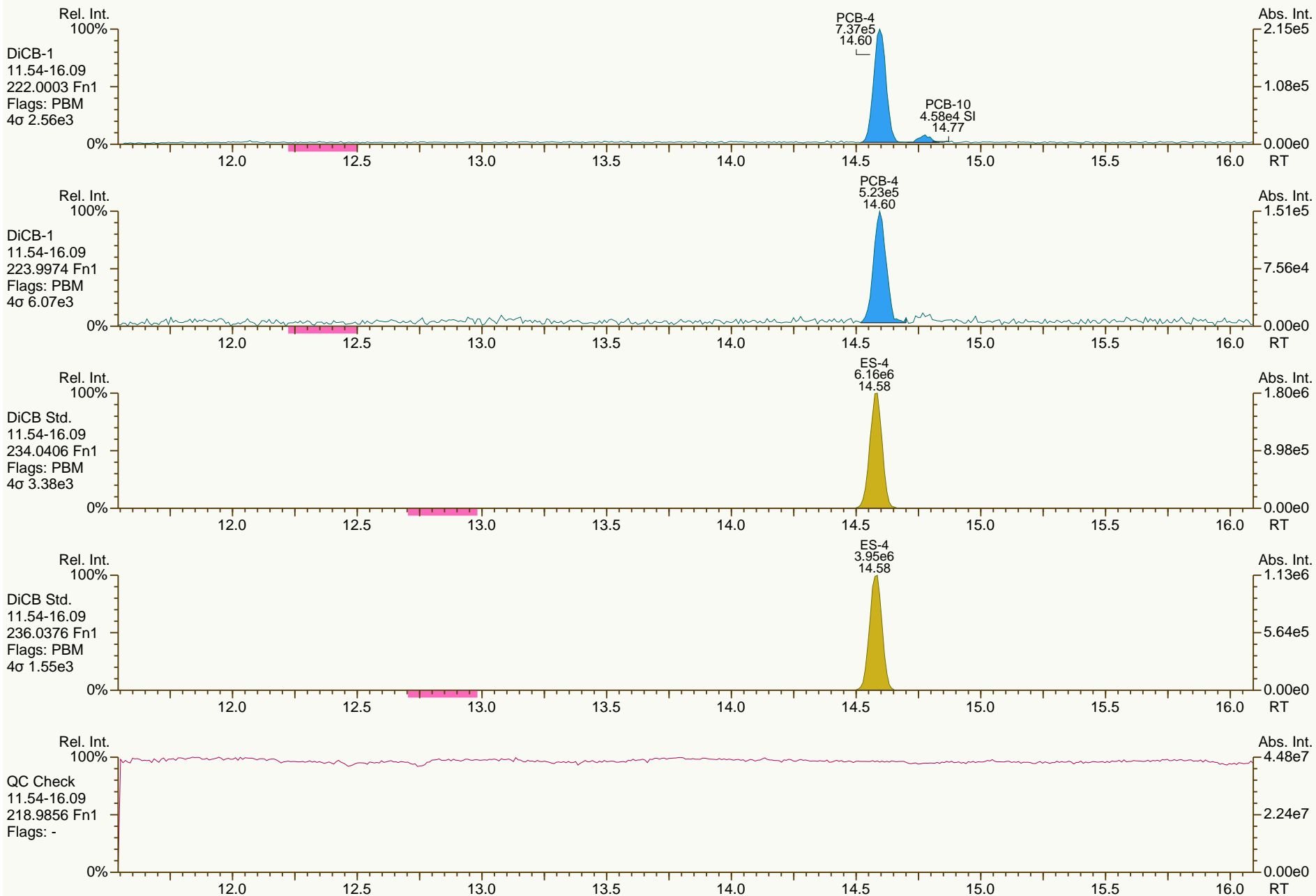
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
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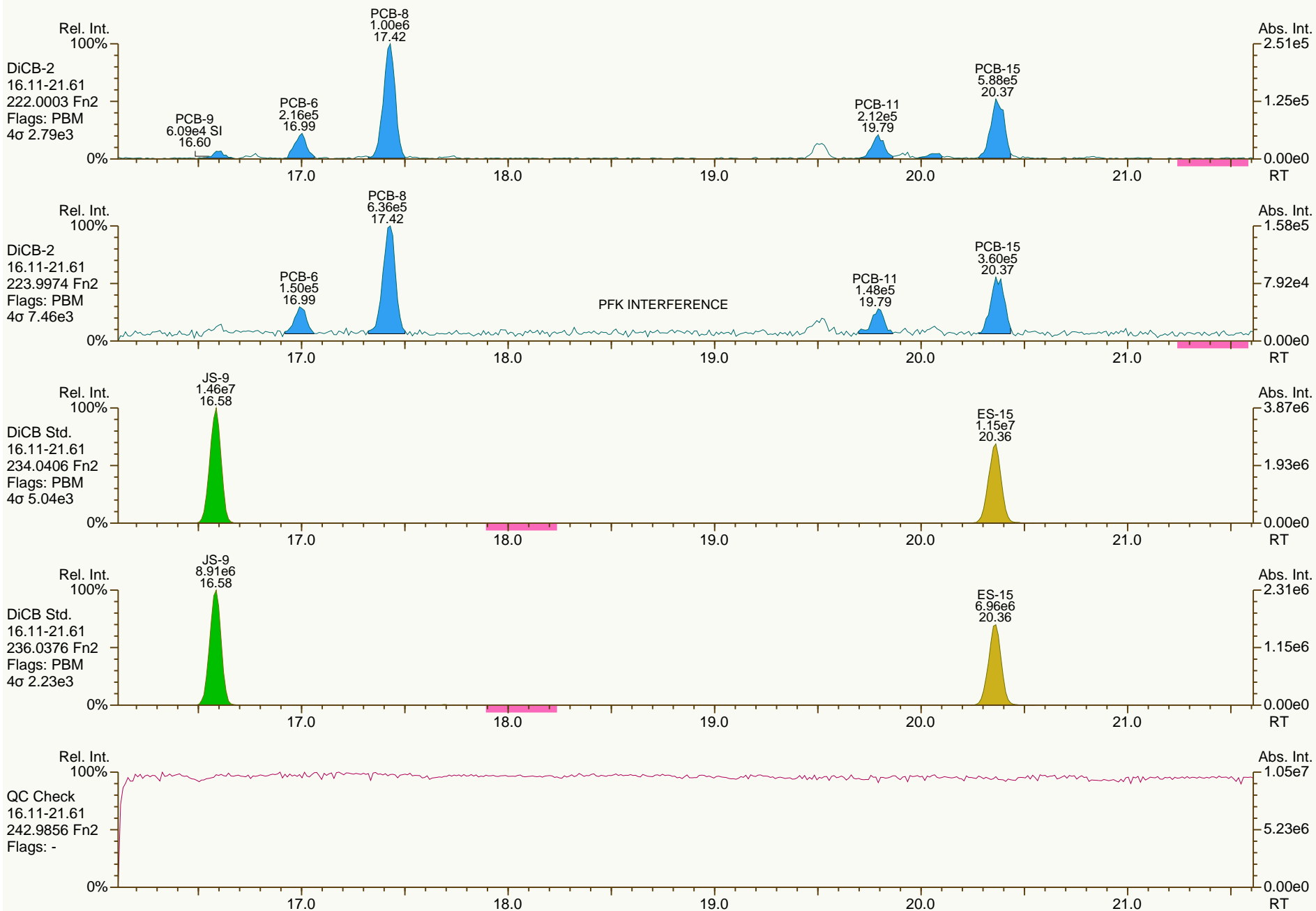
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SGS ID: A6492\_11883\_PCB\_004-RJ  
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Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
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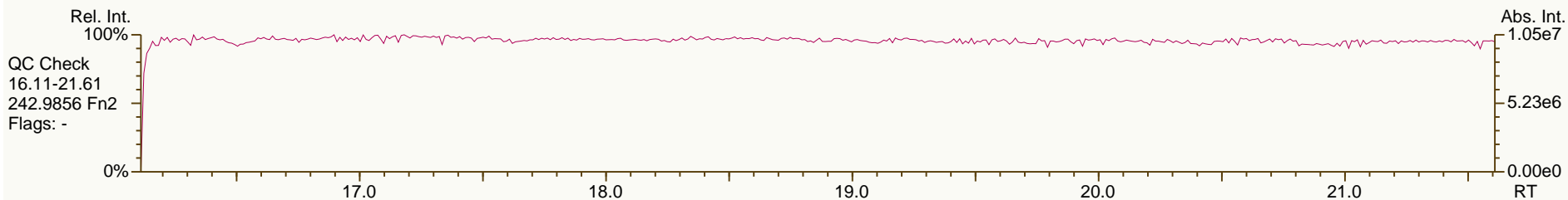
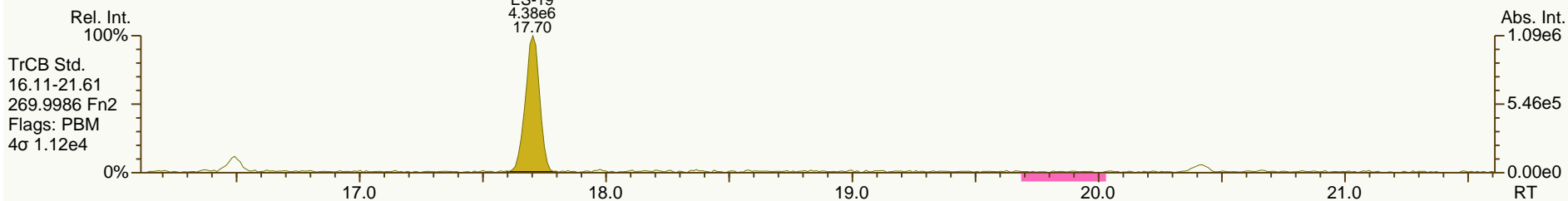
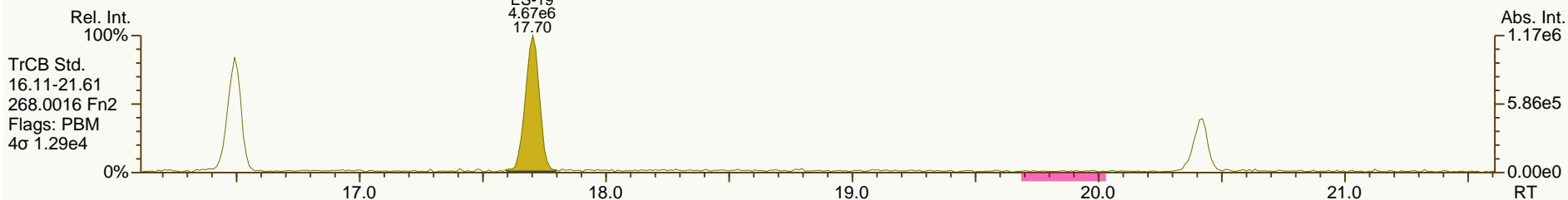
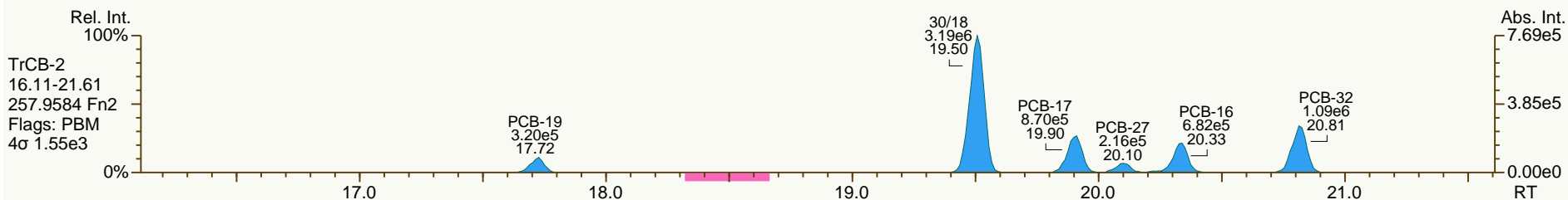
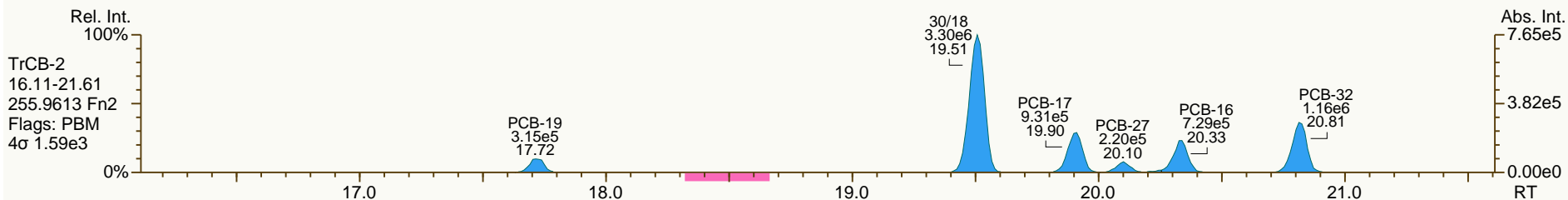
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

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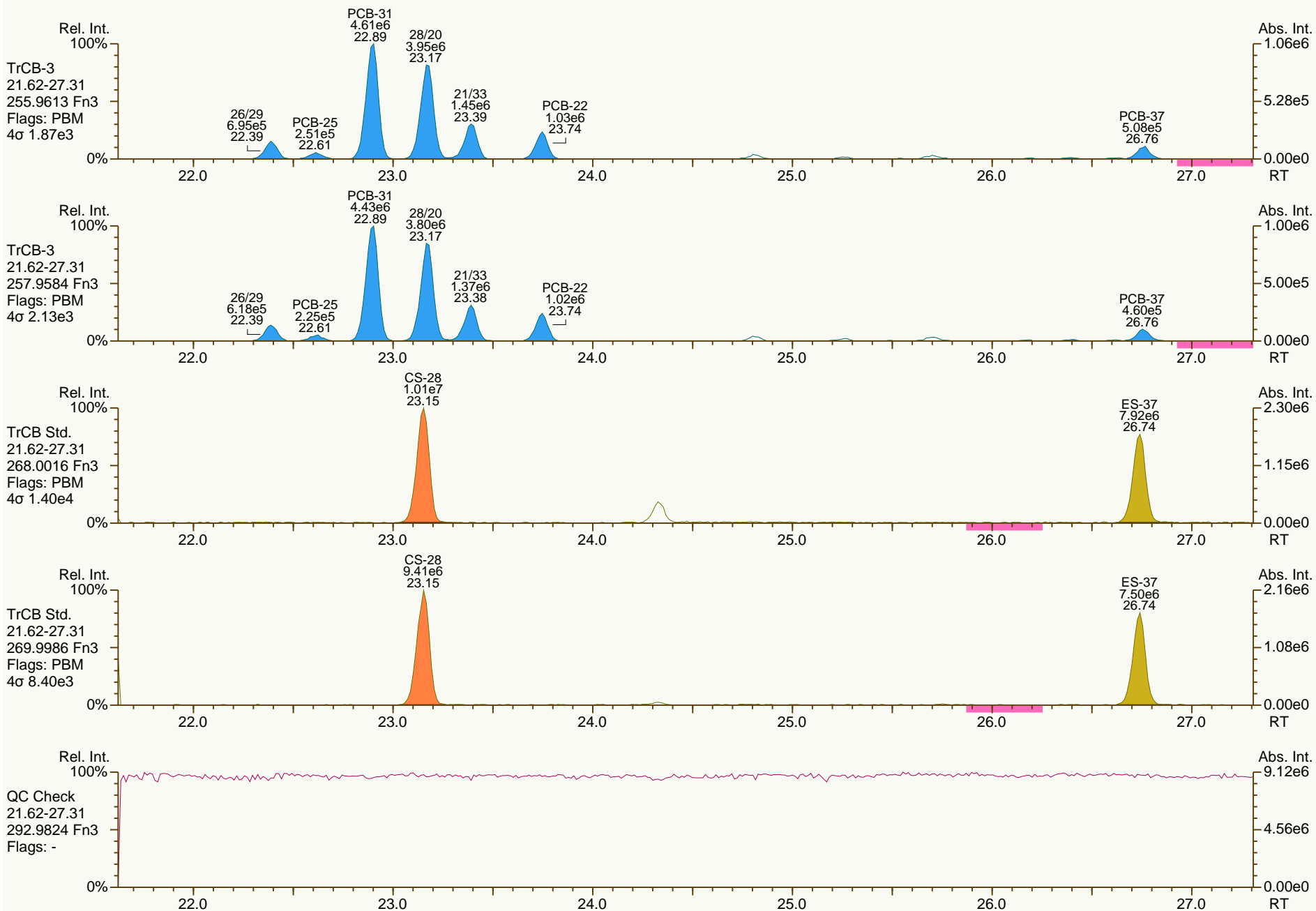




SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
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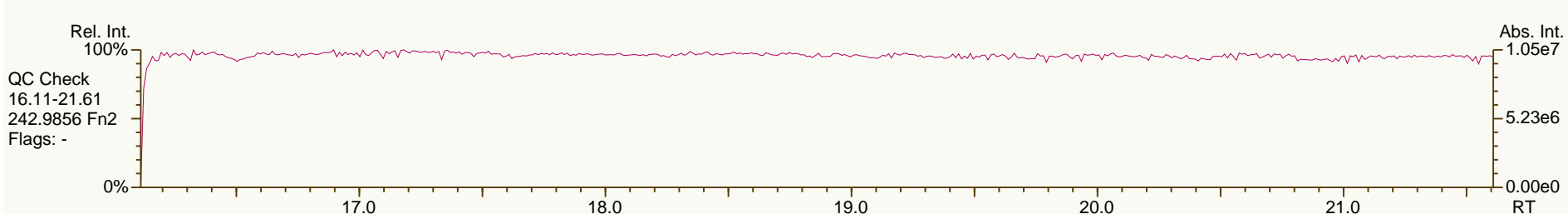
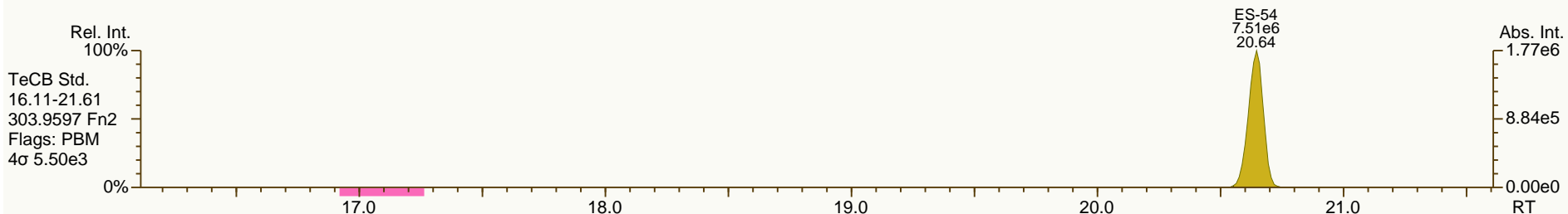
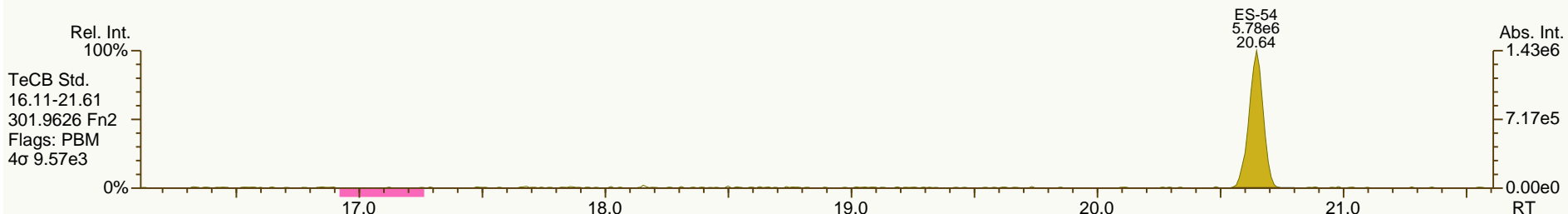
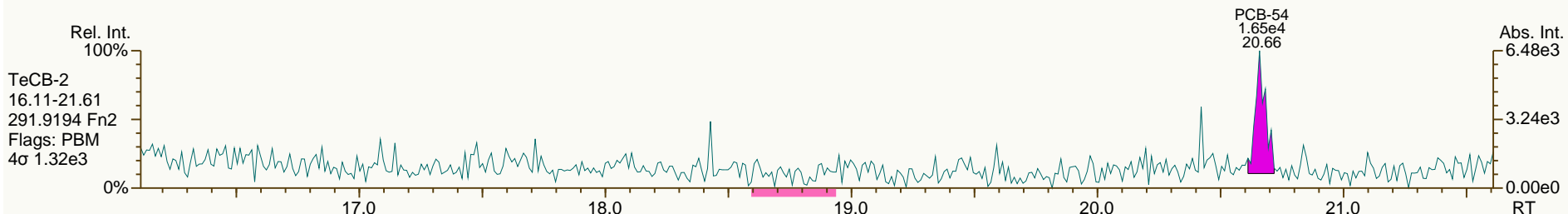
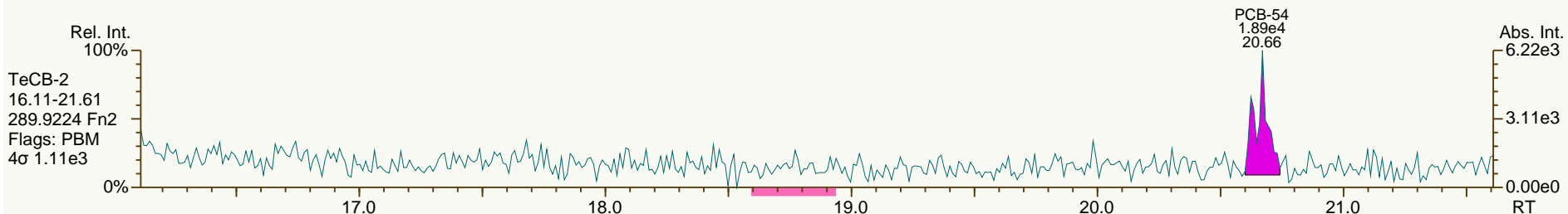
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 Instr: [ILM] AutoSpec-Ultima MM4

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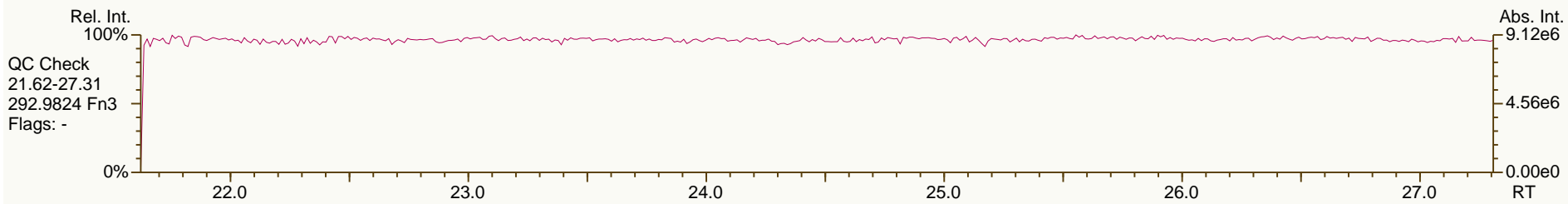
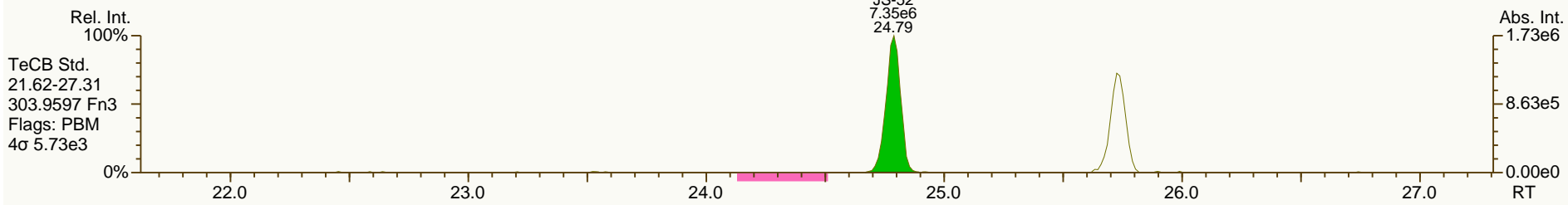
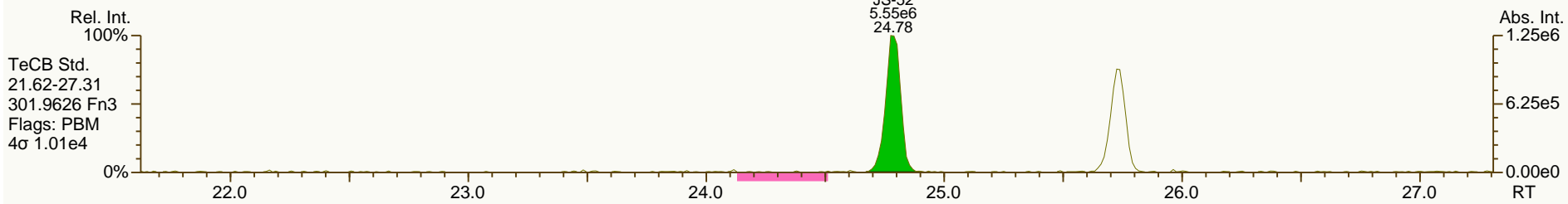
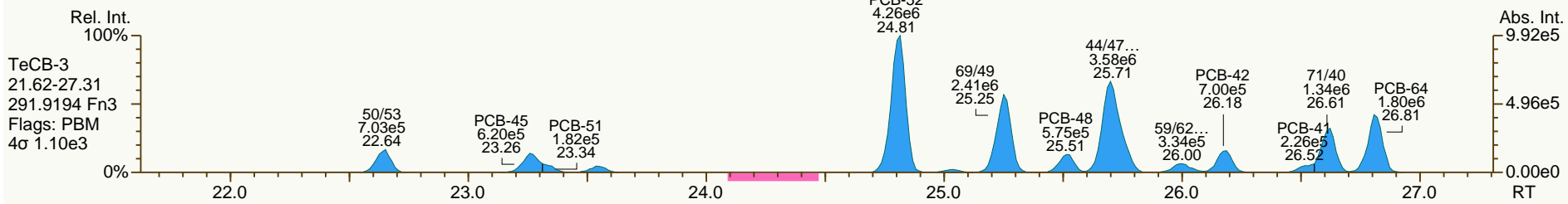
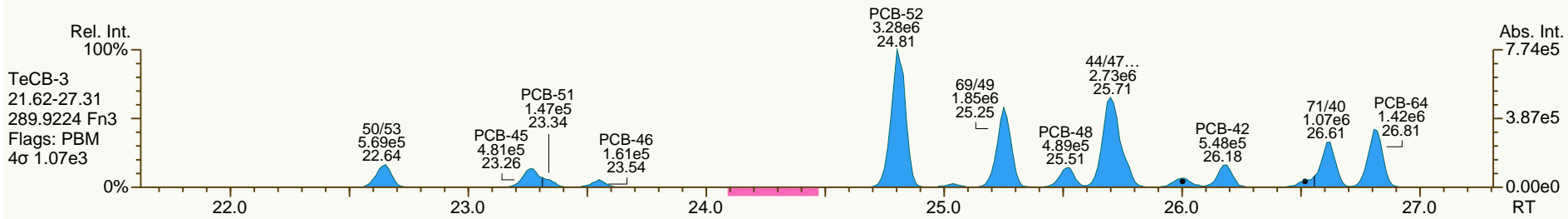
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

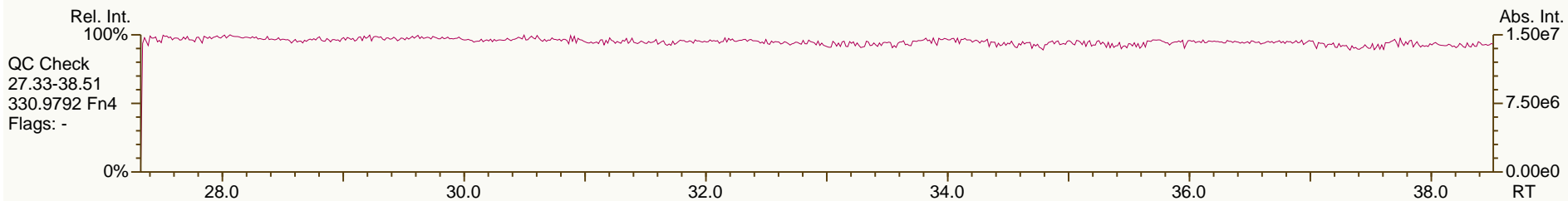
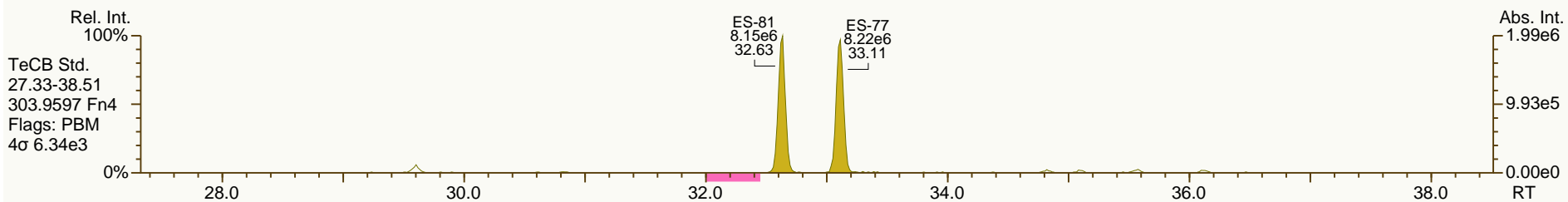
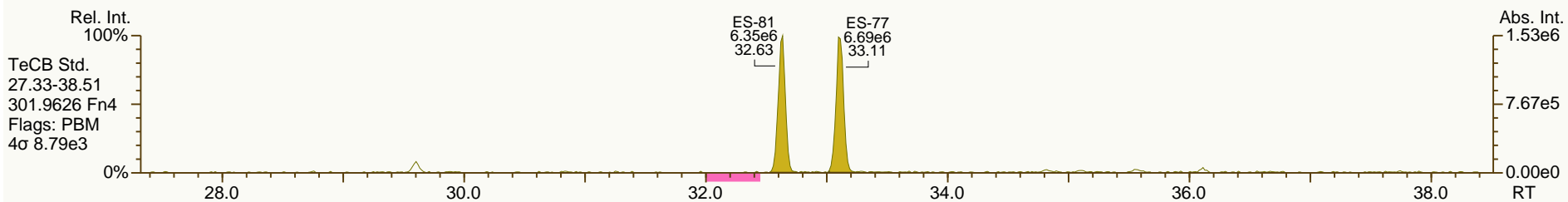
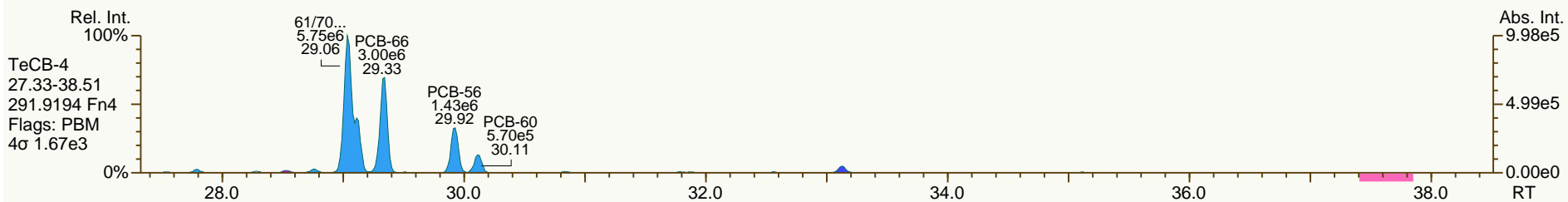
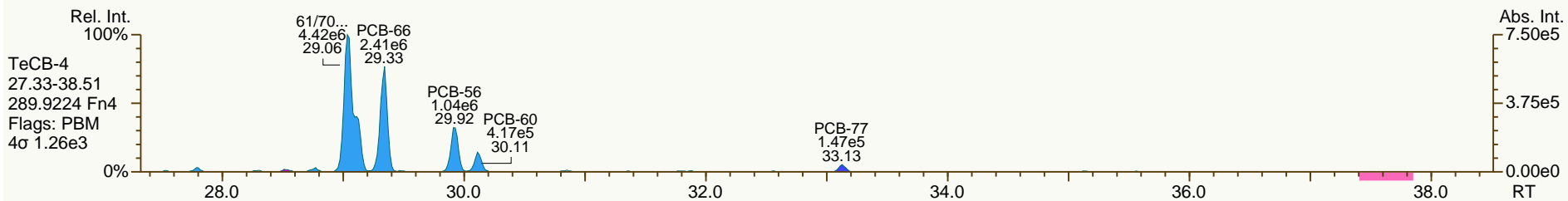
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

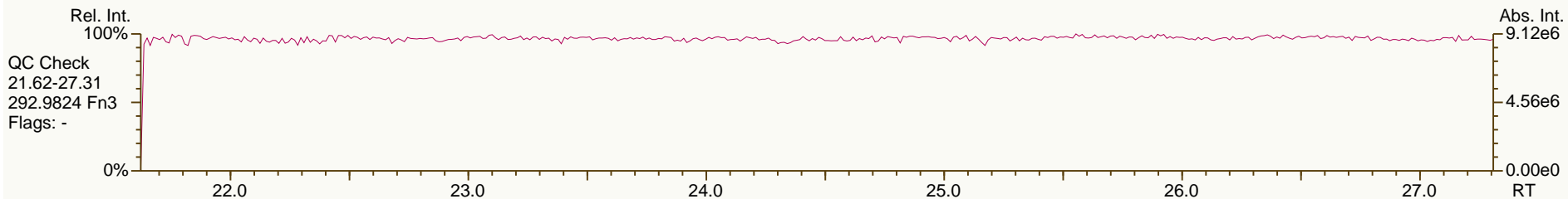
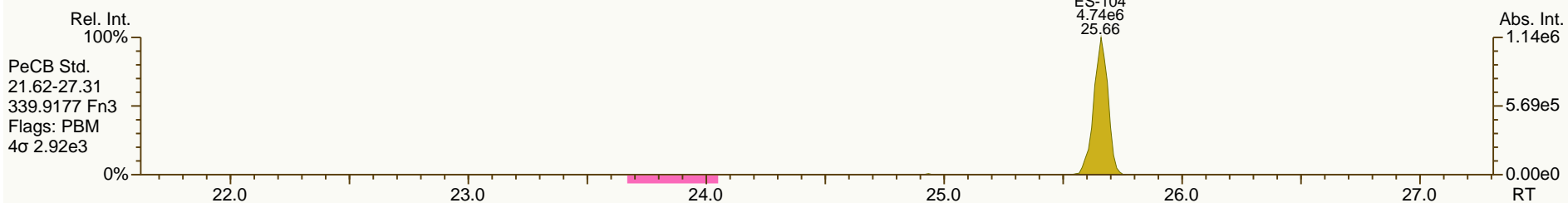
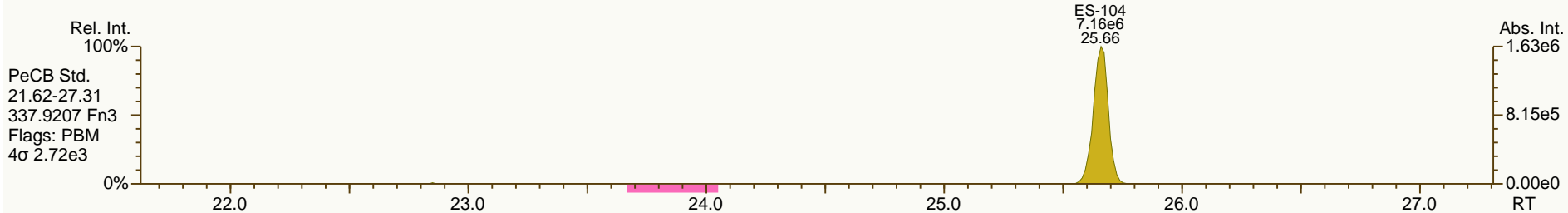
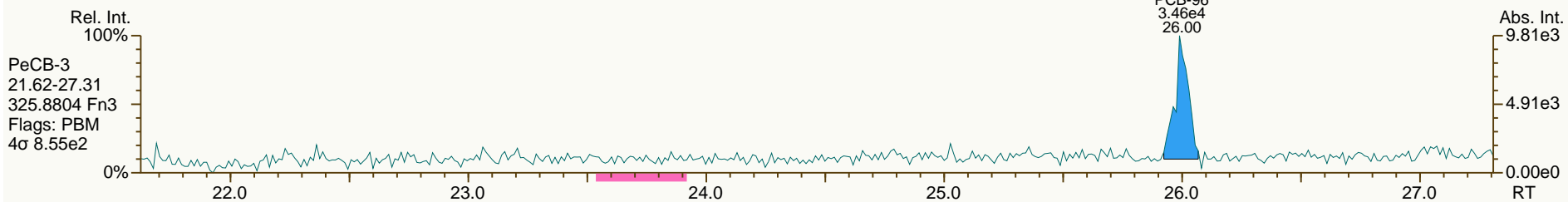
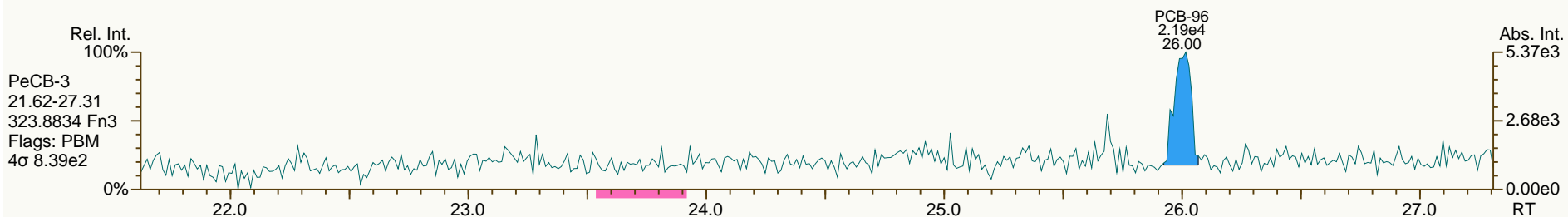
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
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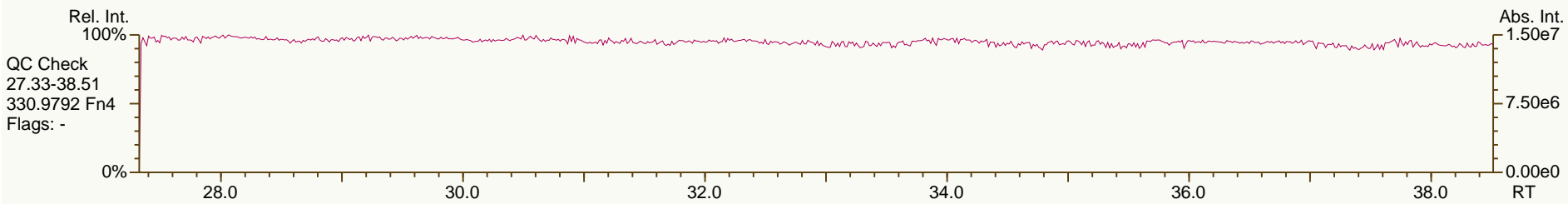
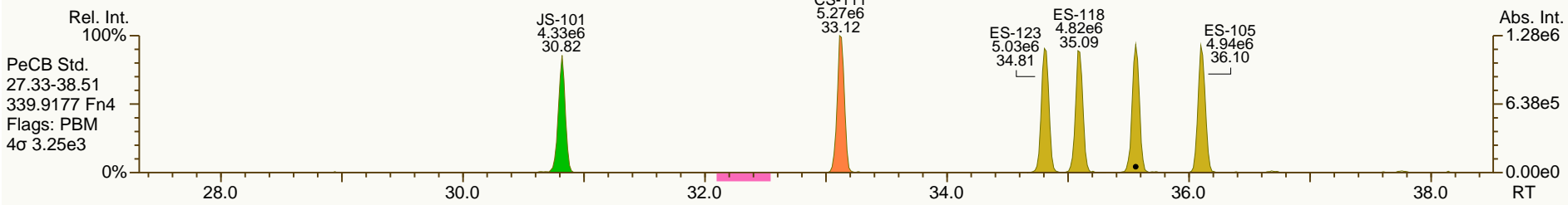
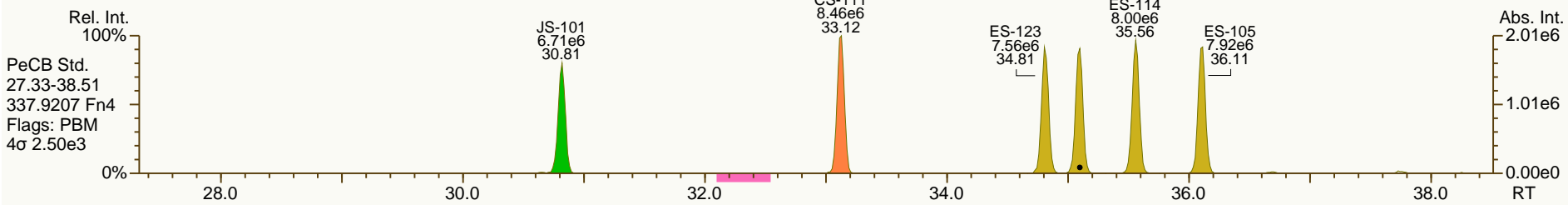
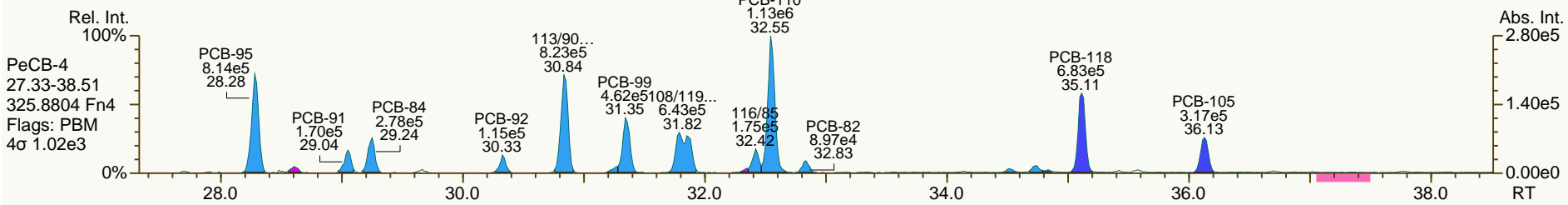
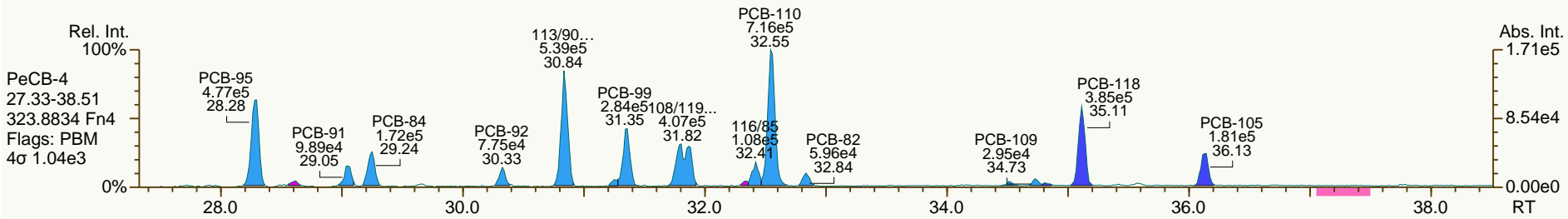
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

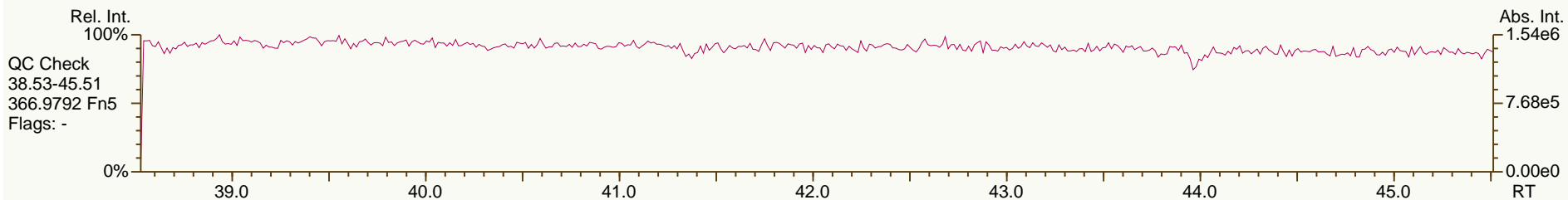
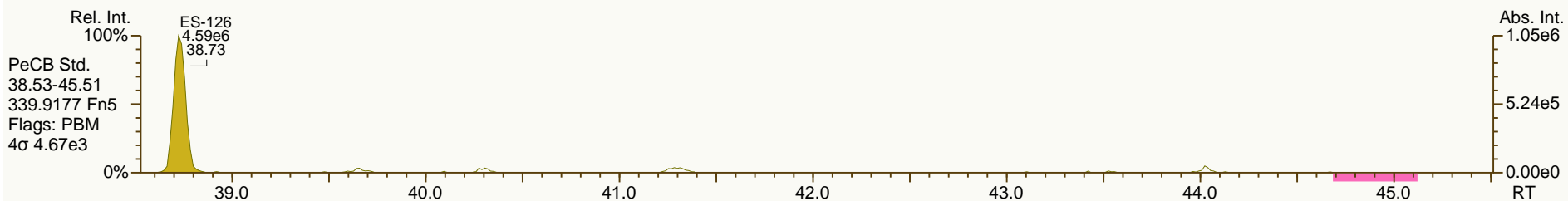
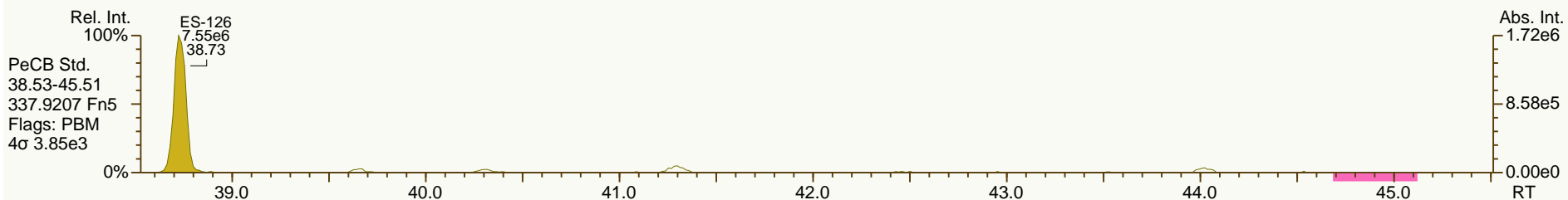
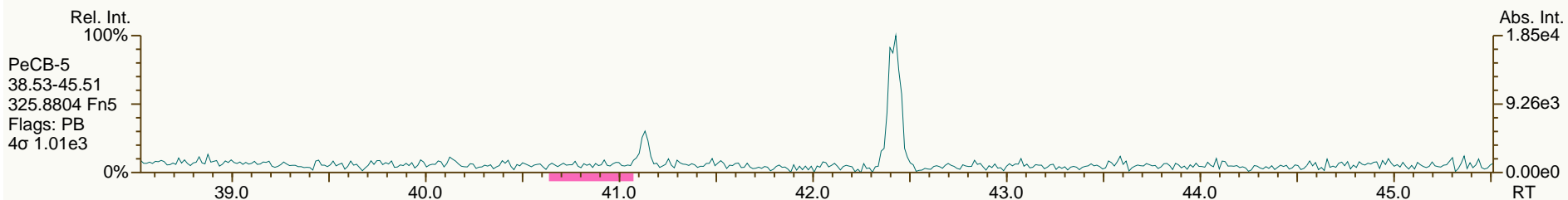
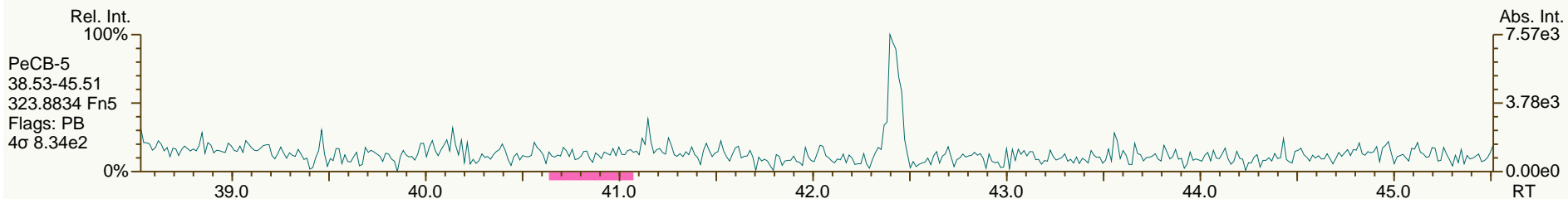
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

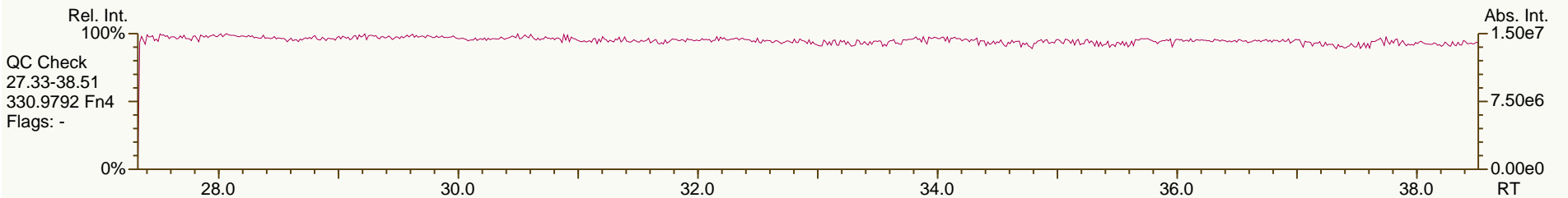
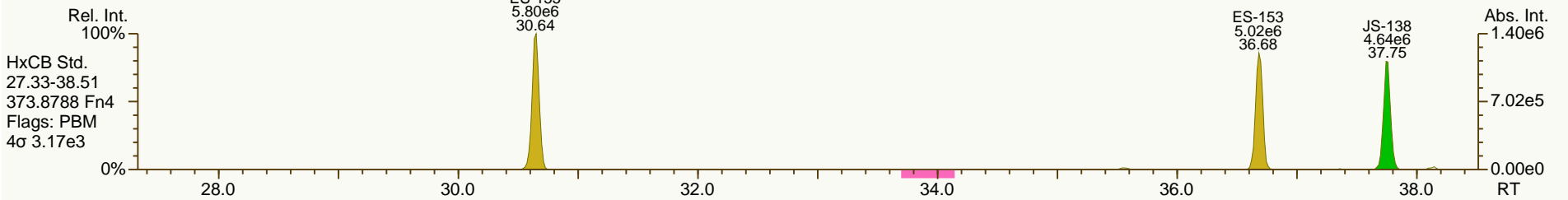
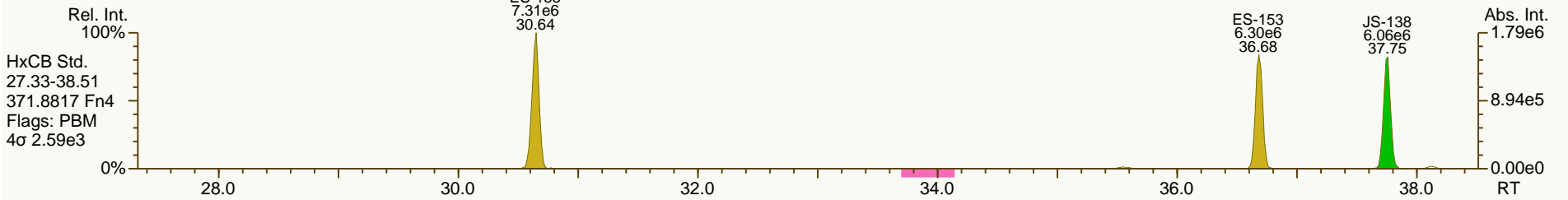
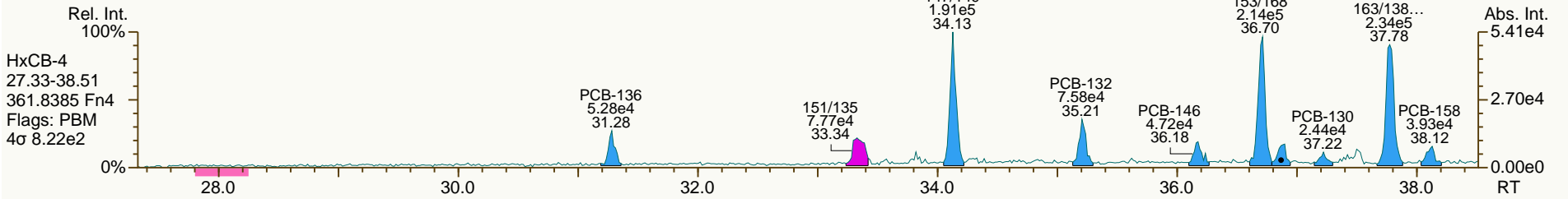
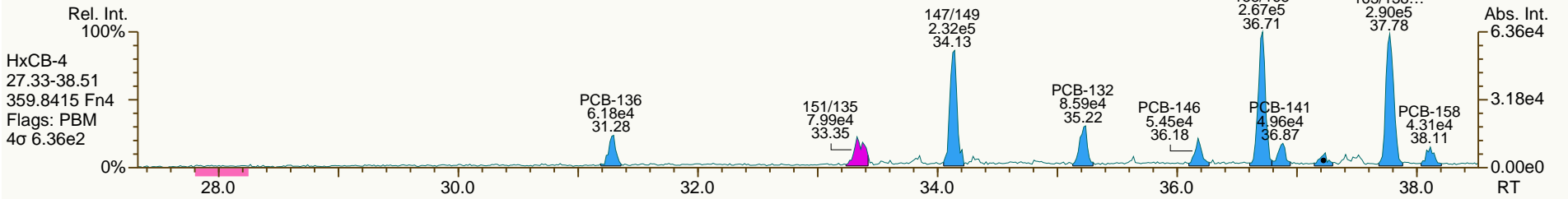
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

Acq: 24-Mar-2014 20:36:12  
 User: CTW Datafile: 140324S11





SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

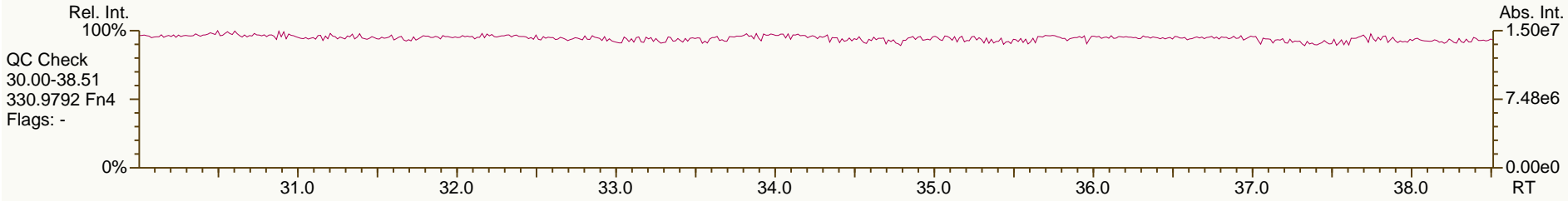
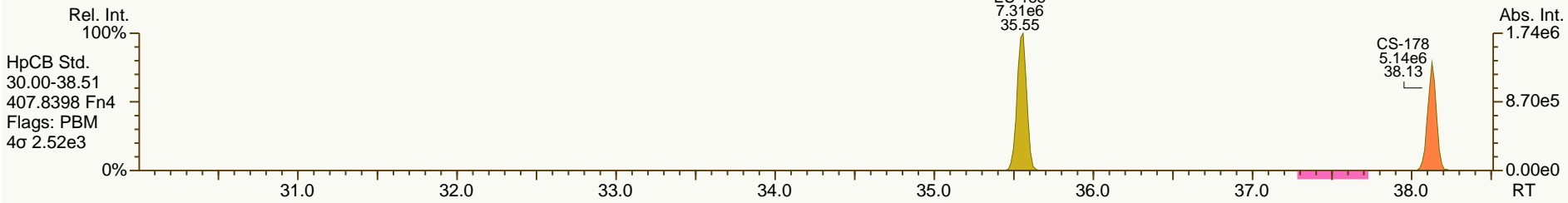
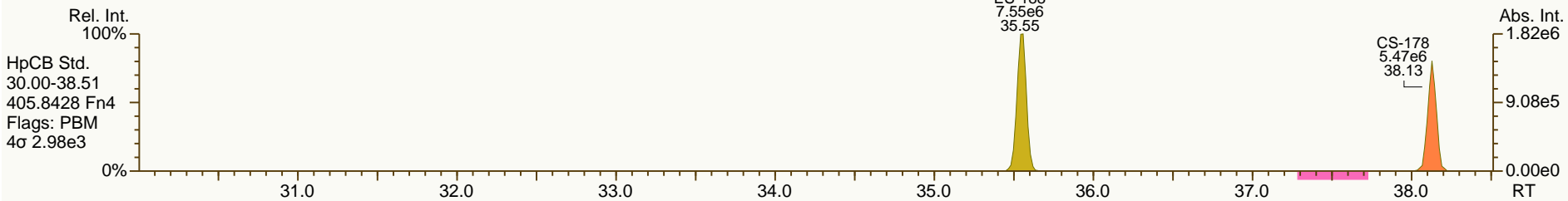
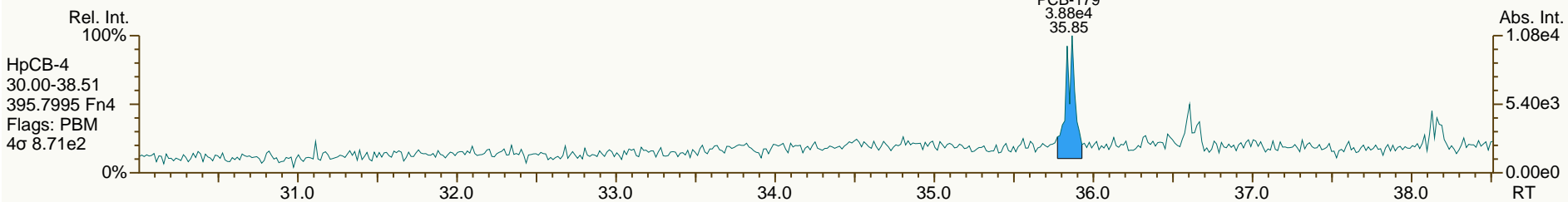
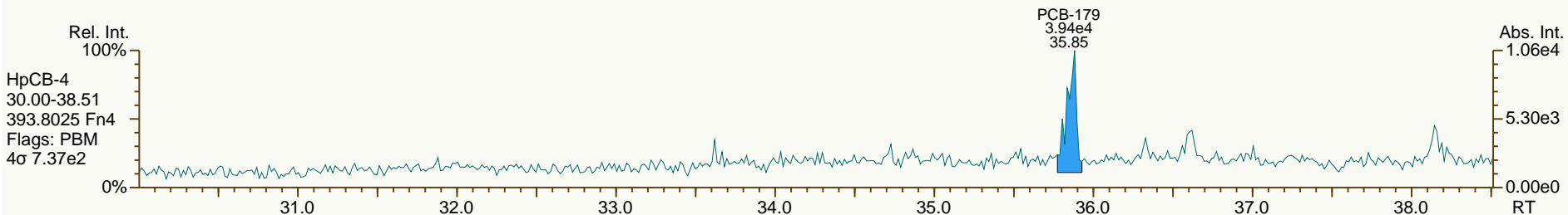
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

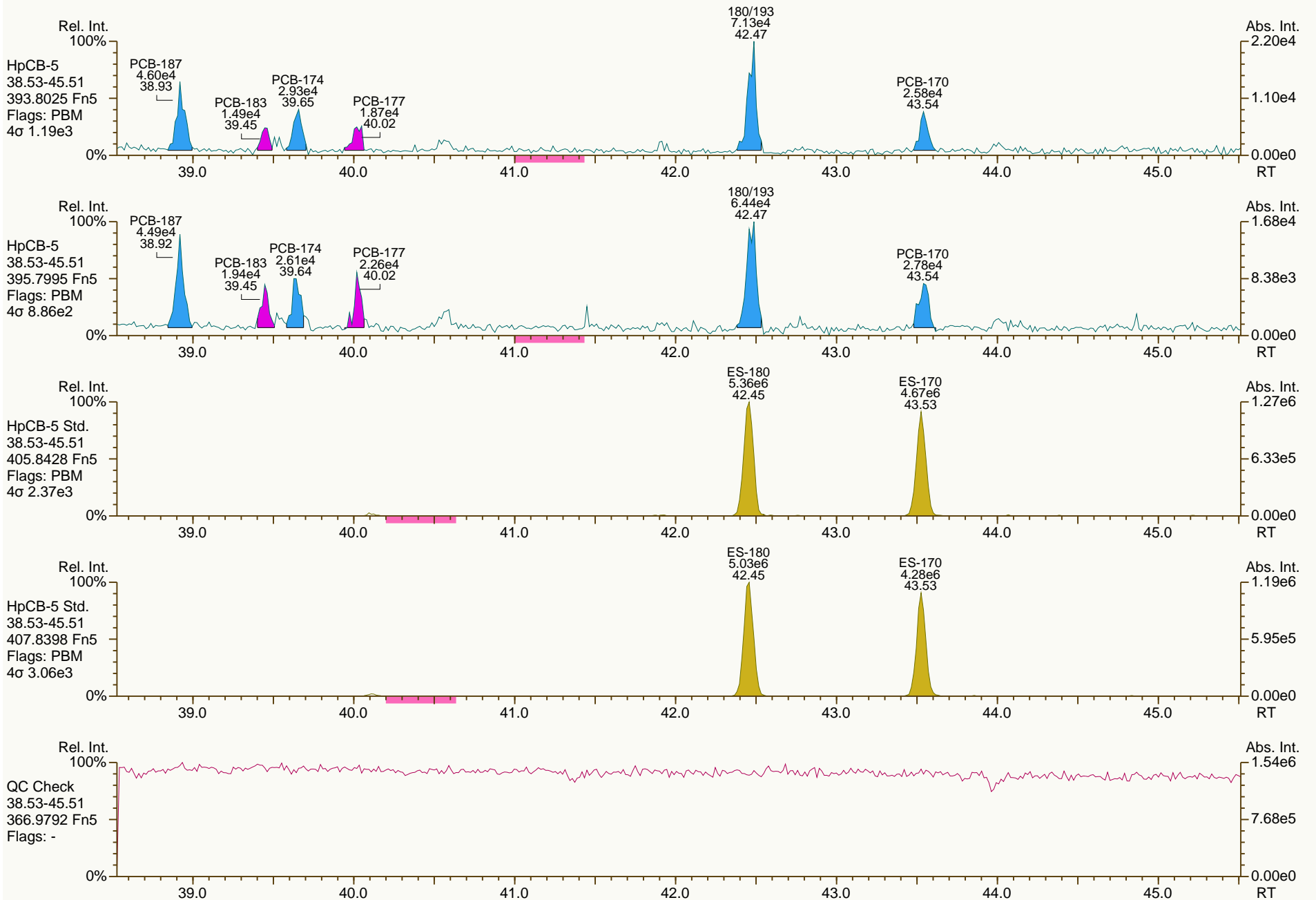
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

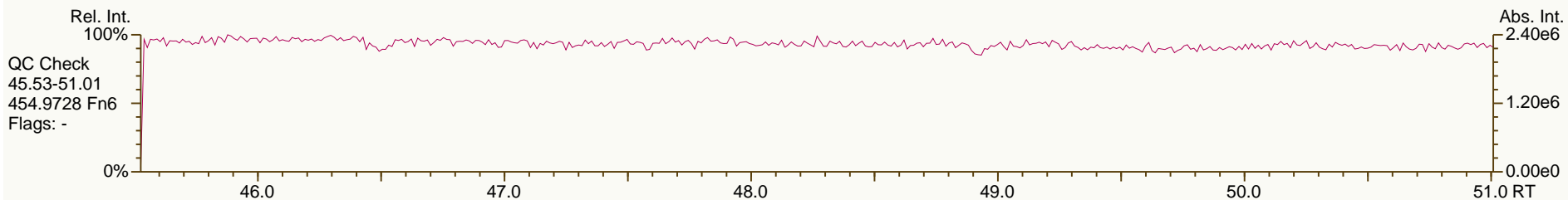
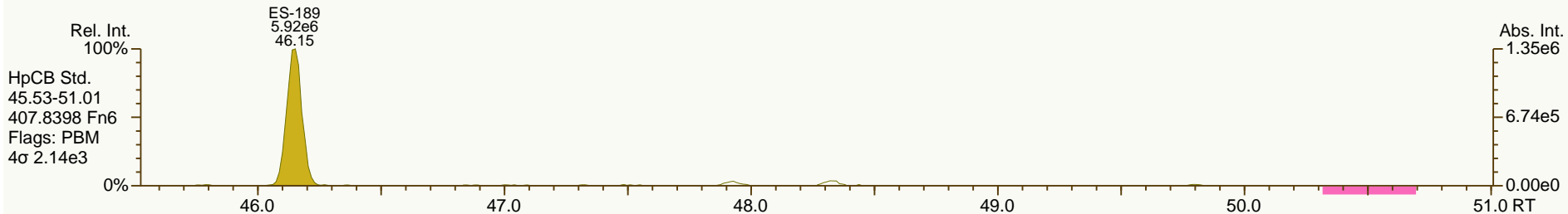
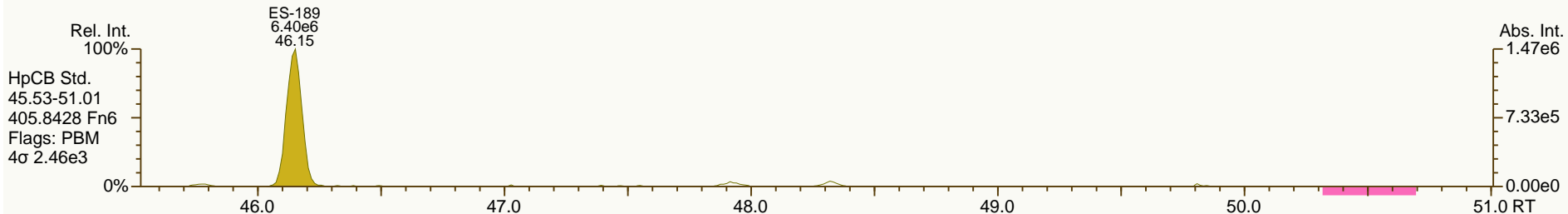
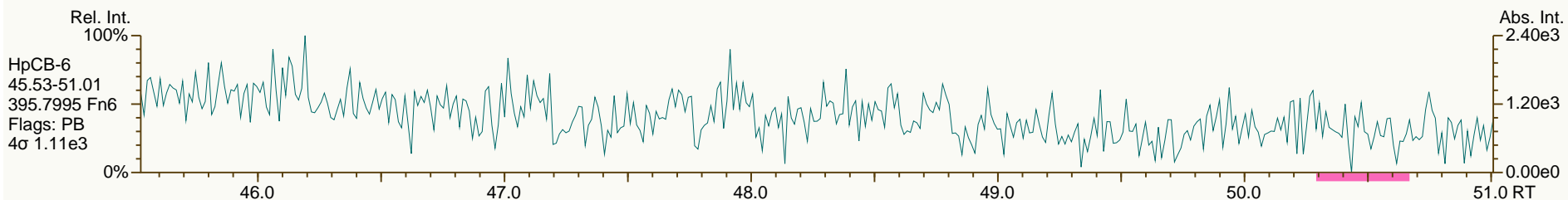
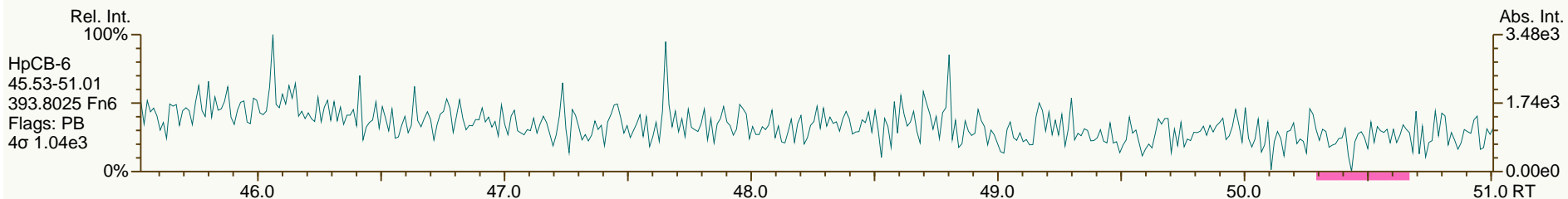
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

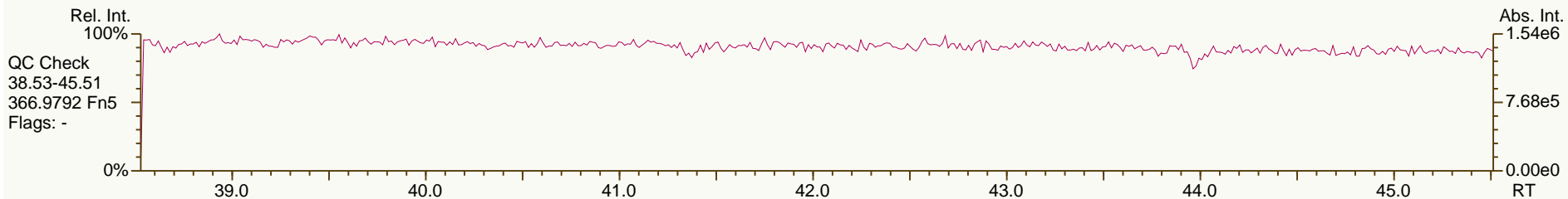
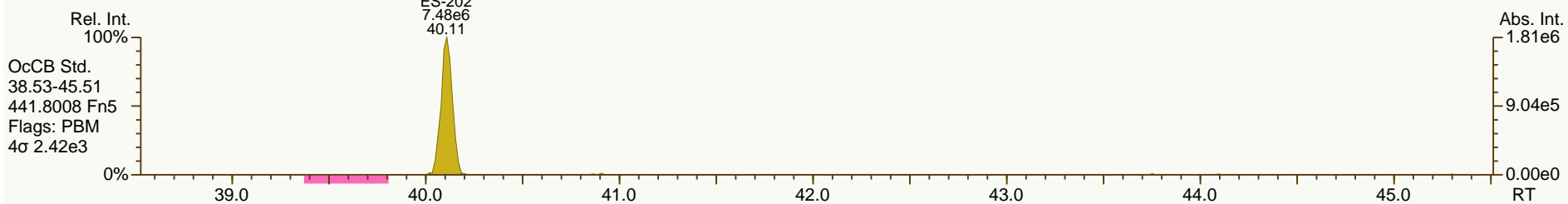
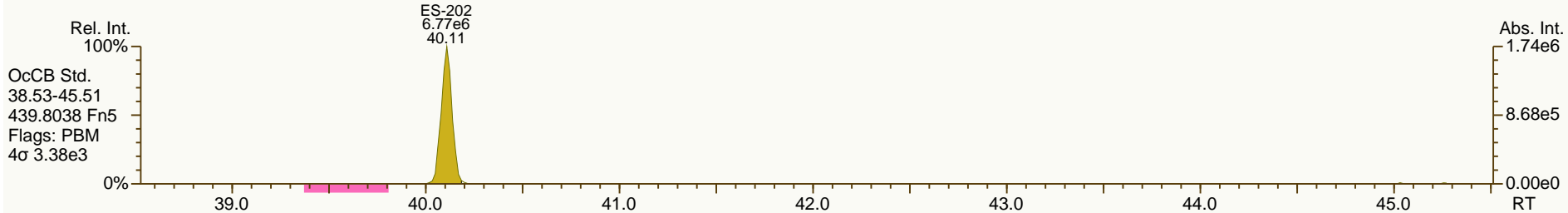
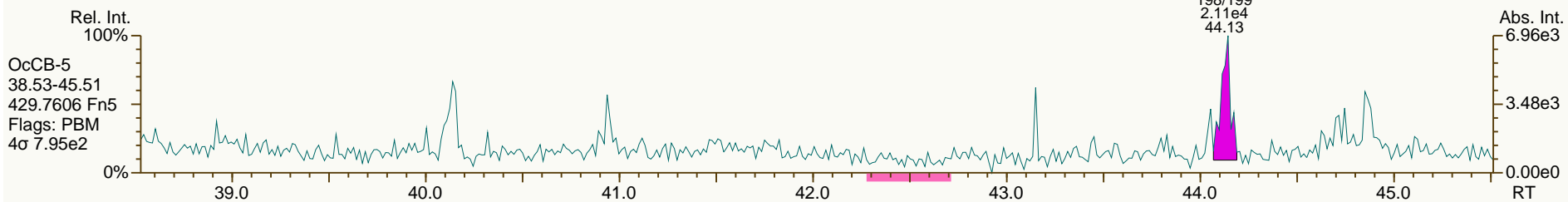
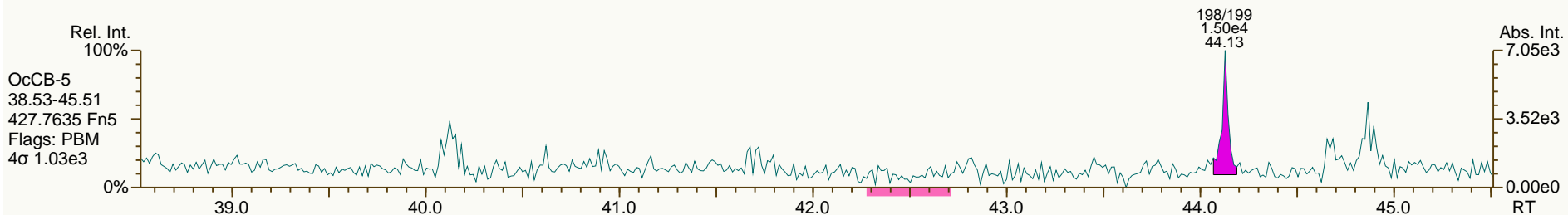
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

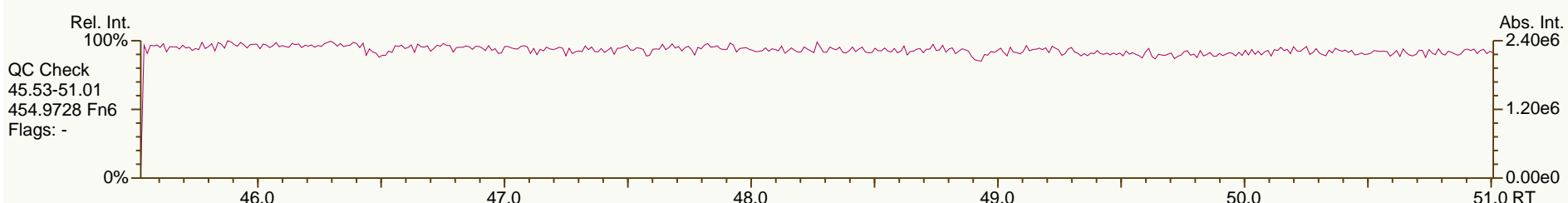
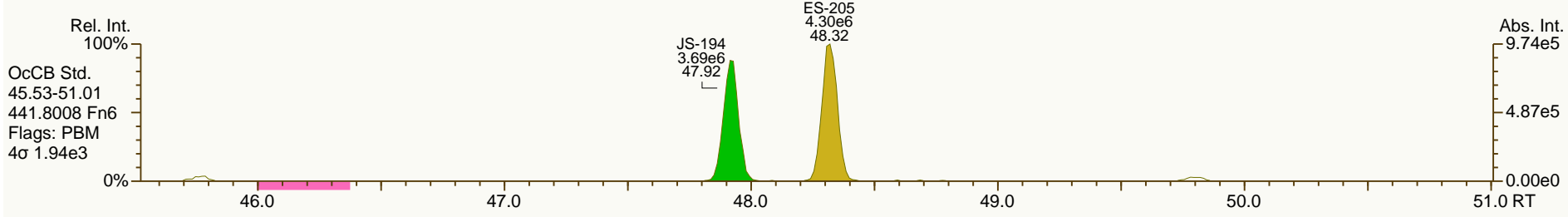
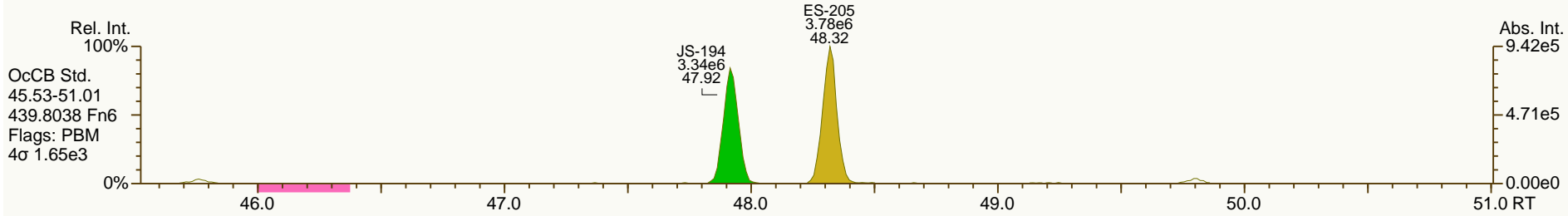
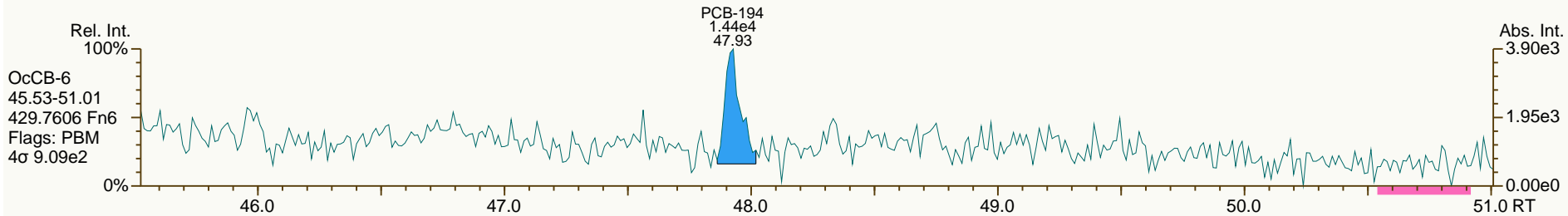
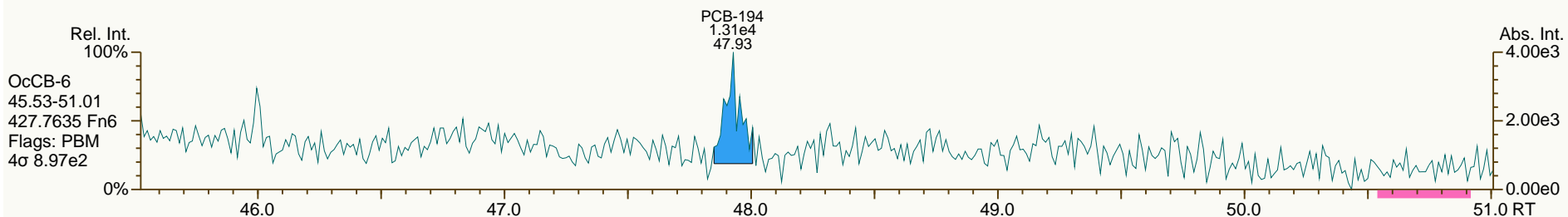
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

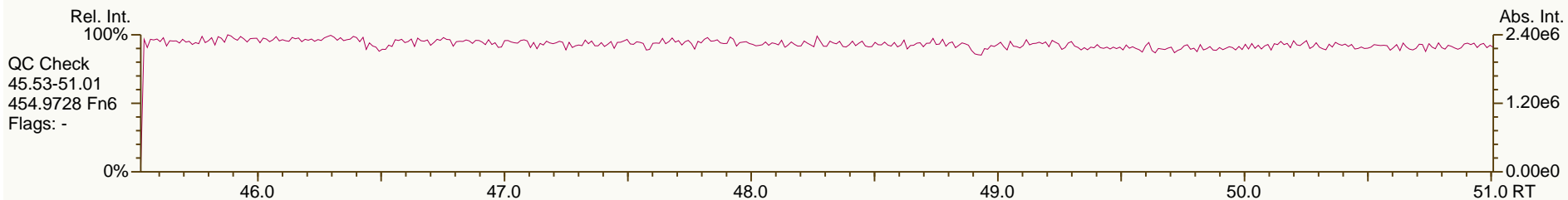
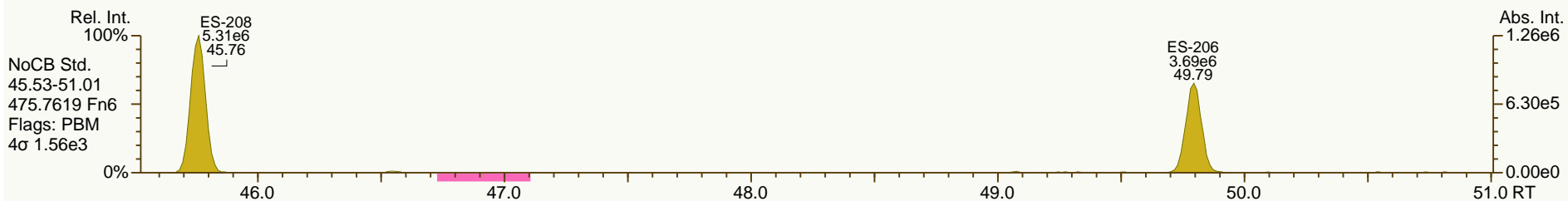
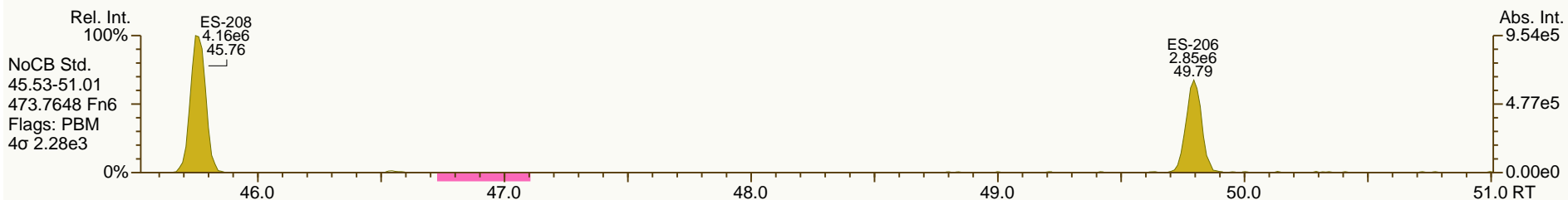
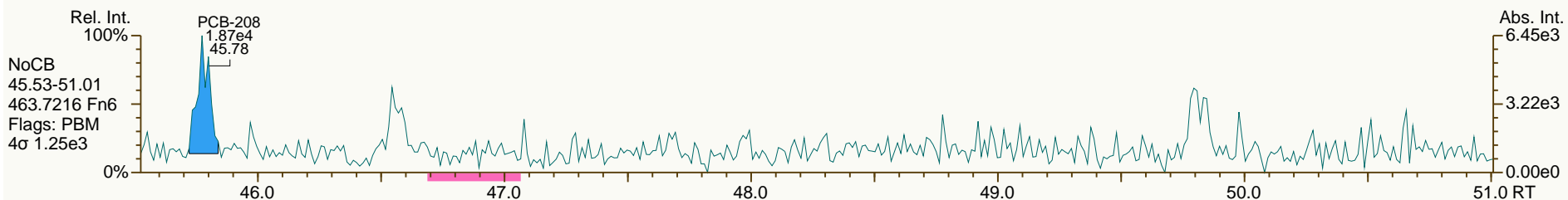
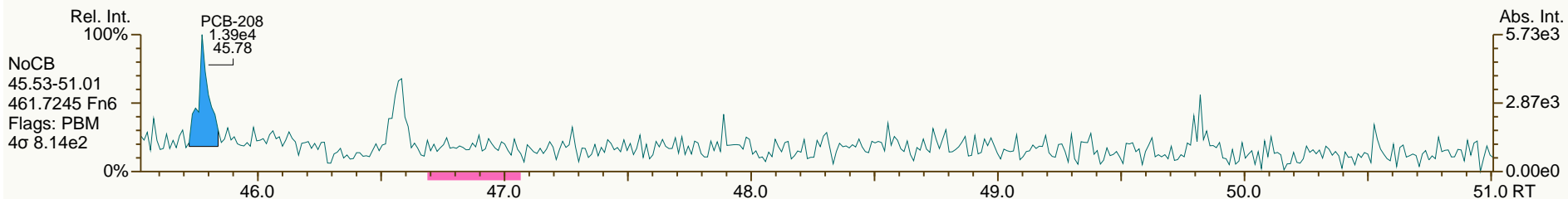
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

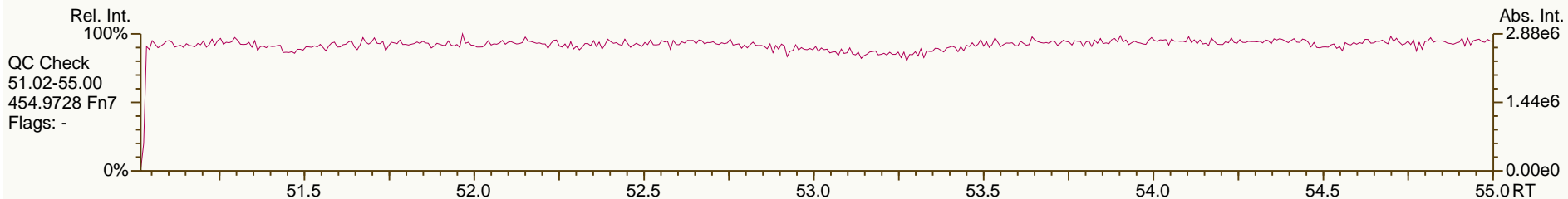
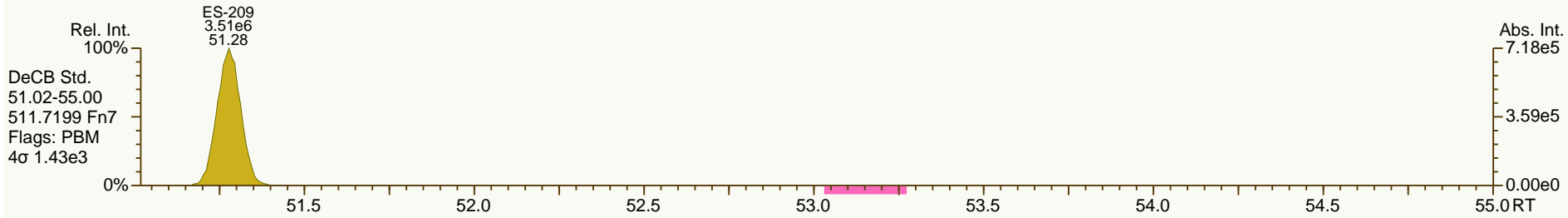
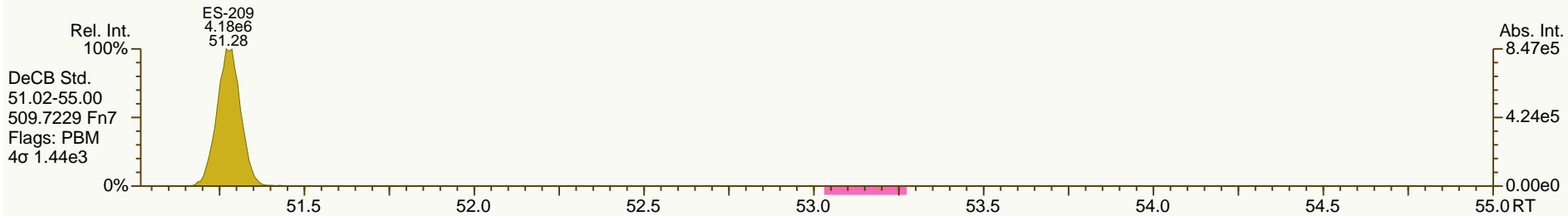
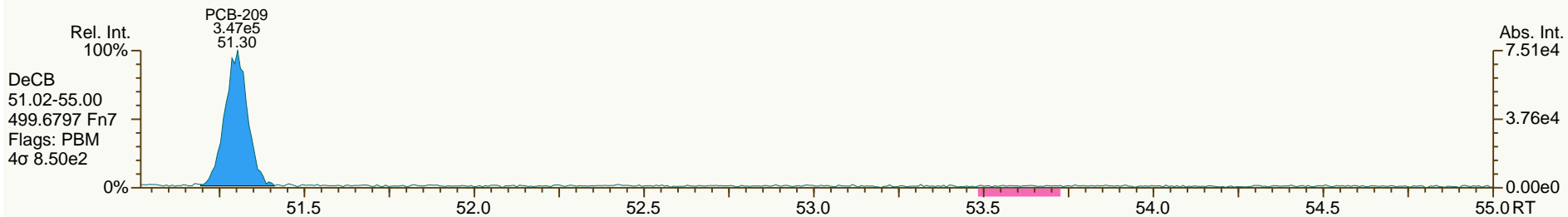
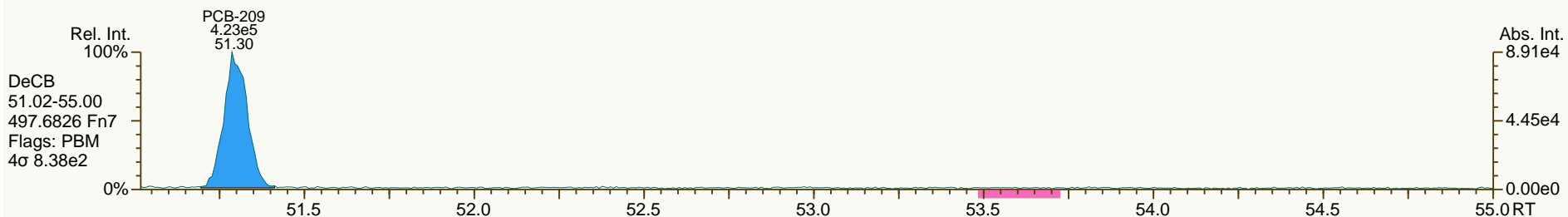
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SGS ID: A6492\_11883\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: PB006.2-1 SWMID-140311-N (Dissolved)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 54

Acq: 24-Mar-2014 20:36:12  
 User: CTW Datafile: 140324S11





Lab ID: A6492\_11883\_PCB\_005-RJ

ACQ: 24-Mar-2014 21:35:17 CTW

Wt/Vol: 0.96 L

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Client ID: HSC14.1-1SWMID-140311-N (Total)

UTP: 02-Apr-2014 13:09 JLJ

J-level: 10.4 pg/L Split: 1

Checkcode: 058-314-YQZ

Datafile: 140324S12

RPT: 02-Apr-2014 13:09 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	33.12	J	1.0006	1.0004	-0.4	3.90E+04	0.75	1.36	3.38	2.75E+03	2.57
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.32	ND	2.75E+03	2.77
PCB-105 233'44'-PeCB	36.13		1.0007	1.0006	-0.2	1.17E+05	0.61	1.03	15.9	2.13E+03	3.05
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.13	ND	2.13E+03	2.74
PCB-118 23'44'5'-PeCB	35.12		1.0007	1.0007	0	3.23E+05	0.60	1.13	42.7	2.13E+03	2.95
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	2.13E+03	2.98
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.33	ND	2.07E+03	2.32
PCB-156/157 ...-HxCB	41.29	J C	1.0005	1.0001	-1.0	3.99E+04	1.27	1.09	5.72	2.14E+03	4.24
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	2.14E+03	2.95
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.10	ND	2.14E+03	3.57
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.21	ND	1.88E+03	2.49
PCB-209 DeCB	51.30		1.0004	1.0005	+0.3	1.92E+05	1.20	1.07	44.1	2.07E+03	5.57
ES PCB-1	12.00		0.7239	0.7237	-0.1	1.49E+07	3.23	1.05	45.9 %	15%	150%
ES PCB-3	14.33		0.8639	0.8638	-0.1	1.55E+07	3.26	0.97	52.1 %	15%	150%
ES PCB-4	14.58		0.8794	0.8793	-0.1	1.08E+07	1.55	0.66	53.2 %	25%	150%
ES PCB-15	20.36		1.2270	1.2276	+0.7	2.10E+07	1.62	1.09	63 %	25%	150%
ES PCB-19	17.71		1.0673	1.0674	+0.1	9.64E+06	1.02	0.55	57.2 %	25%	150%
ES PCB-37	26.74		1.0786	1.0787	+0.2	1.81E+07	1.09	1.44	73.8 %	25%	150%
ES PCB-54	20.65		0.8332	0.8330	-0.2	1.46E+07	0.78	1.42	60.1 %	25%	150%
ES PCB-77	33.11		1.3353	1.3357	+0.8	1.76E+07	0.79	1.26	81.9 %	25%	150%
ES PCB-81	32.63		1.3159	1.3163	+0.8	1.69E+07	0.82	1.27	78.4 %	25%	150%
ES PCB-104	25.66		0.8329	0.8327	-0.3	1.34E+07	1.61	1.56	61.8 %	25%	150%
ES PCB-105	36.11		1.1713	1.1716	+0.6	1.48E+07	1.58	1.23	85.7 %	25%	150%
ES PCB-114	35.56		1.1536	1.1539	+0.6	1.47E+07	1.56	1.20	87.3 %	25%	150%
ES PCB-118	35.09		1.1385	1.1387	+0.4	1.39E+07	1.53	1.13	88.2 %	25%	150%
ES PCB-123	34.81		1.1294	1.1296	+0.4	1.36E+07	1.55	1.16	83.8 %	25%	150%
ES PCB-126	38.73		1.2564	1.2568	+0.9	1.41E+07	1.69	1.22	82.6 %	25%	150%
ES PCB-153	36.68		0.9717	0.9717	0	1.28E+07	1.29	1.10	83.7 %	25%	150%
ES PCB-155	30.65		0.8119	0.8117	-0.4	1.45E+07	1.31	1.60	65 %	25%	150%
ES PCB-156/157	41.29		1.0935	1.0936	+0.2	2.66E+07	1.28	1.14	84.2 %	25%	150%
ES PCB-167	40.30		1.0673	1.0674	+0.2	1.40E+07	1.25	1.17	86.2 %	25%	150%
ES PCB-169	44.02		1.1656	1.1658	+0.5	1.23E+07	1.33	1.11	80.3 %	25%	150%
ES PCB-170	43.53		0.9084	0.9083	-0.3	1.00E+07	1.11	1.18	82.2 %	25%	150%
ES PCB-180	42.45		0.8861	0.8860	-0.3	1.14E+07	1.05	1.44	78.2 %	25%	150%
ES PCB-188	35.55		0.7421	0.7419	-0.4	1.64E+07	1.12	1.52	77.6 %	25%	150%
ES PCB-189	46.15		0.9631	0.9631	0	1.41E+07	1.11	1.80	86.8 %	25%	150%
ES PCB-202	40.11		0.8372	0.8370	-0.5	1.61E+07	0.87	1.39	83.8 %	25%	150%
ES PCB-205	48.32		1.0084	1.0084	0	9.34E+06	0.91	1.26	82.2 %	25%	150%
ES PCB-206	49.79		1.0391	1.0392	+0.3	7.20E+06	0.75	1.00	80.1 %	25%	150%
ES PCB-208	45.76		0.9550	0.9549	-0.3	1.09E+07	0.80	1.38	87.6 %	25%	150%
ES PCB-209	51.28		1.0701	1.0701	0	8.50E+06	1.22	1.26	74.6 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.15		0.9341	0.9340	-0.1	2.40E+07	1.06	1.10	121 %	30%	135%
SS PCB-111	33.12		1.0747	1.0748	+0.2	1.66E+07	1.59	1.03	118 %	30%	135%
SS PCB-178	38.13		1.0099	1.0099	0	1.25E+07	1.07	0.62	123 %	30%	135%
CS PCB-28	23.15		0.9341	0.9340	-0.1	2.40E+07	1.06	1.59	89.1 %	30%	135%
CS PCB-111	33.12		1.0747	1.0748	+0.2	1.66E+07	1.59	1.20	99.1 %	30%	135%
CS PCB-178	38.13		1.0099	1.0099	0	1.25E+07	1.07	0.94	95.5 %	30%	135%
JS PCB-9	16.59					3.07E+07	1.64				
JS PCB-52	24.79					1.70E+07	0.77				
JS PCB-101	30.82					1.40E+07	1.56				
JS PCB-138	37.75					1.39E+07	1.29				
JS PCB-194	47.92					9.03E+06	0.90				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	6.04	6.04	1.92		
						Di-CBs	190	190	6		
						Tri-CBs	590	590	4.02		
						Tetra-CBs	637	645	2.92		
						Penta-CBs	388	392	2.79		
						Hexa-CBs	204	224	3.22		
						Hepta-CBs	34.6	66.1	3.15		
						Octa-CBs	0	5.05	3.62		
						Nona-CBs	0	0	5.6		
PCB-1 2-MoCB	12.02	J	1.0011	1.0012	+0.1	5.24E+04	3.07	1.21	6.04	2.36E+03	1.79
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.28	ND	2.36E+03	2.07
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00		1.30	ND	2.36E+03	2.04
PCB-4 22'-DiCB	14.60		1.0011	1.0011	0	5.02E+05	1.40	0.98	98.6	4.70E+03	7.69
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00		1.59	ND	4.70E+03	4.73
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		1.16	ND	5.07E+03	4.4
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.29	ND	5.07E+03	3.96
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.21	ND	5.07E+03	4.23
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00		1.20	ND	5.07E+03	4.25
PCB-8 24'-DiCB	17.43		1.0506	1.0507	+0.1	2.53E+05	1.70	1.22	20.5	5.07E+03	4.2
PCB-14 35-DiCB	NotFnd		0.9334	-		0.00E+00		1.40	ND	5.07E+03	3.66
PCB-11 33'-DiCB	19.80	B	0.9722	0.9722	0	2.76E+05	1.52	1.17	23.3	5.07E+03	4.38
PCB-13/12 34'/34-DiCB	NotFnd	C	0.9867	-		0.00E+00		1.15	ND	5.07E+03	4.45
PCB-15 44'-DiCB	20.38		1.0008	1.0007	-0.1	5.67E+05	1.39	1.19	47.2	5.07E+03	4.31
PCB-19 22'6-TrCB	17.72		1.0010	1.0010	0	2.31E+05	1.10	1.05	47.5	2.41E+03	4.83
PCB-30/18 246/22'5-TrCB	19.51	C	1.1013	1.1019	+0.7	6.86E+05	1.02	1.34	110	2.41E+03	3.78
PCB-17 22'4-TrCB	19.91		1.1242	1.1244	+0.2	2.97E+05	1.03	1.15	55.9	2.41E+03	4.43
PCB-27 23'6-TrCB	20.11		1.1352	1.1356	+0.5	8.72E+04	1.16	1.55	12.1	2.41E+03	3.27
PCB-24 236-TrCB	NotFnd		1.1429	-		0.00E+00		1.52	ND	2.41E+03	3.33
PCB-16 22'3-TrCB	20.34		1.1485	1.1486	+0.1	2.05E+05	0.93	0.82	54.2	2.41E+03	6.22

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.82		1.1756	1.1759	+0.4	3.75E+05	1.11	1.67	48.6	2.41E+03	3.05
PCB-34 23'5'-TrCB	NotFnd		0.8222	-		0.00E+00		1.44	ND	3.54E+03	2.94
PCB-23 235-TrCB	NotFnd		0.8278	-		0.00E+00		1.44	ND	3.54E+03	2.95
PCB-26/29 23'5'/245-TrCB	22.39	J C	0.8386	0.8374	-1.6	2.04E+05	1.08	1.47	15.9	3.54E+03	2.89
PCB-25 23'4-TrCB	22.62		0.8461	0.8458	-0.4	1.57E+05	0.96	1.45	12.5	3.54E+03	2.92
PCB-31 24'5-TrCB	22.90		0.8565	0.8563	-0.3	1.02E+06	1.09	1.52	76.7	3.54E+03	2.78
PCB-28/20 244'/233'-TrCB	23.17	C	0.8673	0.8667	-0.8	1.19E+06	1.11	1.42	96.2	3.54E+03	2.98
PCB-21/33 234/23'4'-TrCB	23.39	J C	0.8741	0.8747	+0.8	2.26E+05	1.05	1.47	17.6	3.54E+03	2.88
PCB-22 234'-TrCB	23.75		0.8882	0.8882	0	3.22E+05	0.96	1.36	27.1	3.54E+03	3.1
PCB-36 33'5-TrCB	NotFnd		0.9402	-		0.00E+00		1.50	ND	3.54E+03	2.82
PCB-39 34'5-TrCB	NotFnd		0.9523	-		0.00E+00		1.50	ND	3.54E+03	2.83
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.36	ND	3.54E+03	3.13
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.27	ND	3.54E+03	3.33
PCB-37 344'-TrCB	26.76		1.0007	1.0008	+0.2	1.83E+05	0.99	1.32	15.8	3.54E+03	3.2
PCB-54 22'66'-TeCB	20.67	J EMPC	1.0010	1.0011	+0.1	2.24E+04	1.03	1.02	3.15	1.92E+03	2.76
PCB-50/53 22'46/22'56'-TeCB	22.65	J C	0.9147	0.9138	-1.2	1.49E+05	0.73	0.94	19.5	2.24E+03	3.16
PCB-45 22'36-TeCB	23.26		0.9385	0.9383	-0.3	8.41E+04	0.80	0.82	12.7	2.24E+03	3.63
PCB-51 22'46'-TeCB	23.34		0.9415	0.9415	0	1.64E+05	0.77	0.93	21.7	2.24E+03	3.18
PCB-46 22'36'-TeCB	23.55	J	0.9501	0.9501	0	3.90E+04	0.69	0.77	6.24	2.24E+03	3.85
PCB-52 22'55'-TeCB	24.81		1.0009	1.0009	0	8.10E+05	0.75	0.88	113	2.24E+03	3.35
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	2.24E+03	2.41
PCB-43 22'35-TeCB	NotFnd		1.0101	-		0.00E+00		0.72	ND	2.24E+03	4.14
PCB-69/49 23'46/22'45'-TeCB	25.26	C	1.0180	1.0189	+1.4	5.27E+05	0.82	1.08	60	2.24E+03	2.74
PCB-48 22'45-TeCB	25.52		1.0294	1.0295	+0.2	9.23E+04	0.80	0.89	12.7	2.24E+03	3.31
PCB-44/47/65 ...-TeCB	25.72	C	1.0382	1.0376	-0.9	8.15E+05	0.82	0.96	104	2.24E+03	3.08
PCB-59/62/75 ...-TeCB	26.00	J C	1.0494	1.0490	-0.6	6.98E+04	0.75	1.23	6.96	2.24E+03	2.4
PCB-42 22'34'-TeCB	26.18		1.0562	1.0563	+0.2	1.53E+05	0.75	0.80	23.5	2.24E+03	3.68
PCB-41 22'34-TeCB	NotFnd		1.0697	-		0.00E+00		0.73	ND	2.24E+03	4.06
PCB-71/40 23'4'6/22'33'-TeCB	26.62	C	1.0736	1.0738	+0.3	2.87E+05	0.80	0.92	38.5	2.24E+03	3.23
PCB-64 234'6-TeCB	26.81		1.0816	1.0817	+0.2	3.34E+05	0.78	1.31	31.5	2.24E+03	2.27
PCB-72 23'55'-TeCB	NotFnd		0.8441	-		0.00E+00		1.45	ND	2.75E+03	2.52
PCB-68 23'45'-TeCB	27.79		0.8519	0.8518	-0.2	2.63E+05	0.77	1.56	20.7	2.75E+03	2.33
PCB-57 233'5-TeCB	NotFnd		0.8634	-		0.00E+00		1.41	ND	2.75E+03	2.58
PCB-58 233'5'-TeCB	NotFnd		0.8697	-		0.00E+00		1.44	ND	2.75E+03	2.53
PCB-67 23'45-TeCB	NotFnd		0.8745	-		0.00E+00		1.49	ND	2.75E+03	2.44
PCB-63 234'5-TeCB	NotFnd		0.8815	-		0.00E+00		1.58	ND	2.75E+03	2.31
PCB-61/70/74/76 ...-TeCB	29.06	C	0.8904	0.8906	+0.3	1.03E+06	0.78	1.45	87.1	2.75E+03	2.51
PCB-66 23'44'-TeCB	29.34		0.8991	0.8991	0	5.77E+05	0.80	1.39	51	2.75E+03	2.61
PCB-55 233'4-TeCB	NotFnd		0.9037	-		0.00E+00		1.35	ND	2.75E+03	2.69
PCB-56 233'4'-TeCB	29.93		0.9172	0.9172	0	2.61E+05	0.71	1.34	24.1	2.75E+03	2.72
PCB-60 2344'-TeCB	30.12	J EMPC	0.9231	0.9231	0	5.43E+04	0.62	1.36	4.9	2.75E+03	2.67
PCB-80 33'55'-TeCB	NotFnd		0.9331	-		0.00E+00		1.60	ND	2.75E+03	2.28
PCB-79 33'45'-TeCB	NotFnd		0.9739	-		0.00E+00		1.59	ND	2.75E+03	2.29
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.30	ND	2.75E+03	2.8
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.02	ND	1.70E+03	2.72
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		0.90	ND	1.70E+03	3.09
PCB-103 22'45'6-PeCB	NotFnd		0.8992	-		0.00E+00		0.94	ND	2.13E+03	3.55
PCB-94 22'356'-PeCB	NotFnd		0.9054	-		0.00E+00		0.81	ND	2.13E+03	4.1

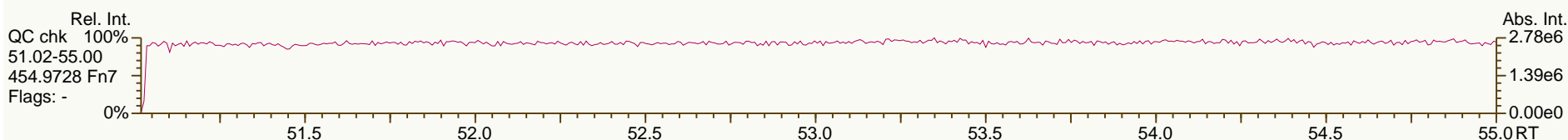
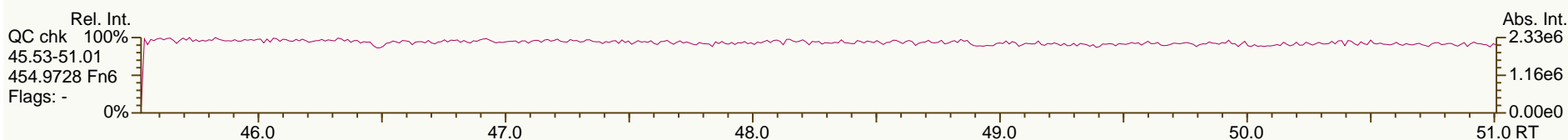
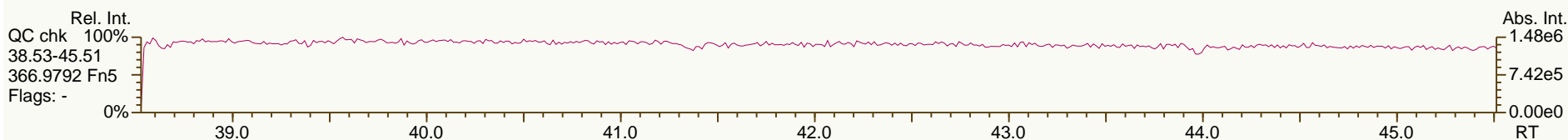
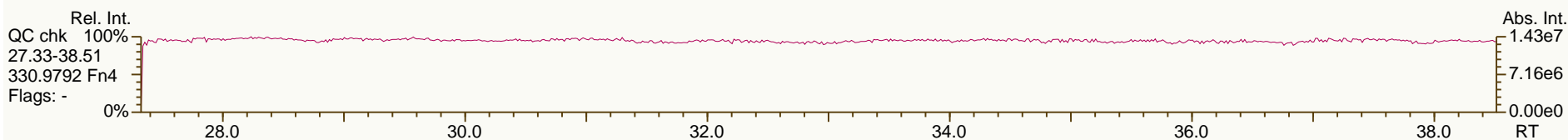
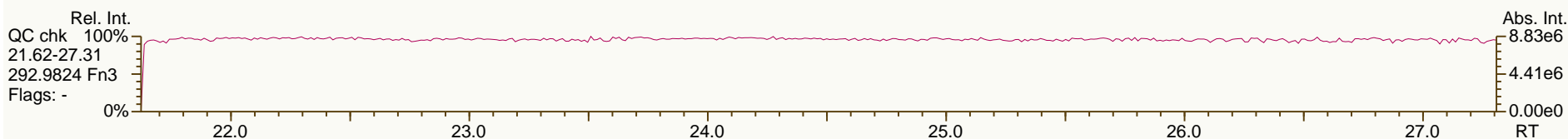
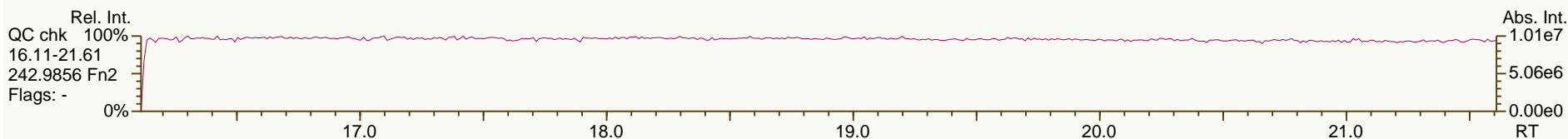
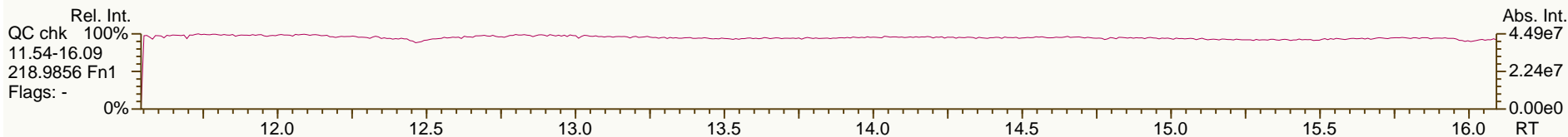
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.28		0.9179	0.9178	-0.2	3.16E+05	0.64	0.87	55.5	2.13E+03	3.82
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9247	-		0.00E+00		0.86	ND	2.13E+03	3.85
PCB-102 22'456'-PeCB	NotFnd		0.9283	-		0.00E+00		0.96	ND	2.13E+03	3.47
PCB-98 22'34'6'-PeCB	NotFnd		0.9307	-		0.00E+00		0.83	ND	2.13E+03	4.02
PCB-88 22'346-PeCB	NotFnd		0.9405	-		0.00E+00		0.84	ND	2.13E+03	3.95
PCB-91 22'34'6-PeCB	29.05		0.9426	0.9425	-0.2	7.81E+04	0.61	0.92	13	2.13E+03	3.62
PCB-84 22'33'6-PeCB	29.25		0.9490	0.9490	0	1.00E+05	0.53	0.74	20.8	2.13E+03	4.5
PCB-89 22'346'-PeCB	NotFnd		0.9626	-		0.00E+00		0.78	ND	2.13E+03	4.24
PCB-121 23'45'6-PeCB	NotFnd		0.9737	-		0.00E+00		1.19	ND	2.13E+03	2.79
PCB-92 22'355'-PeCB	30.33		0.9841	0.9841	0	7.54E+04	0.65	0.82	14.1	2.13E+03	4.06
PCB-113/90/101 ...-PeCB	30.84	C	0.9999	1.0007	+1.5	3.95E+05	0.65	0.96	62.7	2.13E+03	3.44
PCB-83 22'33'5-PeCB	NotFnd		1.0141	-		0.00E+00		0.68	ND	2.13E+03	4.9
PCB-99 22'44'5-PeCB	31.35		1.0172	1.0171	-0.2	2.06E+05	0.68	0.97	32.6	2.13E+03	3.43
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.14	ND	2.13E+03	2.92
PCB-108/119/86/97/125...-PeCB	31.82	J C	1.0319	1.0327	+1.5	2.50E+05	0.66	0.98	38.9	2.13E+03	3.37
PCB-117 234'56-PeCB	NotFnd		1.0492	-		0.00E+00		1.07	ND	2.13E+03	3.1
PCB-116/85 23456/22'344'-PeCB	32.41	J C	1.0522	1.0516	-1.2	6.86E+04	0.61	0.99	10.5	2.13E+03	3.34
PCB-110 233'4'6-PeCB	32.55		1.0560	1.0562	+0.4	4.94E+05	0.69	1.05	71.9	2.13E+03	3.17
PCB-115 2344'6-PeCB	NotFnd		1.0588	-		0.00E+00		1.18	ND	2.13E+03	2.82
PCB-82 22'33'4-PeCB	32.83	J	1.0653	1.0652	-0.2	4.35E+04	0.71	0.71	9.41	2.13E+03	4.7
PCB-111 233'55'-PeCB	NotFnd		1.0754	-		0.00E+00		1.20	ND	2.13E+03	2.78
PCB-120 23'455'-PeCB	NotFnd		1.0884	-		0.00E+00		1.19	ND	2.13E+03	2.79
PCB-107/124 ...-PeCB	NotFnd	C	0.9916	-		0.00E+00		1.09	ND	2.13E+03	3.03
PCB-109 233'46-PeCB	34.73	J EMPC	0.9975	0.9978	+0.6	3.00E+04	0.79	1.14	4.03	2.13E+03	2.92
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.06	ND	2.13E+03	3.13
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		0.99	ND	2.13E+03	3.13
PCB-127 33'455'-PeCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	2.13E+03	2.98
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.65E+03	2.12
PCB-152 22'3566'-HxCB	NotFnd		1.0061	-		0.00E+00		1.02	ND	1.65E+03	2.29
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.02	ND	1.65E+03	2.29
PCB-136 22'33'66'-HxCB	31.29		1.0208	1.0209	+0.2	6.89E+04	1.26	0.95	10.4	1.65E+03	2.46
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		0.98	ND	1.65E+03	2.39
PCB-148 22'34'56'-HxCB	NotFnd		1.0713	-		0.00E+00		1.05	ND	1.65E+03	2.63
PCB-151/135 ...-HxCB	33.35	J C	1.0884	1.0883	-0.2	1.16E+05	1.17	1.02	18.5	1.65E+03	2.7
PCB-154 22'44'56'-HxCB	NotFnd		1.0952	-		0.00E+00		1.17	ND	1.65E+03	2.36
PCB-144 22'345'6-HxCB	NotFnd		1.1038	-		0.00E+00		1.05	ND	1.65E+03	2.63
PCB-147/149 ...-HxCB	34.13	C	1.1137	1.1138	+0.2	2.96E+05	1.30	1.05	45.7	1.65E+03	2.63
PCB-134 22'33'56-HxCB	NotFnd		1.1196	-		0.00E+00		0.89	ND	1.65E+03	3.1
PCB-143 22'3456'-HxCB	NotFnd		1.1222	-		0.00E+00		0.96	ND	1.65E+03	2.88
PCB-139/140 ...-HxCB	NotFnd	C	1.1308	-		0.00E+00		1.06	ND	1.65E+03	2.59
PCB-131 22'33'46-HxCB	NotFnd		1.1365	-		0.00E+00		0.92	ND	1.65E+03	3.01
PCB-142 22'3456-HxCB	NotFnd		1.1412	-		0.00E+00		0.92	ND	1.65E+03	2.99
PCB-132 22'33'46'-HxCB	35.22	EMPC	1.1489	1.1493	+0.8	8.08E+04	1.55	0.93	14	1.65E+03	2.95
PCB-133 22'33'55'-HxCB	NotFnd		1.1621	-		0.00E+00		0.97	ND	1.65E+03	2.83
PCB-165 233'55'6-HxCB	NotFnd		0.9526	-		0.00E+00		1.22	ND	1.65E+03	2.25
PCB-146 22'34'55'-HxCB	36.18	J	0.9583	0.9583	0	5.41E+04	1.24	1.07	8.22	1.65E+03	2.58
PCB-161 233'45'6-HxCB	NotFnd		0.9615	-		0.00E+00		1.32	ND	1.65E+03	2.09
PCB-153/168 ...-HxCB	36.71	C	0.9729	0.9722	-1.5	3.28E+05	1.22	1.26	42.4	1.65E+03	2.2

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.88	J	0.9767	0.9768	+0.2	5.24E+04	1.26	1.00	8.49	1.65E+03	2.75
PCB-130 22'33'45'-HxCB	37.22	J	0.9859	0.9858	-0.2	1.88E+04	1.13	0.88	3.49	1.65E+03	3.15
PCB-137 22'344'5-HxCB	NotFnd		0.9911	-		0.00E+00		1.00	ND	1.65E+03	2.76
PCB-164 233'4'5'6-HxCB	37.50	J EMPC	0.9933	0.9932	-0.2	2.66E+04	0.92	1.36	3.17	1.65E+03	2.03
PCB-163/138/129 ...-HxCB	37.78	C	1.0011	1.0006	-1.1	3.37E+05	1.35	1.06	51.5	1.65E+03	2.59
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.24	ND	1.65E+03	2.23
PCB-158 233'44'6-HxCB	38.11	J EMPC	1.0096	1.0095	-0.2	2.53E+04	1.55	1.36	3.03	1.65E+03	2.03
PCB-128/166 ...-HxCB	38.87	J C	0.9642	0.9645	+0.7	6.06E+04	1.10	0.95	9.46	2.14E+03	3.57
PCB-159 233'455'-HxCB	NotFnd		0.9845	-		0.00E+00		1.12	ND	2.14E+03	3.04
PCB-162 233'4'55'-HxCB	NotFnd		0.9904	-		0.00E+00		1.12	ND	2.14E+03	3.03
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.10	ND	1.62E+03	1.91
PCB-179 22'33'566'-HpCB	35.86	J EMPC	1.0087	1.0087	0	3.47E+04	0.72	1.03	4.26	1.62E+03	2.03
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		0.99	ND	1.62E+03	2.11
PCB-176 22'33'466'-HpCB	NotFnd		1.0299	-		0.00E+00		1.12	ND	1.62E+03	1.88
PCB-186 22'34566'-HpCB	NotFnd		1.0412	-		0.00E+00		1.04	ND	1.62E+03	2.02
PCB-178 22'33'55'6-HpCB	NotFnd		1.0730	-		0.00E+00		0.77	ND	1.62E+03	2.74
PCB-175 22'33'45'6-HpCB	NotFnd		1.0884	-		0.00E+00		1.04	ND	2.13E+03	3.85
PCB-187 22'34'55'6-HpCB	38.92		1.0948	1.0949	+0.2	8.31E+04	1.11	1.10	13.8	2.13E+03	3.65
PCB-182 22'344'56'-HpCB	NotFnd		1.0999	-		0.00E+00		1.13	ND	2.13E+03	3.57
PCB-183 22'344'5'6-HpCB	39.45	J EMPC	1.1096	1.1096	0	2.66E+04	0.80	1.14	4.27	2.13E+03	3.52
PCB-185 22'3455'6-HpCB	NotFnd		1.1121	-		0.00E+00		1.08	ND	2.13E+03	3.72
PCB-174 22'33'456'-HpCB	39.65	EMPC	1.1152	1.1153	+0.2	5.32E+04	0.83	0.92	10.6	2.13E+03	4.36
PCB-177 22'33'45'6'-HpCB	40.03	J EMPC	1.1257	1.1260	+0.7	2.50E+04	0.86	0.93	4.95	2.13E+03	4.35
PCB-181 22'344'56-HpCB	NotFnd		1.1355	-		0.00E+00		1.05	ND	2.13E+03	3.85
PCB-171/173 ...-HpCB	NotFnd	C	1.1407	-		0.00E+00		0.93	ND	2.13E+03	4.32
PCB-172 22'33'455'-HpCB	NotFnd		0.9083	-		0.00E+00		0.93	ND	2.13E+03	4.33
PCB-192 233'455'6-HpCB	NotFnd		0.9137	-		0.00E+00		1.20	ND	2.13E+03	3.36
PCB-180/193 ...-HpCB	42.47	C	0.9197	0.9203	+1.5	1.28E+05	1.02	1.13	20.8	2.13E+03	3.57
PCB-191 233'44'5'6-HpCB	NotFnd		0.9269	-		0.00E+00		1.23	ND	2.13E+03	3.28
PCB-170 22'33'44'5-HpCB	43.55	J EMPC	0.9437	0.9437	0	3.77E+04	1.26	1.06	7.4	2.13E+03	4.13
PCB-190 233'44'56-HpCB	NotFnd		0.9535	-		0.00E+00		1.42	ND	2.13E+03	3.08
PCB-202 22'33'55'66'-OoCB	NotFnd		1.0005	-		0.00E+00		0.83	ND	1.74E+03	2.74
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0202	-		0.00E+00		0.90	ND	1.74E+03	2.53
PCB-204 22'344'566'-OoCB	NotFnd		1.0346	-		0.00E+00		0.84	ND	1.74E+03	2.71
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0394	-		0.00E+00		0.94	ND	1.74E+03	2.42
PCB-200 22'33'4566'-OoCB	NotFnd		1.0417	-		0.00E+00		0.83	ND	1.74E+03	2.74
PCB-198/199 ...-OoCB	44.13	J EMPC C	1.0997	1.1002	+1.3	2.33E+04	0.68	0.59	5.05	1.74E+03	3.82
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1141	-		0.00E+00		0.61	ND	1.74E+03	3.72
PCB-203 22'344'55'6-OoCB	NotFnd		1.1184	-		0.00E+00		0.62	ND	1.74E+03	3.63
PCB-195 22'33'44'56-OoCB	NotFnd		0.9518	-		0.00E+00		0.93	ND	2.05E+03	5.38
PCB-194 22'33'44'55'-OoCB	NotFnd		0.9921	-		0.00E+00		0.95	ND	2.05E+03	5.25
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.05E+03	4.49
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.01	ND	2.22E+03	4.37
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0177	-		0.00E+00		1.05	ND	2.22E+03	4.21
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.01	ND	2.22E+03	6.84

SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

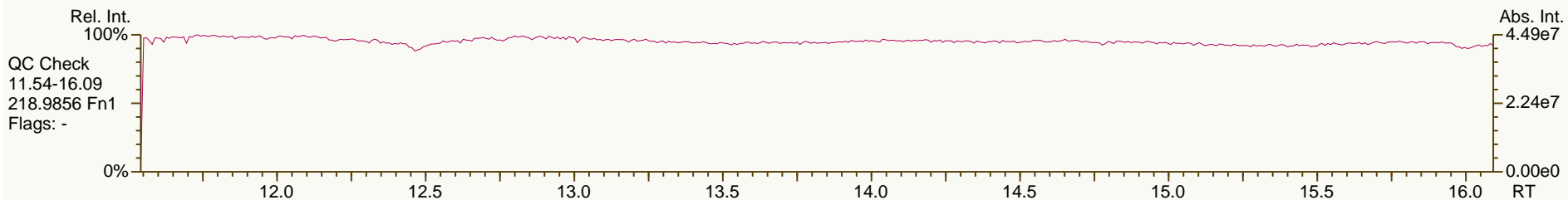
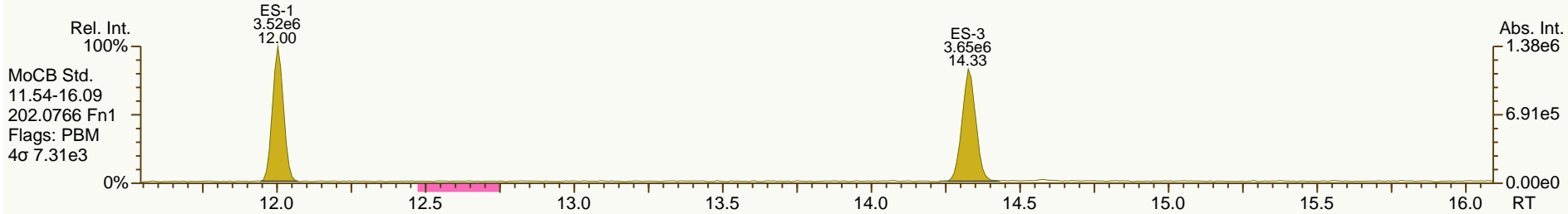
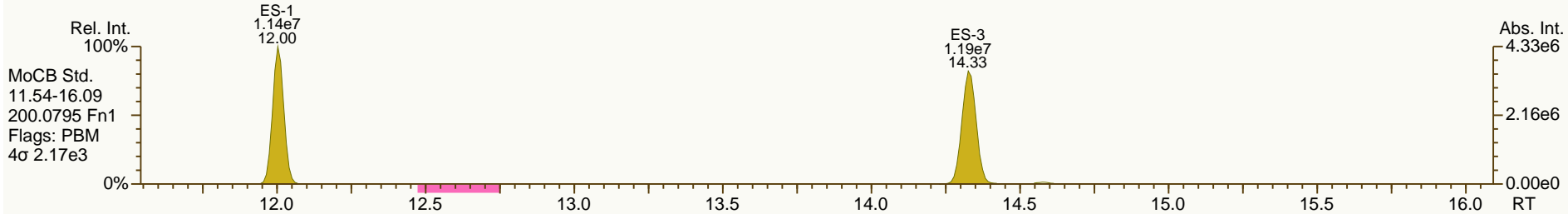
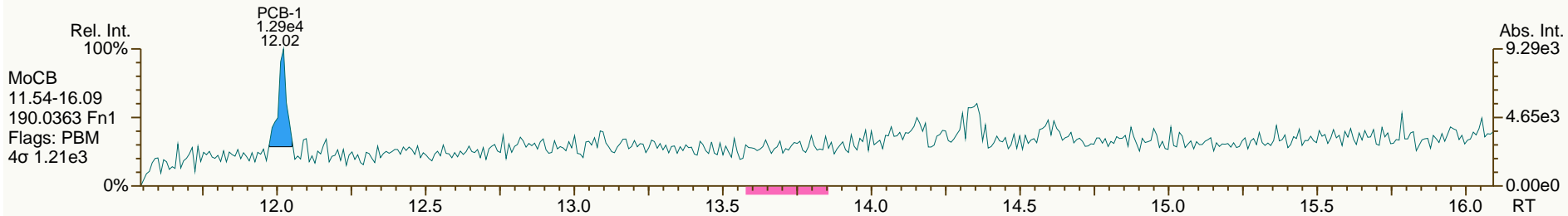
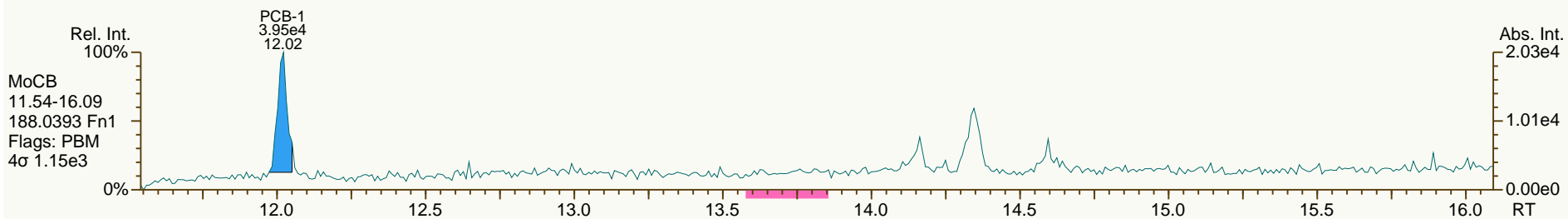
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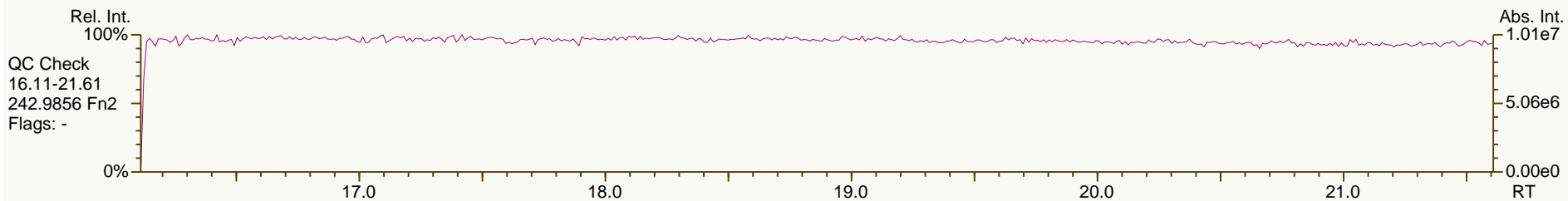
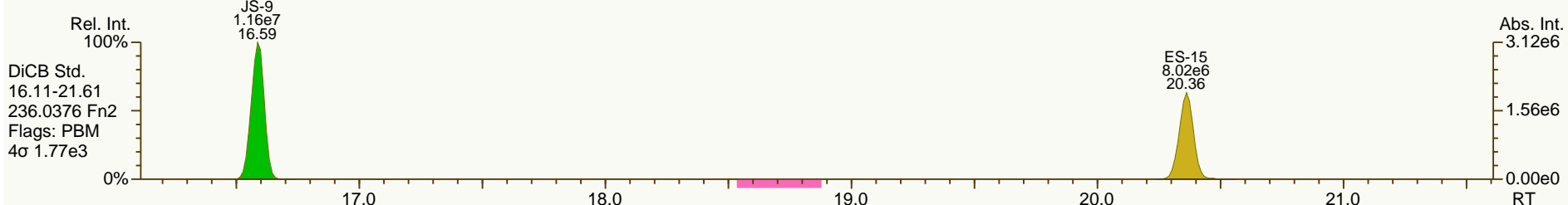
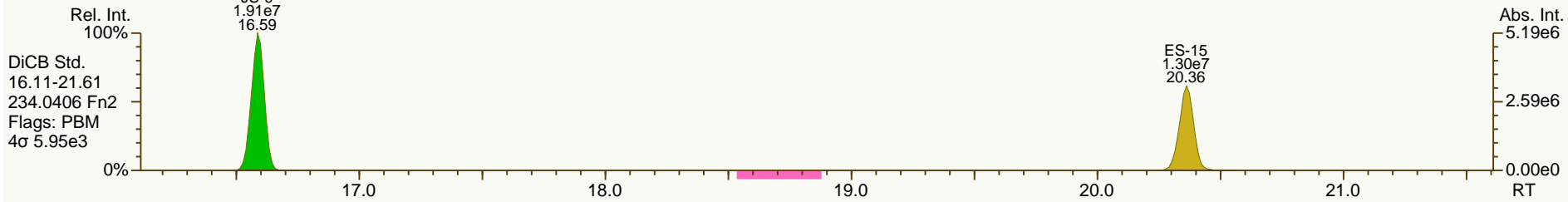
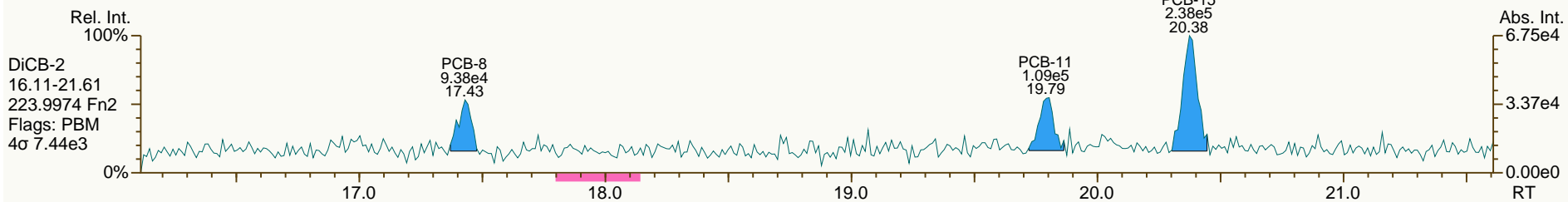
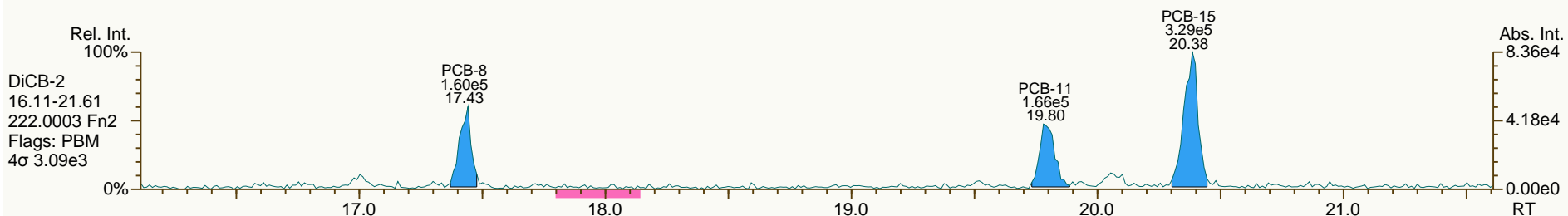




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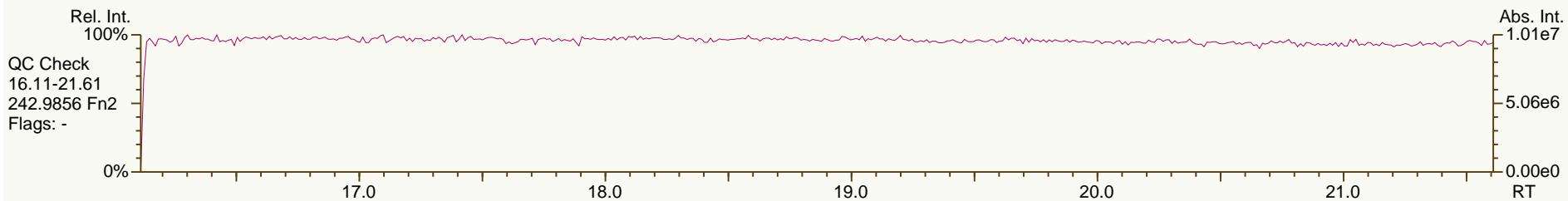
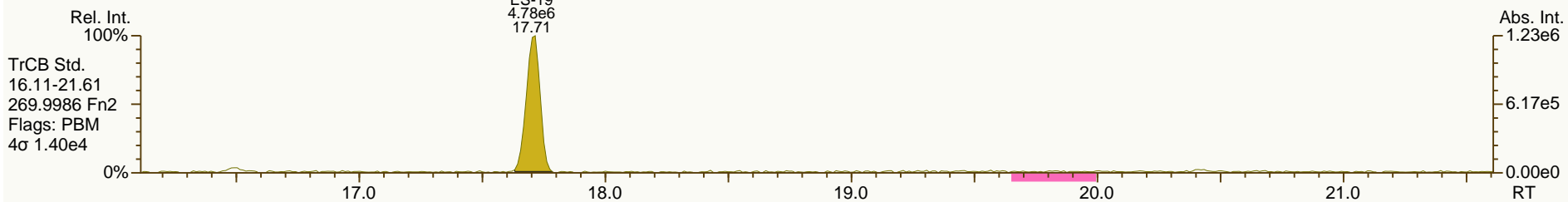
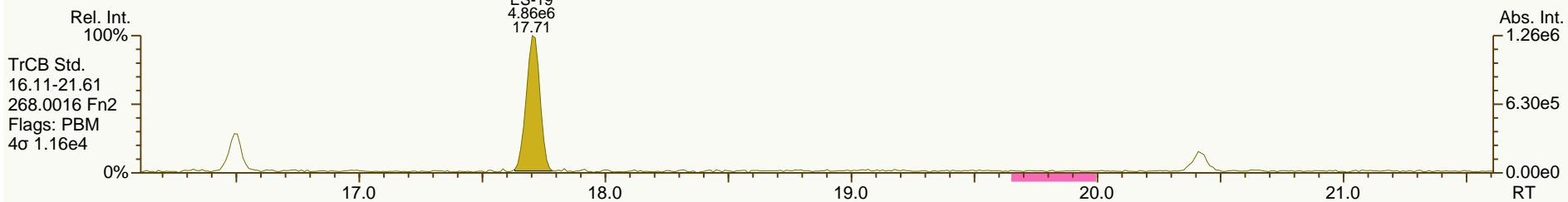
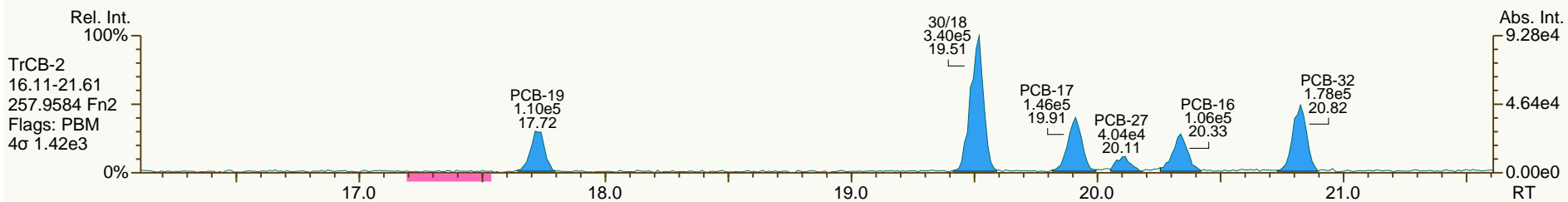
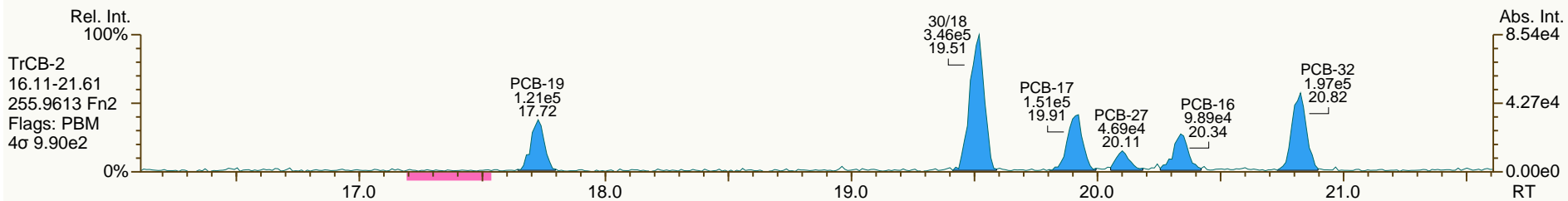
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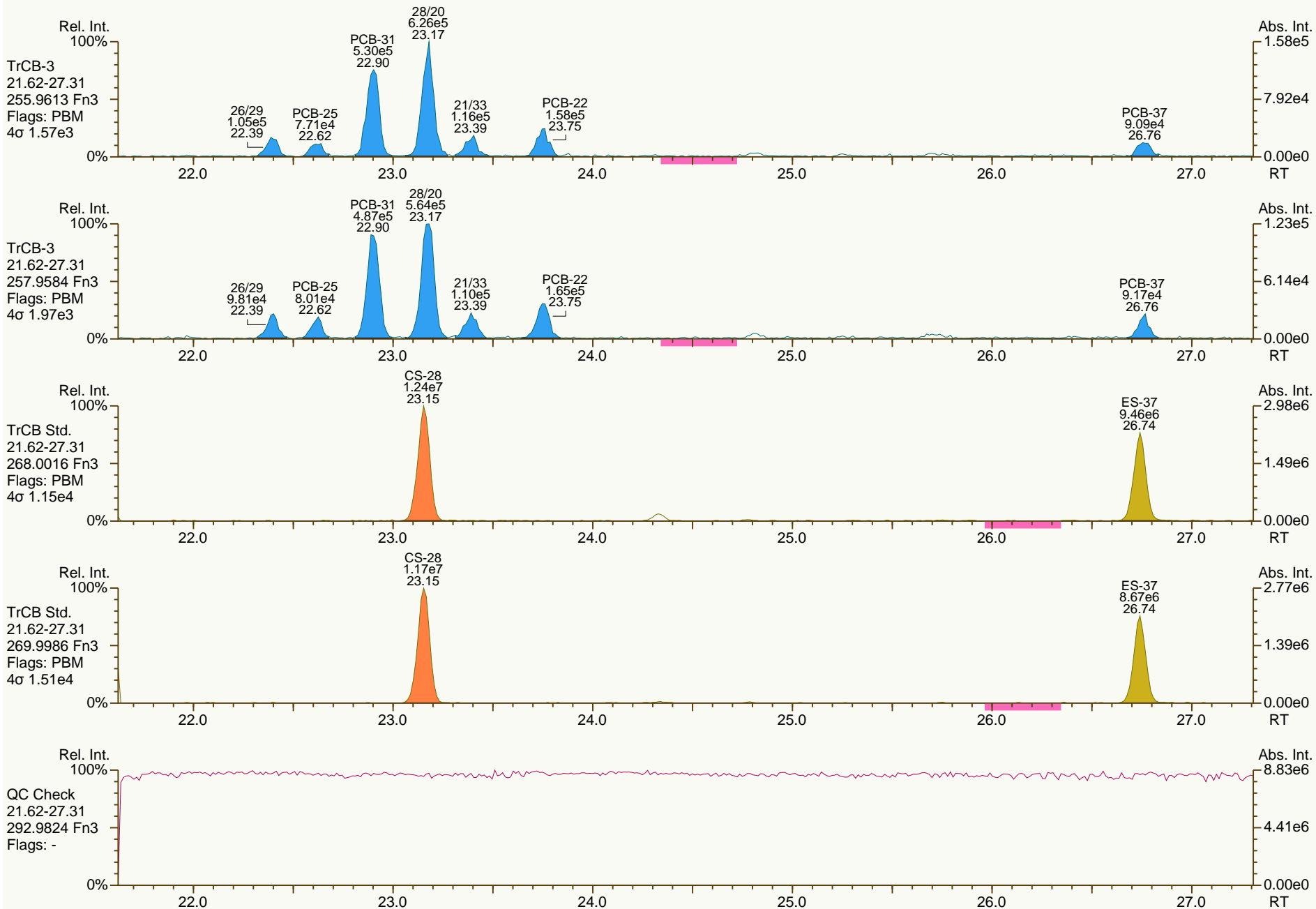
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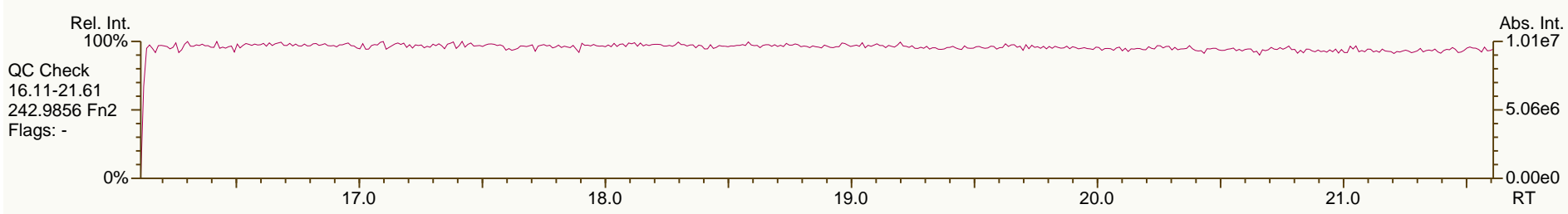
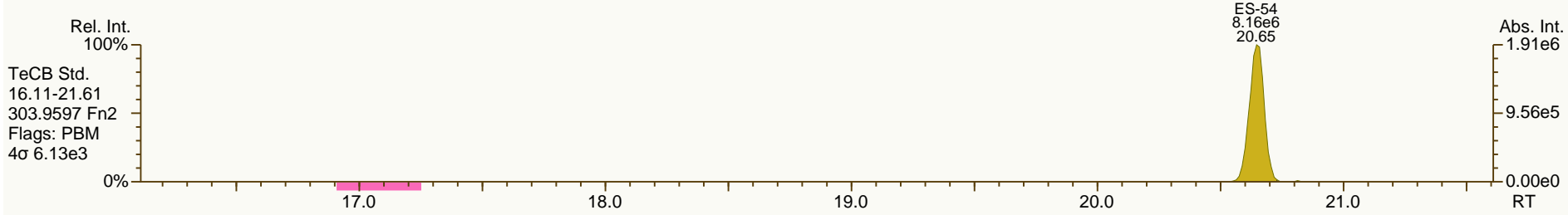
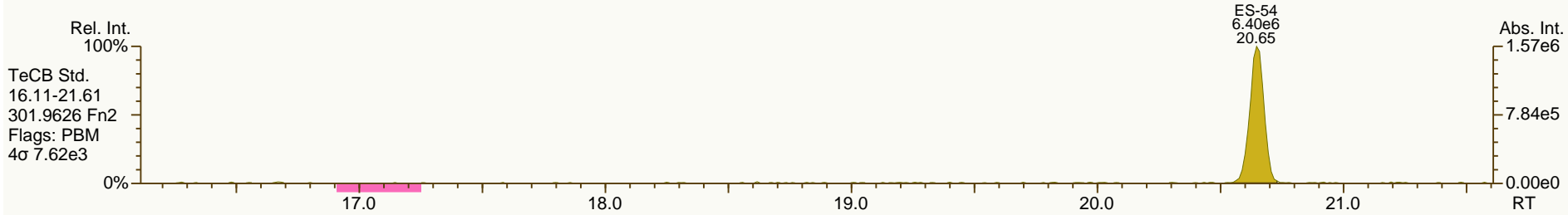
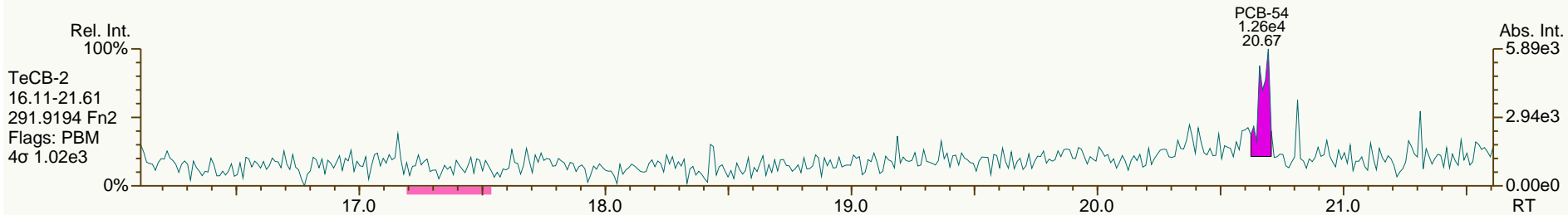
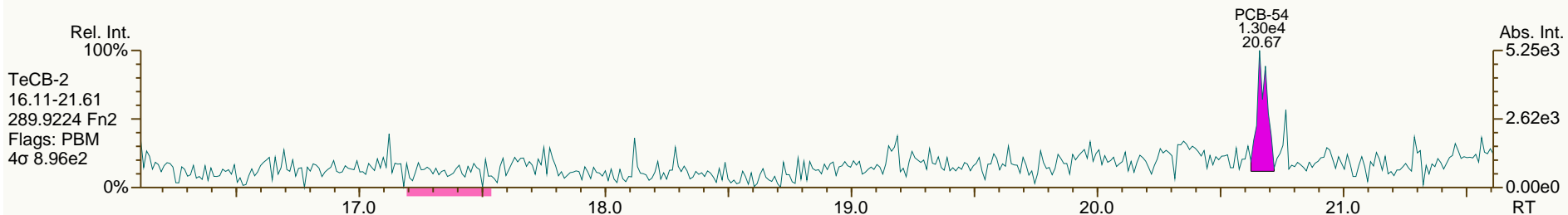
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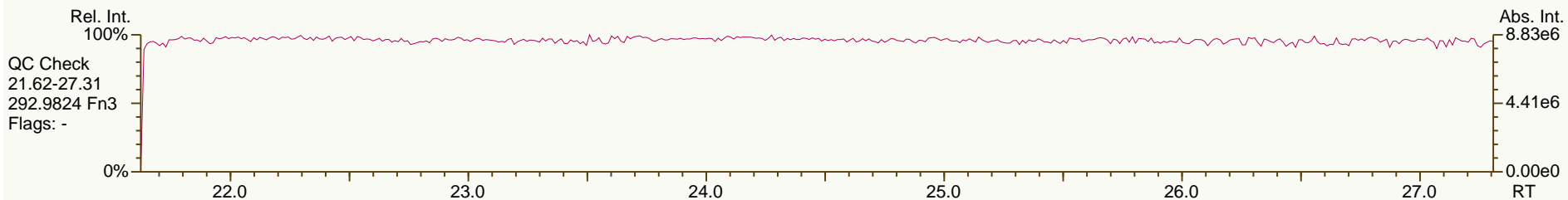
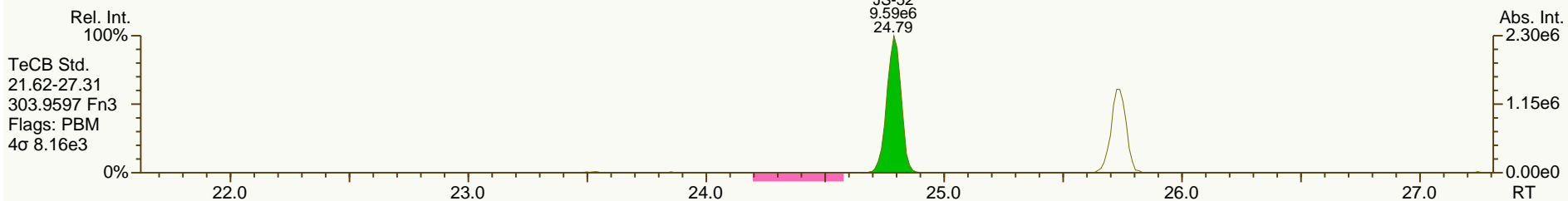
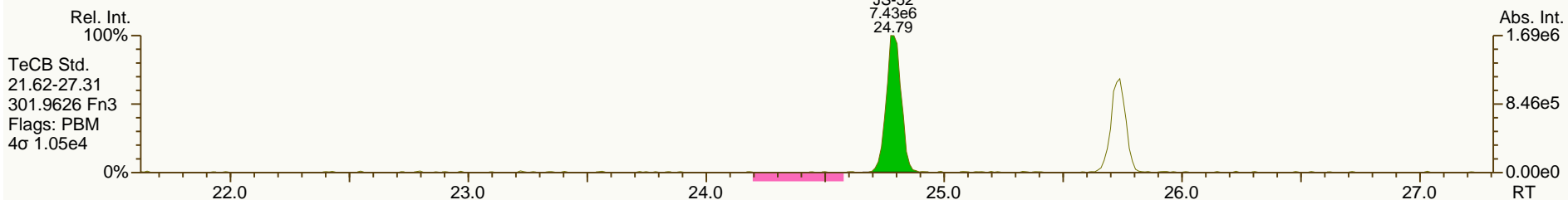
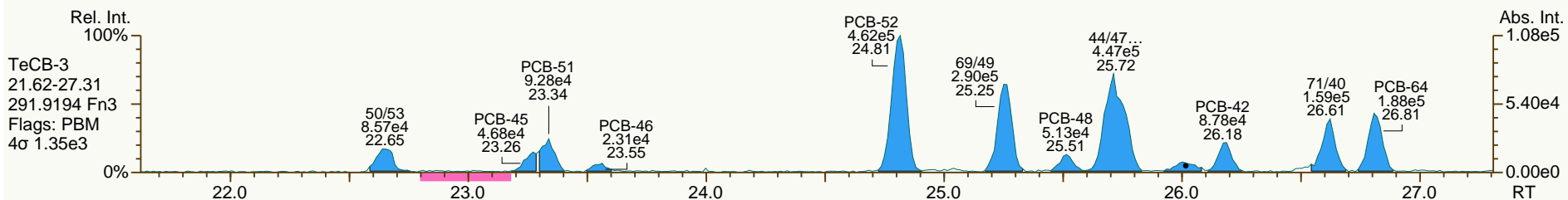
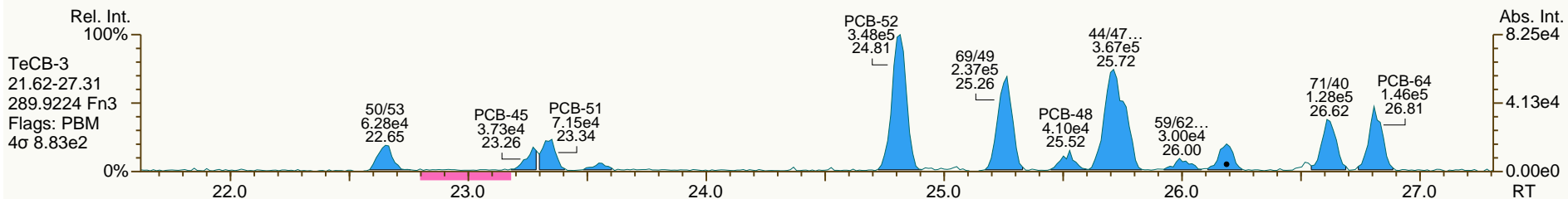
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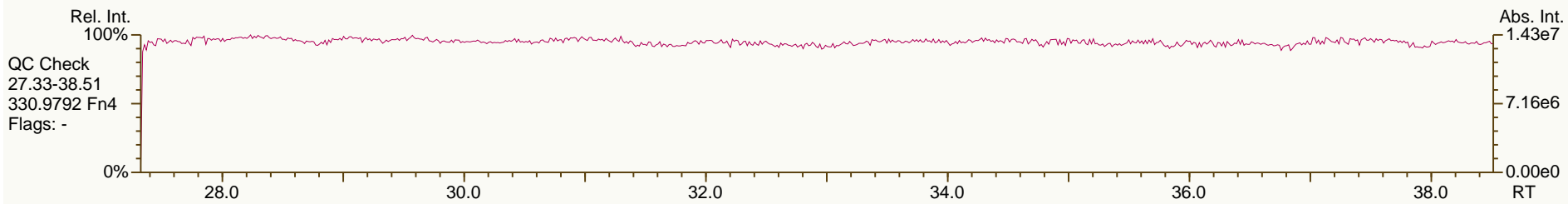
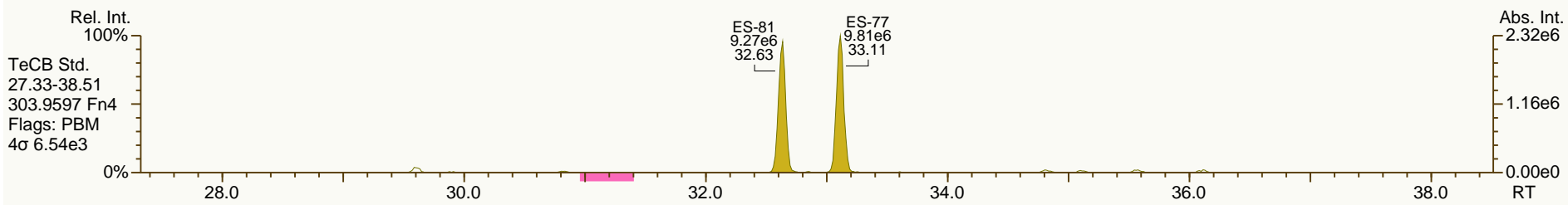
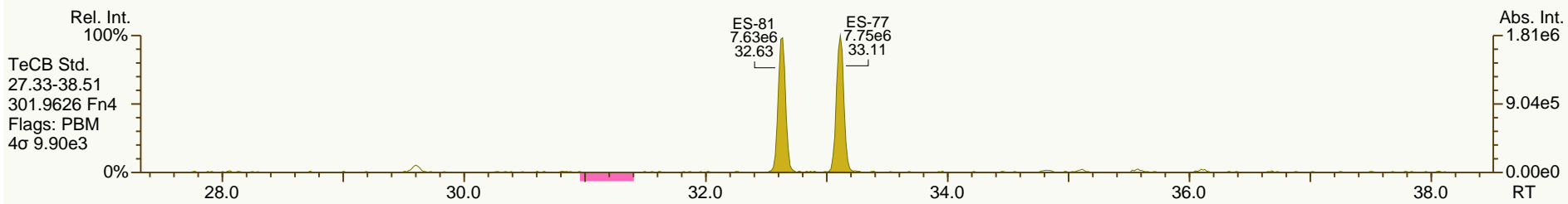
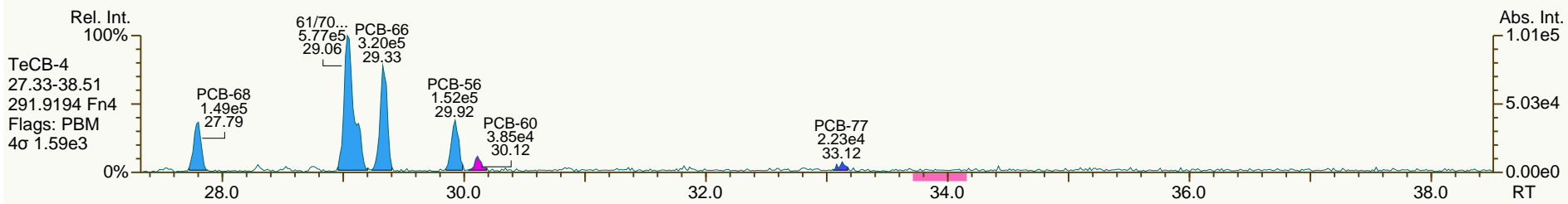
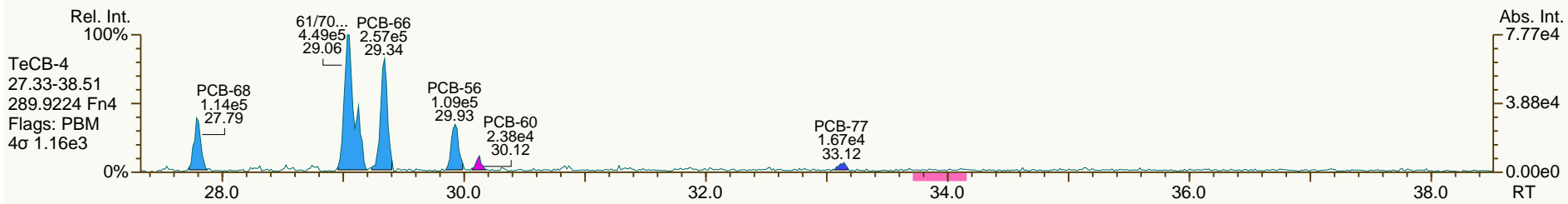
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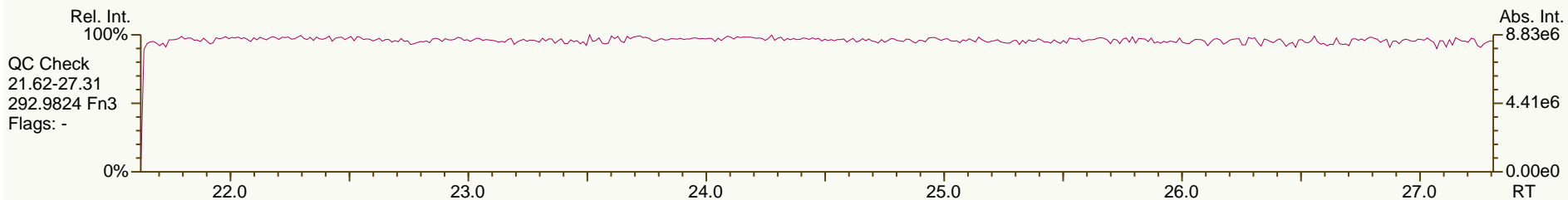
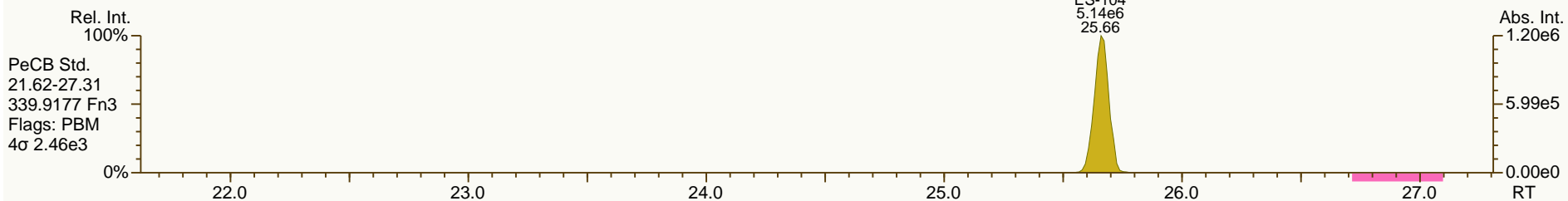
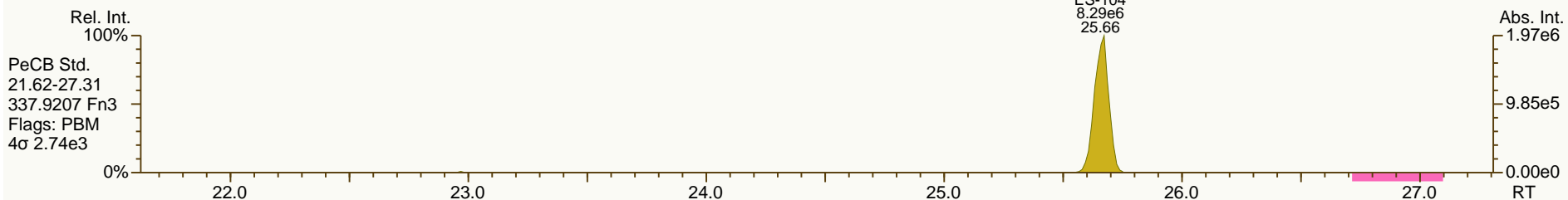
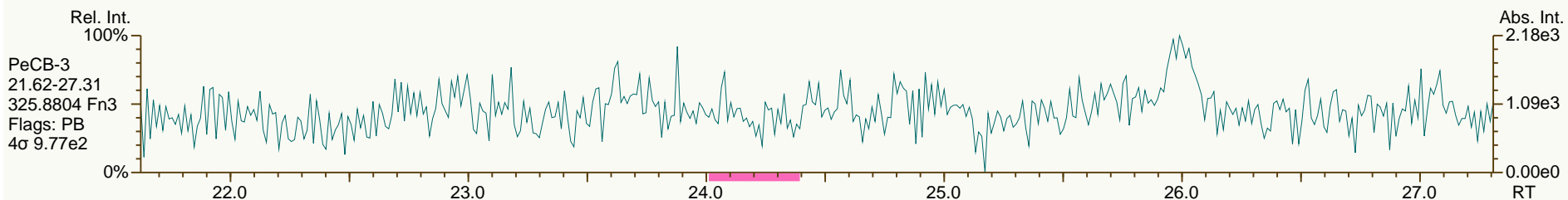
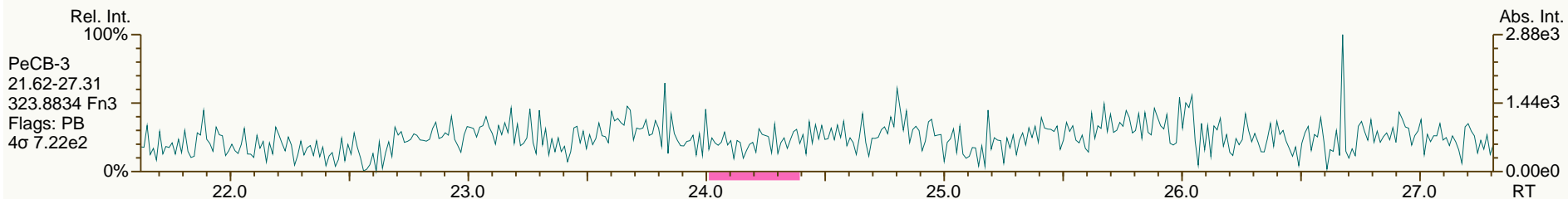
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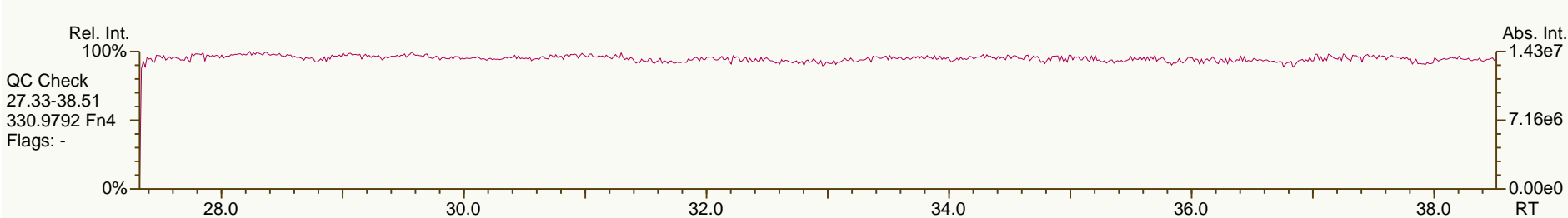
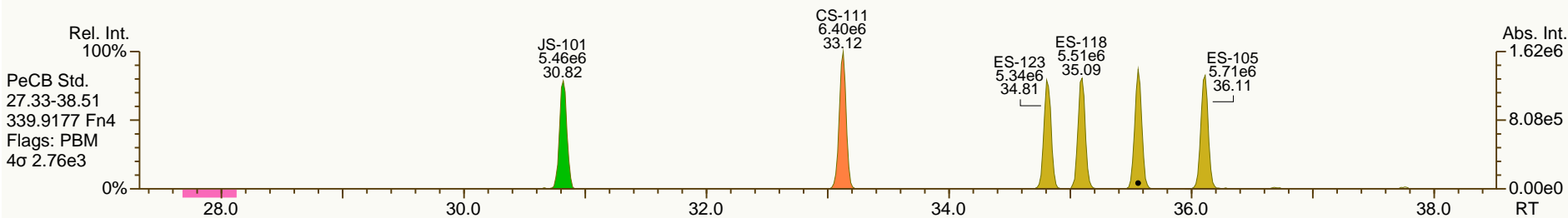
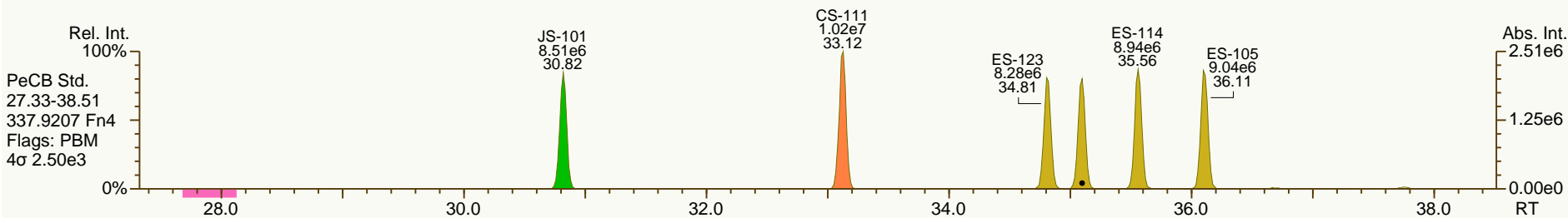
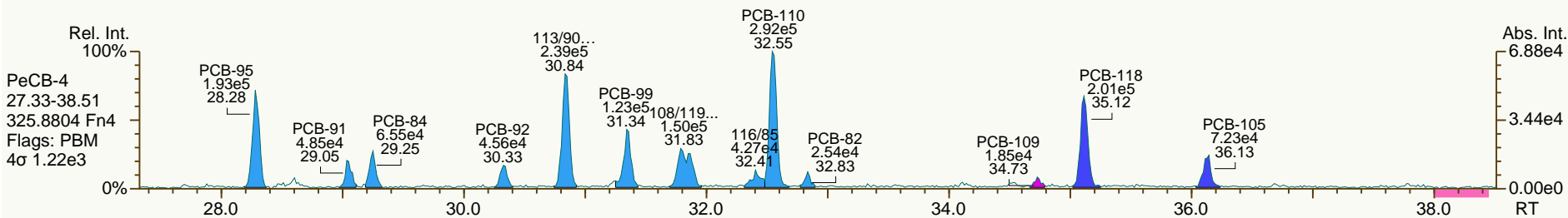
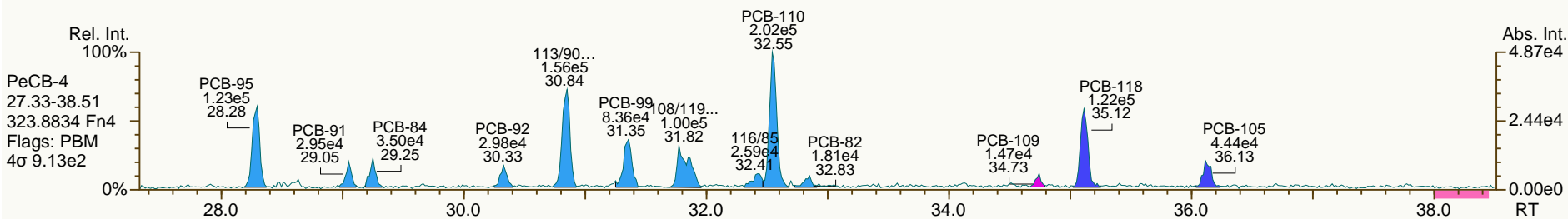
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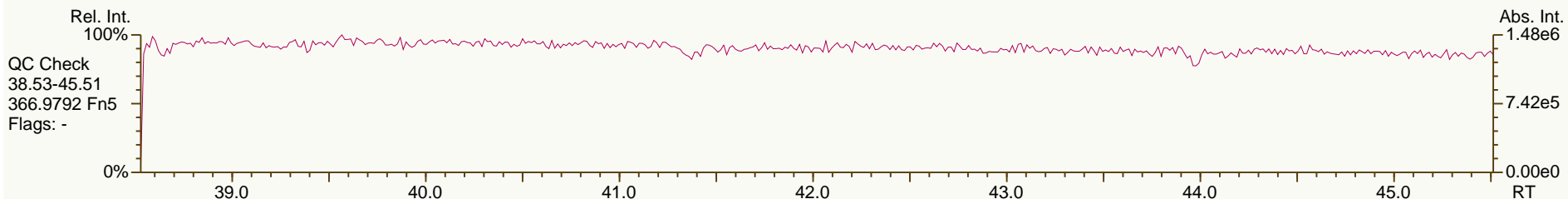
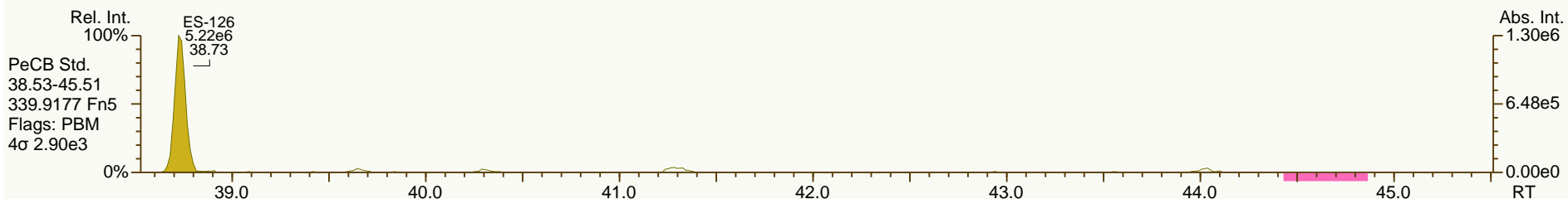
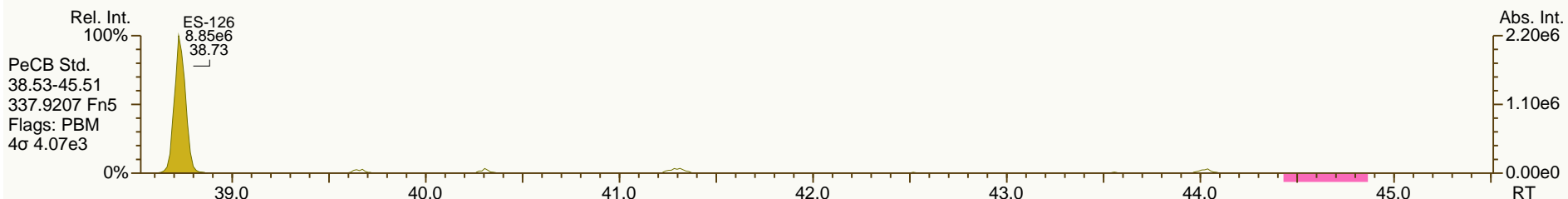
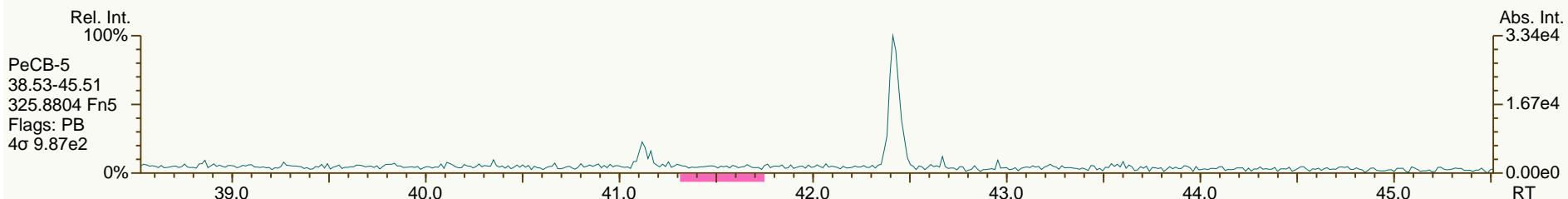
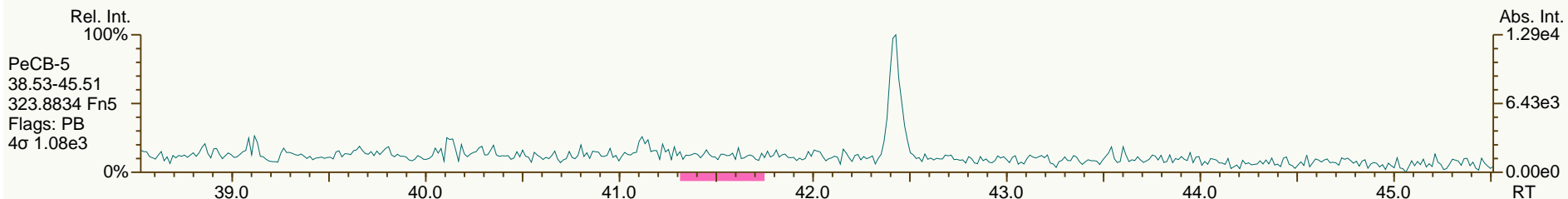




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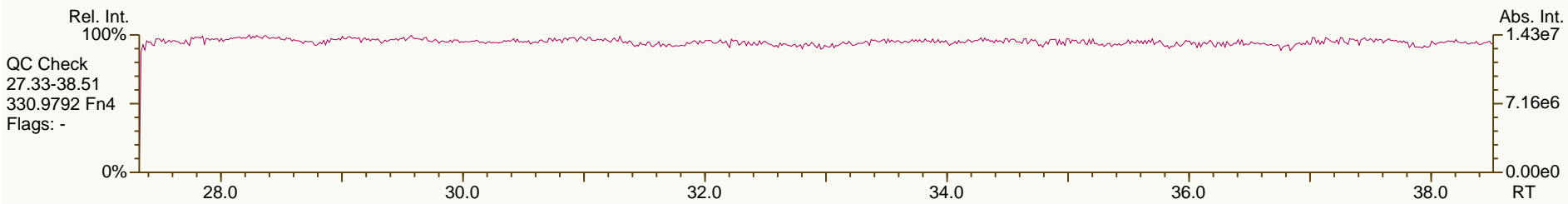
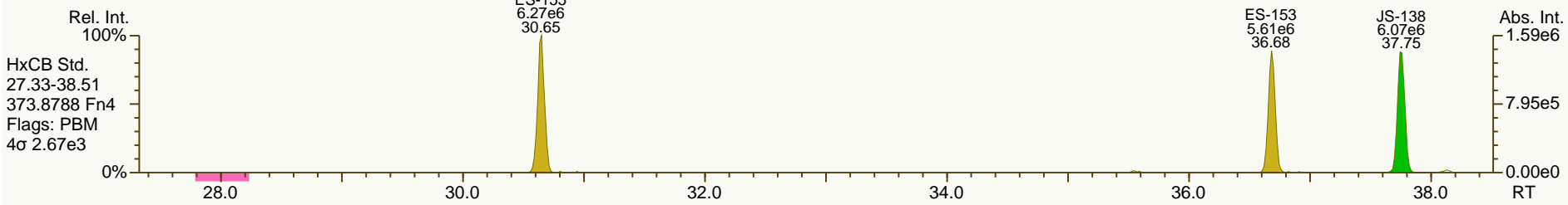
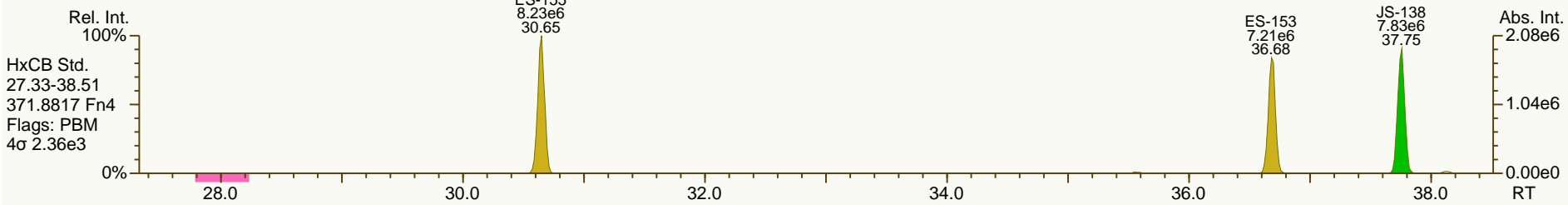
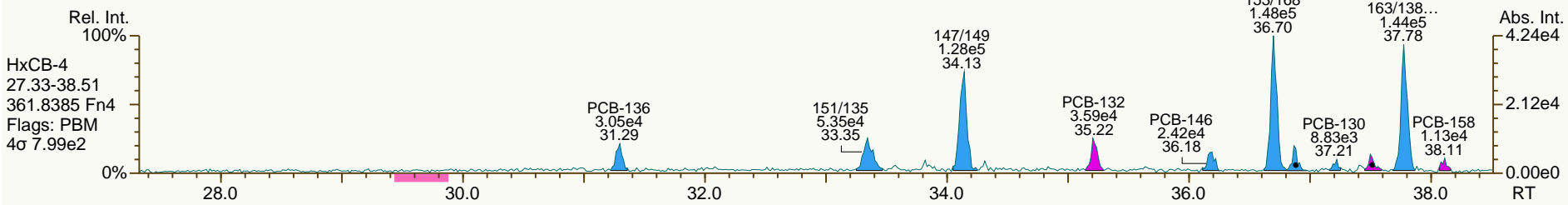
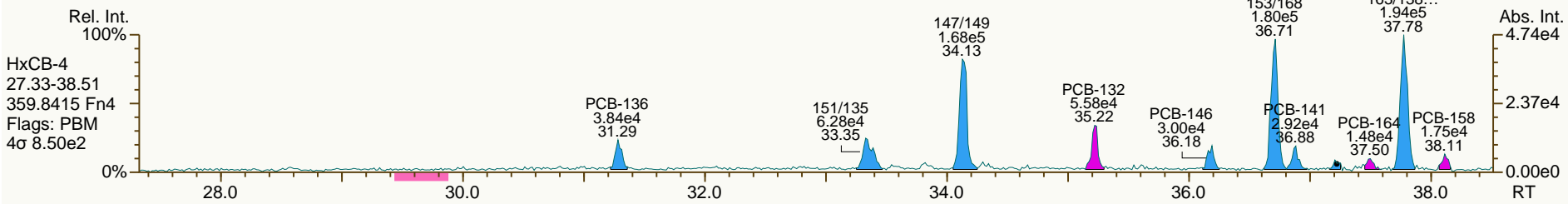
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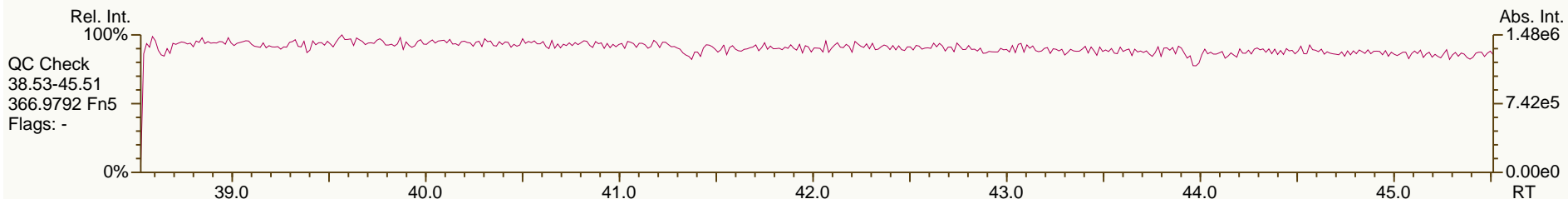
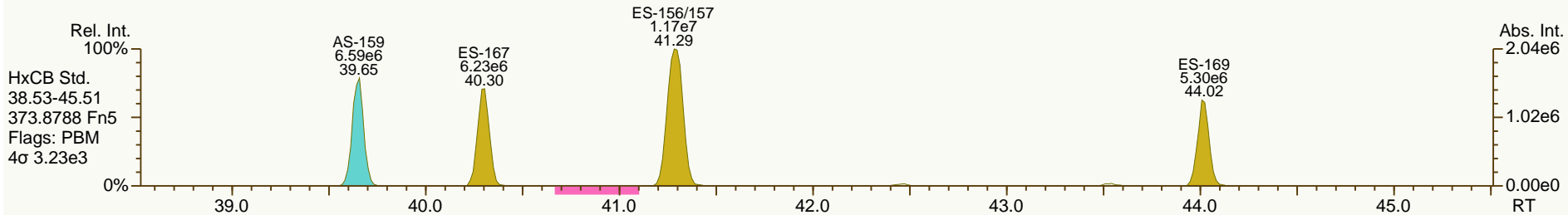
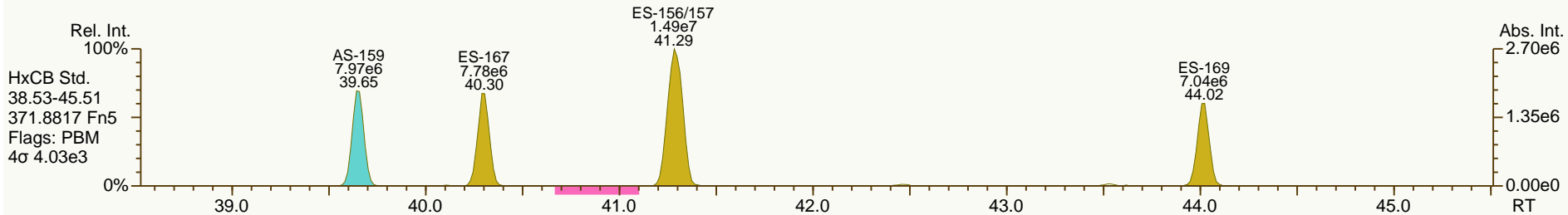
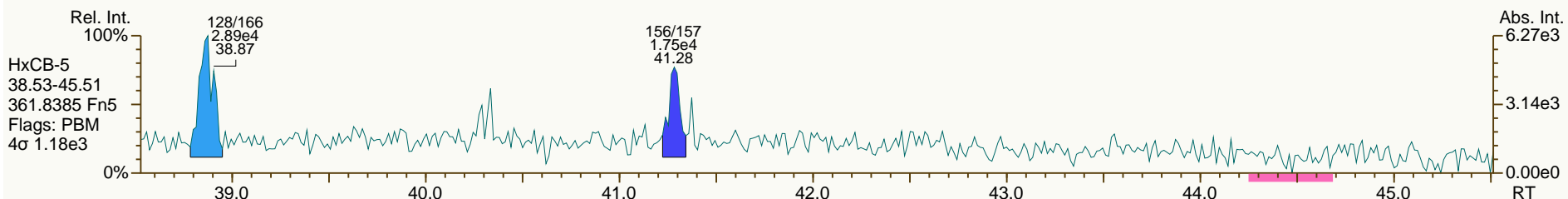
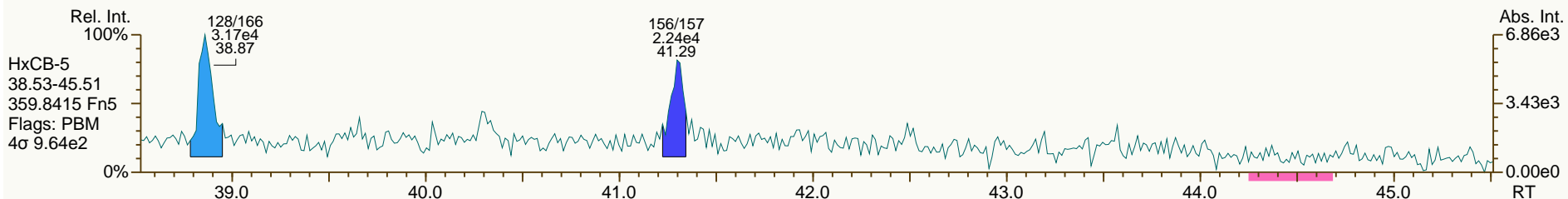
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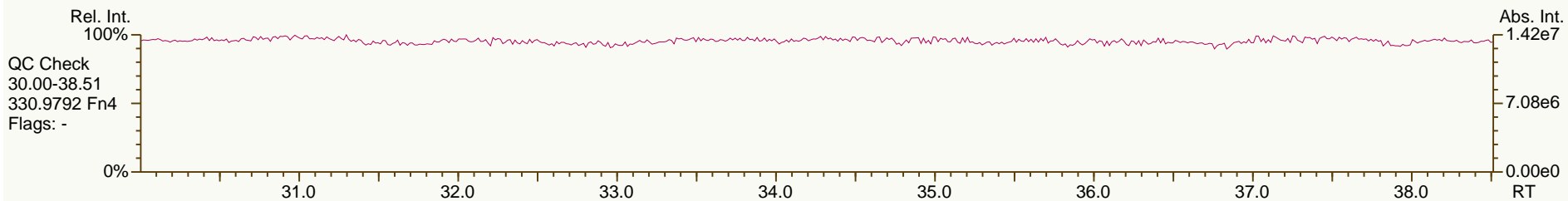
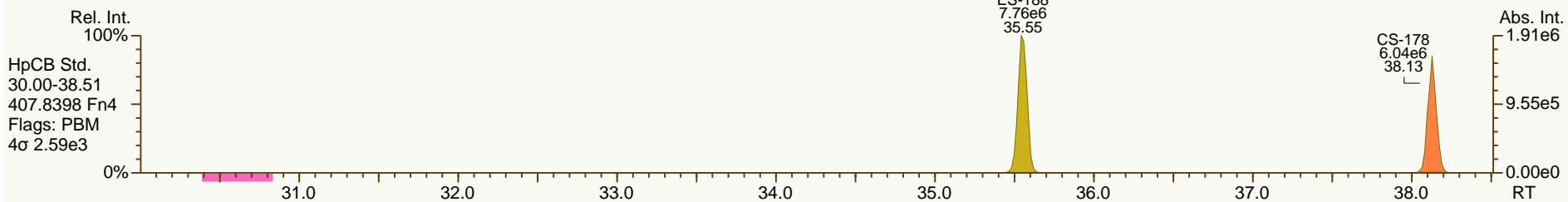
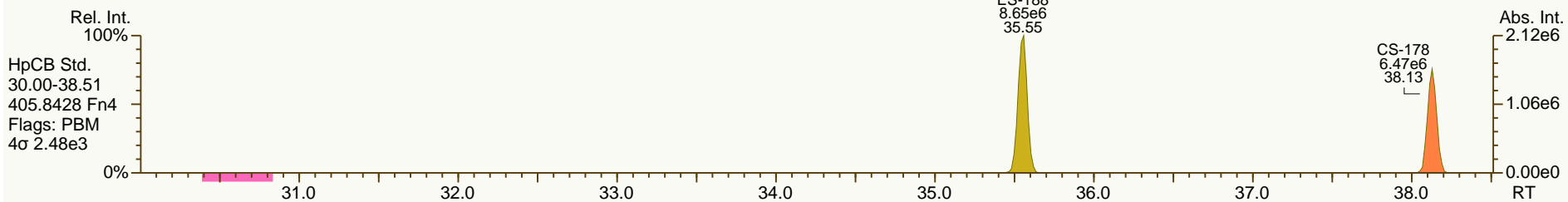
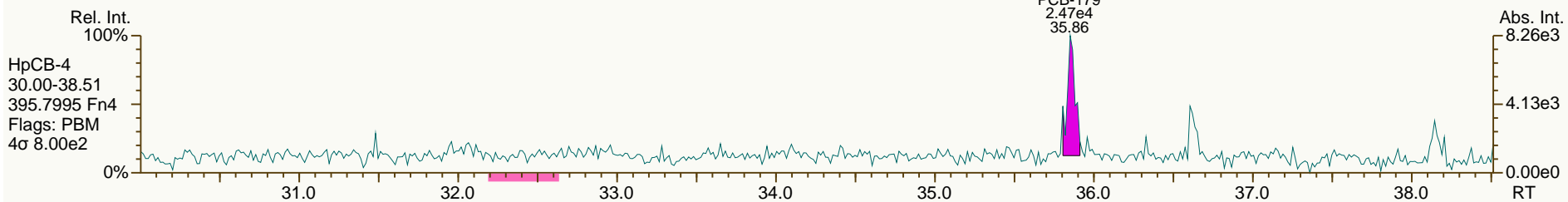
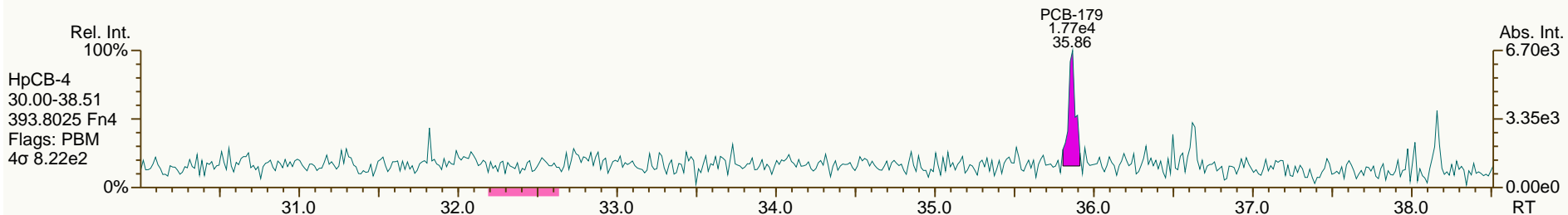
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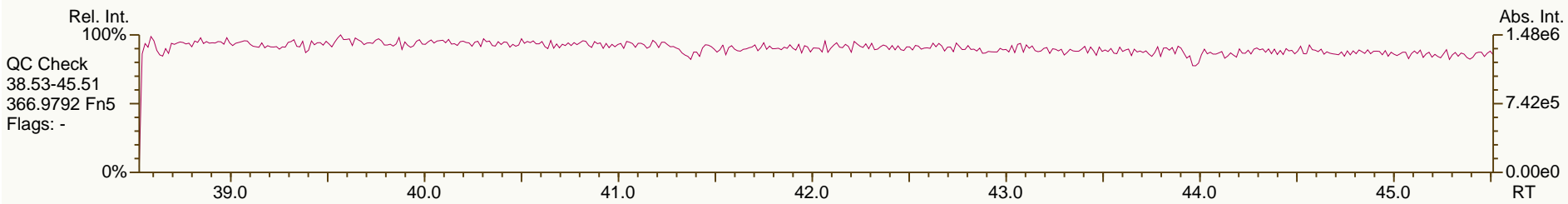
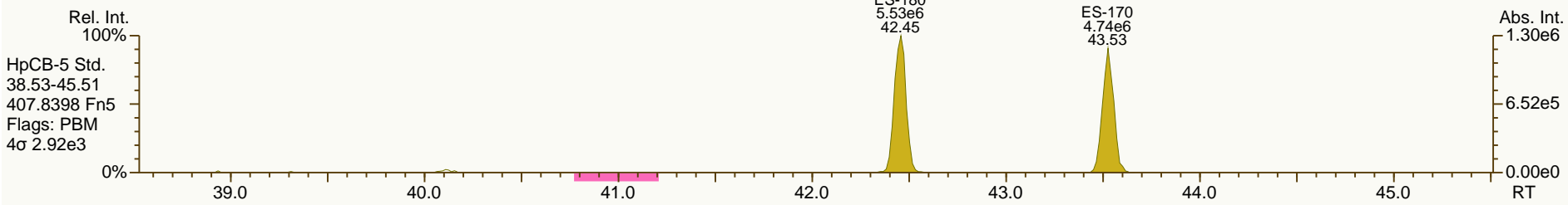
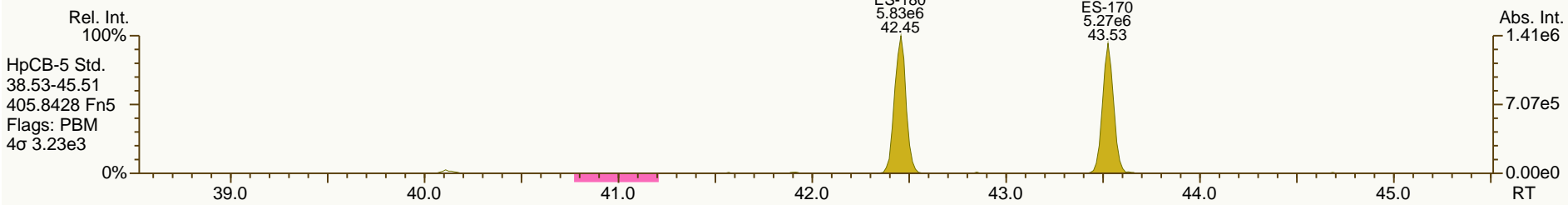
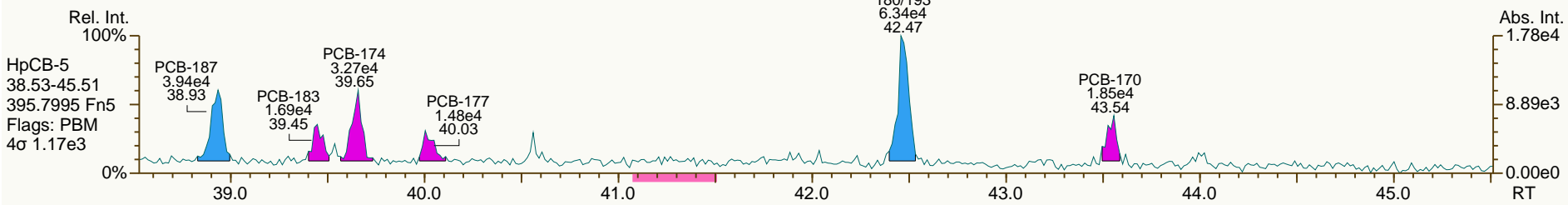
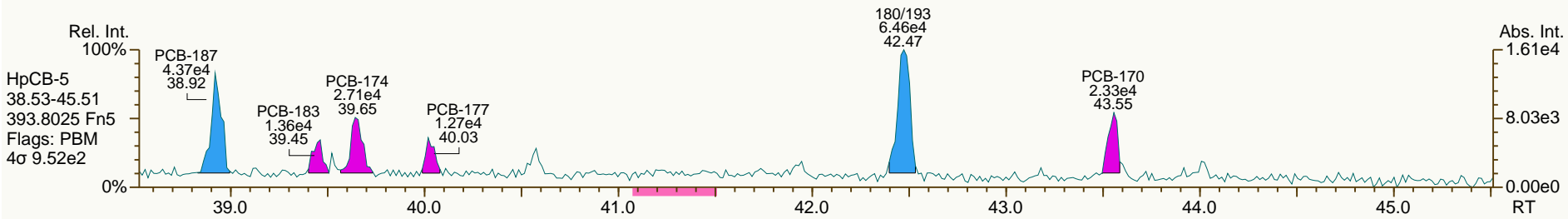
Acq: 24-Mar-2014 21:35:17  
 User: CTW Datafile: 140324S12



SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

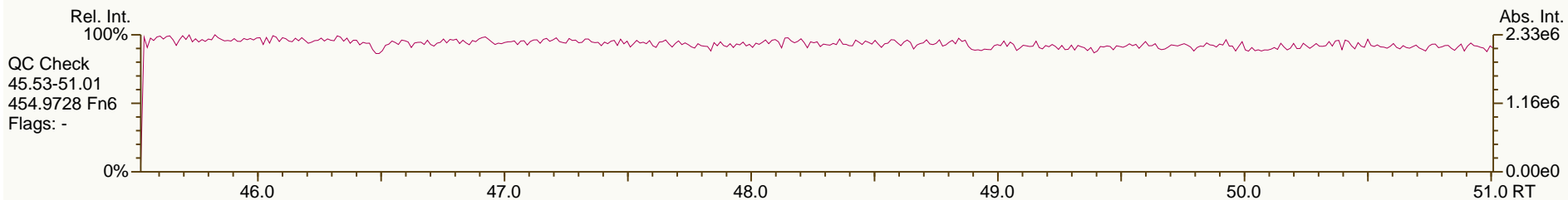
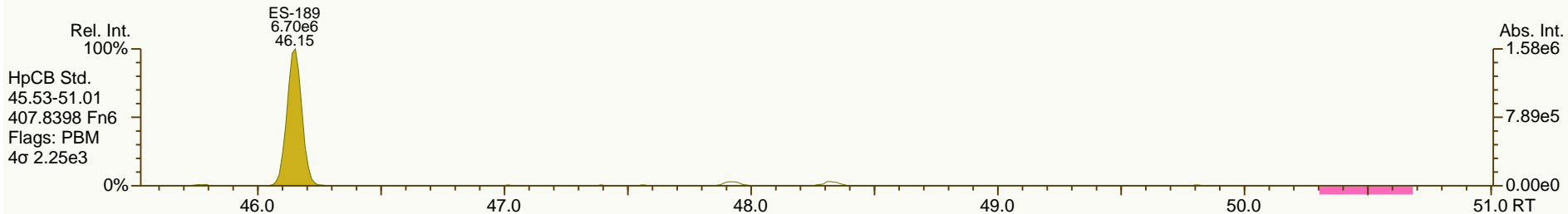
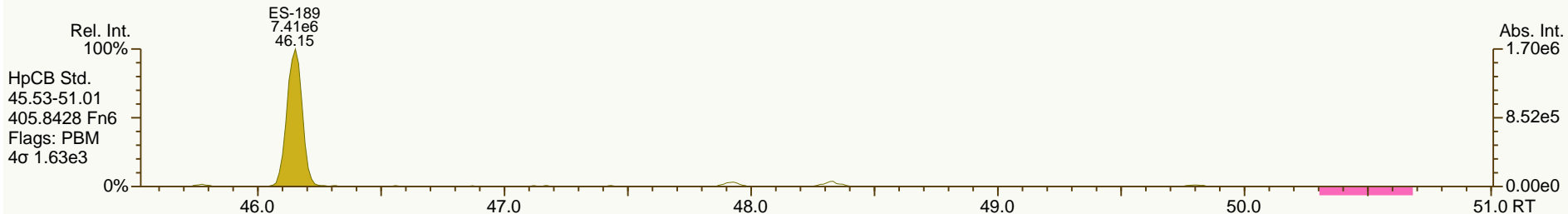
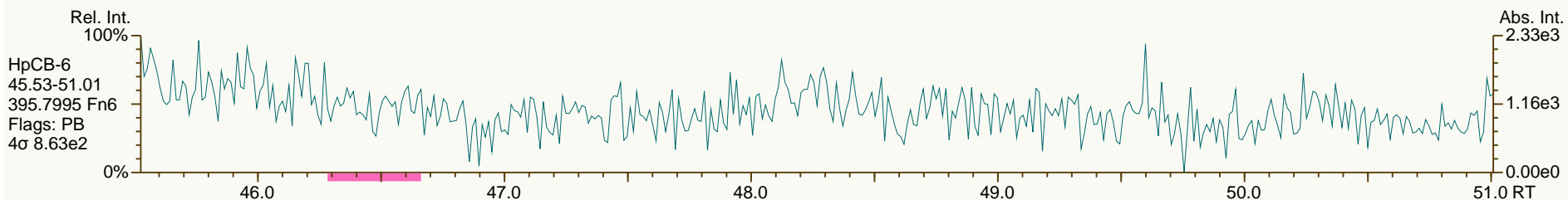
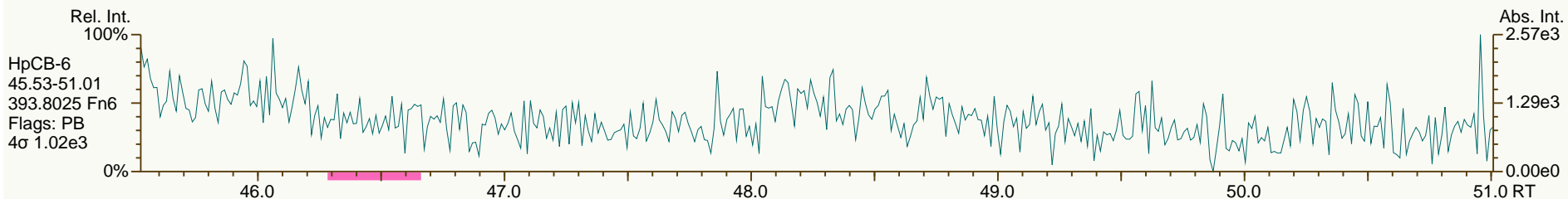
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 User: CTW Datafile: 140324S12



SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

Acq: 24-Mar-2014 21:35:17  
 User: CTW Datafile: 140324S12



SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

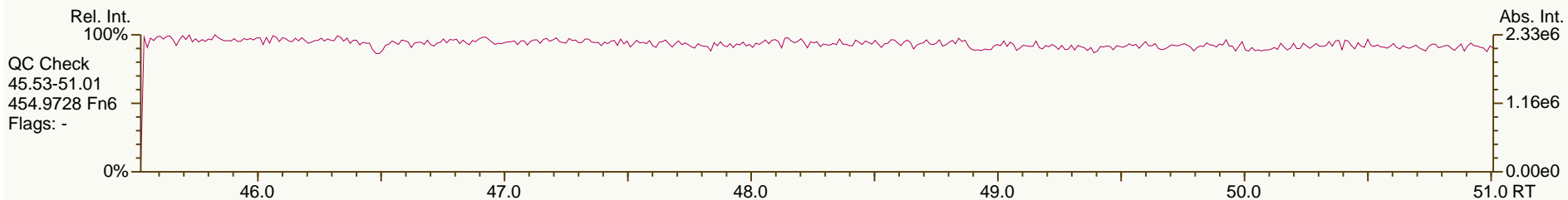
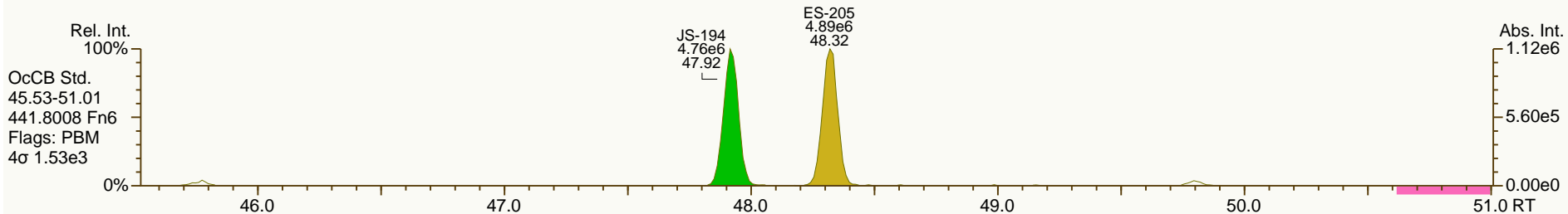
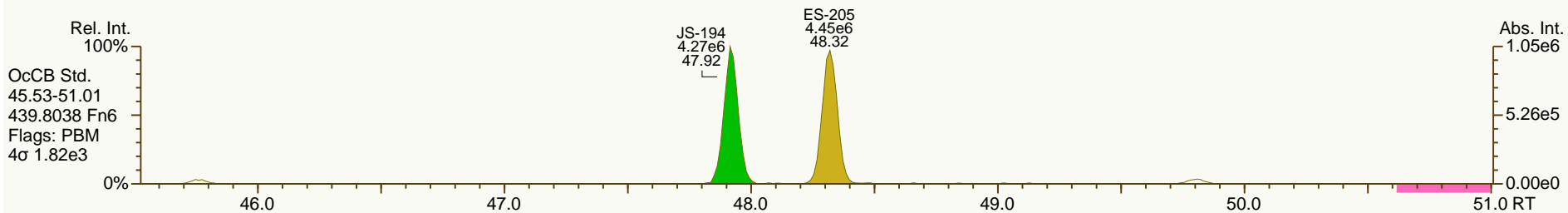
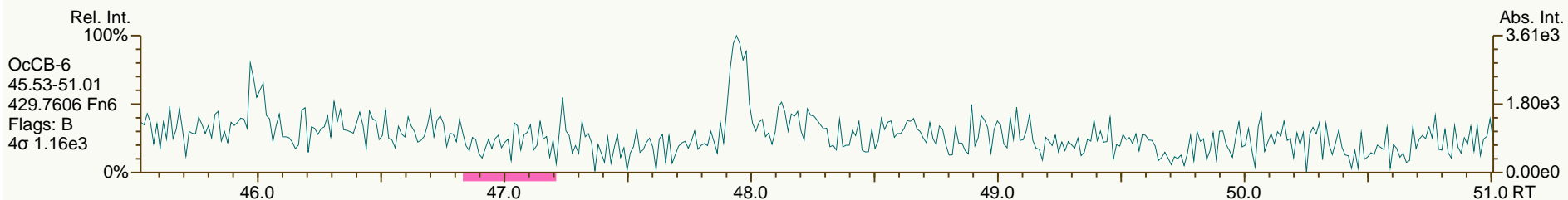
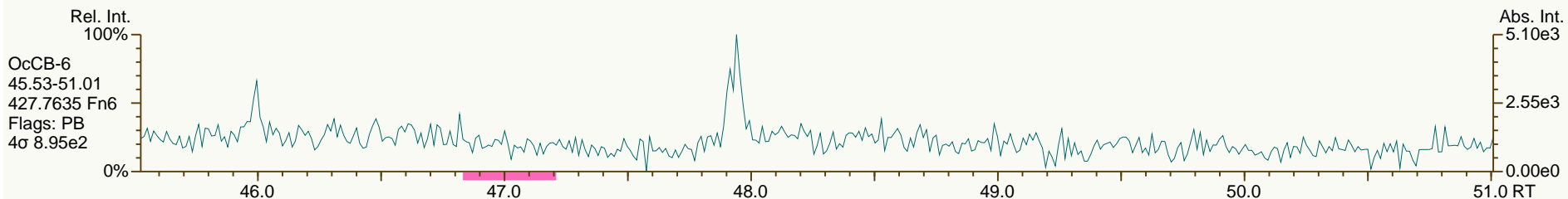
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 User: CTW Datafile: 140324S12



SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

Acq: 24-Mar-2014 21:35:17  
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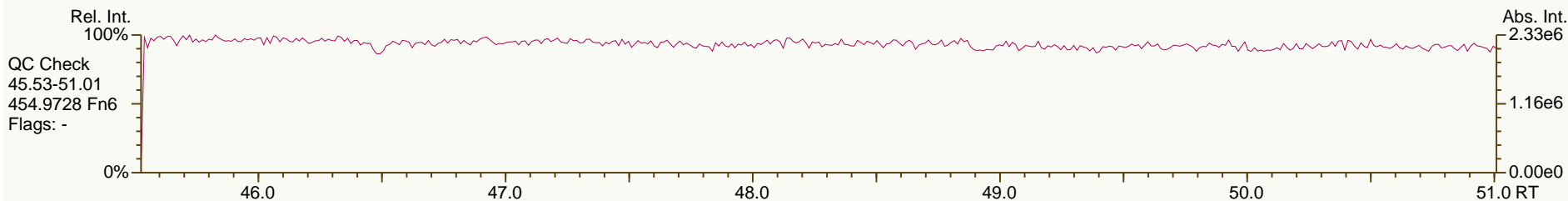
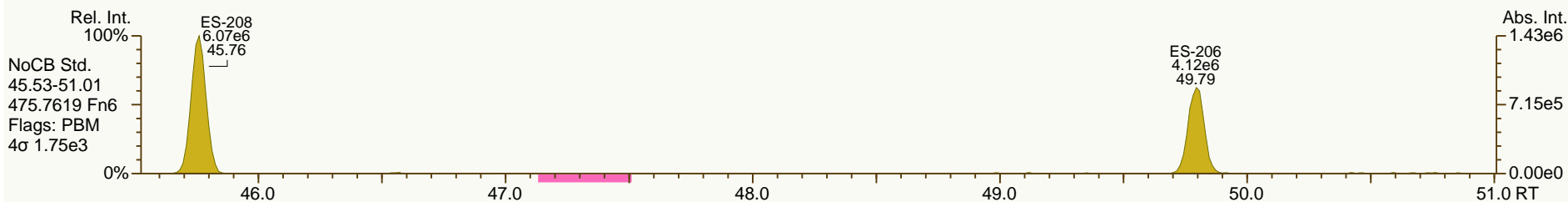
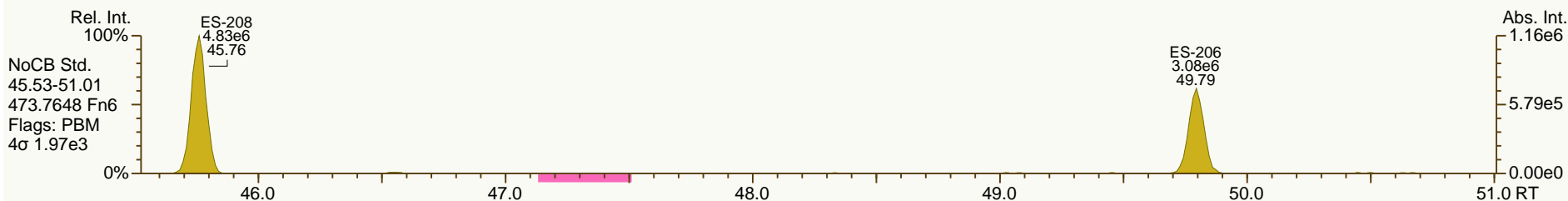
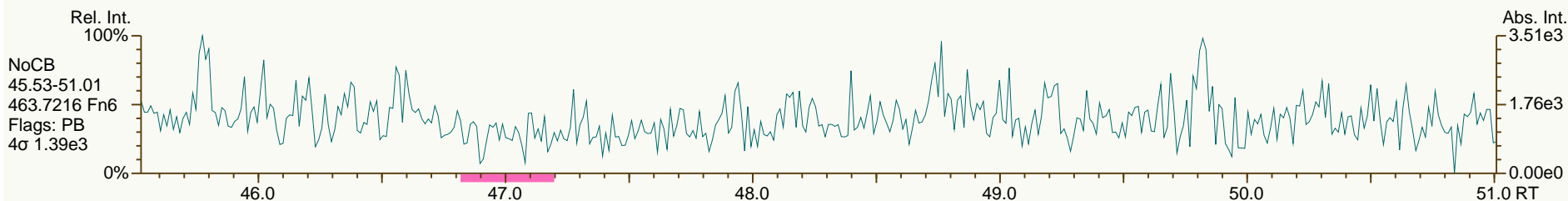
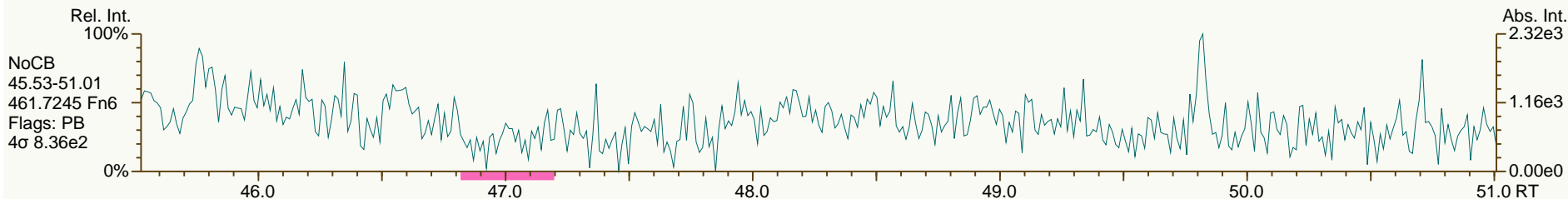




SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

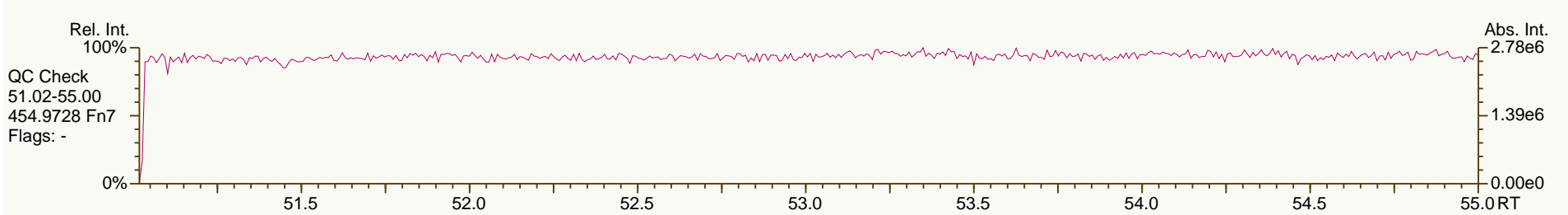
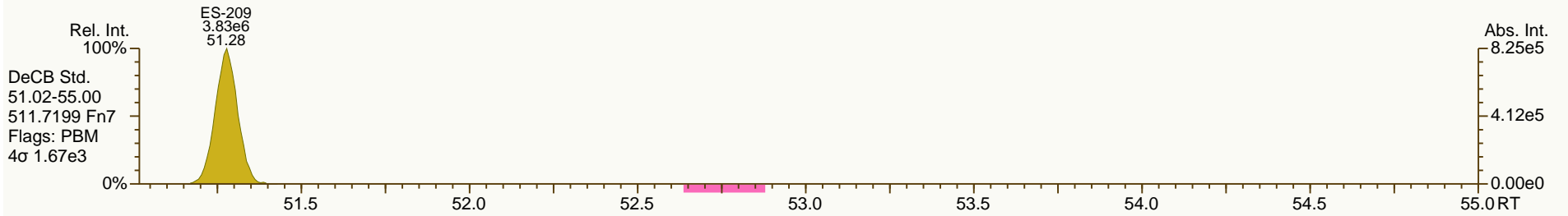
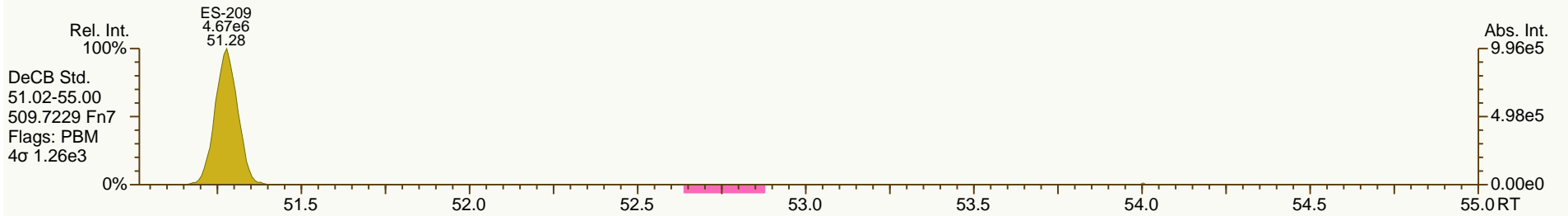
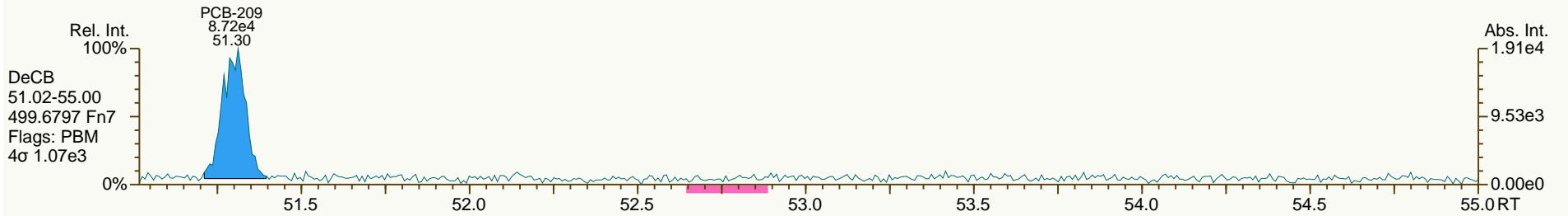
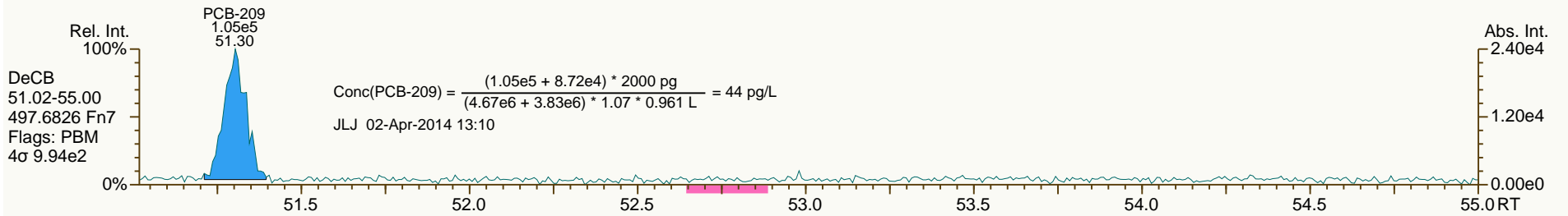
Acq: 24-Mar-2014 21:35:17  
 User: CTW Datafile: 140324S12



SGS ID: A6492\_11883\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: HSC14.1-1SWMID-140311-N (Total)  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 55

Acq: 24-Mar-2014 21:35:17  
 User: CTW Datafile: 140324S12



## SGS Analytical Perspectives — Run Log

Project: A6492\_11883\_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90\_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
4	140324S04	13	CS3_140324_PCB_SA	1.00	SIL 13-79-3	CTW, JLJ	377-614	24-Mar-2014	13:40:36
5	140324S05	49	OPR1_11883_PCB-RJ	1.00	0_11883_OPR001	CTW, JLJ	059-730	24-Mar-2014	14:44:33
6	140324S06	12	SBS_140324_PCB_SC	1.00	SIL 13-42-1	CTW, JLJ	377-788	24-Mar-2014	15:40:49
7	140324S07	50	MB1_11883_PCB_TLX-RJ	1.00	Method Blank	CTW, JLJ	553-005	24-Mar-2014	16:41:39
8	140324S08	51	A6492_11883_PCB_001-RJ	0.97	PB006.2-1 SWMID-140311-D (Total)	CTW, JLJ	712-582	24-Mar-2014	17:38:59
9	140324S09	52	A6492_11883_PCB_002-RJ	0.96	PB006.2-1 SWMID-140311-D (Dissolved)	CTW, JLJ	148-327	24-Mar-2014	18:38:02
10	140324S10	53	A6492_11883_PCB_003-RJ	0.95	PB006.2-1 SWMID-140311-N (Total)	CTW, JLJ	911-445	24-Mar-2014	19:37:08
11	140324S11	54	A6492_11883_PCB_004-RJ	0.96	PB006.2-1 SWMID-140311-N (Dissolved)	CTW, JLJ	444-564	24-Mar-2014	20:36:12
12	140324S12	55	A6492_11883_PCB_005-RJ	0.96	HSC14.1-1SWMID-140311-N (Total)	CTW, JLJ	058-314	24-Mar-2014	21:35:17
13	140324S13	12	SBS_140324_PCB_SD	1.00	SIL 13-42-1	CTW, JLJ	120-721	24-Mar-2014	22:34:22

PCB QC Summary		SGS Environmental Services			Processed: 2-Apr-2014 13:01		
Lab ID:	CS3_140324_PCB_SA						
Acquired:	24-MAR-2014 13:40		ICAL: MM4_PCB_10292013_05FEB2014				
Datafile:	140324S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.15	3.01E+07	0.77 Y	1.36	1.35	-0.9%	
PCB-81 344'5'-TeCB	32.67	2.99E+07	0.79 Y	1.32	1.35	2.7%	
PCB-105 233'44'-PeCB	36.15	1.99E+07	0.62 Y	1.03	1.07	3.6%	
PCB-114 2344'5'-PeCB	35.61	2.20E+07	0.62 Y	1.13	1.15	2.0%	
PCB-118 23'44'5'-PeCB	35.14	2.09E+07	0.62 Y	1.13	1.13	-0.3%	
PCB-123 23'44'5'-PeCB	34.86	2.13E+07	0.62 Y	1.11	1.14	2.6%	
PCB-126 33'44'5'-PeCB	38.77	2.29E+07	0.61 Y	1.33	1.31	-1.2%	
PCB-156/157 ...-HxCB	41.33	3.68E+07	1.23 Y	1.09	1.14	4.5%	
PCB-167 23'44'55'-HxCB	40.34	2.04E+07	1.22 Y	1.15	1.17	1.9%	
PCB-169 33'44'55'-HxCB	44.05	1.67E+07	1.28 Y	1.10	1.13	3.2%	
PCB-189 233'44'55'-HpCB	46.19	2.08E+07	1.04 Y	1.21	1.22	0.6%	
PCB-209 DeCB	51.32	1.08E+07	1.16 Y	1.07	1.07	0.0%	
ES PCB-1	12.03	7.56E+07	3.21 Y	1.05	1.10	4.2%	
ES PCB-3	14.35	6.57E+07	3.24 Y	0.97	0.96	-1.5%	
ES PCB-4	14.61	4.91E+07	1.54 Y	0.66	0.71	8.1%	
ES PCB-15	20.39	6.55E+07	1.63 Y	1.09	0.95	-12.3%	
ES PCB-19	17.73	4.04E+07	1.05 Y	0.55	0.59	7.1%	
ES PCB-37	26.77	4.94E+07	1.06 Y	1.44	1.28	-11.3%	
ES PCB-54	20.68	5.92E+07	0.77 Y	1.42	1.53	7.6%	
ES PCB-77	33.13	4.45E+07	0.82 Y	1.26	1.15	-8.6%	
ES PCB-81	32.65	4.42E+07	0.83 Y	1.27	1.15	-9.6%	
ES PCB-104	25.69	5.22E+07	1.57 Y	1.56	1.62	3.8%	
ES PCB-105	36.13	3.72E+07	1.62 Y	1.23	1.15	-6.6%	
ES PCB-114	35.58	3.82E+07	1.59 Y	1.20	1.18	-1.8%	
ES PCB-118	35.12	3.70E+07	1.59 Y	1.13	1.15	1.4%	
ES PCB-123	34.83	3.73E+07	1.57 Y	1.16	1.15	-0.8%	
ES PCB-126	38.75	3.48E+07	1.63 Y	1.22	1.08	-11.7%	
ES PCB-153	36.71	3.52E+07	1.29 Y	1.10	1.10	0.0%	
ES PCB-155	30.67	4.92E+07	1.28 Y	1.60	1.54	-4.0%	
ES PCB-156/157	41.31	6.44E+07	1.25 Y	1.14	1.01	-11.4%	
ES PCB-167	40.32	3.48E+07	1.26 Y	1.17	1.09	-7.0%	
ES PCB-169	44.03	2.96E+07	1.27 Y	1.11	0.93	-16.3%	
ES PCB-170	43.55	2.51E+07	1.04 Y	1.18	1.35	13.9%	
ES PCB-180	42.47	3.00E+07	1.07 Y	1.44	1.61	12.0%	
ES PCB-188	35.57	4.94E+07	1.07 Y	1.52	1.54	1.6%	
ES PCB-189	46.17	3.41E+07	1.05 Y	1.80	1.83	1.7%	
ES PCB-202	40.13	4.40E+07	0.90 Y	1.39	1.38	-0.7%	
ES PCB-205	48.34	2.19E+07	0.88 Y	1.26	1.18	-6.5%	
ES PCB-206	49.81	1.71E+07	0.80 Y	1.00	0.92	-7.8%	
ES PCB-208	45.78	2.68E+07	0.79 Y	1.38	1.44	4.2%	
ES PCB-209	51.30	2.02E+07	1.19 Y	1.26	1.08	-14.1%	

PCB QC Summary		SGS Environmental Services			Processed: 2-Apr-2014 13:01		
Lab ID:	CS3_140324_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	24-MAR-2014 13:40						
Datafile:	140324S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	5.61E+07	1.06 Y	1.10	1.14	3.3%	
SS PCB-111	33.15	3.96E+07	1.56 Y	1.03	1.06	3.3%	
SS PCB-178	38.15	3.13E+07	1.05 Y	0.62	0.63	2.3%	
CS PCB-28	23.18	5.61E+07	1.06 Y	1.59	1.45	-8.4%	
CS PCB-111	33.15	3.96E+07	1.56 Y	1.20	1.23	2.5%	
CS PCB-178	38.15	3.13E+07	1.05 Y	0.94	0.98	4.0%	
JS PCB-9	16.62	6.88E+07	1.64 Y		-	-	
JS PCB-52	24.82	3.86E+07	0.76 Y		-	-	
JS PCB-101	30.84	3.23E+07	1.59 Y		-	-	
JS PCB-138	37.78	3.20E+07	1.24 Y		-	-	
JS PCB-194	47.94	1.86E+07	0.88 Y		-	-	
PCB-1 2-MoCB	12.04	4.51E+07	3.15 Y	1.21	1.19	-1.7%	
PCB-3 4-MoCB	14.37	4.14E+07	3.16 Y	1.30	1.26	-2.8%	
PCB-4 22'-DiCB	14.63	2.47E+07	1.52 Y	0.98	1.01	2.5%	
PCB-15 44'-DiCB	20.40	3.90E+07	1.58 Y	1.19	1.19	0.3%	
PCB-19 22'6'-TrCB	17.75	2.08E+07	1.06 Y	1.05	1.03	-2.2%	
PCB-37 344'-TrCB	26.78	3.27E+07	1.07 Y	1.32	1.32	-0.1%	
PCB-54 22'66'-TeCB	20.70	2.97E+07	0.80 Y	1.02	1.00	-1.3%	
PCB-104 22'466'-PeCB	25.71	2.72E+07	0.63 Y	1.02	1.04	1.9%	
PCB-155 22'44'66'-HxCB	30.69	2.71E+07	1.25 Y	1.11	1.10	-0.2%	
PCB-188 22'34'566'-HpCB	35.60	2.75E+07	1.05 Y	1.10	1.12	1.5%	
PCB-202 22'33'55'66'-OcCB	40.15	1.76E+07	0.87 Y	0.83	0.80	-3.2%	
PCB-205 233'44'55'6'-OcCB	48.36	1.26E+07	0.90 Y	1.11	1.15	3.2%	
PCB-208 22'33'455'66'-NoCB	45.80	1.38E+07	0.78 Y	1.01	1.03	1.9%	
PCB-206 22'33'44'55'6'-NoCB	49.83	8.61E+06	0.74 Y	1.01	1.01	-0.7%	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	

PCB QC Summary - Ax2 Detail				Processed: 2-Apr-2014 13:01			
Lab ID:	CS3_140324_PCB_SA			ICAL: MM4_PCB_10292013_05FEB2014			
Acquired:	24-MAR-2014 13:40						
Datafile:	140324804						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	12.04	4.51E+07	3.15 Y	1.21	-	-	-
PCB-2 3-MoCB	14.18	4.21E+07	3.17 Y	1.29	1.28	-0.4%	-
PCB-3 4-MoCB	14.37	4.14E+07	3.16 Y	1.30	-	-	-
PCB-4 22'-DiCB	14.63	2.47E+07	1.52 Y	0.98	-	-	-
PCB-10 26-DiCB	14.81	3.91E+07	1.51 Y	1.53	1.59	4.0%	-
PCB-9 25-DiCB	16.63	3.81E+07	1.57 Y	1.04	1.16	12.3%	-
PCB-7 24-DiCB	16.80	4.24E+07	1.57 Y	1.18	1.29	9.4%	-
PCB-6 23'-DiCB	17.03	3.96E+07	1.57 Y	1.11	1.21	9.2%	-
PCB-5 23-DiCB	17.34	3.94E+07	1.56 Y	1.10	1.20	9.3%	-
PCB-8 24'-DiCB	17.46	4.00E+07	1.52 Y	1.13	1.22	7.8%	-
PCB-14 35-DiCB	19.03	4.58E+07	1.56 Y	1.28	1.40	8.9%	-
PCB-11 33'-DiCB	19.82	3.83E+07	1.56 Y	1.10	1.17	6.0%	-
PCB-13/12 34'/34-DiCB	20.12	7.54E+07	1.55 Y	1.11	1.15	3.3%	-
PCB-15 44'-DiCB	20.40	3.90E+07	1.58 Y	1.19	-	-	-
PCB-19 22'6-TrCB	17.75	2.08E+07	1.06 Y	1.05	-	-	-
PCB-30/18 246/22'5-TrCB	19.53	5.44E+07	1.03 Y	1.33	1.34	1.2%	-
PCB-17 22'4-TrCB	19.94	2.32E+07	1.04 Y	1.15	1.15	-0.5%	-
PCB-27 23'6-TrCB	20.13	3.14E+07	1.04 Y	1.56	1.55	-0.7%	-
PCB-24 236-TrCB	20.27	3.08E+07	1.02 Y	1.50	1.52	1.9%	-
PCB-16 22'3-TrCB	20.37	1.65E+07	1.04 Y	0.88	0.82	-7.0%	-
PCB-32 24'6-TrCB	20.85	3.37E+07	1.02 Y	1.74	1.67	-4.0%	-
PCB-34 23'5'-TrCB	22.01	3.57E+07	1.07 Y	1.33	1.44	8.4%	-
PCB-23 235-TrCB	22.16	3.55E+07	1.08 Y	1.40	1.44	2.8%	-
PCB-26/29 23'5/245-TrCB	22.45	7.26E+07	1.07 Y	1.41	1.47	4.1%	-
PCB-25 23'4-TrCB	22.65	3.58E+07	1.08 Y	1.41	1.45	2.9%	-
PCB-31 24'5-TrCB	22.93	3.76E+07	1.08 Y	1.46	1.52	4.1%	-
PCB-28/20 244'/233'-TrCB	23.21	7.02E+07	1.07 Y	1.39	1.42	2.2%	-
PCB-21/33 234/23'4'-TrCB	23.39	7.28E+07	1.05 Y	1.42	1.47	3.8%	-
PCB-22 234'-TrCB	23.77	3.37E+07	1.05 Y	1.29	1.36	5.7%	-
PCB-36 33'5-TrCB	25.16	3.71E+07	1.07 Y	1.42	1.50	5.9%	-
PCB-39 34'5-TrCB	25.49	3.70E+07	1.06 Y	1.45	1.50	3.1%	-
PCB-38 345-TrCB	26.02	3.35E+07	1.06 Y	1.30	1.36	4.0%	-
PCB-35 33'4-TrCB	26.42	3.15E+07	1.07 Y	1.25	1.27	2.2%	-
PCB-37 344'-TrCB	26.78	3.27E+07	1.07 Y	1.32	-	-	-
PCB-54 22'66'-TeCB	20.70	2.97E+07	0.80 Y	1.02	-	-	-
PCB-50/53 22'46/22'56'-TeCB	22.70	4.15E+07	0.79 Y	0.85	0.94	10.3%	-
PCB-45 22'36'-TeCB	23.29	1.80E+07	0.77 Y	0.71	0.82	14.0%	-
PCB-51 22'46'-TeCB	23.36	2.06E+07	0.78 Y	0.88	0.93	6.0%	-
PCB-46 22'36'-TeCB	23.58	1.70E+07	0.77 Y	0.68	0.77	13.5%	-
PCB-52 22'55'-TeCB	24.84	1.95E+07	0.78 Y	0.80	0.88	9.7%	-
PCB-73 23'5'6'-TeCB	24.97	2.71E+07	0.78 Y	1.07	1.23	15.1%	-

Lab ID: - Ax2 Detail			Processed: 2-Apr-2014 13:01			
Lab ID:	CS3_140324_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014				
Acquired:	24-MAR-2014 13:40					
Datafile:	140324S04					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	25.07	1.58E+07	0.79 Y	0.68	0.72	4.9%
PCB-69/49 23'46/22'45'-TeCB	25.26	4.78E+07	0.79 Y	0.97	1.08	11.2%
PCB-48 22'45'-TeCB	25.54	1.98E+07	0.79 Y	0.80	0.89	11.2%
PCB-44/47/65 ...-TeCB	25.76	6.37E+07	0.78 Y	0.87	0.96	10.1%
PCB-59/62/75 ...-TeCB	26.04	8.19E+07	0.78 Y	1.11	1.23	11.0%
PCB-42 22'34'-TeCB	26.21	1.78E+07	0.80 Y	0.73	0.80	10.4%
PCB-41 22'34'-TeCB	26.54	1.61E+07	0.77 Y	0.66	0.73	11.2%
PCB-71/40 23'4'6/22'33'-TeCB	26.64	4.06E+07	0.79 Y	0.82	0.92	11.2%
PCB-64 23'46'-TeCB	26.84	2.89E+07	0.79 Y	1.20	1.31	9.3%
PCB-72 23'55'-TeCB	27.56	3.20E+07	0.79 Y	1.39	1.45	4.4%
PCB-68 23'45'-TeCB	27.82	3.46E+07	0.79 Y	1.49	1.56	5.2%
PCB-57 23'35'-TeCB	28.19	3.12E+07	0.77 Y	1.33	1.41	5.9%
PCB-58 23'35'-TeCB	28.40	3.19E+07	0.77 Y	1.38	1.44	4.3%
PCB-67 23'45'-TeCB	28.55	3.30E+07	0.79 Y	1.47	1.49	1.4%
PCB-63 23'45'-TeCB	28.78	3.49E+07	0.78 Y	1.50	1.58	4.8%
PCB-61/70/74/76 ...-TeCB	29.08	1.28E+08	0.79 Y	1.38	1.45	4.7%
PCB-66 23'44'-TeCB	29.36	3.08E+07	0.78 Y	1.28	1.39	8.9%
PCB-55 23'34'-TeCB	29.51	2.99E+07	0.79 Y	1.33	1.35	1.9%
PCB-56 23'34'-TeCB	29.95	2.96E+07	0.77 Y	1.25	1.34	6.9%
PCB-60 23'44'-TeCB	30.14	3.02E+07	0.77 Y	1.34	1.36	1.5%
PCB-80 33'55'-TeCB	30.47	3.53E+07	0.79 Y	1.51	1.60	5.8%
PCB-79 33'45'-TeCB	31.80	3.51E+07	0.80 Y	1.55	1.59	2.7%
PCB-78 33'45'-TeCB	32.29	2.88E+07	0.78 Y	1.25	1.30	4.3%
PCB-104 22'46'6'-PeCB	25.71	2.72E+07	0.63 Y	1.02	-	-
PCB-96 22'36'6'-PeCB	26.03	2.35E+07	0.62 Y	0.90	0.90	-0.5%
PCB-103 22'45'6'-PeCB	27.73	1.75E+07	0.61 Y	0.92	0.94	2.3%
PCB-94 22'35'6'-PeCB	27.93	1.51E+07	0.60 Y	0.79	0.81	1.9%
PCB-95 22'35'6'-PeCB	28.31	1.62E+07	0.63 Y	0.85	0.87	2.7%
PCB-100/93 22'44'6/22'35'6'-PeC	28.52	3.22E+07	0.62 Y	0.88	0.86	-2.0%
PCB-102 22'45'6'-PeCB	28.63	1.78E+07	0.62 Y	0.95	0.96	0.6%
PCB-98 22'34'6'-PeCB	28.71	1.54E+07	0.63 Y	0.76	0.83	8.4%
PCB-88 22'34'6'-PeCB	29.01	1.57E+07	0.62 Y	0.80	0.84	5.2%
PCB-91 22'34'6'-PeCB	29.07	1.71E+07	0.63 Y	0.90	0.92	1.6%
PCB-84 22'33'6'-PeCB	29.27	1.38E+07	0.61 Y	0.71	0.74	4.1%
PCB-89 22'34'6'-PeCB	29.69	1.46E+07	0.62 Y	0.76	0.78	3.7%
PCB-121 23'45'6'-PeCB	30.03	2.22E+07	0.60 Y	1.15	1.19	3.7%
PCB-92 22'35'5'-PeCB	30.35	1.53E+07	0.59 Y	0.80	0.82	1.9%
PCB-113/90/101 ...-PeCB	30.84	5.40E+07	0.62 Y	0.94	0.96	2.7%
PCB-83 22'33'5'-PeCB	31.28	1.26E+07	0.61 Y	0.68	0.68	-0.9%

Lab ID: - Ax2 Detail				Processed: 2-Apr-2014 13:01			
Lab ID:	CS3_140324_PCB_SA			ICAL: MM4_PCB_10292013_05FEB2014			
Acquired:	24-MAR-2014 13:40						
Datafile:	140324804						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	31.38	1.80E+07	0.61 Y	0.88	0.97		9.9%
PCB-112 233'56-PeCB	31.48	2.12E+07	0.62 Y	1.08	1.14		5.0%
PCB-108/119/86/97/125...-PeCB	31.83	1.10E+08	0.63 Y	0.96	0.98		3.0%
PCB-117 234'56-PeCB	32.36	2.00E+07	0.62 Y	1.00	1.07		6.6%
PCB-116/85 23456/22'344'-PeCB	32.45	3.71E+07	0.63 Y	0.95	0.99		5.2%
PCB-110 233'4'6-PeCB	32.57	1.96E+07	0.62 Y	1.06	1.05		-0.6%
PCB-115 2344'6-PeCB	32.66	2.20E+07	0.63 Y	1.09	1.18		8.1%
PCB-82 22'33'4-PeCB	32.86	1.32E+07	0.62 Y	0.67	0.71		6.1%
PCB-111 233'55'-PeCB	33.17	2.23E+07	0.62 Y	1.15	1.20		4.0%
PCB-120 23'455'-PeCB	33.57	2.22E+07	0.61 Y	1.13	1.19		5.6%
PCB-107/124 ...-PeCB	34.54	4.08E+07	0.63 Y	1.03	1.09		6.6%
PCB-109 233'46-PeCB	34.75	2.12E+07	0.63 Y	1.11	1.14		2.4%
PCB-106 233'45-PeCB	34.97	1.98E+07	0.62 Y	1.02	1.06		3.6%
PCB-122 233'4'5'-PeCB	35.44	1.89E+07	0.63 Y	0.92	0.99		7.5%
PCB-127 33'455'-PeCB	37.39	1.96E+07	0.62 Y	0.96	1.06		10.4%
PCB-155 22'44'66'-HxCB	30.69	2.71E+07	1.25 Y	1.11	-	-	-
PCB-152 22'3566'-HxCB	30.86	2.52E+07	1.26 Y	1.03	1.02		-0.4%
PCB-150 22'34'66'-HxCB	31.00	2.51E+07	1.26 Y	1.00	1.02		1.7%
PCB-136 22'33'66'-HxCB	31.31	2.34E+07	1.28 Y	0.96	0.95		-0.9%
PCB-145 22'3466'-HxCB	31.58	2.41E+07	1.27 Y	0.97	0.98		1.3%
PCB-148 22'34'56'-HxCB	32.86	1.85E+07	1.25 Y	1.07	1.05		-2.1%
PCB-151/135 ...-HxCB	33.38	3.60E+07	1.25 Y	1.02	1.02		0.3%
PCB-154 22'44'56'-HxCB	33.59	2.05E+07	1.26 Y	1.16	1.17		0.1%
PCB-144 22'345'6-HxCB	33.86	1.84E+07	1.26 Y	1.02	1.05		2.7%
PCB-147/149 ...-HxCB	34.16	3.70E+07	1.24 Y	1.03	1.05		1.7%
PCB-134 22'33'56-HxCB	34.34	1.56E+07	1.27 Y	0.82	0.89		7.9%
PCB-143 22'3456'-HxCB	34.42	1.69E+07	1.26 Y	0.98	0.96		-2.3%
PCB-139/140 ...-HxCB	34.68	3.75E+07	1.26 Y	1.07	1.06		-0.4%
PCB-131 22'33'46-HxCB	34.86	1.61E+07	1.25 Y	0.92	0.92		-0.3%
PCB-142 22'3456-HxCB	35.00	1.62E+07	1.27 Y	0.91	0.92		1.7%
PCB-132 22'33'46'-HxCB	35.24	1.65E+07	1.27 Y	0.93	0.93		0.5%
PCB-133 22'33'55'-HxCB	35.64	1.71E+07	1.24 Y	0.96	0.97		1.3%
PCB-165 233'55'6-HxCB	35.99	2.15E+07	1.26 Y	1.18	1.22		3.9%
PCB-146 22'34'55'-HxCB	36.20	1.88E+07	1.25 Y	1.10	1.07		-2.5%
PCB-161 233'45'6-HxCB	36.32	2.33E+07	1.26 Y	1.35	1.32		-2.3%
PCB-153/168 ...-HxCB	36.75	4.42E+07	1.26 Y	1.29	1.26		-2.5%
PCB-141 22'3455'-HxCB	36.89	1.76E+07	1.27 Y	0.96	1.00		4.1%
PCB-130 22'33'45'-HxCB	37.24	1.54E+07	1.27 Y	0.85	0.88		2.5%
PCB-137 22'344'5-HxCB	37.44	1.76E+07	1.26 Y	1.05	1.00		-5.0%
PCB-164 233'4'5'6-HxCB	37.52	2.40E+07	1.26 Y	1.26	1.36		7.8%
PCB-163/138/129 ...-HxCB	37.82	5.62E+07	1.25 Y	1.06	1.06		0.7%

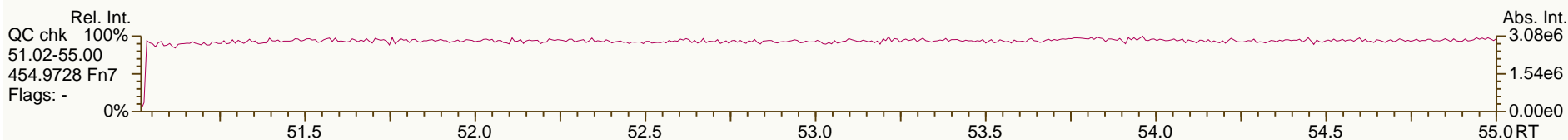
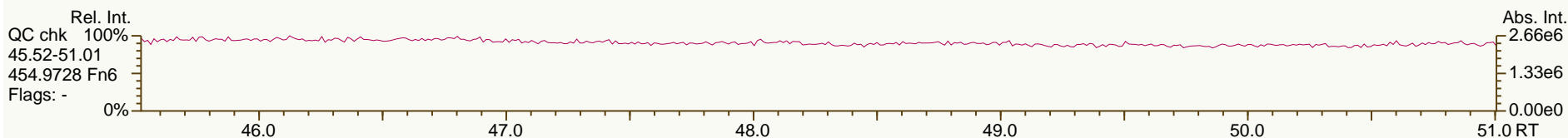
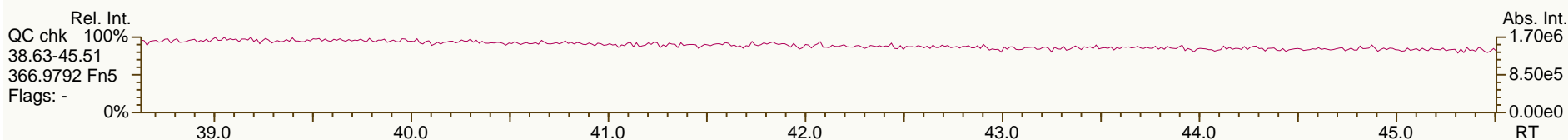
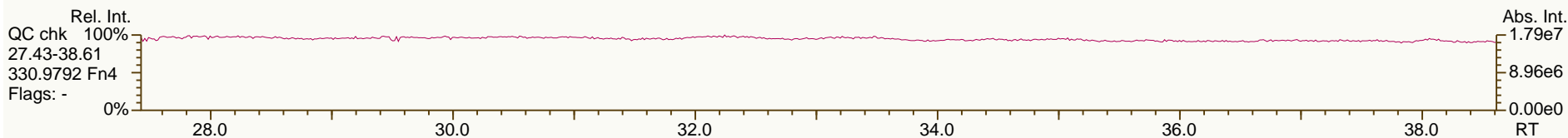
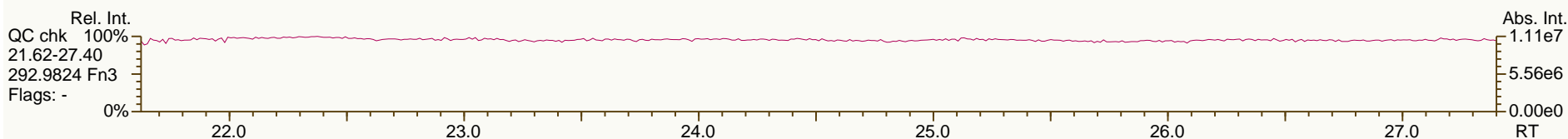
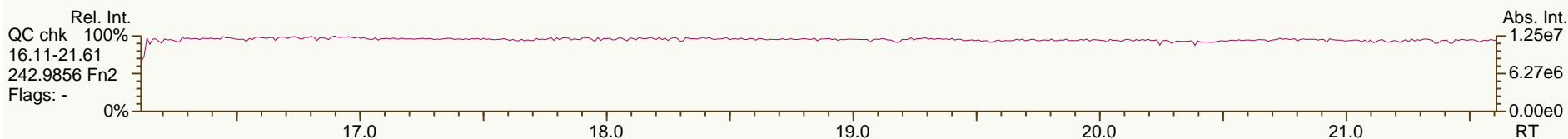
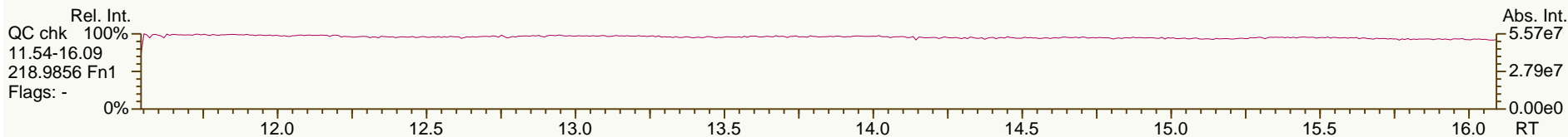


Lab ID: - Ax2 Detail			Processed: 2-Apr-2014 13:01			
Lab ID:	CS3_140324_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014				
Acquired:	24-MAR-2014 13:40					
Datafile:	140324S04					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	37.95	2.18E+07	1.26 Y	1.24	1.24	-0.4%
PCB-158 233'44'6-HxCB	38.14	2.39E+07	1.26 Y	1.34	1.36	1.1%
PCB-128/166 ...-HxCB	38.88	3.31E+07	1.23 Y	0.93	0.95	1.9%
PCB-159 233'455'-HxCB	39.69	1.94E+07	1.30 Y	1.09	1.12	2.4%
PCB-162 233'4'55'-HxCB	39.93	1.94E+07	1.27 Y	1.08	1.12	3.2%
PCB-188 22'34'566'-HpCB	35.60	2.75E+07	1.05 Y	1.10	-	-
PCB-179 22'33'566'-HpCB	35.88	2.56E+07	1.04 Y	1.01	1.03	2.0%
PCB-184 22'344'66'-HpCB	36.34	2.45E+07	1.07 Y	1.02	0.99	-2.3%
PCB-176 22'33'466'-HpCB	36.64	2.75E+07	1.07 Y	1.08	1.12	2.9%
PCB-186 22'34566'-HpCB	37.04	2.57E+07	1.04 Y	1.02	1.04	1.8%
PCB-178 22'33'55'6-HpCB	38.17	1.89E+07	1.06 Y	0.75	0.77	1.9%
PCB-175 22'33'45'6-HpCB	38.72	1.57E+07	1.04 Y	0.99	1.04	5.3%
PCB-187 22'34'55'6-HpCB	38.95	1.66E+07	1.05 Y	1.05	1.10	5.6%
PCB-182 22'344'56'-HpCB	39.13	1.69E+07	1.01 Y	1.08	1.13	4.5%
PCB-183 22'344'5'6-HpCB	39.47	1.72E+07	1.05 Y	1.07	1.14	6.5%
PCB-185 22'3455'6-HpCB	39.56	1.62E+07	1.05 Y	0.97	1.08	11.6%
PCB-174 22'33'456'-HpCB	39.67	1.38E+07	1.05 Y	0.89	0.92	3.9%
PCB-177 22'33'45'6'-HpCB	40.05	1.39E+07	1.01 Y	0.87	0.93	6.2%
PCB-181 22'344'56-HpCB	40.39	1.57E+07	1.00 Y	0.98	1.05	6.1%
PCB-171/173 ...-HpCB	40.58	2.79E+07	1.03 Y	0.87	0.93	6.7%
PCB-172 22'33'455'-HpCB	41.93	1.39E+07	1.03 Y	0.88	0.93	5.7%
PCB-192 233'455'6-HpCB	42.18	1.80E+07	1.03 Y	1.16	1.20	3.2%
PCB-180/193 ...-HpCB	42.46	3.38E+07	1.05 Y	1.08	1.13	4.5%
PCB-191 233'44'5'6-HpCB	42.79	1.84E+07	1.04 Y	1.17	1.23	4.4%
PCB-170 22'33'44'5-HpCB	43.57	1.33E+07	1.03 Y	1.03	1.06	3.2%
PCB-190 233'44'56-HpCB	44.02	1.78E+07	1.01 Y	1.44	1.42	-1.8%
PCB-202 22'33'55'66'-OcCB	40.15	1.76E+07	0.87 Y	0.83	-	-
PCB-201 22'33'45'66'-OcCB	40.94	1.97E+07	0.88 Y	0.88	0.90	1.3%
PCB-204 22'344'566'-OcCB	41.52	1.84E+07	0.92 Y	0.86	0.84	-2.6%
PCB-197 22'33'44'66'-OcCB	41.71	2.07E+07	0.89 Y	0.93	0.94	1.1%
PCB-200 22'33'4566'-OcCB	41.80	1.82E+07	0.89 Y	0.86	0.83	-3.9%
PCB-198/199 ...-OcCB	44.13	2.61E+07	0.87 Y	0.61	0.59	-2.3%
PCB-196 22'33'44'56'-OcCB	44.71	1.34E+07	0.88 Y	0.62	0.61	-2.1%
PCB-203 22'344'55'6-OcCB	44.88	1.38E+07	0.88 Y	0.65	0.62	-4.5%
PCB-195 22'33'44'56-OcCB	46.01	1.02E+07	0.92 Y	0.81	0.93	14.4%
PCB-194 22'33'44'55'-OcCB	47.96	1.04E+07	0.89 Y	0.89	0.95	7.1%
PCB-205 233'44'55'6-OcCB	48.36	1.26E+07	0.90 Y	1.11	-	-
PCB-208 22'33'455'66'-NoCB	45.80	1.38E+07	0.78 Y	1.01	-	-
PCB-207 22'33'44'566'-NoCB	46.59	1.41E+07	0.79 Y	1.06	1.05	-0.9%
PCB-206 22'33'44'55'6-NoCB	49.83	8.61E+06	0.74 Y	1.01	-	-

SGS ID: CS3\_140324\_PCB\_SA  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

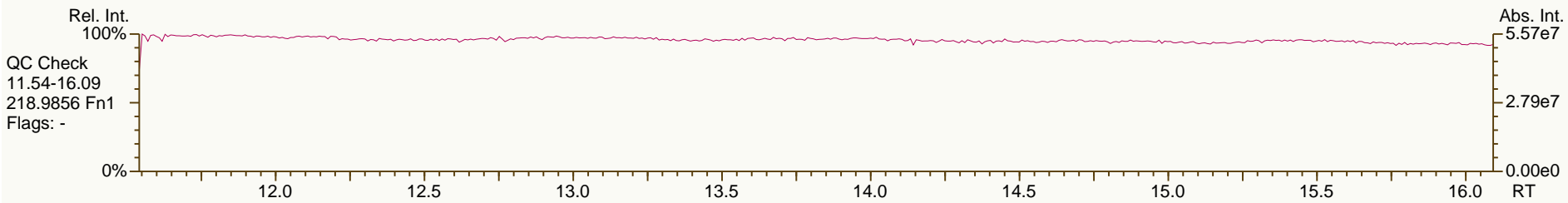
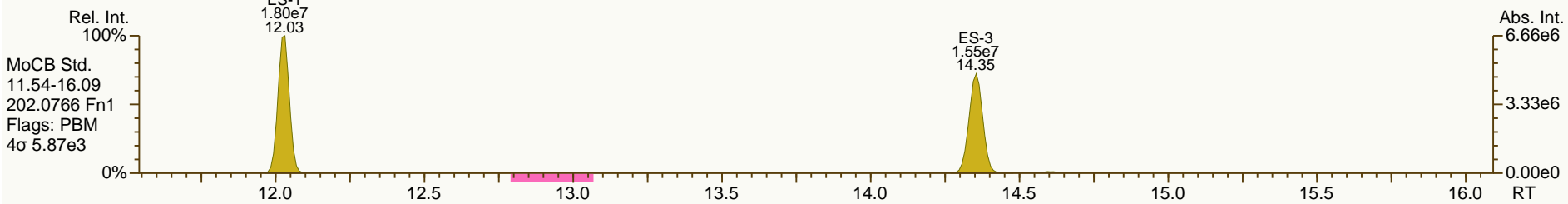
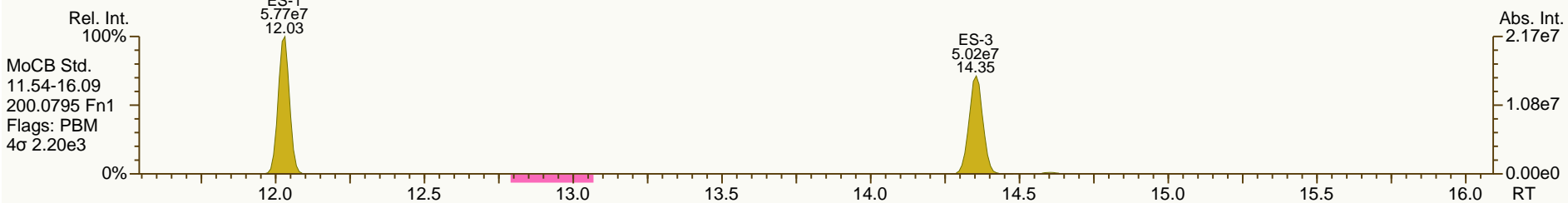
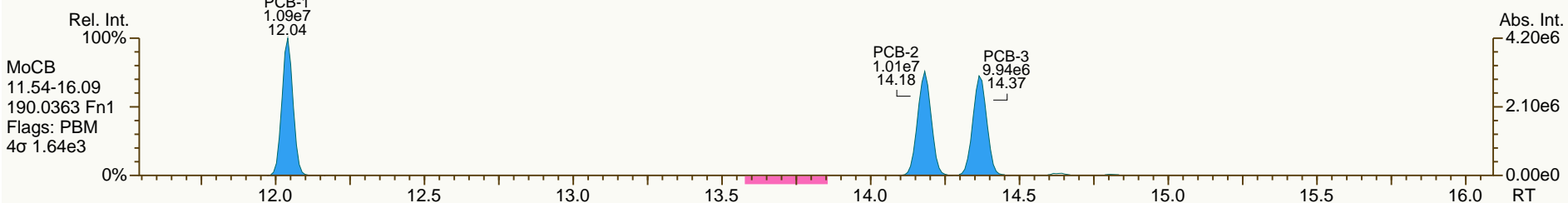
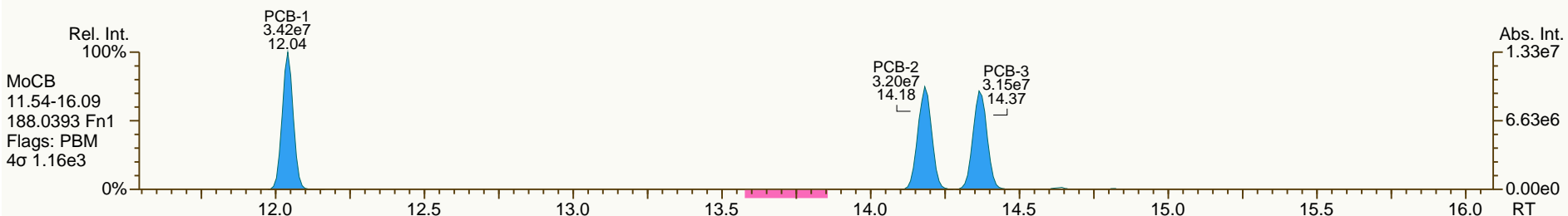
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

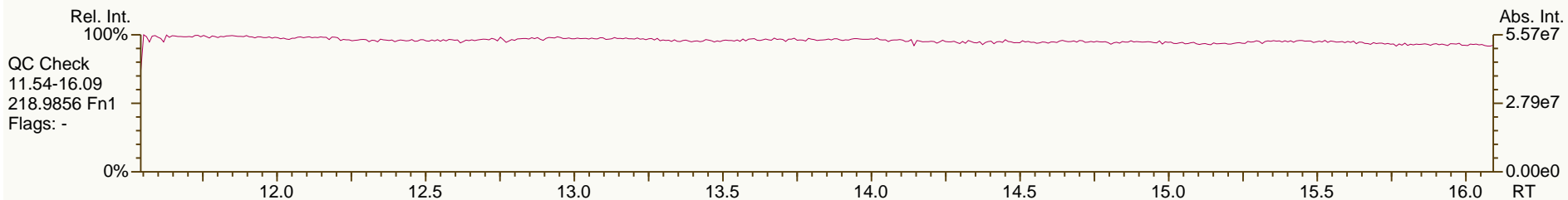
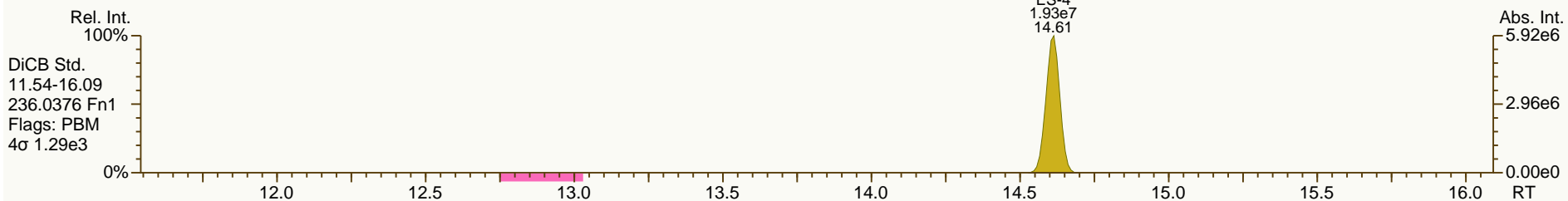
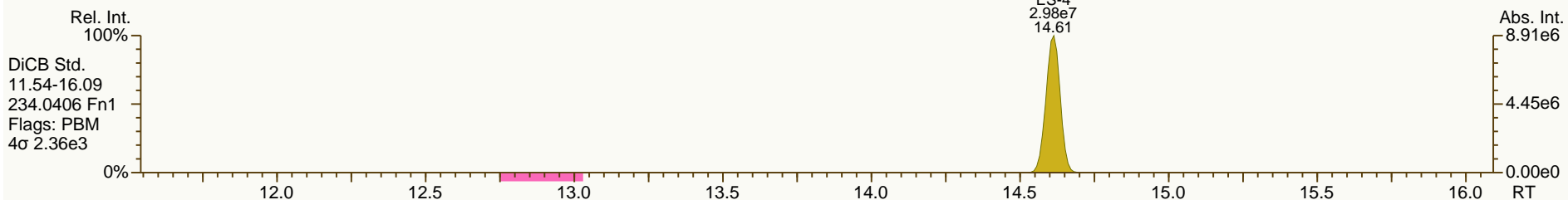
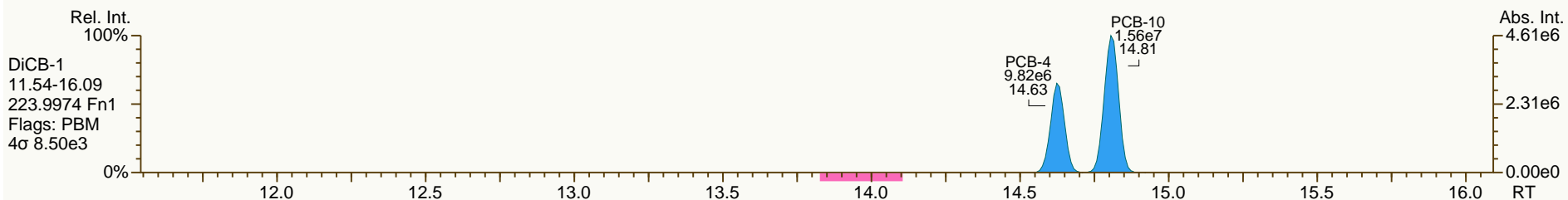
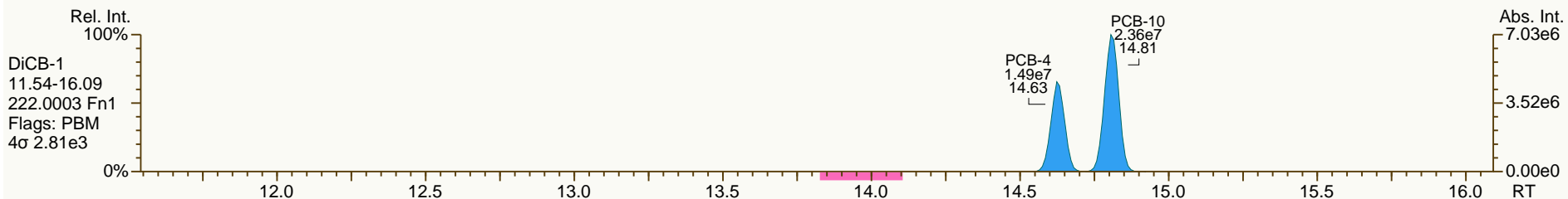
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

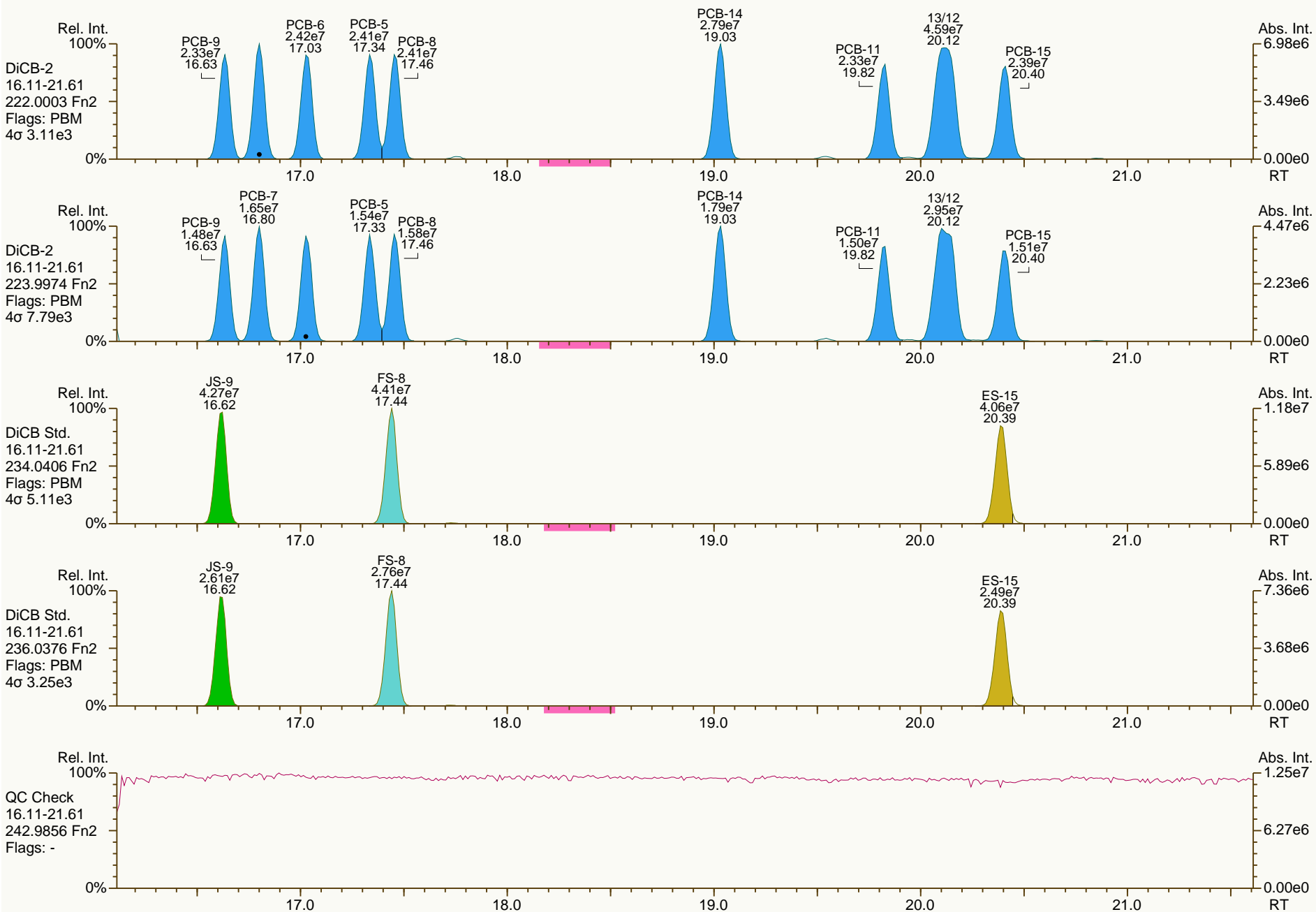
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

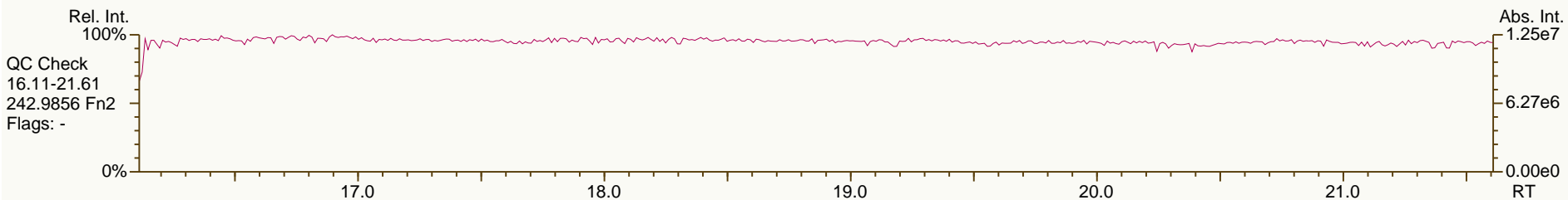
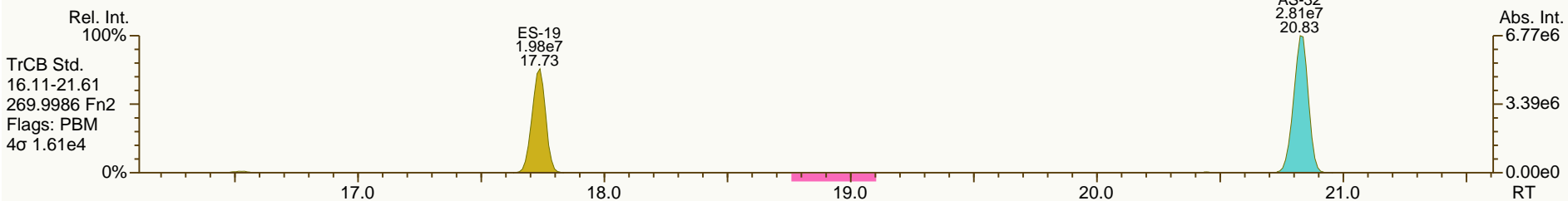
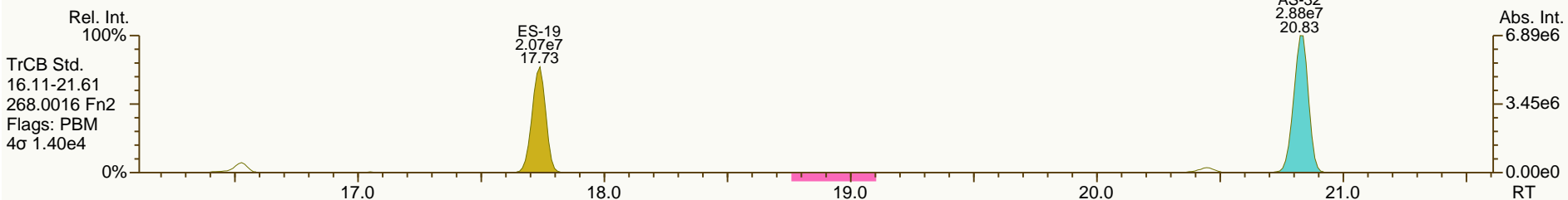
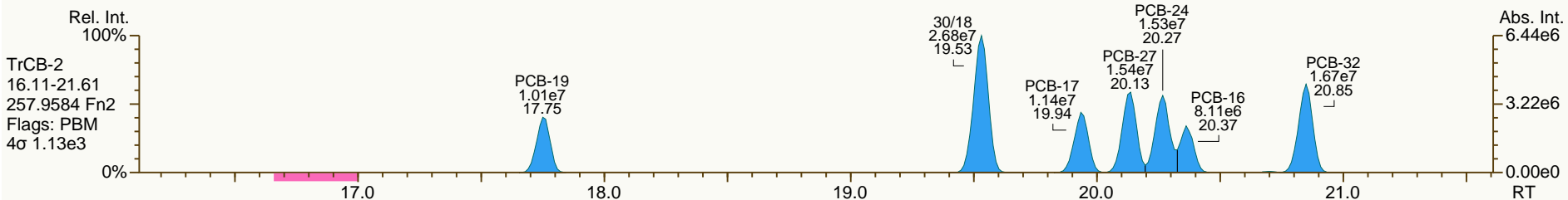
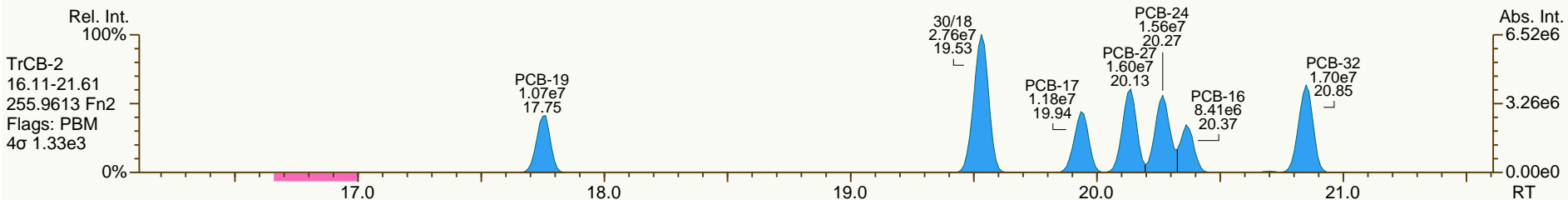
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

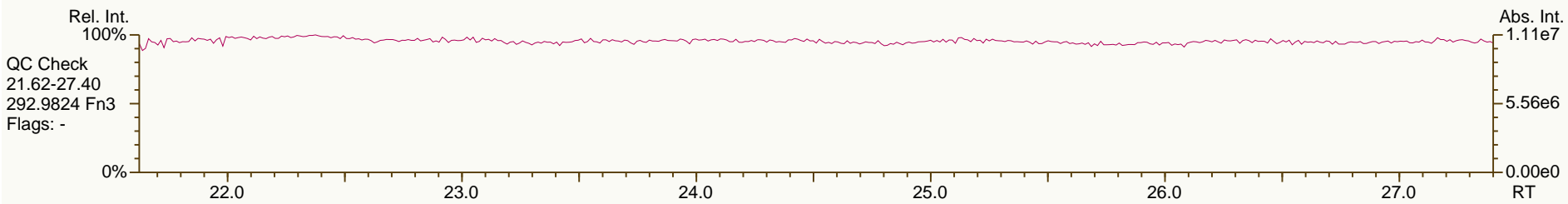
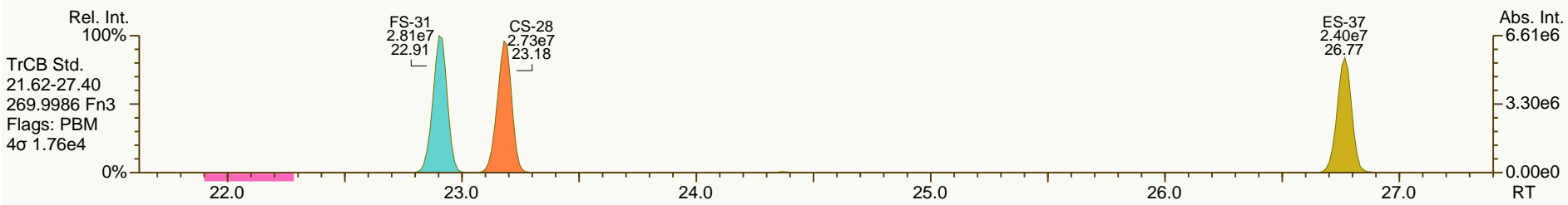
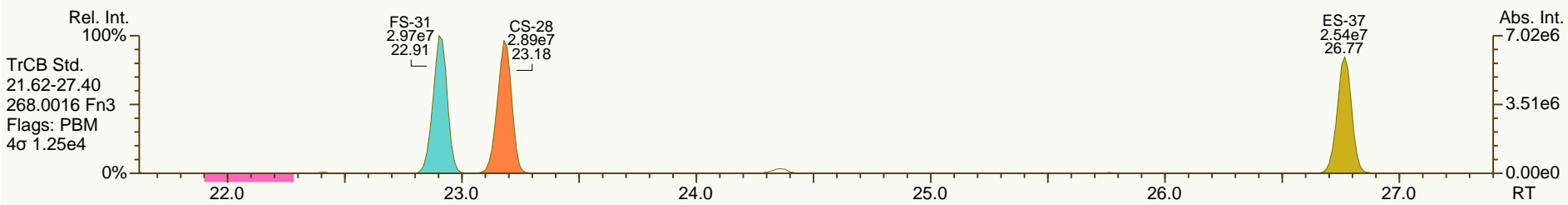
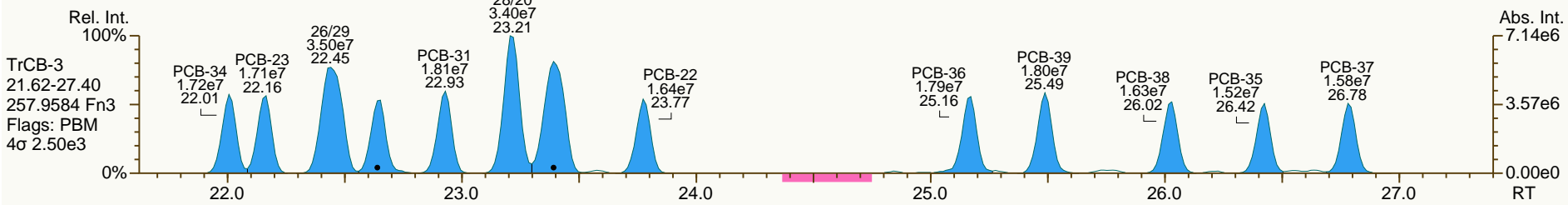
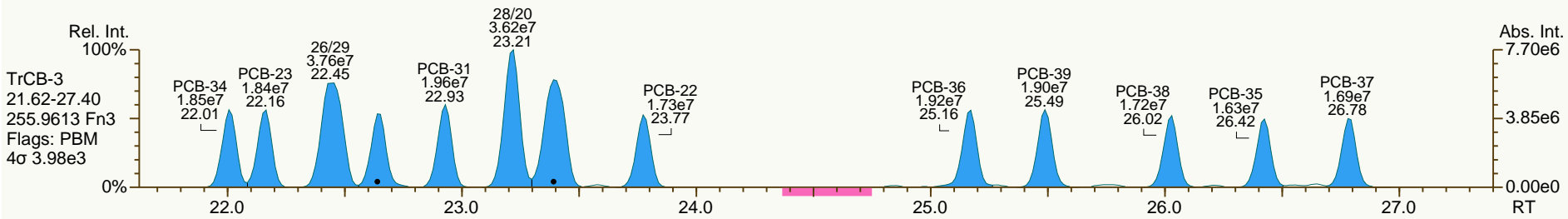
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 User: CTW Datafile: 140324S04



SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

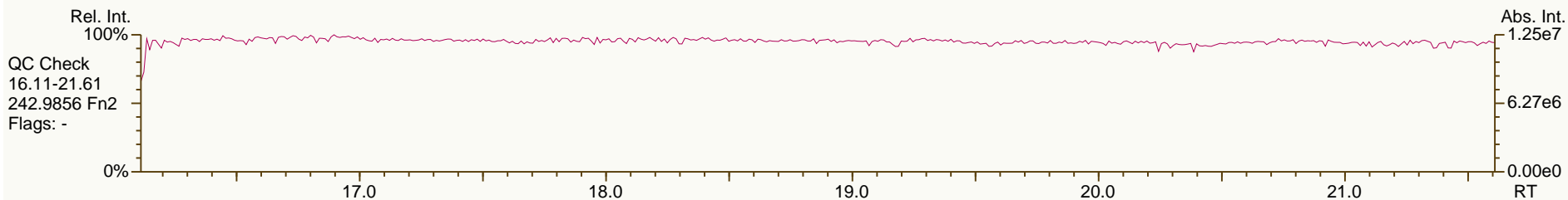
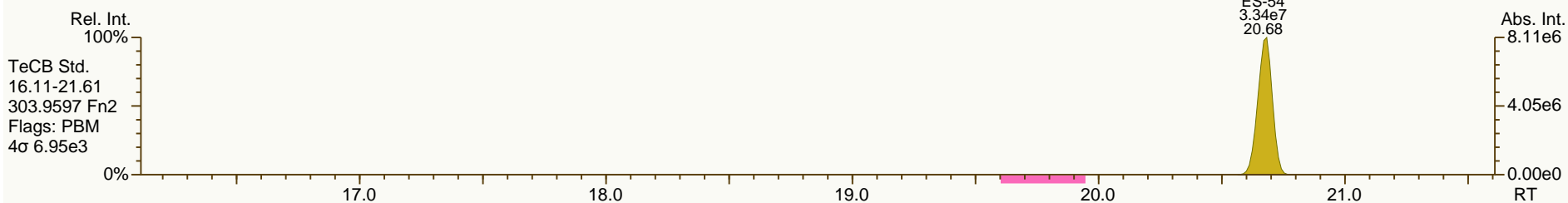
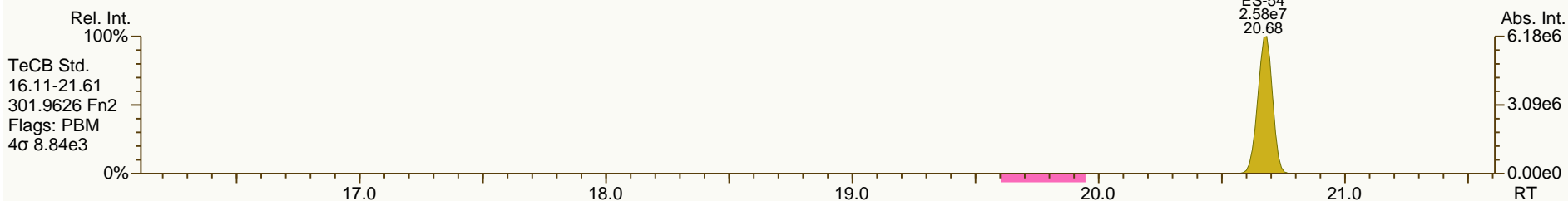
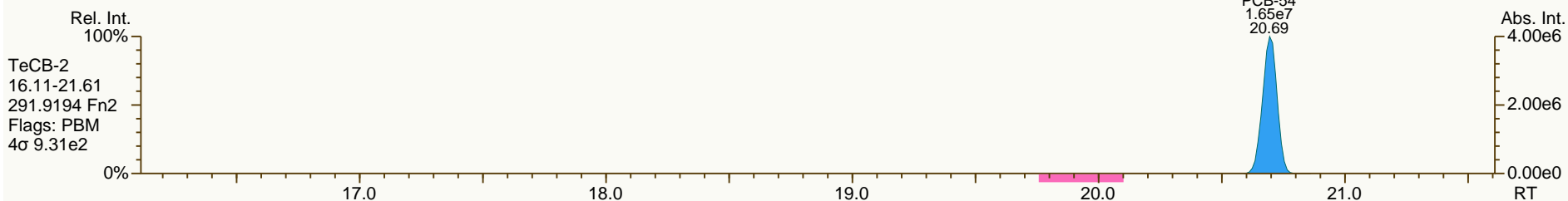
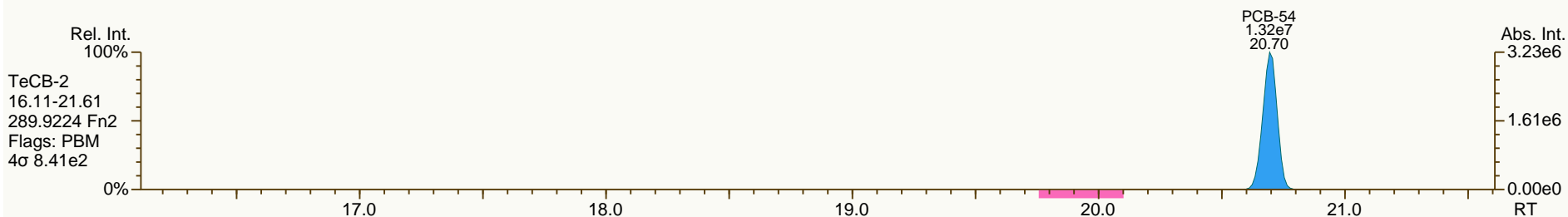
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SGS ID: CS3\_140324\_PCB\_SA  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

Acq: 24-Mar-2014 13:40:36  
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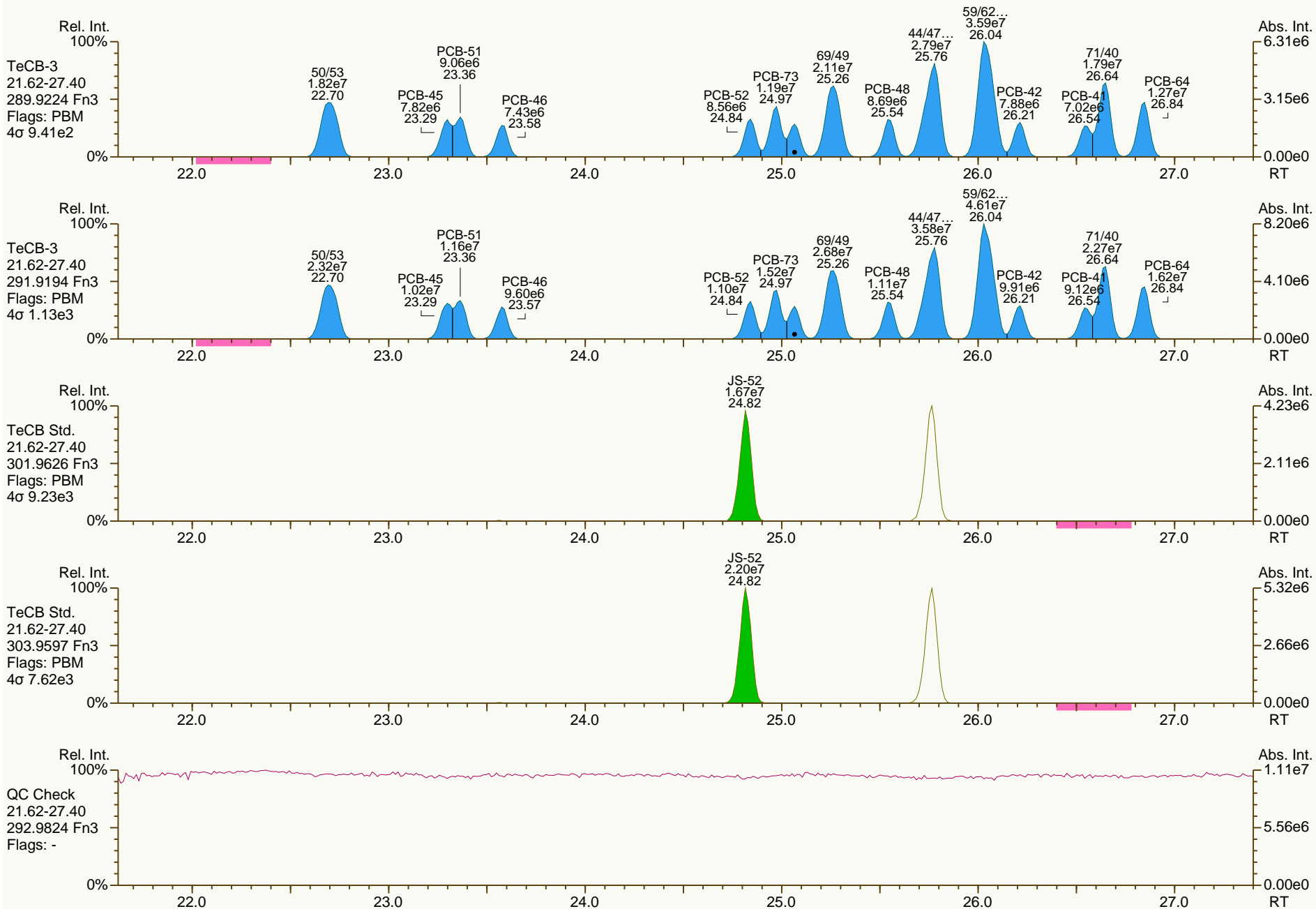




SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

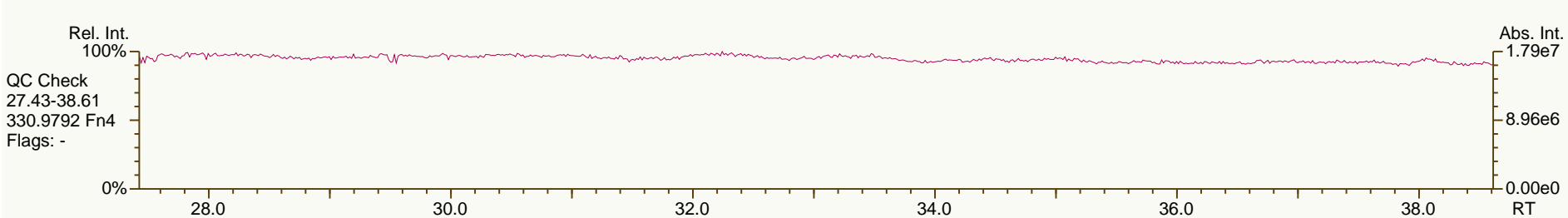
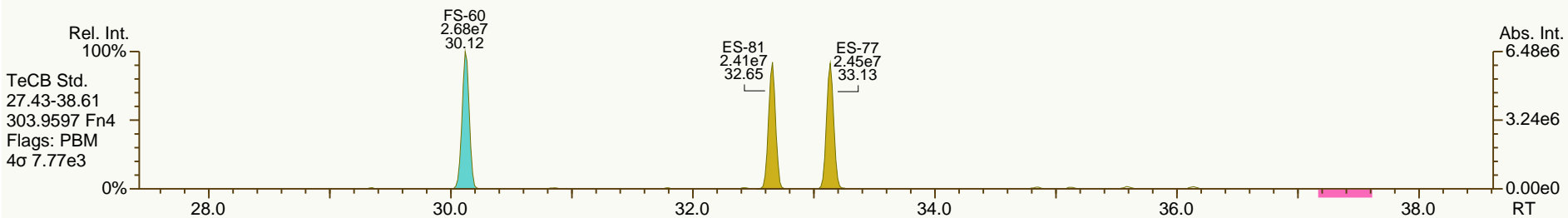
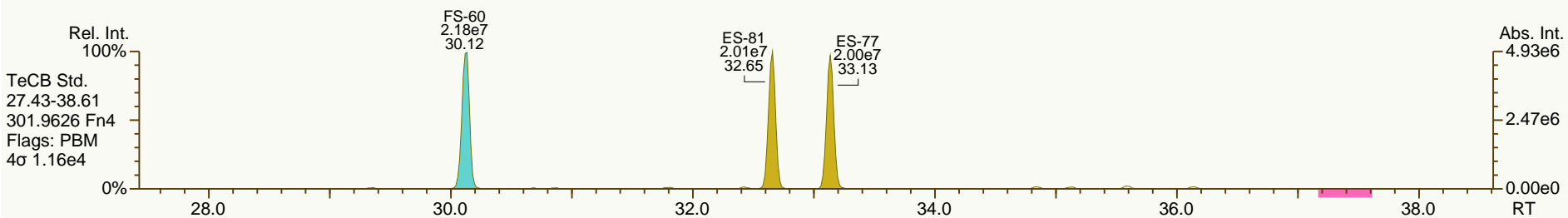
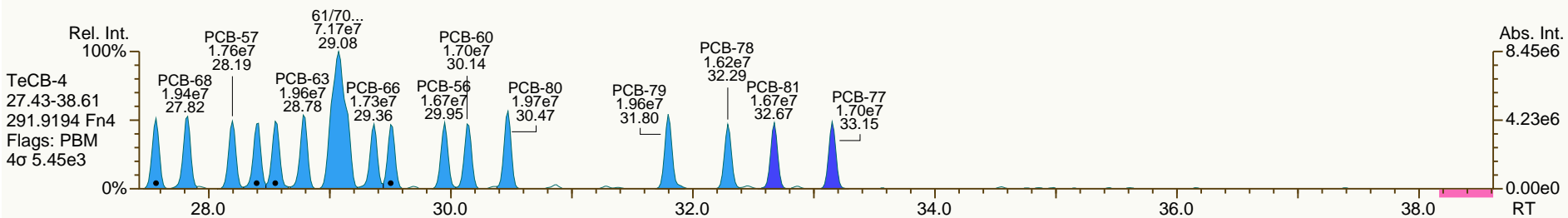
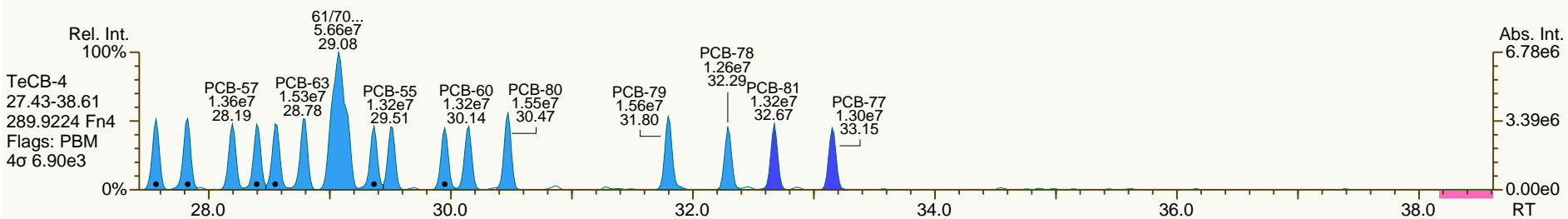
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

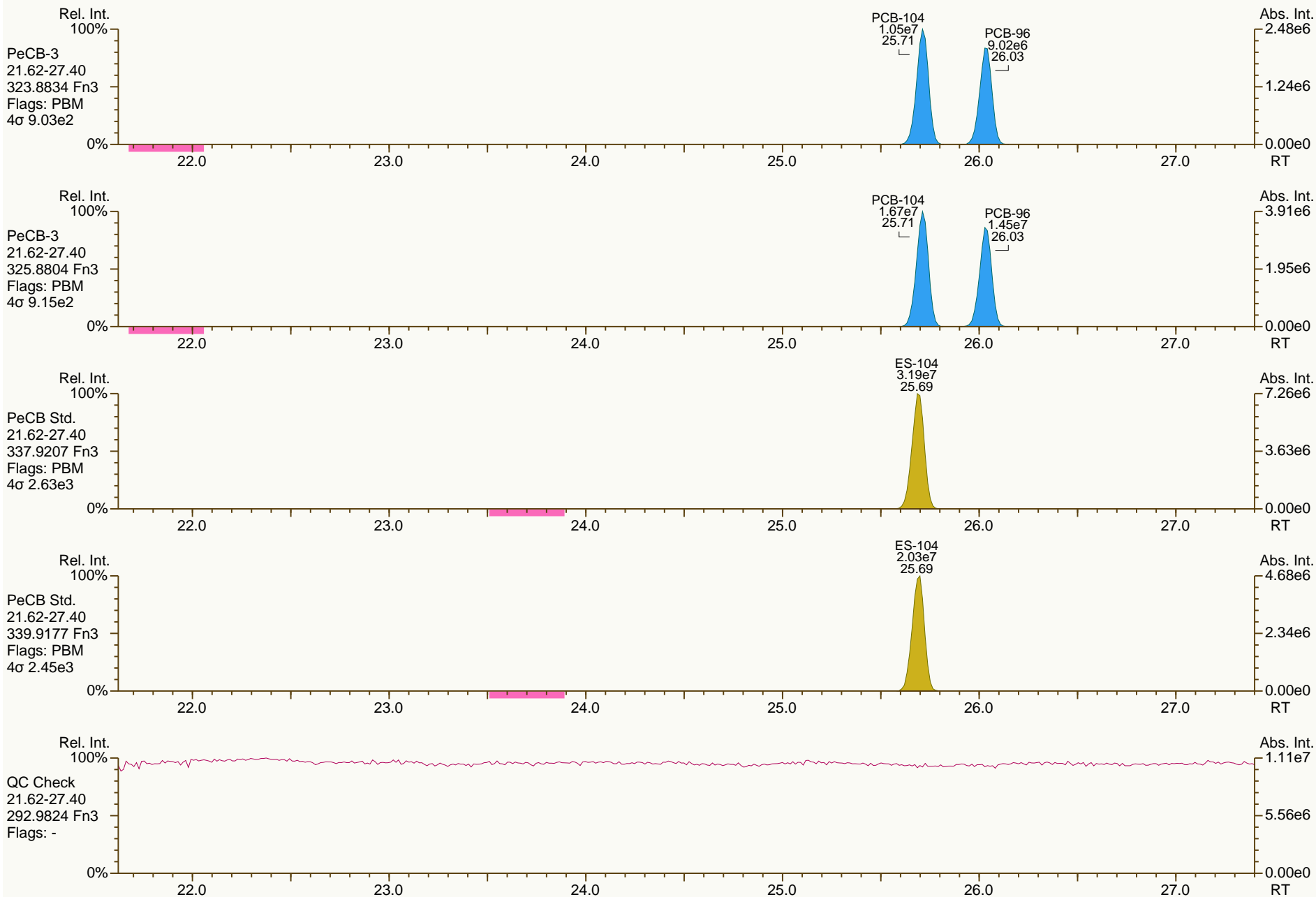
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SGS ID: CS3\_140324\_PCB\_SA  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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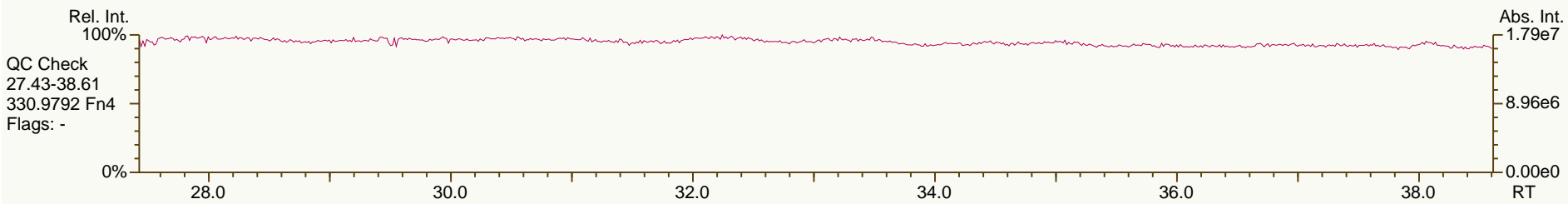
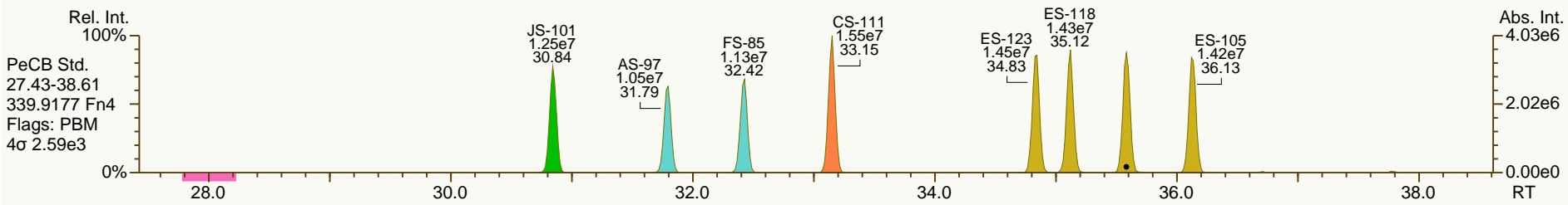
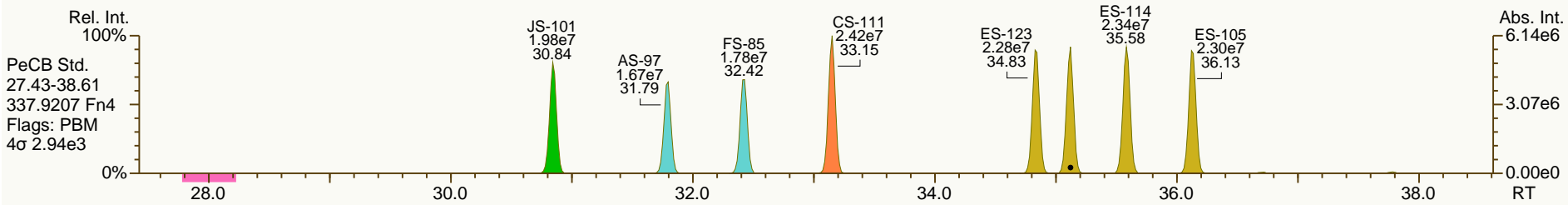
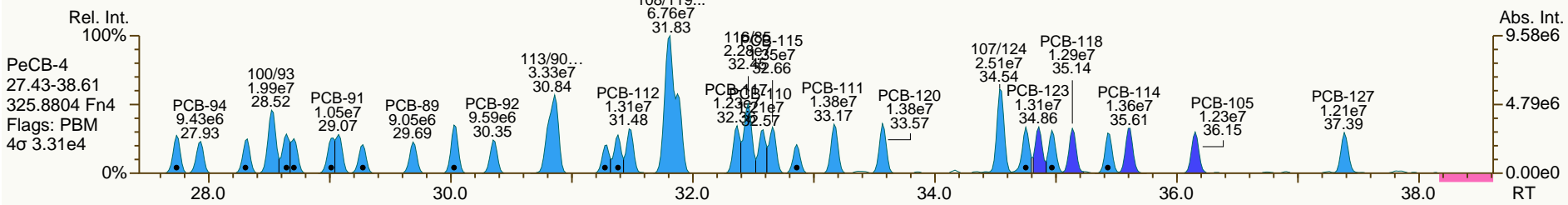
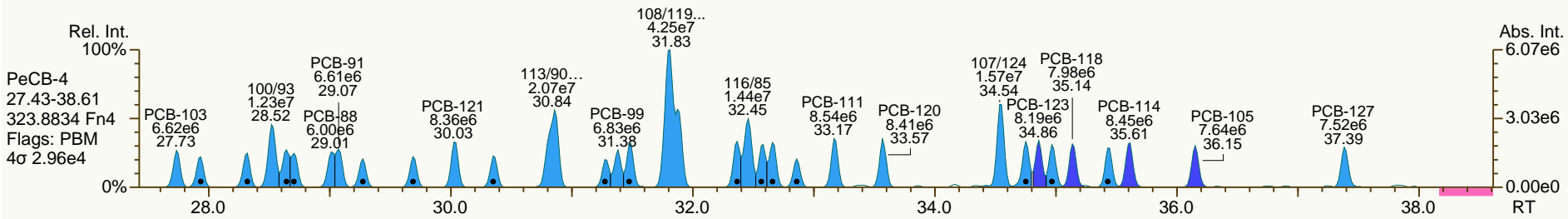
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User: CTW Datafile: 140324S04



SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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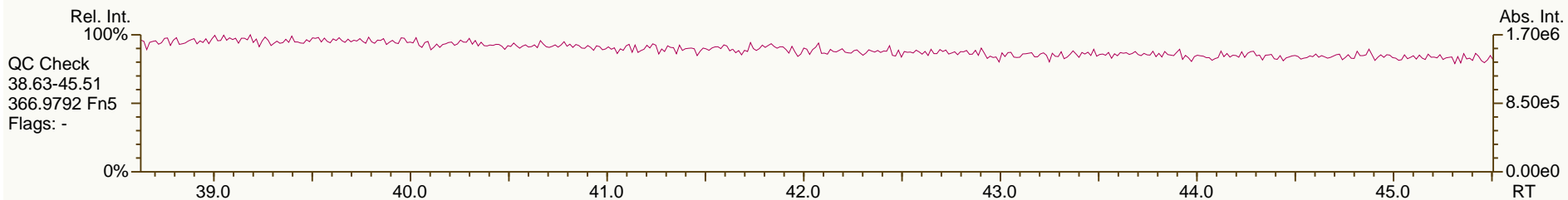
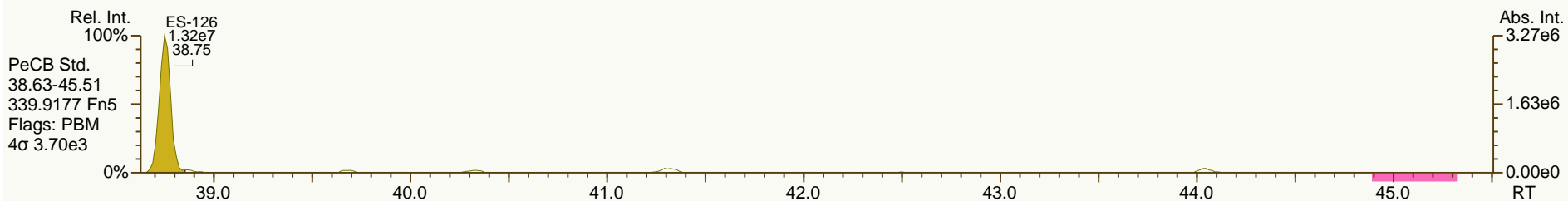
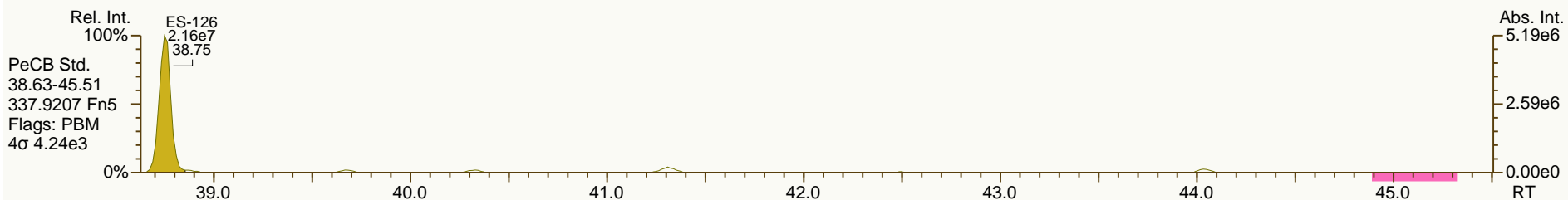
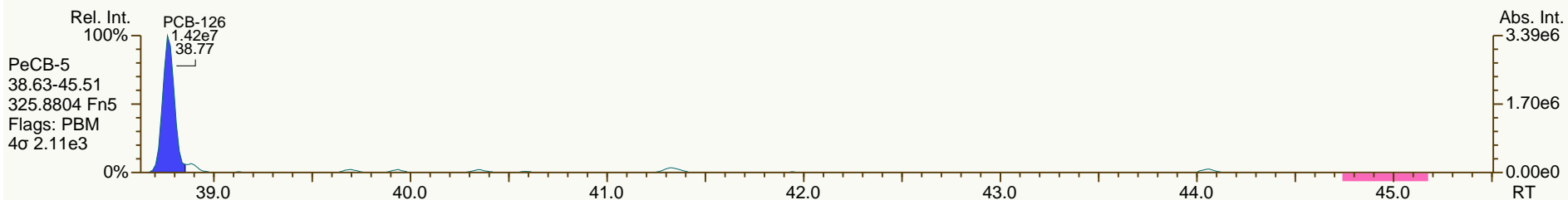
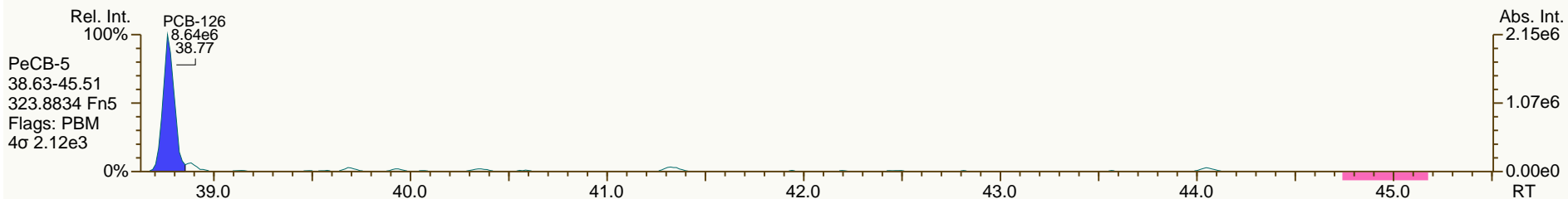
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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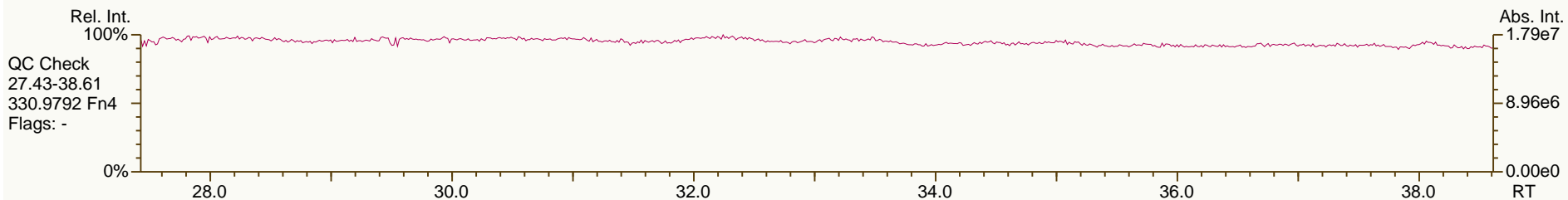
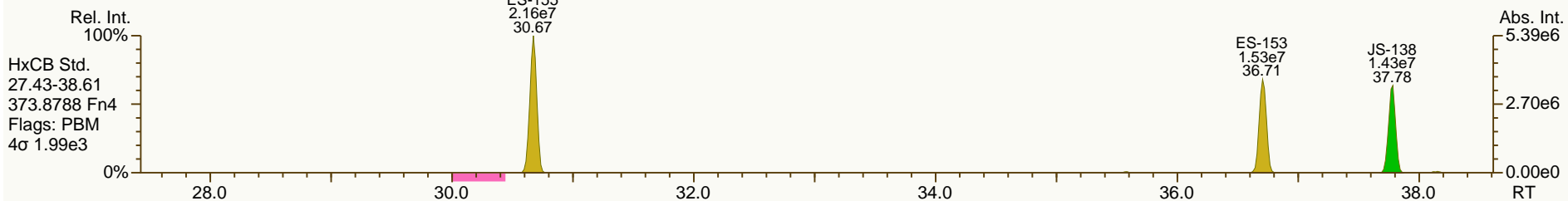
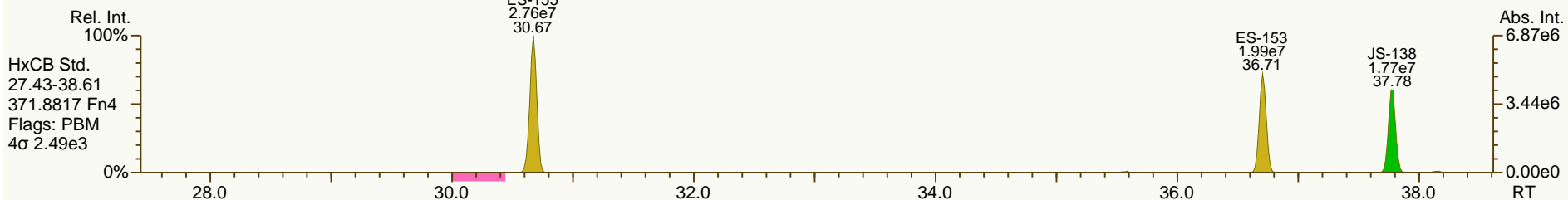
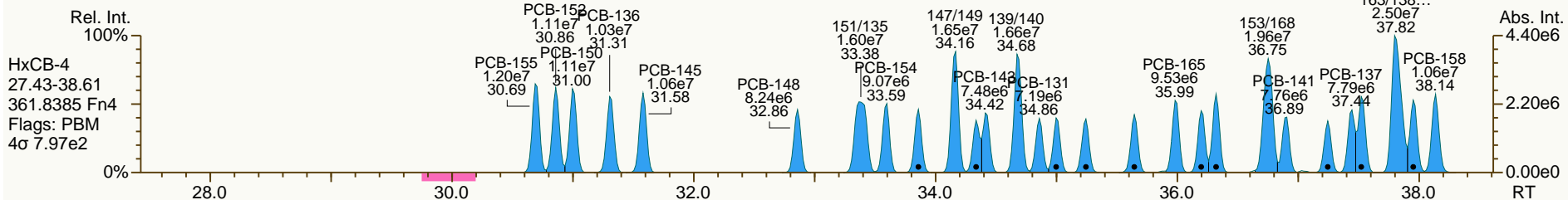
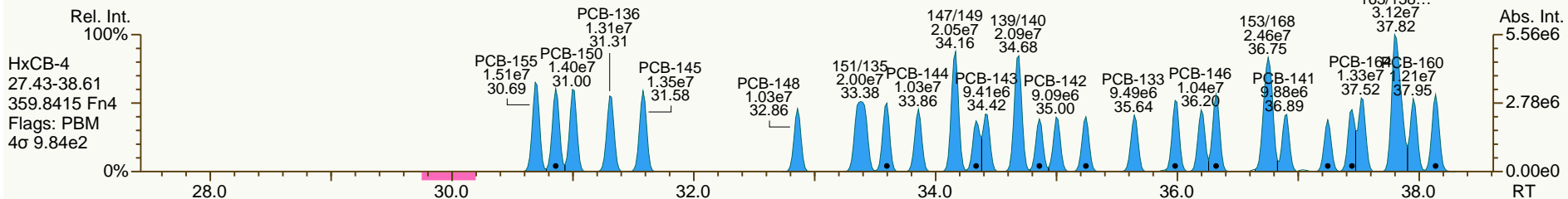
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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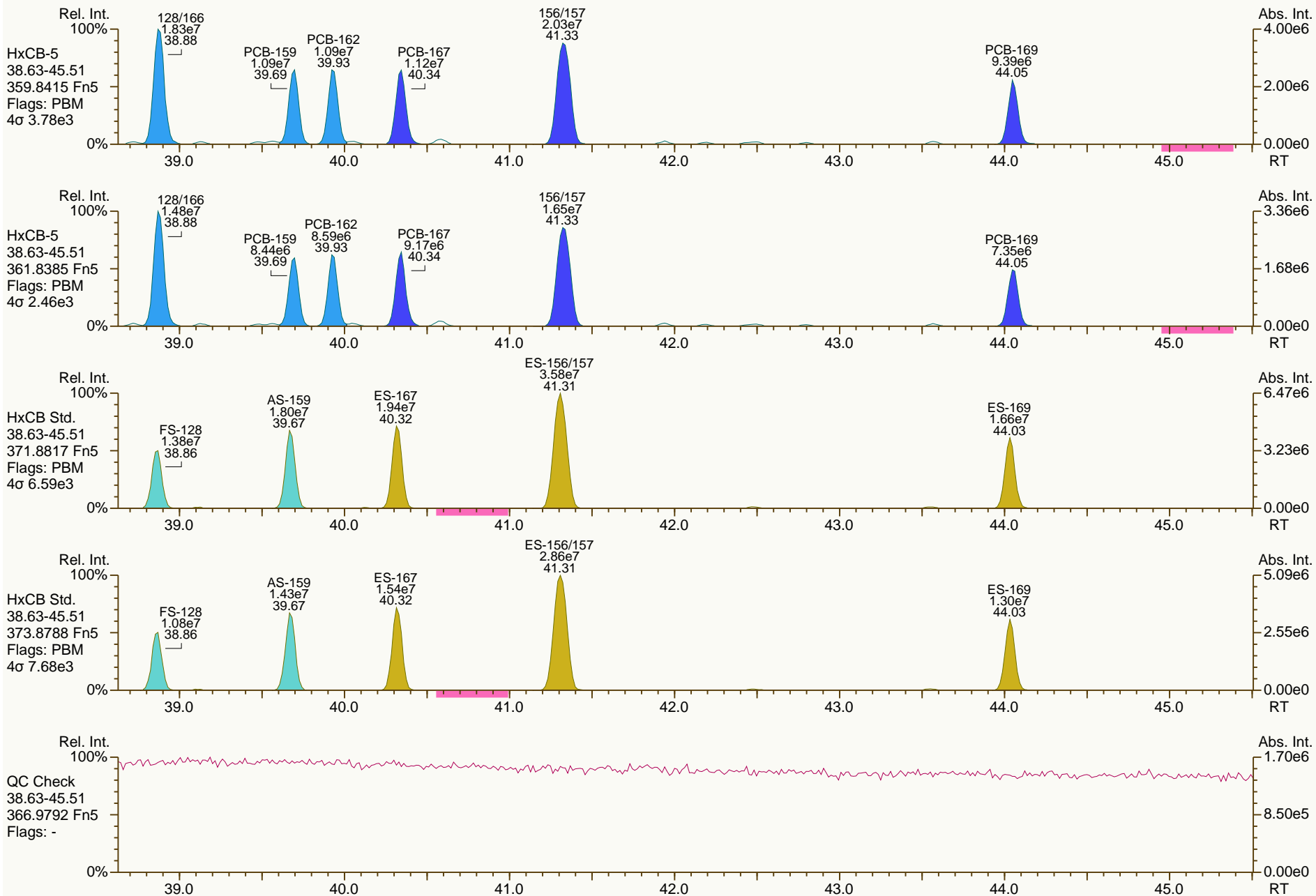
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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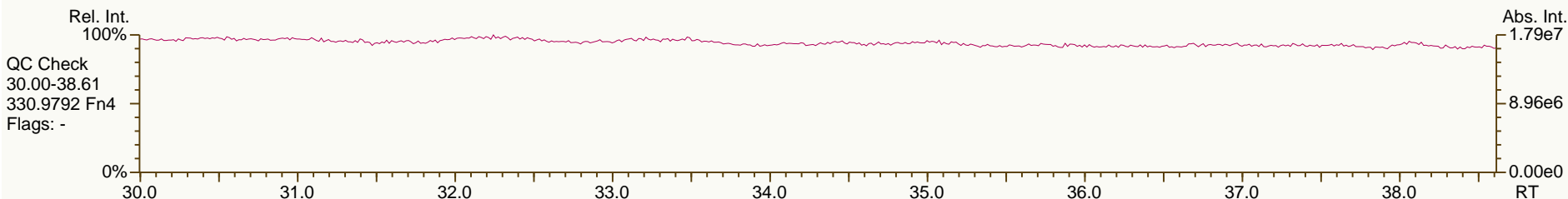
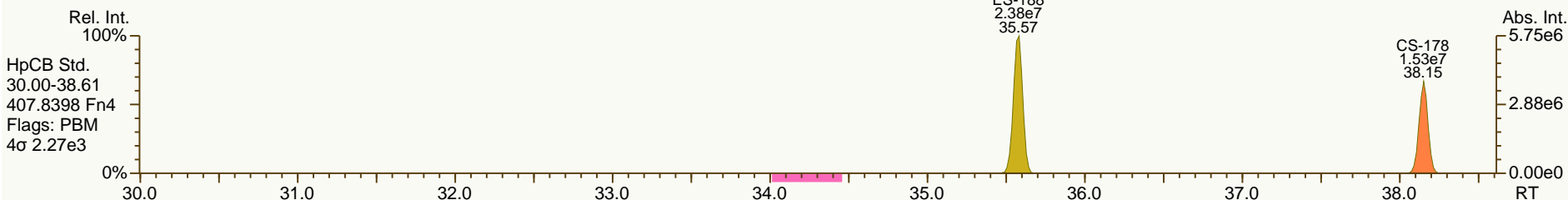
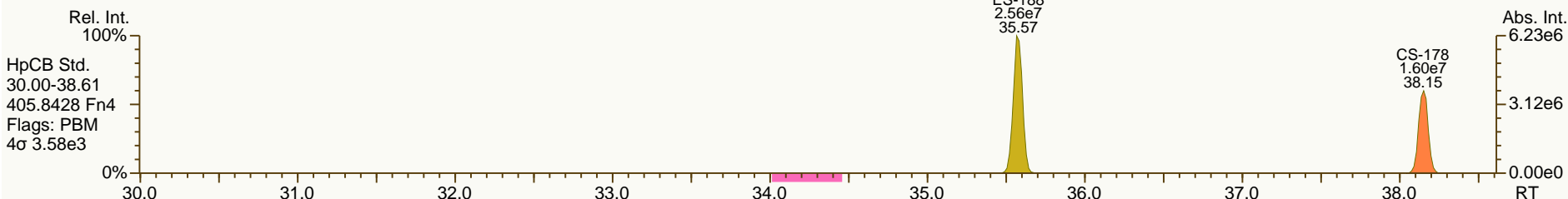
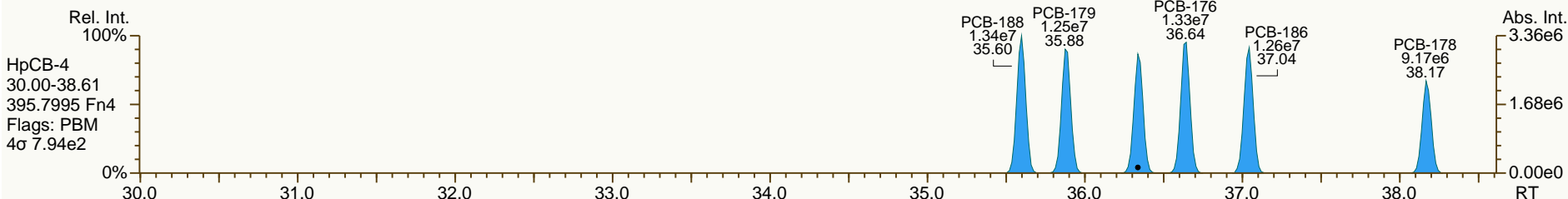
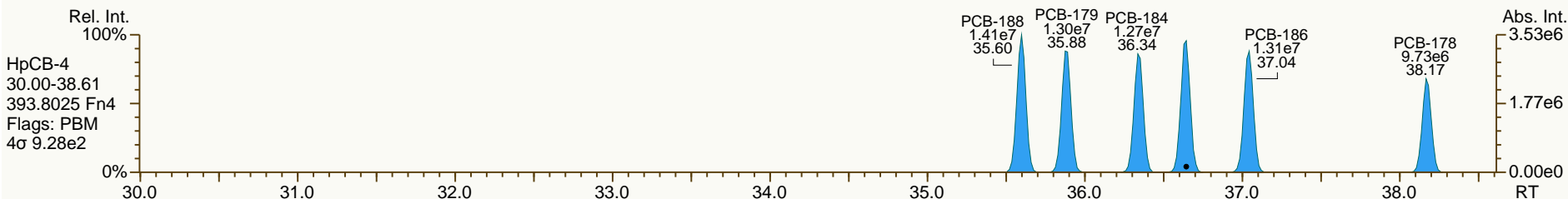
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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Acq: 24-Mar-2014 13:40:36  
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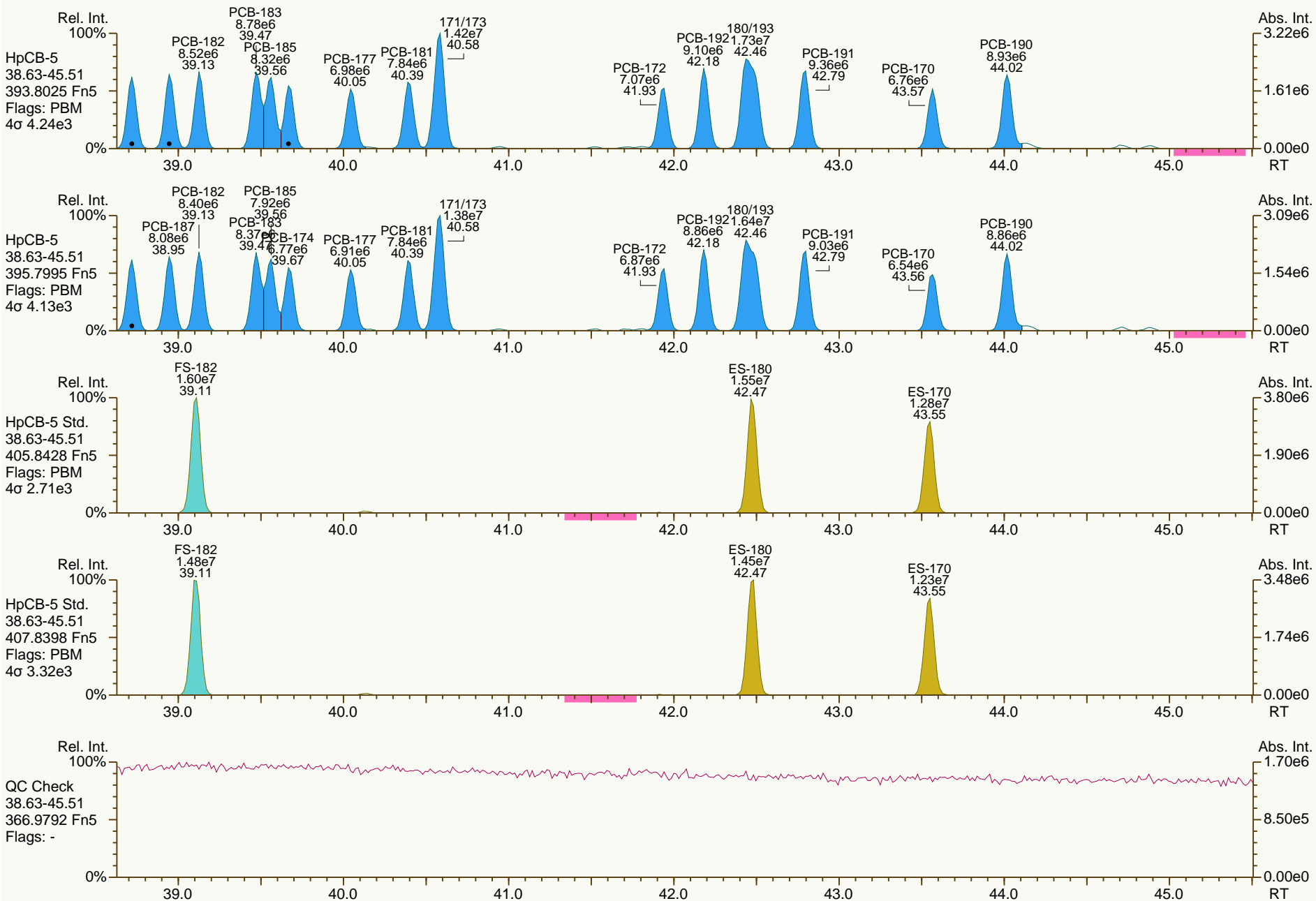




SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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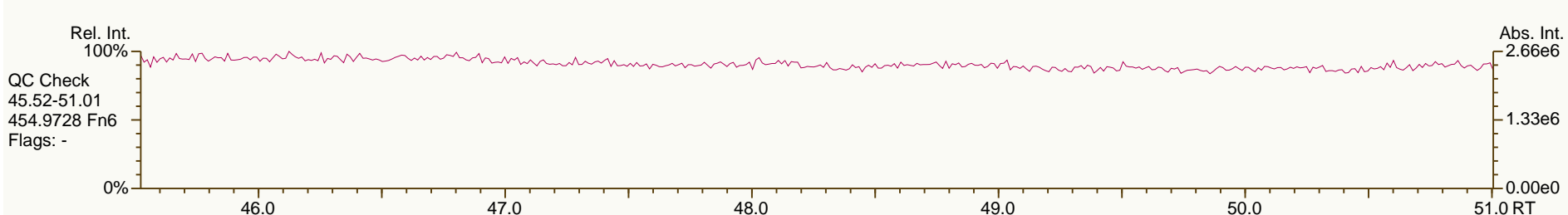
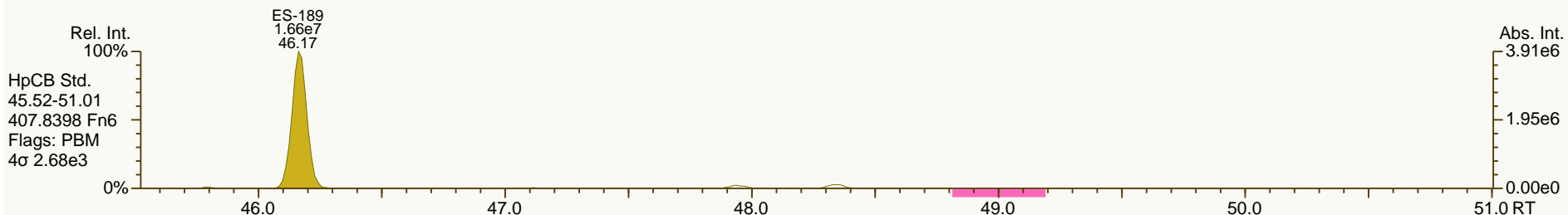
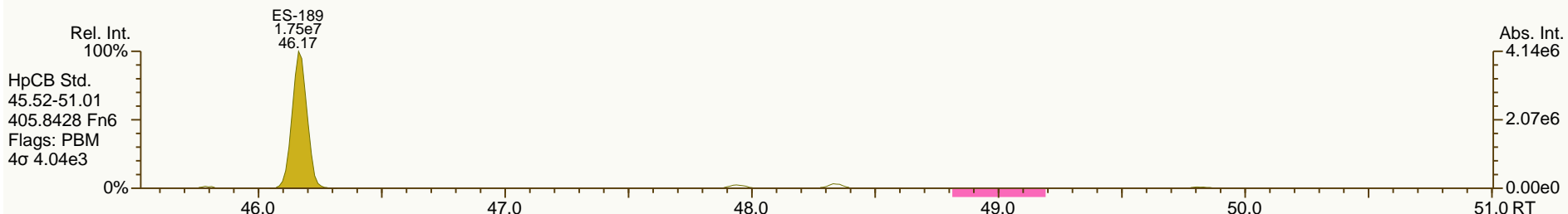
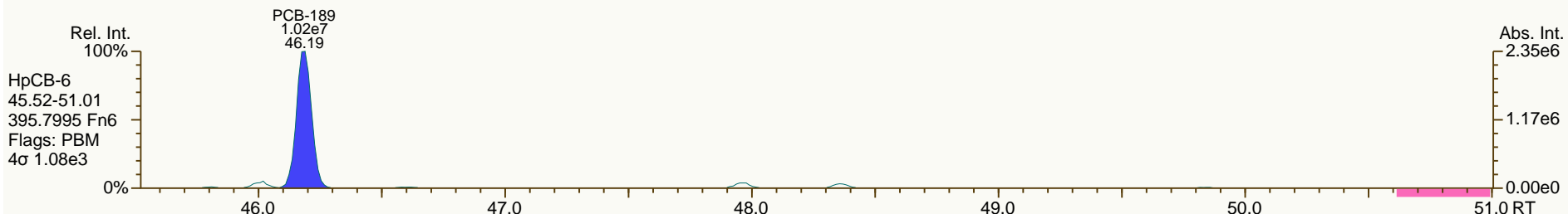
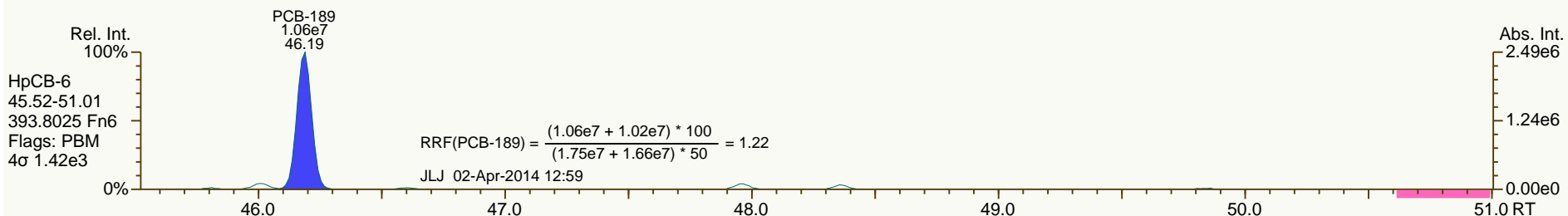
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

Acq: 24-Mar-2014 13:40:36  
 User: CTW Datafile: 140324S04



SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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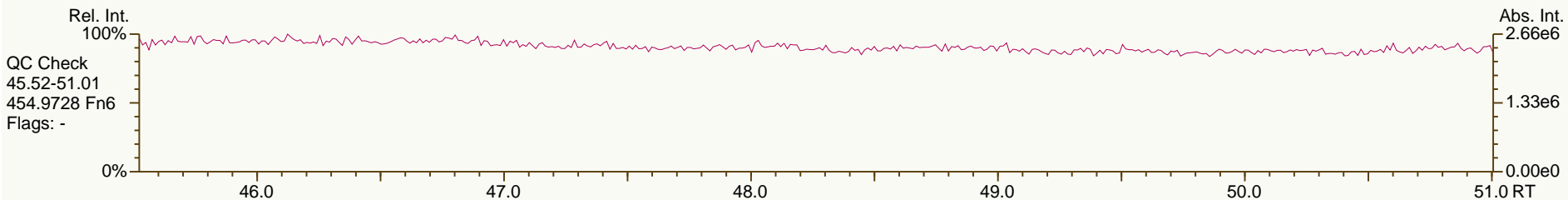
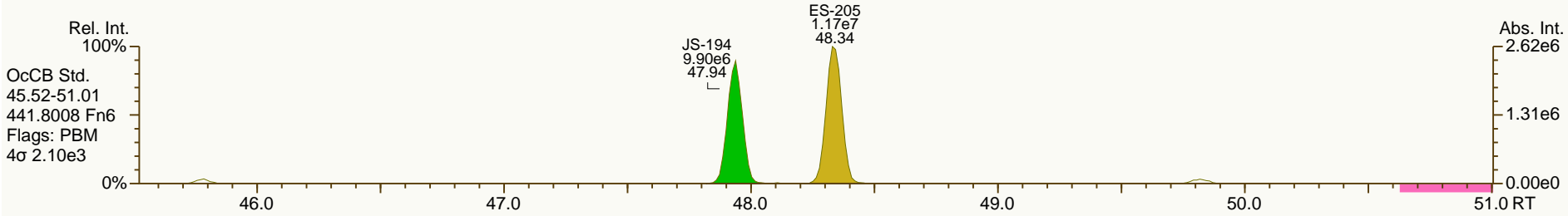
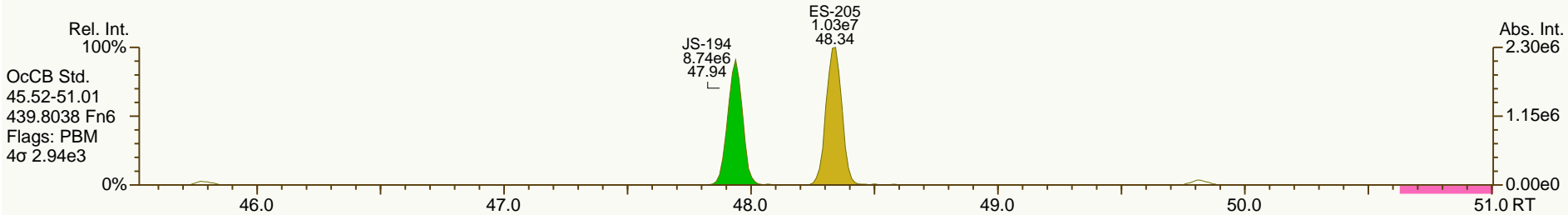
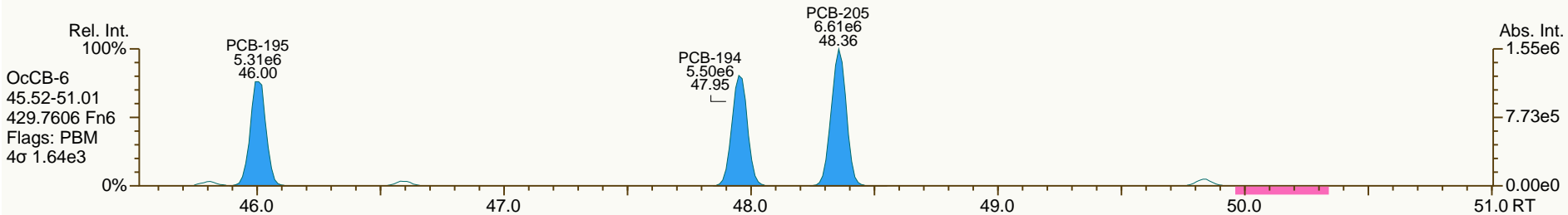
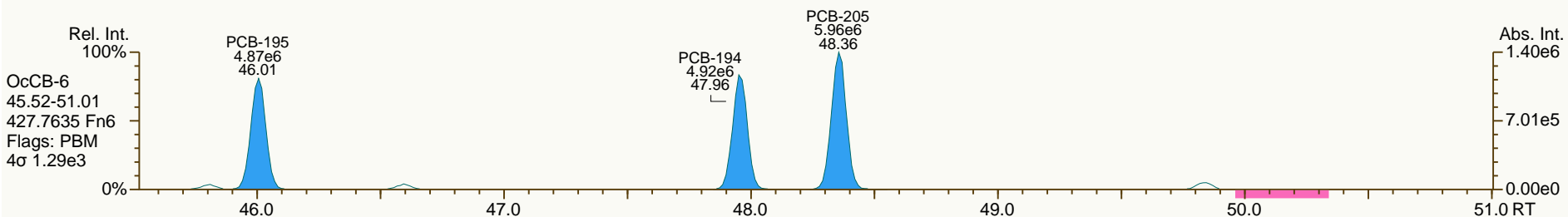
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

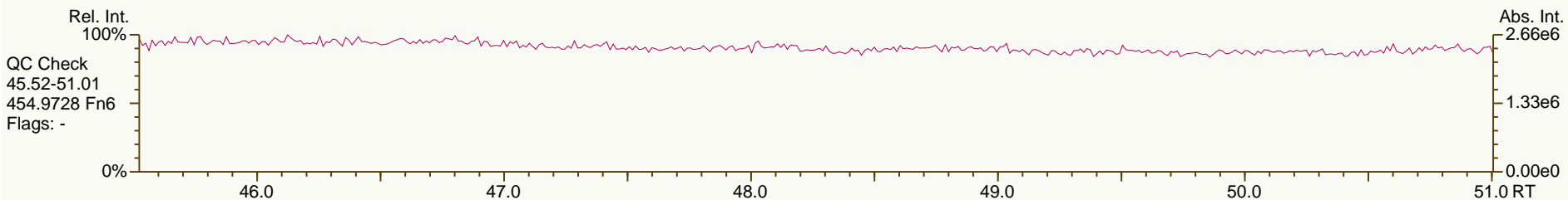
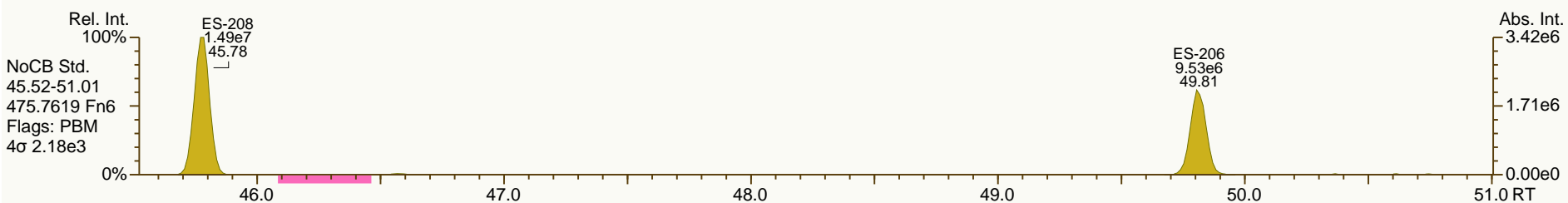
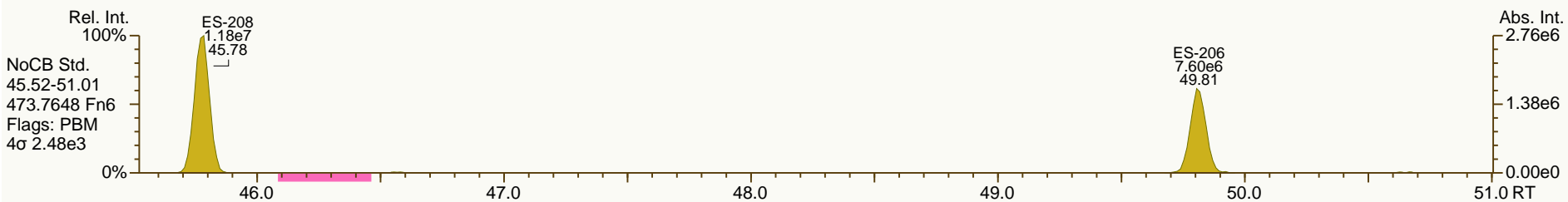
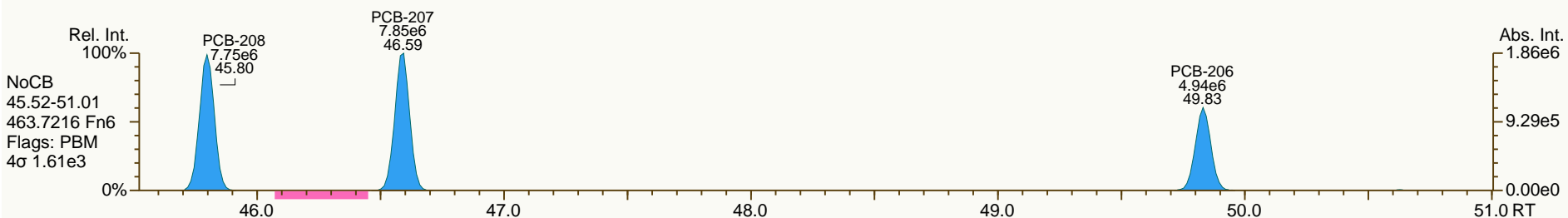
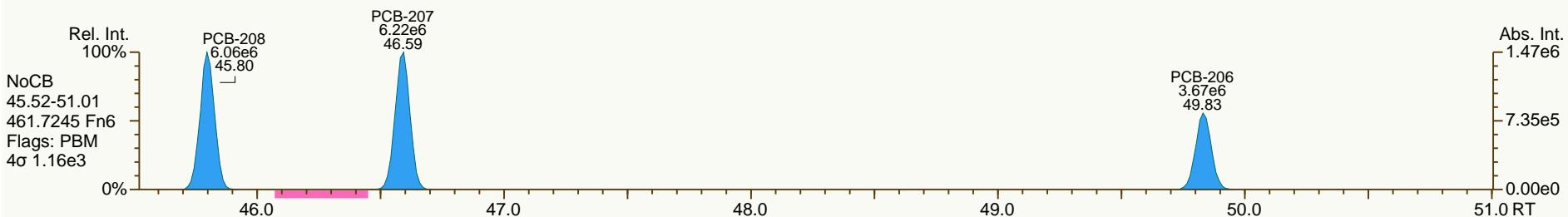
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SGS ID: CS3\_140324\_PCB\_SA  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

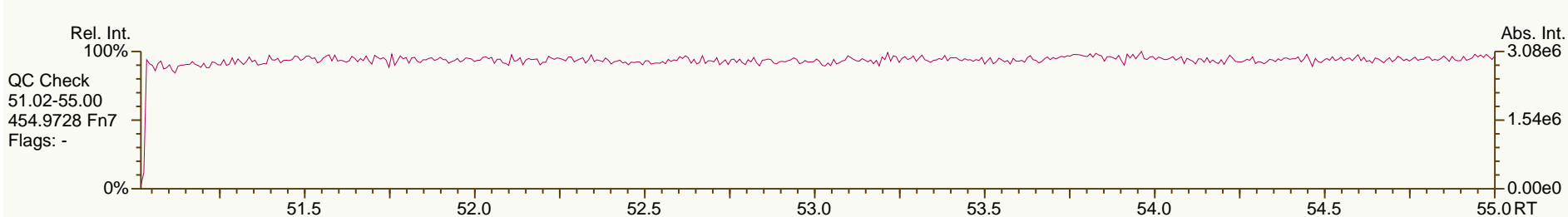
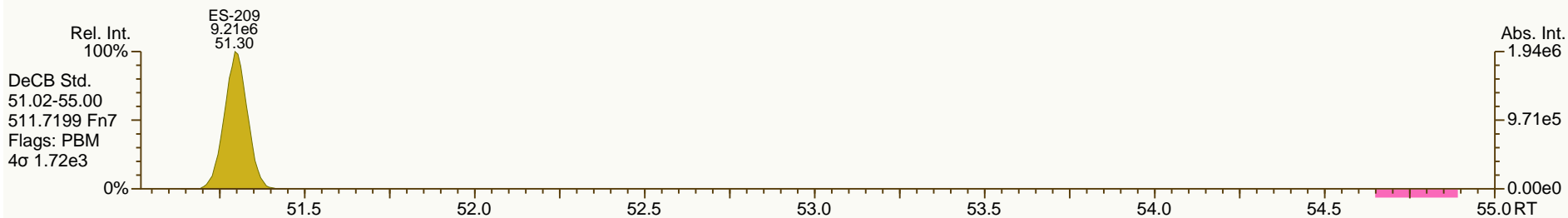
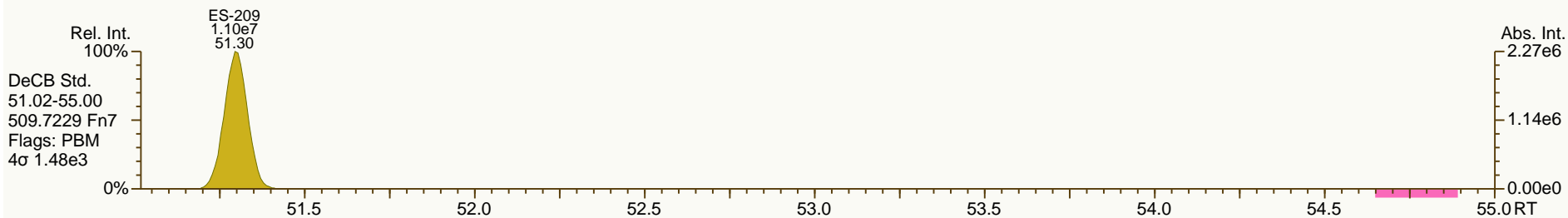
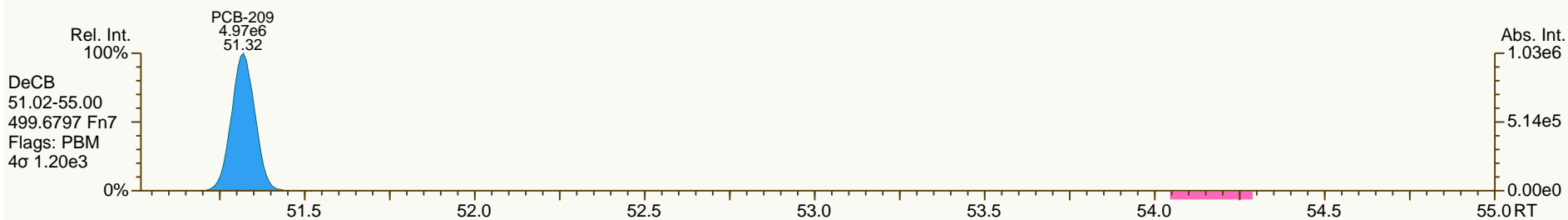
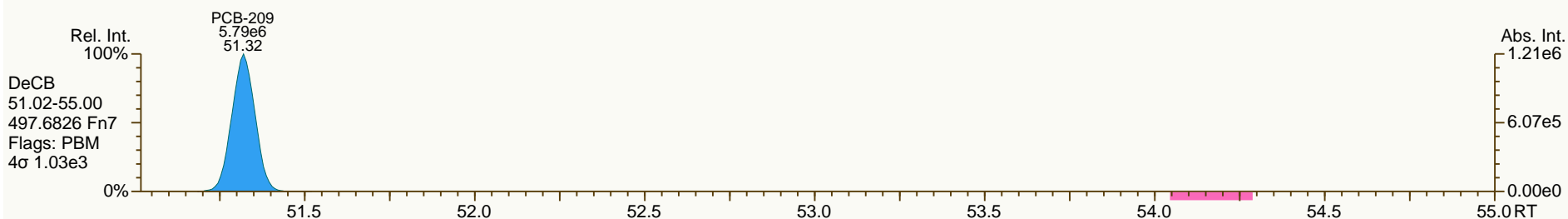
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 User: CTW Datafile: 140324S04



SGS ID: CS3\_140324\_PCB\_SA  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 13

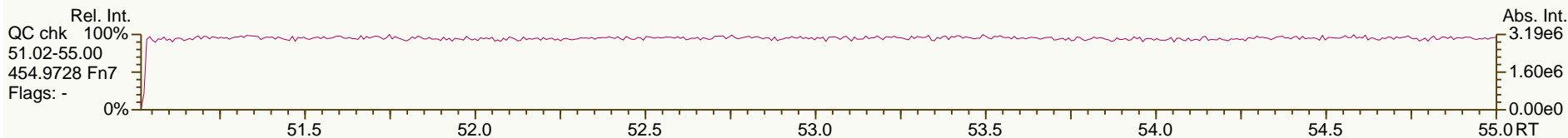
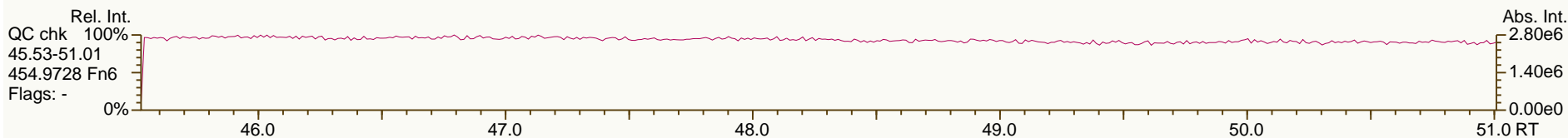
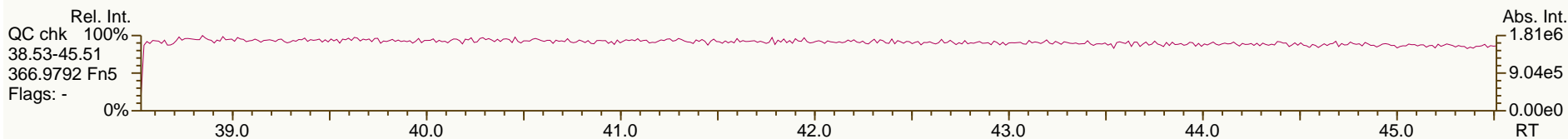
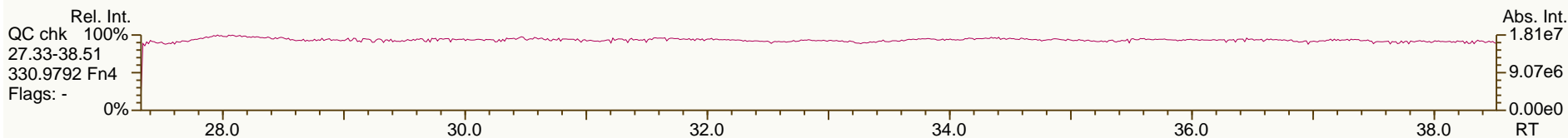
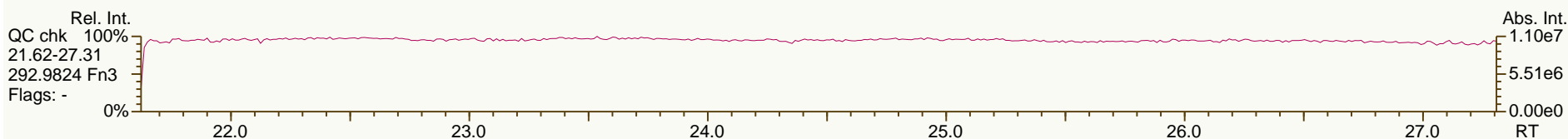
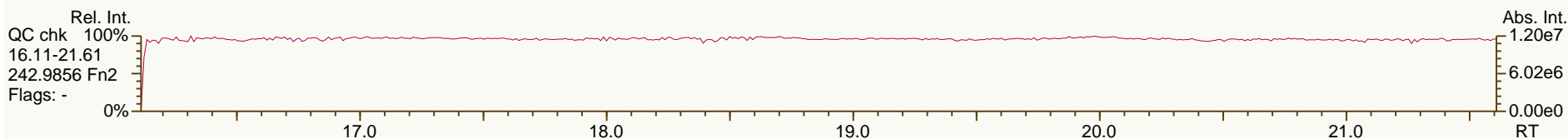
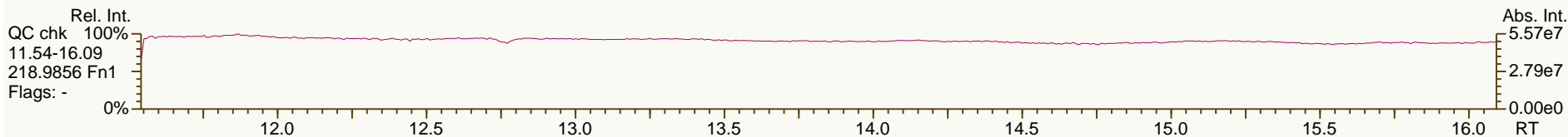
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User: CTW Datafile: 140324S04



SGS ID: SBS\_140324\_PCB\_SC  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

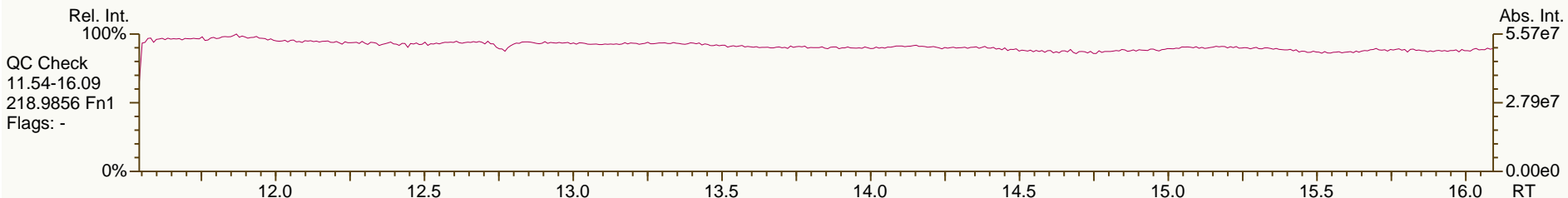
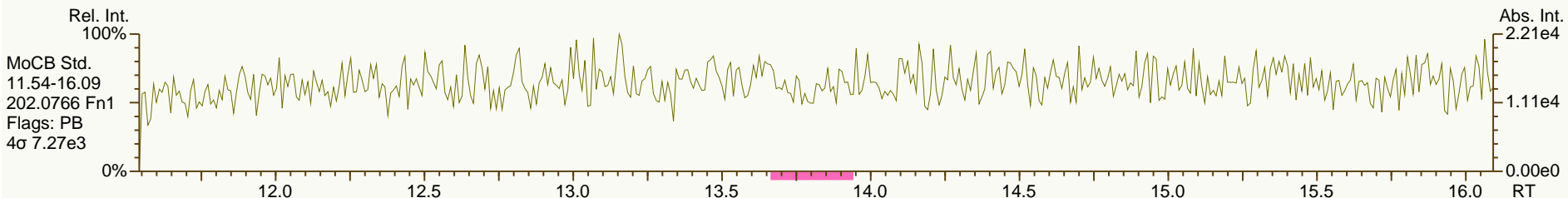
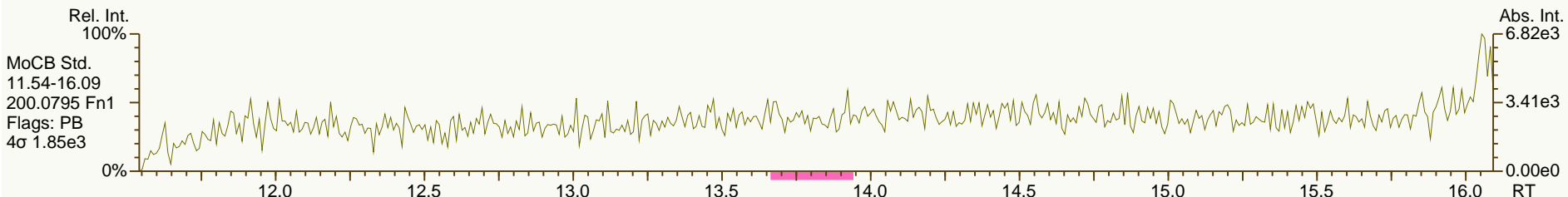
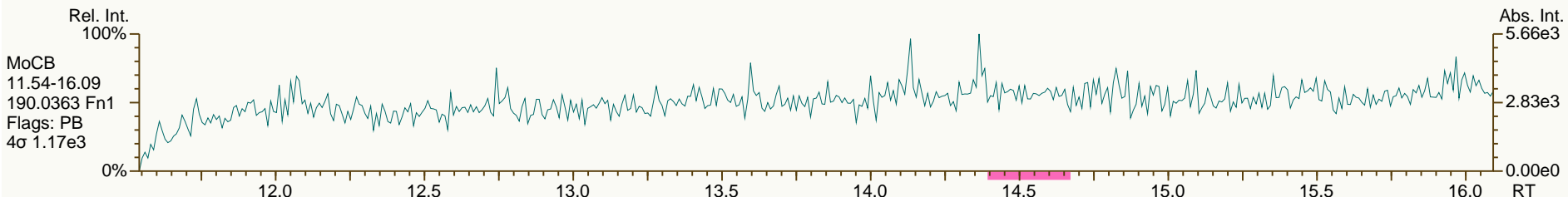
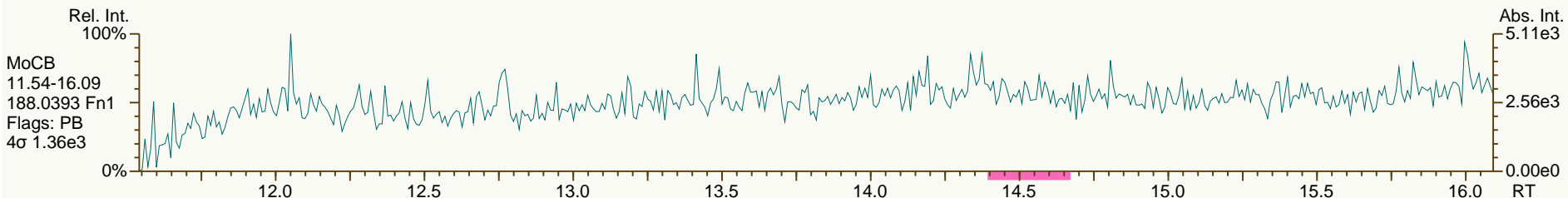
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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Acq: 24-Mar-2014 15:40:49  
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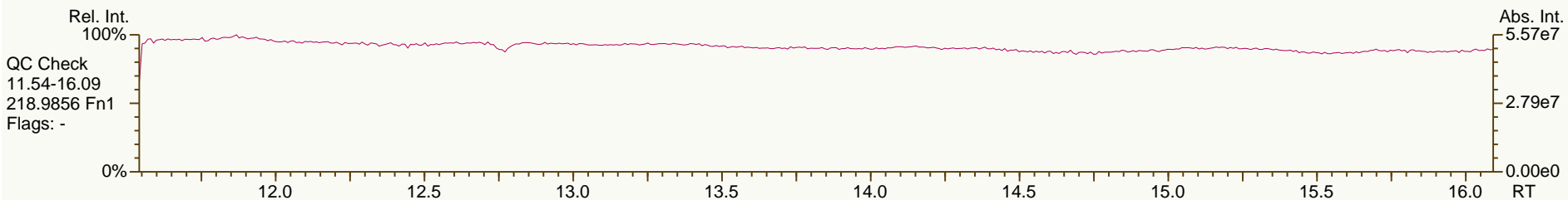
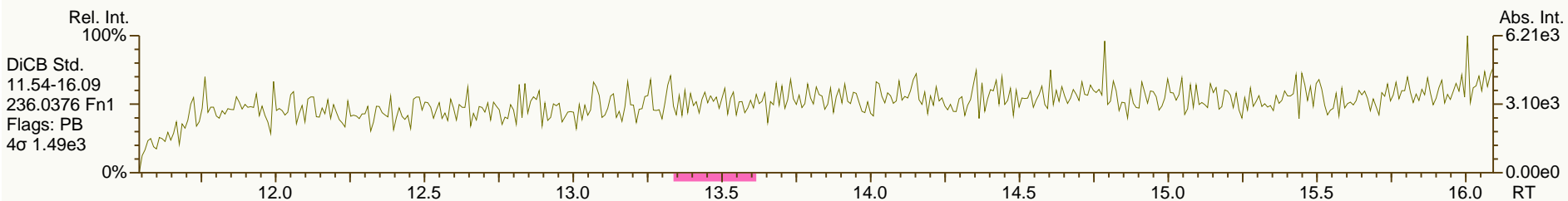
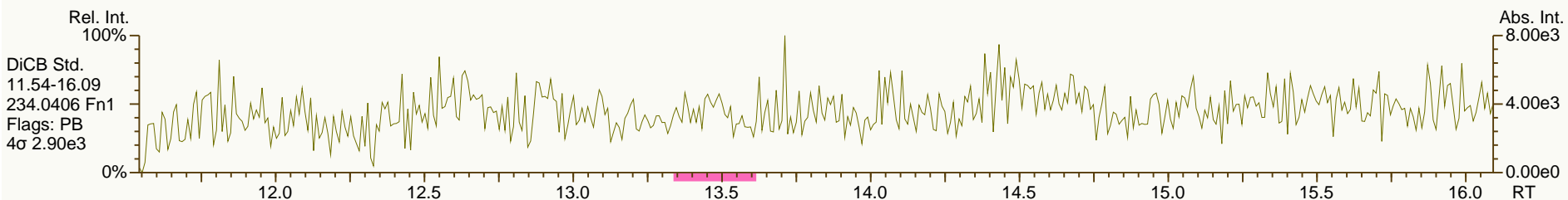
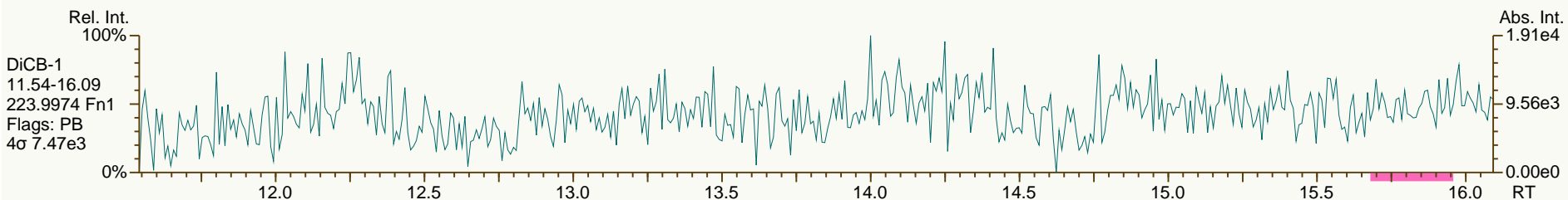
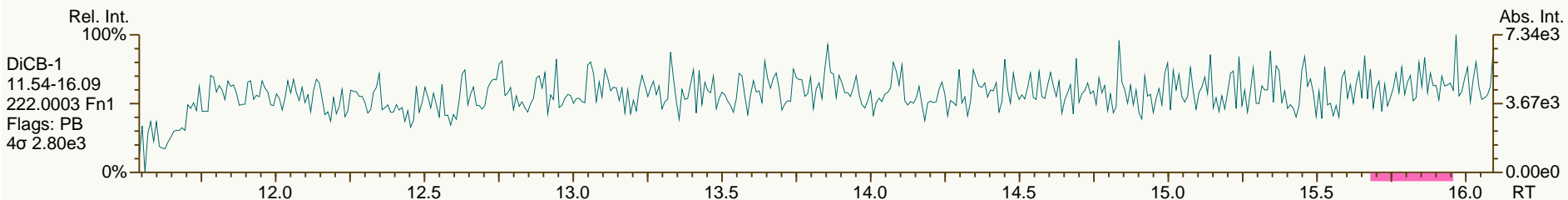




SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

Acq: 24-Mar-2014 15:40:49  
 User: CTW Datafile: 140324S06



SGS ID: SBS\_140324\_PCB\_SC  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

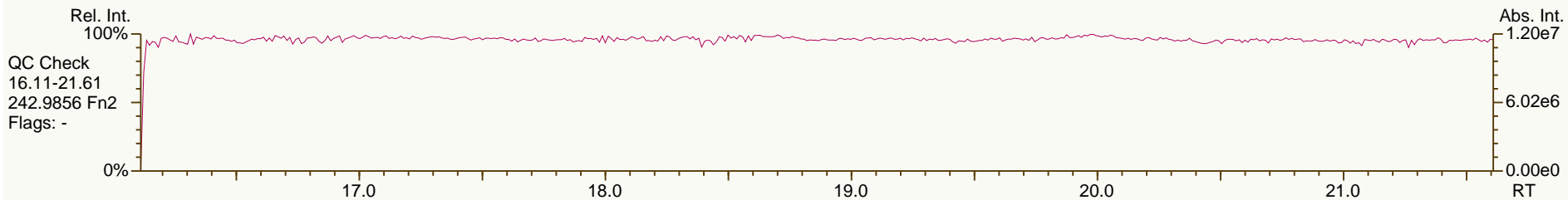
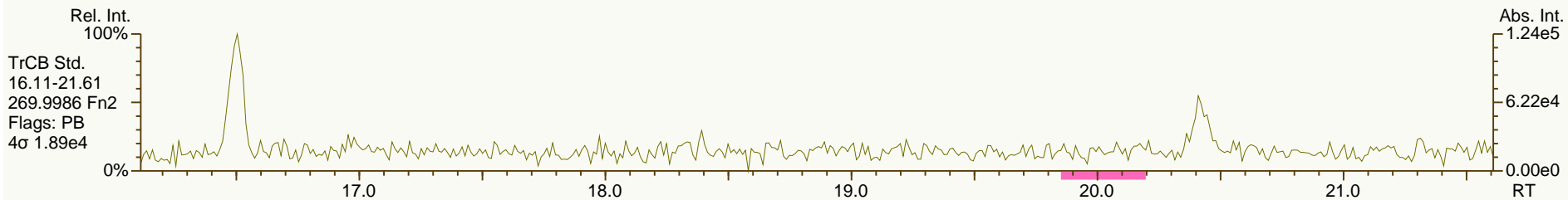
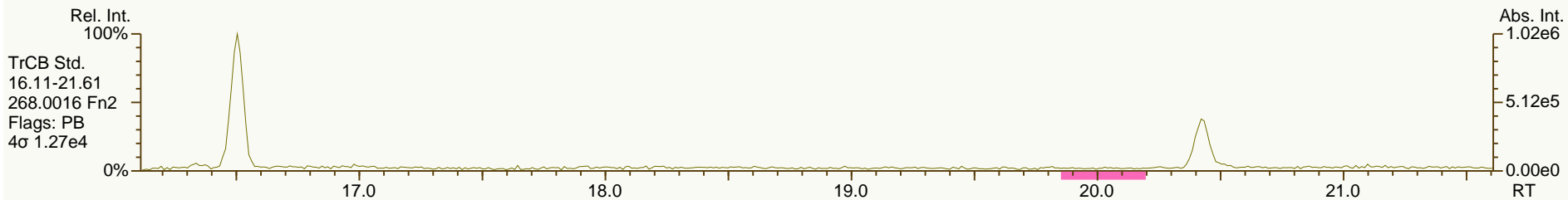
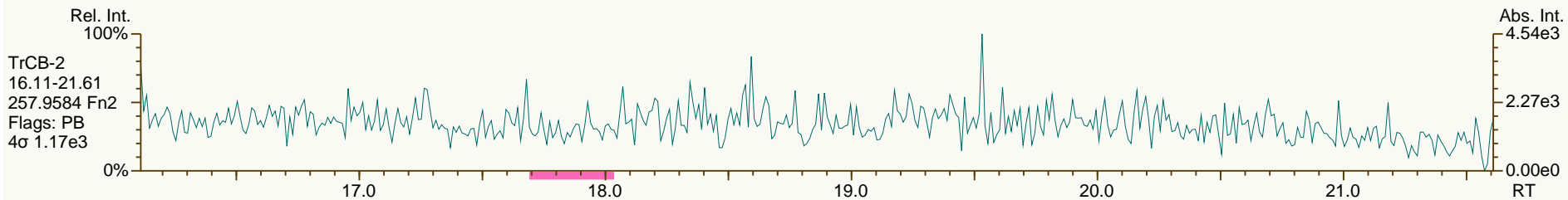
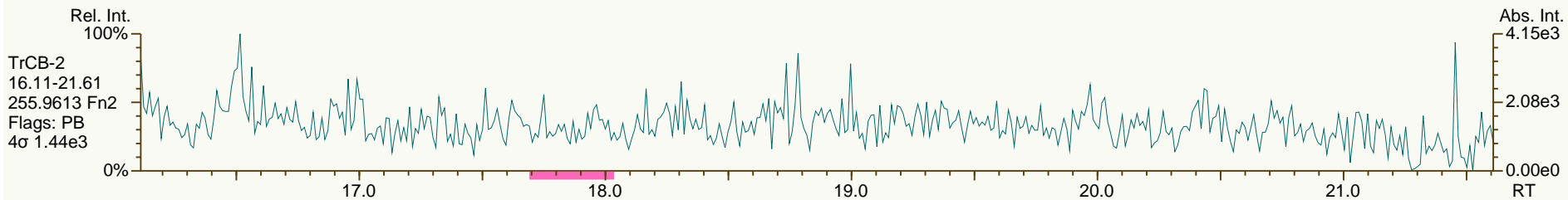
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

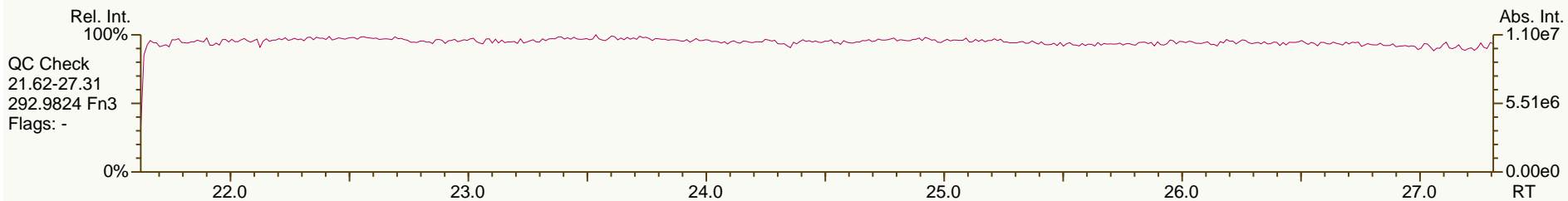
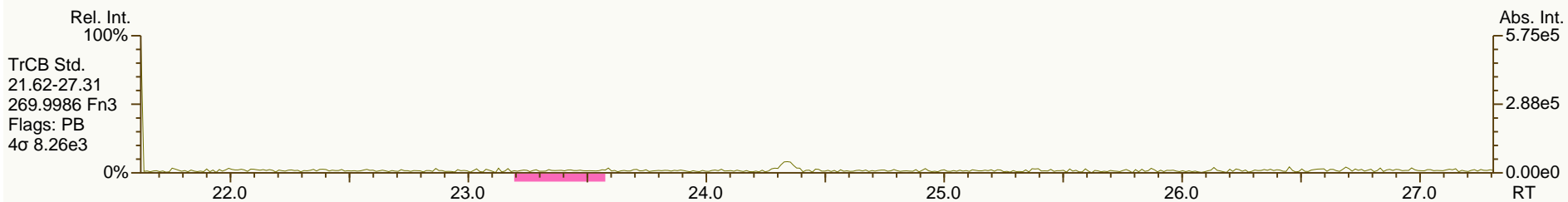
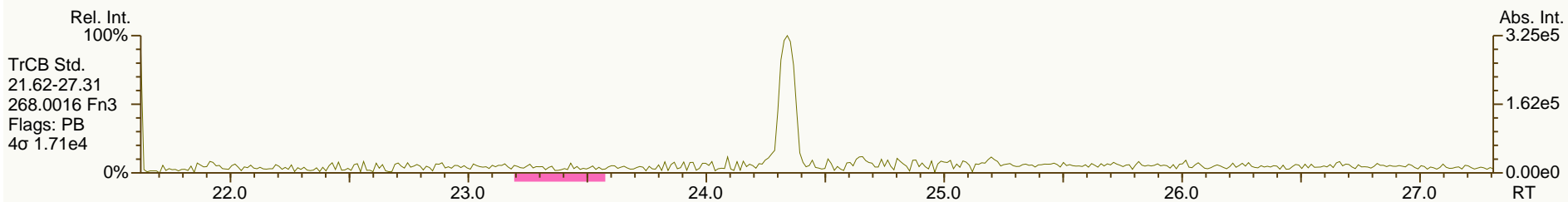
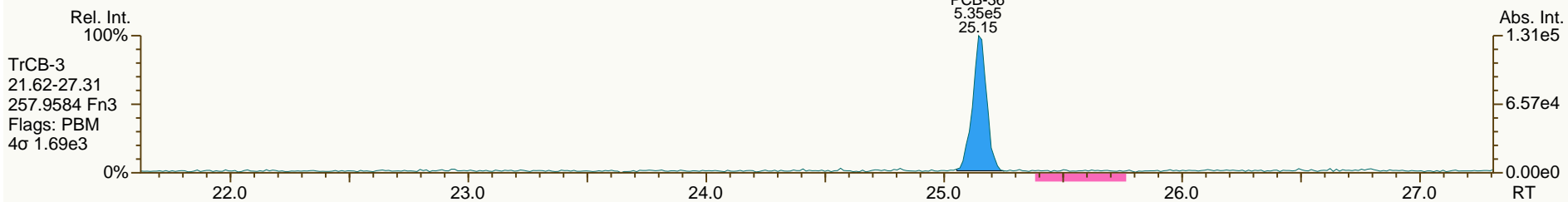
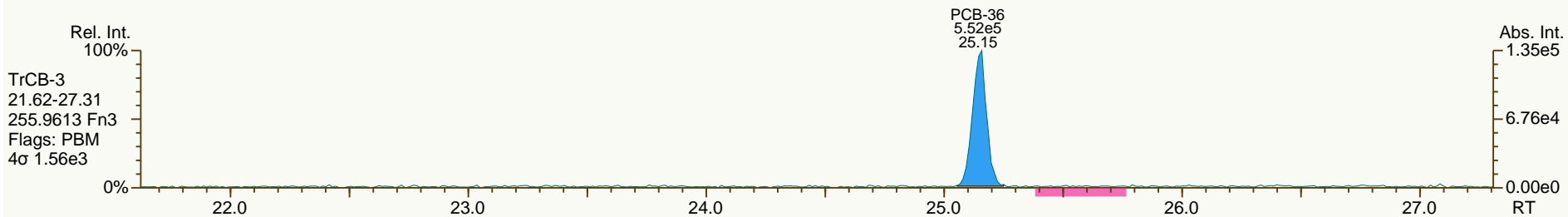
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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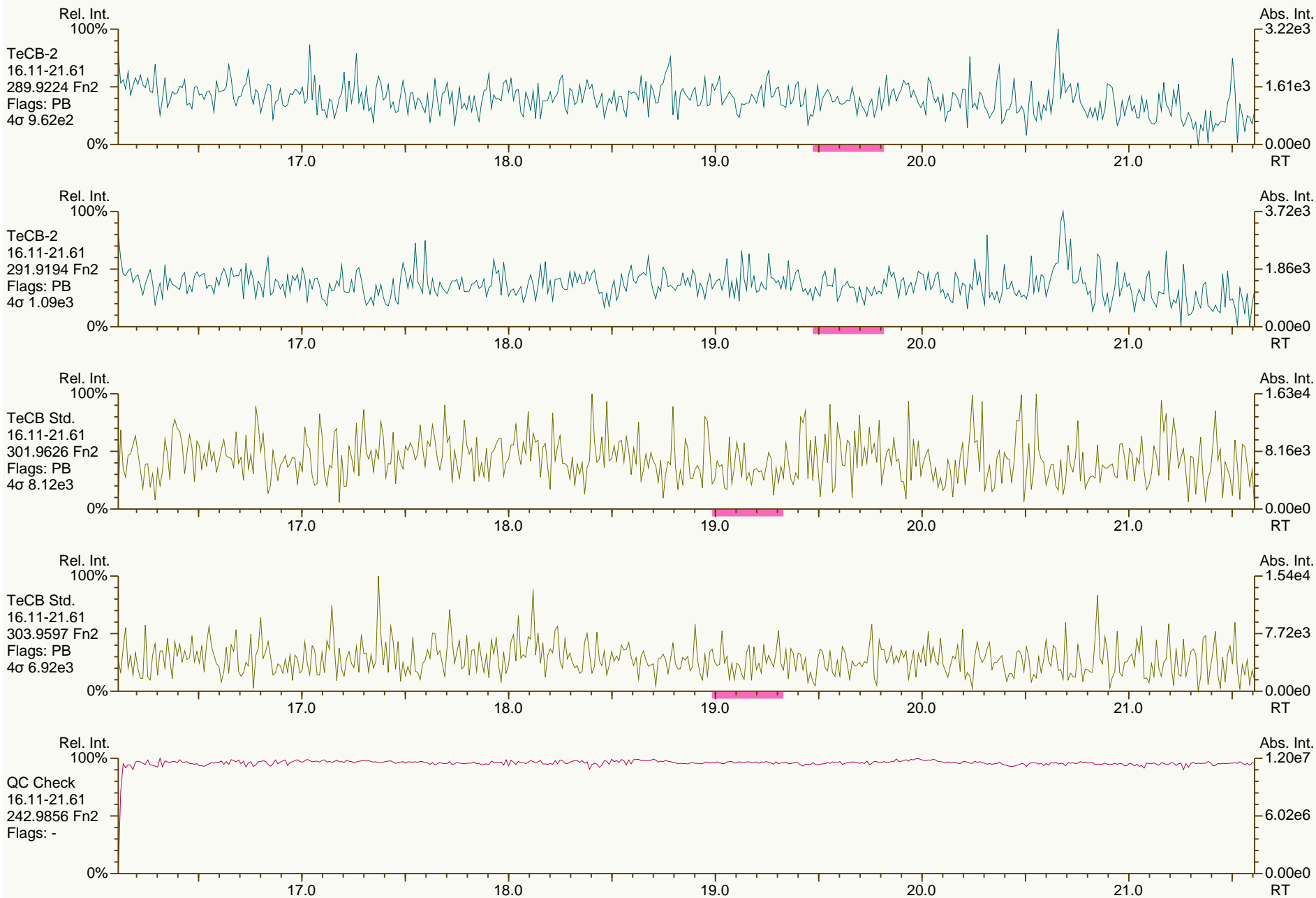
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SGS ID: SBS\_140324\_PCB\_SC  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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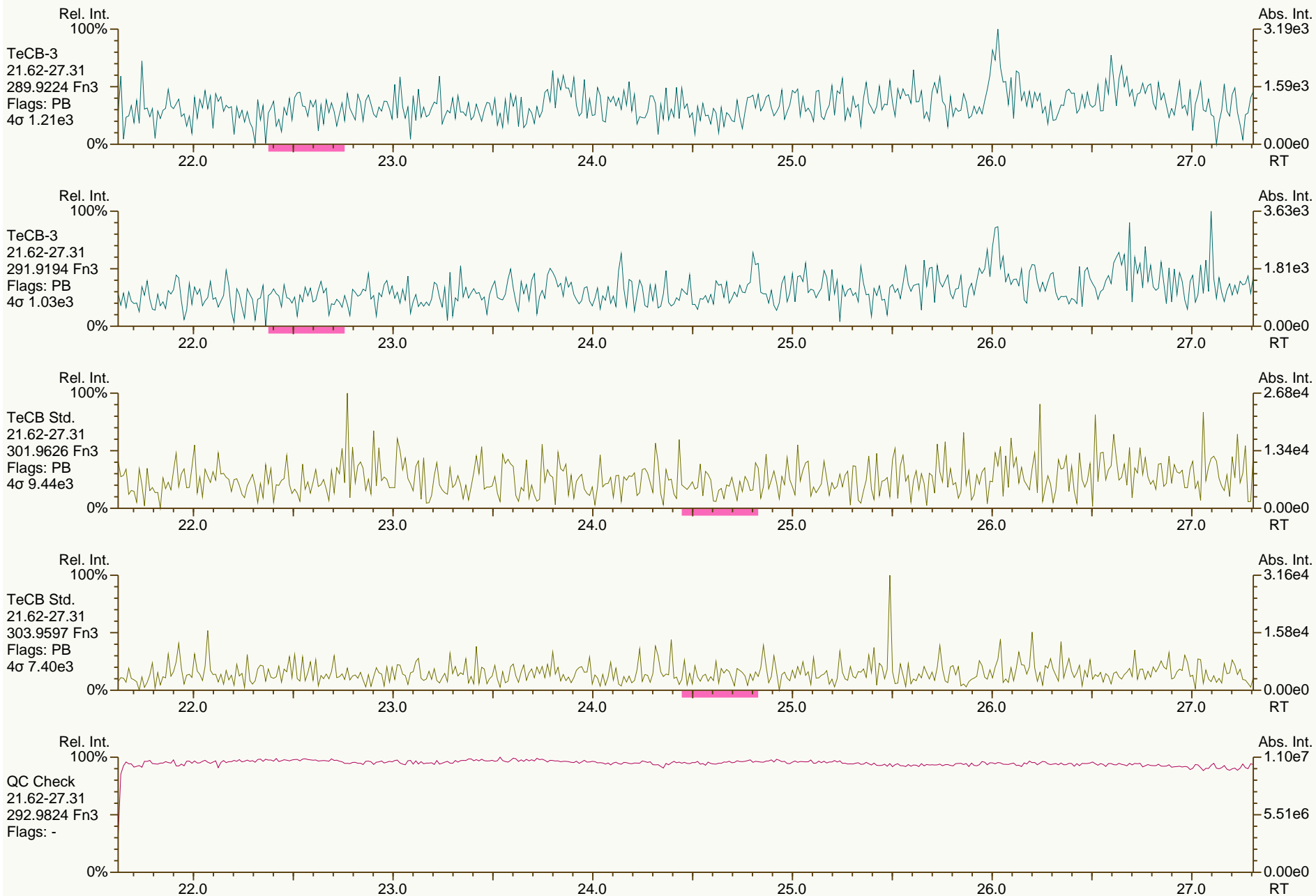
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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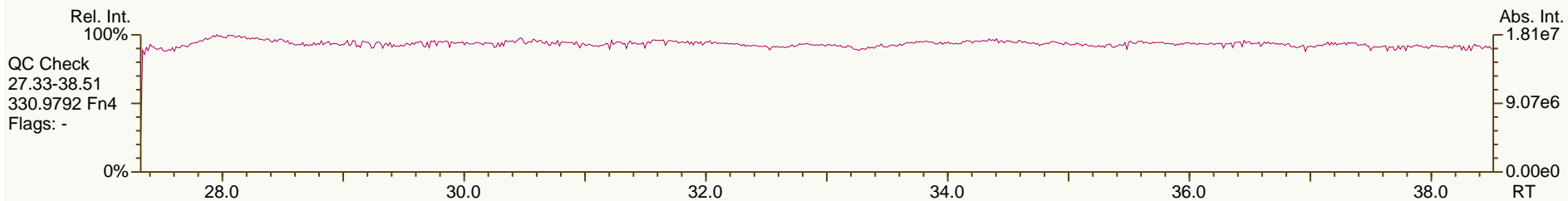
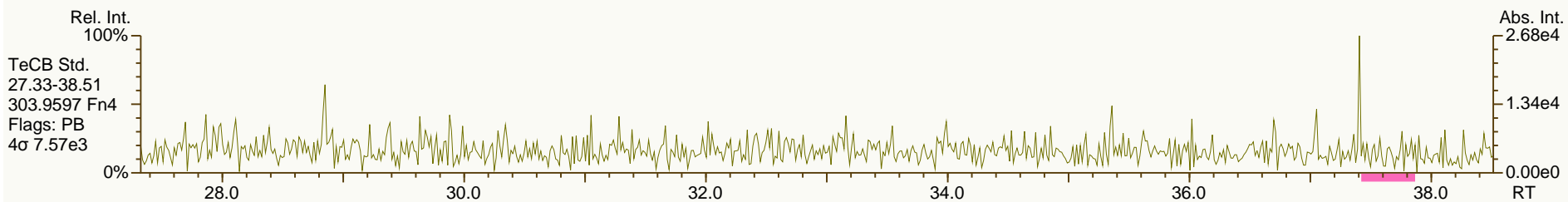
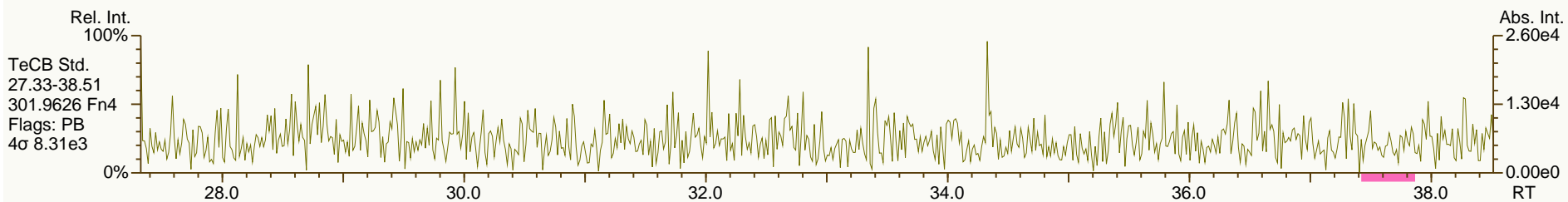
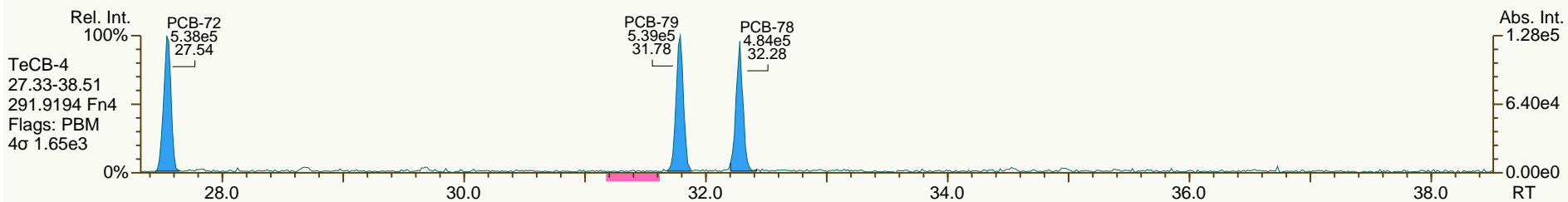
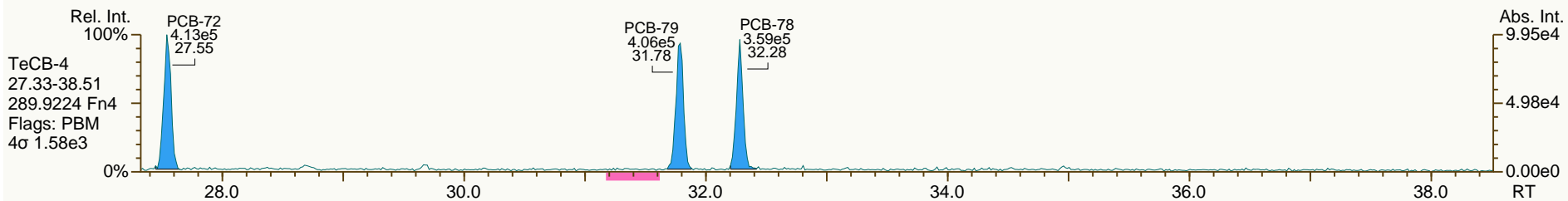
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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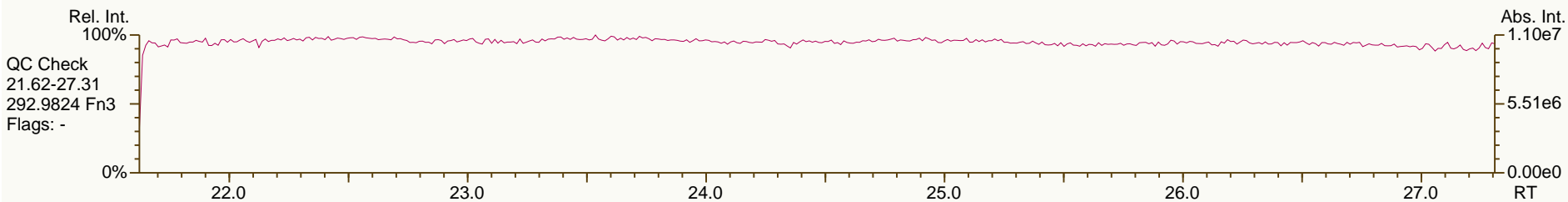
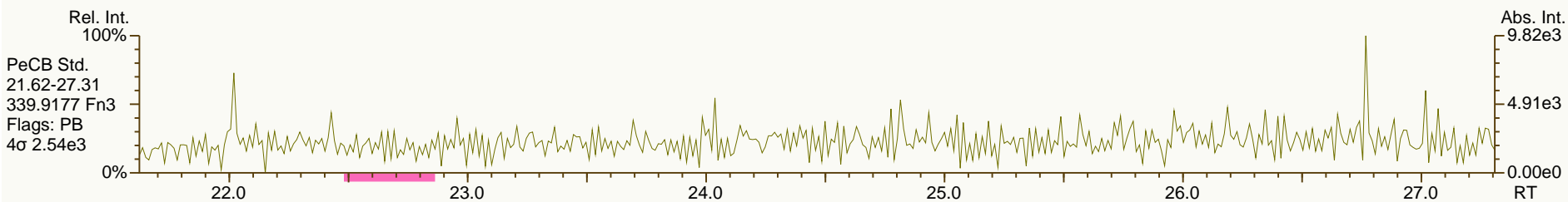
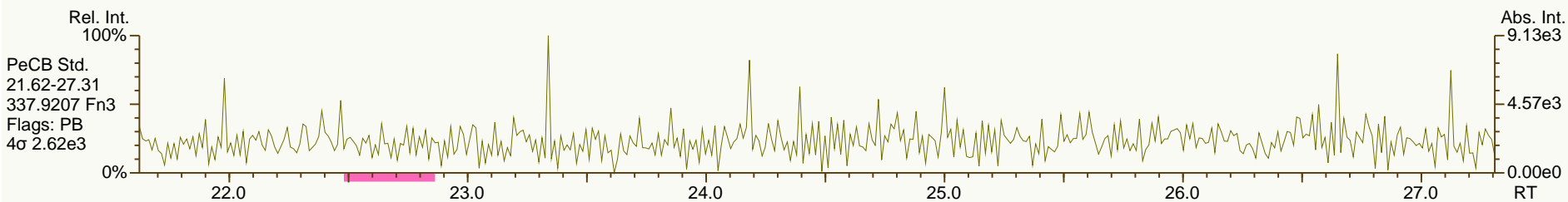
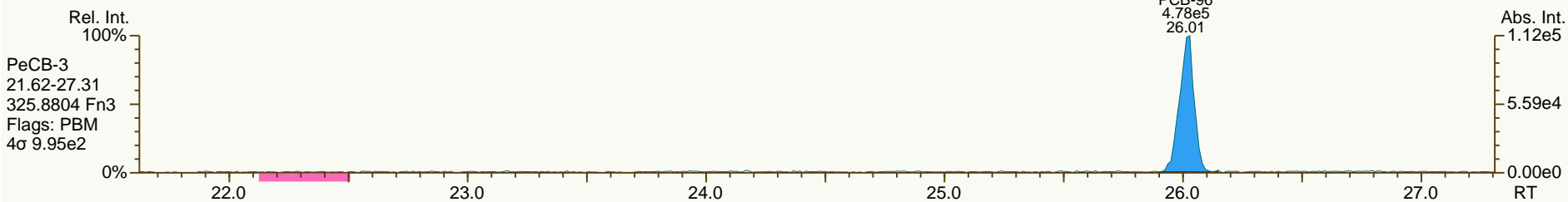
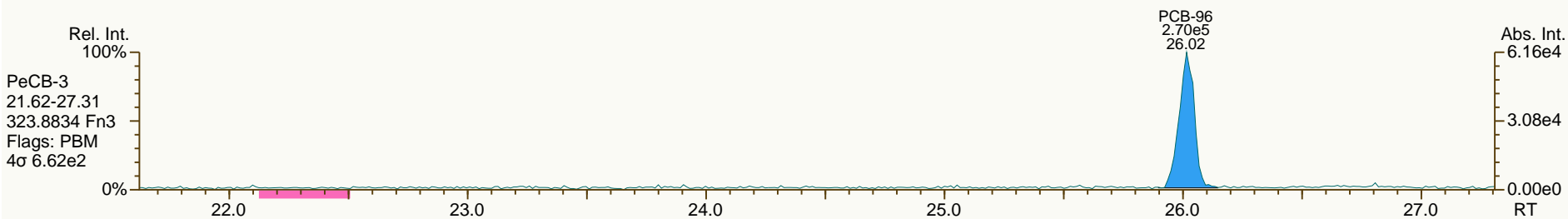
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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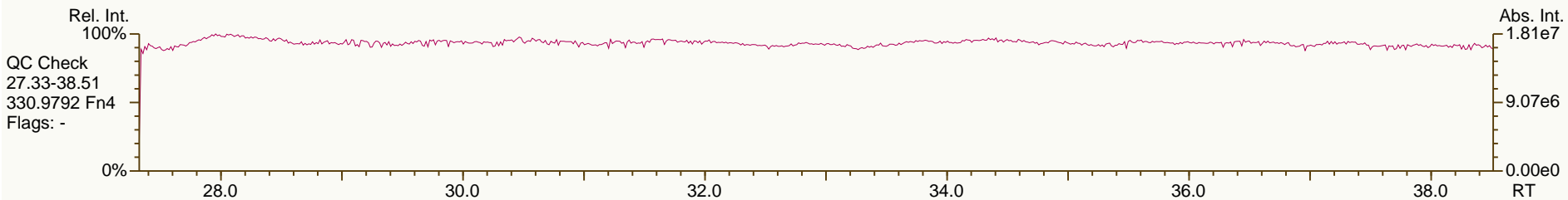
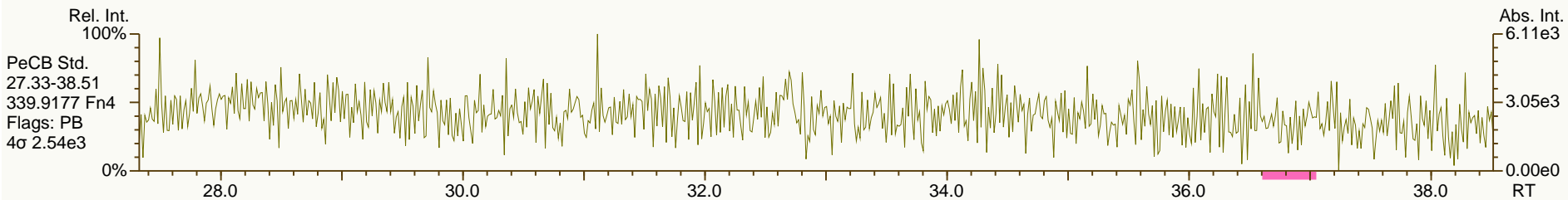
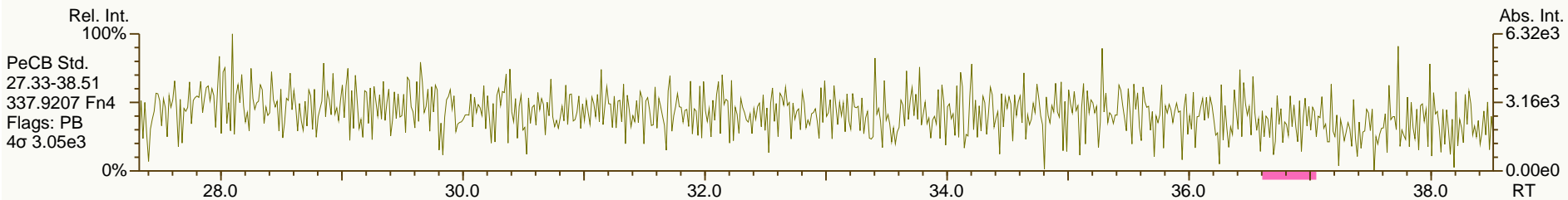
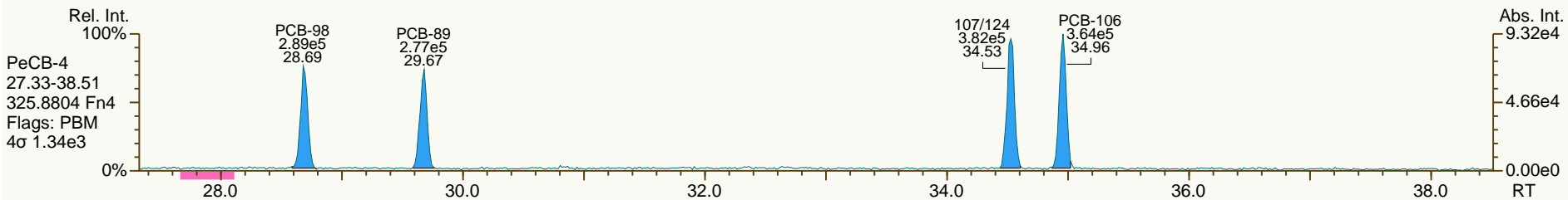
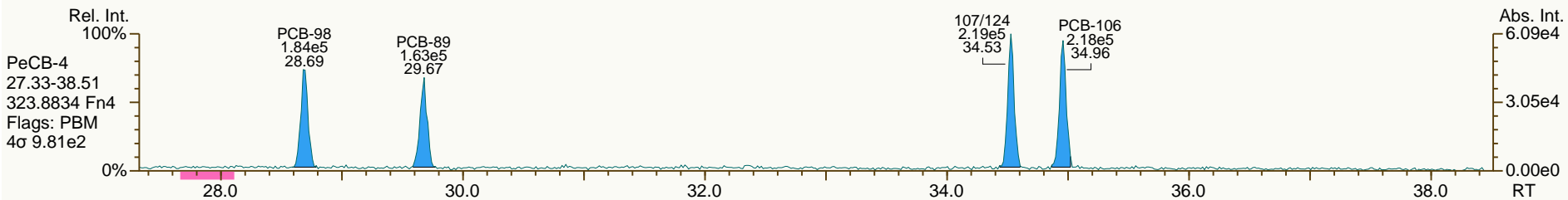




SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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SGS ID: SBS\_140324\_PCB\_SC  
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Sample ID: SIL 13-42-1  
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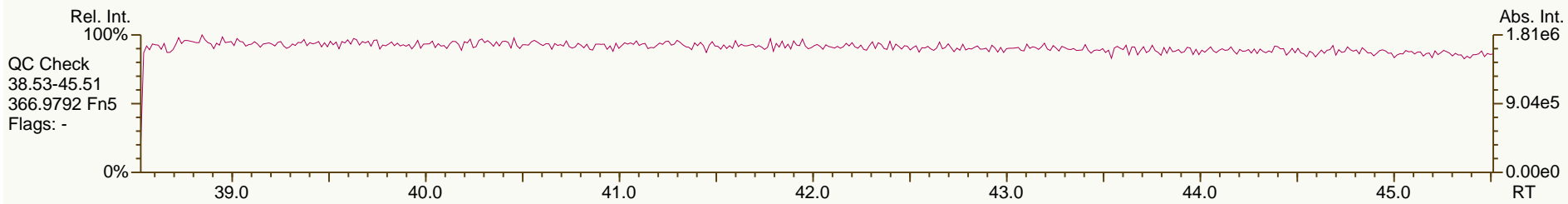
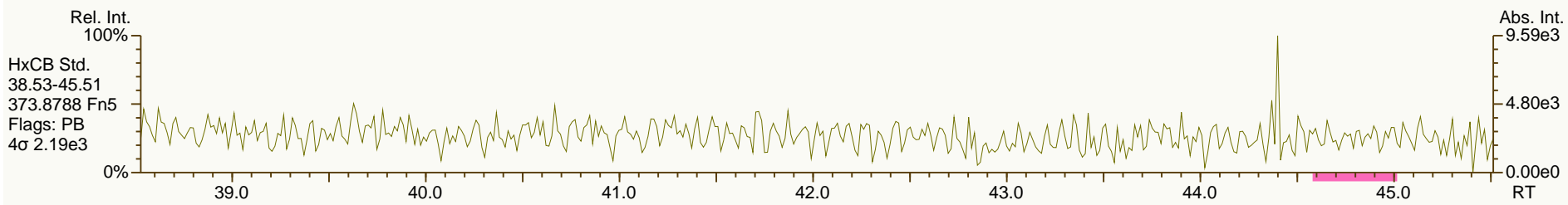
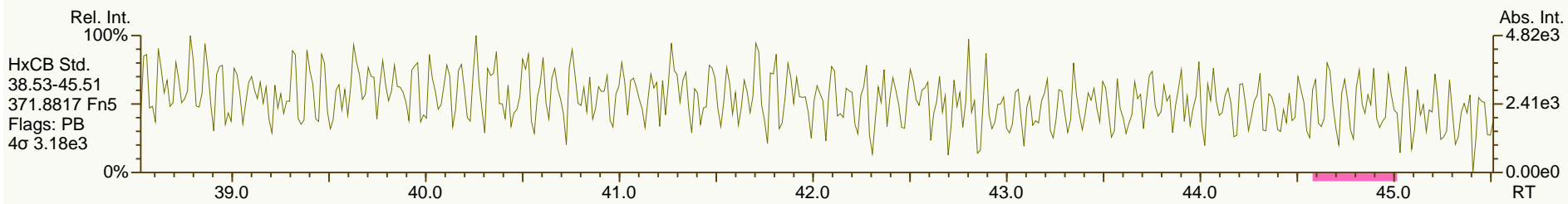
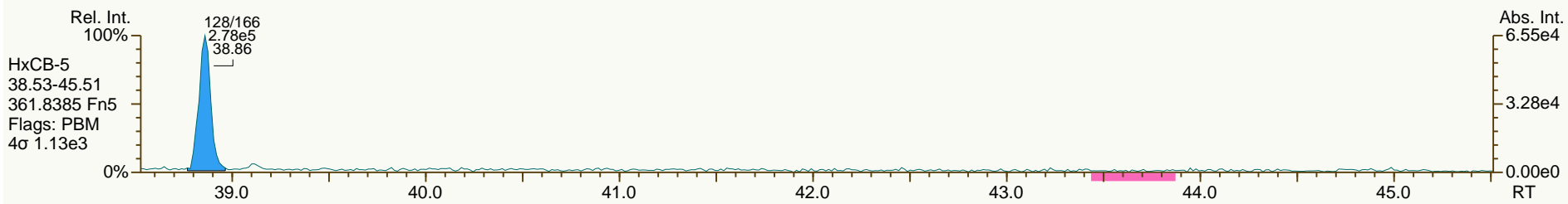
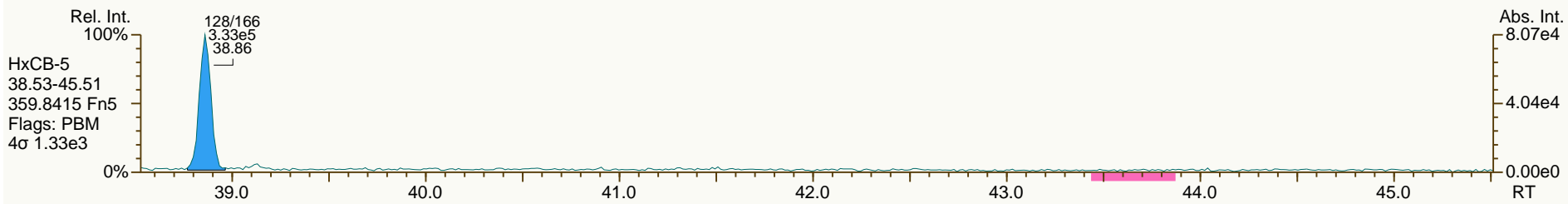
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SGS ID: SBS\_140324\_PCB\_SC  
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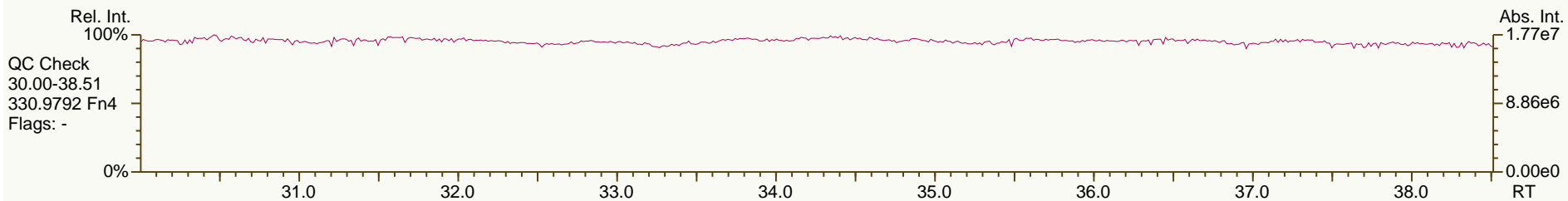
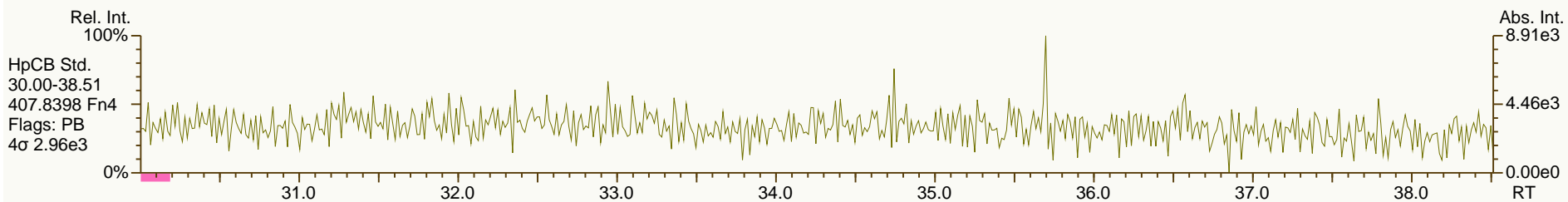
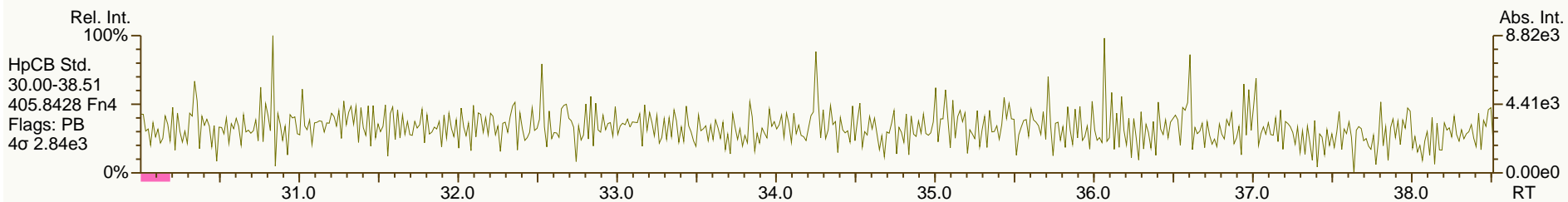
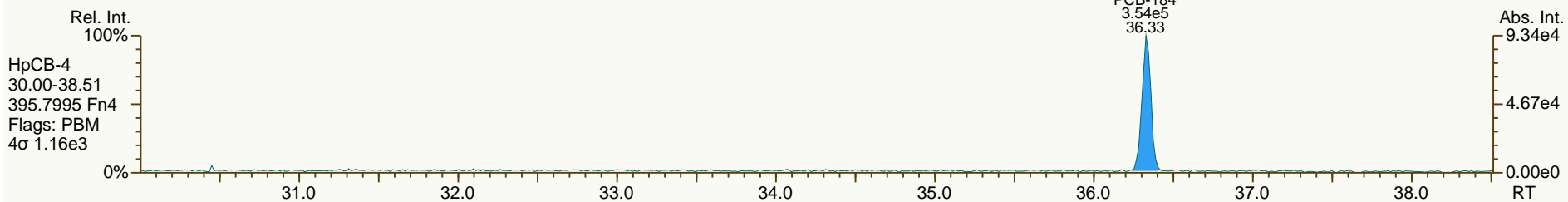
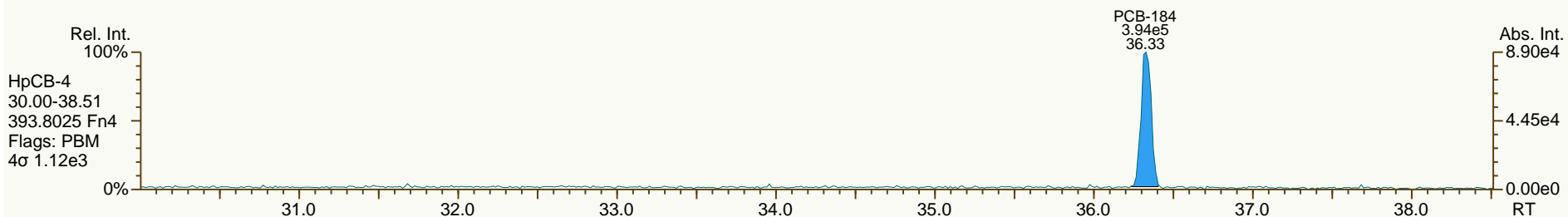
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SGS ID: SBS\_140324\_PCB\_SC  
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Sample ID: SIL 13-42-1  
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Acq: 24-Mar-2014 15:40:49  
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SGS ID: SBS\_140324\_PCB\_SC  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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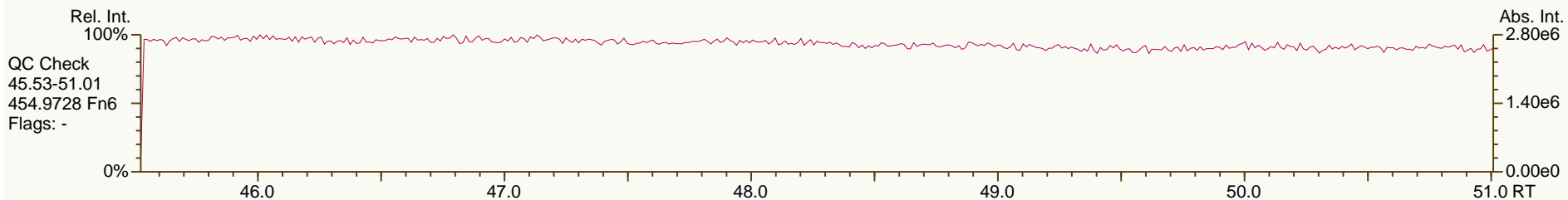
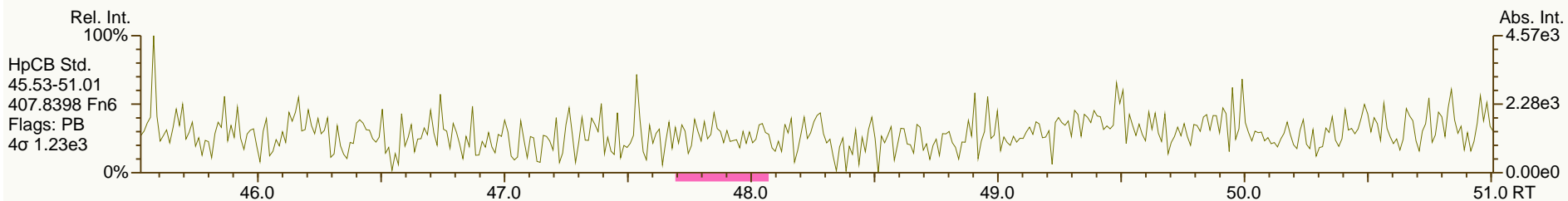
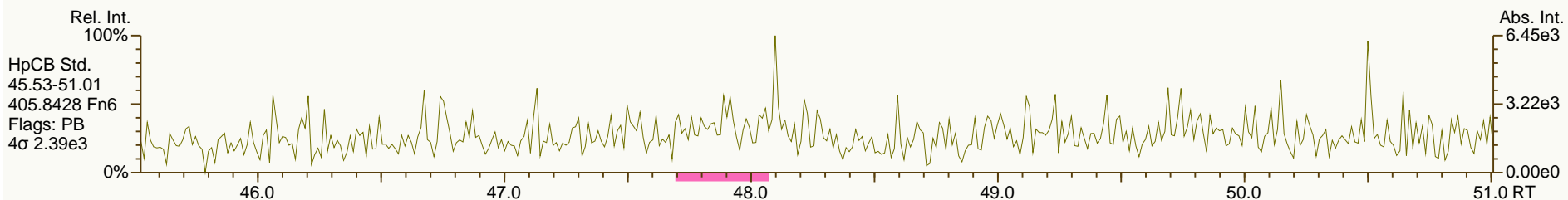
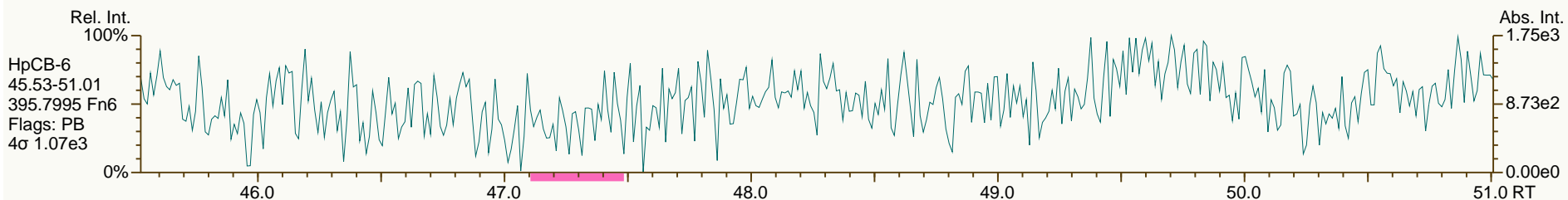
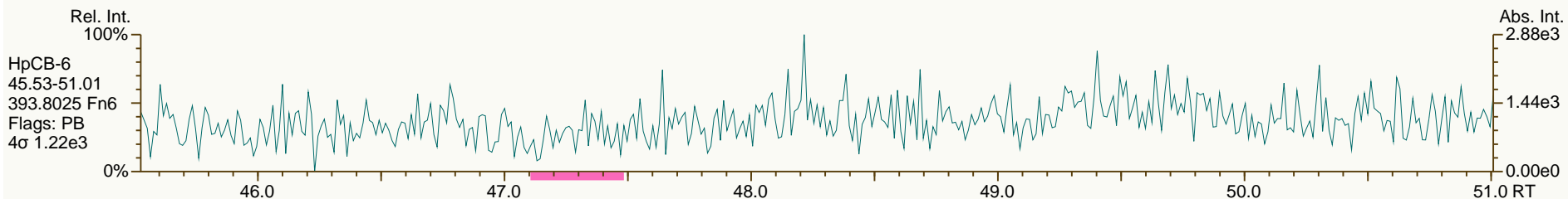
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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SGS ID: SBS\_140324\_PCB\_SC  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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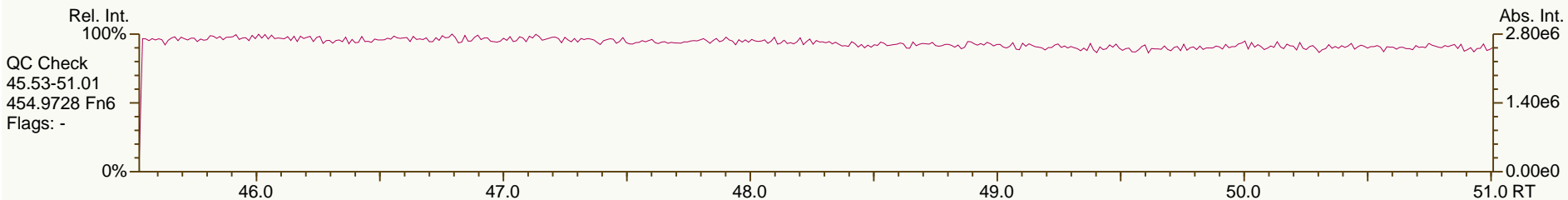
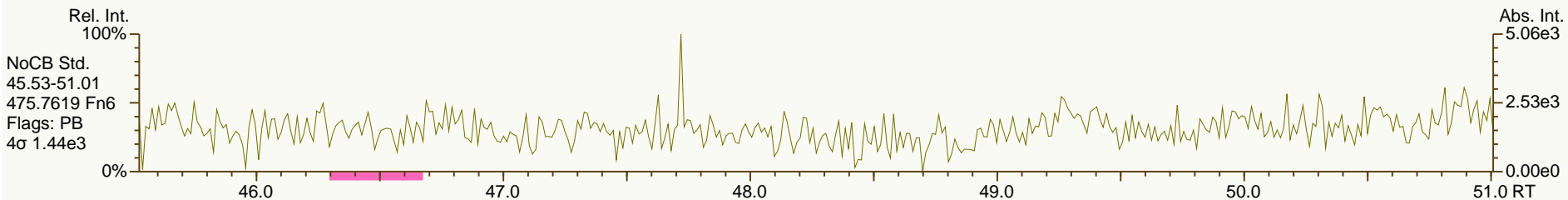
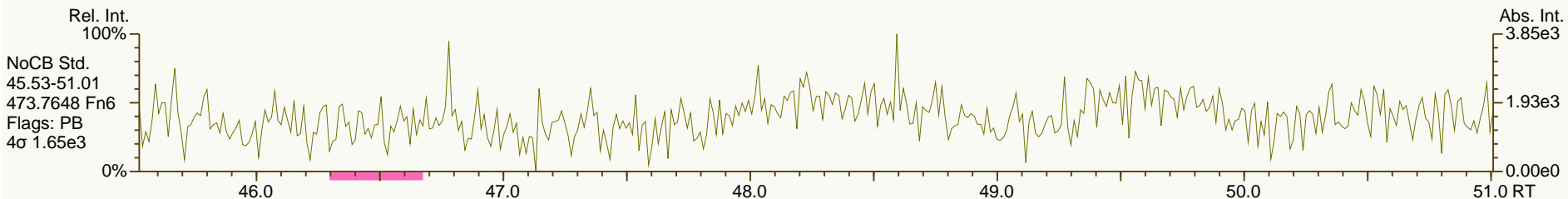
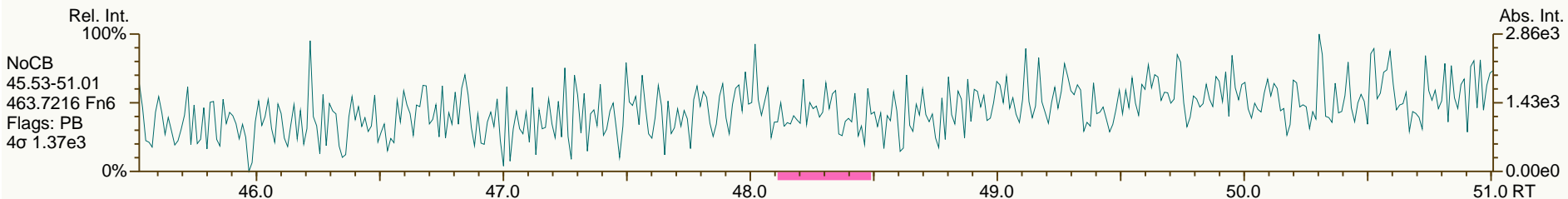
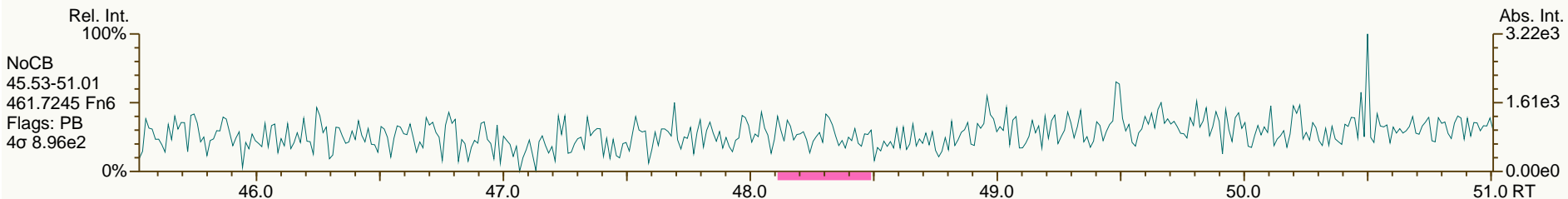
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SGS ID: SBS\_140324\_PCB\_SC  
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Sample ID: SIL 13-42-1  
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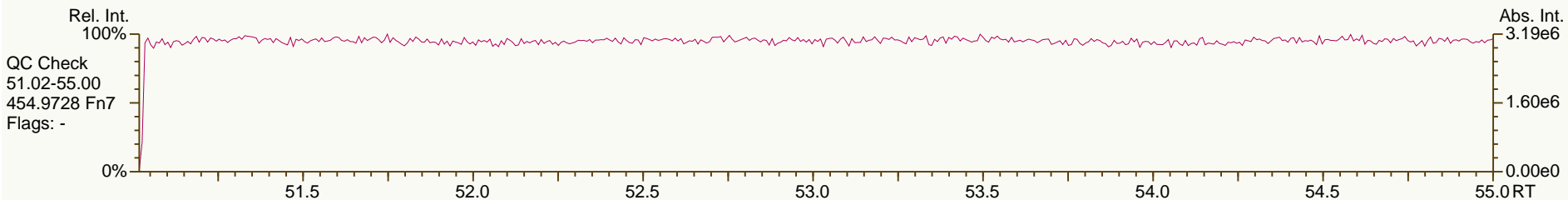
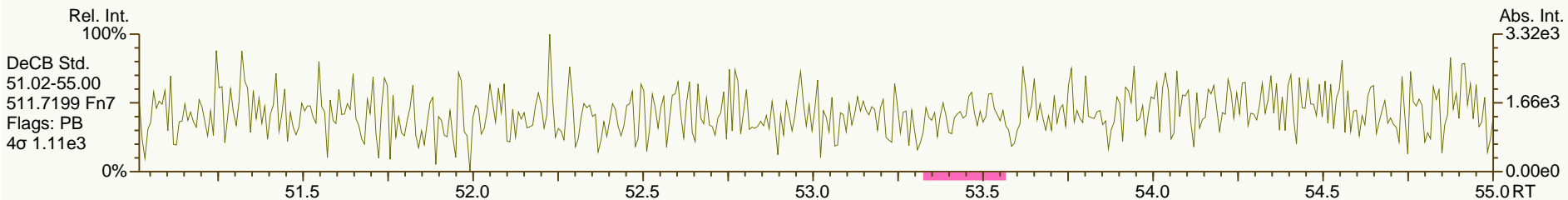
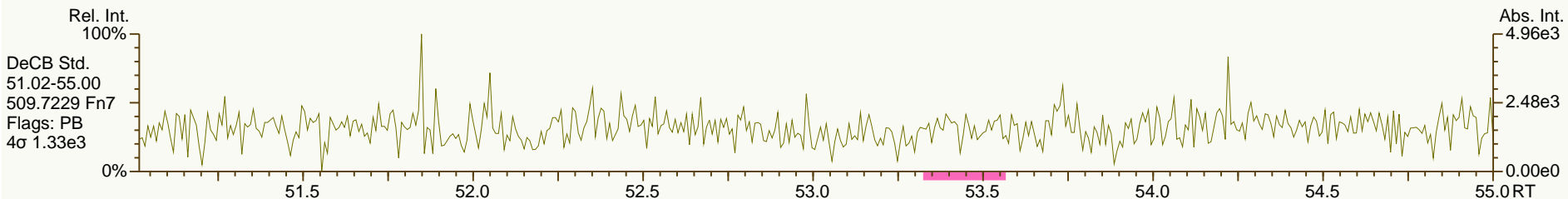
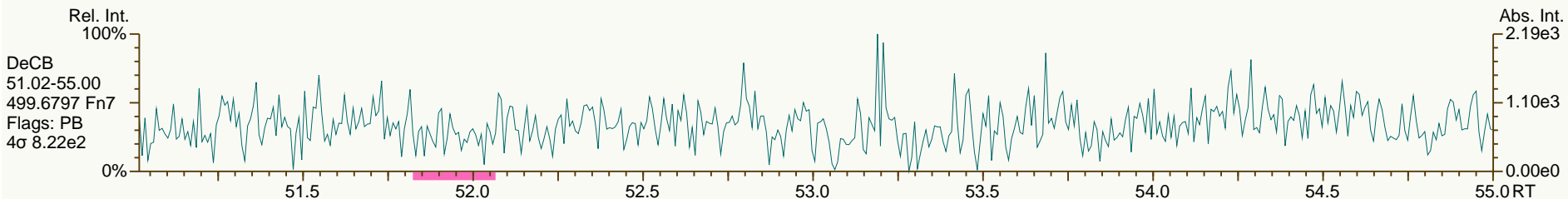
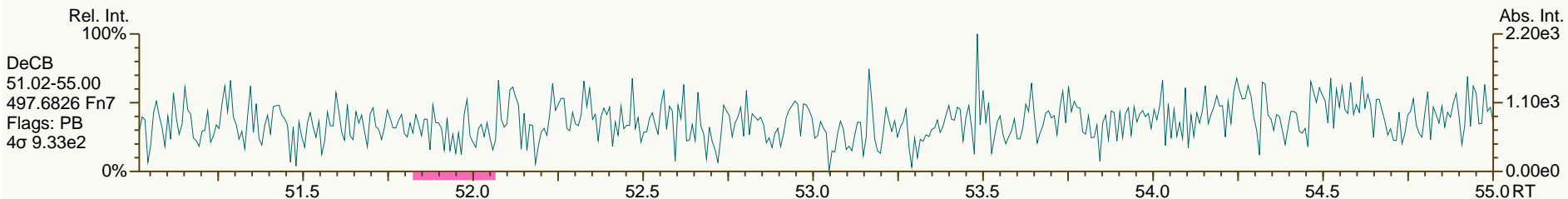
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SGS ID: SBS\_140324\_PCB\_SC  
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Sample ID: SIL 13-42-1  
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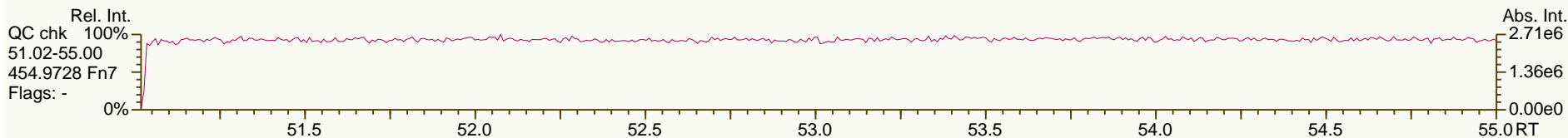
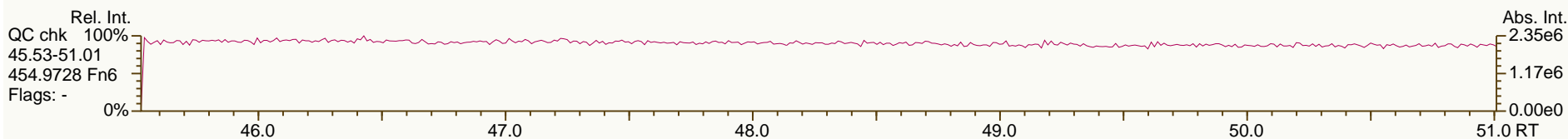
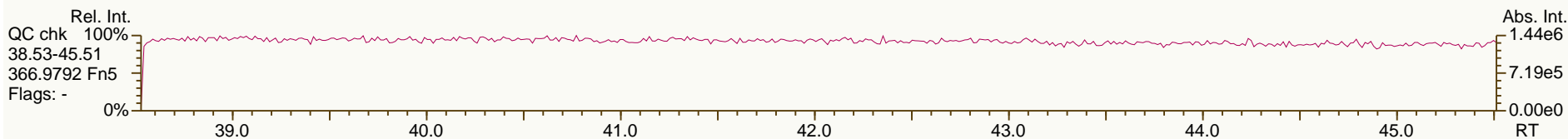
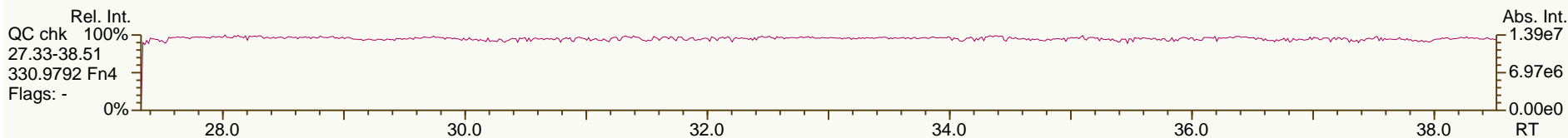
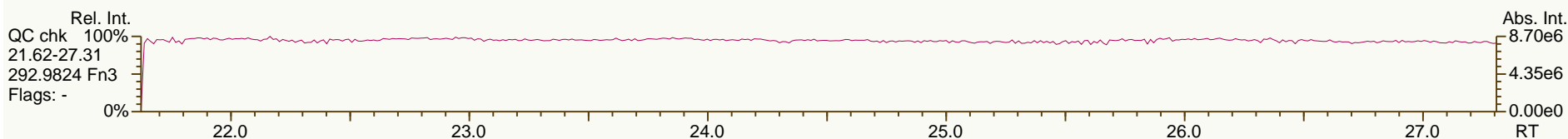
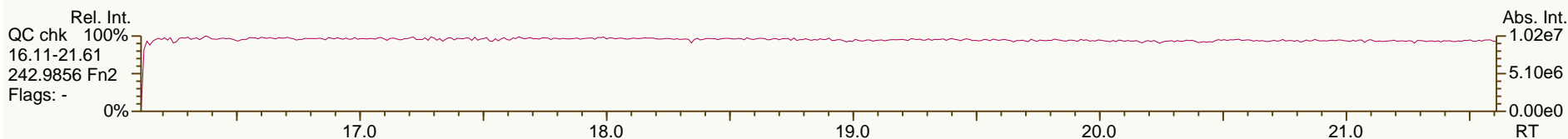
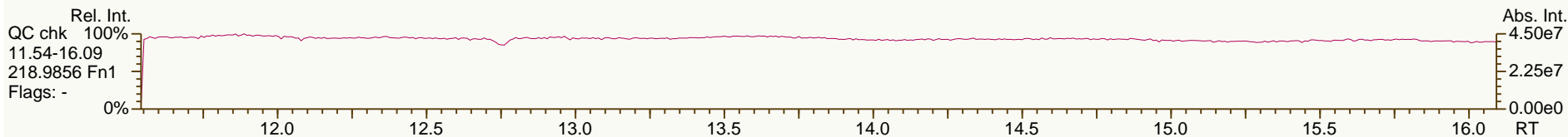
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SGS ID: SBS\_140324\_PCB\_SD  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

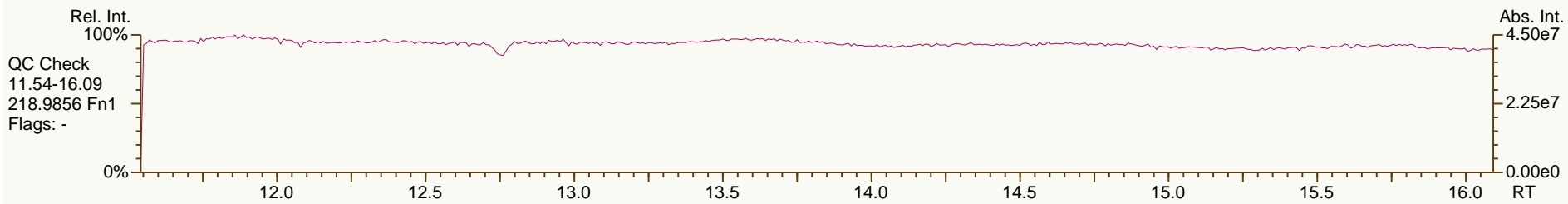
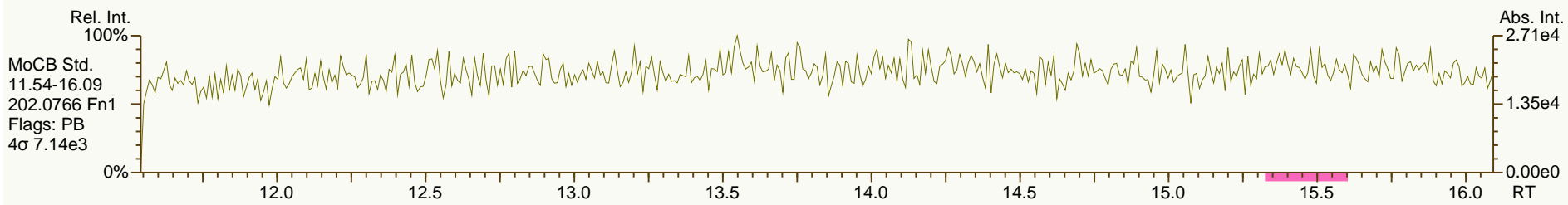
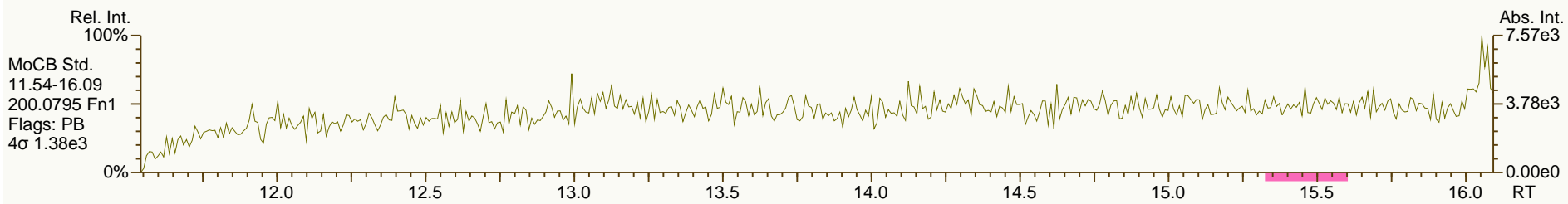
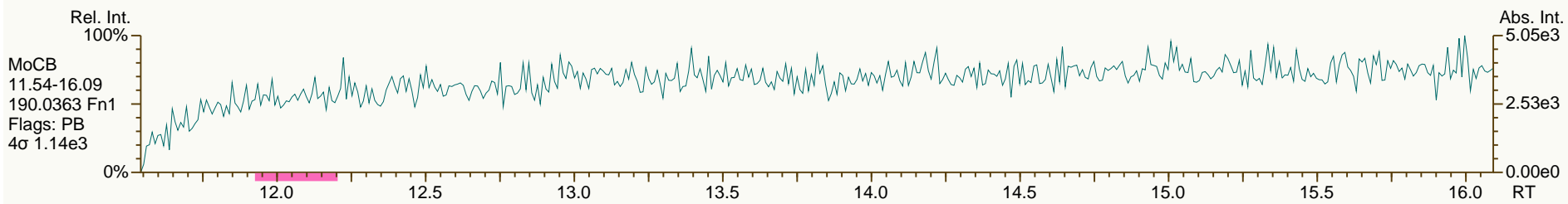
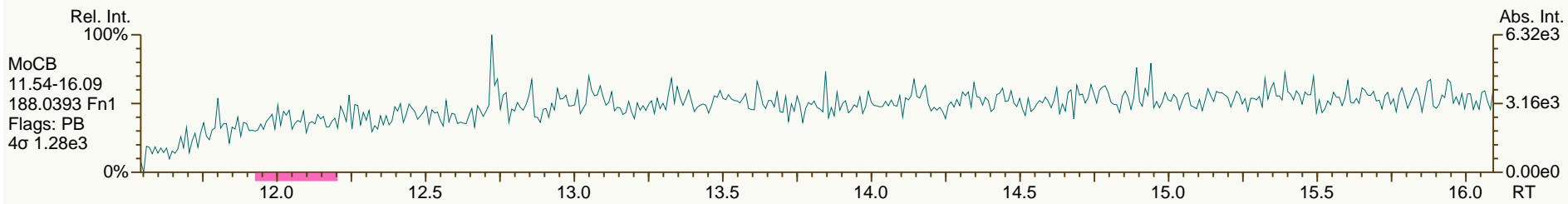
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SGS ID: SBS\_140324\_PCB\_SD  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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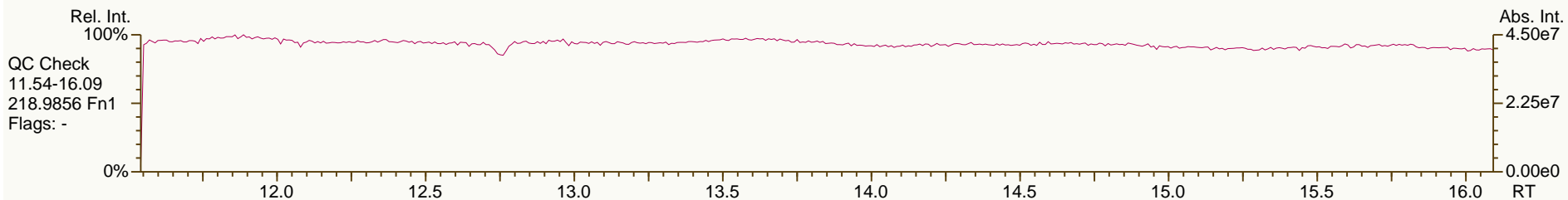
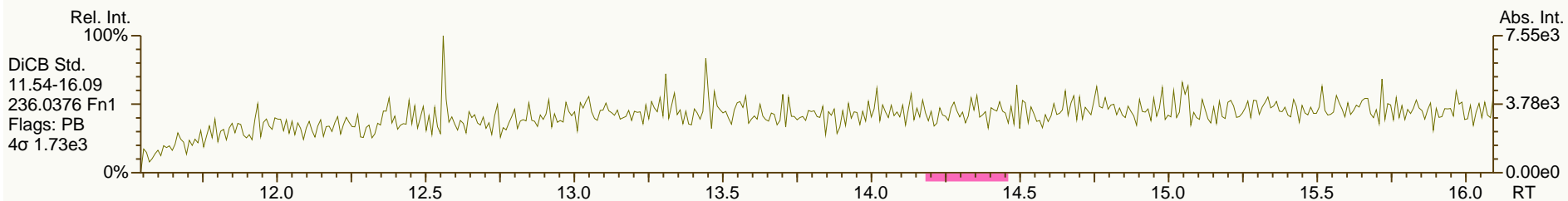
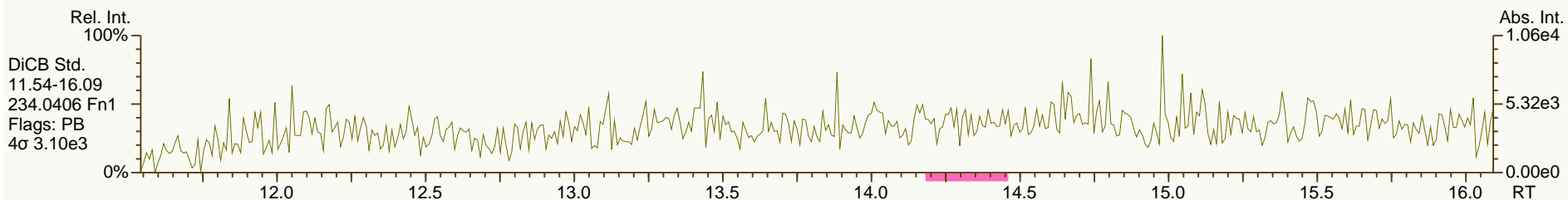
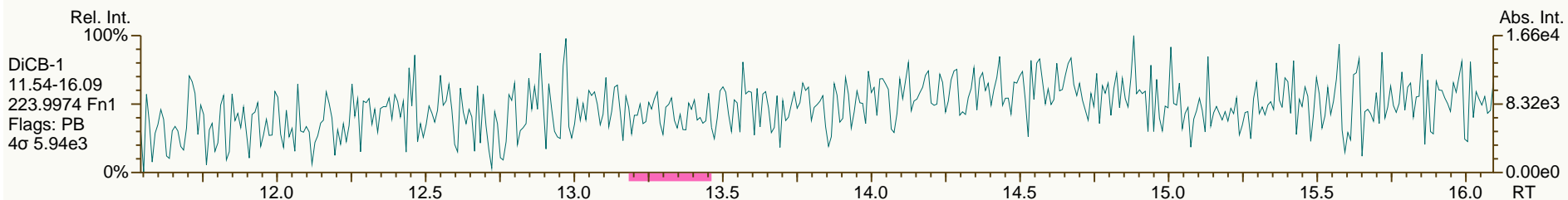
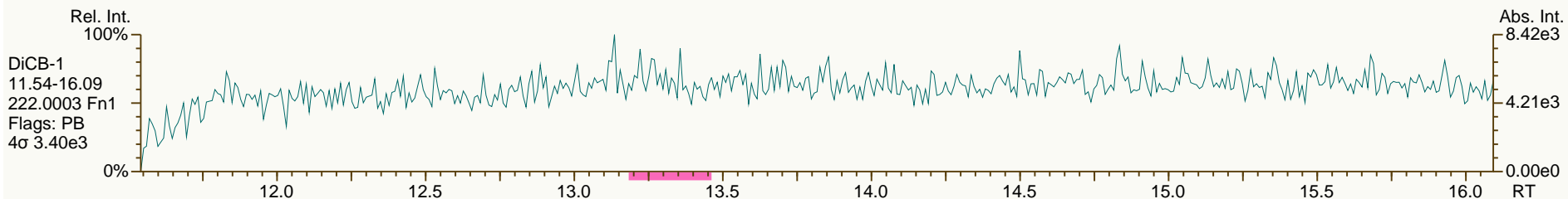
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SGS ID: SBS\_140324\_PCB\_SD  
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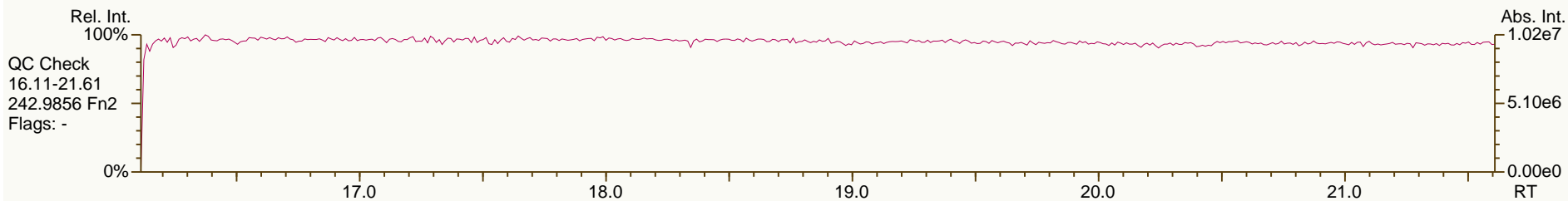
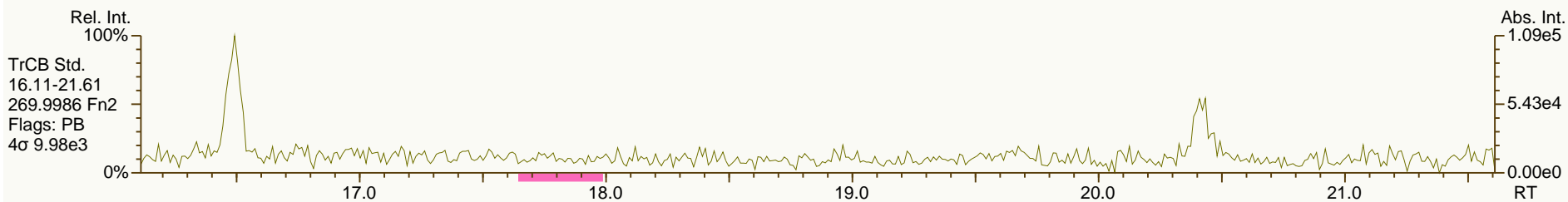
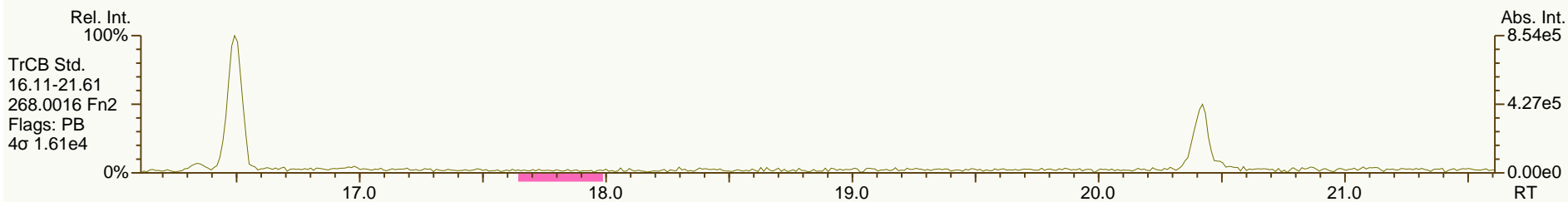
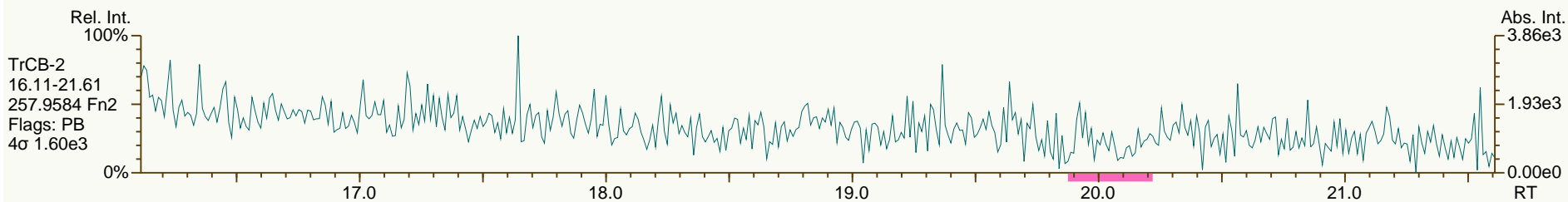
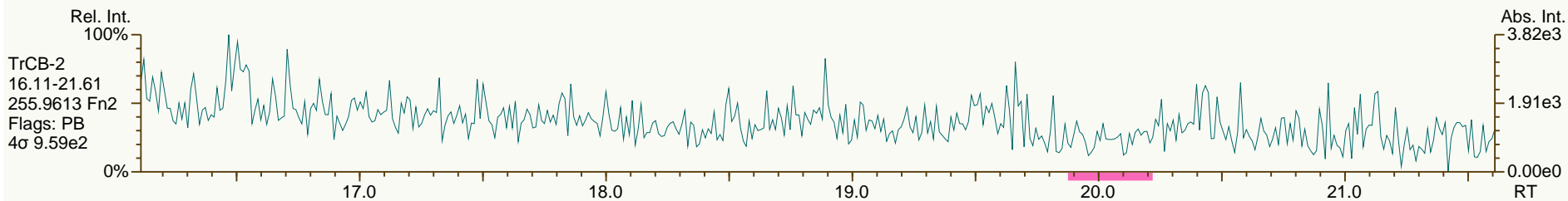
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SGS ID: SBS\_140324\_PCB\_SD  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

Acq: 24-Mar-2014 22:34:22  
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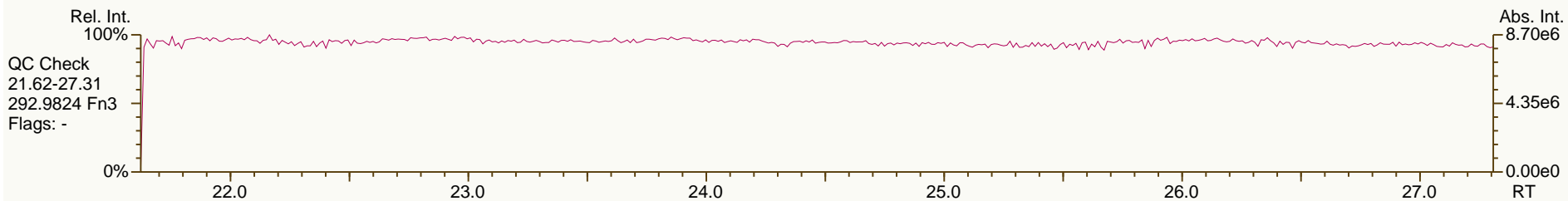
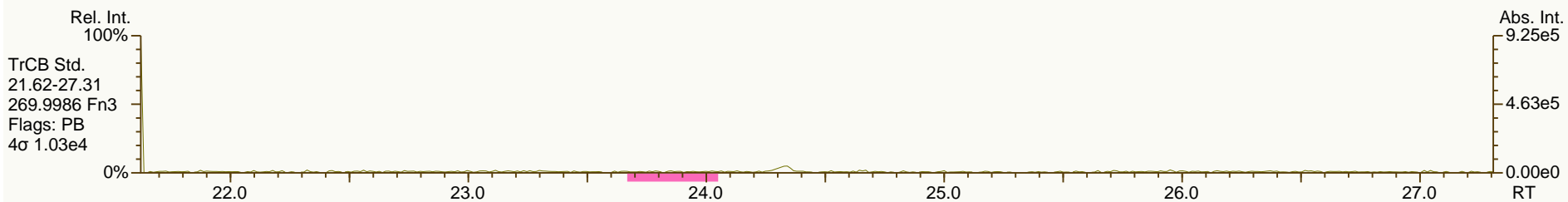
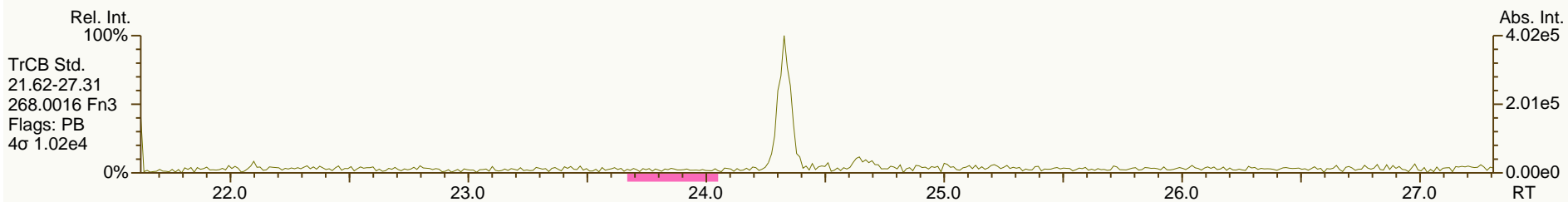
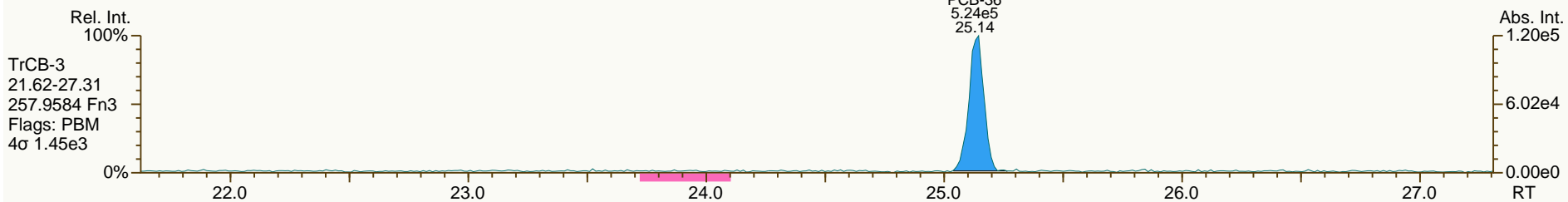
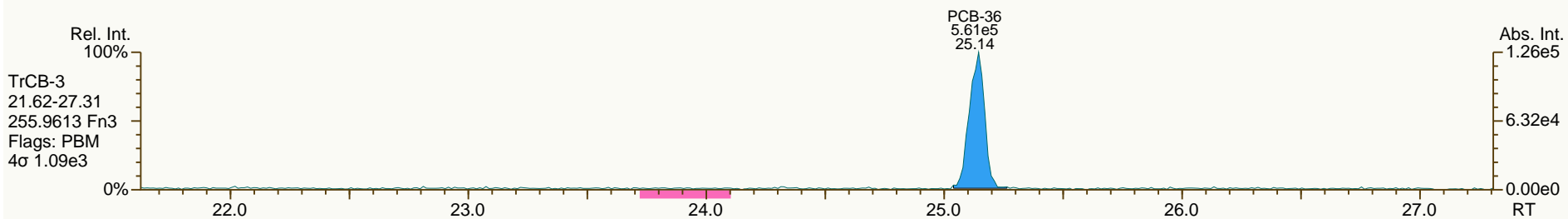




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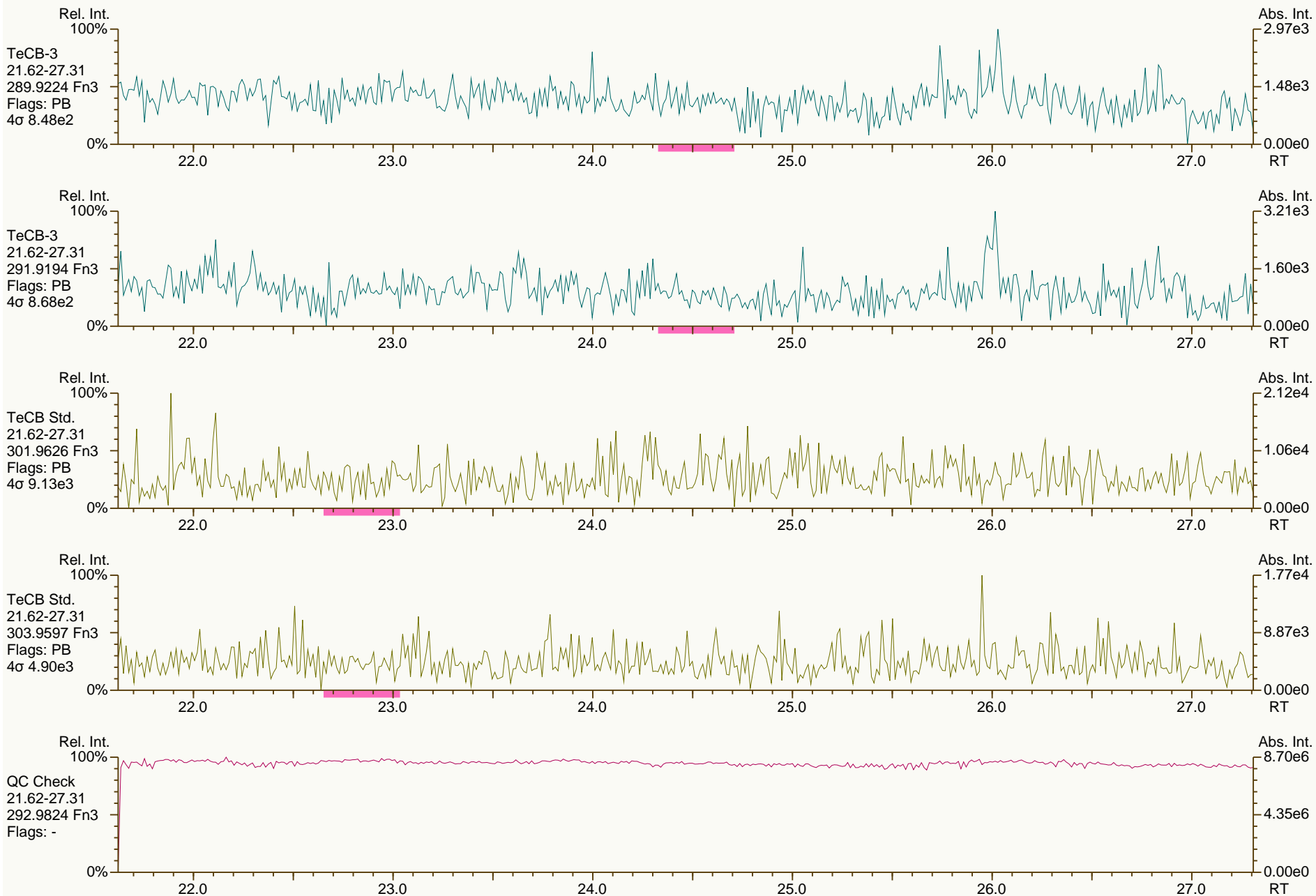
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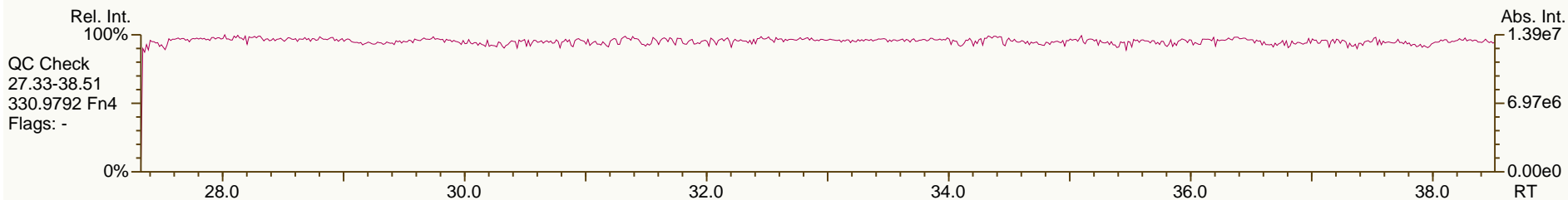
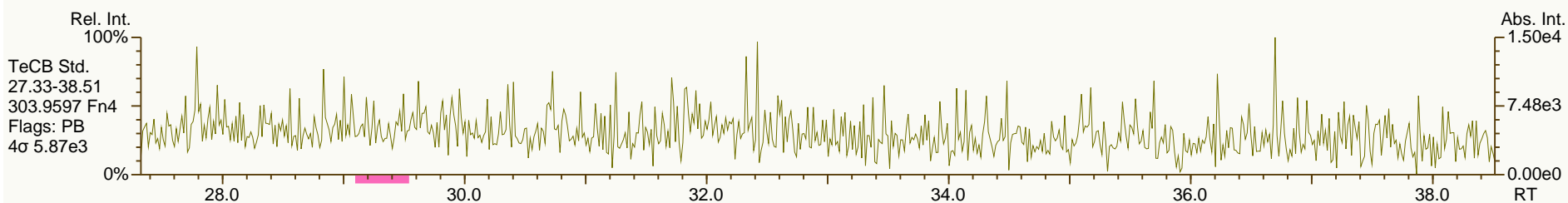
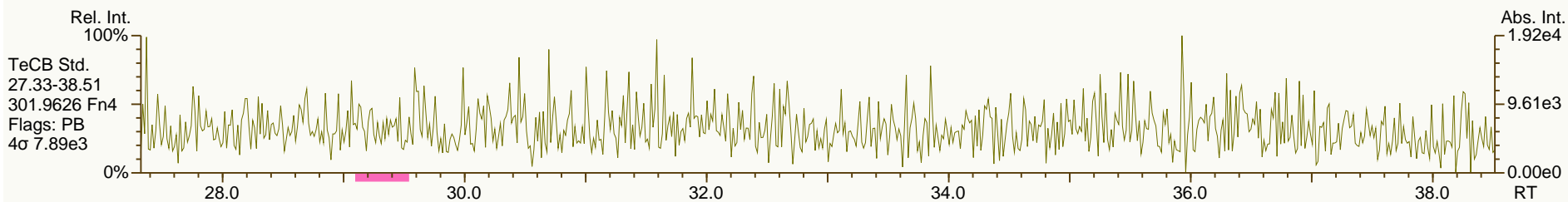
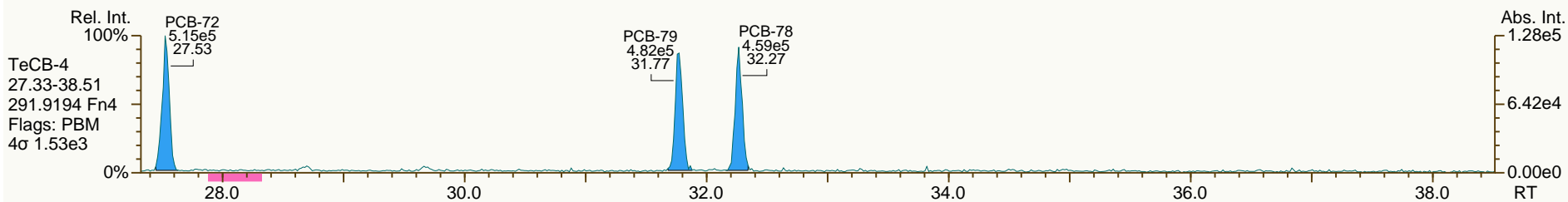
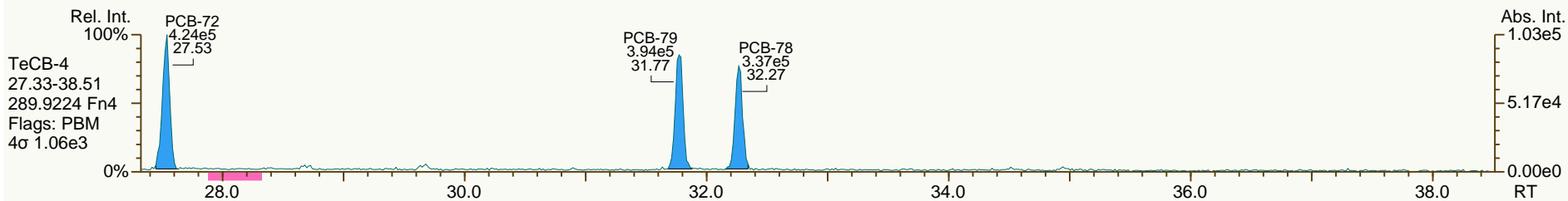
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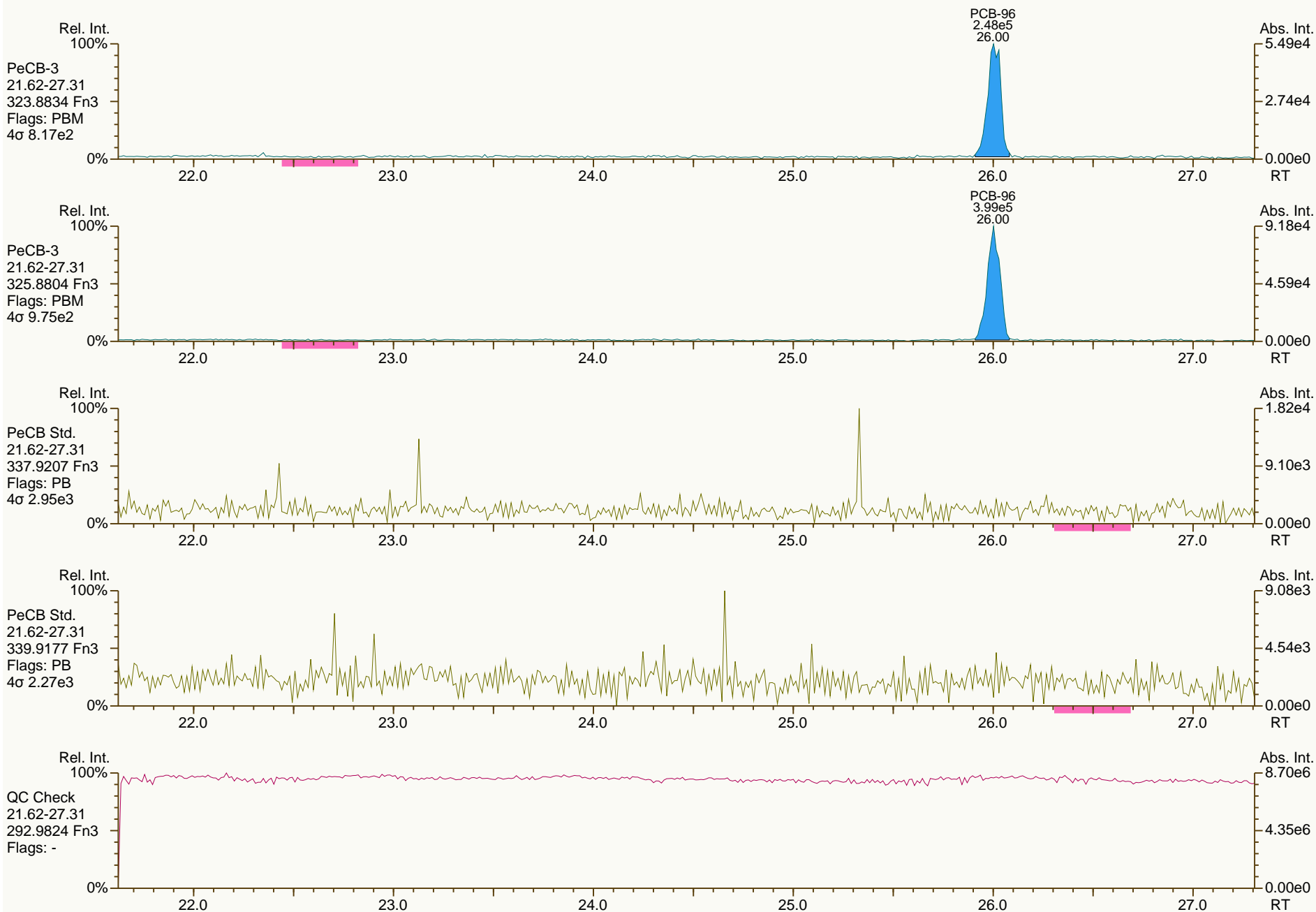
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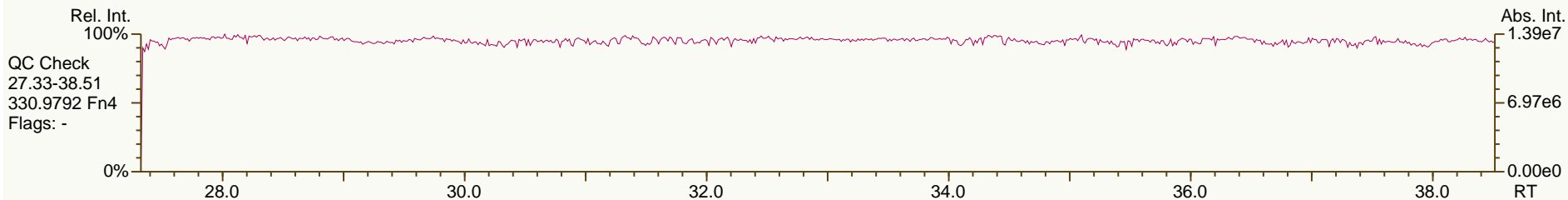
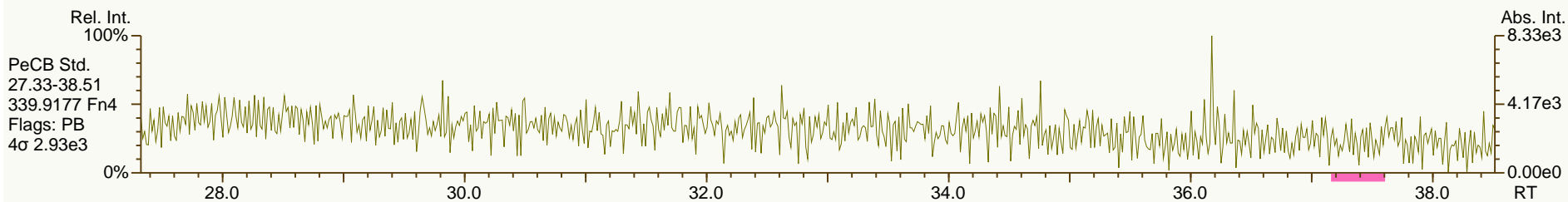
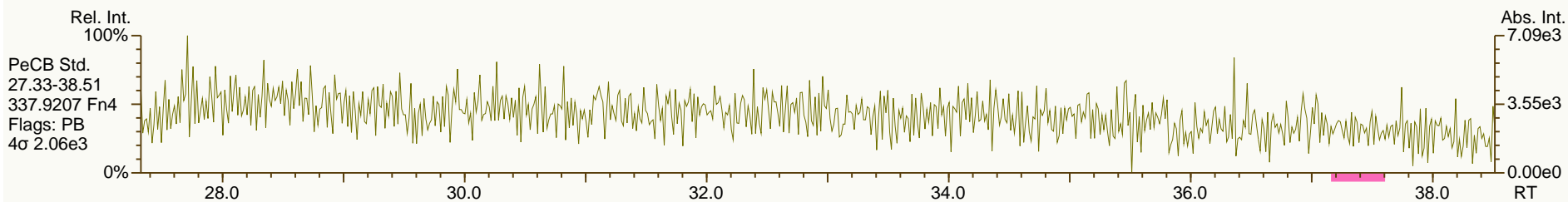
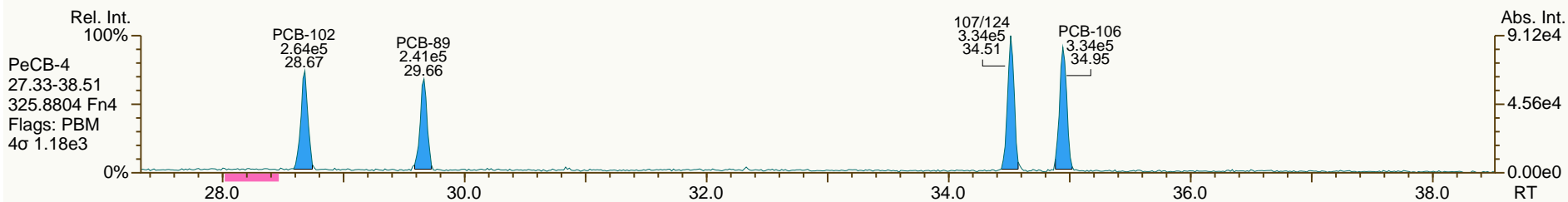
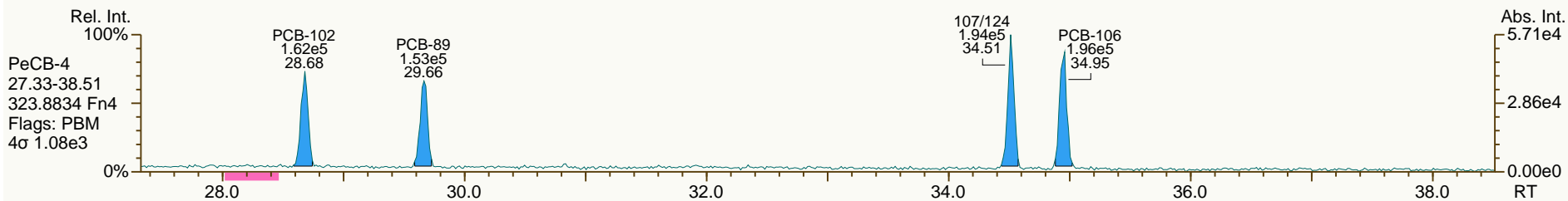
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Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
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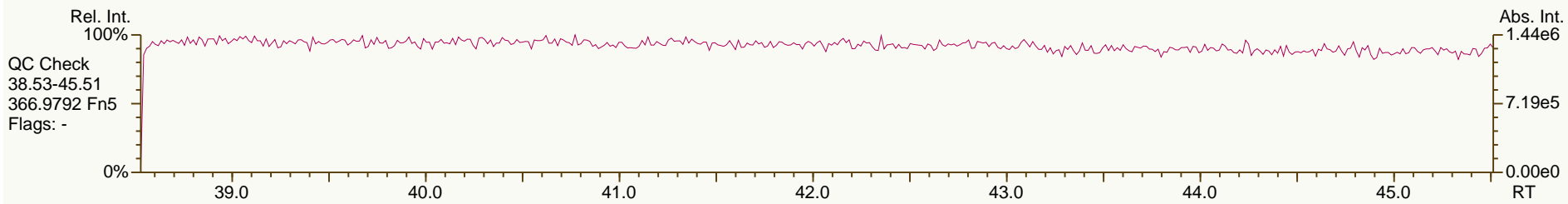
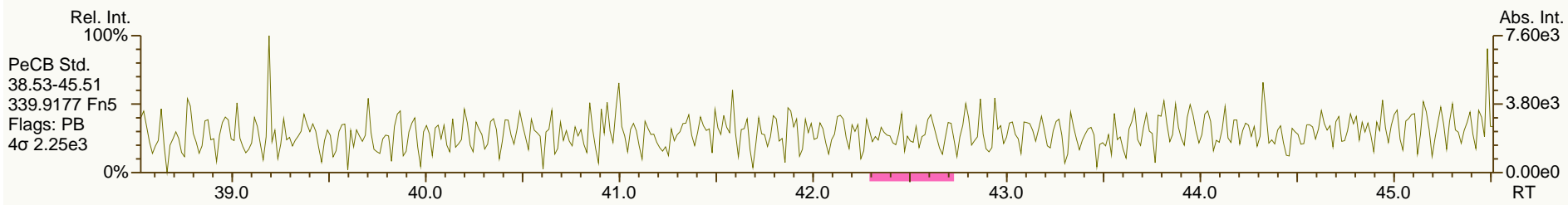
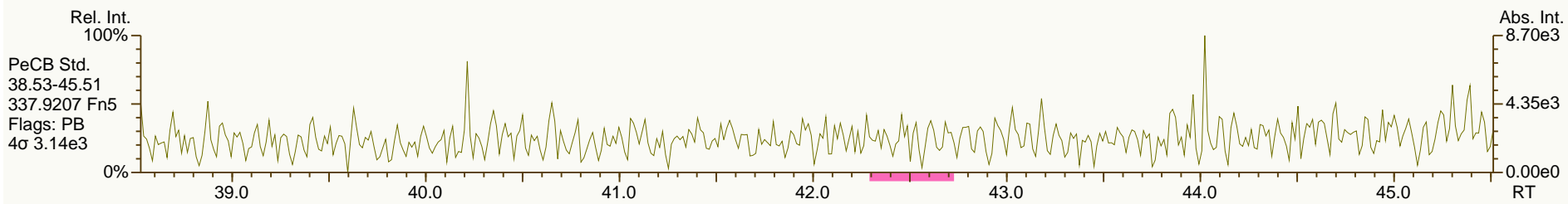
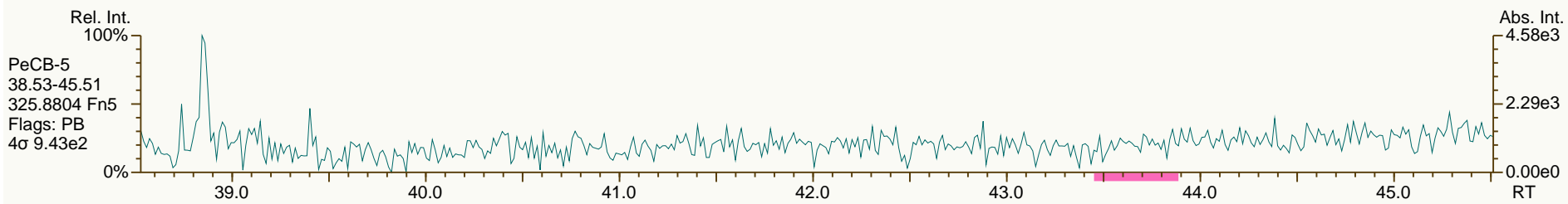
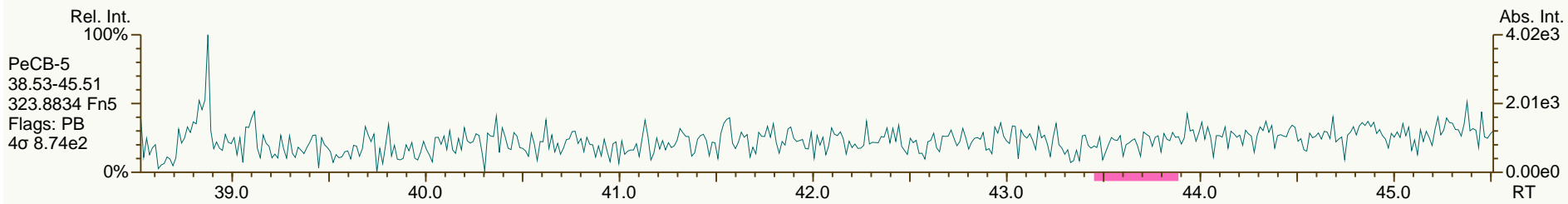
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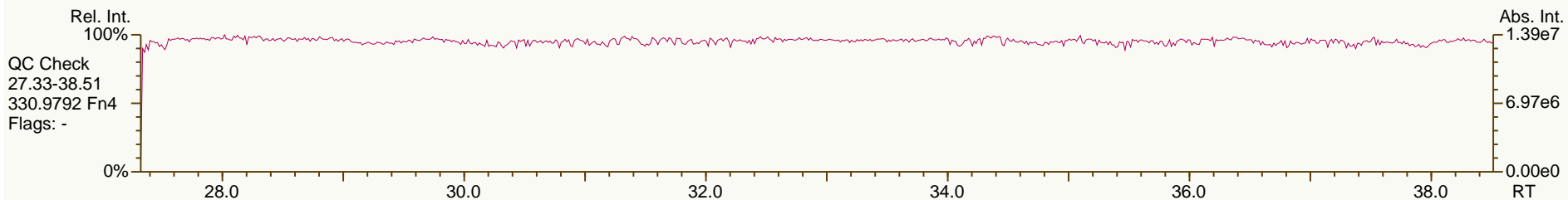
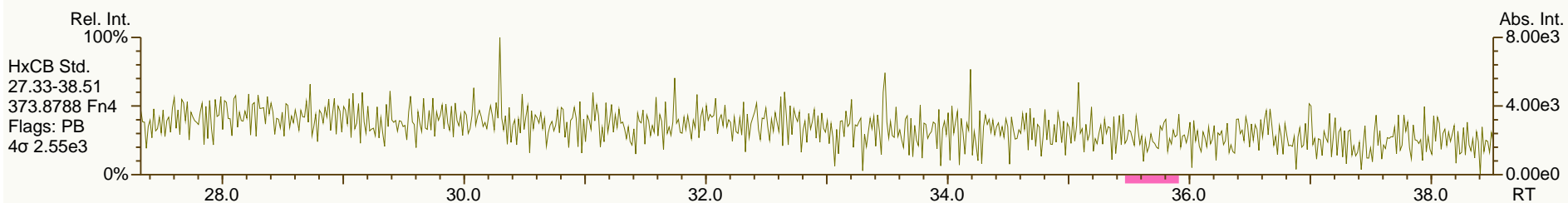
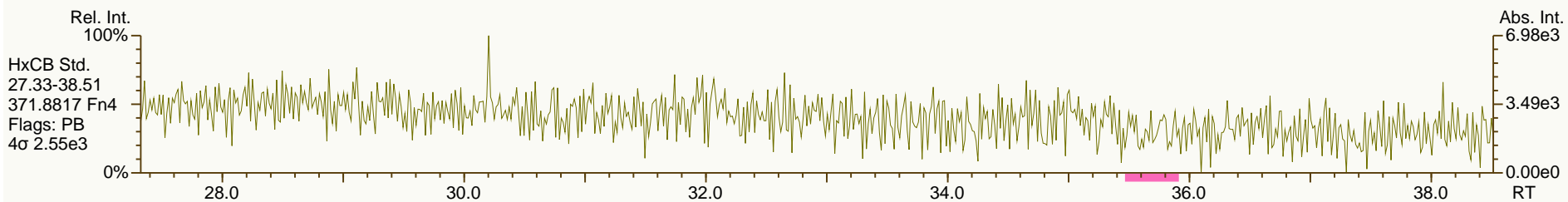
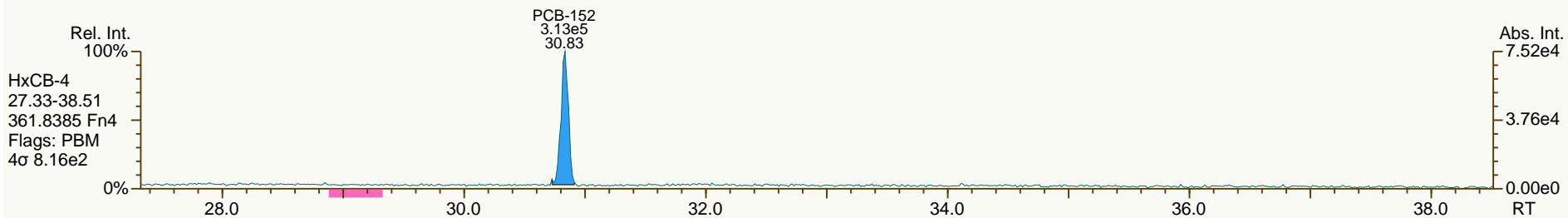
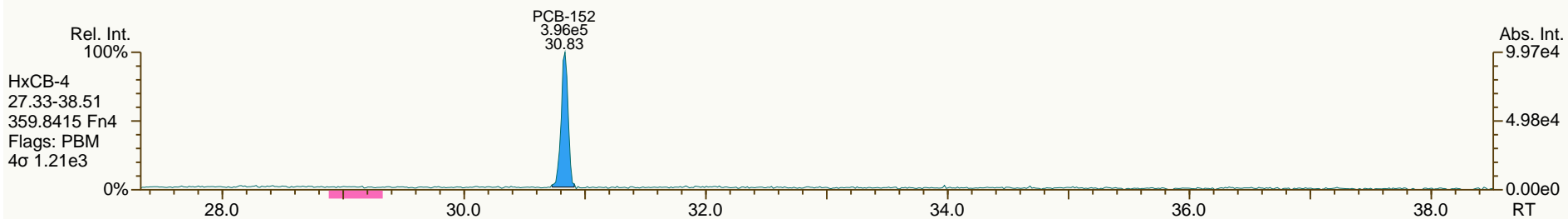
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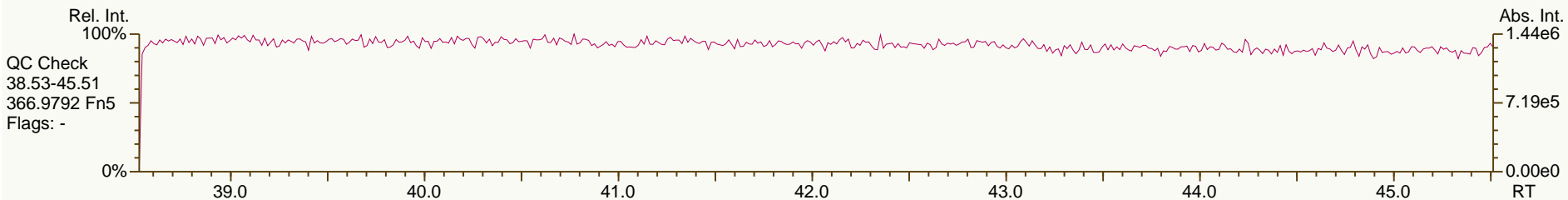
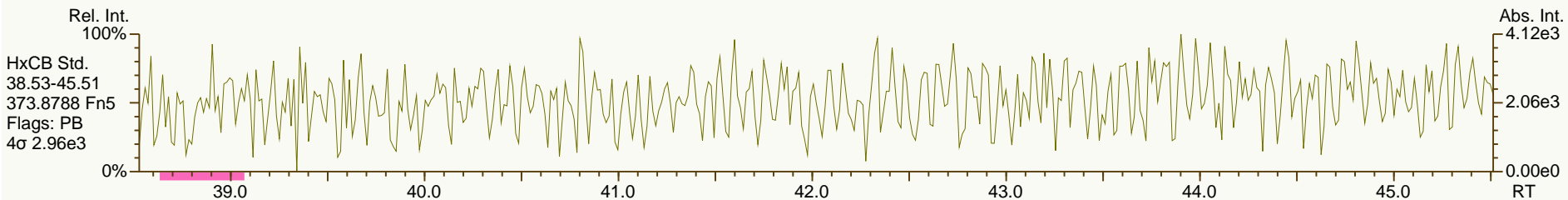
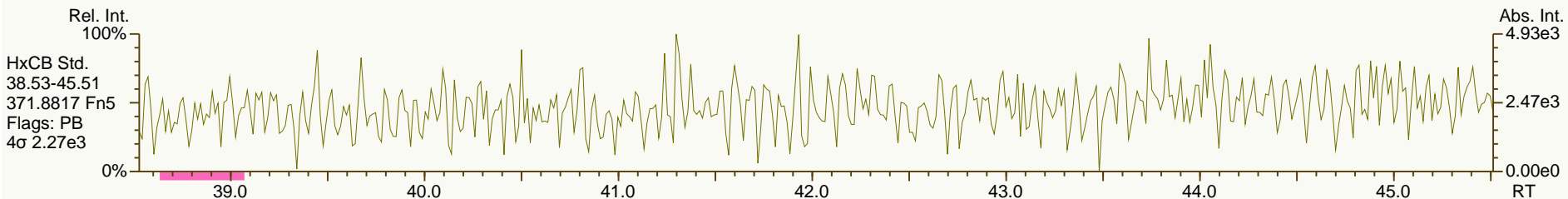
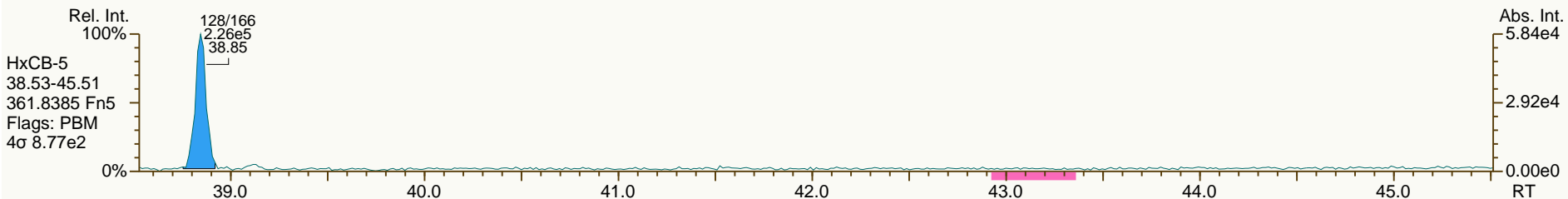
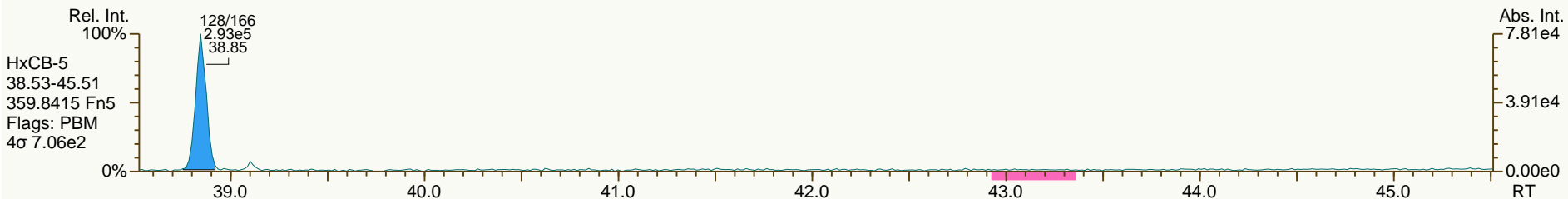




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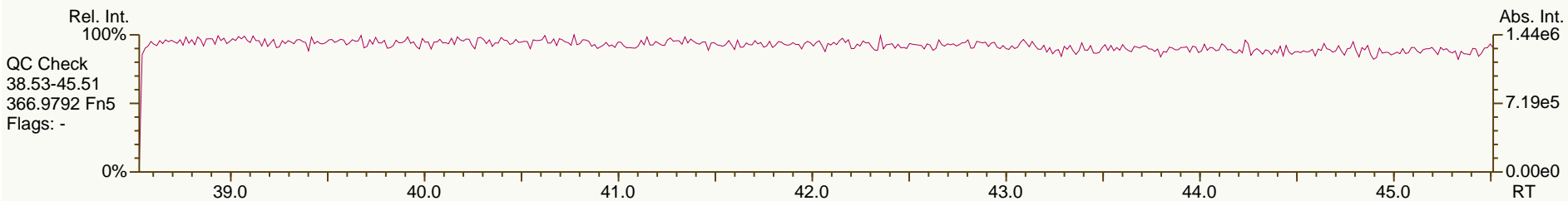
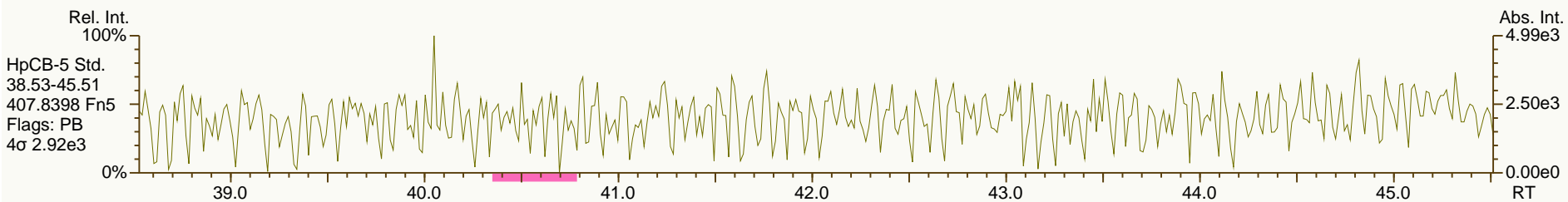
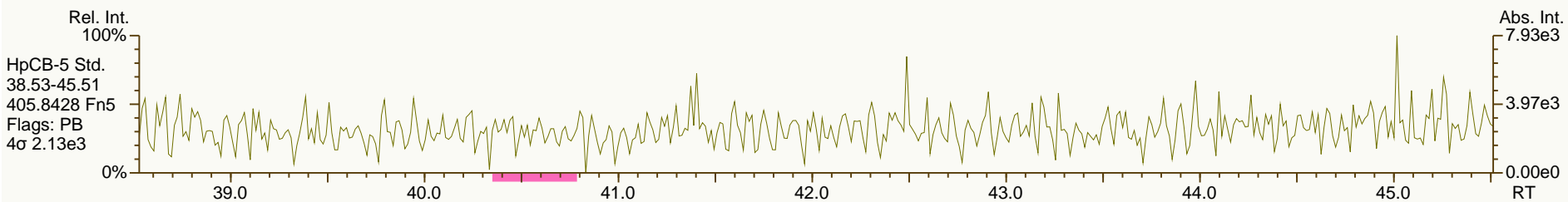
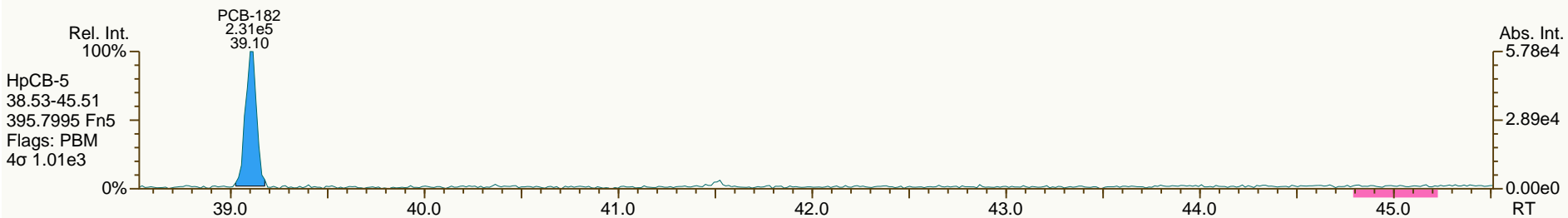
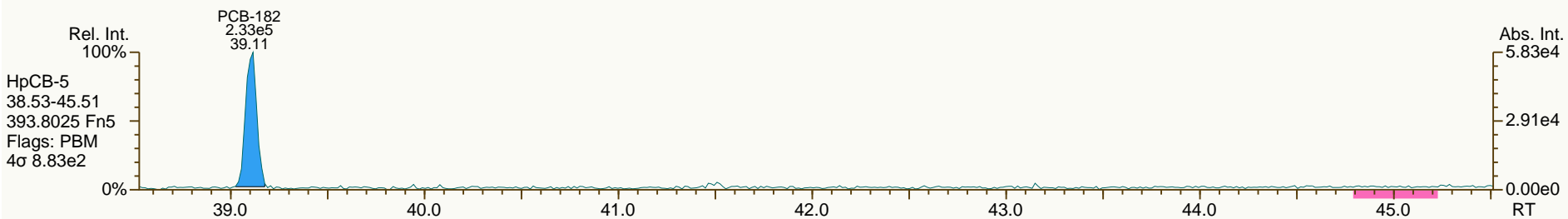
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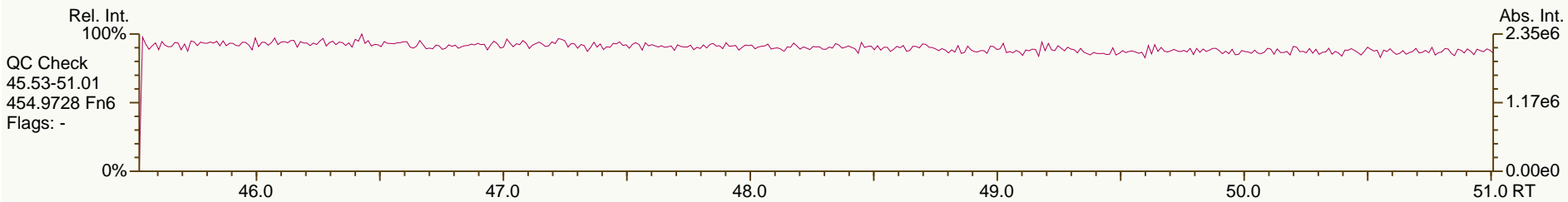
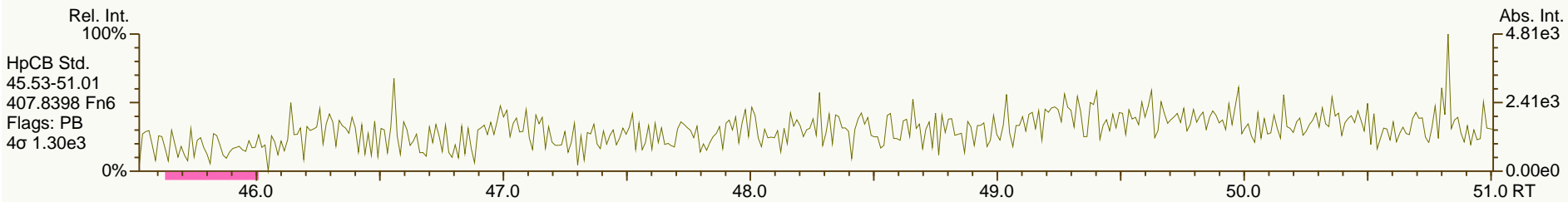
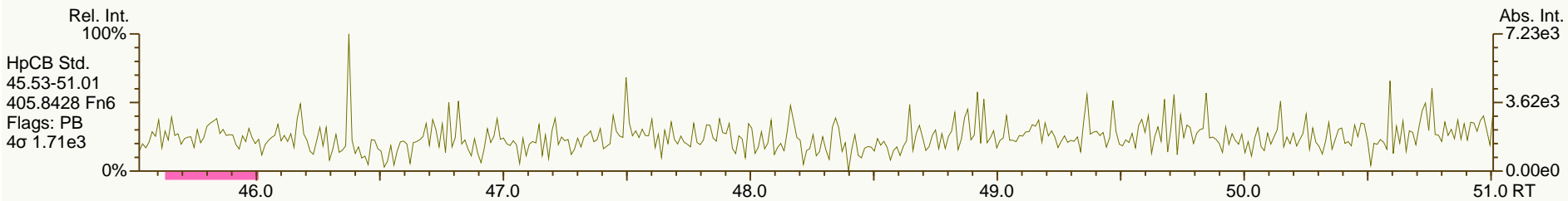
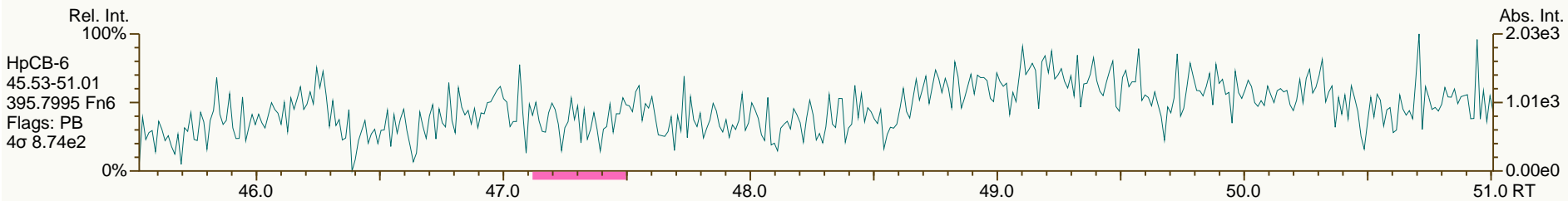
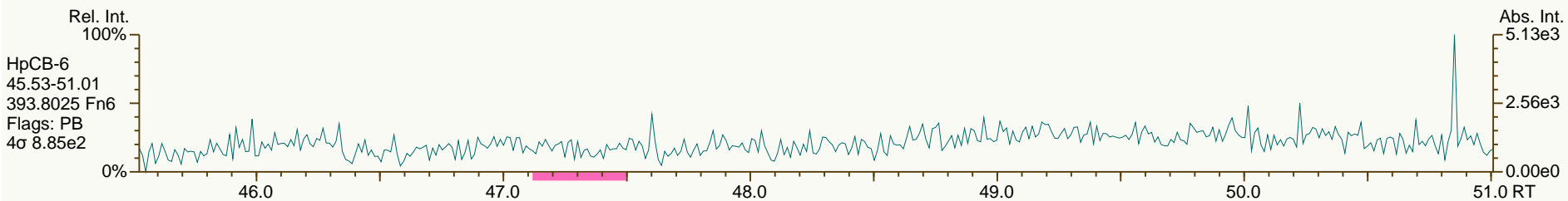
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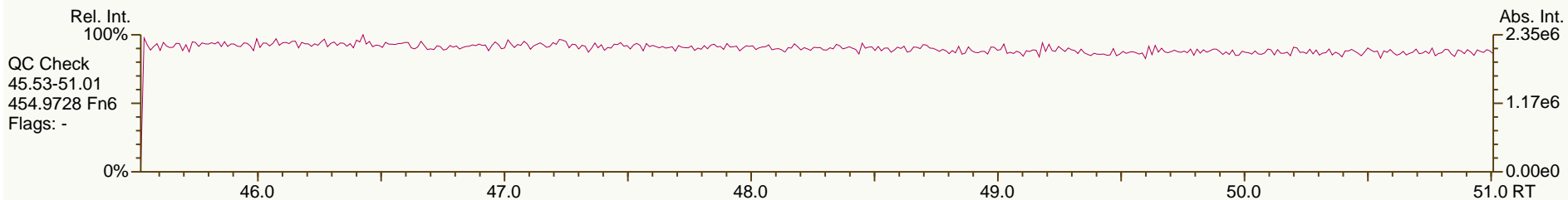
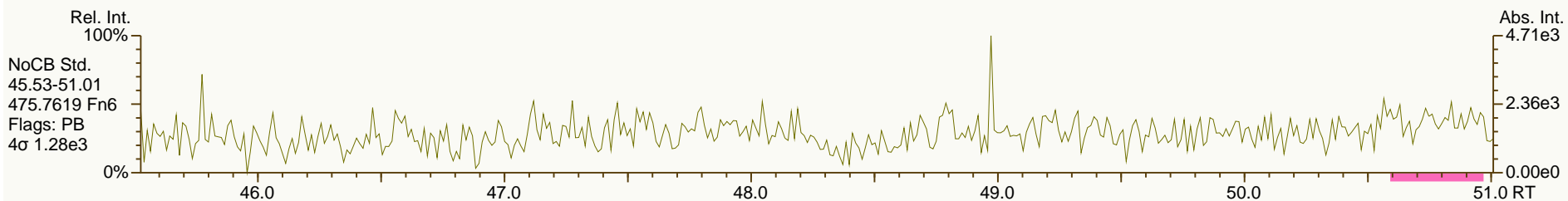
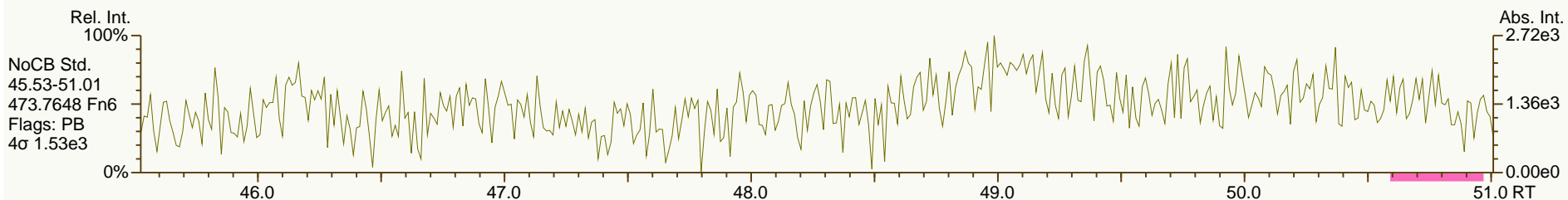
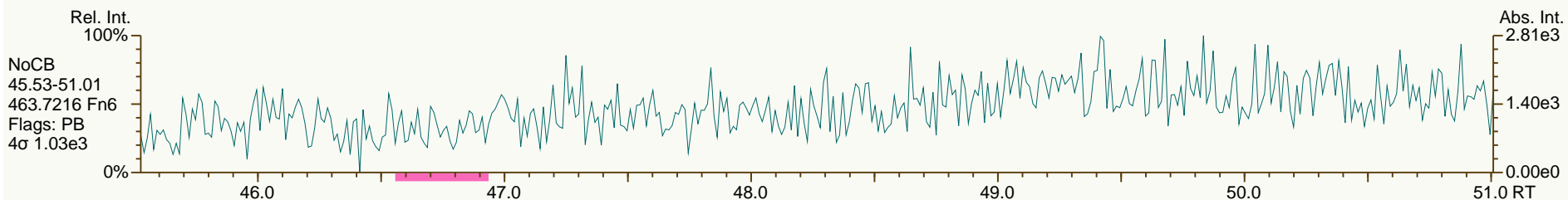
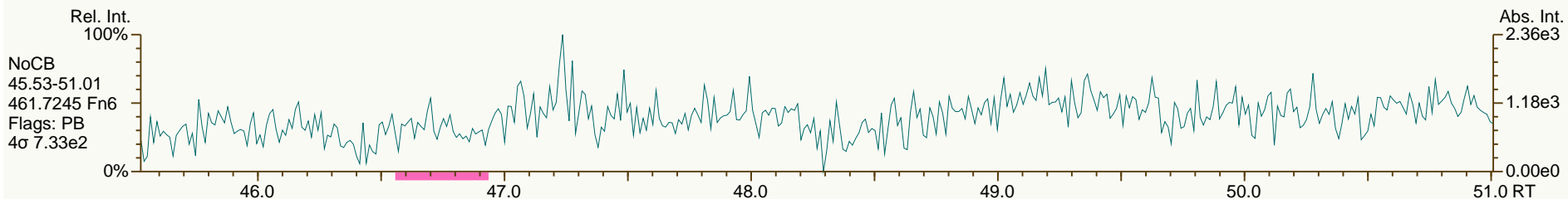
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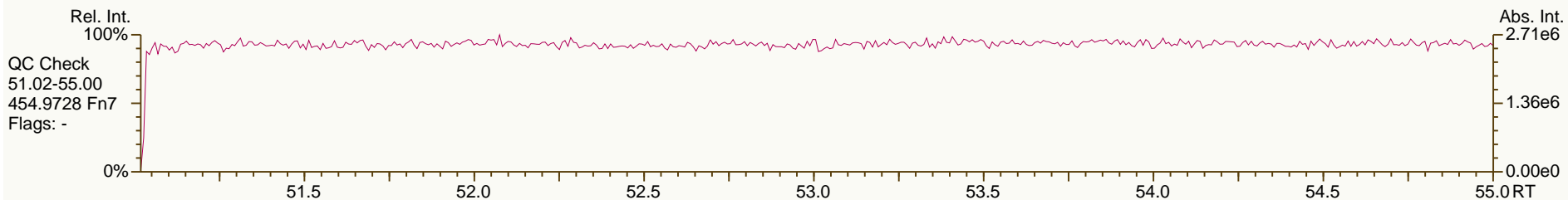
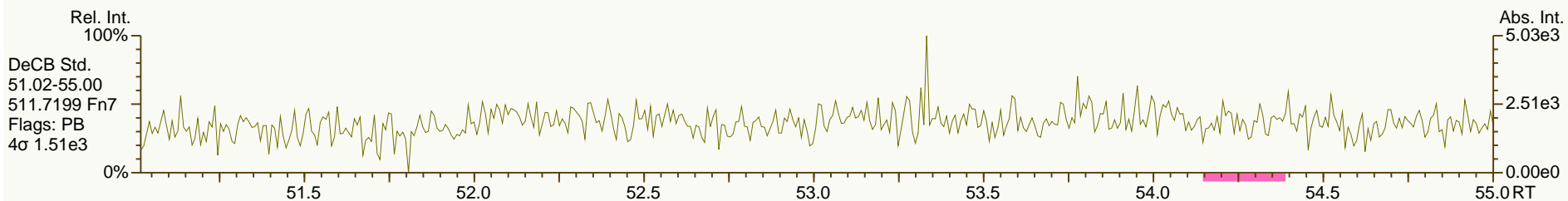
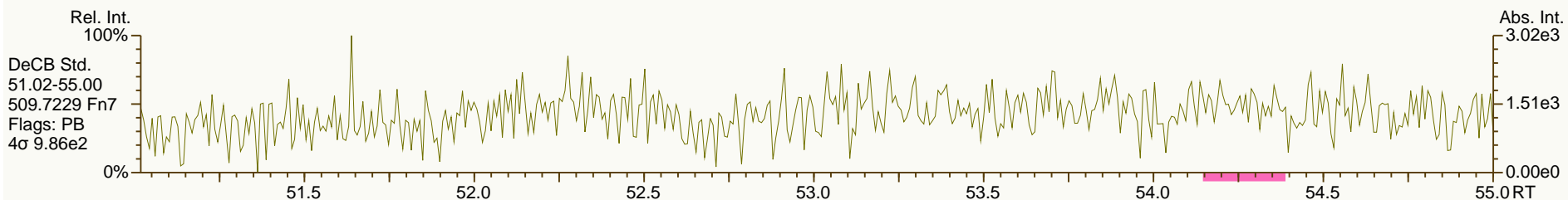
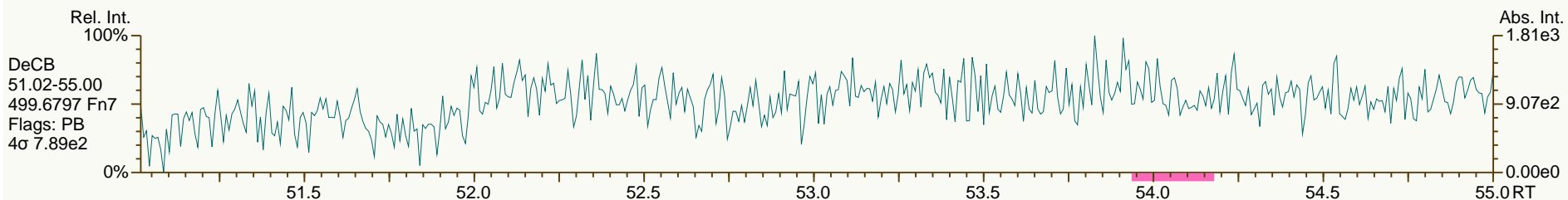
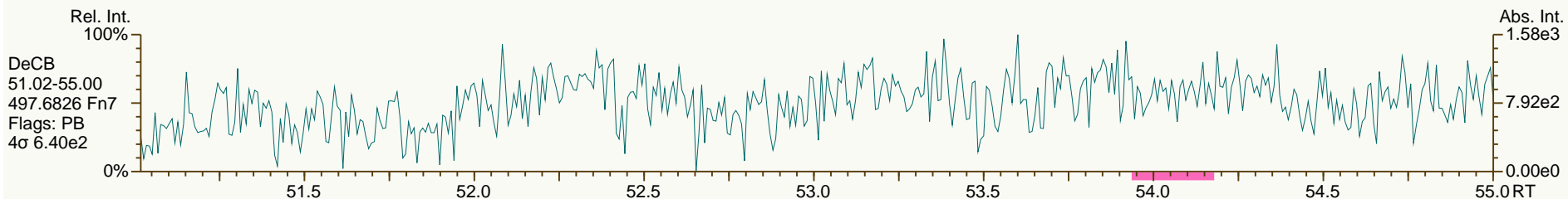
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 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

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## Experiment Calibration Report

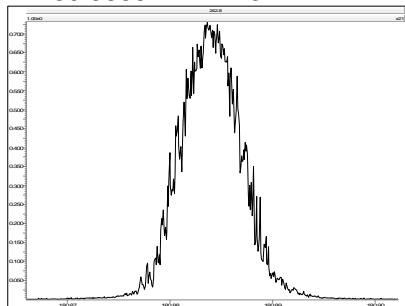
## MassLynx 4.1

Page 1 of 1

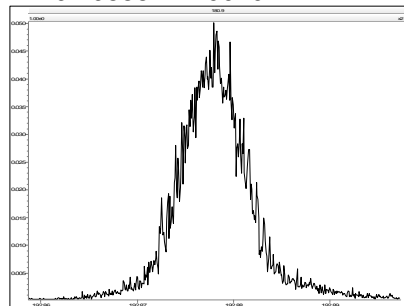
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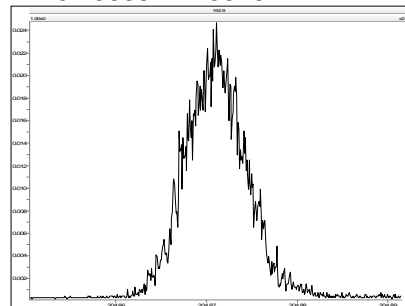
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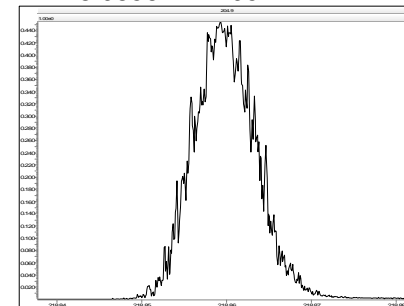
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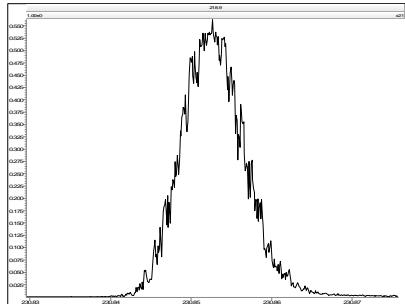
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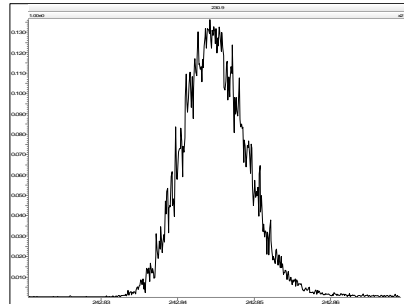
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M 230.9856 R 12562



M 242.9856 R 12690



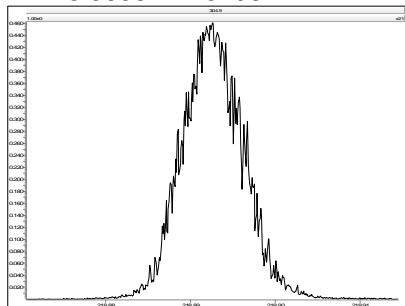
## Experiment Calibration Report

## MassLynx 4.1

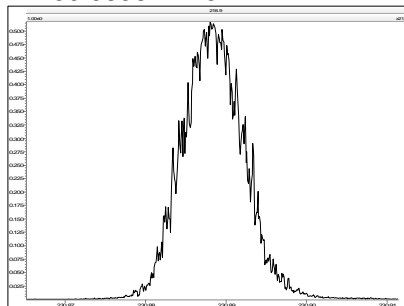
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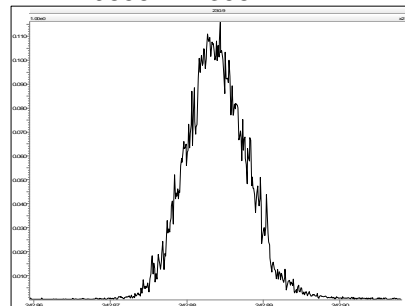
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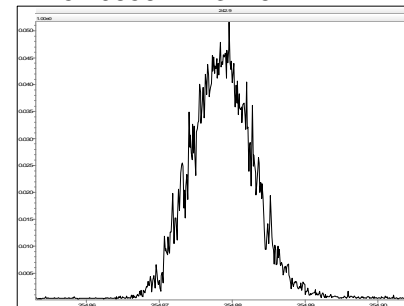
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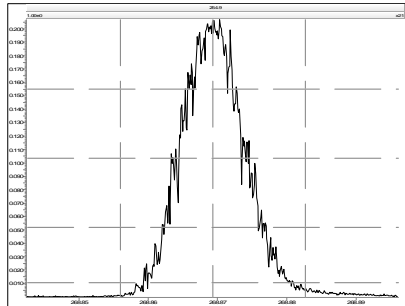
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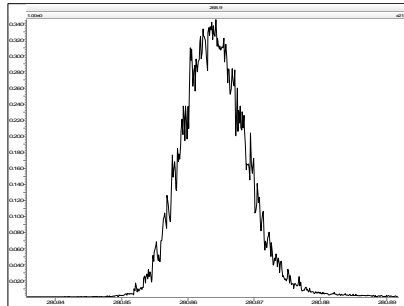
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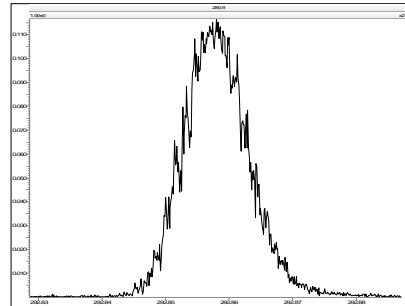
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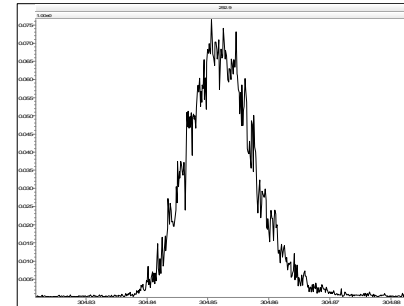
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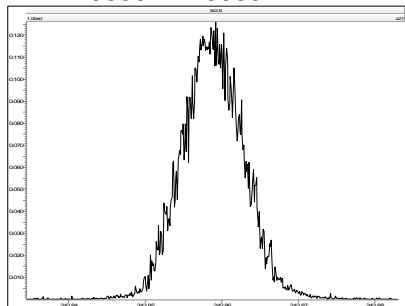
## Experiment Calibration Report

## MassLynx 4.1

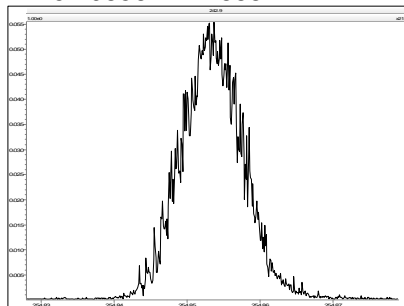
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 24, 2014 13:38:08 Eastern Daylight Time

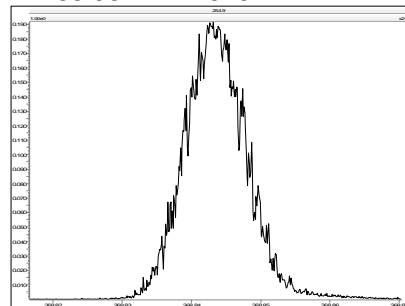
M 242.9856 R 13889



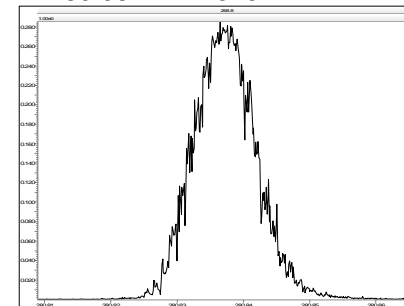
M 254.9856 R 12888



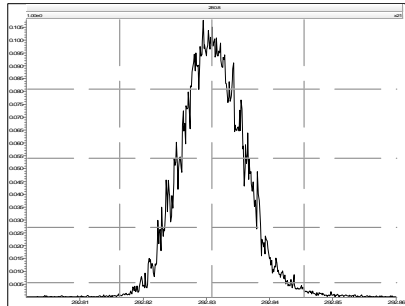
M 268.9824 R 13297



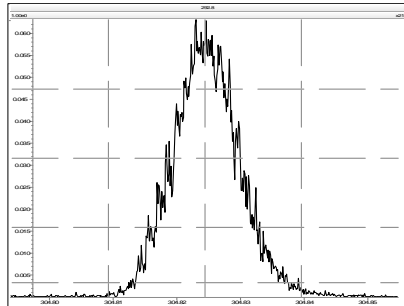
M 280.9824 R 13154



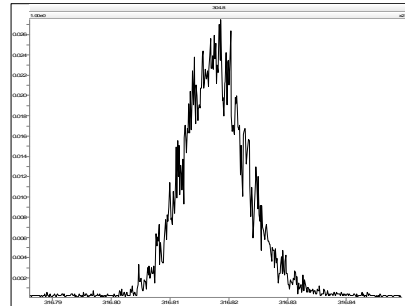
M 292.9824 R 13158



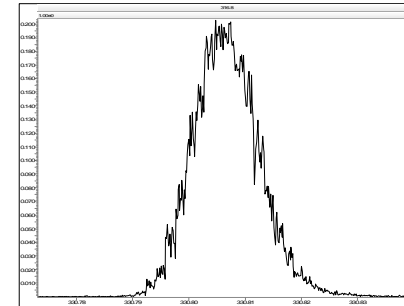
M 304.9824 R 12630



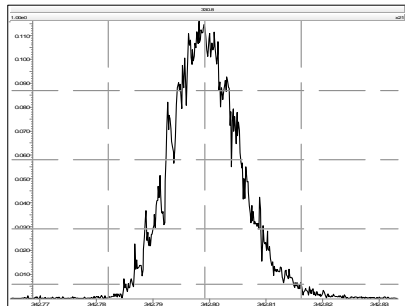
M 316.9824 R 13022



M 330.9792 R 11848



M 342.9792 R 12075



## Experiment Calibration Report

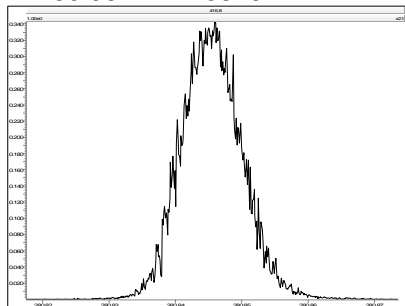
## MassLynx 4.1

Page 1 of 1

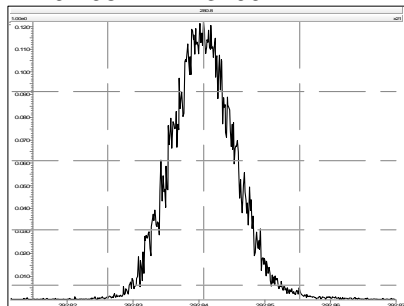
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 4 @ 200 (ppm)

Printed: Monday, March 24, 2014 13:38:38 Eastern Daylight Time

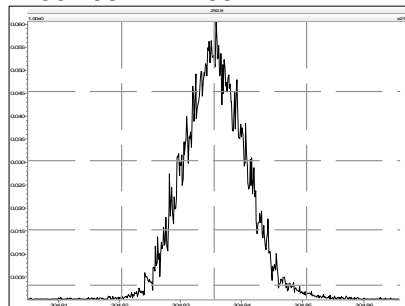
M 280.9824 R 13816



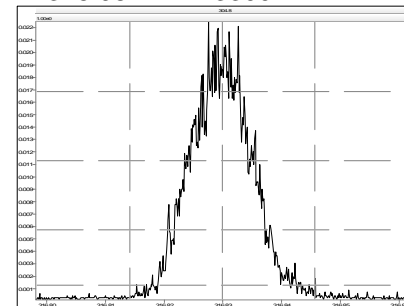
M 292.9824 R 13299



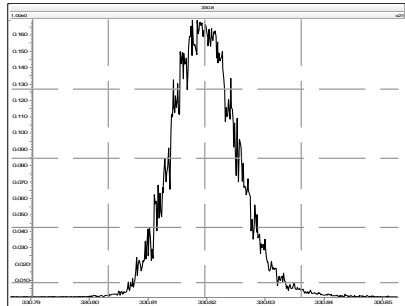
M 304.9824 R 13817



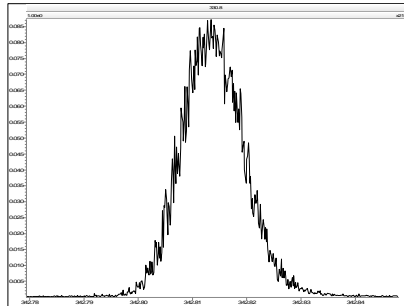
M 316.9824 R 13300



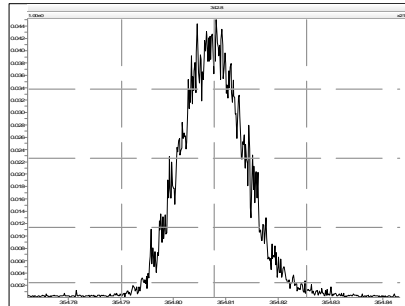
M 330.9792 R 13513



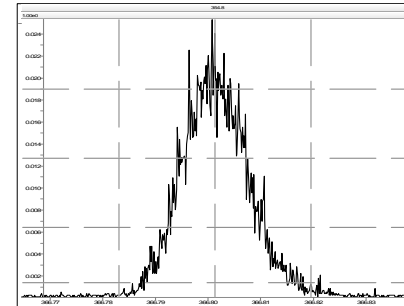
M 342.9792 R 13155



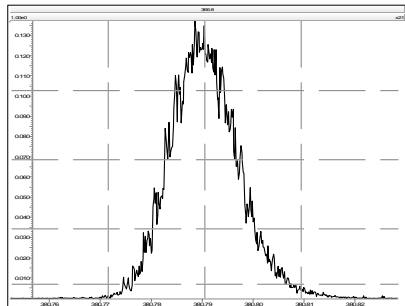
M 354.9792 R 13084



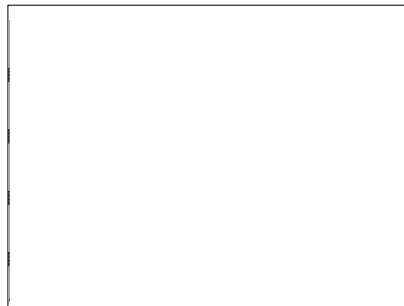
M 366.9792 R 12562



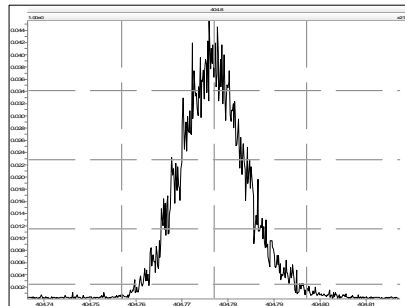
M 380.9760 R 12257



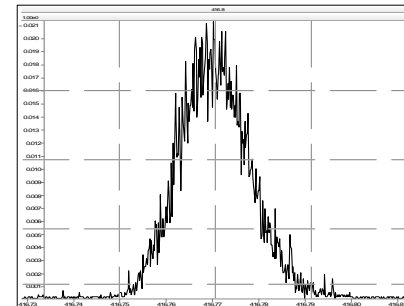
M 392.9760 R 12255



M 404.9760 R 11965



M 416.9760 R 12074



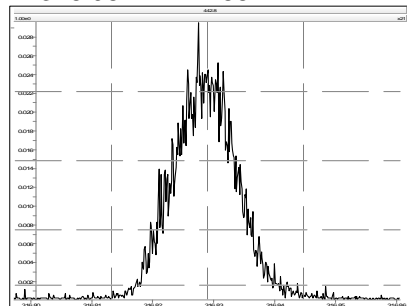
## Experiment Calibration Report

## MassLynx 4.1

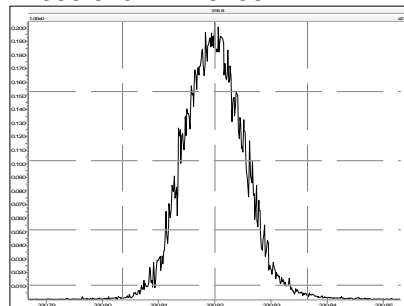
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 5 @ 200 (ppm)

Printed: Monday, March 24, 2014 13:39:07 Eastern Daylight Time

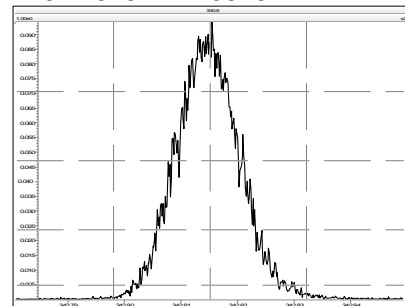
M 316.9824 R 12882



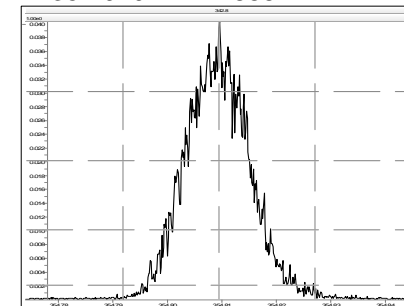
M 330.9792 R 13736



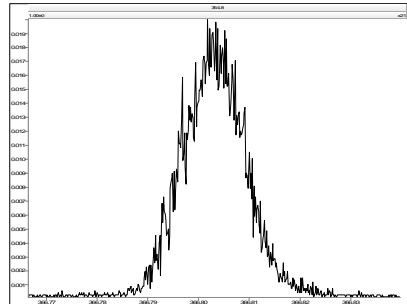
M 342.9792 R 13810



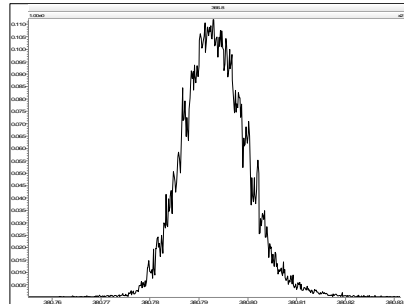
M 354.9792 R 12888



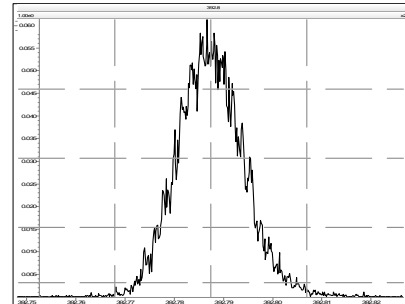
M 366.9792 R 13226



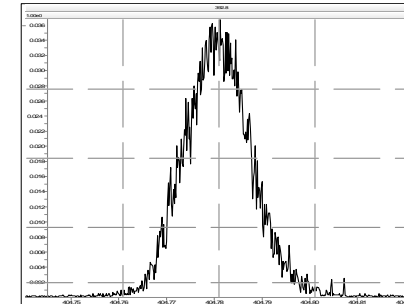
M 380.9760 R 13086



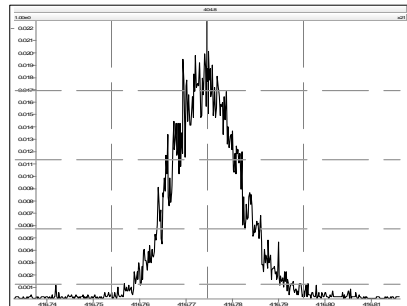
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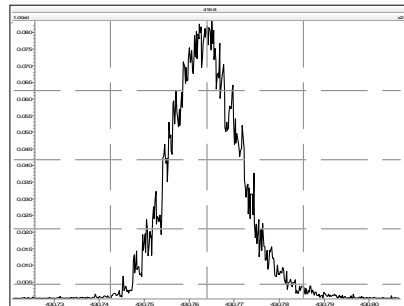
M 404.9760 R 12629



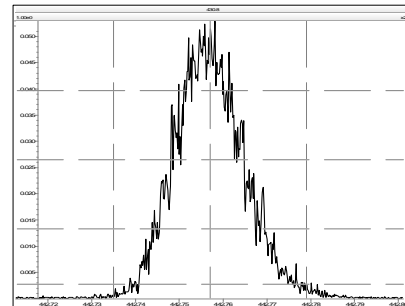
M 416.9760 R 12623



M 430.9728 R 12500



M 442.9728 R 12436



## Experiment Calibration Report

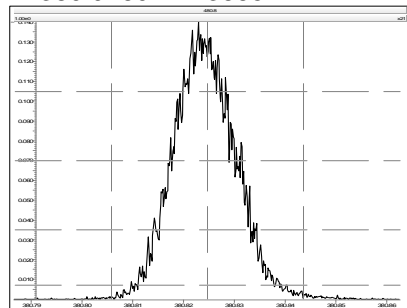
## MassLynx 4.1

Page 1 of 1

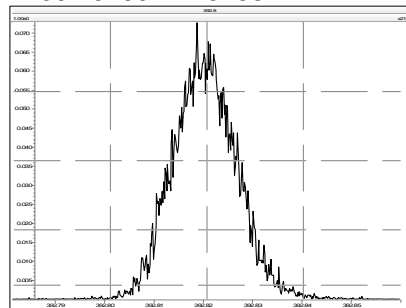
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 6 @ 200 (ppm)

Printed: Monday, March 24, 2014 13:39:37 Eastern Daylight Time

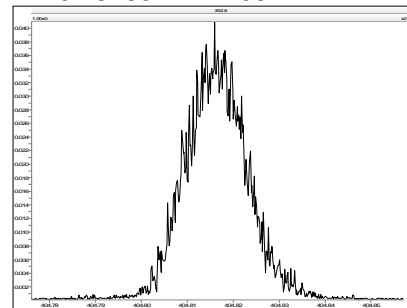
M 380.9760 R 13665



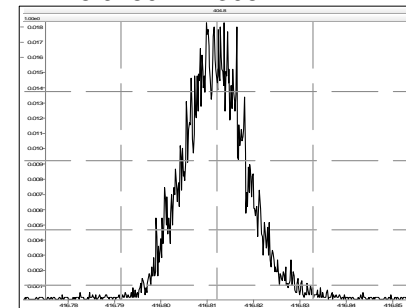
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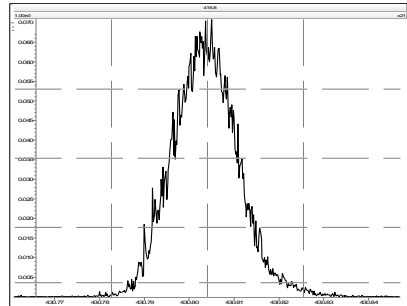
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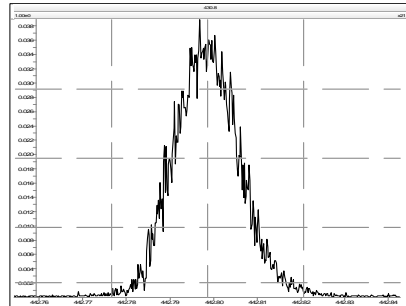
M 416.9760 R 13087



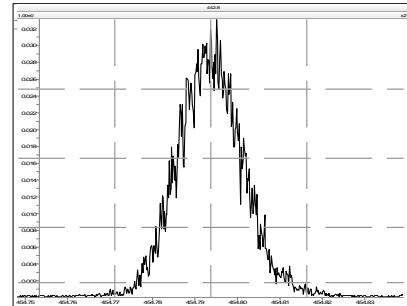
M 430.9728 R 12687



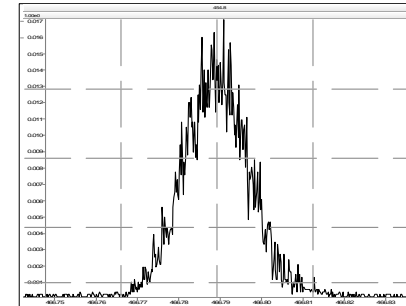
M 442.9728 R 13586



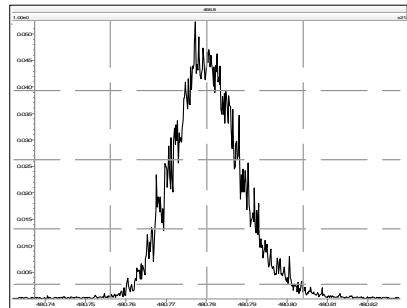
M 454.9728 R 12253



M 466.9728 R 12255



M 480.9696 R 12194



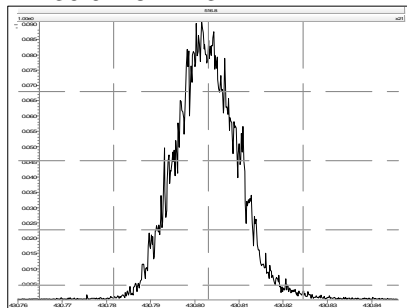
## Experiment Calibration Report

## MassLynx 4.1

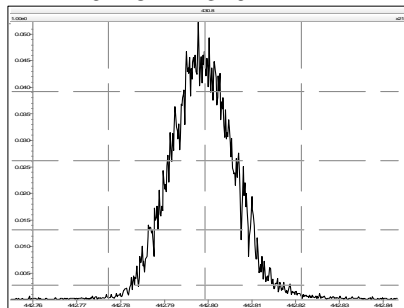
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Printed: Monday, March 24, 2014 13:40:03 Eastern Daylight Time

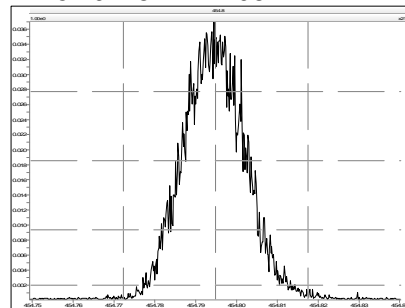
M 430.9728 R 13442



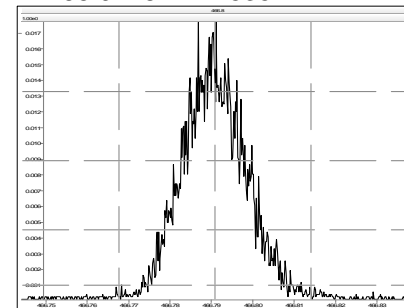
M 442.9728 R 13297



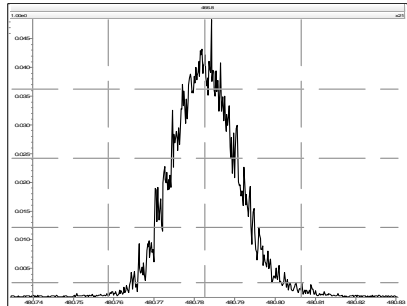
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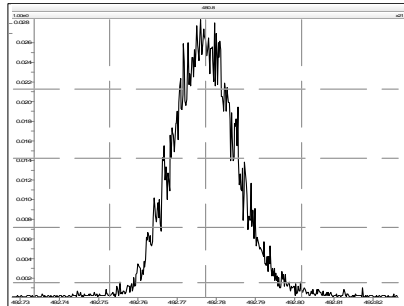
M 466.9728 R 14535



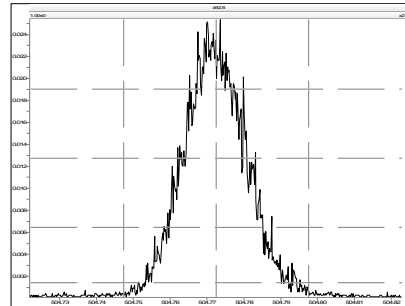
M 480.9696 R 13020



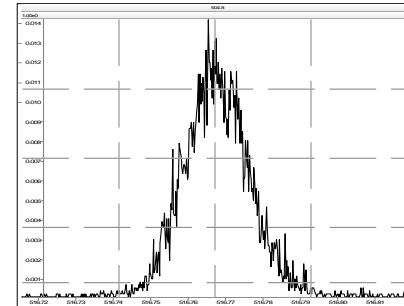
M 492.9696 R 13515



M 504.9696 R 12886



M 516.9697 R 13663



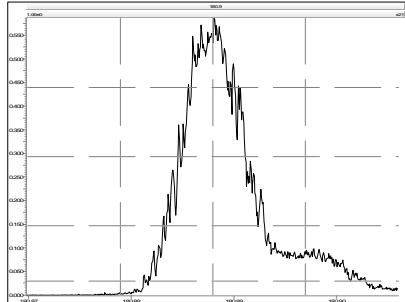
## Resolution Check Report

MassLynx 4.1

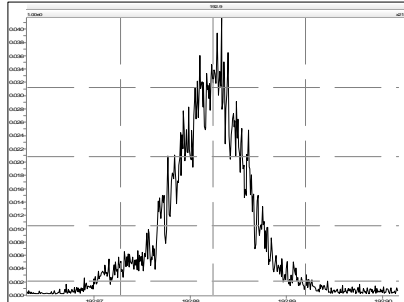
Page 1 of 6

Printed: Monday, March 24, 2014 23:46:15 Eastern Daylight Time

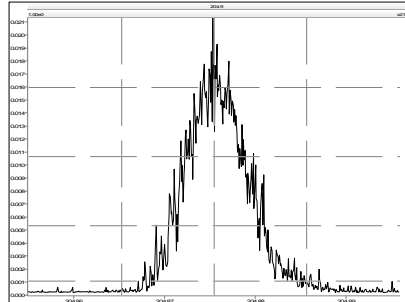
M 180.9888 R 8746



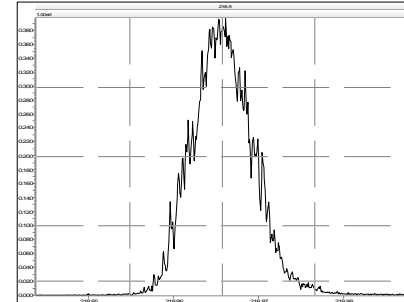
M 192.9888 R 9334



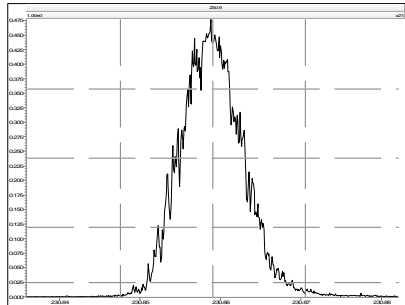
M 204.9888 R 13233



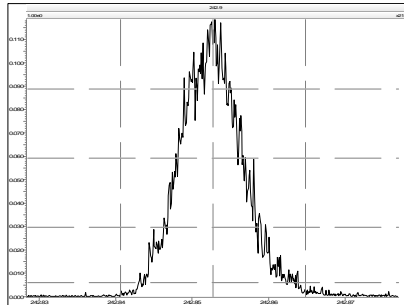
M 218.9856 R 13123



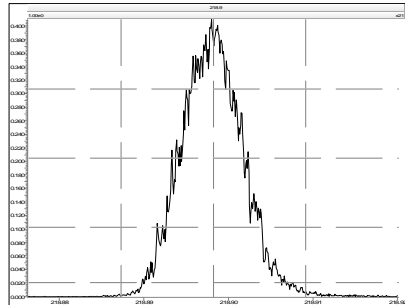
M 230.9856 R 13515



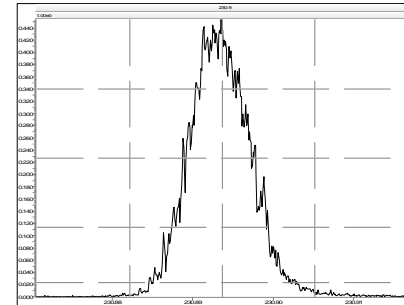
M 242.9856 R 13090



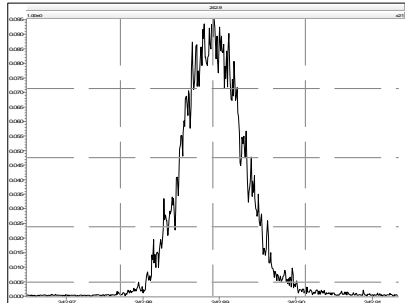
M 218.9856 R 13739



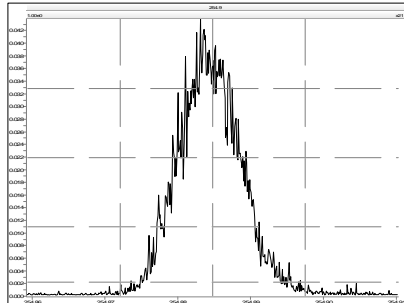
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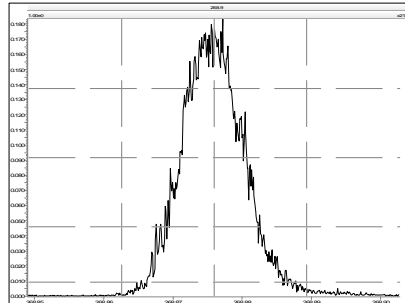
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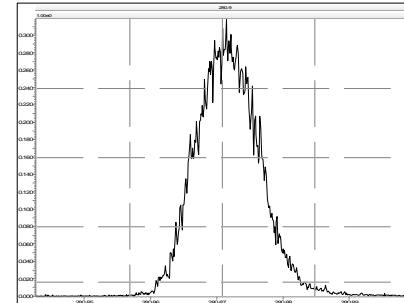
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M 268.9824 R 13409



M 280.9824 R 13020





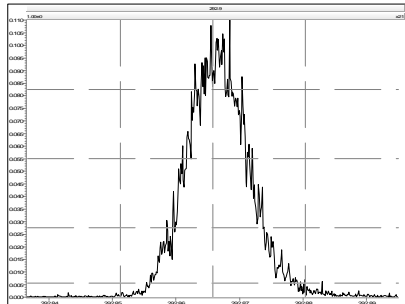
## Resolution Check Report

MassLynx 4.1

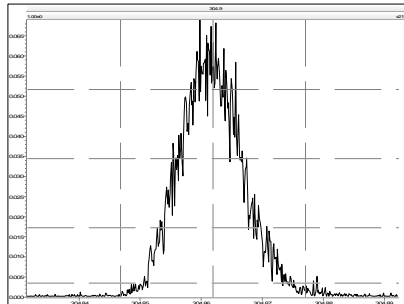
Page 2 of 6

Printed: Monday, March 24, 2014 23:46:15 Eastern Daylight Time

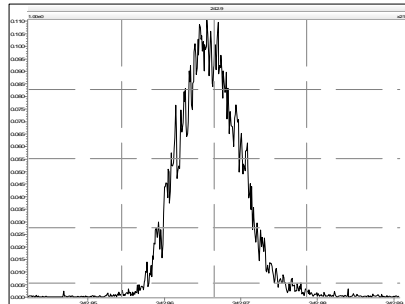
M 292.9824 R 13263



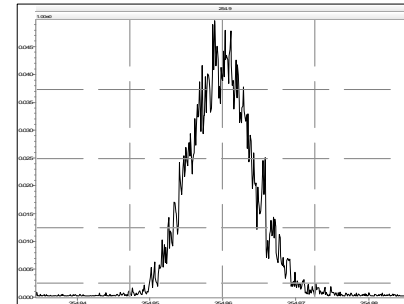
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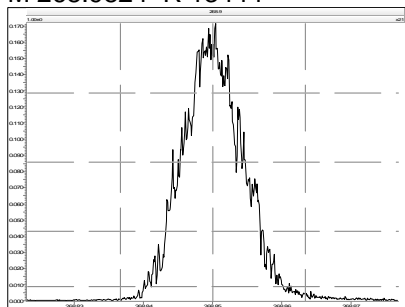
M 242.9856 R 14089



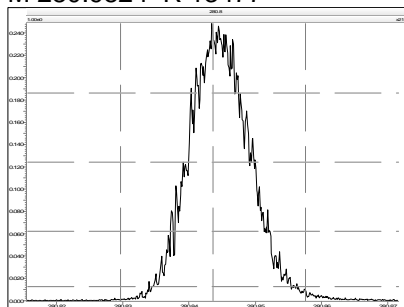
M 254.9856 R 13281



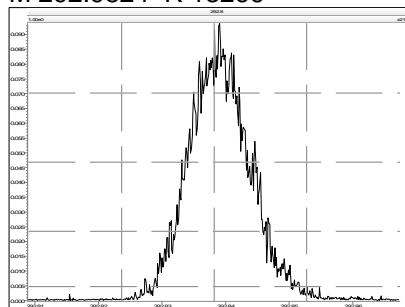
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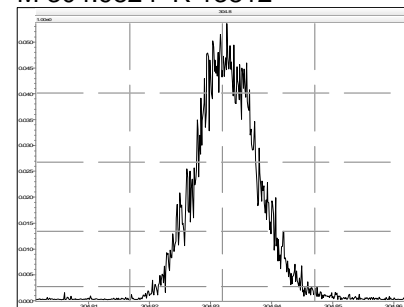
M 280.9824 R 13477



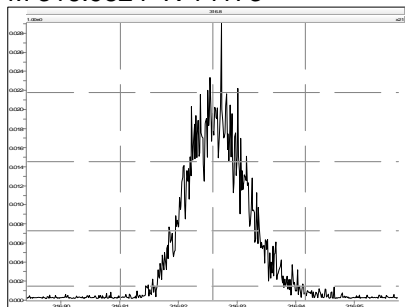
M 292.9824 R 13266



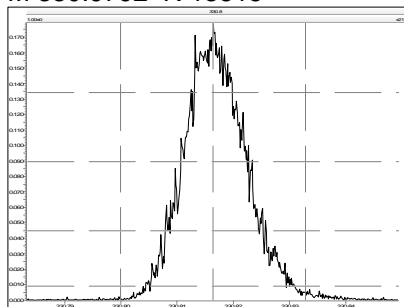
M 304.9824 R 13812



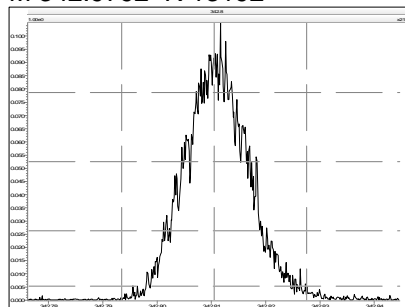
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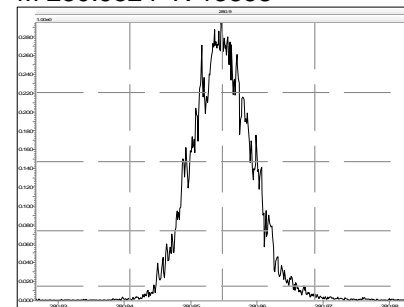
M 330.9792 R 13515



M 342.9792 R 13192



M 280.9824 R 13858



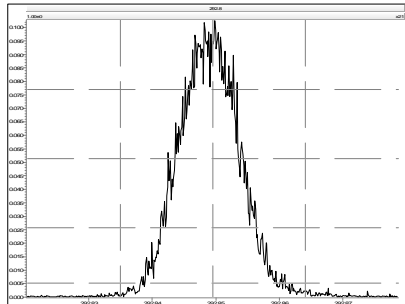
## Resolution Check Report

MassLynx 4.1

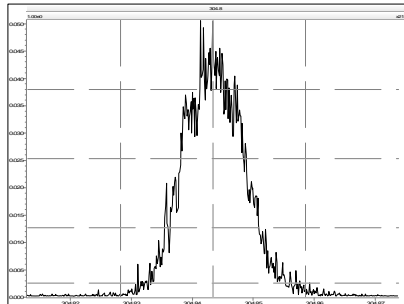
Page 3 of 6

Printed: Monday, March 24, 2014 23:46:15 Eastern Daylight Time

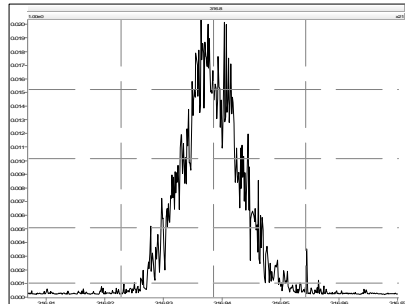
M 292.9824 R 13818



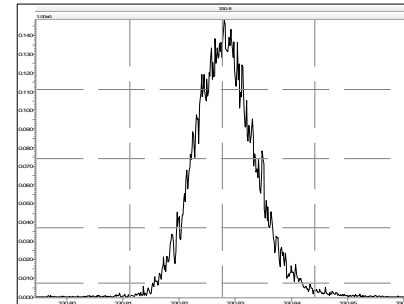
M 304.9824 R 13968



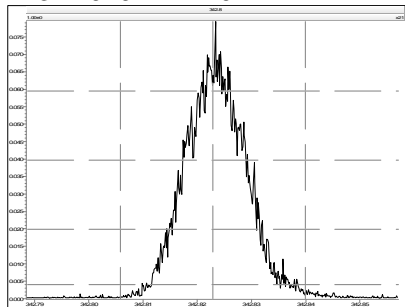
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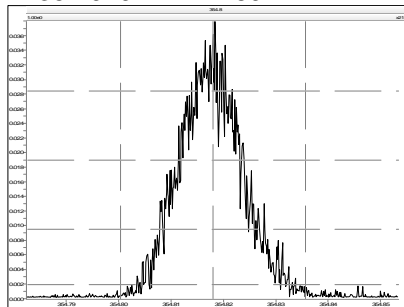
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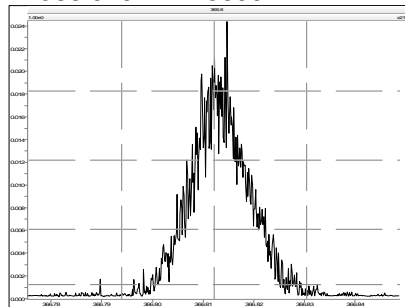
M 342.9792 R 14014



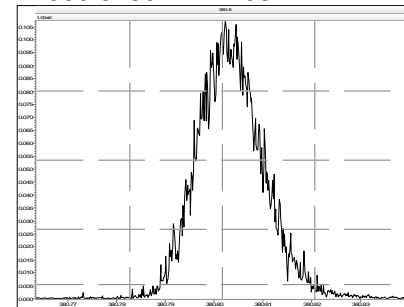
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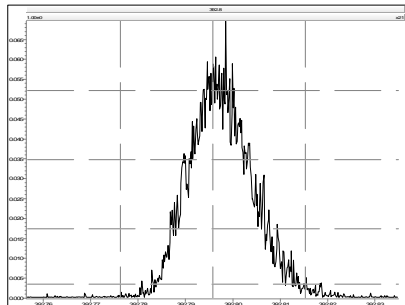
M 366.9792 R 13699



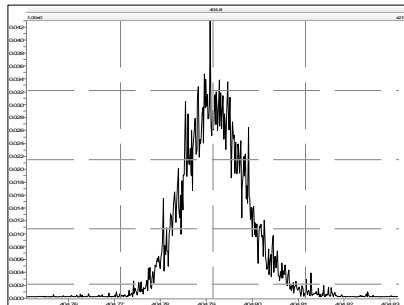
M 380.9760 R 12438



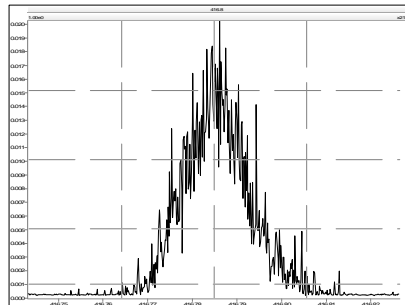
M 392.9760 R 13387



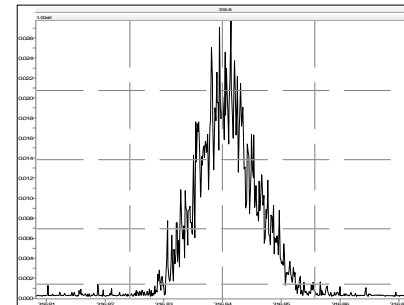
M 404.9760 R 12953



M 416.9760 R 13210



M 316.9824 R 14010



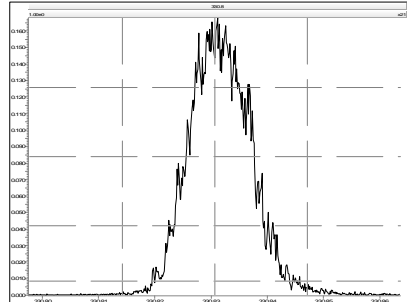
## Resolution Check Report

MassLynx 4.1

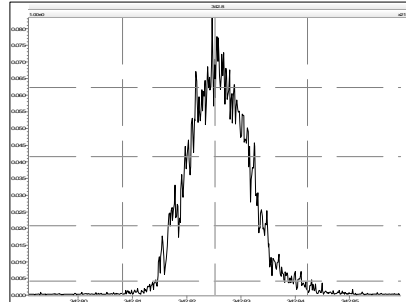
Page 4 of 6

Printed: Monday, March 24, 2014 23:46:15 Eastern Daylight Time

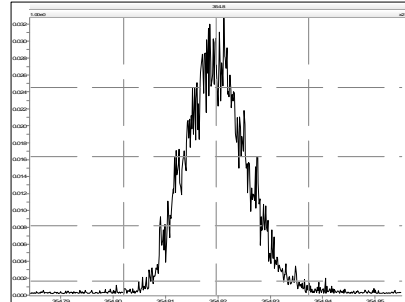
M 330.9792 R 14089



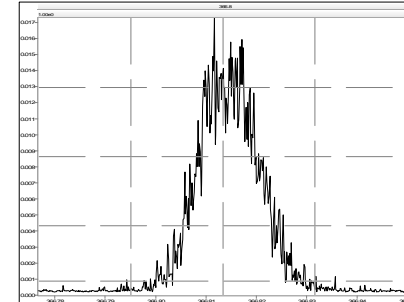
M 342.9792 R 13587



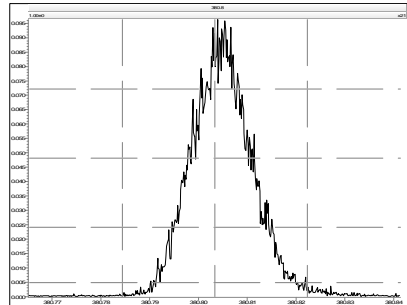
M 354.9792 R 13626



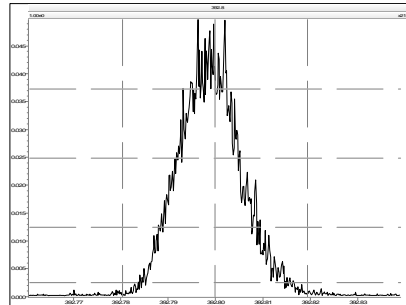
M 366.9792 R 13700



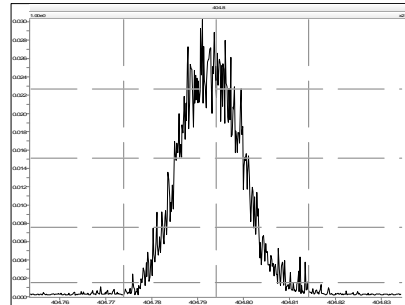
M 380.9760 R 13370



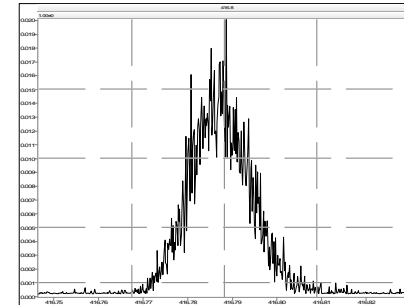
M 392.9760 R 13532



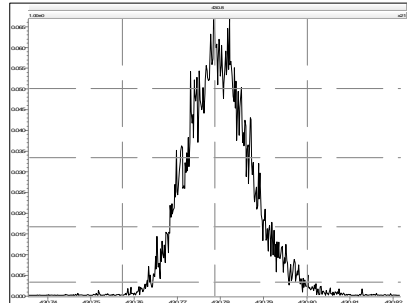
M 404.9760 R 13736



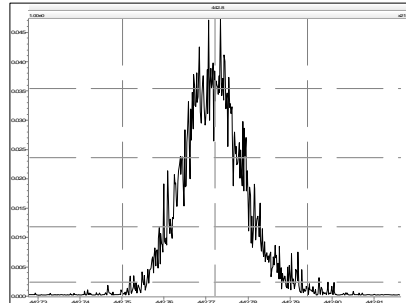
M 416.9760 R 14292



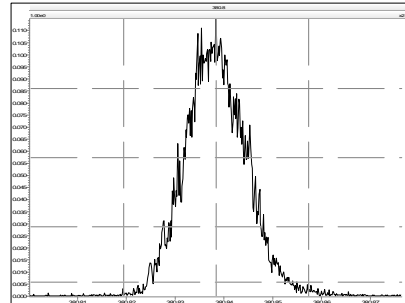
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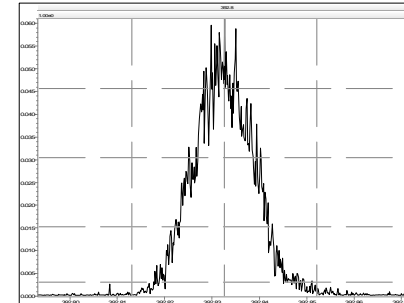
M 442.9728 R 13624



M 380.9760 R 13344



M 392.9760 R 14164



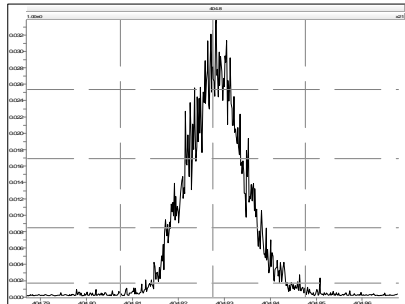
## Resolution Check Report

MassLynx 4.1

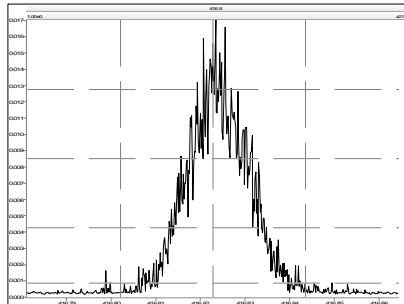
Page 5 of 6

Printed: Monday, March 24, 2014 23:46:15 Eastern Daylight Time

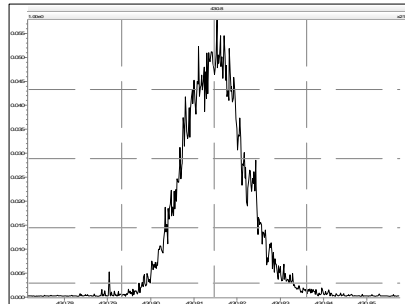
M 404.9760 R 13416



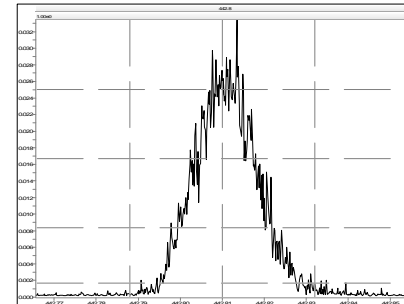
M 416.9760 R 14164



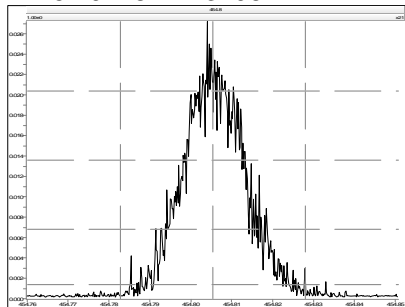
M 430.9728 R 13080



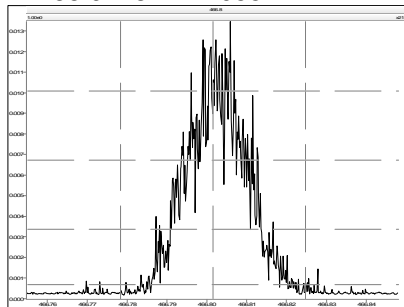
M 442.9728 R 13822



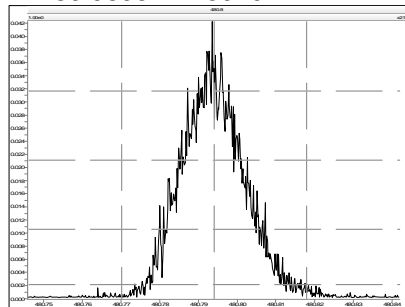
M 454.9728 R 13706



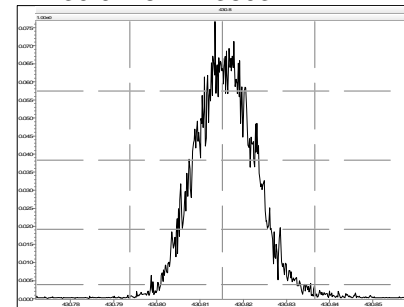
M 466.9728 R 14055



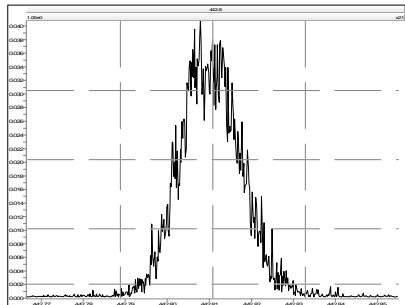
M 480.9696 R 13970



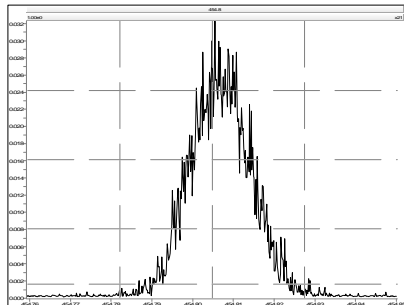
M 430.9728 R 13803



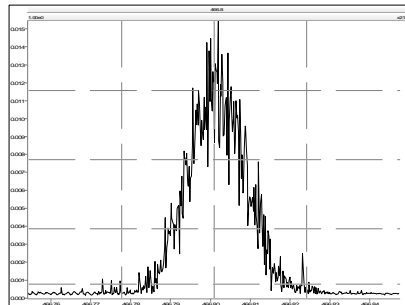
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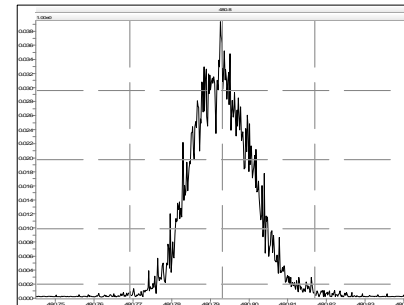
M 454.9728 R 14286



M 466.9728 R 15271



M 480.9696 R 13484



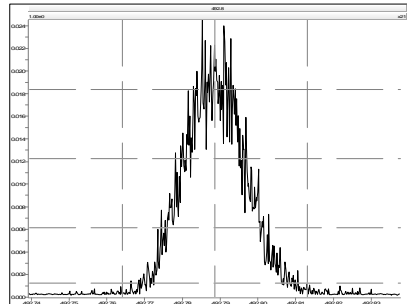
## Resolution Check Report

MassLynx 4.1

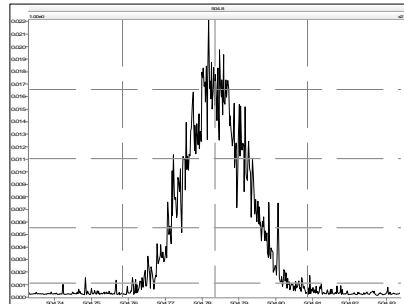
Page 6 of 6

Printed: Monday, March 24, 2014 23:46:15 Eastern Daylight Time

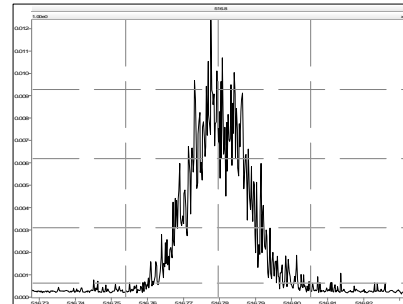
M 492.9696 R 14233



M 504.9696 R 14250



M 516.9697 R 13510



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 10 Feb 2014 14:38	
ICAL: MM4_PCB_10292013_05FEB2014										
Acquired: 05 Feb 2014										
Date Processed: 10 Feb 2014 14:36										
Name	Mean	% RSD	140205S02 0.5	140205S03 1	140205S04 5	140205S05 50	140205S06 400	140205S07 2000		
			CS0	CS1	CS2	CS3	CS4	CS5		
PCB-77 33'44'-TeCB	1.36	6.1%	1.29	1.30	1.29	1.42	1.42	1.47		
PCB-81 344'5'-TeCB	1.32	4.6%	1.29	1.23	1.28	1.38	1.36	1.36		
PCB-105 233'44'-PeCB	1.03	6.3%	0.98	0.98	0.97	1.07	1.08	1.12		
PCB-114 2344'5'-PeCB	1.13	4.4%	1.09	1.10	1.08	1.17	1.15	1.21		
PCB-118 23'44'5'-PeCB	1.13	4.7%	1.08	1.09	1.08	1.16	1.16	1.21		
PCB-123 23'44'5'-PeCB	1.11	8.5%	1.01	1.05	1.04	1.24	1.21	1.14		
PCB-126 33'44'5'-PeCB	1.33	6.0%	1.24	1.29	1.25	1.40	1.39	1.42		
PCB-156/157 ...-HxCB	1.09	5.2%	1.05	1.03	1.05	1.14	1.11	1.17		
PCB-167 23'44'55'-HxCB	1.15	7.0%	1.09	1.06	1.09	1.20	1.20	1.26		
PCB-169 33'44'55'-HxCB	1.10	6.4%	1.10	1.02	1.01	1.14	1.14	1.18		
PCB-189 233'44'55'-HpCB	1.21	5.0%	1.15	1.18	1.16	1.23	1.25	1.30		
PCB-209 DeCB	1.07	5.5%	1.13	1.01	0.99	1.06	1.08	1.13		
ES PCB-1	1.05	1.1%	1.06	1.06	1.06	1.05	1.06	1.04		
ES PCB-3	0.97	1.0%	0.96	0.96	0.97	0.96	0.98	0.98		
ES PCB-4	0.66	1.6%	0.67	0.67	0.67	0.65	0.66	0.65		
ES PCB-15	1.09	3.7%	1.06	1.05	1.07	1.06	1.14	1.13		
ES PCB-19	0.55	1.5%	0.56	0.55	0.56	0.54	0.55	0.54		
ES PCB-37	1.44	3.9%	1.43	1.38	1.43	1.40	1.50	1.52		
ES PCB-54	1.42	2.2%	1.48	1.43	1.41	1.39	1.44	1.39		
ES PCB-77	1.26	3.2%	1.25	1.22	1.26	1.21	1.30	1.31		
ES PCB-81	1.27	6.3%	1.23	1.20	1.22	1.21	1.34	1.39		
ES PCB-104	1.56	6.0%	1.64	1.58	1.66	1.56	1.47	1.42		
ES PCB-105	1.23	5.2%	1.27	1.26	1.31	1.25	1.17	1.14		
ES PCB-114	1.20	3.8%	1.23	1.21	1.27	1.19	1.17	1.15		
ES PCB-118	1.13	4.4%	1.17	1.15	1.19	1.12	1.08	1.06		
ES PCB-123	1.16	2.5%	1.17	1.16	1.22	1.14	1.14	1.15		
ES PCB-126	1.22	3.3%	1.25	1.24	1.27	1.21	1.17	1.18		
ES PCB-153	1.10	1.6%	1.10	1.09	1.13	1.10	1.11	1.08		
ES PCB-155	1.60	4.2%	1.65	1.62	1.69	1.57	1.60	1.49		
ES PCB-156/157	1.14	2.1%	1.13	1.14	1.16	1.10	1.16	1.13		
ES PCB-167	1.17	2.9%	1.16	1.18	1.22	1.14	1.18	1.13		
ES PCB-169	1.11	2.6%	1.07	1.10	1.12	1.08	1.14	1.13		
ES PCB-170	1.18	0.6%	1.19	1.18	1.19	1.18	1.18	1.17		
ES PCB-180	1.44	4.4%	1.41	1.40	1.40	1.39	1.49	1.55		
ES PCB-188	1.52	2.7%	1.52	1.53	1.58	1.51	1.52	1.45		
ES PCB-189	1.80	0.9%	1.82	1.77	1.80	1.79	1.81	1.80		
ES PCB-202	1.39	1.8%	1.36	1.40	1.42	1.38	1.40	1.36		
ES PCB-205	1.26	0.6%	1.26	1.25	1.27	1.26	1.27	1.25		
ES PCB-206	1.00	1.3%	1.01	0.99	1.00	0.99	1.01	0.98		

PCB ICAL Summary			SGS Analytical Perspectives						Printed: 10 Feb 2014 14:38
ICAL: MM4_PCB_10292013_05FEB2014									
Acquired: 05 Feb 2014			140205S02	140205S03	140205S04	140205S05	140205S06	140205S07	
			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
ES PCB-208	1.38	0.8%	1.39	1.38	1.37	1.37	1.39	1.37	
ES PCB-209	1.26	2.0%	1.29	1.27	1.27	1.26	1.27	1.21	
SS PCB-28	1.10	2.2%	1.11	1.13	1.11	1.12	1.07	1.07	
SS PCB-111	1.03	2.4%	1.05	1.04	1.01	1.06	1.00	1.01	
SS PCB-178	0.62	3.4%	0.61	0.62	0.60	0.61	0.62	0.66	
CS PCB-28	1.59	1.7%	1.58	1.55	1.58	1.56	1.61	1.63	
CS PCB-111	1.20	2.9%	1.23	1.20	1.23	1.20	1.14	1.17	
CS PCB-178	0.94	1.1%	0.93	0.94	0.94	0.93	0.94	0.96	
PCB-1 2-MoCB	1.21	4.5%	1.13	1.19	1.19	1.24	1.25	1.28	
PCB-3 4-MoCB	1.30	4.0%	1.24	1.25	1.27	1.31	1.34	1.37	
PCB-4 22'-DiCB	0.98	5.1%	0.96	0.91	0.95	1.01	1.00	1.05	
PCB-15 44'-DiCB	1.19	4.1%	1.13	1.16	1.14	1.23	1.21	1.24	
PCB-19 22'6-TrCB	1.05	4.8%	1.04	0.98	1.01	1.08	1.09	1.11	
PCB-37 344'-TrCB	1.32	5.8%	1.26	1.26	1.26	1.37	1.39	1.42	
PCB-54 22'66'-TeCB	1.02	4.9%	0.97	0.95	1.01	1.05	1.03	1.08	
PCB-104 22'466'-PeCB	1.02	6.0%	0.98	0.97	0.95	1.05	1.07	1.10	
PCB-153/168 ...-HxCB	1.29	4.3%	1.23	1.28	1.23	1.31	1.32	1.37	
PCB-155 22'44'66'-HxCB	1.11	4.5%	1.07	1.09	1.04	1.14	1.12	1.18	
PCB-170 22'33'44'5'-HpCB	1.03	7.2%	1.02	0.91	0.99	1.04	1.06	1.13	
PCB-180/193 ...-HpCB	1.08	5.8%	0.99	1.03	1.06	1.13	1.11	1.15	
PCB-188 22'34'566'-HpCB	1.10	6.8%	1.05	1.02	1.04	1.12	1.16	1.20	
PCB-202 22'33'55'66'-OcCB	0.83	3.0%	0.86	0.83	0.79	0.82	0.83	0.85	
PCB-205 233'44'55'6'-OcCB	1.11	6.7%	1.04	1.04	1.06	1.14	1.17	1.22	
PCB-208 22'33'455'66'-NoCB	1.01	5.8%	0.93	1.02	0.96	1.02	1.05	1.09	
PCB-206 22'33'44'55'6'-NoCB	1.01	5.1%	1.01	0.95	0.96	1.02	1.04	1.09	

PCB ICAL Summary - Ax2 Detail			SGS Analytical Perspectives					Printed: 10 Feb 2014 14:38	
ICAL: MM4_PCB_10292013_05FEB2014									
Acquired: 05 Feb 2014									
Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5	
PCB-1 2-MoCB	1.21	4.5%	1.13	1.19	1.19	1.24	1.25	1.28	
PCB-2 3-MoCB	1.29	5.2%	1.21	1.23	1.25	1.32	1.34	1.38	
PCB-3 4-MoCB	1.30	4.0%	1.24	1.25	1.27	1.31	1.34	1.37	
PCB-4 22'-DiCB	0.98	5.1%	0.96	0.91	0.95	1.01	1.00	1.05	
PCB-10 26-DiCB	1.53	6.1%	1.48	1.41	1.48	1.58	1.59	1.66	
PCB-9 25-DiCB	1.04	2.6%	1.06	1.00	1.03	1.07	1.02	1.05	
PCB-7 24-DiCB	1.18	3.7%	1.17	1.12	1.17	1.25	1.18	1.21	
PCB-6 23'-DiCB	1.11	2.4%	1.12	1.07	1.11	1.14	1.09	1.13	
PCB-5 23-DiCB	1.10	2.8%	1.10	1.08	1.06	1.14	1.09	1.14	
PCB-8 24'-DiCB	1.13	4.3%	1.04	1.13	1.15	1.18	1.13	1.16	
PCB-14 35-DiCB	1.28	4.9%	1.24	1.20	1.26	1.35	1.29	1.36	
PCB-11 33'-DiCB	1.10	5.8%	1.05	1.03	1.08	1.16	1.12	1.19	
PCB-13/12 34'/34-DiCB	1.11	5.9%	1.06	1.04	1.07	1.17	1.16	1.19	
PCB-15 44'-DiCB	1.19	4.1%	1.13	1.16	1.14	1.23	1.21	1.24	
PCB-19 22'6-TrCB	1.05	4.8%	1.04	0.98	1.01	1.08	1.09	1.11	
PCB-30/18 246/22'5-TrCB	1.33	9.0%	1.21	1.22	1.26	1.36	1.42	1.50	
PCB-17 22'4-TrCB	1.15	7.5%	1.04	1.16	1.07	1.16	1.21	1.28	
PCB-27 23'6-TrCB	1.56	9.2%	1.45	1.42	1.45	1.60	1.71	1.75	
PCB-24 236-TrCB	1.50	5.8%	1.43	1.43	1.41	1.51	1.56	1.63	
PCB-16 22'3-TrCB	0.88	9.5%	0.87	0.78	0.79	0.90	0.93	1.00	
PCB-32 24'6-TrCB	1.74	4.4%	1.79	1.65	1.64	1.77	1.77	1.82	
PCB-34 23'5'-TrCB	1.33	5.0%	1.21	1.32	1.33	1.38	1.34	1.40	
PCB-23 235-TrCB	1.40	3.1%	1.35	1.35	1.38	1.45	1.41	1.43	
PCB-26/29 23'5/245-TrCB	1.41	3.9%	1.33	1.37	1.39	1.46	1.45	1.46	
PCB-25 23'4-TrCB	1.41	4.9%	1.32	1.35	1.38	1.47	1.47	1.47	
PCB-31 24'5-TrCB	1.46	3.8%	1.38	1.42	1.46	1.52	1.49	1.50	
PCB-28/20 244'/233'-TrCB	1.39	3.1%	1.35	1.35	1.36	1.42	1.42	1.44	
PCB-21/33 234/23'4'-TrCB	1.42	5.0%	1.34	1.34	1.38	1.48	1.49	1.48	
PCB-22 234'-TrCB	1.29	3.6%	1.23	1.25	1.27	1.34	1.31	1.34	
PCB-36 33'5-TrCB	1.42	5.0%	1.36	1.38	1.33	1.47	1.46	1.50	
PCB-39 34'5-TrCB	1.45	5.9%	1.32	1.41	1.41	1.51	1.51	1.55	
PCB-38 345-TrCB	1.30	6.2%	1.19	1.26	1.26	1.34	1.40	1.37	
PCB-35 33'4-TrCB	1.25	6.8%	1.12	1.21	1.19	1.31	1.31	1.34	
PCB-37 344'-TrCB	1.32	5.8%	1.26	1.26	1.26	1.37	1.39	1.42	
PCB-54 22'66'-TeCB	1.02	4.9%	0.97	0.95	1.01	1.05	1.03	1.08	
PCB-50/53 22'46/22'56'-TeCB	0.85	4.1%	0.82	0.81	0.83	0.91	0.87	0.85	
PCB-45 22'36'-TeCB	0.71	10.0%	0.66	0.65	0.68	0.83	0.78	0.69	
PCB-51 22'46'-TeCB	0.88	2.5%	0.91	0.87	0.87	0.87	0.86	0.91	
PCB-46 22'36'-TeCB	0.68	3.9%	0.70	0.64	0.67	0.72	0.68	0.67	
PCB-52 22'55'-TeCB	0.80	3.4%	0.79	0.79	0.80	0.86	0.80	0.79	



PCB-73 23'56'-TeCB	1.07	4.3%	1.10	1.00	1.10	1.11	1.05	1.03
PCB-43 22'35'-TeCB	0.68	7.7%	0.62	0.72	0.62	0.72	0.69	0.74
PCB-69/49 23'46'/22'45'-TeCB	0.97	4.2%	0.93	0.92	0.96	1.02	1.00	1.00
PCB-48 22'45'-TeCB	0.80	4.2%	0.79	0.75	0.78	0.84	0.82	0.83
PCB-44/47/65 ...-TeCB	0.87	3.0%	0.85	0.85	0.85	0.91	0.89	0.88
PCB-59/62/75 ...-TeCB	1.11	4.5%	1.06	1.06	1.09	1.17	1.16	1.13
PCB-42 22'34'-TeCB	0.73	3.9%	0.73	0.69	0.71	0.77	0.74	0.73
PCB-41 22'34'-TeCB	0.66	2.7%	0.68	0.65	0.64	0.66	0.64	0.68
PCB-71/40 23'4'6'/22'33'-TeCB	0.82	4.5%	0.80	0.78	0.80	0.87	0.85	0.84
PCB-64 234'6'-TeCB	1.20	4.7%	1.28	1.12	1.15	1.23	1.20	1.19
PCB-72 23'55'-TeCB	1.39	3.4%	1.35	1.34	1.37	1.47	1.39	1.40
PCB-68 23'45'-TeCB	1.49	3.3%	1.45	1.43	1.49	1.57	1.48	1.51
PCB-57 233'5'-TeCB	1.33	3.2%	1.36	1.26	1.32	1.39	1.32	1.33
PCB-58 233'5'-TeCB	1.38	3.1%	1.41	1.31	1.36	1.43	1.40	1.39
PCB-67 23'45'-TeCB	1.47	2.9%	1.47	1.43	1.42	1.53	1.51	1.47
PCB-63 234'5'-TeCB	1.50	3.2%	1.51	1.44	1.46	1.57	1.55	1.50
PCB-61/70/74/76 ...-TeCB	1.38	4.0%	1.37	1.30	1.35	1.44	1.44	1.41
PCB-66 23'44'-TeCB	1.28	5.4%	1.28	1.15	1.27	1.35	1.31	1.31
PCB-55 233'4'-TeCB	1.33	5.0%	1.43	1.24	1.29	1.38	1.32	1.31
PCB-56 233'4'-TeCB	1.25	3.8%	1.24	1.18	1.23	1.33	1.25	1.27
PCB-60 2344'-TeCB	1.34	3.8%	1.39	1.27	1.29	1.39	1.36	1.35
PCB-80 33'55'-TeCB	1.51	3.0%	1.50	1.46	1.46	1.57	1.52	1.53
PCB-79 33'45'-TeCB	1.55	3.9%	1.55	1.48	1.48	1.55	1.64	1.57
PCB-78 33'45'-TeCB	1.25	2.9%	1.27	1.21	1.21	1.31	1.23	1.26
PCB-104 22'466'-PeCB	1.02	6.0%	0.98	0.97	0.95	1.05	1.07	1.10
PCB-96 22'366'-PeCB	0.90	6.6%	0.89	0.86	0.82	0.91	0.97	0.97
PCB-103 22'45'6'-PeCB	0.92	3.1%	0.94	0.89	0.88	0.95	0.91	0.93
PCB-94 22'356'-PeCB	0.79	4.2%	0.83	0.77	0.74	0.83	0.80	0.80
PCB-95 22'35'6'-PeCB	0.85	3.9%	0.86	0.83	0.79	0.89	0.85	0.86
PCB-100/93 22'44'6'/22'356'-PeCB	0.88	3.6%	0.91	0.84	0.84	0.91	0.89	0.89
PCB-102 22'456'-PeCB	0.95	9.1%	0.84	0.93	1.00	1.05	1.02	0.86
PCB-98 22'34'6'-PeCB	0.76	13.3%	0.89	0.69	0.62	0.77	0.75	0.86
PCB-88 22'346'-PeCB	0.80	7.8%	0.79	0.75	0.72	0.88	0.86	0.79
PCB-91 22'34'6'-PeCB	0.90	7.7%	0.98	0.81	0.84	0.90	0.92	0.98
PCB-84 22'33'6'-PeCB	0.71	5.9%	0.77	0.65	0.68	0.74	0.71	0.70
PCB-89 22'346'-PeCB	0.76	3.3%	0.78	0.74	0.72	0.79	0.75	0.75
PCB-121 23'45'6'-PeCB	1.15	4.8%	1.20	1.08	1.08	1.19	1.16	1.17
PCB-92 22'355'-PeCB	0.80	6.2%	0.89	0.76	0.75	0.83	0.79	0.80
PCB-113/90/101 ...-PeCB	0.94	4.8%	0.93	0.88	0.90	0.98	0.98	0.98
PCB-83 22'33'5'-PeCB	0.68	5.0%	0.72	0.67	0.64	0.66	0.72	0.70
PCB-99 22'44'5'-PeCB	0.88	6.5%	0.87	0.82	0.84	0.98	0.86	0.90
PCB-112 233'56'-PeCB	1.08	4.1%	1.11	1.03	1.04	1.11	1.07	1.14
PCB-109/119/86/97/125...-PeCB	0.96	4.4%	0.95	0.91	0.91	0.99	1.00	0.99
PCB-117 234'56'-PeCB	1.00	10.4%	0.86	1.00	0.92	1.13	1.10	1.01
PCB-116/85 23456/22'344'-PeCB	0.95	5.6%	0.96	0.87	0.93	0.96	0.93	1.03
PCB-110 233'4'6'-PeCB	1.06	9.7%	1.18	1.02	0.90	1.14	1.09	1.00
PCB-115 2344'6'-PeCB	1.09	10.0%	0.90	1.05	1.13	1.12	1.10	1.24

PCB-82 22'33'4-PeCB	0.67	4.9%	0.65	0.63	0.64	0.71	0.68	0.70
PCB-111 233'55'-PeCB	1.15	3.4%	1.13	1.12	1.10	1.20	1.16	1.19
PCB-120 23'455'-PeCB	1.13	5.5%	1.02	1.12	1.10	1.19	1.15	1.18
PCB-108/124 ...-PeCB	1.03	6.3%	0.95	0.96	1.00	1.08	1.06	1.11
PCB-107 233'4'5-PeCB	1.11	5.8%	1.09	1.02	1.08	1.16	1.11	1.20
PCB-106 233'45-PeCB	1.02	4.1%	1.03	0.99	0.97	1.05	1.02	1.09
PCB-122 233'4'5'-PeCB	0.92	5.4%	0.87	0.88	0.89	0.98	0.95	0.98
PCB-127 33'455'-PeCB	0.96	10.3%	0.84	0.87	0.92	0.98	1.01	1.11
PCB-155 22'44'66'-HxCB	1.11	4.5%	1.07	1.09	1.04	1.14	1.12	1.18
PCB-152 22'3566'-HxCB	1.03	8.4%	0.96	0.96	0.94	1.05	1.10	1.15
PCB-150 22'34'66'-HxCB	1.00	9.1%	0.88	0.95	0.94	1.07	1.06	1.12
PCB-136 22'33'66'-HxCB	0.96	7.9%	0.92	0.95	0.85	0.98	0.98	1.08
PCB-145 22'3466'-HxCB	0.97	6.1%	0.91	0.93	0.92	0.99	0.99	1.06
PCB-148 22'34'56'-HxCB	1.07	4.9%	1.04	1.07	1.00	1.08	1.11	1.15
PCB-151/135 ...-HxCB	1.02	4.4%	0.98	1.04	0.95	1.03	1.03	1.07
PCB-154 22'44'56'-HxCB	1.16	6.2%	1.05	1.17	1.11	1.18	1.22	1.25
PCB-144 22'345'6-HxCB	1.02	4.7%	0.95	1.04	0.97	1.04	1.04	1.07
PCB-147/149 ...-HxCB	1.03	5.5%	0.96	0.99	1.01	1.04	1.08	1.12
PCB-134 22'33'56'-HxCB	0.82	8.1%	0.74	0.88	0.74	0.87	0.87	0.85
PCB-143 22'3456'-HxCB	0.98	5.1%	0.95	0.93	1.00	0.96	0.96	1.07
PCB-139/140 ...-HxCB	1.07	5.7%	1.03	1.02	1.02	1.07	1.11	1.17
PCB-131 22'33'46-HxCB	0.92	4.9%	0.89	0.91	0.87	0.92	0.94	1.00
PCB-142 22'3456-HxCB	0.91	6.5%	0.83	0.89	0.85	0.92	0.95	0.99
PCB-132 22'33'46'-HxCB	0.93	3.4%	0.90	0.94	0.89	0.94	0.94	0.97
PCB-133 22'33'55'-HxCB	0.96	5.5%	0.92	0.92	0.90	0.99	1.00	1.03
PCB-165 233'55'6-HxCB	1.18	3.5%	1.15	1.15	1.13	1.21	1.20	1.23
PCB-146 22'34'55'-HxCB	1.10	3.8%	1.10	1.13	1.01	1.11	1.12	1.12
PCB-161 233'45'6-HxCB	1.35	5.3%	1.26	1.31	1.32	1.37	1.40	1.46
PCB-153/168 ...-HxCB	1.29	4.3%	1.23	1.28	1.23	1.31	1.32	1.37
PCB-141 22'3455'-HxCB	0.96	3.2%	0.92	0.96	0.94	0.98	0.97	1.01
PCB-130 22'33'45'-HxCB	0.85	3.4%	0.82	0.88	0.82	0.87	0.85	0.88
PCB-137 22'344'5-HxCB	1.05	8.0%	0.94	1.06	0.96	1.09	1.11	1.15
PCB-164 233'4'5'6-HxCB	1.26	5.8%	1.19	1.19	1.25	1.28	1.30	1.38
PCB-163/138/129 ...-HxCB	1.06	5.2%	1.01	1.05	0.99	1.06	1.09	1.14
PCB-160 233'456-HxCB	1.24	5.9%	1.20	1.16	1.23	1.25	1.25	1.37
PCB-158 233'44'6-HxCB	1.34	6.9%	1.27	1.24	1.29	1.39	1.39	1.48
PCB-128/166 ...-HxCB	0.93	8.8%	0.87	0.85	0.88	0.96	0.99	1.05
PCB-159 233'455'-HxCB	1.09	7.7%	1.06	1.01	1.00	1.12	1.14	1.21
PCB-162 233'4'55'-HxCB	1.08	5.4%	1.05	1.04	1.02	1.12	1.10	1.17
PCB-188 22'34'566'-HpCB	1.10	6.8%	1.05	1.02	1.04	1.12	1.16	1.20
PCB-179 22'33'566'-HpCB	1.01	3.2%	1.02	1.03	0.95	1.01	1.02	1.05
PCB-184 22'344'66'-HpCB	1.02	5.3%	1.03	0.98	0.94	1.00	1.06	1.10
PCB-176 22'33'466'-HpCB	1.08	4.6%	1.09	1.03	1.02	1.10	1.11	1.15
PCB-186 22'34566'-HpCB	1.02	5.9%	0.96	1.05	0.94	1.02	1.06	1.10
PCB-178 22'33'55'6-HpCB	0.75	5.9%	0.72	0.76	0.69	0.74	0.77	0.82
PCB-175 22'33'45'6-HpCB	0.99	1.9%	1.02	0.97	0.97	1.00	0.98	1.00
PCB-187 22'34'55'6-HpCB	1.05	3.6%	0.98	1.03	1.03	1.08	1.07	1.08

PCB-182 22'344'56'-HpCB	1.08	2.7%	1.12	1.05	1.05	1.10	1.07	1.08
PCB-183 22'344'5'6'-HpCB	1.07	2.5%	1.11	1.04	1.09	1.09	1.06	1.05
PCB-185 22'3455'6'-HpCB	0.97	9.4%	0.94	0.88	0.86	1.04	1.02	1.08
PCB-174 22'33'456'-HpCB	0.89	6.5%	0.78	0.91	0.87	0.90	0.91	0.95
PCB-177 22'33'45'6'-HpCB	0.87	3.1%	0.88	0.85	0.83	0.88	0.88	0.91
PCB-181 22'344'56'-HpCB	0.98	8.0%	0.88	0.92	0.97	1.03	1.04	1.08
PCB-171/173 ...-HpCB	0.87	4.6%	0.85	0.82	0.85	0.89	0.89	0.93
PCB-172 22'33'455'-HpCB	0.88	3.0%	0.87	0.86	0.85	0.92	0.88	0.90
PCB-192 233'455'6'-HpCB	1.16	3.1%	1.16	1.11	1.13	1.20	1.16	1.19
PCB-180/193 ...-HpCB	1.08	5.8%	0.99	1.03	1.06	1.13	1.11	1.15
PCB-191 233'44'5'6'-HpCB	1.17	5.5%	1.09	1.11	1.16	1.24	1.20	1.24
PCB-170 22'33'44'5'-HpCB	1.03	7.2%	1.02	0.91	0.99	1.04	1.06	1.13
PCB-190 233'44'56'-HpCB	1.44	8.8%	1.42	1.31	1.33	1.43	1.52	1.65
PCB-202 22'33'55'66'-OcCB	0.83	3.0%	0.86	0.83	0.79	0.82	0.83	0.85
PCB-201 22'33'45'66'-OcCB	0.88	4.5%	0.83	0.86	0.86	0.91	0.92	0.93
PCB-204 22'344'566'-OcCB	0.86	4.3%	0.86	0.82	0.81	0.88	0.87	0.91
PCB-197 22'33'44'66'-OcCB	0.93	6.5%	0.96	0.86	0.89	0.92	0.91	1.03
PCB-200 22'33'4566'-OcCB	0.86	5.8%	0.85	0.80	0.81	0.92	0.91	0.88
PCB-198/199 ...-OcCB	0.61	9.9%	0.58	0.53	0.57	0.63	0.65	0.69
PCB-196 22'33'44'56'-OcCB	0.62	4.8%	0.60	0.60	0.60	0.65	0.64	0.66
PCB-203 22'344'55'6'-OcCB	0.65	6.5%	0.63	0.61	0.60	0.68	0.68	0.71
PCB-195 22'33'44'56'-OcCB	0.81	5.7%	0.81	0.77	0.76	0.81	0.83	0.88
PCB-194 22'33'44'55'-OcCB	0.89	4.4%	0.87	0.87	0.83	0.89	0.91	0.95
PCB-205 233'44'55'6'-OcCB	1.11	6.7%	1.04	1.04	1.06	1.14	1.17	1.22
PCB-208 22'33'455'66'-NoCB	1.01	5.8%	0.93	1.02	0.96	1.02	1.05	1.09
PCB-207 22'33'44'566'-NoCB	1.06	5.6%	1.01	1.09	0.98	1.06	1.09	1.14
PCB-206 22'33'44'55'6'-NoCB	1.01	5.1%	1.01	0.95	0.96	1.02	1.04	1.09







## SGS Analytical Perspectives — Run Log

Project: MM4\_PCB\_10292013\_05FEB2014

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90\_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	140205S01	12	SBS_140205_PCB_SA	1.00	SIL9-41-1	CTW, CH	532-254	05-Feb-2014	09:26:32
2	140205S02	60	CS0_140205_PCB_SA	1.00	SIL 13-79-6	CTW, CH	651-526	05-Feb-2014	10:19:48
3	140205S03	61	CS1_140205_PCB_SA	1.00	SIL 13-79-5	CTW, CH	906-963	05-Feb-2014	11:24:43
4	140205S04	62	CS2_140205_PCB_SA	1.00	SIL 13-79-4	CTW, CH	785-515	05-Feb-2014	12:18:00
5	140205S05	63	CS3_140205_PCB_SA	1.00	SIL 13-79-3	CTW, CH	401-885	05-Feb-2014	13:14:00
6	140205S06	64	CS4_140205_PCB_SA	1.00	SIL 13-79-2	CTW, CH	432-744	05-Feb-2014	14:10:02
7	140205S07	65	CS5_140205_PCB_SA	1.00	SIL 13-79-1	CTW, CH	646-895	05-Feb-2014	15:06:03

PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:46		
Lab ID:	CS0_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 10:19						
Datafile:	140205S02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.71	3.24E+05	0.85 Y	1.36	1.29	-5.5%	
PCB-81 344'5'-TeCB	29.24	3.19E+05	0.86 Y	1.32	1.29	-2.2%	
PCB-105 233'44'-PeCB	32.64	2.02E+05	0.60 Y	1.03	0.98	-5.3%	
PCB-114 2344'5'-PeCB	32.10	2.20E+05	0.66 Y	1.13	1.09	-3.3%	
PCB-118 23'44'5'-PeCB	31.65	2.06E+05	0.61 Y	1.13	1.08	-4.4%	
PCB-123 23'44'5'-PeCB	31.38	1.93E+05	0.62 Y	1.11	1.01	-9.7%	
PCB-126 33'44'5'-PeCB	35.24	2.52E+05	0.69 Y	1.33	1.24	-6.9%	
PCB-156/157 ...-HxCB	37.75	3.72E+05	1.22 Y	1.09	1.05	-3.9%	
PCB-167 23'44'55'-HxCB	36.79	1.98E+05	1.34 Y	1.15	1.09	-5.3%	
PCB-169 33'44'55'-HxCB	40.47	1.85E+05	1.23 Y	1.10	1.10	0.3%	
PCB-189 233'44'55'-HpCB	42.58	2.27E+05	0.98 Y	1.21	1.15	-5.4%	
PCB-209 DeCB	47.56	1.58E+05	1.14 Y	1.07	1.13	6.1%	
ES PCB-1	10.18	8.20E+07	3.18 Y	1.05	1.06	0.3%	
ES PCB-3	12.15	7.46E+07	3.22 Y	0.97	0.96	-0.7%	
ES PCB-4	12.36	5.18E+07	1.55 Y	0.66	0.67	1.3%	
ES PCB-15	17.53	8.22E+07	1.65 Y	1.09	1.06	-2.4%	
ES PCB-19	15.10	4.33E+07	1.04 Y	0.55	0.56	1.8%	
ES PCB-37	23.52	5.73E+07	1.09 Y	1.44	1.43	-1.2%	
ES PCB-54	17.76	5.94E+07	0.78 Y	1.42	1.48	3.7%	
ES PCB-77	29.69	5.03E+07	0.83 Y	1.26	1.25	-0.7%	
ES PCB-81	29.22	4.95E+07	0.81 Y	1.27	1.23	-2.8%	
ES PCB-104	22.46	5.35E+07	1.55 Y	1.56	1.64	5.3%	
ES PCB-105	32.62	4.13E+07	1.56 Y	1.23	1.27	2.7%	
ES PCB-114	32.08	4.03E+07	1.60 Y	1.20	1.23	2.7%	
ES PCB-118	31.63	3.82E+07	1.59 Y	1.13	1.17	3.4%	
ES PCB-123	31.36	3.83E+07	1.58 Y	1.16	1.17	0.9%	
ES PCB-126	35.22	4.08E+07	1.68 Y	1.22	1.25	2.3%	
ES PCB-153	33.19	3.45E+07	1.28 Y	1.10	1.10	-0.5%	
ES PCB-155	27.26	5.18E+07	1.25 Y	1.60	1.65	2.6%	
ES PCB-156/157	37.73	7.09E+07	1.27 Y	1.14	1.13	-0.9%	
ES PCB-167	36.76	3.64E+07	1.26 Y	1.17	1.16	-1.0%	
ES PCB-169	40.45	3.36E+07	1.26 Y	1.11	1.07	-3.5%	
ES PCB-170	39.95	2.59E+07	1.09 Y	1.18	1.19	0.8%	
ES PCB-180	38.89	3.06E+07	1.10 Y	1.44	1.41	-1.7%	
ES PCB-188	32.06	4.79E+07	1.07 Y	1.52	1.52	0.1%	
ES PCB-189	42.56	3.95E+07	1.06 Y	1.80	1.82	1.2%	
ES PCB-202	36.56	4.29E+07	0.89 Y	1.39	1.36	-1.6%	
ES PCB-205	44.72	2.73E+07	0.90 Y	1.26	1.26	0.1%	
ES PCB-206	46.18	2.19E+07	0.78 Y	1.00	1.01	1.5%	
ES PCB-208	42.16	3.02E+07	0.77 Y	1.38	1.39	1.2%	
ES PCB-209	47.53	2.80E+07	1.19 Y	1.26	1.29	2.4%	



PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:46		
Lab ID:	CS0_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 10:19						
Datafile:	140205S02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	20.11	6.34E+07	1.10 Y	1.10	1.11	0.5%	
SS PCB-111	29.72	4.03E+07	1.62 Y	1.03	1.05	2.3%	
SS PCB-178	34.62	2.94E+07	1.09 Y	0.62	0.61	-1.0%	
CS PCB-28	20.11	6.34E+07	1.10 Y	1.59	1.58	-0.6%	
CS PCB-111	29.72	4.03E+07	1.62 Y	1.20	1.23	3.2%	
CS PCB-178	34.62	2.94E+07	1.09 Y	0.94	0.93	-0.8%	
JS PCB-9	14.12	7.75E+07	1.63 Y	-	-	-	
JS PCB-52	21.66	4.02E+07	0.77 Y	-	-	-	
JS PCB-101	27.46	3.26E+07	1.58 Y	-	-	-	
JS PCB-138	34.24	3.15E+07	1.27 Y	-	-	-	
JS PCB-194	44.32	2.17E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	10.19	4.65E+05	3.18 Y	1.21	1.13	-6.6%	
PCB-3 4-MoCB	12.16	4.63E+05	3.16 Y	1.30	1.24	-4.3%	
PCB-4 22'-DiCB	12.38	2.49E+05	0.00 S	0.98	0.96	-2.1%	
PCB-15 44'-DiCB	17.54	4.63E+05	0.00 S	1.19	1.13	-5.1%	
PCB-19 22'6'-TrCB	15.12	2.26E+05	1.07 Y	1.05	1.04	-0.7%	
PCB-37 344'-TrCB	23.54	3.61E+05	1.02 Y	1.32	1.26	-4.9%	
PCB-54 22'66'-TeCB	17.78	2.89E+05	0.77 Y	1.02	0.97	-4.3%	
PCB-104 22'466'-PeCB	22.48	2.63E+05	0.63 Y	1.02	0.98	-3.9%	
PCB-155 22'44'66'-HxCB	27.28	2.76E+05	1.37 Y	1.11	1.07	-3.6%	
PCB-188 22'34'566'-HpCB	32.08	2.51E+05	1.22 N	1.10	1.05	-4.7%	
PCB-202 22'33'55'66'-OcCB	36.58	1.84E+05	0.88 Y	0.83	0.86	3.6%	
PCB-205 233'44'55'6'-OcCB	44.74	1.43E+05	0.92 Y	1.11	1.04	-6.0%	
PCB-208 22'33'455'66'-NoCB	42.18	1.41E+05	0.75 Y	1.01	0.93	-7.8%	
PCB-206 22'33'44'55'6'-NoCB	46.20	1.11E+05	0.77 Y	1.01	1.01	-0.2%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:46			
Lab ID:	CS0_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 10:19						
Datafile:	140205S02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	10.19	4.65E+05	3.18 Y	1.21	1.13	-6.6%	
PCB-2 3-MoCB	12.00	4.50E+05	3.22 Y	1.29	1.21	-6.2%	
PCB-3 4-MoCB	12.16	4.63E+05	3.16 Y	1.30	1.24	-4.3%	
PCB-4 22'-DiCB	12.38	2.49E+05	0.00 S	0.98	0.96	-2.1%	
PCB-10 26'-DiCB	12.53	3.83E+05	0.00 S	1.53	1.48	-3.4%	
PCB-9 25'-DiCB	14.13	4.33E+05	0.00 S	1.04	1.06	1.8%	
PCB-7 24'-DiCB	14.28	4.80E+05	0.00 S	1.18	1.17	-1.1%	
PCB-6 23'-DiCB	14.48	4.59E+05	0.00 S	1.11	1.12	0.9%	
PCB-5 23'-DiCB	14.75	4.52E+05	0.00 S	1.10	1.10	-0.2%	
PCB-8 24'-DiCB	14.86	4.27E+05	0.00 S	1.13	1.04	-8.0%	
PCB-14 35'-DiCB	16.28	5.09E+05	0.00 S	1.28	1.24	-3.5%	
PCB-11 33'-DiCB	17.01	4.31E+05	0.00 S	1.10	1.05	-4.9%	
PCB-13/12 34'/34'-DiCB	17.28	8.71E+05	0.00 S	1.11	1.06	-4.8%	
PCB-15 44'-DiCB	17.54	4.63E+05	0.00 S	1.19	1.13	-5.1%	
PCB-19 22'6'-TrCB	15.12	2.26E+05	1.07 Y	1.05	1.04	-0.7%	
PCB-30/18 246'/22'5'-TrCB	16.72	5.25E+05	0.97 Y	1.33	1.21	-8.7%	
PCB-17 22'4'-TrCB	17.09	2.25E+05	1.01 Y	1.15	1.04	-9.7%	
PCB-27 23'6'-TrCB	17.28	3.15E+05	0.96 Y	1.56	1.45	-7.0%	
PCB-24 236'-TrCB	17.39	3.09E+05	0.89 Y	1.50	1.43	-4.5%	
PCB-16 22'3'-TrCB	17.49	1.88E+05	1.14 Y	0.88	0.87	-1.2%	
PCB-32 24'6'-TrCB	17.93	3.87E+05	0.93 Y	1.74	1.79	3.0%	
PCB-34 23'5'-TrCB	19.02	3.47E+05	1.04 Y	1.33	1.21	-9.2%	
PCB-23 235'-TrCB	19.15	3.86E+05	1.07 Y	1.40	1.35	-3.4%	
PCB-26/29 23'5'/245'-TrCB	19.43	7.61E+05	1.01 Y	1.41	1.33	-5.9%	
PCB-25 23'4'-TrCB	19.62	3.77E+05	1.13 Y	1.41	1.32	-6.6%	
PCB-31 24'5'-TrCB	19.88	3.95E+05	1.20 N	1.46	1.38	-5.7%	
PCB-28/20 244'/233'-TrCB	20.15	7.72E+05	1.06 Y	1.39	1.35	-3.2%	
PCB-21/33 234'/23'4'-TrCB	20.31	7.69E+05	1.06 Y	1.42	1.34	-5.4%	
PCB-22 234'-TrCB	20.67	3.53E+05	1.00 Y	1.29	1.23	-4.5%	
PCB-36 33'5'-TrCB	22.00	3.89E+05	1.14 Y	1.42	1.36	-4.2%	
PCB-39 34'5'-TrCB	22.31	3.80E+05	1.02 Y	1.45	1.32	-8.9%	
PCB-38 345'-TrCB	22.80	3.40E+05	1.10 Y	1.30	1.19	-8.9%	
PCB-35 33'4'-TrCB	23.20	3.21E+05	1.20 N	1.25	1.12	-10.1%	
PCB-37 344'-TrCB	23.54	3.61E+05	1.02 Y	1.32	1.26	-4.9%	
PCB-54 22'66'-TeCB	17.78	2.89E+05	0.77 Y	1.02	0.97	-4.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.65	4.08E+05	0.80 Y	0.85	0.82	-3.0%	
PCB-45 22'36'-TeCB	20.20	1.64E+05	0.81 Y	0.71	0.66	-7.6%	
PCB-51 22'46'-TeCB	20.27	2.25E+05	0.85 Y	0.88	0.91	3.0%	
PCB-46 22'36'-TeCB	20.48	1.73E+05	0.77 Y	0.68	0.70	3.1%	
PCB-52 22'55'-TeCB	21.68	1.95E+05	0.77 Y	0.80	0.79	-2.1%	
PCB-73 23'5'6'-TeCB	21.81	2.73E+05	0.83 Y	1.07	1.10	3.3%	
PCB-43 22'35'-TeCB	21.89	1.53E+05	0.82 Y	0.68	0.62	-9.7%	
PCB-69/49 23'46'/22'45'-TeCB	22.08	4.62E+05	0.76 Y	0.97	0.93	-4.1%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:46			
Lab ID:	CS0_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 10:19						
Datafile:	140205S02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.34	1.97E+05	0.87 Y	0.80	0.79	-1.2%	
PCB-44/47/65 ...-TeCB	22.55	6.29E+05	0.78 Y	0.87	0.85	-2.9%	
PCB-59/62/75 ...-TeCB	22.81	7.90E+05	0.78 Y	1.11	1.06	-4.4%	
PCB-42 22'34'-TeCB	22.98	1.80E+05	0.81 Y	0.73	0.73	-0.4%	
PCB-41 22'34'-TeCB	23.29	1.68E+05	0.82 Y	0.66	0.68	3.3%	
PCB-71/40 23'4'6/22'33'-TeCB	23.39	3.99E+05	0.87 Y	0.82	0.80	-2.4%	
PCB-64 23'4'6'-TeCB	23.58	3.16E+05	0.83 Y	1.20	1.28	6.7%	
PCB-72 23'55'-TeCB	24.30	3.35E+05	0.83 Y	1.39	1.35	-2.3%	
PCB-68 23'45'-TeCB	24.54	3.60E+05	0.81 Y	1.49	1.45	-2.2%	
PCB-57 23'35'-TeCB	24.89	3.37E+05	0.82 Y	1.33	1.36	2.2%	
PCB-58 23'35'-TeCB	25.09	3.48E+05	0.73 Y	1.38	1.41	1.8%	
PCB-67 23'45'-TeCB	25.24	3.63E+05	0.78 Y	1.47	1.47	-0.4%	
PCB-63 23'45'-TeCB	25.46	3.74E+05	0.76 Y	1.50	1.51	0.3%	
PCB-61/70/74/76 ...-TeCB	25.74	1.36E+06	0.78 Y	1.38	1.37	-1.1%	
PCB-66 23'44'-TeCB	26.02	3.16E+05	0.79 Y	1.28	1.28	-0.2%	
PCB-55 23'34'-TeCB	26.16	3.53E+05	0.76 Y	1.33	1.43	7.5%	
PCB-56 23'34'-TeCB	26.58	3.08E+05	0.86 Y	1.25	1.24	-0.7%	
PCB-60 23'44'-TeCB	26.76	3.45E+05	0.84 Y	1.34	1.39	3.8%	
PCB-80 33'55'-TeCB	27.11	3.71E+05	0.83 Y	1.51	1.50	-0.7%	
PCB-79 33'45'-TeCB	28.40	3.85E+05	0.83 Y	1.55	1.55	0.5%	
PCB-78 33'45'-TeCB	28.87	3.13E+05	0.75 Y	1.25	1.27	1.4%	
PCB-104 22'466'-PeCB	22.48	2.63E+05	0.63 Y	1.02	0.98	-3.9%	
PCB-96 22'366'-PeCB	22.80	2.38E+05	0.56 Y	0.90	0.89	-1.6%	
PCB-103 22'45'6'-PeCB	24.44	1.80E+05	0.56 Y	0.92	0.94	2.6%	
PCB-94 22'356'-PeCB	24.63	1.58E+05	0.63 Y	0.79	0.83	4.1%	
PCB-95 22'35'6'-PeCB	25.00	1.65E+05	0.70 Y	0.85	0.86	1.8%	
PCB-100/93 22'44'6/22'356'-PeCB	25.19	3.49E+05	0.61 Y	0.88	0.91	3.3%	
PCB-102 22'456'-PeCB	25.30	1.61E+05	0.59 Y	0.95	0.84	-11.7%	
PCB-98 22'34'6'-PeCB	25.37	1.70E+05	0.65 Y	0.76	0.89	16.1%	
PCB-88 22'346'-PeCB	25.65	1.52E+05	0.63 Y	0.80	0.79	-0.7%	
PCB-91 22'34'6'-PeCB	25.73	1.87E+05	0.69 Y	0.90	0.98	8.3%	
PCB-84 22'33'6'-PeCB	25.92	1.47E+05	0.58 Y	0.71	0.77	8.4%	
PCB-89 22'346'-PeCB	26.32	1.50E+05	0.57 Y	0.76	0.78	3.4%	
PCB-121 23'45'6'-PeCB	26.67	2.31E+05	0.67 Y	1.15	1.20	4.8%	
PCB-92 22'355'-PeCB	26.99	1.70E+05	0.69 Y	0.80	0.89	10.6%	
PCB-113/90/101 ...-PeCB	27.46	5.34E+05	0.57 Y	0.94	0.93	-1.1%	
PCB-83 22'33'5'-PeCB	27.87	1.37E+05	0.66 Y	0.68	0.72	4.6%	
PCB-99 22'44'5'-PeCB	27.97	1.68E+05	0.60 Y	0.88	0.87	-0.6%	
PCB-112 23'3'56'-PeCB	28.07	2.13E+05	0.67 Y	1.08	1.11	2.7%	
PCB-109/119/86/97/125...-PeCB	28.40	1.09E+06	0.64 Y	0.96	0.95	-1.0%	
PCB-117 23'4'56'-PeCB	28.92	1.65E+05	0.72 N	1.00	0.86	-14.5%	
PCB-116/85 23'456/22'344'-PeCB	29.00	3.68E+05	0.63 Y	0.95	0.96	1.4%	
PCB-110 23'3'4'6'-PeCB	29.14	2.27E+05	0.62 Y	1.06	1.18	12.1%	

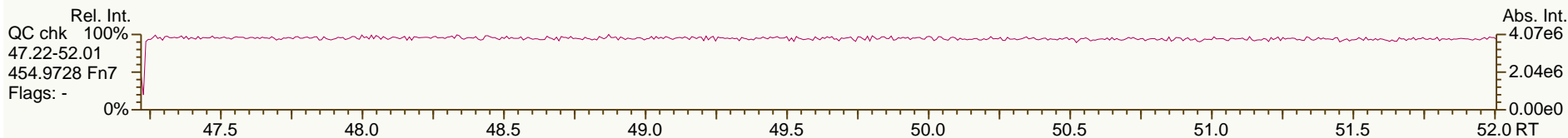
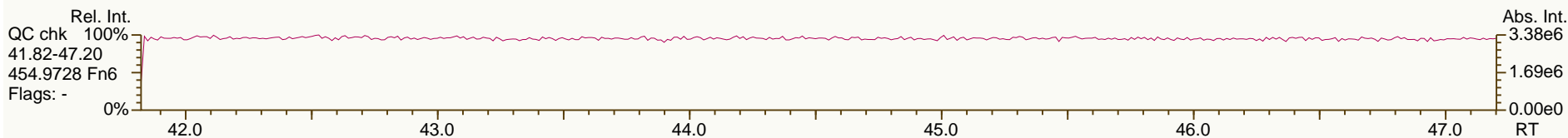
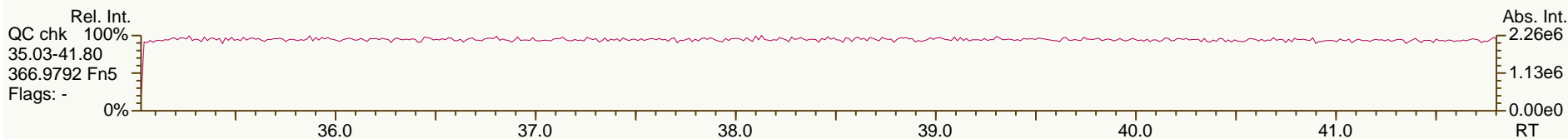
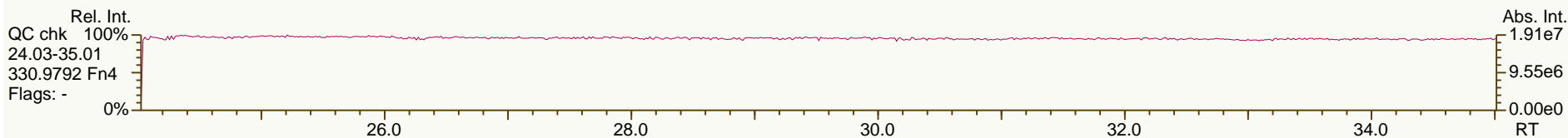
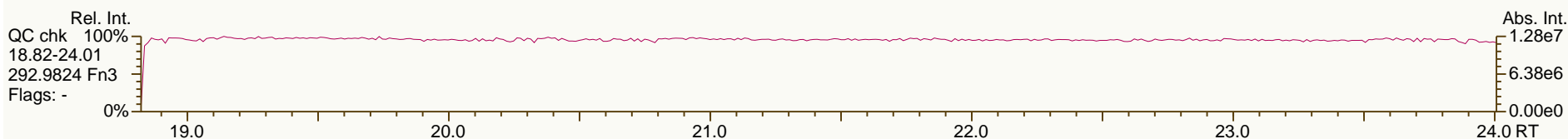
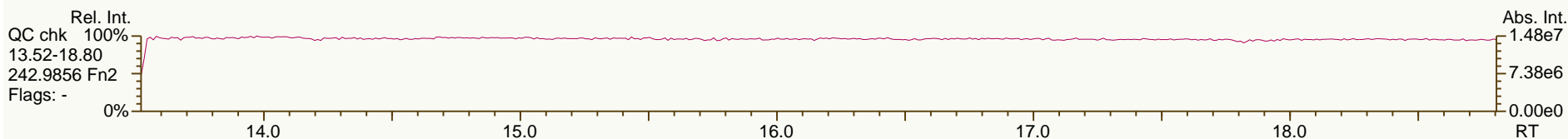
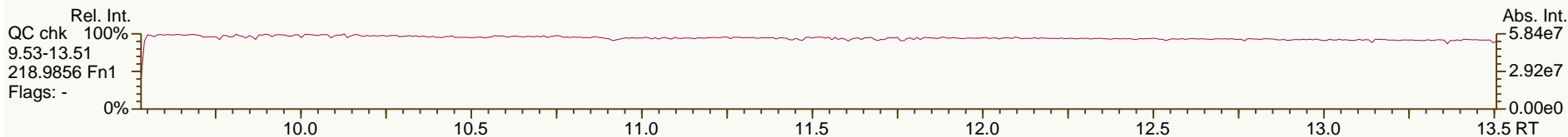
PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:46			
Lab ID:	CS0_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 10:19						
Datafile:	140205S02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	29.21	1.73E+05	0.59 Y	1.09	0.90	-17.2%	
PCB-82 22'33'4-PeCB	29.40	1.24E+05	0.73 N	0.67	0.65	-2.6%	
PCB-111 233'55'-PeCB	29.74	2.16E+05	0.65 Y	1.15	1.13	-1.9%	
PCB-120 23'455'-PeCB	30.12	1.96E+05	0.68 Y	1.13	1.02	-9.3%	
PCB-108/124 ...-PeCB	31.08	3.64E+05	0.62 Y	1.03	0.95	-7.6%	
PCB-107 233'4'5-PeCB	31.28	2.08E+05	0.62 Y	1.11	1.09	-2.1%	
PCB-106 233'45-PeCB	31.48	1.96E+05	0.65 Y	1.02	1.03	0.2%	
PCB-122 233'4'5'-PeCB	31.94	1.76E+05	0.69 Y	0.92	0.87	-5.6%	
PCB-127 33'455'-PeCB	33.88	1.73E+05	0.67 Y	0.96	0.84	-12.1%	
PCB-155 22'44'66'-HxCB	27.28	2.76E+05	1.37 Y	1.11	1.07	-3.6%	
PCB-152 22'3566'-HxCB	27.45	2.49E+05	1.17 Y	1.03	0.96	-6.4%	
PCB-150 22'34'66'-HxCB	27.59	2.28E+05	1.30 Y	1.00	0.88	-12.2%	
PCB-136 22'33'66'-HxCB	27.89	2.39E+05	1.32 Y	0.96	0.92	-4.0%	
PCB-145 22'3466'-HxCB	28.14	2.36E+05	1.35 Y	0.97	0.91	-5.8%	
PCB-148 22'34'56'-HxCB	29.41	1.79E+05	1.12 Y	1.07	1.04	-3.3%	
PCB-151/135 ...-HxCB	29.93	3.40E+05	1.24 Y	1.02	0.98	-3.3%	
PCB-154 22'44'56'-HxCB	30.12	1.82E+05	1.36 Y	1.16	1.05	-9.6%	
PCB-144 22'345'6-HxCB	30.39	1.64E+05	1.43 Y	1.02	0.95	-6.4%	
PCB-147/149 ...-HxCB	30.69	3.32E+05	1.31 Y	1.03	0.96	-7.0%	
PCB-134 22'33'56-HxCB	30.85	1.28E+05	1.39 Y	0.82	0.74	-10.1%	
PCB-143 22'3456'-HxCB	30.93	1.65E+05	1.36 Y	0.98	0.95	-2.8%	
PCB-139/140 ...-HxCB	31.18	3.55E+05	1.23 Y	1.07	1.03	-3.7%	
PCB-131 22'33'46-HxCB	31.36	1.53E+05	1.20 Y	0.92	0.89	-3.8%	
PCB-142 22'3456-HxCB	31.48	1.43E+05	1.19 Y	0.91	0.83	-8.2%	
PCB-132 22'33'46'-HxCB	31.74	1.55E+05	1.17 Y	0.93	0.90	-3.3%	
PCB-133 22'33'55'-HxCB	32.17	1.59E+05	1.24 Y	0.96	0.92	-4.0%	
PCB-165 233'55'6-HxCB	32.49	1.98E+05	1.42 Y	1.18	1.15	-2.5%	
PCB-146 22'34'55'-HxCB	32.70	1.89E+05	1.22 Y	1.10	1.10	-0.1%	
PCB-161 233'45'6-HxCB	32.82	2.17E+05	1.39 Y	1.35	1.26	-7.1%	
PCB-153/168 ...-HxCB	33.24	4.24E+05	1.29 Y	1.29	1.23	-4.6%	
PCB-141 22'3455'-HxCB	33.38	1.59E+05	1.37 Y	0.96	0.92	-4.0%	
PCB-130 22'33'45'-HxCB	33.72	1.42E+05	1.36 Y	0.85	0.82	-3.7%	
PCB-137 22'344'5-HxCB	33.91	1.63E+05	1.28 Y	1.05	0.94	-10.3%	
PCB-164 233'4'5'6-HxCB	34.01	2.04E+05	1.30 Y	1.26	1.19	-6.1%	
PCB-163/138/129 ...-HxCB	34.28	5.21E+05	1.33 Y	1.06	1.01	-4.7%	
PCB-160 233'456-HxCB	34.40	2.07E+05	1.33 Y	1.24	1.20	-3.6%	
PCB-158 233'44'6-HxCB	34.59	2.19E+05	1.13 Y	1.34	1.27	-5.4%	
PCB-128/166 ...-HxCB	35.31	3.16E+05	1.24 Y	0.93	0.87	-7.1%	
PCB-159 233'455'-HxCB	36.15	1.92E+05	1.34 Y	1.09	1.06	-3.1%	
PCB-162 233'4'55'-HxCB	36.39	1.90E+05	1.40 Y	1.08	1.05	-3.6%	
PCB-188 22'34'566'-HpCB	32.08	2.51E+05	1.22 N	1.10	1.05	-4.7%	
PCB-179 22'33'566'-HpCB	32.37	2.45E+05	1.12 Y	1.01	1.02	0.7%	
PCB-184 22'344'66'-HpCB	32.81	2.46E+05	1.02 Y	1.02	1.03	1.1%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:46			
Lab ID:	CS0_140205_PCB_SA			ICAL: MM4_PCB_10292013_05FEB2014			
Acquired:	05-FEB-2014 10:19						
Datafile:	140205S02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	33.11	2.60E+05	0.99 Y	1.08	1.09	0.3%	
PCB-186 22'34566'-HpCB	33.49	2.29E+05	0.89 Y	1.02	0.96	-6.4%	
PCB-178 22'33'55'6'-HpCB	34.65	1.73E+05	1.05 Y	0.75	0.72	-4.1%	
PCB-175 22'33'45'6'-HpCB	35.17	1.57E+05	1.11 Y	0.99	1.02	3.0%	
PCB-187 22'34'55'6'-HpCB	35.41	1.51E+05	0.97 Y	1.05	0.98	-5.9%	
PCB-182 22'344'56'-HpCB	35.57	1.72E+05	1.12 Y	1.08	1.12	3.9%	
PCB-183 22'344'5'6'-HpCB	35.91	1.70E+05	1.10 Y	1.07	1.11	3.1%	
PCB-185 22'3455'6'-HpCB	36.00	1.44E+05	0.99 Y	0.97	0.94	-3.1%	
PCB-174 22'33'456'-HpCB	36.12	1.20E+05	0.98 Y	0.89	0.78	-11.9%	
PCB-177 22'33'45'6'-HpCB	36.48	1.35E+05	1.19 Y	0.87	0.88	1.1%	
PCB-181 22'344'56'-HpCB	36.81	1.34E+05	1.24 N	0.98	0.88	-11.0%	
PCB-171/173 ...-HpCB	37.00	2.59E+05	0.98 Y	0.87	0.85	-3.1%	
PCB-172 22'33'455'-HpCB	38.36	1.33E+05	0.90 Y	0.88	0.87	-1.5%	
PCB-192 233'455'6'-HpCB	38.60	1.78E+05	1.14 Y	1.16	1.16	0.1%	
PCB-180/193 ...-HpCB	38.89	3.03E+05	1.05 Y	1.08	0.99	-8.3%	
PCB-191 233'44'5'6'-HpCB	39.21	1.67E+05	0.92 Y	1.17	1.09	-7.1%	
PCB-170 22'33'44'5'-HpCB	39.97	1.31E+05	0.98 Y	1.03	1.02	-0.9%	
PCB-190 233'44'56'-HpCB	40.41	1.84E+05	1.11 Y	1.44	1.42	-1.5%	
PCB-202 22'33'55'66'-OcCB	36.58	1.84E+05	0.88 Y	0.83	0.86	3.6%	
PCB-201 22'33'45'66'-OcCB	37.35	1.78E+05	0.79 Y	0.88	0.83	-6.1%	
PCB-204 22'344'566'-OcCB	37.92	1.85E+05	0.90 Y	0.86	0.86	0.4%	
PCB-197 22'33'44'66'-OcCB	38.10	2.05E+05	0.91 Y	0.93	0.96	3.1%	
PCB-200 22'33'4566'-OcCB	38.21	1.82E+05	0.79 Y	0.86	0.85	-1.6%	
PCB-198/199 ...-OcCB	40.54	2.51E+05	0.82 Y	0.61	0.58	-3.9%	
PCB-196 22'33'44'56'-OcCB	41.10	1.28E+05	0.74 N	0.62	0.60	-4.4%	
PCB-203 22'344'55'6'-OcCB	41.27	1.36E+05	0.86 Y	0.65	0.63	-3.0%	
PCB-195 22'33'44'56'-OcCB	42.39	1.11E+05	0.91 Y	0.81	0.81	0.1%	
PCB-194 22'33'44'55'-OcCB	44.35	1.19E+05	0.97 Y	0.89	0.87	-1.9%	
PCB-205 233'44'55'6'-OcCB	44.74	1.43E+05	0.92 Y	1.11	1.04	-6.0%	
PCB-208 22'33'455'66'-NoCB	42.18	1.41E+05	0.75 Y	1.01	0.93	-7.8%	
PCB-207 22'33'44'566'-NoCB	42.96	1.53E+05	0.79 Y	1.06	1.01	-4.6%	
PCB-206 22'33'44'55'6'-NoCB	46.20	1.11E+05	0.77 Y	1.01	1.01	-0.2%	

SGS-AP ID: CS0\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

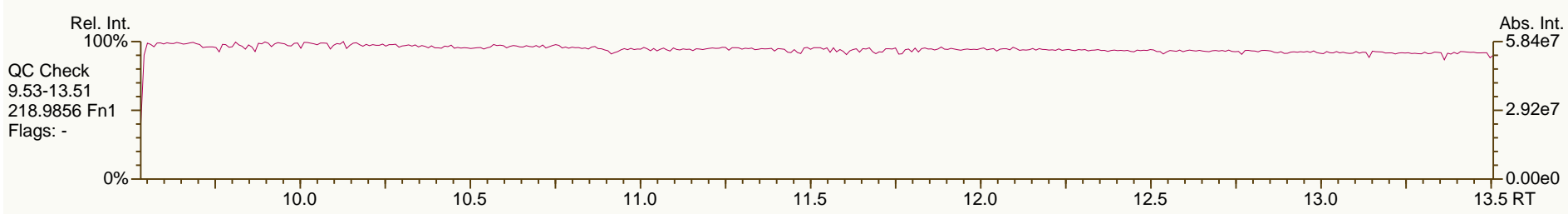
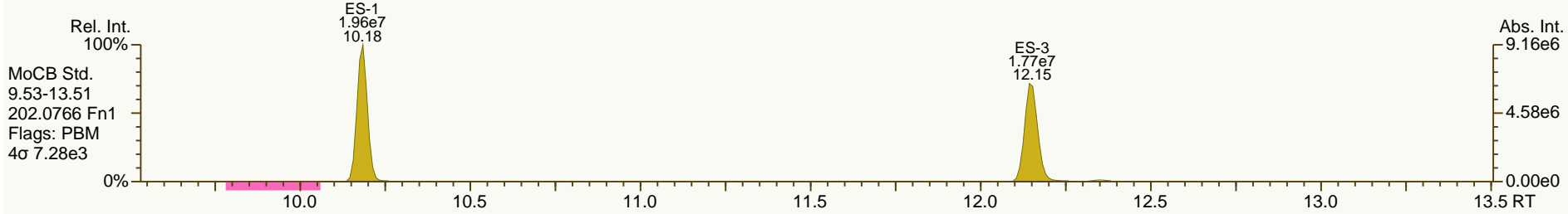
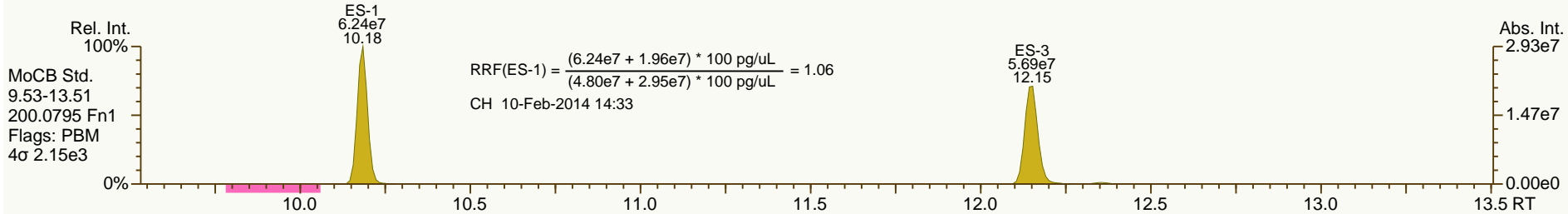
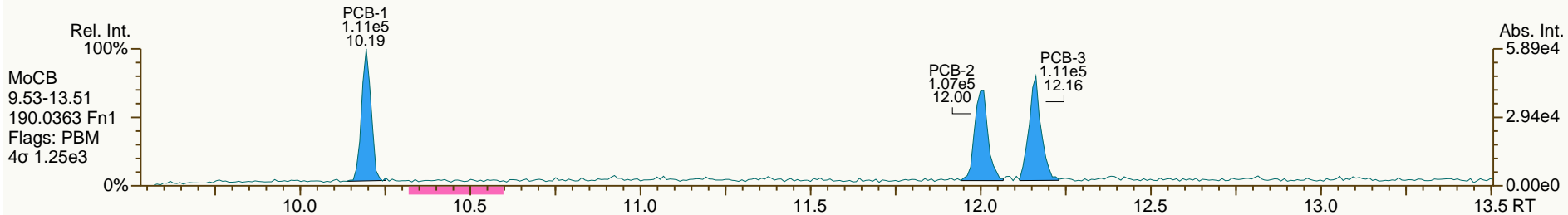
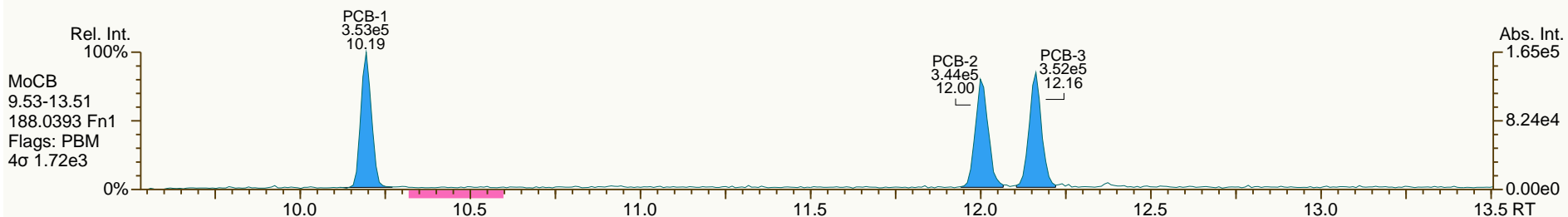
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SGS-AP ID: CS0\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

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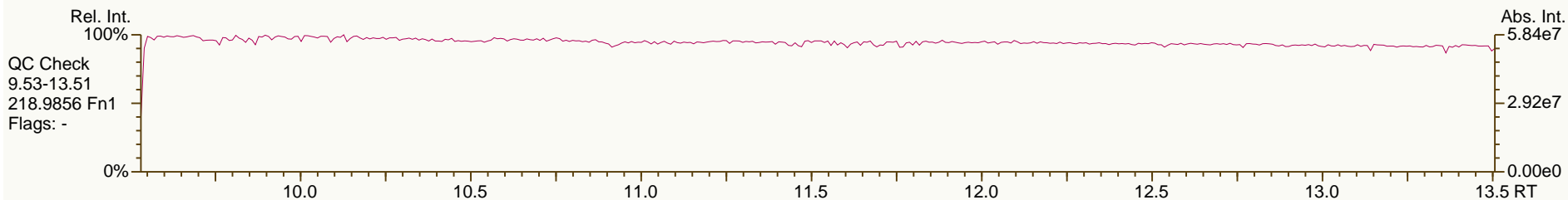
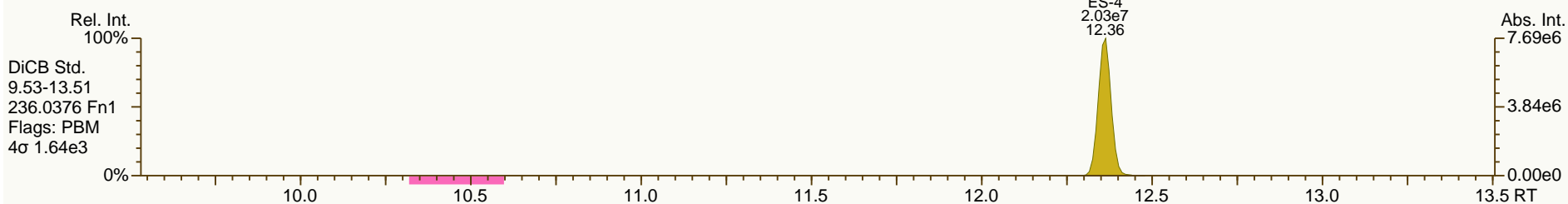
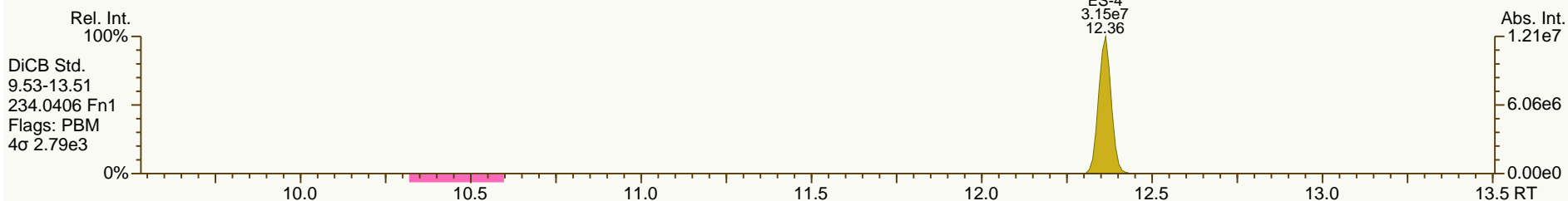
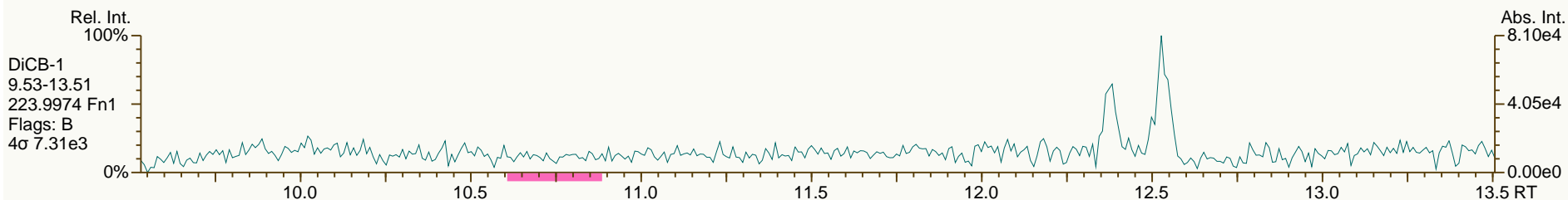
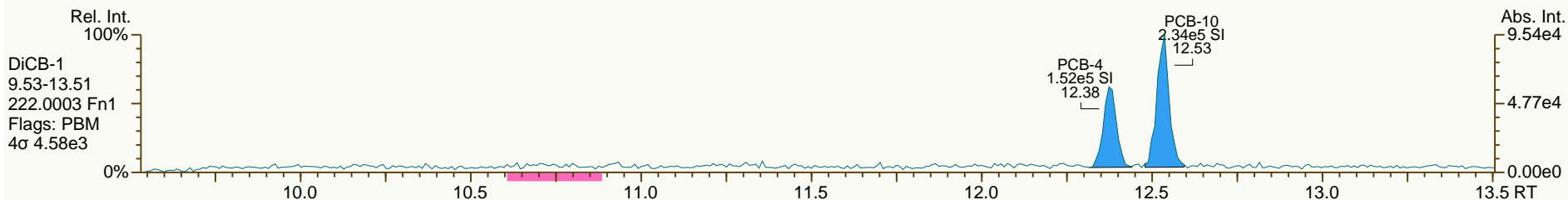
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SGS-AP ID: CS0\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

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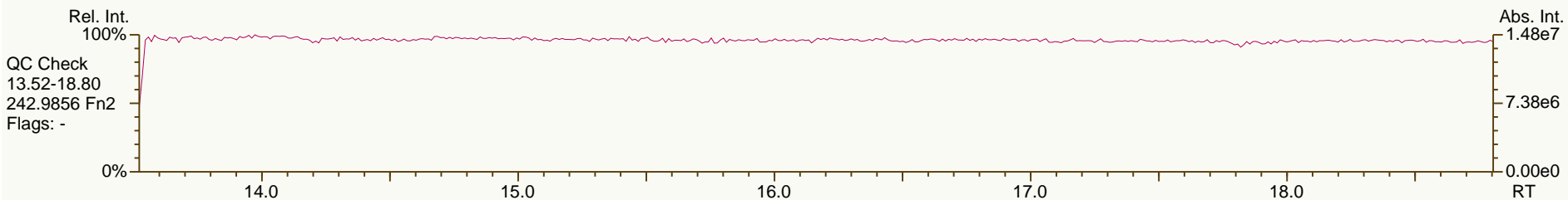
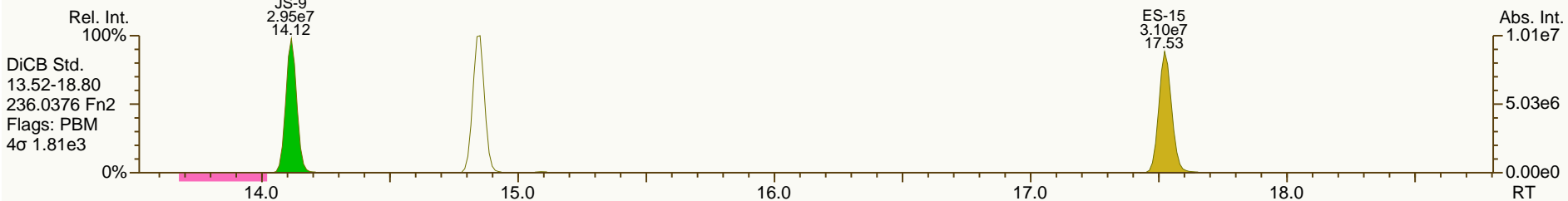
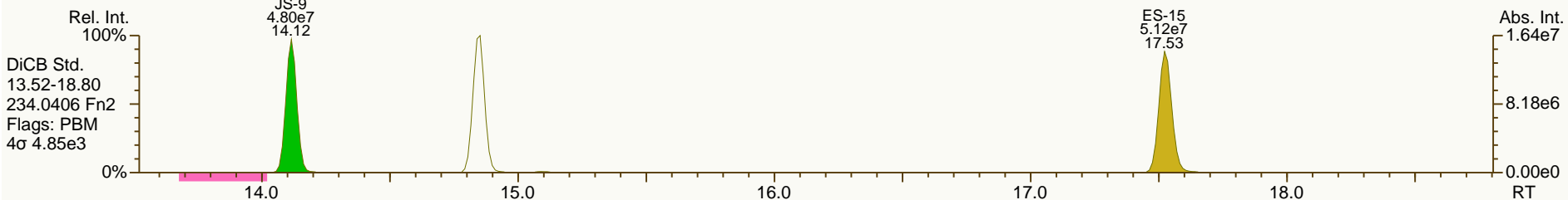
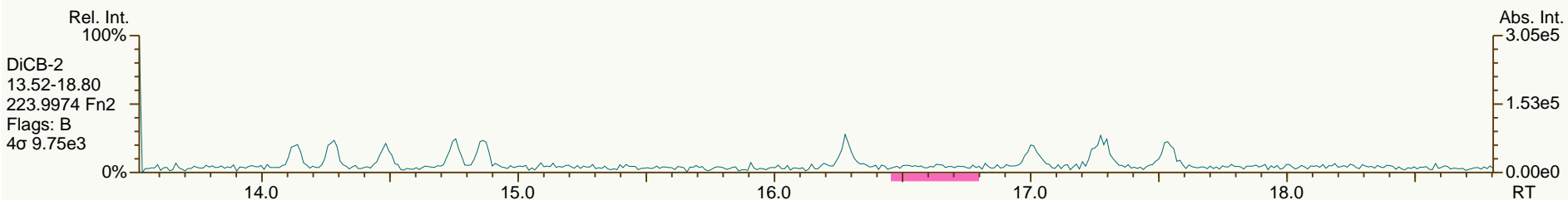
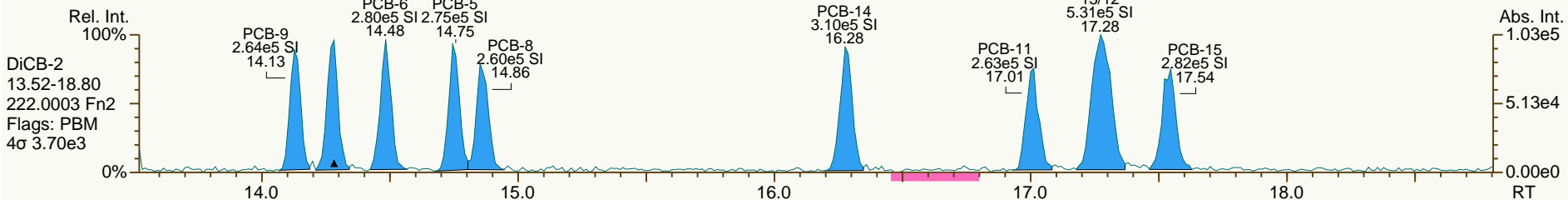




SGS-AP ID: CS0\_140205\_PCB\_SA  
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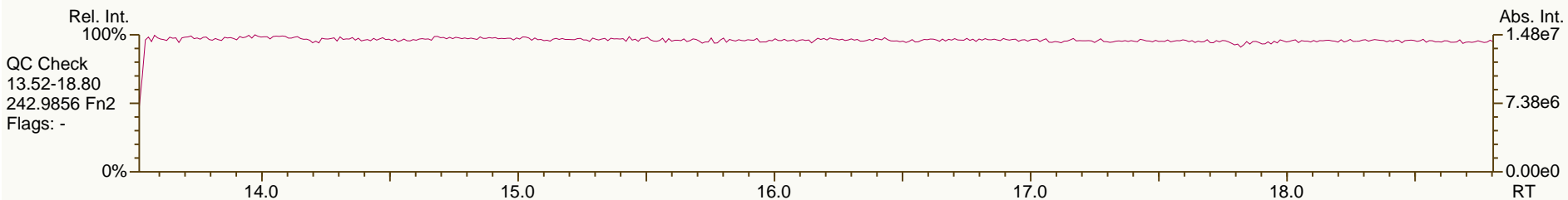
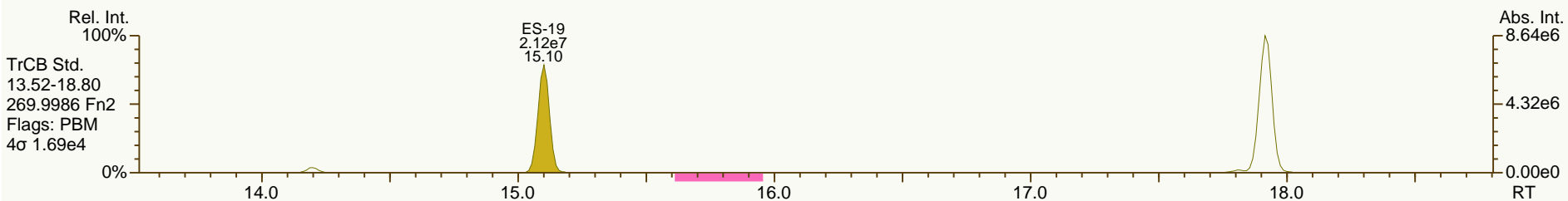
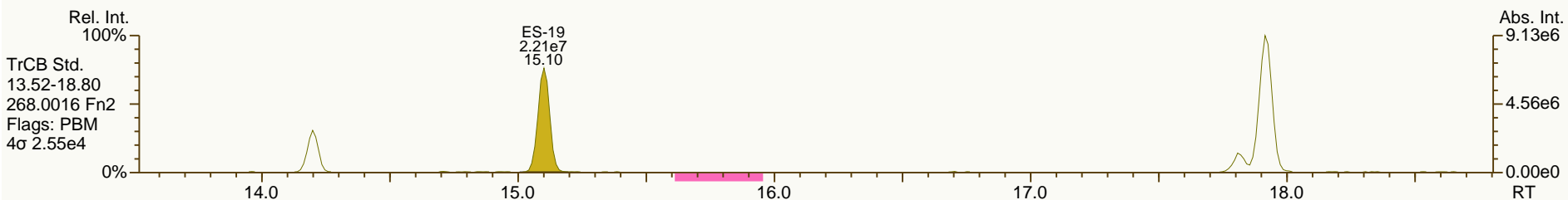
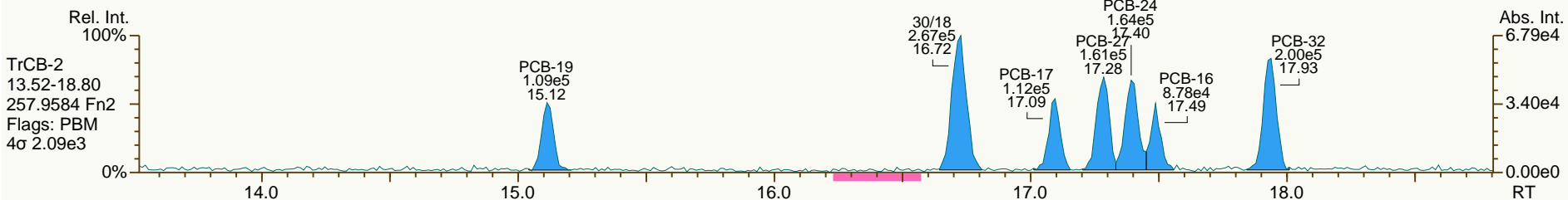
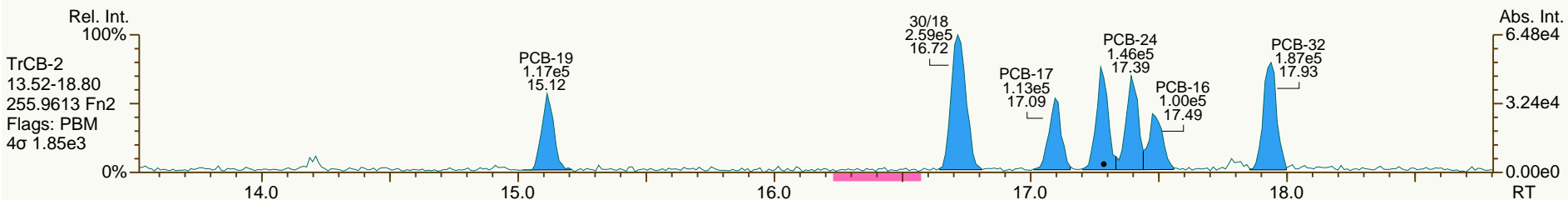
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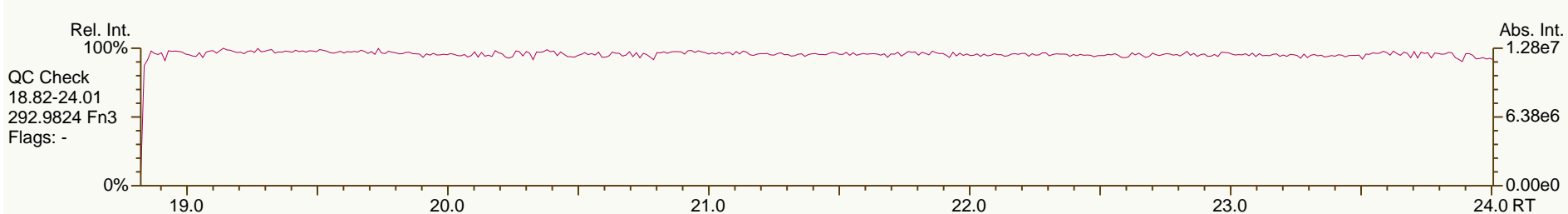
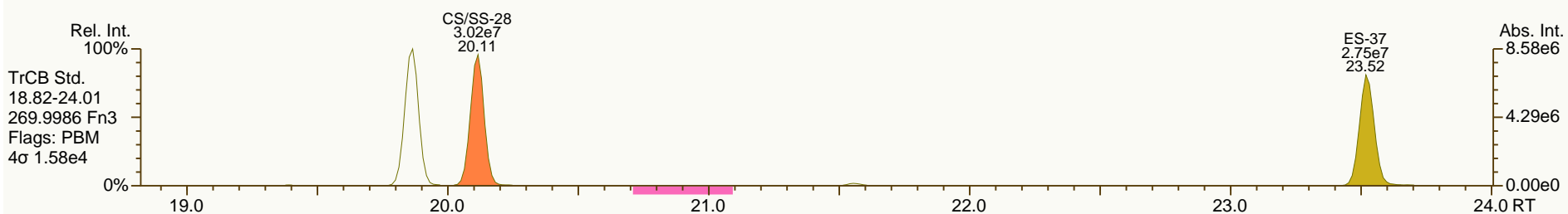
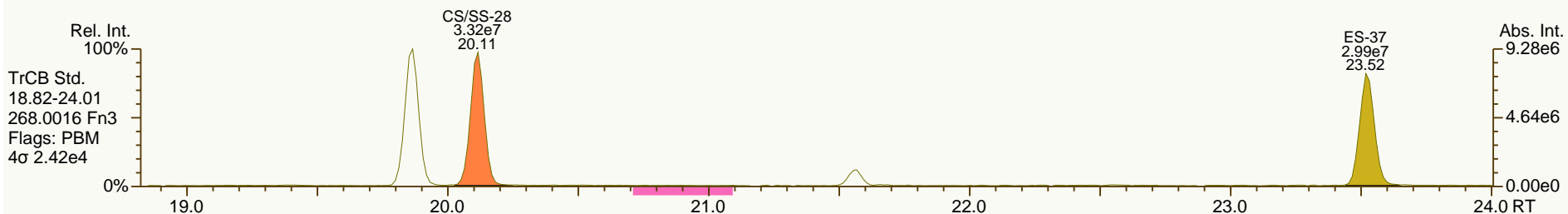
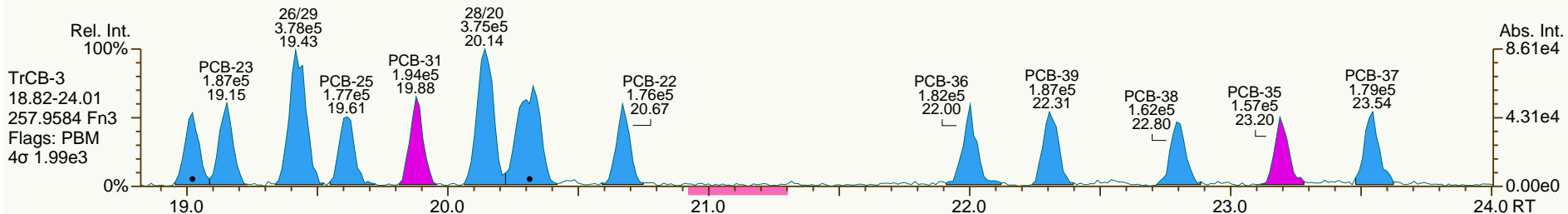
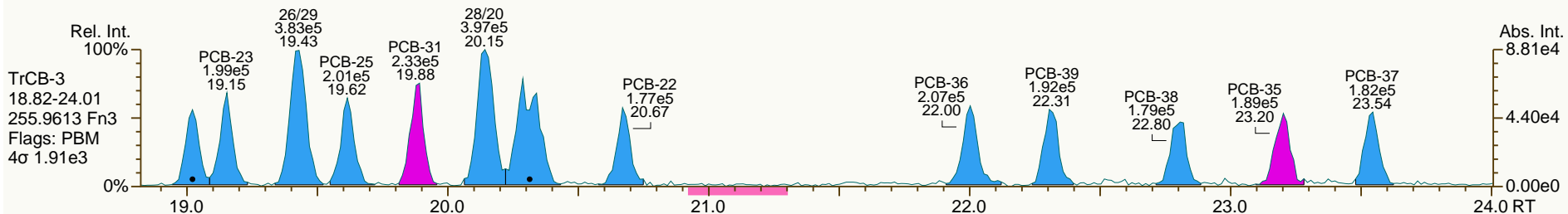
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Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
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SGS-AP ID: CS0\_140205\_PCB\_SA  
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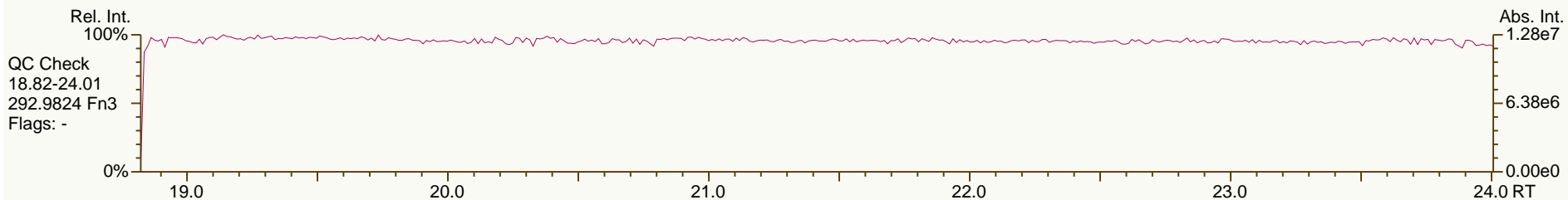
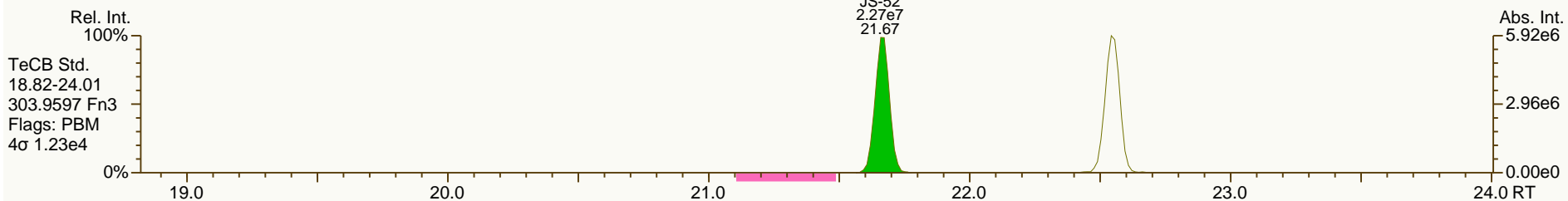
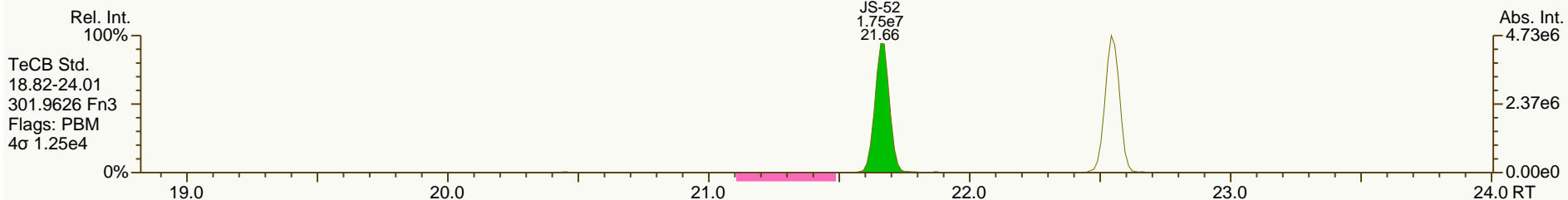
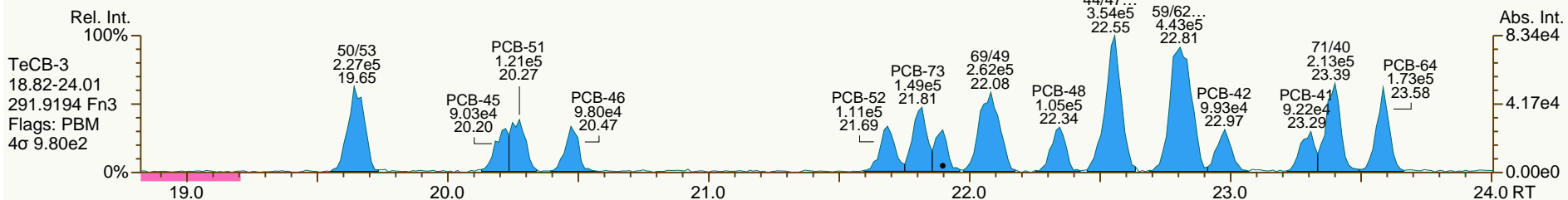
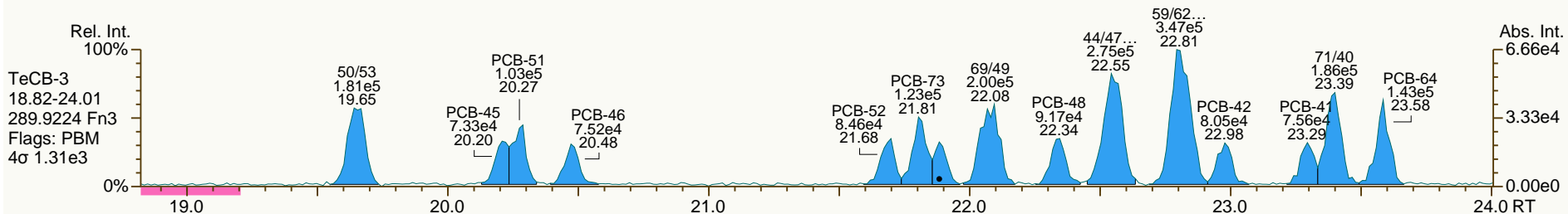
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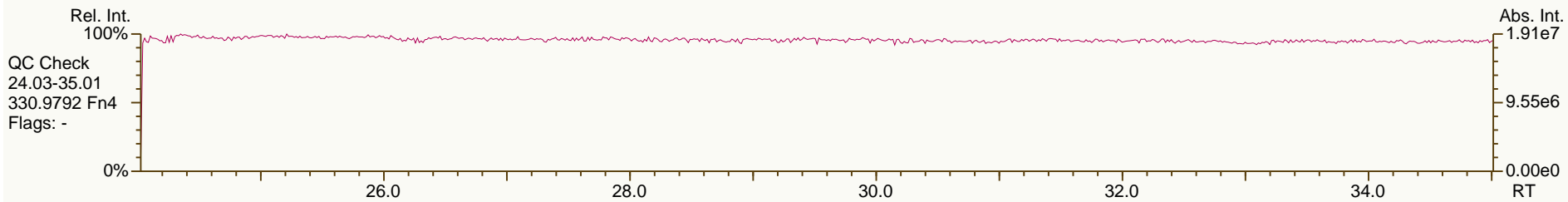
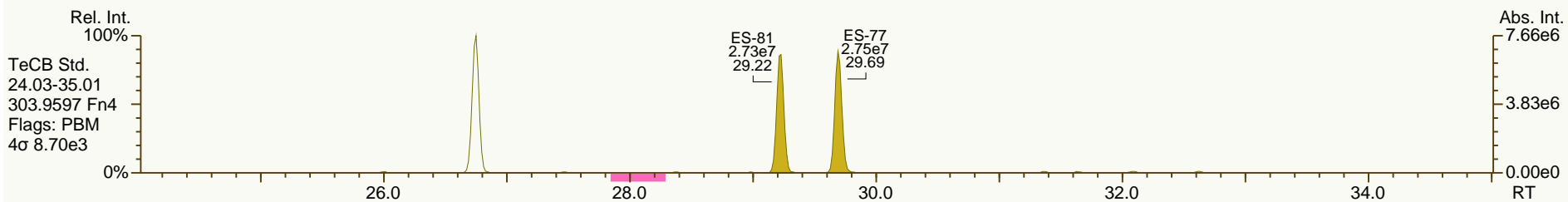
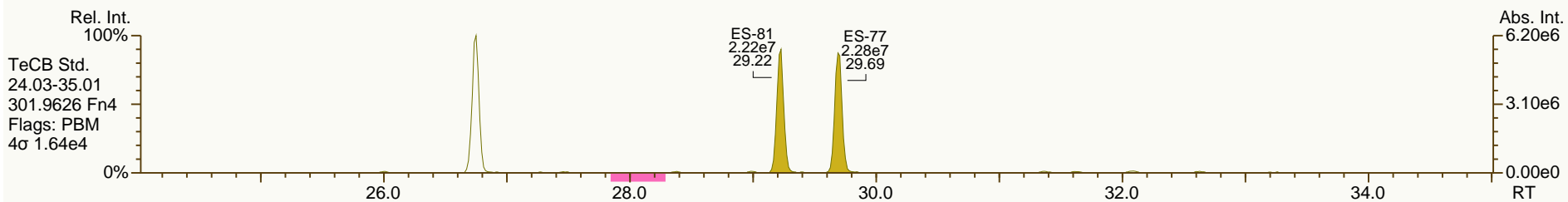
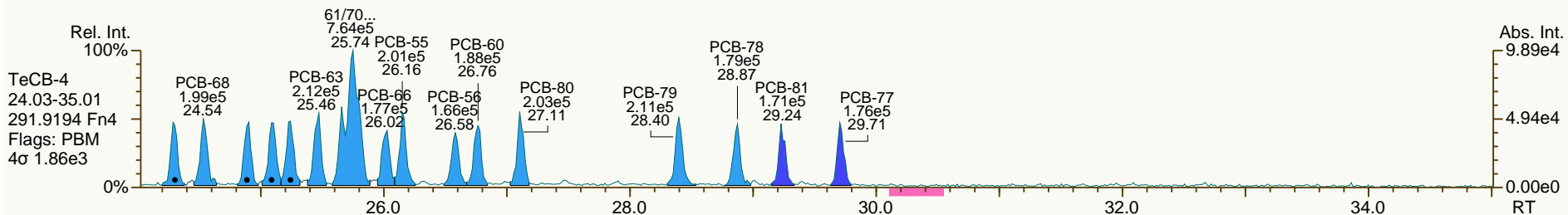
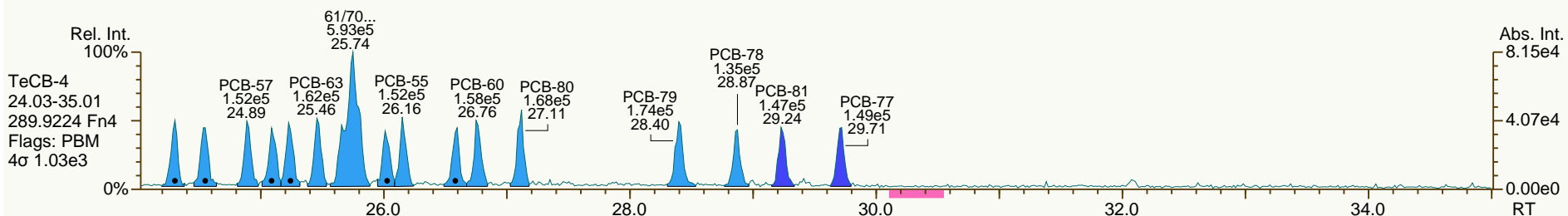
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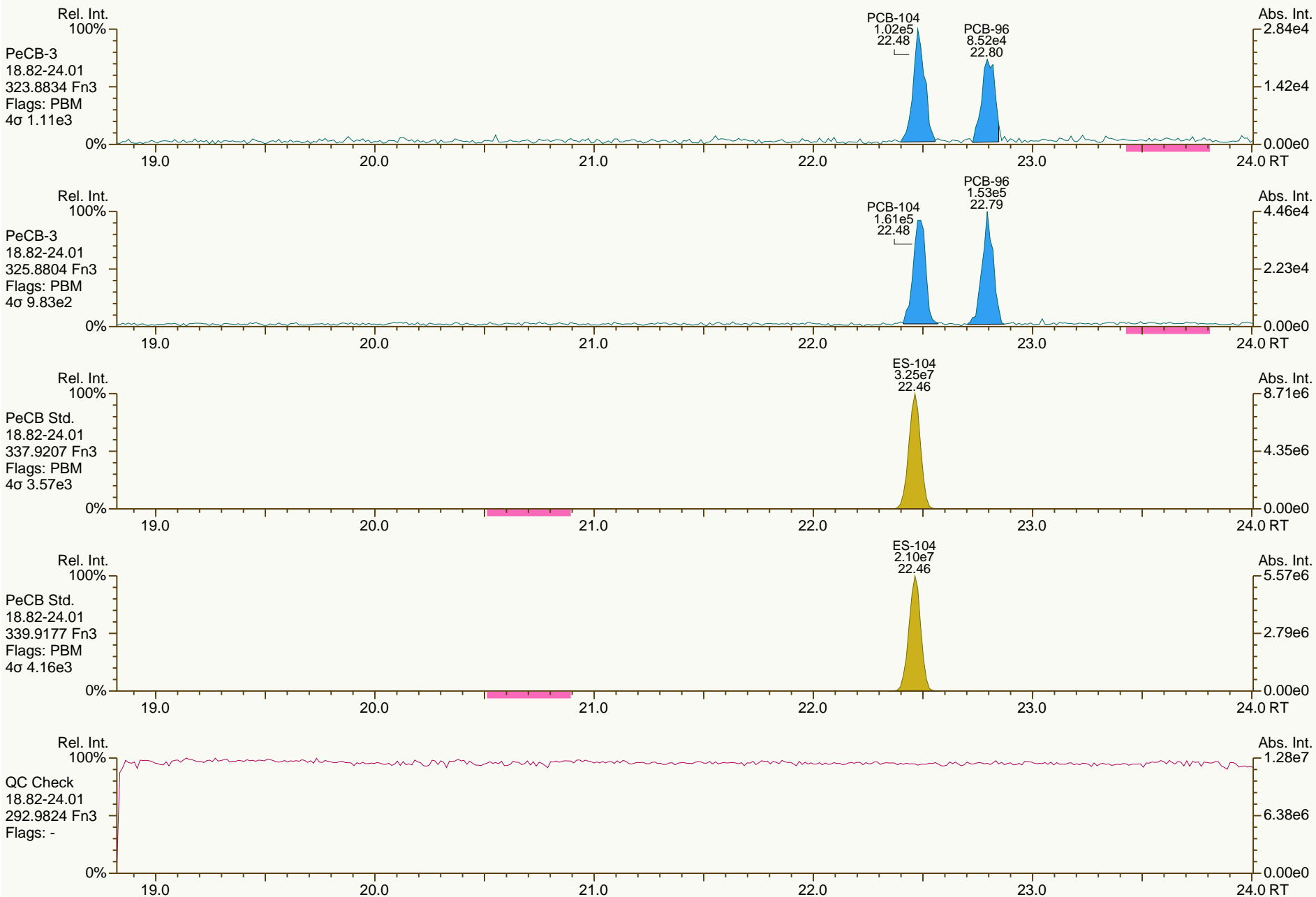
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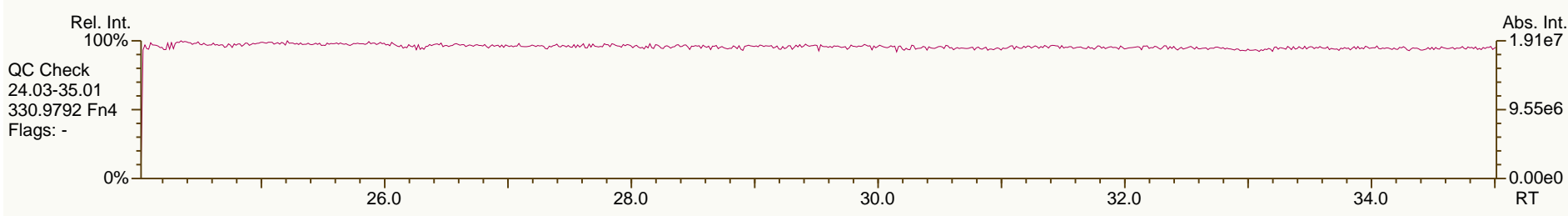
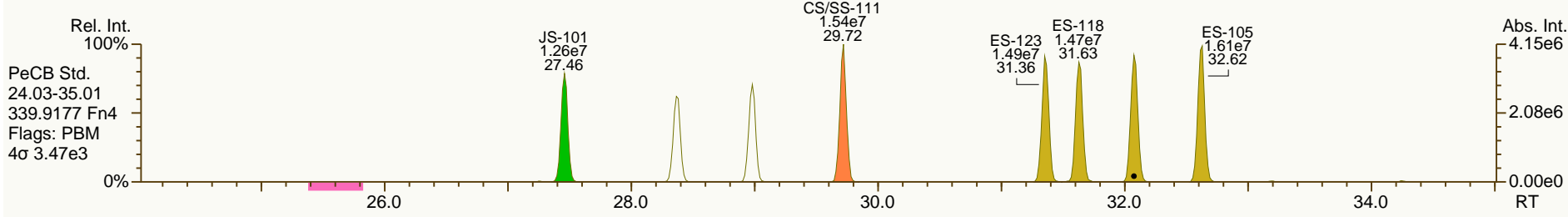
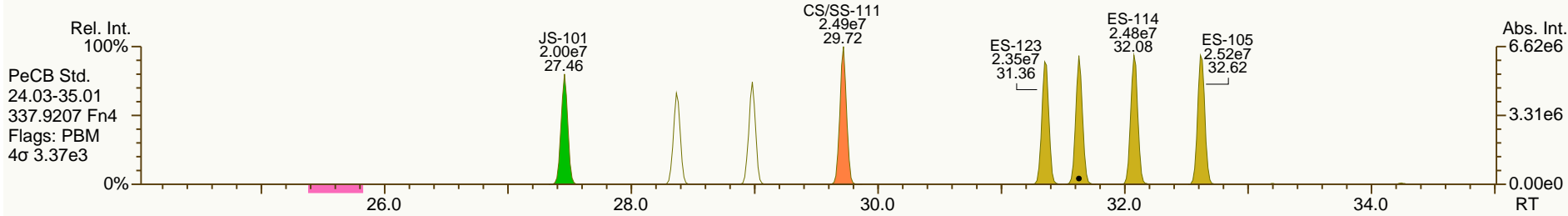
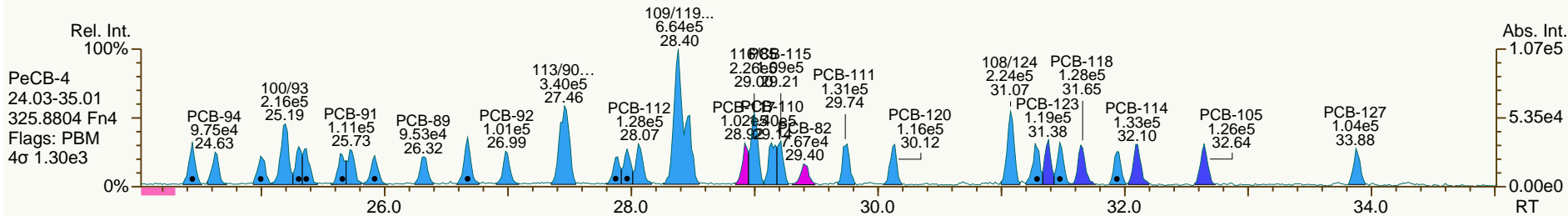
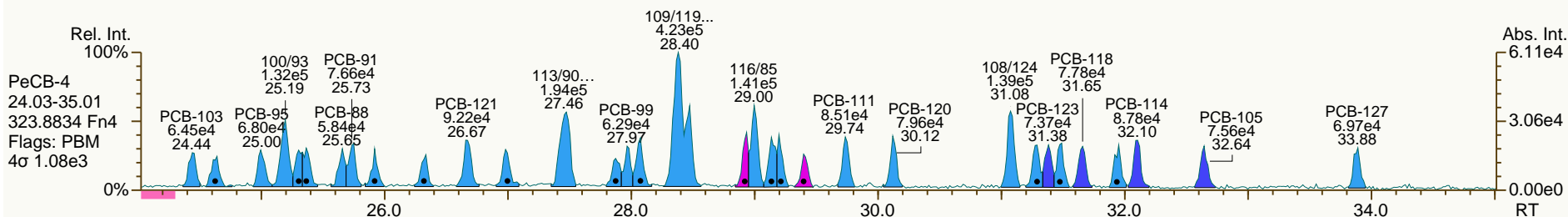
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Sample ID: SIL 13-79-6  
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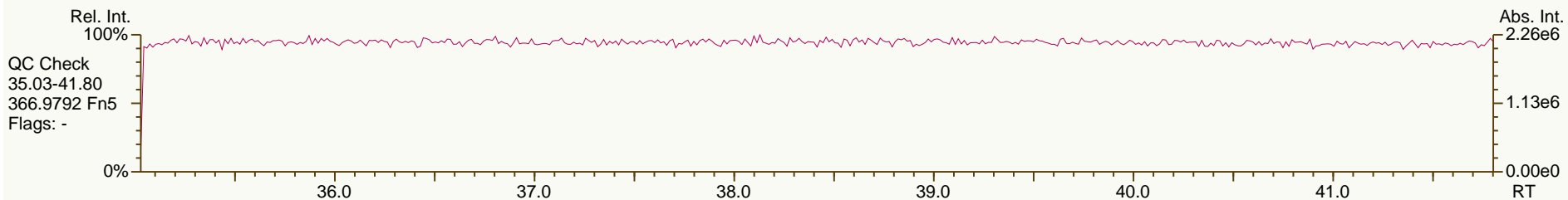
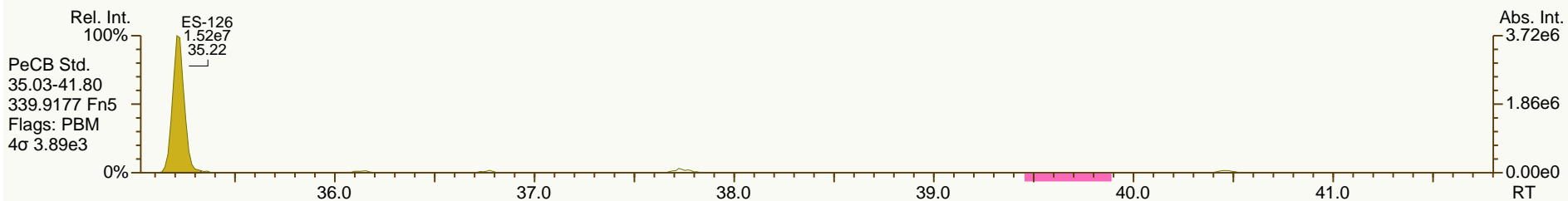
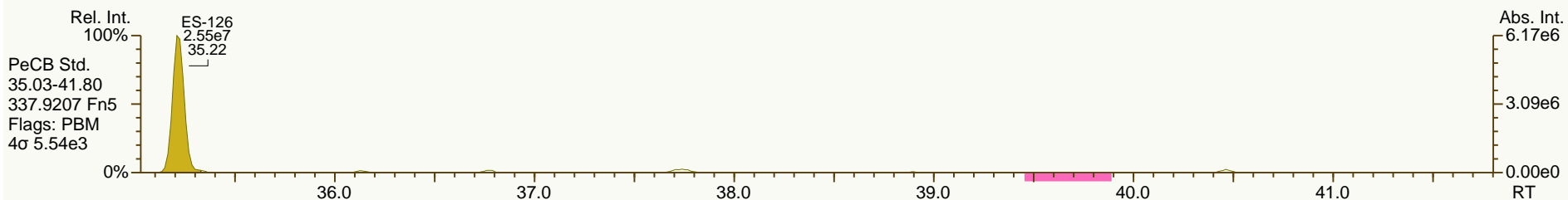
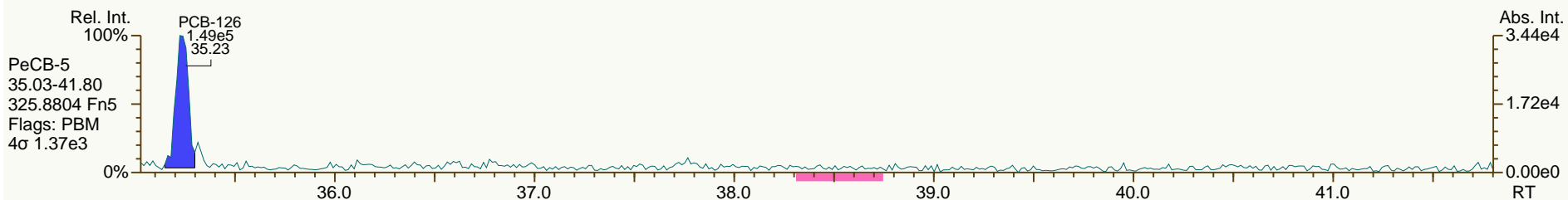
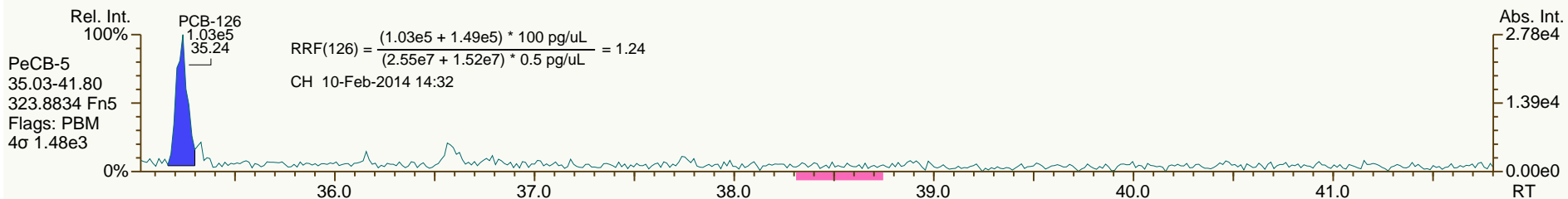




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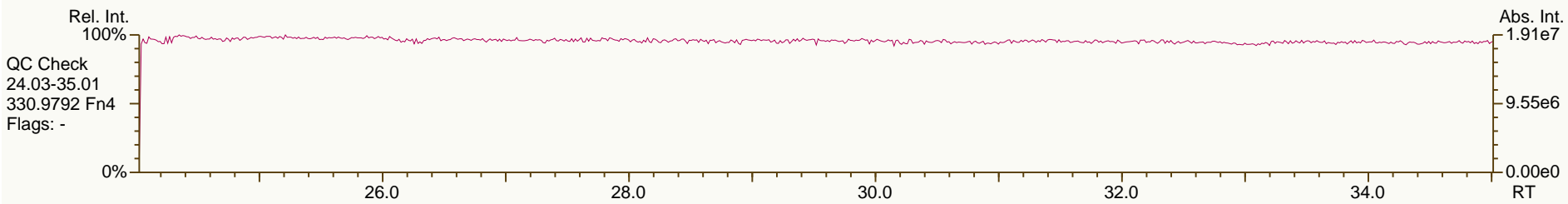
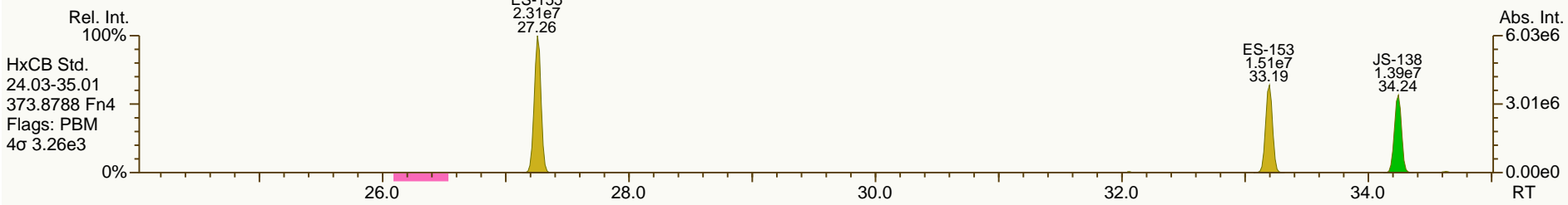
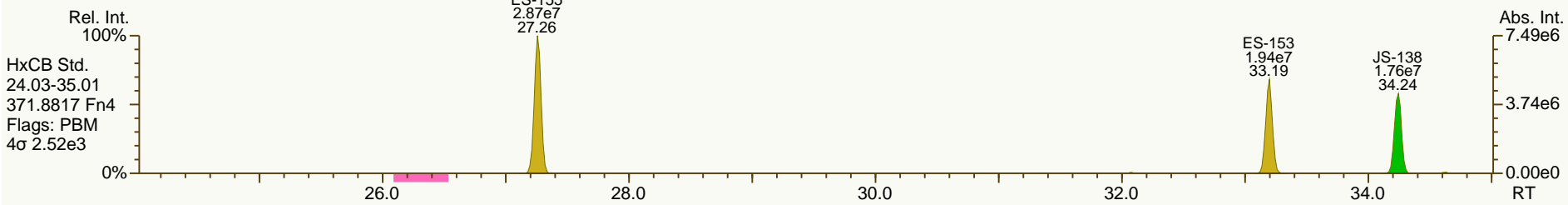
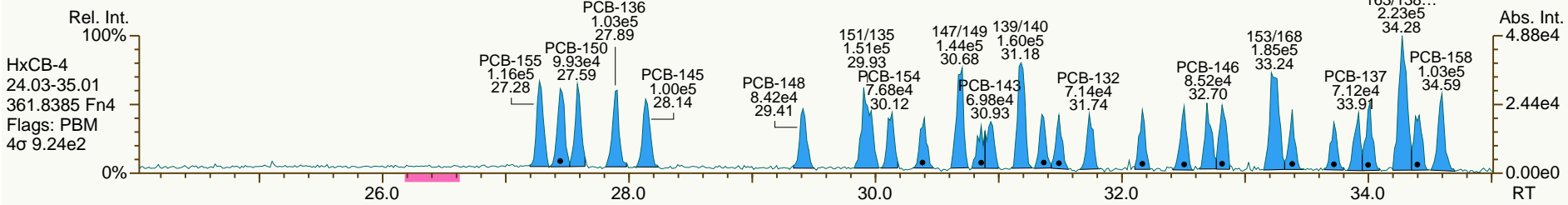
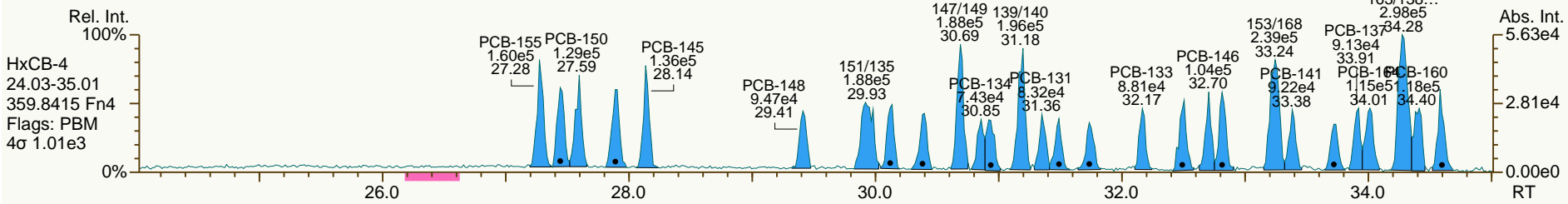
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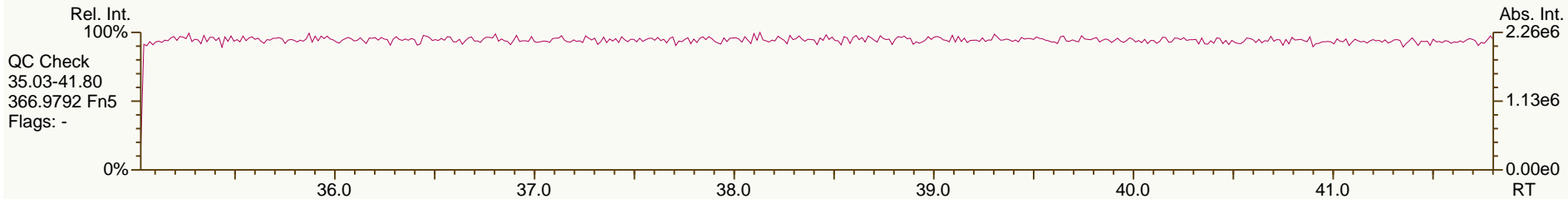
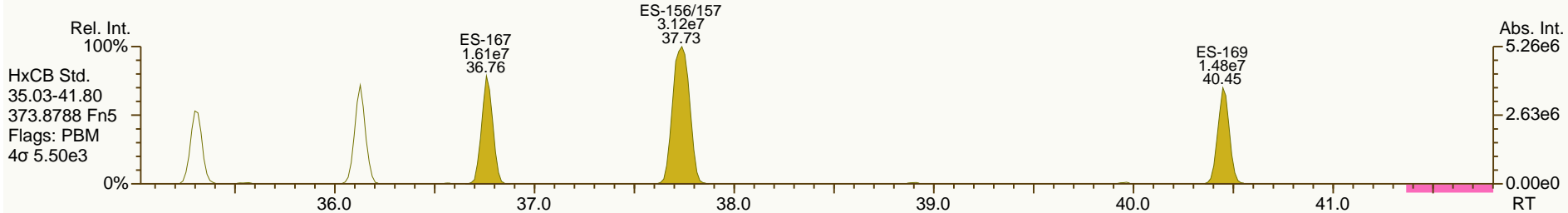
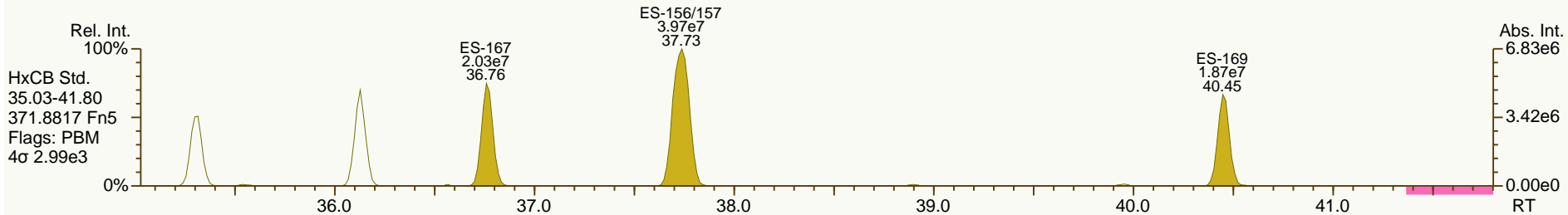
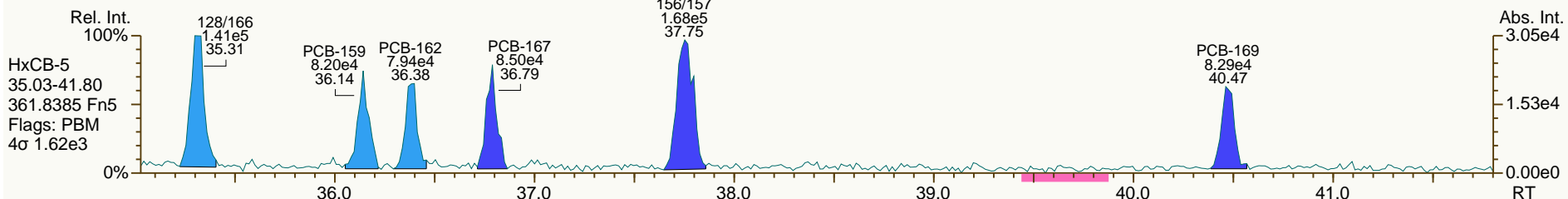
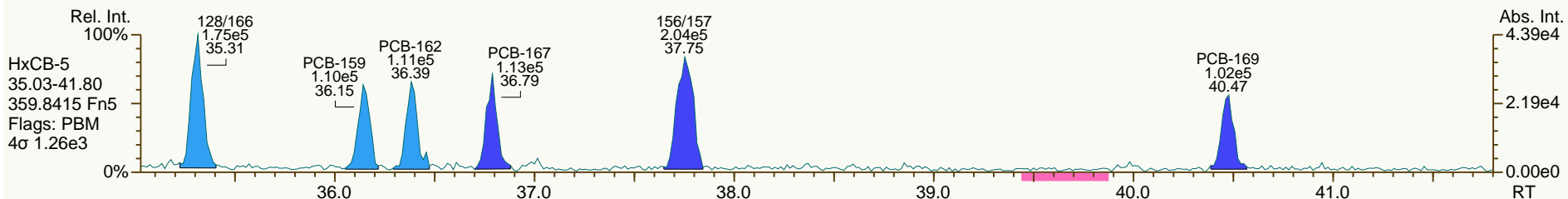
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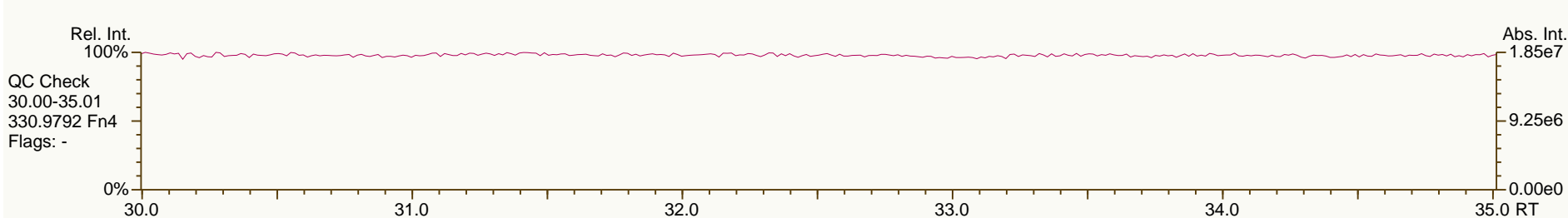
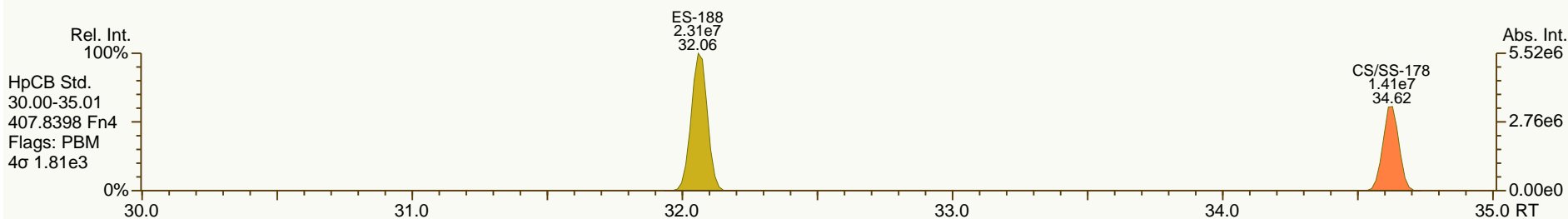
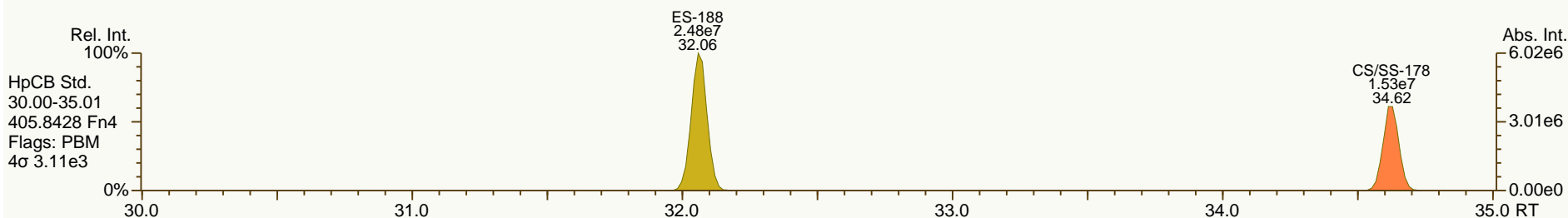
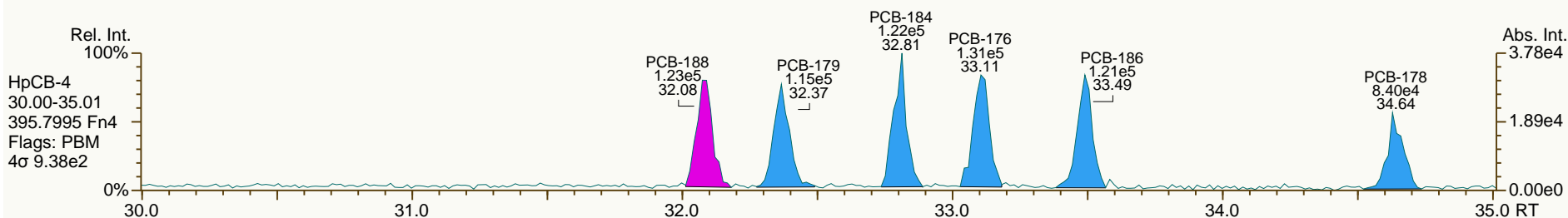
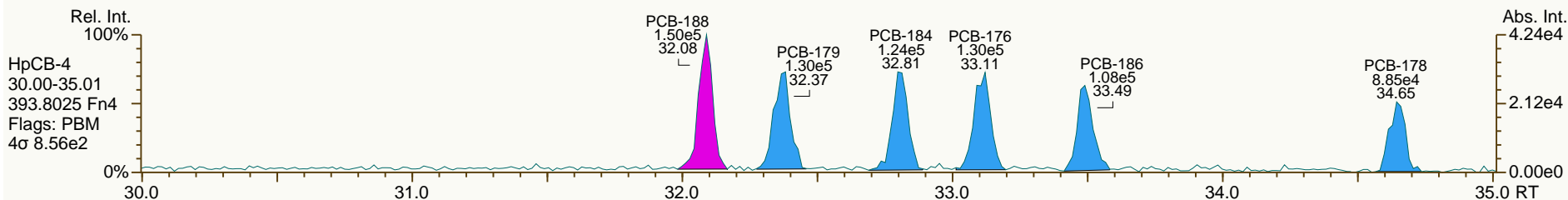
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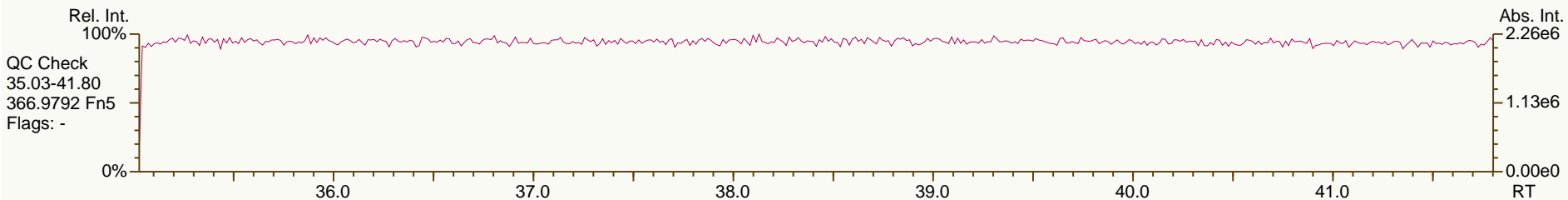
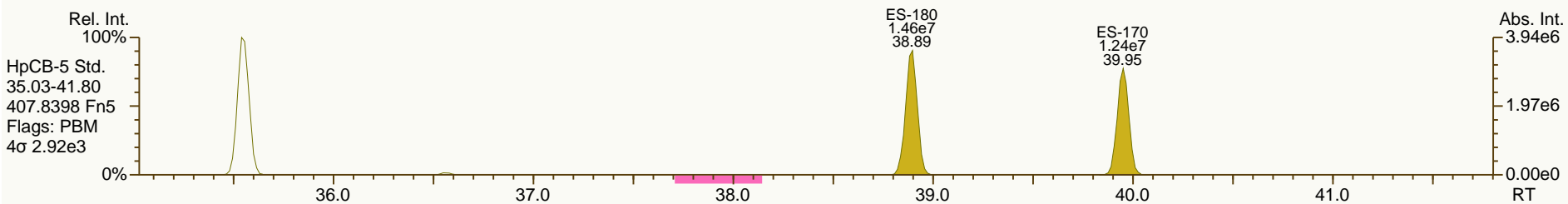
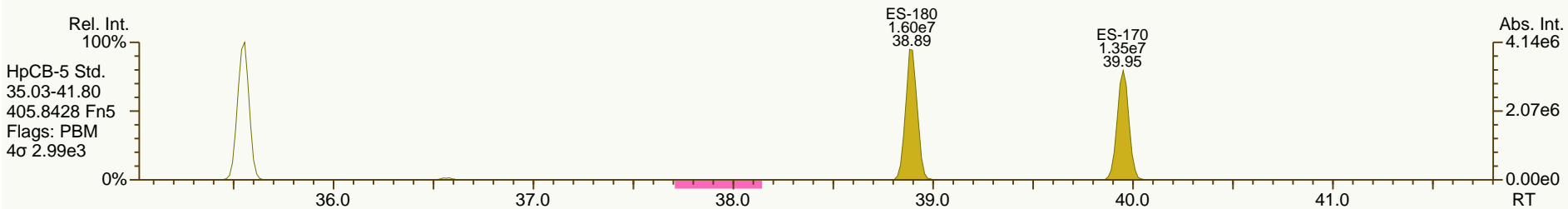
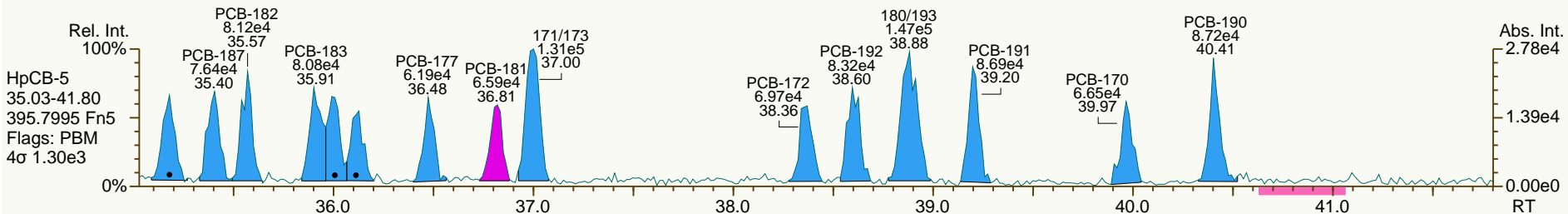
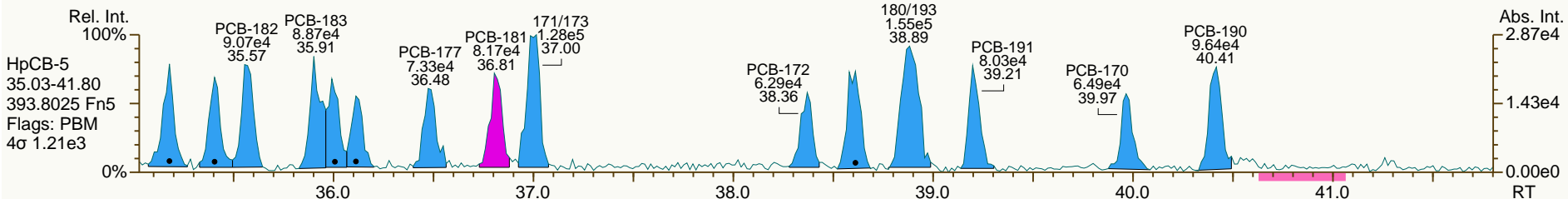
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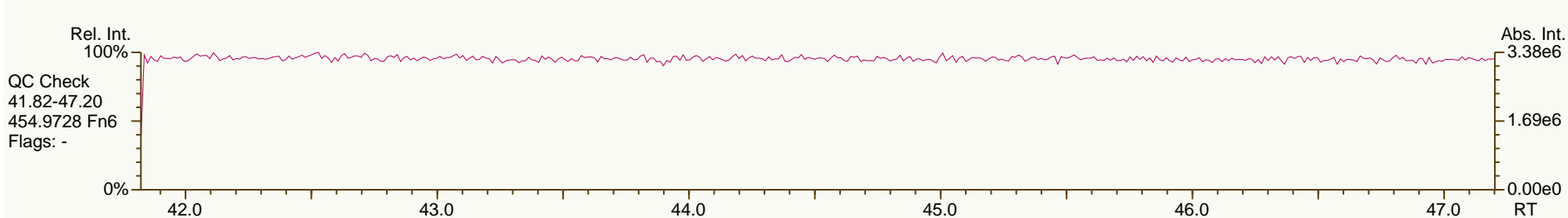
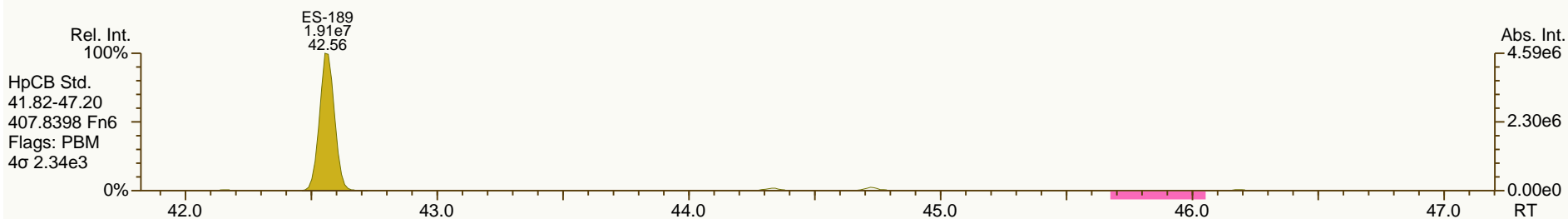
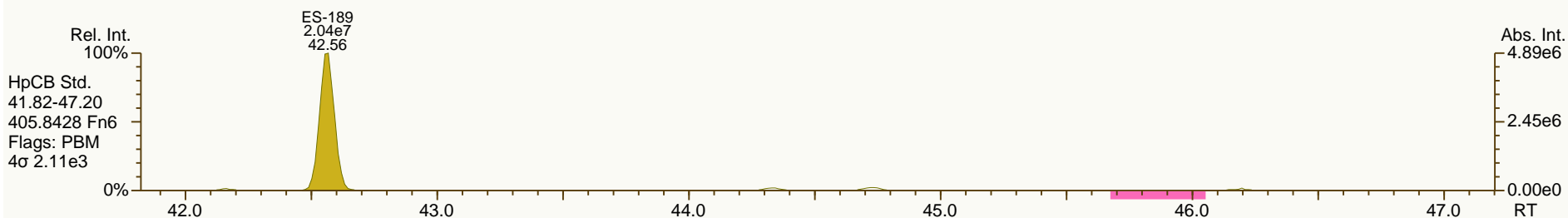
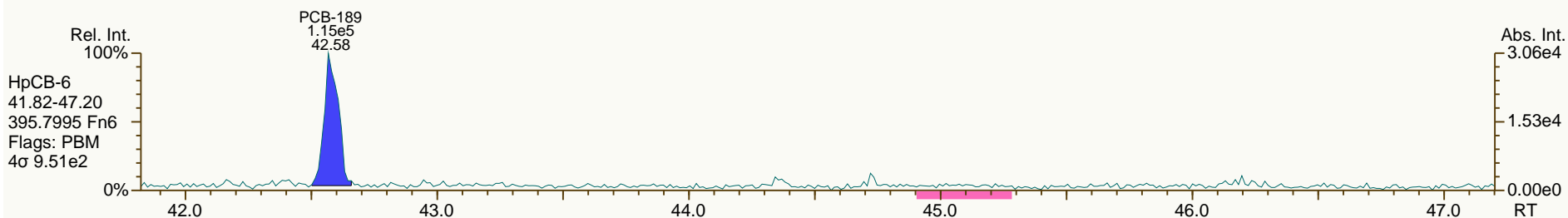
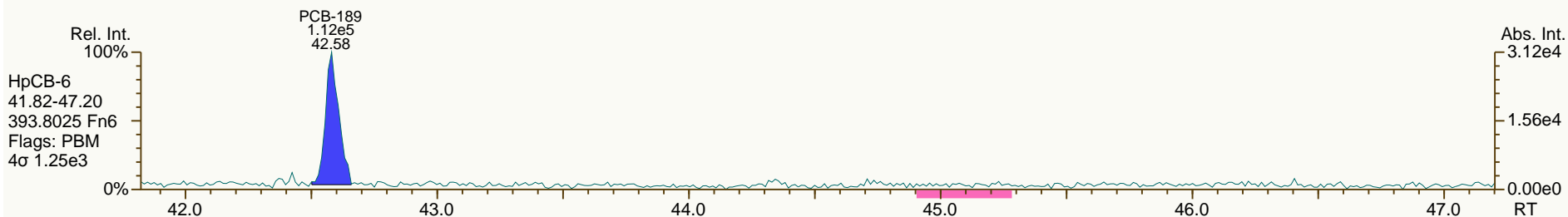
Acq: 05-Feb-2014 10:19:48  
 User: CTW Datafile: 140205S02



SGS-AP ID: CS0\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

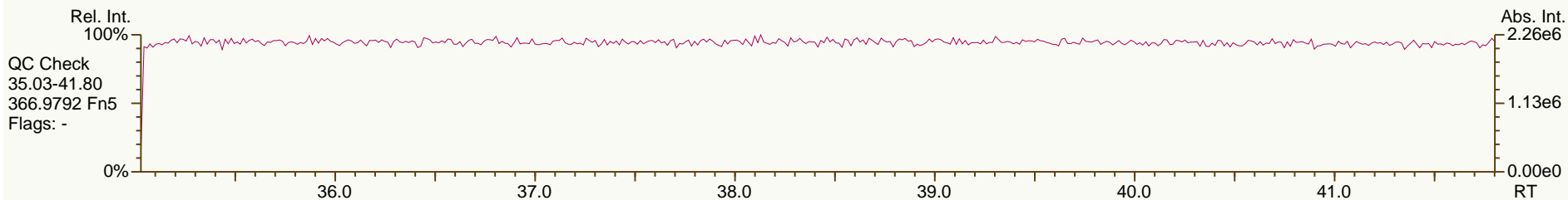
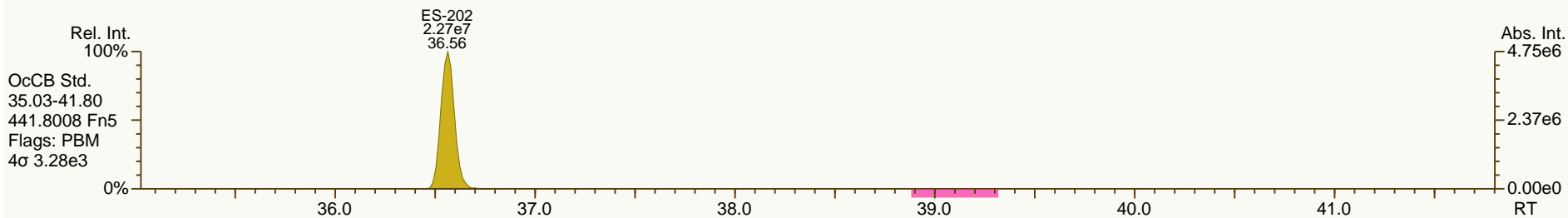
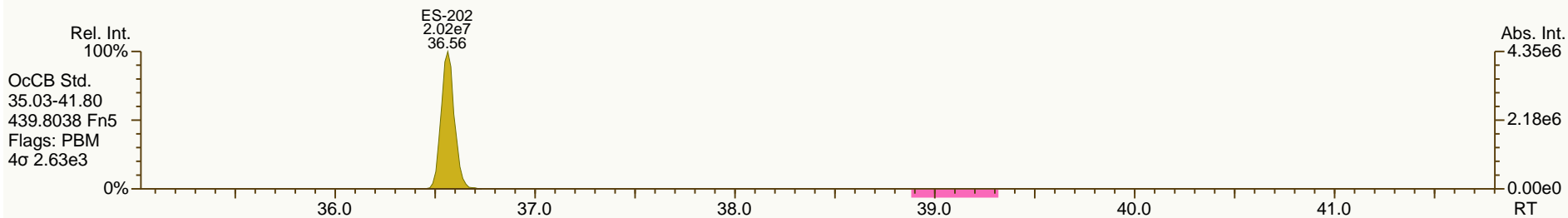
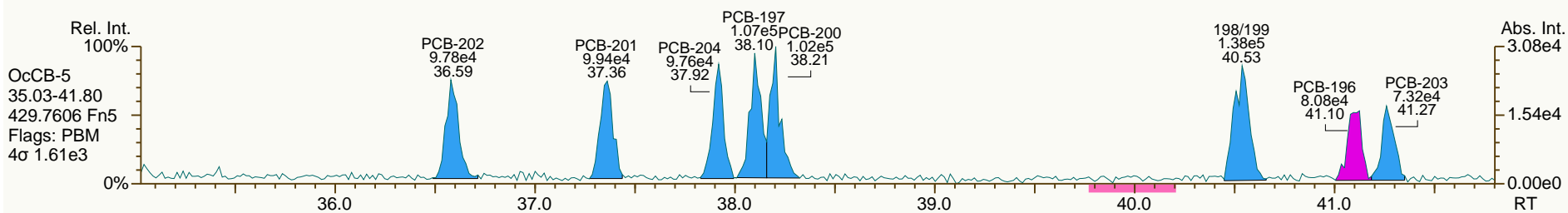
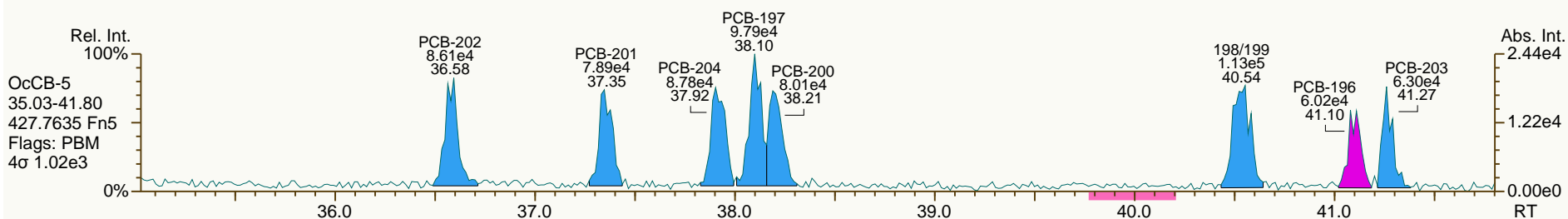
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User: CTW Datafile: 140205S02



SGS-AP ID: CS0\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

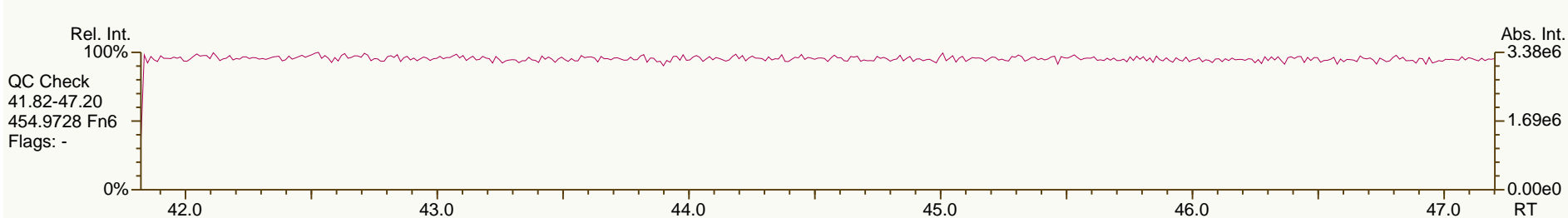
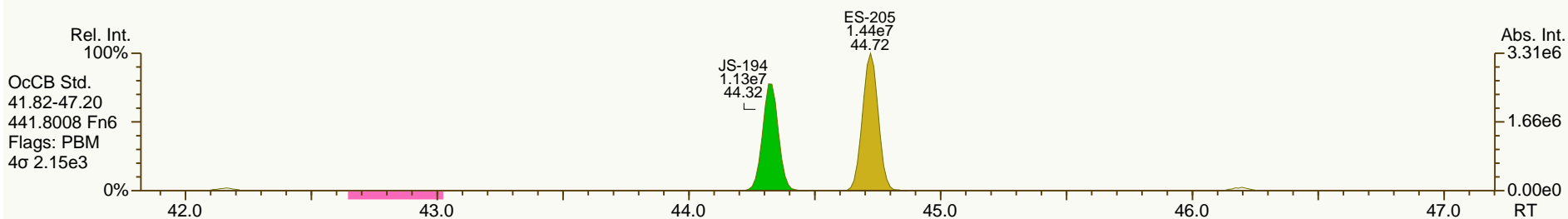
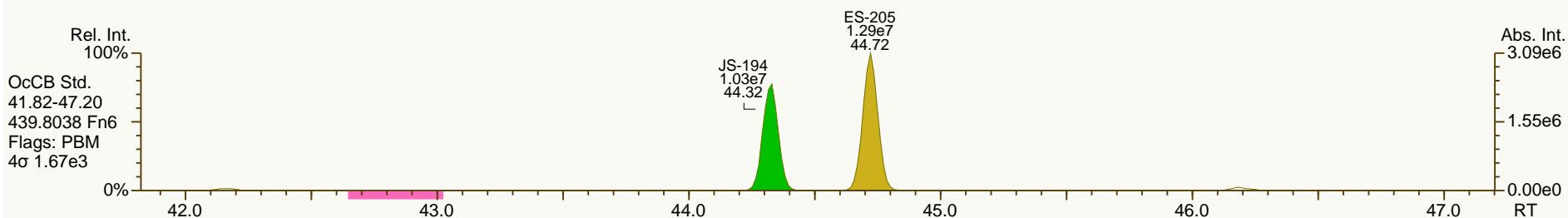
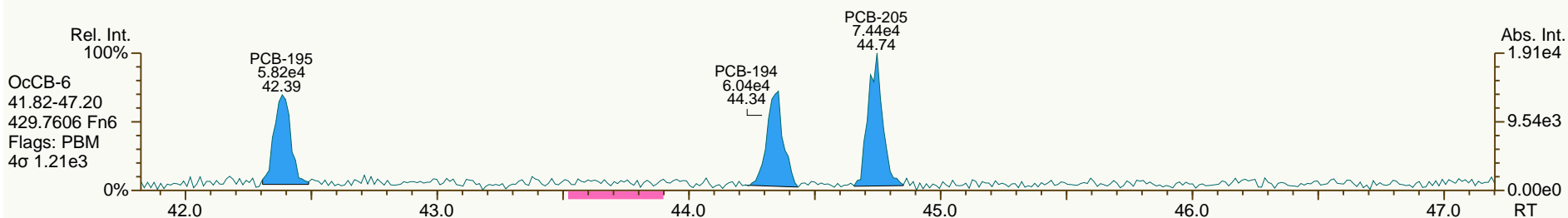
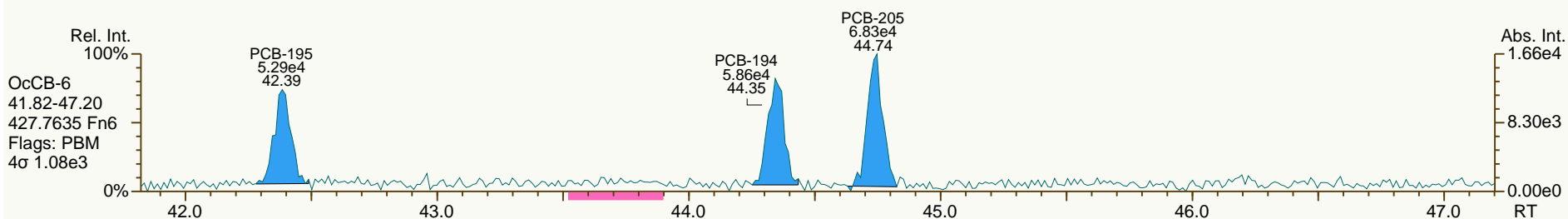
Acq: 05-Feb-2014 10:19:48  
User: CTW Datafile: 140205S02



SGS-AP ID: CS0\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

Acq: 05-Feb-2014 10:19:48  
User: CTW Datafile: 140205S02

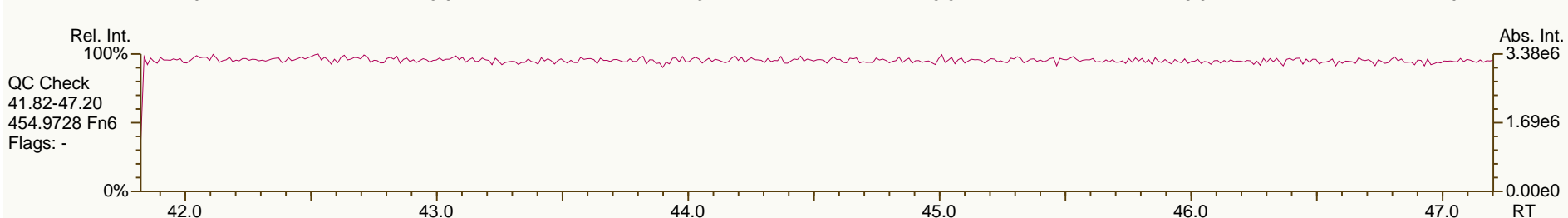
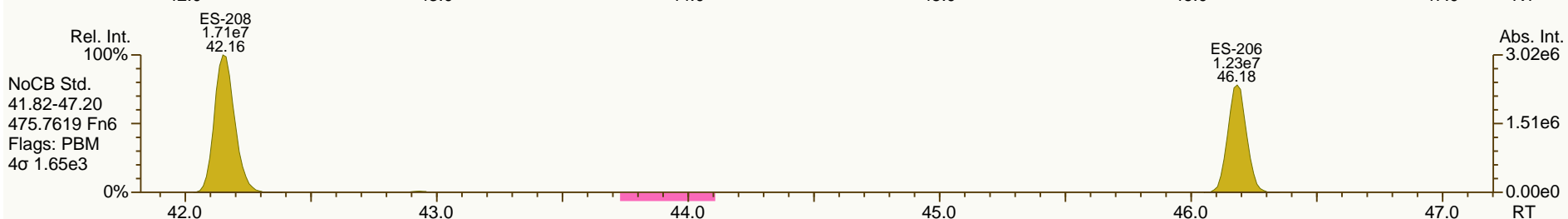
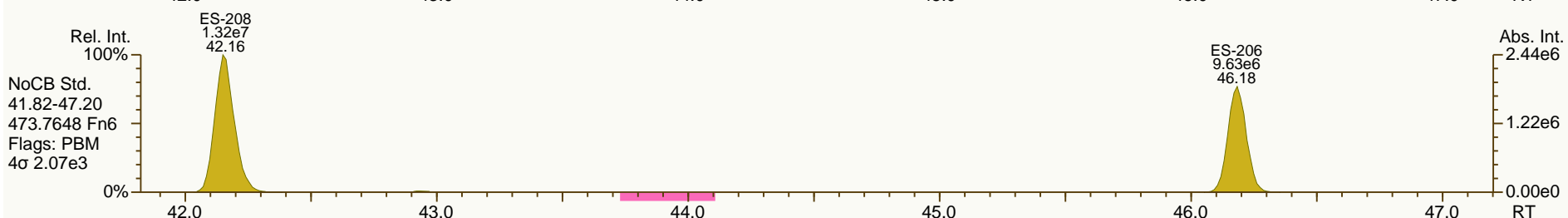
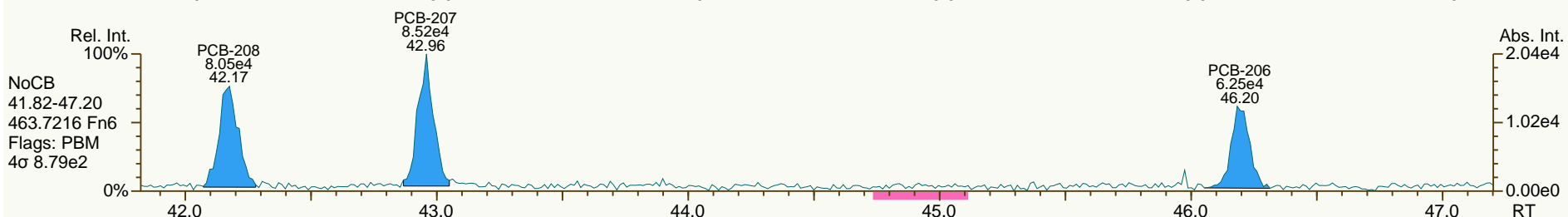
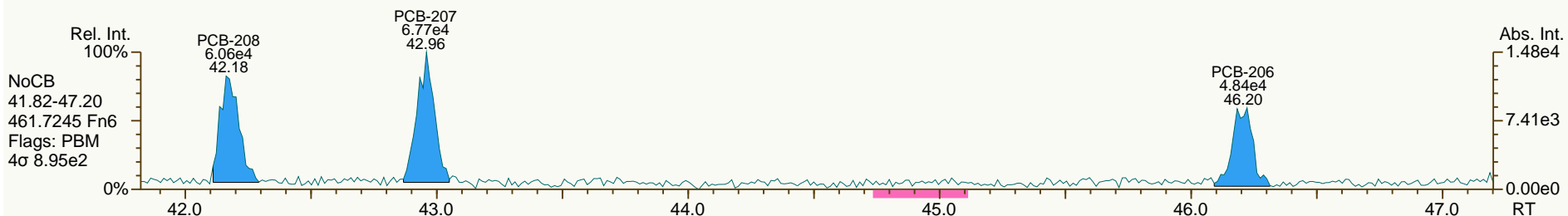




SGS-AP ID: CS0\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

Acq: 05-Feb-2014 10:19:48  
 User: CTW Datafile: 140205S02



SGS-AP ID: CS0\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 60

Acq: 05-Feb-2014 10:19:48  
User: CTW Datafile: 140205S02



PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:47			
Lab ID:	CS1_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014						
Acquired:	05-FEB-2014 11:24							
Datafile:	140205S03							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	29.72	6.12E+05	0.84 Y	1.36	1.30	-4.9%		
PCB-81 344'5'-TeCB	29.25	5.71E+05	0.82 Y	1.32	1.23	-6.6%		
PCB-105 233'44'-PeCB	32.65	3.82E+05	0.61 Y	1.03	0.98	-5.6%		
PCB-114 2344'5'-PeCB	32.11	4.13E+05	0.62 Y	1.13	1.10	-2.7%		
PCB-118 23'44'5'-PeCB	31.66	3.92E+05	0.59 Y	1.13	1.09	-3.3%		
PCB-123 23'44'5'-PeCB	31.38	3.77E+05	0.59 Y	1.11	1.05	-5.8%		
PCB-126 33'44'5'-PeCB	35.24	4.96E+05	0.60 Y	1.33	1.29	-3.4%		
PCB-156/157 ...-HxCB	37.76	6.96E+05	1.24 Y	1.09	1.03	-5.8%		
PCB-167 23'44'55'-HxCB	36.79	3.73E+05	1.12 Y	1.15	1.06	-7.7%		
PCB-169 33'44'55'-HxCB	40.47	3.34E+05	1.29 Y	1.10	1.02	-6.9%		
PCB-189 233'44'55'-HpCB	42.59	4.47E+05	1.03 Y	1.21	1.18	-2.4%		
PCB-209 DeCB	47.55	2.72E+05	1.15 Y	1.07	1.01	-5.4%		
ES PCB-1	10.20	7.75E+07	3.17 Y	1.05	1.06	0.9%		
ES PCB-3	12.16	7.01E+07	3.27 Y	0.97	0.96	-0.7%		
ES PCB-4	12.38	4.87E+07	1.58 Y	0.66	0.67	1.3%		
ES PCB-15	17.54	7.67E+07	1.63 Y	1.09	1.05	-3.0%		
ES PCB-19	15.11	4.00E+07	1.05 Y	0.55	0.55	0.1%		
ES PCB-37	23.54	5.32E+07	1.11 Y	1.44	1.38	-4.4%		
ES PCB-54	17.78	5.51E+07	0.77 Y	1.42	1.43	0.3%		
ES PCB-77	29.70	4.72E+07	0.82 Y	1.26	1.22	-3.0%		
ES PCB-81	29.23	4.65E+07	0.82 Y	1.27	1.20	-5.0%		
ES PCB-104	22.47	4.93E+07	1.58 Y	1.56	1.58	1.9%		
ES PCB-105	32.63	3.92E+07	1.58 Y	1.23	1.26	2.2%		
ES PCB-114	32.08	3.75E+07	1.63 Y	1.20	1.21	0.3%		
ES PCB-118	31.64	3.59E+07	1.60 Y	1.13	1.15	2.0%		
ES PCB-123	31.36	3.59E+07	1.58 Y	1.16	1.16	-0.7%		
ES PCB-126	35.22	3.86E+07	1.65 Y	1.22	1.24	1.7%		
ES PCB-153	33.20	3.24E+07	1.28 Y	1.10	1.09	-1.2%		
ES PCB-155	27.27	4.83E+07	1.29 Y	1.60	1.62	1.4%		
ES PCB-156/157	37.74	6.77E+07	1.28 Y	1.14	1.14	0.2%		
ES PCB-167	36.77	3.51E+07	1.26 Y	1.17	1.18	1.1%		
ES PCB-169	40.46	3.27E+07	1.26 Y	1.11	1.10	-0.5%		
ES PCB-170	39.95	2.52E+07	1.04 Y	1.18	1.18	0.1%		
ES PCB-180	38.90	2.97E+07	1.06 Y	1.44	1.40	-2.9%		
ES PCB-188	32.07	4.55E+07	1.06 Y	1.52	1.53	0.6%		
ES PCB-189	42.57	3.78E+07	1.08 Y	1.80	1.77	-1.5%		
ES PCB-202	36.57	4.15E+07	0.91 Y	1.39	1.40	0.7%		
ES PCB-205	44.72	2.66E+07	0.88 Y	1.26	1.25	-0.8%		
ES PCB-206	46.19	2.11E+07	0.79 Y	1.00	0.99	-0.8%		
ES PCB-208	42.16	2.95E+07	0.77 Y	1.38	1.38	0.3%		
ES PCB-209	47.54	2.70E+07	1.19 Y	1.26	1.27	0.5%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:47		
Lab ID:	CS1_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 11:24						
Datafile:	140205S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	20.13	6.00E+07	1.09 Y	1.10	1.13	2.5%	
SS PCB-111	29.72	3.73E+07	1.58 Y	1.03	1.04	0.9%	
SS PCB-178	34.63	2.80E+07	1.06 Y	0.62	0.62	-0.6%	
CS PCB-28	20.13	6.00E+07	1.09 Y	1.59	1.55	-1.9%	
CS PCB-111	29.72	3.73E+07	1.58 Y	1.20	1.20	0.2%	
CS PCB-178	34.63	2.80E+07	1.06 Y	0.94	0.94	0.1%	
JS PCB-9	14.13	7.28E+07	1.62 Y	-	-	-	
JS PCB-52	21.68	3.86E+07	0.78 Y	-	-	-	
JS PCB-101	27.47	3.11E+07	1.61 Y	-	-	-	
JS PCB-138	34.25	2.97E+07	1.28 Y	-	-	-	
JS PCB-194	44.33	2.13E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	10.21	9.19E+05	3.10 Y	1.21	1.19	-2.4%	
PCB-3 4-MoCB	12.18	8.74E+05	3.19 Y	1.30	1.25	-3.9%	
PCB-4 22'-DiCB	12.39	4.43E+05	0.00 S	0.98	0.91	-7.3%	
PCB-15 44'-DiCB	17.55	8.93E+05	0.00 S	1.19	1.16	-1.9%	
PCB-19 22'6'-TrCB	15.13	3.92E+05	0.98 Y	1.05	0.98	-6.8%	
PCB-37 344'-TrCB	23.55	6.68E+05	1.05 Y	1.32	1.26	-5.3%	
PCB-54 22'66'-TeCB	17.80	5.21E+05	0.82 Y	1.02	0.95	-7.0%	
PCB-104 22'466'-PeCB	22.49	4.79E+05	0.67 Y	1.02	0.97	-4.9%	
PCB-155 22'44'66'-HxCB	27.29	5.27E+05	1.29 Y	1.11	1.09	-1.2%	
PCB-188 22'34'566'-HpCB	32.09	4.63E+05	1.04 Y	1.10	1.02	-7.4%	
PCB-202 22'33'55'66'-OcCB	36.59	3.45E+05	0.88 Y	0.83	0.83	0.5%	
PCB-205 233'44'55'6'-OcCB	44.74	2.76E+05	1.00 Y	1.11	1.04	-6.7%	
PCB-208 22'33'455'66'-NoCB	42.18	3.01E+05	0.88 Y	1.01	1.02	0.8%	
PCB-206 22'33'44'55'6'-NoCB	46.21	2.01E+05	0.81 Y	1.01	0.95	-6.0%	

PCB QC Summary - Ax2 Detail					Printed: 10-Feb-2014 14:47		
Lab ID:	CS1_140205_PCB_SA			ICAL: MM4_PCB_10292013_05FEB2014			
Acquired:	05-FEB-2014 11:24						
Datafile:	140205S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	10.21	9.19E+05	3.10 Y	1.21	1.19	-2.4%	
PCB-2 3-MoCB	12.02	8.63E+05	3.23 Y	1.29	1.23	-4.4%	
PCB-3 4-MoCB	12.18	8.74E+05	3.19 Y	1.30	1.25	-3.9%	
PCB-4 22'-DiCB	12.39	4.43E+05	0.00 S	0.98	0.91	-7.3%	
PCB-10 26'-DiCB	12.55	6.86E+05	0.00 S	1.53	1.41	-8.1%	
PCB-9 25'-DiCB	14.14	7.64E+05	0.00 S	1.04	1.00	-3.8%	
PCB-7 24'-DiCB	14.29	8.59E+05	0.00 S	1.18	1.12	-5.3%	
PCB-6 23'-DiCB	14.50	8.20E+05	0.00 S	1.11	1.07	-3.6%	
PCB-5 23'-DiCB	14.77	8.28E+05	0.00 S	1.10	1.08	-2.1%	
PCB-8 24'-DiCB	14.87	8.67E+05	0.00 S	1.13	1.13	-0.1%	
PCB-14 35'-DiCB	16.30	9.20E+05	0.00 S	1.28	1.20	-6.5%	
PCB-11 33'-DiCB	17.02	7.88E+05	0.00 S	1.10	1.03	-6.8%	
PCB-13/12 34'/34'-DiCB	17.29	1.59E+06	0.00 S	1.11	1.04	-6.9%	
PCB-15 44'-DiCB	17.55	8.93E+05	0.00 S	1.19	1.16	-1.9%	
PCB-19 22'6'-TrCB	15.13	3.92E+05	0.98 Y	1.05	0.98	-6.8%	
PCB-30/18 246/22'5'-TrCB	16.74	9.73E+05	1.01 Y	1.33	1.22	-8.5%	
PCB-17 22'4'-TrCB	17.11	4.66E+05	0.98 Y	1.15	1.16	0.8%	
PCB-27 23'6'-TrCB	17.29	5.68E+05	1.01 Y	1.56	1.42	-9.1%	
PCB-24 236'-TrCB	17.41	5.73E+05	1.10 Y	1.50	1.43	-4.2%	
PCB-16 22'3'-TrCB	17.50	3.11E+05	1.16 Y	0.88	0.78	-11.4%	
PCB-32 24'6'-TrCB	17.95	6.59E+05	0.97 Y	1.74	1.65	-5.2%	
PCB-34 23'5'-TrCB	19.03	7.03E+05	1.07 Y	1.33	1.32	-0.8%	
PCB-23 235'-TrCB	19.16	7.20E+05	1.08 Y	1.40	1.35	-3.1%	
PCB-26/29 23'5'/245'-TrCB	19.44	1.46E+06	1.08 Y	1.41	1.37	-2.8%	
PCB-25 23'4'-TrCB	19.63	7.18E+05	1.07 Y	1.41	1.35	-4.3%	
PCB-31 24'5'-TrCB	19.89	7.54E+05	1.05 Y	1.46	1.42	-3.1%	
PCB-28/20 244'/233'-TrCB	20.16	1.44E+06	1.12 Y	1.39	1.35	-3.0%	
PCB-21/33 234'/23'4'-TrCB	20.32	1.43E+06	1.09 Y	1.42	1.34	-5.4%	
PCB-22 234'-TrCB	20.68	6.67E+05	1.12 Y	1.29	1.25	-2.9%	
PCB-36 33'5'-TrCB	22.01	7.32E+05	1.13 Y	1.42	1.38	-2.9%	
PCB-39 34'5'-TrCB	22.33	7.53E+05	1.04 Y	1.45	1.41	-2.7%	
PCB-38 345'-TrCB	22.82	6.72E+05	1.09 Y	1.30	1.26	-3.2%	
PCB-35 33'4'-TrCB	23.21	6.43E+05	1.19 Y	1.25	1.21	-3.0%	
PCB-37 344'-TrCB	23.55	6.68E+05	1.05 Y	1.32	1.26	-5.3%	
PCB-54 22'66'-TeCB	17.80	5.21E+05	0.82 Y	1.02	0.95	-7.0%	
PCB-50/53 22'46'/22'56'-TeCB	19.66	7.54E+05	0.76 Y	0.85	0.81	-4.4%	
PCB-45 22'36'-TeCB	20.22	3.02E+05	0.79 Y	0.71	0.65	-9.0%	
PCB-51 22'46'-TeCB	20.28	4.03E+05	0.79 Y	0.88	0.87	-1.4%	
PCB-46 22'36'-TeCB	20.49	2.98E+05	0.88 Y	0.68	0.64	-5.5%	
PCB-52 22'55'-TeCB	21.70	3.69E+05	0.77 Y	0.80	0.79	-1.4%	
PCB-73 23'5'6'-TeCB	21.82	4.63E+05	0.75 Y	1.07	1.00	-6.5%	
PCB-43 22'35'-TeCB	21.90	3.33E+05	0.70 Y	0.68	0.72	5.2%	
PCB-69/49 23'46'/22'45'-TeCB	22.09	8.57E+05	0.79 Y	0.97	0.92	-5.2%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:47			
Lab ID:	CS1_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 11:24						
Datafile:	140205S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.35	3.50E+05	0.78 Y	0.80	0.75	-6.2%	
PCB-44/47/65 ...-TeCB	22.56	1.19E+06	0.82 Y	0.87	0.85	-2.3%	
PCB-59/62/75 ...-TeCB	22.82	1.47E+06	0.81 Y	1.11	1.06	-5.1%	
PCB-42 22'34'-TeCB	22.99	3.21E+05	0.74 Y	0.73	0.69	-5.3%	
PCB-41 22'34'-TeCB	23.30	3.00E+05	0.76 Y	0.66	0.65	-1.6%	
PCB-71/40 23'4'6/22'33'-TeCB	23.40	7.21E+05	0.78 Y	0.82	0.78	-5.9%	
PCB-64 23'4'6'-TeCB	23.59	5.20E+05	0.83 Y	1.20	1.12	-6.4%	
PCB-72 23'55'-TeCB	24.31	6.20E+05	0.76 Y	1.39	1.34	-3.6%	
PCB-68 23'45'-TeCB	24.55	6.62E+05	0.79 Y	1.49	1.43	-4.2%	
PCB-57 23'3'5'-TeCB	24.90	5.86E+05	0.74 Y	1.33	1.26	-5.1%	
PCB-58 23'3'5'-TeCB	25.10	6.07E+05	0.82 Y	1.38	1.31	-5.5%	
PCB-67 23'45'-TeCB	25.25	6.64E+05	0.82 Y	1.47	1.43	-2.9%	
PCB-63 23'4'5'-TeCB	25.47	6.70E+05	0.77 Y	1.50	1.44	-4.1%	
PCB-61/70/74/76 ...-TeCB	25.75	2.42E+06	0.78 Y	1.38	1.30	-6.1%	
PCB-66 23'44'-TeCB	26.03	5.34E+05	0.80 Y	1.28	1.15	-10.1%	
PCB-55 23'3'4'-TeCB	26.16	5.76E+05	0.80 Y	1.33	1.24	-6.6%	
PCB-56 23'3'4'-TeCB	26.59	5.48E+05	0.80 Y	1.25	1.18	-5.6%	
PCB-60 23'44'-TeCB	26.78	5.92E+05	0.80 Y	1.34	1.27	-5.2%	
PCB-80 33'55'-TeCB	27.12	6.78E+05	0.83 Y	1.51	1.46	-3.2%	
PCB-79 33'45'-TeCB	28.41	6.87E+05	0.89 Y	1.55	1.48	-4.3%	
PCB-78 33'45'-TeCB	28.87	5.64E+05	0.86 Y	1.25	1.21	-2.7%	
PCB-104 22'466'-PeCB	22.49	4.79E+05	0.67 Y	1.02	0.97	-4.9%	
PCB-96 22'366'-PeCB	22.81	4.23E+05	0.66 Y	0.90	0.86	-5.0%	
PCB-103 22'45'6'-PeCB	24.45	3.21E+05	0.64 Y	0.92	0.89	-2.4%	
PCB-94 22'356'-PeCB	24.64	2.76E+05	0.59 Y	0.79	0.77	-3.4%	
PCB-95 22'35'6'-PeCB	25.01	2.99E+05	0.59 Y	0.85	0.83	-1.8%	
PCB-100/93 22'44'6/22'356'-PeCB	25.20	6.05E+05	0.59 Y	0.88	0.84	-4.4%	
PCB-102 22'456'-PeCB	25.31	3.36E+05	0.65 Y	0.95	0.93	-1.8%	
PCB-98 22'34'6'-PeCB	25.38	2.50E+05	0.62 Y	0.76	0.69	-8.9%	
PCB-88 22'346'-PeCB	25.66	2.69E+05	0.59 Y	0.80	0.75	-6.2%	
PCB-91 22'34'6'-PeCB	25.74	2.91E+05	0.59 Y	0.90	0.81	-10.2%	
PCB-84 22'33'6'-PeCB	25.92	2.34E+05	0.57 Y	0.71	0.65	-8.0%	
PCB-89 22'346'-PeCB	26.32	2.68E+05	0.57 Y	0.76	0.74	-1.4%	
PCB-121 23'45'6'-PeCB	26.68	3.87E+05	0.66 Y	1.15	1.08	-6.2%	
PCB-92 22'355'-PeCB	27.00	2.74E+05	0.70 Y	0.80	0.76	-5.0%	
PCB-113/90/101 ...-PeCB	27.47	9.47E+05	0.63 Y	0.94	0.88	-6.5%	
PCB-83 22'33'5'-PeCB	27.89	2.41E+05	0.56 Y	0.68	0.67	-2.1%	
PCB-99 22'44'5'-PeCB	27.98	2.97E+05	0.63 Y	0.88	0.82	-6.3%	
PCB-112 23'3'56'-PeCB	28.08	3.70E+05	0.62 Y	1.08	1.03	-5.1%	
PCB-109/119/86/97/125...-PeCB	28.41	1.96E+06	0.63 Y	0.96	0.91	-5.0%	
PCB-117 23'4'56'-PeCB	28.93	3.60E+05	0.63 Y	1.00	1.00	-0.4%	
PCB-116/85 23'456/22'344'-PeCB	29.01	6.23E+05	0.56 Y	0.95	0.87	-8.4%	
PCB-110 23'3'4'6'-PeCB	29.15	3.66E+05	0.59 Y	1.06	1.02	-3.6%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:47			
Lab ID:	CS1_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 11:24						
Datafile:	140205S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	29.21	3.79E+05	0.65 Y	1.09	1.05	-3.3%	
PCB-82 22'33'4-PeCB	29.42	2.25E+05	0.64 Y	0.67	0.63	-5.9%	
PCB-111 233'55'-PeCB	29.75	4.03E+05	0.58 Y	1.15	1.12	-2.5%	
PCB-120 23'455'-PeCB	30.13	4.04E+05	0.64 Y	1.13	1.12	-0.3%	
PCB-108/124 ...-PeCB	31.08	6.94E+05	0.61 Y	1.03	0.96	-6.0%	
PCB-107 233'4'5-PeCB	31.29	3.65E+05	0.66 Y	1.11	1.02	-8.5%	
PCB-106 233'45-PeCB	31.48	3.54E+05	0.57 Y	1.02	0.99	-3.7%	
PCB-122 233'4'5'-PeCB	31.95	3.30E+05	0.57 Y	0.92	0.88	-4.7%	
PCB-127 33'455'-PeCB	33.89	3.42E+05	0.65 Y	0.96	0.87	-8.5%	
PCB-155 22'44'66'-HxCB	27.29	5.27E+05	1.29 Y	1.11	1.09	-1.2%	
PCB-152 22'3566'-HxCB	27.46	4.63E+05	1.15 Y	1.03	0.96	-6.8%	
PCB-150 22'34'66'-HxCB	27.60	4.60E+05	1.27 Y	1.00	0.95	-5.2%	
PCB-136 22'33'66'-HxCB	27.90	4.58E+05	1.25 Y	0.96	0.95	-1.3%	
PCB-145 22'3466'-HxCB	28.15	4.51E+05	1.27 Y	0.97	0.93	-3.5%	
PCB-148 22'34'56'-HxCB	29.42	3.47E+05	1.18 Y	1.07	1.07	-0.1%	
PCB-151/135 ...-HxCB	29.94	6.74E+05	1.19 Y	1.02	1.04	2.3%	
PCB-154 22'44'56'-HxCB	30.13	3.80E+05	1.19 Y	1.16	1.17	0.8%	
PCB-144 22'345'6-HxCB	30.39	3.38E+05	1.34 Y	1.02	1.04	2.4%	
PCB-147/149 ...-HxCB	30.69	6.43E+05	1.16 Y	1.03	0.99	-3.9%	
PCB-134 22'33'56-HxCB	30.86	2.86E+05	1.30 Y	0.82	0.88	7.3%	
PCB-143 22'3456'-HxCB	30.94	3.02E+05	1.17 Y	0.98	0.93	-4.9%	
PCB-139/140 ...-HxCB	31.19	6.58E+05	1.21 Y	1.07	1.02	-4.8%	
PCB-131 22'33'46-HxCB	31.36	2.94E+05	1.18 Y	0.92	0.91	-1.1%	
PCB-142 22'3456-HxCB	31.49	2.87E+05	1.21 Y	0.91	0.89	-1.9%	
PCB-132 22'33'46'-HxCB	31.75	3.05E+05	1.42 Y	0.93	0.94	1.3%	
PCB-133 22'33'55'-HxCB	32.17	2.99E+05	1.18 Y	0.96	0.92	-4.0%	
PCB-165 233'55'6-HxCB	32.50	3.72E+05	1.26 Y	1.18	1.15	-2.3%	
PCB-146 22'34'55'-HxCB	32.71	3.64E+05	1.19 Y	1.10	1.13	2.7%	
PCB-161 233'45'6-HxCB	32.82	4.24E+05	1.23 Y	1.35	1.31	-3.1%	
PCB-153/168 ...-HxCB	33.24	8.26E+05	1.25 Y	1.29	1.28	-0.9%	
PCB-141 22'3455'-HxCB	33.39	3.09E+05	1.33 Y	0.96	0.96	-0.6%	
PCB-130 22'33'45'-HxCB	33.73	2.84E+05	1.26 Y	0.85	0.88	2.8%	
PCB-137 22'344'5-HxCB	33.92	3.42E+05	1.43 Y	1.05	1.06	0.6%	
PCB-164 233'4'5'6-HxCB	34.01	3.85E+05	1.12 Y	1.26	1.19	-5.9%	
PCB-163/138/129 ...-HxCB	34.29	1.02E+06	1.20 Y	1.06	1.05	-0.4%	
PCB-160 233'456-HxCB	34.41	3.74E+05	1.20 Y	1.24	1.16	-6.9%	
PCB-158 233'44'6-HxCB	34.60	4.00E+05	1.29 Y	1.34	1.24	-7.9%	
PCB-128/166 ...-HxCB	35.32	5.95E+05	1.21 Y	0.93	0.85	-9.3%	
PCB-159 233'455'-HxCB	36.15	3.54E+05	1.32 Y	1.09	1.01	-7.7%	
PCB-162 233'4'55'-HxCB	36.39	3.65E+05	1.27 Y	1.08	1.04	-4.3%	
PCB-188 22'34'566'-HpCB	32.09	4.63E+05	1.04 Y	1.10	1.02	-7.4%	
PCB-179 22'33'566'-HpCB	32.38	4.70E+05	1.09 Y	1.01	1.03	2.0%	
PCB-184 22'344'66'-HpCB	32.81	4.46E+05	1.02 Y	1.02	0.98	-3.6%	

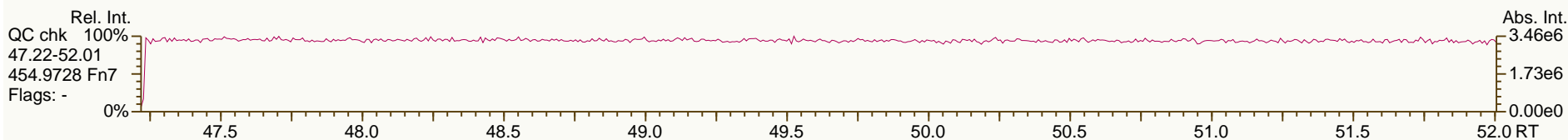
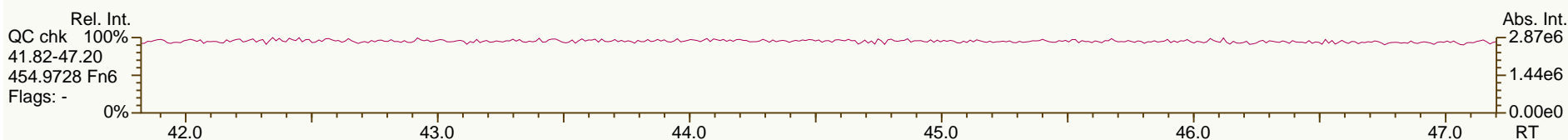
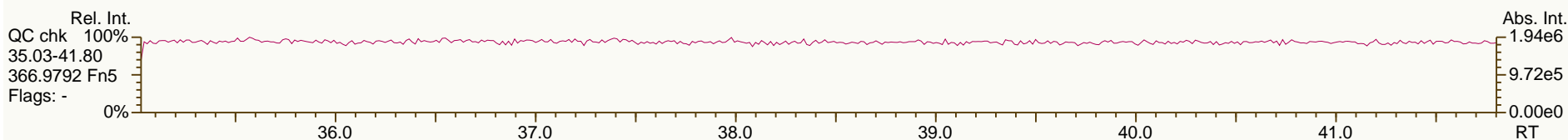
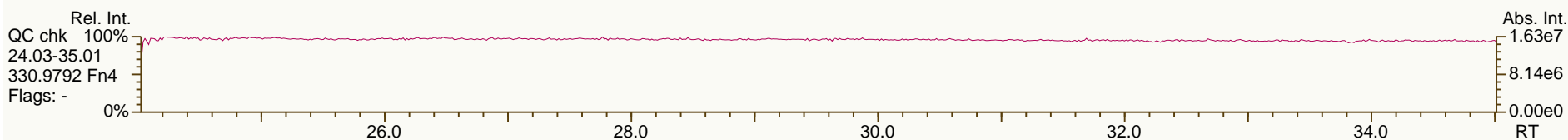
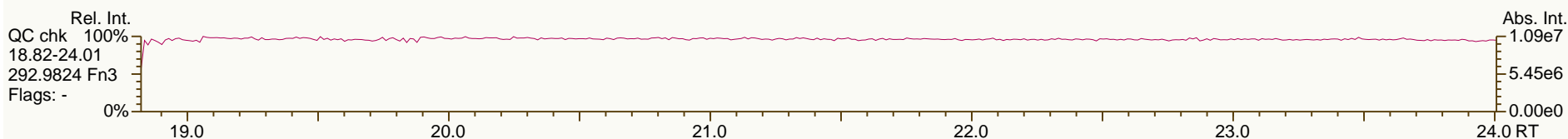
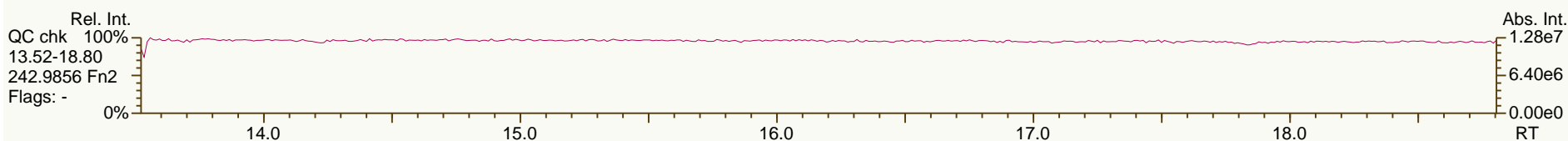
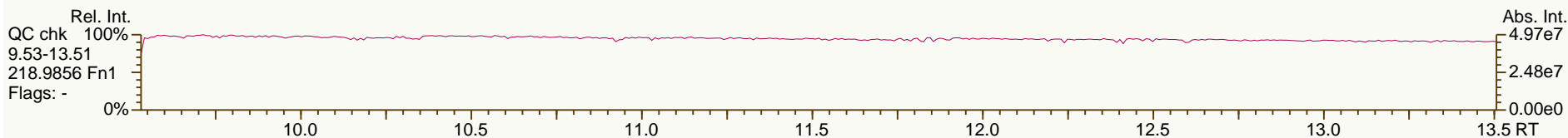
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Acquired:	05-FEB-2014 11:24						
Datafile:	140205S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	33.11	4.68E+05	1.02 Y	1.08	1.03	-5.1%	
PCB-186 22'34566'-HpCB	33.50	4.78E+05	0.99 Y	1.02	1.05	2.9%	
PCB-178 22'33'55'6'-HpCB	34.65	3.46E+05	1.14 Y	0.75	0.76	1.4%	
PCB-175 22'33'45'6'-HpCB	35.18	2.89E+05	1.12 Y	0.99	0.97	-2.1%	
PCB-187 22'34'55'6'-HpCB	35.40	3.08E+05	1.07 Y	1.05	1.03	-1.0%	
PCB-182 22'344'56'-HpCB	35.57	3.11E+05	1.01 Y	1.08	1.05	-3.1%	
PCB-183 22'344'5'6'-HpCB	35.92	3.08E+05	1.15 Y	1.07	1.04	-3.4%	
PCB-185 22'3455'6'-HpCB	36.00	2.61E+05	1.07 Y	0.97	0.88	-9.7%	
PCB-174 22'33'456'-HpCB	36.12	2.71E+05	1.15 Y	0.89	0.91	2.8%	
PCB-177 22'33'45'6'-HpCB	36.49	2.54E+05	0.92 Y	0.87	0.85	-2.1%	
PCB-181 22'344'56'-HpCB	36.82	2.73E+05	1.07 Y	0.98	0.92	-6.9%	
PCB-171/173 ...-HpCB	37.00	4.89E+05	1.01 Y	0.87	0.82	-5.9%	
PCB-172 22'33'455'-HpCB	38.37	2.55E+05	1.09 Y	0.88	0.86	-2.6%	
PCB-192 233'455'6'-HpCB	38.61	3.30E+05	1.08 Y	1.16	1.11	-4.3%	
PCB-180/193 ...-HpCB	38.89	6.15E+05	1.09 Y	1.08	1.03	-4.0%	
PCB-191 233'44'5'6'-HpCB	39.21	3.29E+05	1.16 Y	1.17	1.11	-5.8%	
PCB-170 22'33'44'5'-HpCB	39.97	2.30E+05	0.99 Y	1.03	0.91	-11.1%	
PCB-190 233'44'56'-HpCB	40.41	3.30E+05	1.06 Y	1.44	1.31	-9.4%	
PCB-202 22'33'55'66'-OcCB	36.59	3.45E+05	0.88 Y	0.83	0.83	0.5%	
PCB-201 22'33'45'66'-OcCB	37.36	3.57E+05	0.94 Y	0.88	0.86	-2.8%	
PCB-204 22'344'566'-OcCB	37.92	3.42E+05	0.97 Y	0.86	0.82	-4.3%	
PCB-197 22'33'44'66'-OcCB	38.11	3.56E+05	0.76 Y	0.93	0.86	-7.7%	
PCB-200 22'33'4566'-OcCB	38.21	3.32E+05	0.85 Y	0.86	0.80	-7.1%	
PCB-198/199 ...-OcCB	40.54	4.36E+05	0.99 Y	0.61	0.53	-13.5%	
PCB-196 22'33'44'56'-OcCB	41.11	2.47E+05	0.82 Y	0.62	0.60	-4.3%	
PCB-203 22'344'55'6'-OcCB	41.27	2.55E+05	0.84 Y	0.65	0.61	-6.1%	
PCB-195 22'33'44'56'-OcCB	42.38	2.05E+05	0.95 Y	0.81	0.77	-5.0%	
PCB-194 22'33'44'55'-OcCB	44.35	2.31E+05	0.95 Y	0.89	0.87	-2.1%	
PCB-205 233'44'55'6'-OcCB	44.74	2.76E+05	1.00 Y	1.11	1.04	-6.7%	
PCB-208 22'33'455'66'-NoCB	42.18	3.01E+05	0.88 Y	1.01	1.02	0.8%	
PCB-207 22'33'44'566'-NoCB	42.96	3.20E+05	0.80 Y	1.06	1.09	2.6%	
PCB-206 22'33'44'55'6'-NoCB	46.21	2.01E+05	0.81 Y	1.01	0.95	-6.0%	



SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

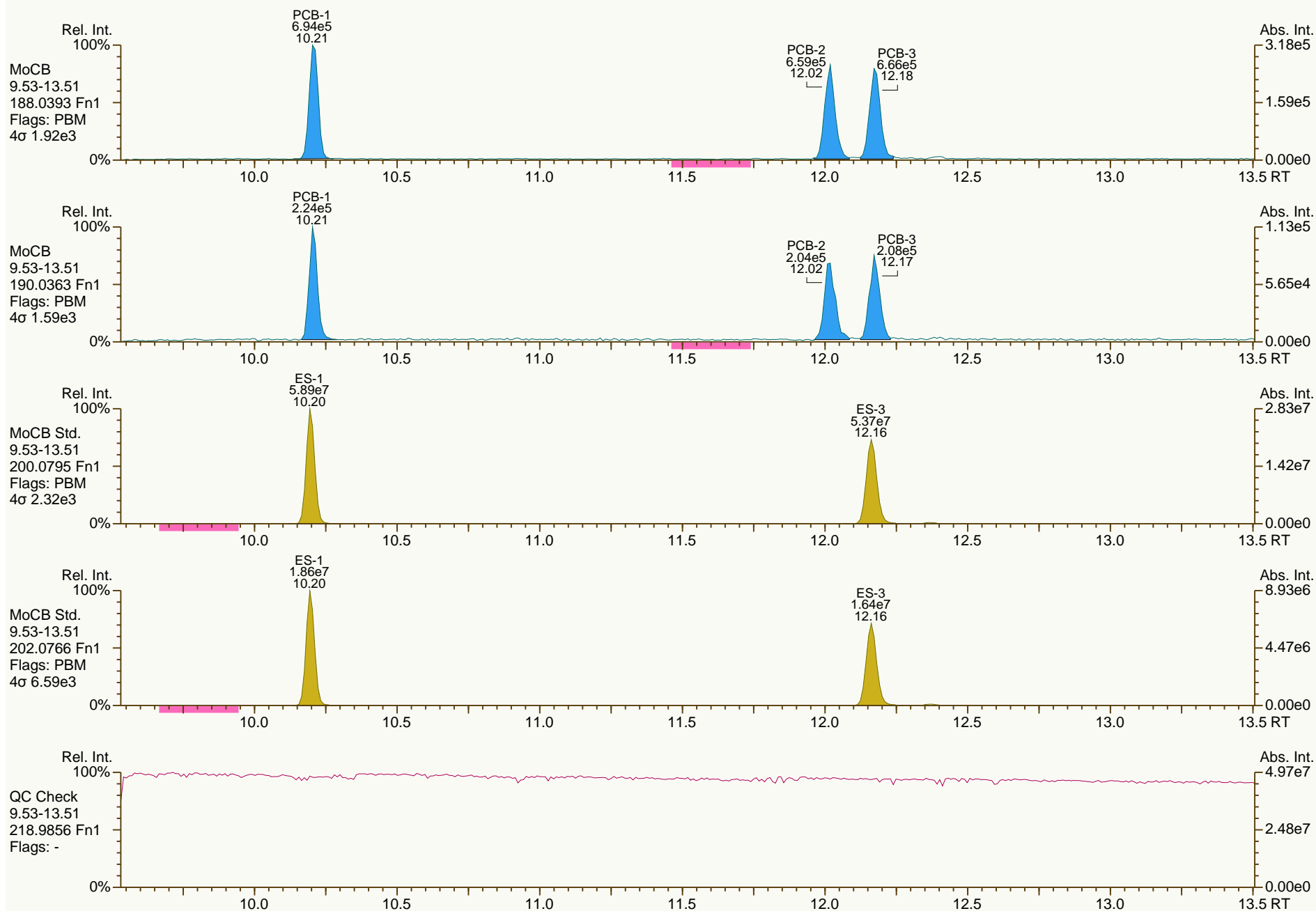
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

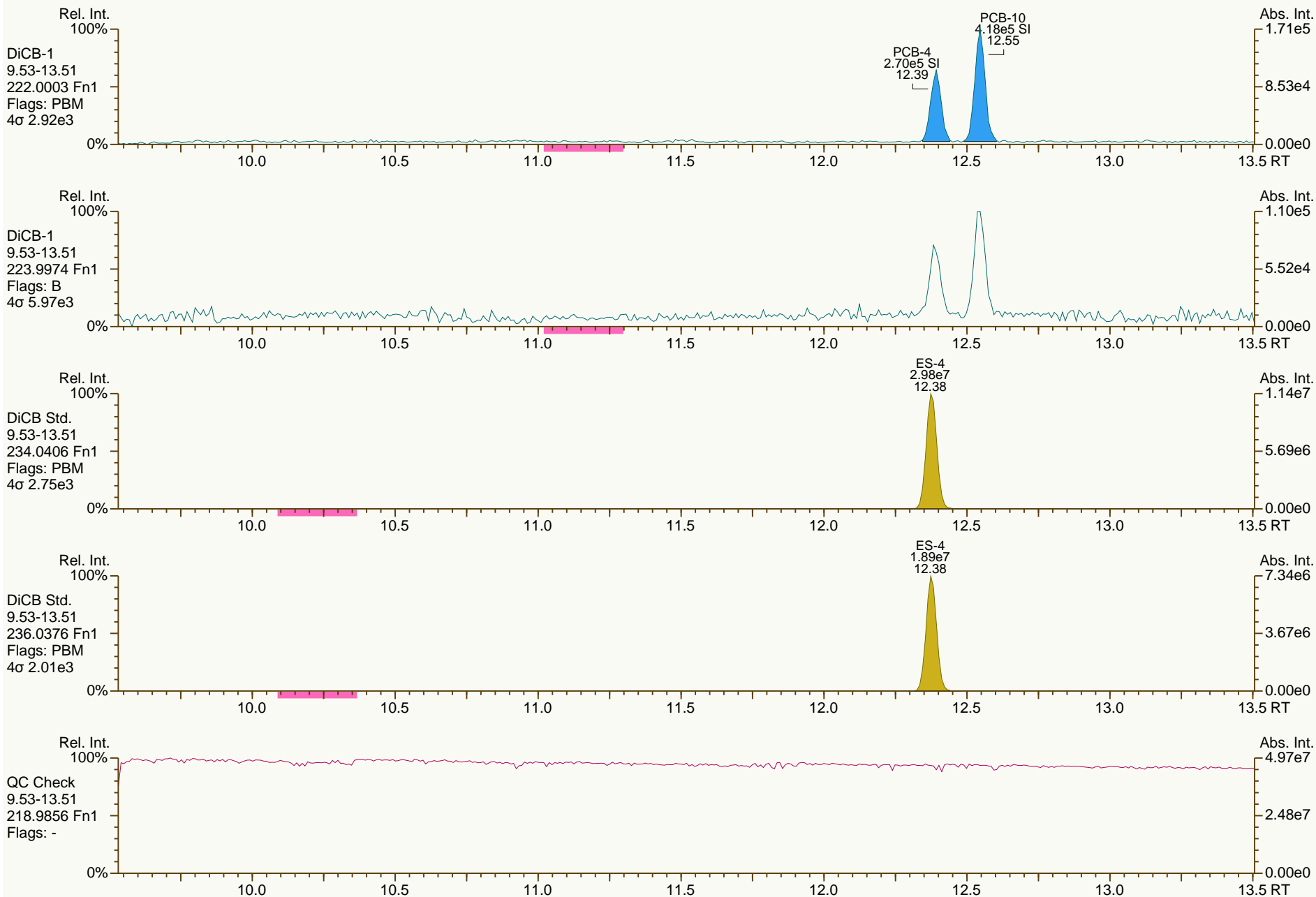
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

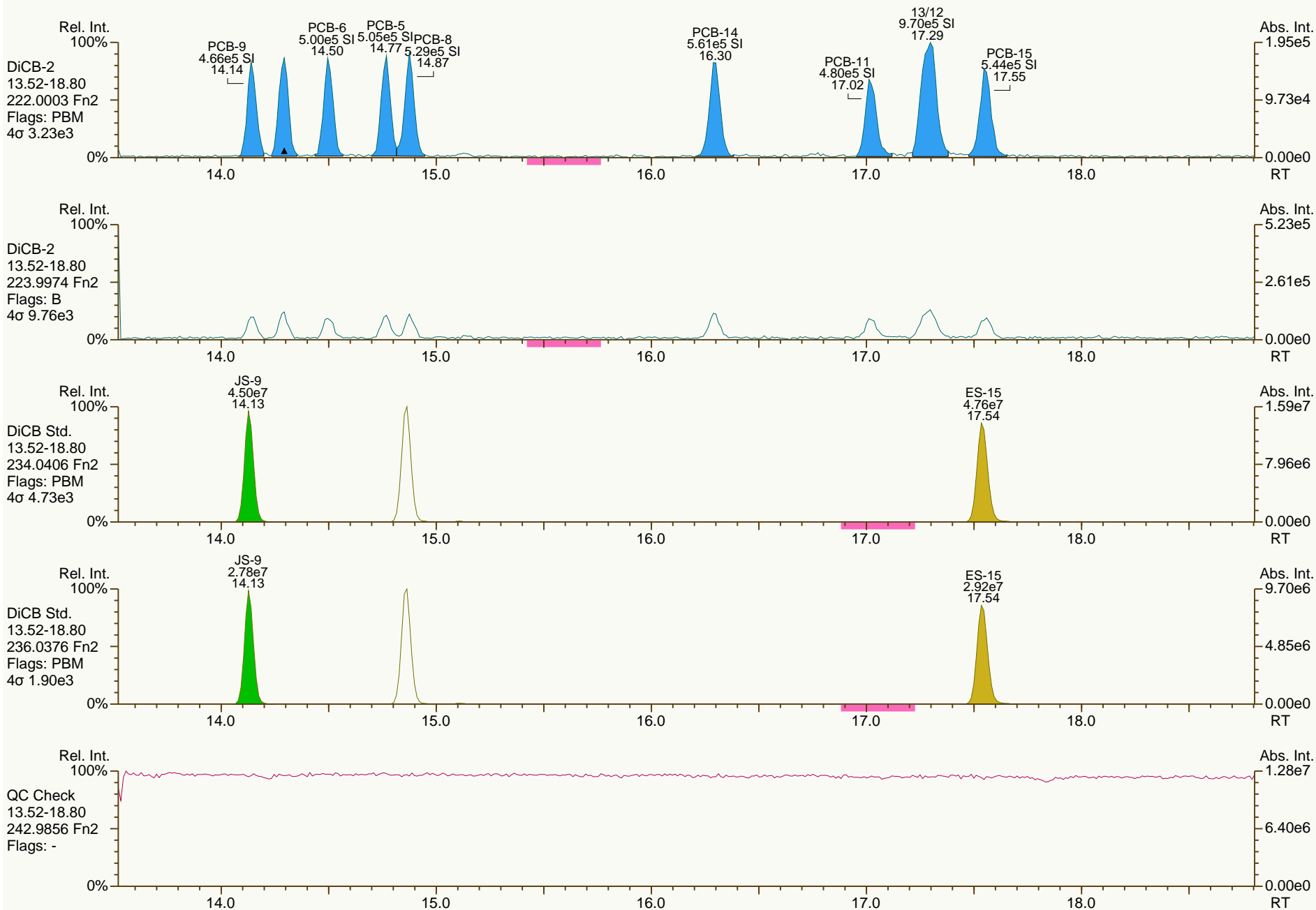
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

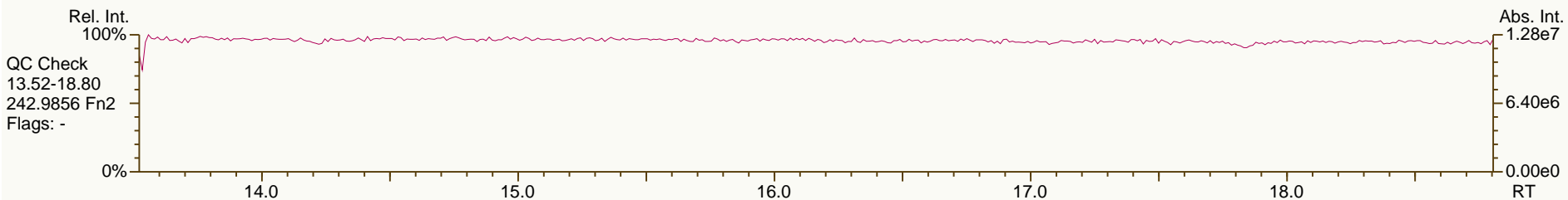
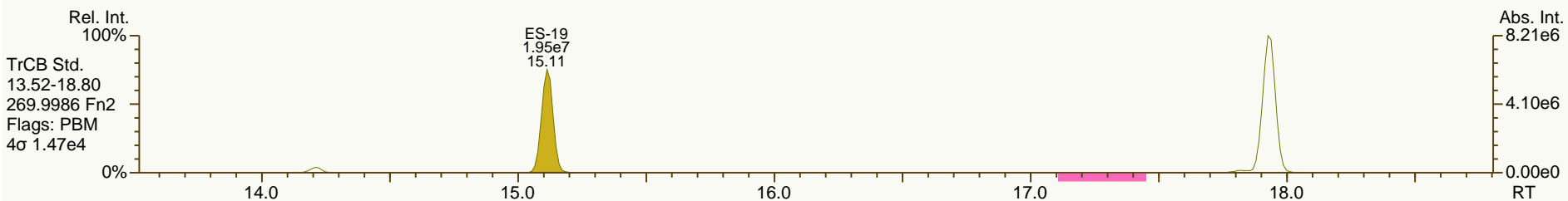
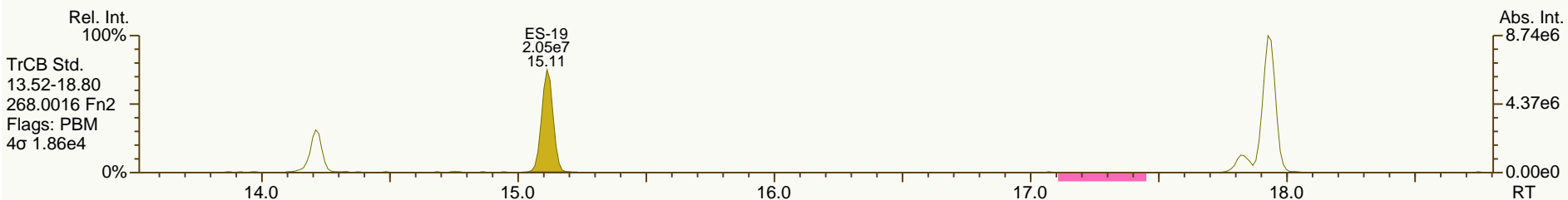
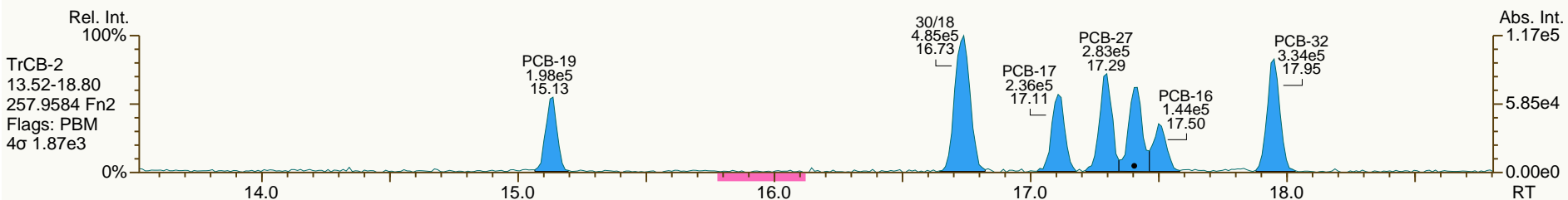
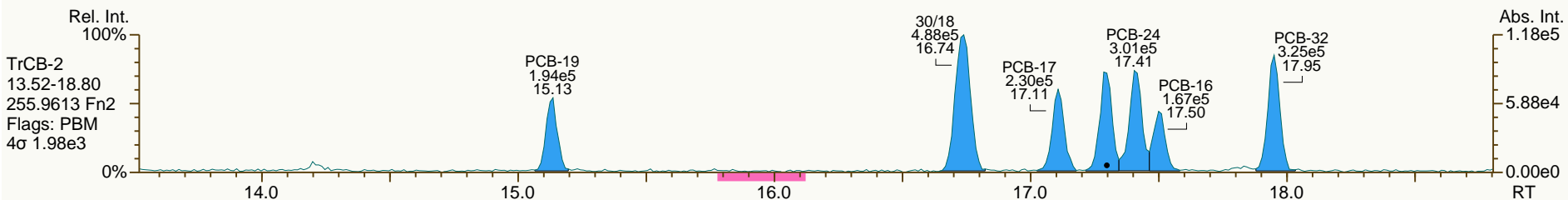
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

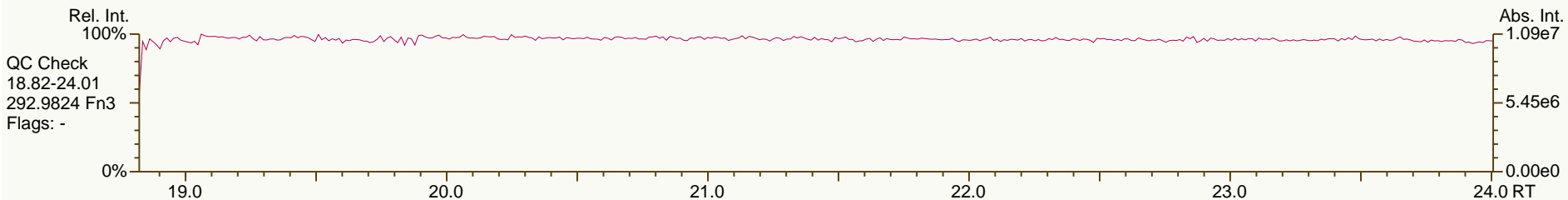
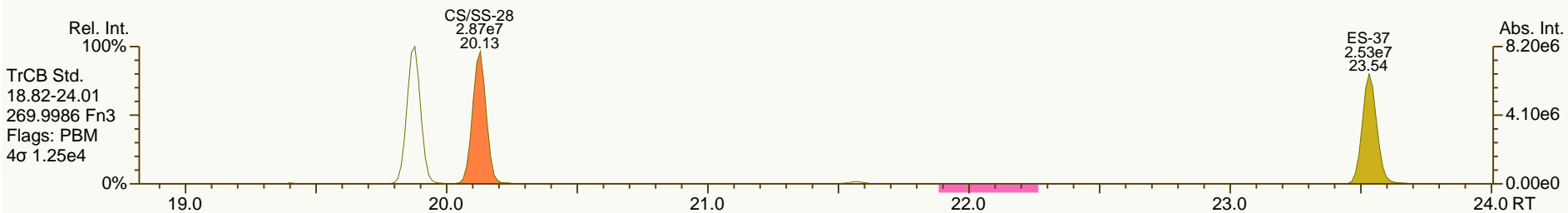
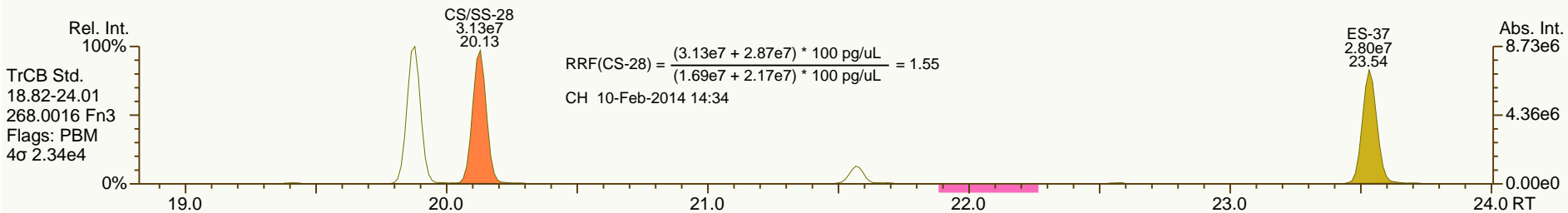
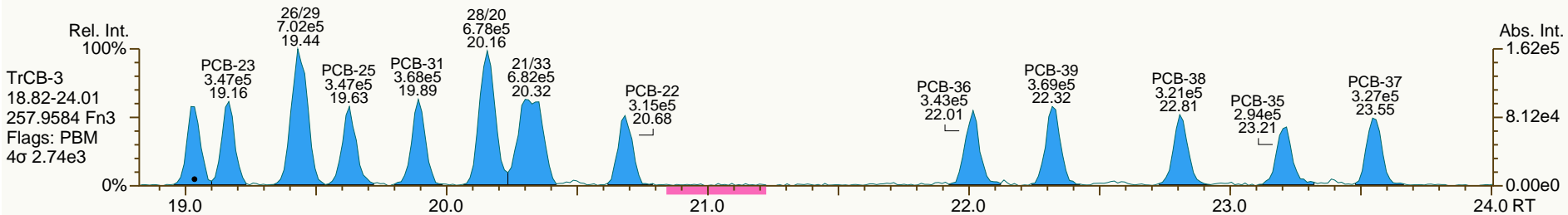
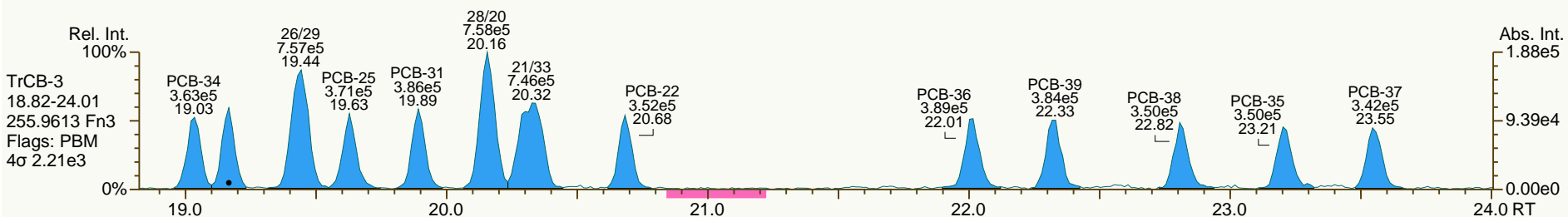
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User: CTW Datafile: 140205S03



SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

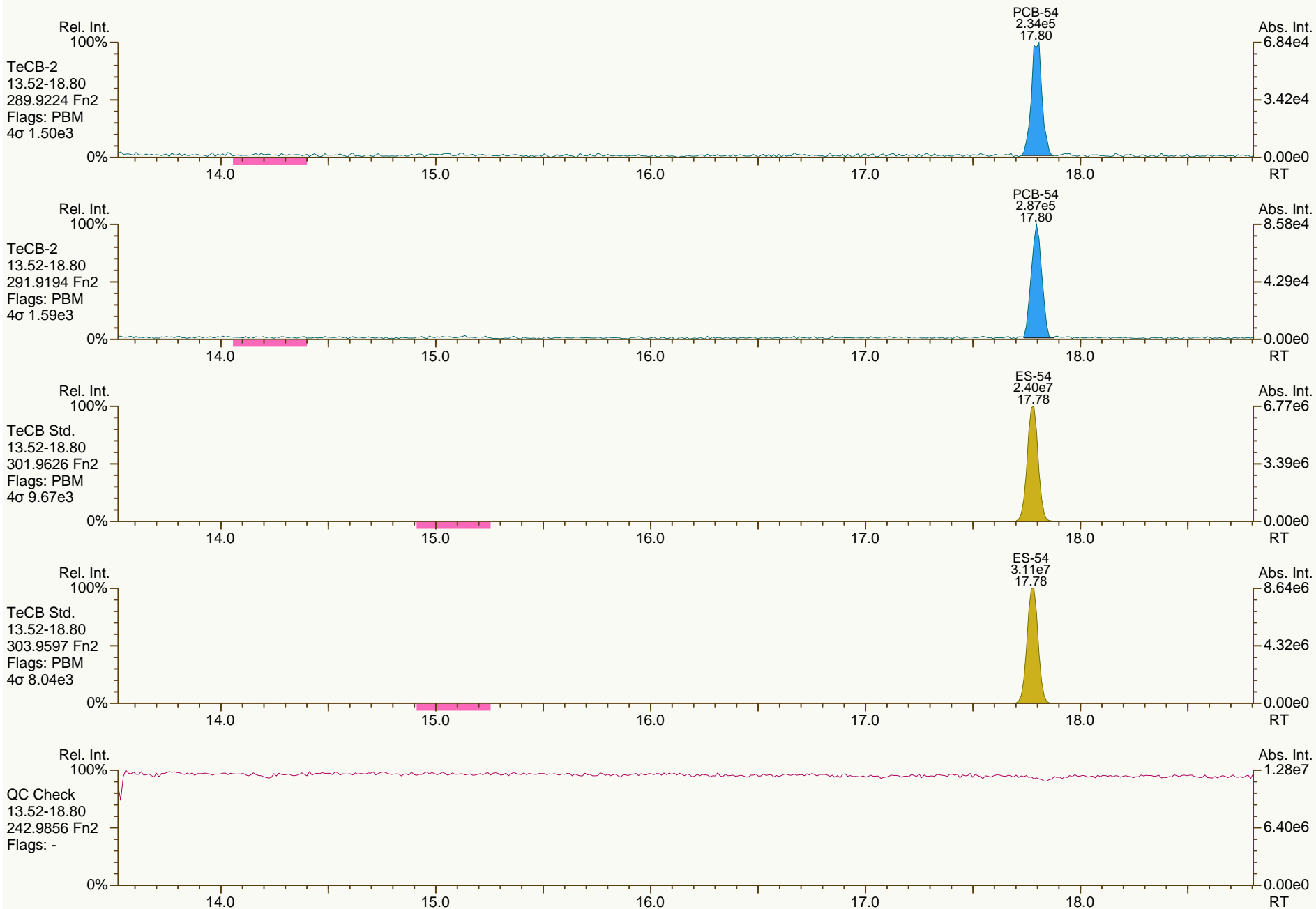
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

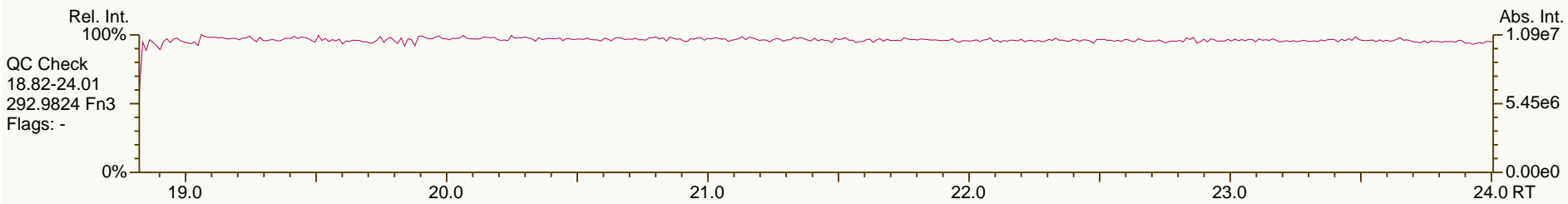
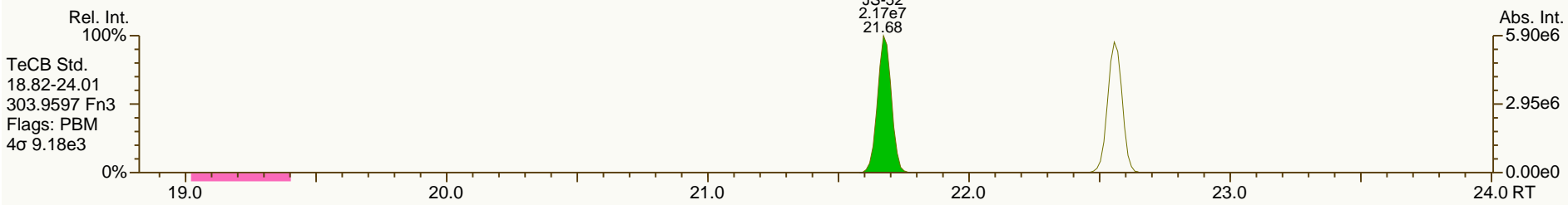
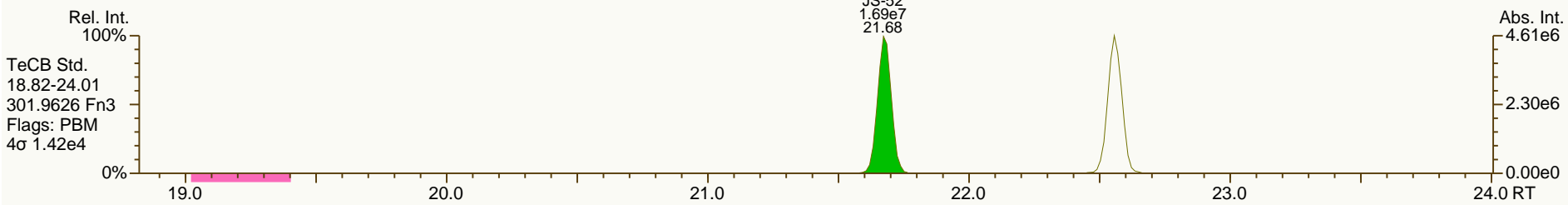
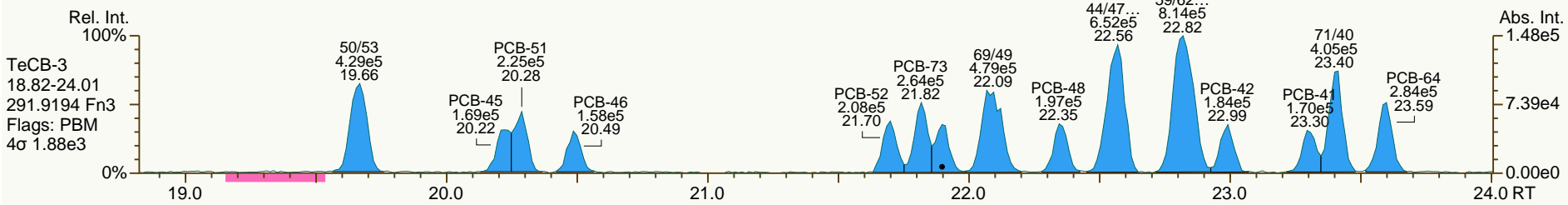
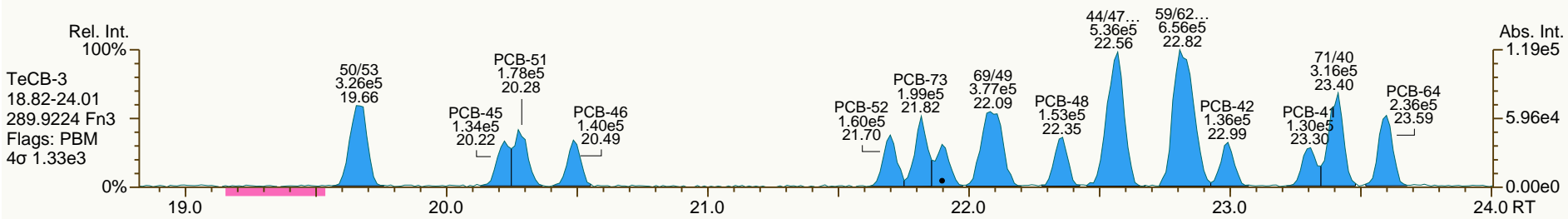
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SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

Acq: 05-Feb-2014 11:24:43  
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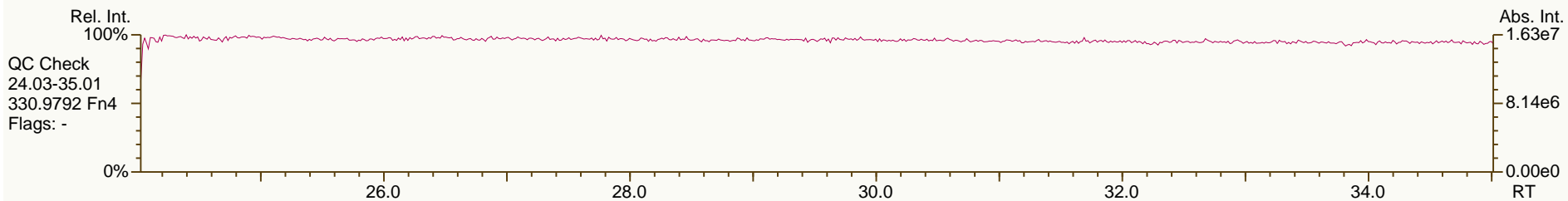
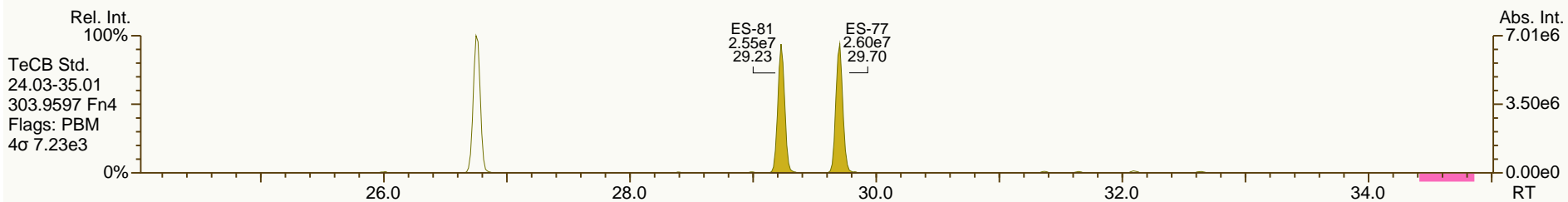
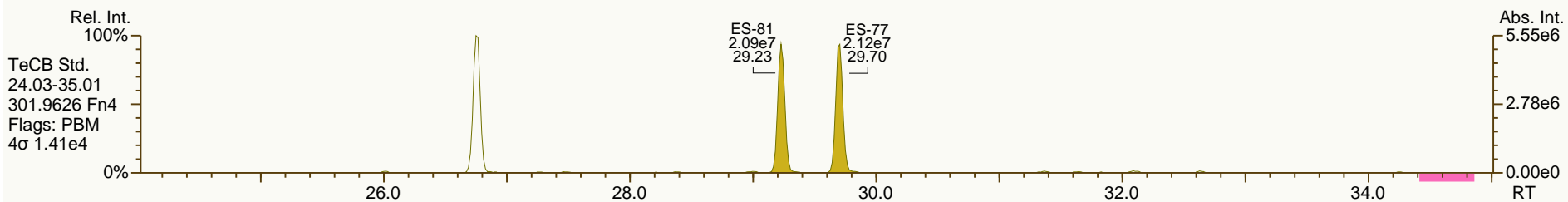
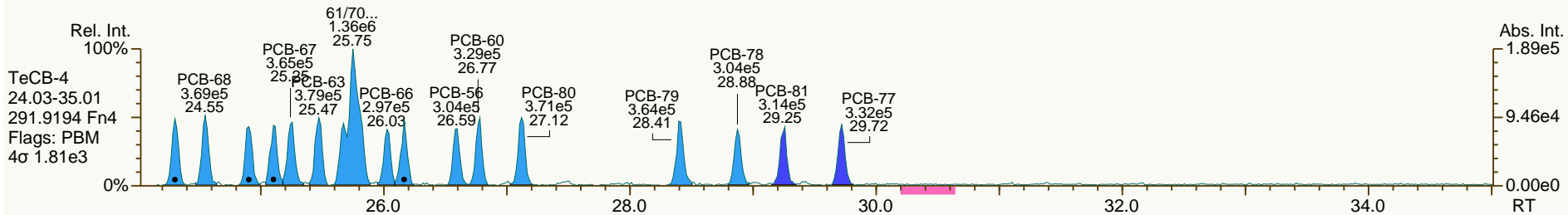
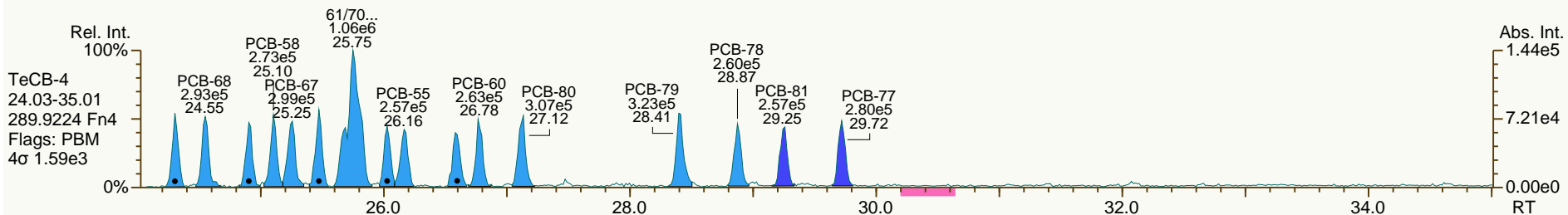




SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

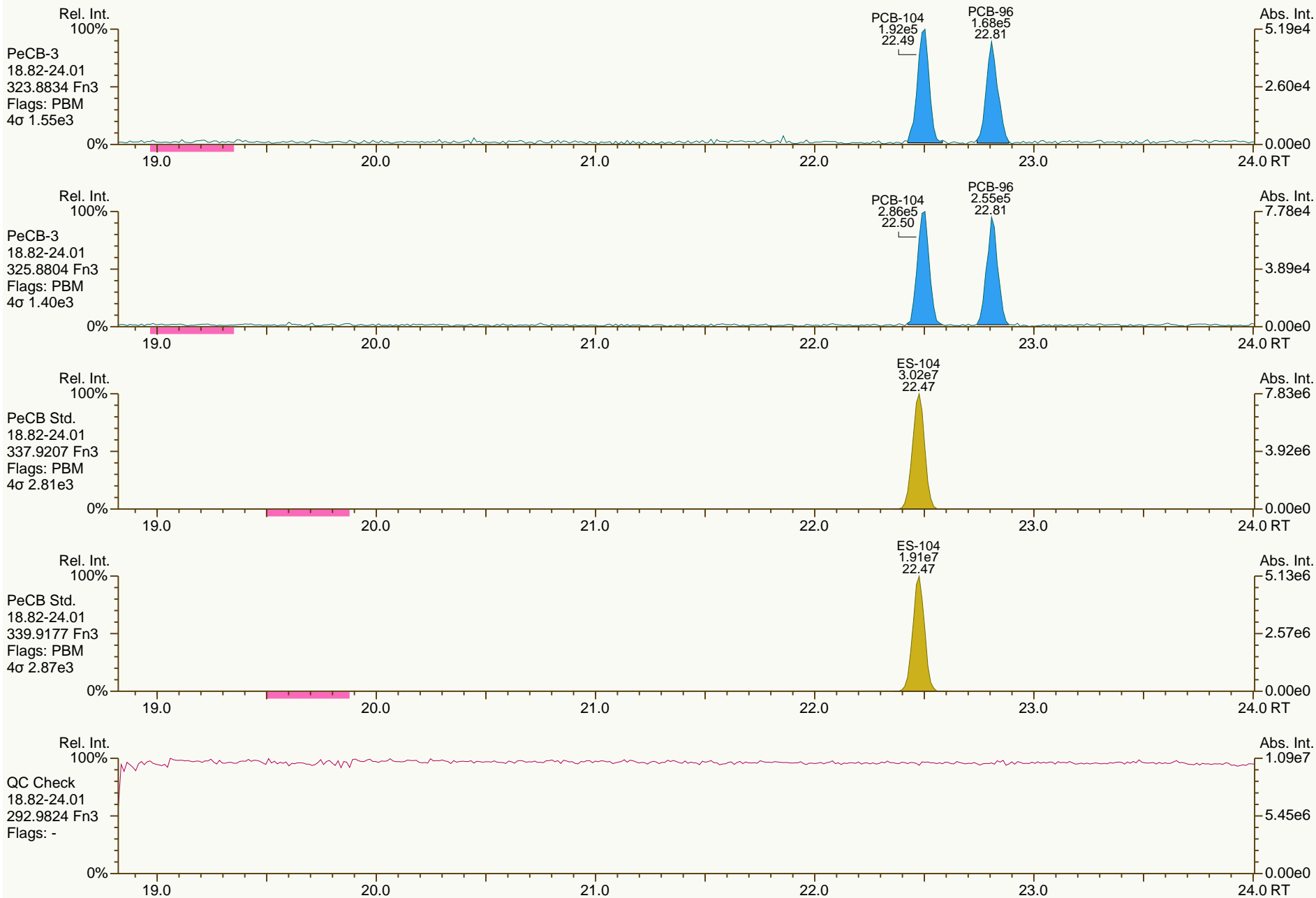
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

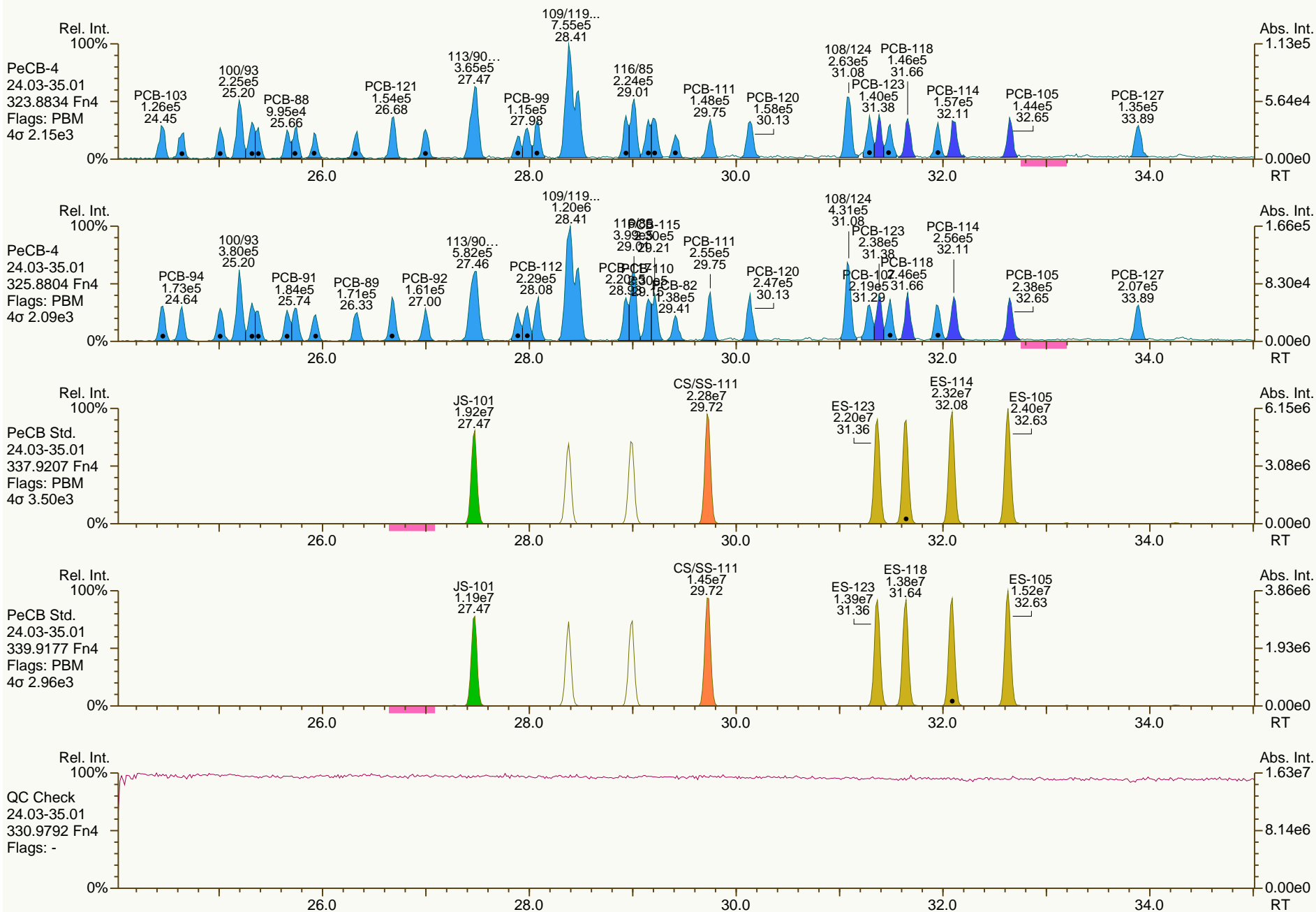
Acq: 05-Feb-2014 11:24:43  
User: CTW Datafile: 140205S03



SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

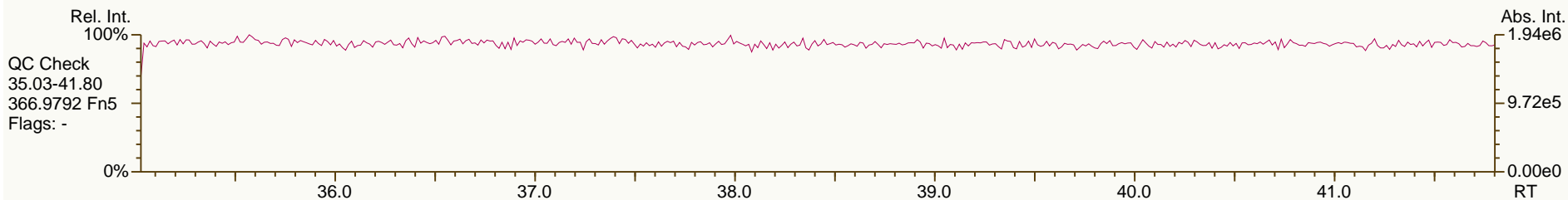
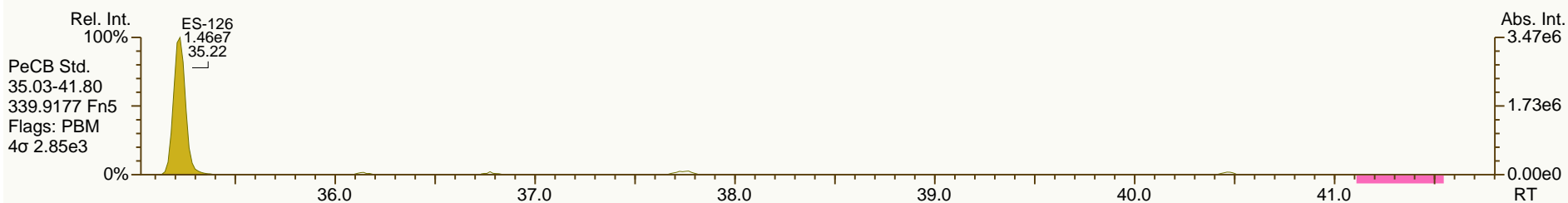
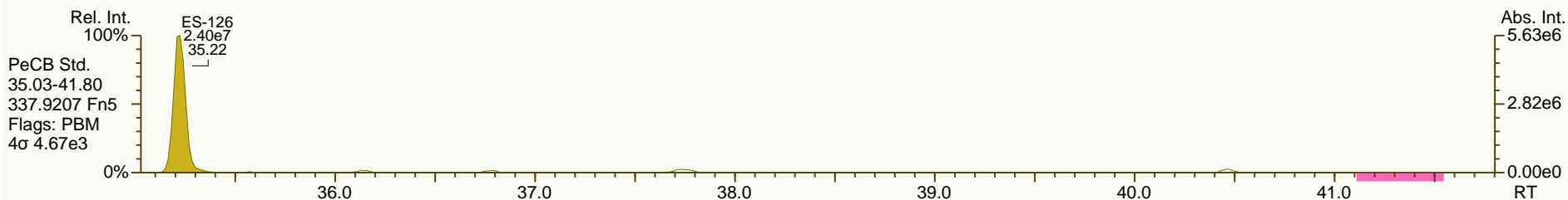
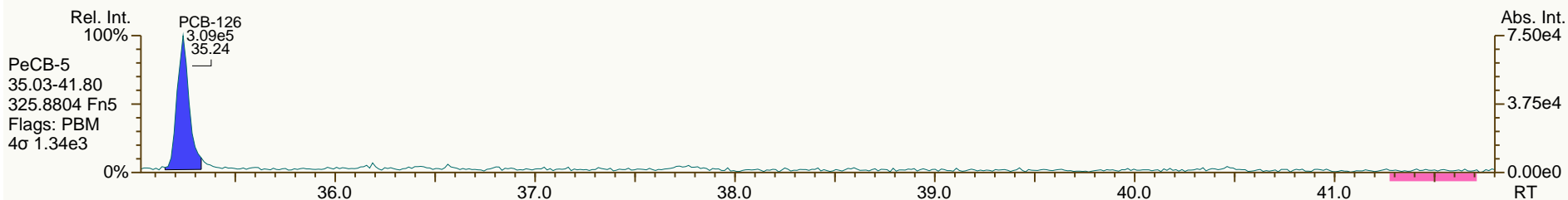
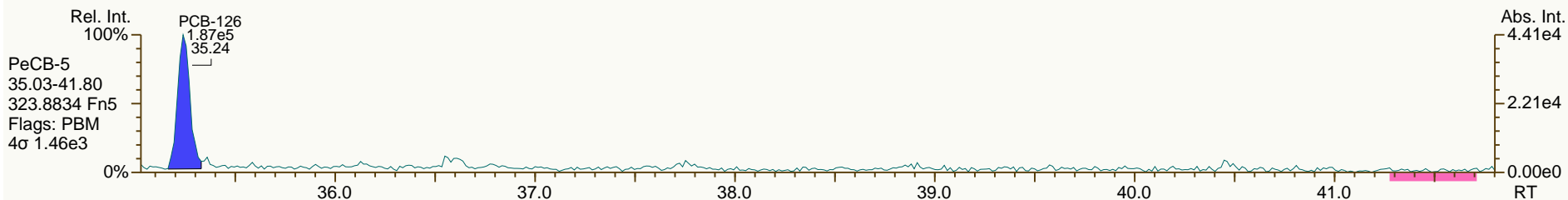
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

Acq: 05-Feb-2014 11:24:43  
User: CTW Datafile: 140205S03



SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

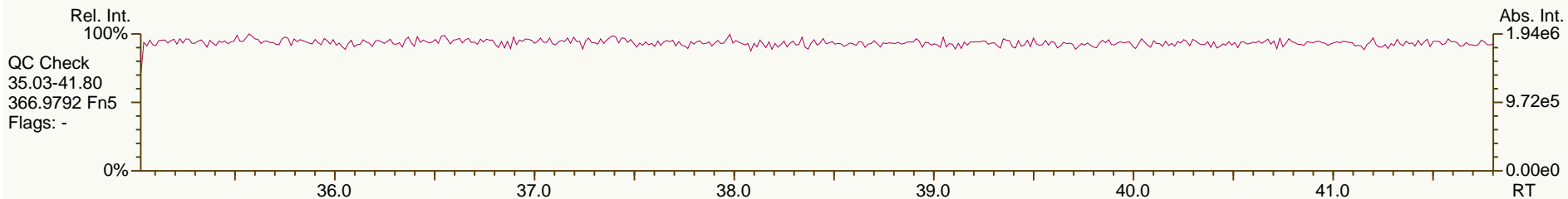
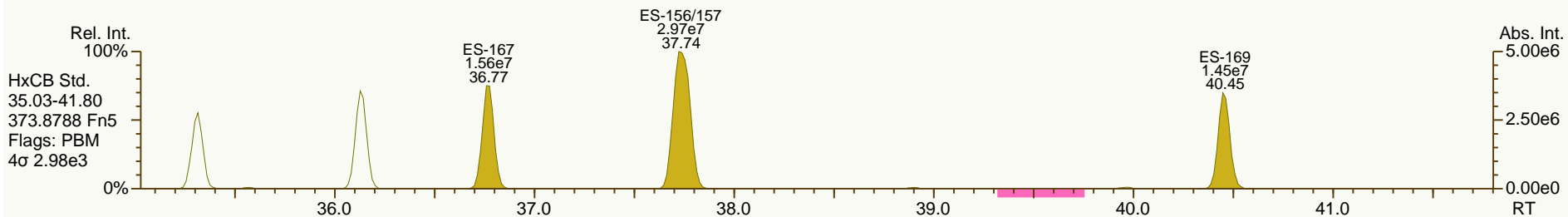
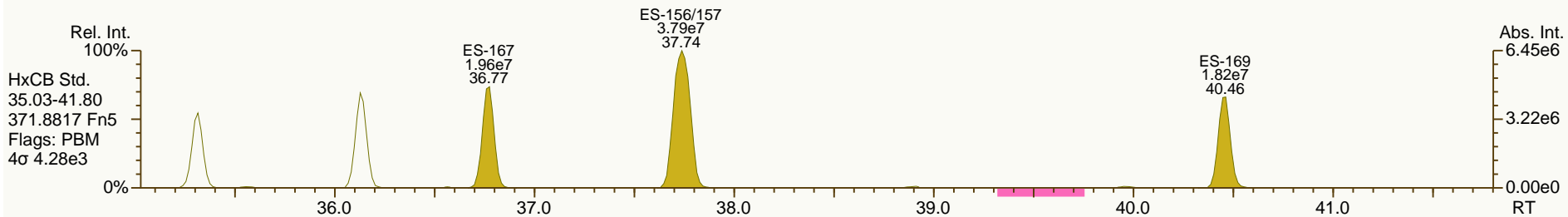
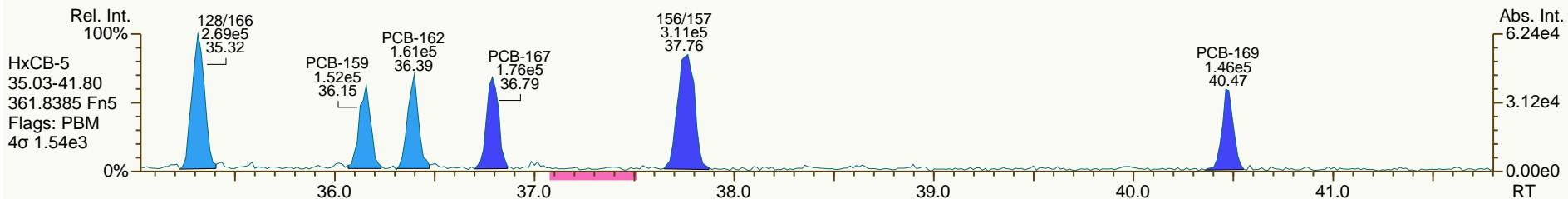
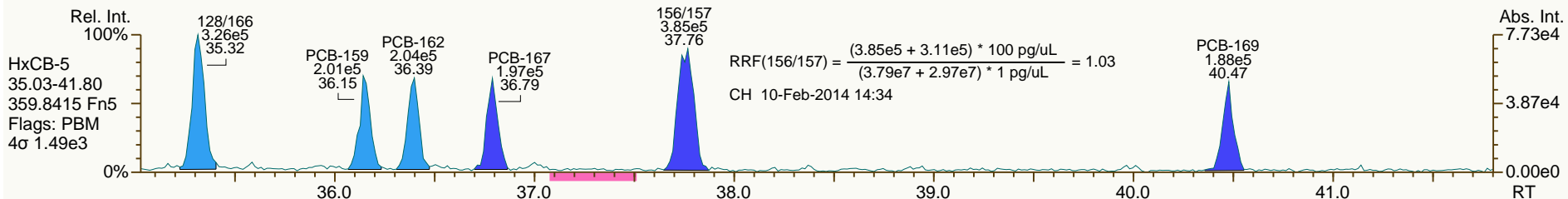
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

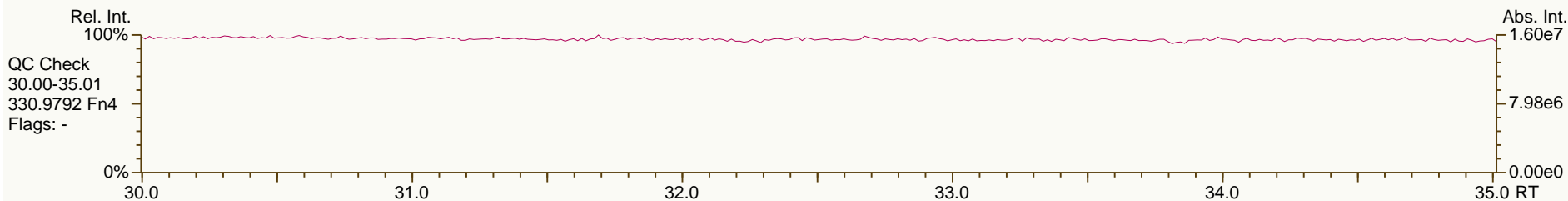
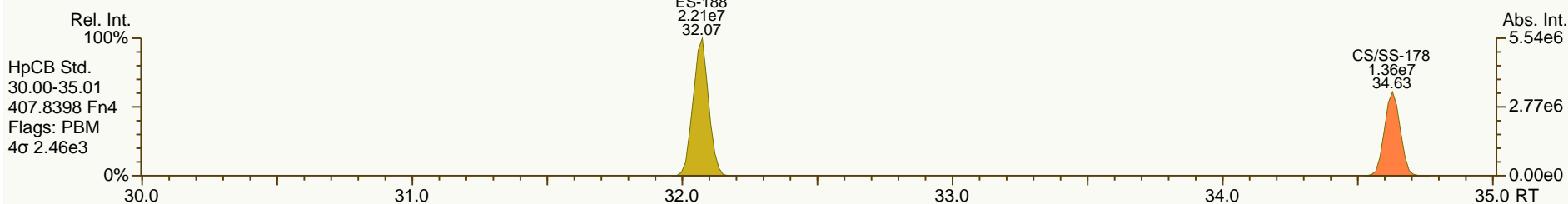
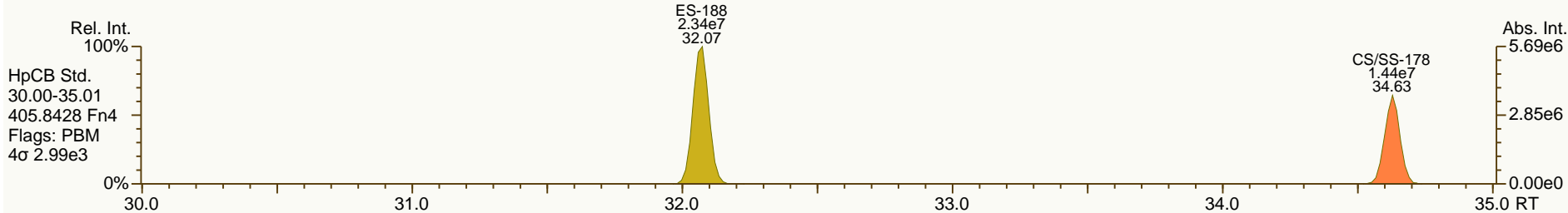
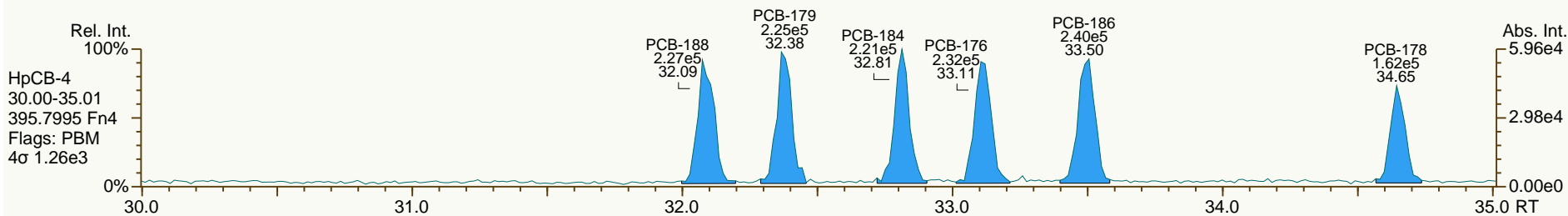
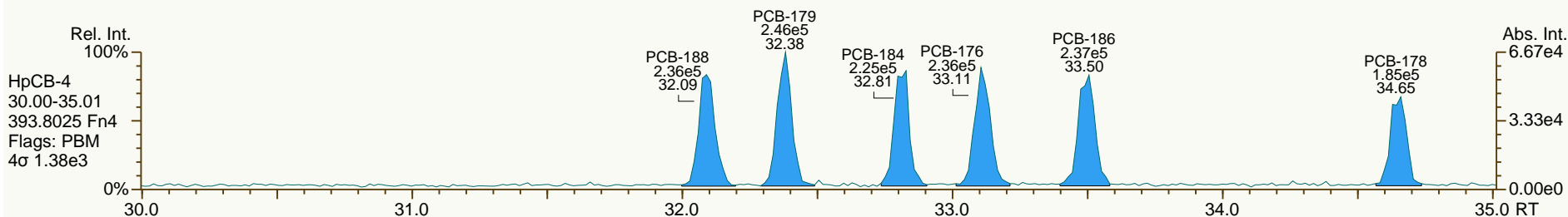
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SGS-AP ID: CS1\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

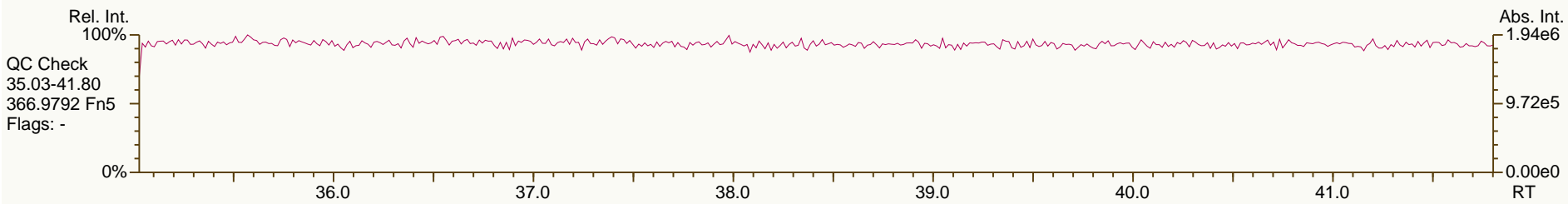
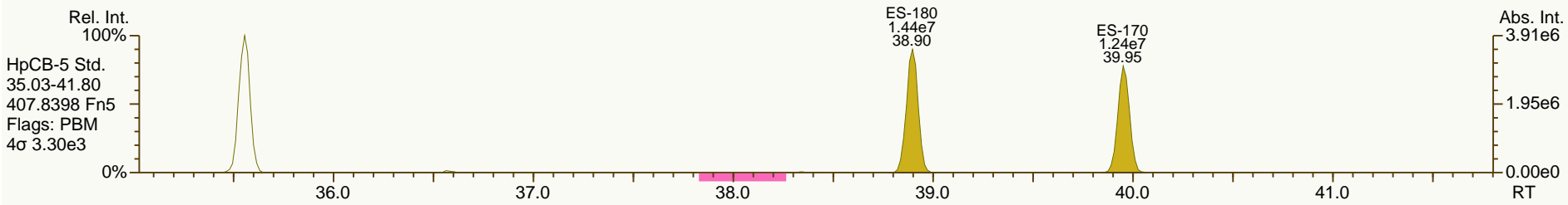
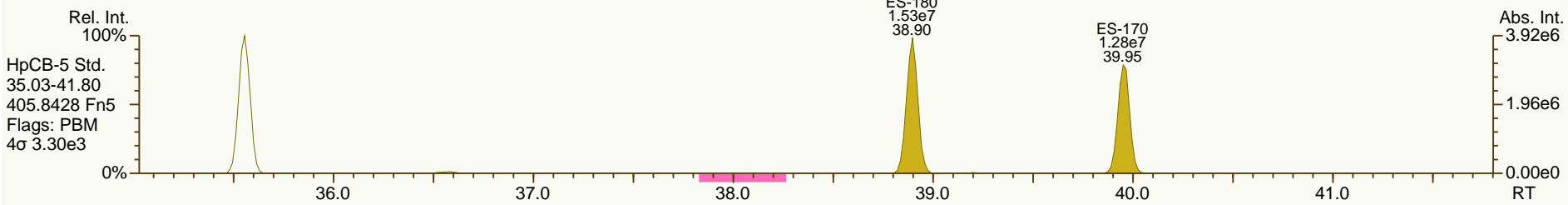
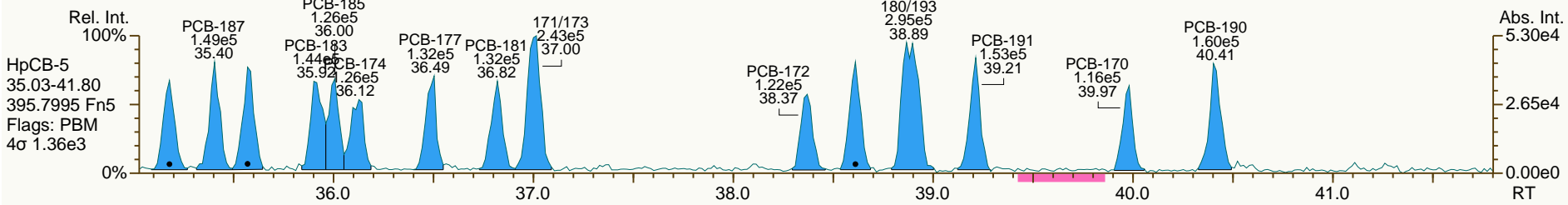
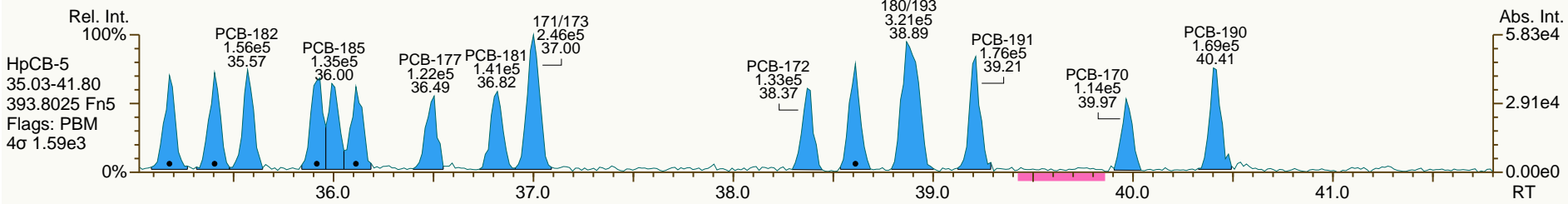
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SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

Acq: 05-Feb-2014 11:24:43  
 User: CTW Datafile: 140205S03

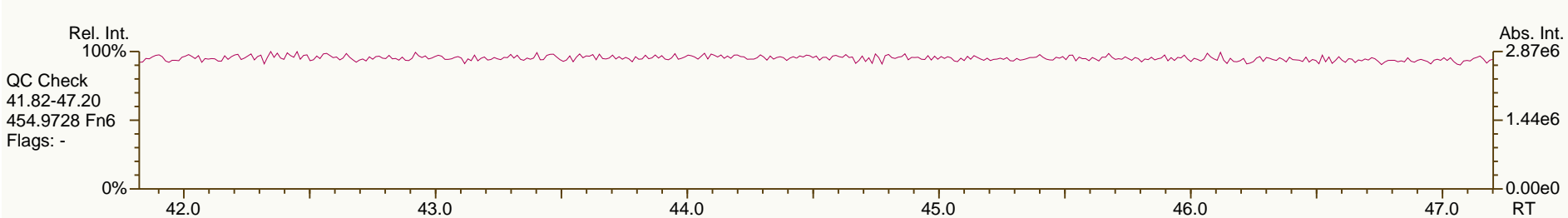
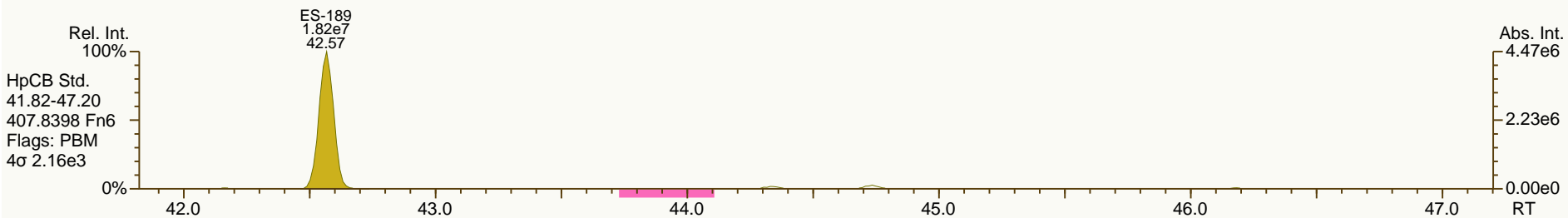
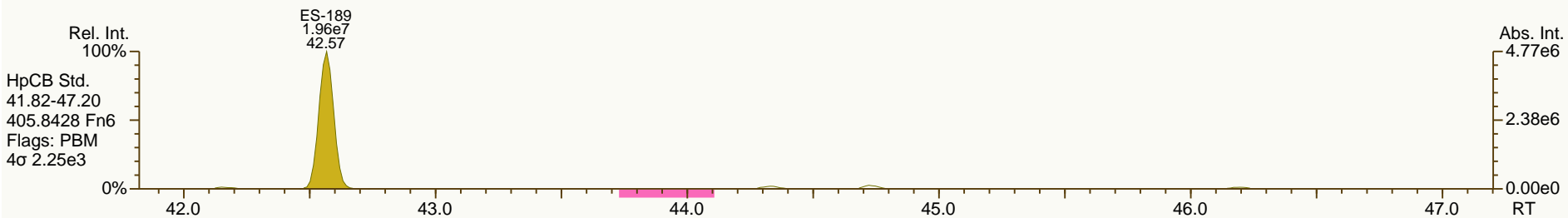
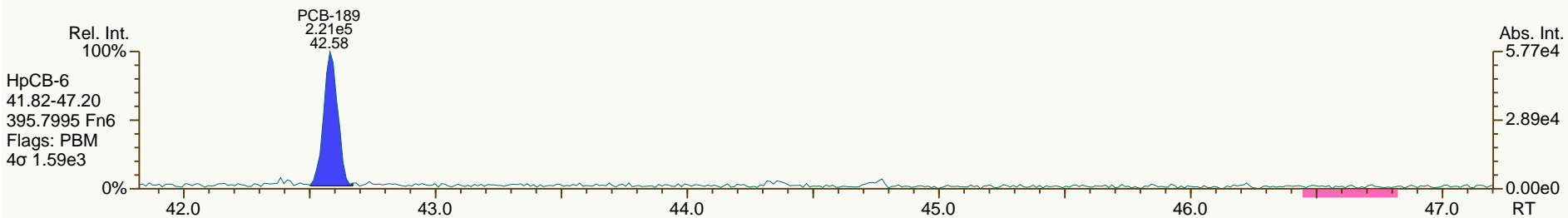
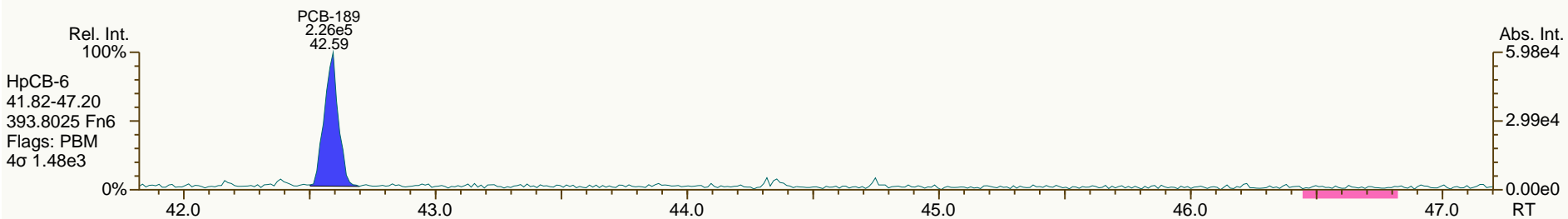




SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

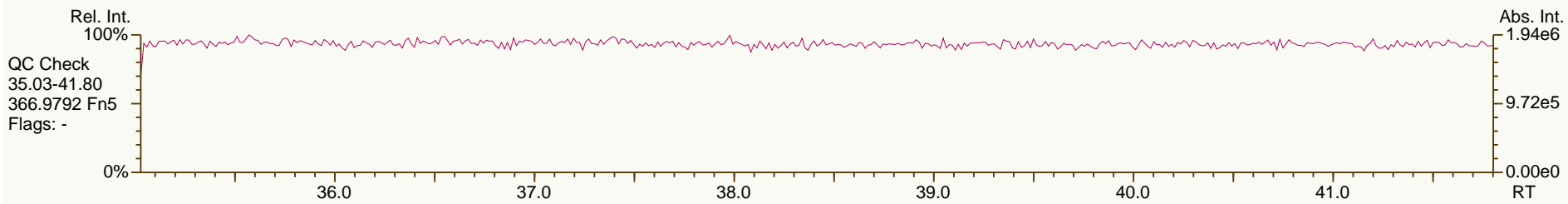
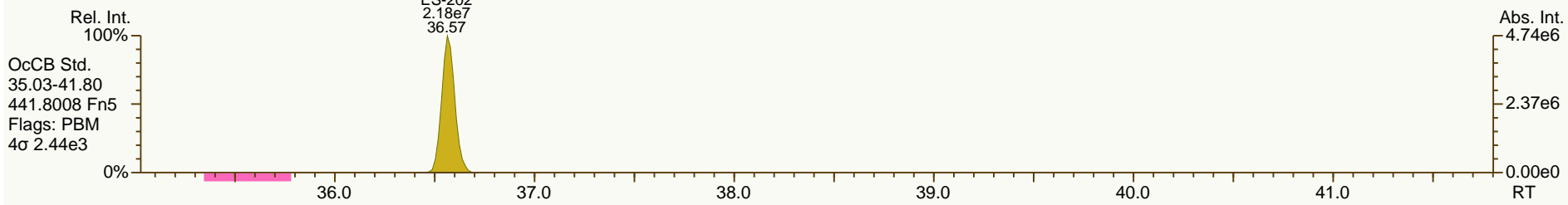
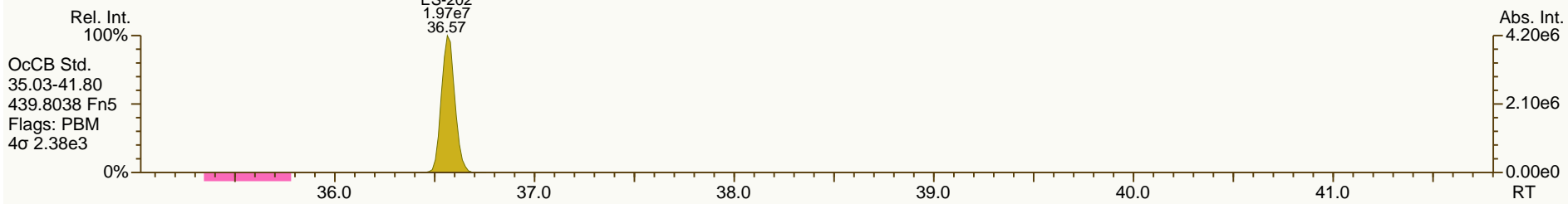
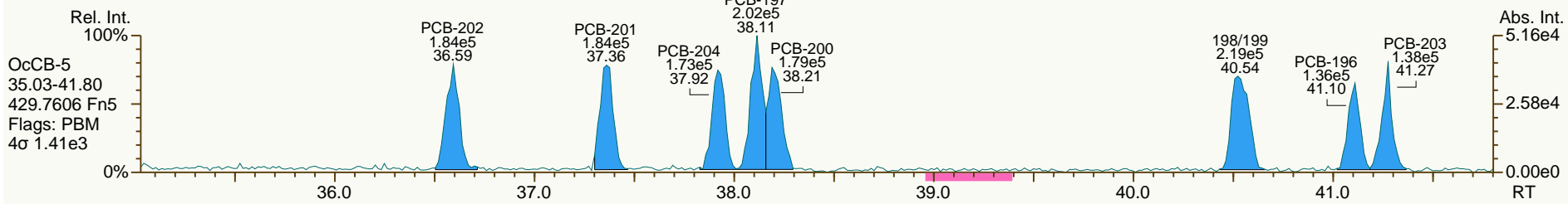
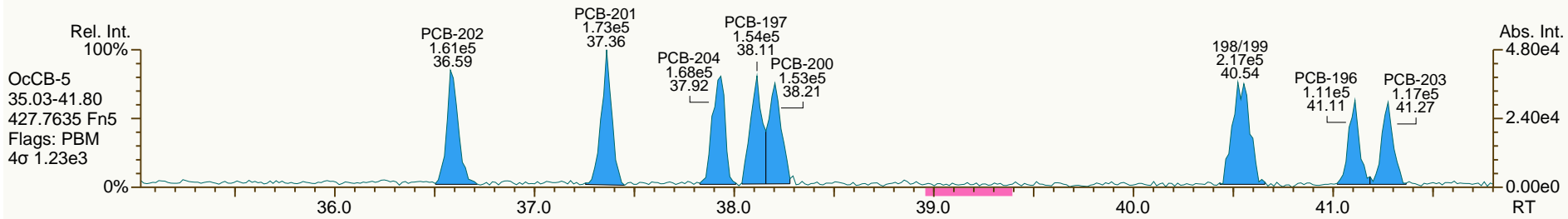
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SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

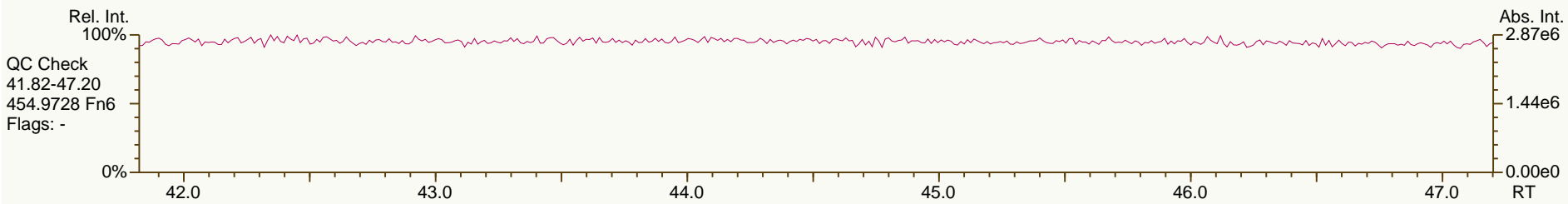
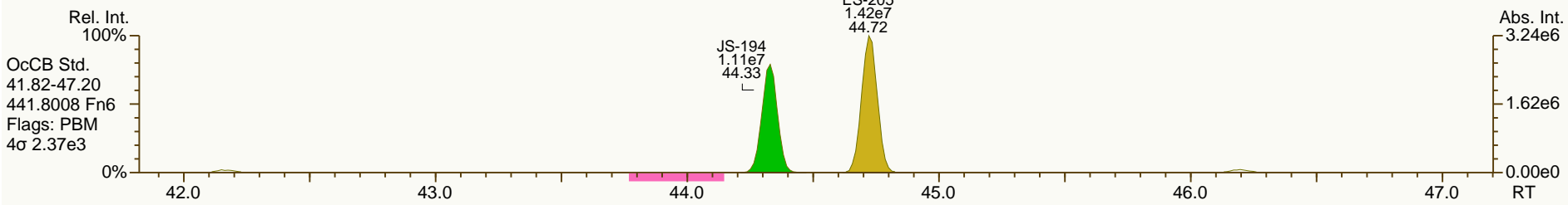
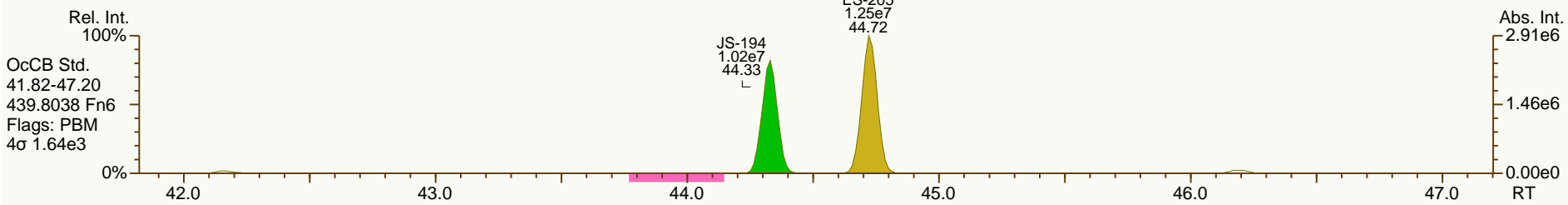
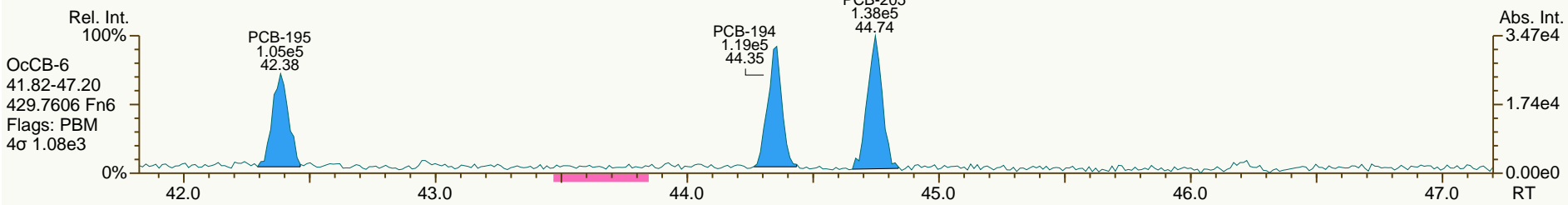
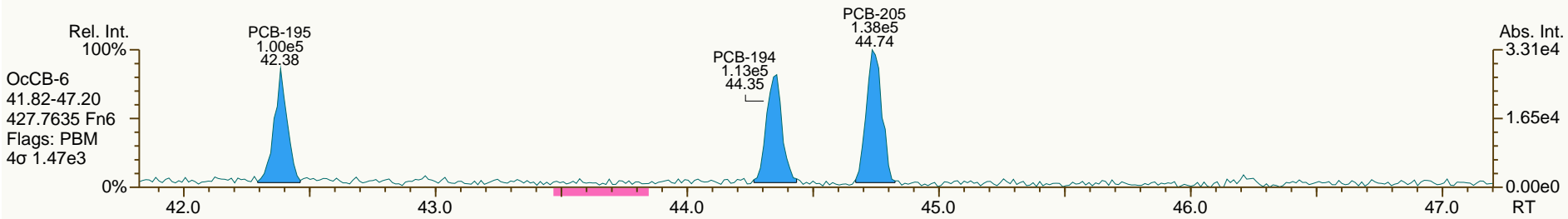
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SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

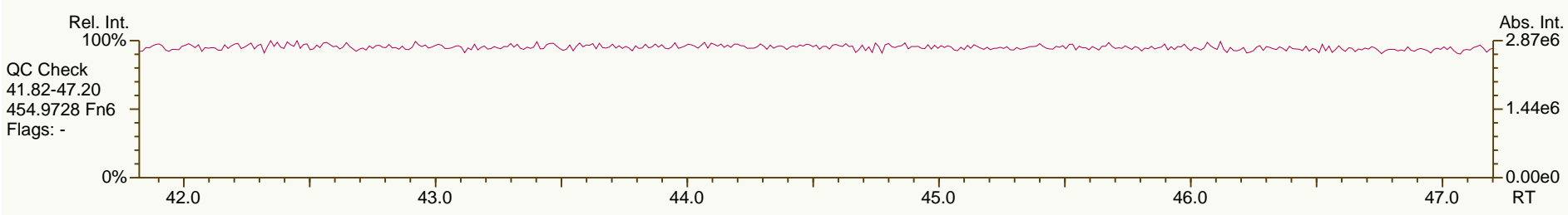
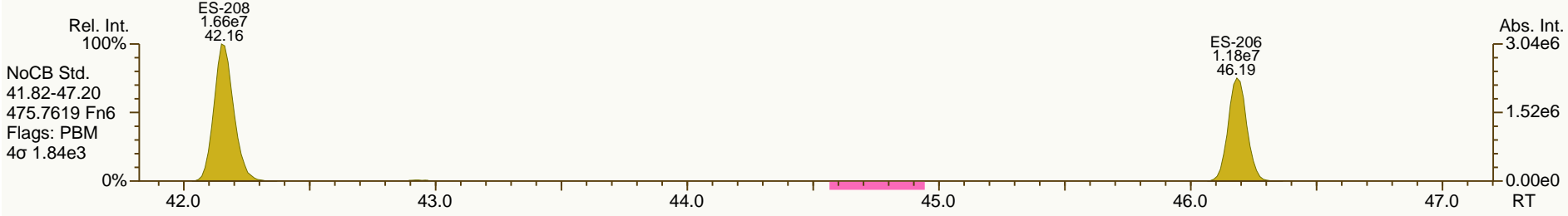
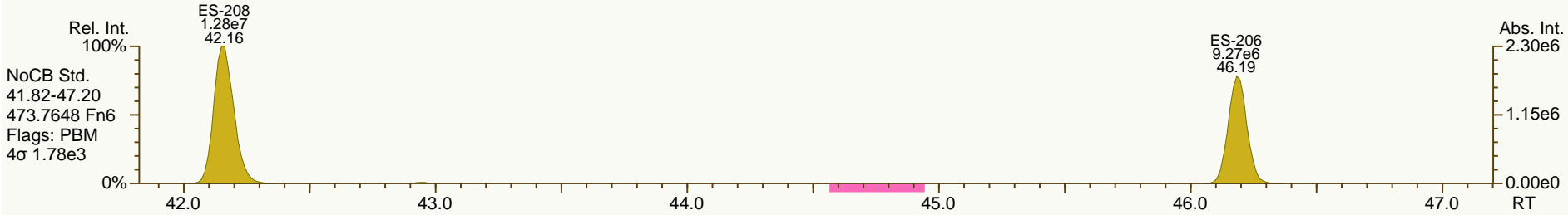
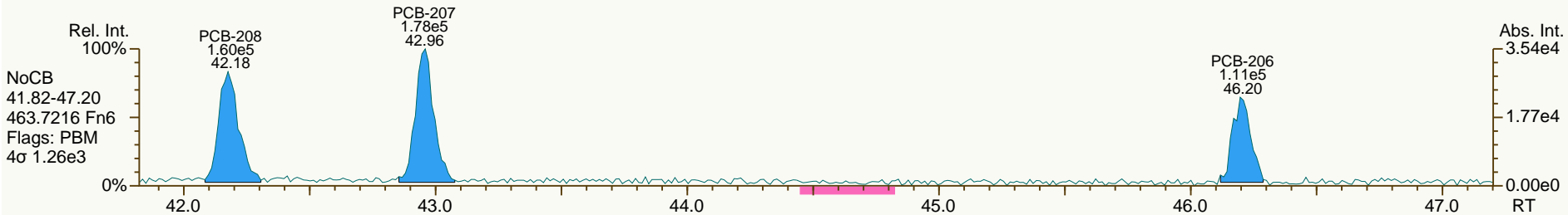
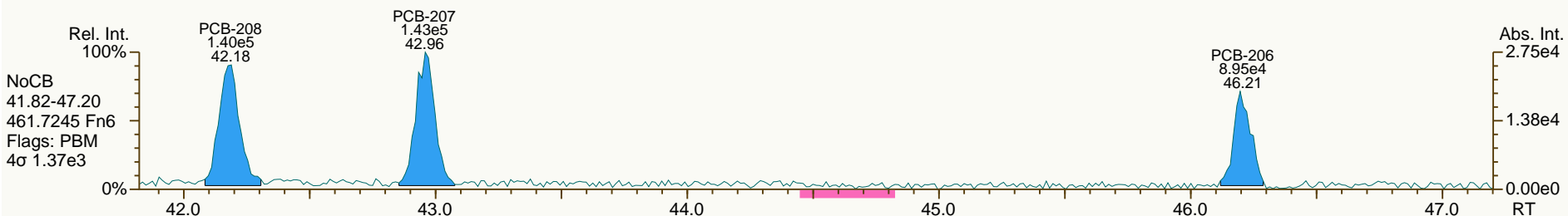
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SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

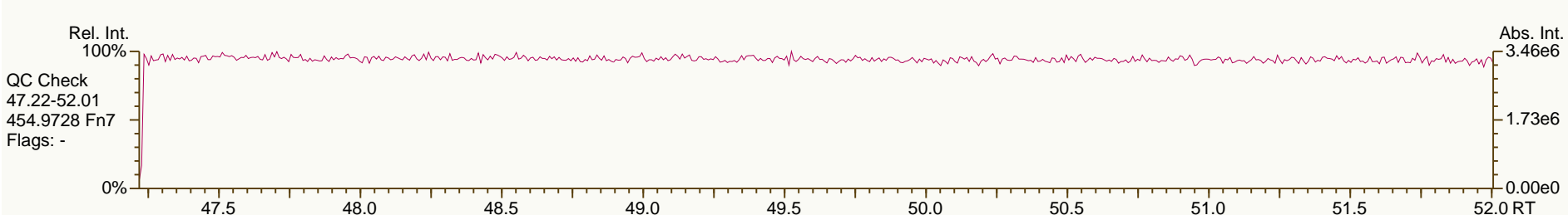
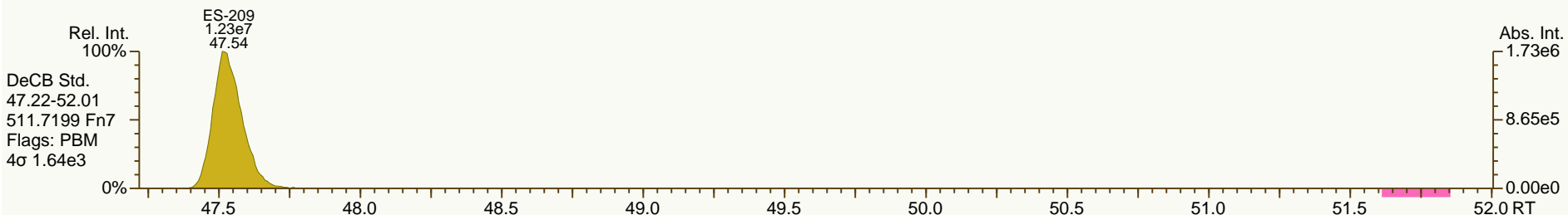
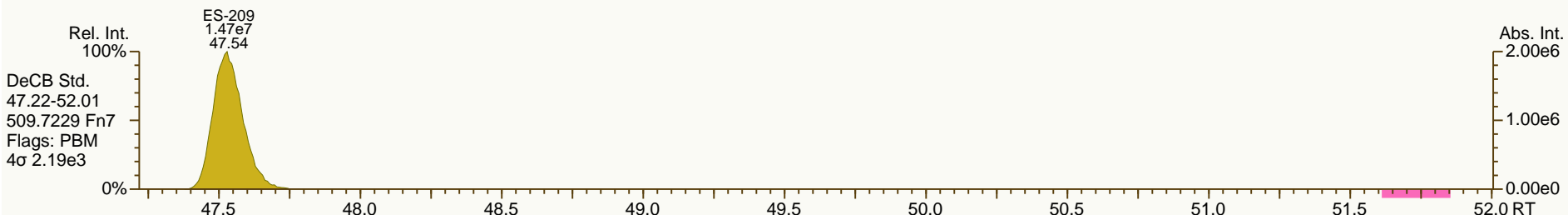
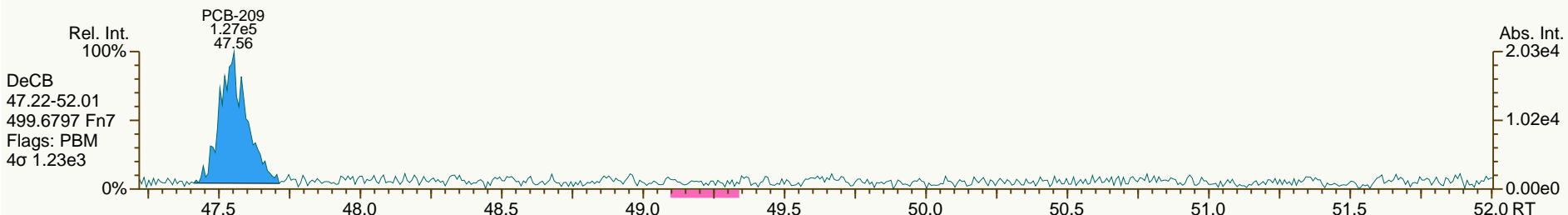
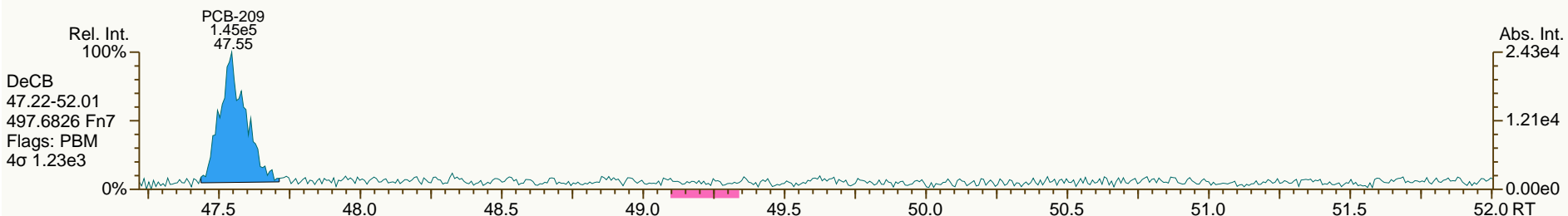
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SGS-AP ID: CS1\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 61

Acq: 05-Feb-2014 11:24:43  
 User: CTW Datafile: 140205S03



PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:52		
Lab ID:	CS2_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 12:18						
Datafile:	140205S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.71	3.21E+06	0.78 Y	1.36	1.29	-5.7%	
PCB-81 344'5'-TeCB	29.24	3.09E+06	0.77 Y	1.32	1.28	-2.9%	
PCB-105 233'44'-PeCB	32.64	2.02E+06	0.62 Y	1.03	0.97	-5.6%	
PCB-114 2344'5'-PeCB	32.10	2.17E+06	0.64 Y	1.13	1.08	-4.9%	
PCB-118 23'44'5'-PeCB	31.65	2.04E+06	0.63 Y	1.13	1.08	-4.4%	
PCB-123 23'44'5'-PeCB	31.38	2.02E+06	0.63 Y	1.11	1.04	-6.3%	
PCB-126 33'44'5'-PeCB	35.24	2.52E+06	0.61 Y	1.33	1.25	-5.8%	
PCB-156/157 ...-HxCB	37.76	3.72E+06	1.25 Y	1.09	1.05	-3.4%	
PCB-167 23'44'55'-HxCB	36.79	2.03E+06	1.30 Y	1.15	1.09	-5.1%	
PCB-169 33'44'55'-HxCB	40.47	1.71E+06	1.22 Y	1.10	1.01	-8.4%	
PCB-189 233'44'55'-HpCB	42.58	2.30E+06	1.03 Y	1.21	1.16	-4.5%	
PCB-209 DeCB	47.55	1.39E+06	1.17 Y	1.07	0.99	-7.1%	
ES PCB-1	10.19	8.02E+07	3.15 Y	1.05	1.06	0.5%	
ES PCB-3	12.15	7.33E+07	3.27 Y	0.97	0.97	-0.1%	
ES PCB-4	12.36	5.07E+07	1.57 Y	0.66	0.67	1.6%	
ES PCB-15	17.53	8.10E+07	1.63 Y	1.09	1.07	-1.5%	
ES PCB-19	15.10	4.21E+07	1.05 Y	0.55	0.56	1.5%	
ES PCB-37	23.52	5.66E+07	1.08 Y	1.44	1.43	-1.0%	
ES PCB-54	17.77	5.58E+07	0.78 Y	1.42	1.41	-0.9%	
ES PCB-77	29.69	4.99E+07	0.82 Y	1.26	1.26	0.1%	
ES PCB-81	29.22	4.85E+07	0.81 Y	1.27	1.22	-3.3%	
ES PCB-104	22.46	5.27E+07	1.59 Y	1.56	1.66	6.7%	
ES PCB-105	32.62	4.15E+07	1.62 Y	1.23	1.31	6.2%	
ES PCB-114	32.08	4.03E+07	1.63 Y	1.20	1.27	5.7%	
ES PCB-118	31.63	3.78E+07	1.58 Y	1.13	1.19	5.4%	
ES PCB-123	31.36	3.86E+07	1.57 Y	1.16	1.22	4.6%	
ES PCB-126	35.22	4.03E+07	1.63 Y	1.22	1.27	4.1%	
ES PCB-153	33.19	3.43E+07	1.30 Y	1.10	1.13	2.5%	
ES PCB-155	27.26	5.12E+07	1.26 Y	1.60	1.69	5.1%	
ES PCB-156/157	37.74	7.06E+07	1.24 Y	1.14	1.16	2.3%	
ES PCB-167	36.77	3.72E+07	1.28 Y	1.17	1.22	4.7%	
ES PCB-169	40.45	3.40E+07	1.27 Y	1.11	1.12	1.4%	
ES PCB-170	39.95	2.62E+07	1.11 Y	1.18	1.19	0.2%	
ES PCB-180	38.89	3.08E+07	1.07 Y	1.44	1.40	-2.9%	
ES PCB-188	32.06	4.80E+07	1.11 Y	1.52	1.58	4.1%	
ES PCB-189	42.56	3.98E+07	1.07 Y	1.80	1.80	0.0%	
ES PCB-202	36.56	4.32E+07	0.89 Y	1.39	1.42	2.5%	
ES PCB-205	44.72	2.80E+07	0.91 Y	1.26	1.27	0.6%	
ES PCB-206	46.18	2.21E+07	0.81 Y	1.00	1.00	0.5%	
ES PCB-208	42.16	3.03E+07	0.80 Y	1.38	1.37	-0.6%	
ES PCB-209	47.53	2.80E+07	1.19 Y	1.26	1.27	0.5%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:52		
Lab ID:	CS2_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 12:18						
Datafile:	140205S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	20.11	6.26E+07	1.07 Y	1.10	1.11	0.7%	
SS PCB-111	29.72	3.90E+07	1.59 Y	1.03	1.01	-1.8%	
SS PCB-178	34.62	2.87E+07	1.09 Y	0.62	0.60	-3.8%	
CS PCB-28	20.11	6.26E+07	1.07 Y	1.59	1.58	-0.2%	
CS PCB-111	29.72	3.90E+07	1.59 Y	1.20	1.23	2.8%	
CS PCB-178	34.62	2.87E+07	1.09 Y	0.94	0.94	0.2%	
JS PCB-9	14.12	7.56E+07	1.63 Y	-	-	-	
JS PCB-52	21.67	3.96E+07	0.77 Y	-	-	-	
JS PCB-101	27.46	3.17E+07	1.62 Y	-	-	-	
JS PCB-138	34.24	3.04E+07	1.23 Y	-	-	-	
JS PCB-194	44.32	2.21E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	10.20	4.77E+06	3.17 Y	1.21	1.19	-1.9%	
PCB-3 4-MoCB	12.16	4.66E+06	3.23 Y	1.30	1.27	-1.8%	
PCB-4 22'-DiCB	12.38	2.42E+06	1.46 Y	0.98	0.95	-2.8%	
PCB-15 44'-DiCB	17.54	4.63E+06	1.55 Y	1.19	1.14	-3.7%	
PCB-19 22'6'-TrCB	15.12	2.12E+06	1.08 Y	1.05	1.01	-4.4%	
PCB-37 344'-TrCB	23.54	3.55E+06	1.05 Y	1.32	1.26	-5.3%	
PCB-54 22'66'-TeCB	17.78	2.83E+06	0.77 Y	1.02	1.01	-0.2%	
PCB-104 22'466'-PeCB	22.48	2.51E+06	0.59 Y	1.02	0.95	-6.7%	
PCB-155 22'44'66'-HxCB	27.28	2.66E+06	1.25 Y	1.11	1.04	-5.9%	
PCB-188 22'34'566'-HpCB	32.08	2.50E+06	1.11 Y	1.10	1.04	-5.3%	
PCB-202 22'33'55'66'-OcCB	36.59	1.70E+06	0.90 Y	0.83	0.79	-5.0%	
PCB-205 233'44'55'6'-OcCB	44.74	1.49E+06	0.93 Y	1.11	1.06	-4.5%	
PCB-208 22'33'455'66'-NoCB	42.18	1.45E+06	0.76 Y	1.01	0.96	-5.3%	
PCB-206 22'33'44'55'6'-NoCB	46.21	1.07E+06	0.80 Y	1.01	0.96	-4.9%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:52			
Lab ID:	CS2_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 12:18						
Datafile:	140205S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	10.20	4.77E+06	3.17 Y	1.21	1.19	-1.9%	
PCB-2 3-MoCB	12.01	4.58E+06	3.31 Y	1.29	1.25	-2.8%	
PCB-3 4-MoCB	12.16	4.66E+06	3.23 Y	1.30	1.27	-1.8%	
PCB-4 22'-DiCB	12.38	2.42E+06	1.46 Y	0.98	0.95	-2.8%	
PCB-10 26'-DiCB	12.53	3.74E+06	1.52 Y	1.53	1.48	-3.6%	
PCB-9 25'-DiCB	14.13	4.17E+06	1.52 Y	1.04	1.03	-0.6%	
PCB-7 24'-DiCB	14.28	4.73E+06	1.56 Y	1.18	1.17	-1.2%	
PCB-6 23'-DiCB	14.49	4.48E+06	1.55 Y	1.11	1.11	-0.1%	
PCB-5 23'-DiCB	14.75	4.31E+06	1.57 Y	1.10	1.06	-3.4%	
PCB-8 24'-DiCB	14.86	4.67E+06	1.54 Y	1.13	1.15	1.8%	
PCB-14 35'-DiCB	16.28	5.11E+06	1.56 Y	1.28	1.26	-1.6%	
PCB-11 33'-DiCB	17.01	4.35E+06	1.60 Y	1.10	1.08	-2.6%	
PCB-13/12 34'/34'-DiCB	17.28	8.68E+06	1.52 Y	1.11	1.07	-3.8%	
PCB-15 44'-DiCB	17.54	4.63E+06	1.55 Y	1.19	1.14	-3.7%	
PCB-19 22'6'-TrCB	15.12	2.12E+06	1.08 Y	1.05	1.01	-4.4%	
PCB-30/18 246'/22'5'-TrCB	16.72	5.31E+06	1.03 Y	1.33	1.26	-5.3%	
PCB-17 22'4'-TrCB	17.10	2.26E+06	0.98 Y	1.15	1.07	-7.2%	
PCB-27 23'6'-TrCB	17.28	3.05E+06	1.04 Y	1.56	1.45	-7.5%	
PCB-24 236'-TrCB	17.40	2.98E+06	1.05 Y	1.50	1.41	-5.5%	
PCB-16 22'3'-TrCB	17.49	1.67E+06	1.04 Y	0.88	0.79	-9.5%	
PCB-32 24'6'-TrCB	17.94	3.44E+06	1.05 Y	1.74	1.64	-5.9%	
PCB-34 23'5'-TrCB	19.02	3.76E+06	1.09 Y	1.33	1.33	0.0%	
PCB-23 235'-TrCB	19.15	3.90E+06	1.05 Y	1.40	1.38	-1.3%	
PCB-26/29 23'5'/245'-TrCB	19.43	7.87E+06	1.06 Y	1.41	1.39	-1.3%	
PCB-25 23'4'-TrCB	19.62	3.91E+06	1.06 Y	1.41	1.38	-1.9%	
PCB-31 24'5'-TrCB	19.88	4.13E+06	1.02 Y	1.46	1.46	-0.2%	
PCB-28/20 244'/233'-TrCB	20.15	7.70E+06	1.05 Y	1.39	1.36	-2.1%	
PCB-21/33 234'/23'4'-TrCB	20.31	7.82E+06	1.07 Y	1.42	1.38	-2.5%	
PCB-22 234'-TrCB	20.67	3.58E+06	1.09 Y	1.29	1.27	-1.8%	
PCB-36 33'5'-TrCB	22.00	3.76E+06	1.09 Y	1.42	1.33	-6.1%	
PCB-39 34'5'-TrCB	22.31	3.99E+06	1.07 Y	1.45	1.41	-3.0%	
PCB-38 345'-TrCB	22.80	3.56E+06	1.02 Y	1.30	1.26	-3.5%	
PCB-35 33'4'-TrCB	23.20	3.37E+06	1.07 Y	1.25	1.19	-4.2%	
PCB-37 344'-TrCB	23.54	3.55E+06	1.05 Y	1.32	1.26	-5.3%	
PCB-54 22'66'-TeCB	17.78	2.83E+06	0.77 Y	1.02	1.01	-0.2%	
PCB-50/53 22'46'/22'56'-TeCB	19.65	4.04E+06	0.75 Y	0.85	0.83	-1.8%	
PCB-45 22'36'-TeCB	20.20	1.65E+06	0.74 Y	0.71	0.68	-4.5%	
PCB-51 22'46'-TeCB	20.27	2.10E+06	0.75 Y	0.88	0.87	-1.5%	
PCB-46 22'36'-TeCB	20.47	1.62E+06	0.77 Y	0.68	0.67	-1.8%	
PCB-52 22'55'-TeCB	21.69	1.93E+06	0.77 Y	0.80	0.80	-1.0%	
PCB-73 23'5'6'-TeCB	21.81	2.65E+06	0.80 Y	1.07	1.10	2.7%	
PCB-43 22'35'-TeCB	21.89	1.50E+06	0.84 Y	0.68	0.62	-9.2%	
PCB-69/49 23'46'/22'45'-TeCB	22.08	4.66E+06	0.80 Y	0.97	0.96	-1.2%	



PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:52			
Lab ID:	CS2_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 12:18						
Datafile:	140205S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.34	1.89E+06	0.77 Y	0.80	0.78	-3.0%	
PCB-44/47/65 ...-TeCB	22.55	6.18E+06	0.79 Y	0.87	0.85	-2.6%	
PCB-59/62/75 ...-TeCB	22.81	7.92E+06	0.77 Y	1.11	1.09	-2.1%	
PCB-42 22'34'-TeCB	22.98	1.72E+06	0.78 Y	0.73	0.71	-2.5%	
PCB-41 22'34'-TeCB	23.29	1.54E+06	0.74 Y	0.66	0.64	-3.0%	
PCB-71/40 23'4'6/22'33'-TeCB	23.39	3.87E+06	0.77 Y	0.82	0.80	-3.3%	
PCB-64 23'4'6'-TeCB	23.58	2.78E+06	0.76 Y	1.20	1.15	-4.0%	
PCB-72 23'55'-TeCB	24.30	3.31E+06	0.80 Y	1.39	1.37	-1.4%	
PCB-68 23'45'-TeCB	24.54	3.60E+06	0.79 Y	1.49	1.49	-0.1%	
PCB-57 23'3'5'-TeCB	24.89	3.21E+06	0.79 Y	1.33	1.32	-0.5%	
PCB-58 23'3'5'-TeCB	25.09	3.29E+06	0.79 Y	1.38	1.36	-1.8%	
PCB-67 23'45'-TeCB	25.24	3.45E+06	0.83 Y	1.47	1.42	-3.3%	
PCB-63 23'4'5'-TeCB	25.46	3.54E+06	0.79 Y	1.50	1.46	-2.8%	
PCB-61/70/74/76 ...-TeCB	25.74	1.31E+07	0.78 Y	1.38	1.35	-2.5%	
PCB-66 23'44'-TeCB	26.02	3.08E+06	0.79 Y	1.28	1.27	-0.7%	
PCB-55 23'3'4'-TeCB	26.16	3.14E+06	0.78 Y	1.33	1.29	-2.5%	
PCB-56 23'3'4'-TeCB	26.58	2.98E+06	0.78 Y	1.25	1.23	-1.6%	
PCB-60 23'44'-TeCB	26.76	3.13E+06	0.78 Y	1.34	1.29	-3.8%	
PCB-80 33'55'-TeCB	27.11	3.53E+06	0.80 Y	1.51	1.46	-3.3%	
PCB-79 33'45'-TeCB	28.40	3.59E+06	0.80 Y	1.55	1.48	-4.1%	
PCB-78 33'45'-TeCB	28.87	2.93E+06	0.77 Y	1.25	1.21	-3.0%	
PCB-104 22'466'-PeCB	22.48	2.51E+06	0.59 Y	1.02	0.95	-6.7%	
PCB-96 22'366'-PeCB	22.80	2.17E+06	0.60 Y	0.90	0.82	-8.8%	
PCB-103 22'45'6'-PeCB	24.44	1.69E+06	0.60 Y	0.92	0.88	-4.4%	
PCB-94 22'356'-PeCB	24.63	1.44E+06	0.62 Y	0.79	0.74	-6.3%	
PCB-95 22'35'6'-PeCB	25.00	1.52E+06	0.62 Y	0.85	0.79	-6.6%	
PCB-100/93 22'44'6/22'356'-PeCB	25.19	3.25E+06	0.59 Y	0.88	0.84	-4.4%	
PCB-102 22'456'-PeCB	25.31	1.93E+06	0.58 Y	0.95	1.00	5.3%	
PCB-98 22'34'6'-PeCB	25.37	1.19E+06	0.61 Y	0.76	0.62	-19.2%	
PCB-88 22'346'-PeCB	25.65	1.39E+06	0.62 Y	0.80	0.72	-9.9%	
PCB-91 22'34'6'-PeCB	25.73	1.62E+06	0.58 Y	0.90	0.84	-7.2%	
PCB-84 22'33'6'-PeCB	25.92	1.31E+06	0.62 Y	0.71	0.68	-4.4%	
PCB-89 22'346'-PeCB	26.32	1.39E+06	0.61 Y	0.76	0.72	-4.9%	
PCB-121 23'45'6'-PeCB	26.67	2.09E+06	0.65 Y	1.15	1.08	-5.6%	
PCB-92 22'355'-PeCB	26.99	1.45E+06	0.61 Y	0.80	0.75	-6.3%	
PCB-113/90/101 ...-PeCB	27.46	5.18E+06	0.63 Y	0.94	0.90	-4.7%	
PCB-83 22'33'5'-PeCB	27.88	1.23E+06	0.61 Y	0.68	0.64	-7.2%	
PCB-99 22'44'5'-PeCB	27.97	1.62E+06	0.63 Y	0.88	0.84	-4.7%	
PCB-112 23'3'56'-PeCB	28.07	2.01E+06	0.63 Y	1.08	1.04	-3.8%	
PCB-109/119/86/97/125...-PeCB	28.40	1.05E+07	0.63 Y	0.96	0.91	-5.2%	
PCB-117 23'4'56'-PeCB	28.92	1.78E+06	0.62 Y	1.00	0.92	-8.1%	
PCB-116/85 23'456/22'344'-PeCB	29.00	3.58E+06	0.62 Y	0.95	0.93	-1.8%	
PCB-110 23'3'4'6'-PeCB	29.14	1.75E+06	0.62 Y	1.06	0.90	-14.3%	

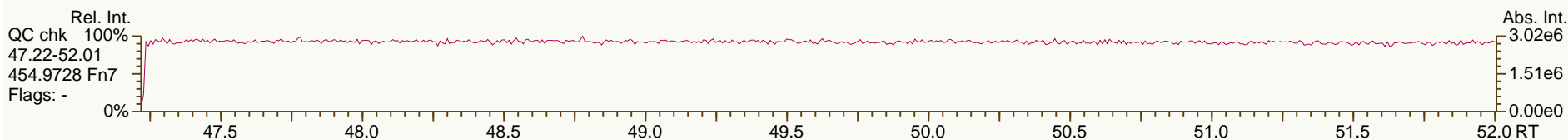
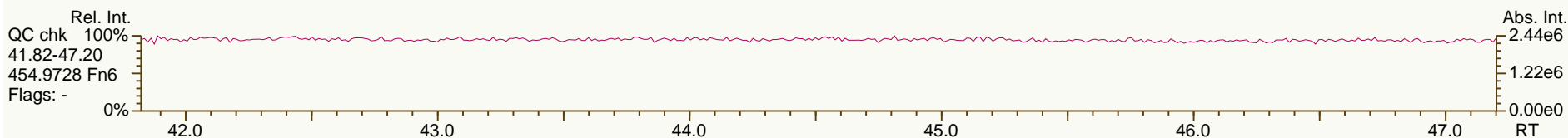
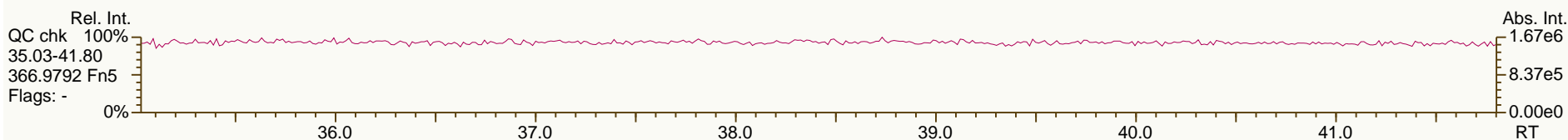
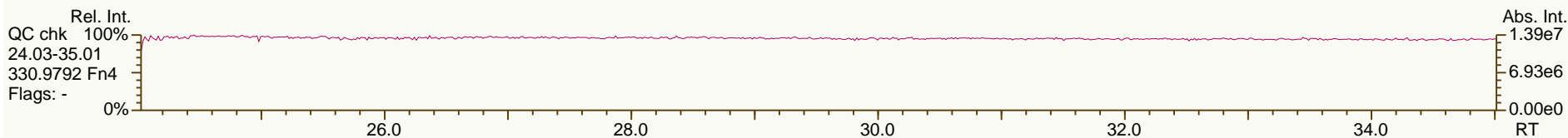
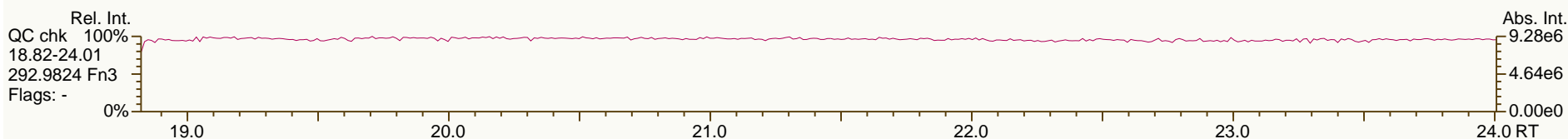
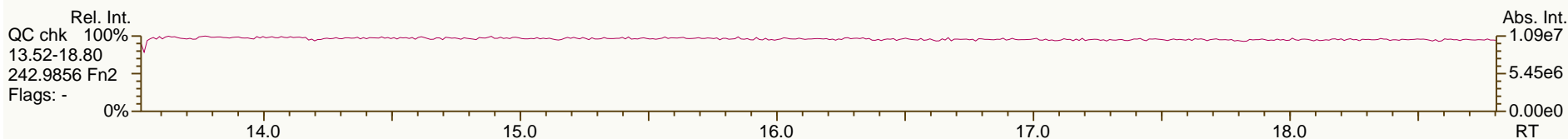
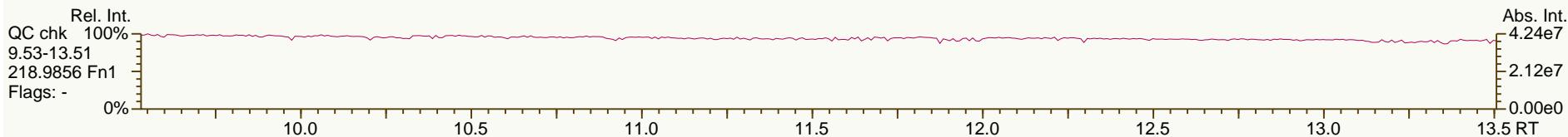
PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:52			
Lab ID:	CS2_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 12:18						
Datafile:	140205S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	29.20	2.18E+06	0.65 Y	1.09	1.13	3.7%	
PCB-82 22'33'4-PeCB	29.41	1.23E+06	0.64 Y	0.67	0.64	-4.1%	
PCB-111 233'55'-PeCB	29.74	2.13E+06	0.62 Y	1.15	1.10	-4.0%	
PCB-120 23'455'-PeCB	30.13	2.12E+06	0.62 Y	1.13	1.10	-2.8%	
PCB-108/124 ...-PeCB	31.08	3.86E+06	0.62 Y	1.03	1.00	-2.6%	
PCB-107 233'4'5-PeCB	31.28	2.09E+06	0.61 Y	1.11	1.08	-2.5%	
PCB-106 233'45-PeCB	31.48	1.87E+06	0.64 Y	1.02	0.97	-5.0%	
PCB-122 233'4'5'-PeCB	31.94	1.78E+06	0.64 Y	0.92	0.89	-4.1%	
PCB-127 33'455'-PeCB	33.88	1.91E+06	0.62 Y	0.96	0.92	-3.7%	
PCB-155 22'44'66'-HxCB	27.28	2.66E+06	1.25 Y	1.11	1.04	-5.9%	
PCB-152 22'3566'-HxCB	27.45	2.42E+06	1.29 Y	1.03	0.94	-8.1%	
PCB-150 22'34'66'-HxCB	27.59	2.42E+06	1.22 Y	1.00	0.94	-6.0%	
PCB-136 22'33'66'-HxCB	27.89	2.17E+06	1.30 Y	0.96	0.85	-11.5%	
PCB-145 22'3466'-HxCB	28.14	2.34E+06	1.27 Y	0.97	0.92	-5.5%	
PCB-148 22'34'56'-HxCB	29.41	1.71E+06	1.28 Y	1.07	1.00	-7.2%	
PCB-151/135 ...-HxCB	29.93	3.24E+06	1.29 Y	1.02	0.95	-7.0%	
PCB-154 22'44'56'-HxCB	30.12	1.90E+06	1.26 Y	1.16	1.11	-4.6%	
PCB-144 22'345'6-HxCB	30.39	1.66E+06	1.26 Y	1.02	0.97	-5.2%	
PCB-147/149 ...-HxCB	30.69	3.47E+06	1.30 Y	1.03	1.01	-1.9%	
PCB-134 22'33'56-HxCB	30.85	1.26E+06	1.30 Y	0.82	0.74	-10.5%	
PCB-143 22'3456'-HxCB	30.93	1.72E+06	1.29 Y	0.98	1.00	2.1%	
PCB-139/140 ...-HxCB	31.19	3.48E+06	1.33 Y	1.07	1.02	-4.9%	
PCB-131 22'33'46-HxCB	31.36	1.49E+06	1.31 Y	0.92	0.87	-5.3%	
PCB-142 22'3456-HxCB	31.49	1.46E+06	1.18 Y	0.91	0.85	-5.7%	
PCB-132 22'33'46'-HxCB	31.74	1.52E+06	1.28 Y	0.93	0.89	-4.8%	
PCB-133 22'33'55'-HxCB	32.16	1.54E+06	1.27 Y	0.96	0.90	-6.5%	
PCB-165 233'55'6-HxCB	32.50	1.93E+06	1.28 Y	1.18	1.13	-4.2%	
PCB-146 22'34'55'-HxCB	32.70	1.74E+06	1.25 Y	1.10	1.01	-7.5%	
PCB-161 233'45'6-HxCB	32.82	2.26E+06	1.31 Y	1.35	1.32	-2.4%	
PCB-153/168 ...-HxCB	33.24	4.20E+06	1.29 Y	1.29	1.23	-4.8%	
PCB-141 22'3455'-HxCB	33.38	1.61E+06	1.22 Y	0.96	0.94	-2.5%	
PCB-130 22'33'45'-HxCB	33.73	1.40E+06	1.27 Y	0.85	0.82	-4.1%	
PCB-137 22'344'5-HxCB	33.91	1.64E+06	1.26 Y	1.05	0.96	-9.1%	
PCB-164 233'4'5'6-HxCB	34.00	2.14E+06	1.20 Y	1.26	1.25	-1.2%	
PCB-163/138/129 ...-HxCB	34.28	5.10E+06	1.24 Y	1.06	0.99	-6.1%	
PCB-160 233'456-HxCB	34.40	2.11E+06	1.22 Y	1.24	1.23	-0.9%	
PCB-158 233'44'6-HxCB	34.59	2.21E+06	1.28 Y	1.34	1.29	-3.9%	
PCB-128/166 ...-HxCB	35.31	3.26E+06	1.26 Y	0.93	0.88	-5.9%	
PCB-159 233'455'-HxCB	36.15	1.86E+06	1.26 Y	1.09	1.00	-8.2%	
PCB-162 233'4'55'-HxCB	36.39	1.90E+06	1.26 Y	1.08	1.02	-5.7%	
PCB-188 22'34'566'-HpCB	32.08	2.50E+06	1.11 Y	1.10	1.04	-5.3%	
PCB-179 22'33'566'-HpCB	32.37	2.29E+06	1.08 Y	1.01	0.95	-6.1%	
PCB-184 22'344'66'-HpCB	32.81	2.26E+06	1.08 Y	1.02	0.94	-7.3%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:52			
Lab ID:	CS2_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 12:18						
Datafile:	140205S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	33.11	2.46E+06	1.10 Y	1.08	1.02	-5.4%	
PCB-186 22'34566'-HpCB	33.49	2.27E+06	1.04 Y	1.02	0.94	-7.6%	
PCB-178 22'33'55'6'-HpCB	34.64	1.66E+06	1.01 Y	0.75	0.69	-7.9%	
PCB-175 22'33'45'6'-HpCB	35.17	1.50E+06	1.03 Y	0.99	0.97	-1.8%	
PCB-187 22'34'55'6'-HpCB	35.40	1.58E+06	0.95 Y	1.05	1.03	-1.8%	
PCB-182 22'344'56'-HpCB	35.57	1.62E+06	0.99 Y	1.08	1.05	-2.6%	
PCB-183 22'344'5'6'-HpCB	35.92	1.68E+06	1.00 Y	1.07	1.09	1.4%	
PCB-185 22'3455'6'-HpCB	36.00	1.33E+06	1.02 Y	0.97	0.86	-11.2%	
PCB-174 22'33'456'-HpCB	36.11	1.34E+06	1.04 Y	0.89	0.87	-2.1%	
PCB-177 22'33'45'6'-HpCB	36.49	1.28E+06	1.00 Y	0.87	0.83	-4.8%	
PCB-181 22'344'56'-HpCB	36.81	1.49E+06	1.01 Y	0.98	0.97	-1.9%	
PCB-171/173 ...-HpCB	37.00	2.62E+06	1.00 Y	0.87	0.85	-2.5%	
PCB-172 22'33'455'-HpCB	38.37	1.31E+06	1.02 Y	0.88	0.85	-2.9%	
PCB-192 233'455'6'-HpCB	38.61	1.74E+06	1.02 Y	1.16	1.13	-2.7%	
PCB-180/193 ...-HpCB	38.88	3.25E+06	1.03 Y	1.08	1.06	-2.1%	
PCB-191 233'44'5'6'-HpCB	39.21	1.80E+06	1.04 Y	1.17	1.16	-0.8%	
PCB-170 22'33'44'5'-HpCB	39.97	1.30E+06	0.96 Y	1.03	0.99	-3.3%	
PCB-190 233'44'56'-HpCB	40.41	1.74E+06	1.05 Y	1.44	1.33	-8.0%	
PCB-202 22'33'55'66'-OcCB	36.59	1.70E+06	0.90 Y	0.83	0.79	-5.0%	
PCB-201 22'33'45'66'-OcCB	37.36	1.86E+06	0.86 Y	0.88	0.86	-2.8%	
PCB-204 22'344'566'-OcCB	37.92	1.75E+06	0.89 Y	0.86	0.81	-5.8%	
PCB-197 22'33'44'66'-OcCB	38.11	1.92E+06	0.87 Y	0.93	0.89	-4.2%	
PCB-200 22'33'4566'-OcCB	38.21	1.75E+06	0.91 Y	0.86	0.81	-5.9%	
PCB-198/199 ...-OcCB	40.54	2.46E+06	0.90 Y	0.61	0.57	-6.3%	
PCB-196 22'33'44'56'-OcCB	41.10	1.29E+06	0.87 Y	0.62	0.60	-4.4%	
PCB-203 22'344'55'6'-OcCB	41.27	1.30E+06	0.90 Y	0.65	0.60	-7.6%	
PCB-195 22'33'44'56'-OcCB	42.39	1.06E+06	0.88 Y	0.81	0.76	-6.8%	
PCB-194 22'33'44'55'-OcCB	44.35	1.17E+06	0.89 Y	0.89	0.83	-5.9%	
PCB-205 233'44'55'6'-OcCB	44.74	1.49E+06	0.93 Y	1.11	1.06	-4.5%	
PCB-208 22'33'455'66'-NoCB	42.18	1.45E+06	0.76 Y	1.01	0.96	-5.3%	
PCB-207 22'33'44'566'-NoCB	42.96	1.48E+06	0.80 Y	1.06	0.98	-7.9%	
PCB-206 22'33'44'55'6'-NoCB	46.21	1.07E+06	0.80 Y	1.01	0.96	-4.9%	

SGS-AP ID: CS2\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 62

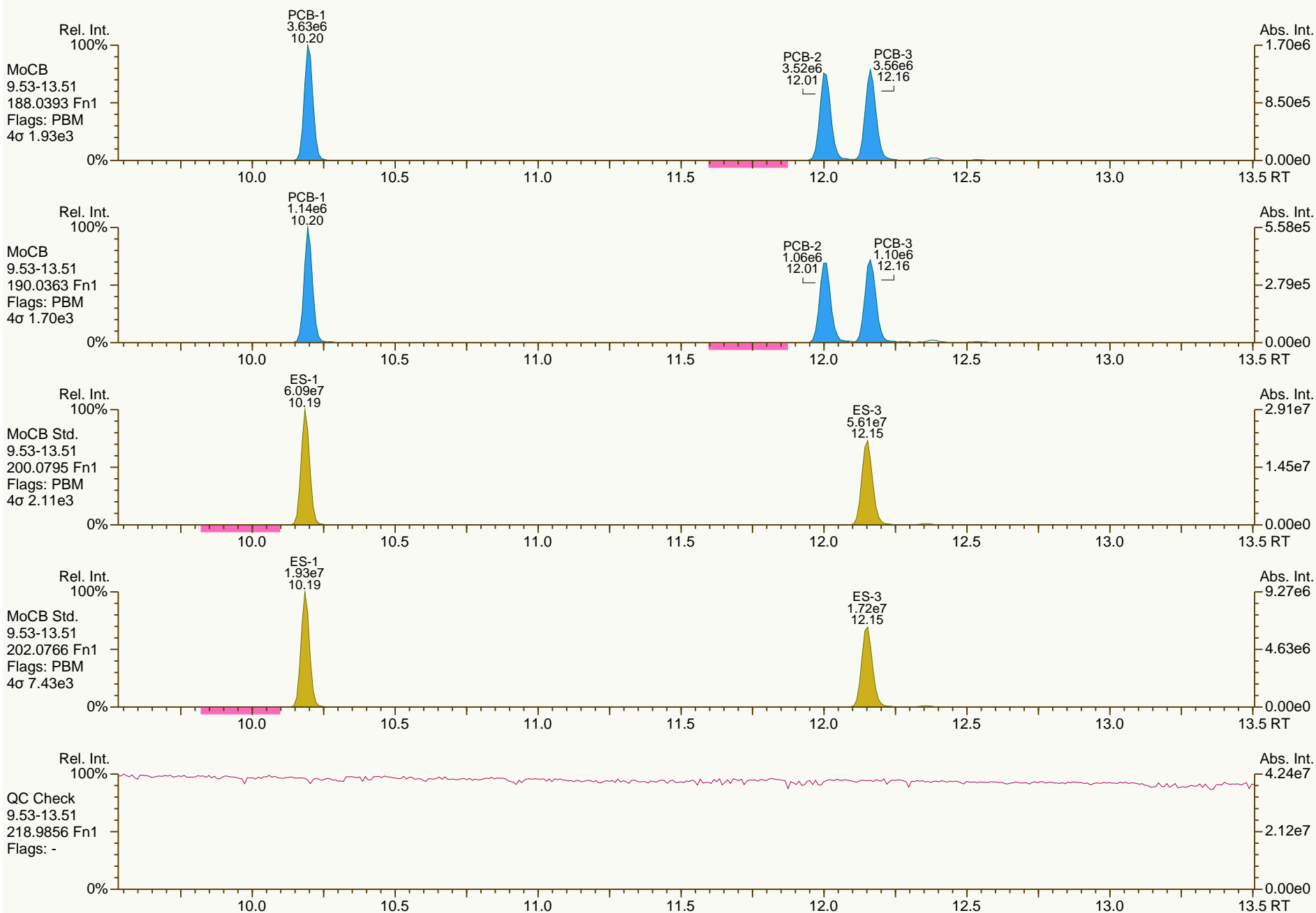
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Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 62

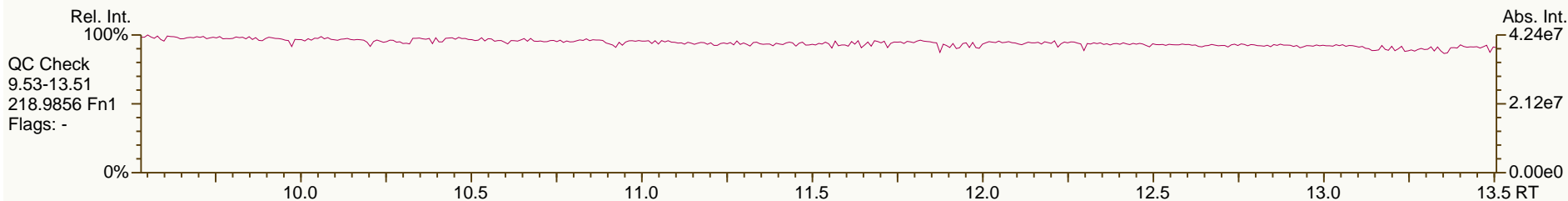
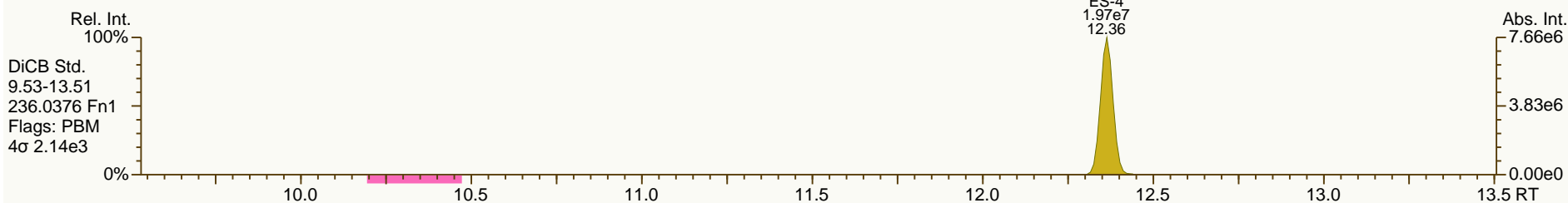
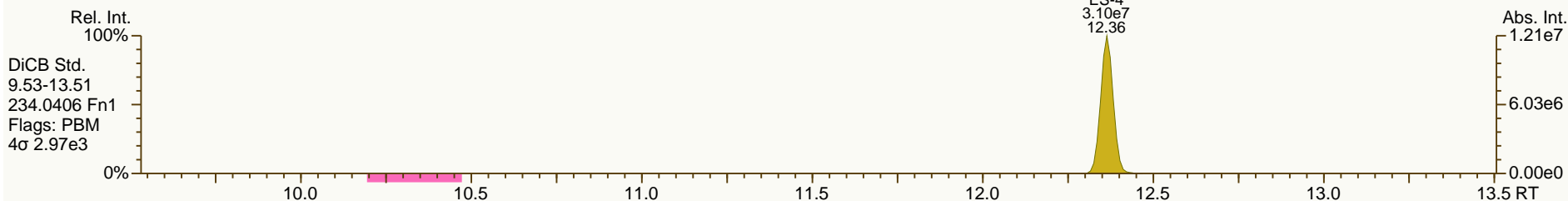
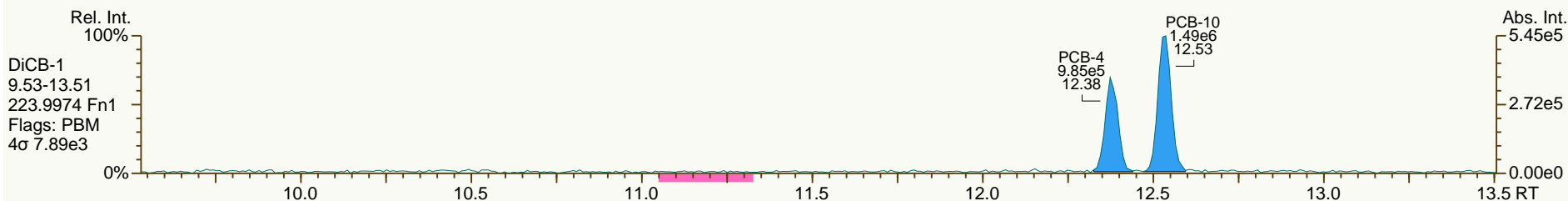
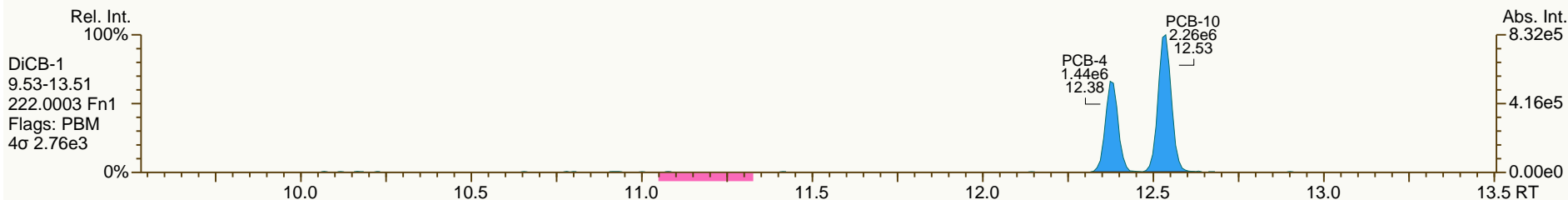
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SGS-AP ID: CS2\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 62

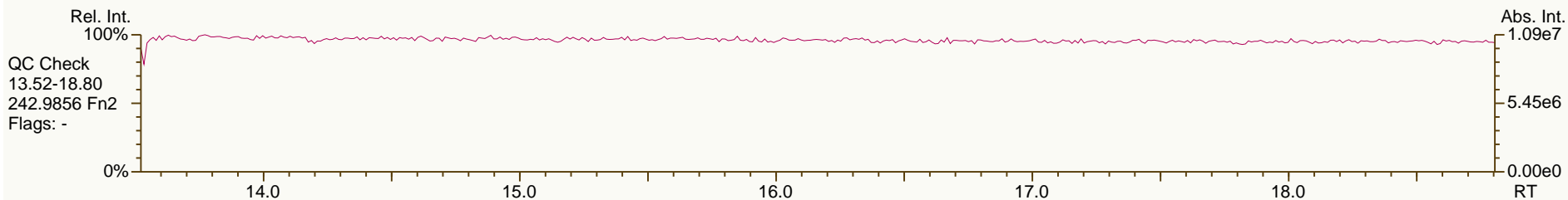
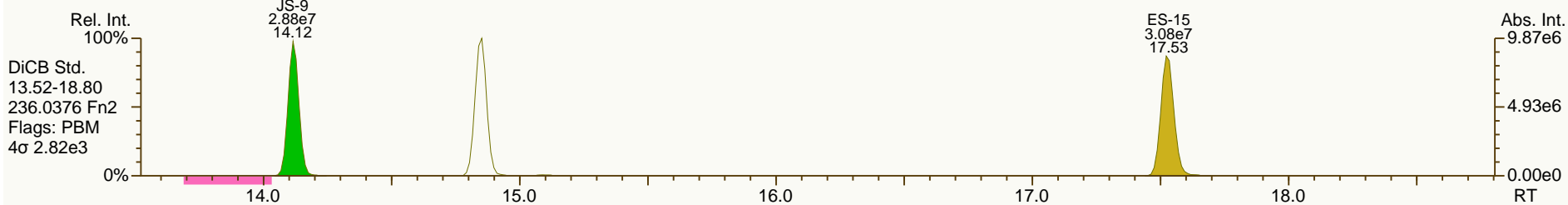
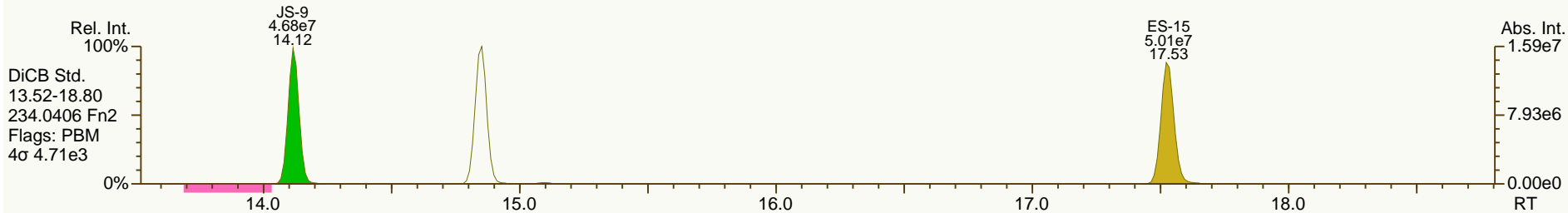
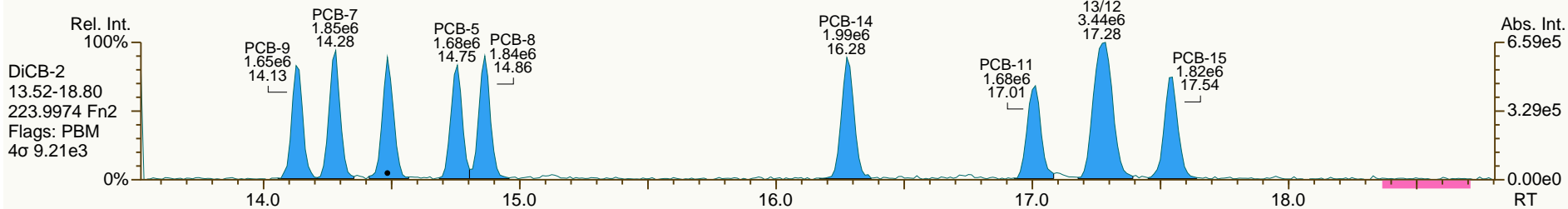
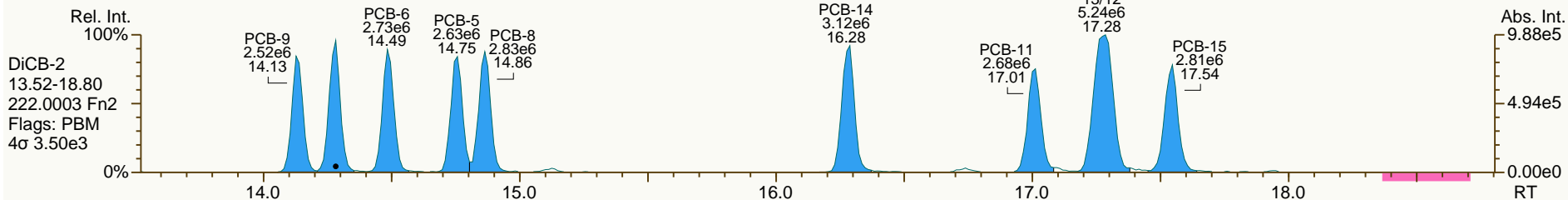
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SGS-AP ID: CS2\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
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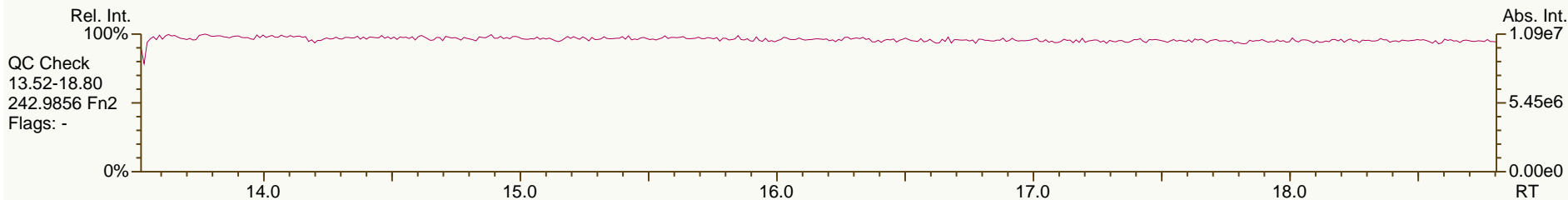
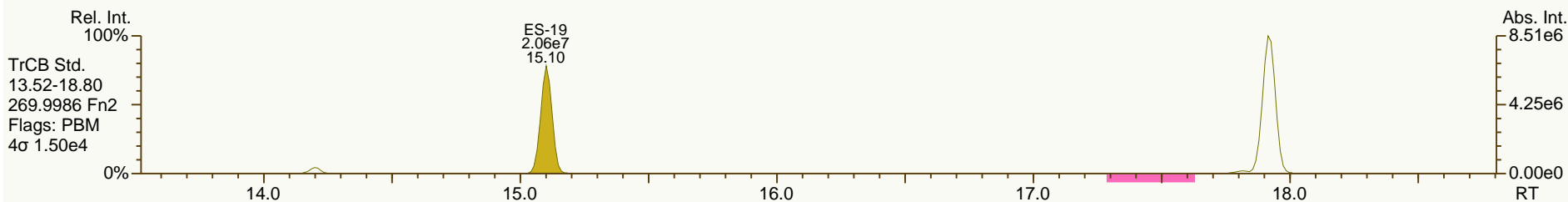
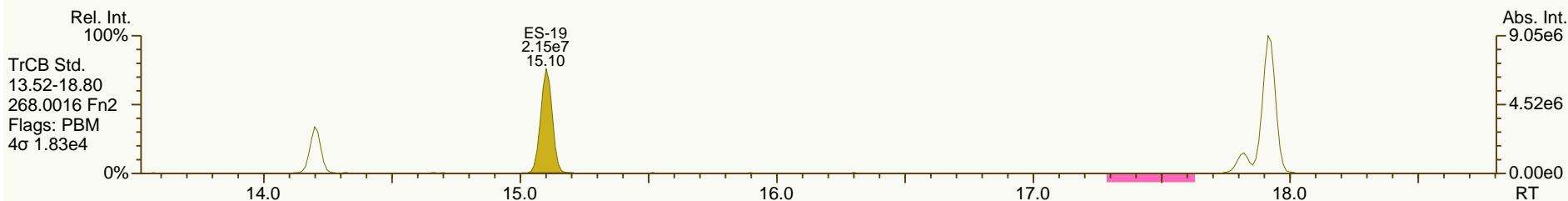
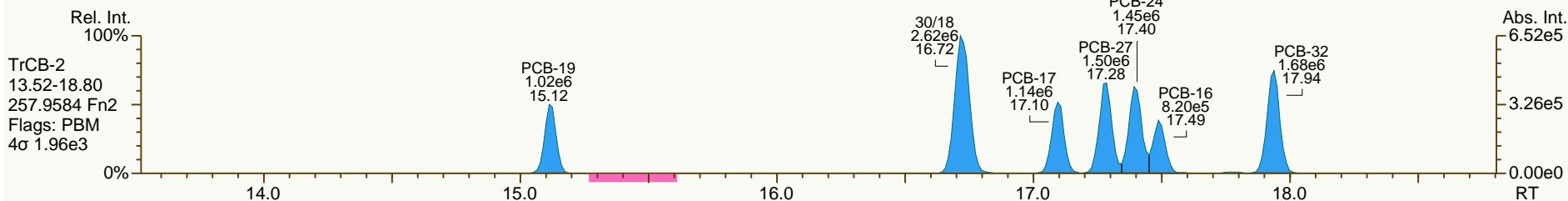
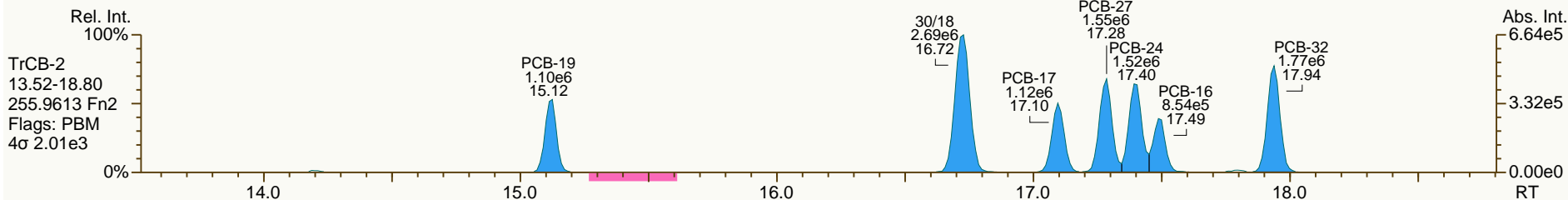
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SGS-AP ID: CS2\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 62

Acq: 05-Feb-2014 12:18:00  
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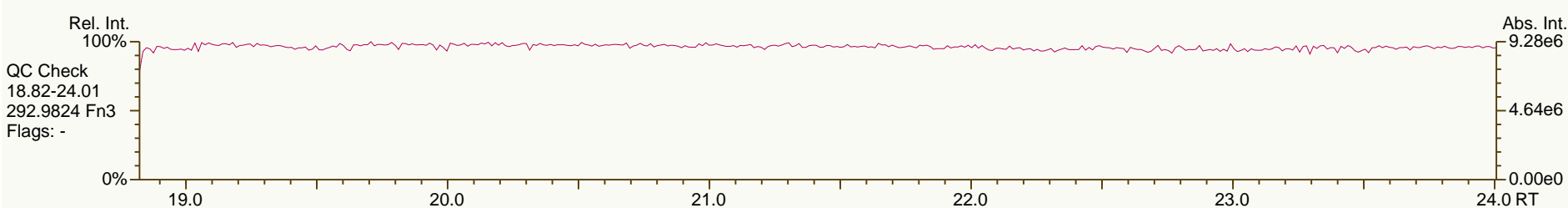
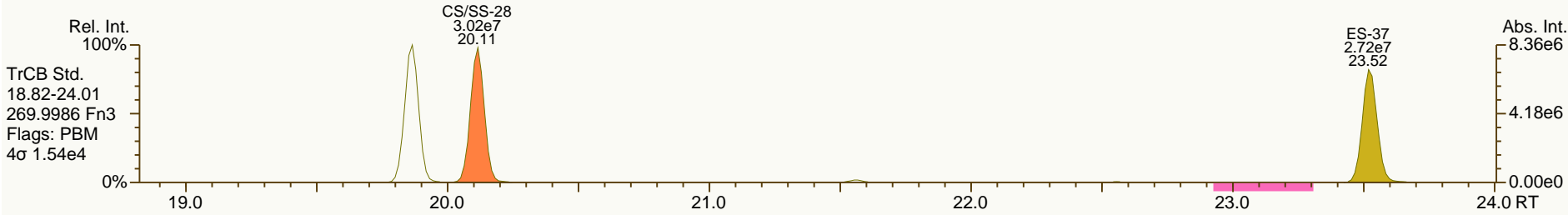
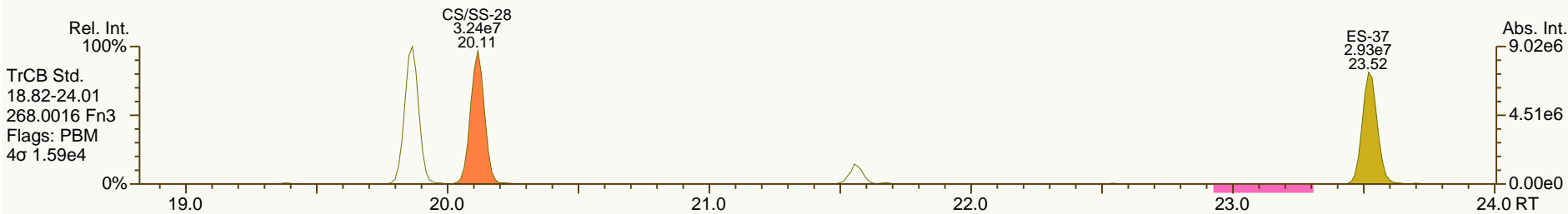
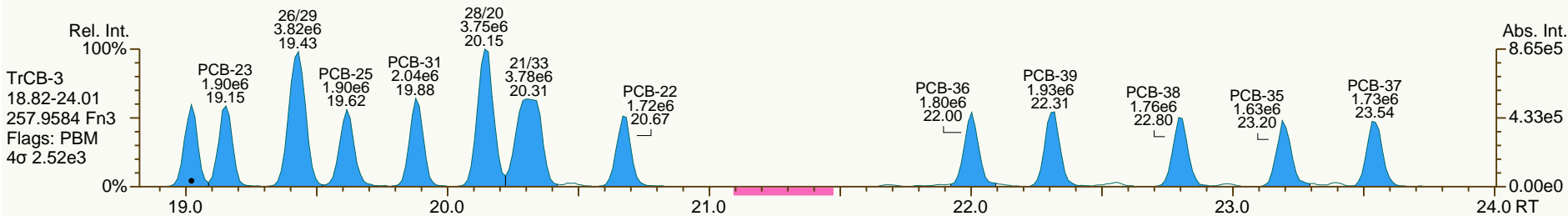
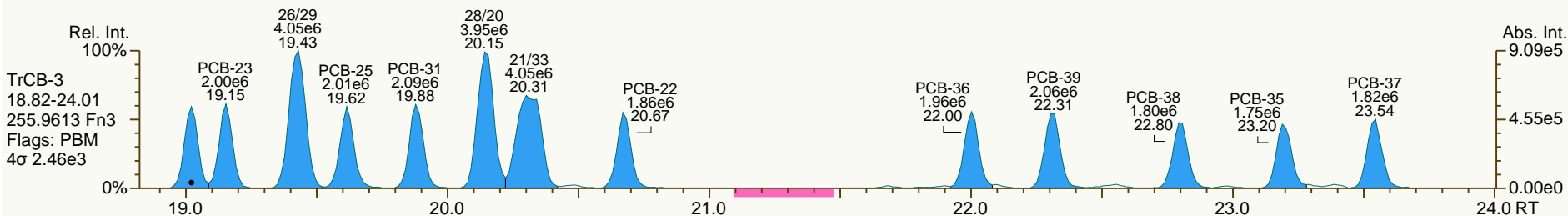




SGS-AP ID: CS2\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 62

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Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
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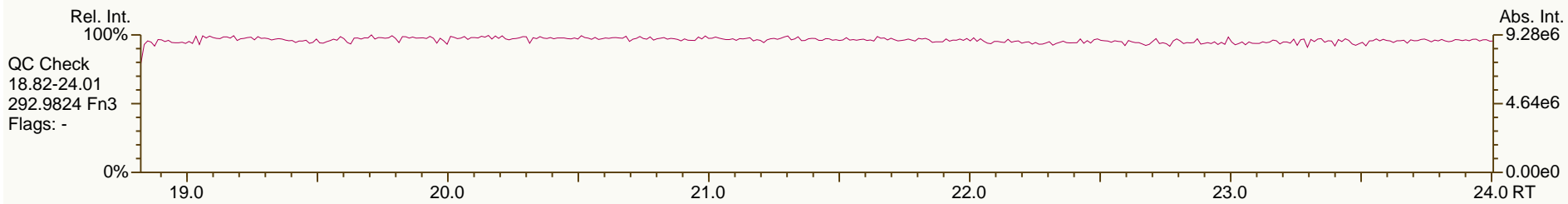
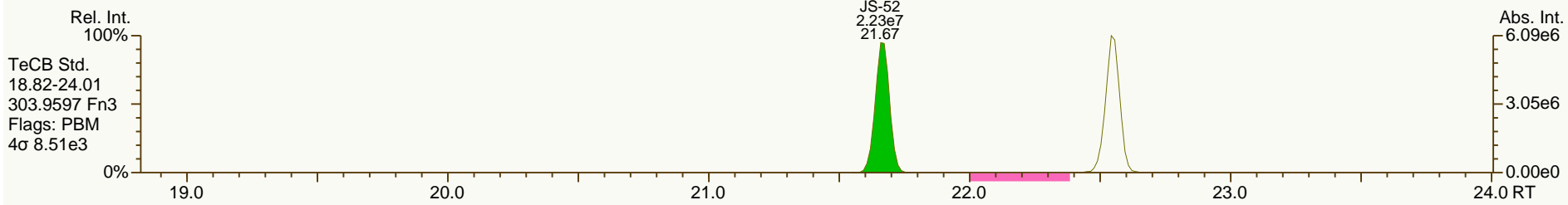
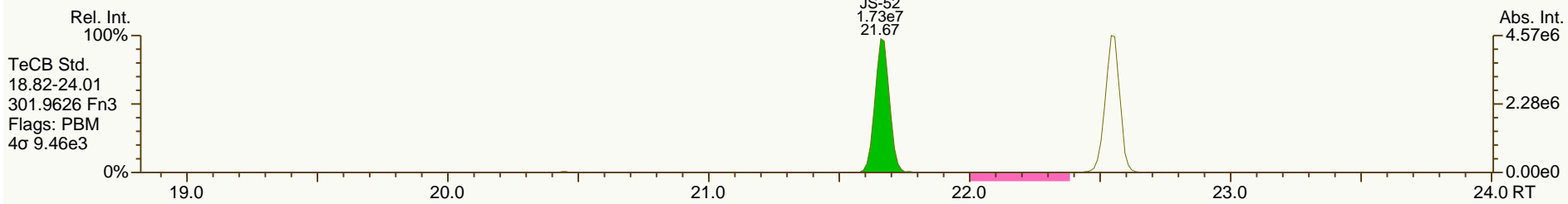
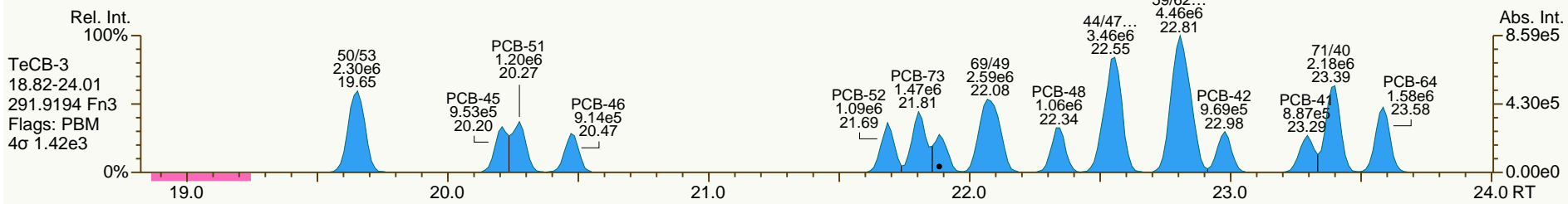
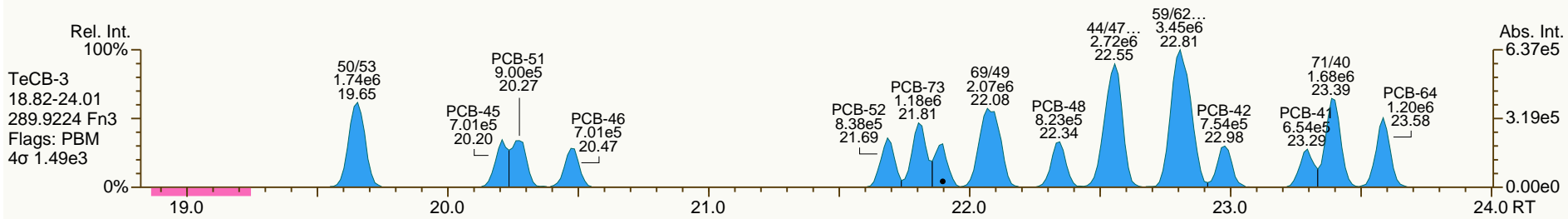
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SGS-AP ID: CS2\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
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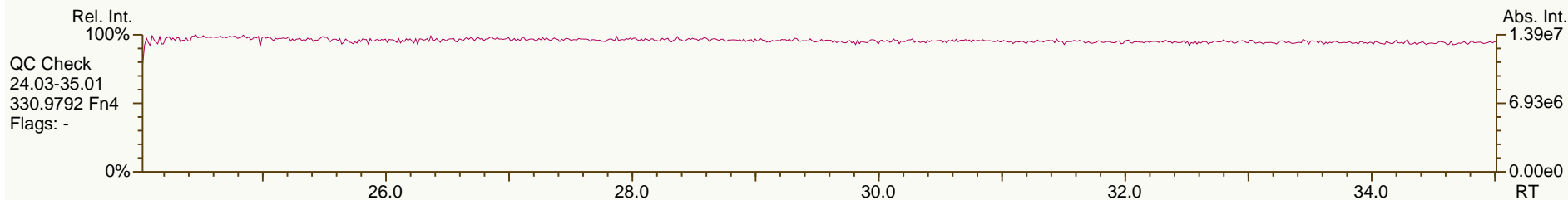
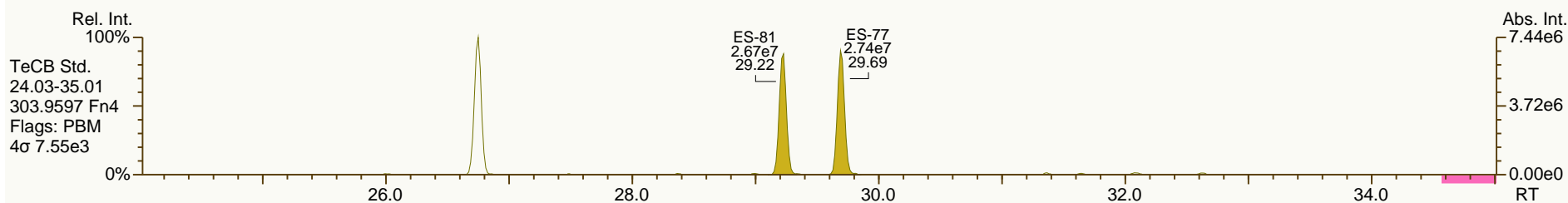
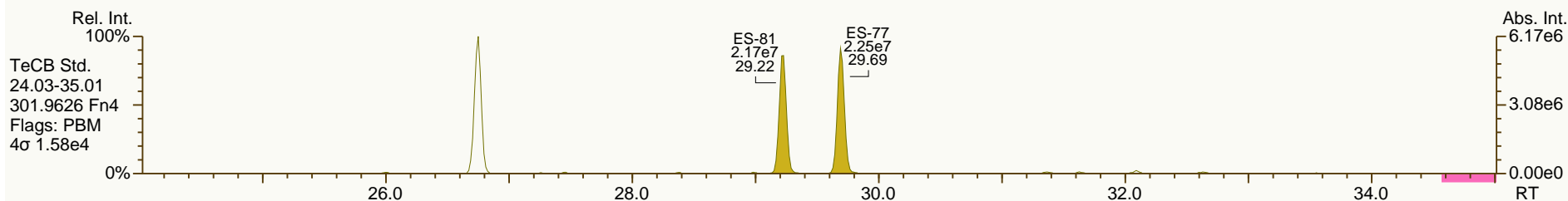
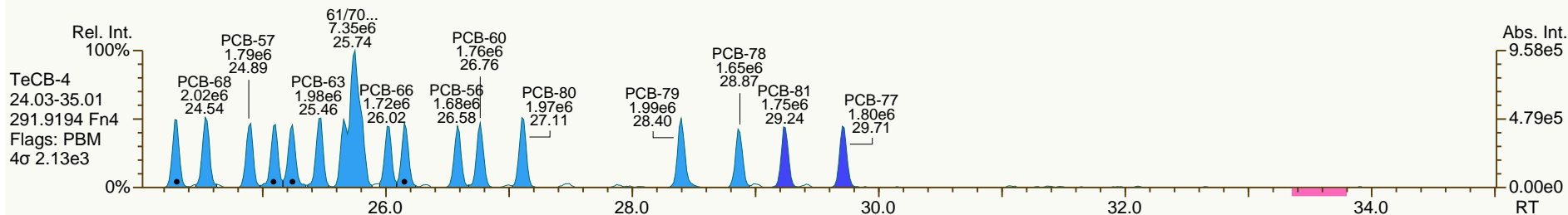
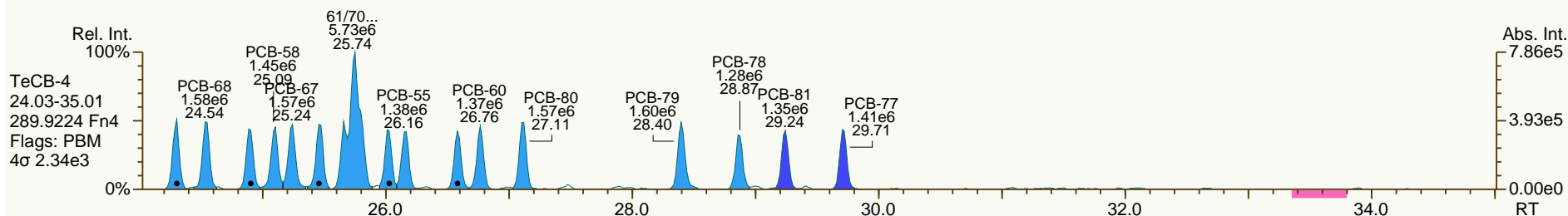
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SGS-AP ID: CS2\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

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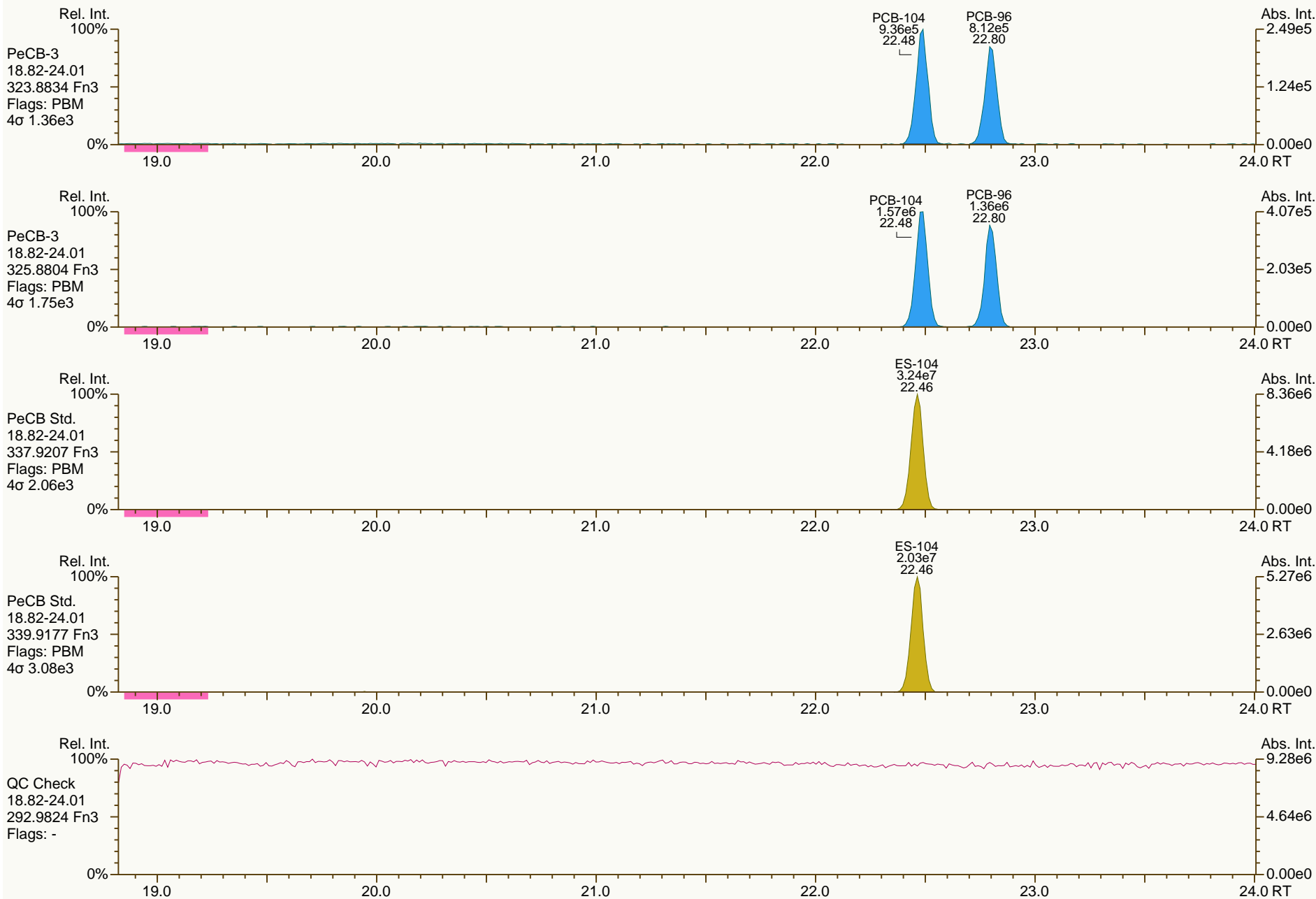
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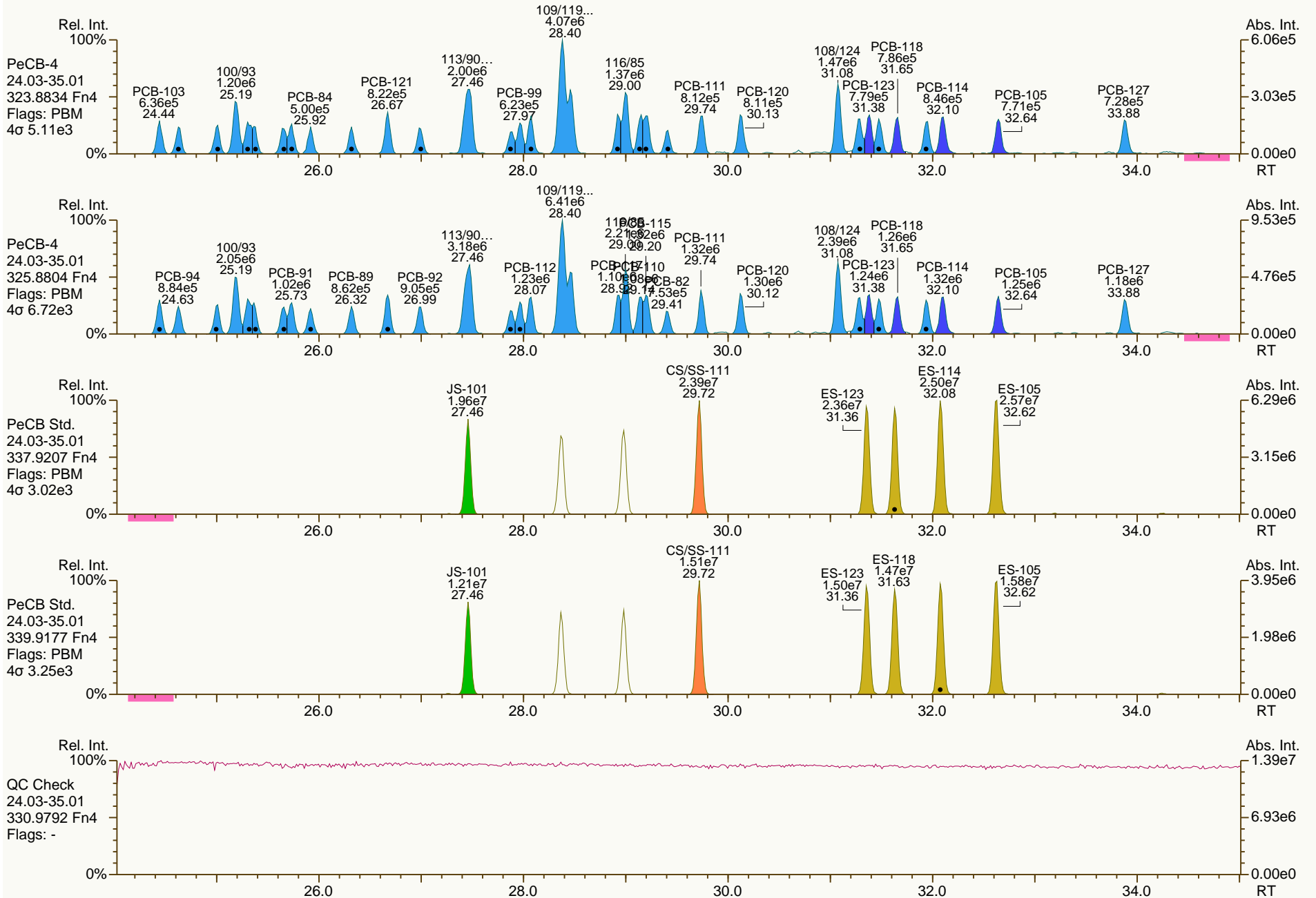
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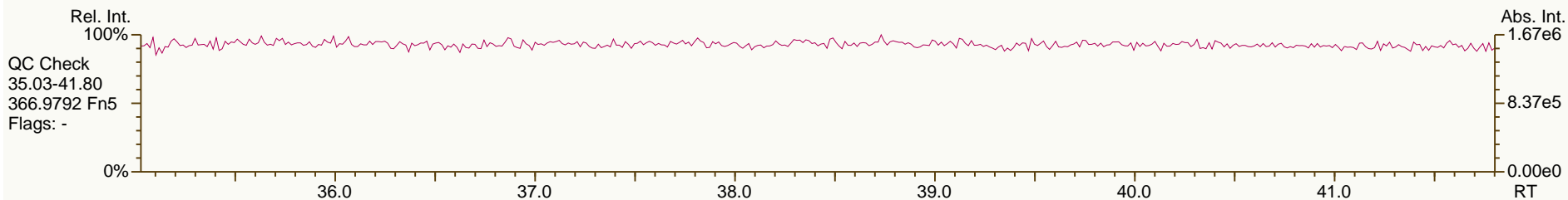
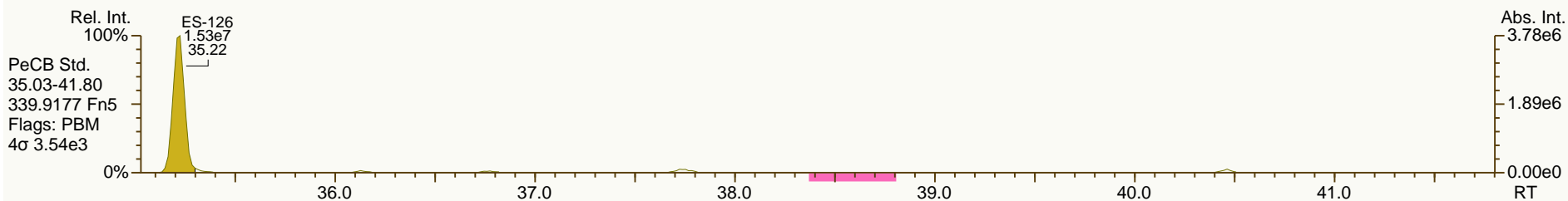
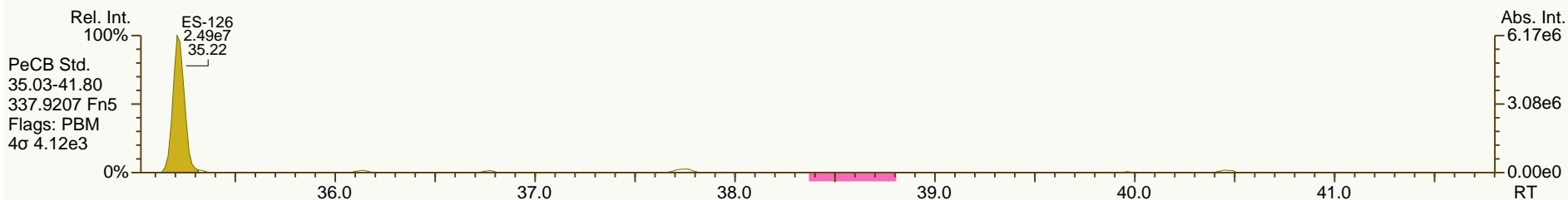
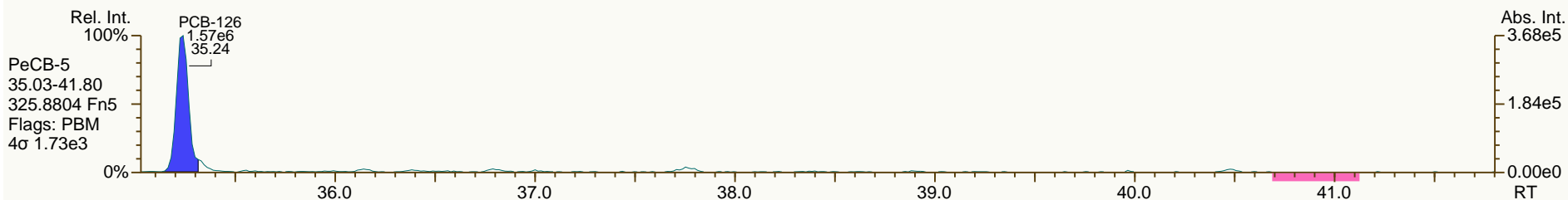
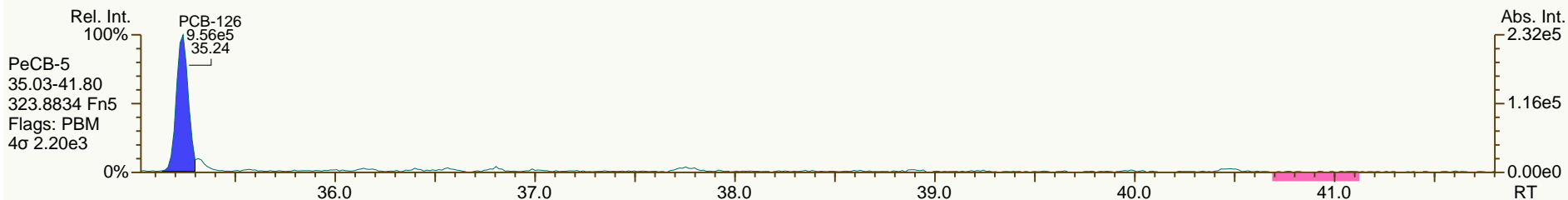
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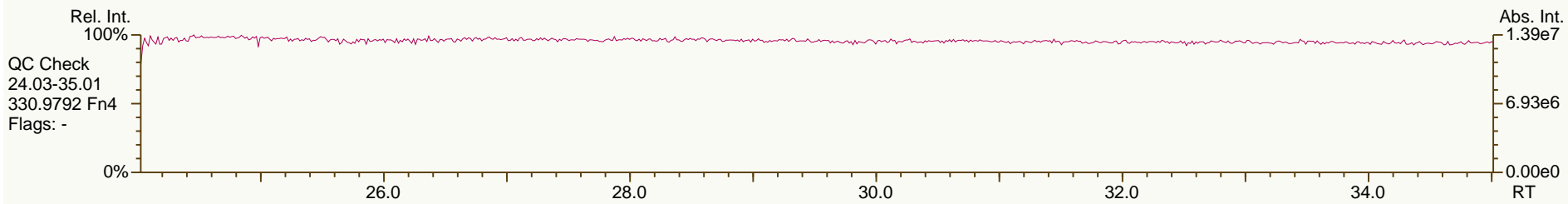
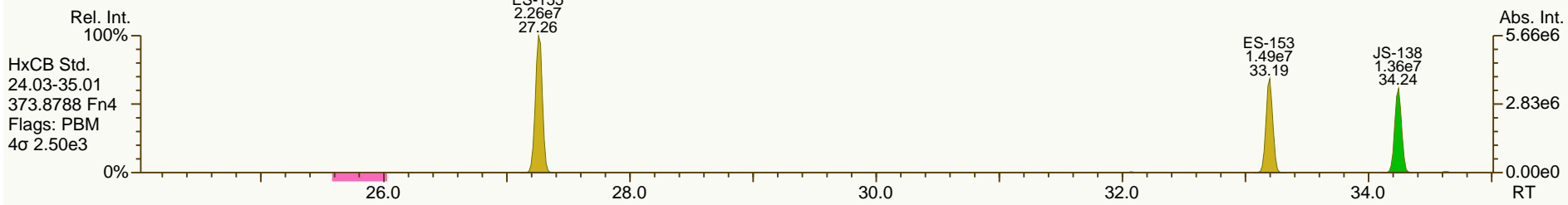
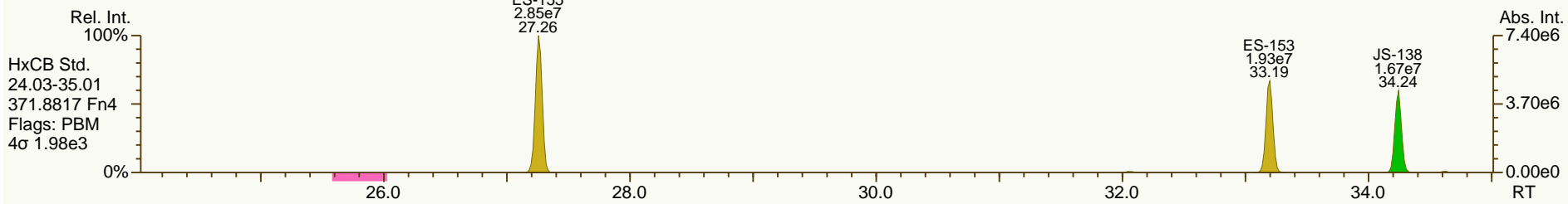
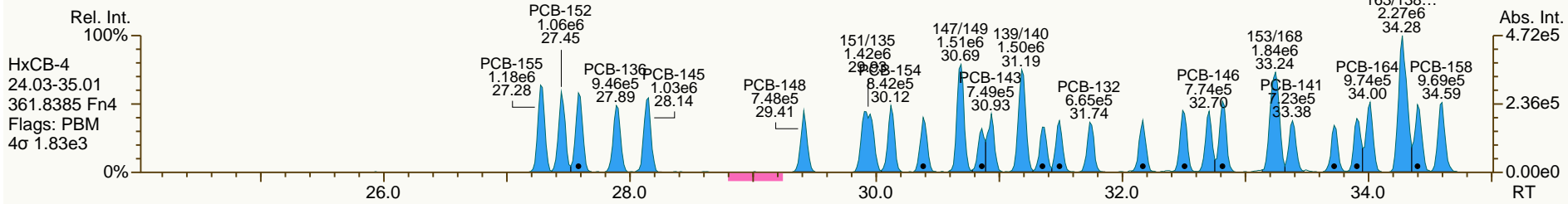
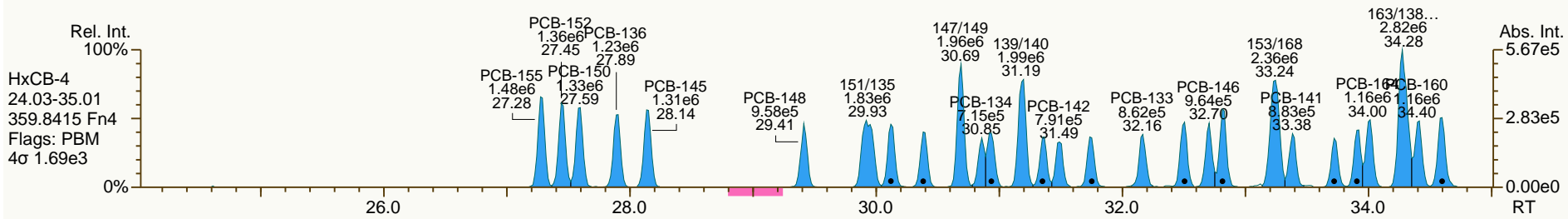
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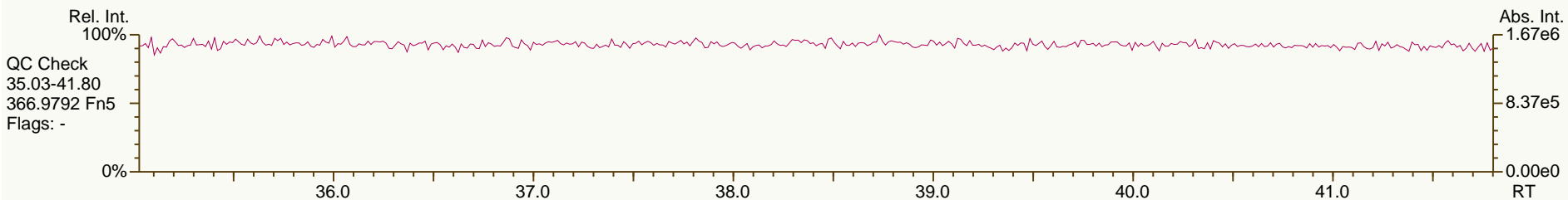
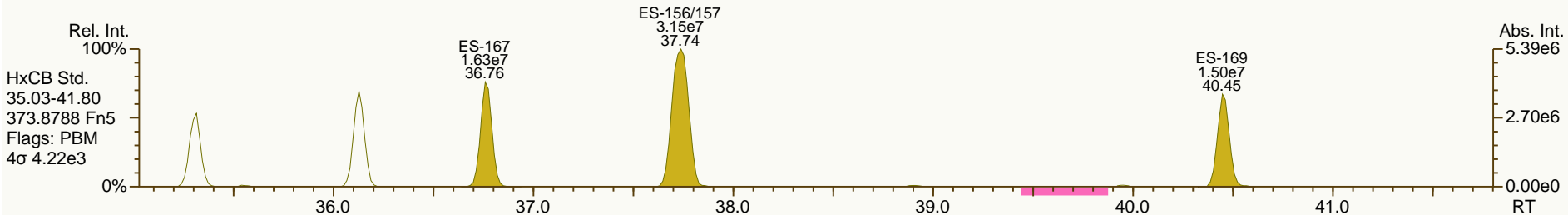
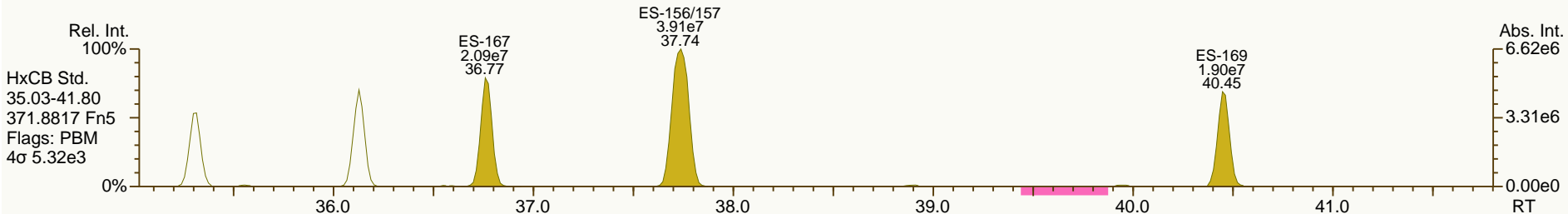
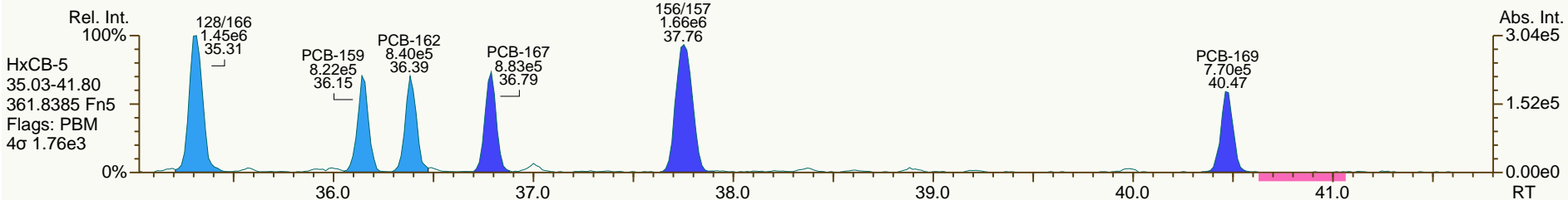
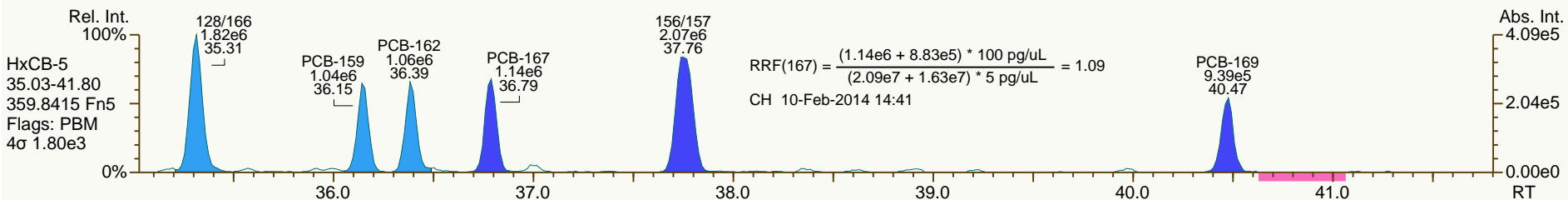




SGS-AP ID: CS2\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

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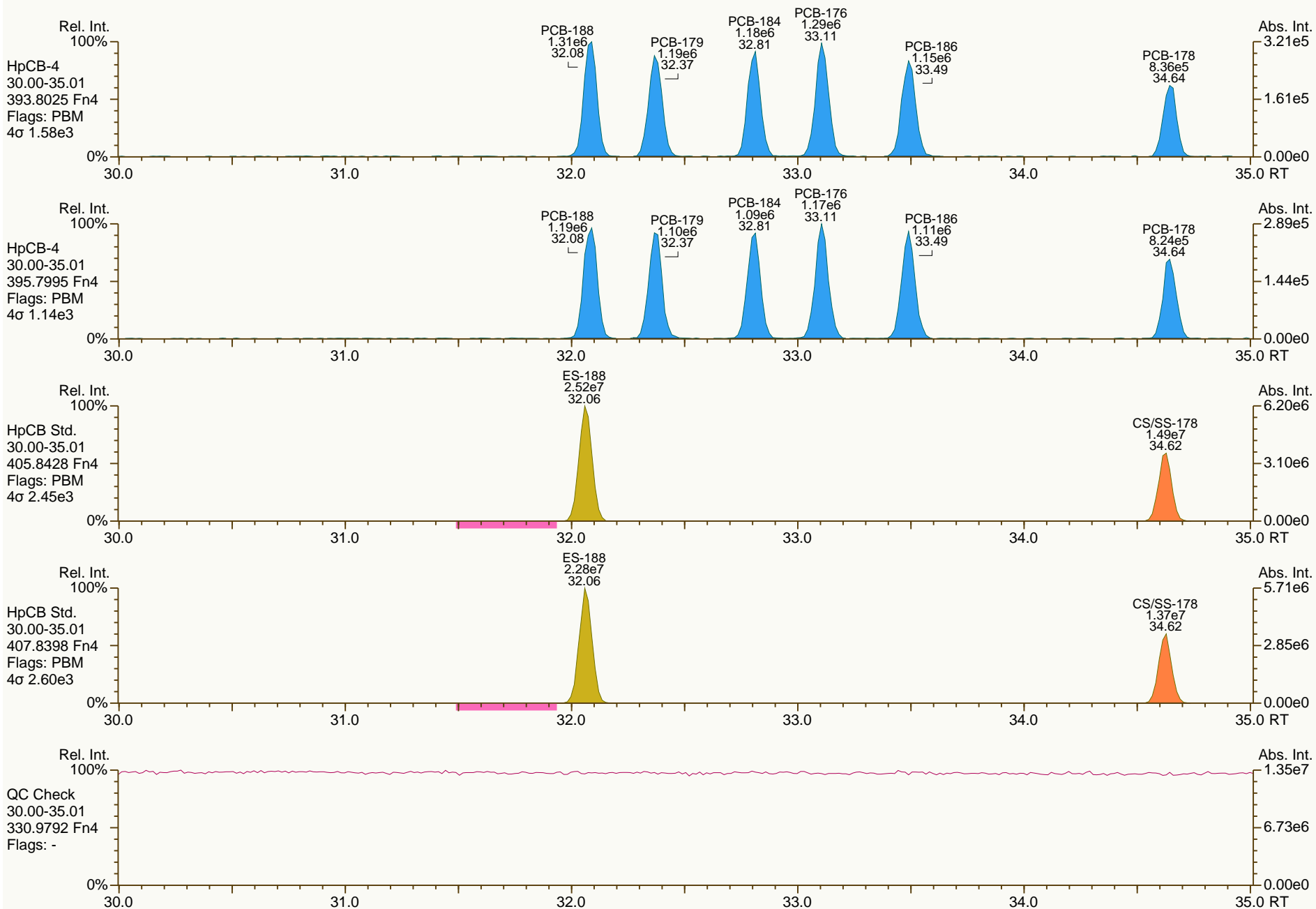
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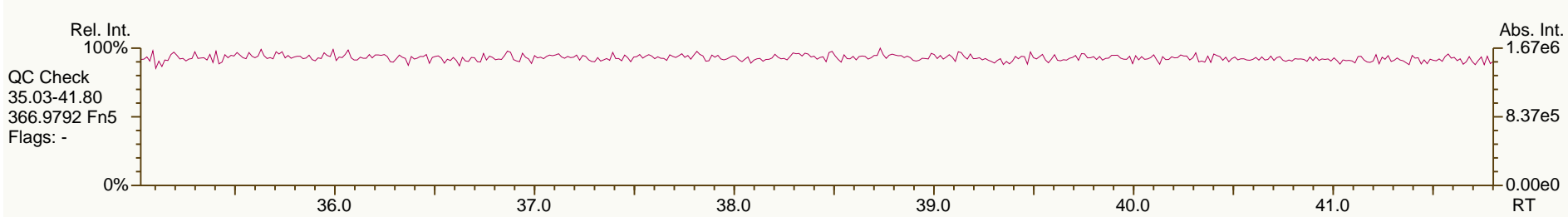
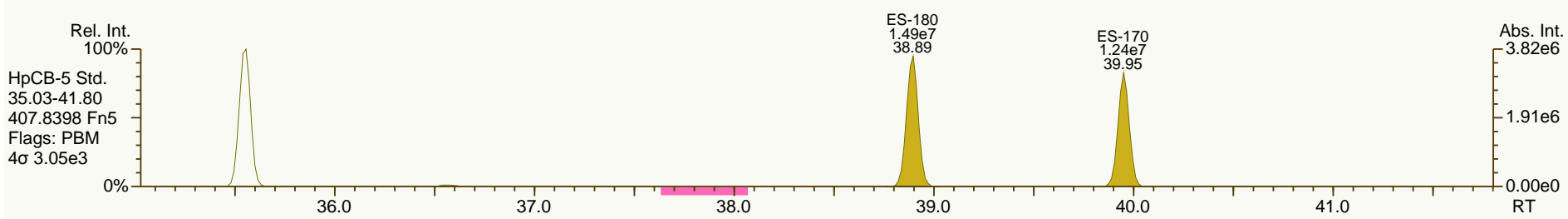
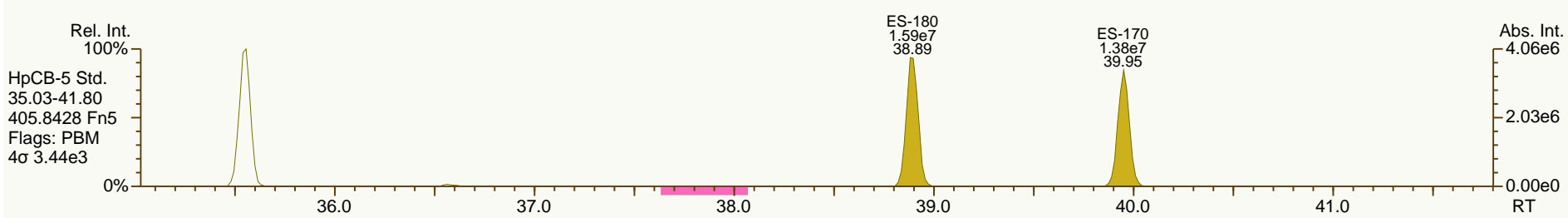
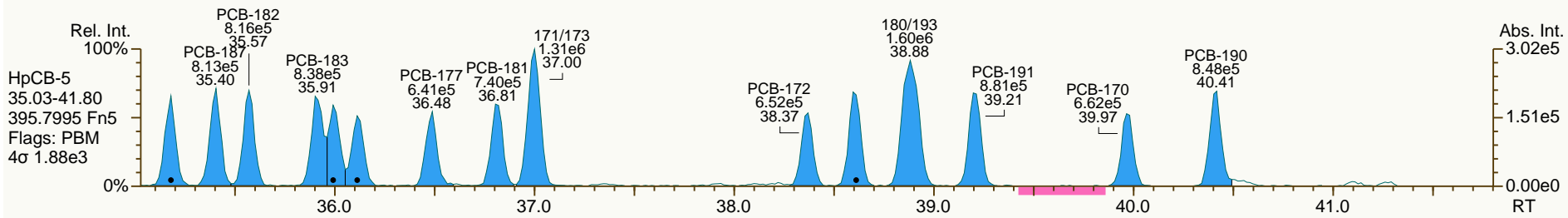
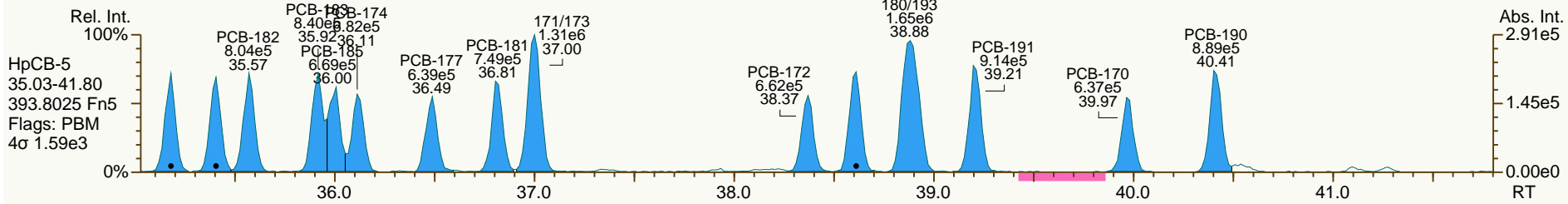
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SGS-AP ID: CS2\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-4  
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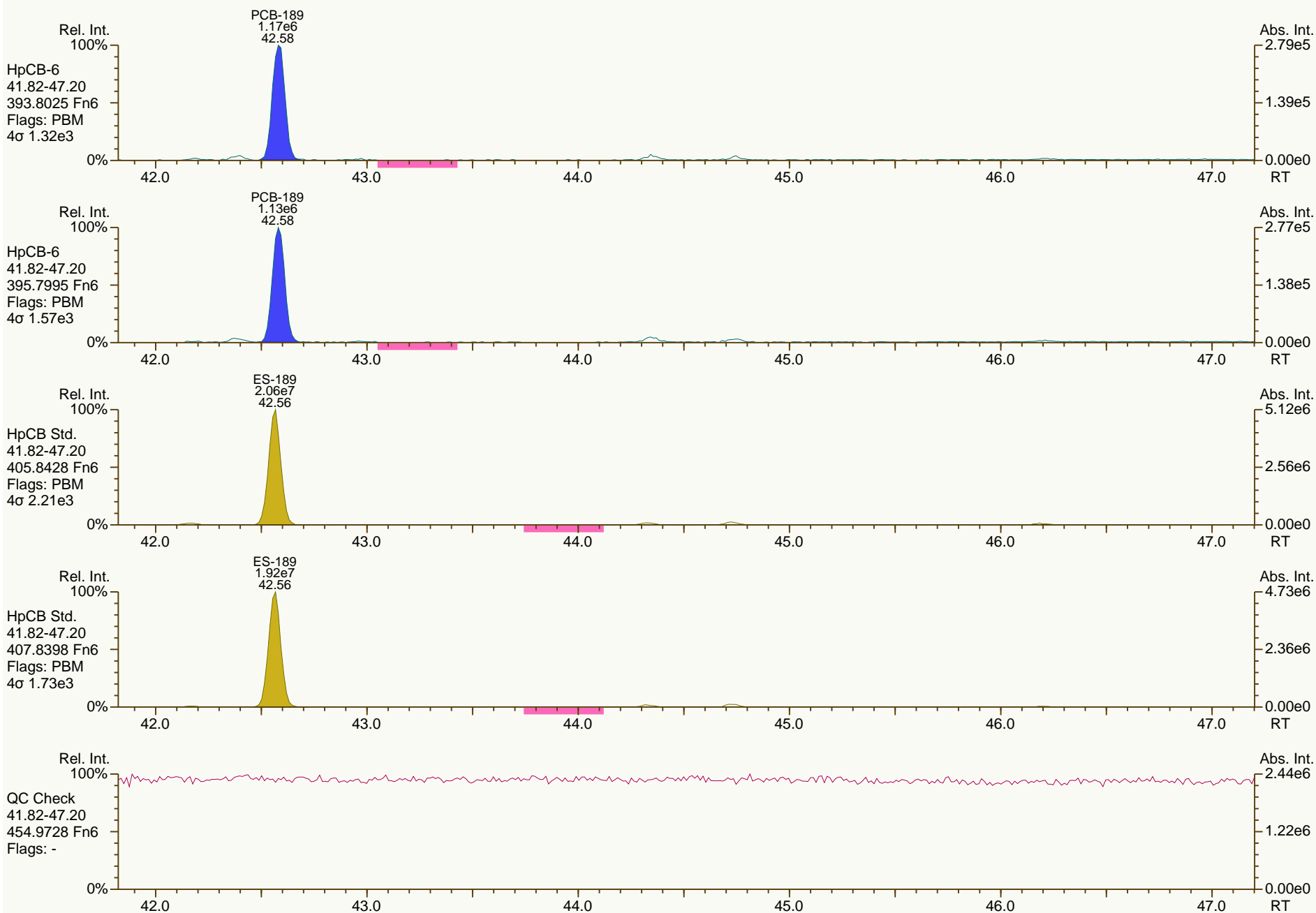
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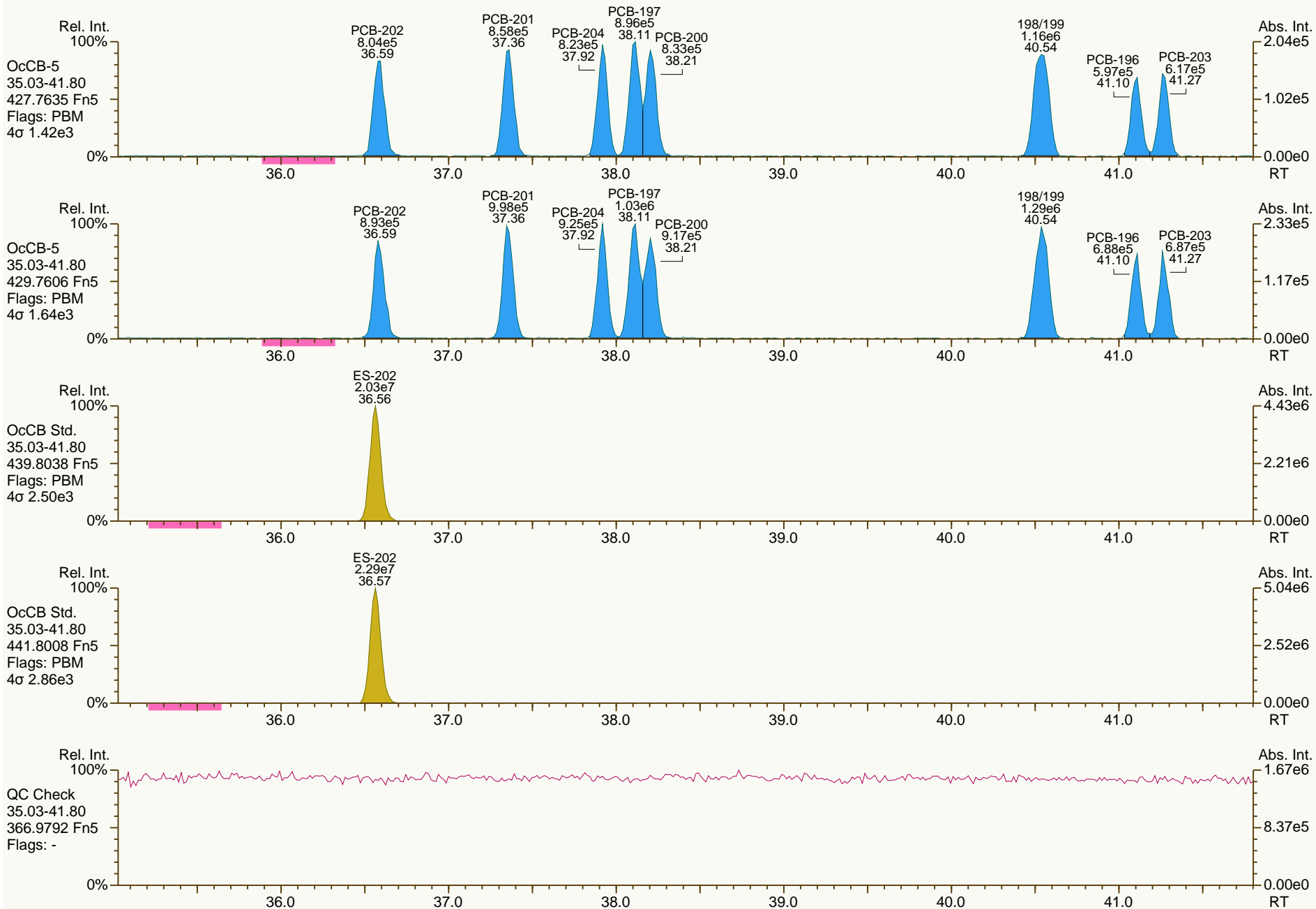
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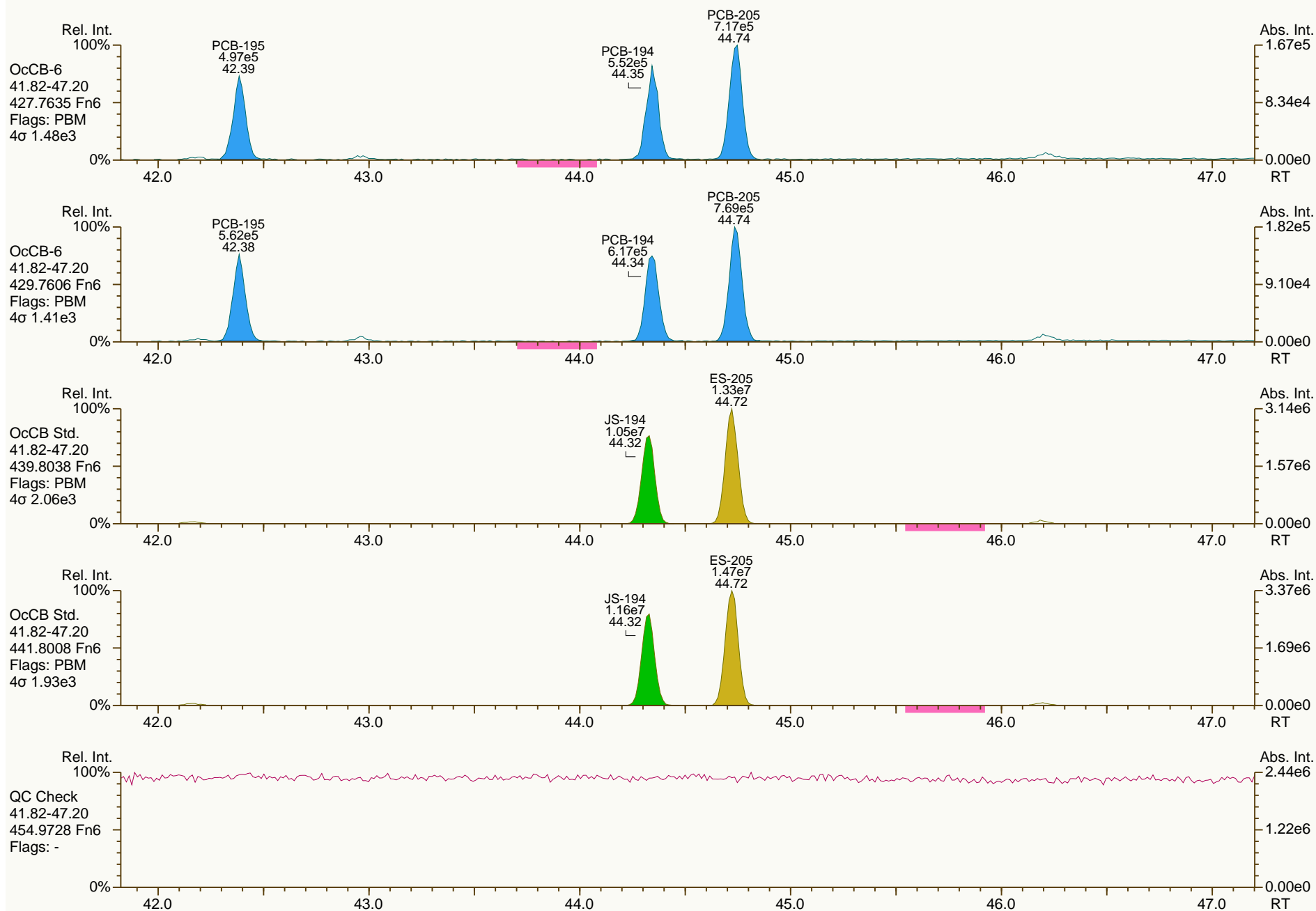
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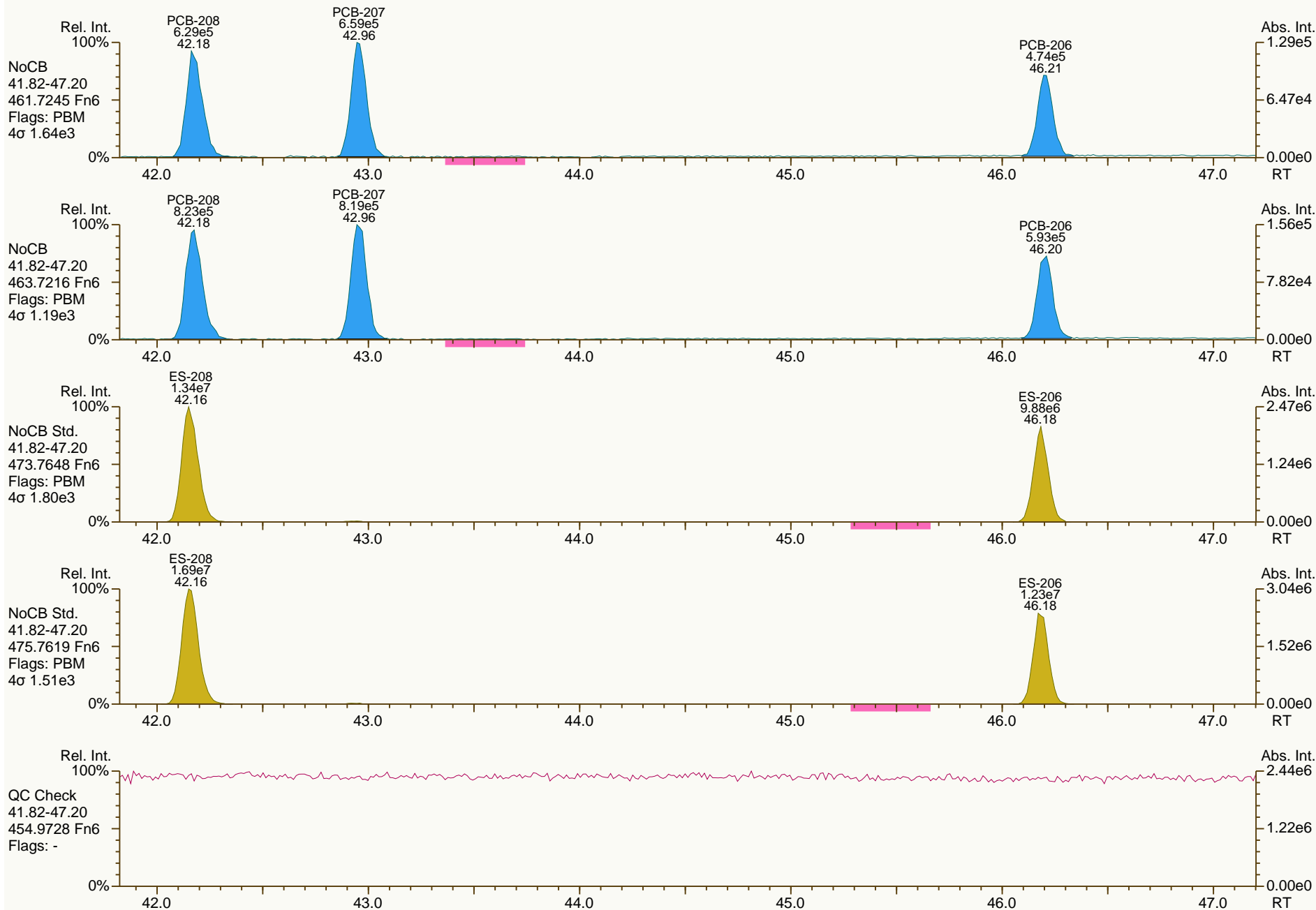
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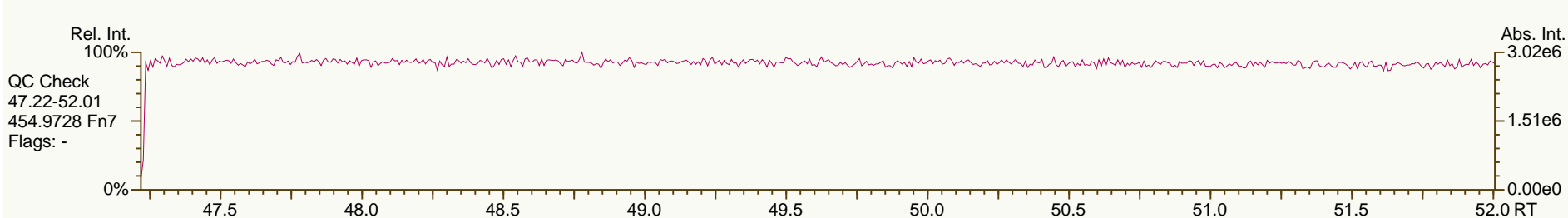
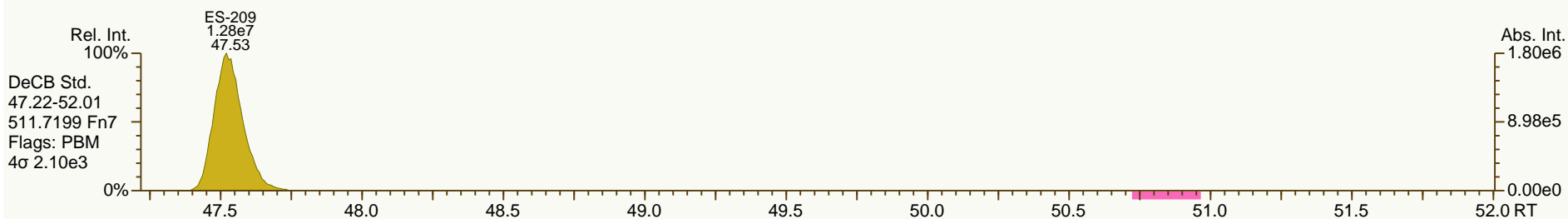
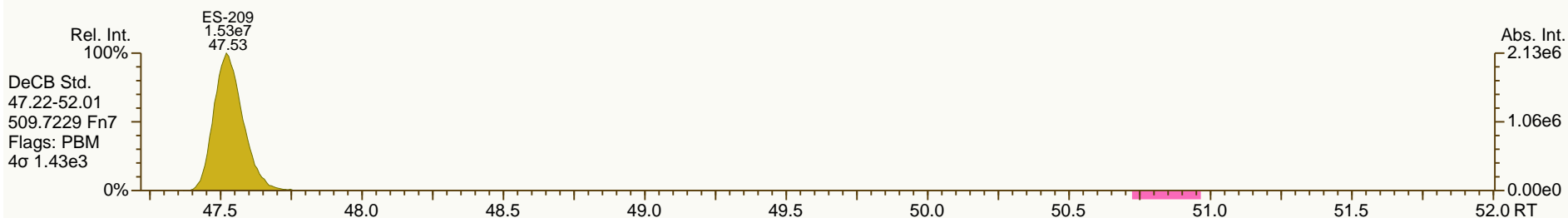
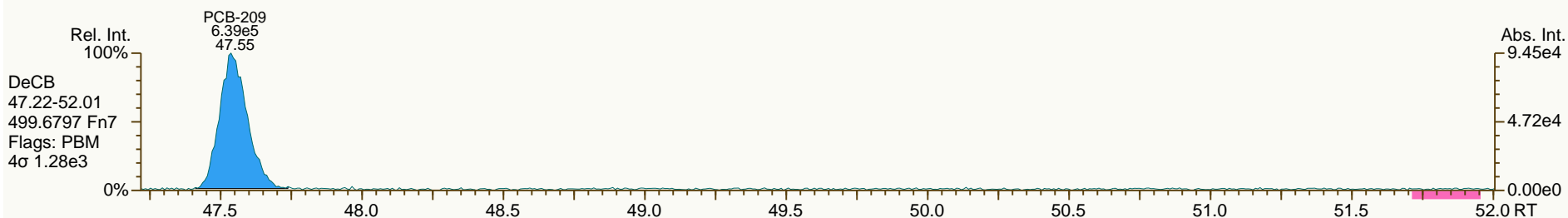
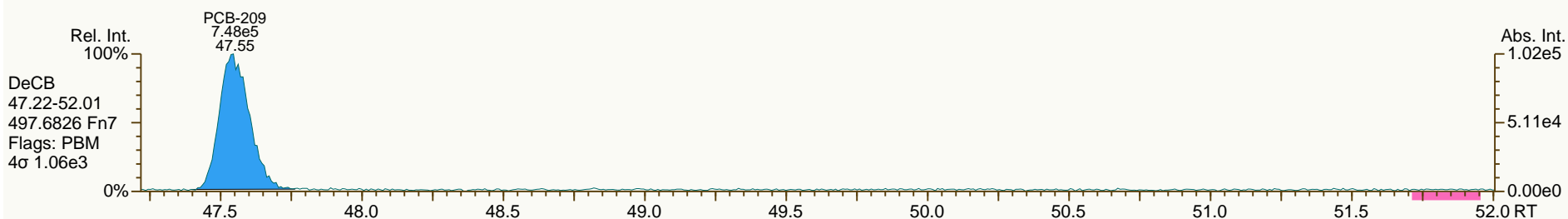
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SGS-AP ID: CS2\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-4  
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Acq: 05-Feb-2014 12:18:00  
User: CTW Datafile: 140205S04





PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:47		
Lab ID:	CS3_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 13:14						
Datafile:	140205S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.72	3.60E+07	0.78 Y	1.36	1.42	3.9%	
PCB-81 344'5'-TeCB	29.24	3.49E+07	0.78 Y	1.32	1.38	4.8%	
PCB-105 233'44'-PeCB	32.65	2.30E+07	0.63 Y	1.03	1.07	3.5%	
PCB-114 2344'5'-PeCB	32.11	2.39E+07	0.64 Y	1.13	1.17	3.0%	
PCB-118 23'44'5'-PeCB	31.66	2.25E+07	0.63 Y	1.13	1.16	3.0%	
PCB-123 23'44'5'-PeCB	31.39	2.42E+07	0.61 Y	1.11	1.24	11.1%	
PCB-126 33'44'5'-PeCB	35.25	2.91E+07	0.62 Y	1.33	1.40	4.9%	
PCB-156/157 ...-HxCB	37.76	4.08E+07	1.24 Y	1.09	1.14	4.3%	
PCB-167 23'44'55'-HxCB	36.79	2.22E+07	1.26 Y	1.15	1.20	4.0%	
PCB-169 33'44'55'-HxCB	40.48	2.00E+07	1.26 Y	1.10	1.14	3.5%	
PCB-189 233'44'55'-HpCB	42.59	2.54E+07	1.05 Y	1.21	1.23	1.4%	
PCB-209 DeCB	47.56	1.54E+07	1.17 Y	1.07	1.06	-0.8%	
ES PCB-1	10.19	8.30E+07	3.22 Y	1.05	1.05	-0.8%	
ES PCB-3	12.16	7.62E+07	3.30 Y	0.97	0.96	-1.0%	
ES PCB-4	12.37	5.12E+07	1.57 Y	0.66	0.65	-2.1%	
ES PCB-15	17.53	8.40E+07	1.63 Y	1.09	1.06	-2.5%	
ES PCB-19	15.11	4.32E+07	1.05 Y	0.55	0.54	-0.9%	
ES PCB-37	23.53	5.87E+07	1.09 Y	1.44	1.40	-3.0%	
ES PCB-54	17.77	5.85E+07	0.78 Y	1.42	1.39	-2.1%	
ES PCB-77	29.70	5.08E+07	0.83 Y	1.26	1.21	-3.8%	
ES PCB-81	29.23	5.06E+07	0.82 Y	1.27	1.21	-4.8%	
ES PCB-104	22.47	5.36E+07	1.59 Y	1.56	1.56	0.0%	
ES PCB-105	32.63	4.31E+07	1.58 Y	1.23	1.25	1.5%	
ES PCB-114	32.09	4.09E+07	1.63 Y	1.20	1.19	-1.1%	
ES PCB-118	31.64	3.87E+07	1.58 Y	1.13	1.12	-0.6%	
ES PCB-123	31.36	3.91E+07	1.55 Y	1.16	1.14	-2.4%	
ES PCB-126	35.23	4.18E+07	1.65 Y	1.22	1.21	-0.6%	
ES PCB-153	33.20	3.59E+07	1.30 Y	1.10	1.10	-0.1%	
ES PCB-155	27.27	5.11E+07	1.30 Y	1.60	1.57	-2.1%	
ES PCB-156/157	37.74	7.17E+07	1.26 Y	1.14	1.10	-3.1%	
ES PCB-167	36.77	3.71E+07	1.25 Y	1.17	1.14	-2.5%	
ES PCB-169	40.46	3.51E+07	1.26 Y	1.11	1.08	-2.4%	
ES PCB-170	39.96	2.73E+07	1.05 Y	1.18	1.18	-0.1%	
ES PCB-180	38.90	3.21E+07	1.06 Y	1.44	1.39	-3.3%	
ES PCB-188	32.07	4.93E+07	1.07 Y	1.52	1.51	-0.5%	
ES PCB-189	42.57	4.14E+07	1.06 Y	1.80	1.79	-0.5%	
ES PCB-202	36.57	4.48E+07	0.89 Y	1.39	1.38	-0.8%	
ES PCB-205	44.73	2.90E+07	0.89 Y	1.26	1.26	-0.1%	
ES PCB-206	46.19	2.30E+07	0.78 Y	1.00	0.99	-0.2%	
ES PCB-208	42.16	3.17E+07	0.78 Y	1.38	1.37	-0.5%	
ES PCB-209	47.54	2.91E+07	1.20 Y	1.26	1.26	-0.2%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:47		
Lab ID:	CS3_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 13:14						
Datafile:	140205S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	20.12	6.56E+07	1.08 Y	1.10	1.12	1.6%	
SS PCB-111	29.72	4.14E+07	1.58 Y	1.03	1.06	2.9%	
SS PCB-178	34.63	3.02E+07	1.07 Y	0.62	0.61	-1.1%	
CS PCB-28	20.12	6.56E+07	1.08 Y	1.59	1.56	-1.4%	
CS PCB-111	29.72	4.14E+07	1.58 Y	1.20	1.20	0.4%	
CS PCB-178	34.63	3.02E+07	1.07 Y	0.94	0.93	-1.5%	
JS PCB-9	14.12	7.93E+07	1.61 Y	-	-	-	
JS PCB-52	21.67	4.20E+07	0.76 Y	-	-	-	
JS PCB-101	27.46	3.44E+07	1.59 Y	-	-	-	
JS PCB-138	34.25	3.26E+07	1.29 Y	-	-	-	
JS PCB-194	44.33	2.31E+07	0.89 Y	-	-	-	
PCB-1 2-MoCB	10.20	5.15E+07	3.18 Y	1.21	1.24	2.2%	
PCB-3 4-MoCB	12.17	5.00E+07	3.20 Y	1.30	1.31	1.4%	
PCB-4 22'-DiCB	12.38	2.59E+07	1.53 Y	0.98	1.01	2.9%	
PCB-15 44'-DiCB	17.55	5.17E+07	1.56 Y	1.19	1.23	3.7%	
PCB-19 22'6'-TrCB	15.12	2.33E+07	1.05 Y	1.05	1.08	2.9%	
PCB-37 344'-TrCB	23.55	4.01E+07	1.08 Y	1.32	1.37	3.2%	
PCB-54 22'66'-TeCB	17.79	3.07E+07	0.81 Y	1.02	1.05	3.3%	
PCB-104 22'466'-PeCB	22.49	2.81E+07	0.62 Y	1.02	1.05	2.8%	
PCB-155 22'44'66'-HxCB	27.29	2.92E+07	1.26 Y	1.11	1.14	3.4%	
PCB-188 22'34'566'-HpCB	32.09	2.76E+07	1.08 Y	1.10	1.12	2.0%	
PCB-202 22'33'55'66'-OcCB	36.59	1.83E+07	0.89 Y	0.83	0.82	-1.4%	
PCB-205 233'44'55'6'-OcCB	44.75	1.66E+07	0.90 Y	1.11	1.14	2.6%	
PCB-208 22'33'455'66'-NoCB	42.19	1.61E+07	0.78 Y	1.01	1.02	0.7%	
PCB-206 22'33'44'55'6'-NoCB	46.21	1.17E+07	0.79 Y	1.01	1.02	0.5%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:47			
Lab ID:	CS3_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 13:14						
Datafile:	140205S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	10.20	5.15E+07	3.18 Y	1.21	1.24	2.2%	
PCB-2 3-MoCB	12.01	5.01E+07	3.24 Y	1.29	1.32	2.3%	
PCB-3 4-MoCB	12.17	5.00E+07	3.20 Y	1.30	1.31	1.4%	
PCB-4 22'-DiCB	12.38	2.59E+07	1.53 Y	0.98	1.01	2.9%	
PCB-10 26'-DiCB	12.54	4.05E+07	1.54 Y	1.53	1.58	3.1%	
PCB-9 25'-DiCB	14.14	4.50E+07	1.56 Y	1.04	1.07	3.4%	
PCB-7 24'-DiCB	14.28	5.23E+07	1.57 Y	1.18	1.25	5.3%	
PCB-6 23'-DiCB	14.49	4.79E+07	1.55 Y	1.11	1.14	3.0%	
PCB-5 23'-DiCB	14.76	4.79E+07	1.56 Y	1.10	1.14	3.5%	
PCB-8 24'-DiCB	14.87	4.96E+07	1.54 Y	1.13	1.18	4.2%	
PCB-14 35'-DiCB	16.29	5.66E+07	1.58 Y	1.28	1.35	5.1%	
PCB-11 33'-DiCB	17.01	4.88E+07	1.57 Y	1.10	1.16	5.2%	
PCB-13/12 34'/34'-DiCB	17.28	9.84E+07	1.57 Y	1.11	1.17	5.0%	
PCB-15 44'-DiCB	17.55	5.17E+07	1.56 Y	1.19	1.23	3.7%	
PCB-19 22'6'-TrCB	15.12	2.33E+07	1.05 Y	1.05	1.08	2.9%	
PCB-30/18 246/22'5'-TrCB	16.73	5.88E+07	1.04 Y	1.33	1.36	2.6%	
PCB-17 22'4'-TrCB	17.10	2.51E+07	1.05 Y	1.15	1.16	0.7%	
PCB-27 23'6'-TrCB	17.29	3.45E+07	1.02 Y	1.56	1.60	2.2%	
PCB-24 236'-TrCB	17.40	3.25E+07	1.05 Y	1.50	1.51	0.8%	
PCB-16 22'3'-TrCB	17.49	1.93E+07	1.03 Y	0.88	0.90	2.0%	
PCB-32 24'6'-TrCB	17.94	3.81E+07	1.02 Y	1.74	1.77	1.7%	
PCB-34 23'5'-TrCB	19.03	4.06E+07	1.06 Y	1.33	1.38	4.0%	
PCB-23 235'-TrCB	19.16	4.26E+07	1.08 Y	1.40	1.45	3.9%	
PCB-26/29 23'5'/245'-TrCB	19.43	8.54E+07	1.07 Y	1.41	1.46	3.2%	
PCB-25 23'4'-TrCB	19.62	4.31E+07	1.06 Y	1.41	1.47	4.3%	
PCB-31 24'5'-TrCB	19.89	4.47E+07	1.07 Y	1.46	1.52	4.2%	
PCB-28/20 244'/233'-TrCB	20.15	8.36E+07	1.08 Y	1.39	1.42	2.4%	
PCB-21/33 234'/23'4'-TrCB	20.31	8.68E+07	1.08 Y	1.42	1.48	4.2%	
PCB-22 234'-TrCB	20.68	3.93E+07	1.08 Y	1.29	1.34	3.7%	
PCB-36 33'5'-TrCB	22.01	4.32E+07	1.06 Y	1.42	1.47	3.8%	
PCB-39 34'5'-TrCB	22.32	4.43E+07	1.06 Y	1.45	1.51	3.7%	
PCB-38 345'-TrCB	22.81	3.94E+07	1.07 Y	1.30	1.34	3.0%	
PCB-35 33'4'-TrCB	23.20	3.84E+07	1.07 Y	1.25	1.31	4.9%	
PCB-37 344'-TrCB	23.55	4.01E+07	1.08 Y	1.32	1.37	3.2%	
PCB-54 22'66'-TeCB	17.79	3.07E+07	0.81 Y	1.02	1.05	3.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.66	4.58E+07	0.78 Y	0.85	0.91	6.6%	
PCB-45 22'36'-TeCB	20.21	2.09E+07	0.78 Y	0.71	0.83	15.4%	
PCB-51 22'46'-TeCB	20.28	2.20E+07	0.80 Y	0.88	0.87	-1.2%	
PCB-46 22'36'-TeCB	20.48	1.81E+07	0.80 Y	0.68	0.72	5.7%	
PCB-52 22'55'-TeCB	21.69	2.18E+07	0.76 Y	0.80	0.86	6.8%	
PCB-73 23'5'6'-TeCB	21.81	2.82E+07	0.77 Y	1.07	1.11	4.6%	
PCB-43 22'35'-TeCB	21.89	1.81E+07	0.78 Y	0.68	0.72	5.0%	
PCB-69/49 23'46'/22'45'-TeCB	22.08	5.18E+07	0.79 Y	0.97	1.02	5.3%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:47			
Lab ID:	CS3_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 13:14						
Datafile:	140205S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.35	2.13E+07	0.76 Y	0.80	0.84	5.0%	
PCB-44/47/65 ...-TeCB	22.56	6.91E+07	0.79 Y	0.87	0.91	4.4%	
PCB-59/62/75 ...-TeCB	22.82	8.88E+07	0.78 Y	1.11	1.17	5.2%	
PCB-42 22'34'-TeCB	22.98	1.96E+07	0.80 Y	0.73	0.77	6.2%	
PCB-41 22'34'-TeCB	23.30	1.67E+07	0.78 Y	0.66	0.66	0.4%	
PCB-71/40 23'4'6/22'33'-TeCB	23.40	4.41E+07	0.80 Y	0.82	0.87	5.7%	
PCB-64 23'4'6'-TeCB	23.59	3.12E+07	0.78 Y	1.20	1.23	3.0%	
PCB-72 23'55'-TeCB	24.30	3.71E+07	0.79 Y	1.39	1.47	5.8%	
PCB-68 23'45'-TeCB	24.55	3.97E+07	0.79 Y	1.49	1.57	5.5%	
PCB-57 23'35'-TeCB	24.90	3.51E+07	0.79 Y	1.33	1.39	4.3%	
PCB-58 23'35'-TeCB	25.10	3.61E+07	0.79 Y	1.38	1.43	3.3%	
PCB-67 23'45'-TeCB	25.24	3.87E+07	0.79 Y	1.47	1.53	4.0%	
PCB-63 23'45'-TeCB	25.47	3.97E+07	0.79 Y	1.50	1.57	4.2%	
PCB-61/70/74/76 ...-TeCB	25.74	1.45E+08	0.79 Y	1.38	1.44	3.8%	
PCB-66 23'44'-TeCB	26.02	3.42E+07	0.78 Y	1.28	1.35	5.6%	
PCB-55 23'34'-TeCB	26.16	3.49E+07	0.77 Y	1.33	1.38	3.9%	
PCB-56 23'34'-TeCB	26.59	3.35E+07	0.78 Y	1.25	1.33	6.0%	
PCB-60 23'44'-TeCB	26.77	3.52E+07	0.79 Y	1.34	1.39	3.6%	
PCB-80 33'55'-TeCB	27.12	3.98E+07	0.79 Y	1.51	1.57	4.5%	
PCB-79 33'45'-TeCB	28.40	3.93E+07	0.79 Y	1.55	1.55	0.4%	
PCB-78 33'45'-TeCB	28.87	3.31E+07	0.79 Y	1.25	1.31	4.8%	
PCB-104 22'466'-PeCB	22.49	2.81E+07	0.62 Y	1.02	1.05	2.8%	
PCB-96 22'366'-PeCB	22.80	2.43E+07	0.62 Y	0.90	0.91	0.5%	
PCB-103 22'45'6'-PeCB	24.45	1.86E+07	0.60 Y	0.92	0.95	3.7%	
PCB-94 22'356'-PeCB	24.63	1.62E+07	0.63 Y	0.79	0.83	4.1%	
PCB-95 22'35'6'-PeCB	25.01	1.73E+07	0.62 Y	0.85	0.89	4.9%	
PCB-100/93 22'44'6/22'356'-PeCB	25.20	3.57E+07	0.62 Y	0.88	0.91	3.7%	
PCB-102 22'456'-PeCB	25.31	2.05E+07	0.61 Y	0.95	1.05	10.4%	
PCB-98 22'34'6'-PeCB	25.38	1.50E+07	0.61 Y	0.76	0.77	0.6%	
PCB-88 22'346'-PeCB	25.66	1.72E+07	0.61 Y	0.80	0.88	9.9%	
PCB-91 22'34'6'-PeCB	25.74	1.75E+07	0.62 Y	0.90	0.90	-0.6%	
PCB-84 22'33'6'-PeCB	25.92	1.44E+07	0.62 Y	0.71	0.74	4.1%	
PCB-89 22'346'-PeCB	26.33	1.54E+07	0.62 Y	0.76	0.79	4.1%	
PCB-121 23'45'6'-PeCB	26.68	2.33E+07	0.64 Y	1.15	1.19	3.9%	
PCB-92 22'355'-PeCB	27.00	1.62E+07	0.63 Y	0.80	0.83	3.2%	
PCB-113/90/101 ...-PeCB	27.46	5.75E+07	0.62 Y	0.94	0.98	4.3%	
PCB-83 22'33'5'-PeCB	27.88	1.29E+07	0.61 Y	0.68	0.66	-3.4%	
PCB-99 22'44'5'-PeCB	27.97	1.92E+07	0.63 Y	0.88	0.98	11.7%	
PCB-112 23'3'56'-PeCB	28.08	2.17E+07	0.62 Y	1.08	1.11	2.6%	
PCB-109/119/86/97/125...-PeCB	28.41	1.16E+08	0.63 Y	0.96	0.99	3.6%	
PCB-117 23'4'56'-PeCB	28.93	2.22E+07	0.62 Y	1.00	1.13	12.9%	
PCB-116/85 23'456/22'344'-PeCB	29.01	3.76E+07	0.63 Y	0.95	0.96	1.8%	
PCB-110 23'3'4'6'-PeCB	29.15	2.22E+07	0.62 Y	1.06	1.14	7.7%	

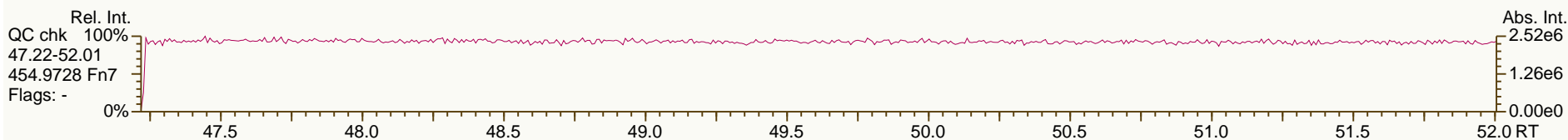
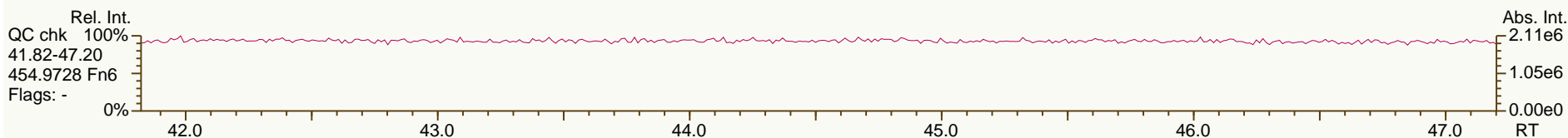
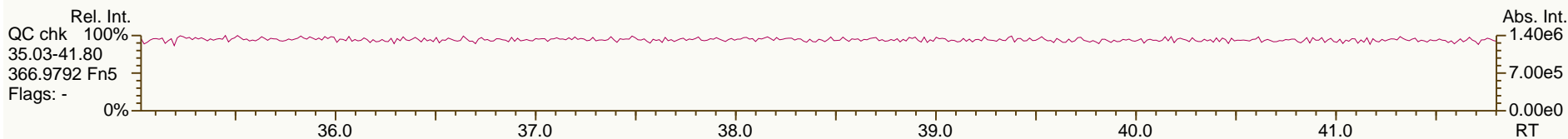
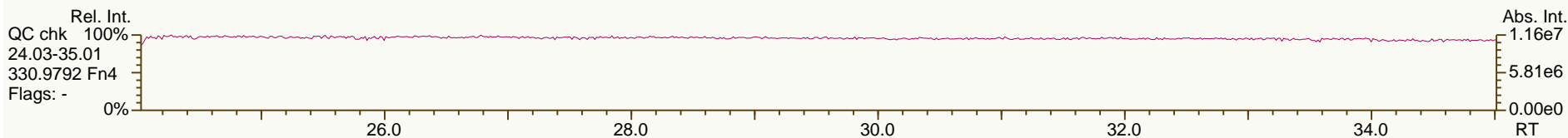
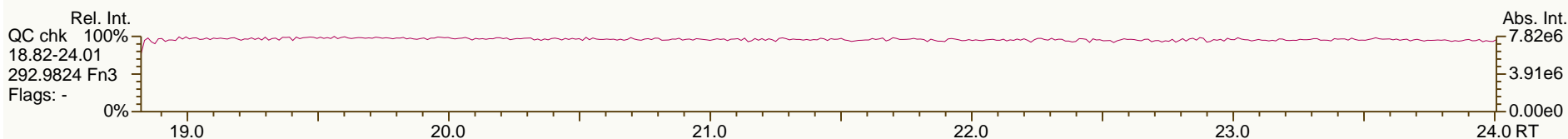
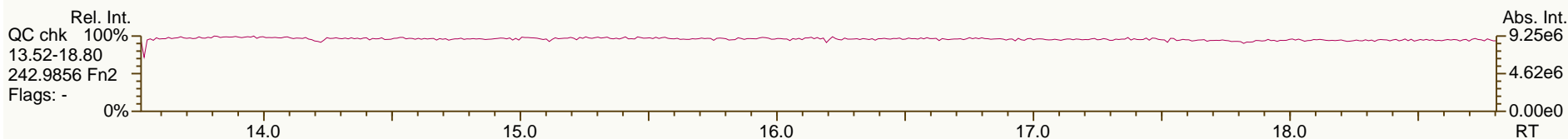
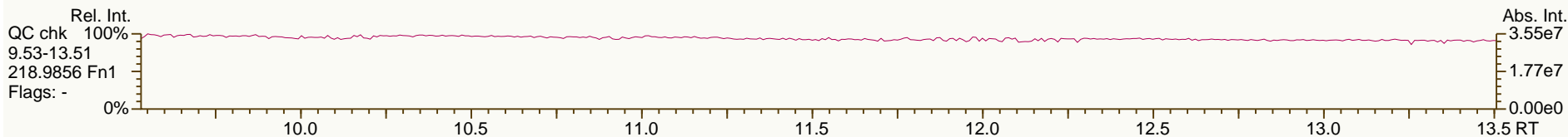
PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:47			
Lab ID:	CS3_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 13:14						
Datafile:	140205S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	29.21	2.19E+07	0.64 Y	1.09	1.12	2.8%	
PCB-82 22'33'4-PeCB	29.41	1.38E+07	0.62 Y	0.67	0.71	5.9%	
PCB-111 233'55'-PeCB	29.75	2.35E+07	0.62 Y	1.15	1.20	4.7%	
PCB-120 23'455'-PeCB	30.13	2.33E+07	0.62 Y	1.13	1.19	5.8%	
PCB-108/124 ...-PeCB	31.08	4.22E+07	0.62 Y	1.03	1.08	5.1%	
PCB-107 233'4'5-PeCB	31.29	2.28E+07	0.60 Y	1.11	1.16	4.9%	
PCB-106 233'45-PeCB	31.49	2.05E+07	0.62 Y	1.02	1.05	2.7%	
PCB-122 233'4'5'-PeCB	31.95	2.01E+07	0.63 Y	0.92	0.98	6.2%	
PCB-127 33'455'-PeCB	33.89	2.11E+07	0.62 Y	0.96	0.98	2.4%	
PCB-155 22'44'66'-HxCB	27.29	2.92E+07	1.26 Y	1.11	1.14	3.4%	
PCB-152 22'3566'-HxCB	27.45	2.68E+07	1.26 Y	1.03	1.05	2.2%	
PCB-150 22'34'66'-HxCB	27.59	2.74E+07	1.26 Y	1.00	1.07	6.7%	
PCB-136 22'33'66'-HxCB	27.90	2.50E+07	1.26 Y	0.96	0.98	2.1%	
PCB-145 22'3466'-HxCB	28.15	2.54E+07	1.26 Y	0.97	0.99	2.7%	
PCB-148 22'34'56'-HxCB	29.42	1.93E+07	1.26 Y	1.07	1.08	0.5%	
PCB-151/135 ...-HxCB	29.94	3.71E+07	1.26 Y	1.02	1.03	1.5%	
PCB-154 22'44'56'-HxCB	30.13	2.11E+07	1.26 Y	1.16	1.18	0.9%	
PCB-144 22'345'6-HxCB	30.40	1.87E+07	1.28 Y	1.02	1.04	2.3%	
PCB-147/149 ...-HxCB	30.69	3.74E+07	1.27 Y	1.03	1.04	0.8%	
PCB-134 22'33'56-HxCB	30.87	1.56E+07	1.27 Y	0.82	0.87	5.5%	
PCB-143 22'3456'-HxCB	30.94	1.72E+07	1.28 Y	0.98	0.96	-2.0%	
PCB-139/140 ...-HxCB	31.19	3.84E+07	1.27 Y	1.07	1.07	0.3%	
PCB-131 22'33'46-HxCB	31.36	1.64E+07	1.25 Y	0.92	0.92	-0.5%	
PCB-142 22'3456-HxCB	31.49	1.65E+07	1.27 Y	0.91	0.92	1.7%	
PCB-132 22'33'46'-HxCB	31.75	1.68E+07	1.24 Y	0.93	0.94	1.0%	
PCB-133 22'33'55'-HxCB	32.17	1.77E+07	1.27 Y	0.96	0.99	2.7%	
PCB-165 233'55'6-HxCB	32.51	2.17E+07	1.28 Y	1.18	1.21	2.6%	
PCB-146 22'34'55'-HxCB	32.71	1.99E+07	1.26 Y	1.10	1.11	1.1%	
PCB-161 233'45'6-HxCB	32.82	2.46E+07	1.28 Y	1.35	1.37	1.3%	
PCB-153/168 ...-HxCB	33.25	4.70E+07	1.26 Y	1.29	1.31	1.8%	
PCB-141 22'3455'-HxCB	33.39	1.76E+07	1.27 Y	0.96	0.98	1.9%	
PCB-130 22'33'45'-HxCB	33.73	1.57E+07	1.24 Y	0.85	0.87	2.3%	
PCB-137 22'344'5-HxCB	33.92	1.95E+07	1.28 Y	1.05	1.09	3.7%	
PCB-164 233'4'5'6-HxCB	34.01	2.29E+07	1.26 Y	1.26	1.28	1.2%	
PCB-163/138/129 ...-HxCB	34.29	5.69E+07	1.24 Y	1.06	1.06	0.2%	
PCB-160 233'456-HxCB	34.41	2.24E+07	1.26 Y	1.24	1.25	0.4%	
PCB-158 233'44'6-HxCB	34.60	2.49E+07	1.22 Y	1.34	1.39	3.4%	
PCB-128/166 ...-HxCB	35.32	3.58E+07	1.24 Y	0.93	0.96	3.2%	
PCB-159 233'455'-HxCB	36.15	2.09E+07	1.25 Y	1.09	1.12	3.2%	
PCB-162 233'4'55'-HxCB	36.40	2.08E+07	1.27 Y	1.08	1.12	3.5%	
PCB-188 22'34'566'-HpCB	32.09	2.76E+07	1.08 Y	1.10	1.12	2.0%	
PCB-179 22'33'566'-HpCB	32.38	2.50E+07	1.08 Y	1.01	1.01	-0.1%	
PCB-184 22'344'66'-HpCB	32.81	2.47E+07	1.08 Y	1.02	1.00	-1.6%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:47			
Lab ID:	CS3_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 13:14						
Datafile:	140205S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	33.11	2.71E+07	1.09 Y	1.08	1.10	1.4%	
PCB-186 22'34566'-HpCB	33.50	2.52E+07	1.07 Y	1.02	1.02	0.1%	
PCB-178 22'33'55'6'-HpCB	34.65	1.83E+07	1.06 Y	0.75	0.74	-1.2%	
PCB-175 22'33'45'6'-HpCB	35.18	1.60E+07	1.01 Y	0.99	1.00	0.7%	
PCB-187 22'34'55'6'-HpCB	35.41	1.73E+07	1.02 Y	1.05	1.08	3.2%	
PCB-182 22'344'56'-HpCB	35.58	1.77E+07	1.06 Y	1.08	1.10	2.2%	
PCB-183 22'344'5'6'-HpCB	35.92	1.75E+07	1.03 Y	1.07	1.09	1.8%	
PCB-185 22'3455'6'-HpCB	36.00	1.67E+07	1.03 Y	0.97	1.04	7.6%	
PCB-174 22'33'456'-HpCB	36.12	1.45E+07	1.04 Y	0.89	0.90	1.6%	
PCB-177 22'33'45'6'-HpCB	36.49	1.41E+07	1.02 Y	0.87	0.88	0.8%	
PCB-181 22'344'56'-HpCB	36.82	1.65E+07	1.04 Y	0.98	1.03	4.3%	
PCB-171/173 ...-HpCB	37.01	2.87E+07	1.03 Y	0.87	0.89	2.5%	
PCB-172 22'33'455'-HpCB	38.37	1.48E+07	1.04 Y	0.88	0.92	4.8%	
PCB-192 233'455'6'-HpCB	38.61	1.93E+07	1.05 Y	1.16	1.20	3.8%	
PCB-180/193 ...-HpCB	38.89	3.62E+07	1.03 Y	1.08	1.13	4.8%	
PCB-191 233'44'5'6'-HpCB	39.21	1.99E+07	1.04 Y	1.17	1.24	5.8%	
PCB-170 22'33'44'5'-HpCB	39.98	1.41E+07	1.03 Y	1.03	1.04	1.2%	
PCB-190 233'44'56'-HpCB	40.42	1.96E+07	1.01 Y	1.44	1.43	-0.5%	
PCB-202 22'33'55'66'-OcCB	36.59	1.83E+07	0.89 Y	0.83	0.82	-1.4%	
PCB-201 22'33'45'66'-OcCB	37.36	2.04E+07	0.88 Y	0.88	0.91	3.2%	
PCB-204 22'344'566'-OcCB	37.92	1.97E+07	0.91 Y	0.86	0.88	2.2%	
PCB-197 22'33'44'66'-OcCB	38.11	2.07E+07	0.88 Y	0.93	0.92	-0.4%	
PCB-200 22'33'4566'-OcCB	38.21	2.07E+07	0.89 Y	0.86	0.92	7.1%	
PCB-198/199 ...-OcCB	40.54	2.81E+07	0.88 Y	0.61	0.63	3.2%	
PCB-196 22'33'44'56'-OcCB	41.11	1.45E+07	0.88 Y	0.62	0.65	3.9%	
PCB-203 22'344'55'6'-OcCB	41.27	1.53E+07	0.88 Y	0.65	0.68	4.2%	
PCB-195 22'33'44'56'-OcCB	42.39	1.18E+07	0.88 Y	0.81	0.81	-0.1%	
PCB-194 22'33'44'55'-OcCB	44.35	1.29E+07	0.90 Y	0.89	0.89	0.4%	
PCB-205 233'44'55'6'-OcCB	44.75	1.66E+07	0.90 Y	1.11	1.14	2.6%	
PCB-208 22'33'455'66'-NoCB	42.19	1.61E+07	0.78 Y	1.01	1.02	0.7%	
PCB-207 22'33'44'566'-NoCB	42.96	1.68E+07	0.79 Y	1.06	1.06	-0.2%	
PCB-206 22'33'44'55'6'-NoCB	46.21	1.17E+07	0.79 Y	1.01	1.02	0.5%	

SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

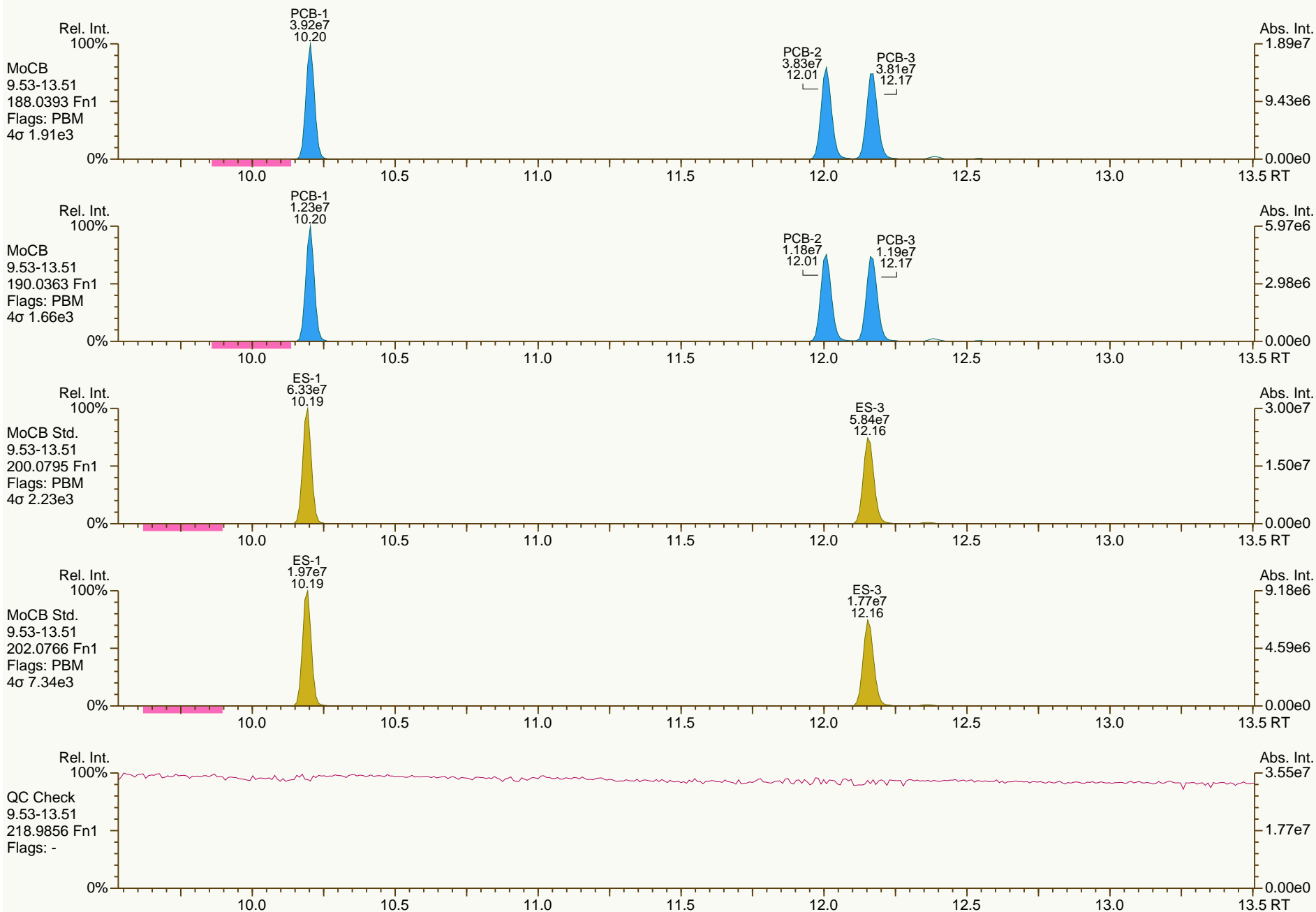
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SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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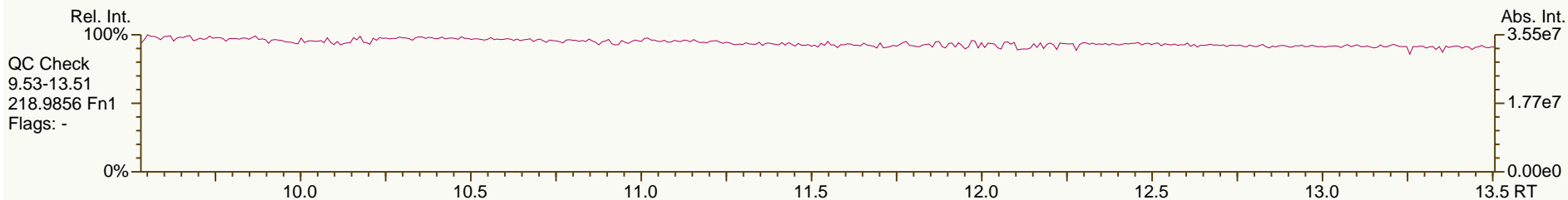
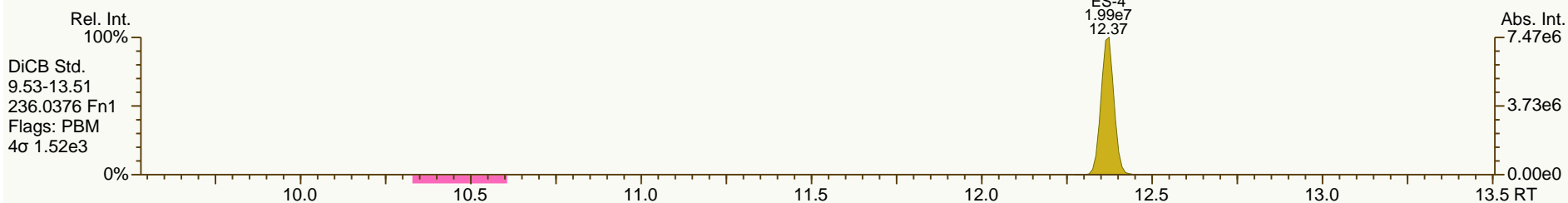
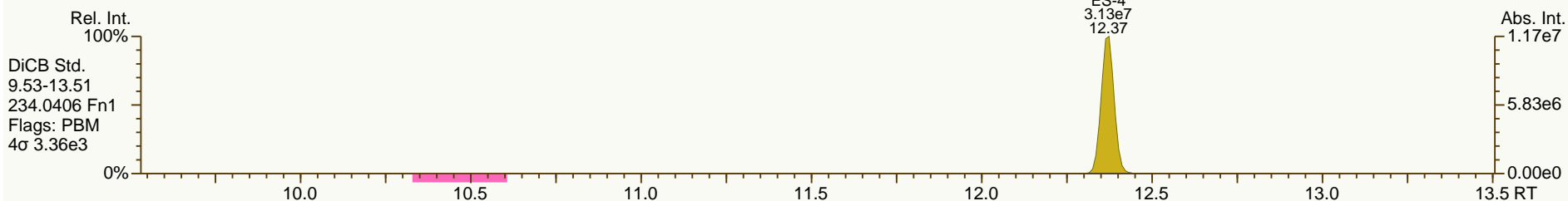
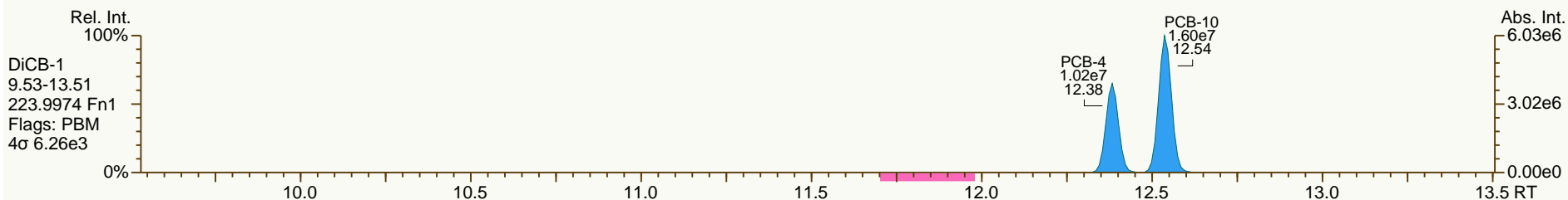
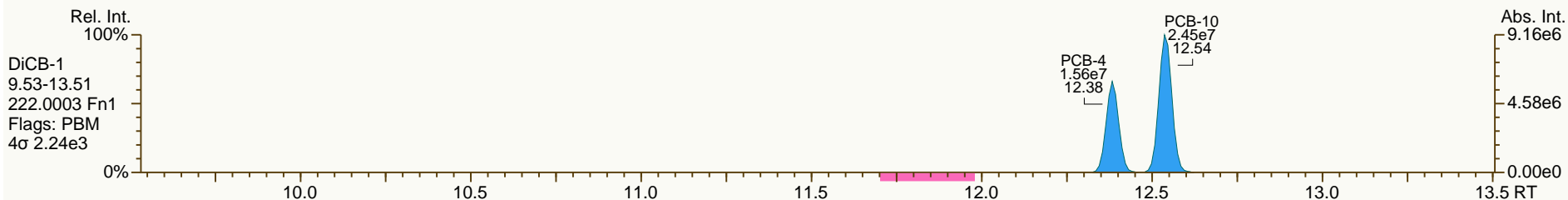




SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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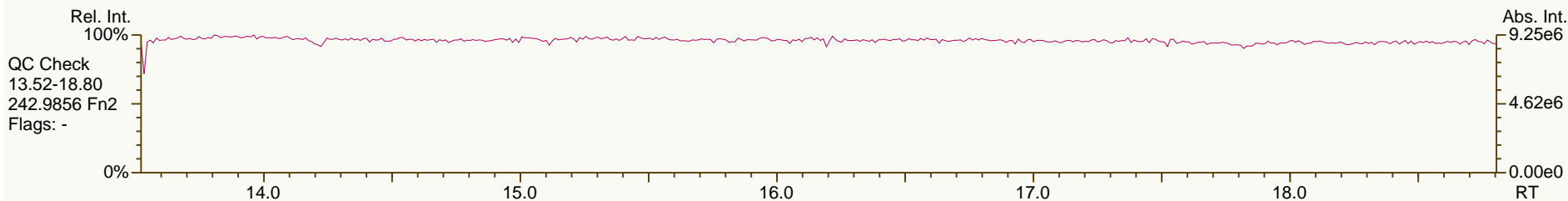
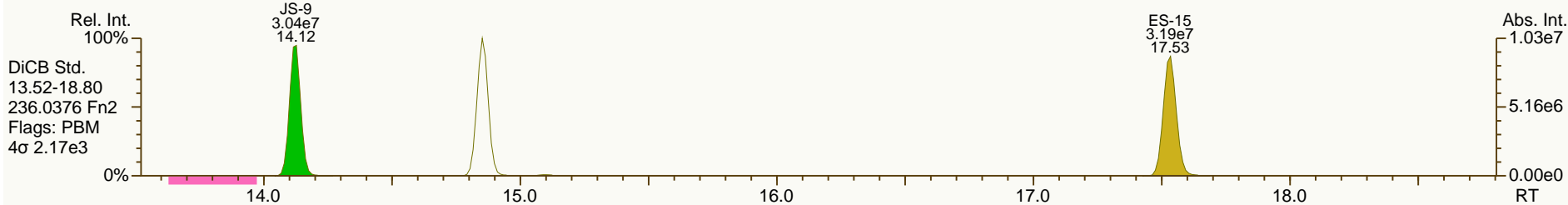
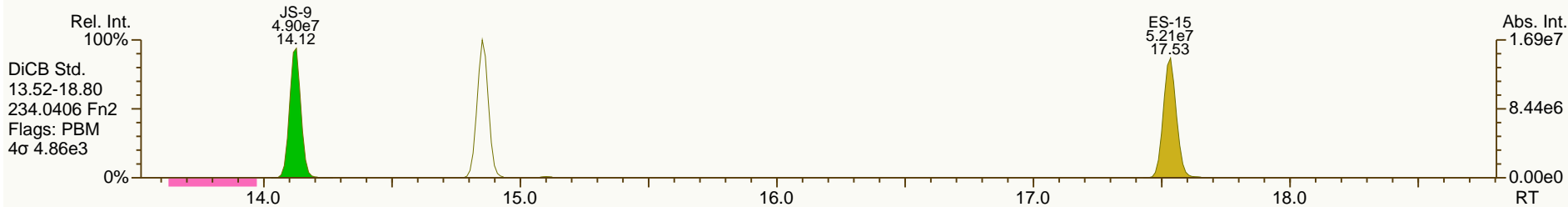
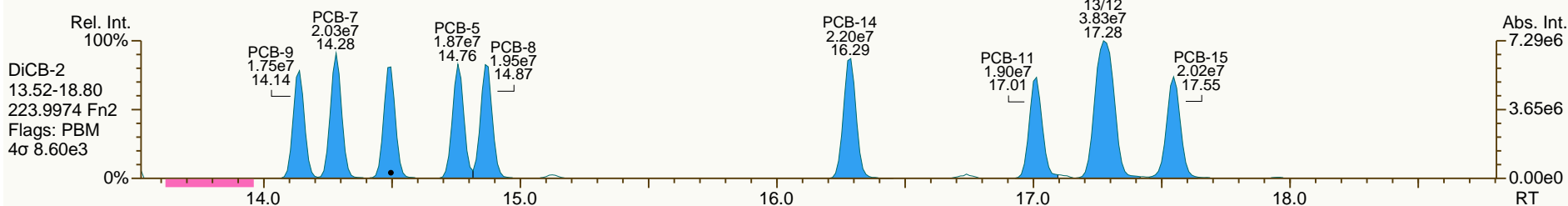
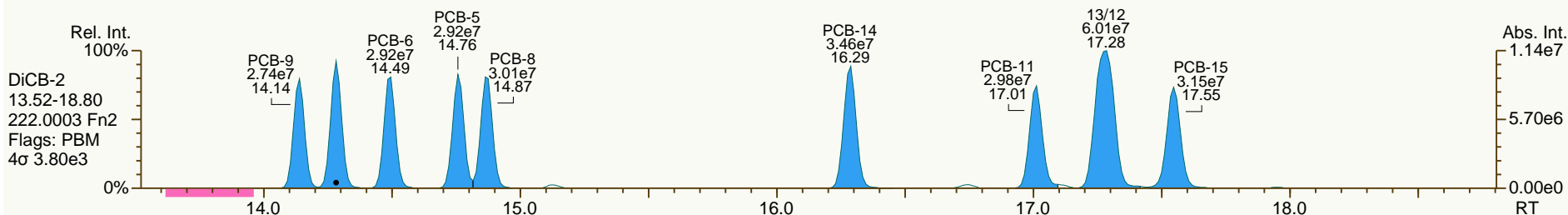
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SGS-AP ID: CS3\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-3  
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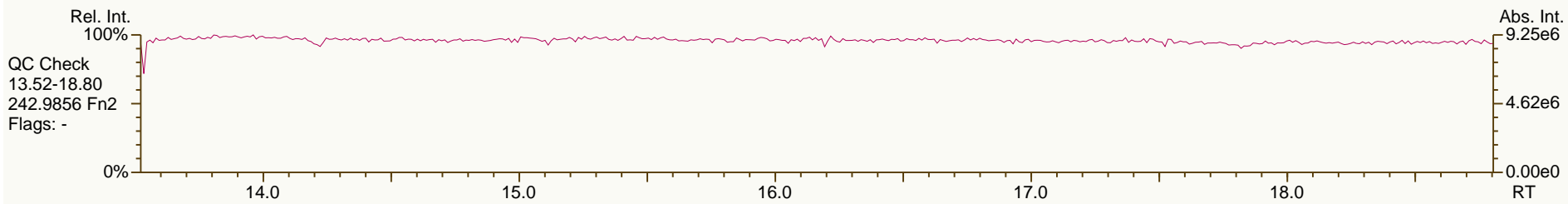
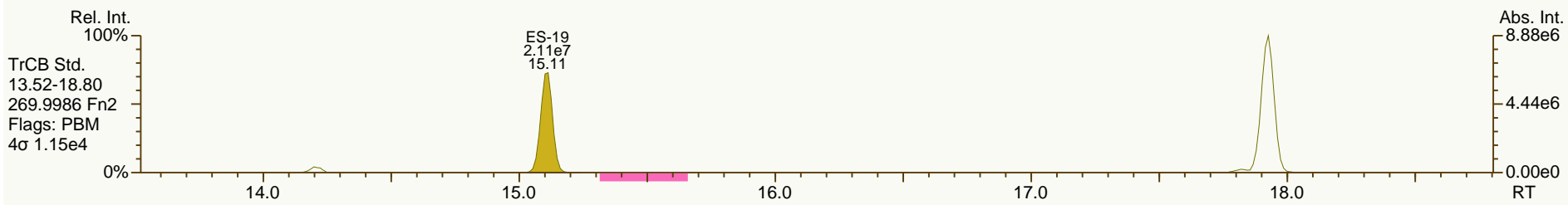
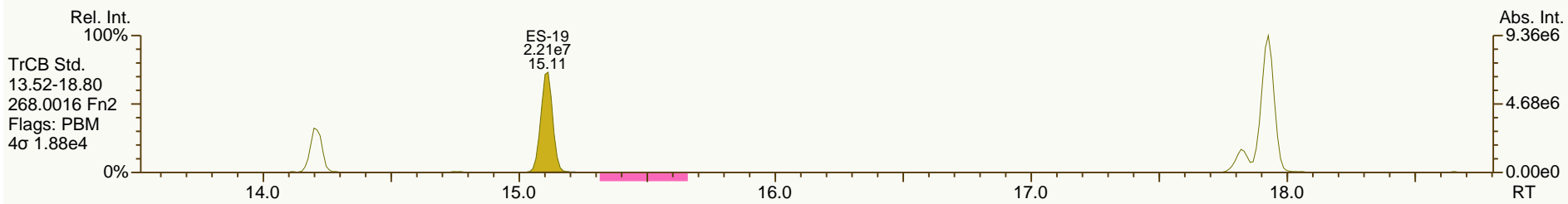
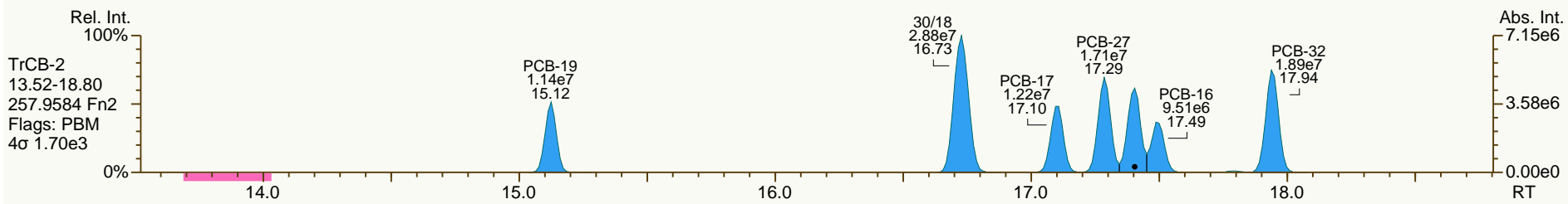
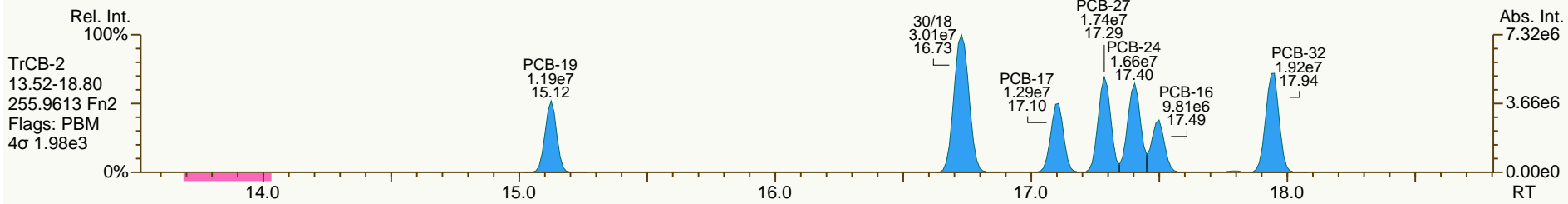
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SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

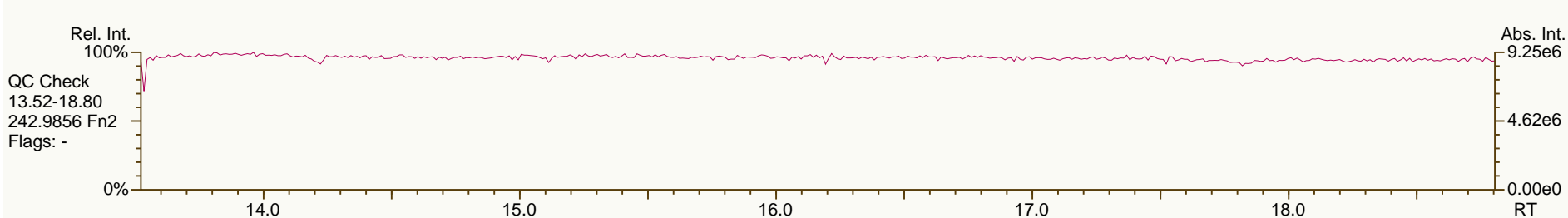
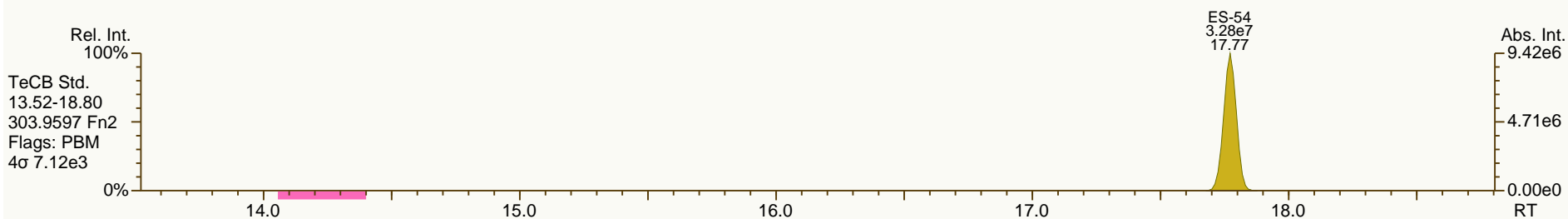
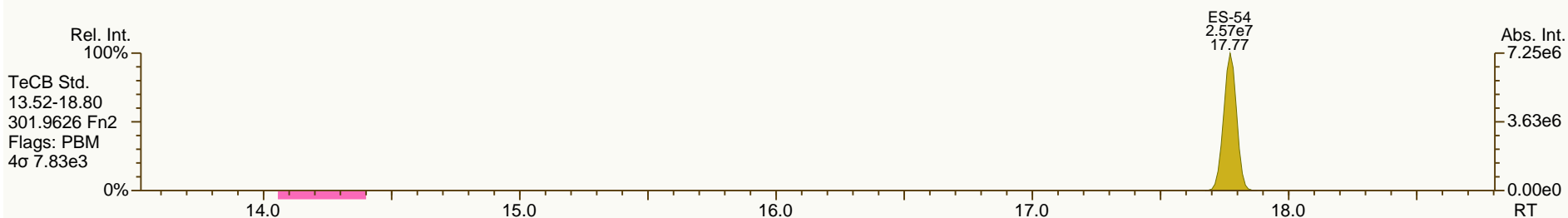
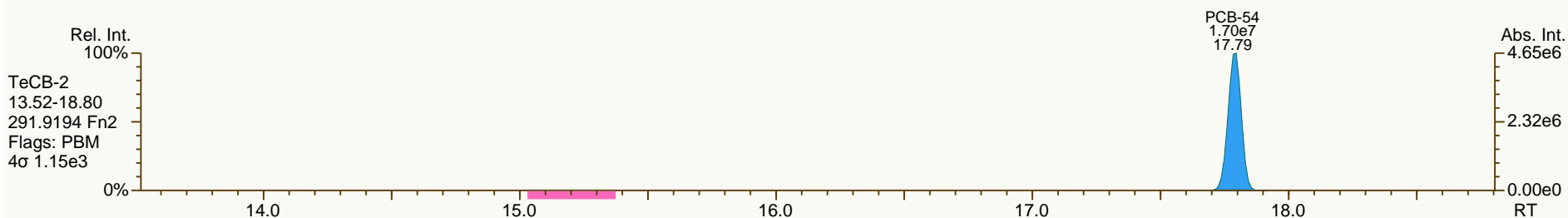
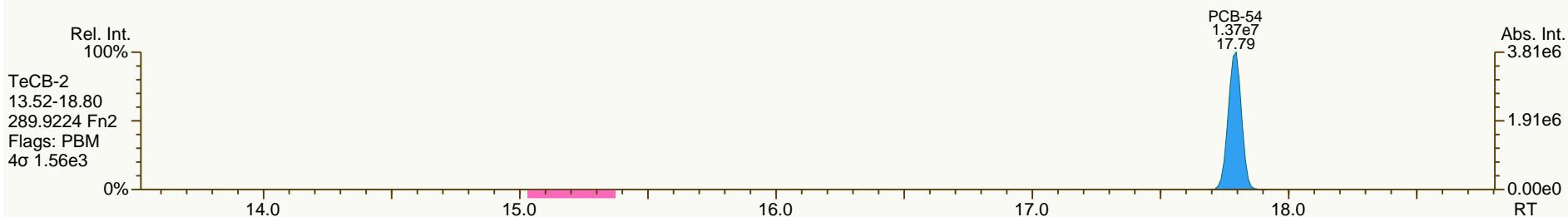
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SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

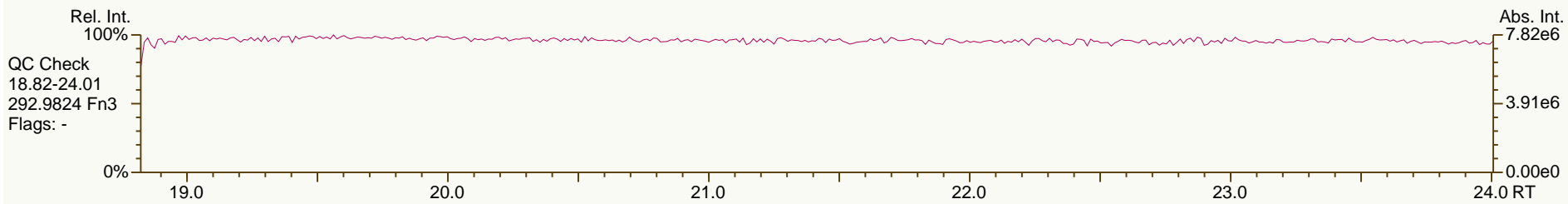
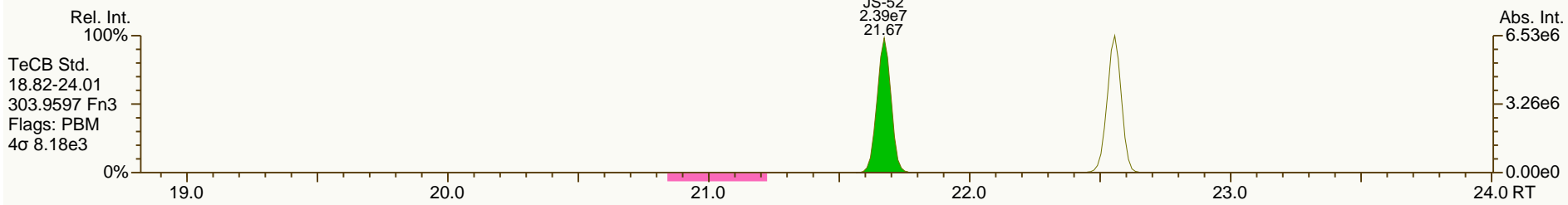
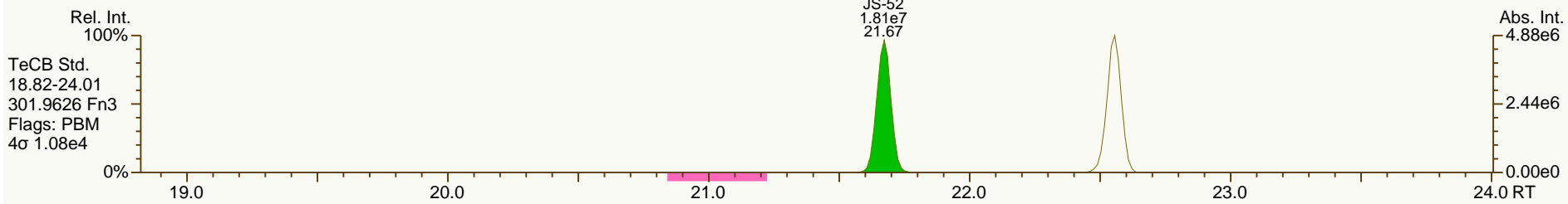
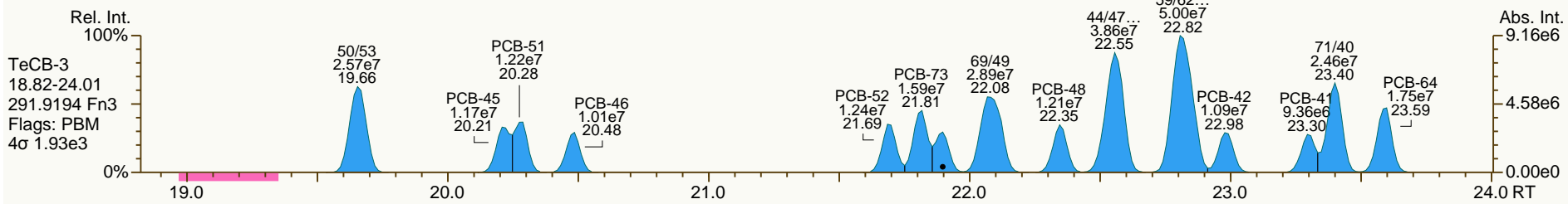
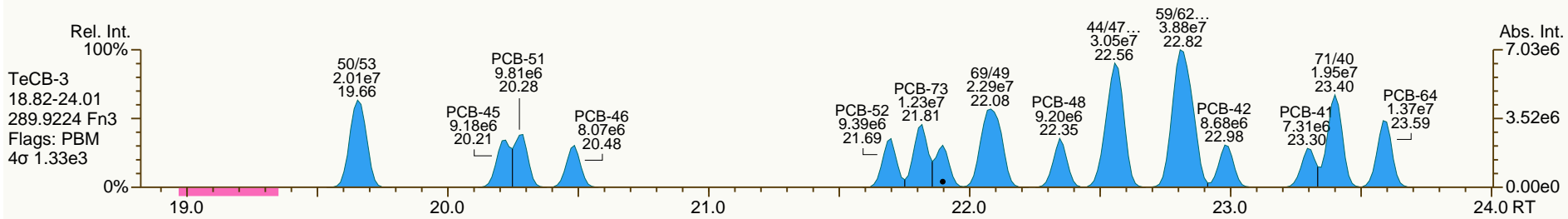
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SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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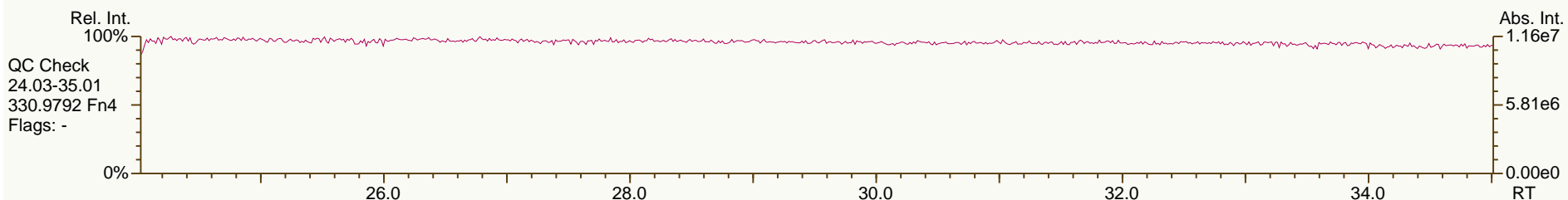
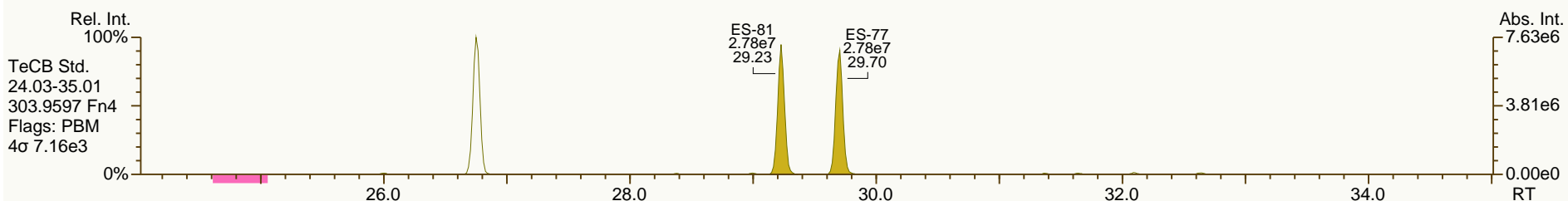
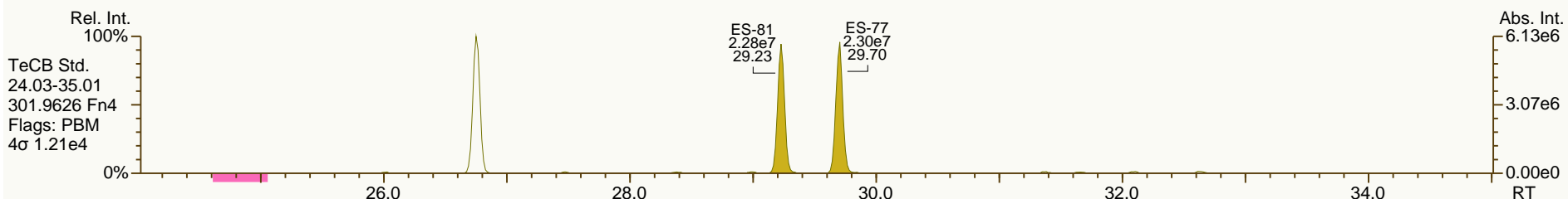
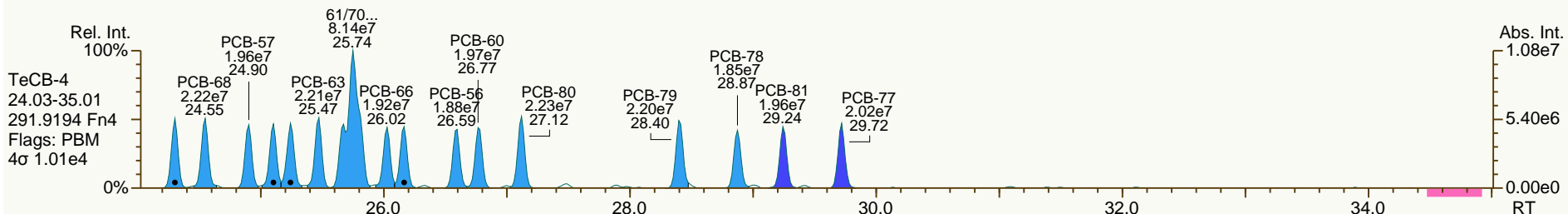
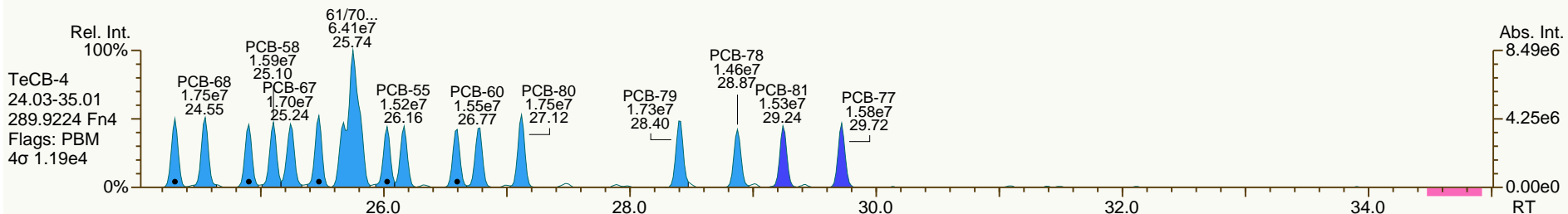
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SGS-AP ID: CS3\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-3  
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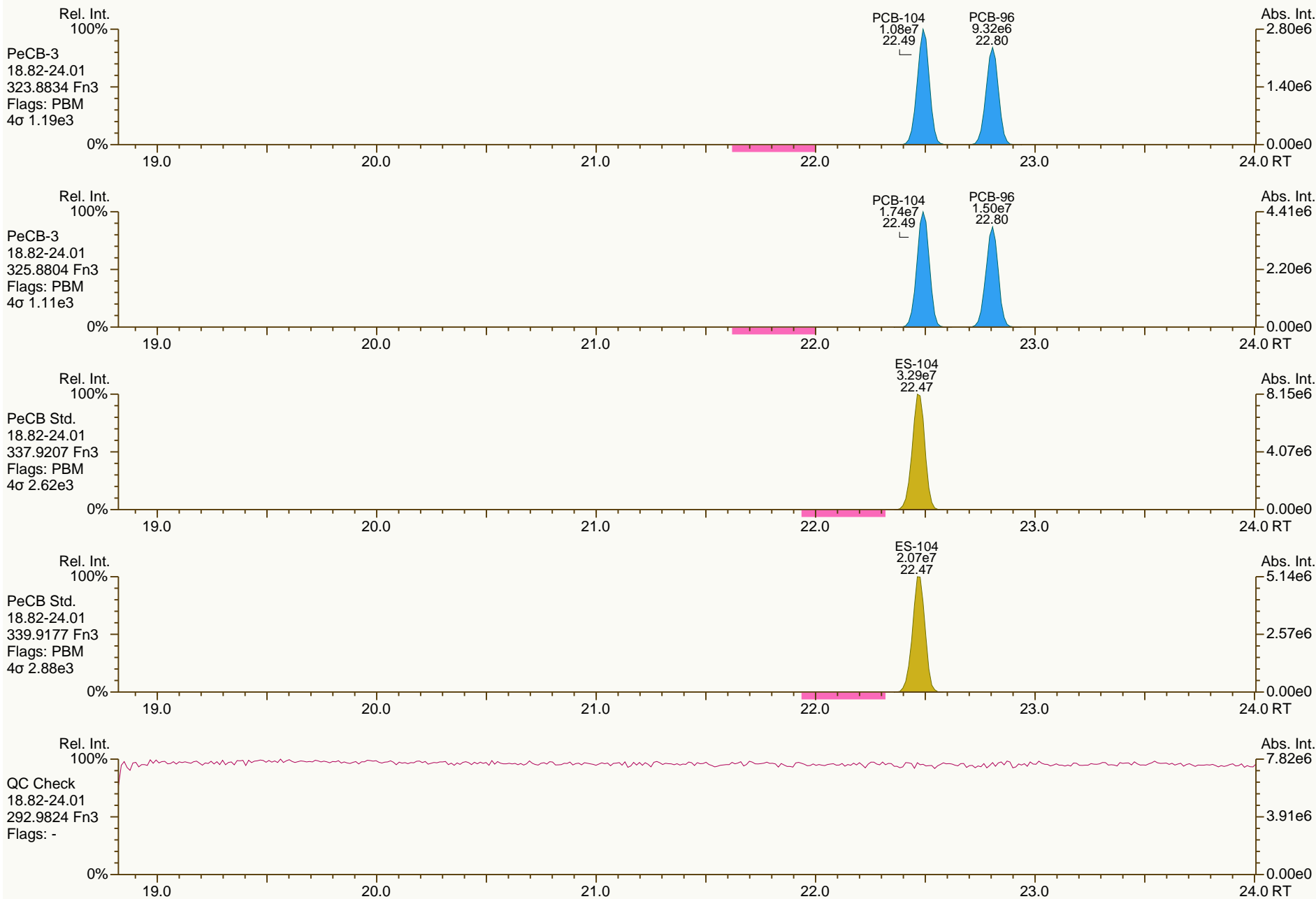
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Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

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SGS-AP ID: CS3\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
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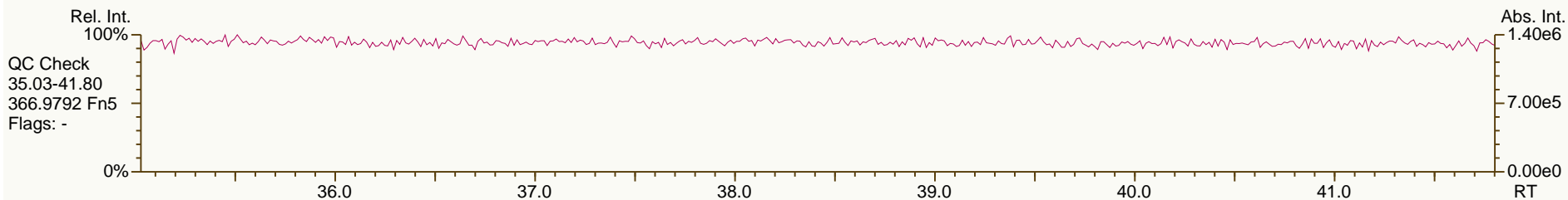
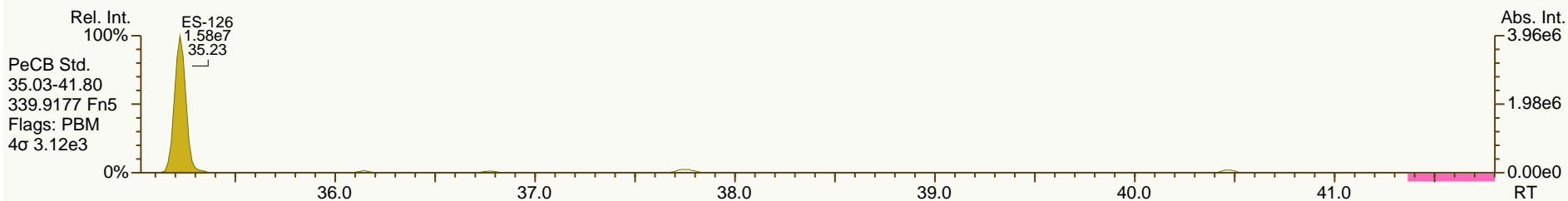
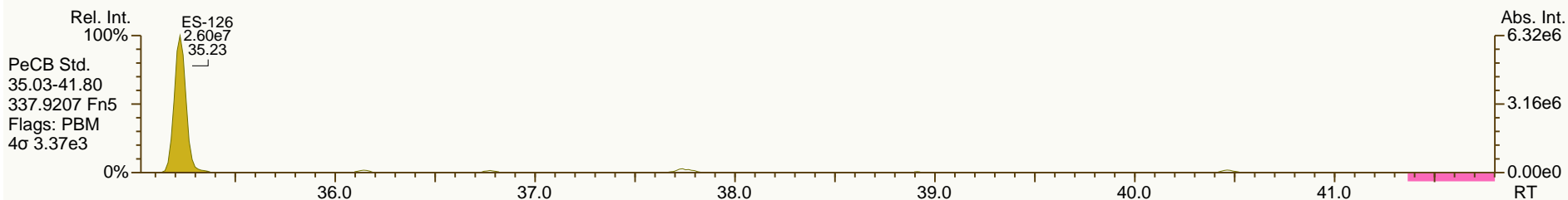
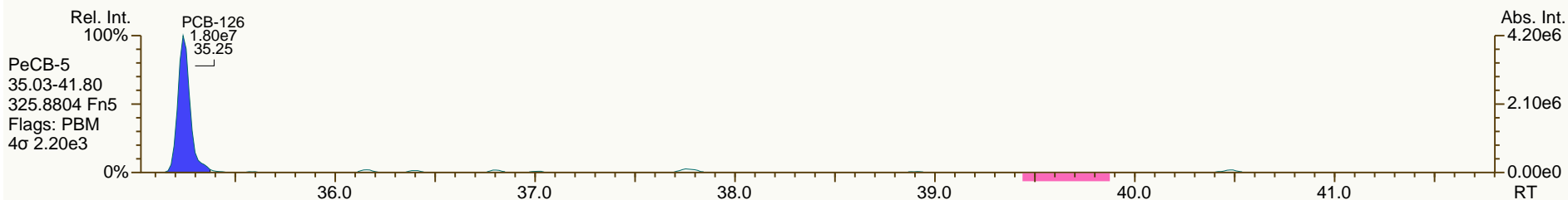
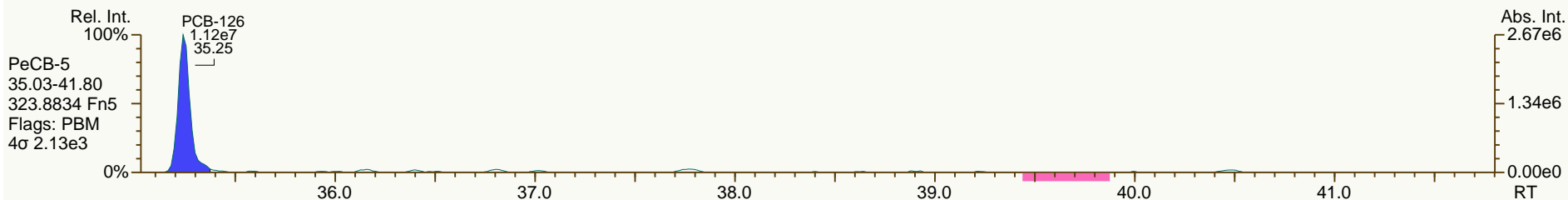
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SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

Acq: 05-Feb-2014 13:14:00  
User: CTW Datafile: 140205S05



SGS-AP ID: CS3\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

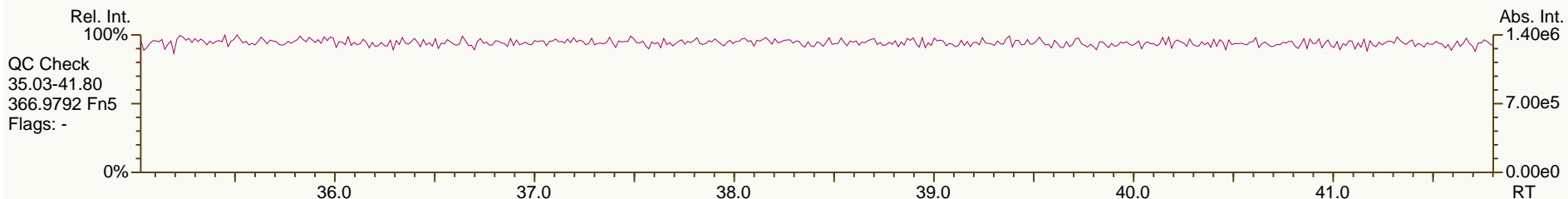
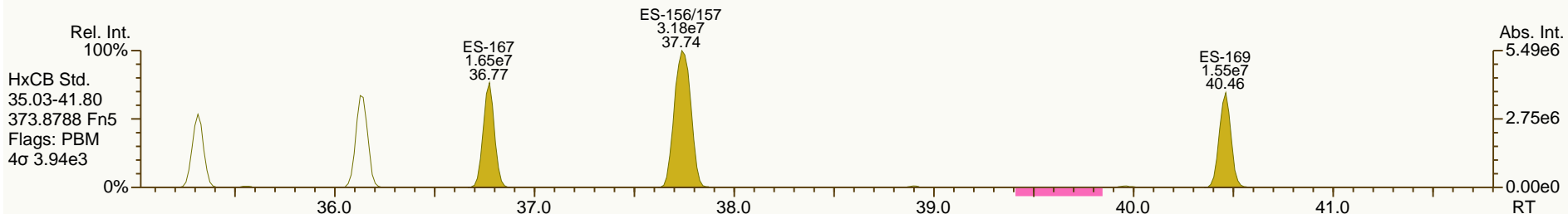
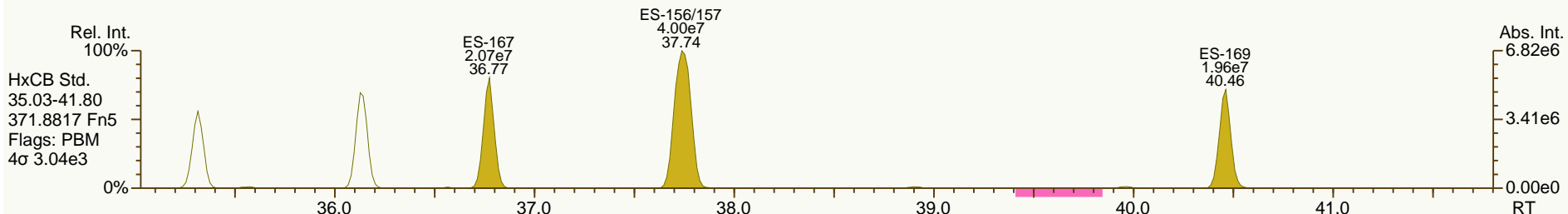
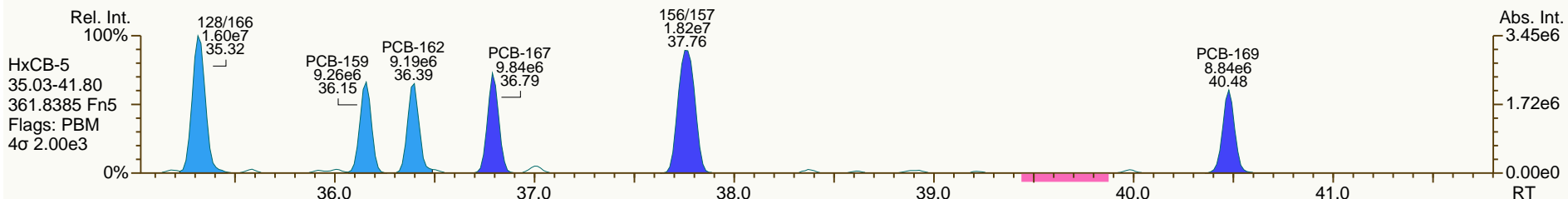
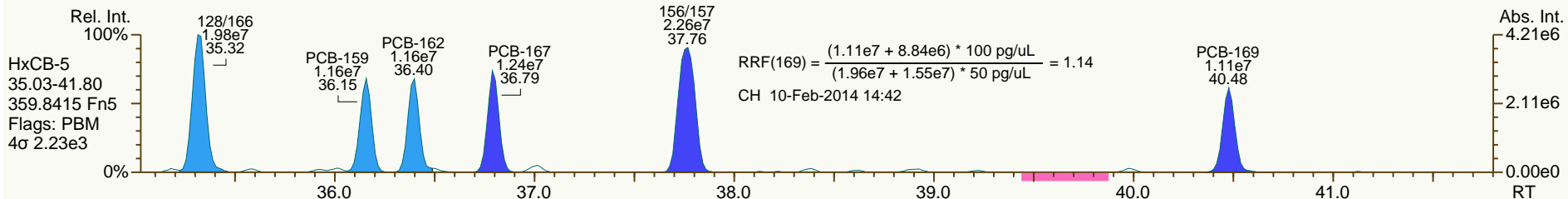
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SGS-AP ID: CS3\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-3  
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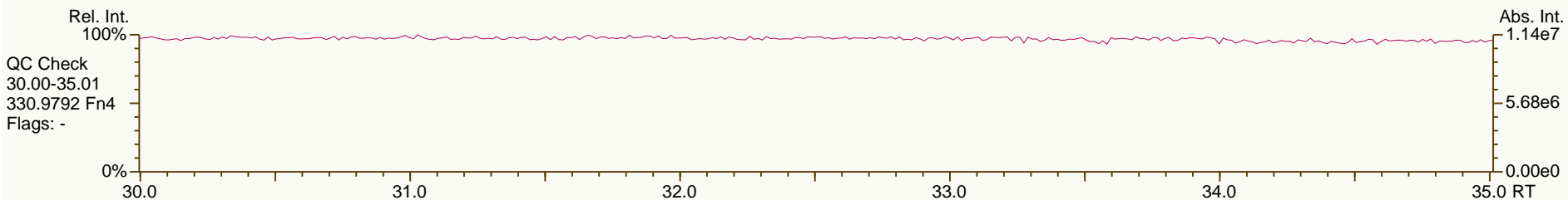
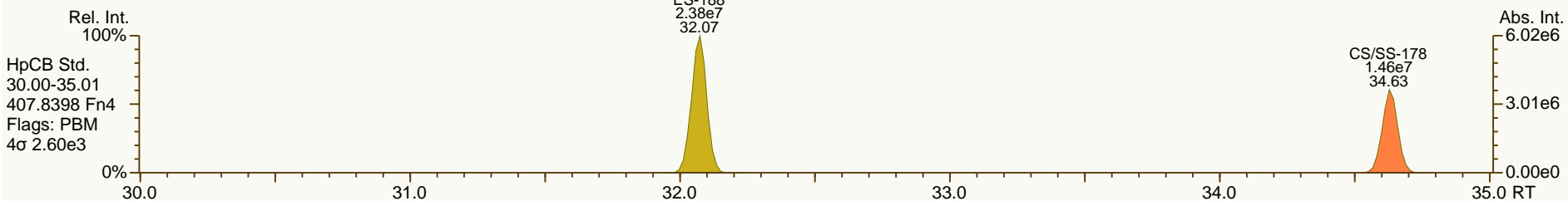
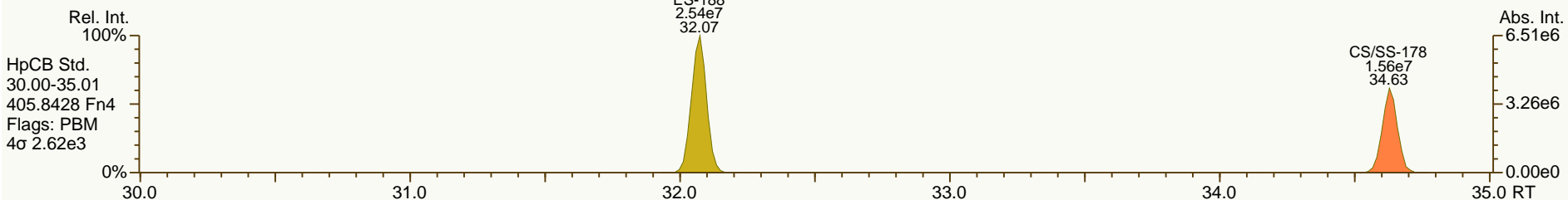
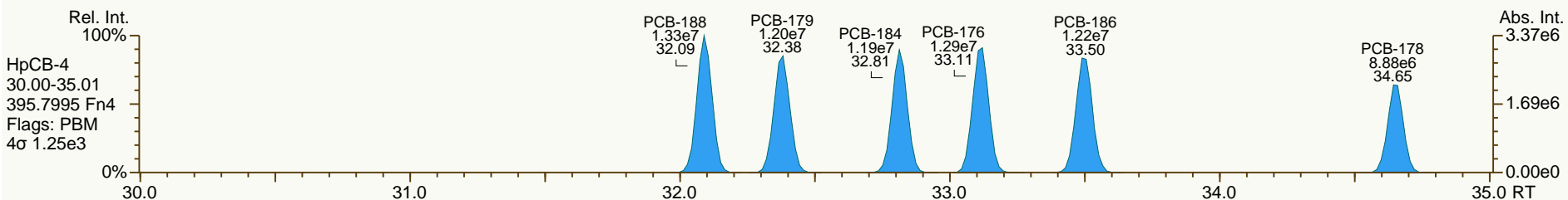
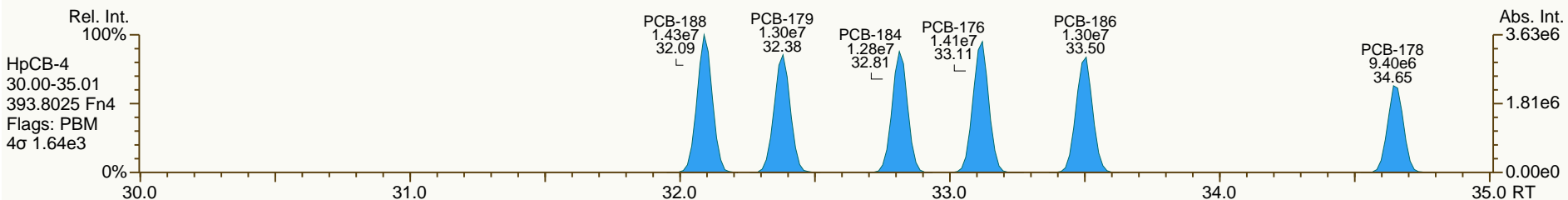
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SGS-AP ID: CS3\_140205\_PCB\_SA  
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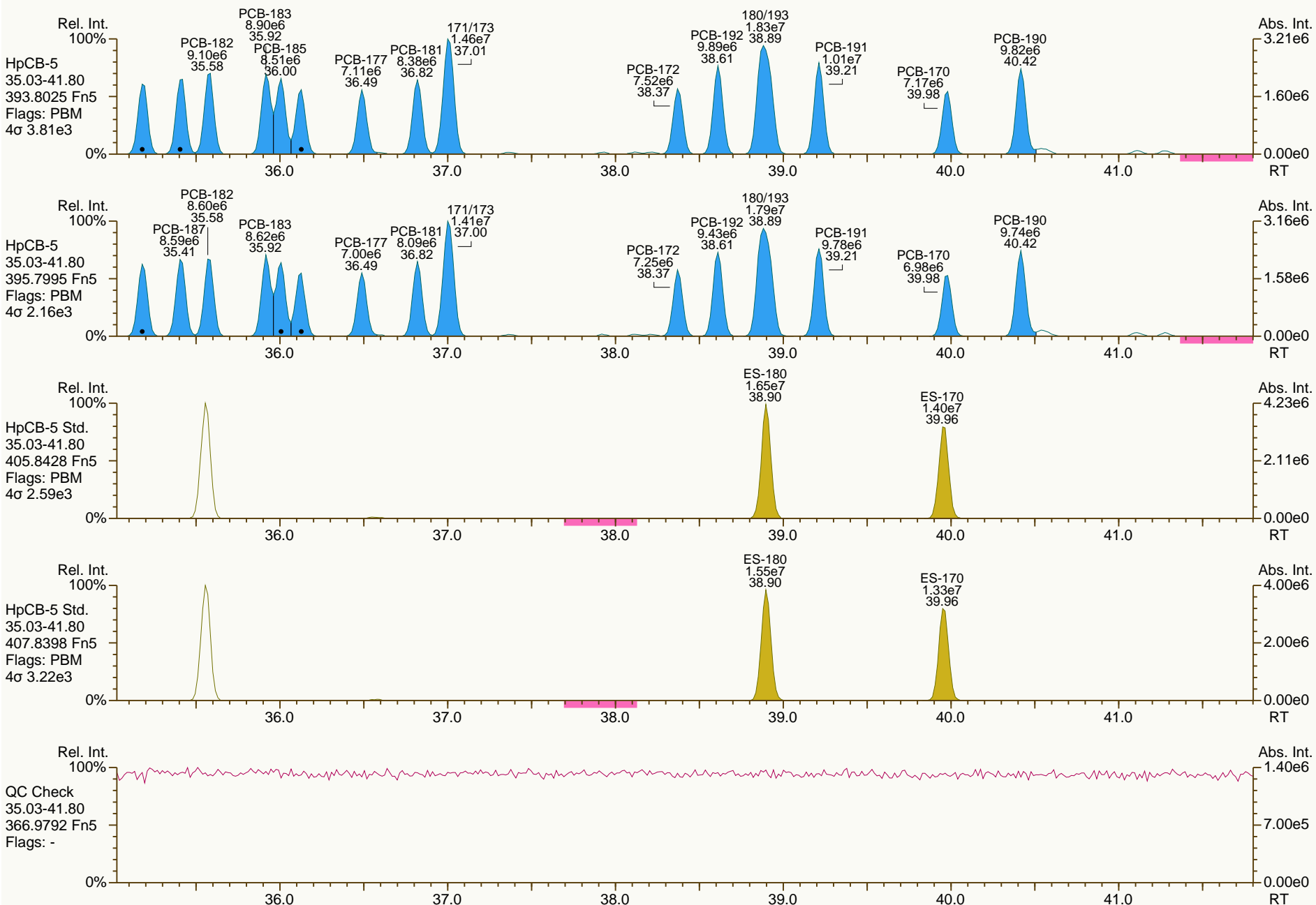
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SGS-AP ID: CS3\_140205\_PCB\_SA  
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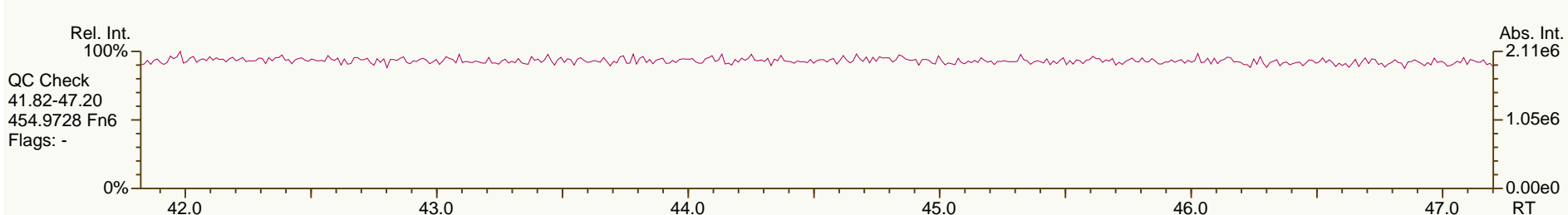
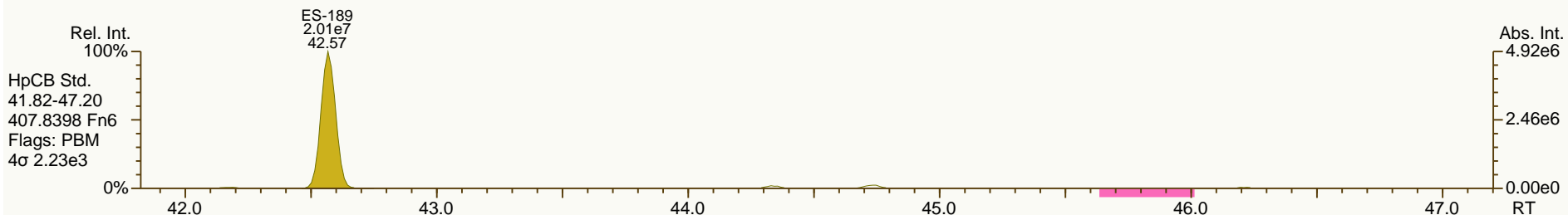
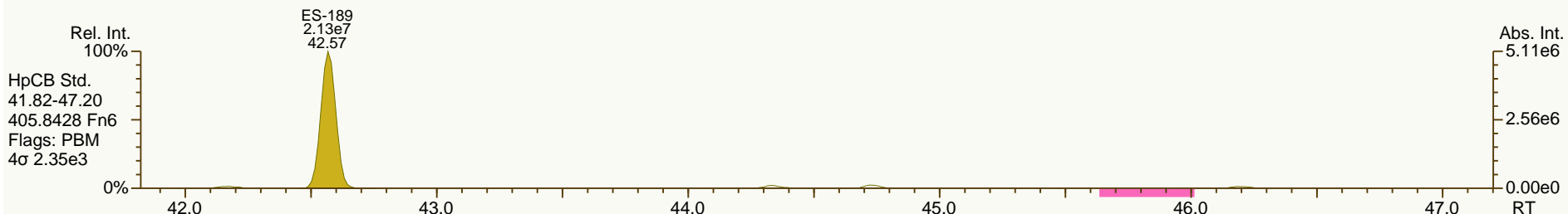
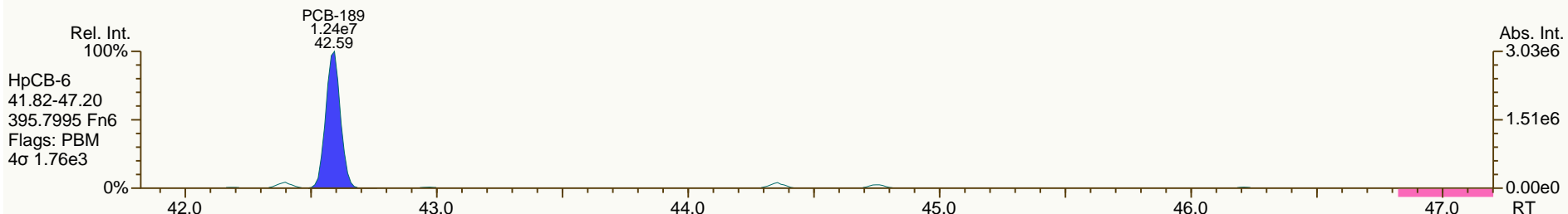
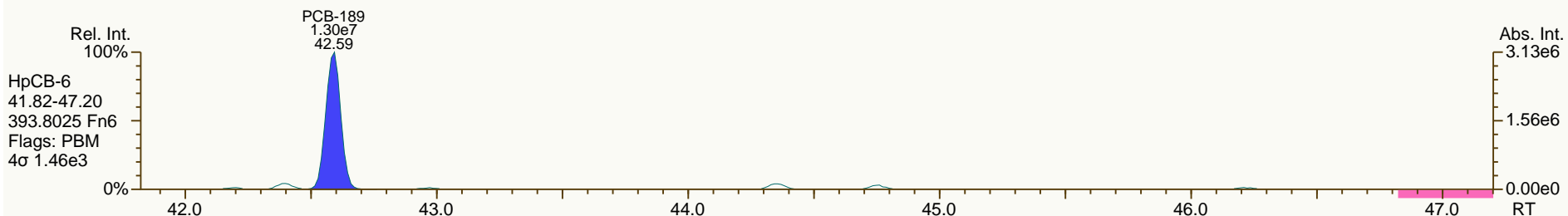
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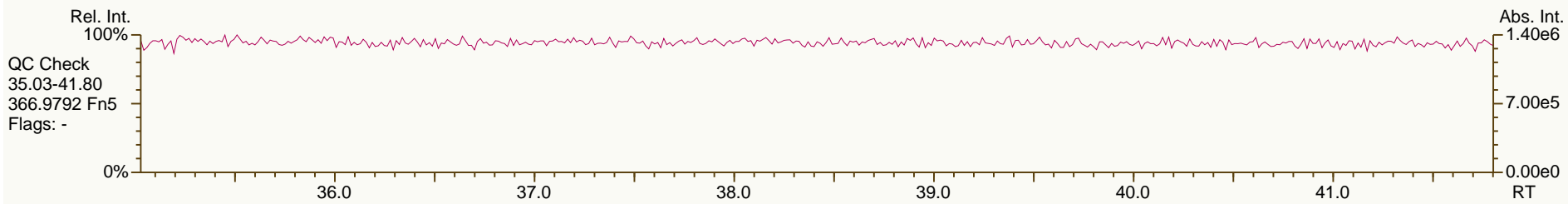
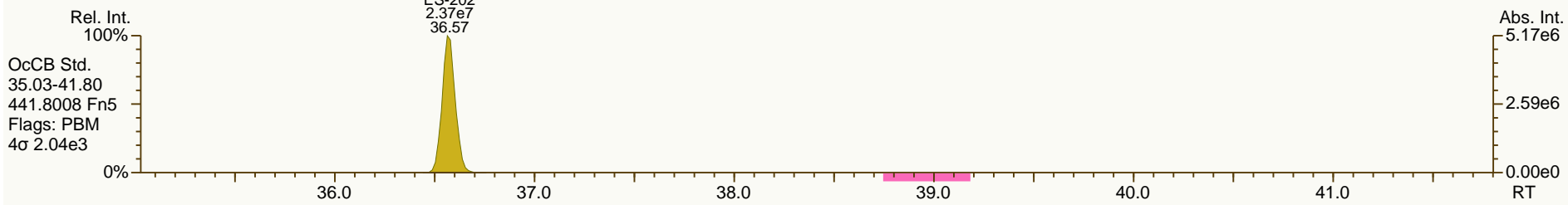
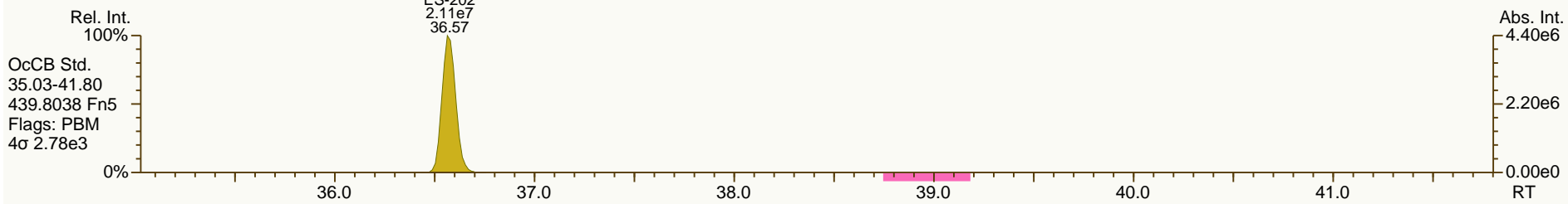
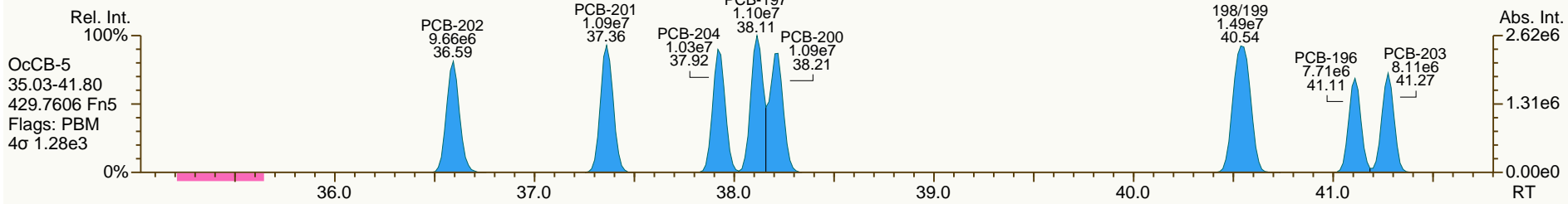
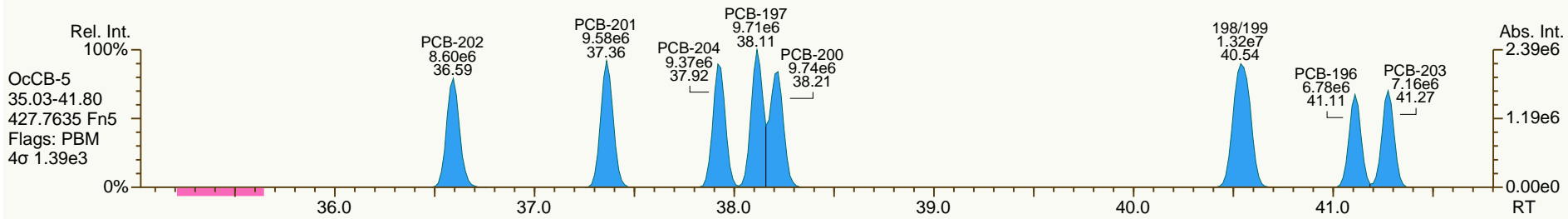
Acq: 05-Feb-2014 13:14:00  
 User: CTW Datafile: 140205S05



SGS-AP ID: CS3\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

Acq: 05-Feb-2014 13:14:00  
 User: CTW Datafile: 140205S05

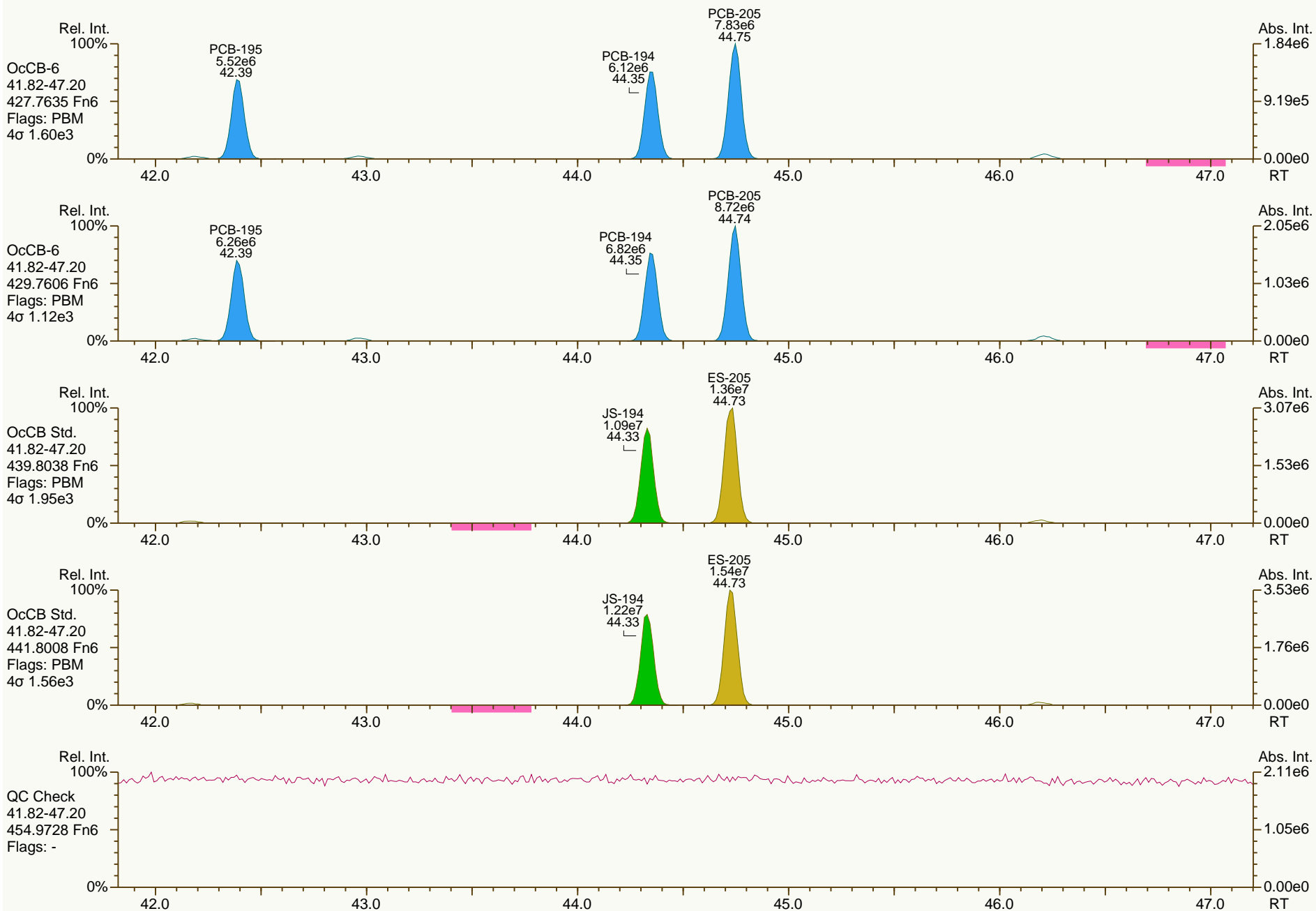




SGS-AP ID: CS3\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

Acq: 05-Feb-2014 13:14:00  
 User: CTW Datafile: 140205S05



SGS-AP ID: CS3\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

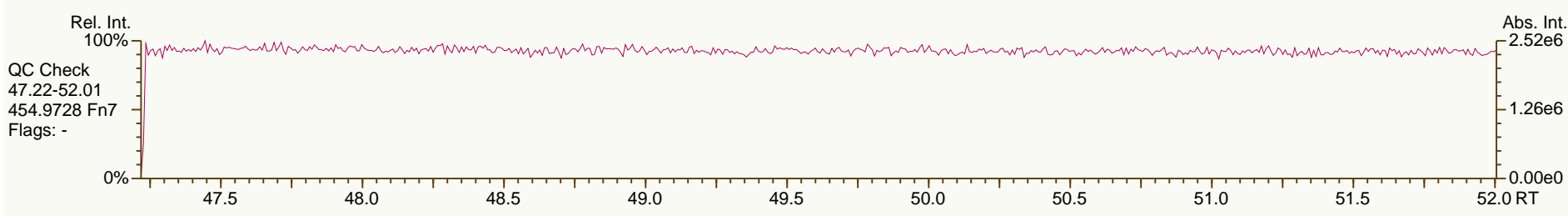
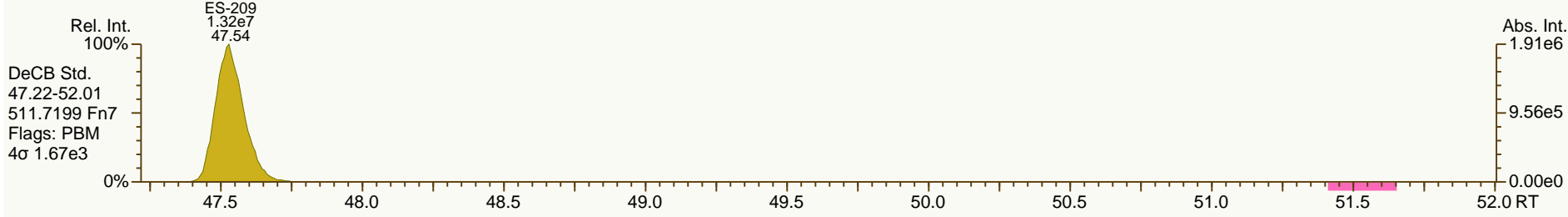
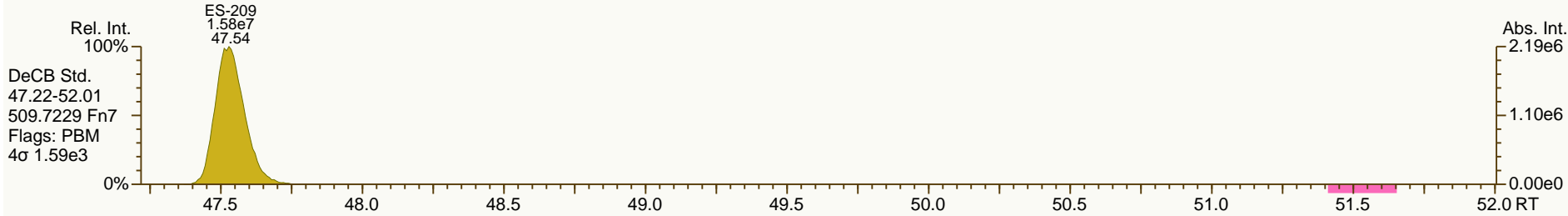
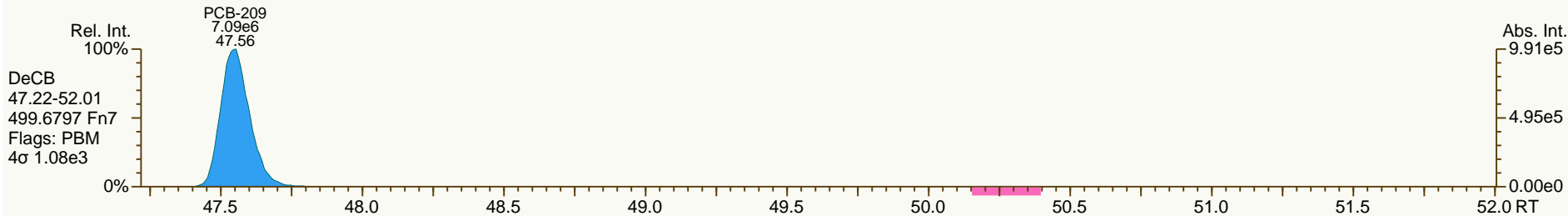
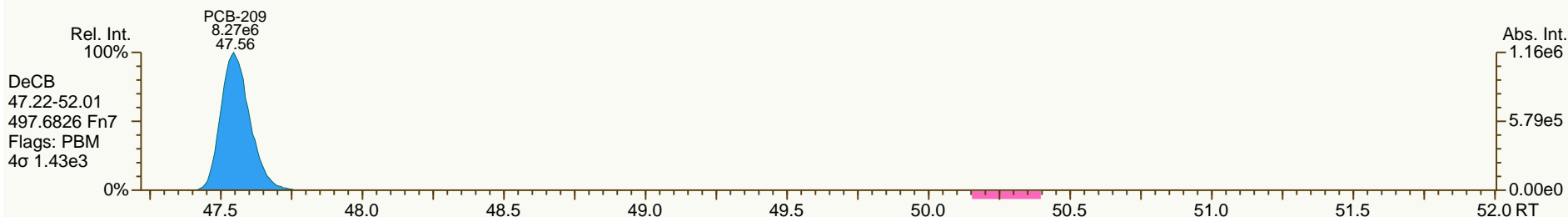
Acq: 05-Feb-2014 13:14:00  
 User: CTW Datafile: 140205S05



SGS-AP ID: CS3\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 63

Acq: 05-Feb-2014 13:14:00  
 User: CTW Datafile: 140205S05



PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:48		
Lab ID:	CS4_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 14:10						
Datafile:	140205S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.72	3.18E+08	0.78 Y	1.36	1.42	4.2%	
PCB-81 344'5'-TeCB	29.24	3.15E+08	0.78 Y	1.32	1.36	3.3%	
PCB-105 233'44'-PeCB	32.65	1.99E+08	0.61 Y	1.03	1.08	4.2%	
PCB-114 2344'5'-PeCB	32.11	2.11E+08	0.62 Y	1.13	1.15	1.4%	
PCB-118 23'44'5'-PeCB	31.66	1.98E+08	0.61 Y	1.13	1.16	2.4%	
PCB-123 23'44'5'-PeCB	31.39	2.18E+08	0.62 Y	1.11	1.21	8.1%	
PCB-126 33'44'5'-PeCB	35.25	2.56E+08	0.62 Y	1.33	1.39	4.2%	
PCB-156/157 ...-HxCB	37.76	3.61E+08	1.25 Y	1.09	1.11	1.7%	
PCB-167 23'44'55'-HxCB	36.79	1.97E+08	1.24 Y	1.15	1.20	4.0%	
PCB-169 33'44'55'-HxCB	40.48	1.80E+08	1.27 Y	1.10	1.14	3.5%	
PCB-189 233'44'55'-HpCB	42.59	2.20E+08	1.05 Y	1.21	1.25	3.5%	
PCB-209 DeCB	47.55	1.33E+08	1.19 Y	1.07	1.08	1.4%	
ES PCB-1	10.19	8.78E+07	3.22 Y	1.05	1.06	0.8%	
ES PCB-3	12.16	8.13E+07	3.27 Y	0.97	0.98	1.5%	
ES PCB-4	12.37	5.42E+07	1.54 Y	0.66	0.66	-0.6%	
ES PCB-15	17.53	9.45E+07	1.64 Y	1.09	1.14	5.4%	
ES PCB-19	15.11	4.52E+07	1.04 Y	0.55	0.55	-0.3%	
ES PCB-37	23.53	6.47E+07	1.08 Y	1.44	1.50	4.1%	
ES PCB-54	17.77	6.20E+07	0.77 Y	1.42	1.44	1.1%	
ES PCB-77	29.70	5.60E+07	0.81 Y	1.26	1.30	3.1%	
ES PCB-81	29.23	5.80E+07	0.80 Y	1.27	1.34	6.1%	
ES PCB-104	22.47	5.80E+07	1.57 Y	1.56	1.47	-5.5%	
ES PCB-105	32.63	4.62E+07	1.60 Y	1.23	1.17	-4.9%	
ES PCB-114	32.09	4.61E+07	1.58 Y	1.20	1.17	-2.9%	
ES PCB-118	31.64	4.28E+07	1.64 Y	1.13	1.08	-4.2%	
ES PCB-123	31.36	4.52E+07	1.54 Y	1.16	1.14	-1.6%	
ES PCB-126	35.22	4.62E+07	1.62 Y	1.22	1.17	-4.0%	
ES PCB-153	33.20	3.89E+07	1.30 Y	1.10	1.11	1.1%	
ES PCB-155	27.27	5.59E+07	1.27 Y	1.60	1.60	-0.1%	
ES PCB-156/157	37.74	8.12E+07	1.26 Y	1.14	1.16	2.4%	
ES PCB-167	36.77	4.11E+07	1.27 Y	1.17	1.18	0.8%	
ES PCB-169	40.46	3.97E+07	1.26 Y	1.11	1.14	3.0%	
ES PCB-170	39.96	2.87E+07	1.10 Y	1.18	1.18	0.1%	
ES PCB-180	38.90	3.60E+07	1.03 Y	1.44	1.49	3.3%	
ES PCB-188	32.07	5.31E+07	1.07 Y	1.52	1.52	0.0%	
ES PCB-189	42.57	4.39E+07	1.05 Y	1.80	1.81	0.5%	
ES PCB-202	36.57	4.90E+07	0.89 Y	1.39	1.40	1.2%	
ES PCB-205	44.73	3.08E+07	0.90 Y	1.26	1.27	0.7%	
ES PCB-206	46.19	2.44E+07	0.78 Y	1.00	1.01	1.1%	
ES PCB-208	42.17	3.36E+07	0.79 Y	1.38	1.39	0.5%	
ES PCB-209	47.54	3.08E+07	1.18 Y	1.26	1.27	0.6%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:48		
Lab ID:	CS4_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 14:10						
Datafile:	140205S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	20.12	6.94E+07	1.06 Y	1.10	1.07	-2.5%	
SS PCB-111	29.73	4.51E+07	1.59 Y	1.03	1.00	-2.9%	
SS PCB-178	34.63	3.29E+07	1.04 Y	0.62	0.62	0.1%	
CS PCB-28	20.12	6.94E+07	1.06 Y	1.59	1.61	1.6%	
CS PCB-111	29.73	4.51E+07	1.59 Y	1.20	1.14	-4.4%	
CS PCB-178	34.63	3.29E+07	1.04 Y	0.94	0.94	0.2%	
JS PCB-9	14.12	8.26E+07	1.61 Y	-	-	-	
JS PCB-52	21.67	4.31E+07	0.76 Y	-	-	-	
JS PCB-101	27.46	3.95E+07	1.62 Y	-	-	-	
JS PCB-138	34.25	3.49E+07	1.28 Y	-	-	-	
JS PCB-194	44.33	2.42E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	10.20	4.39E+08	3.17 Y	1.21	1.25	3.0%	
PCB-3 4-MoCB	12.17	4.34E+08	3.16 Y	1.30	1.34	3.0%	
PCB-4 22'-DiCB	12.39	2.17E+08	1.53 Y	0.98	1.00	2.2%	
PCB-15 44'-DiCB	17.55	4.59E+08	1.54 Y	1.19	1.21	2.2%	
PCB-19 22'6'-TrCB	15.12	1.96E+08	1.03 Y	1.05	1.09	3.3%	
PCB-37 344'-TrCB	23.55	3.60E+08	1.06 Y	1.32	1.39	4.9%	
PCB-54 22'66'-TeCB	17.79	2.57E+08	0.79 Y	1.02	1.03	1.8%	
PCB-104 22'466'-PeCB	22.49	2.48E+08	0.65 Y	1.02	1.07	4.6%	
PCB-155 22'44'66'-HxCB	27.29	2.49E+08	1.26 Y	1.11	1.12	0.9%	
PCB-188 22'34'566'-HpCB	32.09	2.47E+08	1.07 Y	1.10	1.16	5.8%	
PCB-202 22'33'55'66'-OcCB	36.59	1.62E+08	0.89 Y	0.83	0.83	-0.1%	
PCB-205 233'44'55'6'-OcCB	44.75	1.44E+08	0.92 Y	1.11	1.17	5.1%	
PCB-208 22'33'455'66'-NoCB	42.19	1.41E+08	0.78 Y	1.01	1.05	3.5%	
PCB-206 22'33'44'55'6'-NoCB	46.21	1.01E+08	0.79 Y	1.01	1.04	2.6%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:48			
Lab ID:	CS4_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 14:10						
Datafile:	140205S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	10.20	4.39E+08	3.17 Y	1.21	1.25	3.0%	
PCB-2 3-MoCB	12.01	4.35E+08	3.19 Y	1.29	1.34	3.9%	
PCB-3 4-MoCB	12.17	4.34E+08	3.16 Y	1.30	1.34	3.0%	
PCB-4 22'-DiCB	12.39	2.17E+08	1.53 Y	0.98	1.00	2.2%	
PCB-10 26'-DiCB	12.54	3.44E+08	1.52 Y	1.53	1.59	3.5%	
PCB-9 25'-DiCB	14.14	3.84E+08	1.58 Y	1.04	1.02	-1.9%	
PCB-7 24'-DiCB	14.28	4.46E+08	1.58 Y	1.18	1.18	-0.3%	
PCB-6 23'-DiCB	14.49	4.11E+08	1.58 Y	1.11	1.09	-1.9%	
PCB-5 23'-DiCB	14.76	4.13E+08	1.57 Y	1.10	1.09	-1.0%	
PCB-8 24'-DiCB	14.87	4.27E+08	1.56 Y	1.13	1.13	-0.1%	
PCB-14 35'-DiCB	16.28	4.88E+08	1.54 Y	1.28	1.29	0.5%	
PCB-11 33'-DiCB	17.01	4.23E+08	1.56 Y	1.10	1.12	1.4%	
PCB-13/12 34'/34'-DiCB	17.28	8.74E+08	1.55 Y	1.11	1.16	3.6%	
PCB-15 44'-DiCB	17.55	4.59E+08	1.54 Y	1.19	1.21	2.2%	
PCB-19 22'6'-TrCB	15.12	1.96E+08	1.03 Y	1.05	1.09	3.3%	
PCB-30/18 246/22'5'-TrCB	16.73	5.13E+08	1.02 Y	1.33	1.42	6.7%	
PCB-17 22'4'-TrCB	17.10	2.19E+08	1.03 Y	1.15	1.21	4.8%	
PCB-27 23'6'-TrCB	17.29	3.09E+08	1.02 Y	1.56	1.71	9.4%	
PCB-24 236'-TrCB	17.40	2.83E+08	1.01 Y	1.50	1.56	4.5%	
PCB-16 22'3'-TrCB	17.49	1.69E+08	1.02 Y	0.88	0.93	6.4%	
PCB-32 24'6'-TrCB	17.94	3.20E+08	1.01 Y	1.74	1.77	1.8%	
PCB-34 23'5'-TrCB	19.03	3.48E+08	1.08 Y	1.33	1.34	1.0%	
PCB-23 235'-TrCB	19.16	3.65E+08	1.06 Y	1.40	1.41	1.1%	
PCB-26/29 23'5'/245'-TrCB	19.43	7.52E+08	1.08 Y	1.41	1.45	3.0%	
PCB-25 23'4'-TrCB	19.62	3.80E+08	1.08 Y	1.41	1.47	4.1%	
PCB-31 24'5'-TrCB	19.89	3.87E+08	1.08 Y	1.46	1.49	2.2%	
PCB-28/20 244'/233'-TrCB	20.15	7.37E+08	1.08 Y	1.39	1.42	2.3%	
PCB-21/33 234/23'4'-TrCB	20.31	7.73E+08	1.07 Y	1.42	1.49	5.2%	
PCB-22 234'-TrCB	20.68	3.40E+08	1.08 Y	1.29	1.31	1.7%	
PCB-36 33'5'-TrCB	22.01	3.79E+08	1.07 Y	1.42	1.46	3.3%	
PCB-39 34'5'-TrCB	22.31	3.92E+08	1.07 Y	1.45	1.51	4.1%	
PCB-38 345'-TrCB	22.80	3.62E+08	1.06 Y	1.30	1.40	7.1%	
PCB-35 33'4'-TrCB	23.20	3.38E+08	1.07 Y	1.25	1.31	4.8%	
PCB-37 344'-TrCB	23.55	3.60E+08	1.06 Y	1.32	1.39	4.9%	
PCB-54 22'66'-TeCB	17.79	2.57E+08	0.79 Y	1.02	1.03	1.8%	
PCB-50/53 22'46'/22'56'-TeCB	19.66	4.04E+08	0.79 Y	0.85	0.87	2.6%	
PCB-45 22'36'-TeCB	20.21	1.81E+08	0.79 Y	0.71	0.78	9.4%	
PCB-51 22'46'-TeCB	20.28	1.99E+08	0.80 Y	0.88	0.86	-2.3%	
PCB-46 22'36'-TeCB	20.48	1.57E+08	0.79 Y	0.68	0.68	-0.2%	
PCB-52 22'55'-TeCB	21.69	1.85E+08	0.79 Y	0.80	0.80	-0.7%	
PCB-73 23'5'6'-TeCB	21.81	2.44E+08	0.80 Y	1.07	1.05	-1.1%	
PCB-43 22'35'-TeCB	21.89	1.59E+08	0.79 Y	0.68	0.69	0.7%	
PCB-69/49 23'46'/22'45'-TeCB	22.08	4.61E+08	0.80 Y	0.97	1.00	2.3%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:48			
Lab ID:	CS4_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 14:10						
Datafile:	140205S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.35	1.90E+08	0.79 Y	0.80	0.82	2.3%	
PCB-44/47/65 ...-TeCB	22.56	6.19E+08	0.80 Y	0.87	0.89	2.0%	
PCB-59/62/75 ...-TeCB	22.82	8.08E+08	0.78 Y	1.11	1.16	4.5%	
PCB-42 22'34'-TeCB	22.98	1.72E+08	0.79 Y	0.73	0.74	1.7%	
PCB-41 22'34'-TeCB	23.30	1.49E+08	0.79 Y	0.66	0.64	-2.2%	
PCB-71/40 23'4'6/22'33'-TeCB	23.40	3.96E+08	0.78 Y	0.82	0.85	3.6%	
PCB-64 23'4'6'-TeCB	23.59	2.79E+08	0.77 Y	1.20	1.20	0.8%	
PCB-72 23'55'-TeCB	24.30	3.22E+08	0.80 Y	1.39	1.39	0.3%	
PCB-68 23'45'-TeCB	24.55	3.44E+08	0.78 Y	1.49	1.48	-0.3%	
PCB-57 23'3'5'-TeCB	24.90	3.06E+08	0.79 Y	1.33	1.32	-0.7%	
PCB-58 23'3'5'-TeCB	25.10	3.24E+08	0.80 Y	1.38	1.40	1.3%	
PCB-67 23'45'-TeCB	25.24	3.49E+08	0.80 Y	1.47	1.51	2.4%	
PCB-63 23'4'5'-TeCB	25.46	3.59E+08	0.79 Y	1.50	1.55	3.0%	
PCB-61/70/74/76 ...-TeCB	25.74	1.34E+09	0.79 Y	1.38	1.44	4.1%	
PCB-66 23'44'-TeCB	26.02	3.04E+08	0.79 Y	1.28	1.31	2.7%	
PCB-55 23'3'4'-TeCB	26.16	3.06E+08	0.78 Y	1.33	1.32	-0.7%	
PCB-56 23'3'4'-TeCB	26.59	2.90E+08	0.79 Y	1.25	1.25	0.1%	
PCB-60 23'44'-TeCB	26.77	3.15E+08	0.78 Y	1.34	1.36	1.0%	
PCB-80 33'55'-TeCB	27.12	3.53E+08	0.79 Y	1.51	1.52	1.1%	
PCB-79 33'45'-TeCB	28.40	3.80E+08	0.79 Y	1.55	1.64	6.1%	
PCB-78 33'45'-TeCB	28.87	2.86E+08	0.78 Y	1.25	1.23	-1.2%	
PCB-104 22'466'-PeCB	22.49	2.48E+08	0.65 Y	1.02	1.07	4.6%	
PCB-96 22'366'-PeCB	22.81	2.25E+08	0.65 Y	0.90	0.97	7.1%	
PCB-103 22'45'6'-PeCB	24.45	1.64E+08	0.62 Y	0.92	0.91	-0.8%	
PCB-94 22'356'-PeCB	24.63	1.44E+08	0.63 Y	0.79	0.80	0.2%	
PCB-95 22'35'6'-PeCB	25.01	1.54E+08	0.63 Y	0.85	0.85	0.6%	
PCB-100/93 22'44'6/22'356'-PeCB	25.20	3.21E+08	0.63 Y	0.88	0.89	0.8%	
PCB-102 22'456'-PeCB	25.31	1.84E+08	0.62 Y	0.95	1.02	7.1%	
PCB-98 22'34'6'-PeCB	25.38	1.36E+08	0.63 Y	0.76	0.75	-1.6%	
PCB-88 22'346'-PeCB	25.66	1.56E+08	0.61 Y	0.80	0.86	8.2%	
PCB-91 22'34'6'-PeCB	25.74	1.66E+08	0.62 Y	0.90	0.92	1.5%	
PCB-84 22'33'6'-PeCB	25.92	1.29E+08	0.62 Y	0.71	0.71	0.5%	
PCB-89 22'346'-PeCB	26.33	1.35E+08	0.61 Y	0.76	0.75	-1.0%	
PCB-121 23'45'6'-PeCB	26.68	2.09E+08	0.62 Y	1.15	1.16	0.8%	
PCB-92 22'355'-PeCB	27.00	1.42E+08	0.62 Y	0.80	0.79	-2.0%	
PCB-113/90/101 ...-PeCB	27.46	5.30E+08	0.61 Y	0.94	0.98	4.1%	
PCB-83 22'33'5'-PeCB	27.89	1.31E+08	0.62 Y	0.68	0.72	5.7%	
PCB-99 22'44'5'-PeCB	27.98	1.56E+08	0.61 Y	0.88	0.86	-2.1%	
PCB-112 23'3'56'-PeCB	28.08	1.93E+08	0.61 Y	1.08	1.07	-1.5%	
PCB-109/119/86/97/125...-PeCB	28.41	1.08E+09	0.61 Y	0.96	1.00	4.2%	
PCB-117 23'4'56'-PeCB	28.93	1.99E+08	0.61 Y	1.00	1.10	9.7%	
PCB-116/85 23'456/22'344'-PeCB	29.01	3.36E+08	0.62 Y	0.95	0.93	-1.8%	
PCB-110 23'3'4'6'-PeCB	29.15	1.98E+08	0.61 Y	1.06	1.09	3.7%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:48			
Lab ID:	CS4_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 14:10						
Datafile:	140205S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	29.21	1.98E+08	0.62 Y	1.09	1.10	0.7%	
PCB-82 22'33'4-PeCB	29.41	1.23E+08	0.61 Y	0.67	0.68	2.0%	
PCB-111 233'55'-PeCB	29.75	2.09E+08	0.61 Y	1.15	1.16	0.7%	
PCB-120 23'455'-PeCB	30.13	2.07E+08	0.61 Y	1.13	1.15	1.6%	
PCB-108/124 ...-PeCB	31.08	3.83E+08	0.63 Y	1.03	1.06	3.2%	
PCB-107 233'4'5-PeCB	31.29	2.01E+08	0.63 Y	1.11	1.11	0.3%	
PCB-106 233'45-PeCB	31.49	1.84E+08	0.62 Y	1.02	1.02	-0.4%	
PCB-122 233'4'5'-PeCB	31.95	1.74E+08	0.62 Y	0.92	0.95	2.4%	
PCB-127 33'455'-PeCB	33.89	1.87E+08	0.62 Y	0.96	1.01	5.9%	
PCB-155 22'44'66'-HxCB	27.29	2.49E+08	1.26 Y	1.11	1.12	0.9%	
PCB-152 22'3566'-HxCB	27.45	2.45E+08	1.26 Y	1.03	1.10	6.8%	
PCB-150 22'34'66'-HxCB	27.59	2.37E+08	1.27 Y	1.00	1.06	5.6%	
PCB-136 22'33'66'-HxCB	27.90	2.20E+08	1.26 Y	0.96	0.98	2.4%	
PCB-145 22'3466'-HxCB	28.15	2.21E+08	1.27 Y	0.97	0.99	2.1%	
PCB-148 22'34'56'-HxCB	29.42	1.72E+08	1.27 Y	1.07	1.11	3.2%	
PCB-151/135 ...-HxCB	29.94	3.20E+08	1.27 Y	1.02	1.03	1.2%	
PCB-154 22'44'56'-HxCB	30.13	1.90E+08	1.27 Y	1.16	1.22	4.8%	
PCB-144 22'345'6-HxCB	30.39	1.61E+08	1.27 Y	1.02	1.04	1.6%	
PCB-147/149 ...-HxCB	30.69	3.34E+08	1.23 Y	1.03	1.08	4.0%	
PCB-134 22'33'56-HxCB	30.87	1.35E+08	1.23 Y	0.82	0.87	5.0%	
PCB-143 22'3456'-HxCB	30.94	1.50E+08	1.25 Y	0.98	0.96	-1.8%	
PCB-139/140 ...-HxCB	31.19	3.45E+08	1.25 Y	1.07	1.11	3.9%	
PCB-131 22'33'46-HxCB	31.37	1.46E+08	1.27 Y	0.92	0.94	2.4%	
PCB-142 22'3456-HxCB	31.49	1.48E+08	1.26 Y	0.91	0.95	5.2%	
PCB-132 22'33'46'-HxCB	31.75	1.47E+08	1.26 Y	0.93	0.94	1.5%	
PCB-133 22'33'55'-HxCB	32.17	1.56E+08	1.26 Y	0.96	1.00	4.4%	
PCB-165 233'55'6-HxCB	32.51	1.86E+08	1.27 Y	1.18	1.20	1.8%	
PCB-146 22'34'55'-HxCB	32.71	1.74E+08	1.26 Y	1.10	1.12	1.9%	
PCB-161 233'45'6-HxCB	32.82	2.17E+08	1.27 Y	1.35	1.40	3.2%	
PCB-153/168 ...-HxCB	33.25	4.10E+08	1.26 Y	1.29	1.32	2.4%	
PCB-141 22'3455'-HxCB	33.39	1.50E+08	1.28 Y	0.96	0.97	0.3%	
PCB-130 22'33'45'-HxCB	33.73	1.32E+08	1.26 Y	0.85	0.85	-0.8%	
PCB-137 22'344'5-HxCB	33.92	1.72E+08	1.26 Y	1.05	1.11	5.5%	
PCB-164 233'4'5'6-HxCB	34.01	2.01E+08	1.25 Y	1.26	1.30	2.6%	
PCB-163/138/129 ...-HxCB	34.29	5.08E+08	1.23 Y	1.06	1.09	3.0%	
PCB-160 233'456-HxCB	34.41	1.94E+08	1.25 Y	1.24	1.25	0.6%	
PCB-158 233'44'6-HxCB	34.60	2.16E+08	1.25 Y	1.34	1.39	3.6%	
PCB-128/166 ...-HxCB	35.32	3.27E+08	1.25 Y	0.93	0.99	6.5%	
PCB-159 233'455'-HxCB	36.15	1.88E+08	1.26 Y	1.09	1.14	4.7%	
PCB-162 233'4'55'-HxCB	36.39	1.82E+08	1.25 Y	1.08	1.10	1.8%	
PCB-188 22'34'566'-HpCB	32.09	2.47E+08	1.07 Y	1.10	1.16	5.8%	
PCB-179 22'33'566'-HpCB	32.38	2.16E+08	1.07 Y	1.01	1.02	0.5%	
PCB-184 22'344'66'-HpCB	32.81	2.24E+08	1.06 Y	1.02	1.06	3.7%	

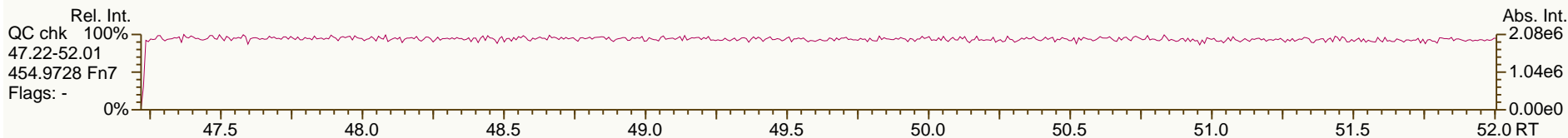
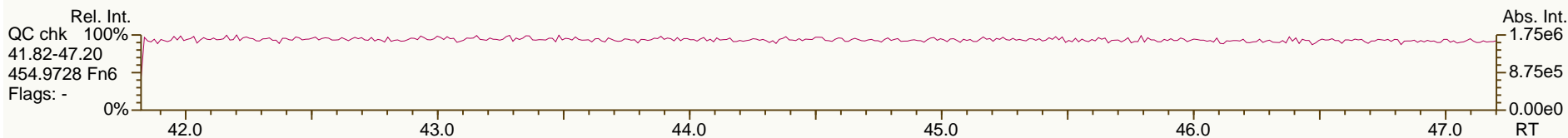
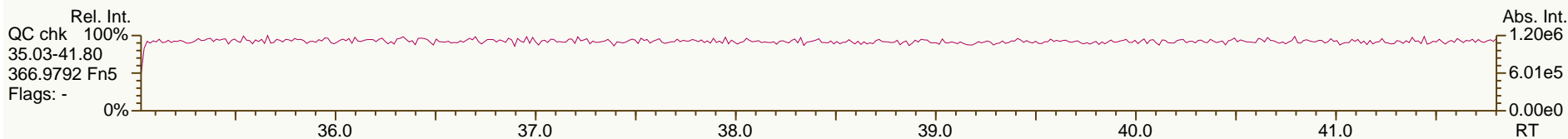
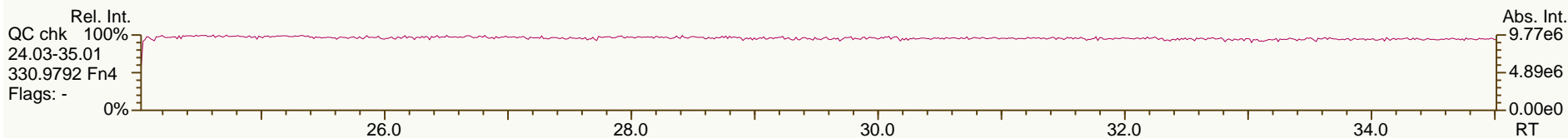
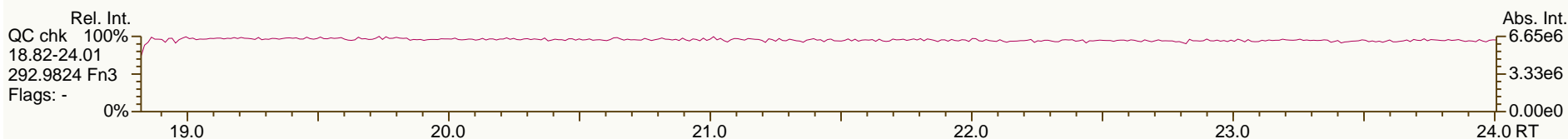
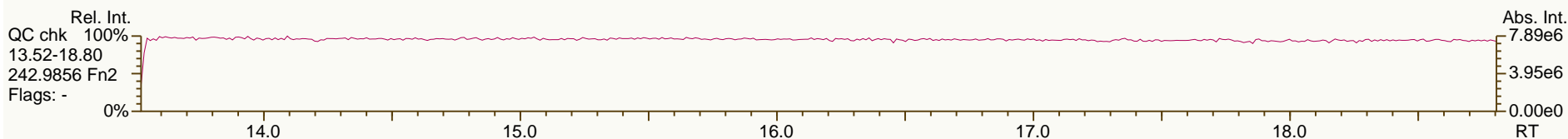
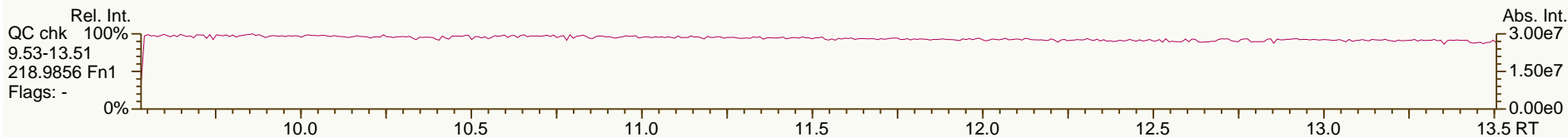


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Acquired:	05-FEB-2014 14:10						
Datafile:	140205S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	33.11	2.35E+08	1.06 Y	1.08	1.11	2.3%	
PCB-186 22'34566'-HpCB	33.50	2.24E+08	1.07 Y	1.02	1.06	3.4%	
PCB-178 22'33'55'6'-HpCB	34.65	1.64E+08	1.08 Y	0.75	0.77	2.7%	
PCB-175 22'33'45'6'-HpCB	35.18	1.42E+08	1.01 Y	0.99	0.98	-0.8%	
PCB-187 22'34'55'6'-HpCB	35.41	1.54E+08	1.02 Y	1.05	1.07	2.4%	
PCB-182 22'344'56'-HpCB	35.58	1.55E+08	1.01 Y	1.08	1.07	-0.5%	
PCB-183 22'344'5'6'-HpCB	35.92	1.53E+08	1.04 Y	1.07	1.06	-0.9%	
PCB-185 22'3455'6'-HpCB	36.00	1.47E+08	1.05 Y	0.97	1.02	5.2%	
PCB-174 22'33'456'-HpCB	36.12	1.31E+08	1.05 Y	0.89	0.91	2.4%	
PCB-177 22'33'45'6'-HpCB	36.49	1.27E+08	1.02 Y	0.87	0.88	0.9%	
PCB-181 22'344'56'-HpCB	36.82	1.50E+08	1.02 Y	0.98	1.04	5.7%	
PCB-171/173 ...-HpCB	37.00	2.57E+08	1.02 Y	0.87	0.89	2.1%	
PCB-172 22'33'455'-HpCB	38.37	1.27E+08	1.01 Y	0.88	0.88	0.0%	
PCB-192 233'455'6'-HpCB	38.61	1.67E+08	1.02 Y	1.16	1.16	0.1%	
PCB-180/193 ...-HpCB	38.89	3.19E+08	1.02 Y	1.08	1.11	2.8%	
PCB-191 233'44'5'6'-HpCB	39.21	1.74E+08	1.04 Y	1.17	1.20	2.6%	
PCB-170 22'33'44'5'-HpCB	39.98	1.22E+08	1.04 Y	1.03	1.06	3.5%	
PCB-190 233'44'56'-HpCB	40.42	1.74E+08	1.03 Y	1.44	1.52	5.2%	
PCB-202 22'33'55'66'-OcCB	36.59	1.62E+08	0.89 Y	0.83	0.83	-0.1%	
PCB-201 22'33'45'66'-OcCB	37.36	1.79E+08	0.89 Y	0.88	0.92	3.5%	
PCB-204 22'344'566'-OcCB	37.93	1.71E+08	0.88 Y	0.86	0.87	1.5%	
PCB-197 22'33'44'66'-OcCB	38.11	1.79E+08	0.88 Y	0.93	0.91	-1.7%	
PCB-200 22'33'4566'-OcCB	38.21	1.78E+08	0.89 Y	0.86	0.91	5.2%	
PCB-198/199 ...-OcCB	40.54	2.53E+08	0.89 Y	0.61	0.65	6.2%	
PCB-196 22'33'44'56'-OcCB	41.11	1.26E+08	0.88 Y	0.62	0.64	3.4%	
PCB-203 22'344'55'6'-OcCB	41.27	1.34E+08	0.88 Y	0.65	0.68	4.3%	
PCB-195 22'33'44'56'-OcCB	42.39	1.03E+08	0.90 Y	0.81	0.83	2.8%	
PCB-194 22'33'44'55'-OcCB	44.35	1.12E+08	0.91 Y	0.89	0.91	2.7%	
PCB-205 233'44'55'6'-OcCB	44.75	1.44E+08	0.92 Y	1.11	1.17	5.1%	
PCB-208 22'33'455'66'-NoCB	42.19	1.41E+08	0.78 Y	1.01	1.05	3.5%	
PCB-207 22'33'44'566'-NoCB	42.96	1.46E+08	0.78 Y	1.06	1.09	2.6%	
PCB-206 22'33'44'55'6'-NoCB	46.21	1.01E+08	0.79 Y	1.01	1.04	2.6%	

SGS-AP ID: CS4\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

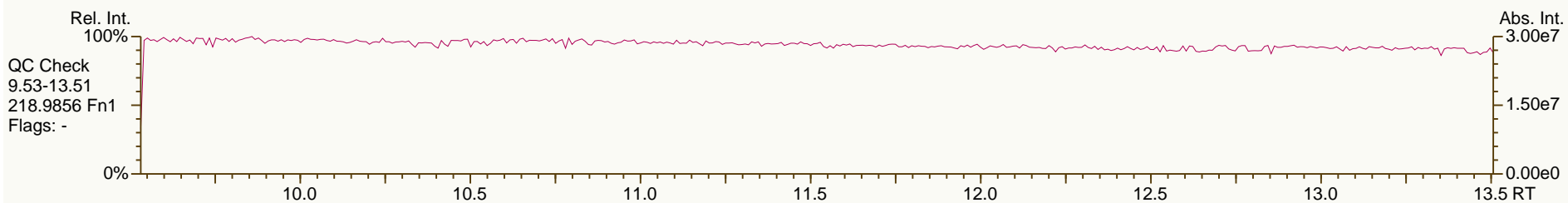
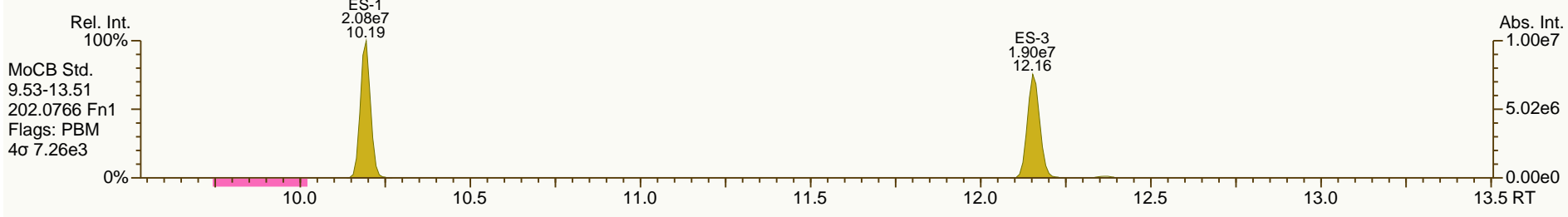
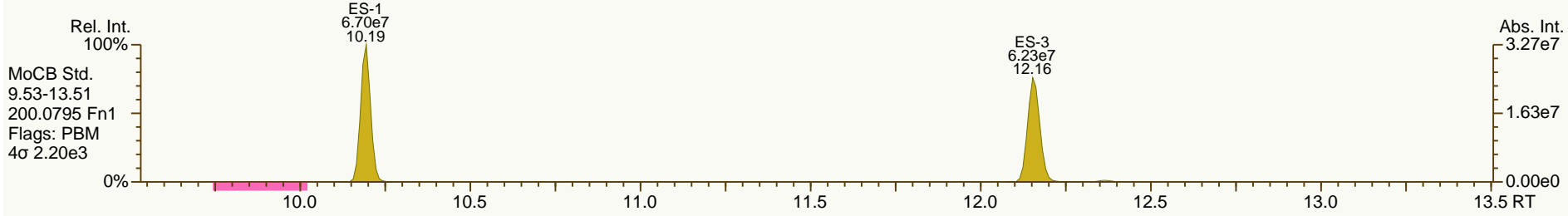
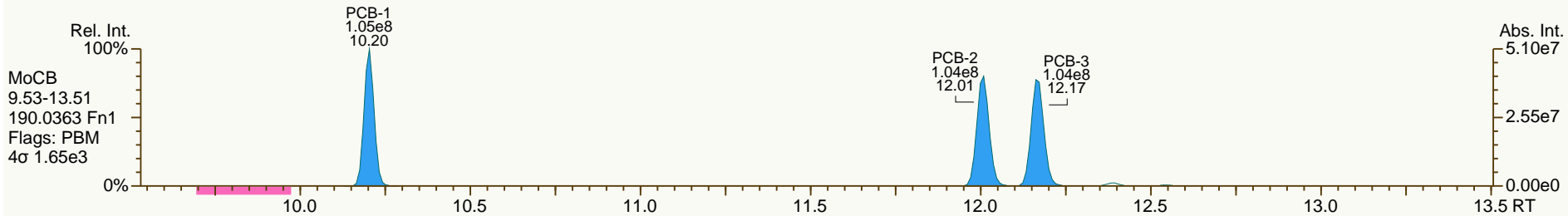
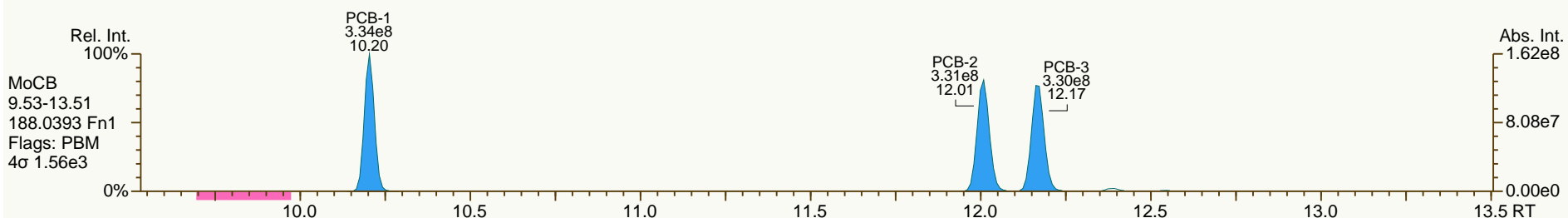
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

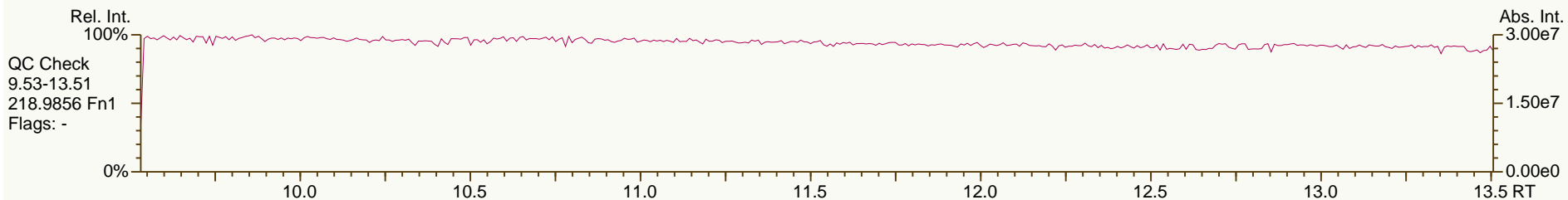
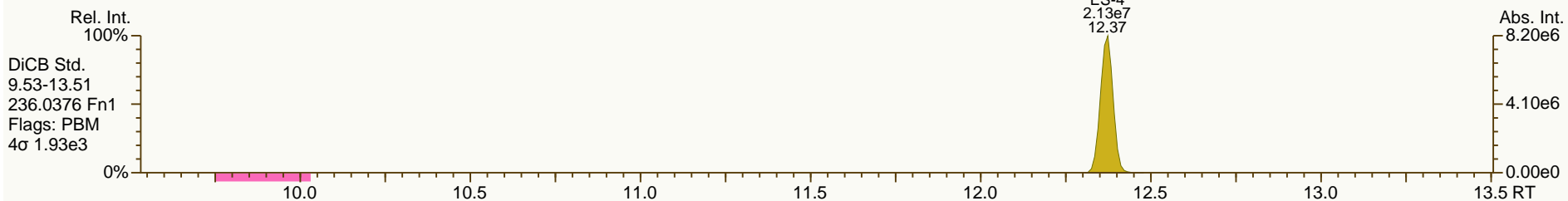
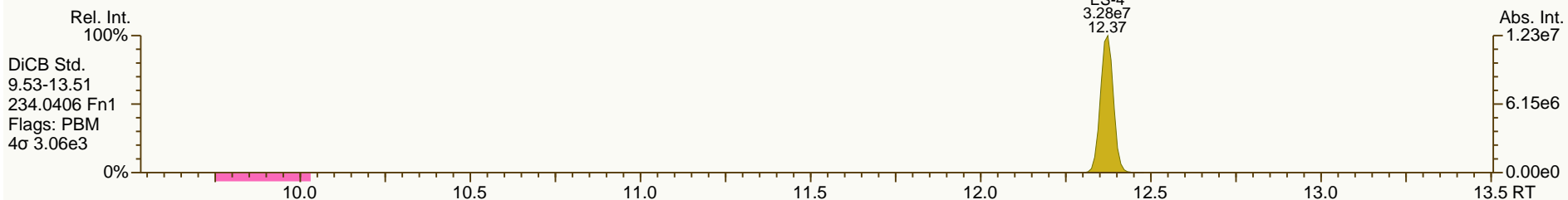
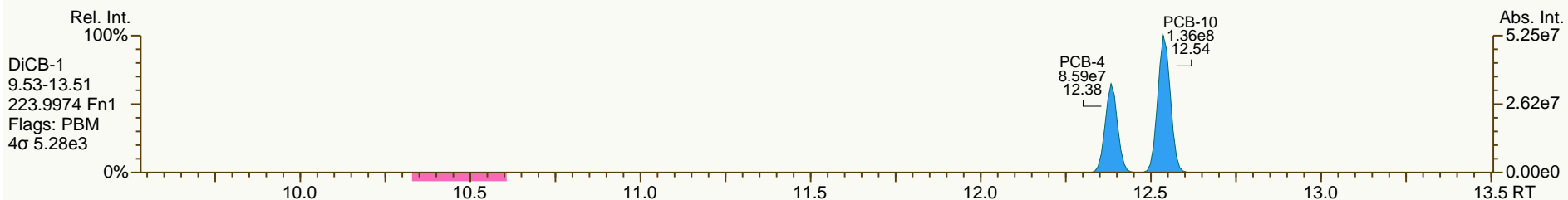
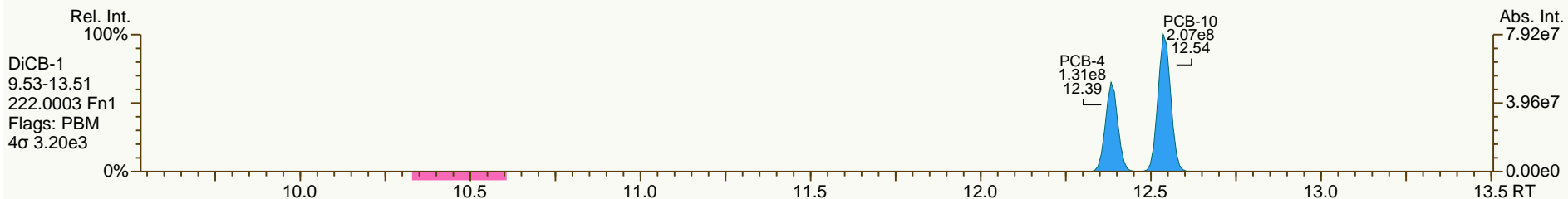
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

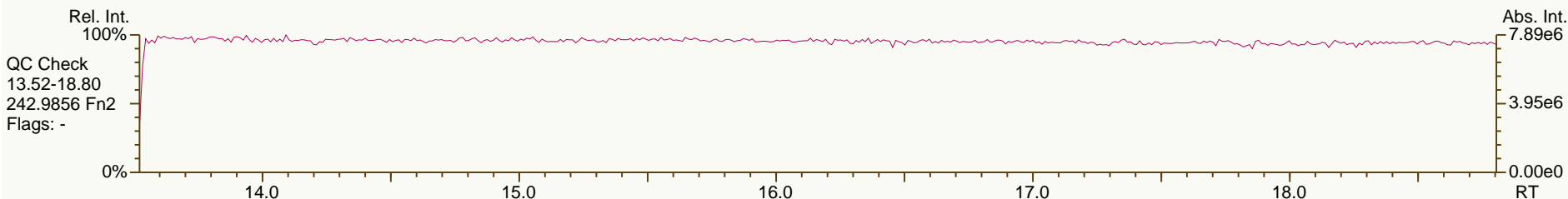
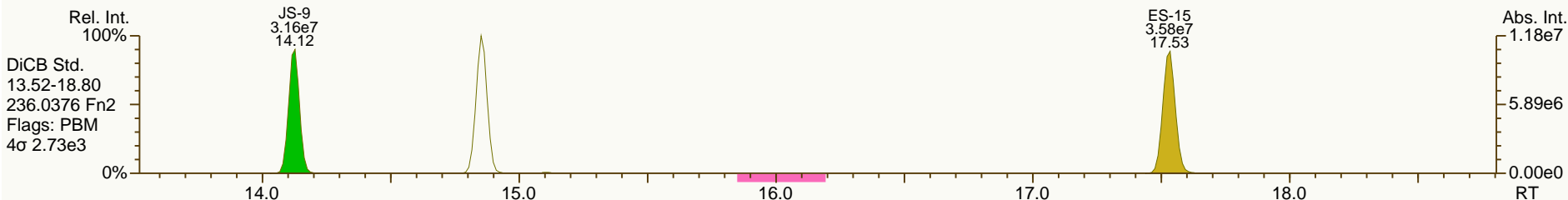
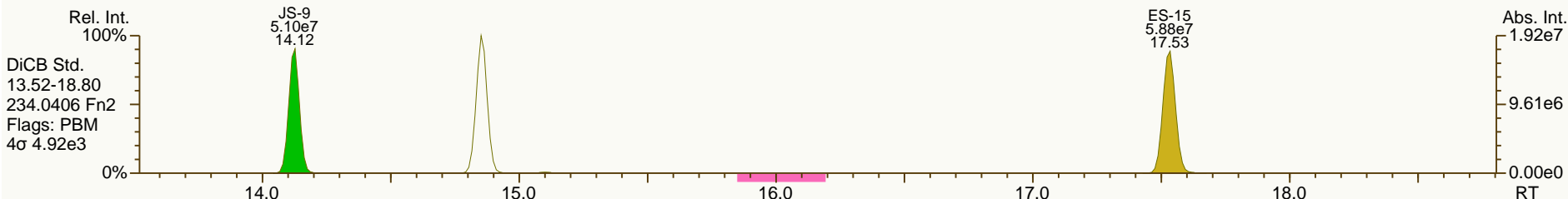
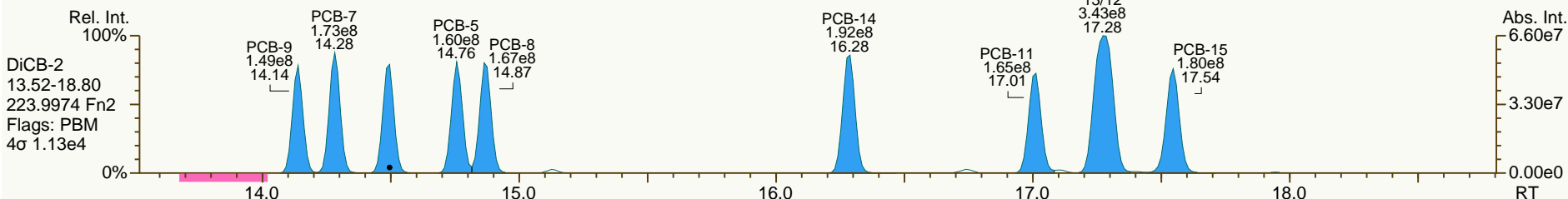
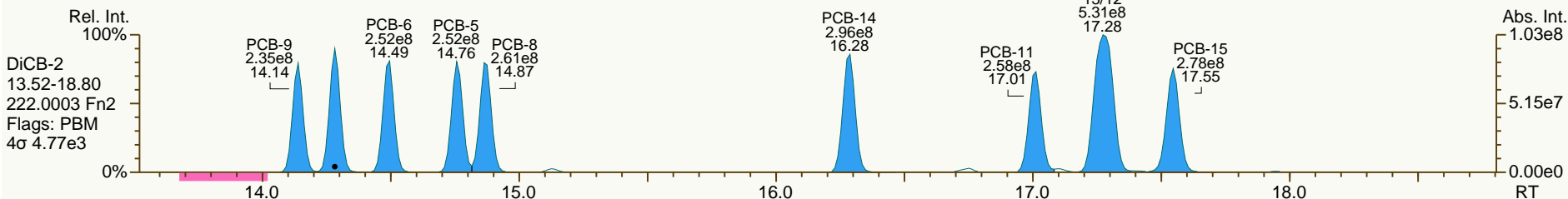
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

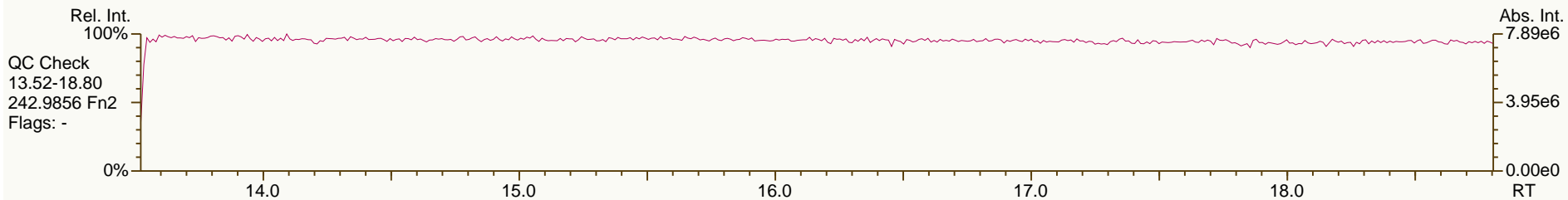
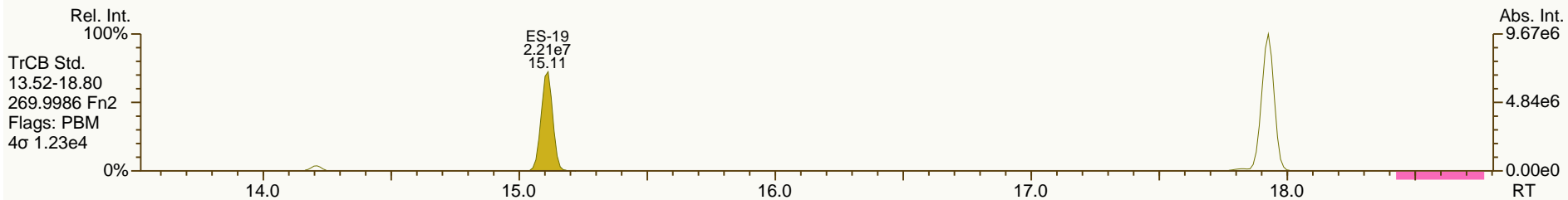
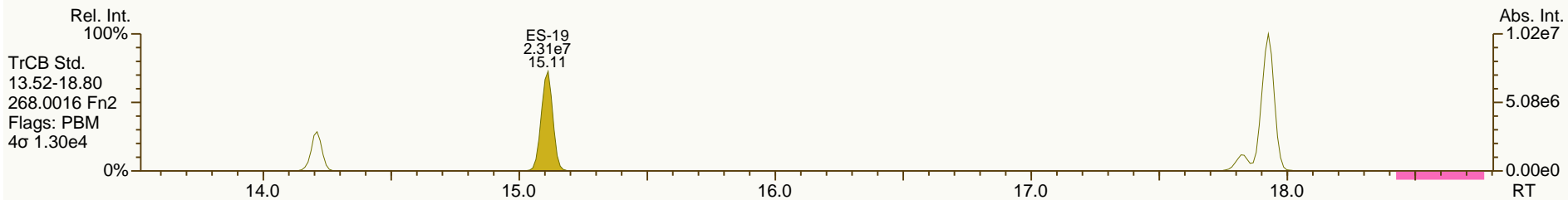
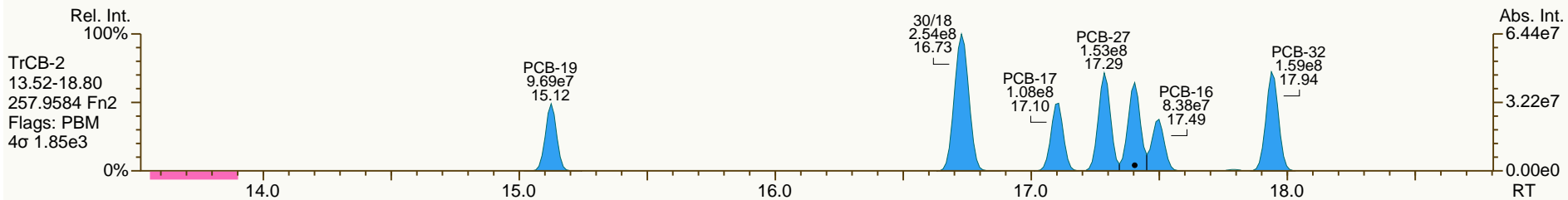
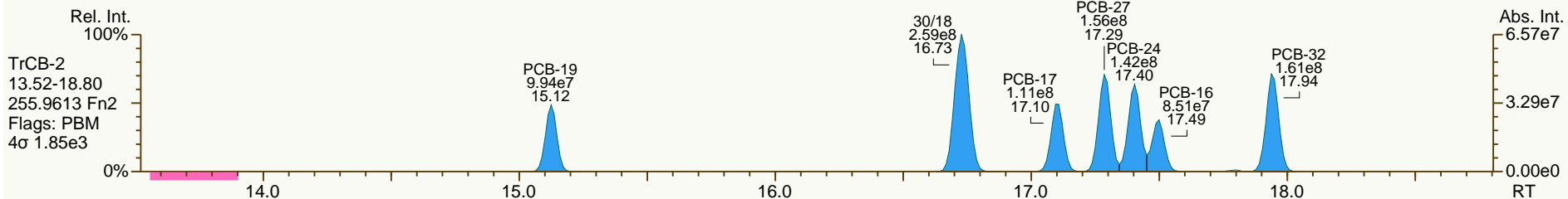
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

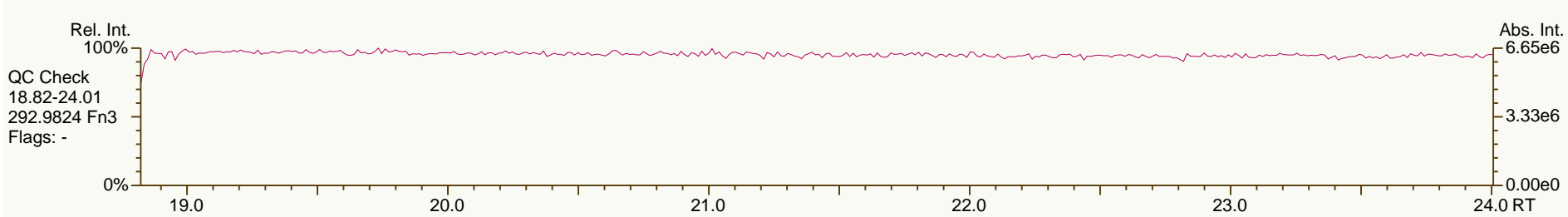
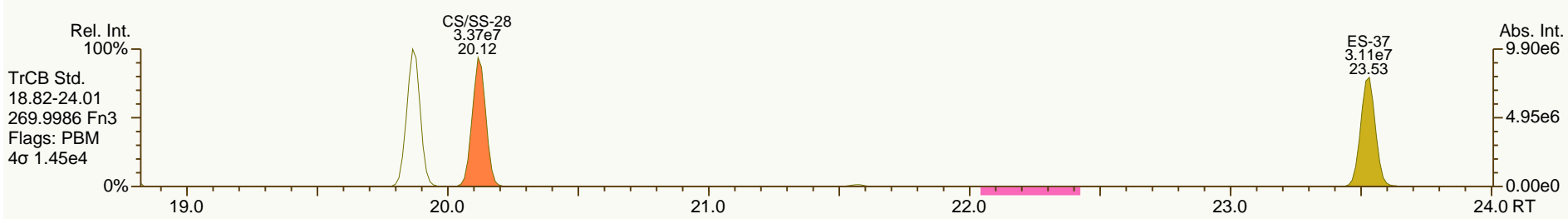
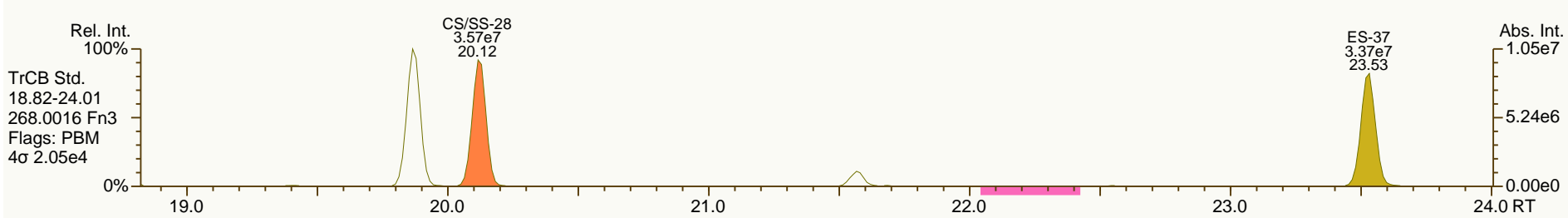
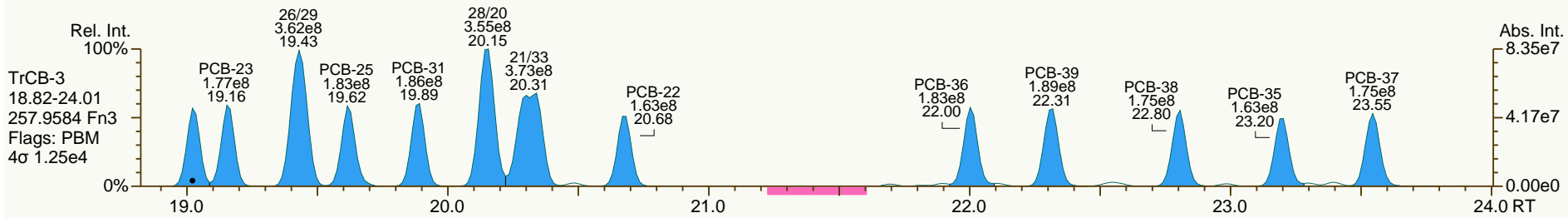
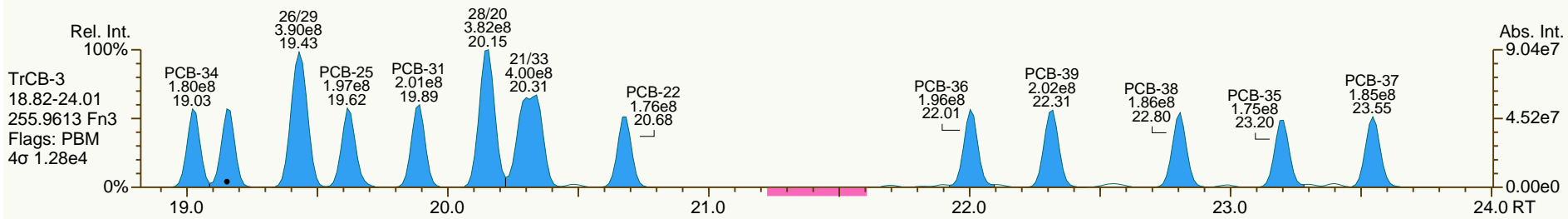
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

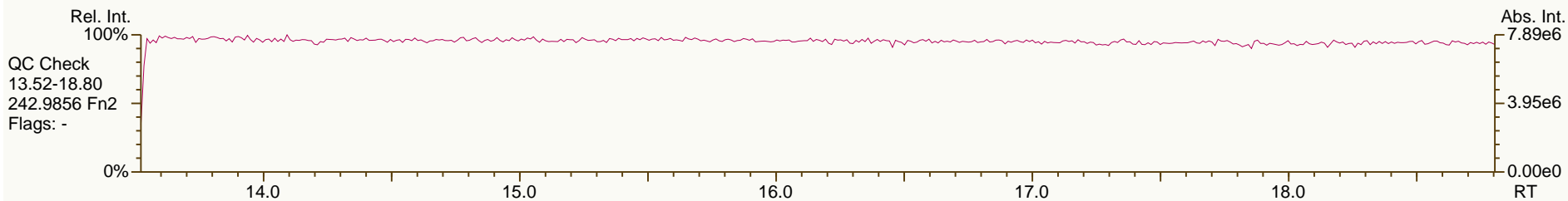
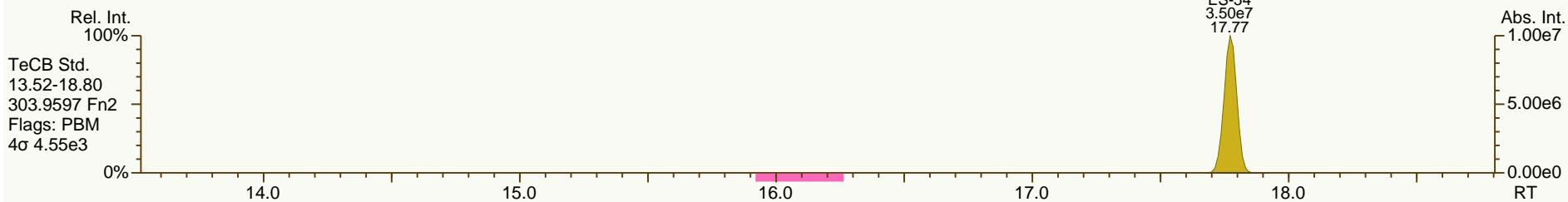
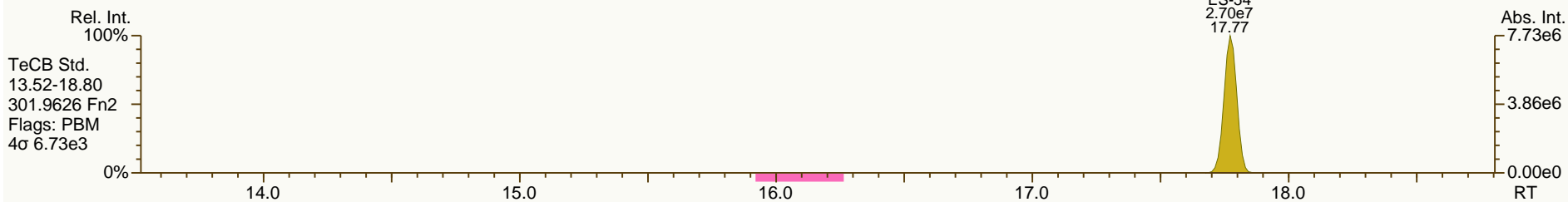
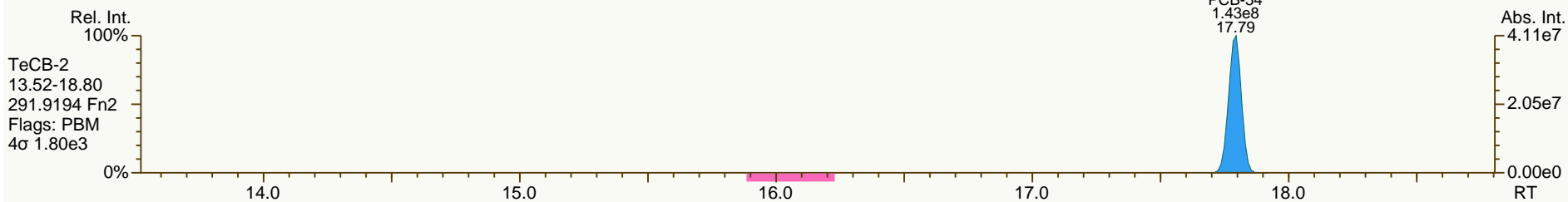
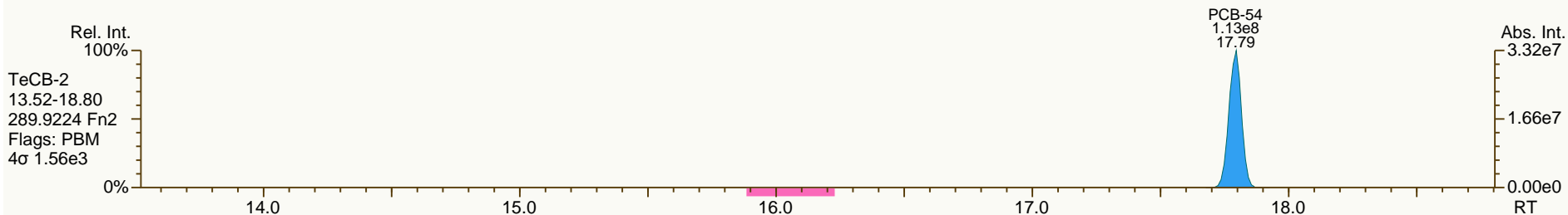
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

Acq: 05-Feb-2014 14:10:02  
 User: CTW Datafile: 140205S06

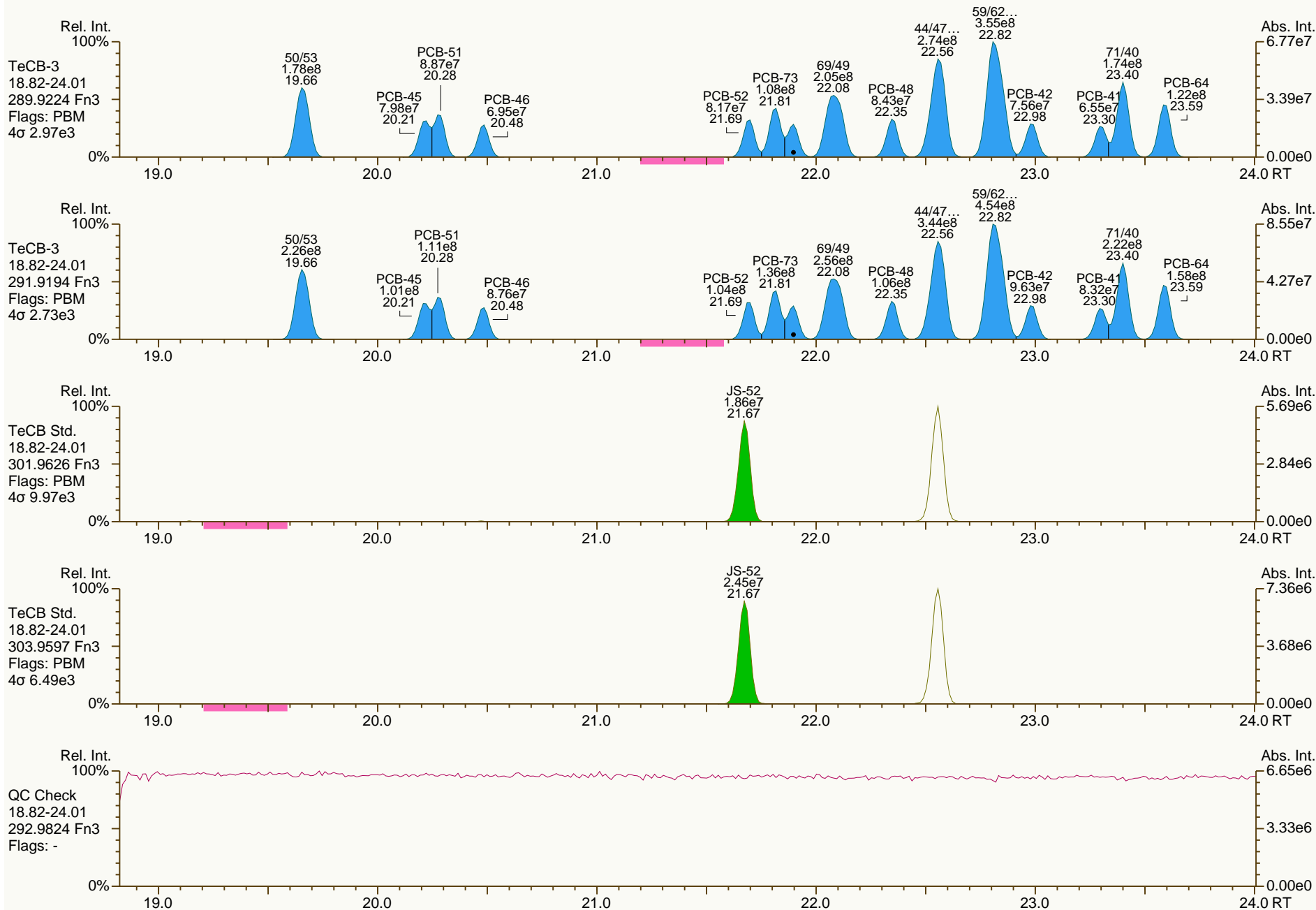




SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
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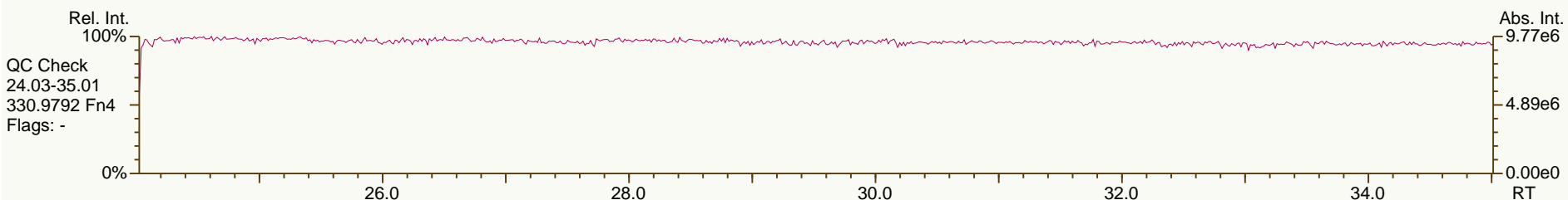
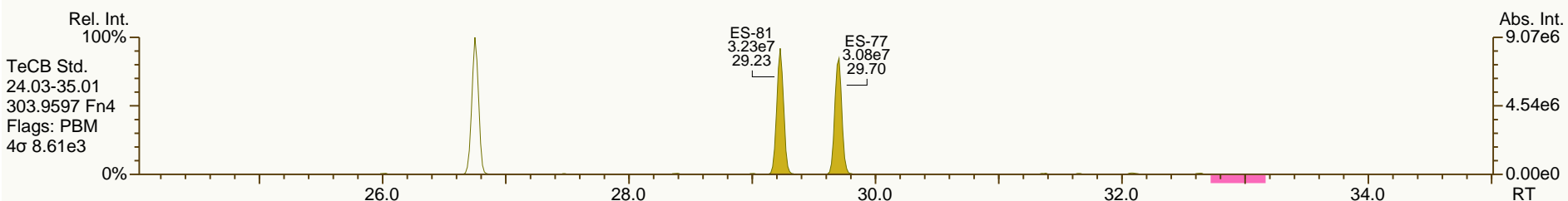
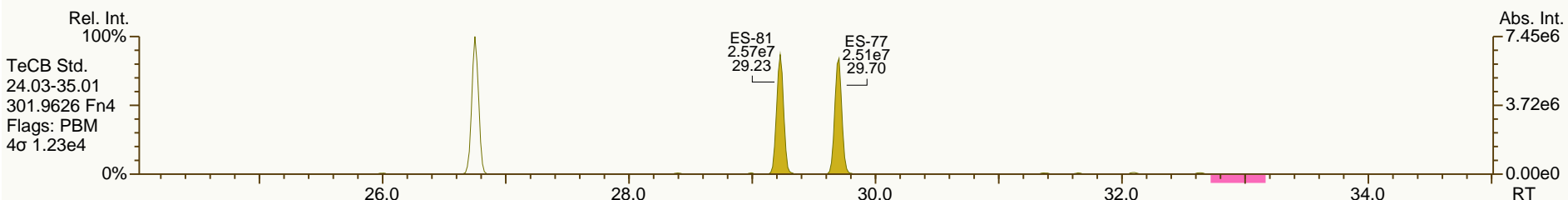
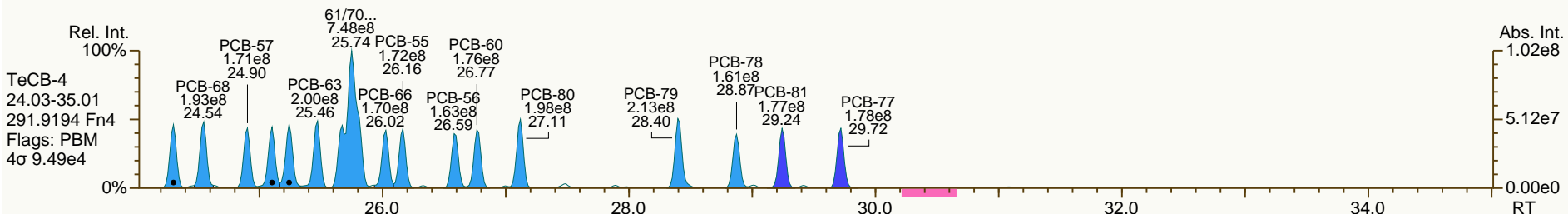
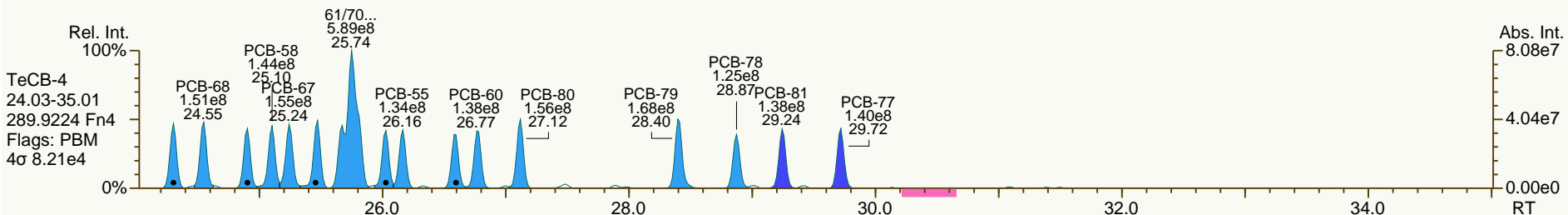
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

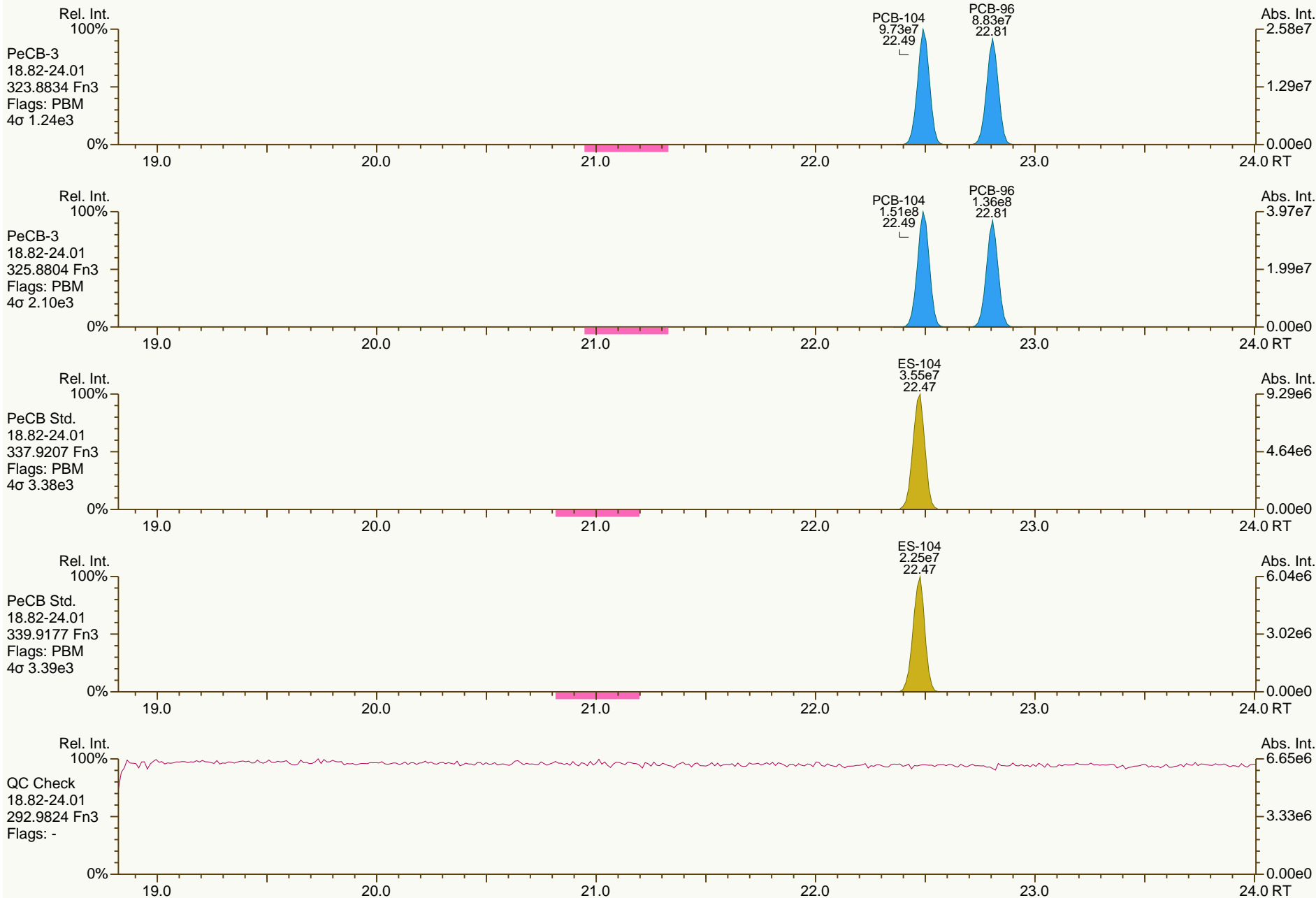
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SGS-AP ID: CS4\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

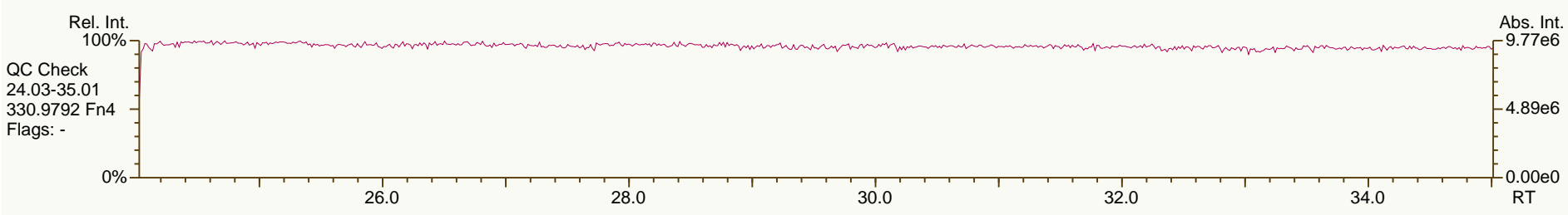
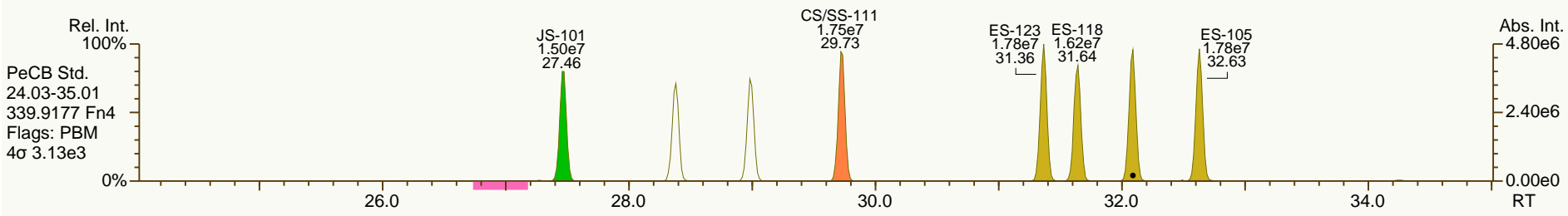
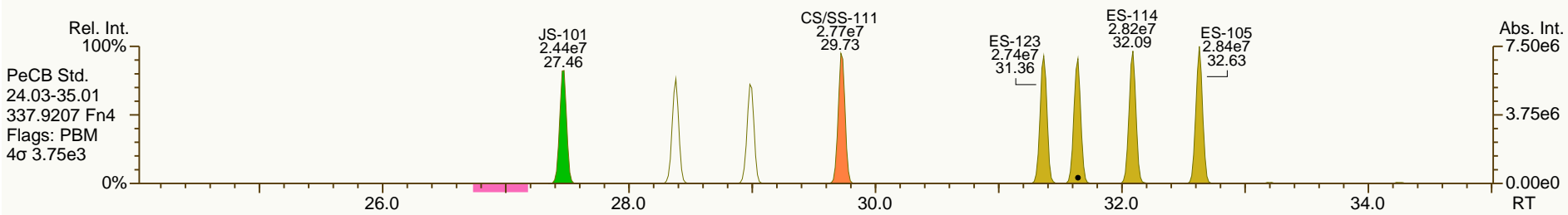
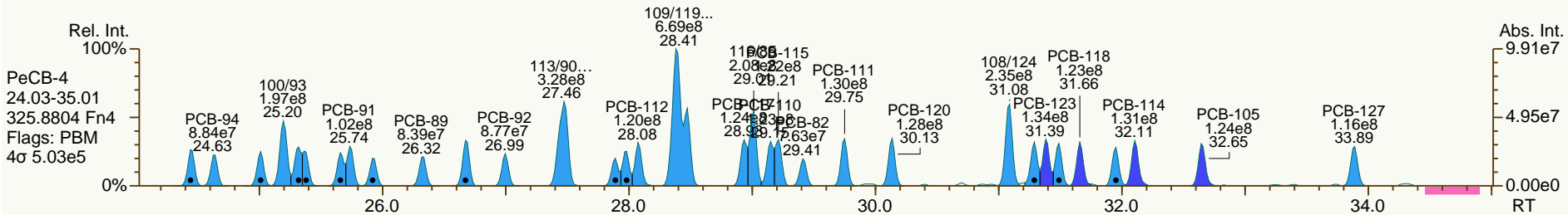
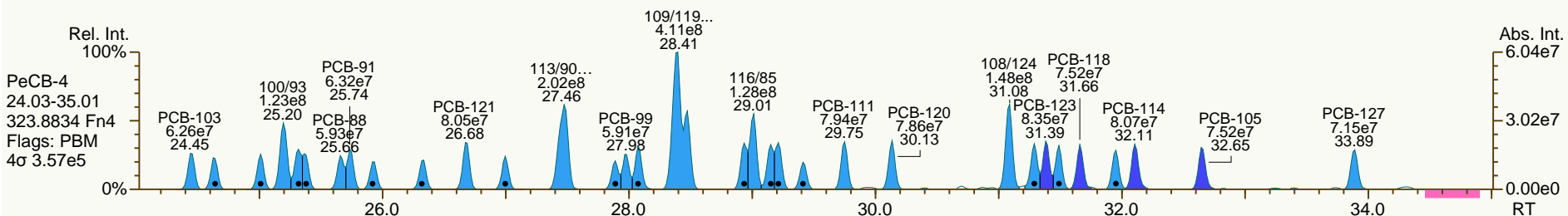
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User: CTW Datafile: 140205S06



SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

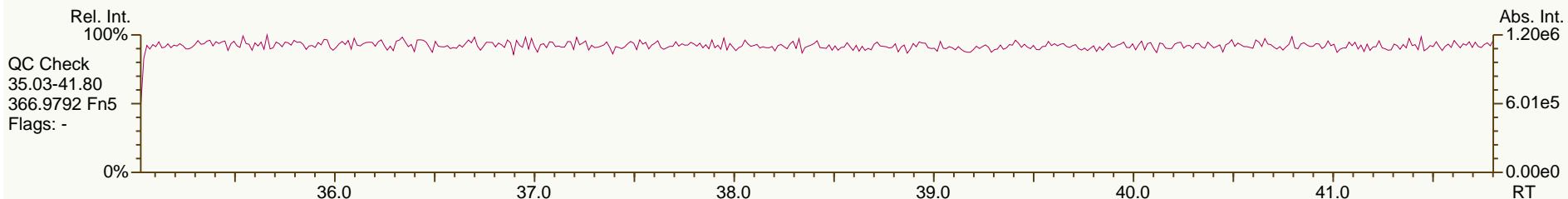
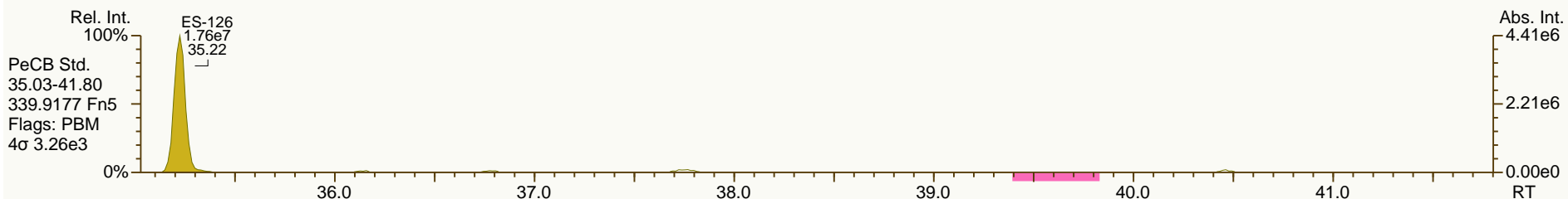
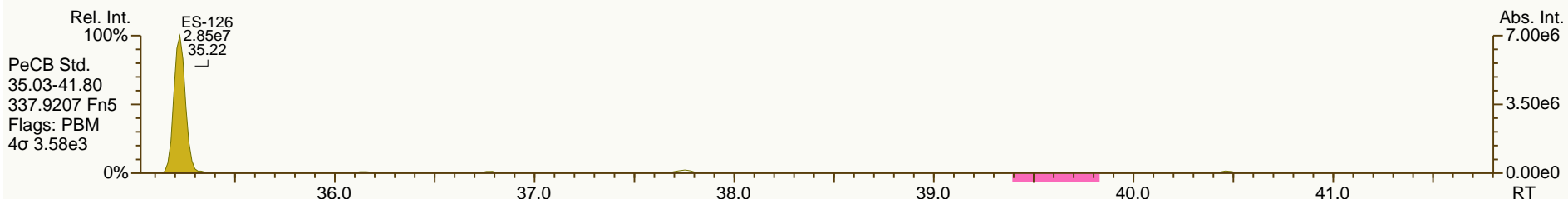
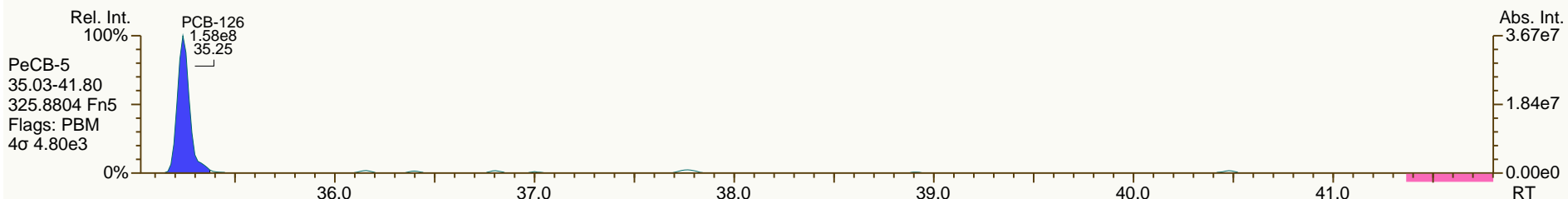
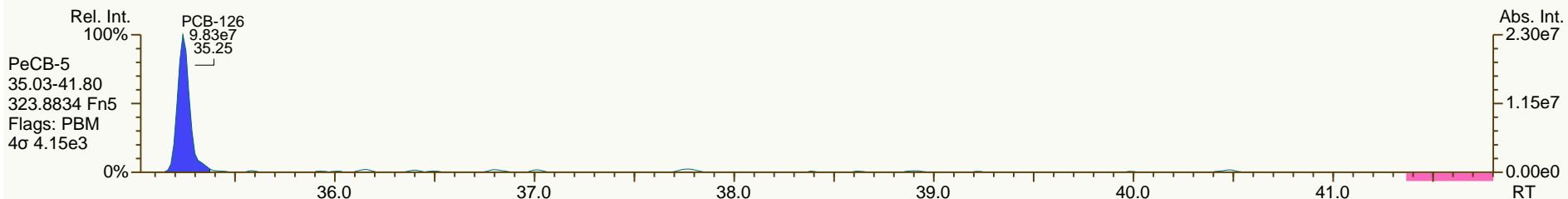
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

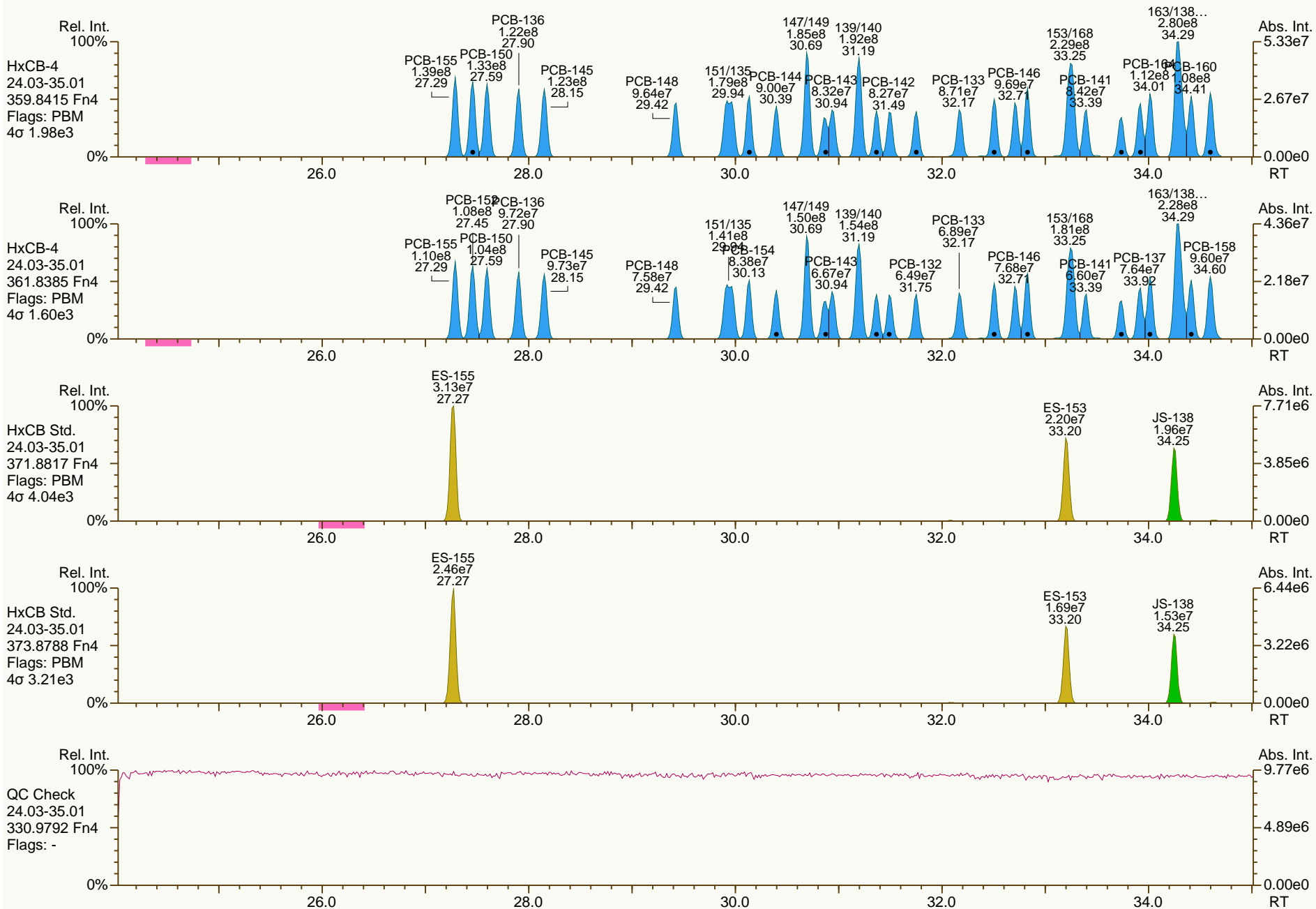
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

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 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

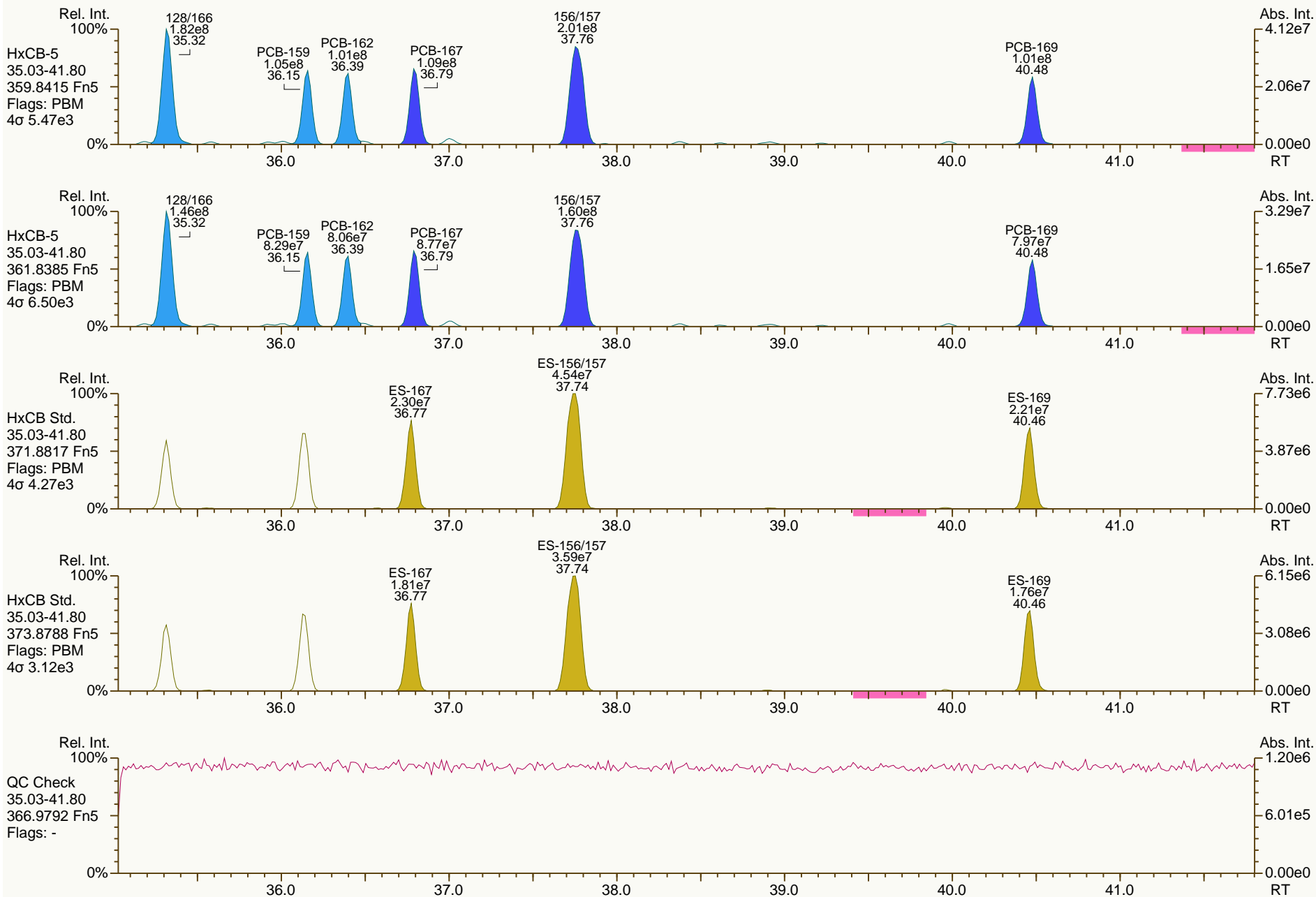
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SGS-AP ID: CS4\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

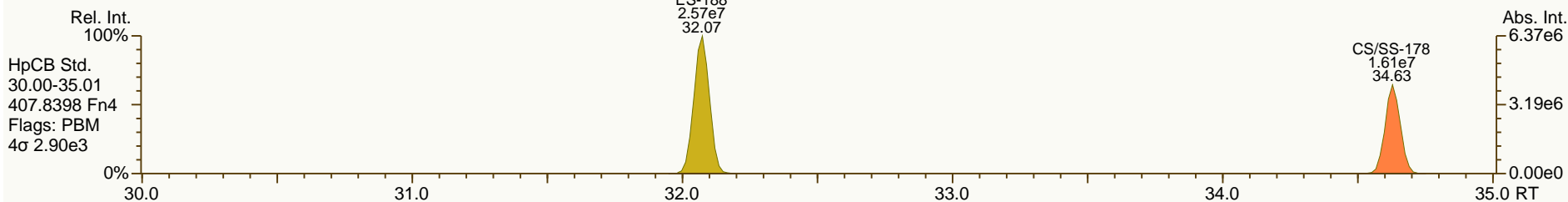
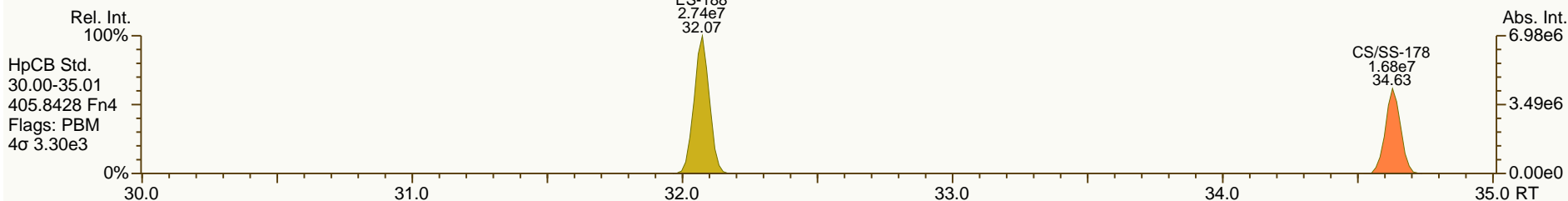
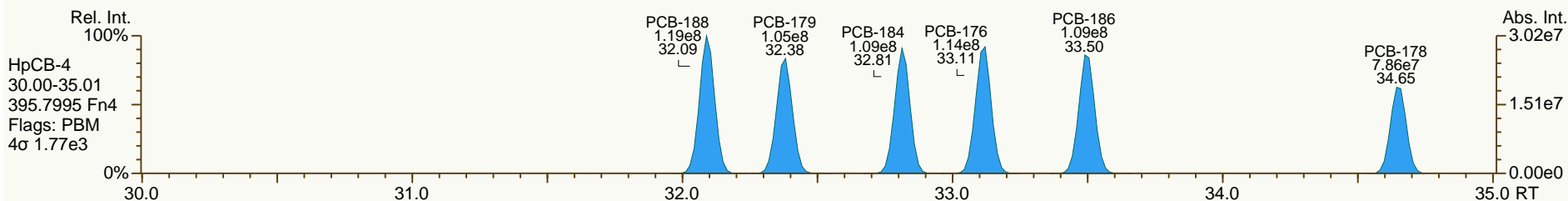
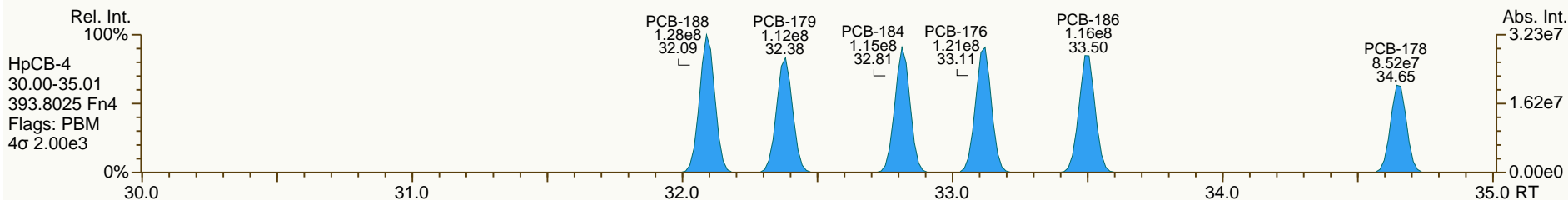
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

Acq: 05-Feb-2014 14:10:02  
 User: CTW Datafile: 140205S06

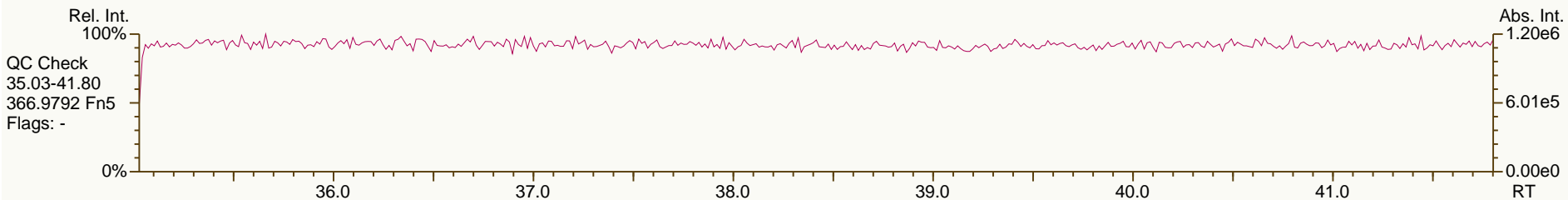
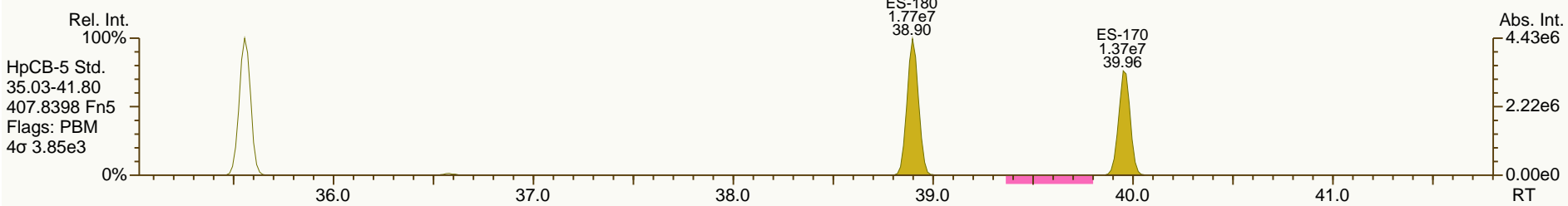
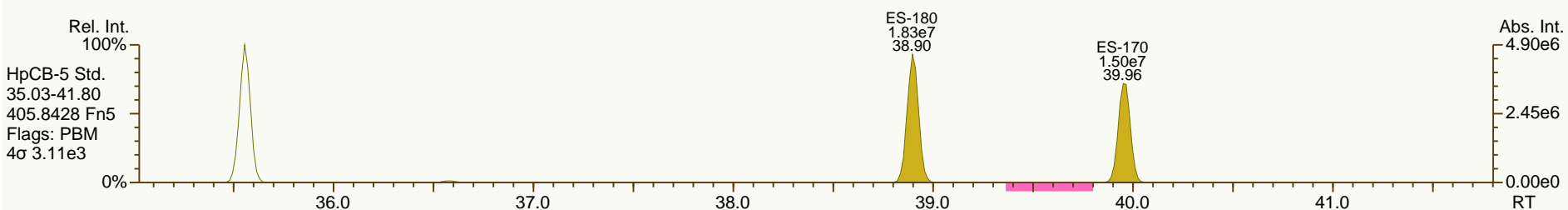
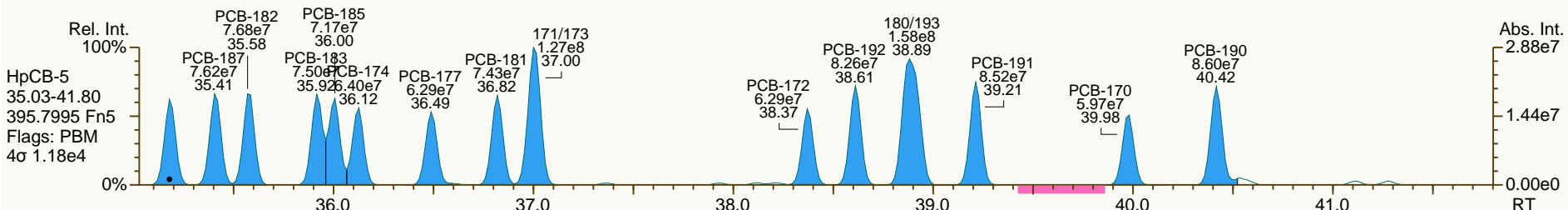
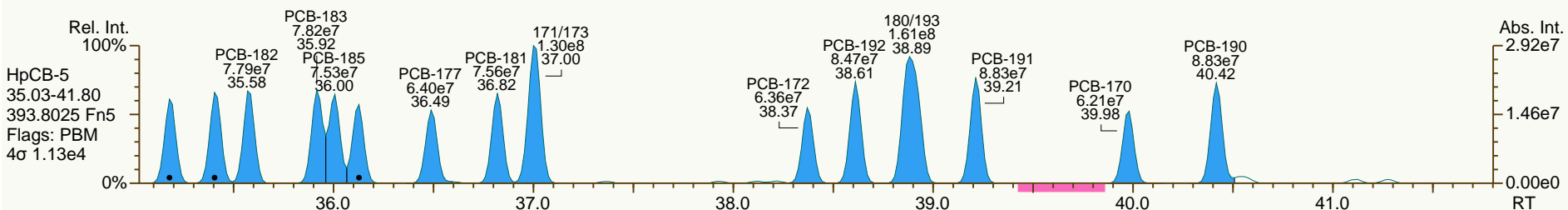




SGS-AP ID: CS4\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

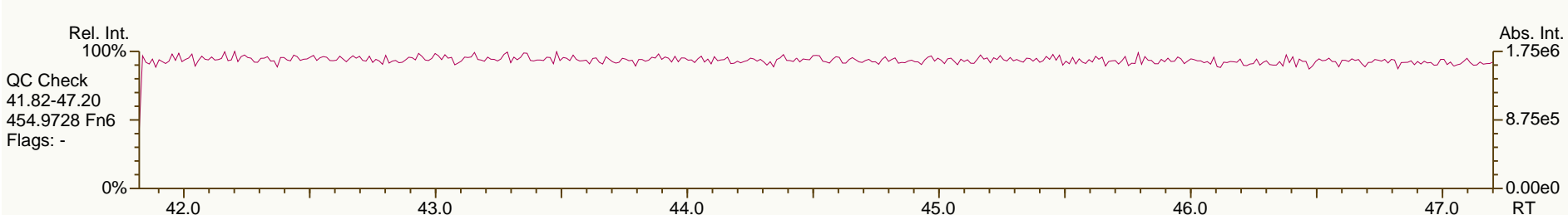
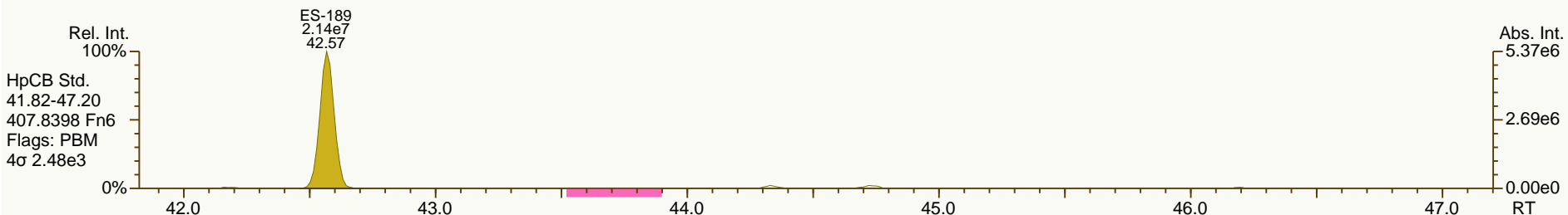
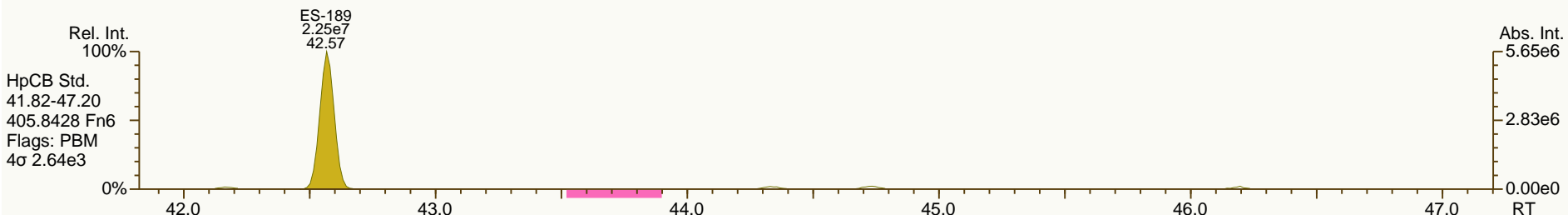
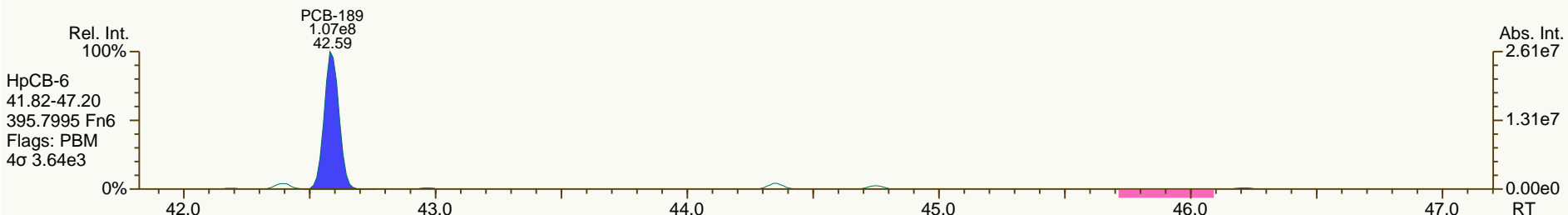
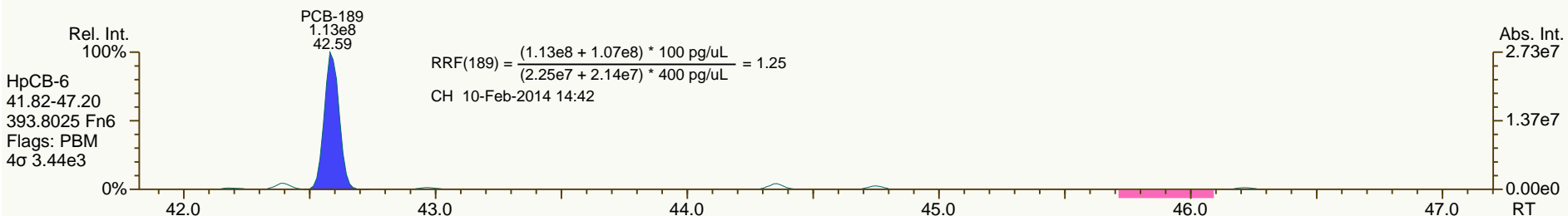
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

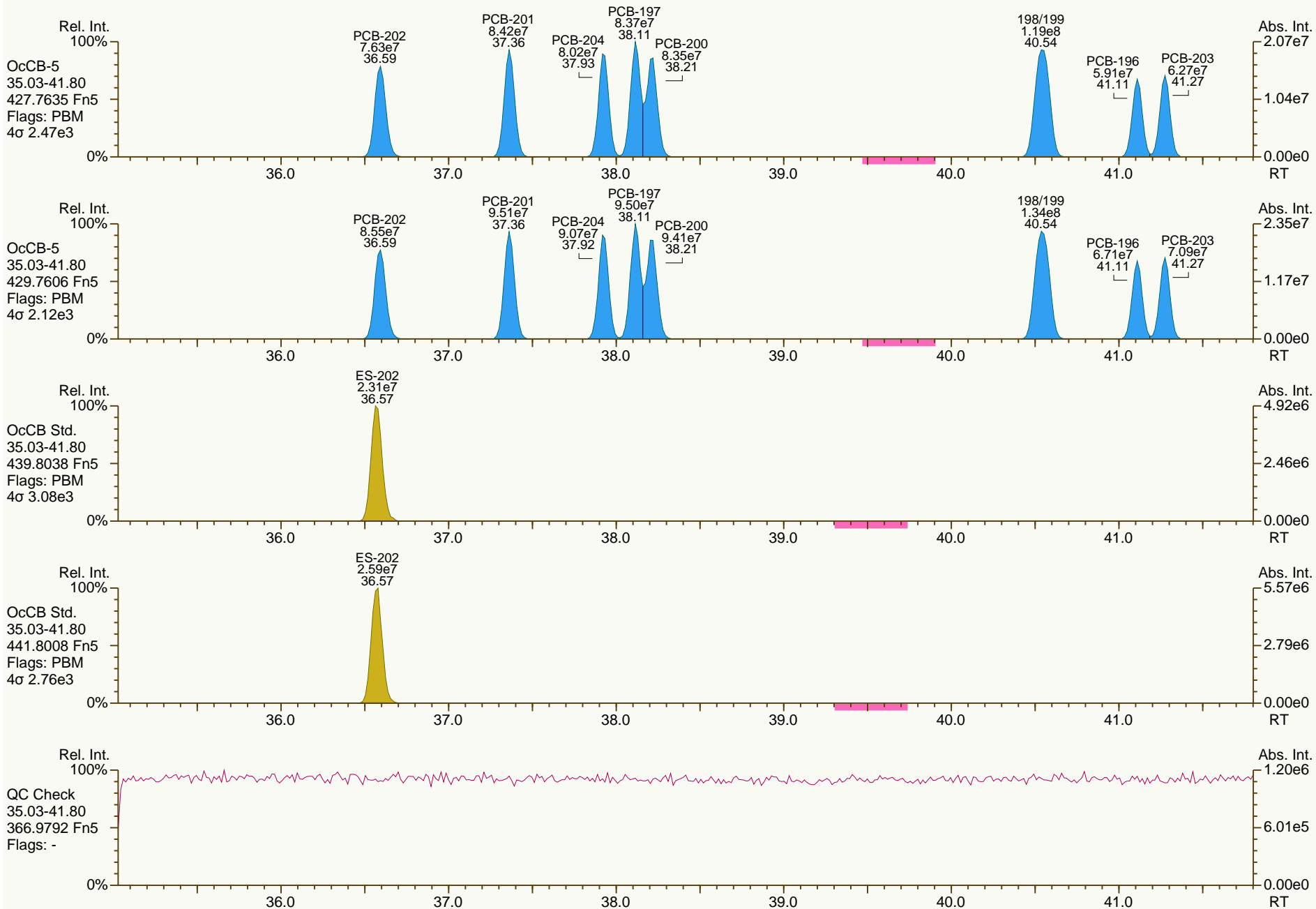
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 User: CTW Datafile: 140205S06



SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

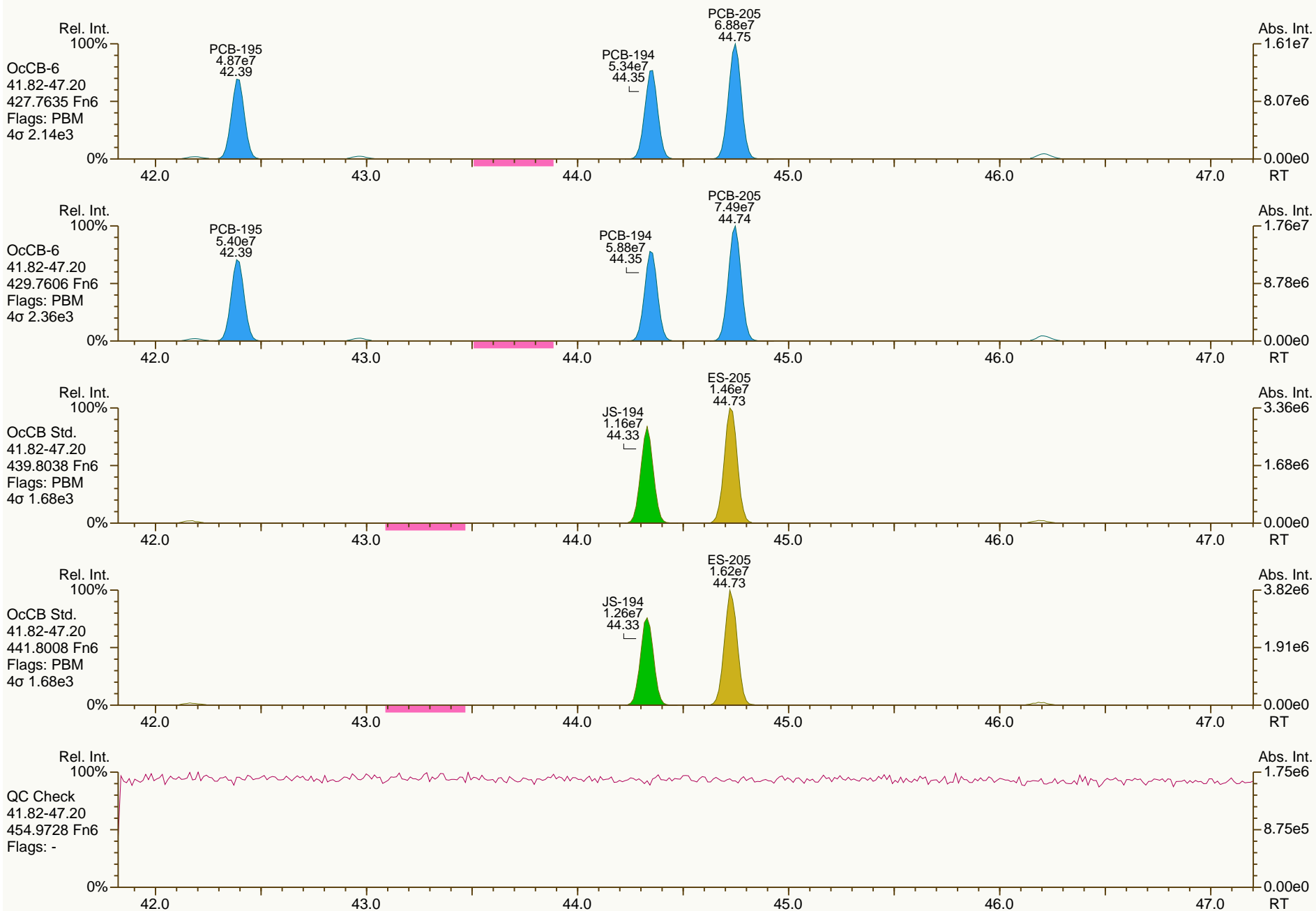
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
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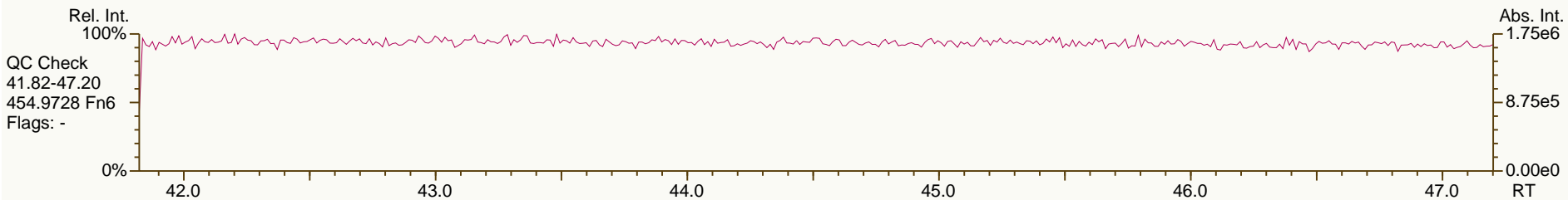
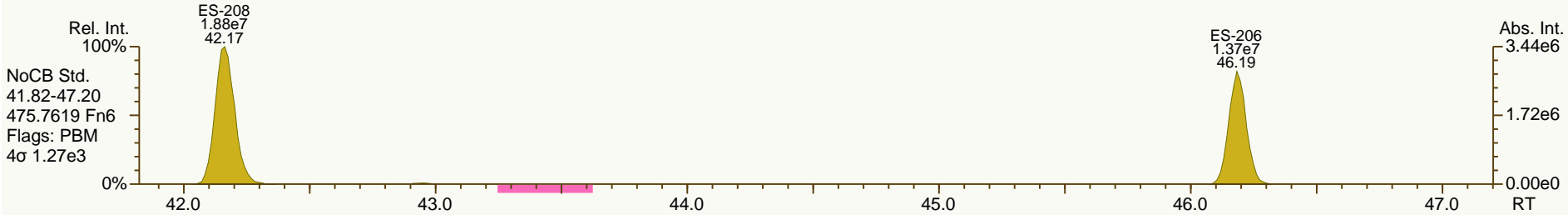
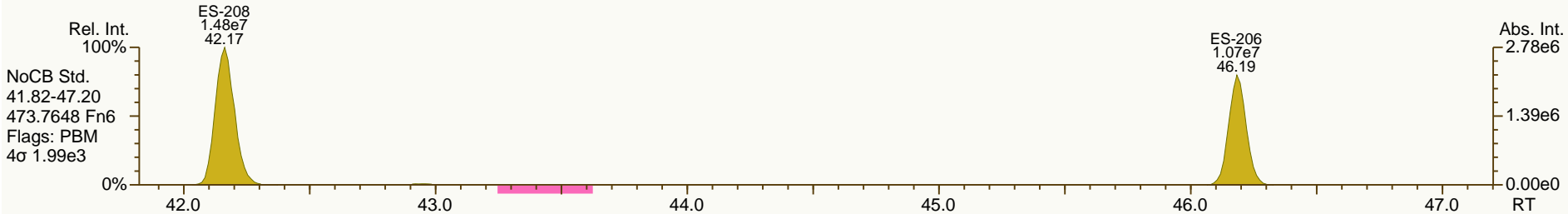
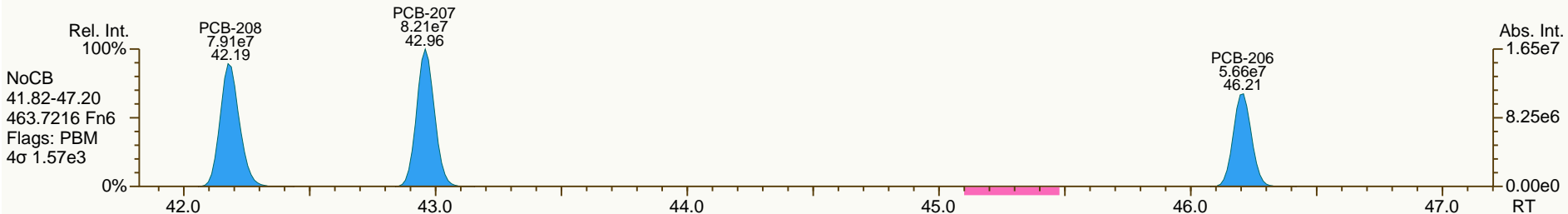
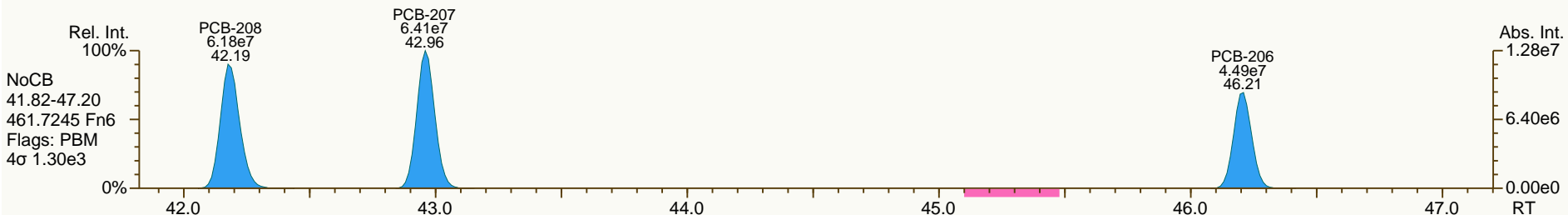
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SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

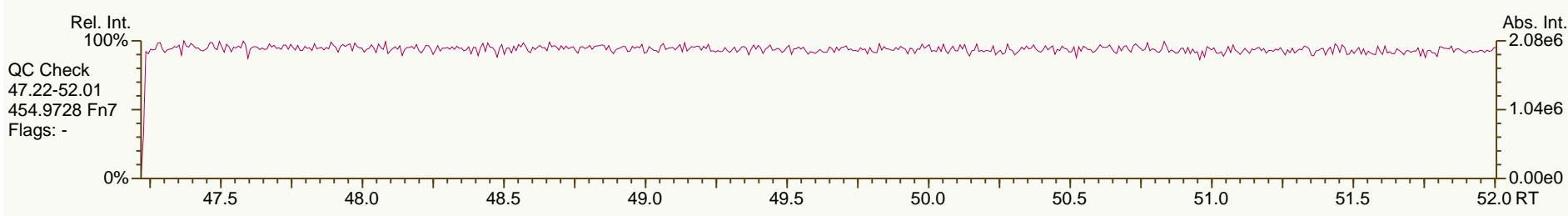
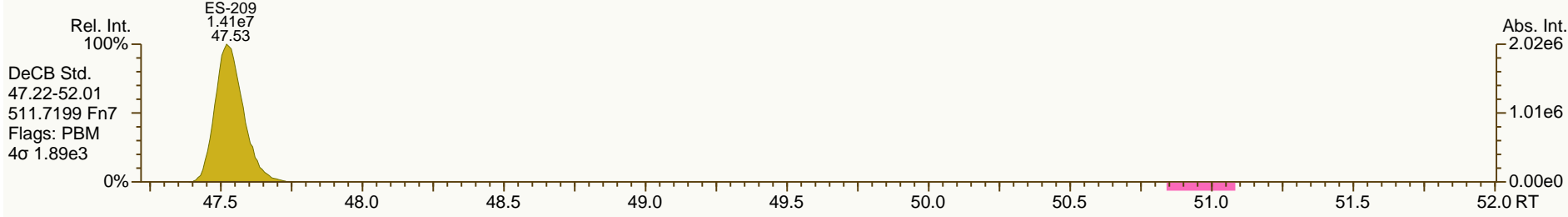
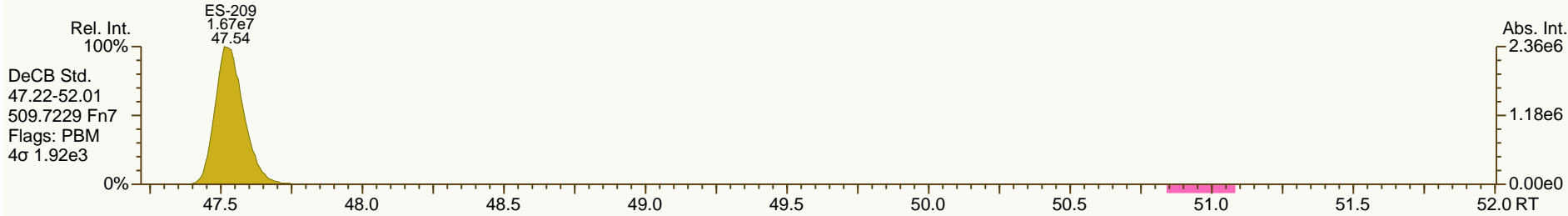
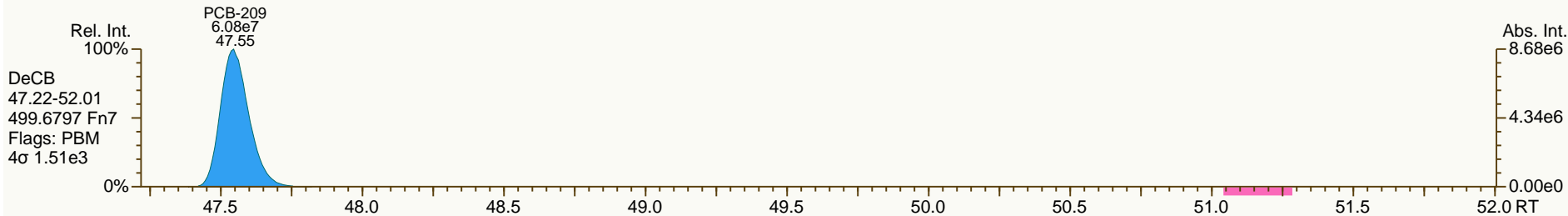
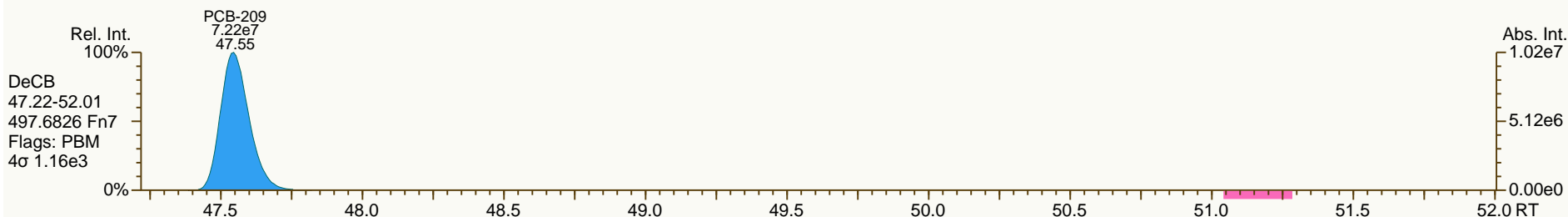
Acq: 05-Feb-2014 14:10:02  
 User: CTW Datafile: 140205S06



SGS-AP ID: CS4\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 64

Acq: 05-Feb-2014 14:10:02  
 User: CTW Datafile: 140205S06



PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:48		
Lab ID:	CS5_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 15:06						
Datafile:	140205S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.71	2.07E+09	0.80 Y	1.36	1.47	8.0%	
PCB-81 344'5'-TeCB	29.24	2.02E+09	0.79 Y	1.32	1.36	3.6%	
PCB-105 233'44'-PeCB	32.64	1.28E+09	0.61 Y	1.03	1.12	8.8%	
PCB-114 2344'5'-PeCB	32.10	1.38E+09	0.62 Y	1.13	1.21	6.5%	
PCB-118 23'44'5'-PeCB	31.65	1.28E+09	0.61 Y	1.13	1.21	6.8%	
PCB-123 23'44'5'-PeCB	31.38	1.32E+09	0.61 Y	1.11	1.14	2.6%	
PCB-126 33'44'5'-PeCB	35.24	1.67E+09	0.63 Y	1.33	1.42	6.9%	
PCB-156/157 ...-HxCB	37.75	2.40E+09	1.24 Y	1.09	1.17	7.3%	
PCB-167 23'44'55'-HxCB	36.78	1.30E+09	1.25 Y	1.15	1.26	10.0%	
PCB-169 33'44'55'-HxCB	40.47	1.21E+09	1.27 Y	1.10	1.18	7.9%	
PCB-189 233'44'55'-HpCB	42.58	1.42E+09	1.05 Y	1.21	1.30	7.5%	
PCB-209 DeCB	47.54	8.26E+08	1.19 Y	1.07	1.13	5.7%	
ES PCB-1	10.18	1.05E+08	3.18 Y	1.05	1.04	-1.8%	
ES PCB-3	12.14	9.96E+07	3.21 Y	0.97	0.98	1.1%	
ES PCB-4	12.36	6.61E+07	1.54 Y	0.66	0.65	-1.4%	
ES PCB-15	17.52	1.15E+08	1.63 Y	1.09	1.13	4.0%	
ES PCB-19	15.10	5.46E+07	1.04 Y	0.55	0.54	-2.1%	
ES PCB-37	23.52	8.13E+07	1.07 Y	1.44	1.52	5.5%	
ES PCB-54	17.76	7.44E+07	0.76 Y	1.42	1.39	-2.1%	
ES PCB-77	29.69	7.02E+07	0.82 Y	1.26	1.31	4.3%	
ES PCB-81	29.22	7.43E+07	0.82 Y	1.27	1.39	9.8%	
ES PCB-104	22.47	7.10E+07	1.55 Y	1.56	1.42	-8.4%	
ES PCB-105	32.62	5.68E+07	1.60 Y	1.23	1.14	-7.6%	
ES PCB-114	32.08	5.71E+07	1.59 Y	1.20	1.15	-4.7%	
ES PCB-118	31.63	5.30E+07	1.60 Y	1.13	1.06	-6.0%	
ES PCB-123	31.36	5.76E+07	1.61 Y	1.16	1.15	-0.8%	
ES PCB-126	35.21	5.86E+07	1.59 Y	1.22	1.18	-3.6%	
ES PCB-153	33.19	4.93E+07	1.28 Y	1.10	1.08	-1.8%	
ES PCB-155	27.26	6.80E+07	1.24 Y	1.60	1.49	-6.8%	
ES PCB-156/157	37.73	1.03E+08	1.25 Y	1.14	1.13	-0.9%	
ES PCB-167	36.76	5.15E+07	1.27 Y	1.17	1.13	-3.2%	
ES PCB-169	40.45	5.13E+07	1.27 Y	1.11	1.13	2.1%	
ES PCB-170	39.94	3.53E+07	1.08 Y	1.18	1.17	-1.1%	
ES PCB-180	38.89	4.66E+07	1.08 Y	1.44	1.55	7.5%	
ES PCB-188	32.06	6.62E+07	1.05 Y	1.52	1.45	-4.3%	
ES PCB-189	42.56	5.45E+07	1.08 Y	1.80	1.80	0.2%	
ES PCB-202	36.56	6.19E+07	0.90 Y	1.39	1.36	-1.9%	
ES PCB-205	44.71	3.78E+07	0.91 Y	1.26	1.25	-0.6%	
ES PCB-206	46.18	2.95E+07	0.78 Y	1.00	0.98	-2.1%	
ES PCB-208	42.15	4.13E+07	0.78 Y	1.38	1.37	-0.9%	
ES PCB-209	47.52	3.66E+07	1.18 Y	1.26	1.21	-3.8%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 10-Feb-2014 14:48		
Lab ID:	CS5_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 15:06						
Datafile:	140205S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	20.11	8.68E+07	1.08 Y	1.10	1.07	-2.9%	
SS PCB-111	29.71	5.83E+07	1.61 Y	1.03	1.01	-1.5%	
SS PCB-178	34.62	4.36E+07	1.10 Y	0.62	0.66	6.3%	
CS PCB-28	20.11	8.68E+07	1.08 Y	1.59	1.63	2.5%	
CS PCB-111	29.71	5.83E+07	1.61 Y	1.20	1.17	-2.2%	
CS PCB-178	34.62	4.36E+07	1.10 Y	0.94	0.96	1.8%	
JS PCB-9	14.11	1.02E+08	1.64 Y	-	-	-	
JS PCB-52	21.66	5.34E+07	0.78 Y	-	-	-	
JS PCB-101	27.46	4.99E+07	1.58 Y	-	-	-	
JS PCB-138	34.24	4.55E+07	1.32 Y	-	-	-	
JS PCB-194	44.32	3.02E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	10.19	2.70E+09	3.15 Y	1.21	1.28	5.7%	
PCB-3 4-MoCB	12.16	2.73E+09	3.20 Y	1.30	1.37	5.6%	
PCB-4 22'-DiCB	12.37	1.39E+09	1.54 Y	0.98	1.05	7.2%	
PCB-15 44'-DiCB	17.54	2.86E+09	1.55 Y	1.19	1.24	4.9%	
PCB-19 22'6'-TrCB	15.11	1.21E+09	1.03 Y	1.05	1.11	5.6%	
PCB-37 344'-TrCB	23.54	2.31E+09	1.08 Y	1.32	1.42	7.3%	
PCB-54 22'66'-TeCB	17.78	1.61E+09	0.79 Y	1.02	1.08	6.3%	
PCB-104 22'466'-PeCB	22.49	1.57E+09	0.64 Y	1.02	1.10	8.1%	
PCB-155 22'44'66'-HxCB	27.28	1.60E+09	1.26 Y	1.11	1.18	6.4%	
PCB-188 22'34'566'-HpCB	32.08	1.59E+09	1.08 Y	1.10	1.20	9.4%	
PCB-202 22'33'55'66'-OcCB	36.58	1.05E+09	0.89 Y	0.83	0.85	2.4%	
PCB-205 233'44'55'6'-OcCB	44.73	9.19E+08	0.92 Y	1.11	1.22	9.4%	
PCB-208 22'33'455'66'-NoCB	42.17	9.02E+08	0.78 Y	1.01	1.09	8.0%	
PCB-206 22'33'44'55'6'-NoCB	46.19	6.45E+08	0.79 Y	1.01	1.09	8.0%	



PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:48			
Lab ID:	CS5_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 15:06						
Datafile:	140205S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	10.19	2.70E+09	3.15 Y	1.21	1.28	5.7%	
PCB-2 3-MoCB	11.99	2.75E+09	3.17 Y	1.29	1.38	7.1%	
PCB-3 4-MoCB	12.16	2.73E+09	3.20 Y	1.30	1.37	5.6%	
PCB-4 22'-DiCB	12.37	1.39E+09	1.54 Y	0.98	1.05	7.2%	
PCB-10 26'-DiCB	12.53	2.20E+09	1.54 Y	1.53	1.66	8.5%	
PCB-9 25'-DiCB	14.13	2.40E+09	1.56 Y	1.04	1.05	1.1%	
PCB-7 24'-DiCB	14.27	2.79E+09	1.56 Y	1.18	1.21	2.6%	
PCB-6 23'-DiCB	14.48	2.59E+09	1.56 Y	1.11	1.13	1.7%	
PCB-5 23'-DiCB	14.75	2.61E+09	1.56 Y	1.10	1.14	3.2%	
PCB-8 24'-DiCB	14.86	2.65E+09	1.55 Y	1.13	1.16	2.2%	
PCB-14 35'-DiCB	16.27	3.12E+09	1.57 Y	1.28	1.36	6.0%	
PCB-11 33'-DiCB	17.00	2.73E+09	1.57 Y	1.10	1.19	7.7%	
PCB-13/12 34'/34'-DiCB	17.27	5.47E+09	1.55 Y	1.11	1.19	6.9%	
PCB-15 44'-DiCB	17.54	2.86E+09	1.55 Y	1.19	1.24	4.9%	
PCB-19 22'6'-TrCB	15.11	1.21E+09	1.03 Y	1.05	1.11	5.6%	
PCB-30/18 246/22'5'-TrCB	16.72	3.28E+09	1.03 Y	1.33	1.50	13.2%	
PCB-17 22'4'-TrCB	17.09	1.39E+09	1.04 Y	1.15	1.28	10.6%	
PCB-27 23'6'-TrCB	17.28	1.91E+09	1.05 Y	1.56	1.75	12.0%	
PCB-24 236'-TrCB	17.39	1.78E+09	1.04 Y	1.50	1.63	8.9%	
PCB-16 22'3'-TrCB	17.49	1.09E+09	1.04 Y	0.88	1.00	13.7%	
PCB-32 24'6'-TrCB	17.93	1.98E+09	1.05 Y	1.74	1.82	4.6%	
PCB-34 23'5'-TrCB	19.02	2.27E+09	1.08 Y	1.33	1.40	4.9%	
PCB-23 235'-TrCB	19.15	2.33E+09	1.07 Y	1.40	1.43	2.8%	
PCB-26/29 23'5'/245'-TrCB	19.42	4.76E+09	1.08 Y	1.41	1.46	3.8%	
PCB-25 23'4'-TrCB	19.61	2.39E+09	1.08 Y	1.41	1.47	4.4%	
PCB-31 24'5'-TrCB	19.88	2.44E+09	1.08 Y	1.46	1.50	2.5%	
PCB-28/20 244'/233'-TrCB	20.14	4.68E+09	1.08 Y	1.39	1.44	3.6%	
PCB-21/33 234'/23'4'-TrCB	20.31	4.80E+09	1.07 Y	1.42	1.48	4.0%	
PCB-22 234'-TrCB	20.67	2.18E+09	1.07 Y	1.29	1.34	3.9%	
PCB-36 33'5'-TrCB	22.00	2.45E+09	1.08 Y	1.42	1.50	6.2%	
PCB-39 34'5'-TrCB	22.31	2.53E+09	1.08 Y	1.45	1.55	6.9%	
PCB-38 345'-TrCB	22.80	2.23E+09	1.08 Y	1.30	1.37	5.4%	
PCB-35 33'4'-TrCB	23.19	2.18E+09	1.09 Y	1.25	1.34	7.5%	
PCB-37 344'-TrCB	23.54	2.31E+09	1.08 Y	1.32	1.42	7.3%	
PCB-54 22'66'-TeCB	17.78	1.61E+09	0.79 Y	1.02	1.08	6.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.65	2.53E+09	0.80 Y	0.85	0.85	0.0%	
PCB-45 22'36'-TeCB	20.21	1.02E+09	0.76 Y	0.71	0.69	-3.6%	
PCB-51 22'46'-TeCB	20.27	1.35E+09	0.78 Y	0.88	0.91	3.3%	
PCB-46 22'36'-TeCB	20.47	9.95E+08	0.78 Y	0.68	0.67	-1.3%	
PCB-52 22'55'-TeCB	21.69	1.18E+09	0.79 Y	0.80	0.79	-1.6%	
PCB-73 23'5'6'-TeCB	21.80	1.54E+09	0.79 Y	1.07	1.03	-3.0%	
PCB-43 22'35'-TeCB	21.88	1.09E+09	0.80 Y	0.68	0.74	8.0%	
PCB-69/49 23'46'/22'45'-TeCB	22.08	2.97E+09	0.80 Y	0.97	1.00	2.9%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:48			
Lab ID:	CS5_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 15:06						
Datafile:	140205S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.34	1.23E+09	0.79 Y	0.80	0.83	3.2%	
PCB-44/47/65 ...-TeCB	22.55	3.94E+09	0.80 Y	0.87	0.88	1.4%	
PCB-59/62/75 ...-TeCB	22.81	5.05E+09	0.79 Y	1.11	1.13	1.9%	
PCB-42 22'34'-TeCB	22.98	1.09E+09	0.80 Y	0.73	0.73	0.3%	
PCB-41 22'34'-TeCB	23.29	1.01E+09	0.79 Y	0.66	0.68	3.1%	
PCB-71/40 23'4'6/22'33'-TeCB	23.39	2.51E+09	0.80 Y	0.82	0.84	2.3%	
PCB-64 23'4'6'-TeCB	23.58	1.78E+09	0.79 Y	1.20	1.19	-0.1%	
PCB-72 23'55'-TeCB	24.29	2.08E+09	0.80 Y	1.39	1.40	1.2%	
PCB-68 23'45'-TeCB	24.54	2.24E+09	0.79 Y	1.49	1.51	1.3%	
PCB-57 23'3'5'-TeCB	24.89	1.97E+09	0.80 Y	1.33	1.33	-0.2%	
PCB-58 23'3'5'-TeCB	25.09	2.07E+09	0.79 Y	1.38	1.39	0.8%	
PCB-67 23'45'-TeCB	25.24	2.19E+09	0.78 Y	1.47	1.47	0.1%	
PCB-63 23'4'5'-TeCB	25.46	2.22E+09	0.78 Y	1.50	1.50	-0.6%	
PCB-61/70/74/76 ...-TeCB	25.74	8.38E+09	0.78 Y	1.38	1.41	1.8%	
PCB-66 23'44'-TeCB	26.01	1.95E+09	0.78 Y	1.28	1.31	2.7%	
PCB-55 23'3'4'-TeCB	26.15	1.94E+09	0.78 Y	1.33	1.31	-1.6%	
PCB-56 23'3'4'-TeCB	26.58	1.89E+09	0.78 Y	1.25	1.27	1.8%	
PCB-60 23'44'-TeCB	26.76	2.01E+09	0.78 Y	1.34	1.35	0.6%	
PCB-80 33'55'-TeCB	27.11	2.28E+09	0.79 Y	1.51	1.53	1.6%	
PCB-79 33'45'-TeCB	28.40	2.33E+09	0.79 Y	1.55	1.57	1.4%	
PCB-78 33'45'-TeCB	28.86	1.87E+09	0.78 Y	1.25	1.26	0.6%	
PCB-104 22'466'-PeCB	22.49	1.57E+09	0.64 Y	1.02	1.10	8.1%	
PCB-96 22'366'-PeCB	22.80	1.38E+09	0.64 Y	0.90	0.97	7.8%	
PCB-103 22'45'6'-PeCB	24.44	1.07E+09	0.63 Y	0.92	0.93	1.3%	
PCB-94 22'356'-PeCB	24.63	9.26E+08	0.62 Y	0.79	0.80	1.3%	
PCB-95 22'35'6'-PeCB	25.00	9.85E+08	0.62 Y	0.85	0.86	1.1%	
PCB-100/93 22'44'6/22'356'-PeCB	25.19	2.05E+09	0.63 Y	0.88	0.89	1.0%	
PCB-102 22'456'-PeCB	25.30	9.93E+08	0.62 Y	0.95	0.86	-9.3%	
PCB-98 22'34'6'-PeCB	25.36	9.93E+08	0.64 Y	0.76	0.86	13.1%	
PCB-88 22'346'-PeCB	25.65	9.07E+08	0.62 Y	0.80	0.79	-1.3%	
PCB-91 22'34'6'-PeCB	25.73	1.12E+09	0.63 Y	0.90	0.98	8.1%	
PCB-84 22'33'6'-PeCB	25.92	8.11E+08	0.62 Y	0.71	0.70	-0.6%	
PCB-89 22'346'-PeCB	26.32	8.69E+08	0.62 Y	0.76	0.75	-0.1%	
PCB-121 23'45'6'-PeCB	26.67	1.35E+09	0.63 Y	1.15	1.17	2.3%	
PCB-92 22'355'-PeCB	26.99	9.20E+08	0.63 Y	0.80	0.80	-0.5%	
PCB-113/90/101 ...-PeCB	27.46	3.37E+09	0.62 Y	0.94	0.98	3.9%	
PCB-83 22'33'5'-PeCB	27.88	8.06E+08	0.62 Y	0.68	0.70	2.4%	
PCB-99 22'44'5'-PeCB	27.96	1.03E+09	0.63 Y	0.88	0.90	2.0%	
PCB-112 23'3'56'-PeCB	28.07	1.31E+09	0.63 Y	1.08	1.14	5.1%	
PCB-109/119/86/97/125...-PeCB	28.41	6.83E+09	0.63 Y	0.96	0.99	3.4%	
PCB-117 23'4'56'-PeCB	28.92	1.16E+09	0.62 Y	1.00	1.01	0.3%	
PCB-116/85 23'456/22'344'-PeCB	29.00	2.37E+09	0.63 Y	0.95	1.03	8.8%	
PCB-110 23'3'4'6'-PeCB	29.14	1.15E+09	0.62 Y	1.06	1.00	-5.6%	

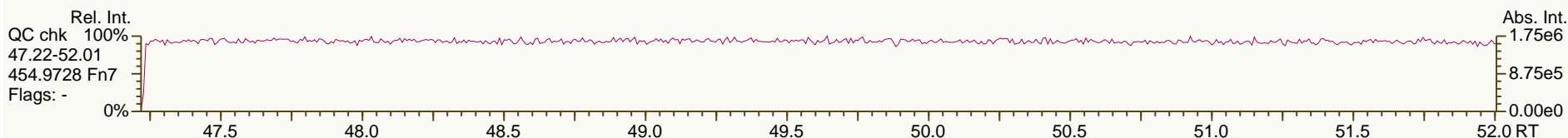
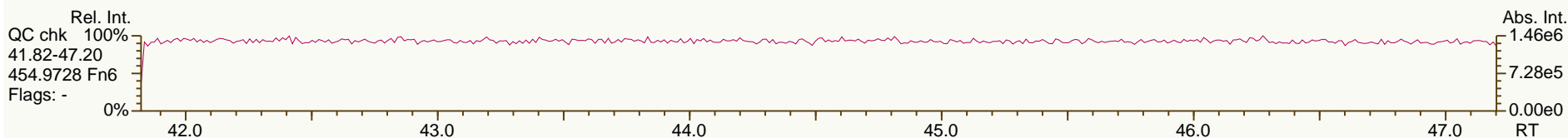
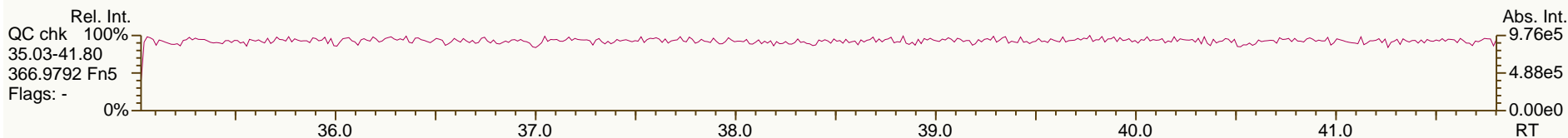
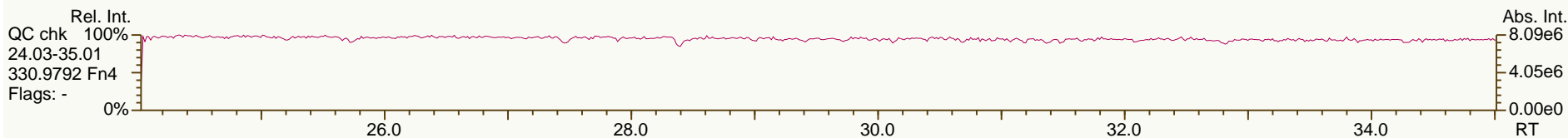
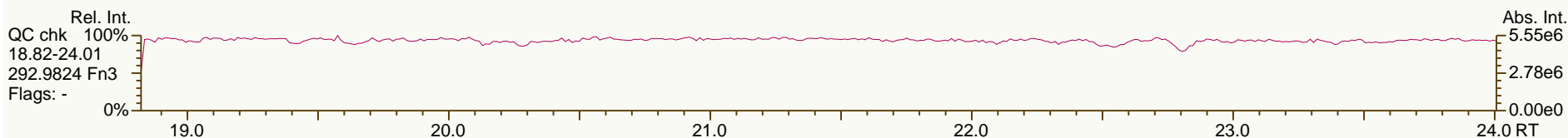
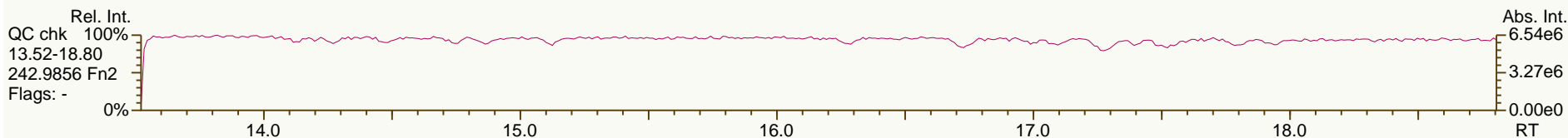
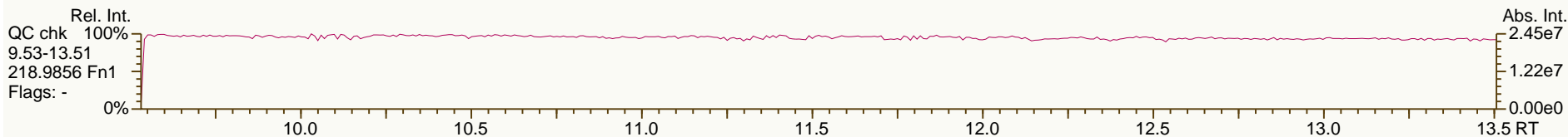
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Lab ID:	CS5_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 15:06						
Datafile:	140205S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	29.20	1.42E+09	0.63 Y	1.09	1.24	13.3%	
PCB-82 22'33'4-PeCB	29.40	8.03E+08	0.62 Y	0.67	0.70	4.8%	
PCB-111 233'55'-PeCB	29.74	1.37E+09	0.62 Y	1.15	1.19	3.1%	
PCB-120 23'455'-PeCB	30.12	1.36E+09	0.61 Y	1.13	1.18	5.0%	
PCB-108/124 ...-PeCB	31.08	2.55E+09	0.62 Y	1.03	1.11	7.9%	
PCB-107 233'4'5-PeCB	31.28	1.38E+09	0.61 Y	1.11	1.20	7.8%	
PCB-106 233'45-PeCB	31.48	1.25E+09	0.61 Y	1.02	1.09	6.2%	
PCB-122 233'4'5'-PeCB	31.94	1.12E+09	0.61 Y	0.92	0.98	5.8%	
PCB-127 33'455'-PeCB	33.88	1.26E+09	0.62 Y	0.96	1.11	16.0%	
PCB-155 22'44'66'-HxCB	27.28	1.60E+09	1.26 Y	1.11	1.18	6.4%	
PCB-152 22'3566'-HxCB	27.45	1.57E+09	1.26 Y	1.03	1.15	12.3%	
PCB-150 22'34'66'-HxCB	27.59	1.52E+09	1.26 Y	1.00	1.12	11.1%	
PCB-136 22'33'66'-HxCB	27.89	1.47E+09	1.27 Y	0.96	1.08	12.3%	
PCB-145 22'3466'-HxCB	28.14	1.45E+09	1.26 Y	0.97	1.06	10.0%	
PCB-148 22'34'56'-HxCB	29.41	1.13E+09	1.27 Y	1.07	1.15	6.9%	
PCB-151/135 ...-HxCB	29.93	2.11E+09	1.27 Y	1.02	1.07	5.3%	
PCB-154 22'44'56'-HxCB	30.12	1.24E+09	1.26 Y	1.16	1.25	7.6%	
PCB-144 22'345'6-HxCB	30.38	1.06E+09	1.27 Y	1.02	1.07	5.3%	
PCB-147/149 ...-HxCB	30.68	2.20E+09	1.27 Y	1.03	1.12	8.0%	
PCB-134 22'33'56-HxCB	30.85	8.34E+08	1.26 Y	0.82	0.85	2.8%	
PCB-143 22'3456'-HxCB	30.93	1.06E+09	1.28 Y	0.98	1.07	9.3%	
PCB-139/140 ...-HxCB	31.19	2.30E+09	1.26 Y	1.07	1.17	9.2%	
PCB-131 22'33'46-HxCB	31.36	9.82E+08	1.26 Y	0.92	1.00	8.3%	
PCB-142 22'3456-HxCB	31.49	9.72E+08	1.26 Y	0.91	0.99	9.0%	
PCB-132 22'33'46'-HxCB	31.74	9.56E+08	1.27 Y	0.93	0.97	4.3%	
PCB-133 22'33'55'-HxCB	32.16	1.02E+09	1.26 Y	0.96	1.03	7.3%	
PCB-165 233'55'6-HxCB	32.49	1.21E+09	1.27 Y	1.18	1.23	4.7%	
PCB-146 22'34'55'-HxCB	32.70	1.10E+09	1.27 Y	1.10	1.12	1.9%	
PCB-161 233'45'6-HxCB	32.81	1.44E+09	1.28 Y	1.35	1.46	8.0%	
PCB-153/168 ...-HxCB	33.24	2.69E+09	1.26 Y	1.29	1.37	6.1%	
PCB-141 22'3455'-HxCB	33.38	9.94E+08	1.27 Y	0.96	1.01	4.9%	
PCB-130 22'33'45'-HxCB	33.72	8.71E+08	1.26 Y	0.85	0.88	3.5%	
PCB-137 22'344'5-HxCB	33.91	1.13E+09	1.26 Y	1.05	1.15	9.5%	
PCB-164 233'4'5'6-HxCB	34.00	1.36E+09	1.25 Y	1.26	1.38	9.4%	
PCB-163/138/129 ...-HxCB	34.28	3.37E+09	1.24 Y	1.06	1.14	8.0%	
PCB-160 233'456-HxCB	34.40	1.35E+09	1.24 Y	1.24	1.37	10.4%	
PCB-158 233'44'6-HxCB	34.59	1.46E+09	1.24 Y	1.34	1.48	10.2%	
PCB-128/166 ...-HxCB	35.31	2.17E+09	1.25 Y	0.93	1.05	12.6%	
PCB-159 233'455'-HxCB	36.14	1.25E+09	1.26 Y	1.09	1.21	11.2%	
PCB-162 233'4'55'-HxCB	36.39	1.21E+09	1.25 Y	1.08	1.17	8.3%	
PCB-188 22'34'566'-HpCB	32.08	1.59E+09	1.08 Y	1.10	1.20	9.4%	
PCB-179 22'33'566'-HpCB	32.37	1.38E+09	1.08 Y	1.01	1.05	3.1%	
PCB-184 22'344'66'-HpCB	32.80	1.45E+09	1.07 Y	1.02	1.10	7.7%	

PCB QC Summary - Ax2 Detail				Printed: 10-Feb-2014 14:48			
Lab ID:	CS5_140205_PCB_SA	ICAL: MM4_PCB_10292013_05FEB2014					
Acquired:	05-FEB-2014 15:06						
Datafile:	140205S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	33.10	1.53E+09	1.07 Y	1.08	1.15	6.5%	
PCB-186 22'34566'-HpCB	33.49	1.46E+09	1.07 Y	1.02	1.10	7.6%	
PCB-178 22'33'55'6'-HpCB	34.64	1.09E+09	1.06 Y	0.75	0.82	9.2%	
PCB-175 22'33'45'6'-HpCB	35.17	9.36E+08	1.05 Y	0.99	1.00	1.1%	
PCB-187 22'34'55'6'-HpCB	35.40	1.00E+09	1.03 Y	1.05	1.08	3.0%	
PCB-182 22'344'56'-HpCB	35.57	1.01E+09	1.03 Y	1.08	1.08	0.1%	
PCB-183 22'344'5'6'-HpCB	35.91	9.82E+08	1.02 Y	1.07	1.05	-1.9%	
PCB-185 22'3455'6'-HpCB	35.99	1.01E+09	1.04 Y	0.97	1.08	11.2%	
PCB-174 22'33'456'-HpCB	36.11	8.87E+08	1.03 Y	0.89	0.95	7.1%	
PCB-177 22'33'45'6'-HpCB	36.48	8.46E+08	1.02 Y	0.87	0.91	4.0%	
PCB-181 22'344'56'-HpCB	36.81	1.01E+09	1.02 Y	0.98	1.08	9.9%	
PCB-171/173 ...-HpCB	36.99	1.74E+09	1.02 Y	0.87	0.93	6.8%	
PCB-172 22'33'455'-HpCB	38.36	8.37E+08	1.02 Y	0.88	0.90	2.2%	
PCB-192 233'455'6'-HpCB	38.60	1.11E+09	1.04 Y	1.16	1.19	2.9%	
PCB-180/193 ...-HpCB	38.88	2.15E+09	1.04 Y	1.08	1.15	6.8%	
PCB-191 233'44'5'6'-HpCB	39.20	1.15E+09	1.03 Y	1.17	1.24	5.3%	
PCB-170 22'33'44'5'-HpCB	39.96	8.01E+08	1.02 Y	1.03	1.13	10.6%	
PCB-190 233'44'56'-HpCB	40.41	1.16E+09	1.02 Y	1.44	1.65	14.3%	
PCB-202 22'33'55'66'-OcCB	36.58	1.05E+09	0.89 Y	0.83	0.85	2.4%	
PCB-201 22'33'45'66'-OcCB	37.35	1.15E+09	0.88 Y	0.88	0.93	4.9%	
PCB-204 22'344'566'-OcCB	37.91	1.13E+09	0.89 Y	0.86	0.91	5.9%	
PCB-197 22'33'44'66'-OcCB	38.11	1.27E+09	0.88 Y	0.93	1.03	10.9%	
PCB-200 22'33'4566'-OcCB	38.20	1.09E+09	0.89 Y	0.86	0.88	2.3%	
PCB-198/199 ...-OcCB	40.53	1.72E+09	0.89 Y	0.61	0.69	14.3%	
PCB-196 22'33'44'56'-OcCB	41.10	8.15E+08	0.89 Y	0.62	0.66	5.8%	
PCB-203 22'344'55'6'-OcCB	41.26	8.77E+08	0.88 Y	0.65	0.71	8.3%	
PCB-195 22'33'44'56'-OcCB	42.38	6.69E+08	0.90 Y	0.81	0.88	9.0%	
PCB-194 22'33'44'55'-OcCB	44.34	7.17E+08	0.91 Y	0.89	0.95	6.8%	
PCB-205 233'44'55'6'-OcCB	44.73	9.19E+08	0.92 Y	1.11	1.22	9.4%	
PCB-208 22'33'455'66'-NoCB	42.17	9.02E+08	0.78 Y	1.01	1.09	8.0%	
PCB-207 22'33'44'566'-NoCB	42.95	9.41E+08	0.79 Y	1.06	1.14	7.6%	
PCB-206 22'33'44'55'6'-NoCB	46.19	6.45E+08	0.79 Y	1.01	1.09	8.0%	

SGS-AP ID: CS5\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 65

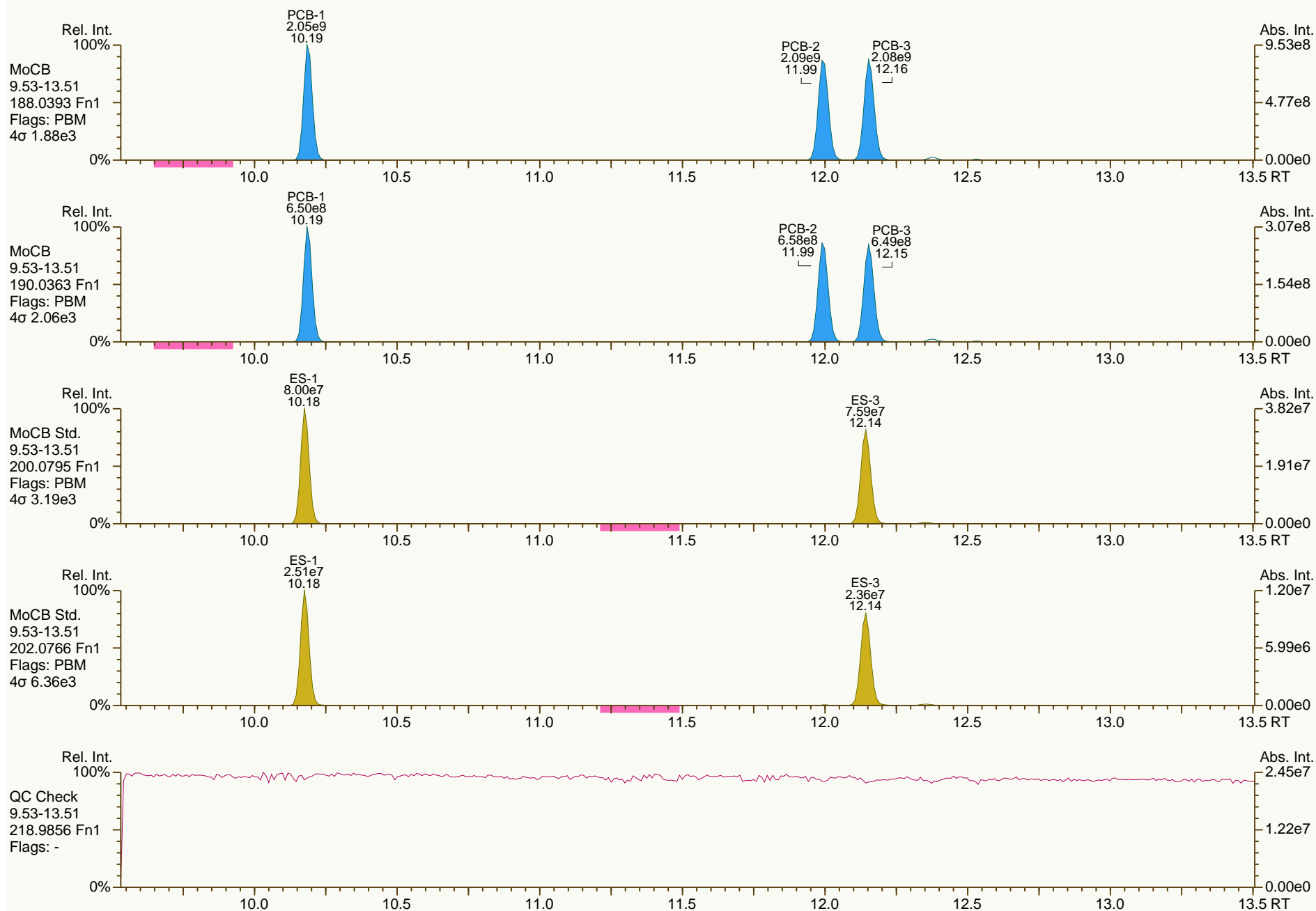
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SGS-AP ID: CS5\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 65

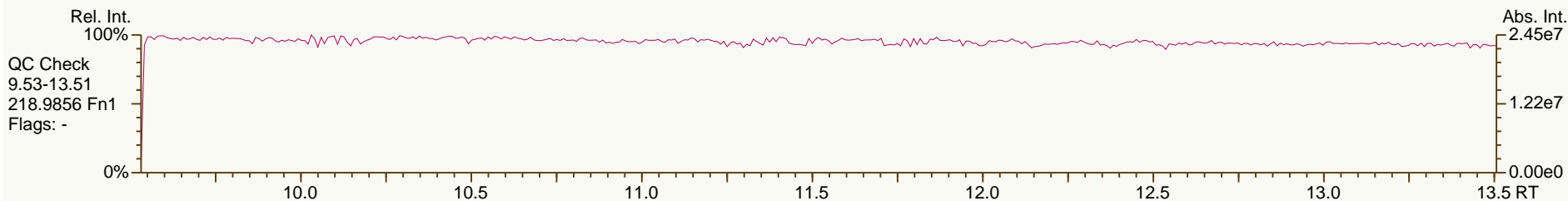
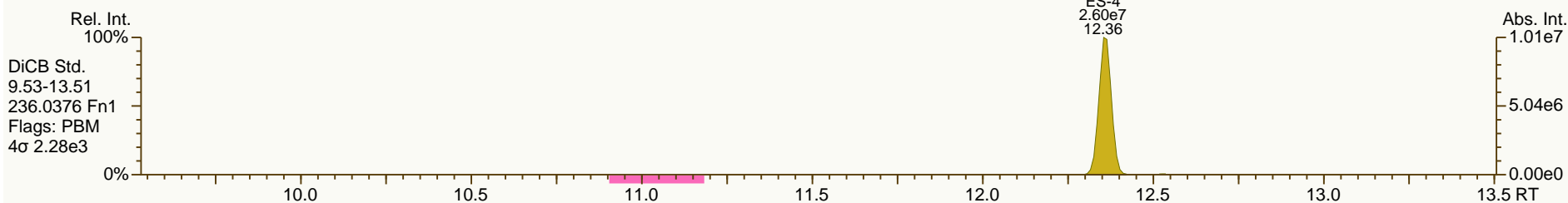
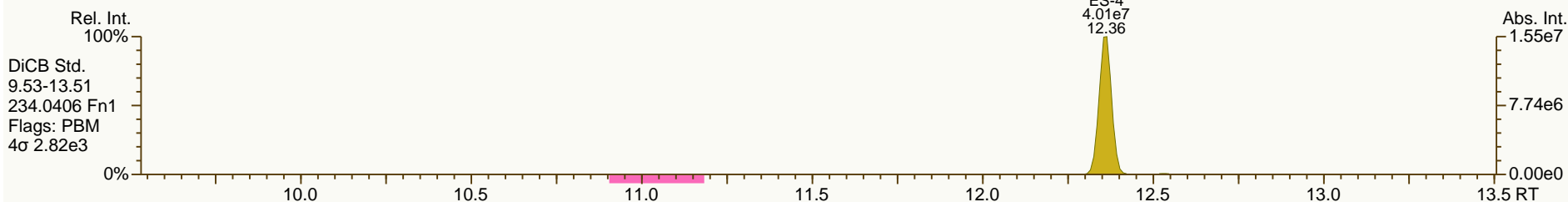
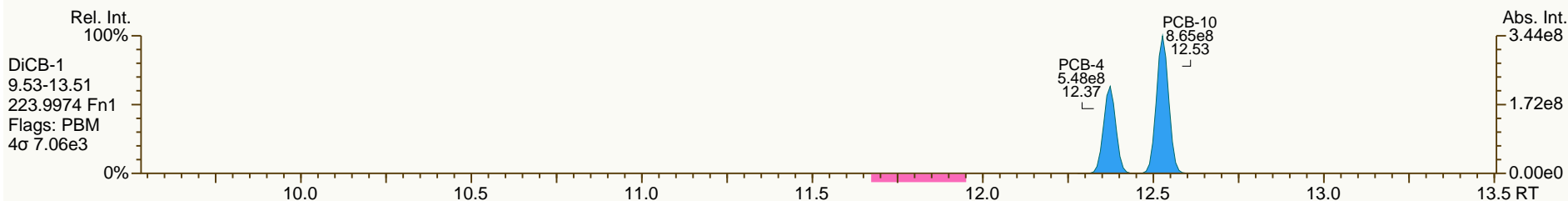
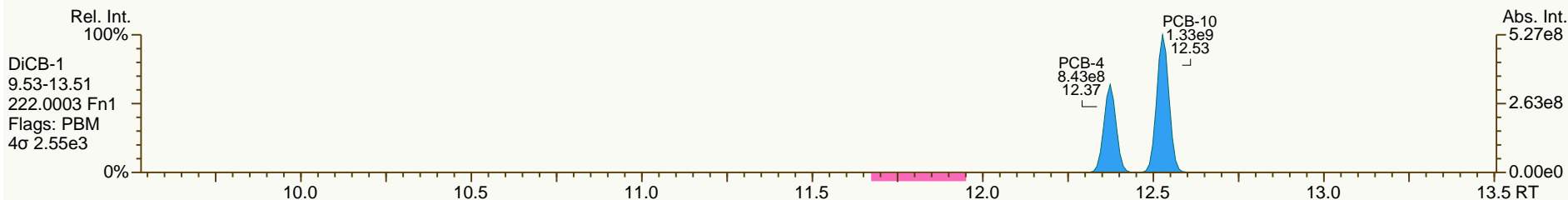
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SGS-AP ID: CS5\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 65

Acq: 05-Feb-2014 15:06:03  
User: CTW Datafile: 140205S07



SGS-AP ID: CS5\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 65

Acq: 05-Feb-2014 15:06:03  
User: CTW Datafile: 140205S07

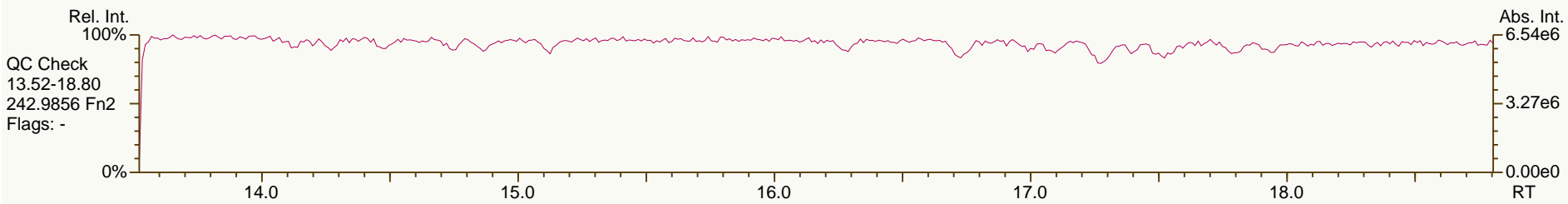
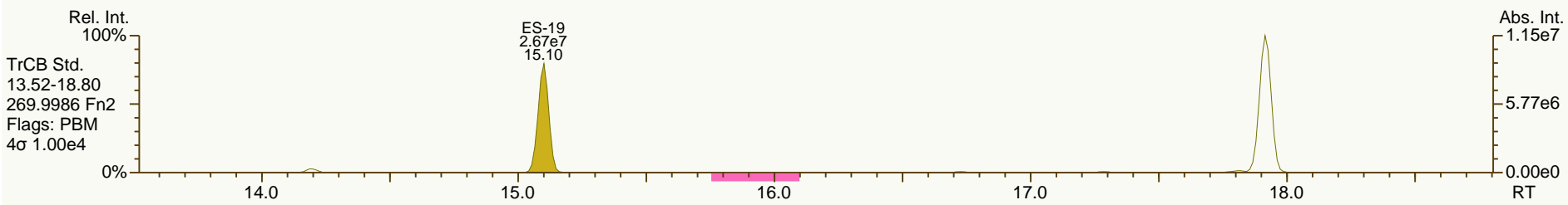
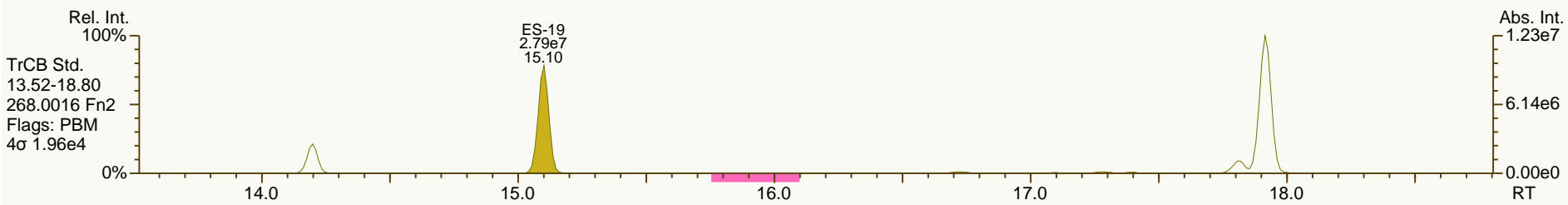
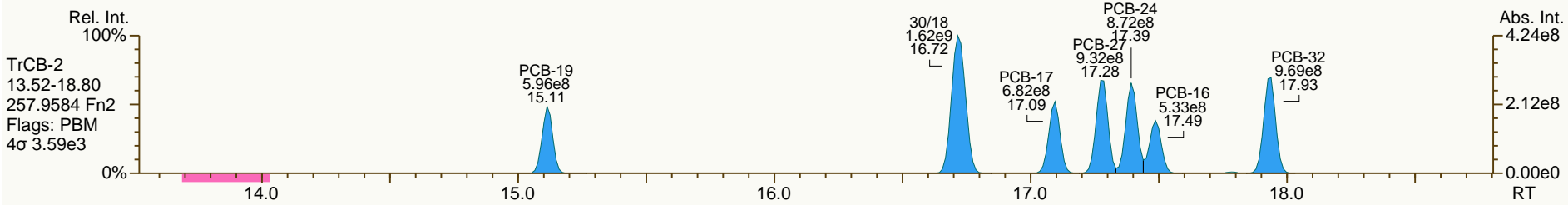
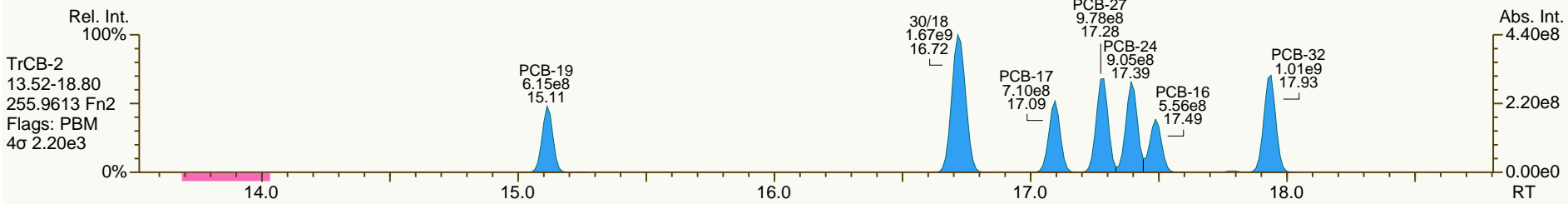




SGS-AP ID: CS5\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 65

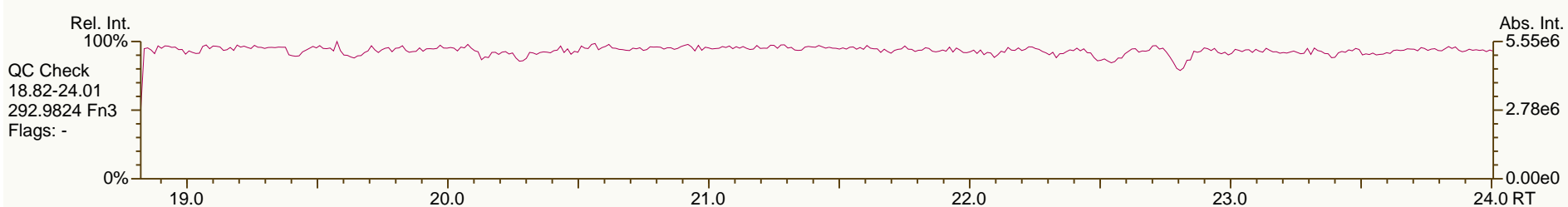
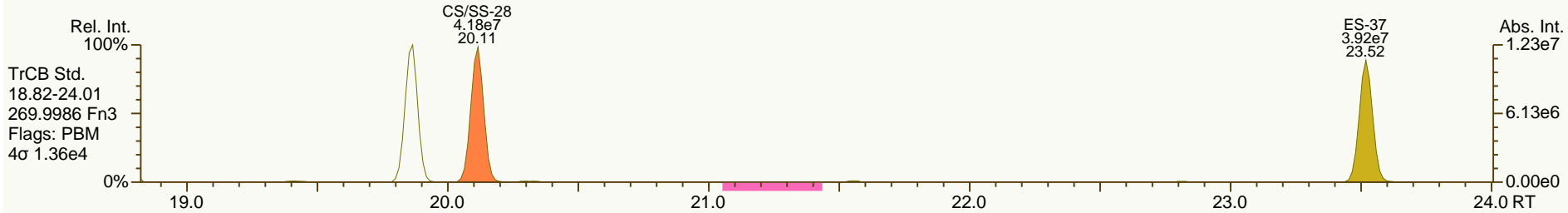
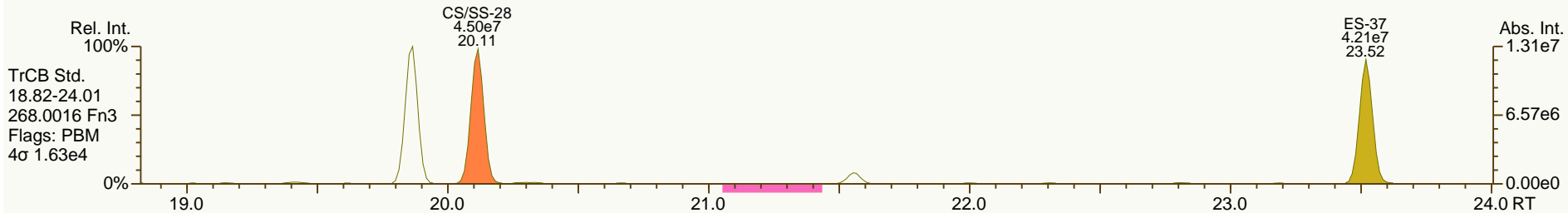
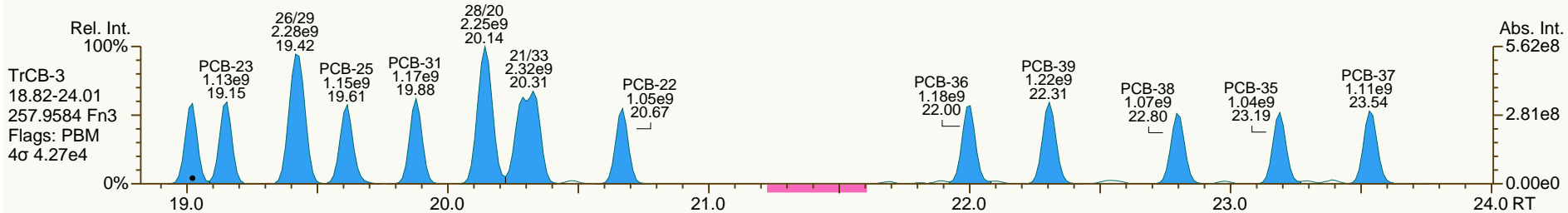
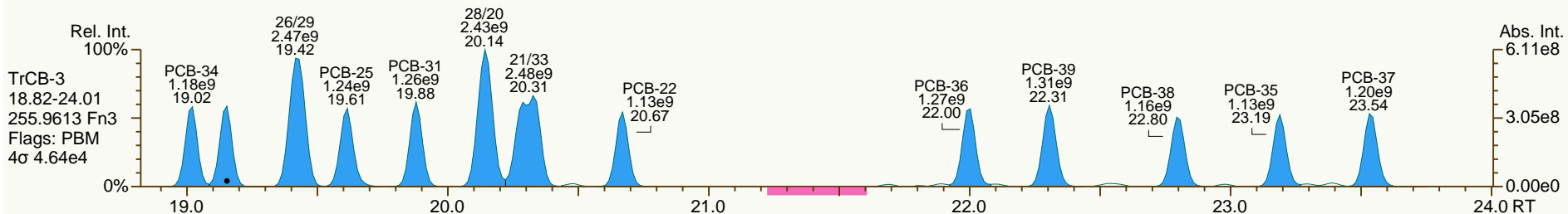
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SGS-AP ID: CS5\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-79-1  
VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 65

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SGS-AP ID: CS5\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

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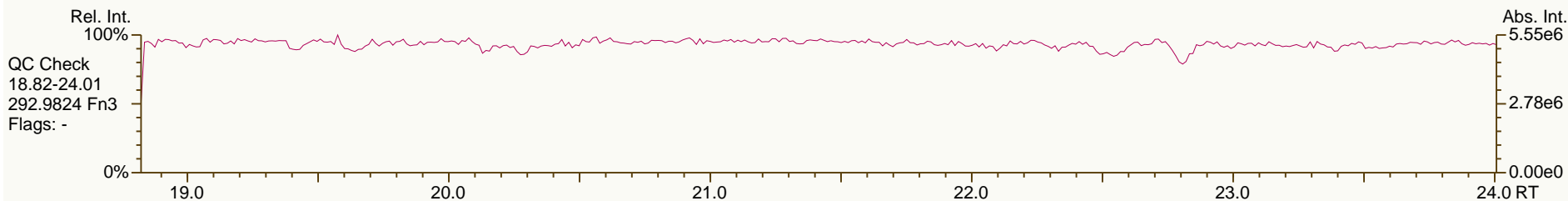
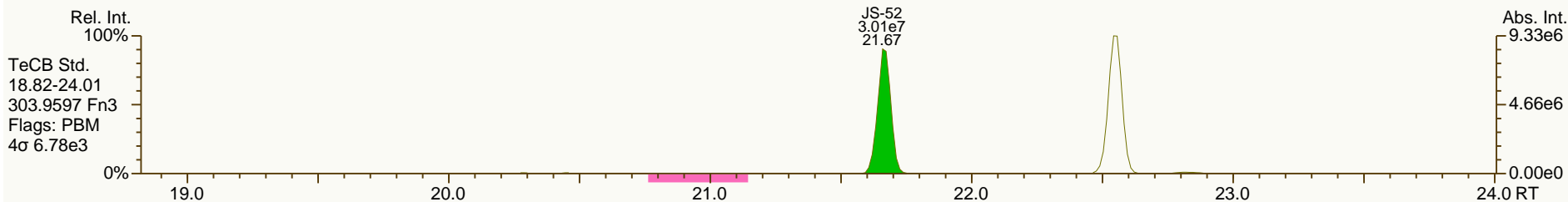
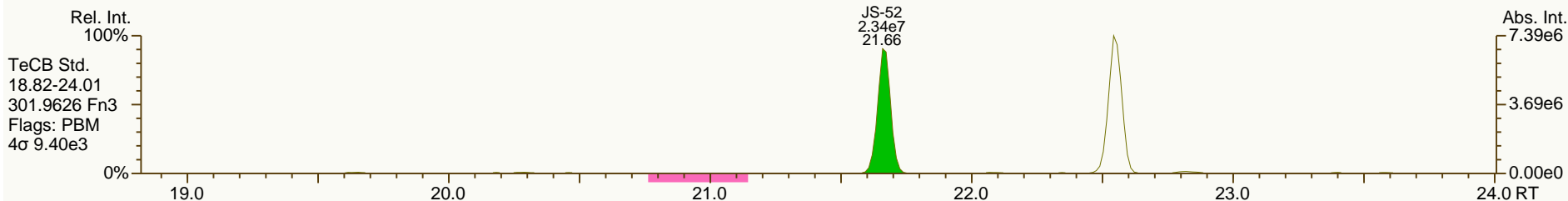
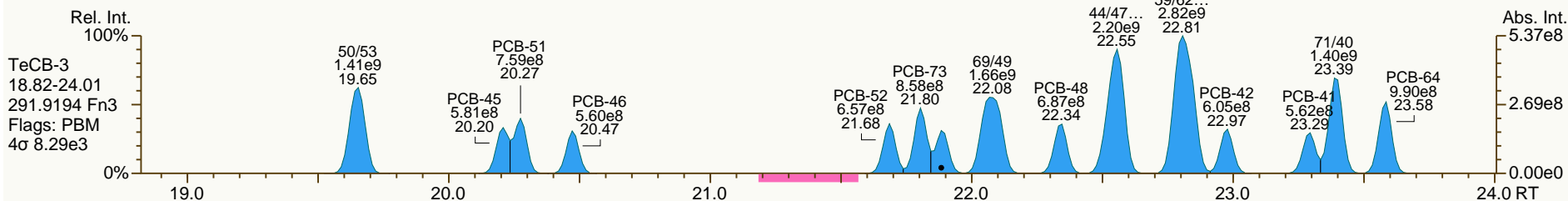
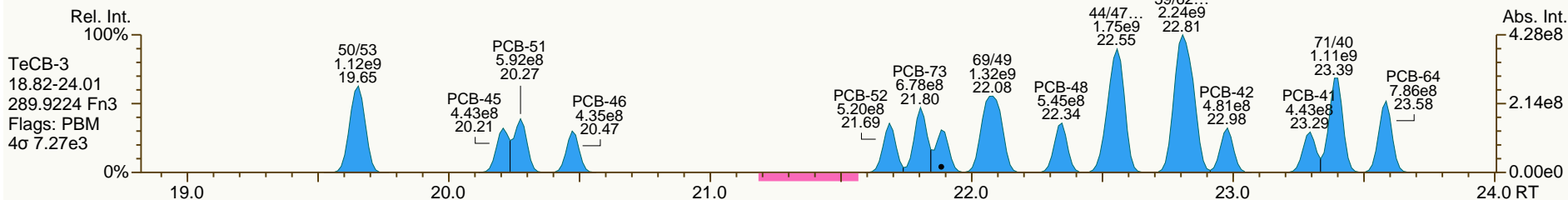
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SGS-AP ID: CS5\_140205\_PCB\_SA  
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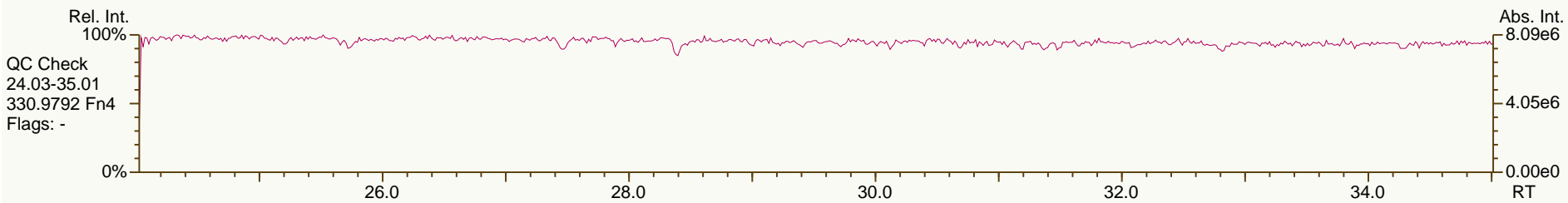
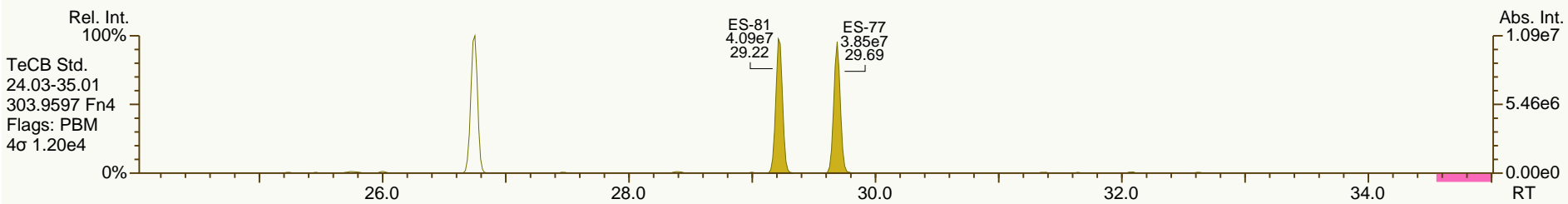
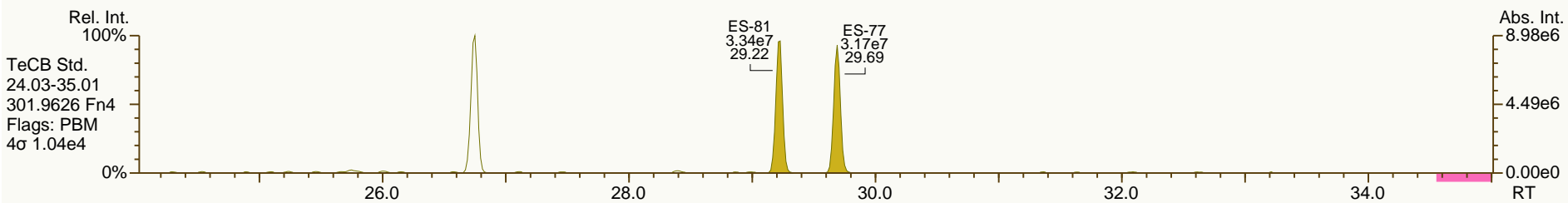
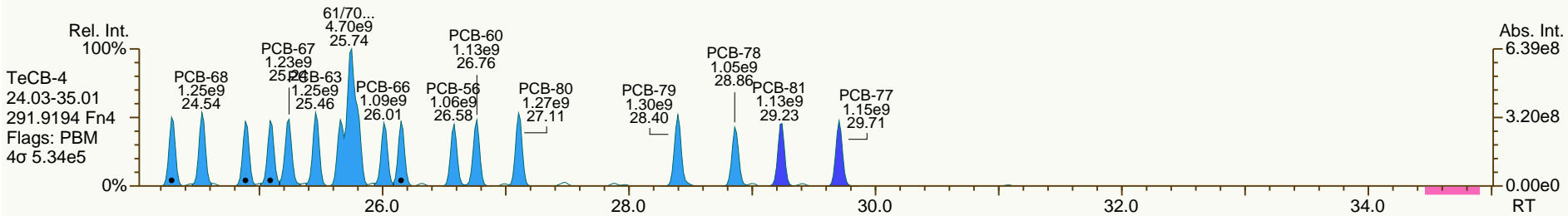
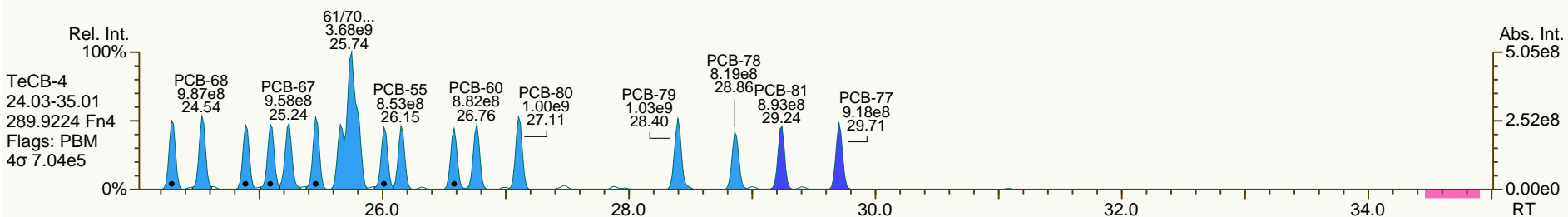
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SGS-AP ID: CS5\_140205\_PCB\_SA  
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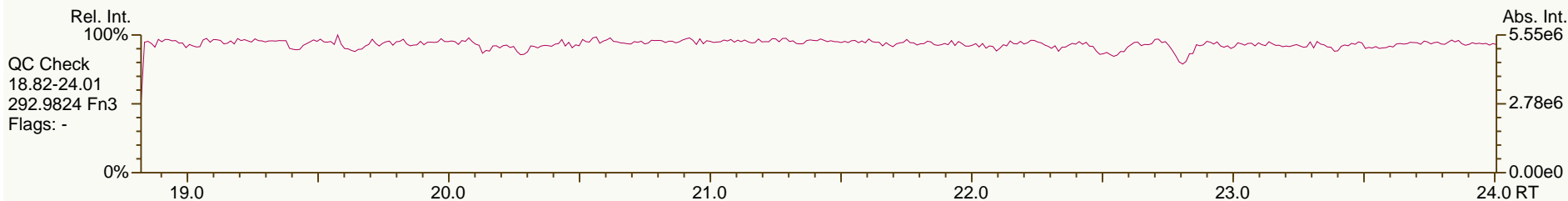
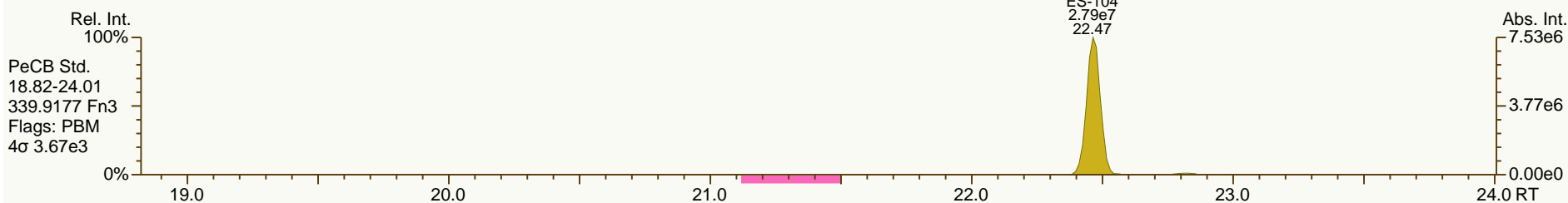
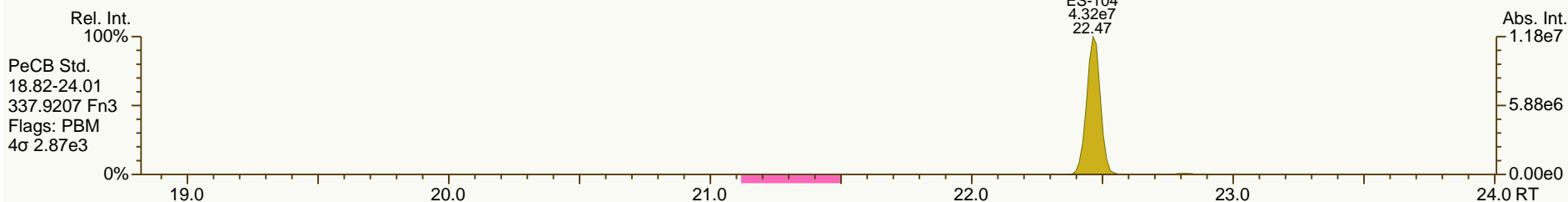
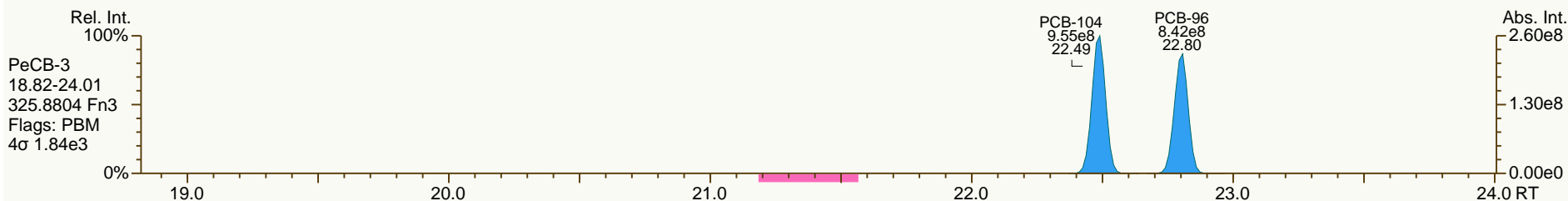
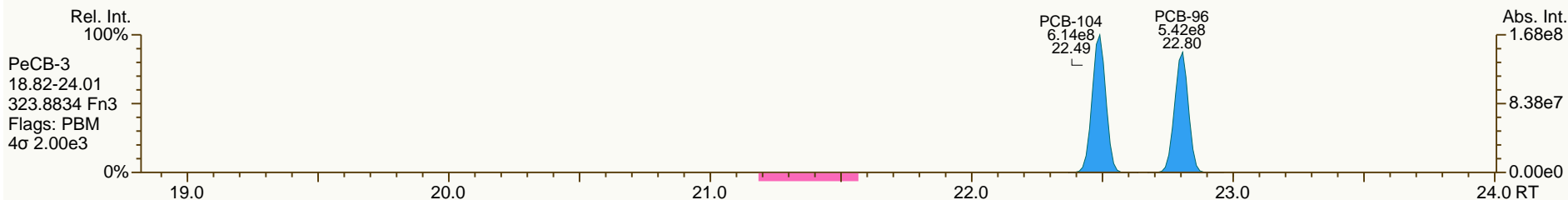
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SGS-AP ID: CS5\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

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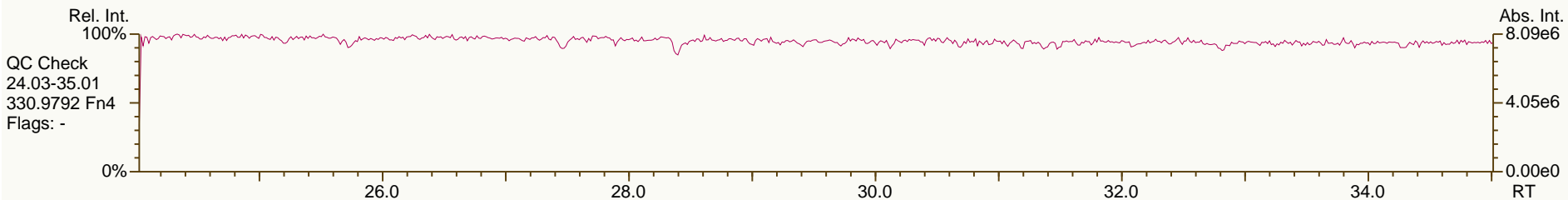
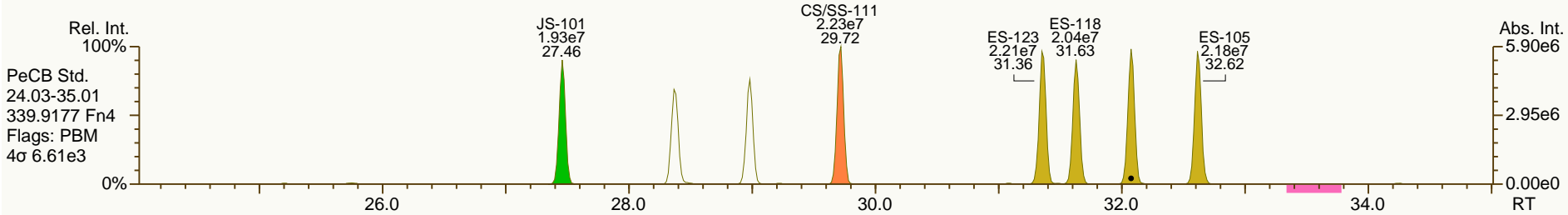
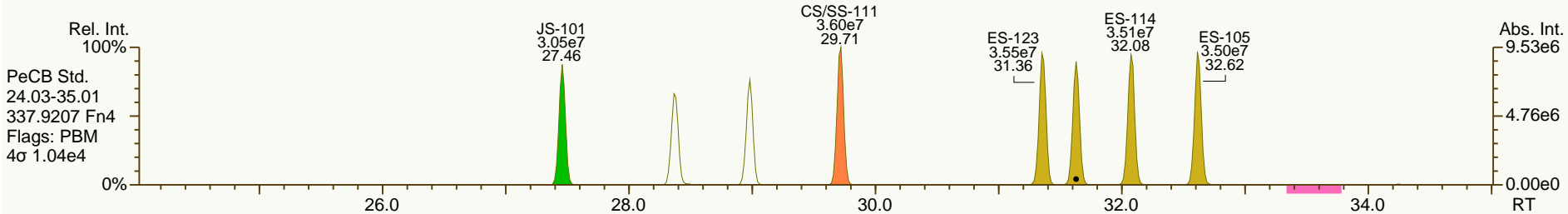
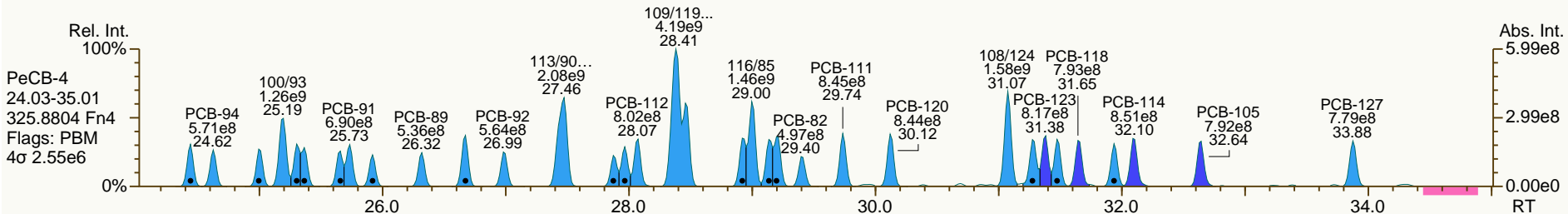
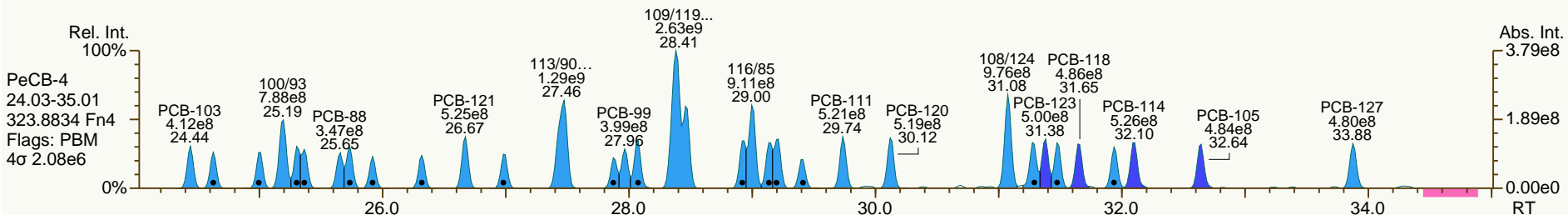
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SGS-AP ID: CS5\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-1  
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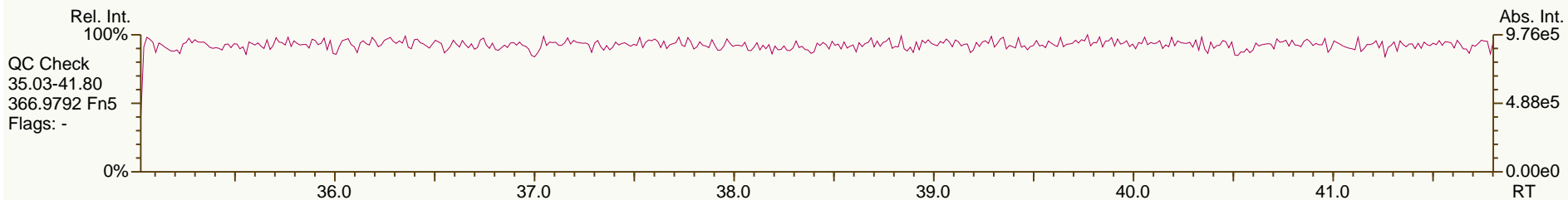
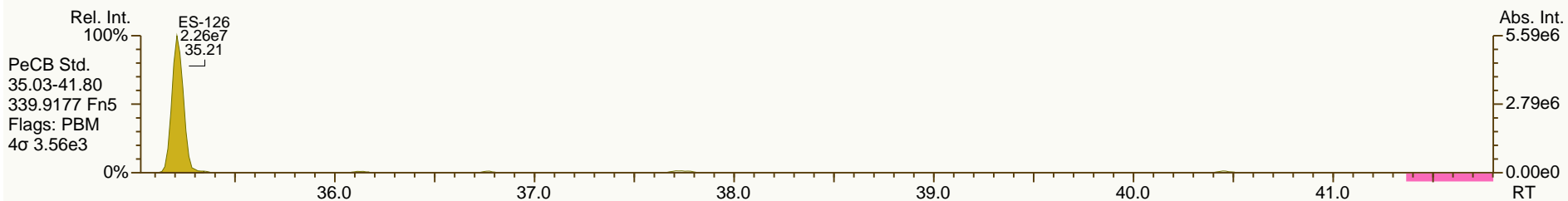
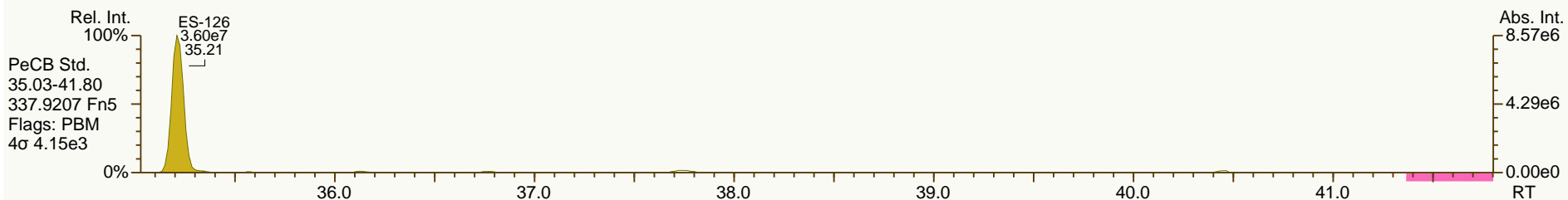
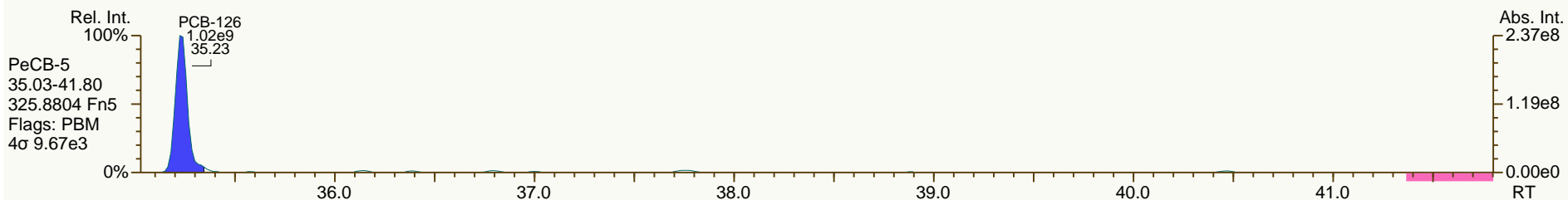
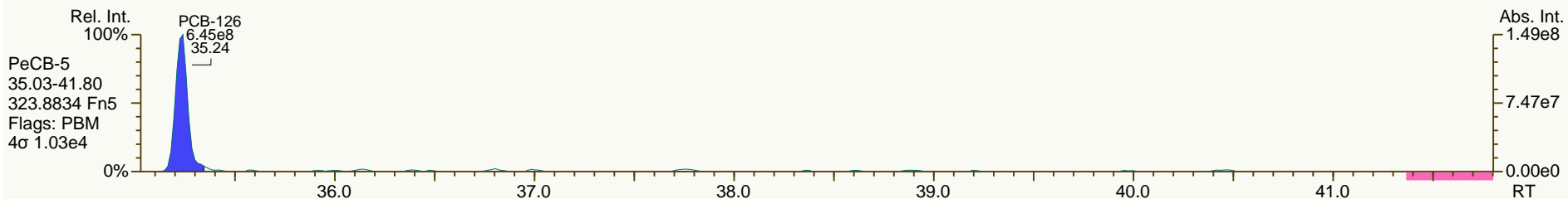
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SGS-AP ID: CS5\_140205\_PCB\_SA  
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Sample ID: SIL 13-79-1  
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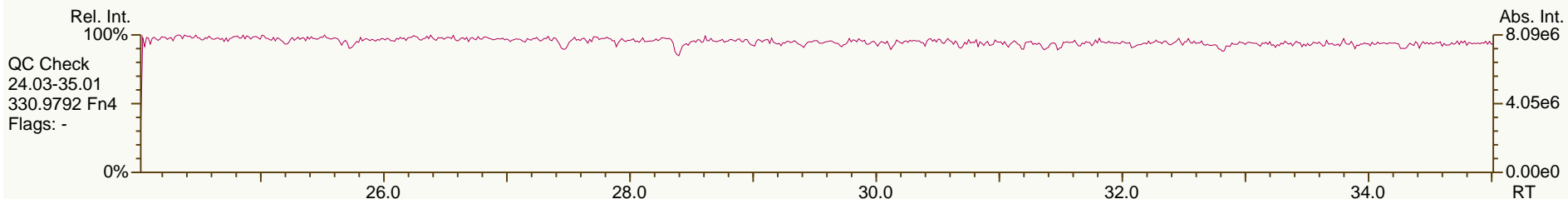
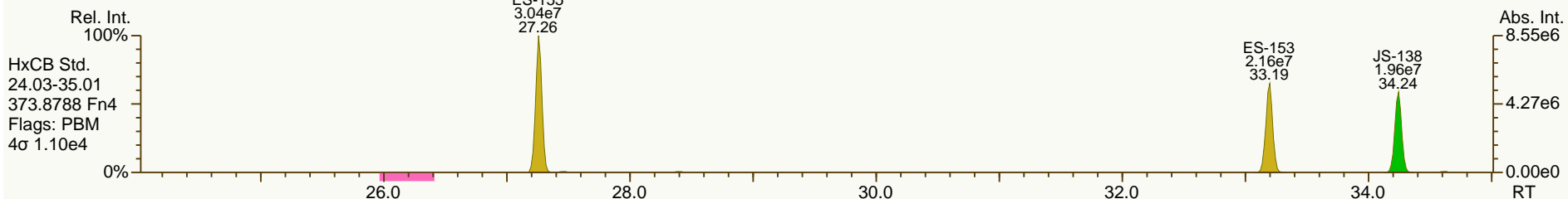
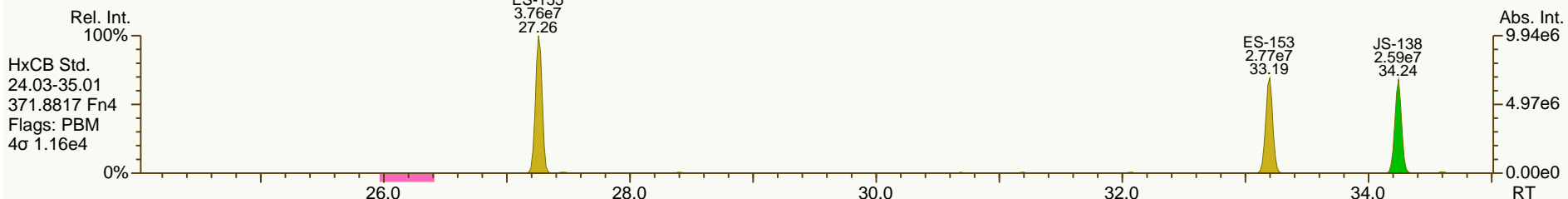
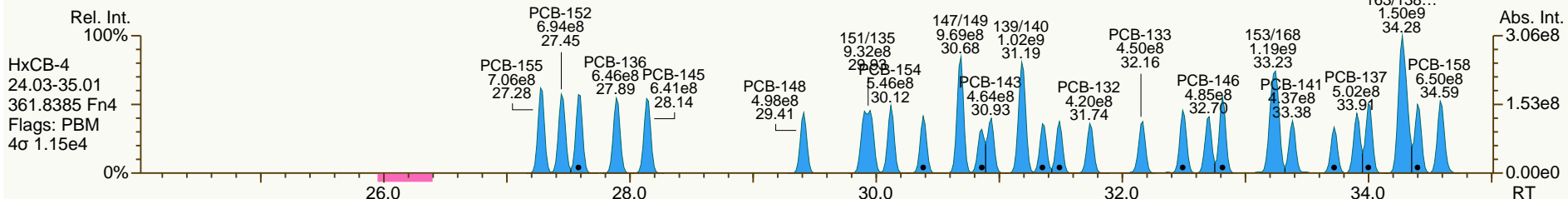
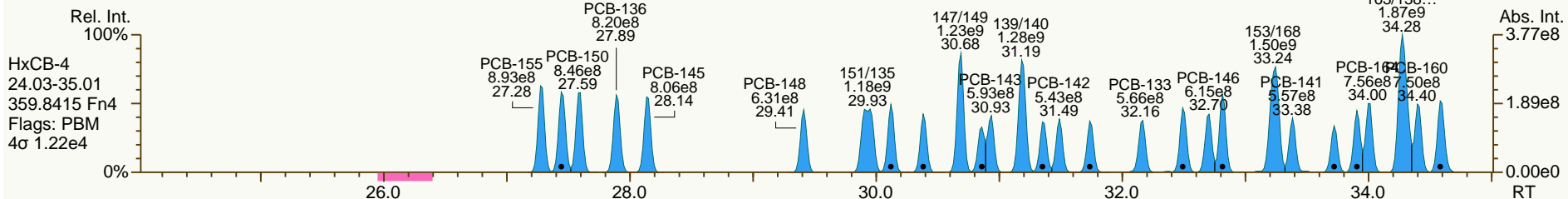




SGS-AP ID: CS5\_140205\_PCB\_SA  
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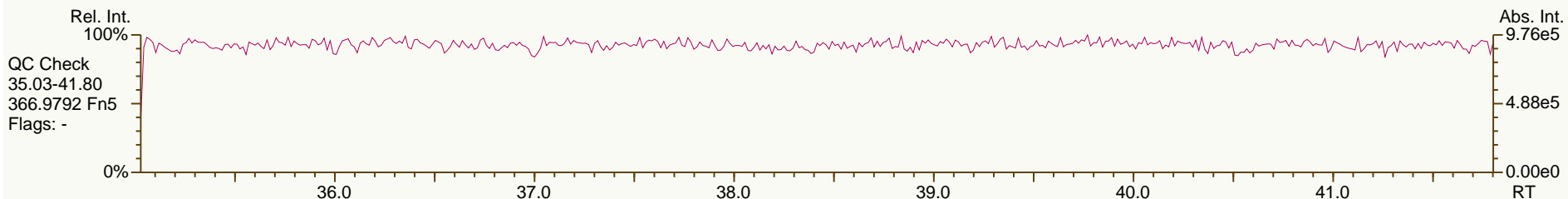
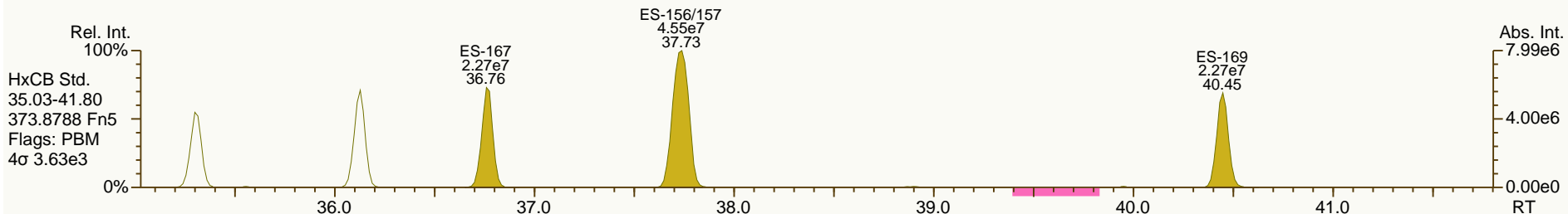
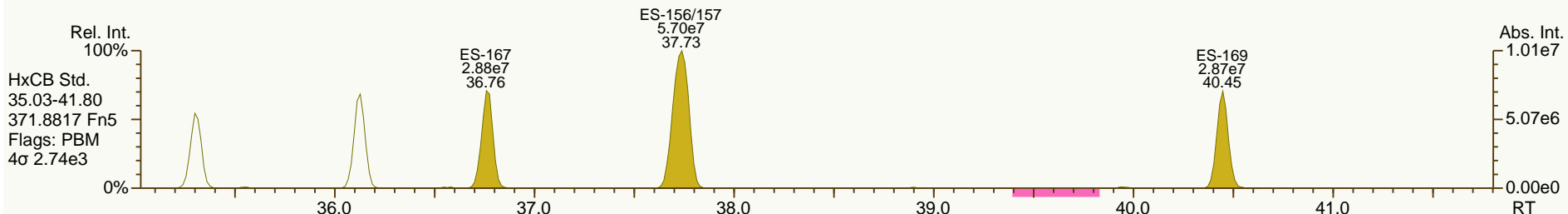
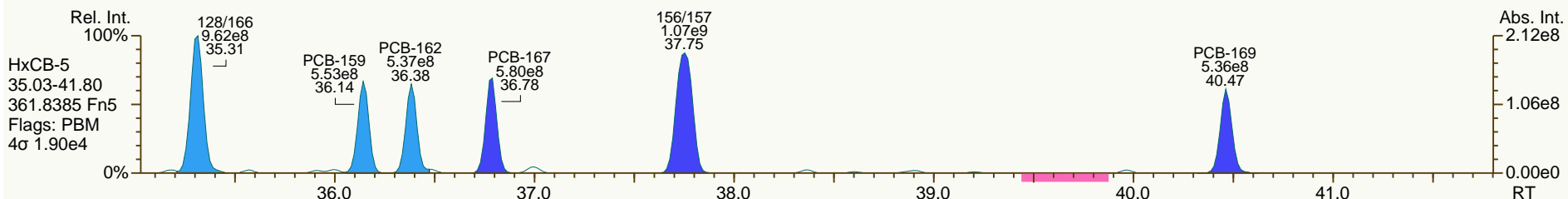
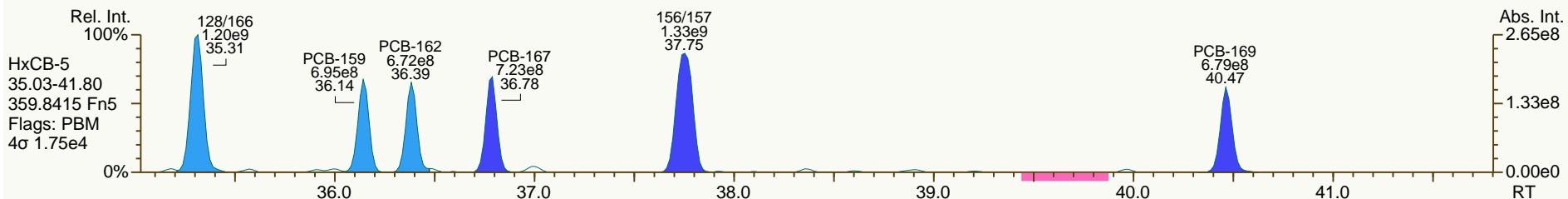
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SGS-AP ID: CS5\_140205\_PCB\_SA  
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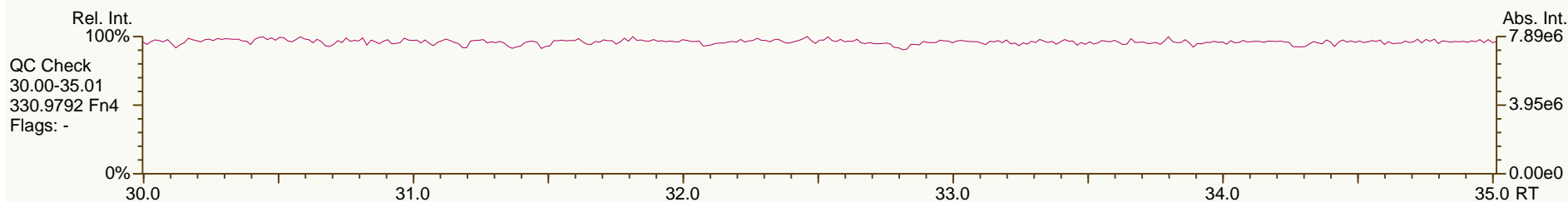
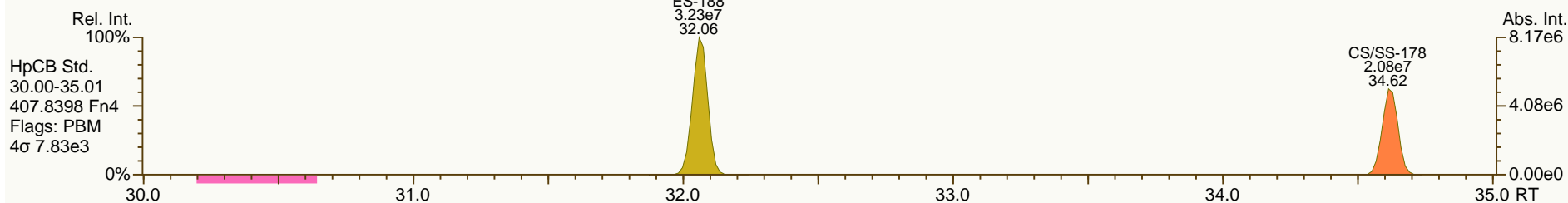
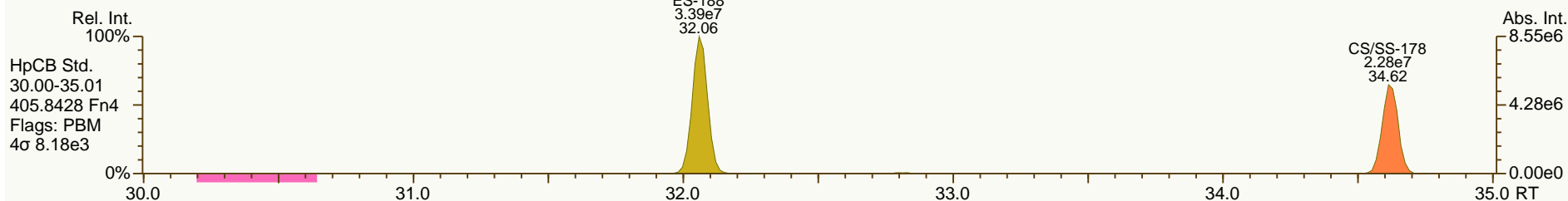
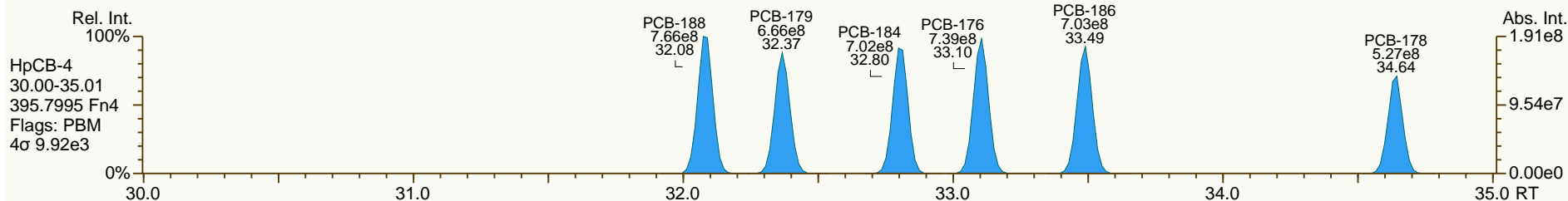
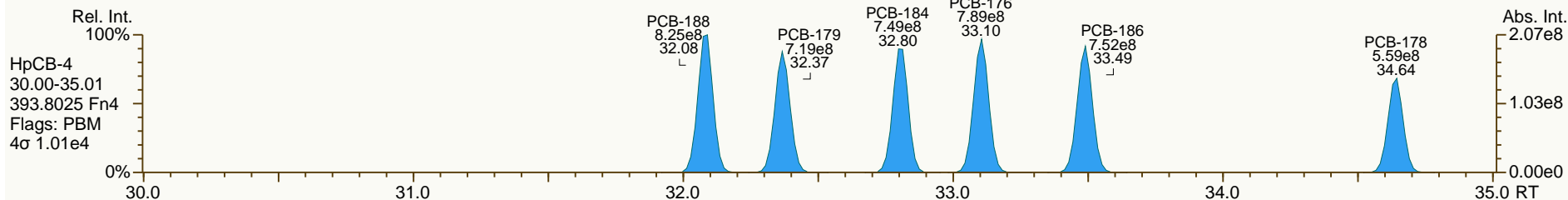
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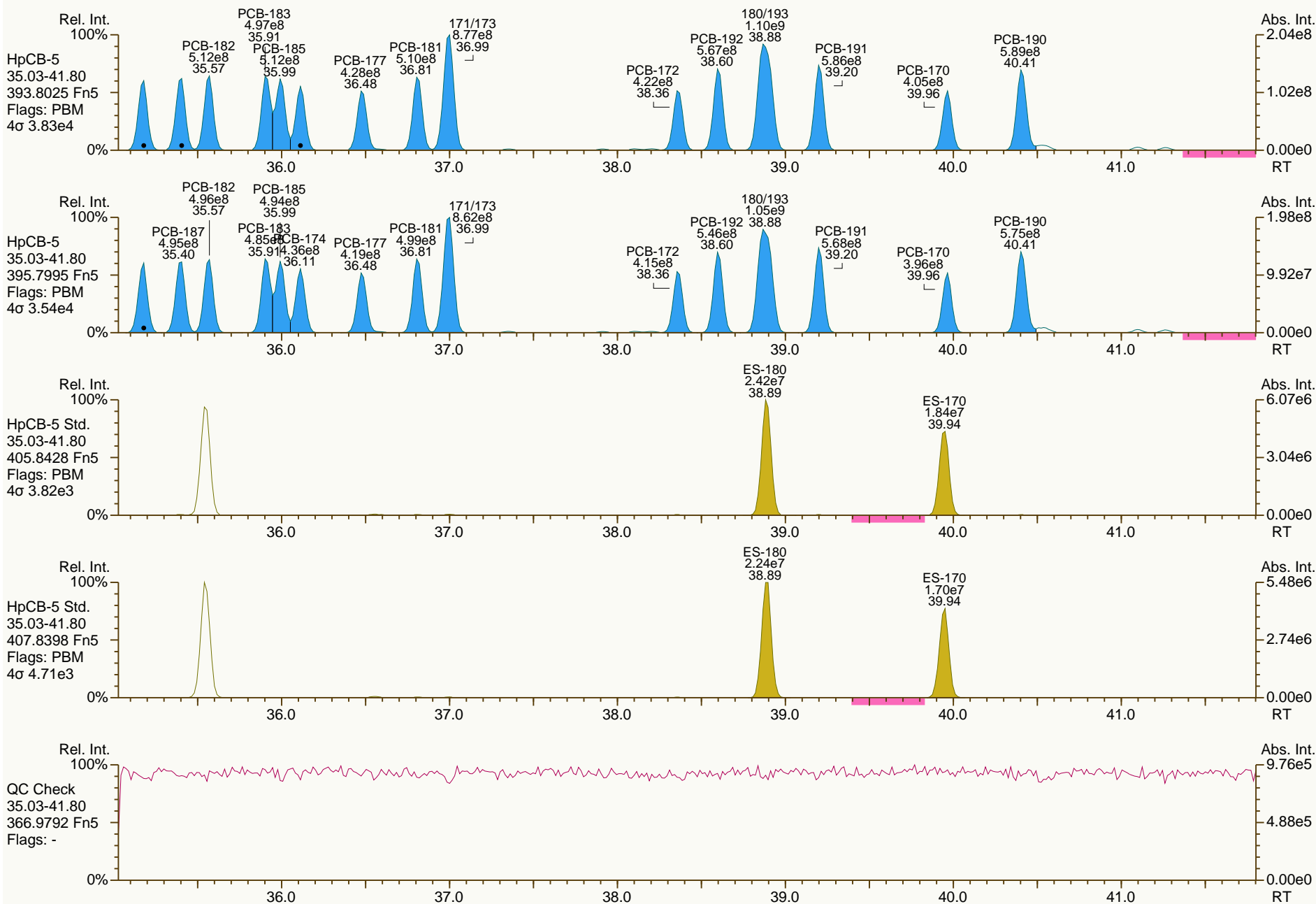
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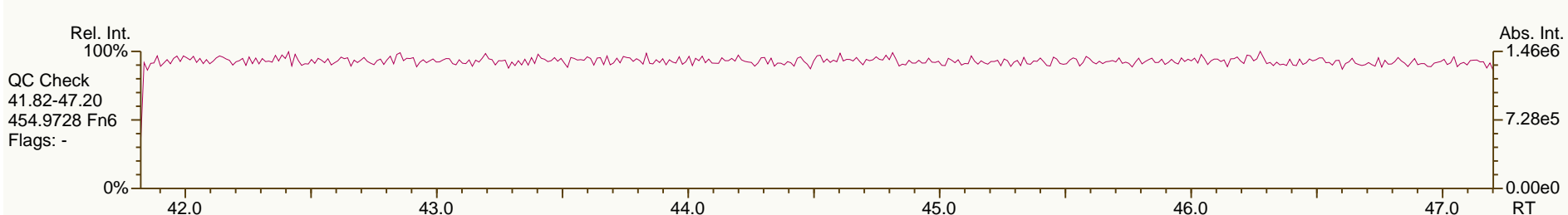
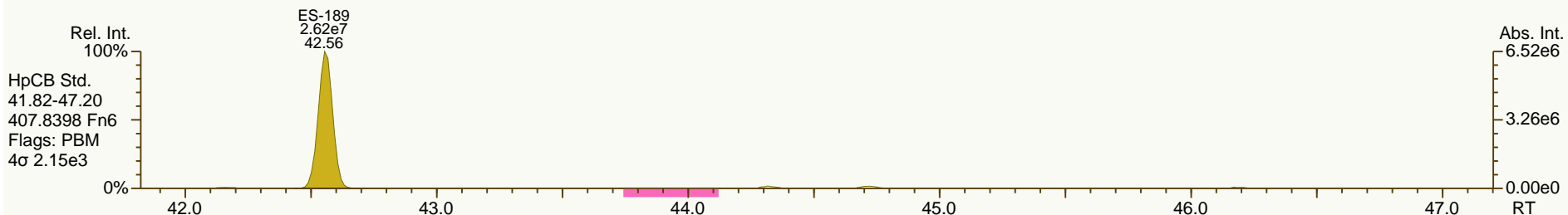
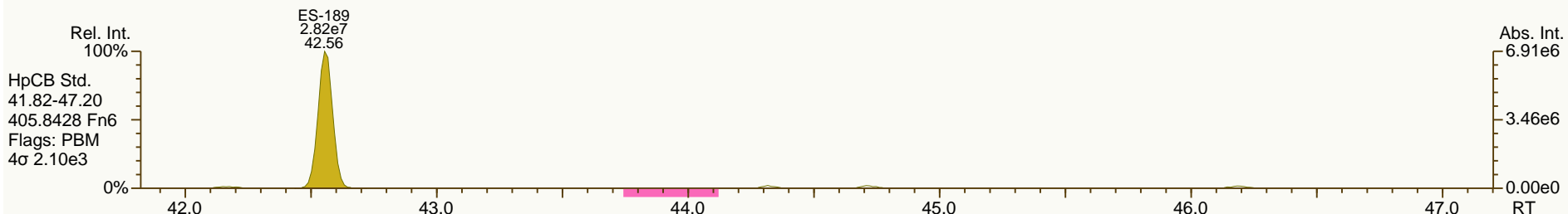
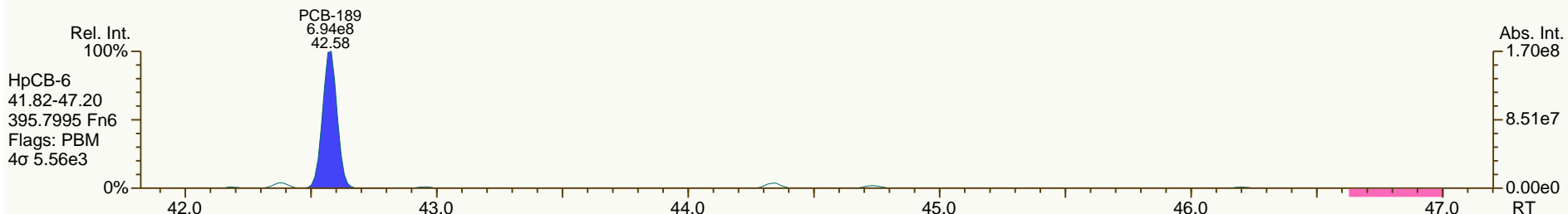
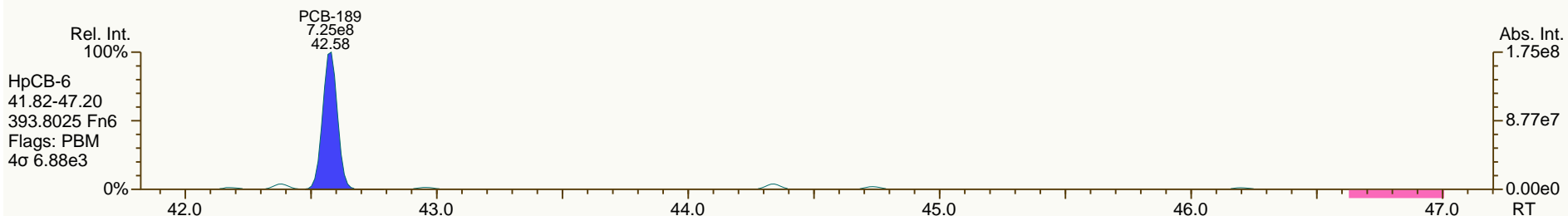
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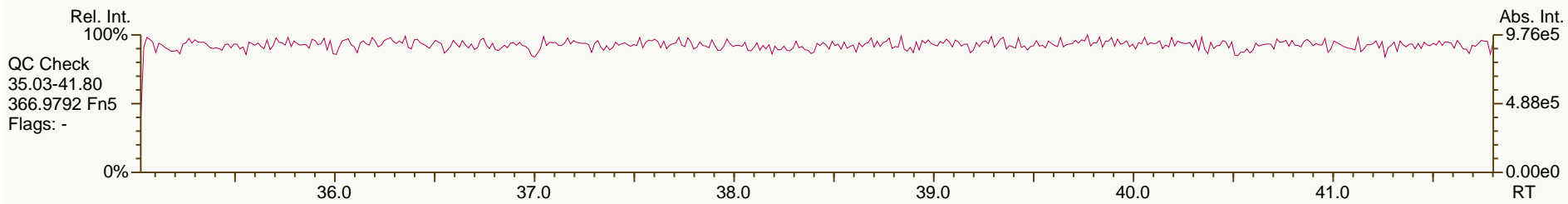
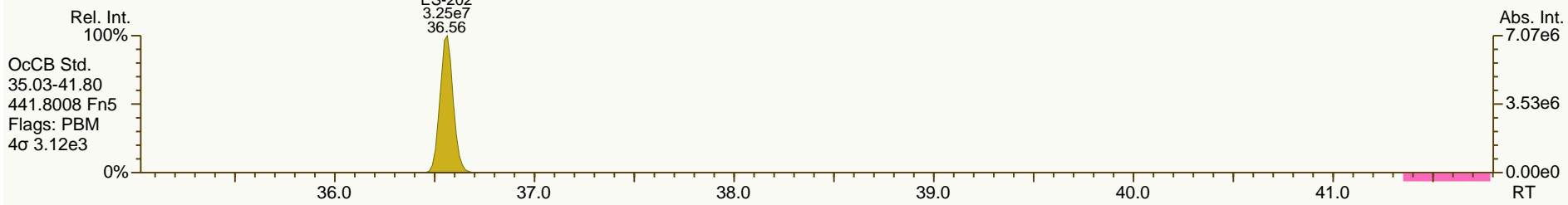
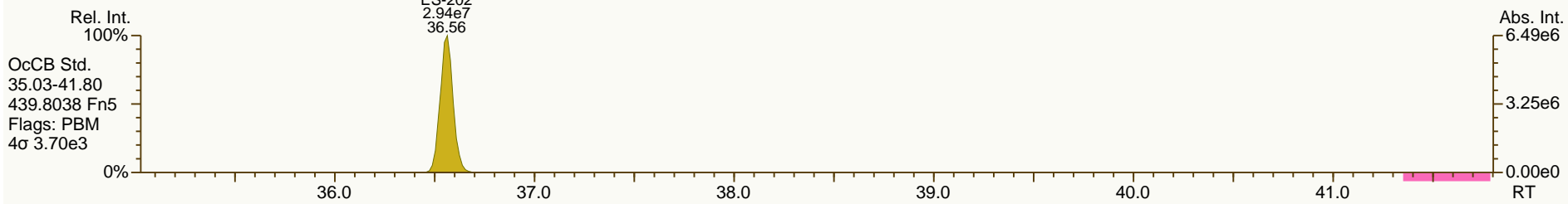
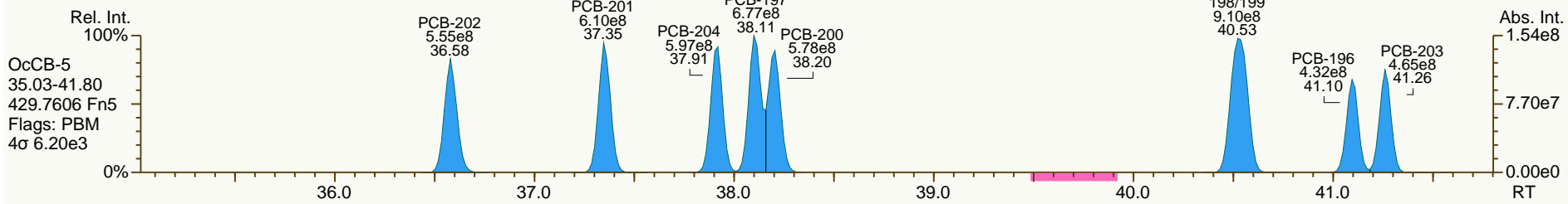
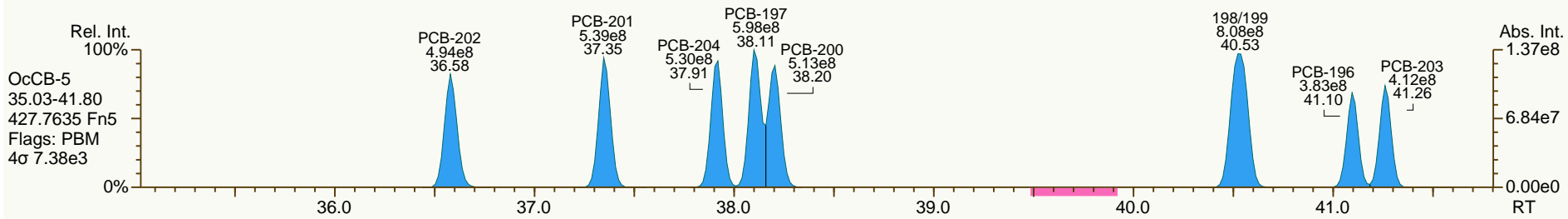
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SGS-AP ID: CS5\_140205\_PCB\_SA  
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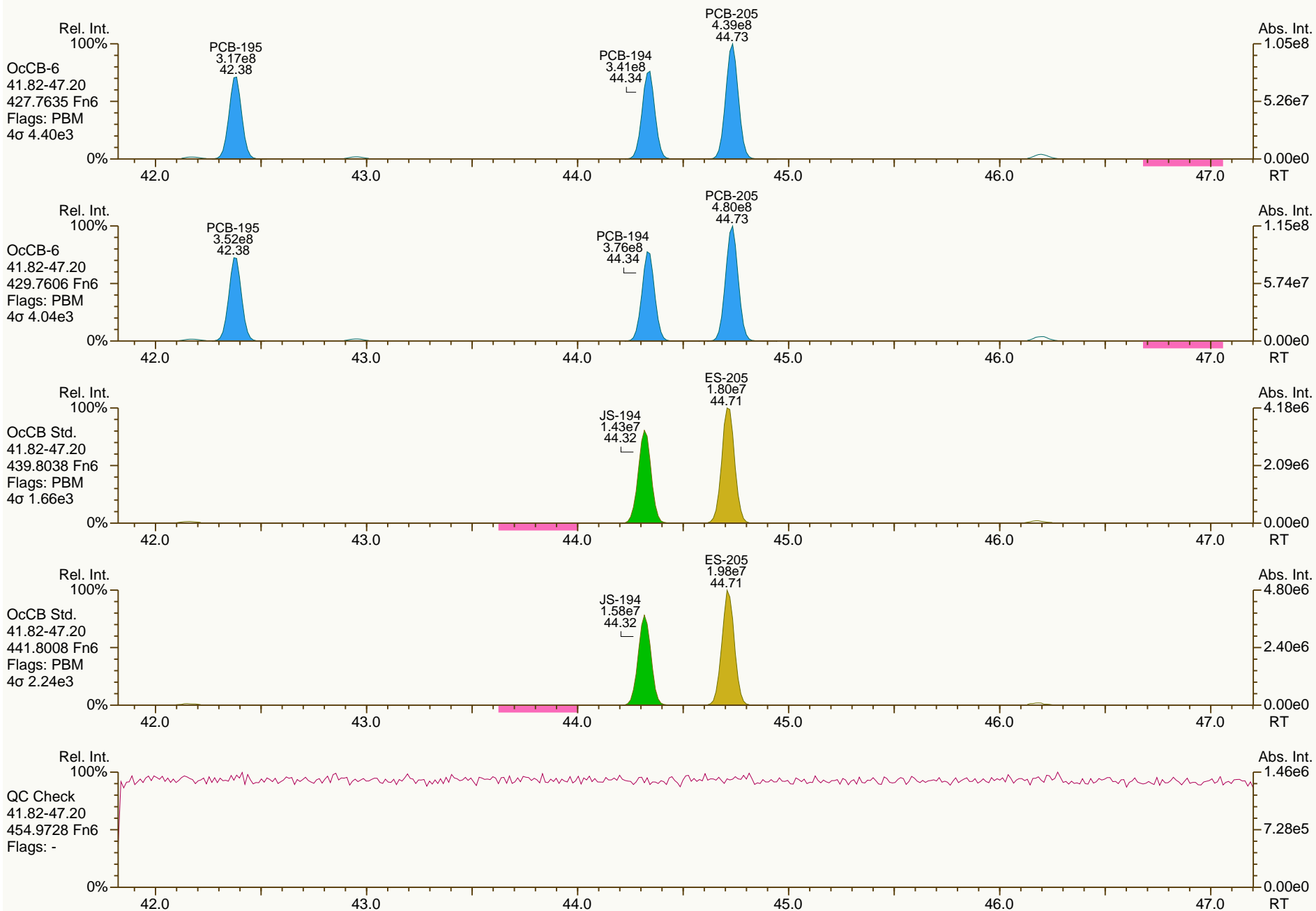
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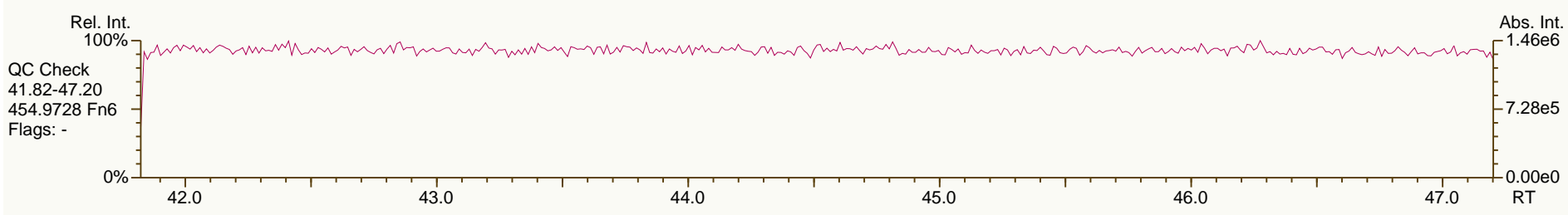
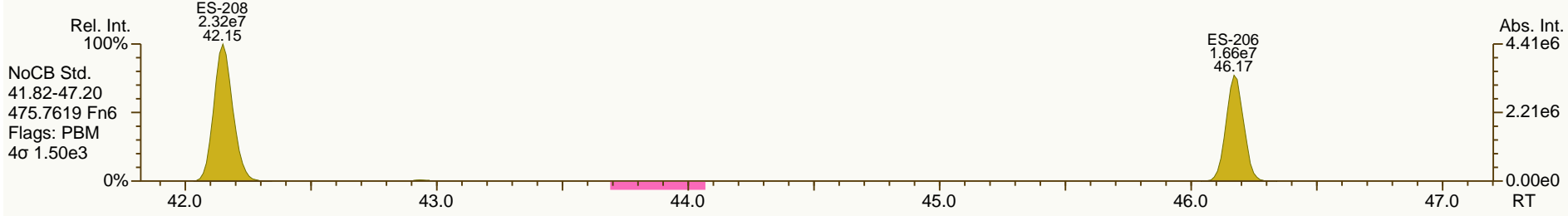
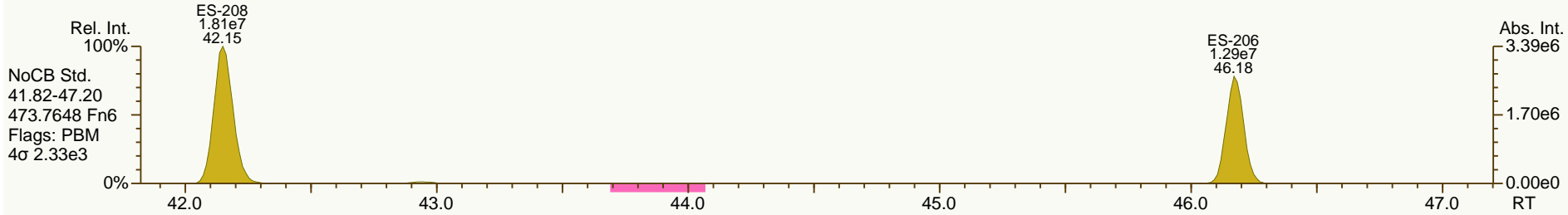
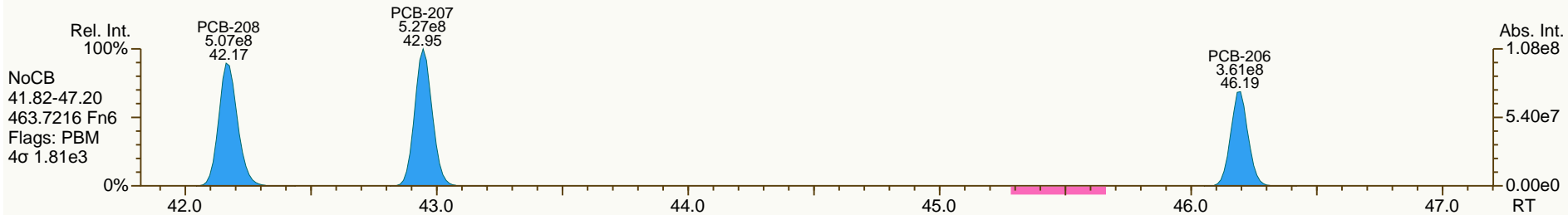
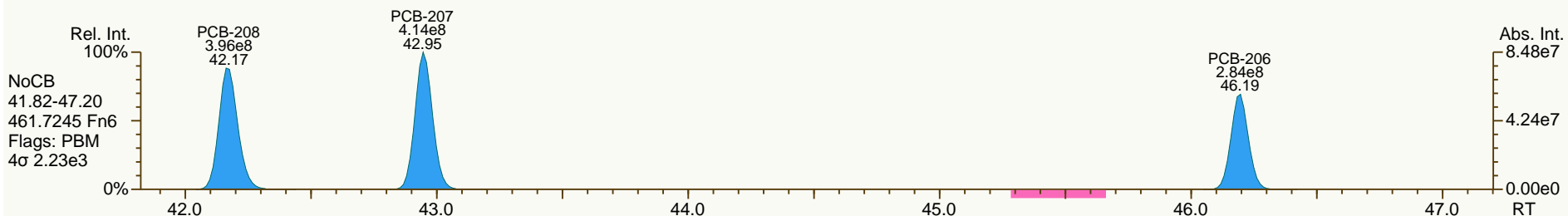
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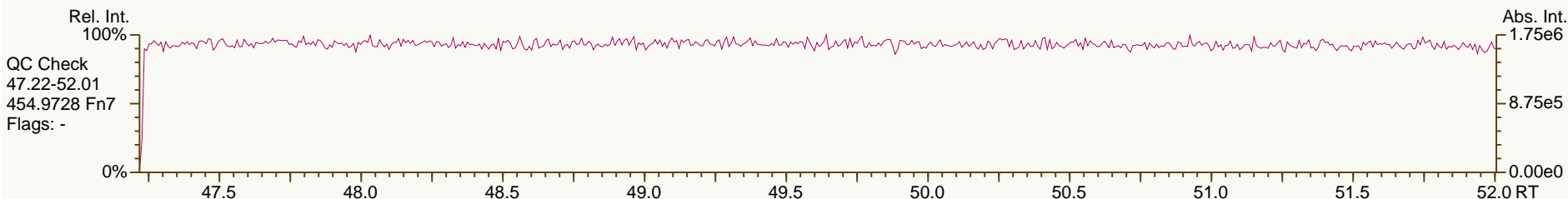
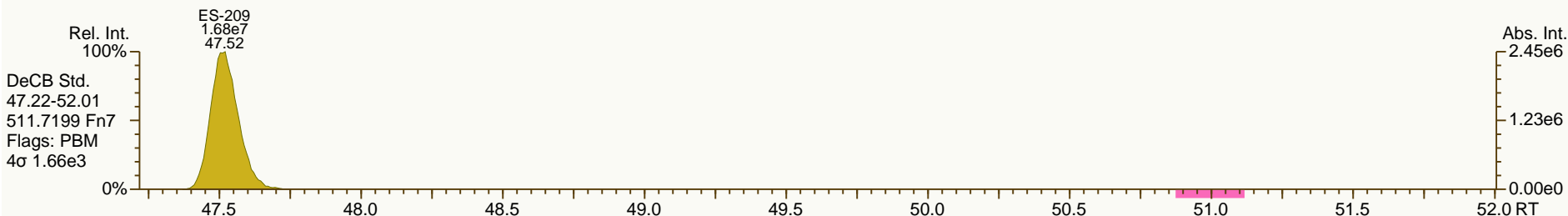
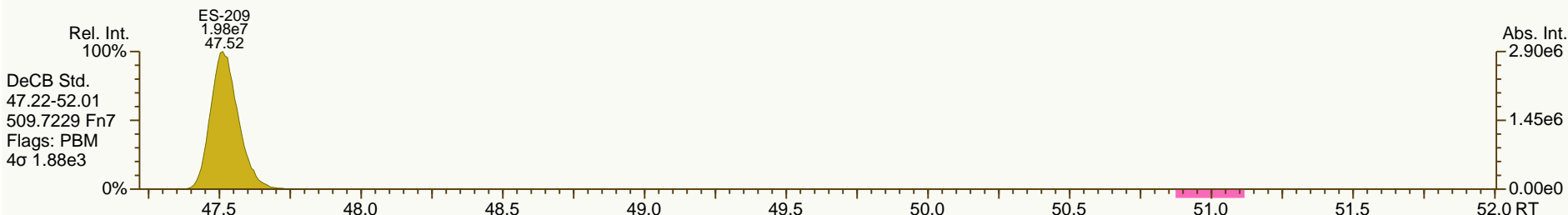
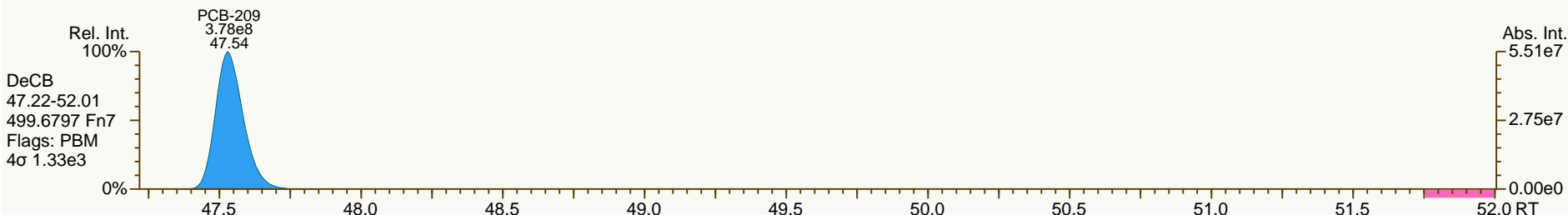
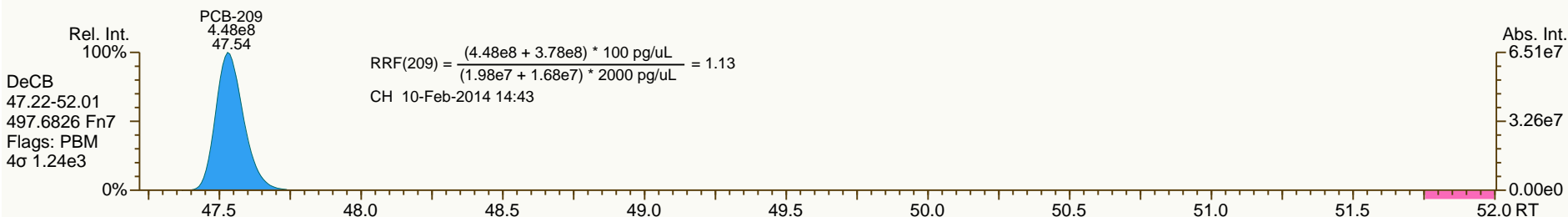




SGS-AP ID: CS5\_140205\_PCB\_SA  
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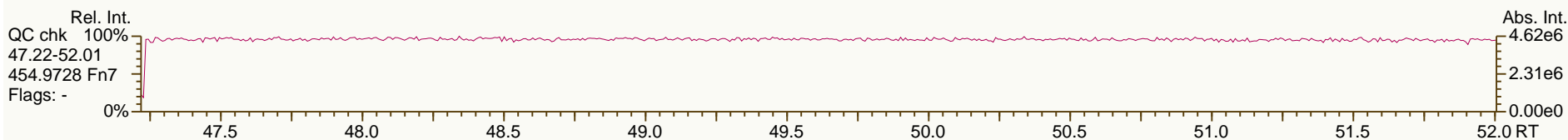
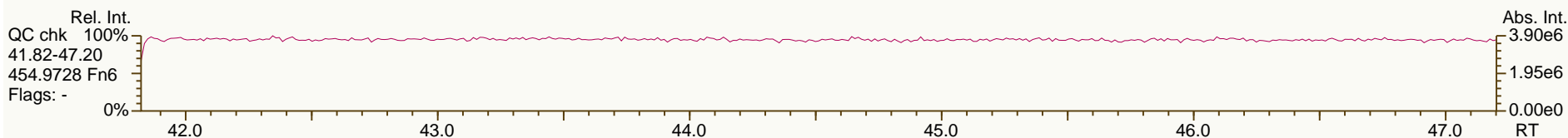
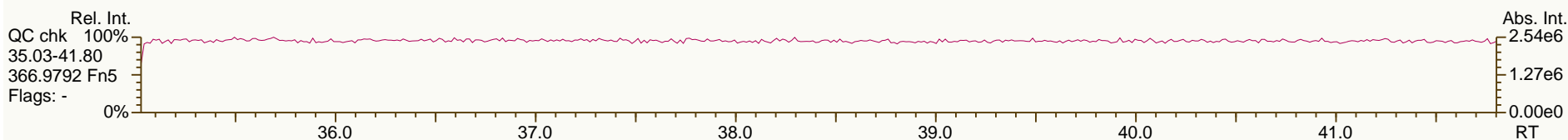
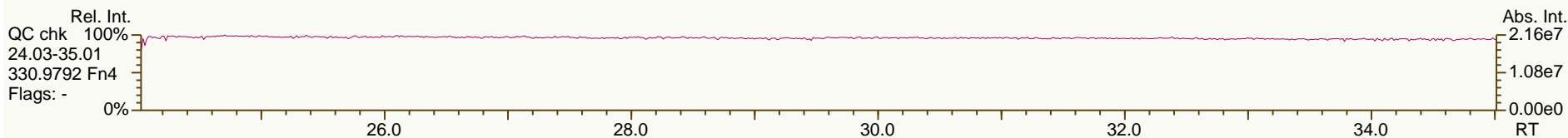
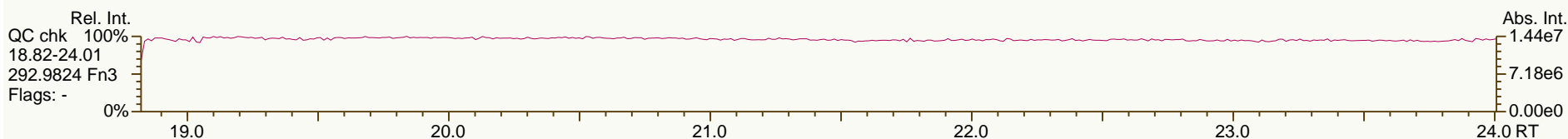
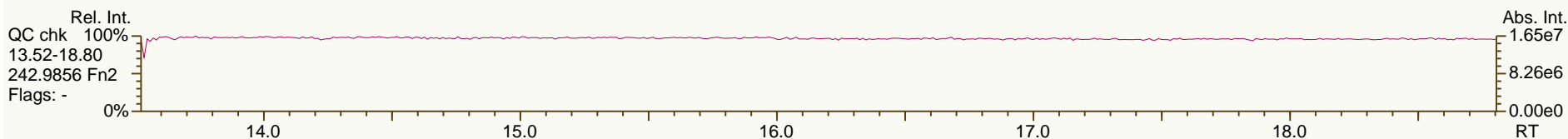
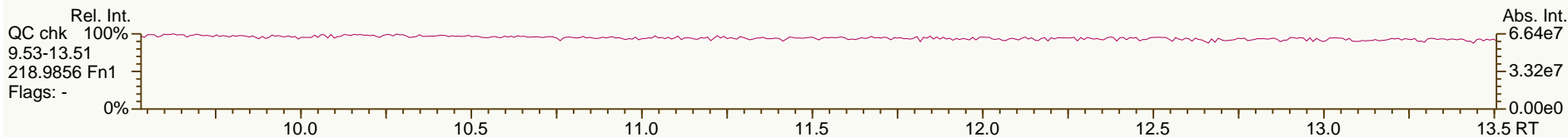
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SGS-AP ID: SBS\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1  
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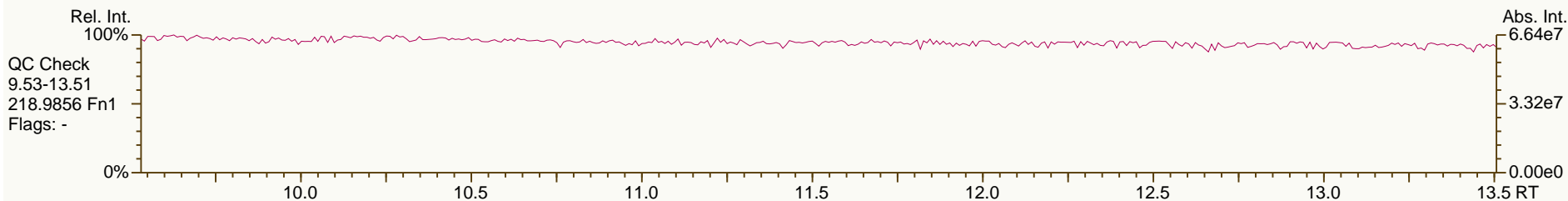
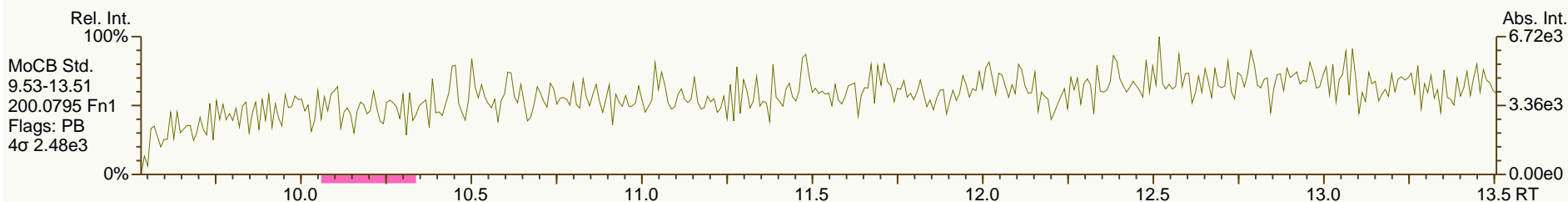
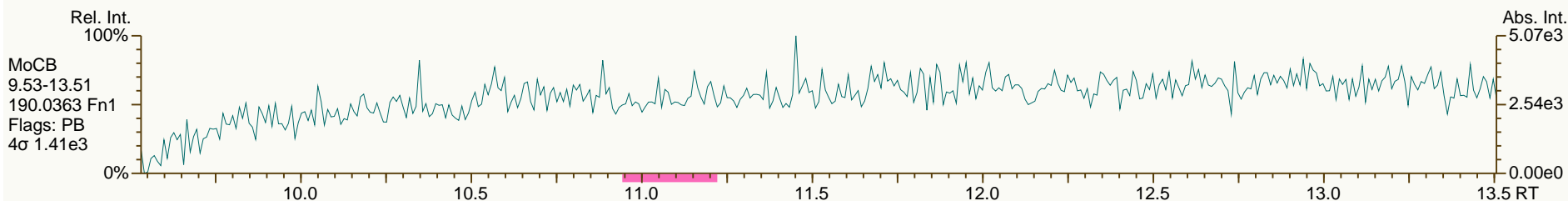
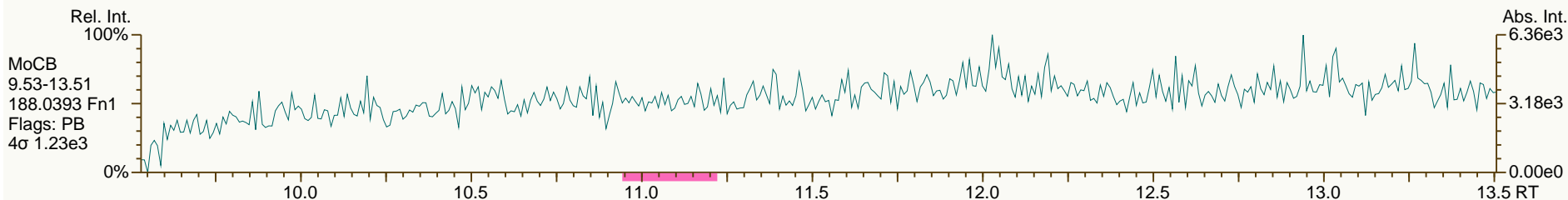
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SGS-AP ID: SBS\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

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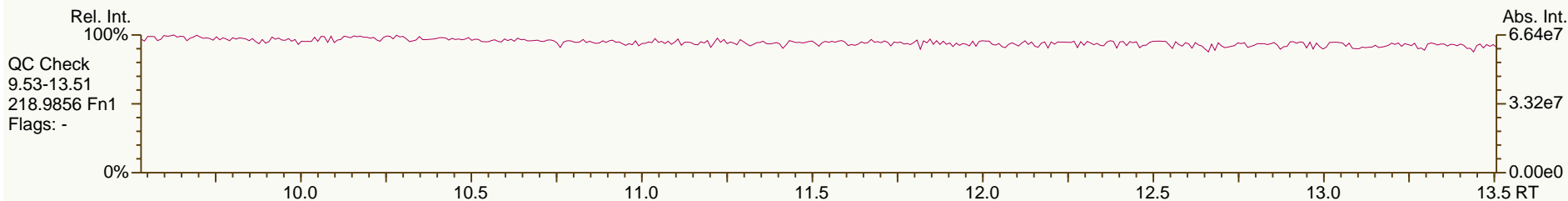
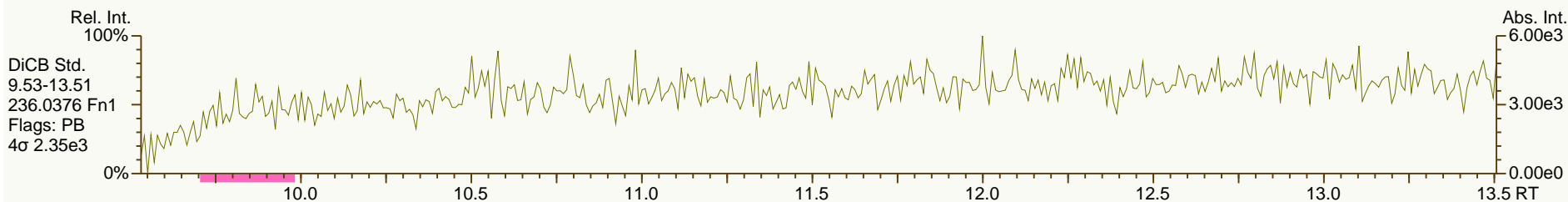
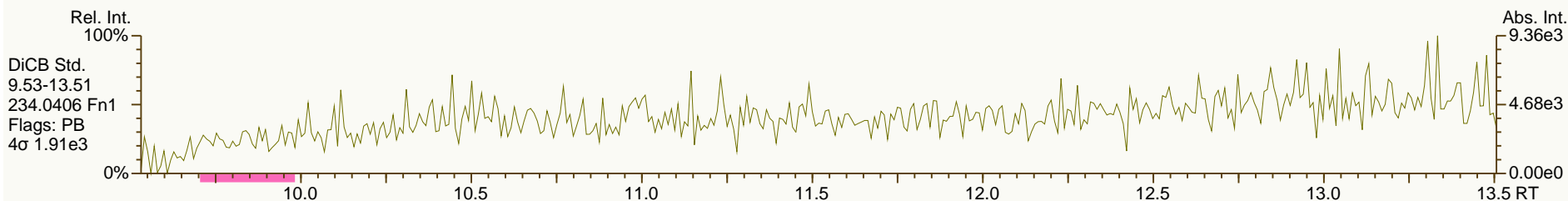
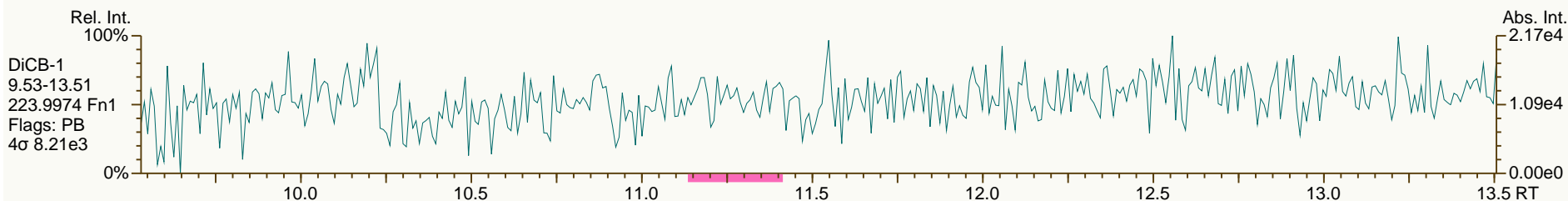
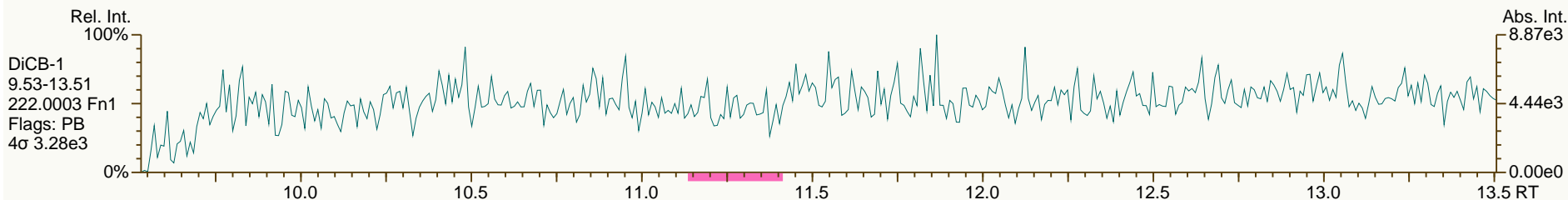
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SGS-AP ID: SBS\_140205\_PCB\_SA  
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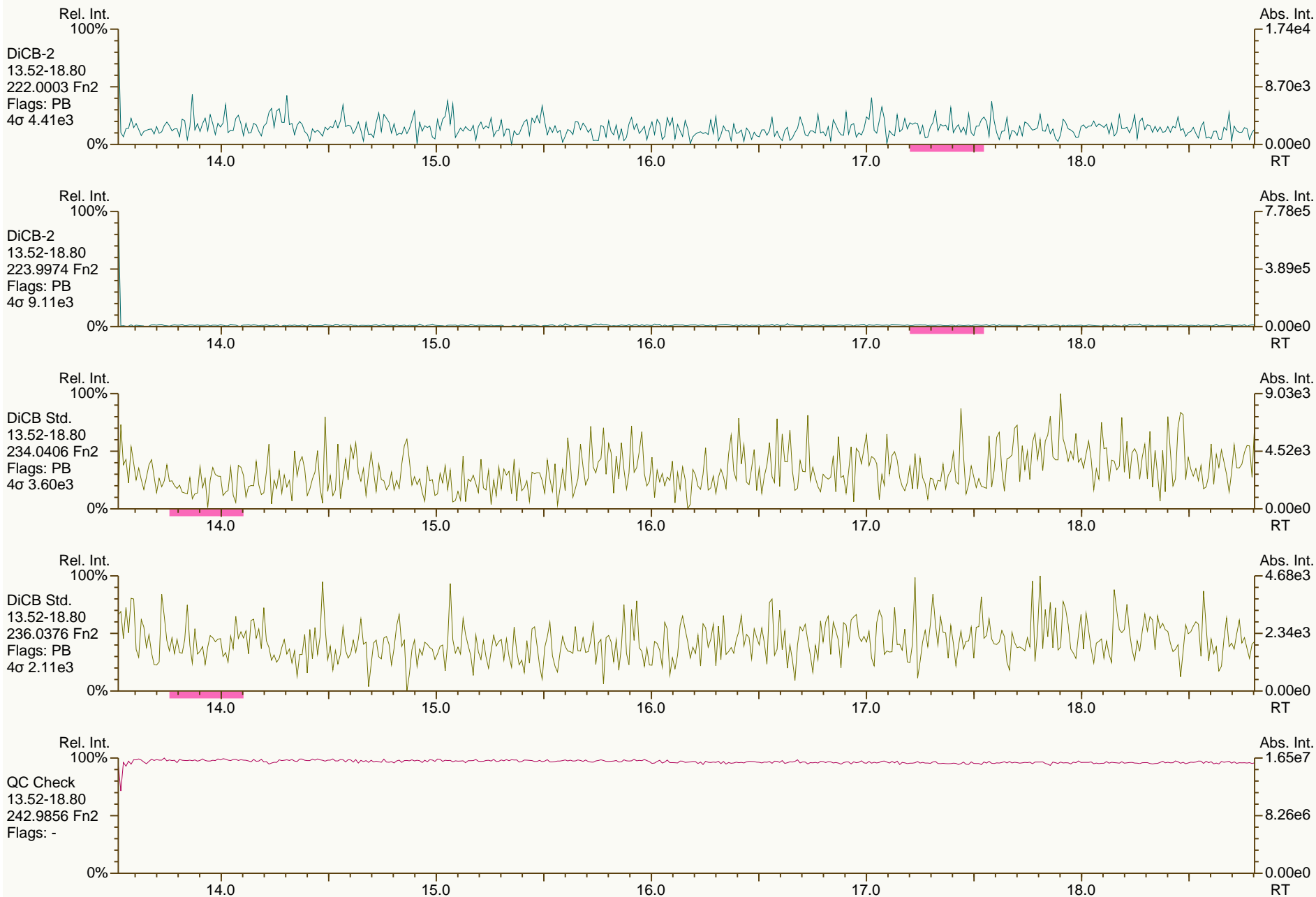
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SGS-AP ID: SBS\_140205\_PCB\_SA  
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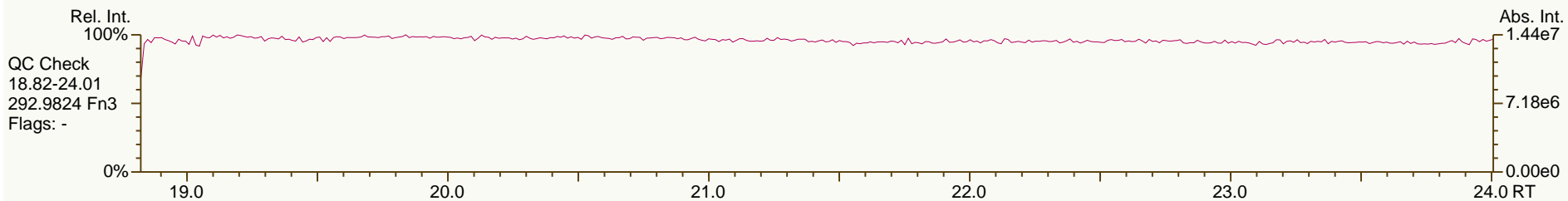
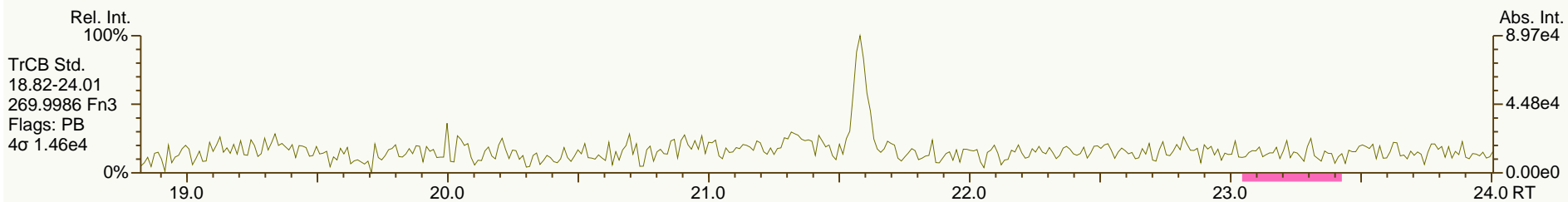
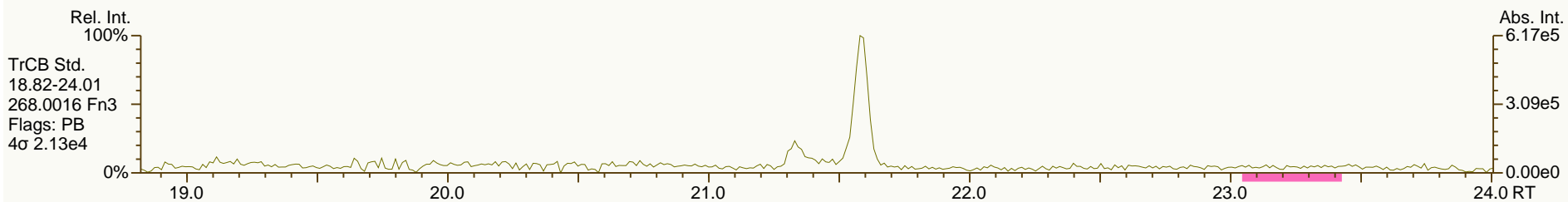
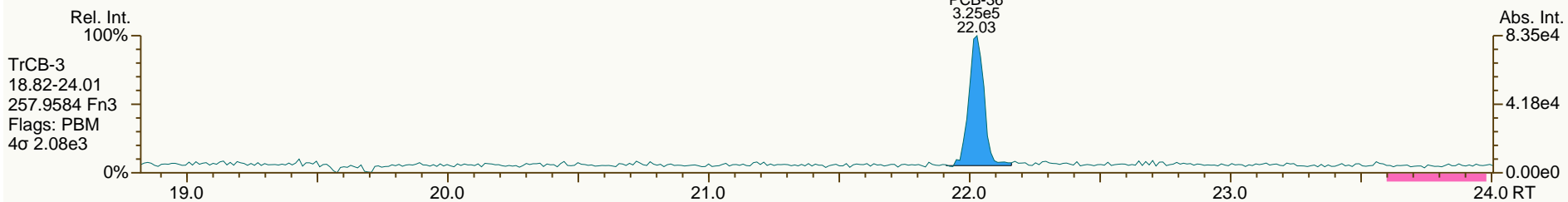
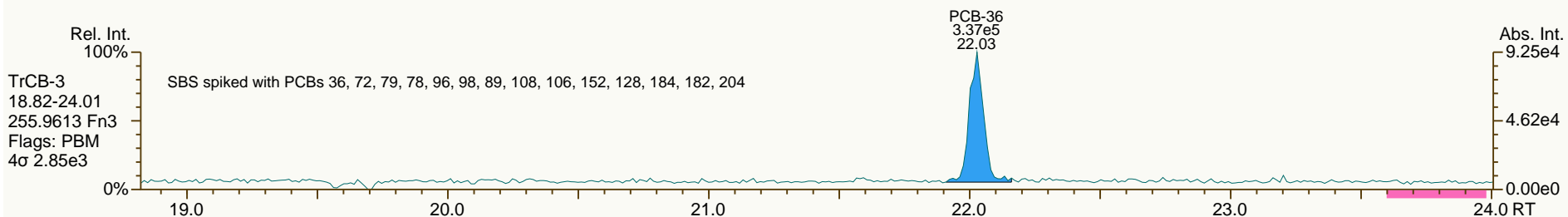
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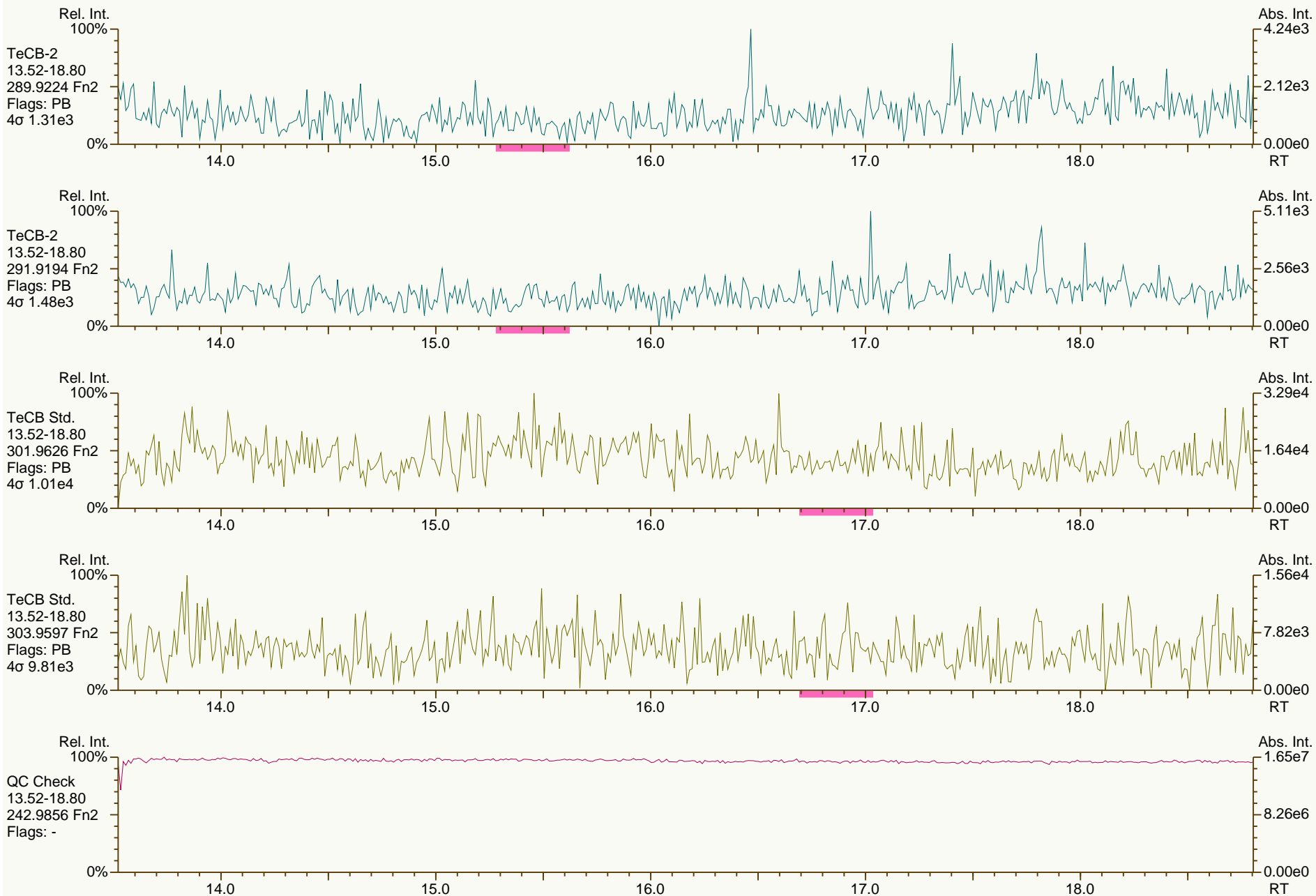
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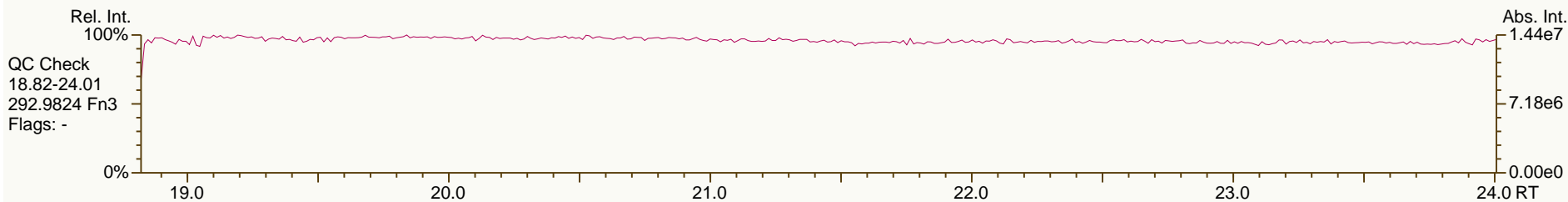
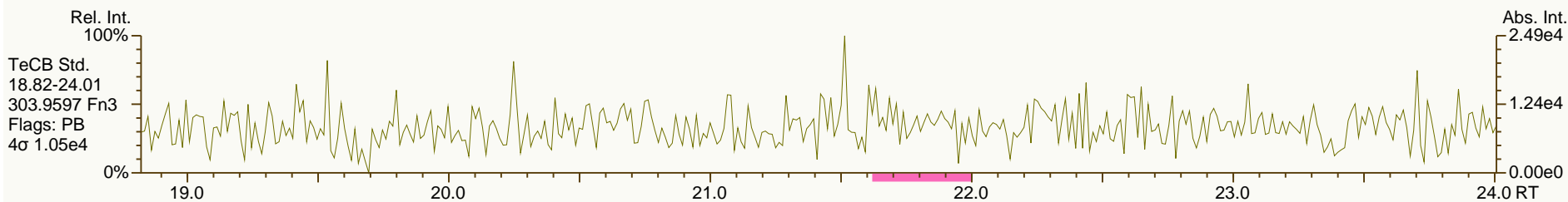
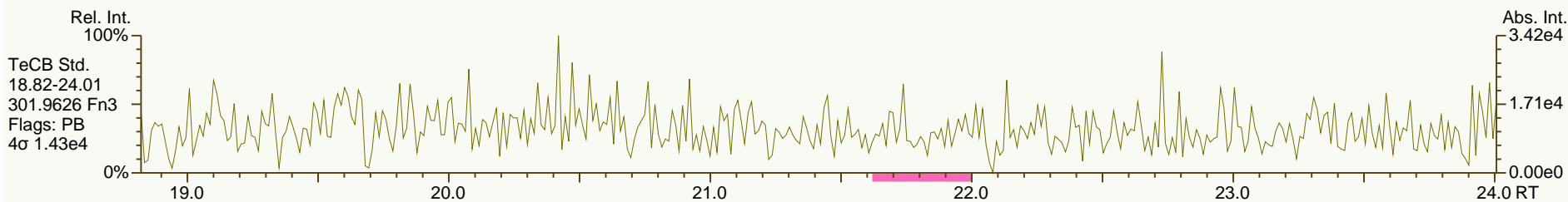
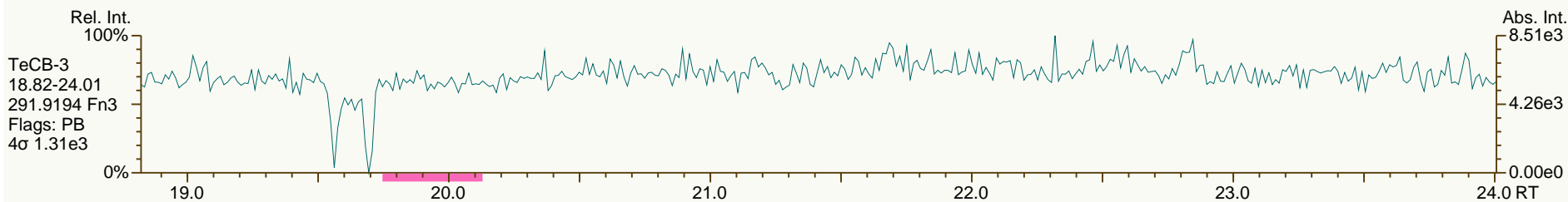
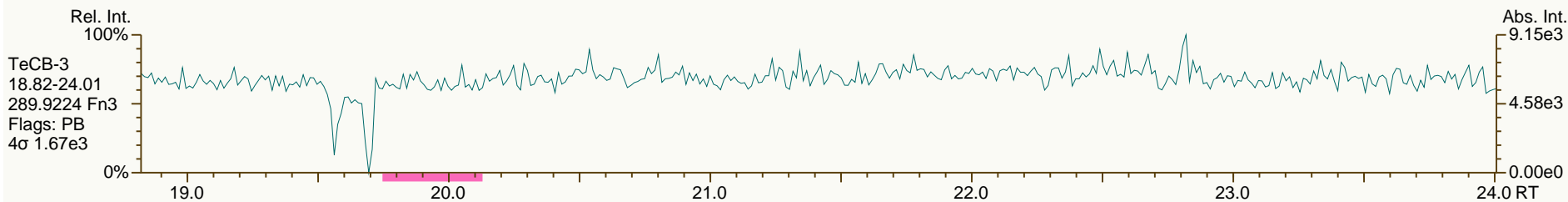




SGS-AP ID: SBS\_140205\_PCB\_SA  
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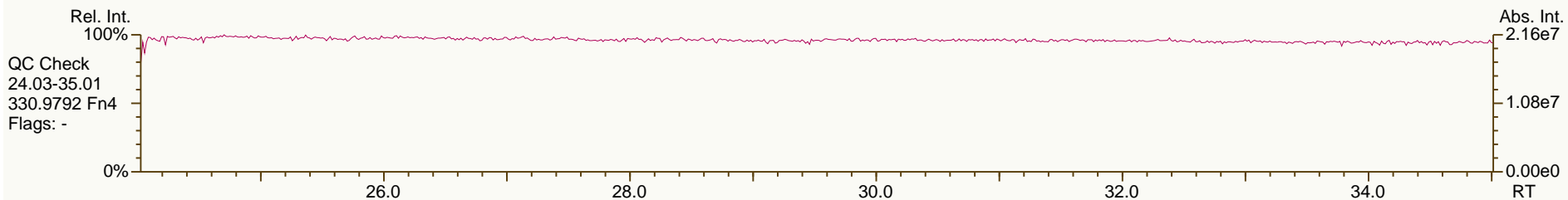
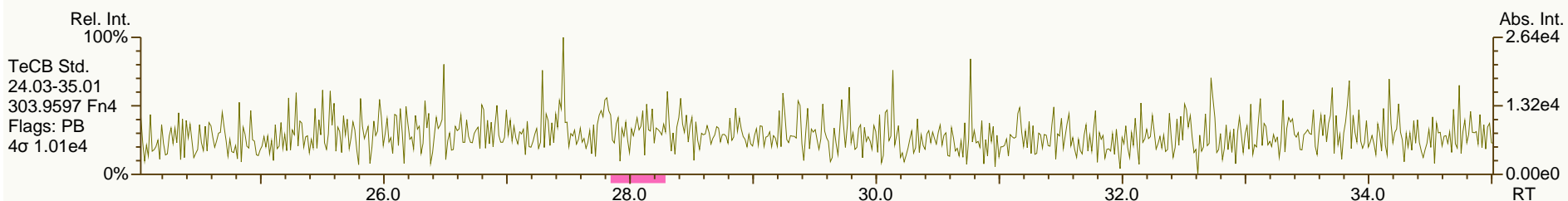
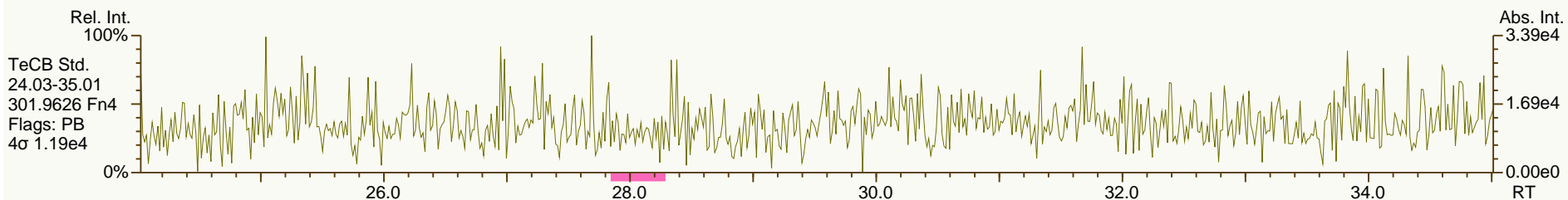
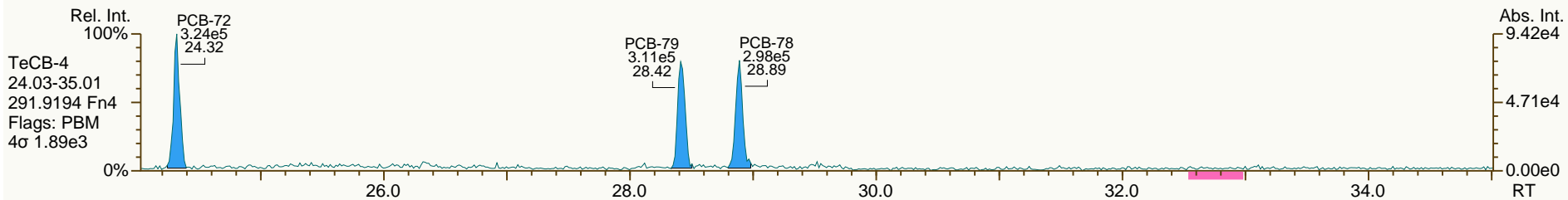
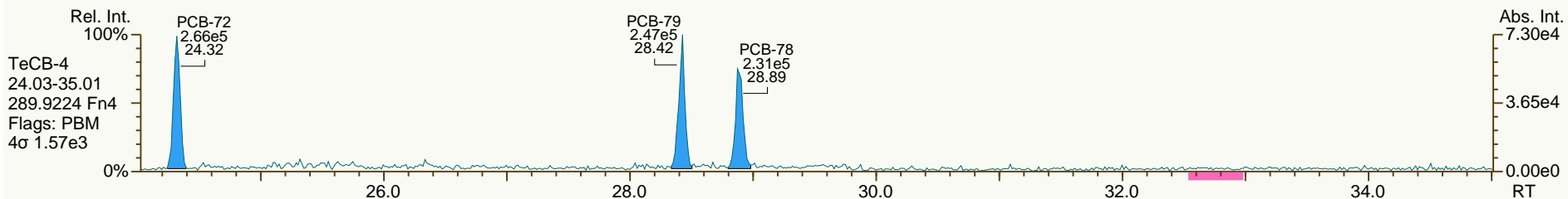
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SGS-AP ID: SBS\_140205\_PCB\_SA  
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SGS-AP ID: SBS\_140205\_PCB\_SA  
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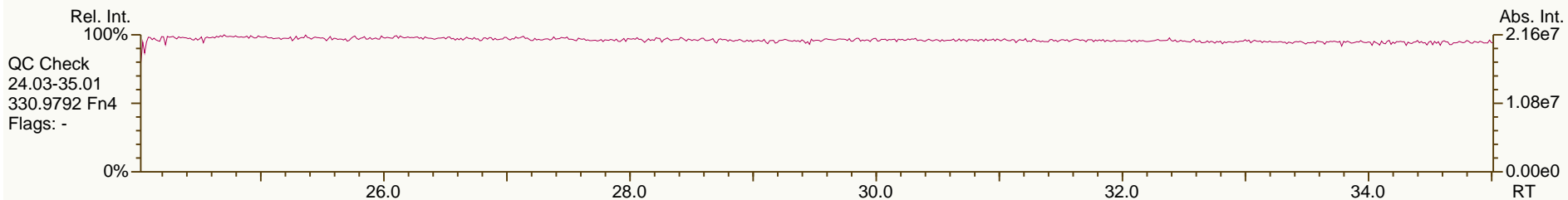
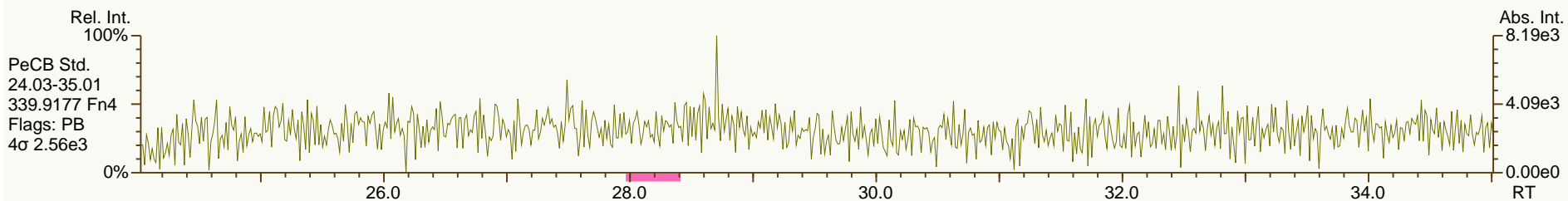
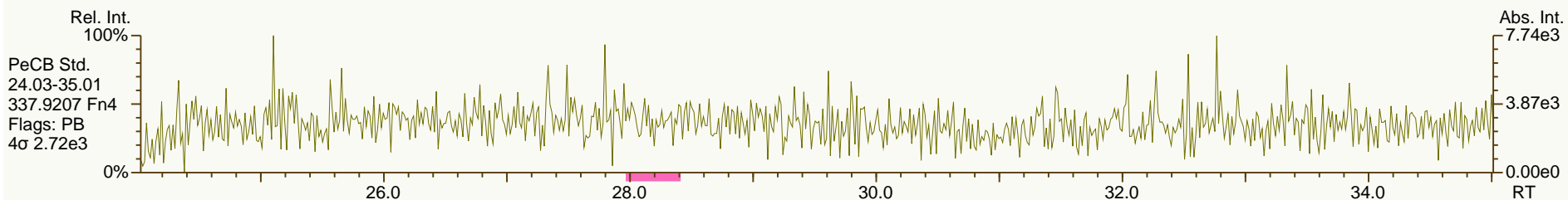
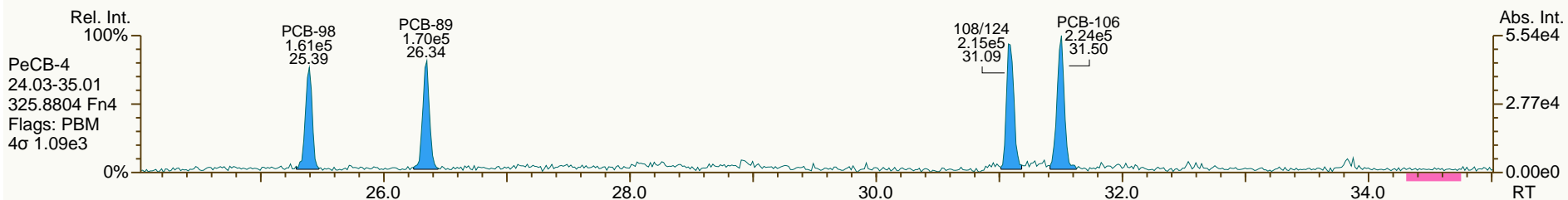
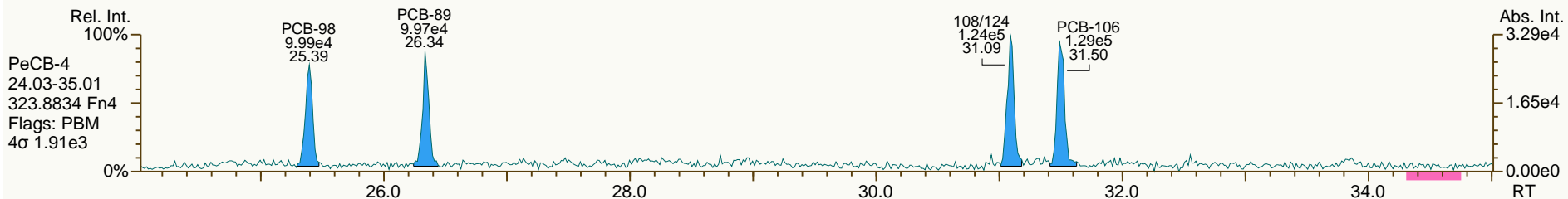
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SGS-AP ID: SBS\_140205\_PCB\_SA  
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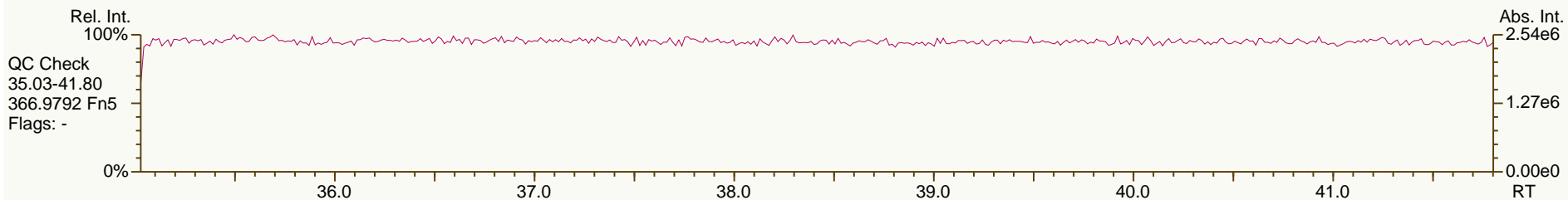
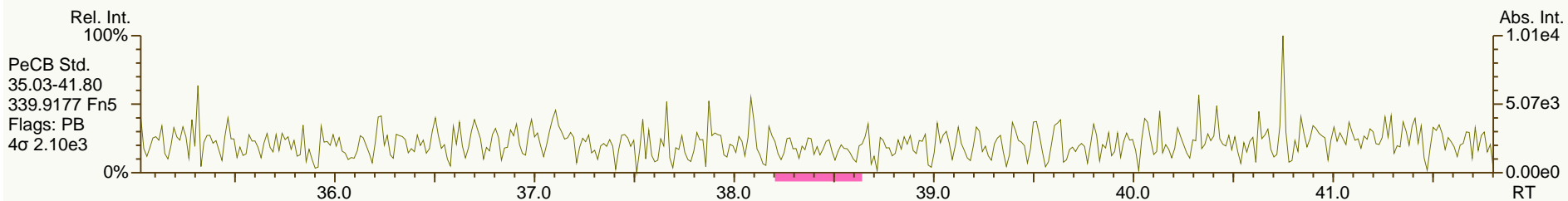
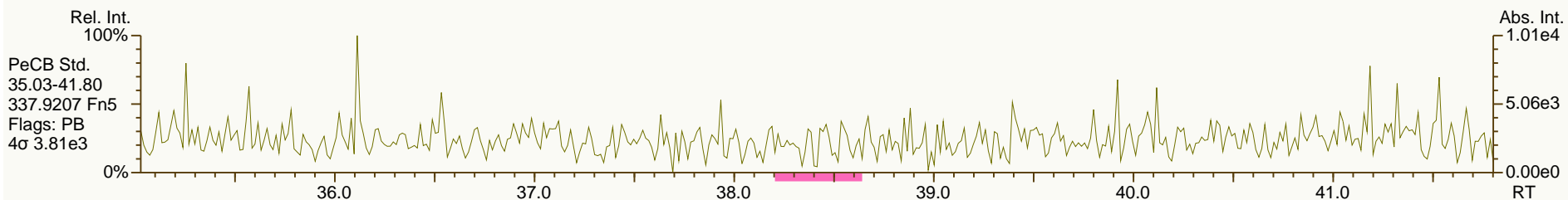
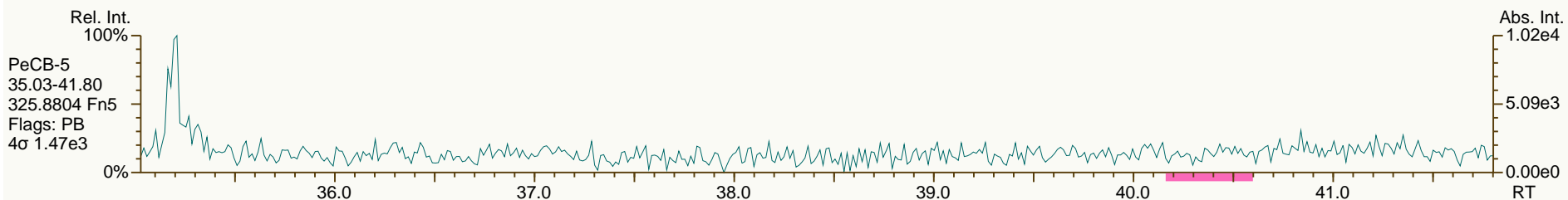
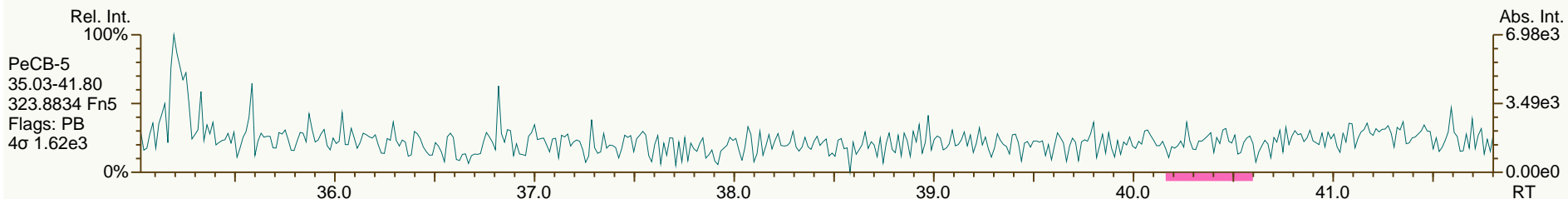
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SGS-AP ID: SBS\_140205\_PCB\_SA  
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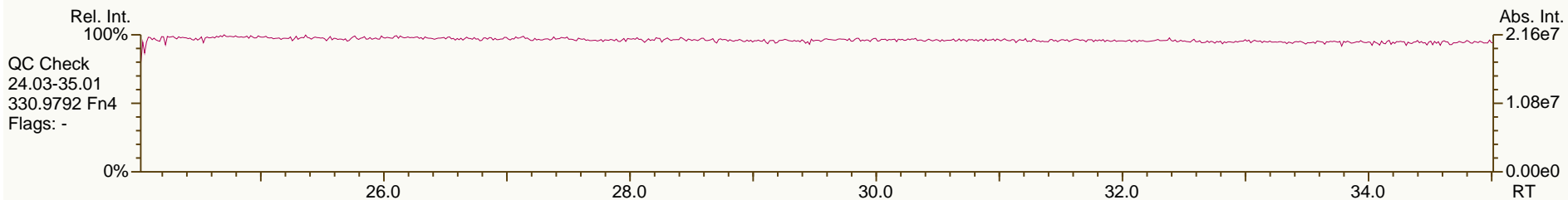
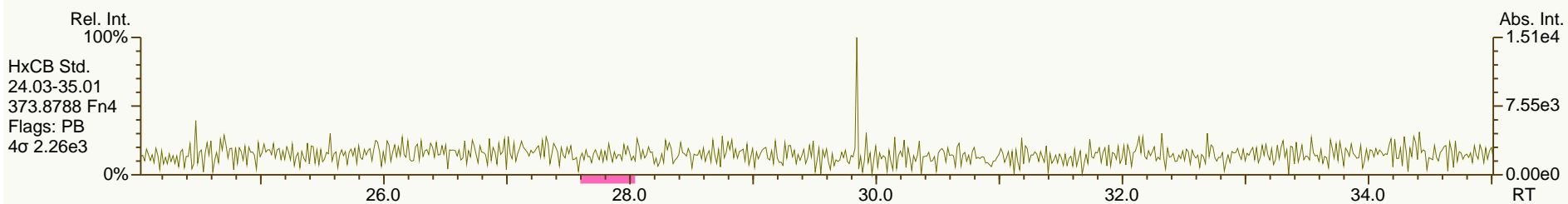
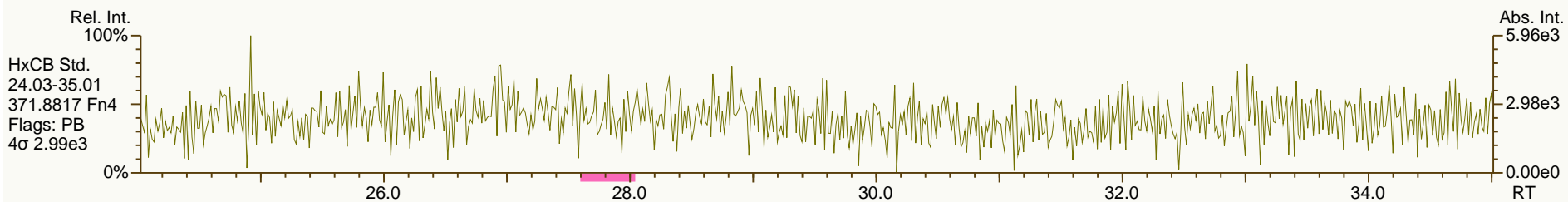
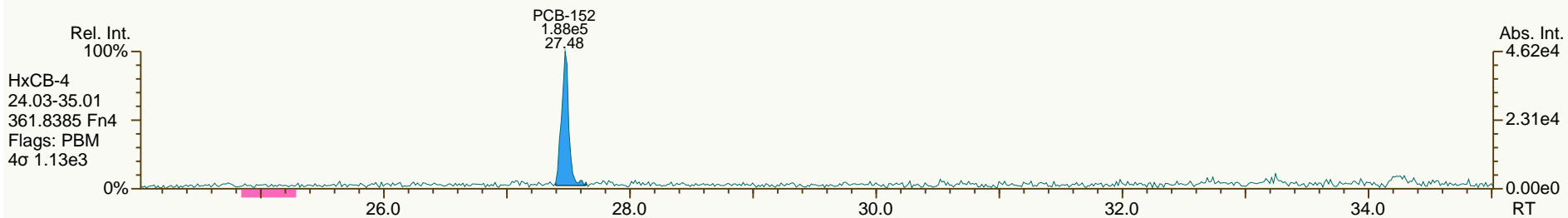
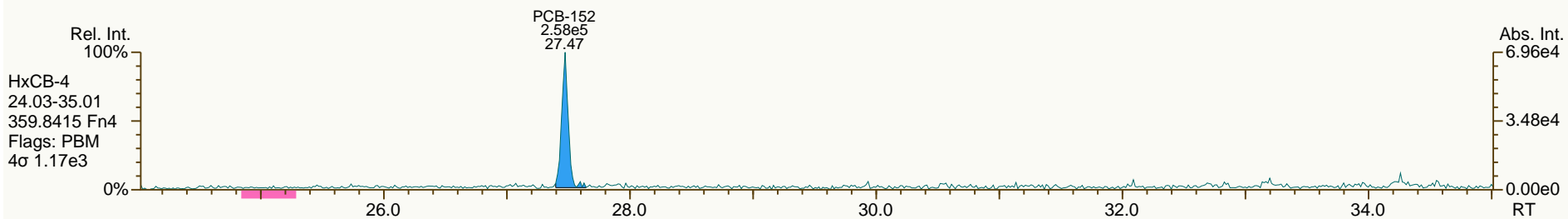
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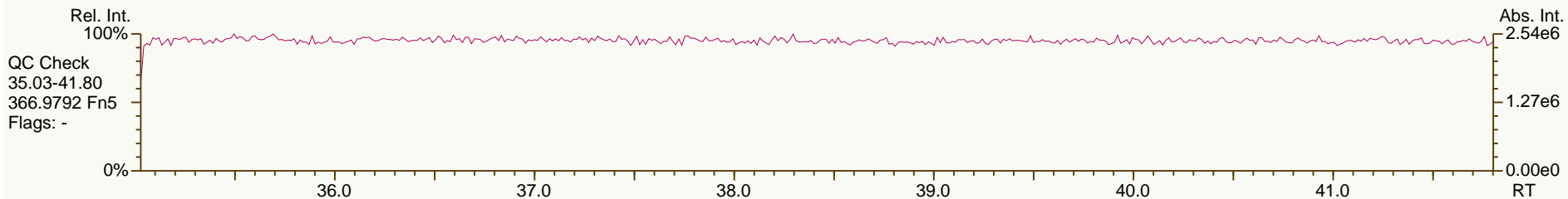
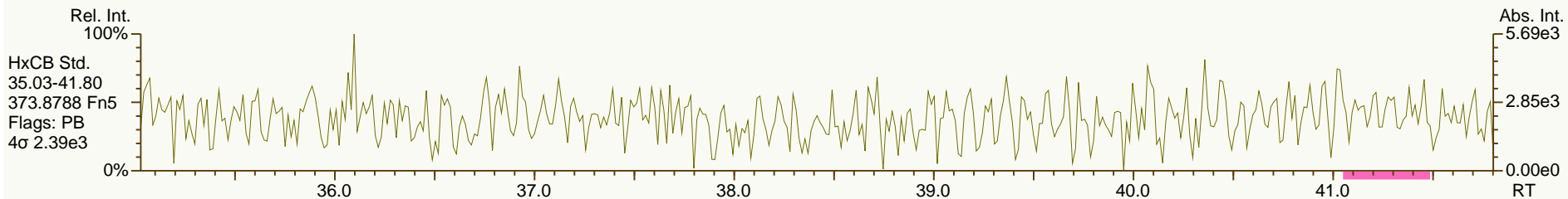
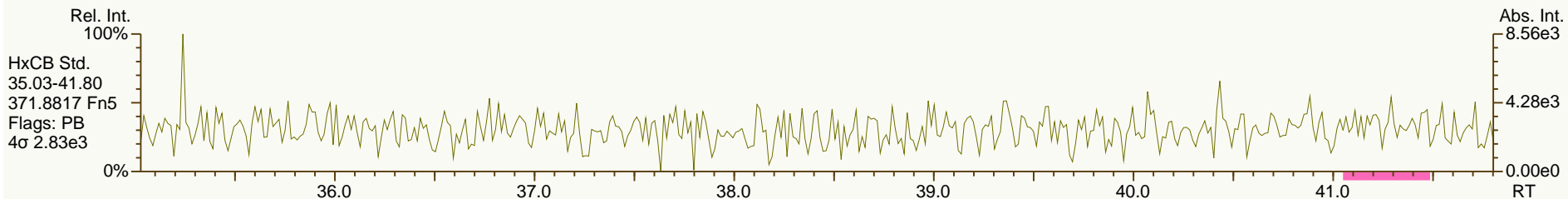
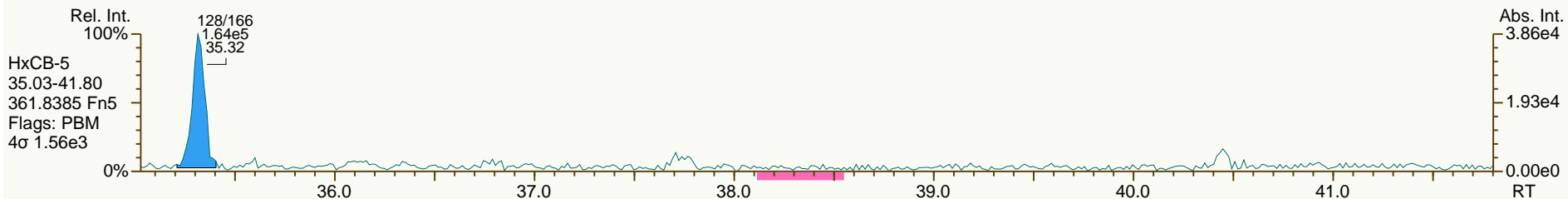
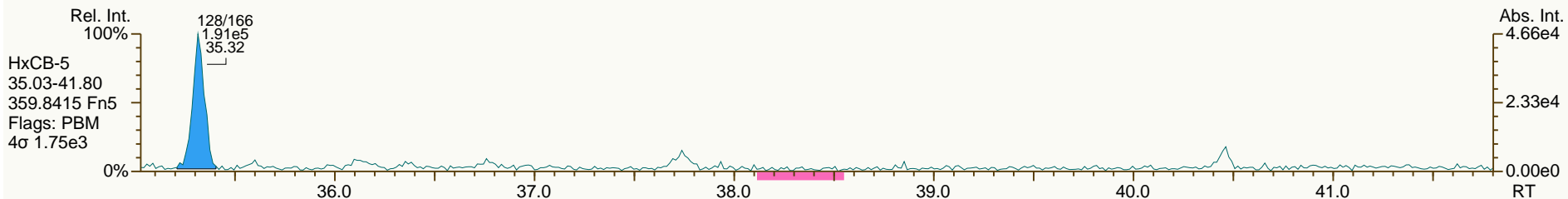
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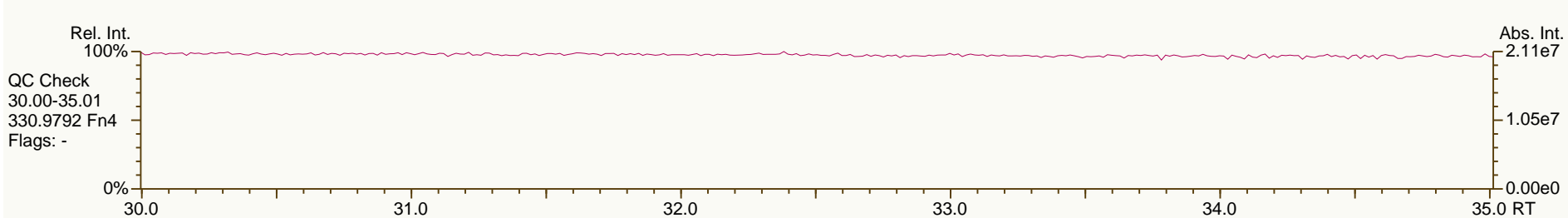
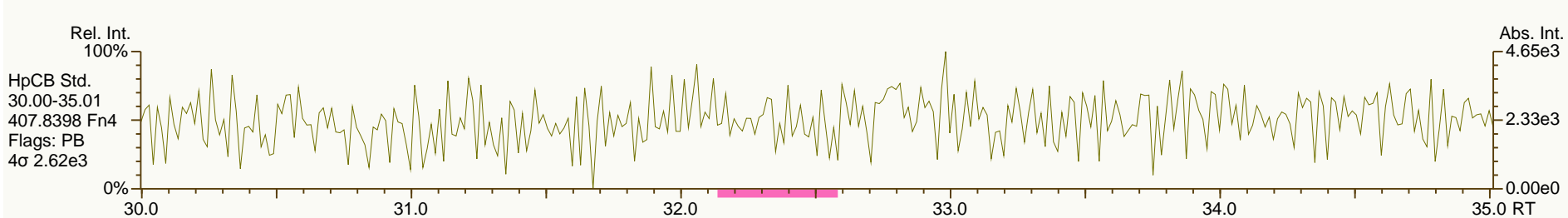
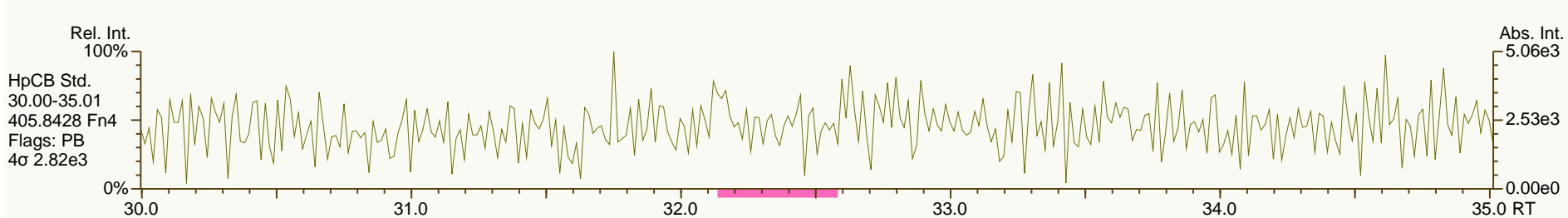
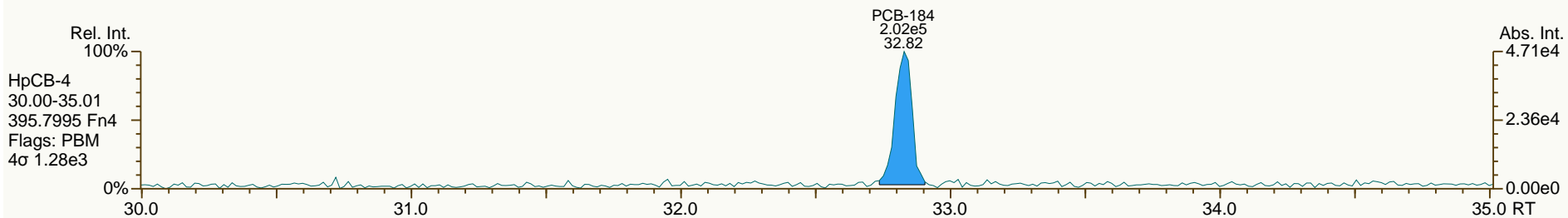
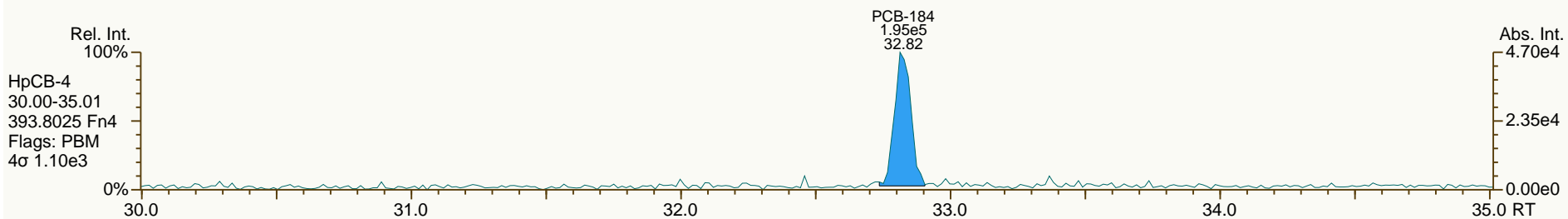
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SGS-AP ID: SBS\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

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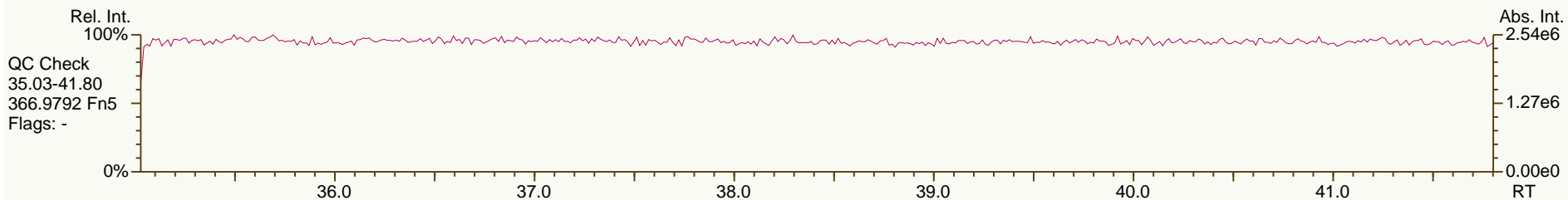
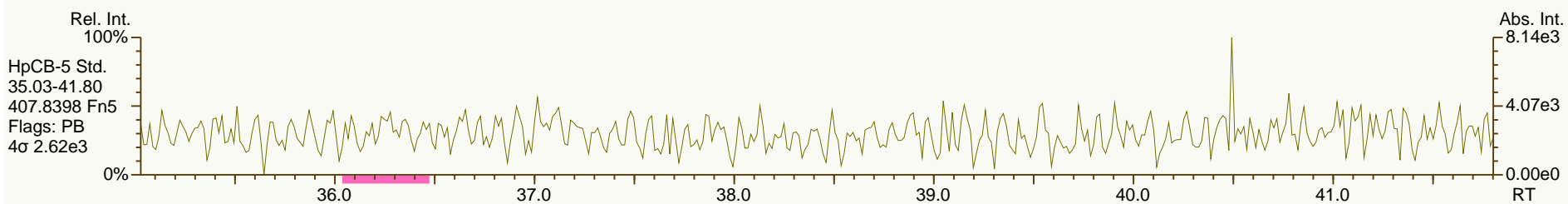
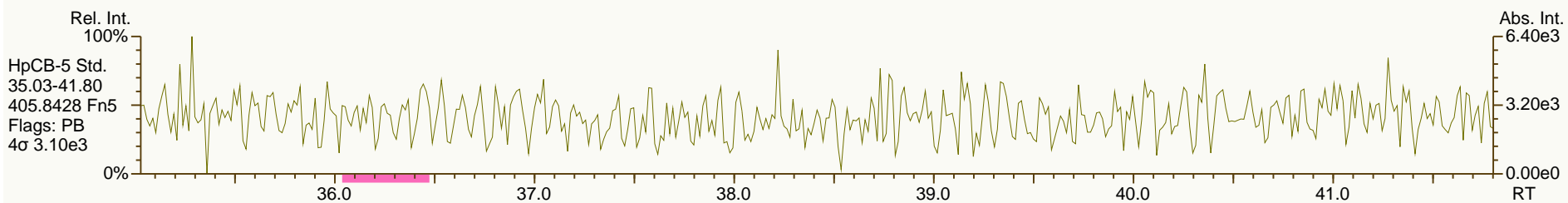
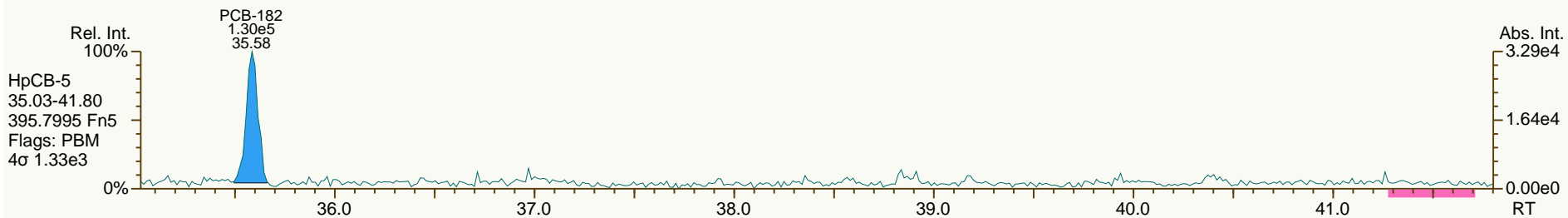
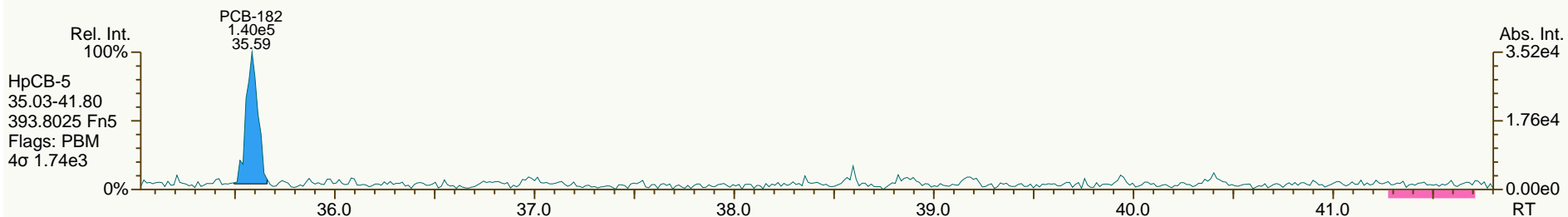




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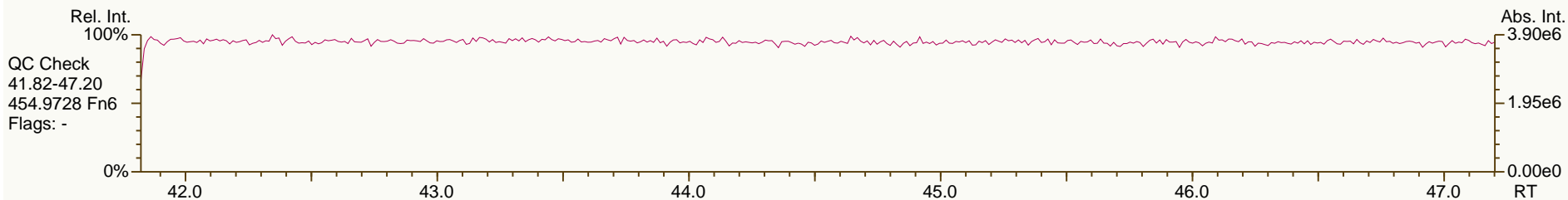
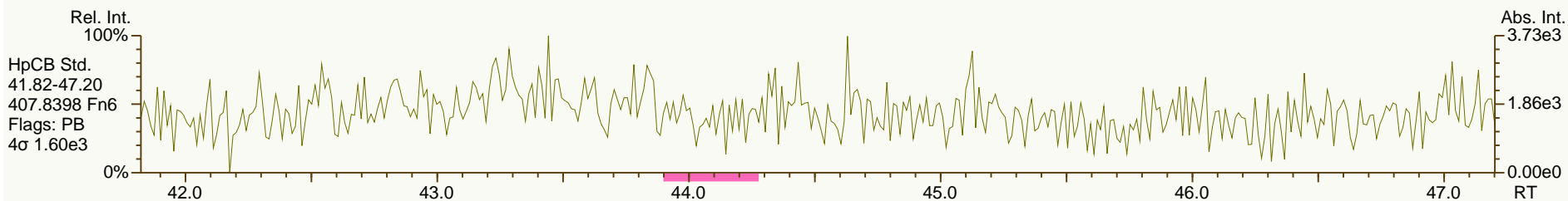
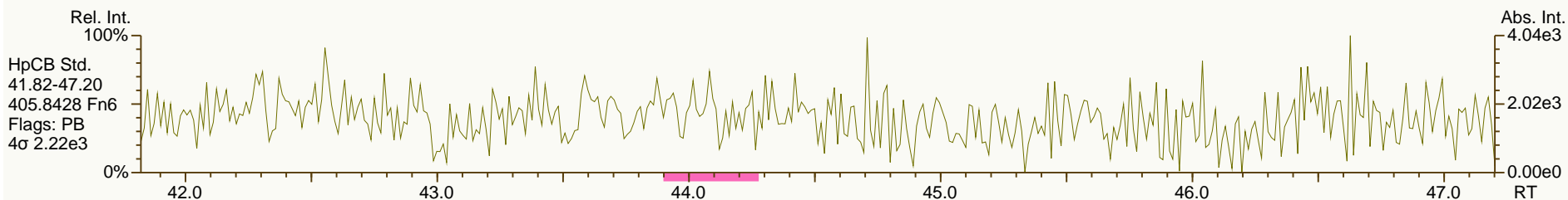
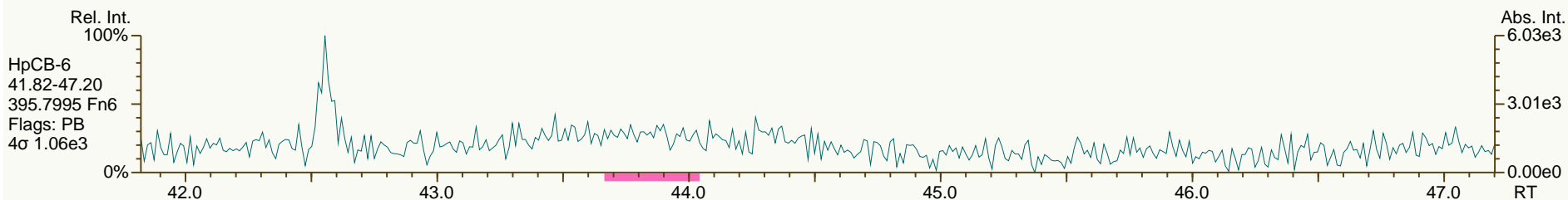
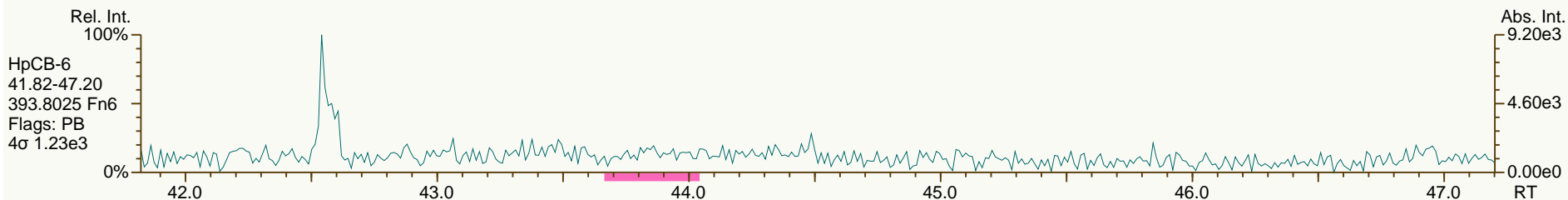
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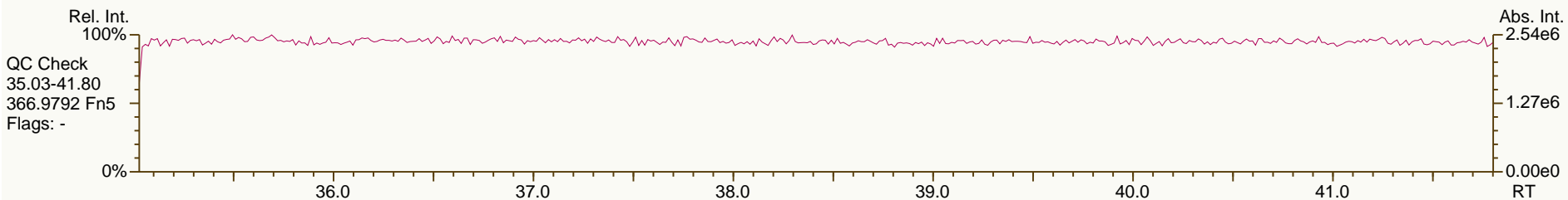
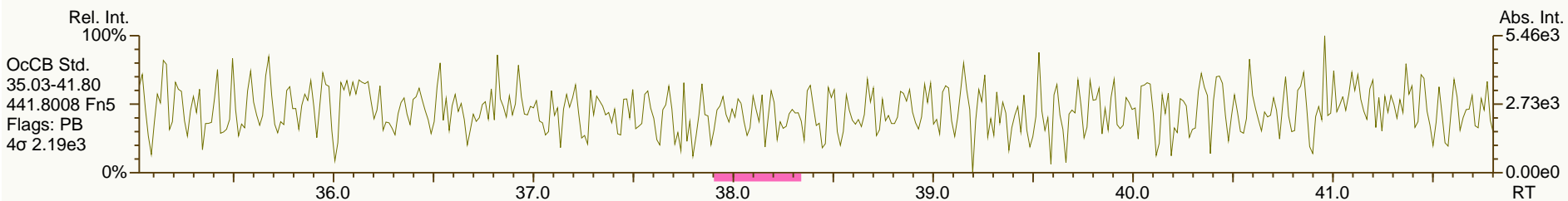
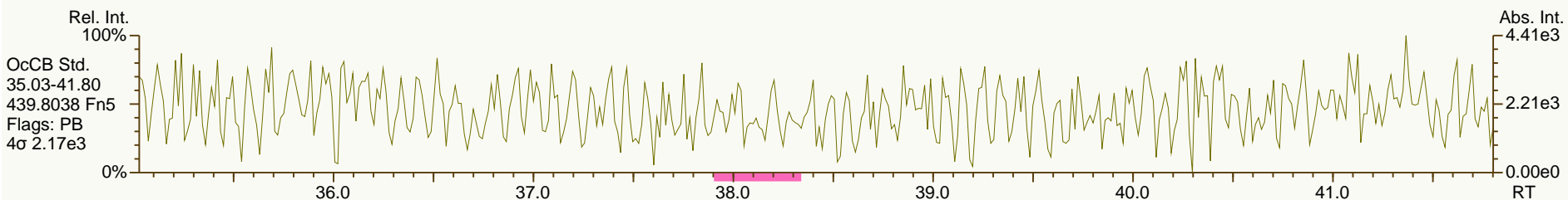
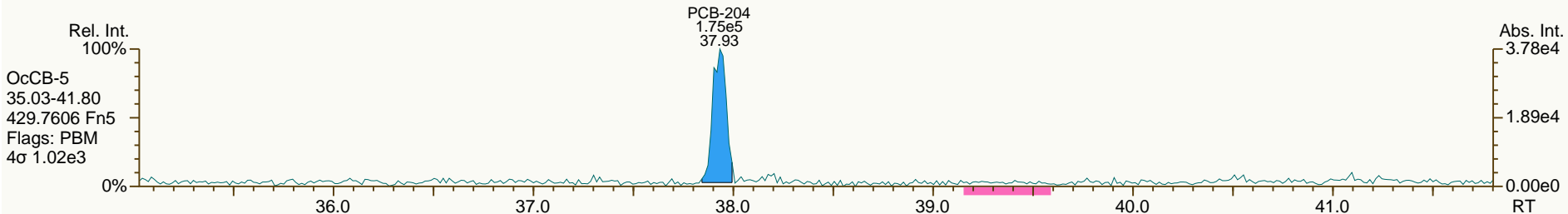
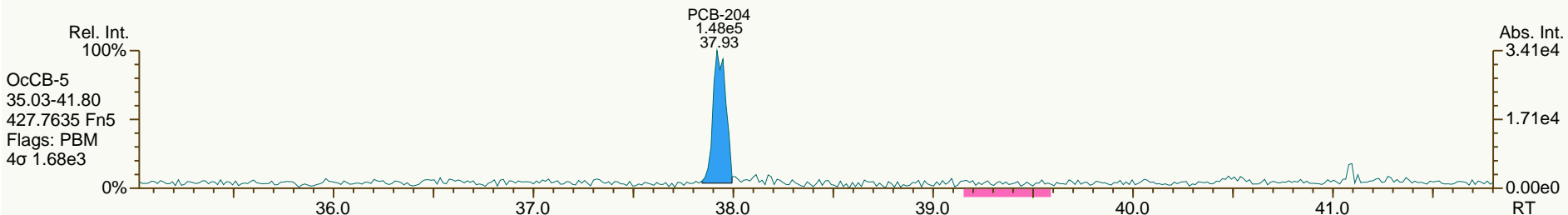
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SGS-AP ID: SBS\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

Acq: 05-Feb-2014 09:26:32  
 User: CTW Datafile: 140205S01



SGS-AP ID: SBS\_140205\_PCB\_SA  
Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1  
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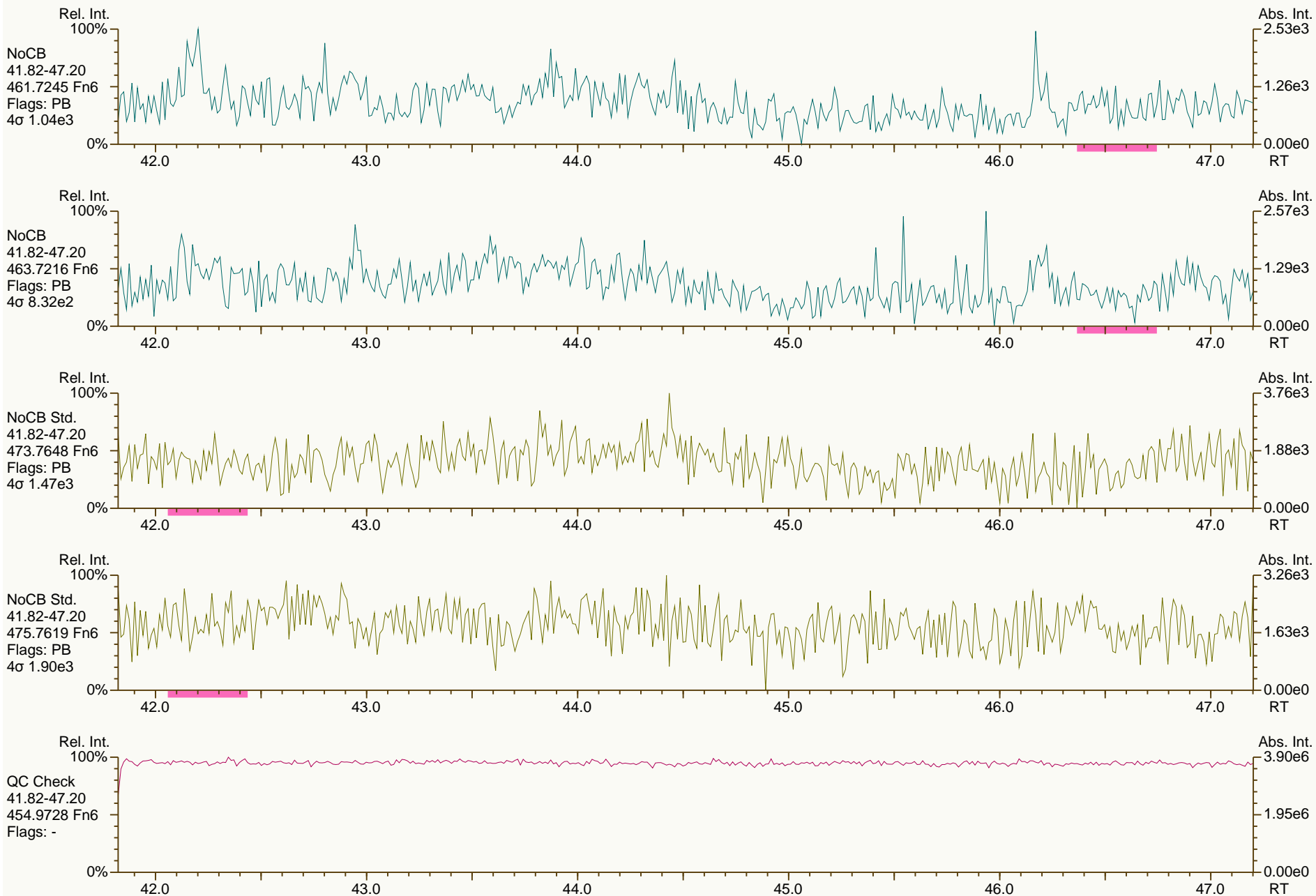
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SGS-AP ID: SBS\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

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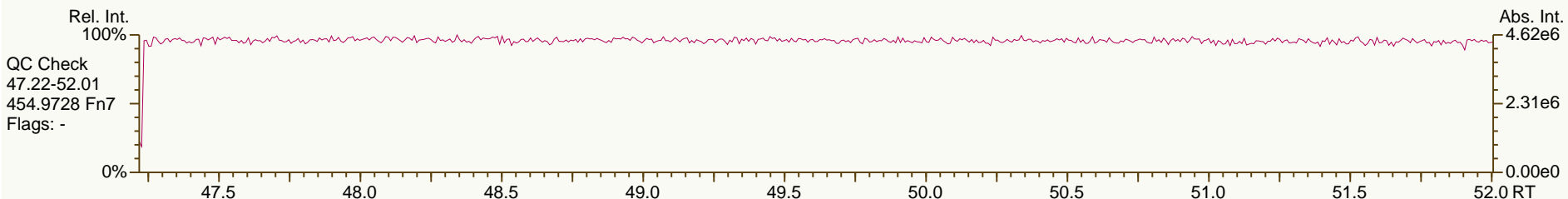
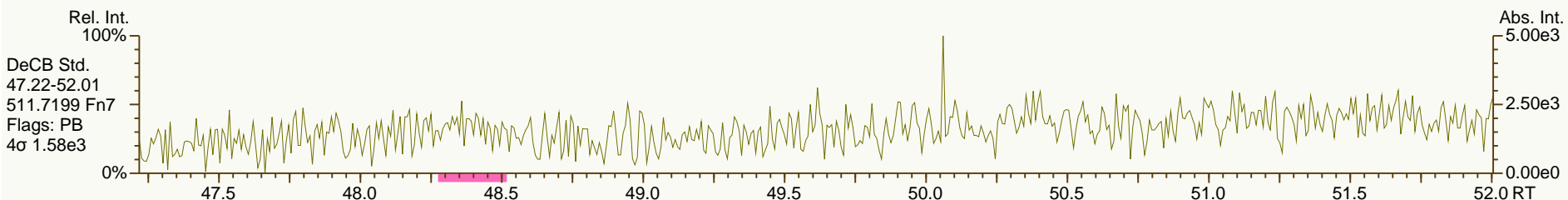
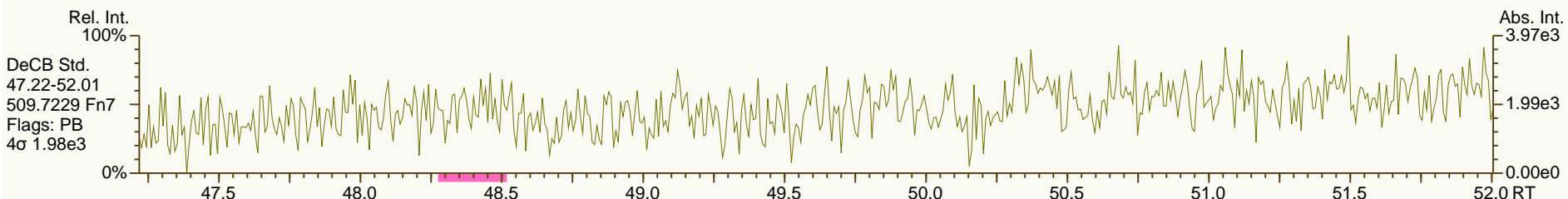
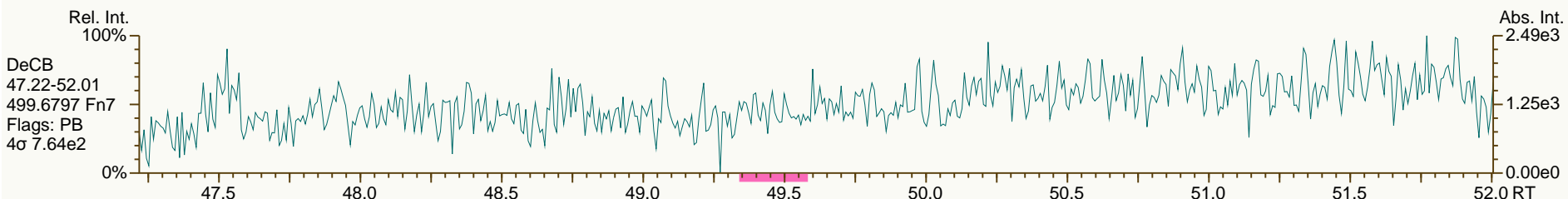
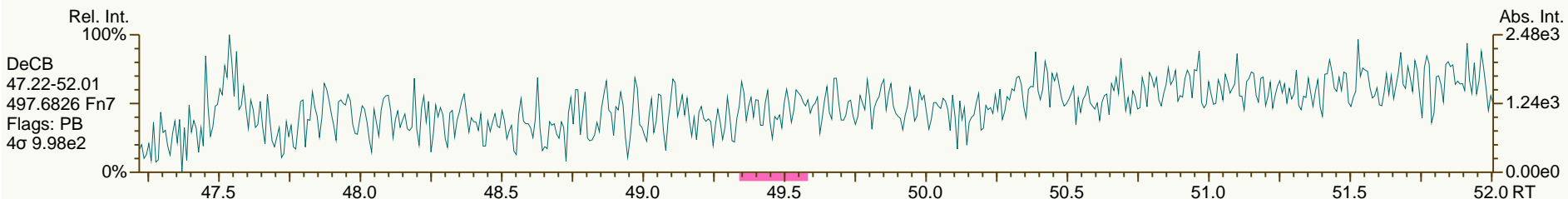
Acq: 05-Feb-2014 09:26:32  
 User: CTW Datafile: 140205S01



SGS-AP ID: SBS\_140205\_PCB\_SA  
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 12

Acq: 05-Feb-2014 09:26:32  
 User: CTW Datafile: 140205S01



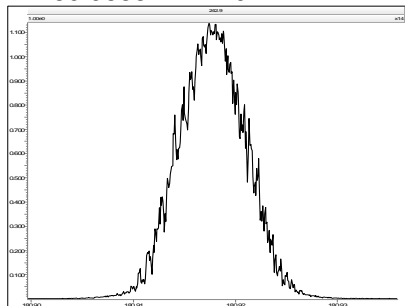
## Experiment Calibration Report

## MassLynx 4.1

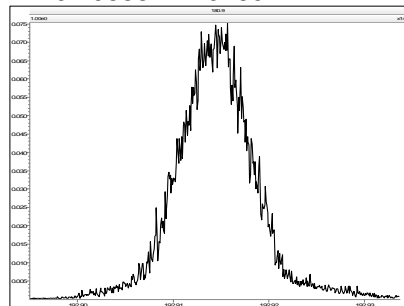
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, February 05, 2014 09:22:30 Eastern Standard Time

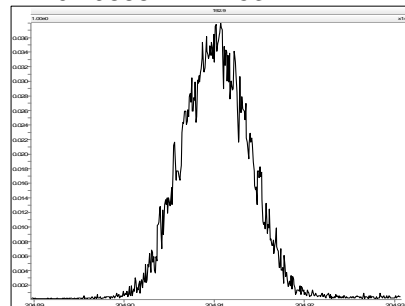
M 180.9888 R 12191



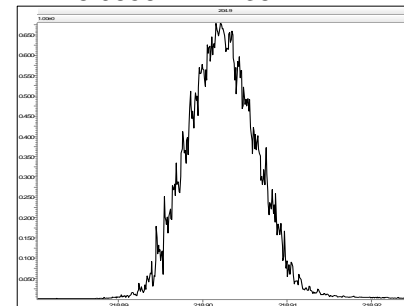
M 192.9888 R 10160



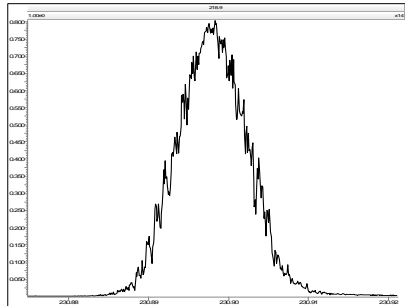
M 204.9888 R 12253



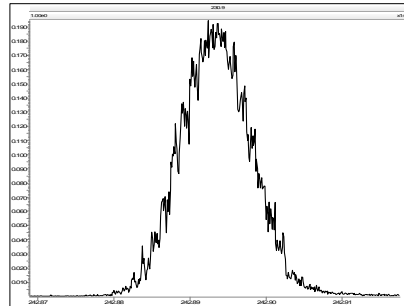
M 218.9856 R 12438



M 230.9856 R 11575



M 242.9856 R 11739



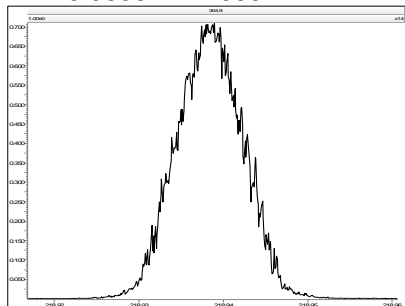
## Experiment Calibration Report

## MassLynx 4.1

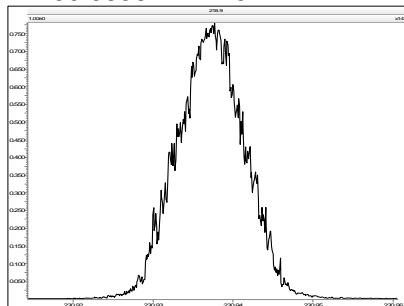
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Printed: Wednesday, February 05, 2014 09:22:58 Eastern Standard Time

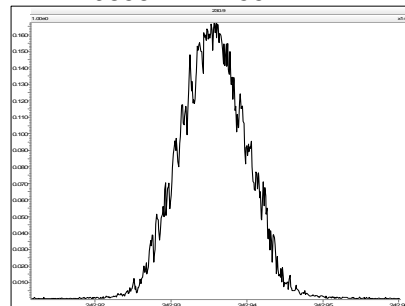
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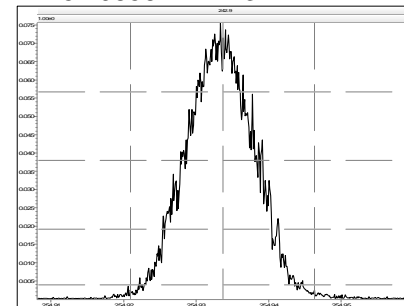
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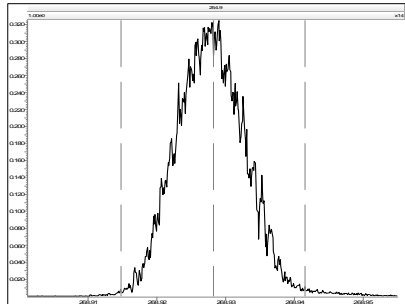
M 242.9856 R 12755



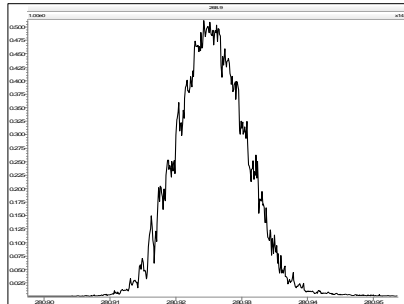
M 254.9856 R 12137



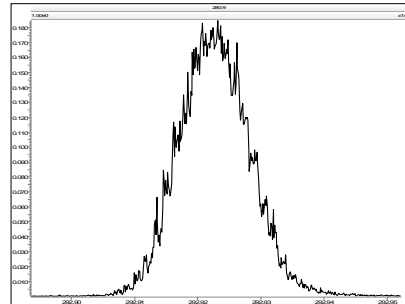
M 268.9824 R 12433



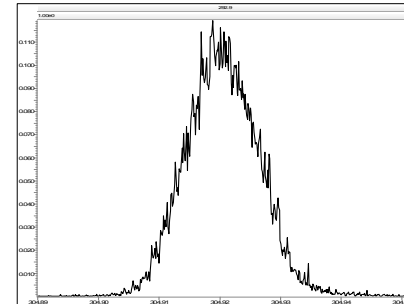
M 280.9824 R 12370



M 292.9824 R 11419



M 304.9824 R 11206





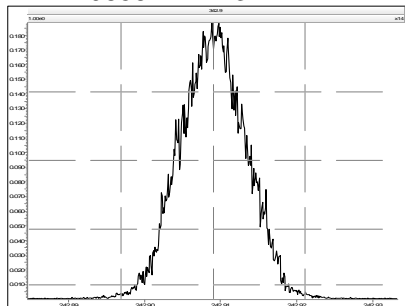
## Experiment Calibration Report

## MassLynx 4.1

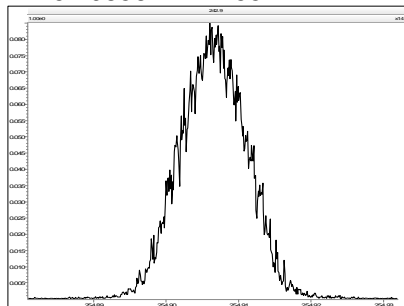
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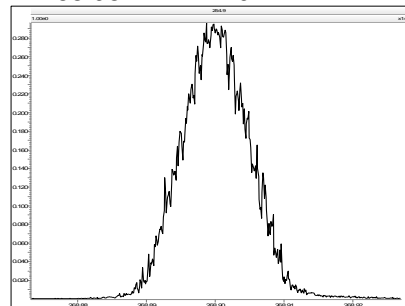
M 242.9856 R 12437



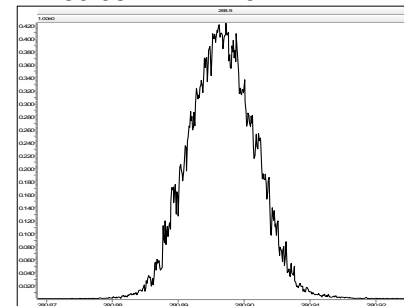
M 254.9856 R 12255



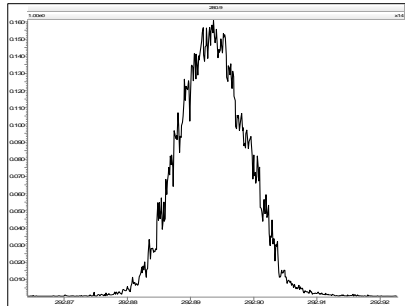
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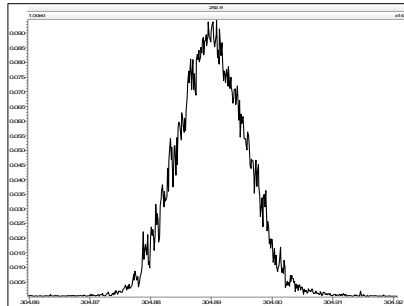
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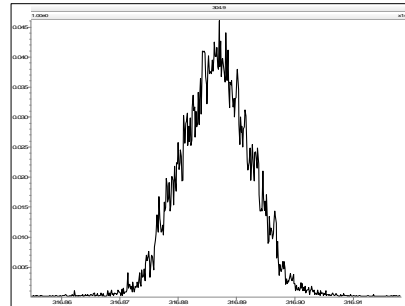
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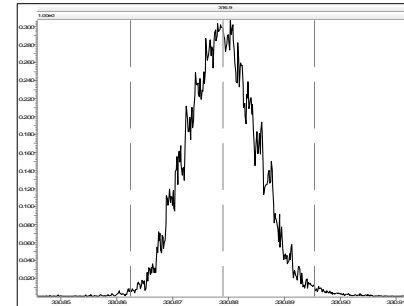
M 304.9824 R 12627



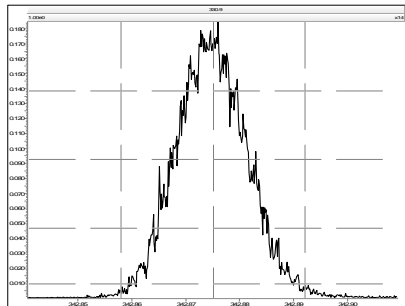
M 316.9824 R 12017



M 330.9792 R 12016



M 342.9792 R 11792



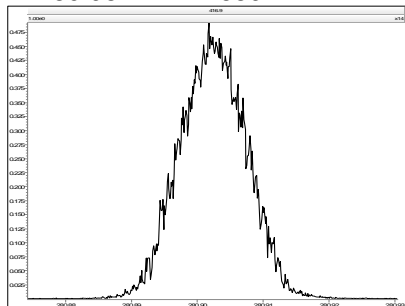
## Experiment Calibration Report

## MassLynx 4.1

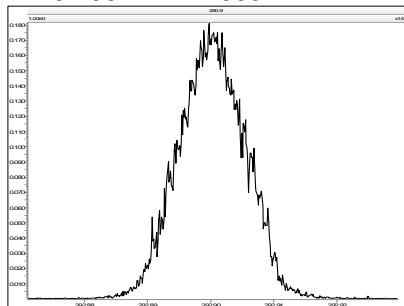
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Printed: Wednesday, February 05, 2014 09:24:01 Eastern Standard Time

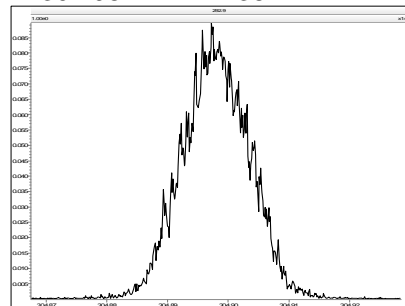
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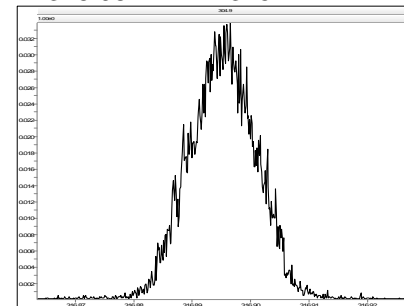
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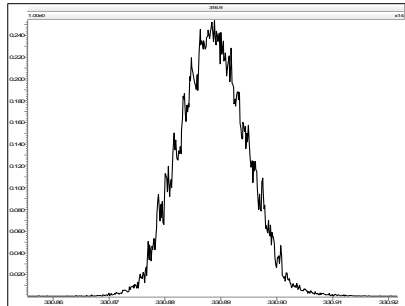
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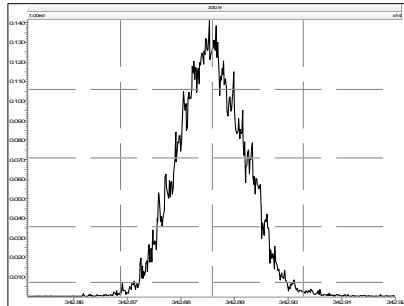
M 316.9824 R 12375



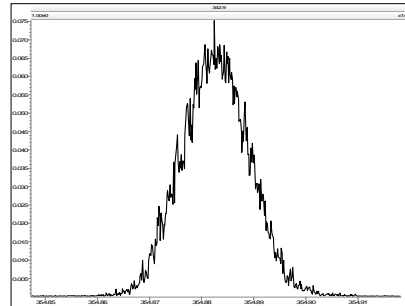
M 330.9792 R 12752



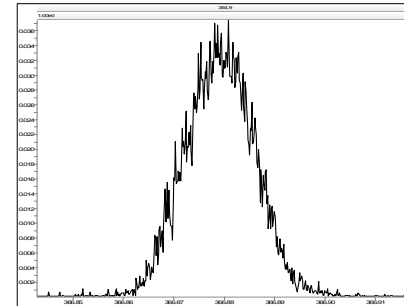
M 342.9792 R 12376



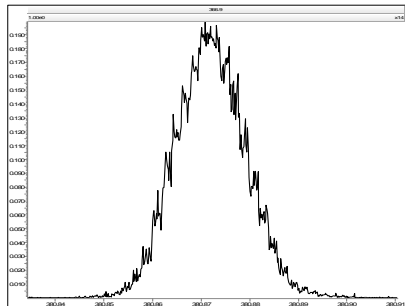
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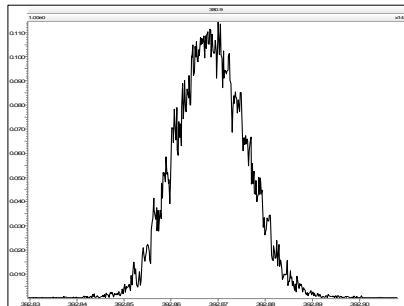
M 366.9792 R 12191



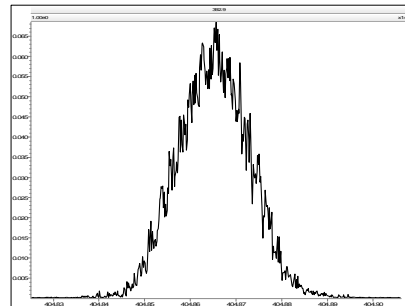
M 380.9760 R 11628



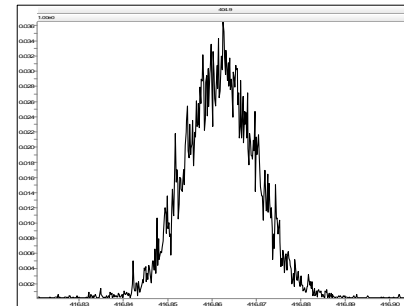
M 392.9760 R 12379



M 404.9760 R 11416



M 416.9760 R 11415



## Experiment Calibration Report

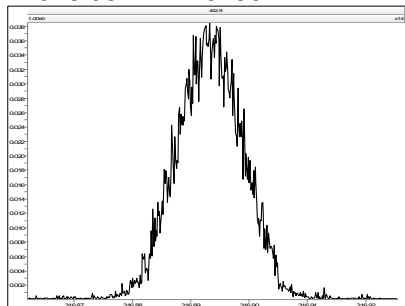
## MassLynx 4.1

Page 1 of 1

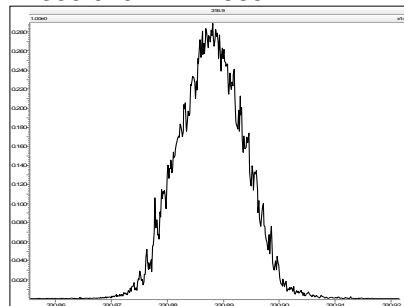
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Printed: Wednesday, February 05, 2014 09:24:30 Eastern Standard Time

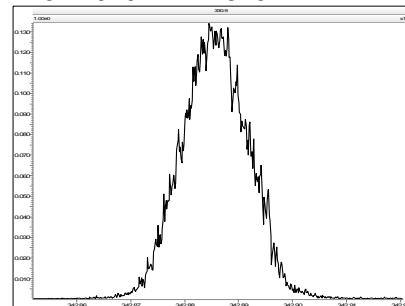
M 316.9824 R 13296



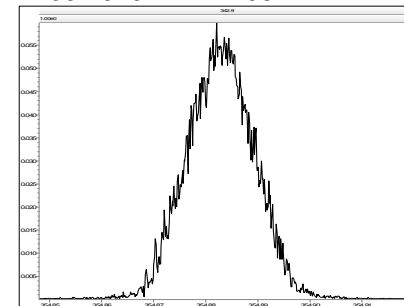
M 330.9792 R 12565



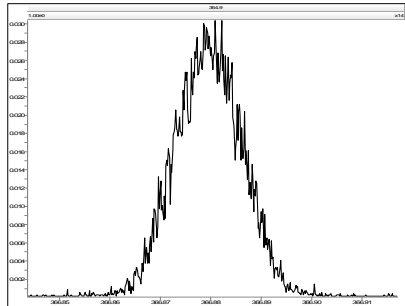
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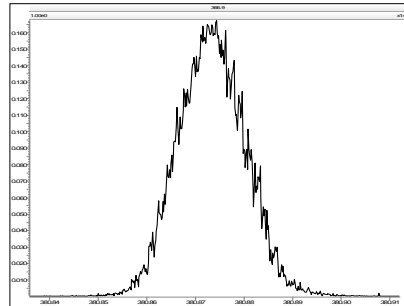
M 354.9792 R 12498



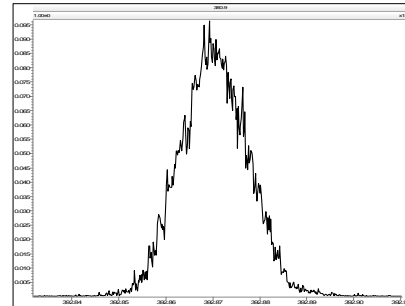
M 366.9792 R 12251



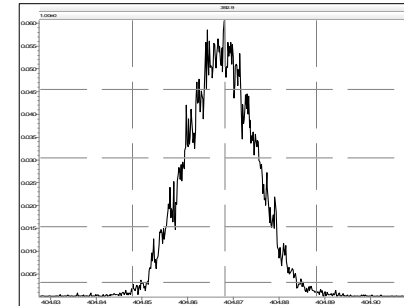
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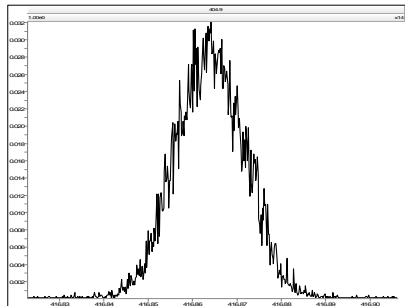
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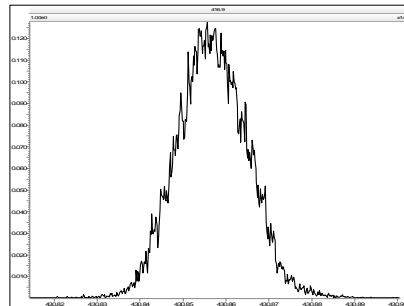
M 404.9760 R 12256



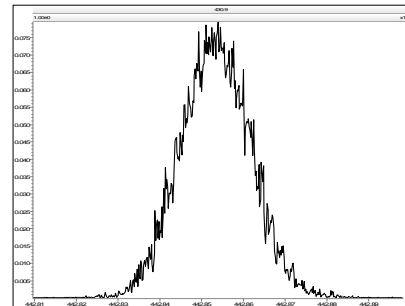
M 416.9760 R 12077



M 430.9728 R 11572



M 442.9728 R 11849



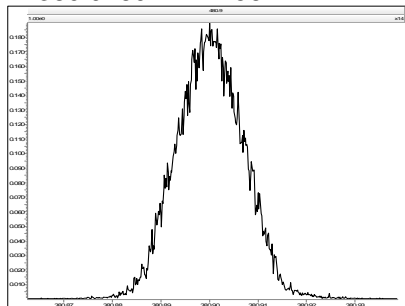
## Experiment Calibration Report

## MassLynx 4.1

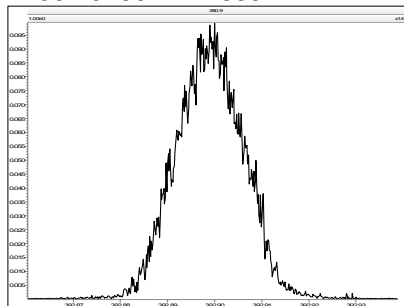
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Printed: Wednesday, February 05, 2014 09:24:55 Eastern Standard Time

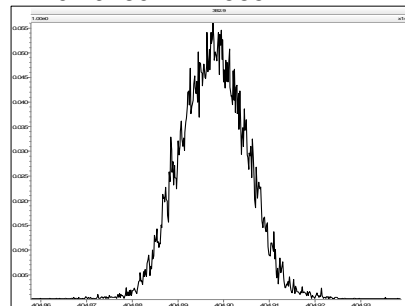
M 380.9760 R 12256



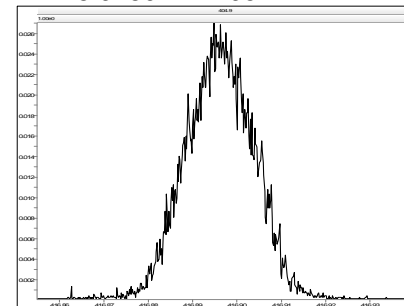
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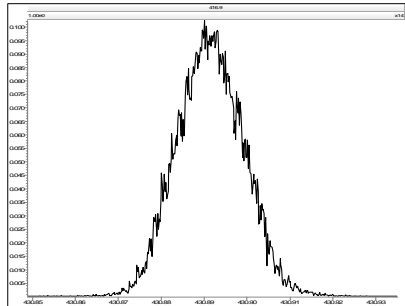
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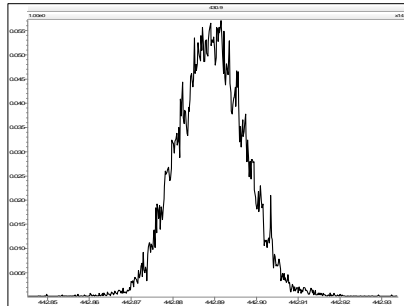
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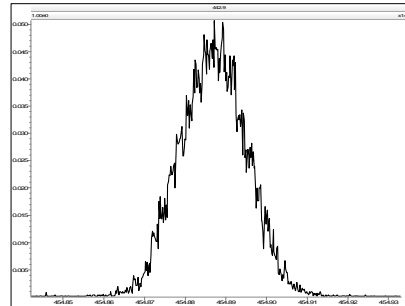
M 430.9728 R 12625



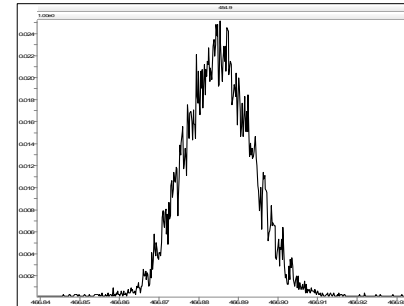
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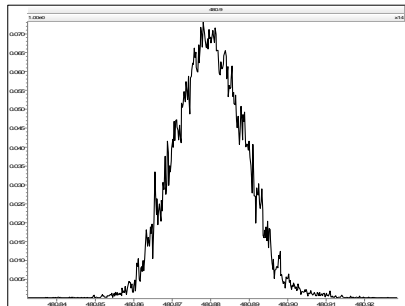
M 454.9728 R 12315



M 466.9728 R 13296



M 480.9696 R 12378



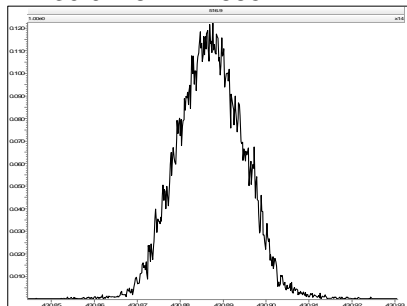
## Experiment Calibration Report

## MassLynx 4.1

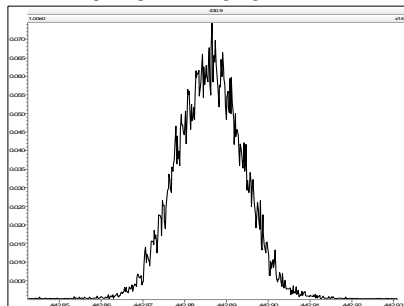
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Printed: Wednesday, February 05, 2014 09:25:16 Eastern Standard Time

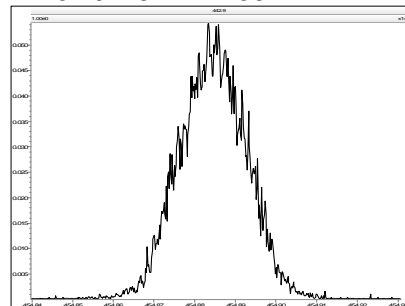
M 430.9728 R 12885



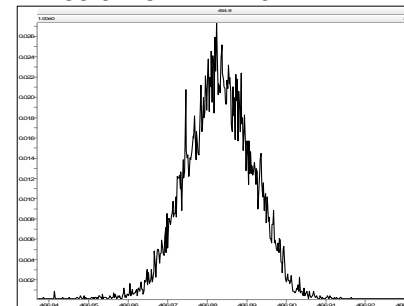
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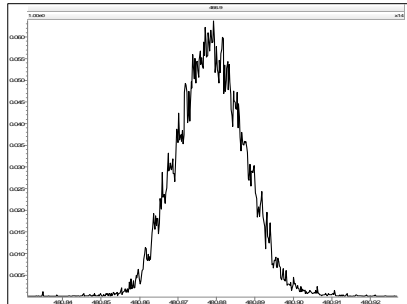
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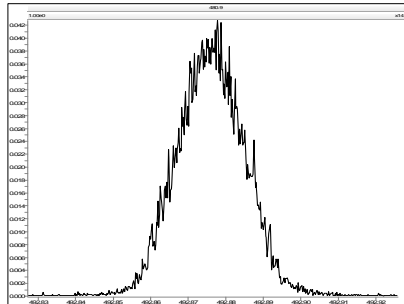
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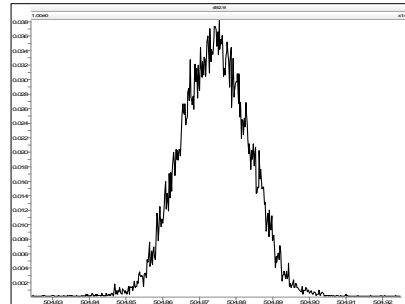
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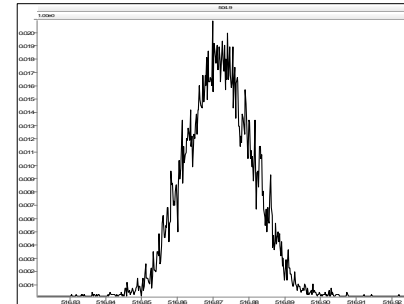
M 492.9696 R 11905



M 504.9696 R 12689



M 516.9697 R 12752



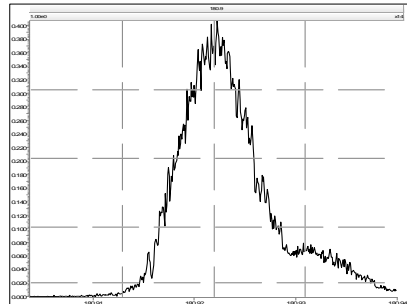
## Resolution Check Report

MassLynx 4.1

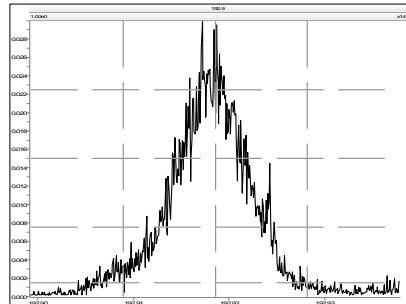
Page 1 of 6

Printed: Wednesday, February 05, 2014 16:14:54 Eastern Standard Time

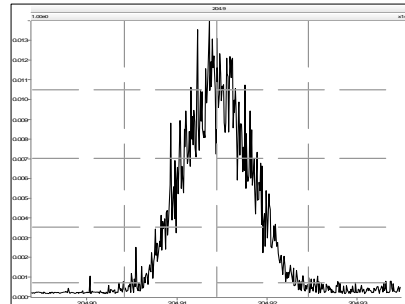
M 180.9888 R 7938



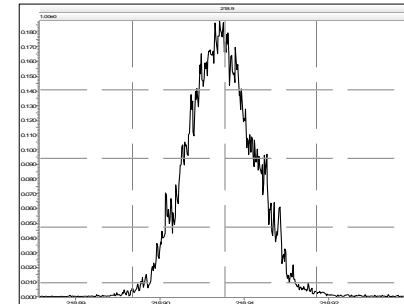
M 192.9888 R 10536



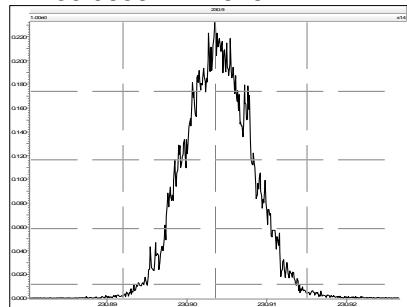
M 204.9888 R 12311



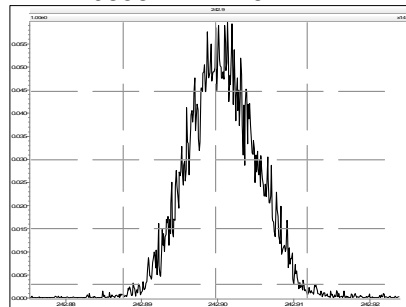
M 218.9856 R 12627



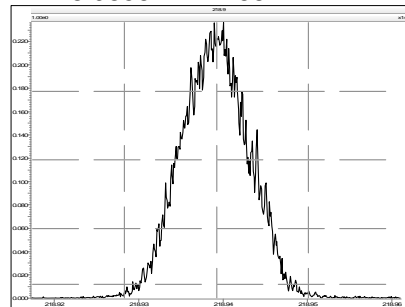
M 230.9856 R 11848



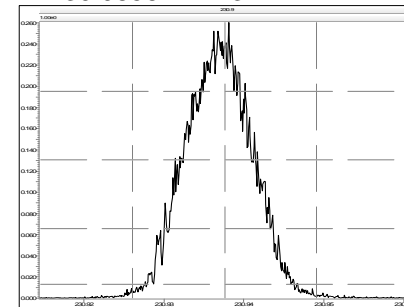
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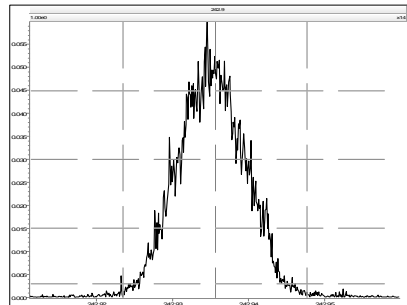
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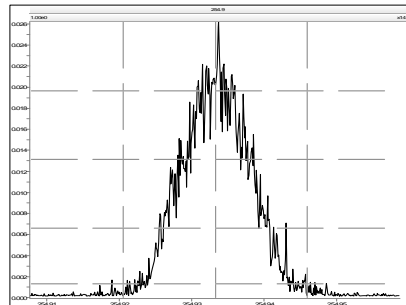
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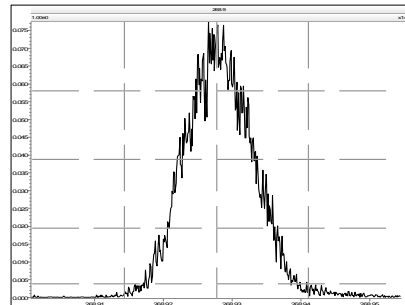
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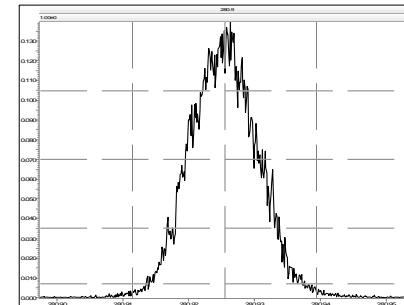
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M 268.9824 R 12406



M 280.9824 R 12021



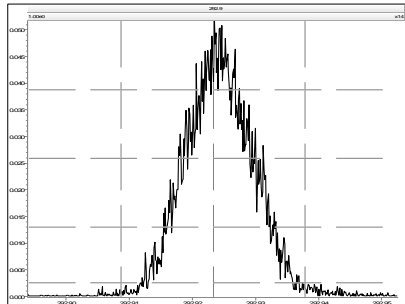
## Resolution Check Report

MassLynx 4.1

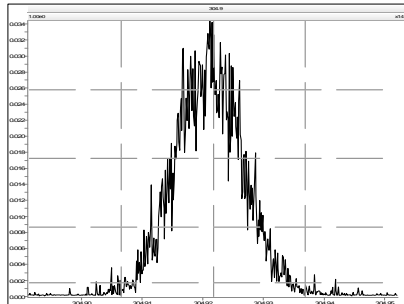
Page 2 of 6

Printed: Wednesday, February 05, 2014 16:14:54 Eastern Standard Time

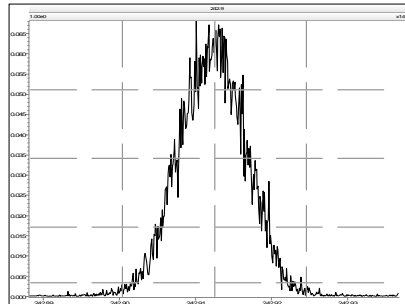
M 292.9824 R 12329



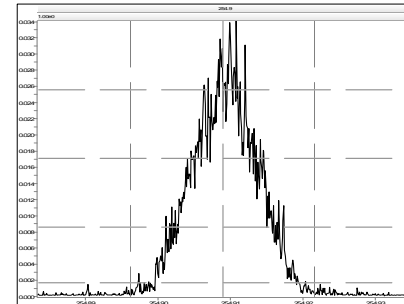
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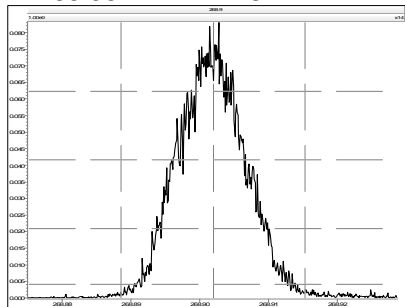
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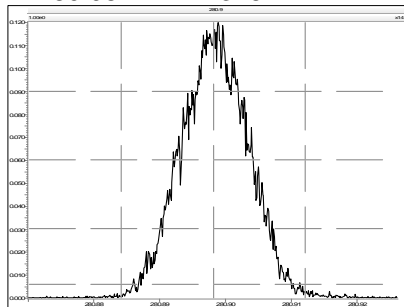
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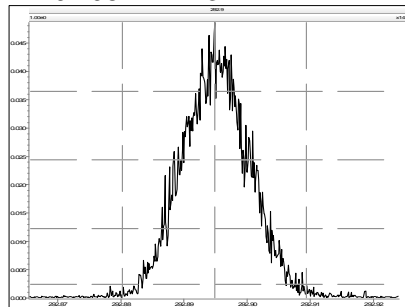
M 268.9824 R 12728



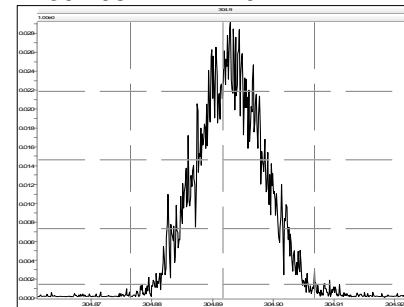
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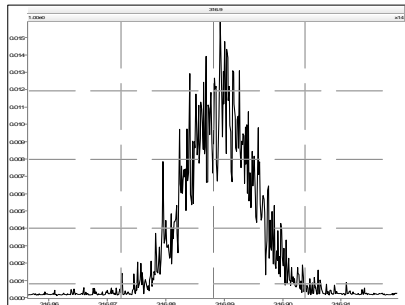
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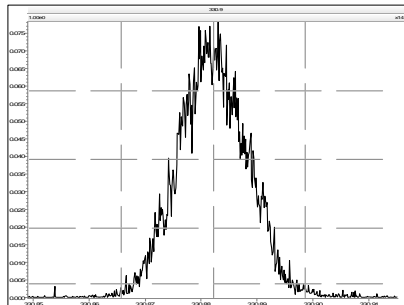
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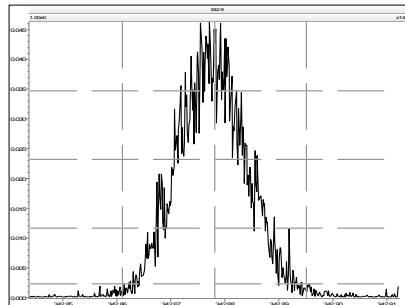
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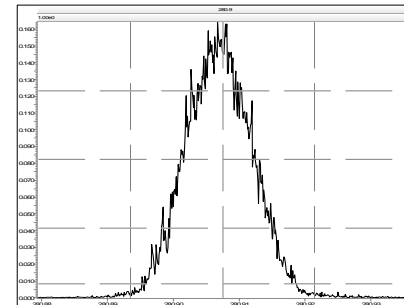
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M 342.9792 R 12255



M 280.9824 R 12445



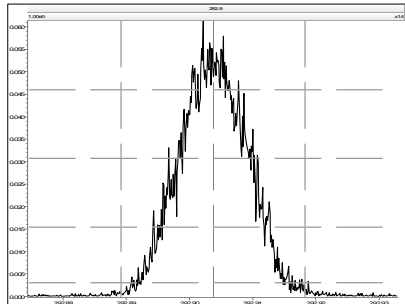
## Resolution Check Report

MassLynx 4.1

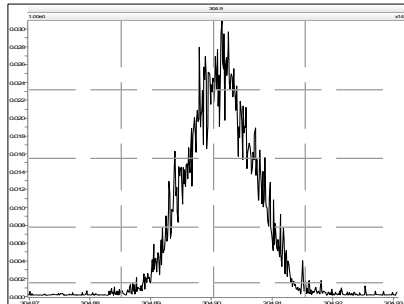
Page 3 of 6

Printed: Wednesday, February 05, 2014 16:14:54 Eastern Standard Time

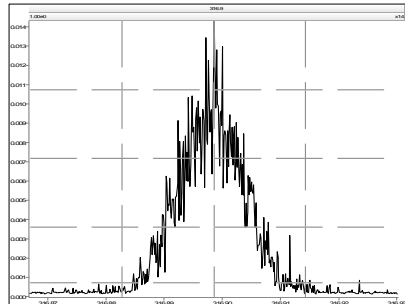
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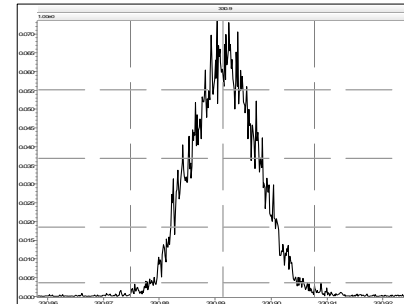
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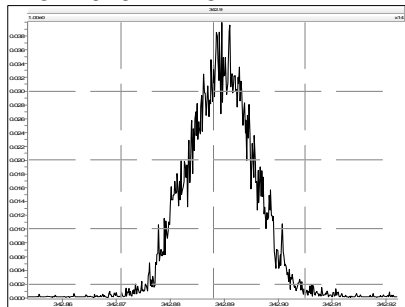
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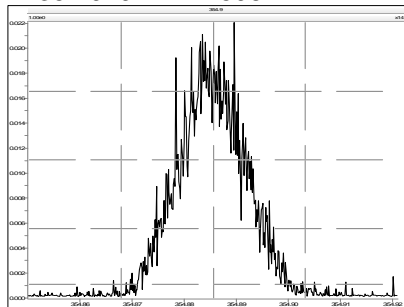
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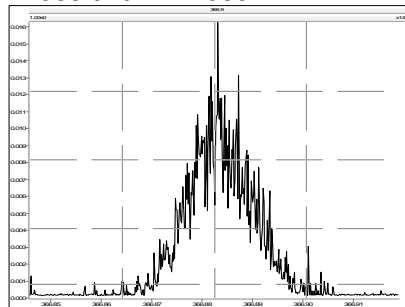
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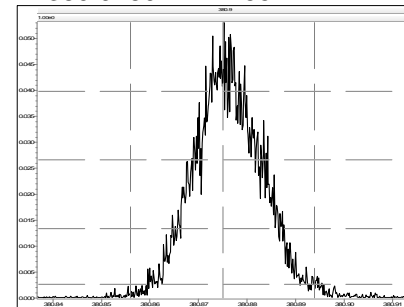
M 354.9792 R 12596



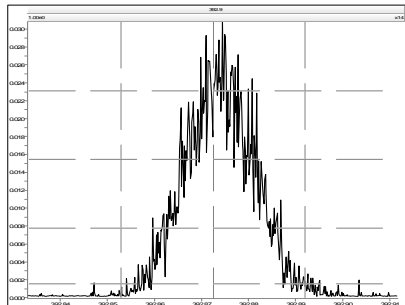
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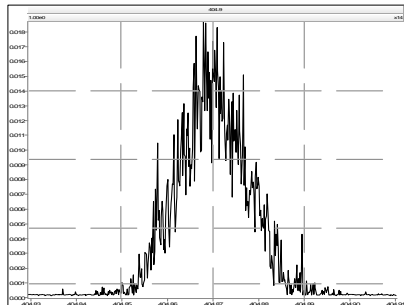
M 380.9760 R 12255



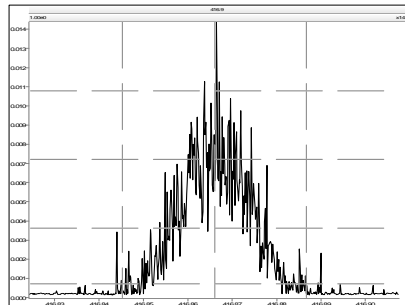
M 392.9760 R 13179



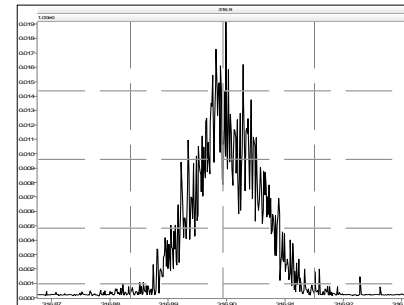
M 404.9760 R 13407



M 416.9760 R 13368



M 316.9824 R 13976





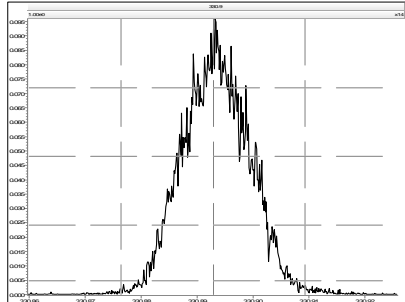
## Resolution Check Report

MassLynx 4.1

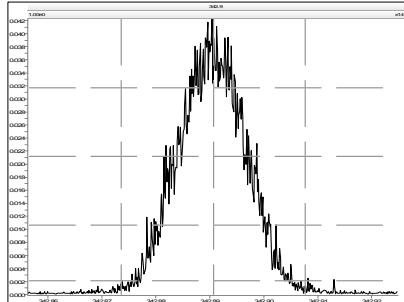
Page 4 of 6

Printed: Wednesday, February 05, 2014 16:14:54 Eastern Standard Time

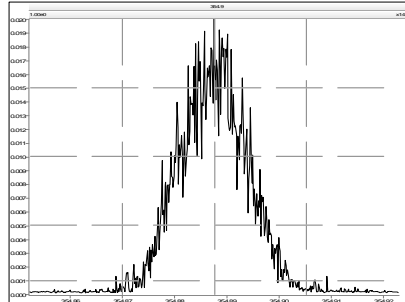
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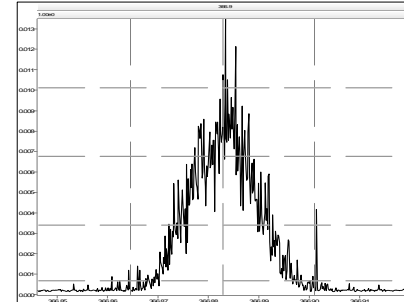
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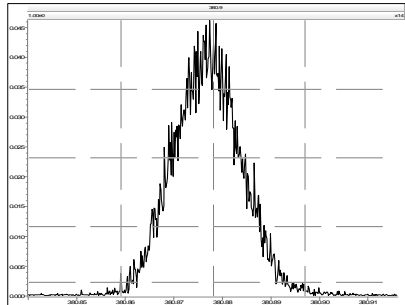
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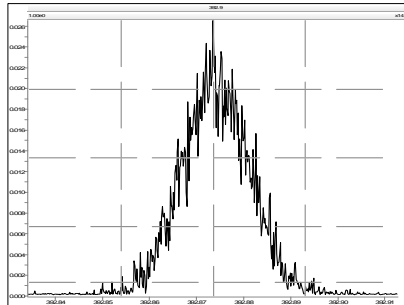
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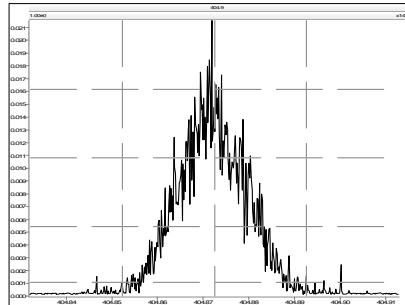
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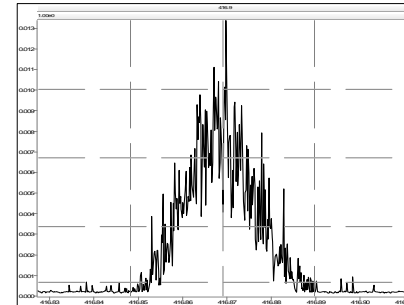
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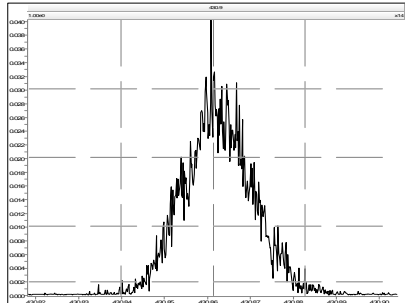
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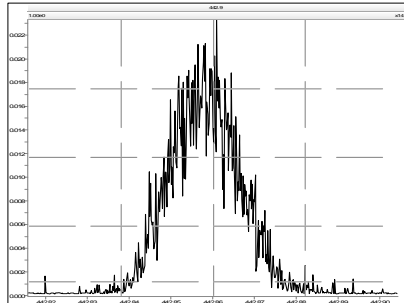
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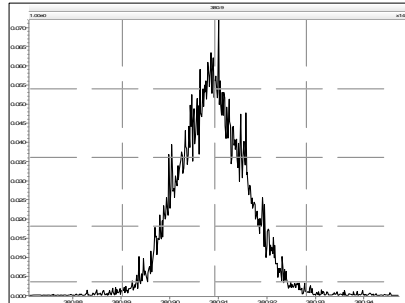
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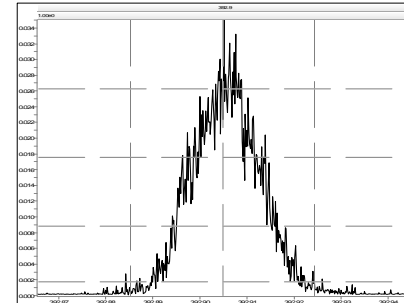
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M 380.9760 R 12469



M 392.9760 R 12658



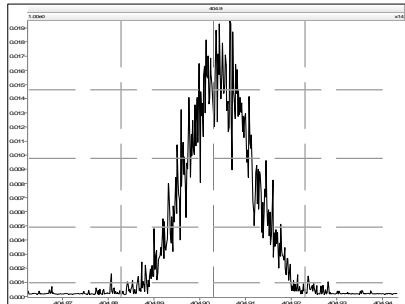
## Resolution Check Report

MassLynx 4.1

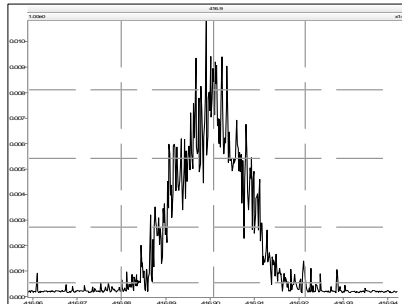
Page 5 of 6

Printed: Wednesday, February 05, 2014 16:14:54 Eastern Standard Time

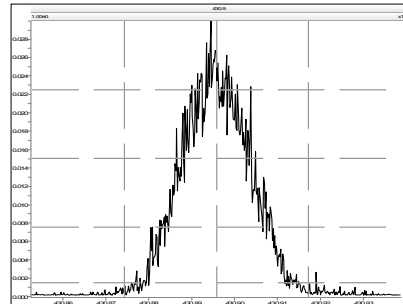
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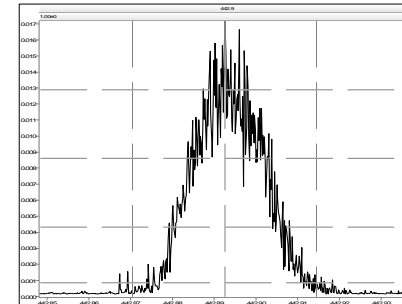
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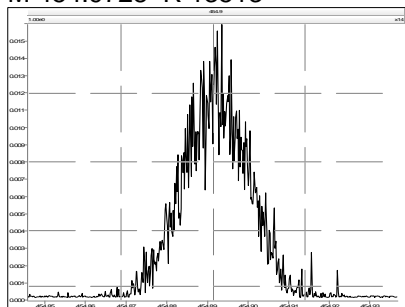
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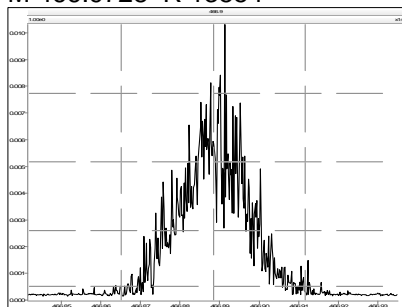
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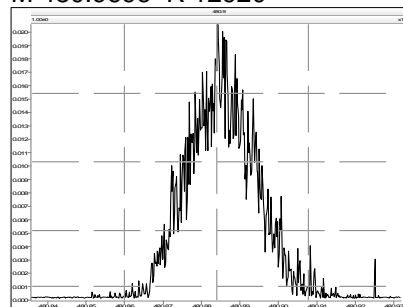
M 454.9728 R 13513



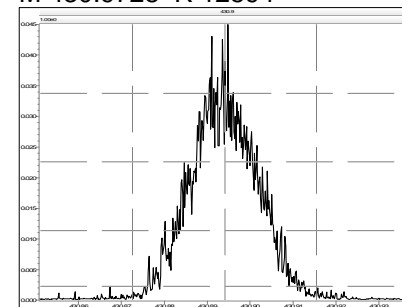
M 466.9728 R 13554



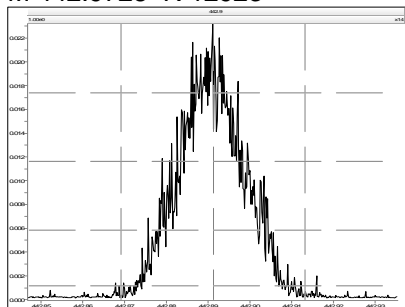
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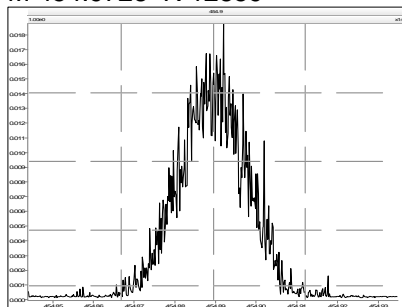
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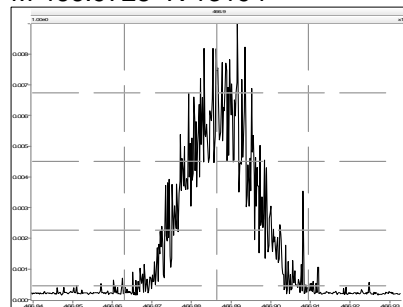
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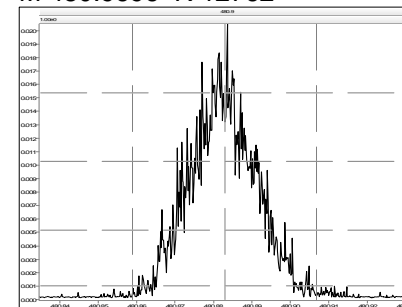
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M 466.9728 R 13194



M 480.9696 R 12762



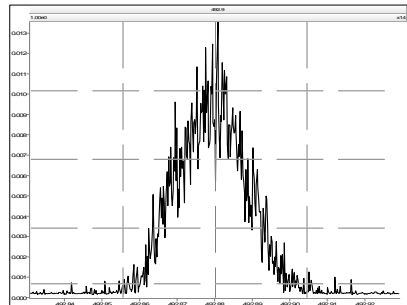
## Resolution Check Report

MassLynx 4.1

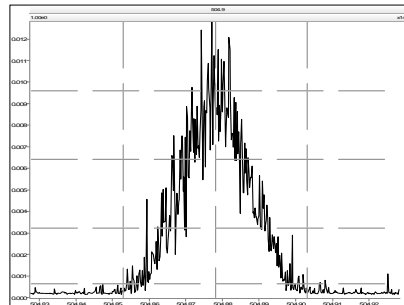
Page 6 of 6

Printed: Wednesday, February 05, 2014 16:14:54 Eastern Standard Time

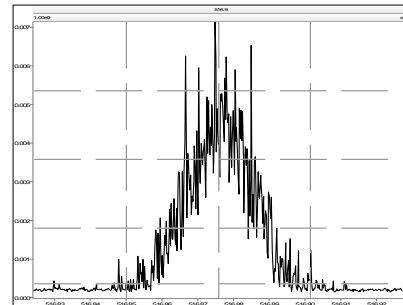
M 492.9696 R 12755



M 504.9696 R 12530



M 516.9697 R 13298



Lab ID: OPR1\_11883\_PCB-RJ

ACQ: 24-Mar-2014 14:44:33 CTW

Wt/Vol: 1 µL

ICAL: MM4\_PCB\_10292013\_05FEB2014 CS3\_140324\_PCB\_SA

Client ID: 0\_11883\_OPR001

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J-level: 10 pg/uL Split: 1

Checkcode: 059-730-BZY

Datafile: 140324S05

RPT: 02-Apr-2014 13:02 JJ

Stds (pg): JS: 100 ES: 100 CS/SS: 100

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	33.15		1.0006	1.0006	0	1.17E+07	0.79	1.36	50.9	8.05E+03	0.365
PCB-81 344'5'-TeCB	32.66		1.0005	1.0006	+0.2	1.14E+07	0.78	1.32	53.6	8.05E+03	0.379
PCB-105 233'44'-PeCB	36.15		1.0007	1.0007	0	7.86E+06	0.63	1.03	51.2	4.60E+04	3.19
PCB-114 2344'5'-PeCB	35.60		1.0007	1.0007	0	8.49E+06	0.61	1.13	50.8	4.60E+04	2.88
PCB-118 23'44'5'-PeCB	35.13		1.0007	1.0007	0	8.06E+06	0.62	1.13	50	4.60E+04	2.99
PCB-123 23'44'5'-PeCB	34.85		1.0007	1.0007	0	8.21E+06	0.60	1.11	51.4	4.60E+04	2.95
PCB-126 33'44'5'-PeCB	38.77		1.0005	1.0005	0	9.03E+06	0.62	1.33	50.2	3.05E+03	0.181
PCB-156/157 ...-HxCB	41.32	C	1.0005	1.0005	0	1.48E+07	1.27	1.09	101	5.41E+03	0.524
PCB-167 23'44'55'-HxCB	40.34		1.0006	1.0006	0	7.98E+06	1.23	1.15	52.1	5.41E+03	0.36
PCB-169 33'44'55'-HxCB	44.05		1.0005	1.0004	-0.3	6.72E+06	1.25	1.10	50.6	5.41E+03	0.436
PCB-189 233'44'55'-HpCB	46.18		1.0004	1.0004	0	8.47E+06	1.03	1.21	52	2.26E+03	0.147
PCB-209 DeCB	51.32		1.0004	1.0004	0	4.30E+06	1.15	1.07	51.5	2.16E+03	0.327
ES PCB-1	12.02		0.7239	0.7239	0	2.71E+07	3.21	1.05	98.8 %	15%	140%
ES PCB-3	14.35		0.8639	0.8639	0	2.37E+07	3.20	0.97	94 %	15%	140%
ES PCB-4	14.60		0.8794	0.8794	0	1.79E+07	1.55	0.66	104 %	30%	140%
ES PCB-15	20.38		1.2270	1.2272	+0.2	2.45E+07	1.67	1.09	87 %	30%	140%
ES PCB-19	17.73		1.0673	1.0674	+0.1	1.46E+07	1.09	0.55	102 %	30%	140%
ES PCB-37	26.76		1.0786	1.0786	0	1.84E+07	1.07	1.44	86.9 %	30%	140%
ES PCB-54	20.67		0.8332	0.8331	-0.1	2.12E+07	0.78	1.42	102 %	30%	140%
ES PCB-77	33.13		1.3353	1.3353	0	1.68E+07	0.80	1.26	91 %	30%	140%
ES PCB-81	32.65		1.3159	1.3160	+0.2	1.62E+07	0.82	1.27	87.1 %	30%	140%
ES PCB-104	25.68		0.8329	0.8328	-0.2	1.95E+07	1.56	1.56	97.4 %	30%	140%
ES PCB-105	36.12		1.1713	1.1714	+0.2	1.49E+07	1.57	1.23	93.8 %	30%	140%
ES PCB-114	35.58		1.1536	1.1537	+0.2	1.48E+07	1.64	1.20	95.4 %	30%	140%
ES PCB-118	35.11		1.1385	1.1386	+0.2	1.43E+07	1.58	1.13	98 %	30%	140%
ES PCB-123	34.83		1.1294	1.1294	0	1.43E+07	1.52	1.16	95.7 %	30%	140%
ES PCB-126	38.75		1.2564	1.2565	+0.2	1.35E+07	1.68	1.22	86.2 %	30%	140%
ES PCB-153	36.70		0.9717	0.9717	0	1.32E+07	1.28	1.10	91.5 %	30%	140%
ES PCB-155	30.66		0.8119	0.8119	0	1.82E+07	1.28	1.60	86.7 %	30%	140%
ES PCB-156/157	41.30		1.0935	1.0935	0	2.68E+07	1.26	1.14	90 %	30%	140%
ES PCB-167	40.31		1.0673	1.0674	+0.2	1.33E+07	1.24	1.17	87 %	30%	140%
ES PCB-169	44.03		1.1656	1.1657	+0.3	1.21E+07	1.27	1.11	83.5 %	30%	140%
ES PCB-170	43.54		0.9084	0.9084	0	9.86E+06	1.10	1.18	92.5 %	30%	140%
ES PCB-180	42.47		0.8861	0.8860	-0.3	1.15E+07	1.06	1.44	90.1 %	30%	140%
ES PCB-188	35.57		0.7421	0.7421	0	1.86E+07	1.06	1.52	93.1 %	30%	140%
ES PCB-189	46.16		0.9631	0.9631	0	1.34E+07	1.04	1.80	94.4 %	30%	140%
ES PCB-202	40.12		0.8372	0.8371	-0.2	1.61E+07	0.92	1.39	88.7 %	30%	140%
ES PCB-205	48.33		1.0084	1.0084	0	8.85E+06	0.91	1.26	88.9 %	30%	140%
ES PCB-206	49.81		1.0391	1.0391	0	6.91E+06	0.77	1.00	87.6 %	30%	140%
ES PCB-208	45.77		0.9550	0.9550	0	1.04E+07	0.78	1.38	95.8 %	30%	140%
ES PCB-209	51.29		1.0701	1.0701	0	7.84E+06	1.17	1.26	78.6 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	23.17		0.9341	0.9341	0	2.14E+07	1.09	1.10	106 %	40%	125%
SS PCB-111	33.14		1.0747	1.0747	0	1.57E+07	1.54	1.03	107 %	40%	125%
SS PCB-178	38.15		1.0099	1.0099	0	1.30E+07	1.06	0.62	113 %	40%	125%
CS PCB-28	23.17		0.9341	0.9341	0	2.14E+07	1.09	1.59	92.1 %	40%	125%
CS PCB-111	33.14		1.0747	1.0747	0	1.57E+07	1.54	1.20	102 %	40%	125%
CS PCB-178	38.15		1.0099	1.0099	0	1.30E+07	1.06	0.94	105 %	40%	125%
JS PCB-9	16.61					2.60E+07	1.67				
JS PCB-52	24.81					1.47E+07	0.76				
JS PCB-101	30.84					1.29E+07	1.61				
JS PCB-138	37.77					1.31E+07	1.27				
JS PCB-194	47.93					7.91E+06	0.90				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
						Mono-CBs	151	151	0.063		
						Di-CBs	593	593	0.186		
						Tri-CBs	1,190	1,190	0.188		
						Tetra-CBs	2,120	2,120	0.234		
						Penta-CBs	2,250	2,250	2.05		
						Hexa-CBs	2,170	2,170	0.358		
						Hepta-CBs	1,240	1,240	0.38		
						Octa-CBs	643	643	0.204		
						Nona-CBs	157	157	0.343		
PCB-1 2-MoCB	12.04		1.0011	1.0011	0	1.64E+07	3.18	1.21	49.8	2.81E+03	0.0545
PCB-2 3-MoCB	14.18		0.9880	0.9880	0	1.57E+07	3.21	1.28	51.7	2.81E+03	0.0723
PCB-3 4-MoCB	14.36		1.0010	1.0010	0	1.53E+07	3.18	1.30	49.9	2.81E+03	0.0715
PCB-4 22'-DiCB	14.62		1.0011	1.0011	0	9.02E+06	1.54	0.98	51.4	3.65E+03	0.161
PCB-10 26'-DiCB	14.80		1.0135	1.0135	0	1.42E+07	1.55	1.59	49.9	3.65E+03	0.0993
PCB-9 25'-DiCB	16.62		1.0010	1.0010	0	1.36E+07	1.56	1.16	47.6	6.26E+03	0.214
PCB-7 24'-DiCB	16.79		1.0111	1.0111	0	1.54E+07	1.59	1.29	48.4	6.26E+03	0.193
PCB-6 23'-DiCB	17.02		1.0249	1.0249	0	1.44E+07	1.58	1.21	48.4	6.26E+03	0.206
PCB-5 23'-DiCB	17.33		1.0433	1.0433	0	1.46E+07	1.56	1.20	49.4	6.26E+03	0.207
PCB-8 24'-DiCB	17.45		1.0506	1.0506	0	1.47E+07	1.54	1.22	49.1	6.26E+03	0.204
PCB-14 35'-DiCB	19.02		0.9334	0.9333	-0.1	1.70E+07	1.57	1.40	49.5	6.26E+03	0.178
PCB-11 33'-DiCB	19.81		0.9722	0.9721	-0.1	1.43E+07	1.52	1.17	50	6.26E+03	0.213
PCB-13/12 34'/34'-DiCB	20.11	C	0.9867	0.9866	-0.1	2.80E+07	1.55	1.15	99.1	6.26E+03	0.216
PCB-15 44'-DiCB	20.40		1.0008	1.0008	0	1.45E+07	1.57	1.19	49.7	6.26E+03	0.21
PCB-19 22'6-TrCB	17.74		1.0010	1.0010	0	7.61E+06	1.04	1.05	49.6	2.99E+03	0.188
PCB-30/18 246/22'5-TrCB	19.52	C	1.1013	1.1012	-0.1	1.97E+07	1.03	1.34	100	2.99E+03	0.147
PCB-17 22'4-TrCB	19.93		1.1242	1.1242	0	8.29E+06	1.02	1.15	49.4	2.99E+03	0.172
PCB-27 23'6-TrCB	20.12		1.1352	1.1352	0	1.15E+07	1.03	1.55	50.6	2.99E+03	0.127
PCB-24 236-TrCB	20.26		1.1429	1.1428	-0.1	1.11E+07	1.03	1.52	49.7	2.99E+03	0.129
PCB-16 22'3-TrCB	20.36		1.1485	1.1484	-0.1	6.32E+06	1.04	0.82	53	2.99E+03	0.242

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.84		1.1756	1.1756	0	1.22E+07	1.03	1.67	49.9	2.99E+03	0.118
PCB-34 23'5'-TrCB	22.00		0.8222	0.8221	-0.1	1.30E+07	1.07	1.44	49	4.41E+03	0.173
PCB-23 235-TrCB	22.15		0.8278	0.8278	0	1.31E+07	1.08	1.44	49.5	4.41E+03	0.174
PCB-26/29 23'5'/245-TrCB	22.44	C	0.8386	0.8385	-0.1	2.66E+07	1.06	1.47	98.5	4.41E+03	0.17
PCB-25 23'4-TrCB	22.64		0.8461	0.8460	-0.1	1.34E+07	1.07	1.45	50.4	4.41E+03	0.172
PCB-31 24'5-TrCB	22.92		0.8565	0.8565	0	1.36E+07	1.05	1.52	48.6	4.41E+03	0.164
PCB-28/20 244'/233'-TrCB	23.20	C	0.8673	0.8672	-0.1	2.56E+07	1.05	1.42	97.8	4.41E+03	0.176
PCB-21/33 234/23'4'-TrCB	23.39	C	0.8741	0.8740	-0.1	2.66E+07	1.06	1.47	98.3	4.41E+03	0.17
PCB-22 234'-TrCB	23.77		0.8882	0.8882	0	1.24E+07	1.05	1.36	49.3	4.41E+03	0.183
PCB-36 33'5-TrCB	25.16		0.9402	0.9402	0	1.33E+07	1.06	1.50	48.3	4.41E+03	0.166
PCB-39 34'5-TrCB	25.48		0.9523	0.9522	-0.2	1.37E+07	1.05	1.50	49.7	4.41E+03	0.167
PCB-38 345-TrCB	26.02		0.9723	0.9723	0	1.25E+07	1.06	1.36	50	4.41E+03	0.184
PCB-35 33'4-TrCB	26.41		0.9871	0.9871	0	1.20E+07	1.09	1.27	51.1	4.41E+03	0.196
PCB-37 344'-TrCB	26.78		1.0007	1.0007	0	1.23E+07	1.07	1.32	50.5	4.41E+03	0.188
PCB-54 22'66'-TeCB	20.69		1.0010	1.0009	-0.1	1.07E+07	0.82	1.02	49.7	2.36E+03	0.106
PCB-50/53 22'46/22'56'-TeCB	22.69	C	0.9147	0.9146	-0.1	1.53E+07	0.79	0.94	101	2.34E+03	0.155
PCB-45 22'36-TeCB	23.28		0.9385	0.9384	-0.1	6.25E+06	0.78	0.82	47.3	2.34E+03	0.178
PCB-51 22'46'-TeCB	23.36		0.9415	0.9416	+0.1	7.06E+06	0.79	0.93	46.7	2.34E+03	0.155
PCB-46 22'36'-TeCB	23.57		0.9501	0.9501	0	6.21E+06	0.79	0.77	49.8	2.34E+03	0.188
PCB-52 22'55'-TeCB	24.83		1.0009	1.0010	+0.1	7.31E+06	0.78	0.88	51.1	2.34E+03	0.164
PCB-73 23'5'6-TeCB	24.96		1.0062	1.0062	0	9.69E+06	0.76	1.23	48.8	2.34E+03	0.118
PCB-43 22'35-TeCB	25.06		1.0101	1.0100	-0.2	6.27E+06	0.79	0.72	54.1	2.34E+03	0.203
PCB-69/49 23'46/22'45'-TeCB	25.25	C	1.0180	1.0180	0	1.79E+07	0.79	1.08	102	2.34E+03	0.134
PCB-48 22'45-TeCB	25.54		1.0294	1.0294	0	7.37E+06	0.75	0.89	50.9	2.34E+03	0.162
PCB-44/47/65 ...-TeCB	25.76	C	1.0382	1.0382	0	2.37E+07	0.78	0.96	153	2.34E+03	0.151
PCB-59/62/75 ...-TeCB	26.03	C	1.0494	1.0494	0	3.05E+07	0.78	1.23	153	2.34E+03	0.117
PCB-42 22'34'-TeCB	26.20		1.0562	1.0562	0	6.89E+06	0.77	0.80	52.9	2.34E+03	0.18
PCB-41 22'34-TeCB	26.53		1.0697	1.0696	-0.2	5.70E+06	0.75	0.73	48.2	2.34E+03	0.199
PCB-71/40 23'4'6/22'33'-TeCB	26.63	C	1.0736	1.0735	-0.2	1.54E+07	0.77	0.92	104	2.34E+03	0.158
PCB-64 234'6-TeCB	26.83		1.0816	1.0816	0	1.06E+07	0.80	1.31	50.2	2.34E+03	0.111
PCB-72 23'55'-TeCB	27.55		0.8441	0.8440	-0.2	1.17E+07	0.79	1.45	50	8.05E+03	0.345
PCB-68 23'45'-TeCB	27.81		0.8519	0.8519	0	1.28E+07	0.79	1.56	50.5	8.05E+03	0.319
PCB-57 233'5-TeCB	28.19		0.8634	0.8634	0	1.14E+07	0.79	1.41	50.1	8.05E+03	0.354
PCB-58 233'5'-TeCB	28.39		0.8697	0.8697	0	1.17E+07	0.77	1.44	50.3	8.05E+03	0.346
PCB-67 23'45-TeCB	28.55		0.8745	0.8744	-0.2	1.20E+07	0.77	1.49	49.9	8.05E+03	0.335
PCB-63 234'5-TeCB	28.78		0.8815	0.8814	-0.2	1.28E+07	0.77	1.58	50.2	8.05E+03	0.316
PCB-61/70/74/76 ...-TeCB	29.07	C	0.8904	0.8904	0	4.67E+07	0.77	1.45	199	8.05E+03	0.344
PCB-66 23'44'-TeCB	29.35		0.8991	0.8991	0	1.11E+07	0.77	1.39	49.2	8.05E+03	0.358
PCB-55 233'4-TeCB	29.50		0.9037	0.9037	0	1.10E+07	0.78	1.35	50.4	8.05E+03	0.369
PCB-56 233'4'-TeCB	29.94		0.9172	0.9171	-0.2	1.13E+07	0.79	1.34	52.1	8.05E+03	0.373
PCB-60 2344'-TeCB	30.13		0.9231	0.9231	0	1.13E+07	0.78	1.36	51.1	8.05E+03	0.366
PCB-80 33'55'-TeCB	30.46		0.9331	0.9331	0	1.31E+07	0.78	1.60	50.5	8.05E+03	0.313
PCB-79 33'45'-TeCB	31.79		0.9739	0.9739	0	1.33E+07	0.80	1.59	51.6	8.05E+03	0.314
PCB-78 33'45-TeCB	32.28		0.9889	0.9889	0	1.09E+07	0.78	1.30	51.6	8.05E+03	0.383
PCB-104 22'466'-PeCB	25.70		1.0009	1.0009	0	9.93E+06	0.62	1.02	49.8	2.17E+03	0.111
PCB-96 22'366'-PeCB	26.03		1.0134	1.0134	0	8.67E+06	0.62	0.90	49.4	2.17E+03	0.126
PCB-103 22'45'6-PeCB	27.73		0.8992	0.8991	-0.2	6.37E+06	0.60	0.94	47.5	4.60E+04	3.51
PCB-94 22'356'-PeCB	27.92		0.9054	0.9054	0	5.41E+06	0.60	0.81	46.7	4.60E+04	4.07

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PCB-95 22'35'6-PeCB	28.30		0.9179	0.9179	0	5.89E+06	0.64	0.87	47.3	4.60E+04	3.79
PCB-100/93 22'44'6/22'356-PeCB	28.52	C	0.9247	0.9247	0	1.17E+07	0.61	0.86	94.9	4.60E+04	3.81
PCB-102 22'456'-PeCB	28.63		0.9283	0.9285	+0.3	5.92E+06	0.62	0.96	43.2	4.60E+04	3.44
PCB-98 22'34'6'-PeCB	28.70		0.9307	0.9306	-0.2	5.68E+06	0.63	0.83	48	4.60E+04	3.98
PCB-88 22'346-PeCB	29.00		0.9405	0.9405	0	5.57E+06	0.62	0.84	46.3	4.60E+04	3.92
PCB-91 22'34'6-PeCB	29.07		0.9426	0.9426	0	6.36E+06	0.63	0.92	48.4	4.60E+04	3.59
PCB-84 22'33'6-PeCB	29.26		0.9490	0.9489	-0.2	5.11E+06	0.63	0.74	48.3	4.60E+04	4.46
PCB-89 22'346'-PeCB	29.68		0.9626	0.9626	0	5.37E+06	0.63	0.78	47.8	4.60E+04	4.2
PCB-121 23'45'6-PeCB	30.02		0.9737	0.9737	0	8.22E+06	0.61	1.19	48.1	4.60E+04	2.76
PCB-92 22'355'-PeCB	30.35		0.9841	0.9841	0	5.68E+06	0.61	0.82	48.4	4.60E+04	4.02
PCB-113/90/101 ...-PeCB	30.83	C	0.9999	0.9999	0	2.03E+07	0.60	0.96	147	4.60E+04	3.41
PCB-83 22'33'5-PeCB	31.27		1.0141	1.0141	0	4.73E+06	0.60	0.68	48.7	4.60E+04	4.86
PCB-99 22'44'5-PeCB	31.37		1.0172	1.0172	0	6.81E+06	0.59	0.97	49.1	4.60E+04	3.4
PCB-112 233'56-PeCB	31.47		1.0206	1.0206	0	7.85E+06	0.59	1.14	48.2	4.60E+04	2.89
PCB-108/119/86/97/125...-PeCB	31.82	C	1.0319	1.0319	0	4.14E+07	0.60	0.98	294	4.60E+04	3.34
PCB-117 234'56-PeCB	32.35		1.0492	1.0492	0	7.41E+06	0.60	1.07	48.3	4.60E+04	3.07
PCB-116/85 23456/22'344'-PeCB	32.45	C	1.0522	1.0522	0	1.39E+07	0.61	0.99	97.6	4.60E+04	3.31
PCB-110 233'4'6-PeCB	32.56		1.0560	1.0560	0	7.60E+06	0.59	1.05	50.6	4.60E+04	3.14
PCB-115 2344'6-PeCB	32.65		1.0588	1.0588	0	8.32E+06	0.60	1.18	49.3	4.60E+04	2.79
PCB-82 22'33'4-PeCB	32.85		1.0653	1.0653	0	4.94E+06	0.60	0.71	48.8	4.60E+04	4.66
PCB-111 233'55'-PeCB	33.16		1.0754	1.0754	0	8.40E+06	0.59	1.20	49	4.60E+04	2.75
PCB-120 23'455'-PeCB	33.56		1.0884	1.0884	0	8.42E+06	0.61	1.19	49.3	4.60E+04	2.76
PCB-107/124 ...-PeCB	34.53	C	0.9916	0.9916	0	1.57E+07	0.60	1.09	100	4.60E+04	3.01
PCB-109 233'46-PeCB	34.75		0.9975	0.9977	+0.4	8.71E+06	0.59	1.14	53.5	4.60E+04	2.9
PCB-106 233'45-PeCB	34.96		1.0039	1.0039	0	7.60E+06	0.60	1.06	50	4.60E+04	3.11
PCB-122 233'4'5'-PeCB	35.43		1.0091	1.0091	0	7.35E+06	0.62	0.99	50.2	4.60E+04	3.28
PCB-127 33'455'-PeCB	37.38		1.0348	1.0349	+0.2	7.75E+06	0.62	1.06	49.3	4.60E+04	3.12
PCB-155 22'44'66'-HxCB	30.69		1.0007	1.0007	0	1.02E+07	1.27	1.11	50.7	2.21E+03	0.114
PCB-152 22'3566'-HxCB	30.85		1.0061	1.0061	0	9.56E+06	1.26	1.02	51.2	2.21E+03	0.123
PCB-150 22'34'66'-HxCB	30.99		1.0108	1.0108	0	9.54E+06	1.27	1.02	51.2	2.21E+03	0.123
PCB-136 22'33'66'-HxCB	31.30		1.0208	1.0208	0	8.96E+06	1.27	0.95	51.7	2.21E+03	0.132
PCB-145 22'3466'-HxCB	31.57		1.0296	1.0296	0	9.10E+06	1.27	0.98	50.9	2.21E+03	0.128
PCB-148 22'34'56'-HxCB	32.85		1.0713	1.0713	0	7.12E+06	1.26	1.05	51.3	2.21E+03	0.168
PCB-151/135 ...-HxCB	33.38	C	1.0884	1.0884	0	1.37E+07	1.26	1.02	101	2.21E+03	0.173
PCB-154 22'44'56'-HxCB	33.58		1.0952	1.0952	0	7.78E+06	1.25	1.17	50.5	2.21E+03	0.151
PCB-144 22'345'6-HxCB	33.85		1.1038	1.1039	+0.2	7.19E+06	1.26	1.05	52	2.21E+03	0.168
PCB-147/149 ...-HxCB	34.15	C	1.1137	1.1138	+0.2	1.43E+07	1.25	1.05	103	2.21E+03	0.168
PCB-134 22'33'56-HxCB	34.33		1.1196	1.1196	0	6.00E+06	1.24	0.89	51.2	2.21E+03	0.198
PCB-143 22'3456'-HxCB	34.41		1.1222	1.1222	0	6.52E+06	1.26	0.96	51.5	2.21E+03	0.184
PCB-139/140 ...-HxCB	34.68	C	1.1308	1.1308	0	1.45E+07	1.25	1.06	103	2.21E+03	0.166
PCB-131 22'33'46-HxCB	34.85		1.1365	1.1365	0	6.35E+06	1.26	0.92	52.4	2.21E+03	0.192
PCB-142 22'3456-HxCB	35.00		1.1412	1.1413	+0.2	6.18E+06	1.23	0.92	50.8	2.21E+03	0.191
PCB-132 22'33'46'-HxCB	35.23		1.1489	1.1490	+0.2	6.51E+06	1.27	0.93	52.7	2.21E+03	0.189
PCB-133 22'33'55'-HxCB	35.64		1.1621	1.1622	+0.2	6.69E+06	1.25	0.97	52	2.21E+03	0.181
PCB-165 233'55'6-HxCB	35.98		0.9526	0.9526	0	8.40E+06	1.27	1.22	52	2.21E+03	0.144
PCB-146 22'34'55'-HxCB	36.19		0.9583	0.9583	0	7.26E+06	1.26	1.07	51.4	2.21E+03	0.165
PCB-161 233'45'6-HxCB	36.31		0.9615	0.9614	-0.2	9.10E+06	1.28	1.32	52.2	2.21E+03	0.133
PCB-153/168 ...-HxCB	36.74	C	0.9729	0.9729	0	1.76E+07	1.25	1.26	106	2.21E+03	0.141

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PCB-141 22'3455'-HxCB	36.89		0.9767	0.9767	0	6.60E+06	1.25	1.00	49.9	2.21E+03	0.176
PCB-130 22'33'45'-HxCB	37.24		0.9859	0.9859	0	6.12E+06	1.24	0.88	53	2.21E+03	0.202
PCB-137 22'344'5'-HxCB	37.43		0.9911	0.9910	-0.2	6.65E+06	1.24	1.00	50.5	2.21E+03	0.177
PCB-164 233'4'5'6'-HxCB	37.52		0.9933	0.9933	0	9.67E+06	1.24	1.36	53.8	2.21E+03	0.13
PCB-163/138/129 ...-HxCB	37.81	C	1.0011	1.0011	0	2.22E+07	1.26	1.06	158	2.21E+03	0.166
PCB-160 233'456-HxCB	37.95		1.0048	1.0047	-0.2	8.71E+06	1.26	1.24	53.3	2.21E+03	0.143
PCB-158 233'44'6'-HxCB	38.13		1.0096	1.0095	-0.2	9.67E+06	1.25	1.36	53.9	2.21E+03	0.13
PCB-128/166 ...-HxCB	38.87	C	0.9642	0.9642	0	1.32E+07	1.26	0.95	104	5.41E+03	0.435
PCB-159 233'455'-HxCB	39.69		0.9845	0.9844	-0.2	7.57E+06	1.32	1.12	50.9	5.41E+03	0.371
PCB-162 233'4'55'-HxCB	39.93		0.9904	0.9904	0	7.71E+06	1.24	1.12	51.7	5.41E+03	0.37
PCB-188 22'34'566'-HpCB	35.59		1.0006	1.0006	0	1.06E+07	1.06	1.10	51.9	2.06E+03	0.108
PCB-179 22'33'566'-HpCB	35.88		1.0087	1.0086	-0.2	1.01E+07	1.04	1.03	52.8	2.06E+03	0.114
PCB-184 22'344'66'-HpCB	36.33		1.0216	1.0215	-0.2	9.55E+06	1.03	0.99	51.8	2.06E+03	0.119
PCB-176 22'33'466'-HpCB	36.63		1.0299	1.0299	0	1.07E+07	1.09	1.12	51.5	2.06E+03	0.106
PCB-186 22'34566'-HpCB	37.03		1.0412	1.0412	0	1.00E+07	1.04	1.04	52	2.06E+03	0.114
PCB-178 22'33'55'6'-HpCB	38.17		1.0730	1.0730	0	7.39E+06	1.02	0.77	52	2.06E+03	0.154
PCB-175 22'33'45'6'-HpCB	38.71		1.0884	1.0884	0	6.21E+06	1.04	1.04	51.8	6.69E+03	0.596
PCB-187 22'34'55'6'-HpCB	38.94		1.0948	1.0949	+0.2	6.46E+06	1.02	1.10	51.1	6.69E+03	0.564
PCB-182 22'344'56'-HpCB	39.12		1.0999	1.0999	0	6.56E+06	1.05	1.13	50.7	6.69E+03	0.552
PCB-183 22'344'5'6'-HpCB	39.47		1.1096	1.1096	0	6.46E+06	1.02	1.14	49.3	6.69E+03	0.544
PCB-185 22'3455'6'-HpCB	39.55		1.1121	1.1120	-0.2	6.42E+06	1.03	1.08	51.7	6.69E+03	0.575
PCB-174 22'33'456'-HpCB	39.67		1.1152	1.1152	0	5.45E+06	0.99	0.92	51.6	6.69E+03	0.675
PCB-177 22'33'45'6'-HpCB	40.04		1.1257	1.1257	0	5.44E+06	1.03	0.93	51.3	6.69E+03	0.672
PCB-181 22'344'56'-HpCB	40.39		1.1355	1.1355	0	6.18E+06	1.02	1.05	51.6	6.69E+03	0.596
PCB-171/173 ...-HpCB	40.58	C	1.1407	1.1407	0	1.10E+07	1.05	0.93	103	6.69E+03	0.668
PCB-172 22'33'455'-HpCB	41.93		0.9083	0.9083	0	5.61E+06	1.00	0.93	52.7	6.69E+03	0.67
PCB-192 233'455'6'-HpCB	42.18		0.9137	0.9137	0	7.19E+06	1.02	1.20	52.4	6.69E+03	0.52
PCB-180/193 ...-HpCB	42.46	C	0.9197	0.9197	0	1.37E+07	1.01	1.13	106	6.69E+03	0.553
PCB-191 233'44'5'6'-HpCB	42.79		0.9269	0.9269	0	7.57E+06	1.01	1.23	53.9	6.69E+03	0.508
PCB-170 22'33'44'5'-HpCB	43.56		0.9437	0.9437	0	5.31E+06	1.01	1.06	50.9	6.69E+03	0.663
PCB-190 233'44'56'-HpCB	44.02		0.9535	0.9535	0	7.19E+06	1.04	1.42	51.5	6.69E+03	0.496
PCB-202 22'33'55'66'-OoCB	40.15		1.0005	1.0005	0	7.17E+06	0.88	0.83	53.7	1.99E+03	0.149
PCB-201 22'33'45'66'-OoCB	40.93		1.0202	1.0202	0	7.76E+06	0.88	0.90	53.7	1.99E+03	0.138
PCB-204 22'344'566'-OoCB	41.51		1.0346	1.0346	0	7.25E+06	0.88	0.84	53.7	1.99E+03	0.147
PCB-197 22'33'44'66'-OoCB	41.70		1.0394	1.0394	0	7.78E+06	0.86	0.94	51.4	1.99E+03	0.132
PCB-200 22'33'4566'-OoCB	41.80		1.0417	1.0417	0	7.50E+06	0.91	0.83	56.1	1.99E+03	0.149
PCB-198/199 ...-OoCB	44.13	C	1.0997	1.0998	+0.3	1.05E+07	0.86	0.59	109	1.99E+03	0.208
PCB-196 22'33'44'56'-OoCB	44.70		1.1141	1.1142	+0.3	5.49E+06	0.88	0.61	55.8	1.99E+03	0.202
PCB-203 22'344'55'6'-OoCB	44.87		1.1184	1.1184	0	5.61E+06	0.89	0.62	55.6	1.99E+03	0.198
PCB-195 22'33'44'56'-OoCB	46.00		0.9518	0.9518	0	4.11E+06	0.90	0.93	50.1	2.46E+03	0.31
PCB-194 22'33'44'55'-OoCB	47.95		0.9921	0.9921	0	4.26E+06	0.91	0.95	50.6	2.46E+03	0.302
PCB-205 233'44'55'6'-OoCB	48.35		1.0004	1.0004	0	5.20E+06	0.90	1.11	52.9	2.46E+03	0.259
PCB-208 22'33'455'66'-NoCB	45.79		1.0005	1.0005	0	5.58E+06	0.76	1.01	52.8	2.76E+03	0.27
PCB-207 22'33'44'566'-NoCB	46.59		1.0177	1.0178	+0.3	5.73E+06	0.77	1.05	52.3	2.76E+03	0.26
PCB-206 22'33'44'55'6'-NoCB	49.83		1.0004	1.0004	0	3.62E+06	0.78	1.01	51.7	2.76E+03	0.415



**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM4\_PCB\_10292013\_05FEB2014  
 Instrument ID: MM4 GC Column ID:  
 VER Data Filename: 140324S05 Analysis Date: 24-MAR-2014 14:44:33  
 Lab ID: OPR1\_11883\_PCB-RJ

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	99.7	50 - 150	Y
PCB-3 4-MoCB	50	99.7	50 - 150	Y
PCB-4 22'-DiCB	50	103	50 - 150	Y
PCB-15 44'-DiCB	50	99.3	50 - 150	Y
PCB-19 22'6'-TrCB	50	99.2	50 - 150	Y
PCB-37 344'-TrCB	50	101	50 - 150	Y
PCB-54 22'66'-TeCB	50	99.3	50 - 150	Y
PCB-77 33'44'-TeCB	50	102	50 - 150	Y
PCB-81 344'5'-TeCB	50	107	50 - 150	Y
PCB-104 22'466'-PeCB	50	99.7	50 - 150	Y
PCB-105 233'44'-PeCB	50	102	50 - 150	Y
PCB-114 2344'5'-PeCB	50	102	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	99.9	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	103	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	100	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	101	50 - 150	Y
PCB-156/157 ...-HxCB	100	101	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	104	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	101	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	104	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	104	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	107	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	106	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	103	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	106	50 - 150	Y
PCB-209 DeCB	50	103	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 02 Apr 2014 13:02 Analyst: JJ

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM4\_PCB\_10292013\_05FEB2014  
 Instrument ID: MM4 GC Column ID:  
 VER Data Filename: 140324S05 Analysis Date: 24-MAR-2014 14:44:33  
 Lab ID: OPR1\_11883\_PCB-RJ

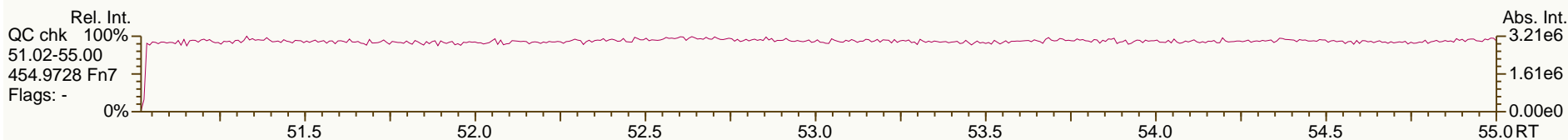
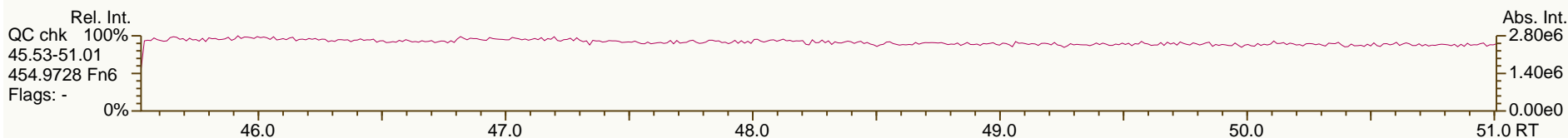
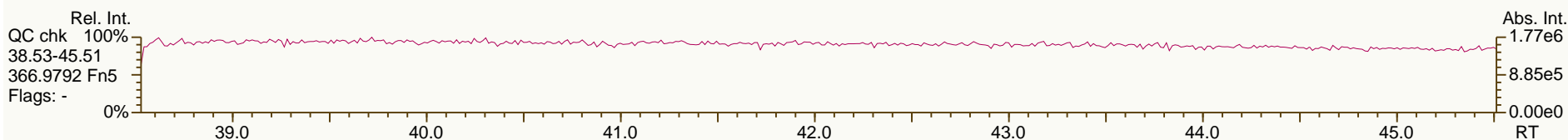
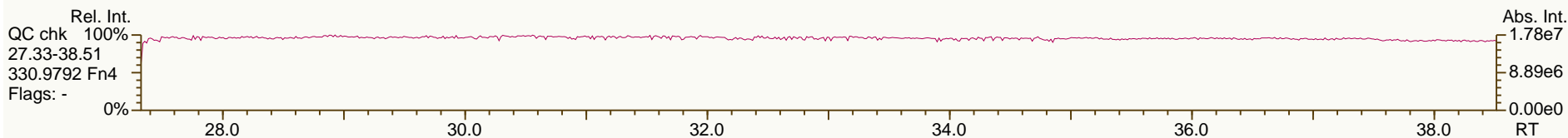
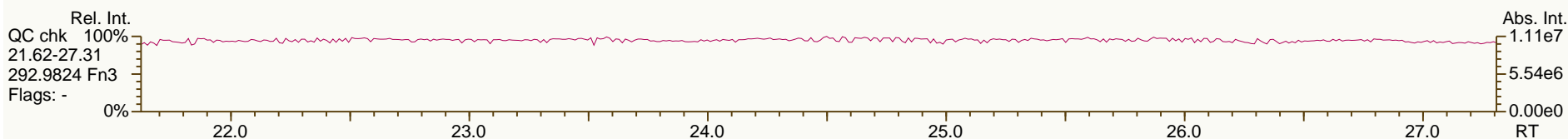
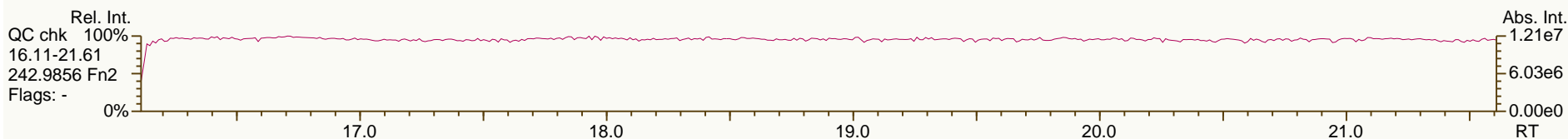
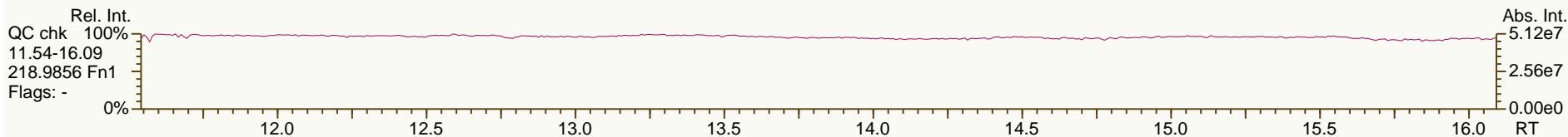
LABELED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	98.8	15	-	140	Y
ES PCB-3	100	94	15	-	140	Y
ES PCB-4	100	104	30	-	140	Y
ES PCB-15	100	87	30	-	140	Y
ES PCB-19	100	102	30	-	140	Y
ES PCB-37	100	86.9	30	-	140	Y
ES PCB-54	100	102	30	-	140	Y
ES PCB-77	100	91	30	-	140	Y
ES PCB-81	100	87.1	30	-	140	Y
ES PCB-104	100	97.4	30	-	140	Y
ES PCB-105	100	93.8	30	-	140	Y
ES PCB-114	100	95.4	30	-	140	Y
ES PCB-118	100	98	30	-	140	Y
ES PCB-123	100	95.7	30	-	140	Y
ES PCB-126	100	86.2	30	-	140	Y
ES PCB-153	100	91.5	30	-	140	Y
ES PCB-155	100	86.7	30	-	140	Y
ES PCB-156/157	200	90	30	-	140	Y
ES PCB-167	100	87	30	-	140	Y
ES PCB-169	100	83.5	30	-	140	Y
ES PCB-170	100	92.5	30	-	140	Y
ES PCB-180	100	90.1	30	-	140	Y
ES PCB-188	100	93.1	30	-	140	Y
ES PCB-189	100	94.4	30	-	140	Y
ES PCB-202	100	88.7	30	-	140	Y
ES PCB-205	100	88.9	30	-	140	Y
ES PCB-206	100	87.6	30	-	140	Y
ES PCB-208	100	95.8	30	-	140	Y
ES PCB-209	100	78.6	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	92.1	40	-	125	Y
CS PCB-111	100	102	40	-	125	Y
CS PCB-178	100	105	40	-	125	Y

Processed: 02 Apr 2014 13:02 Analyst: JJ

SGS ID: OPR1\_11883\_PCB-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

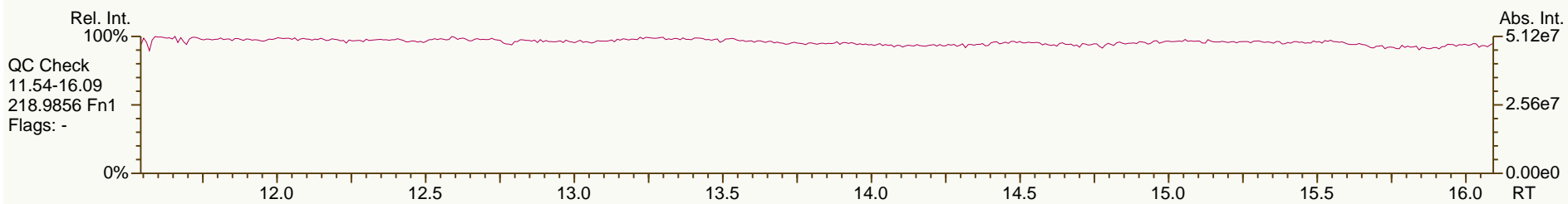
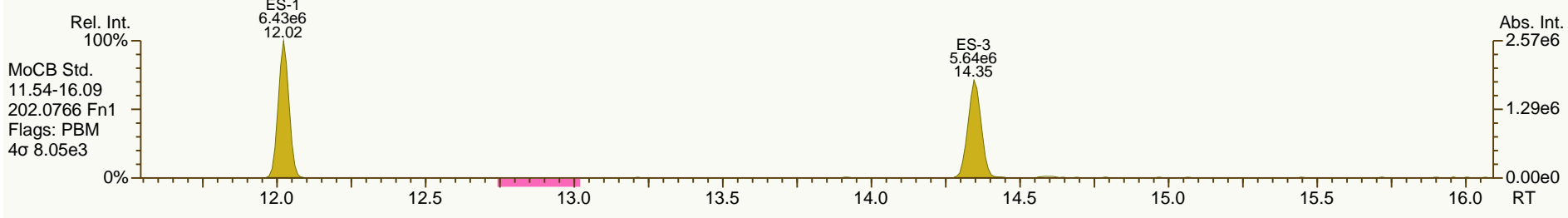
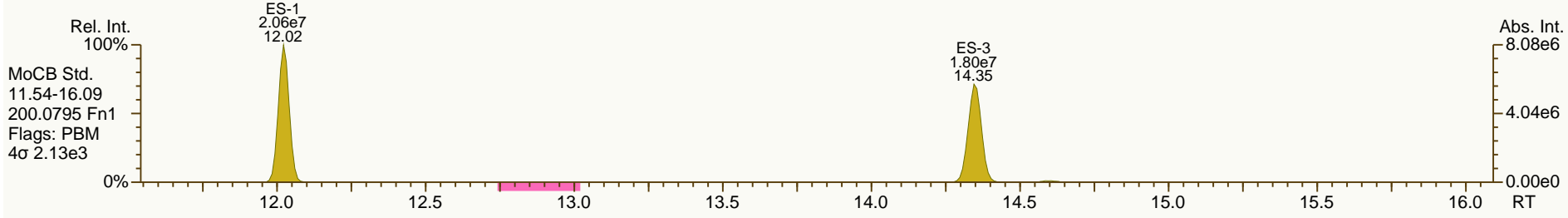
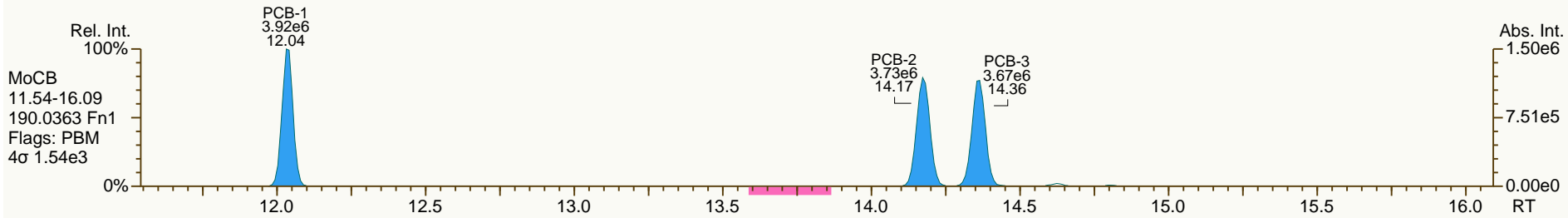
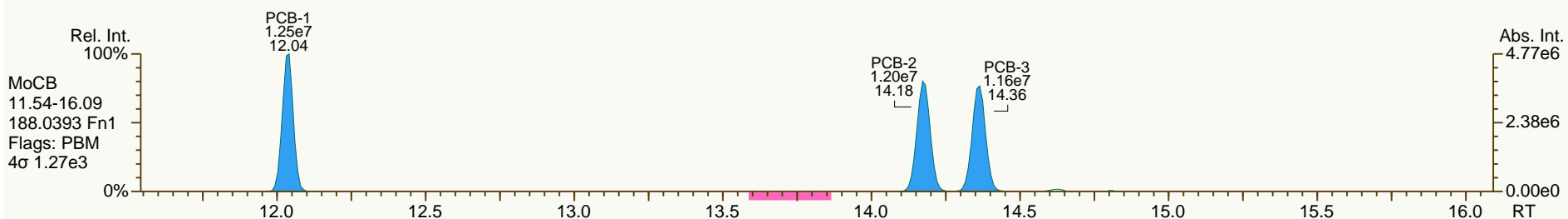
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

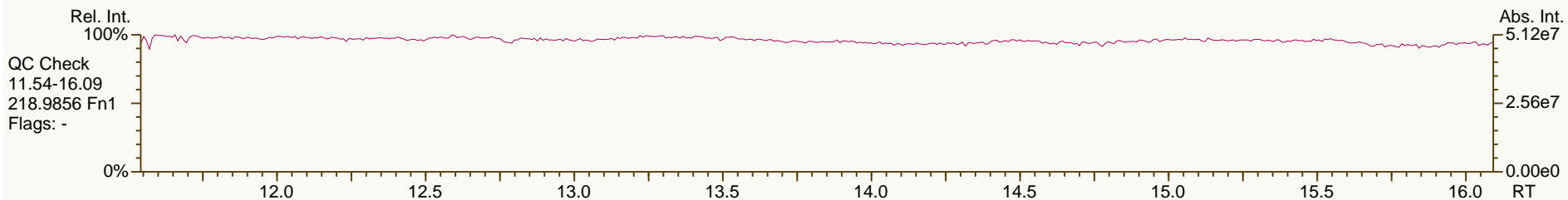
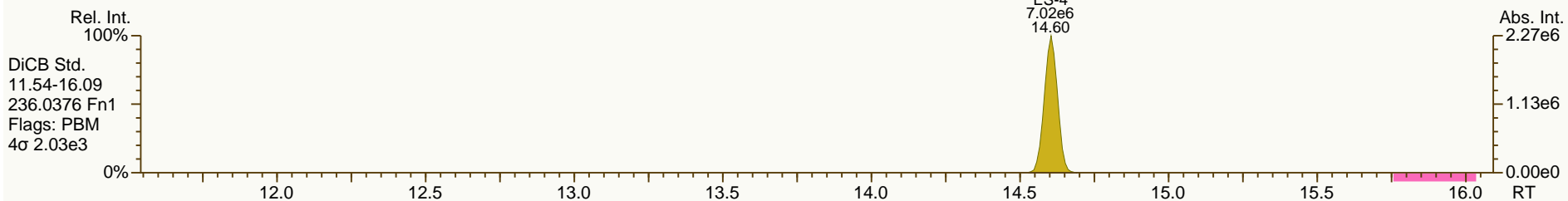
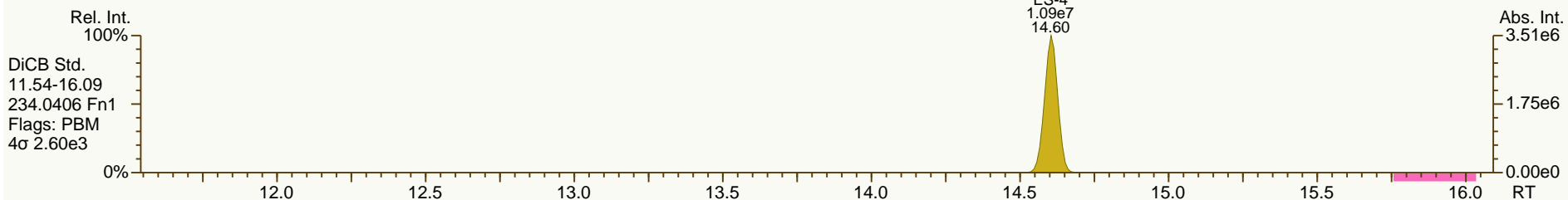
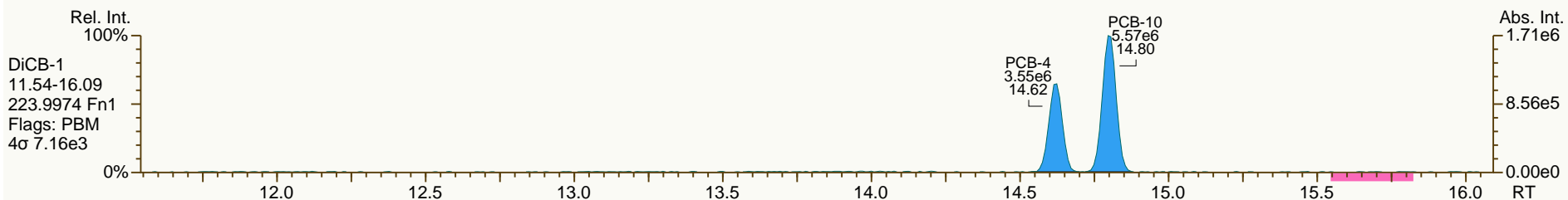
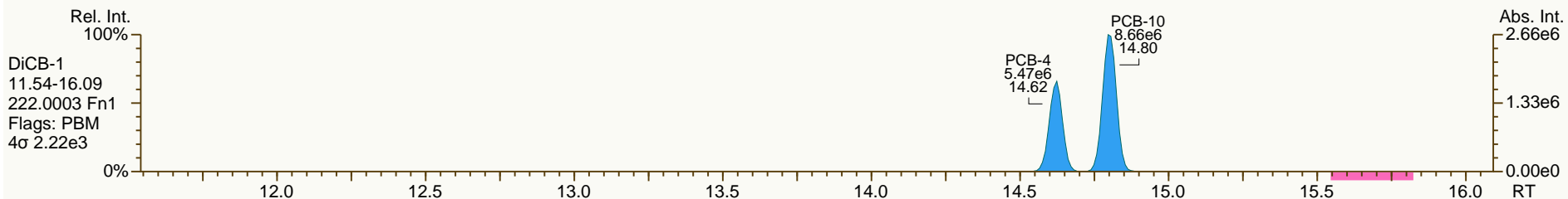
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

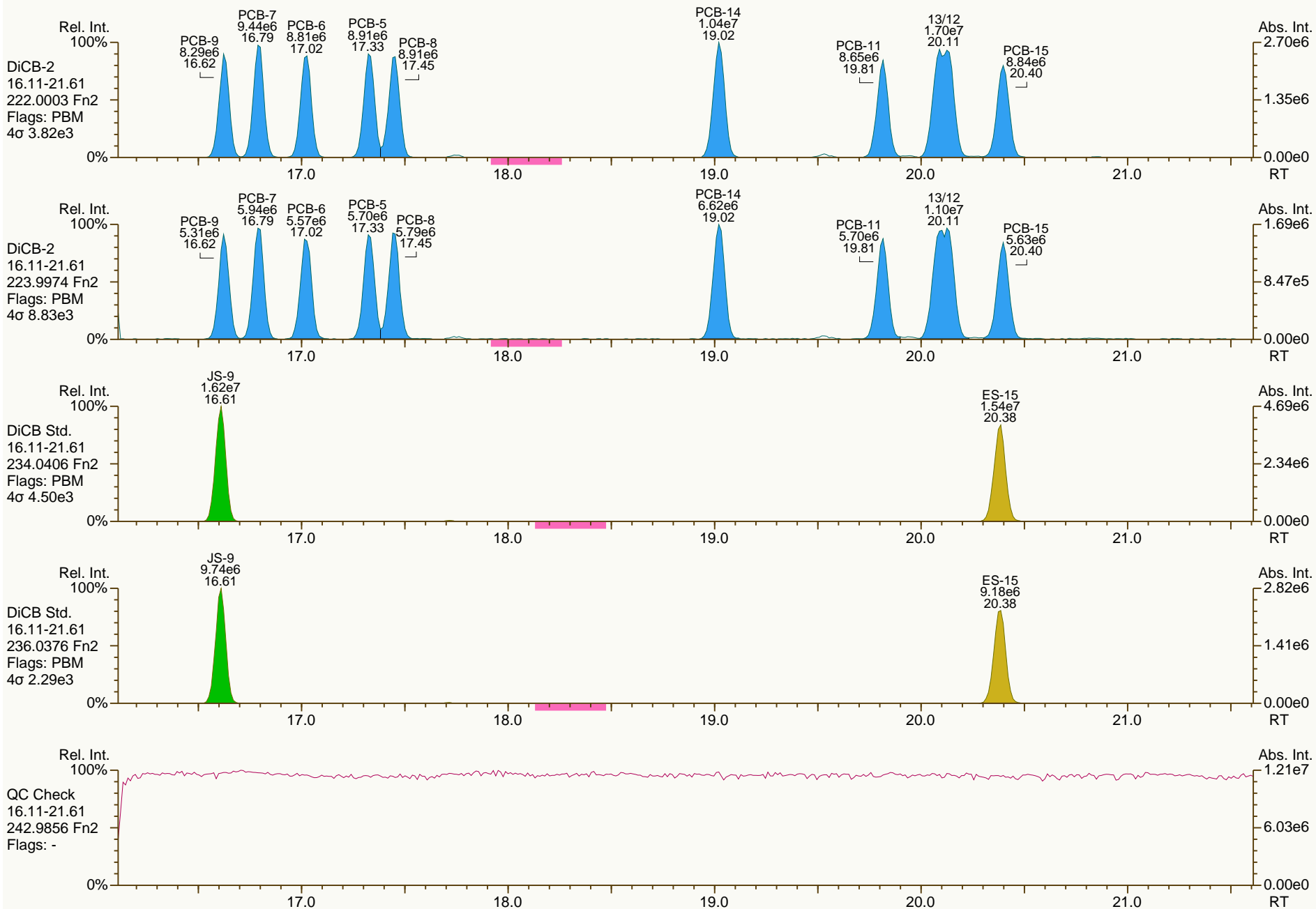
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

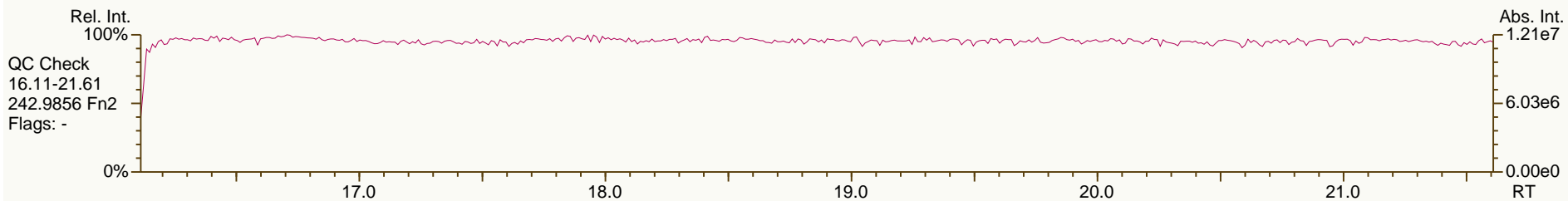
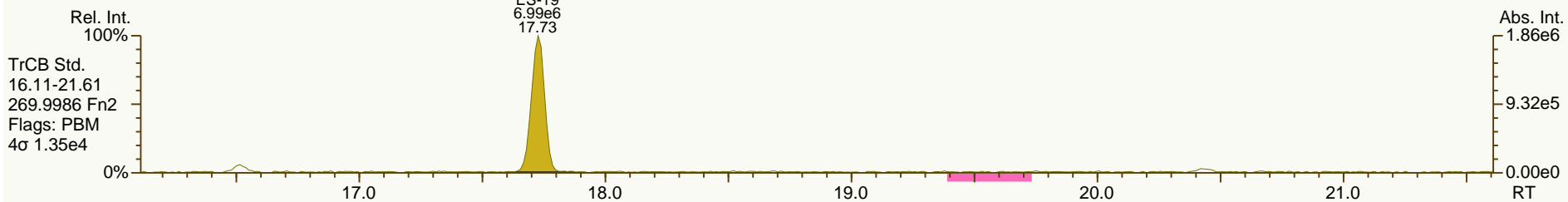
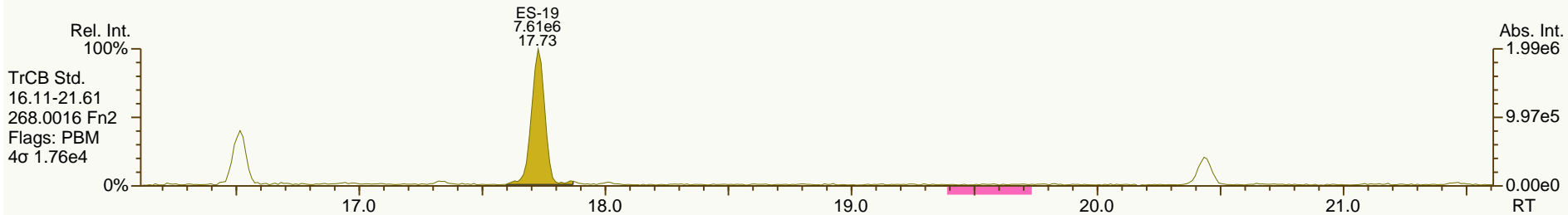
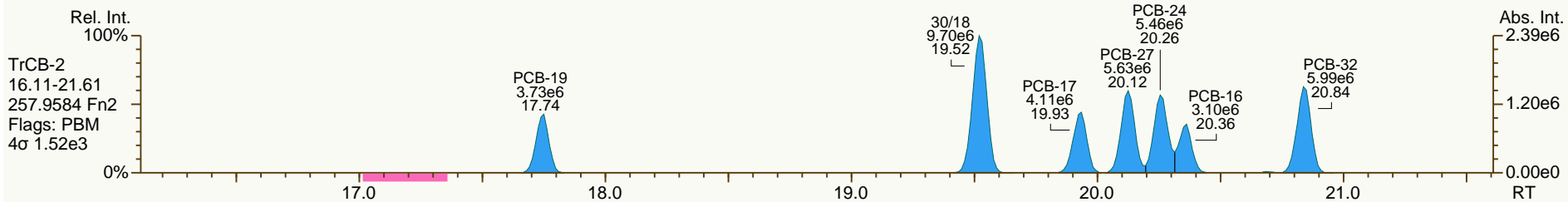
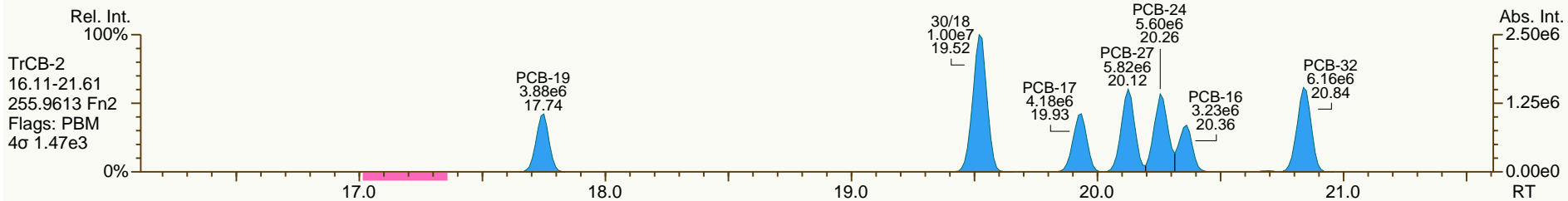
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

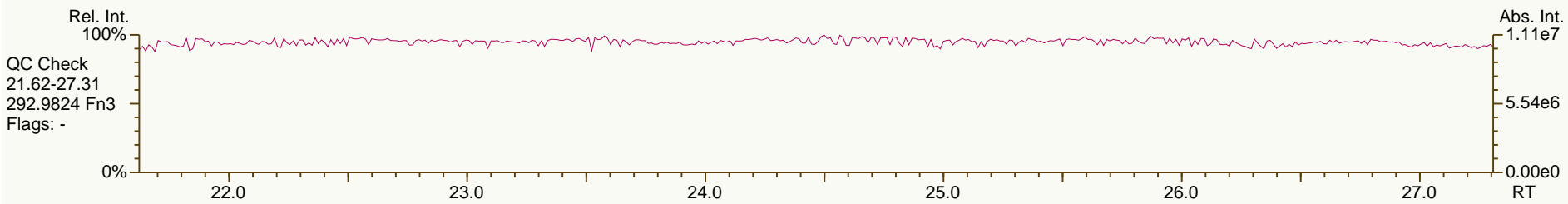
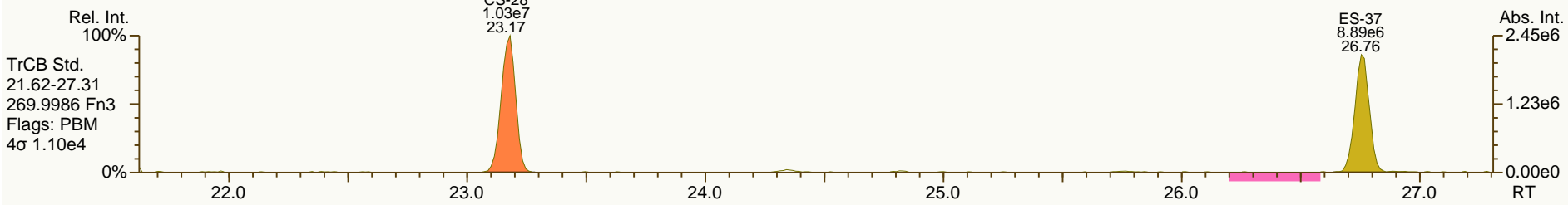
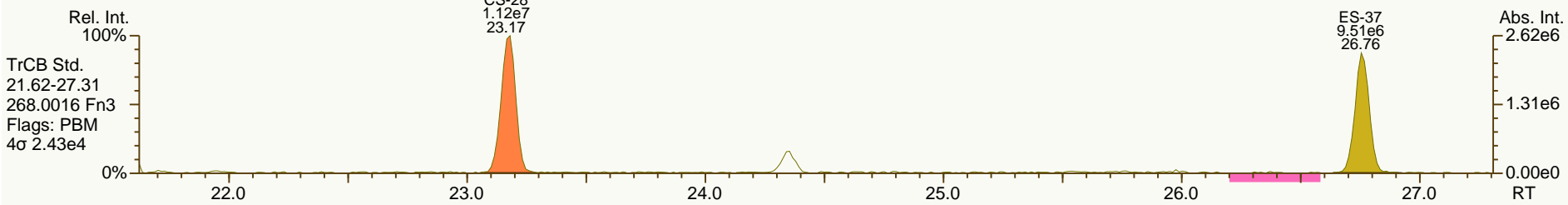
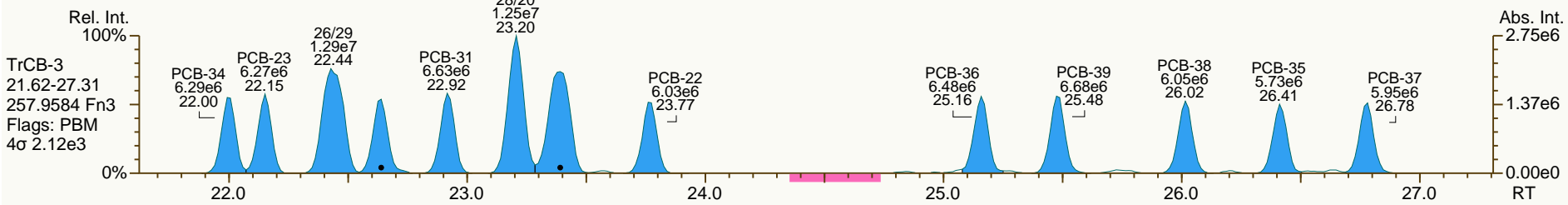
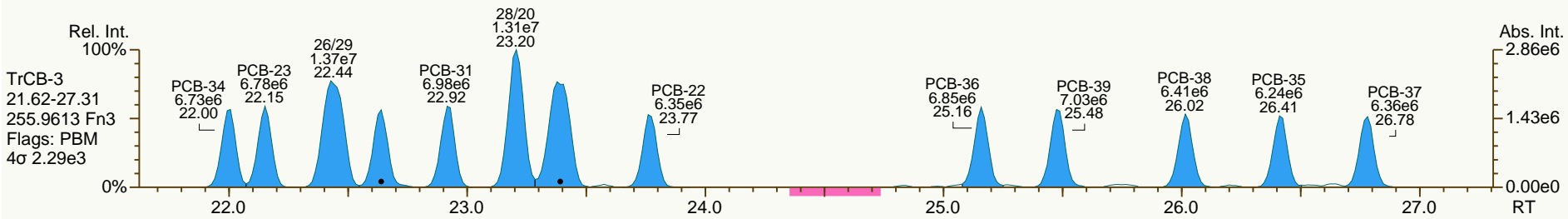
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

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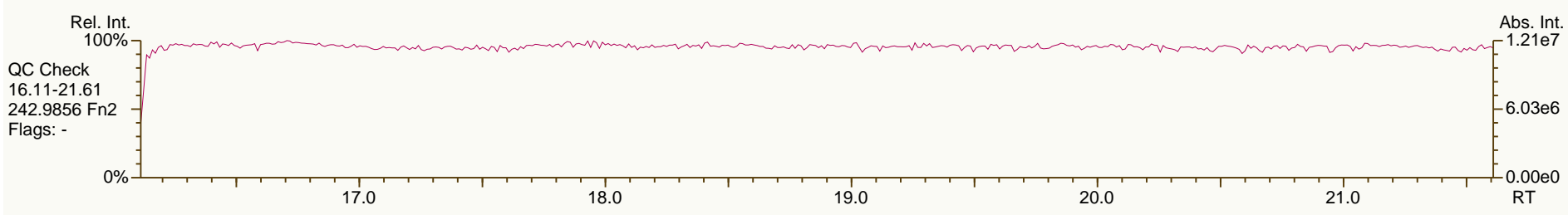
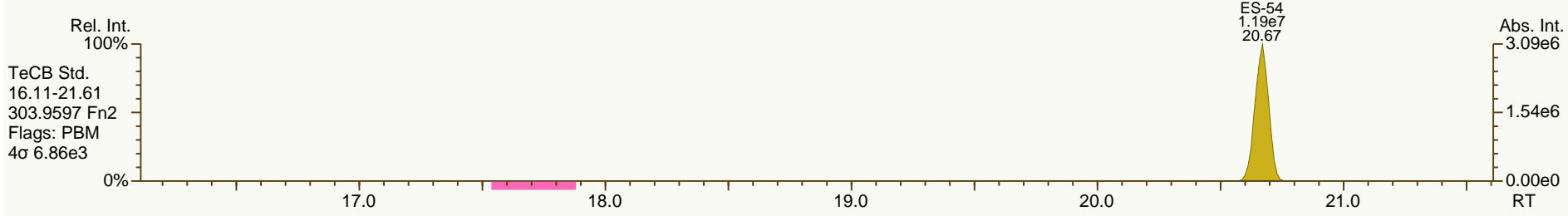
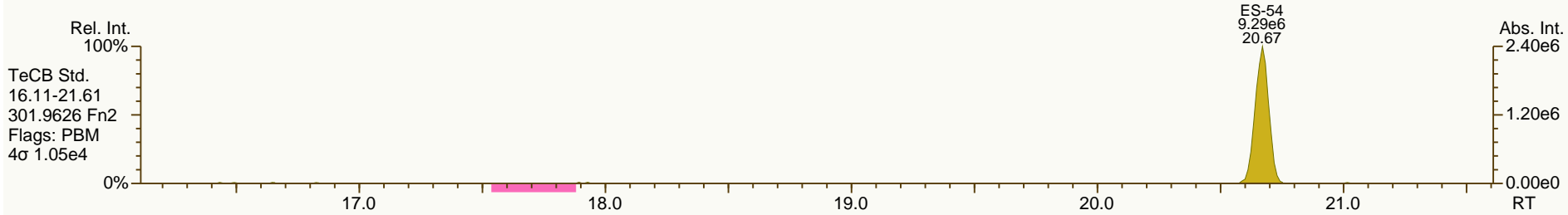
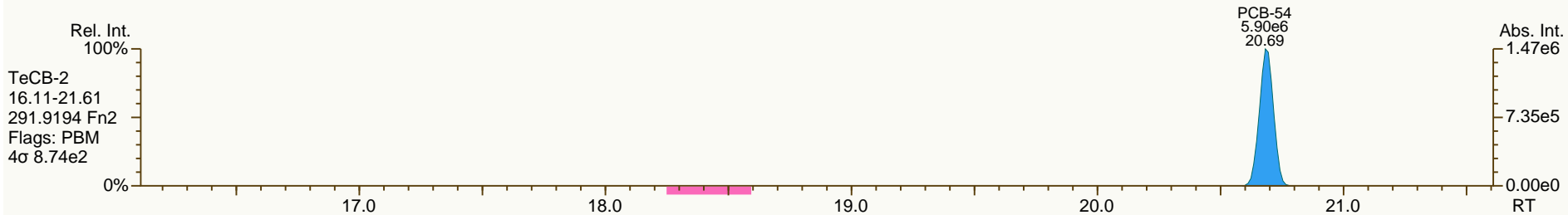
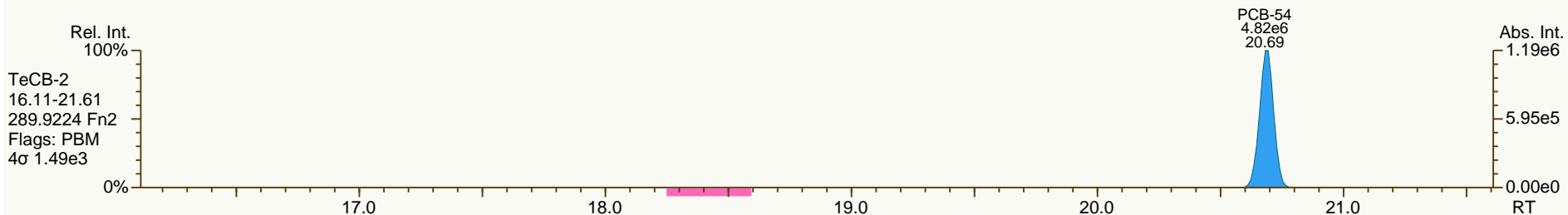




SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

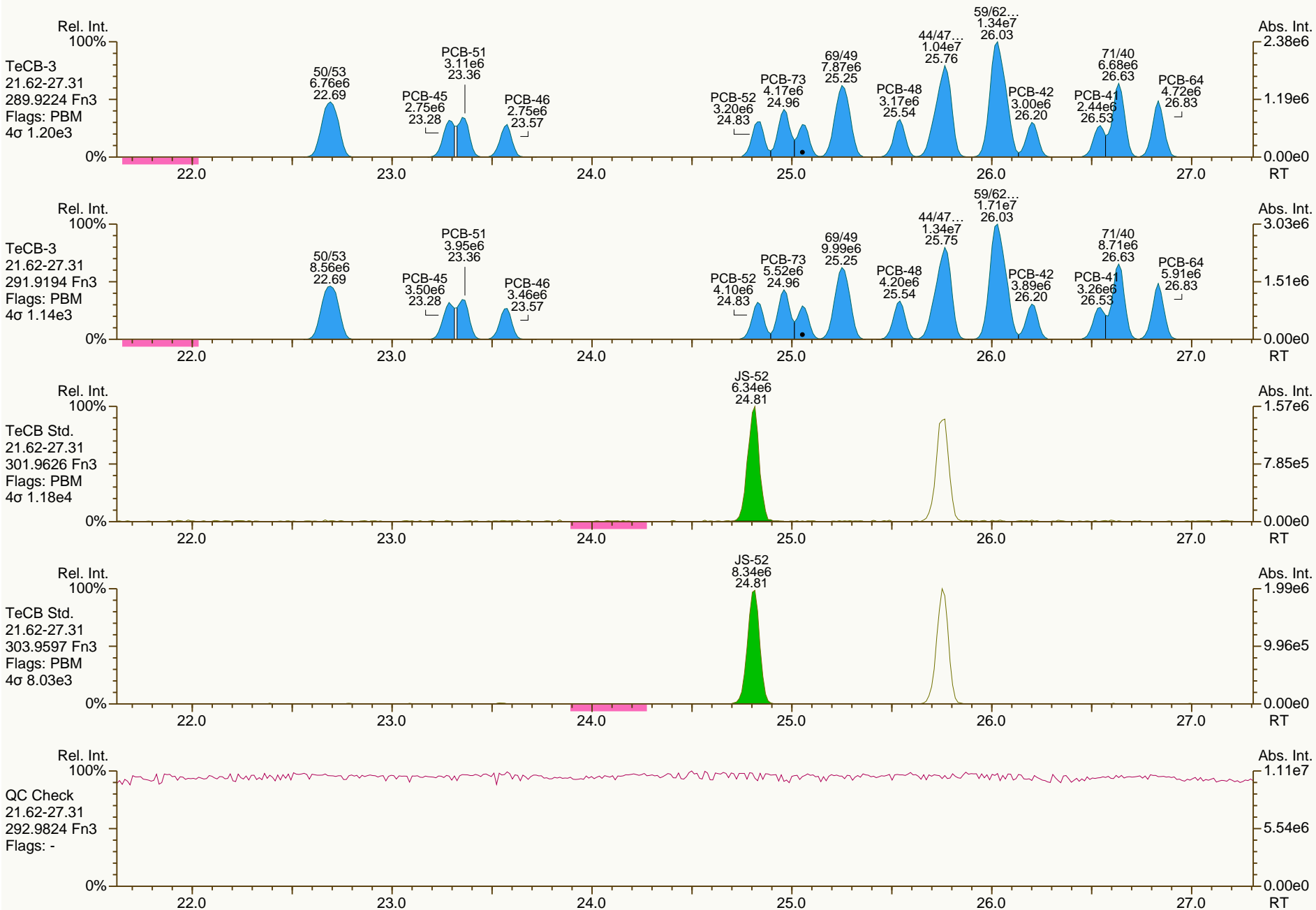
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SGS ID: OPR1\_11883\_PCB-RJ  
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Sample ID: 0\_11883\_OPR001  
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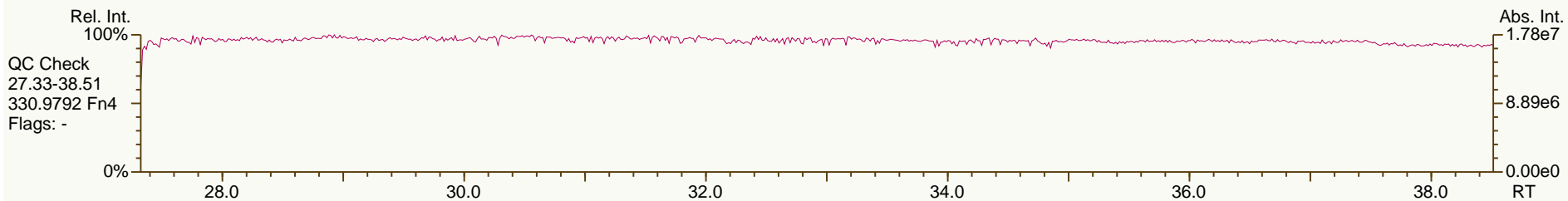
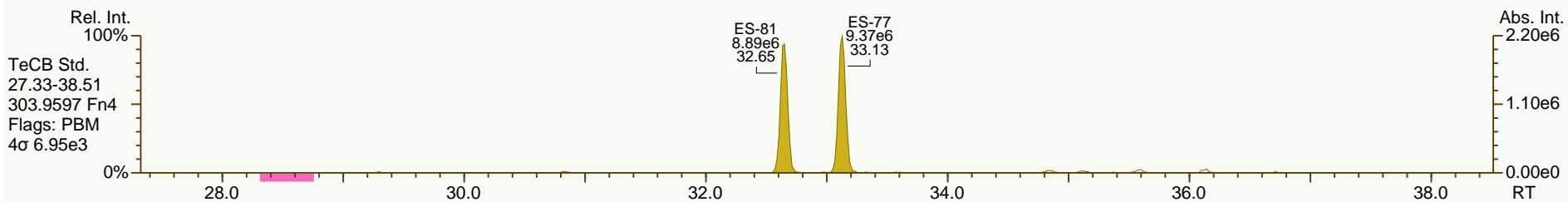
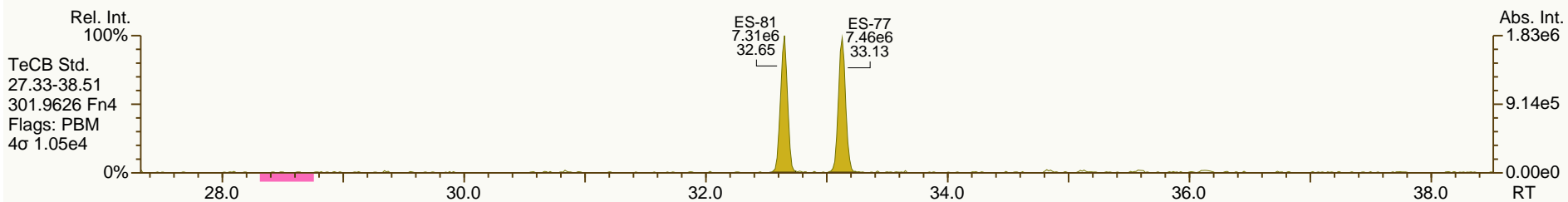
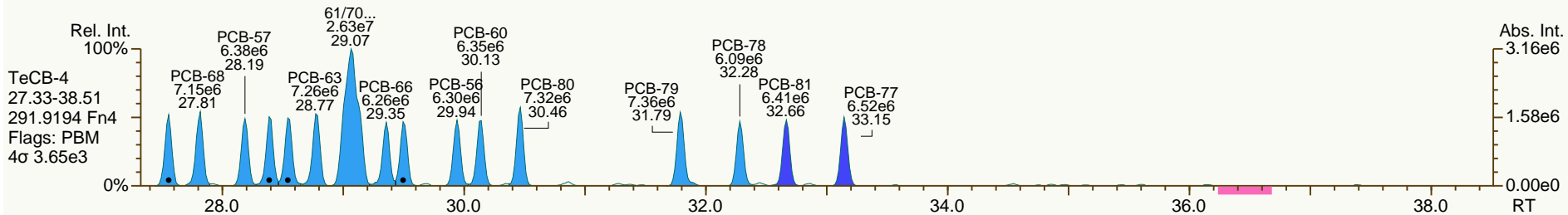
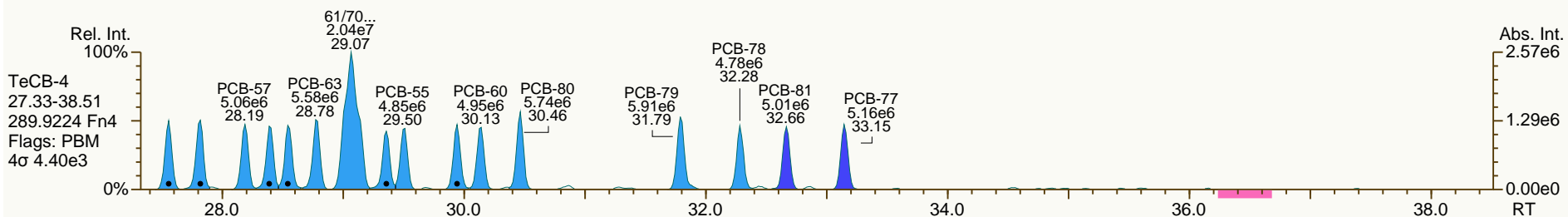
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SGS ID: OPR1\_11883\_PCB-RJ  
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Sample ID: 0\_11883\_OPR001  
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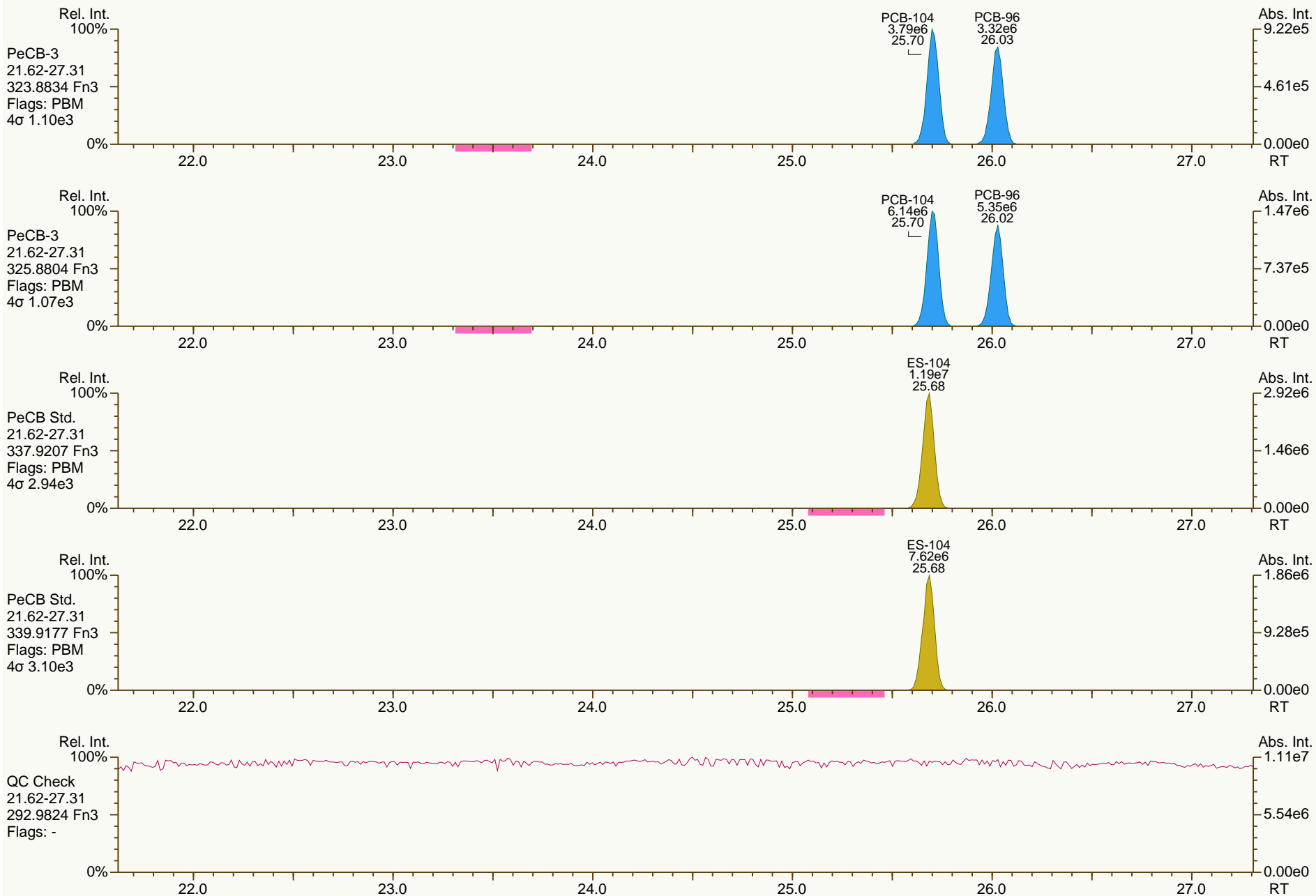
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Sample ID: 0\_11883\_OPR001  
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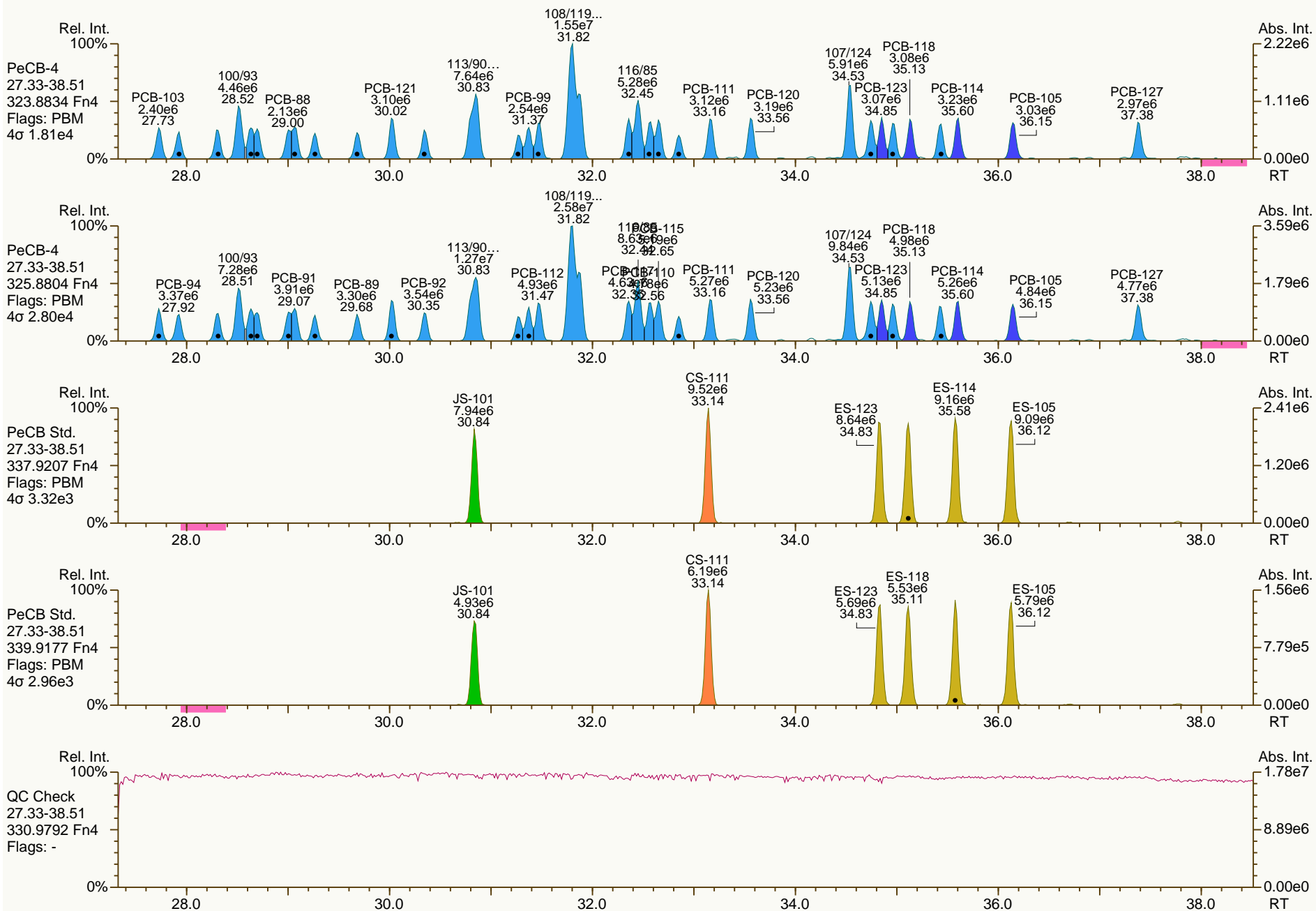
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Sample ID: 0\_11883\_OPR001  
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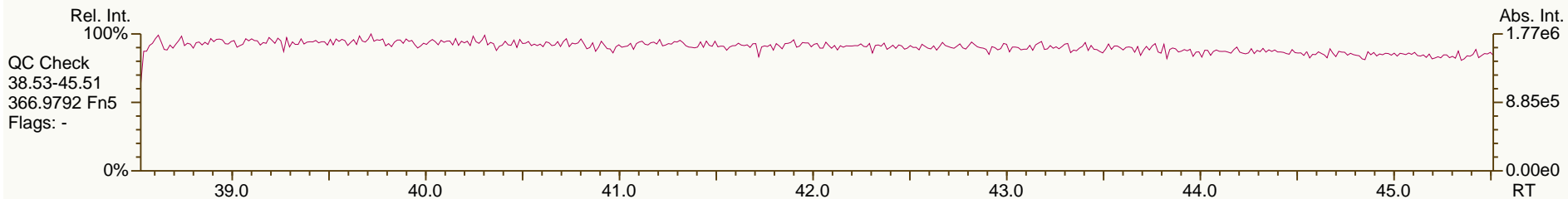
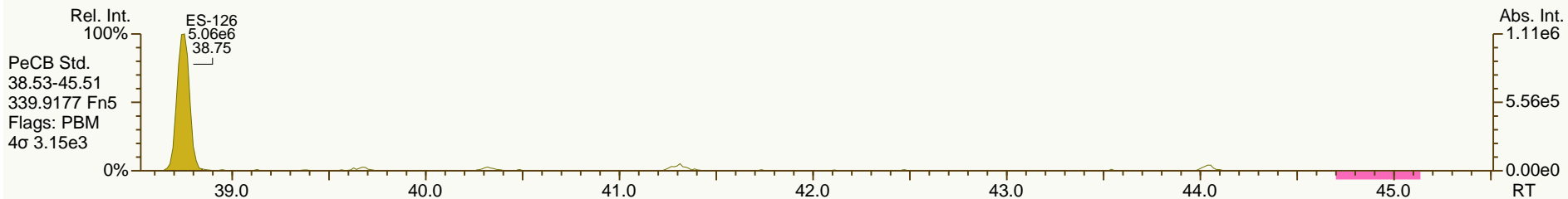
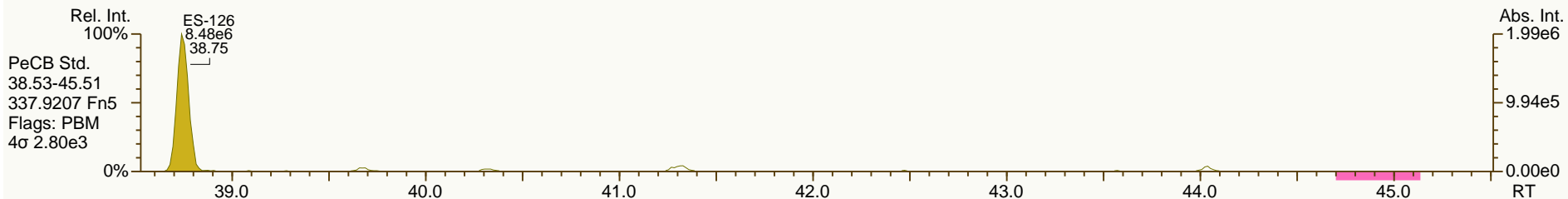
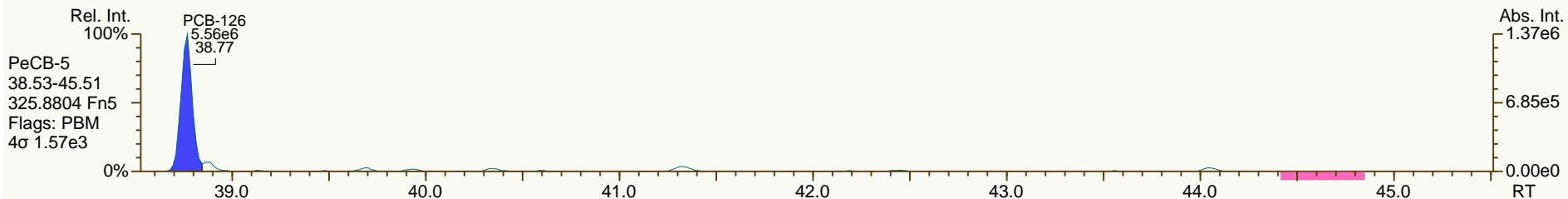
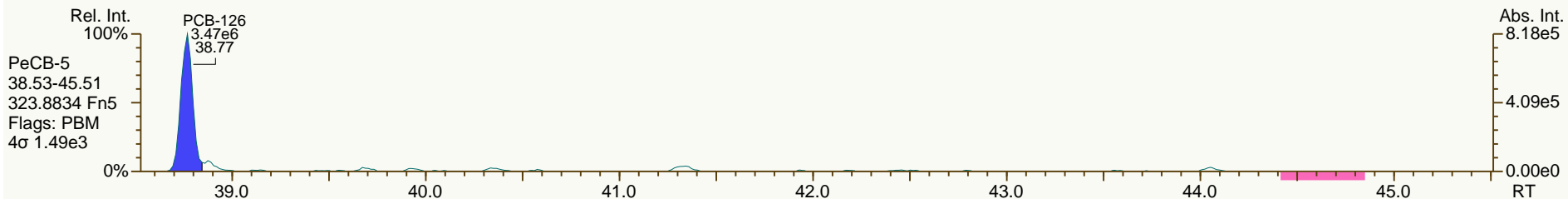
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

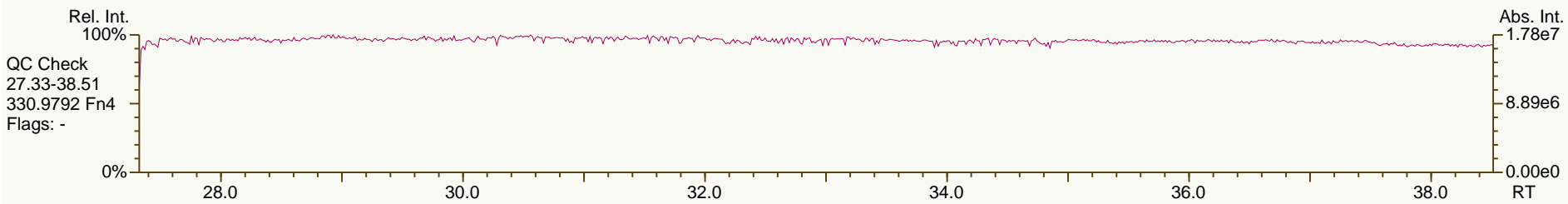
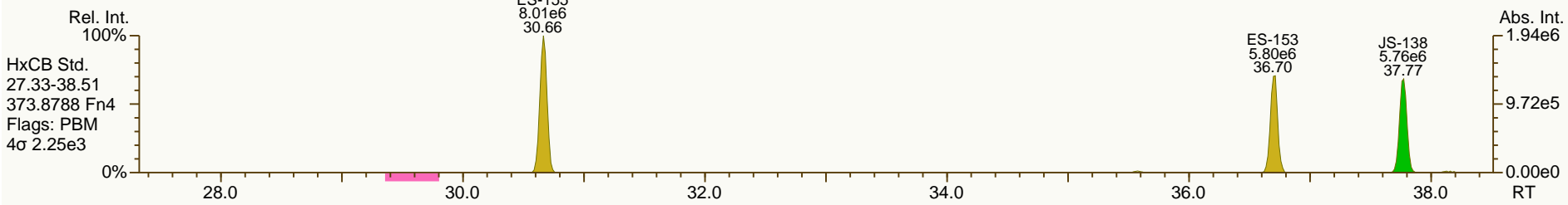
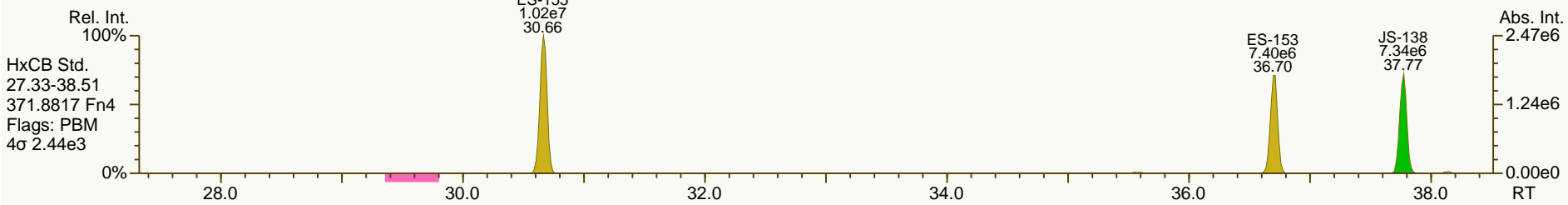
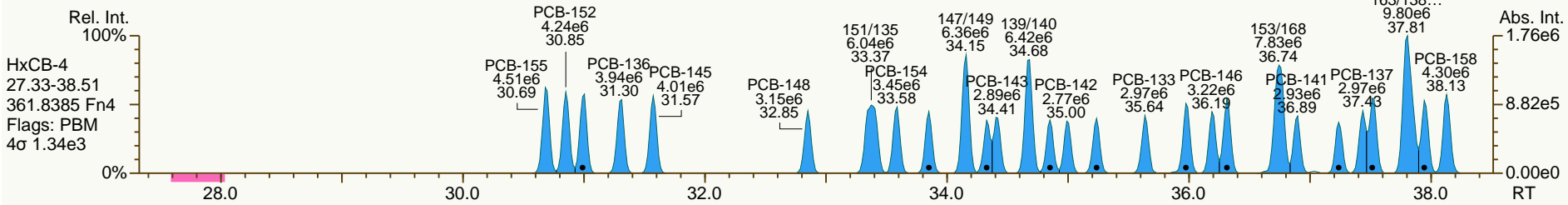
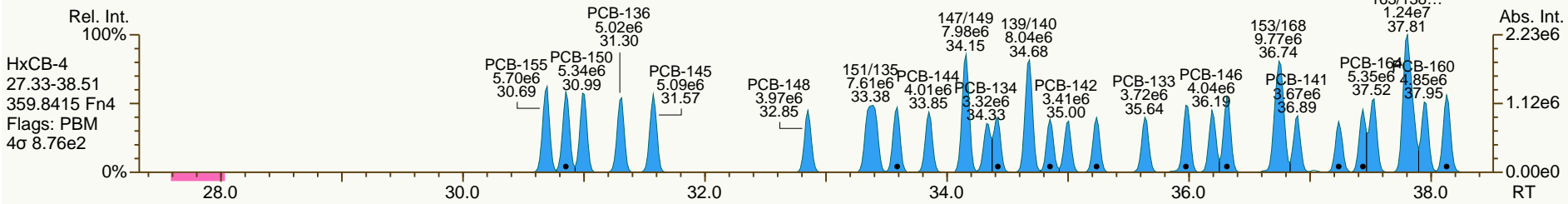
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

Acq: 24-Mar-2014 14:44:33  
 User: CTW Datafile: 140324S05



SGS ID: OPR1\_11883\_PCB-RJ  
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

Acq: 24-Mar-2014 14:44:33  
User: CTW Datafile: 140324S05

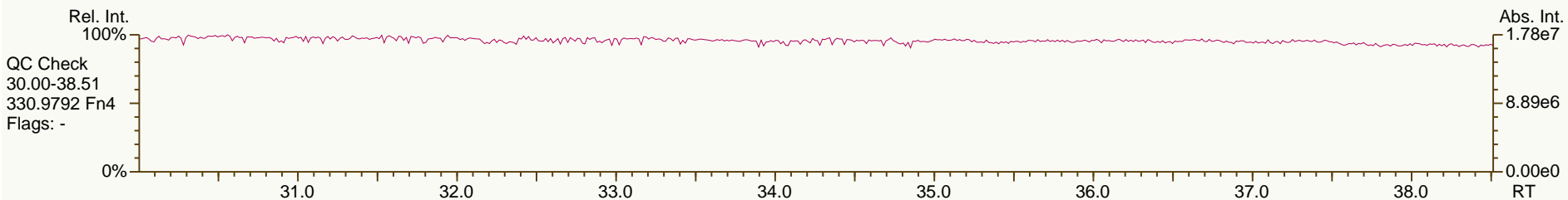
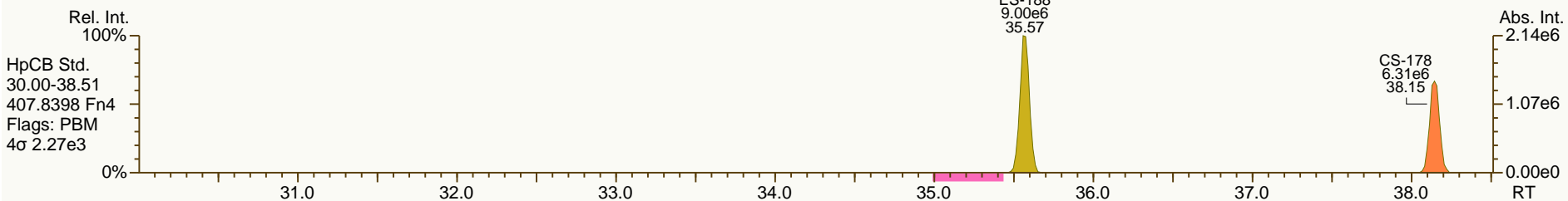
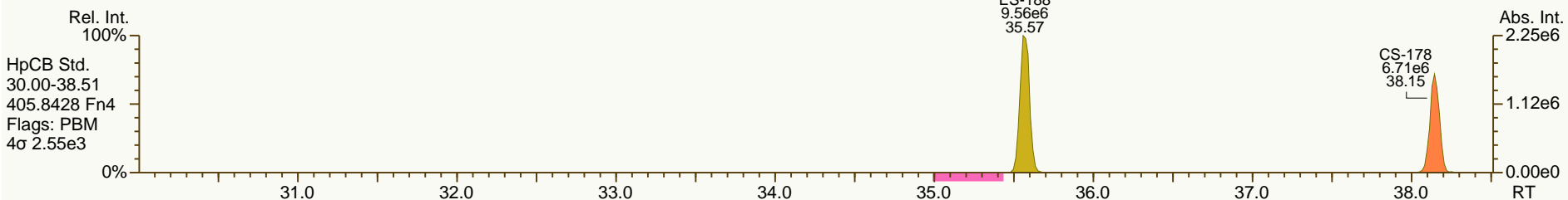
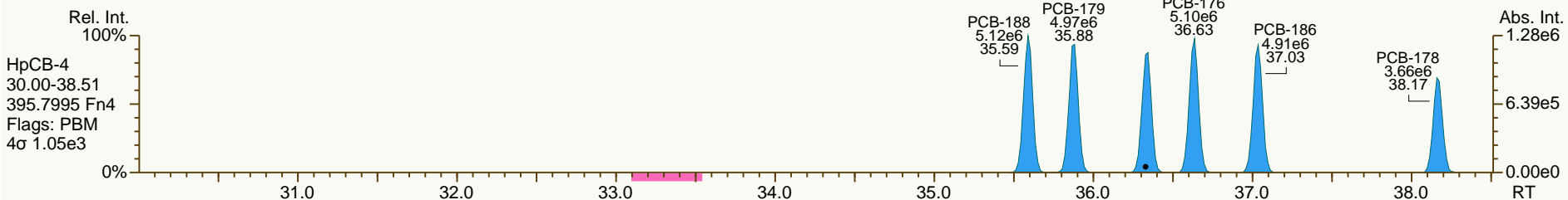
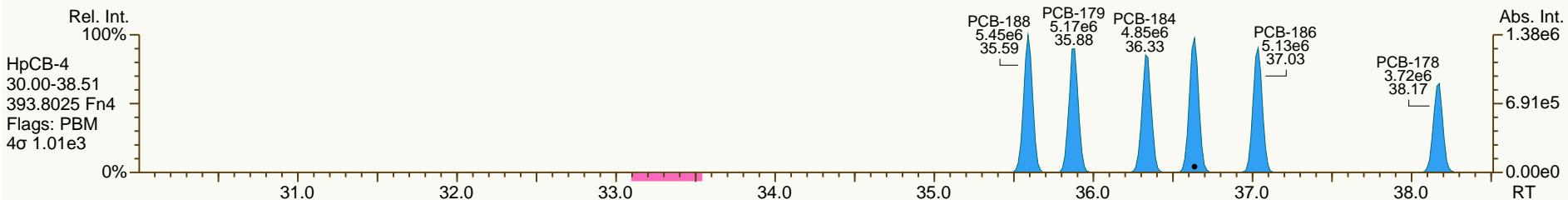




SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

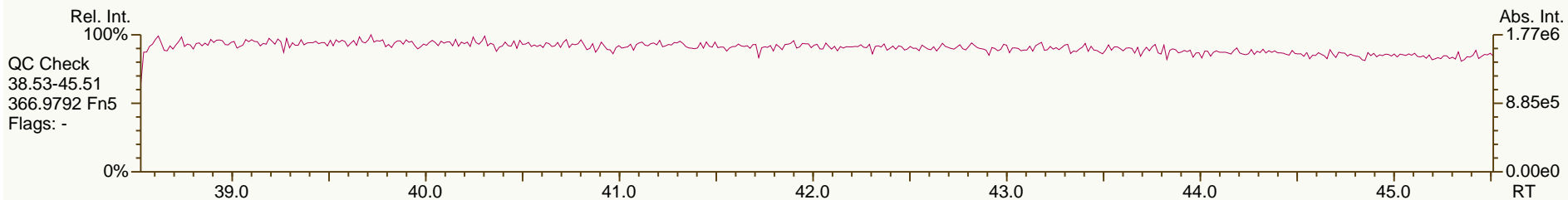
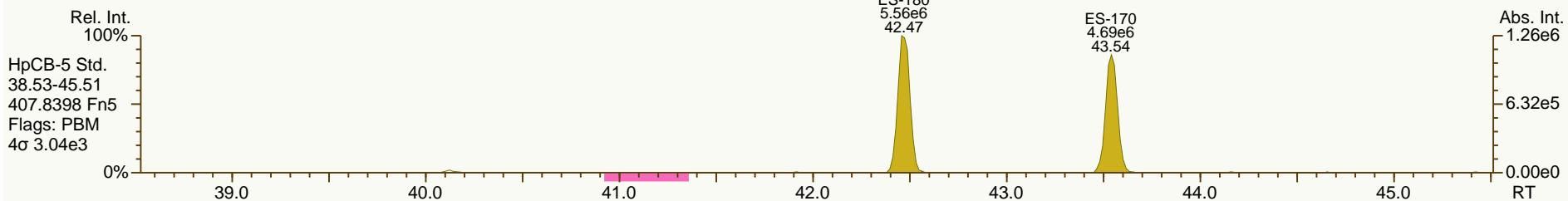
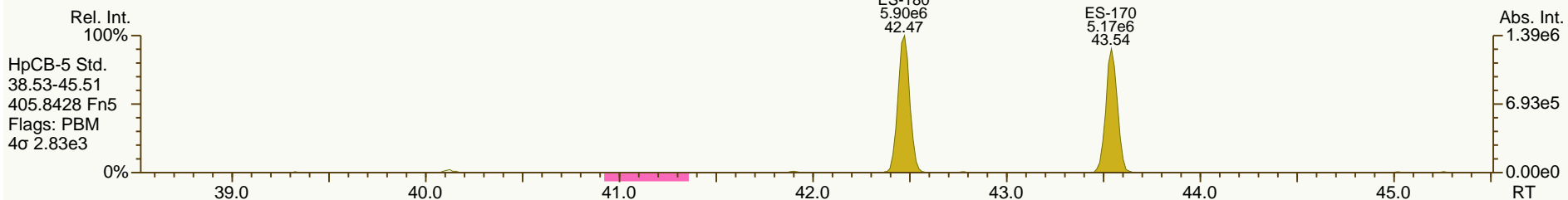
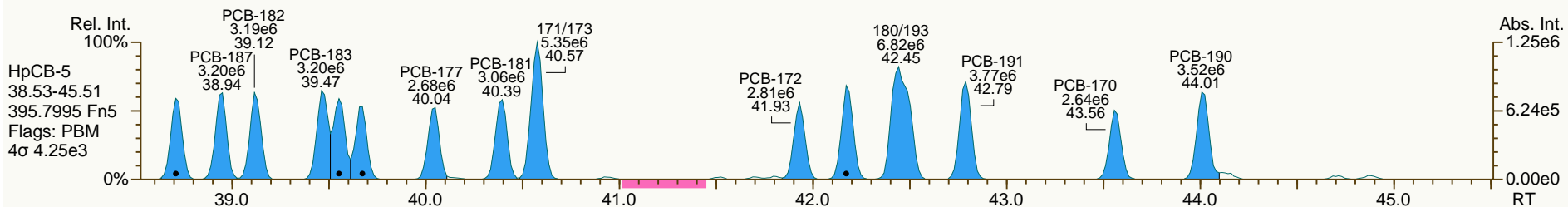
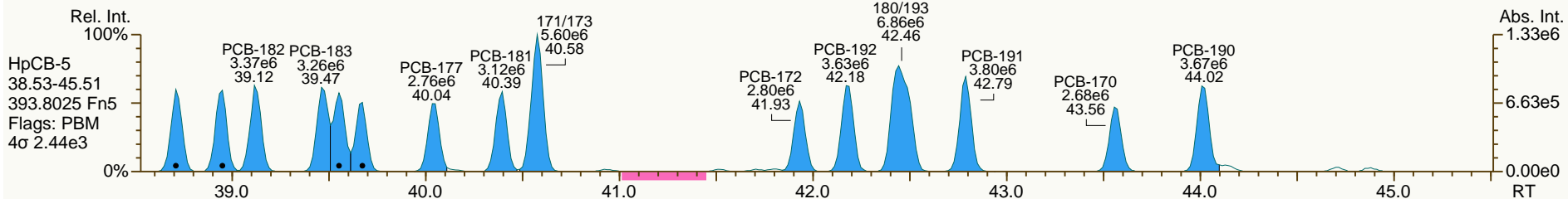
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR El+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

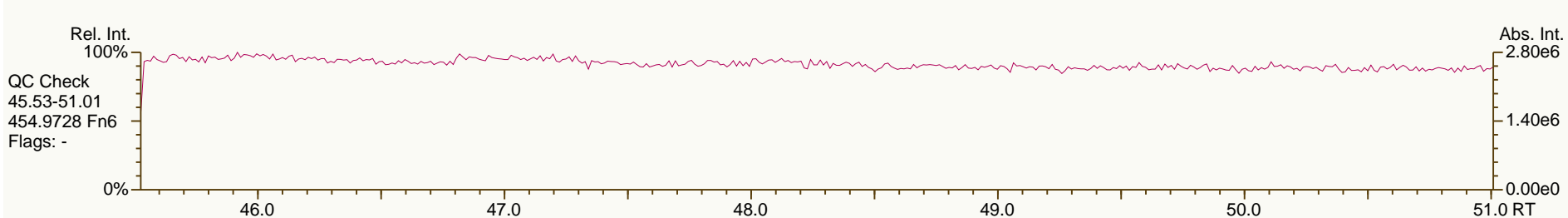
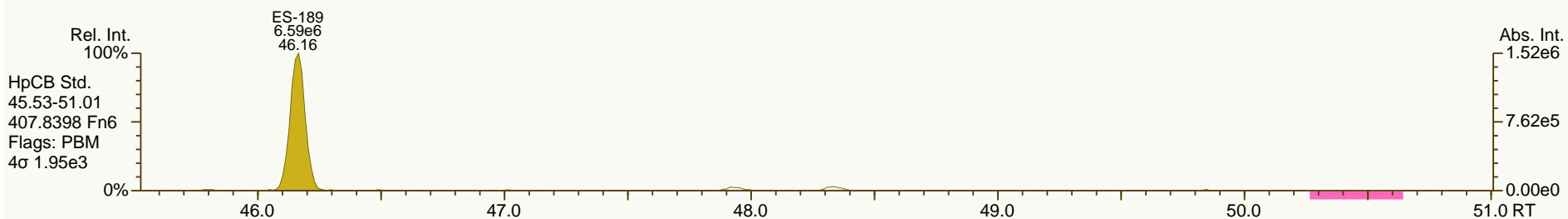
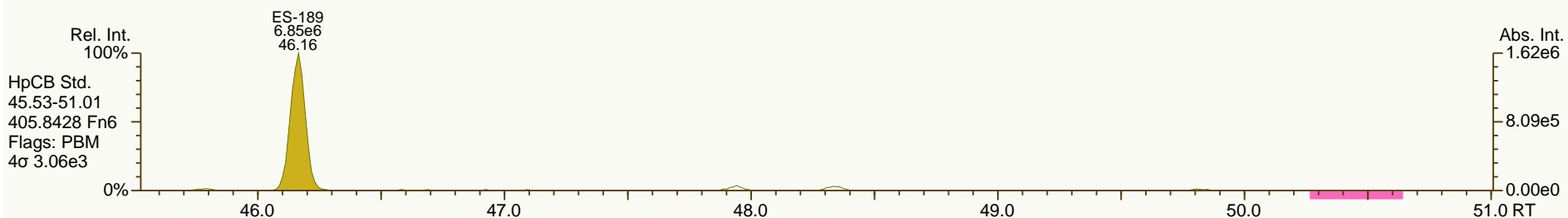
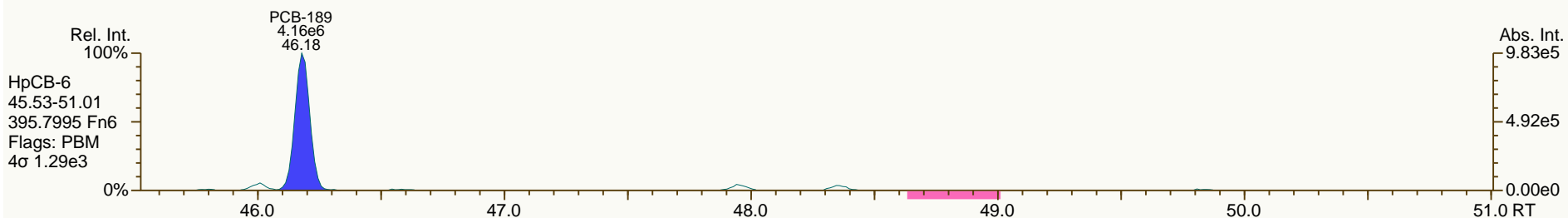
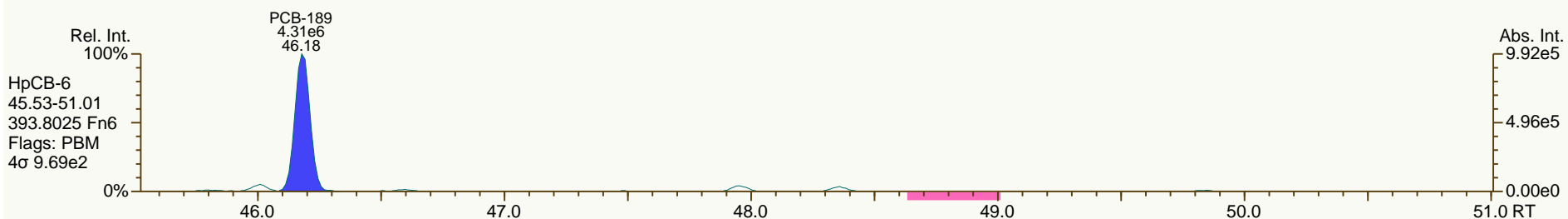
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

Acq: 24-Mar-2014 14:44:33  
 User: CTW Datafile: 140324S05



SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
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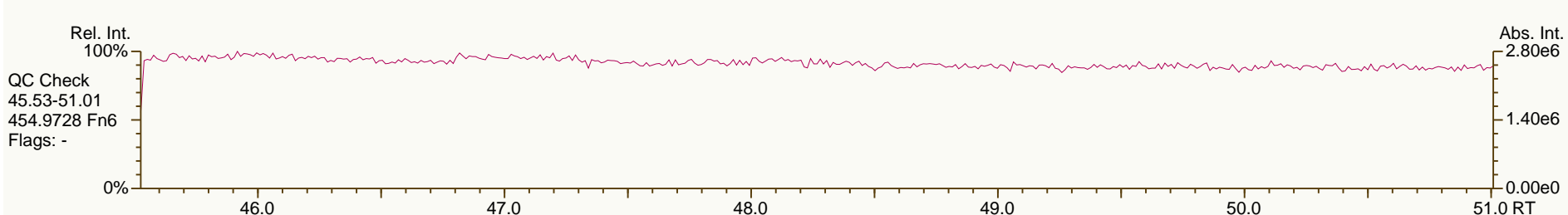
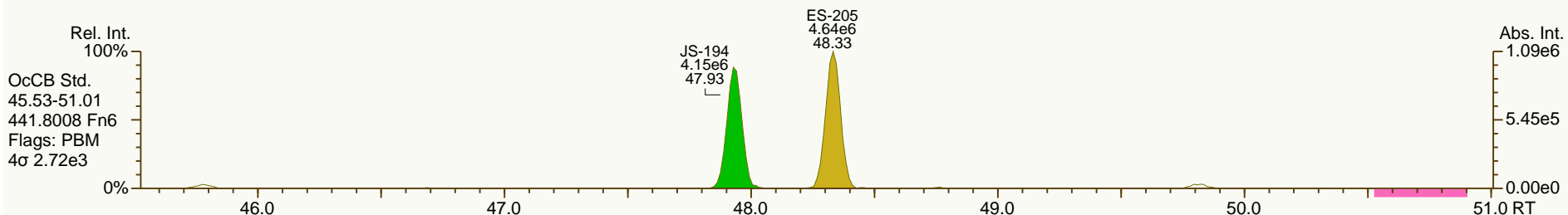
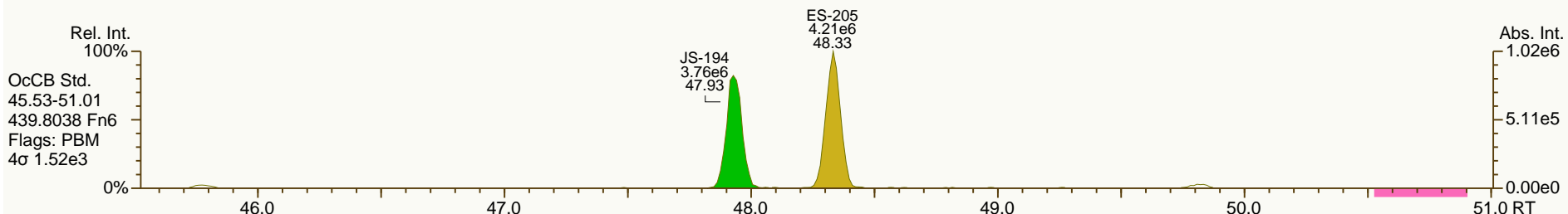
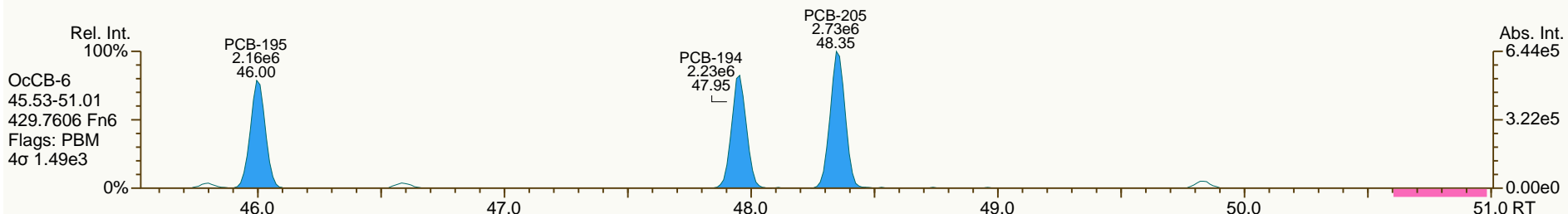
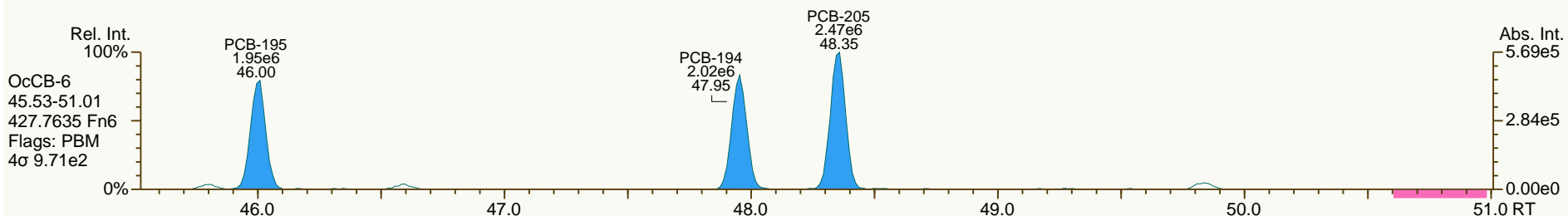
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

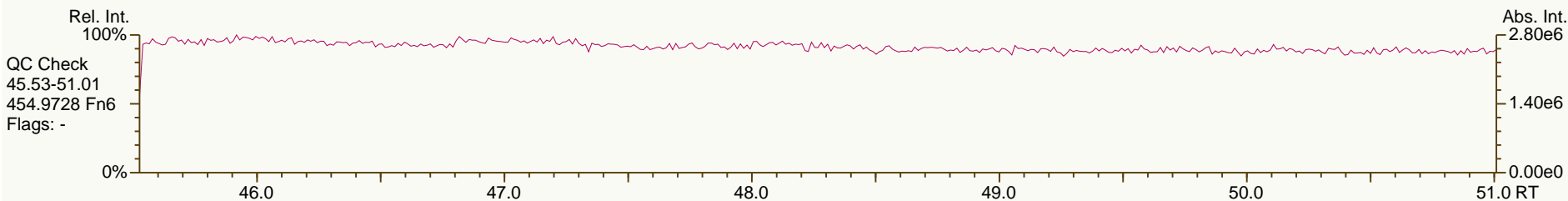
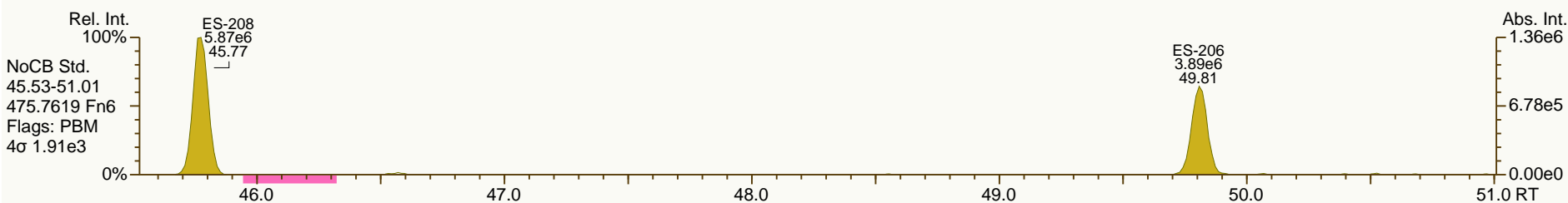
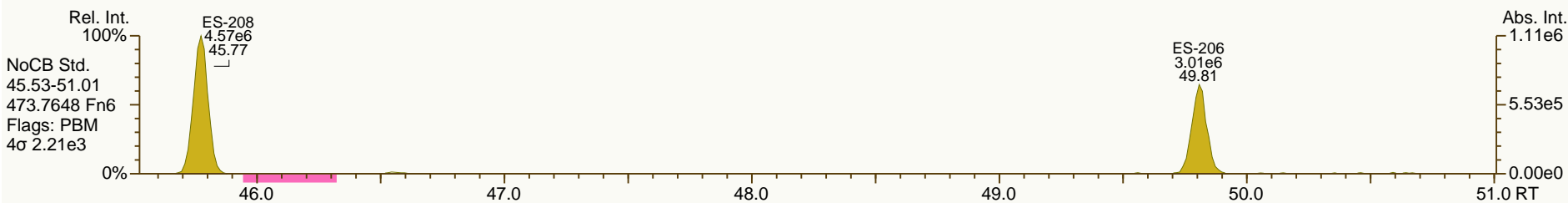
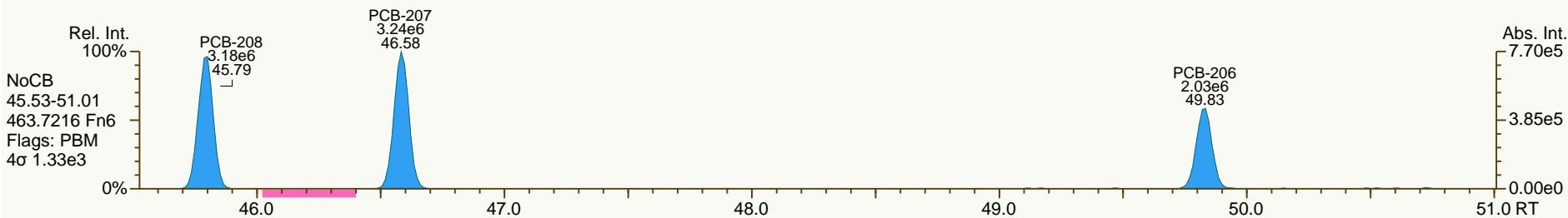
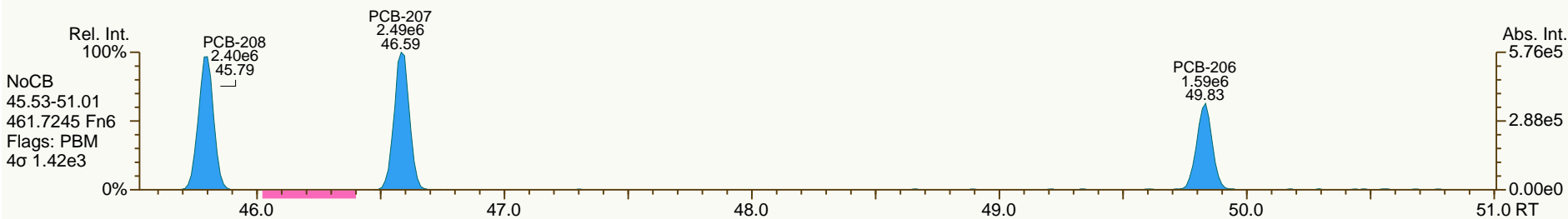
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
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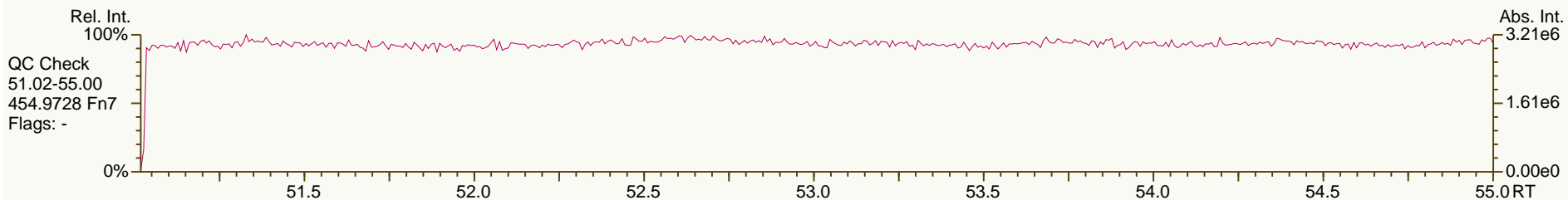
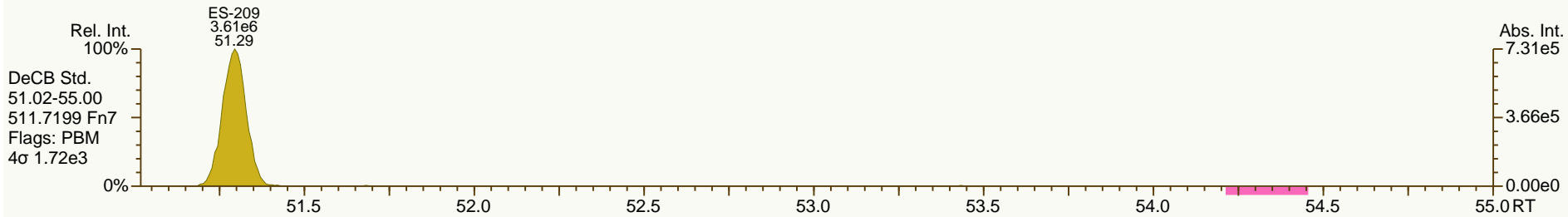
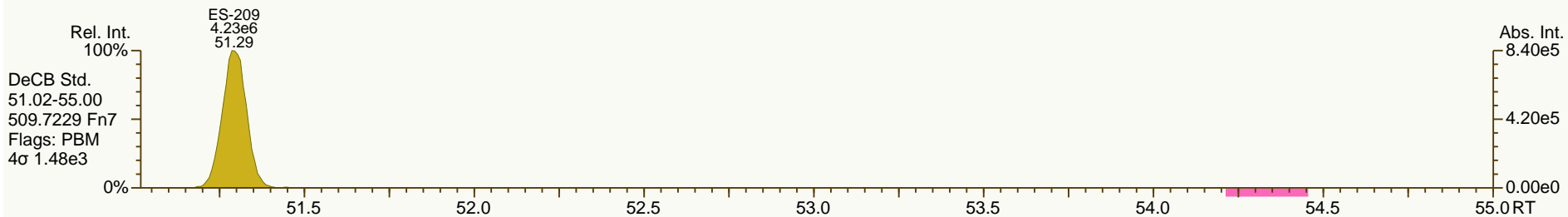
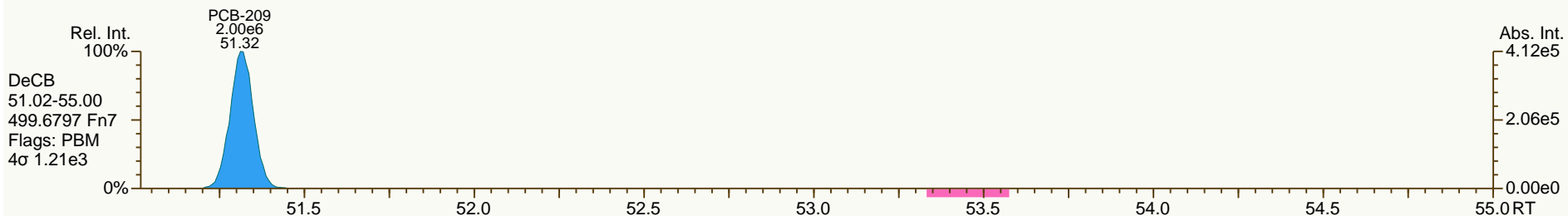
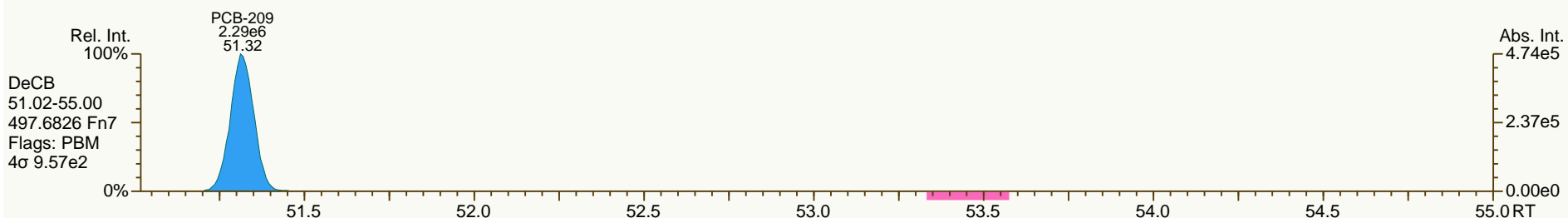
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SGS ID: OPR1\_11883\_PCB-RJ  
 Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: 0\_11883\_OPR001  
 VSIR EI+ Expt: pcb-2011-08 GC: pcb90\_FI Vial: 49

Acq: 24-Mar-2014 14:44:33  
 User: CTW Datafile: 140324S05





1 APRIL 2014

**DELANEY PETERSON  
ANCHOR QEA**

7200 Olive Way, Ste 300  
Seattle WA 98101

t. 206-287-9130  
e. DPeterson@anchorqea.com

**SUBJECT: CERTIFICATE OF RESULTS**

Dear Delaney;

Attached to this narrative are the analytical results for sample(s) submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes information about the project. If applicable, QC annotations below highlight specific analytical observations and assessments made during the sample handling and data interpretation phases.

Results reported relate only to the items tested.

**PROJECT INFORMATION SUMMARY** *(When applicable, see QC Annotations for details)*

Client Project	Patrick Bayou Superfund Ste
SGS Project #	A6504
Analytical Protocol(s)	Method 1668A
No. Samples Submitted	10 (one sample archived)
Additional QC Sample(s)	0
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
Date Received	14-May-2014
Condition Received	good
Temperature upon Receipt (C)	2.1 - 2.8
Extraction within Holding Time	yes
Analysis within Holding Time	yes



**QC ANNOTATIONS:**

1.	Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.
2.	Samples noted as "DISSOLVED" in the sample IDs were filtered with a 0.45 µm filter prior to extraction.

SGS remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at [www.sgs.com/ultraface](http://www.sgs.com/ultraface) and click on the 'Email Us' link or go to our survey [here](#). Thank you for choosing SGS.

Sincerely,

A handwritten signature in black ink, appearing to read 'A. Boehm', with a long horizontal flourish extending to the right.

Digitally signed by Amy Boehm  
Date: 2014.04.01 15:15:03  
-04'00'

Amy J. Boehm  
Senior Project Manager



## APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. <sup>1</sup>
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. <sup>1</sup>
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



## APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

## APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.



## SGS CERTIFICATIONS

California	07255CA
Connecticut	PH-0258
Florida (primary NELAP)	E87634
ISO17025	2726.01
Kansas	E-10330
Louisiana	04115
Maryland (DW only)	299
New Jersey	NC100
New York	11685
North Carolina DENR	481
North Carolina DHHS (DW only)	37776
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029
Texas	T104704260-13-5
Utah	NC009192013-3
Virginia (DW only)	00235
Virginia	460214
Washington State	C913
West Virginia	293

**Sample ID: PB020-1SWMID-140313-N (TOTAL)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.97 L	Sample ID:	A6504_11892_PCB_001	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	7	QC Batch No.:	11892	Date Analyzed:	26-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	123				ES PCB-1	58.8	
PCB-81 344'5'-TeCB	ND	1.71			ES PCB-3	72.1	
PCB-105 233'44'-PeCB	370				ES PCB-4	83.8	
PCB-114 2344'5'-PeCB	21.1				ES PCB-15	95	
PCB-118 23'44'5'-PeCB	702				ES PCB-19	90	
PCB-123 23'44'5'-PeCB	18.8				ES PCB-37	84.2	
PCB-126 33'44'5'-PeCB	5.08			J	ES PCB-54	99	
PCB-156/157 233'44'5'/233'44'5'-HxCB	51.1			C	ES PCB-77	84.5	
PCB-167 23'44'55'-HxCB	16.5				ES PCB-81	82.6	
PCB-169 33'44'55'-HxCB	ND	1.02			ES PCB-104	115	
PCB-189 233'44'55'-HpCB	3.61			J	ES PCB-105	93.2	
					ES PCB-114	90.7	
<b>TEQs (WHO M/H)</b>					ES PCB-118	93.4	
					ES PCB-123	92.5	
ND = 0	0.556			0.556	ES PCB-126	87.6	
ND = 0.5 x DL	0.571			0.571	ES PCB-153	92.4	
ND = DL	0.587			0.587	ES PCB-155	94.4	
					ES PCB-156/157	76.4	
<b>Totals</b>					ES PCB-167	78.1	
Mono-CBs	47.5				ES PCB-169	68.4	
Di-CBs	545			555	ES PCB-170	92.5	
Tri-CBs	5,610				ES PCB-180	94.7	
Tetra-CBs	14,700			14,700	ES PCB-188	110	
Penta-CBs	6,500			6,510	ES PCB-189	94.8	
Hexa-CBs	2,100			2,100	ES PCB-202	99.3	
Hepta-CBs	671				ES PCB-205	86.6	
Octa-CBs	179				ES PCB-206	91.1	
Nona-CBs	163				ES PCB-208	106	
Deca-CB	1,370				ES PCB-209	83	
					CS PCB-28	84.8	
Total PCB (Mono-Deca)	31,900			31,900	CS PCB-111	94.2	
					CS PCB-178	111	

Checkcode: 320-870-RRF


SGS Environmental Services - PCB 2014 Rev. 4.04

Report Created: 31-Mar-2014 18:57 Analyst: CM



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)

Sample ID: PB020-1SWMID-140313-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.97 L			Sample ID: A6504_11892_PCB_001			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 7			QC Batch No.: 11892			Date Analyzed: 26-Mar-2014								
			Units: pg/L			Checkcode: 320-870-RRF			Time Analyzed: 22:02:20								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	34.3		PCB-19	109		PCB-54	6.02	J	PCB-72	14							
PCB-2	2.96	J	PCB-30/18	1,060	C	PCB-50/53	333	C	PCB-68	28.8							
PCB-3	10.2	J	PCB-17	381		PCB-45	323		PCB-57	6.11	J						
			PCB-27	57.7		PCB-51	103		PCB-58	(1.57)							
<b>Conc.</b>	47.5		PCB-24	(1.34)		PCB-46	126		PCB-67	34							
<b>EMPC</b>	47.5		PCB-16	368		PCB-52	2,350		PCB-63	50							
			PCB-32	317		PCB-73	[3.21]	J EMPC	PCB-61/70/74/76	2,650	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	5.75	J	PCB-43	65.1		PCB-66	1,540							
PCB-4	191		PCB-23	(1.66)		PCB-69/49	1,200	C	PCB-55	13.8							
PCB-10	8.35	J	PCB-26/29	172	C	PCB-48	367		PCB-56	703							
PCB-9	11		PCB-25	70.7		PCB-44/47/65	1,950	C	PCB-60	302							
PCB-7	4.37	J	PCB-31	1,110		PCB-59/62/75	143	C	PCB-80	(1.38)							
PCB-6	36.9		PCB-28/20	1,060	C	PCB-42	486		PCB-79	14							
PCB-5	(1.18)		PCB-21/33	382	C	PCB-41	132		PCB-78	(1.72)							
PCB-8	160		PCB-22	295		PCB-71/40	849	C	PCB-81	(1.71)							
PCB-14	(0.983)		PCB-36	(1.6)		PCB-64	773		PCB-77	123							
PCB-11	30.7	B	PCB-39	(1.55)													
PCB-13/12	[10.4]	J EMPC C	PCB-38	(1.71)													
PCB-15	102		PCB-35	19													
			PCB-37	205													
<b>Conc.</b>	545		<b>Conc.</b>	5,610					<b>Conc.</b>	14,700							
<b>EMPC</b>	555		<b>EMPC</b>	5,610					<b>EMPC</b>	14,700							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						6,210			6,220		
						Tetra-Hexa						23,300			23,300		
						Hepta-Deca						2,380			2,380		
						Mono-Deca			31,900			31,900					

Sample ID: PB020-1SWMID-140313-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.455)		PCB-108/119/86/97/125/87	716	C	PCB-155	(0.408)		PCB-165	(0.582)	
PCB-96	20.2		PCB-117	(1.33)		PCB-152	(0.473)		PCB-146	72.2	
PCB-103	11.5		PCB-116/85	240	C	PCB-150	(0.459)		PCB-161	(0.54)	
PCB-94	[10]	J EMPC	PCB-110	1,090		PCB-136	63.9		PCB-153/168	351	C
PCB-95	770		PCB-115	(1.29)		PCB-145	(0.496)		PCB-141	75.4	
PCB-100/93	17.3	J C	PCB-82	167		PCB-148	[1.2]	J EMPC	PCB-130	35.1	
PCB-102	61.6		PCB-111	(1.21)		PCB-151/135	141	C	PCB-137	22.5	
PCB-98	(1.7)		PCB-120	(1.19)		PCB-154	8.48	J	PCB-164	33.9	
PCB-88	(1.72)		PCB-107/124	31.3	C	PCB-144	20.7		PCB-163/138/129	492	C
PCB-91	205		PCB-109	59.5		PCB-147/149	368	C	PCB-160	(0.607)	
PCB-84	330		PCB-123	18.8		PCB-134	31.3		PCB-158	47	
PCB-89	29.7		PCB-106	(1.34)		PCB-143	(0.703)		PCB-128/166	78.2	C
PCB-121	(1.19)		PCB-118	702		PCB-139/140	10	J C	PCB-159	4.27	J
PCB-92	157		PCB-122	15.4		PCB-131	7.86	J	PCB-162	2.15	J
PCB-113/90/101	880	C	PCB-114	21.1		PCB-142	(0.833)		PCB-167	16.5	
PCB-83	54.3		PCB-105	370		PCB-132	159		PCB-156/157	51.1	C
PCB-99	524		PCB-127	(1.37)		PCB-133	8.16	J	PCB-169	(1.02)	
PCB-112	(1.25)		PCB-126	[5.08]	J						
			<b>Conc.</b>	6,500					<b>Conc.</b>	2,100	
			<b>EMPC</b>	6,510					<b>EMPC</b>	2,100	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.543)		PCB-174	80.6		PCB-202	16.7		PCB-208	53.4	
PCB-179	38.4		PCB-177	52.3		PCB-201	8.49	J	PCB-207	49.1	
PCB-184	(0.661)		PCB-181	(1.17)		PCB-204	(0.855)		PCB-206	60.5	
PCB-176	11.5		PCB-171/173	28.6	C	PCB-197	6.82	J			
PCB-186	(0.638)		PCB-172	15.1		PCB-200	4.77	J	<b>Conc.</b>	163	
PCB-178	20.9		PCB-192	(0.986)		PCB-198/199	44.1	C	<b>EMPC</b>	163	
PCB-175	4.5	J	PCB-180/193	157	C	PCB-196	19.7				
PCB-187	105		PCB-191	4.26	J	PCB-203	23.6		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.06)		PCB-170	79.5		PCB-195	15		PCB-209	1,370	
PCB-183	46.3		PCB-190	13.9		PCB-194	36.7				
PCB-185	9.57	J	PCB-189	3.61	J	PCB-205	3.03	J			
			<b>Conc.</b>	671		<b>Conc.</b>	179				
			<b>EMPC</b>	671		<b>EMPC</b>	179				

**Sample ID: PB031.1-1SWMID-140313-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.98 L	Sample ID:	A6504_11892_PCB_002	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	6	QC Batch No.:	11892	Date Analyzed:	26-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	83.4				ES PCB-1	58.4	
PCB-81 344'5'-TeCB	3.64			J	ES PCB-3	71.2	
PCB-105 233'44'-PeCB	268				ES PCB-4	82	
PCB-114 2344'5'-PeCB	15.5				ES PCB-15	100	
PCB-118 23'44'5'-PeCB	500				ES PCB-19	93.1	
PCB-123 23'44'5'-PeCB	12.3				ES PCB-37	88.3	
PCB-126 33'44'5'-PeCB	ND	1.04			ES PCB-54	99	
PCB-156/157 233'44'5'/233'44'5'-HxCB	35.1			C	ES PCB-77	89.4	
PCB-167 23'44'55'-HxCB	10.9				ES PCB-81	88.4	
PCB-169 33'44'55'-HxCB	ND	1.08			ES PCB-104	117	
PCB-189 233'44'55'-HpCB	EMPC		2.05	J	ES PCB-105	97.7	
					ES PCB-114	95.8	
<b>TEQs (WHO M/H)</b>					ES PCB-118	98.7	
					ES PCB-123	97.4	
ND = 0	0.0347		0.0348		ES PCB-126	96.7	
ND = 0.5 x DL	0.103		0.103		ES PCB-153	94.3	
ND = DL	0.171		0.171		ES PCB-155	96.2	
					ES PCB-156/157	78.4	
<b>Totals</b>					ES PCB-167	80.4	
Mono-CBs	31.9				ES PCB-169	74.6	
Di-CBs	467		475		ES PCB-170	95.3	
Tri-CBs	4,690				ES PCB-180	97.7	
Tetra-CBs	11,100		11,100		ES PCB-188	113	
Penta-CBs	4,740				ES PCB-189	98.8	
Hexa-CBs	1,400		1,420		ES PCB-202	104	
Hepta-CBs	455		459		ES PCB-205	91	
Octa-CBs	90.5		105		ES PCB-206	96.1	
Nona-CBs	64.6				ES PCB-208	109	
Deca-CB	580				ES PCB-209	89	
					CS PCB-28	92.1	
Total PCB (Mono-Deca)	23,600		23,600		CS PCB-111	103	
					CS PCB-178	118	

Checkcode: 645-564-GVL

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Sample ID: PB031.1-1SWMID-140313-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.98 L			Sample ID: A6504_11892_PCB_002			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 6			QC Batch No.: 11892			Date Analyzed: 26-Mar-2014								
			Units: pg/L			Checkcode: 645-564-GVL			Time Analyzed: 22:57:34								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	25.1		PCB-19	103		PCB-54	5.71	J	PCB-72	9.5	J						
PCB-2	(1.29)		PCB-30/18	918	C	PCB-50/53	266	C	PCB-68	32.2							
PCB-3	6.72	J	PCB-17	316		PCB-45	261		PCB-57	4.99	J						
			PCB-27	51		PCB-51	85.3		PCB-58	3.02	J						
<b>Conc.</b>	31.9		PCB-24	(1.19)		PCB-46	98.3		PCB-67	25.9							
<b>EMPC</b>	31.9		PCB-16	324		PCB-52	1,790		PCB-63	38.9							
			PCB-32	274		PCB-73	[2.15]	J EMPC	PCB-61/70/74/76	1,940	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	4.47	J	PCB-43	54.2		PCB-66	1,120							
PCB-4	169		PCB-23	(1.63)		PCB-69/49	887	C	PCB-55	(1.79)							
PCB-10	7.09	J	PCB-26/29	140	C	PCB-48	295		PCB-56	519							
PCB-9	[7.97]	J EMPC	PCB-25	59.8		PCB-44/47/65	1,470	C	PCB-60	240							
PCB-7	3.84	J	PCB-31	903		PCB-59/62/75	107	C	PCB-80	(1.49)							
PCB-6	29		PCB-28/20	879	C	PCB-42	367		PCB-79	8.84	J						
PCB-5	(1.55)		PCB-21/33	296	C	PCB-41	113		PCB-78	(1.85)							
PCB-8	130		PCB-22	245		PCB-71/40	658	C	PCB-81	3.64	J						
PCB-14	(1.29)		PCB-36	(1.57)		PCB-64	589		PCB-77	83.4							
PCB-11	23.5	B	PCB-39	(1.51)													
PCB-13/12	10.6	J C	PCB-38	(1.67)													
PCB-15	94.6		PCB-35	12.9													
			PCB-37	162													
<b>Conc.</b>	467		<b>Conc.</b>	4,690					<b>Conc.</b>	11,100							
<b>EMPC</b>	475		<b>EMPC</b>	4,690					<b>EMPC</b>	11,100							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						5,190			5,200		
						Tetra-Hexa						17,200			17,200		
						Hepta-Deca						1,190			1,210		
						Mono-Deca			23,600			23,600					

Sample ID: PB031.1-1SWMID-140313-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.591)		PCB-108/119/86/97/125/87	523	C	PCB-155	(0.437)		PCB-165	(0.654)	
PCB-96	15.7		PCB-117	13.8		PCB-152	(0.507)		PCB-146	46.7	
PCB-103	7.16	J	PCB-116/85	167	C	PCB-150	(0.492)		PCB-161	(0.607)	
PCB-94	8.32	J	PCB-110	792		PCB-136	42.9		PCB-153/168	234	C
PCB-95	570		PCB-115	(1.2)		PCB-145	(0.531)		PCB-141	54.4	
PCB-100/93	12.1	J C	PCB-82	125		PCB-148	(0.769)		PCB-130	24.4	
PCB-102	46.9		PCB-111	(1.12)		PCB-151/135	96.8	C	PCB-137	12.5	
PCB-98	(1.58)		PCB-120	(1.1)		PCB-154	[4.67]	J EMPC	PCB-164	24.1	
PCB-88	(1.59)		PCB-107/124	23	C	PCB-144	13.3		PCB-163/138/129	335	C
PCB-91	148		PCB-109	43.3		PCB-147/149	247	C	PCB-160	(0.682)	
PCB-84	244		PCB-123	12.3		PCB-134	21.4		PCB-158	31.1	
PCB-89	23.8		PCB-106	(1.24)		PCB-143	(0.79)		PCB-128/166	52.7	C
PCB-121	(1.1)		PCB-118	500		PCB-139/140	[6.05]	J EMPC C	PCB-159	[2.91]	J EMPC
PCB-92	114		PCB-122	11.4		PCB-131	5.15	J	PCB-162	(0.968)	
PCB-113/90/101	642	C	PCB-114	15.5		PCB-142	(0.937)		PCB-167	10.9	
PCB-83	44.2		PCB-105	268		PCB-132	111		PCB-156/157	35.1	C
PCB-99	367		PCB-127	(1.3)		PCB-133	5.21	J	PCB-169	(1.08)	
PCB-112	(1.16)		PCB-126	(1.04)							
			<b>Conc.</b>	4,740					<b>Conc.</b>	1,400	
			<b>EMPC</b>	4,740					<b>EMPC</b>	1,420	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.455)		PCB-174	53.9		PCB-202	9.14	J	PCB-208	20.5	
PCB-179	26.2		PCB-177	37.5		PCB-201	4.8	J	PCB-207	19.2	
PCB-184	(0.554)		PCB-181	(1.02)		PCB-204	(0.732)		PCB-206	24.9	
PCB-176	6.5	J	PCB-171/173	20	J C	PCB-197	(0.697)				
PCB-186	(0.534)		PCB-172	10	J	PCB-200	(0.7)		<b>Conc.</b>	64.6	
PCB-178	12.9		PCB-192	(0.857)		PCB-198/199	28.9	C	<b>EMPC</b>	64.6	
PCB-175	3.36	J	PCB-180/193	109	C	PCB-196	13				
PCB-187	73.1		PCB-191	[1.74]	J EMPC	PCB-203	[14.6]	EMPC	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.921)		PCB-170	54		PCB-195	10.2		PCB-209	580	
PCB-183	32.1		PCB-190	11.6		PCB-194	24.5				
PCB-185	5.26	J	PCB-189	[2.05]	J EMPC	PCB-205	(1.32)				
			<b>Conc.</b>	455		<b>Conc.</b>	90.5				
			<b>EMPC</b>	459		<b>EMPC</b>	105				

**Sample ID: PB047.3-1SWMID-140313-N (TOTAL)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.97 L	Sample ID:	A6504_11892_PCB_003	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	6	QC Batch No.:	11892	Date Analyzed:	26-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	43.7				ES PCB-1	57.4	
PCB-81 344'5'-TeCB	ND	1.88			ES PCB-3	68.1	
PCB-105 233'44'-PeCB	134				ES PCB-4	78.9	
PCB-114 2344'5'-PeCB	7.32			J	ES PCB-15	95.8	
PCB-118 23'44'5'-PeCB	256				ES PCB-19	89.8	
PCB-123 23'44'5'-PeCB	7.24			J	ES PCB-37	84.5	
PCB-126 33'44'5'-PeCB	ND	1.03			ES PCB-54	94.4	
PCB-156/157 233'44'5'/233'44'5'-HxCB	18.9			J C	ES PCB-77	85.1	
PCB-167 23'44'55'-HxCB	6.35			J	ES PCB-81	85.4	
PCB-169 33'44'55'-HxCB	ND	1.03			ES PCB-104	109	
PCB-189 233'44'55'-HpCB	1.75			J	ES PCB-105	89.8	
					ES PCB-114	90.5	
<b>TEQs (WHO M/H)</b>					ES PCB-118	91.4	
					ES PCB-123	90.8	
ND = 0	0.0173		0.0173		ES PCB-126	91.8	
ND = 0.5 x DL	0.0842		0.0842		ES PCB-153	92.3	
ND = DL	0.151		0.151		ES PCB-155	91.8	
					ES PCB-156/157	76.6	
<b>Totals</b>					ES PCB-167	78.6	
Mono-CBs	25.9		29.7		ES PCB-169	72.9	
Di-CBs	231		266		ES PCB-170	91.4	
Tri-CBs	2,020				ES PCB-180	93.1	
Tetra-CBs	5,520		5,520		ES PCB-188	109	
Penta-CBs	2,540		2,550		ES PCB-189	93.2	
Hexa-CBs	796		817		ES PCB-202	98.8	
Hepta-CBs	276				ES PCB-205	84.4	
Octa-CBs	41.3		63.9		ES PCB-206	89.2	
Nona-CBs	28.6				ES PCB-208	104	
Deca-CB	223				ES PCB-209	79.3	
					CS PCB-28	86.3	
Total PCB (Mono-Deca)	11,700		11,800		CS PCB-111	95	
					CS PCB-178	108	

Checkcode: 786-548-GYQ


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USA

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Sample ID: PB047.3-1SWMID-140313-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.97 L			Sample ID: A6504_11892_PCB_003			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 6			QC Batch No.: 11892			Date Analyzed: 26-Mar-2014								
			Units: pg/L			Checkcode: 786-548-GYQ			Time Analyzed: 23:52:48								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	17.8		PCB-19	57.3		PCB-54	3.89	J	PCB-72	4.88	J						
PCB-2	[3.83]	J EMPC	PCB-30/18	370	C	PCB-50/53	141	C	PCB-68	13.2							
PCB-3	8.08	J	PCB-17	140		PCB-45	117		PCB-57	2.26	J						
			PCB-27	24.5		PCB-51	47.8		PCB-58	(1.73)							
<b>Conc.</b>	25.9		PCB-24	(1.5)		PCB-46	51.9		PCB-67	11.9							
<b>EMPC</b>	29.7		PCB-16	131		PCB-52	912		PCB-63	18.5							
			PCB-32	123		PCB-73	2.66	J	PCB-61/70/74/76	953	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	2.22	J	PCB-43	27		PCB-66	541							
PCB-4	100		PCB-23	(1.63)		PCB-69/49	456	C	PCB-55	5.1	J						
PCB-10	5.33	J	PCB-26/29	63	C	PCB-48	139		PCB-56	252							
PCB-9	[4.31]	J EMPC	PCB-25	27.4		PCB-44/47/65	770	C	PCB-60	106							
PCB-7	(1.49)		PCB-31	390		PCB-59/62/75	51.6	C	PCB-80	(1.53)							
PCB-6	[12.3]	EMPC	PCB-28/20	397	C	PCB-42	184		PCB-79	[4.02]	J EMPC						
PCB-5	(1.62)		PCB-21/33	109	C	PCB-41	44.1		PCB-78	(1.9)							
PCB-8	58.6		PCB-22	103		PCB-71/40	330	C	PCB-81	(1.88)							
PCB-14	(1.35)		PCB-36	(1.57)		PCB-64	289		PCB-77	43.7							
PCB-11	[18.8]	B EMPC	PCB-39	4.11	J												
PCB-13/12	7.53	J C	PCB-38	(1.68)													
PCB-15	58.9		PCB-35	7.35	J												
			PCB-37	71.5													
<b>Conc.</b>	231		<b>Conc.</b>	2,020					<b>Conc.</b>	5,520							
<b>EMPC</b>	266		<b>EMPC</b>	2,020					<b>EMPC</b>	5,520							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						2,280			2,320		
						Tetra-Hexa						8,850			8,890		
						Hepta-Deca						569			592		
						Mono-Deca			11,700			11,800					

Sample ID: PB047.3-1SWMID-140313-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.593)		PCB-108/119/86/97/125/87	280	C	PCB-155	(0.488)		PCB-165	(0.673)	
PCB-96	9.67	J	PCB-117	(1.39)		PCB-152	(0.565)		PCB-146	28.8	
PCB-103	[4.47]	J EMPC	PCB-116/85	98.2	C	PCB-150	(0.549)		PCB-161	(0.624)	
PCB-94	5.62	J	PCB-110	419		PCB-136	25.4		PCB-153/168	140	C
PCB-95	324		PCB-115	(1.35)		PCB-145	(0.592)		PCB-141	29.7	
PCB-100/93	(1.73)	C	PCB-82	64		PCB-148	(0.79)		PCB-130	[11.7]	EMPC
PCB-102	23.6		PCB-111	(1.26)		PCB-151/135	57.5	C	PCB-137	6.78	J
PCB-98	(1.77)		PCB-120	(1.24)		PCB-154	3.18	J	PCB-164	12.9	
PCB-88	(1.79)		PCB-107/124	12.7	J C	PCB-144	8.03	J	PCB-163/138/129	191	C
PCB-91	84.3		PCB-109	22.8		PCB-147/149	146	C	PCB-160	(0.701)	
PCB-84	139		PCB-123	7.24	J	PCB-134	[10]	J EMPC	PCB-158	16.8	
PCB-89	12.4		PCB-106	(1.4)		PCB-143	(0.812)		PCB-128/166	30.6	C
PCB-121	(1.24)		PCB-118	256		PCB-139/140	4.1	J C	PCB-159	(0.926)	
PCB-92	66.7		PCB-122	[4.91]	J EMPC	PCB-131	3.21	J	PCB-162	(0.93)	
PCB-113/90/101	352	C	PCB-114	7.32	J	PCB-142	(0.963)		PCB-167	6.35	J
PCB-83	19.7		PCB-105	134		PCB-132	63.4		PCB-156/157	18.9	J C
PCB-99	200		PCB-127	(1.4)		PCB-133	3.38	J	PCB-169	(1.03)	
PCB-112	(1.31)		PCB-126	(1.03)							
			<b>Conc.</b>	2,540					<b>Conc.</b>	796	
			<b>EMPC</b>	2,550					<b>EMPC</b>	817	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.585)		PCB-174	31		PCB-202	4.58	J	PCB-208	8.41	J
PCB-179	16.5		PCB-177	22.8		PCB-201	2.84	J	PCB-207	7.92	J
PCB-184	(0.713)		PCB-181	(1.49)		PCB-204	(0.917)		PCB-206	12.3	
PCB-176	4.53	J	PCB-171/173	12	J C	PCB-197	(0.874)				
PCB-186	(0.688)		PCB-172	6.34	J	PCB-200	(0.877)		<b>Conc.</b>	28.6	
PCB-178	8.13	J	PCB-192	(1.25)		PCB-198/199	19.8	J C	<b>EMPC</b>	28.6	
PCB-175	(1.47)		PCB-180/193	67.7	C	PCB-196	7.84	J			
PCB-187	45.1		PCB-191	1.27	J	PCB-203	[8.63]	J EMPC	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.34)		PCB-170	30.1		PCB-195	6.21	J	PCB-209	223	
PCB-183	19.9		PCB-190	6.33	J	PCB-194	[14]	EMPC			
PCB-185	2.92	J	PCB-189	1.75	J	PCB-205	(1.35)				
			<b>Conc.</b>	276		<b>Conc.</b>	41.3				
			<b>EMPC</b>	276		<b>EMPC</b>	63.9				

**Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.97 L	Sample ID:	A6504_11892_PCB_004	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	7	QC Batch No.:	11892	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	298				ES PCB-1	56.8	
PCB-81 344'5'-TeCB	15.4				ES PCB-3	69.5	
PCB-105 233'44'-PeCB	977				ES PCB-4	83.2	
PCB-114 2344'5'-PeCB	56				ES PCB-15	98.3	
PCB-118 23'44'5'-PeCB	1,660				ES PCB-19	93.1	
PCB-123 23'44'5'-PeCB	48.8				ES PCB-37	87.8	
PCB-126 33'44'5'-PeCB	10.7				ES PCB-54	100	
PCB-156/157 233'44'5'/233'44'5'-HxCB	108			C	ES PCB-77	89	
PCB-167 23'44'55'-HxCB	31				ES PCB-81	87.8	
PCB-169 33'44'55'-HxCB	ND	1.11			ES PCB-104	111	
PCB-189 233'44'55'-HpCB	EMPC		5.03	J	ES PCB-105	93.2	
					ES PCB-114	93.1	
<b>TEQs (WHO M/H)</b>					ES PCB-118	95.4	
					ES PCB-123	94.1	
ND = 0	1.19		1.19		ES PCB-126	92.1	
ND = 0.5 x DL	1.21		1.21		ES PCB-153	94	
ND = DL	1.23		1.23		ES PCB-155	93.3	
					ES PCB-156/157	77.8	
<b>Totals</b>					ES PCB-167	79	
Mono-CBs	33.7		41.4		ES PCB-169	73.1	
Di-CBs	747				ES PCB-170	95.8	
Tri-CBs	10,400				ES PCB-180	97.8	
Tetra-CBs	32,500		32,500		ES PCB-188	110	
Penta-CBs	14,900				ES PCB-189	98.6	
Hexa-CBs	3,730		3,780		ES PCB-202	99.7	
Hepta-CBs	1,070		1,080		ES PCB-205	89.5	
Octa-CBs	253				ES PCB-206	93.3	
Nona-CBs	85.4				ES PCB-208	108	
Deca-CB	545				ES PCB-209	83.6	
					CS PCB-28	87.3	
Total PCB (Mono-Deca)	64,300		64,400		CS PCB-111	92.8	
					CS PCB-178	111	

Checkcode: 848-343-NKY


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Wilmington  
North Carolina 28405  
USA

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Sample ID: PB056_C-1SWMID-140313-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.97 L			Sample ID: A6504_11892_PCB_004			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 7			QC Batch No.: 11892			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 848-343-NKY			Time Analyzed: 00:47:55								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	33.7		PCB-19	155		PCB-54	9.82	J	PCB-72	22.6							
PCB-2	(1.36)		PCB-30/18	1,790	C	PCB-50/53	690	C	PCB-68	30.5							
PCB-3	[7.73]	J EMPC	PCB-17	625		PCB-45	661		PCB-57	13.7							
			PCB-27	98.7		PCB-51	167		PCB-58	[4.67]	J EMPC						
<b>Conc.</b>	33.7		PCB-24	11.4		PCB-46	251		PCB-67	81.2							
<b>EMPC</b>	41.4		PCB-16	623		PCB-52	4,870		PCB-63	125							
			PCB-32	559		PCB-73	(0.761)		PCB-61/70/74/76	6,230	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	8.85	J	PCB-43	170		PCB-66	3,610							
PCB-4	218		PCB-23	(1.37)		PCB-69/49	2,500	C	PCB-55	(2.14)							
PCB-10	8.21	J	PCB-26/29	327	C	PCB-48	846		PCB-56	1,710							
PCB-9	14.5		PCB-25	133		PCB-44/47/65	4,100	C	PCB-60	809							
PCB-7	5.88	J	PCB-31	2,170		PCB-59/62/75	298	C	PCB-80	(1.78)							
PCB-6	54.3		PCB-28/20	2,130	C	PCB-42	1,050		PCB-79	31.8							
PCB-5	(1.71)		PCB-21/33	702	C	PCB-41	353		PCB-78	(2.22)							
PCB-8	233		PCB-22	594		PCB-71/40	1,840	C	PCB-81	15.4							
PCB-14	(1.42)		PCB-36	(1.32)		PCB-64	1,690		PCB-77	298							
PCB-11	30.9	B	PCB-39	26													
PCB-13/12	22.4	C	PCB-38	6.85	J												
PCB-15	160		PCB-35	39													
			PCB-37	447													
<b>Conc.</b>	747		<b>Conc.</b>	10,400					<b>Conc.</b>	32,500							
<b>EMPC</b>	747		<b>EMPC</b>	10,400					<b>EMPC</b>	32,500							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						11,200			11,200		
						Tetra-Hexa						51,100			51,200		
						Hepta-Deca						1,960			1,970		
						Mono-Deca			64,300			64,400					

Sample ID: PB056_C-1SWMID-140313-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.408)		PCB-108/119/86/97/125/87	1,700	C	PCB-155	(0.405)		PCB-165	(0.529)	
PCB-96	48.8		PCB-117	68.5		PCB-152	(0.47)		PCB-146	115	
PCB-103	19.7		PCB-116/85	566	C	PCB-150	(0.456)		PCB-161	(0.491)	
PCB-94	24.1		PCB-110	2,430		PCB-136	107		PCB-153/168	593	C
PCB-95	1,600		PCB-115	(1.68)		PCB-145	(0.492)		PCB-141	154	
PCB-100/93	38.7	C	PCB-82	417		PCB-148	(0.621)		PCB-130	68.7	
PCB-102	138		PCB-111	(1.56)		PCB-151/135	240	C	PCB-137	[44.2]	EMPC
PCB-98	(2.2)		PCB-120	(1.54)		PCB-154	10.8		PCB-164	60.7	
PCB-88	(2.22)		PCB-107/124	81.2	C	PCB-144	39.9		PCB-163/138/129	926	C
PCB-91	467		PCB-109	135		PCB-147/149	608	C	PCB-160	(0.551)	
PCB-84	731		PCB-123	48.8		PCB-134	56.1		PCB-158	93.6	
PCB-89	73.3		PCB-106	(1.74)		PCB-143	(0.638)		PCB-128/166	159	C
PCB-121	(1.54)		PCB-118	1,660		PCB-139/140	18.9	J C	PCB-159	6.72	J
PCB-92	357		PCB-122	40.1		PCB-131	16.4		PCB-162	3.54	J
PCB-113/90/101	1,950	C	PCB-114	56		PCB-142	(0.757)		PCB-167	31	
PCB-83	146		PCB-105	977		PCB-132	306		PCB-156/157	108	C
PCB-99	1,160		PCB-127	(1.73)		PCB-133	12.5		PCB-169	(1.11)	
PCB-112	(1.63)		PCB-126	[10.7]							
			<b>Conc.</b>	14,900					<b>Conc.</b>	3,730	
			<b>EMPC</b>	14,900					<b>EMPC</b>	3,780	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.49)		PCB-174	129		PCB-202	16.7		PCB-208	25.9	
PCB-179	58.6		PCB-177	82.9		PCB-201	9.6	J	PCB-207	21.1	
PCB-184	(0.597)		PCB-181	[1.85]	J EMPC	PCB-204	(0.825)		PCB-206	38.3	
PCB-176	17.3		PCB-171/173	48.5	C	PCB-197	4.31	J			
PCB-186	(0.576)		PCB-172	25.5		PCB-200	7.64	J	<b>Conc.</b>	85.4	
PCB-178	29.5		PCB-192	(1.04)		PCB-198/199	68.9	C	<b>EMPC</b>	85.4	
PCB-175	6.36	J	PCB-180/193	263	C	PCB-196	30.2				
PCB-187	161		PCB-191	6.36	J	PCB-203	35.6		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.12)		PCB-170	133		PCB-195	22.2		PCB-209	545	
PCB-183	75.4		PCB-190	25.7		PCB-194	54.9				
PCB-185	12.8		PCB-189	[5.03]	J EMPC	PCB-205	3.01	J			
			<b>Conc.</b>	1,070		<b>Conc.</b>	253				
			<b>EMPC</b>	1,080		<b>EMPC</b>	253				



**Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.96 L	Sample ID:	A6504_11892_PCB_005	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	7	QC Batch No.:	11892	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	46.6				ES PCB-1	54	
PCB-81 344'5'-TeCB	ND	1.67			ES PCB-3	66.2	
PCB-105 233'44'-PeCB	110				ES PCB-4	72.8	
PCB-114 2344'5'-PeCB	6.7			J	ES PCB-15	95.2	
PCB-118 23'44'5'-PeCB	199				ES PCB-19	86.6	
PCB-123 23'44'5'-PeCB	5.35			J	ES PCB-37	84.6	
PCB-126 33'44'5'-PeCB	ND	0.899			ES PCB-54	94.2	
PCB-156/157 233'44'5'/233'44'5'-HxCB	9.76			J C	ES PCB-77	86.7	
PCB-167 23'44'55'-HxCB	3.06			J	ES PCB-81	84.8	
PCB-169 33'44'55'-HxCB	ND	0.701			ES PCB-104	110	
PCB-189 233'44'55'-HpCB	ND	0.874			ES PCB-105	91.3	
					ES PCB-114	91.4	
<b>TEQs (WHO M/H)</b>					ES PCB-118	94.2	
					ES PCB-123	92.4	
ND = 0	0.0147		0.0147		ES PCB-126	93.2	
ND = 0.5 x DL	0.0704		0.0704		ES PCB-153	92.3	
ND = DL	0.126		0.126		ES PCB-155	94.8	
					ES PCB-156/157	78.2	
<b>Totals</b>					ES PCB-167	79.5	
Mono-CBs	31.4				ES PCB-169	74	
Di-CBs	463				ES PCB-170	91.7	
Tri-CBs	4,650		4,660		ES PCB-180	94.4	
Tetra-CBs	8,380				ES PCB-188	111	
Penta-CBs	2,140		2,170		ES PCB-189	93.5	
Hexa-CBs	357		368		ES PCB-202	104	
Hepta-CBs	65.2		88.5		ES PCB-205	86.8	
Octa-CBs	7.41		17.2		ES PCB-206	91.8	
Nona-CBs	11.9				ES PCB-208	105	
Deca-CB	65				ES PCB-209	84.7	
					CS PCB-28	84.5	
Total PCB (Mono-Deca)	16,200		16,300		CS PCB-111	94.1	
					CS PCB-178	111	

Checkcode: 681-037-MXQ


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North Carolina 28405  
USA

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Sample ID: PB056_C-1SWMID-140313-N (DISSOLVED)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.96 L			Sample ID: A6504_11892_PCB_005			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 7			QC Batch No.: 11892			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 681-037-MXQ			Time Analyzed: 01:43:07								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	26.4		PCB-19	96.7		PCB-54	3.83	J	PCB-72	4.59	J						
PCB-2	(1.21)		PCB-30/18	995	C	PCB-50/53	238	C	PCB-68	16.7							
PCB-3	4.96	J	PCB-17	321		PCB-45	227		PCB-57	3.32	J						
			PCB-27	55.5		PCB-51	58.4		PCB-58	(1.53)							
<b>Conc.</b>	31.4		PCB-24	[5.73]	J EMPC	PCB-46	83.3		PCB-67	18.5							
<b>EMPC</b>	31.4		PCB-16	340		PCB-52	1,490		PCB-63	27.1							
			PCB-32	275		PCB-73	(0.899)		PCB-61/70/74/76	1,330	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	3.65	J	PCB-43	47		PCB-66	729							
PCB-4	170		PCB-23	(1.61)		PCB-69/49	697	C	PCB-55	(1.63)							
PCB-10	7.43	J	PCB-26/29	136	C	PCB-48	242		PCB-56	350							
PCB-9	(2.1)		PCB-25	53.3		PCB-44/47/65	1,170	C	PCB-60	168							
PCB-7	(1.83)		PCB-31	894		PCB-59/62/75	84.3	C	PCB-80	(1.36)							
PCB-6	33.7		PCB-28/20	818	C	PCB-42	285		PCB-79	(1.42)							
PCB-5	(1.99)		PCB-21/33	277	C	PCB-41	93.2		PCB-78	(1.69)							
PCB-8	136		PCB-22	239		PCB-71/40	510	C	PCB-81	(1.67)							
PCB-14	(1.66)		PCB-36	(1.55)		PCB-64	461		PCB-77	46.6							
PCB-11	24.3	B	PCB-39	(1.49)													
PCB-13/12	11.6	J C	PCB-38	(1.65)													
PCB-15	80		PCB-35	12.3													
			PCB-37	137													
<b>Conc.</b>	463		<b>Conc.</b>	4,650					<b>Conc.</b>	8,380							
<b>EMPC</b>	463		<b>EMPC</b>	4,660					<b>EMPC</b>	8,380							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						5,150			5,150		
						Tetra-Hexa						10,900			10,900		
						Hepta-Deca						150			183		
						Mono-Deca			16,200			16,300					

Sample ID: PB056_C-1SWMID-140313-N (DISSOLVED)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.576)		PCB-108/119/86/97/125/87	247	C	PCB-155	(0.443)		PCB-165	(0.63)	
PCB-96	8.95	J	PCB-117	6.51	J	PCB-152	(0.513)		PCB-146	11.9	
PCB-103	(1.33)		PCB-116/85	75.6	C	PCB-150	(0.499)		PCB-161	(0.584)	
PCB-94	(1.58)		PCB-110	357		PCB-136	[11.3]	EMPC	PCB-153/168	59.7	C
PCB-95	292		PCB-115	(1.13)		PCB-145	(0.538)		PCB-141	14.6	
PCB-100/93	[5.66]	J EMPC C	PCB-82	56.2		PCB-148	(0.74)		PCB-130	6.86	J
PCB-102	23.8		PCB-111	(1.05)		PCB-151/135	26.5	C	PCB-137	4.29	J
PCB-98	(1.48)		PCB-120	(1.03)		PCB-154	(0.662)		PCB-164	6.38	J
PCB-88	(1.49)		PCB-107/124	9.47	J C	PCB-144	3.96	J	PCB-163/138/129	87.4	C
PCB-91	70.7		PCB-109	16.7		PCB-147/149	63.4	C	PCB-160	(0.656)	
PCB-84	125		PCB-123	5.35	J	PCB-134	5.83	J	PCB-158	9.56	J
PCB-89	13		PCB-106	(1.17)		PCB-143	(0.76)		PCB-128/166	13.5	J C
PCB-121	(1.04)		PCB-118	199		PCB-139/140	(0.748)	C	PCB-159	(0.672)	
PCB-92	55.1		PCB-122	5.32	J	PCB-131	(0.881)		PCB-162	(0.675)	
PCB-113/90/101	295	C	PCB-114	6.7	J	PCB-142	(0.901)		PCB-167	3.06	J
PCB-83	[20.2]	EMPC	PCB-105	110		PCB-132	30.2		PCB-156/157	9.76	J C
PCB-99	164		PCB-127	(1.23)		PCB-133	(0.801)		PCB-169	(0.701)	
PCB-112	(1.09)		PCB-126	(0.899)							
			<b>Conc.</b>	2,140					<b>Conc.</b>	357	
			<b>EMPC</b>	2,170					<b>EMPC</b>	368	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.553)		PCB-174	[10.4]	EMPC	PCB-202	1.74	J	PCB-208	2.93	J
PCB-179	5.81	J	PCB-177	7.6	J	PCB-201	(0.838)		PCB-207	3.01	J
PCB-184	(0.673)		PCB-181	(1.09)		PCB-204	(0.901)		PCB-206	6	J
PCB-176	1.66	J	PCB-171/173	4.92	J C	PCB-197	(0.859)				
PCB-186	(0.65)		PCB-172	(1.19)		PCB-200	(0.862)		<b>Conc.</b>	11.9	
PCB-178	2.9	J	PCB-192	(0.917)		PCB-198/199	[6.1]	J EMPC C	<b>EMPC</b>	11.9	
PCB-175	(1.08)		PCB-180/193	22.3	C	PCB-196	2.78	J			
PCB-187	[13]	EMPC	PCB-191	(0.872)		PCB-203	2.89	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.985)		PCB-170	11.4		PCB-195	(1.52)		PCB-209	65	
PCB-183	6.5	J	PCB-190	2.06	J	PCB-194	[3.71]	J EMPC			
PCB-185	(1.12)		PCB-189	(0.874)		PCB-205	(1.08)				
			<b>Conc.</b>	65.2		<b>Conc.</b>	7.41				
			<b>EMPC</b>	88.5		<b>EMPC</b>	17.2				

**Sample ID: EF006.1-1SWMID-140313-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.93 L	Sample ID:	A6504_11892_PCB_006	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	6	QC Batch No.:	11892	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	11.4				ES PCB-1	42.1	
PCB-81 344'5'-TeCB	ND	1.25			ES PCB-3	51	
PCB-105 233'44'-PeCB	43.9				ES PCB-4	55.1	
PCB-114 2344'5'-PeCB	EMPC		2.2	J	ES PCB-15	80.3	
PCB-118 23'44'5'-PeCB	76.9				ES PCB-19	65.9	
PCB-123 23'44'5'-PeCB	ND	0.779			ES PCB-37	79.4	
PCB-126 33'44'5'-PeCB	ND	1.07			ES PCB-54	78	
PCB-156/157 233'44'5'/233'44'5'-HxCB	10.8			J C	ES PCB-77	83.6	
PCB-167 23'44'55'-HxCB	3.58			J	ES PCB-81	82.3	
PCB-169 33'44'55'-HxCB	ND	0.971			ES PCB-104	99.9	
PCB-189 233'44'55'-HpCB	ND	1.03			ES PCB-105	91.7	
					ES PCB-114	89.8	
<b>TEQs (WHO M/H)</b>					ES PCB-118	93.3	
					ES PCB-123	89.5	
ND = 0	0.00519		0.00526		ES PCB-126	91	
ND = 0.5 x DL	0.0733		0.0734		ES PCB-153	87.6	
ND = DL	0.141		0.142		ES PCB-155	86.5	
					ES PCB-156/157	71.5	
<b>Totals</b>					ES PCB-167	75.7	
Mono-CBs	ND	1.46			ES PCB-169	65.7	
Di-CBs	43.7				ES PCB-170	89.2	
Tri-CBs	276				ES PCB-180	92	
Tetra-CBs	997		1,000		ES PCB-188	102	
Penta-CBs	634		638		ES PCB-189	86.3	
Hexa-CBs	334		337		ES PCB-202	96.7	
Hepta-CBs	120		123		ES PCB-205	73.9	
Octa-CBs	10.7		26.6		ES PCB-206	75.5	
Nona-CBs	4.15		6.67		ES PCB-208	97.8	
Deca-CB	41.4				ES PCB-209	67.1	
					CS PCB-28	84.7	
Total PCB (Mono-Deca)	2,460		2,490		CS PCB-111	96.4	
					CS PCB-178	112	

Checkcode: 889-569-FHN


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Report Created: 31-Mar-2014 18:58 Analyst: CM



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USA

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Sample ID: EF006.1-1SWMID-140313-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.93 L			Sample ID: A6504_11892_PCB_006			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 6			QC Batch No.: 11892			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 889-569-FHN			Time Analyzed: 02:38:21								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(1.45)		PCB-19	8.17	J	PCB-54	(0.732)		PCB-72	(1.1)							
PCB-2	(1.32)		PCB-30/18	53.2	C	PCB-50/53	18.2	J C	PCB-68	23.4							
PCB-3	(1.47)		PCB-17	18.3		PCB-45	13.9		PCB-57	(1.16)							
			PCB-27	4.75	J	PCB-51	21.7		PCB-58	(1.15)							
<b>Conc.</b>	0		PCB-24	(1.85)		PCB-46	5.86	J	PCB-67	(1.08)							
<b>EMPC</b>	0		PCB-16	17		PCB-52	182		PCB-63	(1.03)							
			PCB-32	19.3		PCB-73	(0.63)		PCB-61/70/74/76	148	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.44)		PCB-43	(0.97)		PCB-66	118							
PCB-4	8.69	J	PCB-23	(1.42)		PCB-69/49	82.4	C	PCB-55	(1.22)							
PCB-10	(1.89)		PCB-26/29	9.45	J C	PCB-48	14.1		PCB-56	42.5							
PCB-9	(1.61)		PCB-25	6.08	J	PCB-44/47/65	140	C	PCB-60	27.8							
PCB-7	(1.41)		PCB-31	46.7		PCB-59/62/75	11.1	J C	PCB-80	(1.01)							
PCB-6	(1.53)		PCB-28/20	67.7	C	PCB-42	26.3		PCB-79	(1.06)							
PCB-5	(1.53)		PCB-21/33	11.2	J C	PCB-41	[5.49]	J EMPC	PCB-78	(1.26)							
PCB-8	5.1	J	PCB-22	13.9		PCB-71/40	51.8	C	PCB-81	(1.25)							
PCB-14	(1.28)		PCB-36	(1.37)		PCB-64	58.3		PCB-77	11.4							
PCB-11	23.1	B	PCB-39	(1.32)													
PCB-13/12	(1.47)	C	PCB-38	(1.46)													
PCB-15	6.74	J	PCB-35	(1.51)													
			PCB-37	(1.64)													
<b>Conc.</b>	43.7		<b>Conc.</b>	276					<b>Conc.</b>	997							
<b>EMPC</b>	43.7		<b>EMPC</b>	276					<b>EMPC</b>	1,000							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						319			319		
						Tetra-Hexa						1,960			1,980		
						Hepta-Deca						176			197		
						Mono-Deca			2,460			2,490					

Sample ID: EF006.1-1SWMID-140313-N (TOTAL)						Method 1668A					
Penta			Penta			Hexa			Hexa		
Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers	
PCB-104	(0.472)		PCB-108/119/86/97/125/87	67.4	C	PCB-155	(0.389)		PCB-165	(0.532)	
PCB-96	(0.58)		PCB-117	(0.868)		PCB-152	(0.451)		PCB-146	12.1	
PCB-103	(0.991)		PCB-116/85	27	C	PCB-150	(0.438)		PCB-161	(0.494)	
PCB-94	(1.18)		PCB-110	115		PCB-136	6.76	J	PCB-153/168	59.6	C
PCB-95	66		PCB-115	(0.842)		PCB-145	(0.472)		PCB-141	12.2	
PCB-100/93	(1.08)	C	PCB-82	12.6		PCB-148	(0.625)		PCB-130	6.79	J
PCB-102	4.27	J	PCB-111	(0.785)		PCB-151/135	19.5	J C	PCB-137	4.35	J
PCB-98	(1.11)		PCB-120	(0.773)		PCB-154	(0.559)		PCB-164	6.1	J
PCB-88	(1.12)		PCB-107/124	3.37	J C	PCB-144	[2.27]	J EMPC	PCB-163/138/129	90.5	C
PCB-91	16.7		PCB-109	7.32	J	PCB-147/149	48.9	C	PCB-160	(0.554)	
PCB-84	26.5		PCB-123	(0.779)		PCB-134	5.42	J	PCB-158	8.68	J
PCB-89	[1.86]	J EMPC	PCB-106	(0.872)		PCB-143	(0.642)		PCB-128/166	15.1	J C
PCB-121	(0.775)		PCB-118	76.9		PCB-139/140	(0.632)	C	PCB-159	(0.805)	
PCB-92	18.1		PCB-122	(0.927)		PCB-131	(0.744)		PCB-162	(0.809)	
PCB-113/90/101	89.2	C	PCB-114	[2.2]	J EMPC	PCB-142	(0.761)		PCB-167	3.58	J
PCB-83	6.69	J	PCB-105	43.9		PCB-132	24		PCB-156/157	10.8	J C
PCB-99	52.5		PCB-127	(0.871)		PCB-133	(0.677)		PCB-169	(0.971)	
PCB-112	(0.816)		PCB-126	(1.07)							
			<b>Conc.</b>	634					<b>Conc.</b>	334	
			<b>EMPC</b>	638					<b>EMPC</b>	337	
Hepta			Hepta			Octa			Nona		
Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers	
PCB-188	(0.541)		PCB-174	13.8		PCB-202	2.55	J	PCB-208	4.15	J
PCB-179	5.55	J	PCB-177	8.34	J	PCB-201	(0.748)		PCB-207	[2.52]	J EMPC
PCB-184	(0.659)		PCB-181	(0.908)		PCB-204	(0.805)		PCB-206	(3.69)	
PCB-176	1.32	J	PCB-171/173	5.48	J C	PCB-197	(0.767)				
PCB-186	(0.636)		PCB-172	3.46	J	PCB-200	(0.77)		<b>Conc.</b>	4.15	
PCB-178	3.97	J	PCB-192	(0.763)		PCB-198/199	[8.64]	J EMPC C	<b>EMPC</b>	6.67	
PCB-175	(0.897)		PCB-180/193	33	C	PCB-196	3.99	J			
PCB-187	18.3		PCB-191	(0.726)		PCB-203	4.18	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.82)		PCB-170	18		PCB-195	(1.86)		PCB-209	41.4	
PCB-183	8.74	J	PCB-190	[2.93]	J EMPC	PCB-194	[7.22]	J EMPC			
PCB-185	(0.933)		PCB-189	(1.03)		PCB-205	(1.31)				
			<b>Conc.</b>	120		<b>Conc.</b>	10.7				
			<b>EMPC</b>	123		<b>EMPC</b>	26.6				

**Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.94 L	Sample ID:	A6504_11892_PCB_007	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	6	QC Batch No.:	11892	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	3.49			J	ES PCB-1	44.9	
PCB-81 344'5'-TeCB	ND	1.44			ES PCB-3	55.8	
PCB-105 233'44'-PeCB	EMPC		4.26	J	ES PCB-4	62.4	
PCB-114 2344'5'-PeCB	ND	0.788			ES PCB-15	88.1	
PCB-118 23'44'5'-PeCB	13.2			B	ES PCB-19	74.9	
PCB-123 23'44'5'-PeCB	ND	0.814			ES PCB-37	82.7	
PCB-126 33'44'5'-PeCB	ND	1.6			ES PCB-54	83.5	
PCB-156/157 233'44'5'/233'44'5'-HxCB	1.69			J C	ES PCB-77	87.2	
PCB-167 23'44'55'-HxCB	ND	0.547			ES PCB-81	84.7	
PCB-169 33'44'55'-HxCB	ND	0.711			ES PCB-104	101	
PCB-189 233'44'55'-HpCB	ND	0.781			ES PCB-105	90.8	
					ES PCB-114	89.8	
<b>TEQs (WHO M/H)</b>					ES PCB-118	92.2	
					ES PCB-123	90.6	
ND = 0	0.000796		0.000924		ES PCB-126	91.4	
ND = 0.5 x DL	0.0916		0.0917		ES PCB-153	90.2	
ND = DL	0.182		0.183		ES PCB-155	87.5	
					ES PCB-156/157	75	
<b>Totals</b>					ES PCB-167	75.6	
Mono-CBs	ND	1.67			ES PCB-169	69.4	
Di-CBs	30.4				ES PCB-170	90.9	
Tri-CBs	85.4				ES PCB-180	94.3	
Tetra-CBs	187		189		ES PCB-188	107	
Penta-CBs	83.3		108		ES PCB-189	94.6	
Hexa-CBs	75.4		77.1		ES PCB-202	100	
Hepta-CBs	32.4		34.6		ES PCB-205	84	
Octa-CBs	8.39		9.64		ES PCB-206	89.6	
Nona-CBs	ND	2.68			ES PCB-208	105	
Deca-CB	2.49			J	ES PCB-209	82.1	
					CS PCB-28	85.9	
Total PCB (Mono-Deca)	504		537		CS PCB-111	95.1	
					CS PCB-178	112	

Checkcode: 251-126-RZF


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USA

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Sample ID: PB119_B-1SWMID-140313-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.94 L			Sample ID: A6504_11892_PCB_007			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 6			QC Batch No.: 11892			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 251-126-RZF			Time Analyzed: 03:33:35								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(1.7)		PCB-19	(2.54)		PCB-54	(0.678)		PCB-72	(1.27)							
PCB-2	(1.49)		PCB-30/18	13.5	J C	PCB-50/53	[2.13]	J EMPC C	PCB-68	30.1							
PCB-3	(1.65)		PCB-17	11.3		PCB-45	(0.975)		PCB-57	(1.34)							
			PCB-27	(1.62)		PCB-51	26.3		PCB-58	(1.32)							
<b>Conc.</b>	0		PCB-24	(1.7)		PCB-46	(1.09)		PCB-67	(1.25)							
<b>EMPC</b>	0		PCB-16	6.94	J	PCB-52	23.5	B	PCB-63	(1.19)							
			PCB-32	4.63	J	PCB-73	(0.681)		PCB-61/70/74/76	23.4	J B C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.54)		PCB-43	(1.05)		PCB-66	8.86	J						
PCB-4	7.04	J	PCB-23	(1.52)		PCB-69/49	9.2	J B C	PCB-55	(1.4)							
PCB-10	(1.57)		PCB-26/29	2.75	J C	PCB-48	3.09	J	PCB-56	4.52	J						
PCB-9	(1.62)		PCB-25	4.58	J	PCB-44/47/65	33.6	C	PCB-60	2.97	J						
PCB-7	(1.42)		PCB-31	12.2	B	PCB-59/62/75	(0.645)	C	PCB-80	(1.17)							
PCB-6	(1.54)		PCB-28/20	14.9	J B C	PCB-42	3.73	J	PCB-79	(1.23)							
PCB-5	(1.54)		PCB-21/33	3.24	J C	PCB-41	(1.07)		PCB-78	(1.45)							
PCB-8	(1.47)		PCB-22	3.33	J	PCB-71/40	7.71	J C	PCB-81	(1.44)							
PCB-14	(1.28)		PCB-36	(1.46)		PCB-64	6.1	J	PCB-77	3.49	J						
PCB-11	15	B	PCB-39	(1.41)													
PCB-13/12	(1.48)	C	PCB-38	(1.55)													
PCB-15	8.3	J	PCB-35	(1.62)													
			PCB-37	7.91	J												
<b>Conc.</b>	30.4		<b>Conc.</b>	85.4					<b>Conc.</b>	187							
<b>EMPC</b>	30.4		<b>EMPC</b>	85.4					<b>EMPC</b>	189							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						116			116		
						Tetra-Hexa						345			374		
						Hepta-Deca						43.3			46.7		
						Mono-Deca			504			537					



Sample ID: PB119_B-1SWMID-140313-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.604)		PCB-108/119/86/97/125/87	[12.8]	J EMPC C	PCB-155	1.4	J	PCB-165	(0.701)	
PCB-96	(0.742)		PCB-117	(0.906)		PCB-152	(0.573)		PCB-146	3.02	J
PCB-103	(1.03)		PCB-116/85	[2.64]	J EMPC C	PCB-150	(0.556)		PCB-161	(0.651)	
PCB-94	(1.23)		PCB-110	20.4	B	PCB-136	2.61	J	PCB-153/168	16.3	J B C
PCB-95	16	B	PCB-115	(0.879)		PCB-145	(0.6)		PCB-141	3.27	J
PCB-100/93	(1.13)	C	PCB-82	(1.42)		PCB-148	(0.824)		PCB-130	(1.02)	
PCB-102	(1.12)		PCB-111	(0.82)		PCB-151/135	7.43	J C	PCB-137	(0.806)	
PCB-98	(1.15)		PCB-120	(0.807)		PCB-154	(0.737)		PCB-164	(0.675)	
PCB-88	(1.17)		PCB-107/124	(0.897)	C	PCB-144	(0.839)		PCB-163/138/129	16.9	J B C
PCB-91	2.95	J	PCB-109	(0.807)		PCB-147/149	14.7	J B C	PCB-160	(0.731)	
PCB-84	[5.43]	J EMPC	PCB-123	(0.814)		PCB-134	(1.14)		PCB-158	[1.71]	J EMPC
PCB-89	(1.26)		PCB-106	(0.91)		PCB-143	(0.846)		PCB-128/166	2.84	J C
PCB-121	(0.809)		PCB-118	13.2	B	PCB-139/140	(0.834)	C	PCB-159	(0.592)	
PCB-92	3.34	J	PCB-122	(0.939)		PCB-131	(0.981)		PCB-162	(0.594)	
PCB-113/90/101	19.3	J B C	PCB-114	(0.788)		PCB-142	(1)		PCB-167	(0.547)	
PCB-83	(1.49)		PCB-105	[4.26]	J EMPC	PCB-132	5.17	J	PCB-156/157	1.69	J C
PCB-99	8.09	J	PCB-127	(0.89)		PCB-133	(0.892)		PCB-169	(0.711)	
PCB-112	(0.852)		PCB-126	(1.6)							
			<b>Conc.</b>	83.3					<b>Conc.</b>	75.4	
			<b>EMPC</b>	108					<b>EMPC</b>	77.1	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.581)		PCB-174	3.59	J	PCB-202	[1.25]	J EMPC	PCB-208	(1.99)	
PCB-179	2.93	J	PCB-177	[2.15]	J EMPC	PCB-201	(0.712)		PCB-207	(1.96)	
PCB-184	2.99	J	PCB-181	(0.846)		PCB-204	(0.766)		PCB-206	(3.37)	
PCB-176	(0.639)		PCB-171/173	(0.967)	C	PCB-197	(0.73)				
PCB-186	(0.682)		PCB-172	(0.924)		PCB-200	(0.733)		<b>Conc.</b>	0	
PCB-178	(0.977)		PCB-192	(0.711)		PCB-198/199	4.21	J C	<b>EMPC</b>	0	
PCB-175	(0.836)		PCB-180/193	9.83	J C	PCB-196	(1.04)				
PCB-187	6.65	J	PCB-191	(0.677)		PCB-203	2.2	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.764)		PCB-170	3.74	J	PCB-195	(1.52)		PCB-209	2.49	J
PCB-183	2.69	J	PCB-190	(0.71)		PCB-194	1.98	J			
PCB-185	(0.869)		PCB-189	(0.781)		PCB-205	(1.08)				
			<b>Conc.</b>	32.4		<b>Conc.</b>	8.39				
			<b>EMPC</b>	34.6		<b>EMPC</b>	9.64				

**Sample ID: EB1-01 (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.97 L	Sample ID:	A6504_11892_PCB_008	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	5	QC Batch No.:	11892	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L				%
PCB-77 33'44'-TeCB	ND	1.6			ES PCB-1	47.8	
PCB-81 344'5'-TeCB	ND	1.75			ES PCB-3	61.2	
PCB-105 233'44'-PeCB	ND	1.22			ES PCB-4	69.7	
PCB-114 2344'5'-PeCB	ND	1.04			ES PCB-15	94	
PCB-118 23'44'5'-PeCB	2.66			J B	ES PCB-19	84.7	
PCB-123 23'44'5'-PeCB	ND	1.11			ES PCB-37	83.6	
PCB-126 33'44'5'-PeCB	ND	1.73			ES PCB-54	90.2	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	1.63		C	ES PCB-77	88.7	
PCB-167 23'44'55'-HxCB	ND	1.06			ES PCB-81	85.5	
PCB-169 33'44'55'-HxCB	ND	1.34			ES PCB-104	108	
PCB-189 233'44'55'-HpCB	ND	1.5			ES PCB-105	92.8	
					ES PCB-114	92.7	
<b>TEQs (WHO M/H)</b>					ES PCB-118	95.4	
					ES PCB-123	92.2	
ND = 0	0.0000799		0.0000799		ES PCB-126	94.2	
ND = 0.5 x DL	0.107		0.107		ES PCB-153	95.4	
ND = DL	0.214		0.214		ES PCB-155	94.9	
					ES PCB-156/157	78.9	
<b>Totals</b>					ES PCB-167	82.3	
Mono-CBs	ND	3.05			ES PCB-169	75.1	
Di-CBs	16.1				ES PCB-170	99.4	
Tri-CBs	16.5		21		ES PCB-180	98.8	
Tetra-CBs	151		155		ES PCB-188	113	
Penta-CBs	16.1				ES PCB-189	102	
Hexa-CBs			11.1		ES PCB-202	104	
Hepta-CBs	2.84		4.69		ES PCB-205	93.1	
Octa-CBs	ND	1.53			ES PCB-206	96	
Nona-CBs	ND	4.13			ES PCB-208	112	
Deca-CB	ND	1.69			ES PCB-209	91.4	
					CS PCB-28	86.3	
Total PCB (Mono-Deca)	202		224		CS PCB-111	95.4	
					CS PCB-178	113	

Checkcode: 842-903-YGS


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North Carolina 28405  
USA

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Sample ID: EB1-01 (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.97 L			Sample ID: A6504_11892_PCB_008			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 5			QC Batch No.: 11892			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 842-903-YGS			Time Analyzed: 04:28:49								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(3.34)		PCB-19	(4.32)		PCB-54	(1.38)		PCB-72	(1.54)							
PCB-2	(2.49)		PCB-30/18	(3.22)	C	PCB-50/53	(1.7)	C	PCB-68	37.1							
PCB-3	(2.76)		PCB-17	8.35	J	PCB-45	(1.87)		PCB-57	(1.62)							
			PCB-27	(2.76)		PCB-51	81.8		PCB-58	(1.6)							
<b>Conc.</b>	0		PCB-24	(2.89)		PCB-46	(2.1)		PCB-67	(1.51)							
<b>EMPC</b>	0		PCB-16	(5.05)		PCB-52	[4.45]	J B EMPC	PCB-63	(1.44)							
			PCB-32	(2.58)		PCB-73	(1.31)		PCB-61/70/74/76	(1.61)	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(2.55)		PCB-43	(2.02)		PCB-66	(1.67)							
PCB-4	(4.8)		PCB-23	(2.51)		PCB-69/49	2.85	J B C	PCB-55	(1.7)							
PCB-10	(3.08)		PCB-26/29	(2.47)	C	PCB-48	(1.73)		PCB-56	(1.69)							
PCB-9	(3.45)		PCB-25	(2.46)		PCB-44/47/65	29.3	J B C	PCB-60	(1.68)							
PCB-7	(3)		PCB-31	3.3	J B	PCB-59/62/75	(1.24)	C	PCB-80	(1.42)							
PCB-6	(3.26)		PCB-28/20	4.85	J B C	PCB-42	(1.89)		PCB-79	(1.49)							
PCB-5	(3.27)		PCB-21/33	[4.52]	J EMPC C	PCB-41	(2.06)		PCB-78	(1.76)							
PCB-8	3.13	J	PCB-22	(2.65)		PCB-71/40	(1.7)	C	PCB-81	(1.75)							
PCB-14	(2.72)		PCB-36	(2.42)		PCB-64	(1.17)		PCB-77	(1.6)							
PCB-11	13	B	PCB-39	(2.34)													
PCB-13/12	(3.15)	C	PCB-38	(2.58)													
PCB-15	(3.24)		PCB-35	(2.68)													
			PCB-37	(2.91)													
<b>Conc.</b>	16.1		<b>Conc.</b>	16.5					<b>Conc.</b>	151							
<b>EMPC</b>	16.1		<b>EMPC</b>	21					<b>EMPC</b>	155							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						32.6			37.1		
						Tetra-Hexa						167			183		
						Hepta-Deca						2.84			4.69		
						Mono-Deca						202			224		

Sample ID: EB1-01 (TOTAL)						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.864)		PCB-108/119/86/97/125/87	(1.38)	C	PCB-155	(0.777)		PCB-165	(1.07)	
PCB-96	(1.06)		PCB-117	(1.24)		PCB-152	(0.901)		PCB-146	(1.22)	
PCB-103	(1.41)		PCB-116/85	(1.39)	C	PCB-150	(0.875)		PCB-161	(0.991)	
PCB-94	(1.68)		PCB-110	4.57	J B	PCB-136	(0.956)		PCB-153/168	[2.32]	J B EMPC C
PCB-95	4.66	J B	PCB-115	(1.2)		PCB-145	(0.944)		PCB-141	(1.4)	
PCB-100/93	(1.54)	C	PCB-82	(1.94)		PCB-148	(1.25)		PCB-130	(1.55)	
PCB-102	(1.53)		PCB-111	(1.12)		PCB-151/135	(1.33)	C	PCB-137	(1.23)	
PCB-98	(1.57)		PCB-120	(1.1)		PCB-154	(1.12)		PCB-164	(1.03)	
PCB-88	(1.59)		PCB-107/124	(1.22)	C	PCB-144	(1.28)		PCB-163/138/129	[4.18]	J B EMPC C
PCB-91	(1.57)		PCB-109	(1.1)		PCB-147/149	[4.57]	J B EMPC C	PCB-160	(1.11)	
PCB-84	(1.87)		PCB-123	(1.11)		PCB-134	(1.73)		PCB-158	(0.946)	
PCB-89	(1.72)		PCB-106	(1.24)		PCB-143	(1.29)		PCB-128/166	(1.4)	C
PCB-121	(1.1)		PCB-118	2.66	J B	PCB-139/140	(1.27)	C	PCB-159	(1.15)	
PCB-92	(1.59)		PCB-122	(1.23)		PCB-131	(1.49)		PCB-162	(1.16)	
PCB-113/90/101	4.16	J B C	PCB-114	(1.04)		PCB-142	(1.53)		PCB-167	(1.06)	
PCB-83	(2.04)		PCB-105	(1.22)		PCB-132	(1.45)		PCB-156/157	(1.63)	C
PCB-99	(1.37)		PCB-127	(1.27)		PCB-133	(1.36)		PCB-169	(1.34)	
PCB-112	(1.16)		PCB-126	(1.73)							
			<b>Conc.</b>	16.1					<b>Conc.</b>	0	
			<b>EMPC</b>	16.1					<b>EMPC</b>	11.1	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.936)		PCB-174	(1.51)		PCB-202	(1.28)		PCB-208	(3.07)	
PCB-179	(1.09)		PCB-177	(1.59)		PCB-201	(1.21)		PCB-207	(3.03)	
PCB-184	(1.14)		PCB-181	(1.41)		PCB-204	(1.3)		PCB-206	(5.2)	
PCB-176	(1.03)		PCB-171/173	(1.61)	C	PCB-197	(1.24)				
PCB-186	(1.1)		PCB-172	(1.54)		PCB-200	(1.24)		<b>Conc.</b>	0	
PCB-178	(1.58)		PCB-192	(1.19)		PCB-198/199	(1.87)	C	<b>EMPC</b>	0	
PCB-175	(1.39)		PCB-180/193	2.84	J C	PCB-196	(1.77)				
PCB-187	[1.86]	J EMPC	PCB-191	(1.13)		PCB-203	(1.73)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.27)		PCB-170	(1.63)		PCB-195	(2.51)		PCB-209	(1.69)	
PCB-183	(1.24)		PCB-190	(1.18)		PCB-194	(2.31)				
PCB-185	(1.45)		PCB-189	(1.5)		PCB-205	(1.77)				
			<b>Conc.</b>	2.84		<b>Conc.</b>	0				
			<b>EMPC</b>	4.69		<b>EMPC</b>	0				

**Sample ID: EB1-01 (DISSOLVED)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	14-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.90 L	Sample ID:	A6504_11892_PCB_009-RJ2	Date Extracted:	18-Mar-2014
Date Collected:	13-Mar-2014	pH	5	QC Batch No.:	11892	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	1.37			ES PCB-1	46.1	
PCB-81 344'5'-TeCB	ND	1.37			ES PCB-3	57.8	
PCB-105 233'44'-PeCB	ND	0.915			ES PCB-4	65.4	
PCB-114 2344'5'-PeCB	ND	0.82			ES PCB-15	88.7	
PCB-118 23'44'5'-PeCB	EMPC		1.73	J B	ES PCB-19	76.1	
PCB-123 23'44'5'-PeCB	ND	0.844			ES PCB-37	87	
PCB-126 33'44'5'-PeCB	ND	1.05			ES PCB-54	90.1	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	1.32		C	ES PCB-77	93.1	
PCB-167 23'44'55'-HxCB	ND	0.815			ES PCB-81	92.8	
PCB-169 33'44'55'-HxCB	ND	1.02			ES PCB-104	108	
PCB-189 233'44'55'-HpCB	ND	1.08			ES PCB-105	95.5	
					ES PCB-114	94.7	
<b>TEQs (WHO M/H)</b>					ES PCB-118	97.1	
					ES PCB-123	94	
ND = 0	0		0.0000518		ES PCB-126	96	
ND = 0.5 x DL	0.0682		0.0682		ES PCB-153	92.6	
ND = DL	0.136		0.136		ES PCB-155	94.7	
					ES PCB-156/157	77.4	
<b>Totals</b>					ES PCB-167	80	
Mono-CBs	ND	1.64			ES PCB-169	72.8	
Di-CBs	11.6				ES PCB-170	92.1	
Tri-CBs	16.8		23.1		ES PCB-180	91.4	
Tetra-CBs	117		121		ES PCB-188	107	
Penta-CBs	6.83		12		ES PCB-189	99.5	
Hexa-CBs	4.86				ES PCB-202	99.4	
Hepta-CBs	ND	1.15			ES PCB-205	89.8	
Octa-CBs	ND	1.37			ES PCB-206	93.6	
Nona-CBs	ND	3.24			ES PCB-208	107	
Deca-CB	ND	1.31			ES PCB-209	88.3	
					CS PCB-28	88.1	
Total PCB (Mono-Deca)	157		173		CS PCB-111	99.2	
					CS PCB-178	111	

Checkcode: 477-807-FJT


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USA

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Sample ID: EB1-01 (DISSOLVED)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: 14-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.90 L			Sample ID: A6504_11892_PCB_009-RJ2			Date Extracted: 18-Mar-2014								
Date Collected: 13-Mar-2014			pH: 5			QC Batch No.: 11892			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 477-807-FJT			Time Analyzed: 14:24:30								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(1.67)		PCB-19	(3.28)		PCB-54	(0.84)		PCB-72	(1.13)							
PCB-2	(1.38)		PCB-30/18	(2.42)	C	PCB-50/53	(1.31)	C	PCB-68	33.1							
PCB-3	(1.61)		PCB-17	5.99	J	PCB-45	(1.55)		PCB-57	(1.2)							
			PCB-27	(2.08)		PCB-51	52.5		PCB-58	(1.15)							
Conc.	0		PCB-24	(2.18)		PCB-46	(1.63)		PCB-67	(1.13)							
EMPC	0		PCB-16	(3.62)		PCB-52	[4.05]	J B EMPC	PCB-63	(1.07)							
			PCB-32	(1.95)		PCB-73	(1.03)		PCB-61/70/74/76	4.48	J B C						
Di	Conc.	Qualifiers	PCB-34	(1.46)		PCB-43	(1.6)		PCB-66	2.47	J						
PCB-4	(3.07)		PCB-23	(1.44)		PCB-69/49	2.45	J B C	PCB-55	(1.26)							
PCB-10	(1.98)		PCB-26/29	(1.41)	C	PCB-48	(1.35)		PCB-56	(1.28)							
PCB-9	(2.2)		PCB-25	2.98	J	PCB-44/47/65	22.2	J B C	PCB-60	(1.27)							
PCB-7	(1.87)		PCB-31	3.09	J B	PCB-59/62/75	(0.989)	C	PCB-80	(1.07)							
PCB-6	(1.99)		PCB-28/20	4.76	J B C	PCB-42	(1.49)		PCB-79	(1.12)							
PCB-5	(1.96)		PCB-21/33	[4.35]	J EMPC C	PCB-41	(1.66)		PCB-78	(1.34)							
PCB-8	(1.91)		PCB-22	[1.95]	J EMPC	PCB-71/40	(1.33)	C	PCB-81	(1.37)							
PCB-14	(1.68)		PCB-36	(1.45)		PCB-64	(0.936)		PCB-77	(1.37)							
PCB-11	11.6	B	PCB-39	(1.39)													
PCB-13/12	(1.99)	C	PCB-38	(1.55)													
PCB-15	(2.07)		PCB-35	(1.65)													
			PCB-37	(1.8)													
Conc.	11.6		Conc.	16.8					Conc.	117							
EMPC	11.6		EMPC	23.1					EMPC	121							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						28.4			34.7		
						Tetra-Hexa						129			138		
						Hepta-Deca						0			0		
						Mono-Deca			157			173					

Sample ID: EB1-01 (DISSOLVED)						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.709)		PCB-108/119/86/97/125/87	(0.997)	C	PCB-155	(0.588)		PCB-165	(0.788)	
PCB-96	(0.861)		PCB-117	(0.936)		PCB-152	(0.69)		PCB-146	(0.906)	
PCB-103	(0.997)		PCB-116/85	(1.1)	C	PCB-150	(0.689)		PCB-161	(0.726)	
PCB-94	(1.18)		PCB-110	3.51	J B	PCB-136	(0.75)		PCB-153/168	2.29	J B C
PCB-95	[3.45]	J B EMPC	PCB-115	(0.837)		PCB-145	(0.722)		PCB-141	(1.04)	
PCB-100/93	(1.11)	C	PCB-82	(1.4)		PCB-148	(0.914)		PCB-130	(1.15)	
PCB-102	(0.942)		PCB-111	(0.818)		PCB-151/135	(0.946)	C	PCB-137	(0.925)	
PCB-98	(1.3)		PCB-120	(0.808)		PCB-154	(0.8)		PCB-164	(0.773)	
PCB-88	(1.21)		PCB-107/124	(0.915)	C	PCB-144	(0.931)		PCB-163/138/129	(0.947)	C
PCB-91	(1.03)		PCB-109	(0.809)		PCB-147/149	2.57	J B C	PCB-160	(0.815)	
PCB-84	(1.32)		PCB-123	(0.844)		PCB-134	(1.31)		PCB-158	(0.701)	
PCB-89	(1.26)		PCB-106	(0.925)		PCB-143	(0.915)		PCB-128/166	(1.07)	C
PCB-121	(0.782)		PCB-118	[1.73]	J B EMPC	PCB-139/140	(0.913)	C	PCB-159	(0.879)	
PCB-92	(1.16)		PCB-122	(0.955)		PCB-131	(1.09)		PCB-162	(0.887)	
PCB-113/90/101	3.32	J B C	PCB-114	(0.82)		PCB-142	(1.11)		PCB-167	(0.815)	
PCB-83	(1.35)		PCB-105	(0.915)		PCB-132	(1.07)		PCB-156/157	(1.32)	C
PCB-99	(1.07)		PCB-127	(0.893)		PCB-133	(0.995)		PCB-169	(1.02)	
PCB-112	(0.82)		PCB-126	(1.05)							
			<b>Conc.</b>	6.83					<b>Conc.</b>	4.86	
			<b>EMPC</b>	12					<b>EMPC</b>	4.86	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.837)		PCB-174	(1.4)		PCB-202	(1.18)		PCB-208	(2.53)	
PCB-179	(0.992)		PCB-177	(1.42)		PCB-201	(1.13)		PCB-207	(2.48)	
PCB-184	(1.03)		PCB-181	(1.26)		PCB-204	(1.2)		PCB-206	(3.94)	
PCB-176	(0.937)		PCB-171/173	(1.45)	C	PCB-197	(1.1)				
PCB-186	(1.02)		PCB-172	(1.4)		PCB-200	(1.19)		<b>Conc.</b>	0	
PCB-178	(1.43)		PCB-192	(1.07)		PCB-198/199	(1.78)	C	<b>EMPC</b>	0	
PCB-175	(1.26)		PCB-180/193	(1.11)	C	PCB-196	(1.67)				
PCB-187	(1.17)		PCB-191	(1.03)		PCB-203	(1.6)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.15)		PCB-170	(1.43)		PCB-195	(2.03)		PCB-209	(1.31)	
PCB-183	(1.1)		PCB-190	(1.03)		PCB-194	(1.98)				
PCB-185	(1.33)		PCB-189	(1.08)		PCB-205	(1.57)				
			<b>Conc.</b>	0		<b>Conc.</b>	0				
			<b>EMPC</b>	0		<b>EMPC</b>	0				

**Sample ID: Method Blank A6504****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6504	Date Received:	n/a
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	1.00 L	Sample ID:	MB1_11892_PCB_TLX	Date Extracted:	18-Mar-2014
Date Collected:	n/a	pH	n/a	QC Batch No.:	11892	Date Analyzed:	26-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L				%
PCB-77 33'44'-TeCB	ND	1.65			ES PCB-1	60.5	
PCB-81 344'5'-TeCB	ND	1.74			ES PCB-3	70.7	
PCB-105 233'44'-PeCB	ND	1.8			ES PCB-4	78.2	
PCB-114 2344'5'-PeCB	ND	1.71			ES PCB-15	93.2	
PCB-118 23'44'5'-PeCB	2.52			J	ES PCB-19	90.2	
PCB-123 23'44'5'-PeCB	ND	1.62			ES PCB-37	81.2	
PCB-126 33'44'5'-PeCB	ND	1.55			ES PCB-54	92.5	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	1.71		C	ES PCB-77	86	
PCB-167 23'44'55'-HxCB	ND	1.12			ES PCB-81	84.4	
PCB-169 33'44'55'-HxCB	ND	1.29			ES PCB-104	107	
PCB-189 233'44'55'-HpCB	ND	1.55			ES PCB-105	90.5	
					ES PCB-114	89.6	
<b>TEQs (WHO M/H)</b>					ES PCB-118	92.4	
					ES PCB-123	90.3	
ND = 0	0.0000756		0.0000756		ES PCB-126	90	
ND = 0.5 x DL	0.0976		0.0976		ES PCB-153	87.9	
ND = DL	0.195		0.195		ES PCB-155	88.6	
					ES PCB-156/157	73.6	
<b>Totals</b>					ES PCB-167	74.1	
Mono-CBs	ND	2.15			ES PCB-169	70.2	
Di-CBs	8.96				ES PCB-170	90.1	
Tri-CBs			4.77		ES PCB-180	92.7	
Tetra-CBs	4.85		12.3		ES PCB-188	104	
Penta-CBs	6.65		13.2		ES PCB-189	93.8	
Hexa-CBs	5.66		8.22		ES PCB-202	94.4	
Hepta-CBs	ND	1.6			ES PCB-205	88.7	
Octa-CBs	ND	1.52			ES PCB-206	94.8	
Nona-CBs	ND	3.42			ES PCB-208	106	
Deca-CB	ND	1.61			ES PCB-209	88.5	
					CS PCB-28	84	
Total PCB (Mono-Deca)	26.1		47.5		CS PCB-111	94.7	
					CS PCB-178	108	

Checkcode: 967-196-GFH

SGS Environmental Services - PCB 2014 Rev. 4.04


Report Created: 31-Mar-2014 18:54 Analyst: CM



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)



Sample ID: Method Blank A6504						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6504			Date Received: n/a								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 1.00 L			Sample ID: MB1_11892_PCB_TLX			Date Extracted: 18-Mar-2014								
Date Collected: n/a			pH: n/a			QC Batch No.: 11892			Date Analyzed: 26-Mar-2014								
			Units: pg/L			Checkcode: 967-196-GFH			Time Analyzed: 21:07:05								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(2.18)		PCB-19	(3.89)		PCB-54	(1.23)		PCB-72	(1.54)							
PCB-2	(1.91)		PCB-30/18	(2.9)	C	PCB-50/53	(1.72)	C	PCB-68	(1.47)							
PCB-3	(2.12)		PCB-17	(3.39)		PCB-45	(1.9)		PCB-57	(1.62)							
			PCB-27	(2.49)		PCB-51	(1.78)		PCB-58	(1.6)							
<b>Conc.</b>	0		PCB-24	(2.61)		PCB-46	(2.12)		PCB-67	(1.51)							
<b>EMPC</b>	0		PCB-16	(4.56)		PCB-52	[4.39]	J EMPC	PCB-63	(1.43)							
			PCB-32	(2.32)		PCB-73	(1.33)		PCB-61/70/74/76	2.85	J C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(2.48)		PCB-43	(2.04)		PCB-66	(1.66)							
PCB-4	(3.26)		PCB-23	(2.45)		PCB-69/49	2	J C	PCB-55	(1.69)							
PCB-10	(2.1)		PCB-26/29	(2.41)	C	PCB-48	(1.75)		PCB-56	(1.68)							
PCB-9	(3.02)		PCB-25	(2.4)		PCB-44/47/65	[3.07]	J EMPC C	PCB-60	(1.67)							
PCB-7	(2.64)		PCB-31	[2.28]	EMPC	PCB-59/62/75	(1.25)	C	PCB-80	(1.41)							
PCB-6	(2.86)		PCB-28/20	[2.49]	J EMPC C	PCB-42	(1.91)		PCB-79	(1.48)							
PCB-5	(2.87)		PCB-21/33	(2.41)	C	PCB-41	(2.08)		PCB-78	(1.75)							
PCB-8	(2.73)		PCB-22	(2.58)		PCB-71/40	(1.72)	C	PCB-81	(1.74)							
PCB-14	(2.39)		PCB-36	(2.36)		PCB-64	(1.19)		PCB-77	(1.65)							
PCB-11	8.96	J	PCB-39	(2.28)													
PCB-13/12	(2.76)	C	PCB-38	(2.51)													
PCB-15	(2.84)		PCB-35	(2.61)													
			PCB-37	(2.83)													
<b>Conc.</b>	8.96		<b>Conc.</b>	0					<b>Conc.</b>	4.85							
<b>EMPC</b>	8.96		<b>EMPC</b>	4.77					<b>EMPC</b>	12.3							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						8.96			13.7		
						Tetra-Hexa						17.2			33.8		
						Hepta-Deca						0			0		
						Mono-Deca			26.1			47.5					

Sample ID: Method Blank A6504						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(1.3)		PCB-108/119/86/97/125/87	(2.01)	C	PCB-155	(0.869)		PCB-165	(1.15)	
PCB-96	(1.6)		PCB-117	(1.81)		PCB-152	(1.01)		PCB-146	(1.31)	
PCB-103	(2.06)		PCB-116/85	(2.03)	C	PCB-150	(0.978)		PCB-161	(1.07)	
PCB-94	(2.45)		PCB-110	[2.77]	J EMPC	PCB-136	(1.07)		PCB-153/168	2.84	J C
PCB-95	[3.83]	J EMPC	PCB-115	(1.75)		PCB-145	(1.06)		PCB-141	(1.5)	
PCB-100/93	(2.24)	C	PCB-82	(2.83)		PCB-148	(1.35)		PCB-130	(1.67)	
PCB-102	(2.23)		PCB-111	(1.63)		PCB-151/135	(1.43)	C	PCB-137	(1.32)	
PCB-98	(2.3)		PCB-120	(1.61)		PCB-154	(1.21)		PCB-164	(1.11)	
PCB-88	(2.32)		PCB-107/124	(1.79)	C	PCB-144	(1.37)		PCB-163/138/129	2.82	J C
PCB-91	(2.29)		PCB-109	(1.61)		PCB-147/149	[2.56]	J EMPC C	PCB-160	(1.2)	
PCB-84	(2.73)		PCB-123	(1.62)		PCB-134	(1.86)		PCB-158	(1.02)	
PCB-89	(2.52)		PCB-106	(1.81)		PCB-143	(1.39)		PCB-128/166	(1.47)	C
PCB-121	(1.61)		PCB-118	2.52	J	PCB-139/140	(1.36)	C	PCB-159	(1.21)	
PCB-92	(2.33)		PCB-122	(2.03)		PCB-131	(1.61)		PCB-162	(1.22)	
PCB-113/90/101	4.13	J C	PCB-114	(1.71)		PCB-142	(1.64)		PCB-167	(1.12)	
PCB-83	(2.97)		PCB-105	(1.8)		PCB-132	(1.56)		PCB-156/157	(1.71)	C
PCB-99	(2)		PCB-127	(1.88)		PCB-133	(1.46)		PCB-169	(1.29)	
PCB-112	(1.7)		PCB-126	(1.55)							
			<b>Conc.</b>	6.65					<b>Conc.</b>	5.66	
			<b>EMPC</b>	13.2					<b>EMPC</b>	8.22	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(1.04)		PCB-174	(1.97)		PCB-202	(1.48)		PCB-208	(2.72)	
PCB-179	(1.22)		PCB-177	(2.07)		PCB-201	(1.4)		PCB-207	(2.69)	
PCB-184	(1.27)		PCB-181	(1.84)		PCB-204	(1.5)		PCB-206	(4.12)	
PCB-176	(1.15)		PCB-171/173	(2.1)	C	PCB-197	(1.43)				
PCB-186	(1.23)		PCB-172	(2)		PCB-200	(1.44)		<b>Conc.</b>	0	
PCB-178	(1.76)		PCB-192	(1.54)		PCB-198/199	(2.16)	C	<b>EMPC</b>	0	
PCB-175	(1.81)		PCB-180/193	(1.61)	C	PCB-196	(2.05)				
PCB-187	(1.7)		PCB-191	(1.47)		PCB-203	(2)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.66)		PCB-170	(2.24)		PCB-195	(2.19)		PCB-209	(1.61)	
PCB-183	(1.61)		PCB-190	(1.62)		PCB-194	(2.02)				
PCB-185	(1.89)		PCB-189	(1.55)		PCB-205	(1.55)				
			<b>Conc.</b>	0		<b>Conc.</b>	0				
			<b>EMPC</b>	0		<b>EMPC</b>	0				

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8A

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140326X06 Analysis Date: 26-MAR-2014 19:16:37  
 Lab ID: OPR1\_11892\_PCB-RJ

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	110	50 - 150	Y
PCB-3 4-MoCB	50	108	50 - 150	Y
PCB-4 22'-DiCB	50	95.1	50 - 150	Y
PCB-15 44'-DiCB	50	104	50 - 150	Y
PCB-19 22'6'-TrCB	50	96.5	50 - 150	Y
PCB-37 344'-TrCB	50	109	50 - 150	Y
PCB-54 22'66'-TeCB	50	95.5	50 - 150	Y
PCB-77 33'44'-TeCB	50	100	50 - 150	Y
PCB-81 344'5'-TeCB	50	104	50 - 150	Y
PCB-104 22'466'-PeCB	50	94.7	50 - 150	Y
PCB-105 233'44'-PeCB	50	95	50 - 150	Y
PCB-114 2344'5'-PeCB	50	97	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	95.7	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	97.1	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	108	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	92.8	50 - 150	Y
PCB-156/157 ...-HxCB	100	95.7	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	95.9	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	98.3	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	95.1	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	106	50 - 150	Y
PCB-202 22'33'55'66'-OxCB	50	96.6	50 - 150	Y
PCB-205 233'44'55'6-OxCB	50	98.3	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	99.5	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	98.7	50 - 150	Y
PCB-209 DeCB	50	97.1	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 31 Mar 2014 18:50 Analyst: CM

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140326X06 Analysis Date: 26-MAR-2014 19:16:37  
 Lab ID: OPR1\_11892\_PCB-RJ

LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	73.9	15	-	140	Y
ES PCB-3	100	77.8	15	-	140	Y
ES PCB-4	100	89.5	30	-	140	Y
ES PCB-15	100	89.3	30	-	140	Y
ES PCB-19	100	88.6	30	-	140	Y
ES PCB-37	100	80.4	30	-	140	Y
ES PCB-54	100	91.3	30	-	140	Y
ES PCB-77	100	85.1	30	-	140	Y
ES PCB-81	100	83	30	-	140	Y
ES PCB-104	100	101	30	-	140	Y
ES PCB-105	100	87	30	-	140	Y
ES PCB-114	100	84.8	30	-	140	Y
ES PCB-118	100	88.1	30	-	140	Y
ES PCB-123	100	86.2	30	-	140	Y
ES PCB-126	100	86.8	30	-	140	Y
ES PCB-153	100	85.3	30	-	140	Y
ES PCB-155	100	84.5	30	-	140	Y
ES PCB-156/157	200	71.6	30	-	140	Y
ES PCB-167	100	72.3	30	-	140	Y
ES PCB-169	100	67.8	30	-	140	Y
ES PCB-170	100	85	30	-	140	Y
ES PCB-180	100	87.2	30	-	140	Y
ES PCB-188	100	97.7	30	-	140	Y
ES PCB-189	100	89.8	30	-	140	Y
ES PCB-202	100	91.5	30	-	140	Y
ES PCB-205	100	83.1	30	-	140	Y
ES PCB-206	100	87.8	30	-	140	Y
ES PCB-208	100	98	30	-	140	Y
ES PCB-209	100	81.2	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	84.8	40	-	125	Y
CS PCB-111	100	94.3	40	-	125	Y
CS PCB-178	100	109	40	-	125	Y

Processed: 31 Mar 2014 18:50 Analyst: CM

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 14-Mar-14 at 09:40  
**AP Project name:** A6504  
**Requested TAT:** 21 days  
**Projected due date:** 4-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** Amy.Boehm@sgs.com

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou Superfund Site  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** dpeterson@anchoragea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB020-1SWMID-140313-N (TOTAL)	A6504_001	WS	2	1L Amber	13-Mar-14	12:36	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB031.1-1SWMID-140313-N (TOTAL)	A6504_002	WS	2	1L Amber	13-Mar-14	13:25	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB047.3-1SWMID-140313-N (TOTAL)	A6504_003	WS	2	1L Amber	13-Mar-14	14:28	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB056_C-1SWMID-140313-N (TOTAL)	A6504_004	WS	2	1L Amber	13-Mar-14	15:45	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB056_C-1SWMID-140313-N (DISSOLVED)	A6504_005	WS	2	1L Amber	13-Mar-14	15:45	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
EF006.1-1SWMID-140313-N (TOTAL)	A6504_006	WS	2	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB119_B-1SWMID-140313-N (TOTAL)	A6504_007	WS	2	1L Amber	13-Mar-14	16:10	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
EB1-01 (TOTAL)	A6504_008	WS	2	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
EB1-01 (DISSOLVED)	A6504_009	WS	2	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
FB1-01	A6504_010	WS-ARCHIVE	1	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432

**Preservation Type:** Ice - Good Condition+Ice - **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6504

**PROJECT INFO:**

PROJECT: *Patrick Bayou Superfund Site*

PO. #:

QUOTE #: *040284-01.08*

SITE REF:

TURN AROUND TIME: *Standard*

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:  Other:

EDD:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Anchor QEA, LLC*  
 CONTACT: *Delaney Peterson*  
 ADDRESS: *720 Olive Way, Ste 300*  
*Seattle WA 98101*  
 PHONE: *206-287-9130*  
 EMAIL: *dpetuson@anchoragea.com*

**INVOICE TO:** (  CHECK IF SAME )

COMPANY: *PNL* CONTACT: *Bob Piniewski*  
 ADDRESS:  
 PHONE: *919-435-0934*  
 EMAIL: *bobp@projectnavigator.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE					
<i>none</i>	<i>HCl</i>	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>
ANALYSIS & METHOD					
<i>PEB Cong.</i>	<i>TOC</i>	<i>TSS</i>	<i>PEB Cong *</i>	<i>DOC **</i>	<i>Archive</i>

*\* Filter upon receipt*  
*\*\* Filter and preserve upon receipt*

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	PEB Cong.	TOC	TSS	PEB Cong *	DOC **	Archive	REMARKS
				MS	MSD	DUP										
	<i>PB020-7SWMID-140313-N</i>	<i>3/13/14</i>	<i>1236</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>  </i>	<i>  </i>	<i>  </i>				
	<i>PB031.1-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1325</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>  </i>	<i>  </i>	<i>  </i>				
	<i>PB047.3-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1428</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>  </i>	<i>  </i>	<i>  </i>				
	<i>PB056-C-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1545</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>  </i>	<i>  </i>	<i>  </i>	<i>  </i>	<i>  </i>		
	<i>FF006.1-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>  </i>	<i>  </i>	<i>  </i>				
	<i>PB119-B-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1610</i>				<i>G</i>	<i>WS</i>	<i>4</i>	<i>  </i>			<i>  </i>			
	<i>EBT-D1</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>1</i>							
	<i>EBT-D1</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>1</i>							

COLLECTED/RELINQUISHED BY (1): <i>Tom Case</i>	DATE: <i>3/13/14</i>	TIME: <i>1705</i>	RECEIVED BY: <i>FedEx</i>	RECEIVED BY LABORATORY: <i>Barbara Lager</i>	DATE: <i>14-mar-14</i>	TIME: <i>0940</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C <i>2.8, 2.1, 2.1</i>	CARRIER: <i>FedEx</i>
				TRACKING #:	NOTES:	

**SGS**

## Project Initiation Form

Project Number: A6504Initiation Date: 17-Mar-14Client Name: ANCHOR QEASample Matrix: AqueousAnalysis Method: 1668ATAT: 21 daysProject Manager: Amy

### Special Instructions

1668A w/ OPR  
Dissolved samples need to be filtered before extraction

### Reporting Instructions

1668A  
Anchor Equis EDD

PM Initials: akornega Date: 17-Mar-2014

TRANSFER: AN 3/21/14  
 RECEIVED: DS 3-21-14

SGS ANALYTICAL PERSPECTIVES		1668A		Water							
Project #	A6504	Batch #	11892	Extract Init/Date:	MC 3/18/14	SECS Init/Date:	AN 3/19/14	Transfer Init/Date:			
AP Sample ID	Client Sample ID	Volume (ml.)	Talex #	SDS #	RV		(Td)	Clean-up	Observations		
					#	Initials					
A6504_11892_001	PB020-1SWMID-140313-N (TOTAL)	971	3	-	3	AN	-	AN	yellowish, cloudy		
A6504_11892_002	PB031.1-1SWMID-140313-N (TOTAL)	979	4	-	4	AN	-	AN	yellowish, cloudy		
A6504_11892_003	PB047.3-1SWMID-140313-N (TOTAL)	971	5	-	1	AN	-	AN	yellowish, cloudy, some pm		
A6504_11892_004	PB056_C-1SWMID-140313-N (TOTAL)	966	6	-	2	AN	-	AN	yellowish, cloudy, some pm		
A6504_11892_005	PB056_C-1SWMID-140313-N (DISSOLVED)	961	7	-	4	AN	-	AN	yellowish		
A6504_11892_006	EF006.1-1SWMID-140313-N (TOTAL)	932	8	-	3	YB	-	AN	yellowish, cloudy		
A6504_11892_007	PB119_B-1SWMID-140313-N (TOTAL)	941	9	-	1	YB	-	AN	yellowish, some pm		
A6504_11892_008	EB1-01 (TOTAL)	965	10	-	2	YB	-	AN	clean, clear		
A6504_11892_009	EB1-01 (DISSOLVED)	897	11	-	4	YB	-	AN	clean, clear		
MB1_11892	Method Blank	1000	1	-	1	AN	-	AN	Talex DI H <sub>2</sub> O 02272014		
OPR1_11892	0_11892_OPR001	1000	2	-	2	AN	-	AN	Talex DI H <sub>2</sub> O 02272014		
					3/19/14			3/19/14			
Special Instructions:					Cycle Time			Supply IDs			
1668A w/ OPR Dissolved samples need to be filtered before extraction					Start: 10:25 am			Toluene	—	Acid Silica	03142014
					Stop: 1:10 pm			CH <sub>2</sub> Cl <sub>2</sub>	—	Base Silica	—
								Sand	—	HydroMatrix	—
								Florisil	—	Tetradecane	—
					Start:			Hexane	DJ1086 Na <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub>	02252014	
					Stop:			Silica	—	K Silicate	—





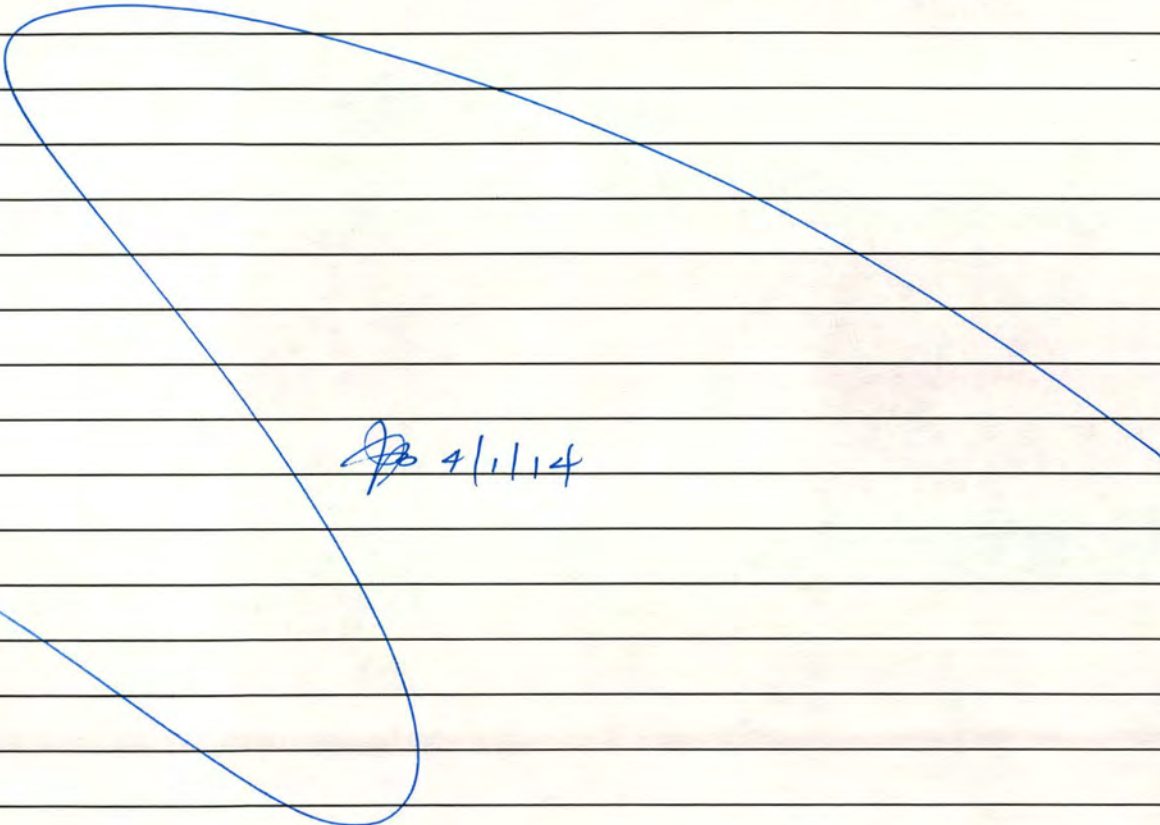
1668A

Aqueous

Project # A6504 Batch # 11892

**Inter-Department Communication Sheet**

Filtered Samples 005 and 009 with 0.7  $\mu$ m filter prior to extraction. -MK 4/1/14



~~AP~~ 4/1/14

**Special Instructions**

1668A w/ OPR  
Dissolved samples need to be filtered before extraction



Project #		Batch #		1668A		Water	
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
		MA 3/18/14	MA 3/18/14	MA 3/19/14	JLC 3/20/14		
AP Sample ID	Client Sample ID	PCB ES	PCB AX 209	PCB CS	PCB JS		
		Amount: 20 $\mu$ L Observer Initials	Amount: 20 $\mu$ L Observer Initials	Amount: 20 $\mu$ L Observer Initials	Amount: 10 $\mu$ L Observer Initials	Amount:	Observer Initials
A6504_11892_001	PB020-1SWMID-140313-N (TOTAL)	MK	-	a	a		
A6504_11892_002	PB031.1-1SWMID-140313-N (TOTAL)	MK	-	a	a		
A6504_11892_003	PB047.3-1SWMID-140313-N (TOTAL)	MK	-	a	a		
A6504_11892_004	PB056_C-1SWMID-140313-N (TOTAL)	MK	-	a	a		
A6504_11892_005	PB056_C-1SWMID-140313-N (DISSOLVED)	MK	-	a	a		
A6504_11892_006	EF006.1-1SWMID-140313-N (TOTAL)	MK	-	a	a		
A6504_11892_007	PB119_B-1SWMID-140313-N (TOTAL)	MK	-	a	a		
A6504_11892_008	EB1-01 (TOTAL)	MK	-	a	a		
A6504_11892_009	EB1-01 (DISSOLVED)	MK	-	a	a		
MB1_11892	Method Blank	MK	-	a	a		
OPR1_11892	0_11892_OPR001	MK	MK	a	a		
		3/18/14	3/18/14	3/19/14	3/20/14		
Standard Information							
Std. Type		PCB ES	AX 209		PCB CS/SS	PCB JS	
Spike ID		10292013B	10292013		10292031B	1029203A	
SIL #		13-96-1	13-78-1		13-96-2	13-78-1	
Concentration		100	50		100	200	
Units		pg/ $\mu$ L	pg/ $\mu$ L		pg/ $\mu$ L	pg/ $\mu$ L	
Exp. Date		12/19/14	10/29/14		12-19-14	10-29-14	
Spike amount ( $\mu$ L)		20	20		20	10	



# Sample Receipt Notification

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 14-Mar-14 at 09:40  
**AP Project name:** A6504  
**Requested TAT:** 21 days  
**Projected due date:** 4-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** Amy.Boehm@sgs.com

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou Superfund Site  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** dpeterson@anchoragea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB020-1SWMID-140313-N (TOTAL)	A6504_001	WS	2	1L Amber	13-Mar-14	12:36	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB031.1-1SWMID-140313-N (TOTAL)	A6504_002	WS	2	1L Amber	13-Mar-14	13:25	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB047.3-1SWMID-140313-N (TOTAL)	A6504_003	WS	2	1L Amber	13-Mar-14	14:28	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB056_C-1SWMID-140313-N (TOTAL)	A6504_004	WS	2	1L Amber	13-Mar-14	15:45	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB056_C-1SWMID-140313-N (DISSOLVED)	A6504_005	WS	2	1L Amber	13-Mar-14	15:45	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
EF006.1-1SWMID-140313-N (TOTAL)	A6504_006	WS	2	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
PB119_B-1SWMID-140313-N (TOTAL)	A6504_007	WS	2	1L Amber	13-Mar-14	16:10	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
EB1-01 (TOTAL)	A6504_008	WS	2	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
EB1-01 (DISSOLVED)	A6504_009	WS	2	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432
FB1-01	A6504_010	WS-ARCHIVE	1	1L Amber	13-Mar-14	15:00	2.8, 2.1, 2.1	1, 2, 3	870464717440, 798214382421, 798214382432

**Preservation Type:** Ice - Good Condition+Ice - **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6504

**PROJECT INFO:**

PROJECT: *Patrick Bayou Superfund Site*

PO. #:

QUOTE #:

SITE REF: *040284-01.08*

TURN AROUND TIME: *Standard*

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:

EDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Anchor QEA, LLC*

CONTACT: *Delaney Peterson*

ADDRESS: *720 Olive Way, Ste 300  
Seattle WA 98101*

PHONE: *206-267-9130*

EMAIL: *dpeterson@anchoragea.com*

INVOICE TO: ( CHECK IF SAME)

COMPANY: *PNL*

CONTACT: *Bob Piniewski*

ADDRESS:

PHONE: *919-435-0934*

EMAIL: *bobp@projectnavigator.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE									
<i>none</i>	<i>HCl</i>	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>				
ANALYSIS & METHOD									
<i>PEB Cong.</i>	<i>TOC</i>	<i>TSS</i>	<i>PEB Cong.*</i>	<i>DOC**</i>	<i>Archive</i>				

*\* Filter upon receipt  
\*\* Filter and preserve upon receipt*

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	PEB Cong.	TOC	TSS	PEB Cong.*	DOC**	Archive
				MS	MSD	DUP									
	<i>PB020-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1236</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>			
	<i>PB031.1-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1325</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>			
	<i>PB047.3-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1428</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>			
	<i>PB056-C-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1545</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>11</i>	<i>11</i>	<i>1</i>	<i>11</i>	<i>11</i>	
	<i>FE006.1-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>			
	<i>PB119-B-15WMID-140313-N</i>	<i>3/13/14</i>	<i>1610</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>			
	<i>EBT01</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>4</i>	<i>11</i>			<i>11</i>		
	<i>FBI01</i>	<i>3/13/14</i>	<i>1500</i>				<i>G</i>	<i>WS</i>	<i>1</i>					<i>1</i>	

COLLECTED/RELINQUISHED BY (1): <i>Tom Kase</i> <i>Jasca Kase</i>	DATE: <i>3/13/14</i>	TIME: <i>1705</i>	RECEIVED BY: <i>FedEx</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:

RECEIVED BY LABORATORY: <i>Barbara Lager</i>	DATE: <i>14-mar-14</i>	TIME: <i>0940</i>
COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		
SAMPLE RECEIPT TEMP: °C <i>2.8, 2.1, 2.1</i>		
CARRIER: <i>FedEx</i>	TRACKING #:	
NOTES:		

## SGS Analytical Perspectives — Run Log

Project: A6504\_11892\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
5	140326X05	Tray1:03	CS3_140326_PCB_XC	1.00	SIL 13-73-3	LKB, CEM	507-144	26-Mar-2014	18:21:41
6	140326X06	Tray1:32	OPR1_11892_PCB-RJ	1.00	0_11892_OPR001	LKB, CEM	678-882	26-Mar-2014	19:16:37
7	140326X07	Tray1:02	SBS_140326_PCB_XB	1.00	SIL 13-42-1	LKB, CEM	654-631	26-Mar-2014	20:11:52
8	140326X08	Tray1:33	MB1_11892_PCB_TLX	1.00	Method Blank	LKB, CEM	967-196	26-Mar-2014	21:07:05
9	140326X09	Tray1:34	A6504_11892_PCB_001	0.97	PB020-1SWMID-140313-N (TOTAL)	LKB, CEM	320-870	26-Mar-2014	22:02:20
10	140326X10	Tray1:35	A6504_11892_PCB_002	0.98	PB031.1-1SWMID-140313-N (TOTAL)	LKB, CEM	645-564	26-Mar-2014	22:57:34
11	140326X11	Tray1:36	A6504_11892_PCB_003	0.97	PB047.3-1SWMID-140313-N (TOTAL)	LKB, CEM	786-548	26-Mar-2014	23:52:48
12	140326X12	Tray1:37	A6504_11892_PCB_004	0.97	PB056_C-1SWMID-140313-N (TOTAL)	LKB, CEM	848-343	27-Mar-2014	00:47:55
13	140326X13	Tray1:38	A6504_11892_PCB_005	0.96	PB056_C-1SWMID-140313-N (DISSOLVED)	LKB, CEM	681-037	27-Mar-2014	01:43:07
14	140326X14	Tray1:39	A6504_11892_PCB_006	0.93	EF006.1-1SWMID-140313-N (TOTAL)	LKB, CEM	889-569	27-Mar-2014	02:38:21
15	140326X15	Tray1:40	A6504_11892_PCB_007	0.94	PB119_B-1SWMID-140313-N (TOTAL)	LKB, CEM	251-126	27-Mar-2014	03:33:35
16	140326X16	Tray1:41	A6504_11892_PCB_008	0.97	EB1-01 (TOTAL)	LKB, CEM	842-903	27-Mar-2014	04:28:49
17	140326X17	Tray1:42	A6504_11892_PCB_009	0.90	EB1-01 (DISSOLVED)	LKB, CEM	490-847	27-Mar-2014	05:24:04
1	140328X01	Tray1:03	CS3_140328_PCB_XA	1.00	SIL 13-73-3	LKB, CEM	523-232	28-Mar-2014	10:43:57
3	140328X03	Tray1:02	SBS_140328_PCB_XA	1.00	SIL 13-42-1	LKB, CEM	851-325	28-Mar-2014	12:34:10
5	140328X05	Tray1:42	A6504_11892_PCB_009-RJ2	0.90	EB1-01 (DISSOLVED)	LKB, CEM	477-807	28-Mar-2014	14:24:30

Lab ID: MB1\_11892\_PCB\_TLX

ACQ: 26-Mar-2014 21:07:05 LKB

Wt/Vol: 1.00 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140326\_PCB\_XC

Client ID: Method Blank A6504

UTP: 31-Mar-2014 13:54 CEM

J-level: 10 pg/L Split: 1

Checkcode: 967-196-GFH

Datafile: 140326X08

RPT: 31-Mar-2014 18:54 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	3.07E+03	1.65
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.07E+03	1.74
PCB-105 233'44'-PeCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	2.64E+03	1.8
PCB-114 2344'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.20	ND	2.64E+03	1.71
PCB-118 23'44'5'-PeCB	34.79	J	1.0006	1.0009	+0.6	3.99E+04	0.71	1.19	2.52	2.64E+03	1.77
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	2.64E+03	1.62
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.02E+03	1.55
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.55E+03	1.71
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.55E+03	1.12
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.55E+03	1.29
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.65E+03	1.55
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.10E+03	1.61
ES PCB-1	11.88		0.7244	0.7243	-0.1	3.49E+07	3.25	1.19	60.5 %	15%	150%
ES PCB-3	14.17		0.8639	0.8639	0	3.71E+07	3.35	1.09	70.7 %	15%	150%
ES PCB-4	14.42		0.8794	0.8793	-0.1	1.98E+07	1.57	0.52	78.2 %	25%	150%
ES PCB-15	20.13		1.2273	1.2276	+0.4	4.69E+07	1.58	1.04	93.2 %	25%	150%
ES PCB-19	17.51		1.0673	1.0673	0	2.21E+07	1.06	0.51	90.2 %	25%	150%
ES PCB-37	26.46		1.0788	1.0789	+0.2	3.64E+07	1.09	1.66	81.2 %	25%	150%
ES PCB-54	20.42		0.8328	0.8326	-0.2	2.15E+07	0.75	0.86	92.5 %	25%	150%
ES PCB-77	32.78		1.3366	1.3369	+0.6	3.21E+07	0.79	1.38	86 %	25%	150%
ES PCB-81	32.31		1.3172	1.3174	+0.4	3.12E+07	0.78	1.37	84.4 %	25%	150%
ES PCB-104	25.39		0.8324	0.8323	-0.2	2.14E+07	1.57	0.80	107 %	25%	150%
ES PCB-105	35.77		1.1721	1.1723	+0.4	2.71E+07	1.57	1.20	90.5 %	25%	150%
ES PCB-114	35.23		1.1544	1.1546	+0.4	2.72E+07	1.65	1.22	89.6 %	25%	150%
ES PCB-118	34.76		1.1392	1.1393	+0.2	2.66E+07	1.58	1.16	92.4 %	25%	150%
ES PCB-123	34.48		1.1300	1.1301	+0.2	2.67E+07	1.59	1.19	90.3 %	25%	150%
ES PCB-126	38.38		1.2577	1.2578	+0.2	2.30E+07	1.52	1.03	90 %	25%	150%
ES PCB-153	36.34		0.9716	0.9716	0	1.97E+07	1.22	1.11	87.9 %	25%	150%
ES PCB-155	30.34		0.8113	0.8112	-0.2	2.81E+07	1.26	1.59	88.6 %	25%	150%
ES PCB-156/157	40.92		1.0940	1.0941	+0.2	4.70E+07	1.27	1.60	73.6 %	25%	150%
ES PCB-167	39.94		1.0677	1.0678	+0.2	2.47E+07	1.29	1.67	74.1 %	25%	150%
ES PCB-169	43.64		1.1666	1.1666	0	2.18E+07	1.24	1.56	70.2 %	25%	150%
ES PCB-170	43.15		0.9080	0.9080	0	1.45E+07	1.09	0.95	90.1 %	25%	150%
ES PCB-180	42.09		0.8855	0.8855	0	1.79E+07	1.07	1.14	92.7 %	25%	150%
ES PCB-188	35.22		0.7411	0.7410	-0.2	1.95E+07	1.04	0.94	104 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	2.11E+07	1.02	1.58	93.8 %	25%	150%
ES PCB-202	39.75		0.8365	0.8365	0	1.83E+07	0.89	0.97	94.4 %	25%	150%
ES PCB-205	47.93		1.0084	1.0084	0	1.57E+07	0.86	1.24	88.7 %	25%	150%
ES PCB-206	49.39		1.0392	1.0392	0	1.12E+07	0.78	0.83	94.8 %	25%	150%
ES PCB-208	45.38		0.9548	0.9548	0	1.76E+07	0.79	1.17	106 %	25%	150%
ES PCB-209	50.83		1.0694	1.0695	+0.3	1.39E+07	1.18	1.11	88.5 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.90		0.9339	0.9339	0	4.19E+07	1.09	1.11	103 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	2.88E+07	1.56	1.03	105 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	1.25E+07	1.09	0.62	104 %	30%	135%
CS PCB-28	22.90		0.9339	0.9339	0	4.19E+07	1.09	1.85	84 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	2.88E+07	1.56	1.22	94.7 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	1.25E+07	1.09	0.58	108 %	30%	135%
JS PCB-9	16.40					4.84E+07	1.59				
JS PCB-52	24.52					2.70E+07	0.79				
JS PCB-101	30.51					2.49E+07	1.63				
JS PCB-138	37.41					2.00E+07	1.29				
JS PCB-194	47.53					1.42E+07	0.92				
<b>Totals</b>											
						<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
						Mono-CBs	0	0		2.15	
						Di-CBs	8.96	8.96		3.05	
						Tri-CBs	0	4.77		3.36	
						Tetra-CBs	4.85	12.3		1.62	
						Penta-CBs	6.65	13.2		1.62	
						Hexa-CBs	5.66	8.22		1.25	
						Hepta-CBs	0	0		1.6	
						Octa-CBs	0	0		1.52	
						Nona-CBs	0	0		3.42	
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00		0.95	ND	5.56E+03	2.18
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	5.56E+03	1.91
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00		1.01	ND	5.56E+03	2.12
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00		1.23	ND	5.57E+03	3.26
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	5.57E+03	2.1
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00		0.96	ND	5.57E+03	3.02
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	7.75E+03	2.64
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.01	ND	7.75E+03	2.86
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	7.75E+03	2.87
PCB-8 24'-DiCB	NotFnd		1.0505	-		0.00E+00		1.06	ND	7.75E+03	2.73
PCB-14 35'-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	7.75E+03	2.39
PCB-11 33'-DiCB	19.57	J	0.9721	0.9720	-0.1	2.23E+05	1.47	1.06	8.96	7.75E+03	2.72
PCB-13/12 34' /34'-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.05	ND	7.75E+03	2.76
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.02	ND	7.75E+03	2.84
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00		1.15	ND	5.89E+03	3.89
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1015	-		0.00E+00		1.54	ND	5.89E+03	2.9
PCB-17 22'4-TrCB	NotFnd		1.1244	-		0.00E+00		1.32	ND	5.89E+03	3.39
PCB-27 23'6-TrCB	NotFnd		1.1354	-		0.00E+00		1.79	ND	5.89E+03	2.49
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	5.89E+03	2.61
PCB-16 22'3-TrCB	NotFnd		1.1485	-		0.00E+00		0.98	ND	5.89E+03	4.56



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1759	-		0.00E+00		1.92	ND	5.89E+03	2.32
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.23	ND	5.39E+03	2.48
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	5.39E+03	2.45
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8382	-		0.00E+00		1.27	ND	5.39E+03	2.41
PCB-25 23'4-TrCB	NotFnd		0.8457	-		0.00E+00		1.27	ND	5.39E+03	2.4
PCB-31 24'5-TrCB	22.66	EMPC	0.8562	0.8563	+0.1	5.51E+04	1.47	1.33	2.28	5.39E+03	2.3
PCB-28/20 244'/233'-TrCB	22.92	J EMPC C	0.8669	0.8664	-0.7	5.60E+04	1.30	1.23	2.49	5.39E+03	2.47
PCB-21/33 234/23'4'-TrCB	NotFnd	C	0.8738	-		0.00E+00		1.27	ND	5.39E+03	2.41
PCB-22 234'-TrCB	NotFnd		0.8879	-		0.00E+00		1.18	ND	5.39E+03	2.58
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	5.39E+03	2.36
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	5.39E+03	2.28
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	5.39E+03	2.51
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.17	ND	5.39E+03	2.61
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	5.39E+03	2.83
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	2.07E+03	1.23
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9145	-		0.00E+00		0.91	ND	2.45E+03	1.72
PCB-45 22'36-TeCB	NotFnd		0.9385	-		0.00E+00		0.82	ND	2.45E+03	1.9
PCB-51 22'46'-TeCB	NotFnd		0.9414	-		0.00E+00		0.88	ND	2.45E+03	1.78
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.73	ND	2.45E+03	2.12
PCB-52 22'55'-TeCB	24.54	J EMPC	1.0009	1.0008	-0.1	6.10E+04	0.91	0.89	4.39	2.45E+03	1.75
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.45E+03	1.33
PCB-43 22'35-TeCB	NotFnd		1.0100	-		0.00E+00		0.76	ND	2.45E+03	2.04
PCB-69/49 23'46/22'45'-TeCB	24.97	J C	1.0181	1.0184	+0.4	3.39E+04	0.89	1.09	2	2.45E+03	1.43
PCB-48 22'45-TeCB	NotFnd		1.0296	-		0.00E+00		0.89	ND	2.45E+03	1.75
PCB-44/47/65 ...-TeCB	25.45	J EMPC C	1.0384	1.0377	-1.1	4.54E+04	1.10	0.95	3.07	2.45E+03	1.64
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0497	-		0.00E+00		1.24	ND	2.45E+03	1.25
PCB-42 22'34'-TeCB	NotFnd		1.0563	-		0.00E+00		0.82	ND	2.45E+03	1.91
PCB-41 22'34-TeCB	NotFnd		1.0700	-		0.00E+00		0.75	ND	2.45E+03	2.08
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0738	-		0.00E+00		0.91	ND	2.45E+03	1.72
PCB-64 234'6-TeCB	NotFnd		1.0819	-		0.00E+00		1.31	ND	2.45E+03	1.19
PCB-72 23'55'-TeCB	NotFnd		0.8435	-		0.00E+00		1.27	ND	3.07E+03	1.54
PCB-68 23'45'-TeCB	NotFnd		0.8514	-		0.00E+00		1.32	ND	3.07E+03	1.47
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.21	ND	3.07E+03	1.62
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	3.07E+03	1.6
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.29	ND	3.07E+03	1.51
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.36	ND	3.07E+03	1.43
PCB-61/70/74/76 ...-TeCB	28.77	J C	0.8901	0.8904	+0.5	5.42E+04	0.71	1.22	2.85	3.07E+03	1.6
PCB-66 23'44'-TeCB	NotFnd		0.8988	-		0.00E+00		1.17	ND	3.07E+03	1.66
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	3.07E+03	1.69
PCB-56 233'4'-TeCB	NotFnd		0.9168	-		0.00E+00		1.16	ND	3.07E+03	1.68
PCB-60 2344'-TeCB	NotFnd		0.9228	-		0.00E+00		1.17	ND	3.07E+03	1.67
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	3.07E+03	1.41
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.32	ND	3.07E+03	1.48
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	3.07E+03	1.75
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	2.08E+03	1.3
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.17	ND	2.08E+03	1.6
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	2.64E+03	2.06
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.80	ND	2.64E+03	2.45

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.00	J EMPC	0.9176	0.9176	0	4.43E+04	0.76	0.87	3.83	2.64E+03	2.26
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	2.64E+03	2.24
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		0.88	ND	2.64E+03	2.23
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	2.64E+03	2.3
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	2.64E+03	2.32
PCB-91 22'34'6-PeCB	NotFnd		0.9425	-		0.00E+00		0.86	ND	2.64E+03	2.29
PCB-84 22'33'6-PeCB	NotFnd		0.9487	-		0.00E+00		0.72	ND	2.64E+03	2.73
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.78	ND	2.64E+03	2.52
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.64E+03	1.61
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.84	ND	2.64E+03	2.33
PCB-113/90/101 ...-PeCB	30.53	J C	0.9999	1.0008	+1.6	5.36E+04	0.56	0.97	4.13	2.64E+03	2.02
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.66	ND	2.64E+03	2.97
PCB-99 22'44'5-PeCB	NotFnd		1.0173	-		0.00E+00		0.98	ND	2.64E+03	2
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	2.64E+03	1.7
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0320	-		0.00E+00		0.98	ND	2.64E+03	2.01
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	2.64E+03	1.81
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0525	-		0.00E+00		0.97	ND	2.64E+03	2.03
PCB-110 233'4'6-PeCB	32.23	J EMPC	1.0563	1.0563	0	4.05E+04	0.78	1.10	2.77	2.64E+03	1.79
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	2.64E+03	1.75
PCB-82 22'33'4-PeCB	NotFnd		1.0656	-		0.00E+00		0.69	ND	2.64E+03	2.83
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	2.64E+03	1.63
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	2.64E+03	1.61
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.10	ND	2.64E+03	1.79
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.22	ND	2.64E+03	1.61
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	2.64E+03	1.81
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	2.64E+03	2.03
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	2.64E+03	1.88
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.53E+03	0.869
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.53E+03	1.01
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.53E+03	0.978
PCB-136 22'33'66'-HxCB	NotFnd		1.0207	-		0.00E+00		1.02	ND	1.53E+03	1.07
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.53E+03	1.06
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.53E+03	1.35
PCB-151/135 ...-HxCB	NotFnd	C	1.0886	-		0.00E+00		1.06	ND	1.53E+03	1.43
PCB-154 22'44'56'-HxCB	NotFnd		1.0955	-		0.00E+00		1.26	ND	1.53E+03	1.21
PCB-144 22'345'6-HxCB	NotFnd		1.1042	-		0.00E+00		1.10	ND	1.53E+03	1.37
PCB-147/149 ...-HxCB	33.80	J EMPC C	1.1142	1.1141	-0.2	2.77E+04	1.74	1.10	2.56	1.53E+03	1.38
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.81	ND	1.53E+03	1.86
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.53E+03	1.39
PCB-139/140 ...-HxCB	NotFnd	C	1.1313	-		0.00E+00		1.11	ND	1.53E+03	1.36
PCB-131 22'33'46-HxCB	NotFnd		1.1370	-		0.00E+00		0.94	ND	1.53E+03	1.61
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.53E+03	1.64
PCB-132 22'33'46'-HxCB	NotFnd		1.1495	-		0.00E+00		0.97	ND	1.53E+03	1.56
PCB-133 22'33'55'-HxCB	NotFnd		1.1628	-		0.00E+00		1.04	ND	1.53E+03	1.46
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.53E+03	1.15
PCB-146 22'34'55'-HxCB	NotFnd		0.9582	-		0.00E+00		1.16	ND	1.53E+03	1.31
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.53E+03	1.07
PCB-153/168 ...-HxCB	36.37	J C	0.9728	0.9723	-1.1	3.86E+04	1.07	1.38	2.84	1.53E+03	1.1

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9767	-		0.00E+00		1.01	ND	1.53E+03	1.5
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.91	ND	1.53E+03	1.67
PCB-137 22'344'5'-HxCB	NotFnd		0.9912	-		0.00E+00		1.15	ND	1.53E+03	1.32
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9934	-		0.00E+00		1.37	ND	1.53E+03	1.11
PCB-163/138/129 ...-HxCB	37.43	J C	1.0011	1.0006	-1.1	3.12E+04	1.34	1.12	2.82	1.53E+03	1.35
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.53E+03	1.2
PCB-158 233'44'6'-HxCB	NotFnd		1.0096	-		0.00E+00		1.49	ND	1.53E+03	1.02
PCB-128/166 ...-HxCB	NotFnd	C	0.9640	-		0.00E+00		0.89	ND	1.55E+03	1.47
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.55E+03	1.21
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.55E+03	1.22
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.29E+03	1.04
PCB-179 22'33'566'-HpCB	NotFnd		1.0086	-		0.00E+00		1.09	ND	1.29E+03	1.22
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.29E+03	1.27
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.15	ND	1.29E+03	1.15
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.29E+03	1.23
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0733	-		0.00E+00		0.75	ND	1.29E+03	1.76
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0888	-		0.00E+00		1.09	ND	1.66E+03	1.81
PCB-187 22'34'55'6'-HpCB	NotFnd		1.0953	-		0.00E+00		1.17	ND	1.66E+03	1.7
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.66E+03	1.66
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1101	-		0.00E+00		1.23	ND	1.66E+03	1.61
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.05	ND	1.66E+03	1.89
PCB-174 22'33'456'-HpCB	NotFnd		1.1156	-		0.00E+00		1.01	ND	1.66E+03	1.97
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1263	-		0.00E+00		0.96	ND	1.66E+03	2.07
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.66E+03	1.84
PCB-171/173 ...-HpCB	NotFnd	C	1.1414	-		0.00E+00		0.95	ND	1.66E+03	2.1
PCB-172 22'33'455'-HpCB	NotFnd		0.9079	-		0.00E+00		0.99	ND	1.66E+03	2
PCB-192 233'455'6'-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.66E+03	1.54
PCB-180/193 ...-HpCB	NotFnd	C	0.9193	-		0.00E+00		1.23	ND	1.66E+03	1.61
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.66E+03	1.47
PCB-170 22'33'44'5'-HpCB	NotFnd		0.9434	-		0.00E+00		1.12	ND	1.66E+03	2.24
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.54	ND	1.66E+03	1.62
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.33E+03	1.48
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.33E+03	1.4
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.33E+03	1.5
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.33E+03	1.43
PCB-200 22'33'4566'-OcCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.33E+03	1.44
PCB-198/199 ...-OcCB	NotFnd	C	1.1002	-		0.00E+00		0.72	ND	1.33E+03	2.16
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1147	-		0.00E+00		0.76	ND	1.33E+03	2.05
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1189	-		0.00E+00		0.78	ND	1.33E+03	2
PCB-195 22'33'44'56-OcCB	NotFnd		0.9516	-		0.00E+00		0.75	ND	1.23E+03	2.19
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.81	ND	1.23E+03	2.02
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.23E+03	1.55
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.51E+03	2.72
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.14	ND	2.51E+03	2.69
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.51E+03	4.12

SGS-AP ID: MB1\_11892\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

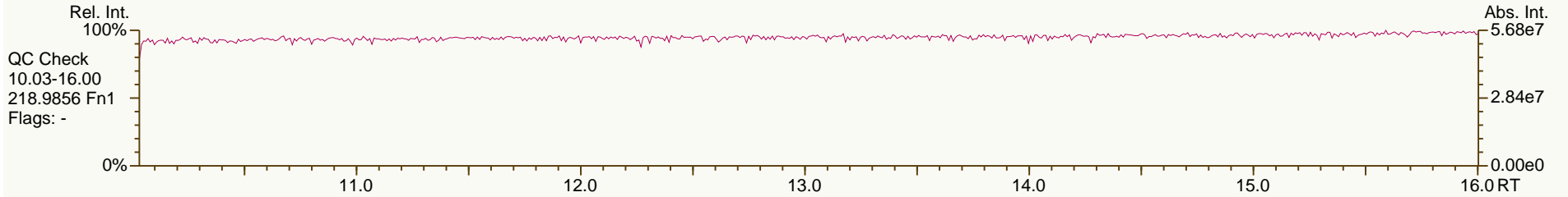
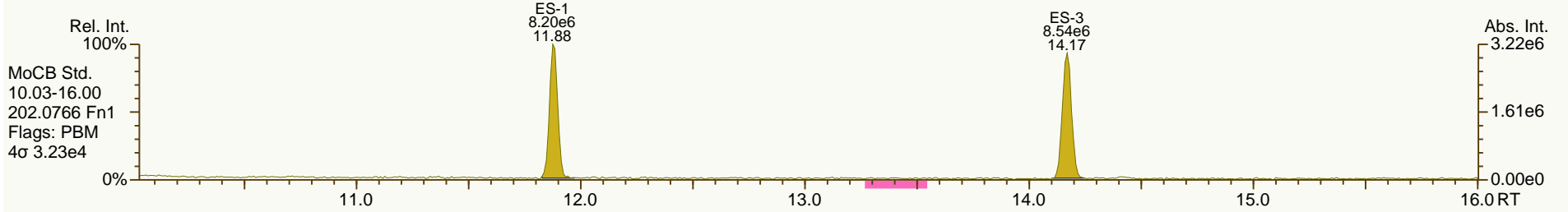
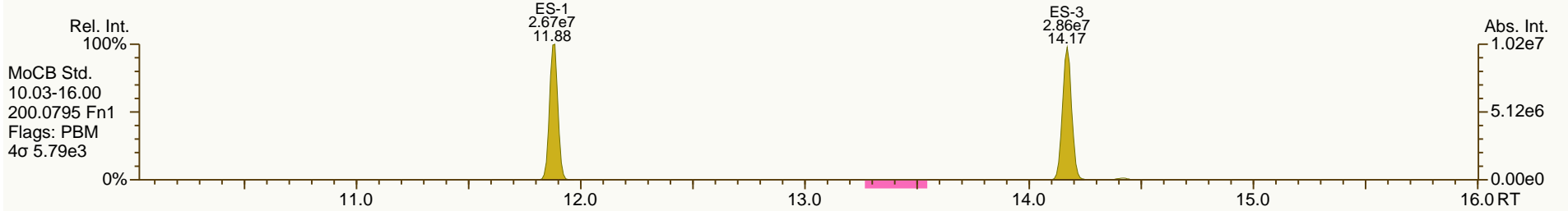
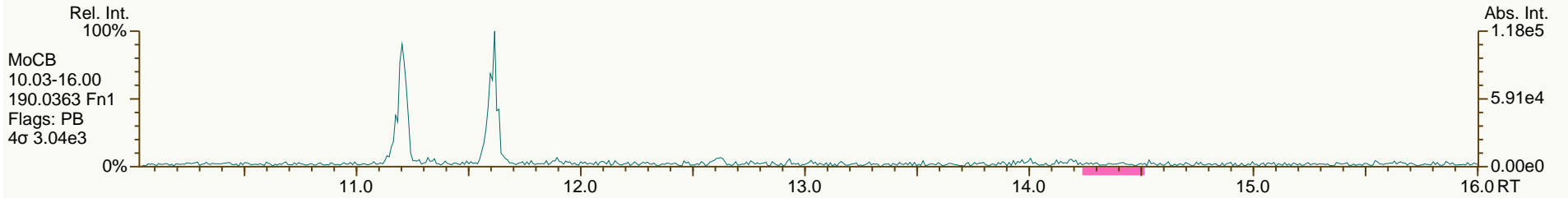
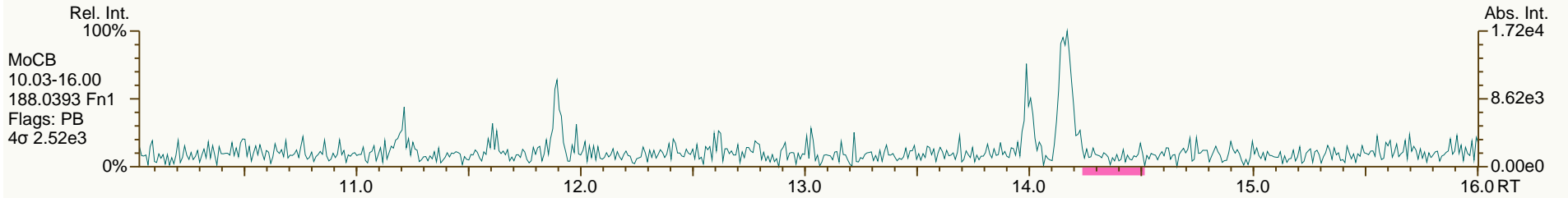
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
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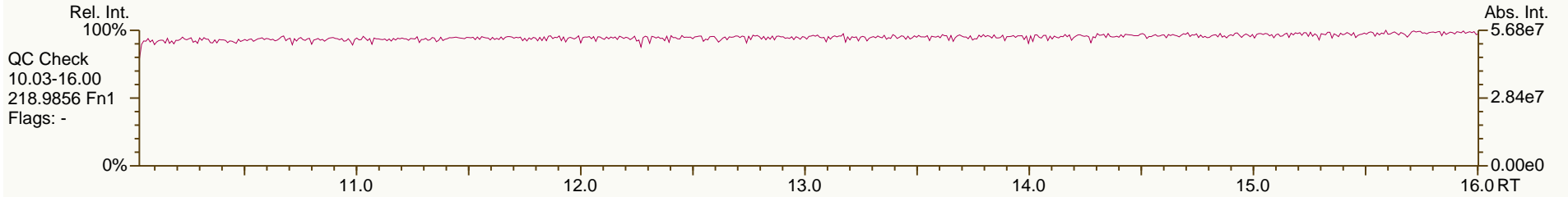
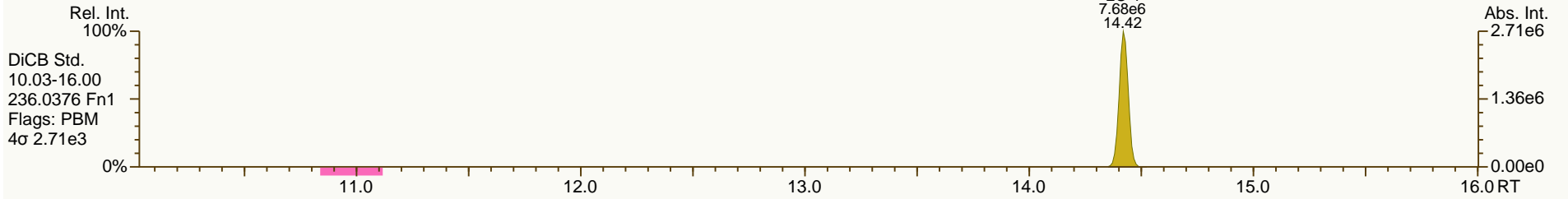
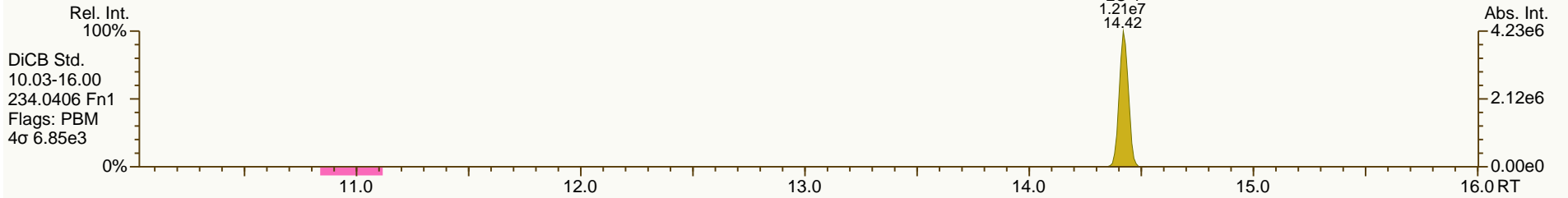
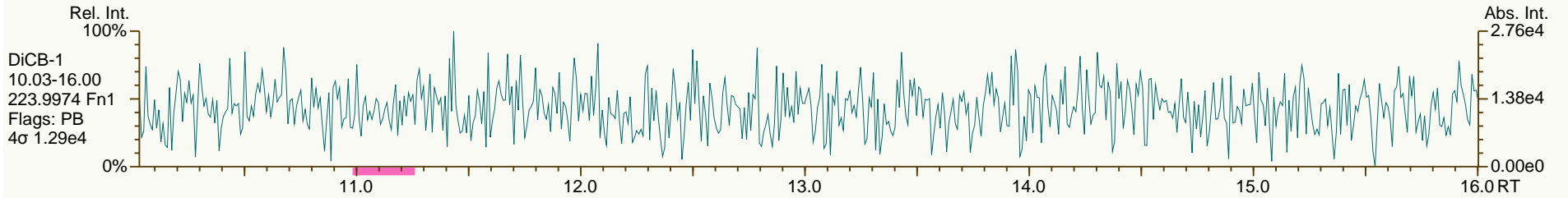
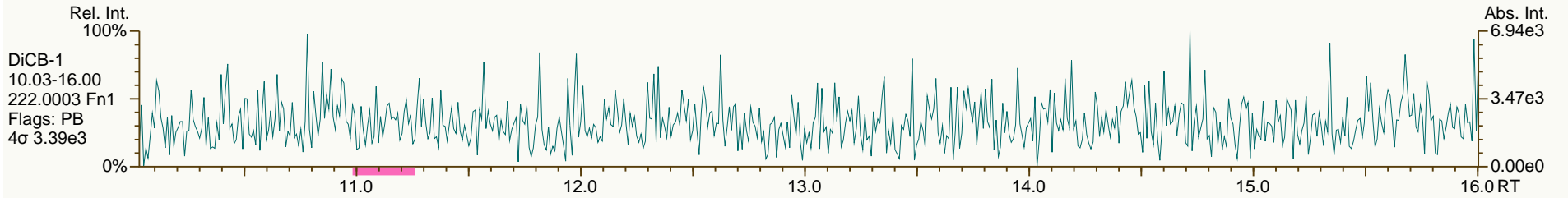
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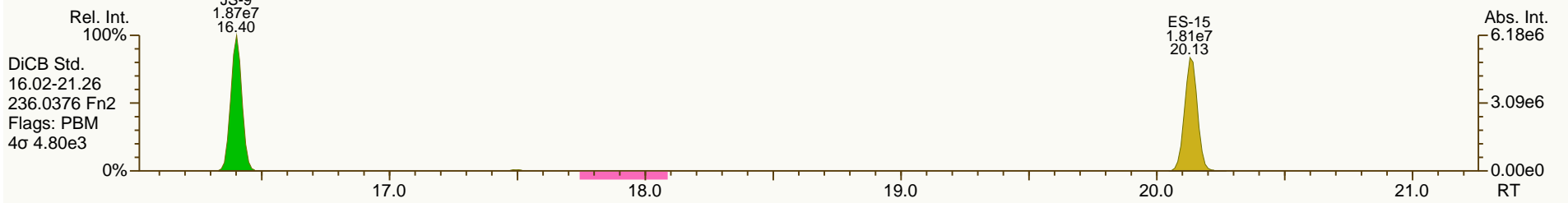
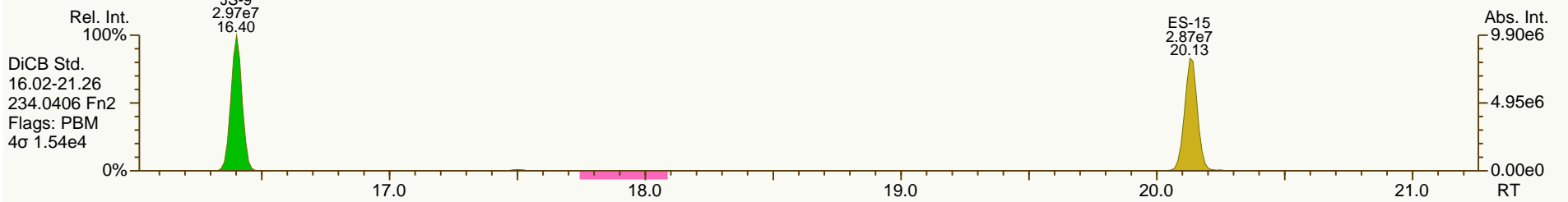
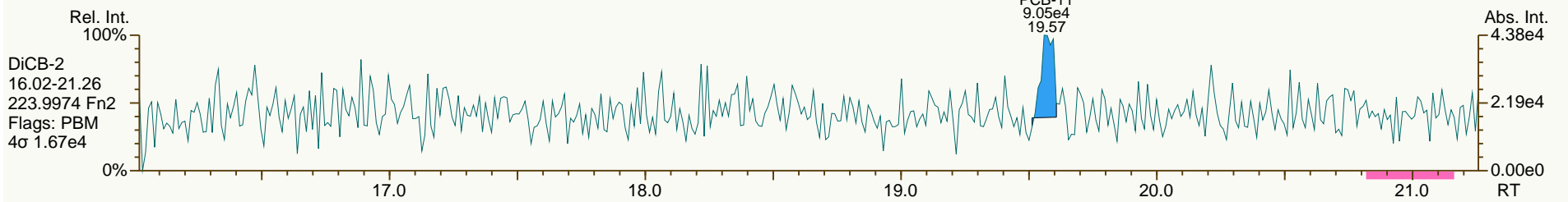
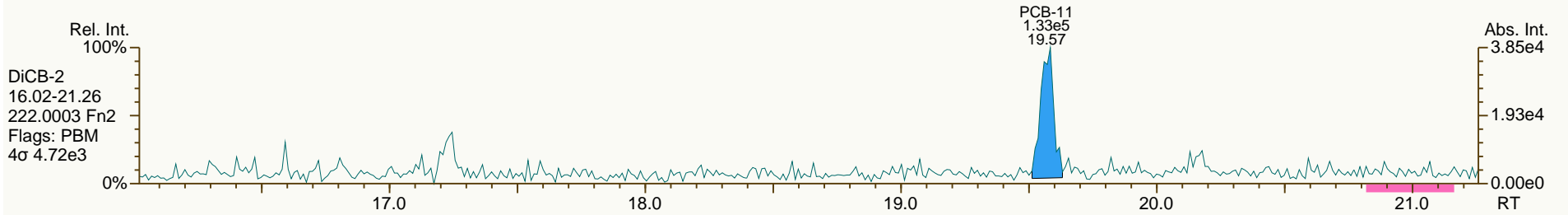
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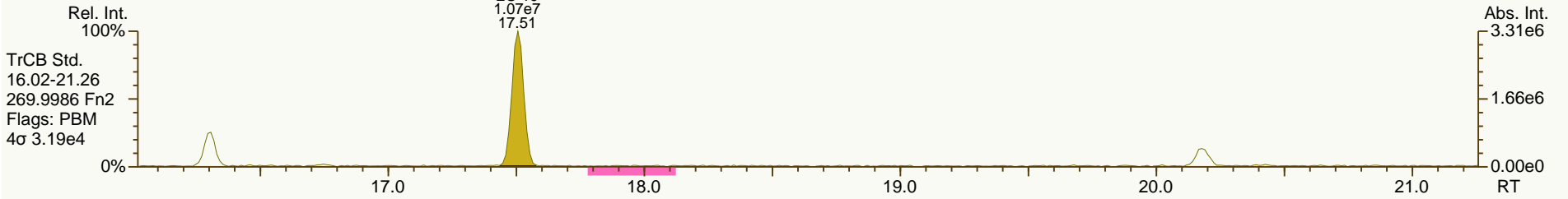
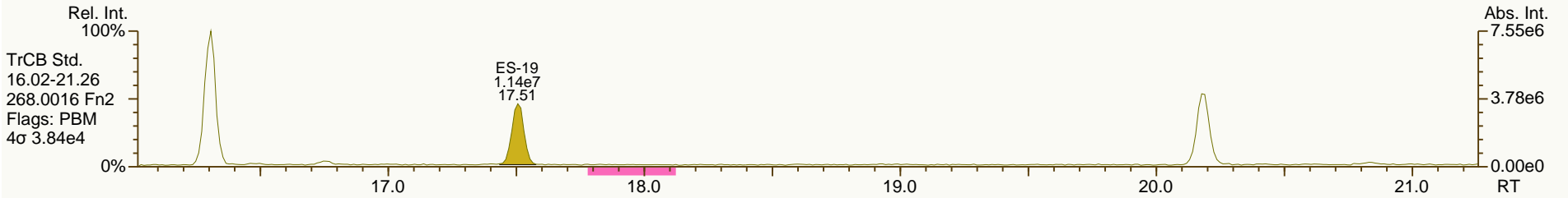
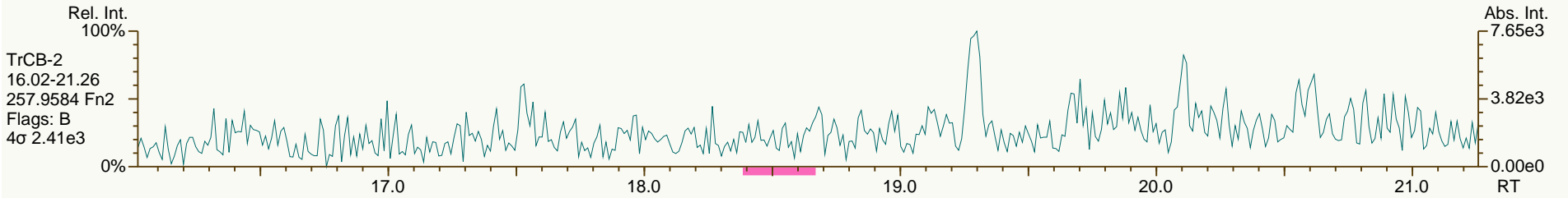
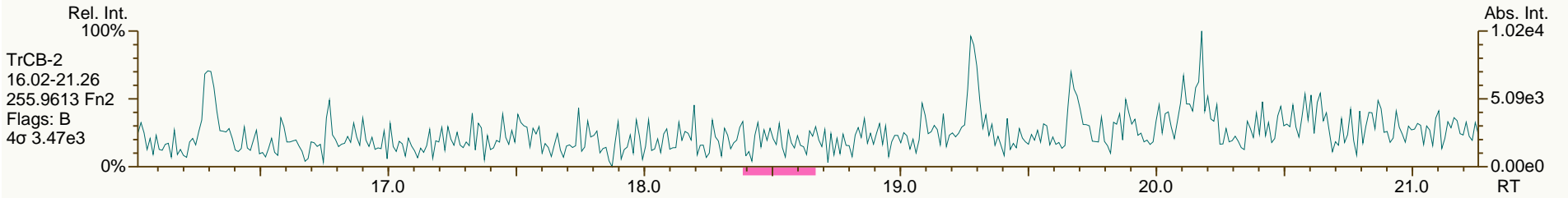
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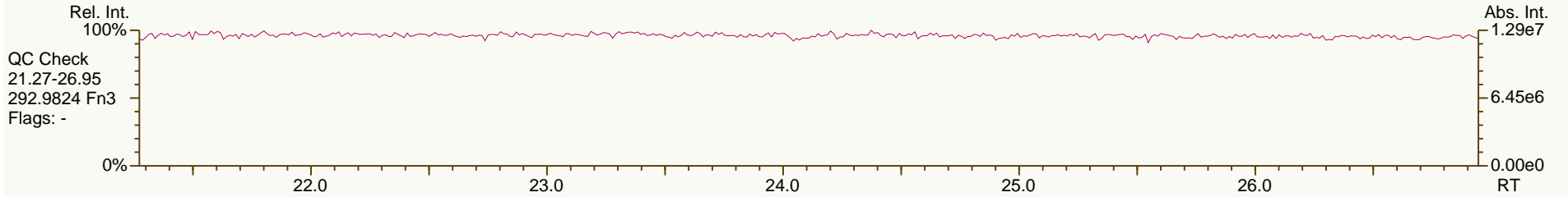
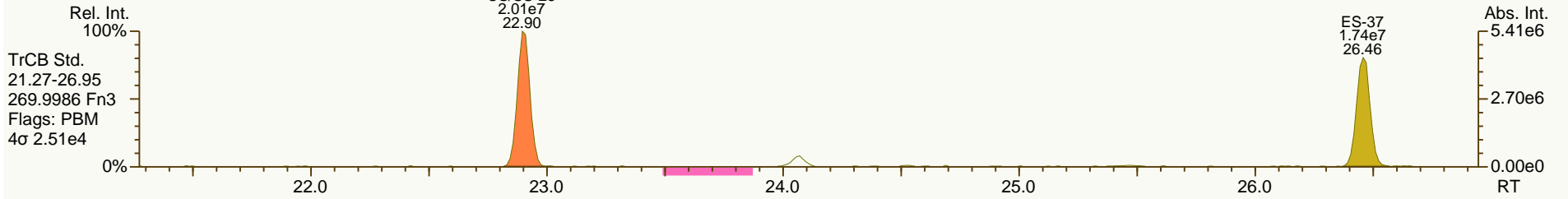
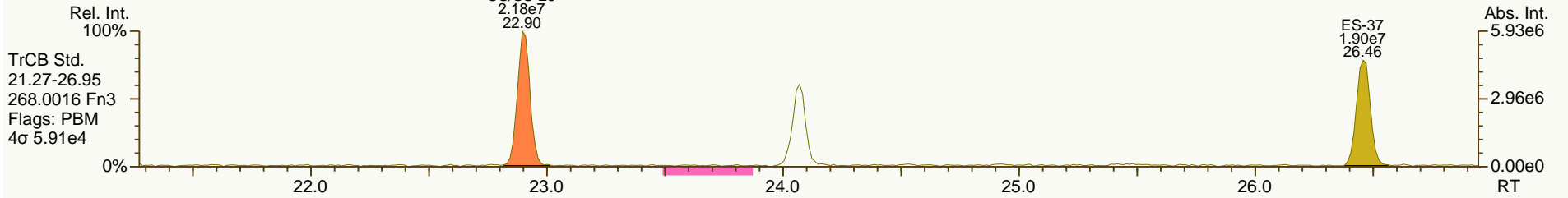
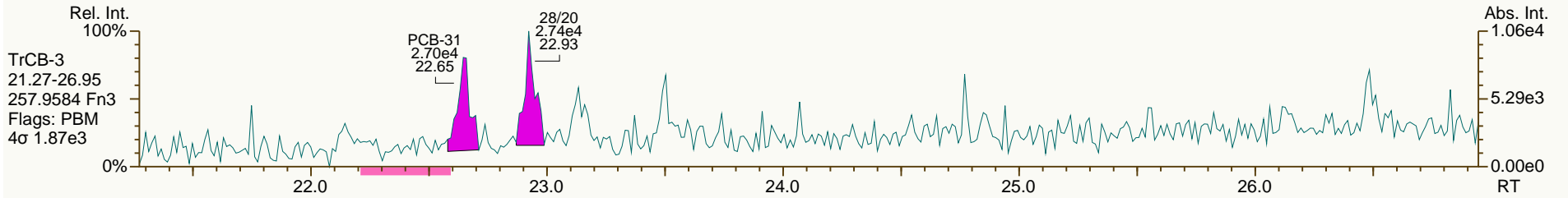
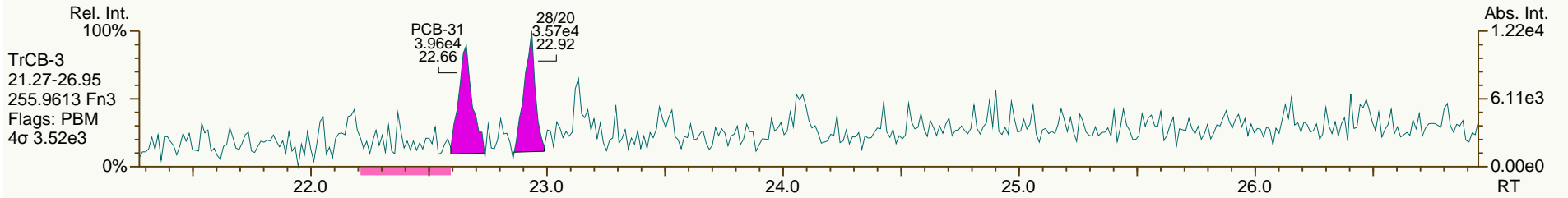




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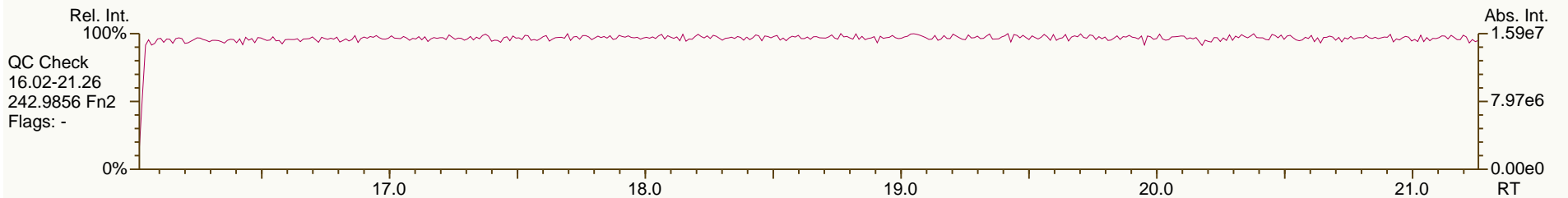
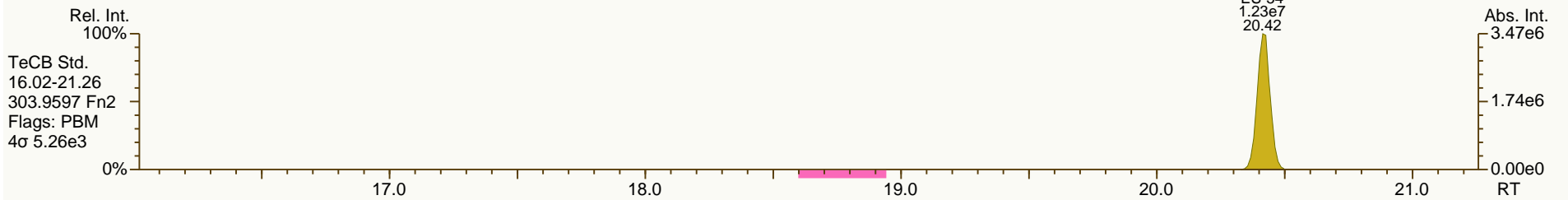
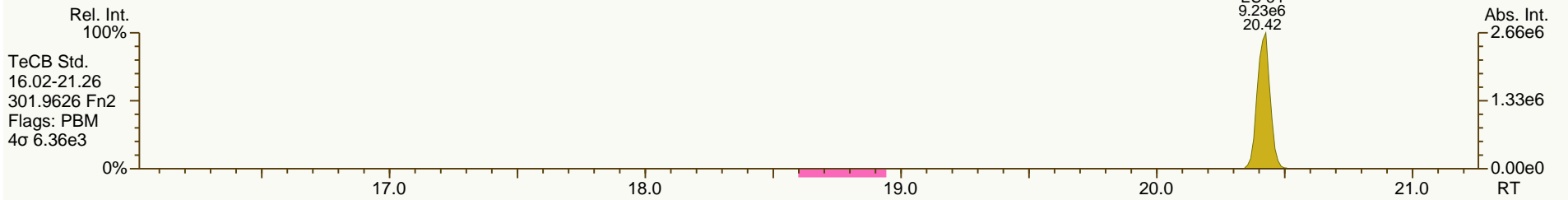
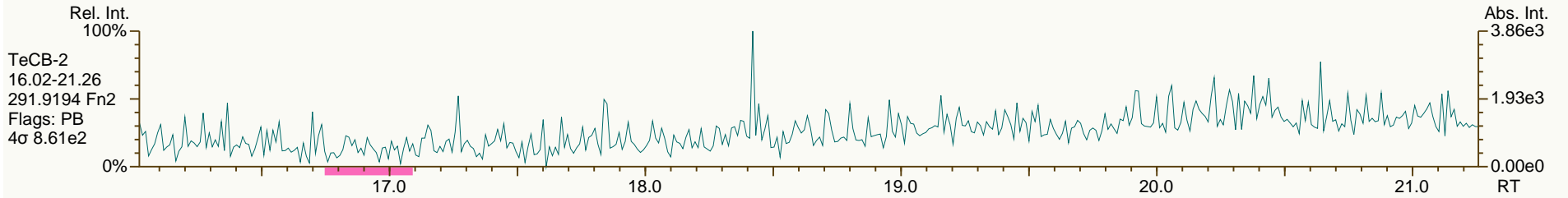
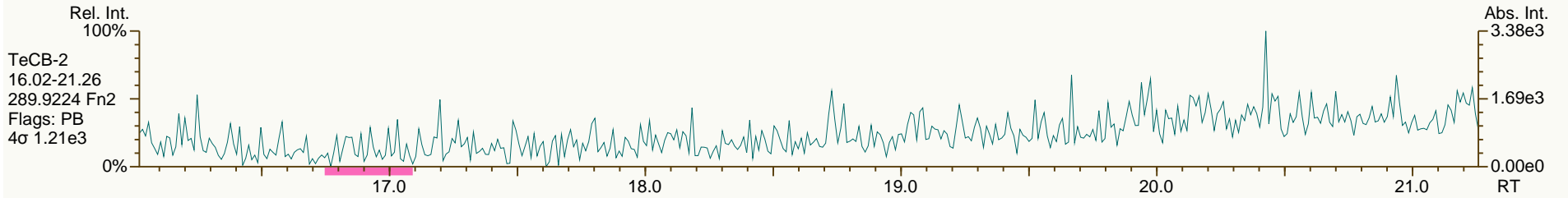
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
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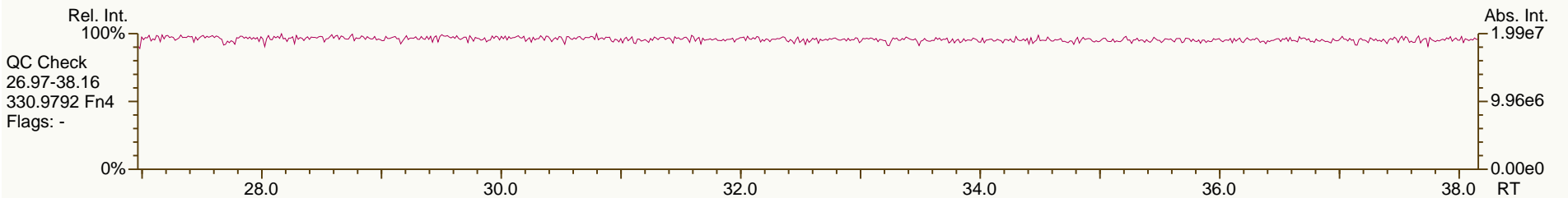
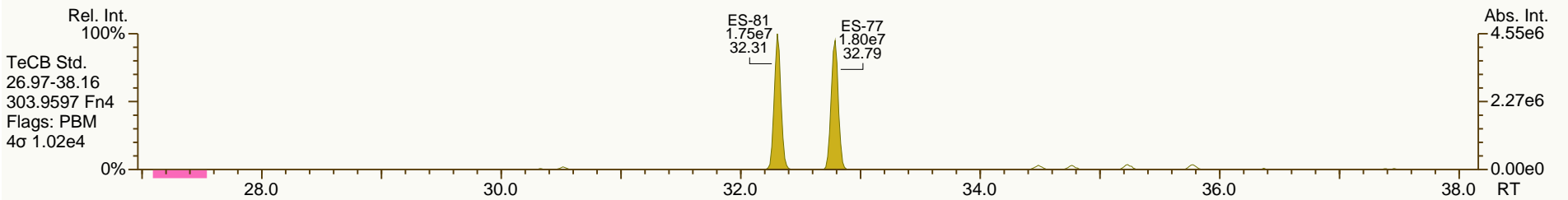
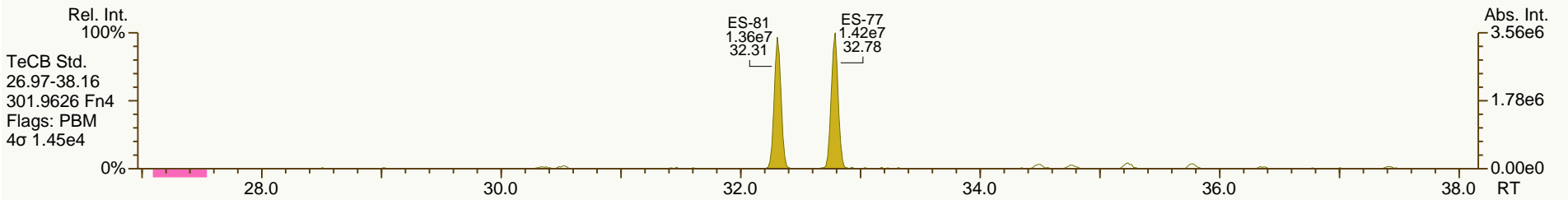
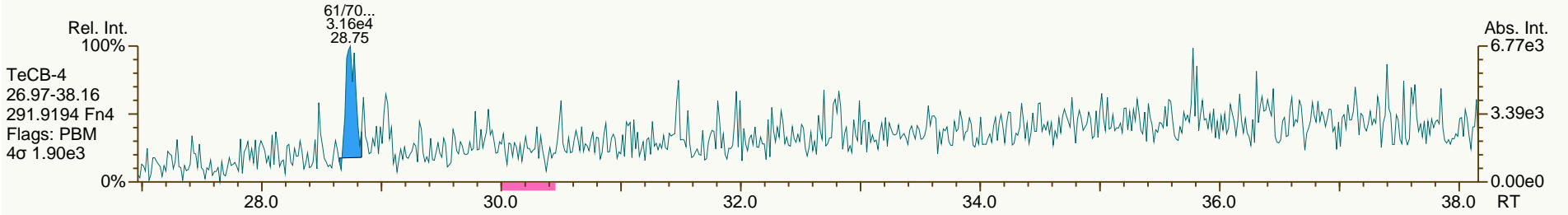
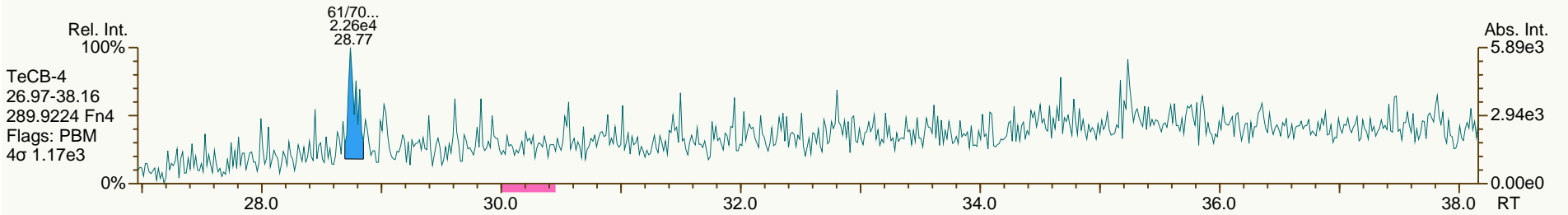
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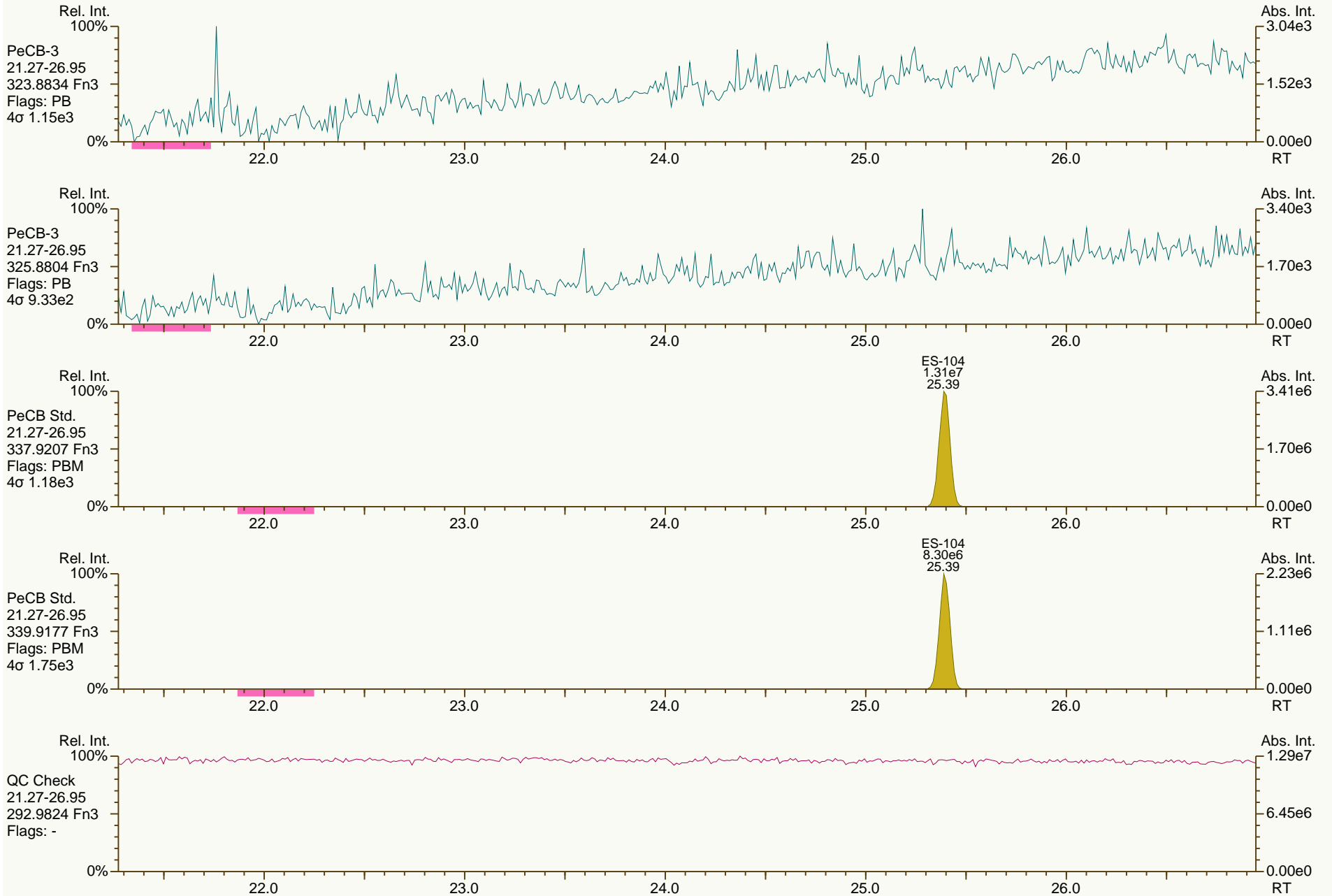
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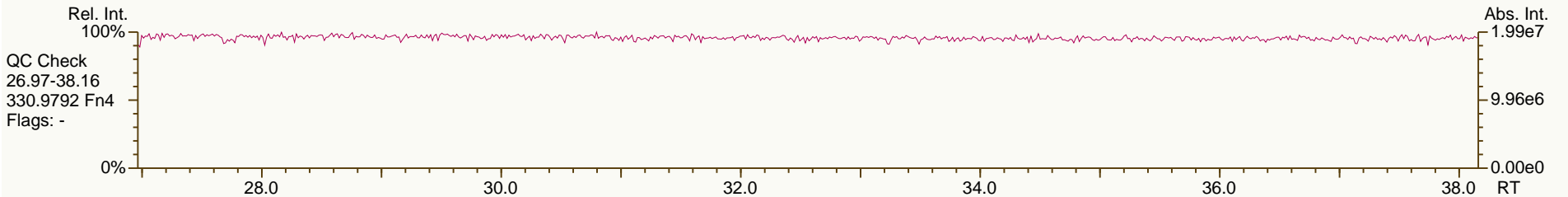
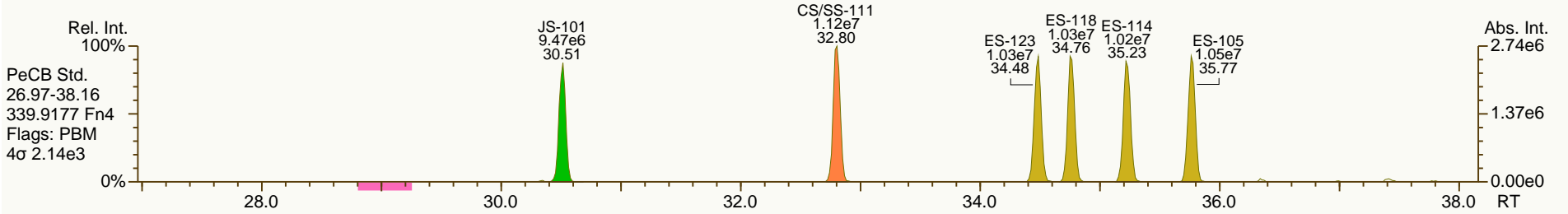
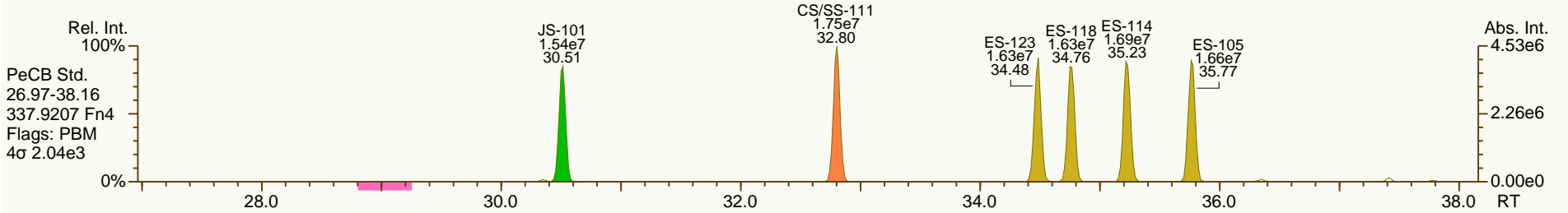
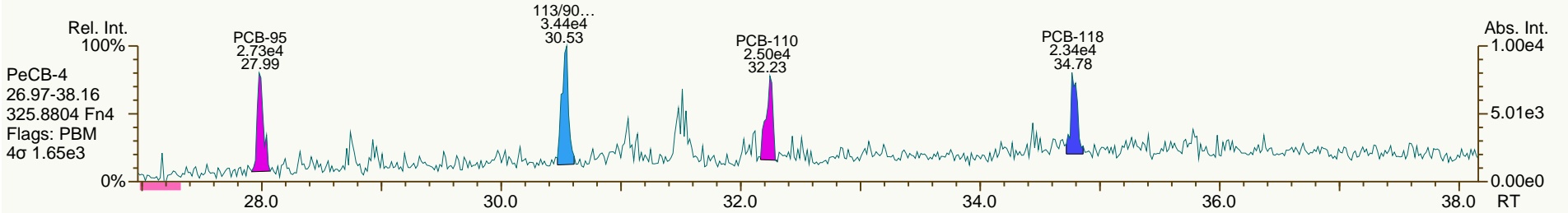
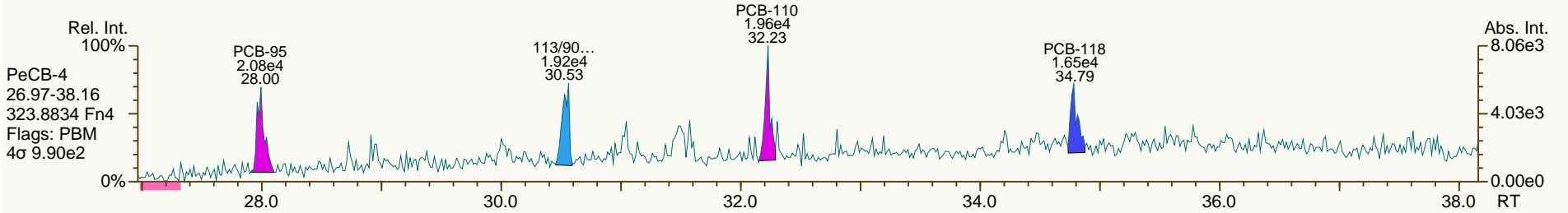
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
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Sample ID: Method Blank  
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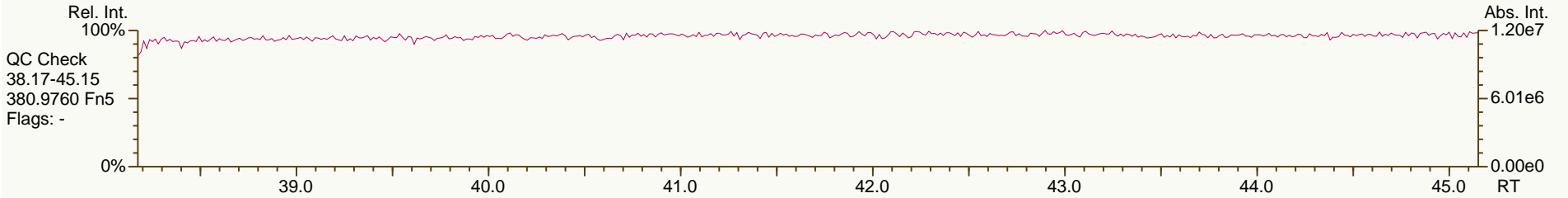
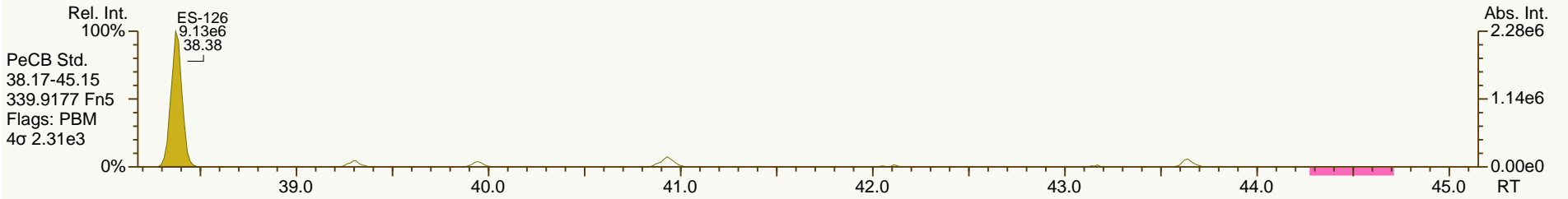
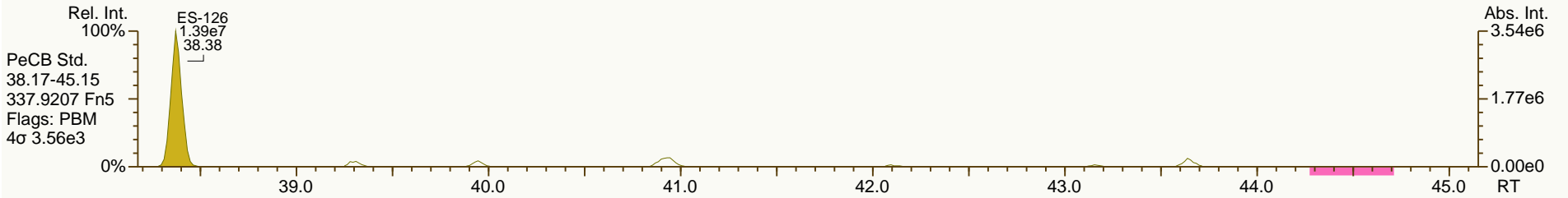
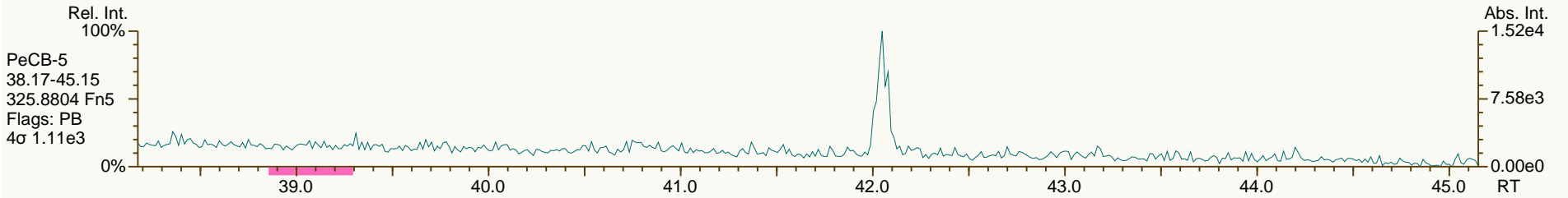
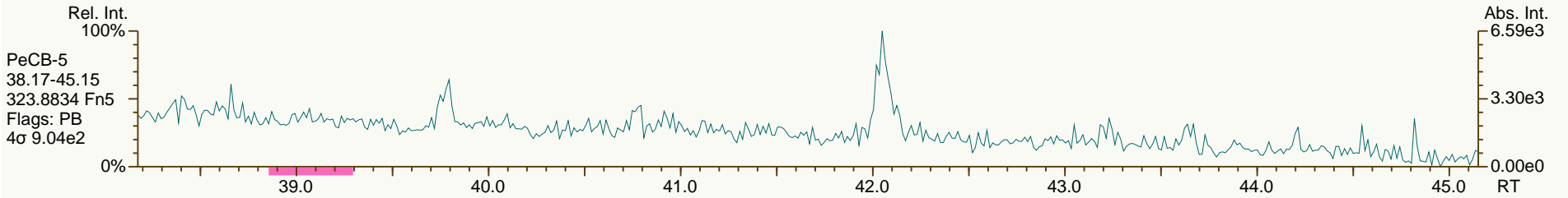
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Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

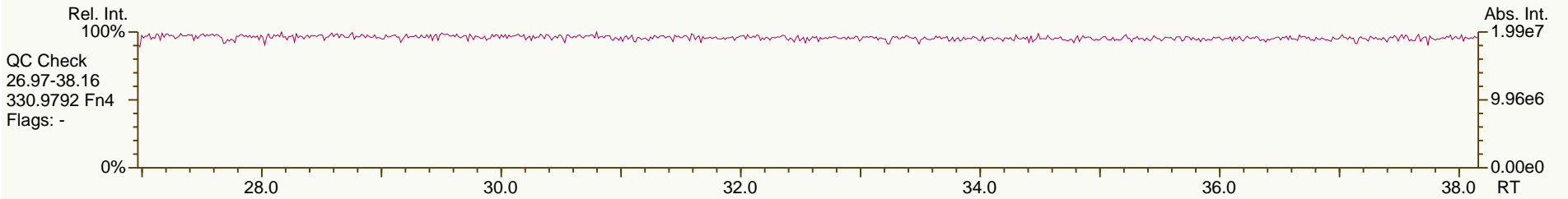
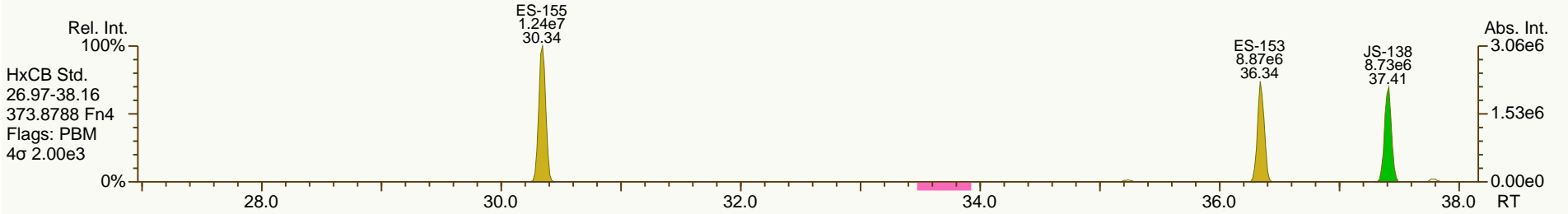
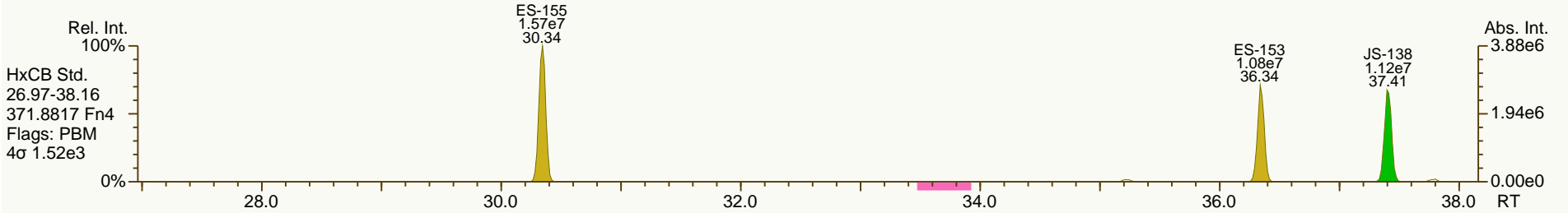
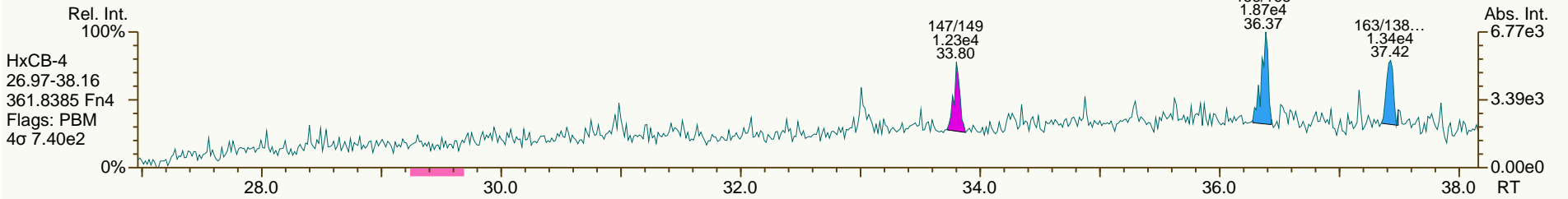
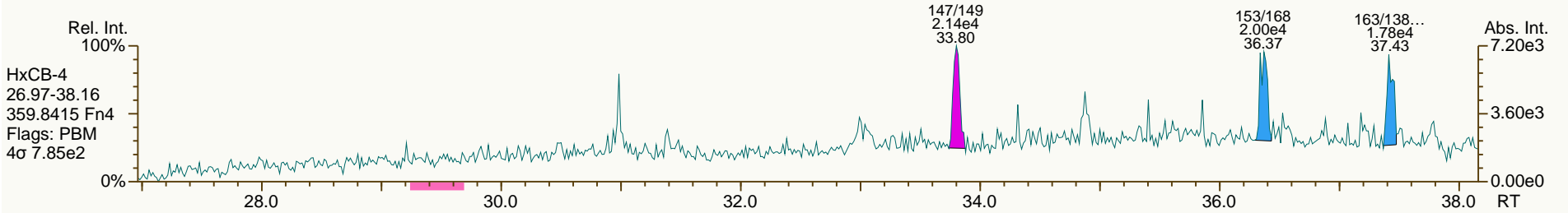
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User: LKB Datafile: 140326X08



SGS-AP ID: MB1\_11892\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

Acq: 26-Mar-2014 21:07:05  
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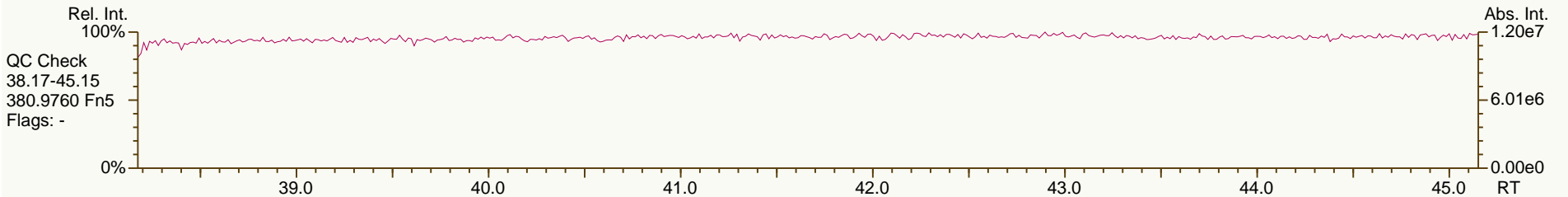
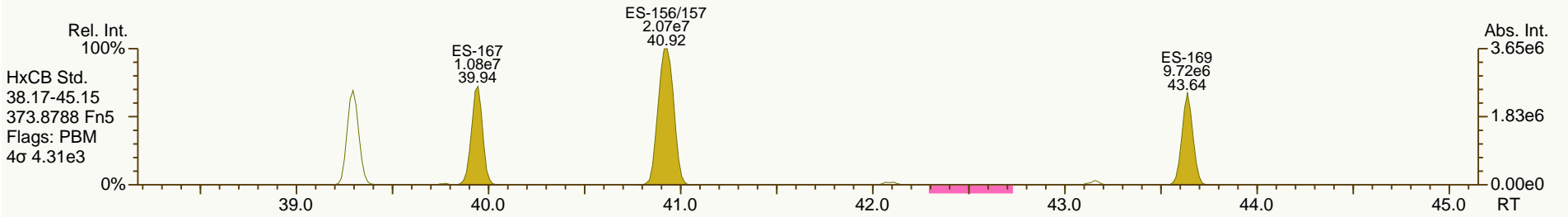
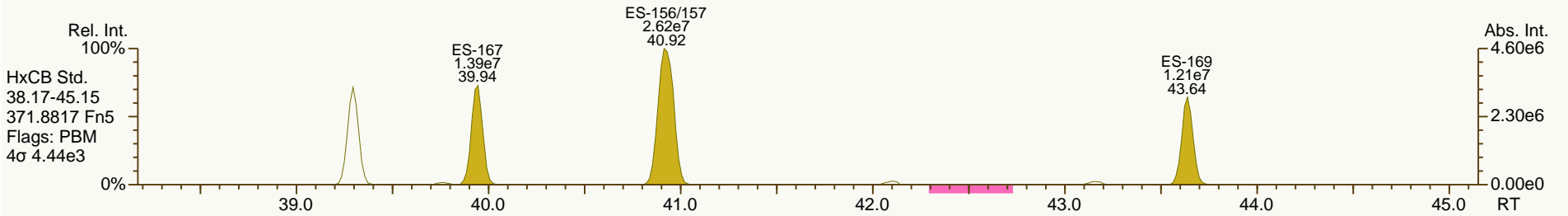
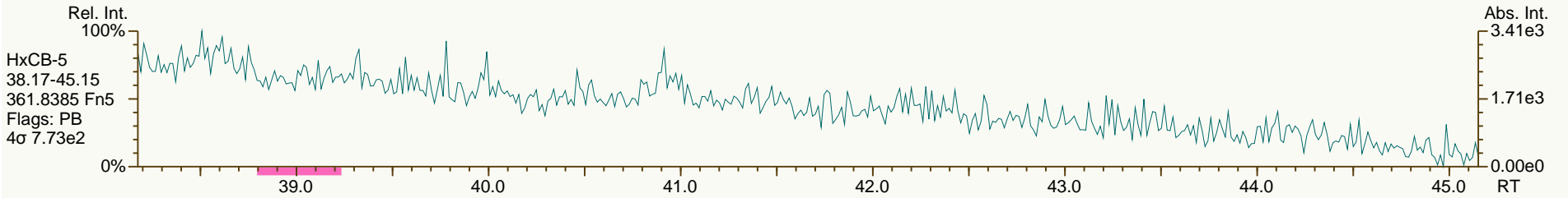
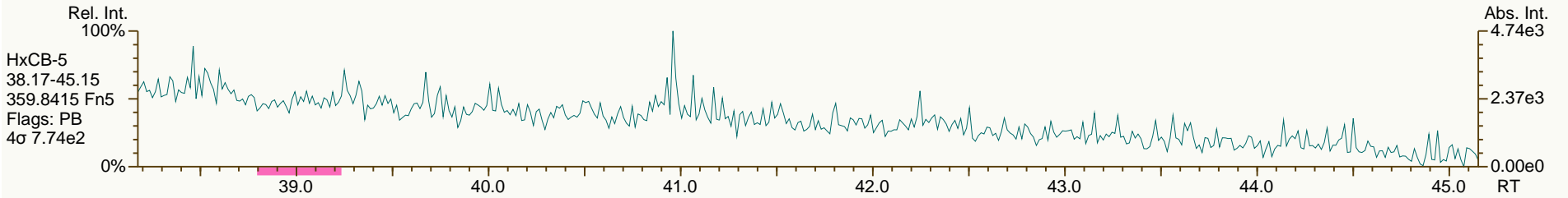




SGS-AP ID: MB1\_11892\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

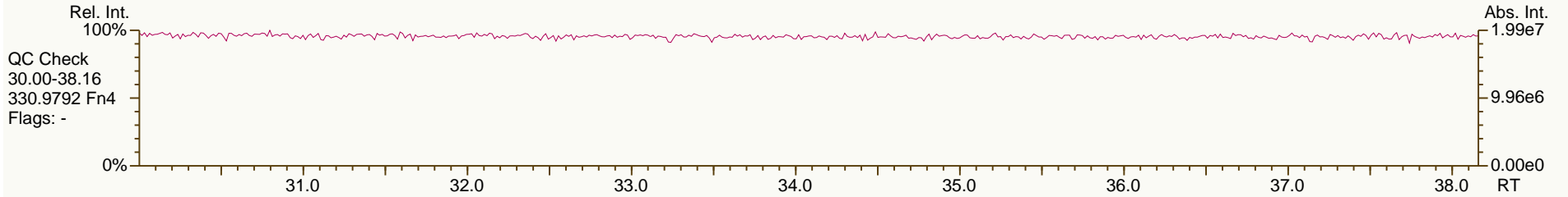
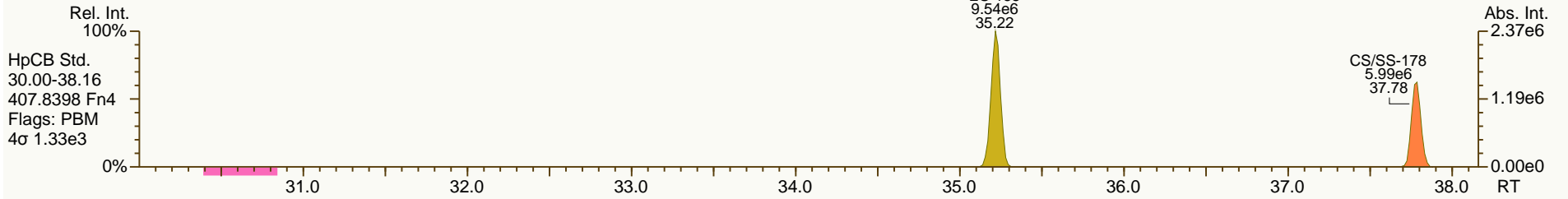
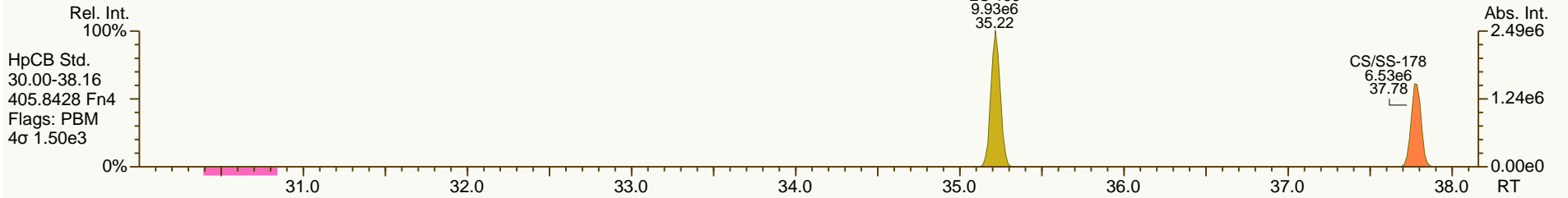
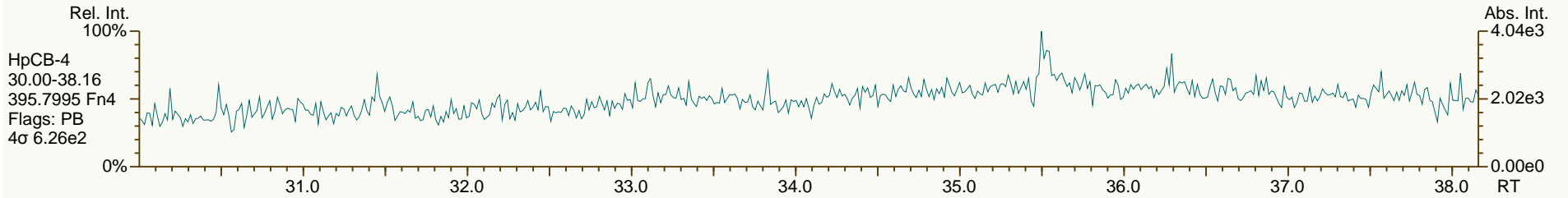
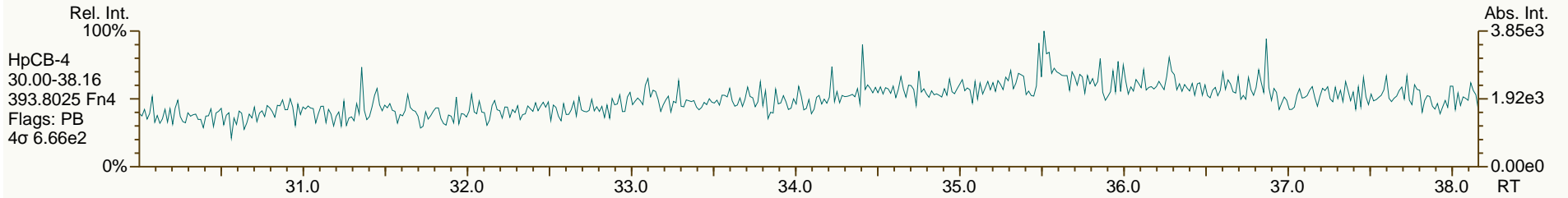
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

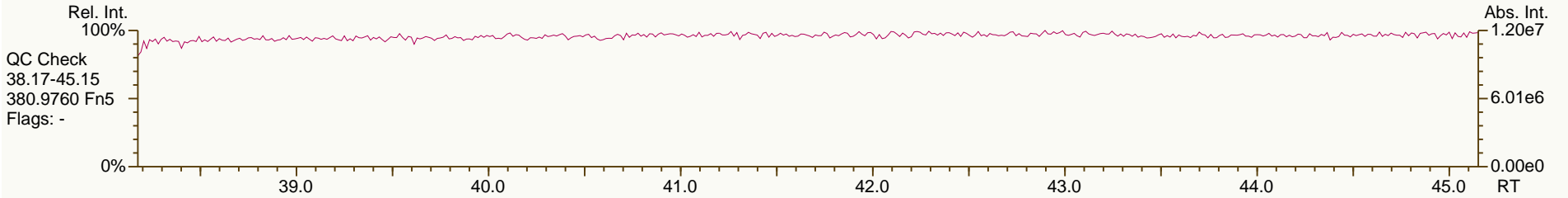
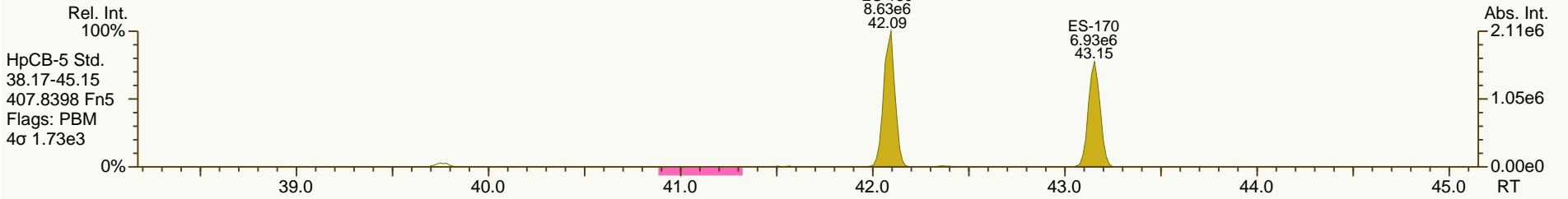
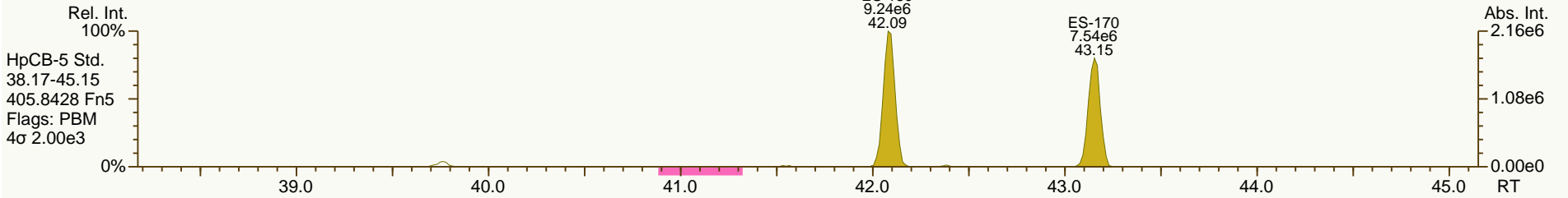
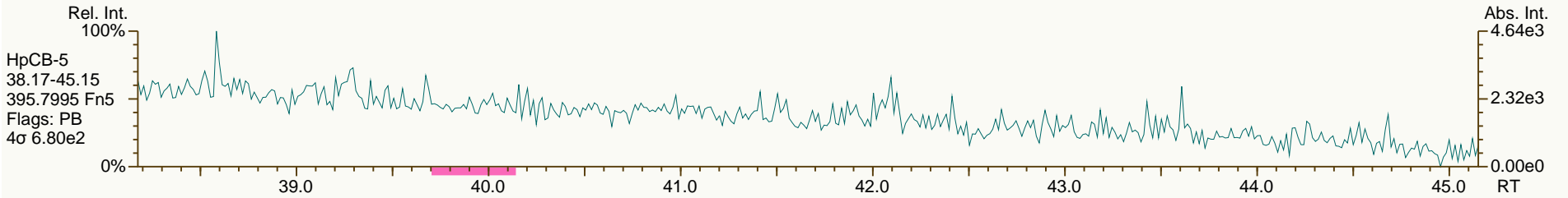
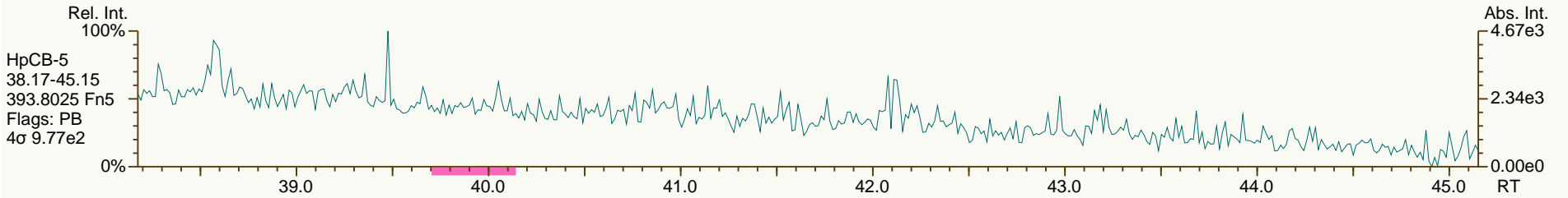
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
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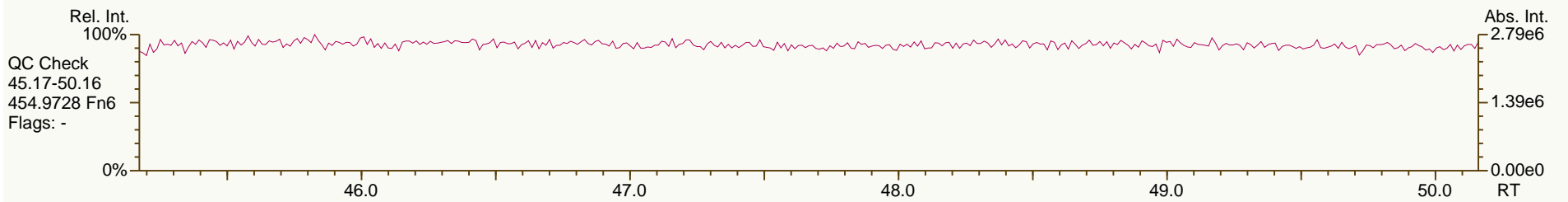
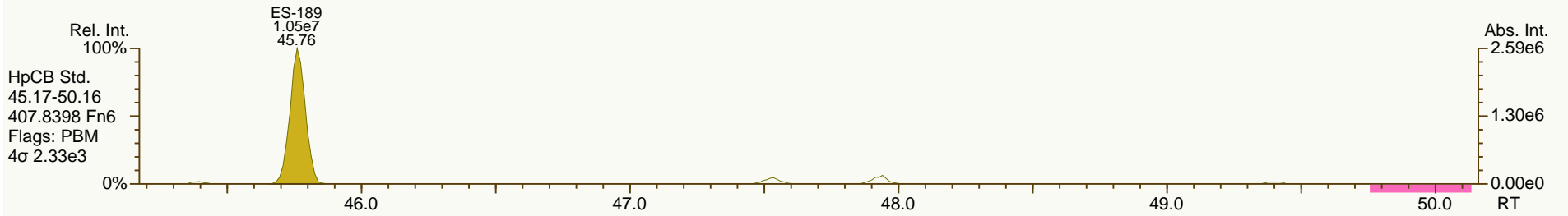
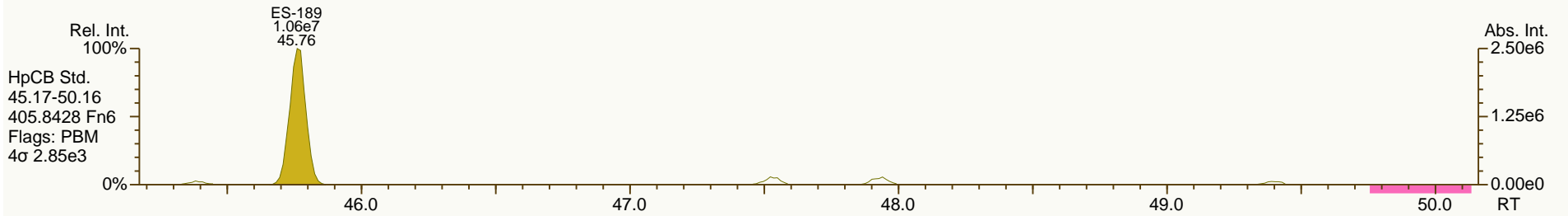
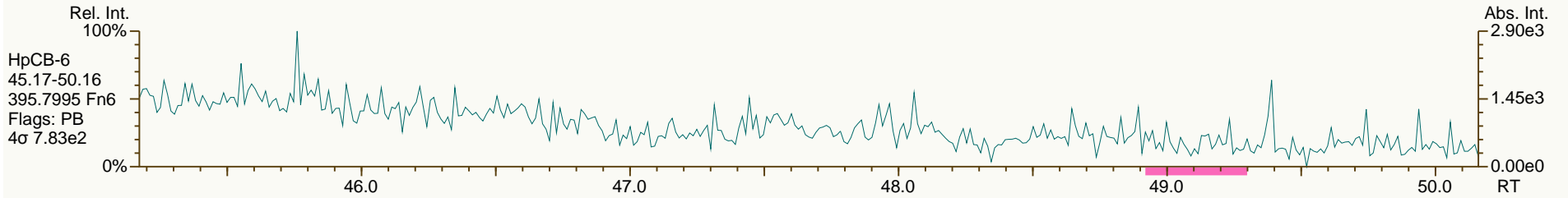
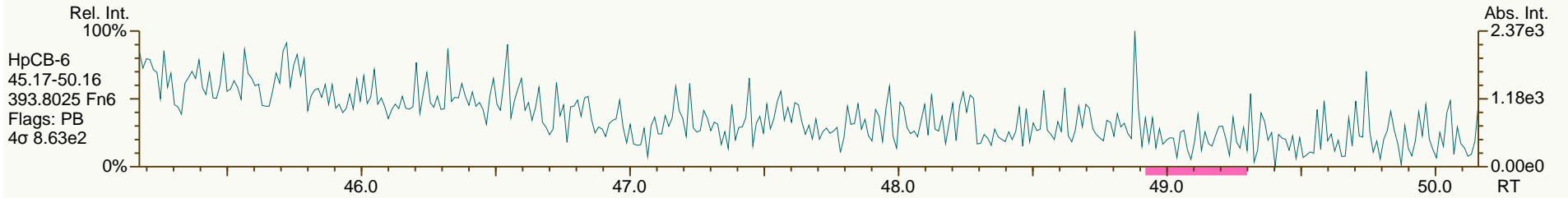
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
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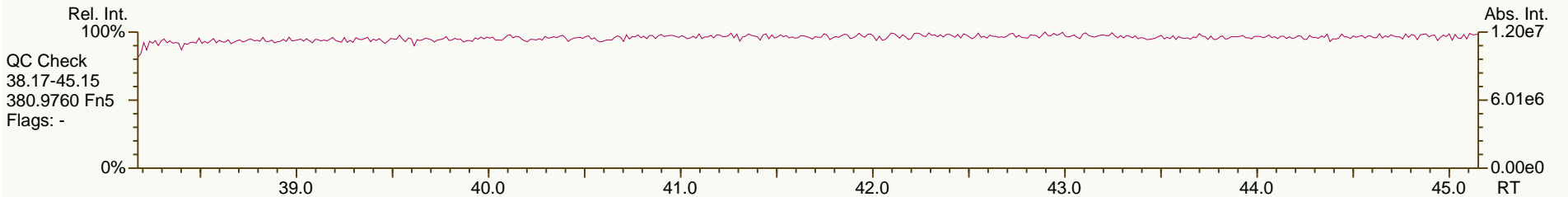
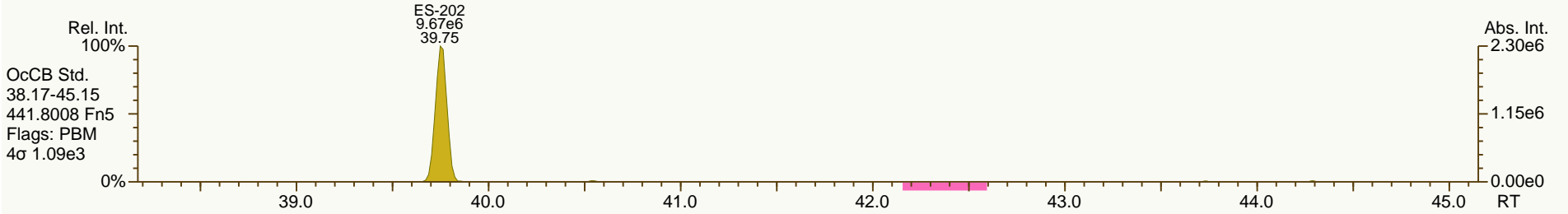
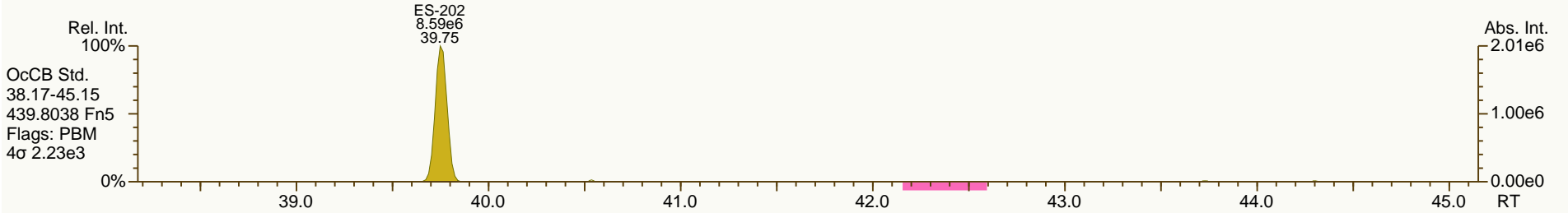
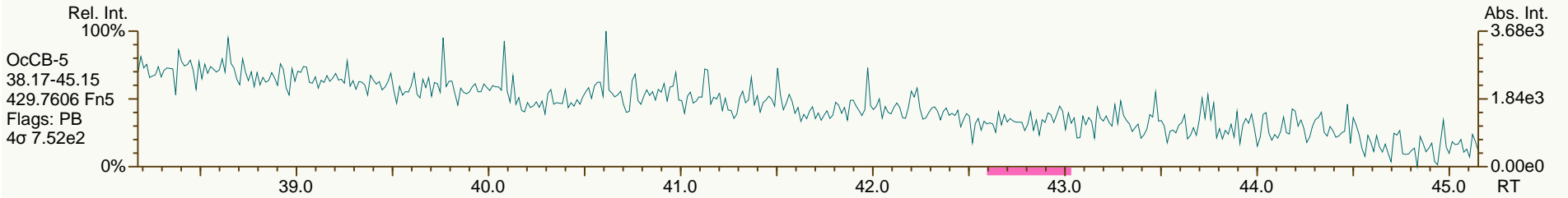
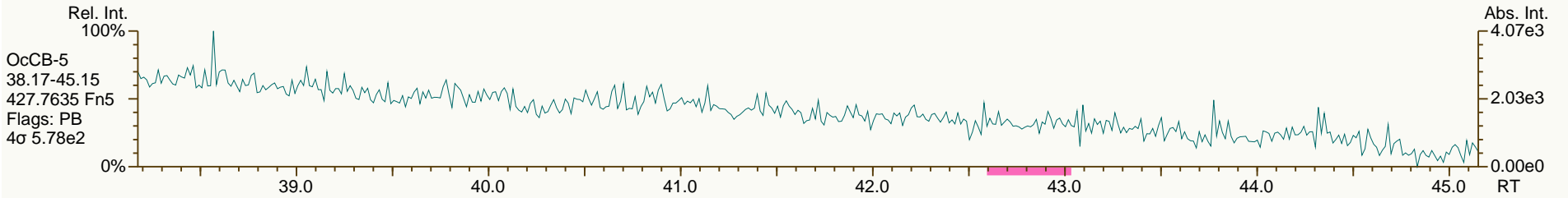
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

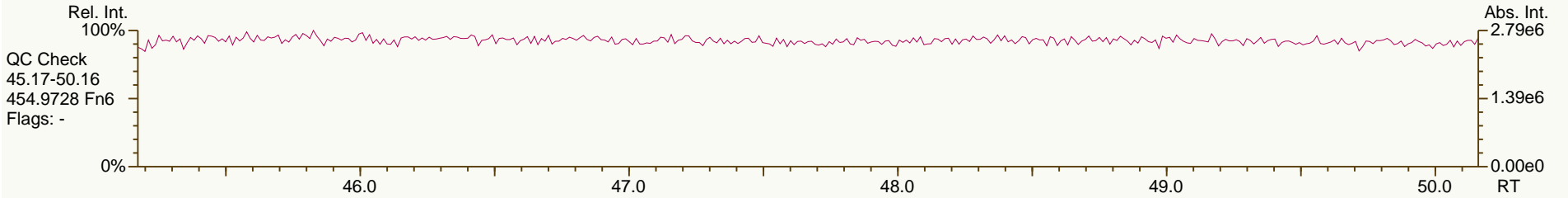
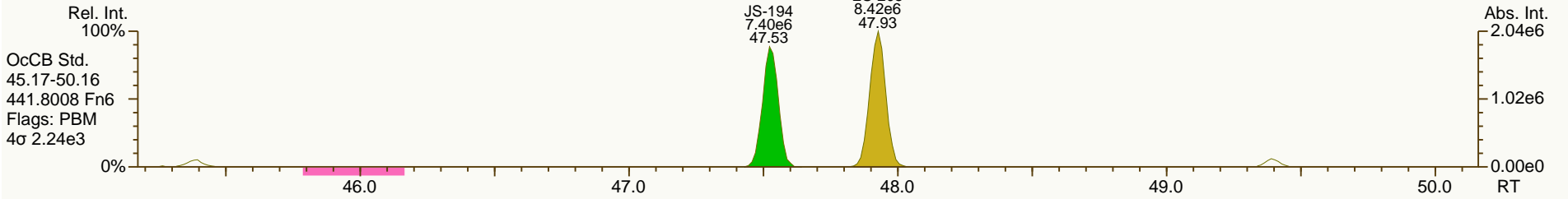
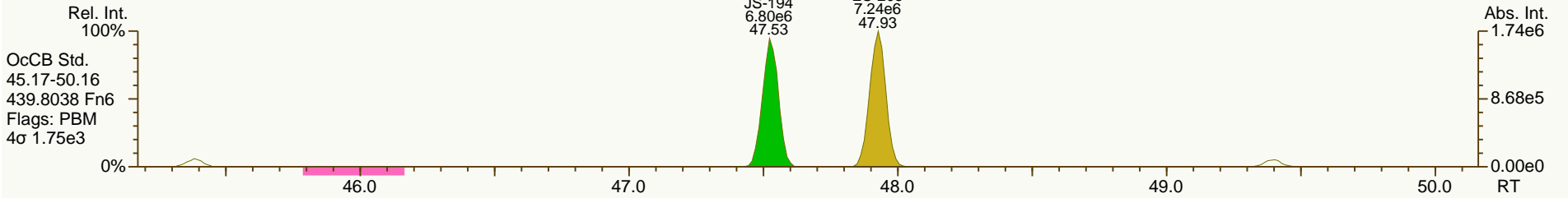
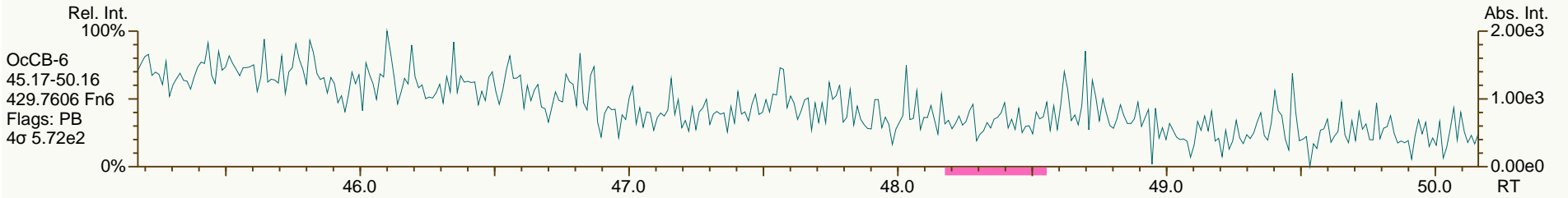
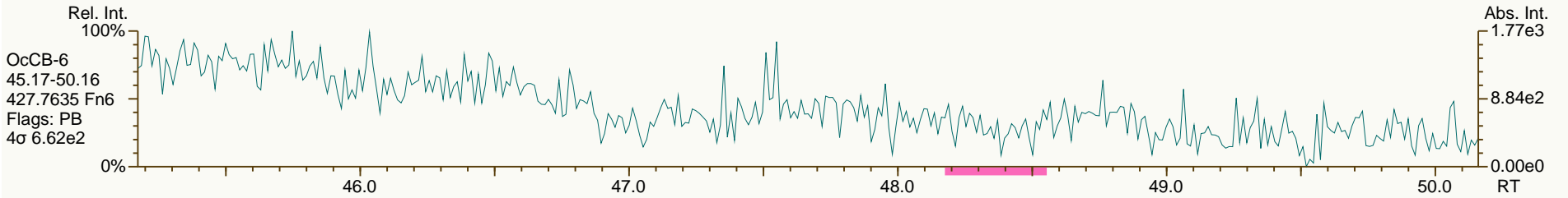
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

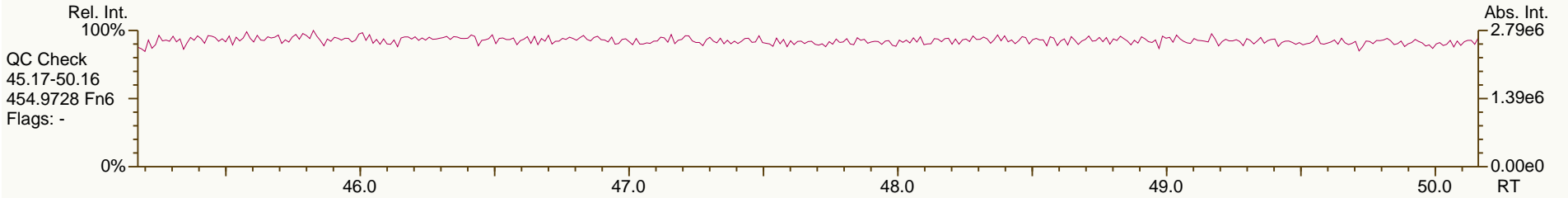
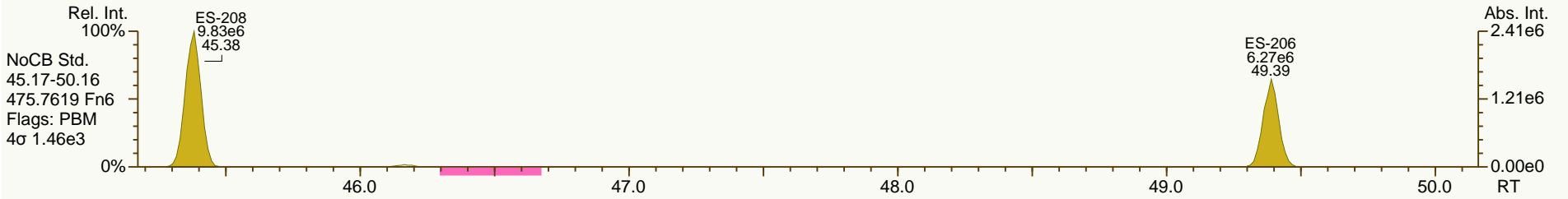
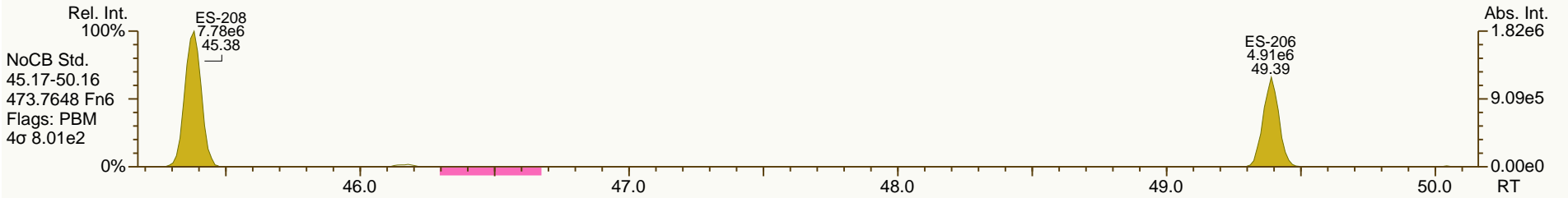
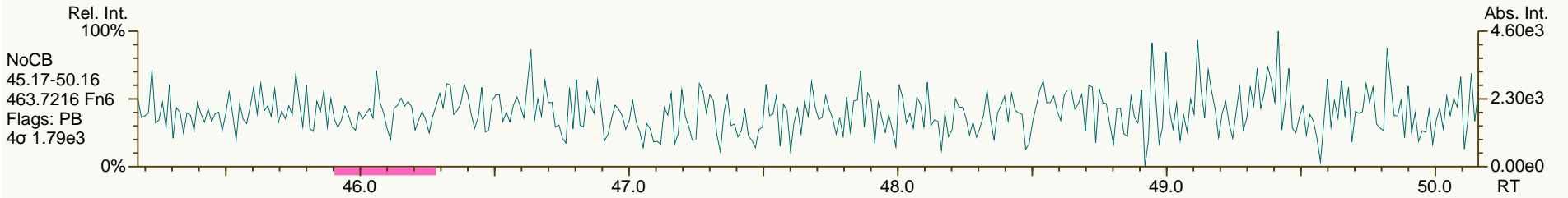
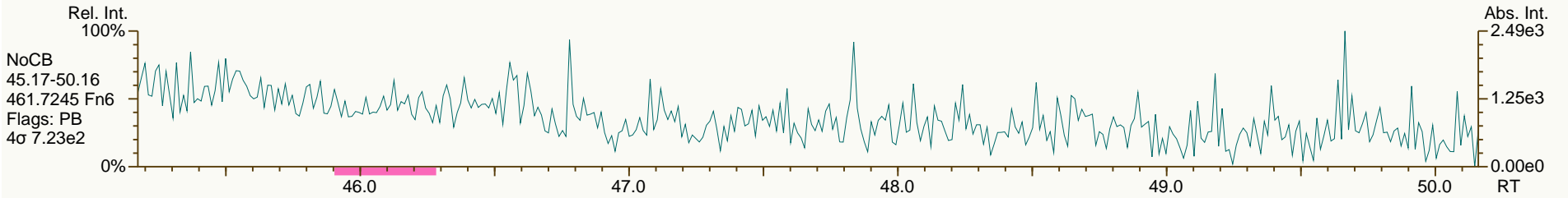
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

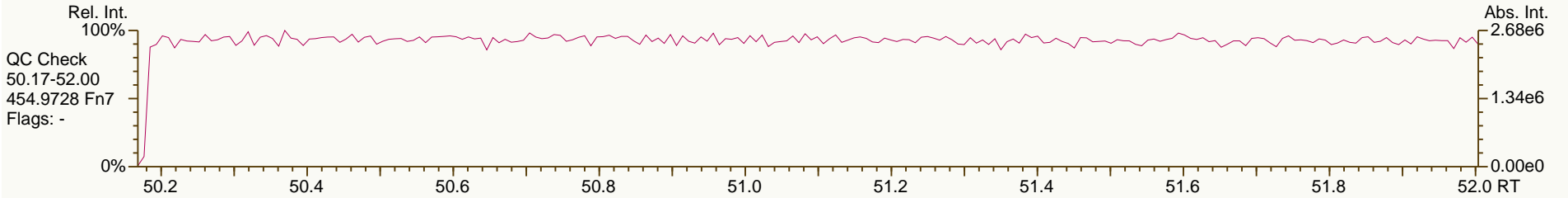
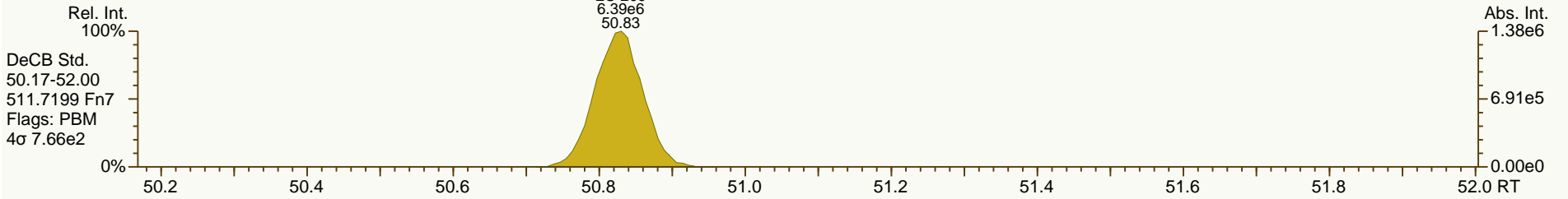
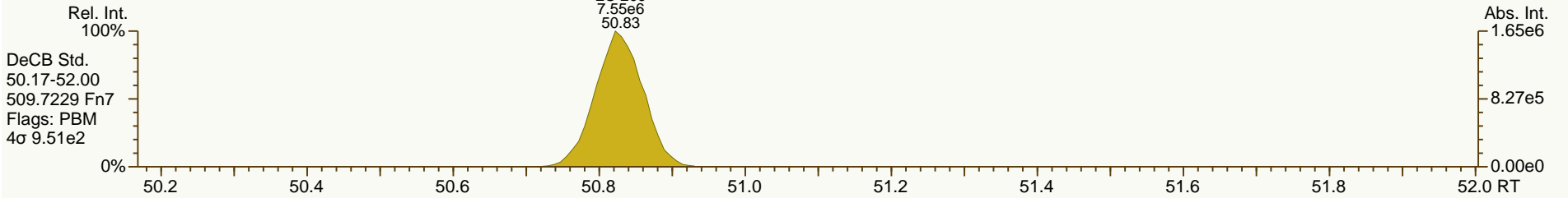
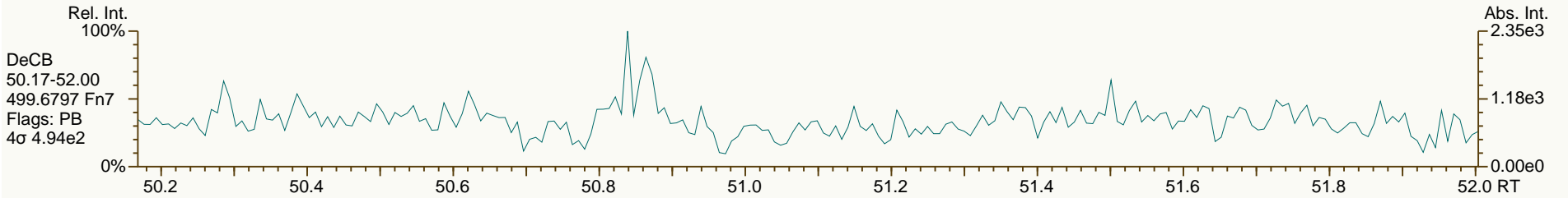
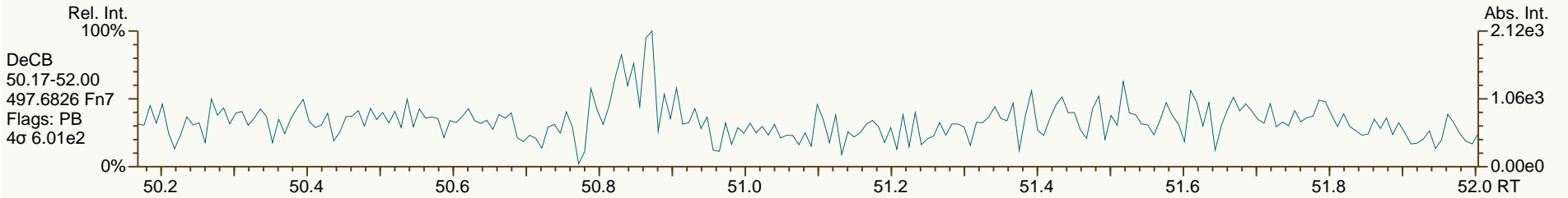
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SGS-AP ID: MB1\_11892\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 33

Acq: 26-Mar-2014 21:07:05  
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Lab ID: A6504\_11892\_PCB\_001

ACQ: 26-Mar-2014 22:02:20 LKB

Wt/Vol: 0.97 L

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Client ID: PB020-1SWMID-140313-N (TOTAL)

UTP: 31-Mar-2014 15:12 CEM

J-level: 10.3 pg/L Split: 1

Checkcode: 320-870-RRF

Datafile: 140326X09

RPT: 31-Mar-2014 18:57 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.81		1.0006	1.0006	0	4.03E+06	0.79	1.15	123	5.19E+03	1.64
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	5.19E+03	1.71
PCB-105 233'44'-PeCB	35.79		1.0007	1.0006	-0.2	1.03E+07	0.62	1.11	370	3.65E+03	1.31
PCB-114 2344'5'-PeCB	35.25		1.0006	1.0006	0	6.29E+05	0.63	1.20	21.1	3.65E+03	1.19
PCB-118 23'44'5'-PeCB	34.79		1.0006	1.0006	0	2.03E+07	0.61	1.19	702	3.65E+03	1.21
PCB-123 23'44'5'-PeCB	34.51		1.0007	1.0007	0	5.60E+05	0.65	1.21	18.8	3.65E+03	1.2
PCB-126 33'44'5'-PeCB	38.40	J	1.0005	1.0004	-0.2	1.13E+05	0.58	1.11	5.08	2.53E+03	1.15
PCB-156/157 ...-HxCB	40.94	C	1.0005	1.0002	-0.7	1.20E+06	1.24	1.10	51.1	2.06E+03	1.21
PCB-167 23'44'55'-HxCB	39.97		1.0006	1.0005	-0.2	4.36E+05	1.15	1.16	16.5	2.06E+03	0.785
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.06E+03	1.02
PCB-189 233'44'55'-HpCB	45.78	J	1.0004	1.0003	-0.3	7.37E+04	1.06	1.07	3.61	2.10E+03	1.08
PCB-209 DeCB	50.85		1.0004	1.0004	0	1.78E+07	1.15	1.11	1,370	1.23E+03	1.11
ES PCB-1	11.88		0.7244	0.7244	0	6.53E+07	3.31	1.19	58.8 %	15%	150%
ES PCB-3	14.17		0.8639	0.8639	0	7.29E+07	3.32	1.09	72.1 %	15%	150%
ES PCB-4	14.43		0.8794	0.8793	-0.1	4.08E+07	1.62	0.52	83.8 %	25%	150%
ES PCB-15	20.14		1.2273	1.2275	+0.2	9.20E+07	1.57	1.04	95 %	25%	150%
ES PCB-19	17.51		1.0673	1.0674	+0.1	4.24E+07	1.07	0.51	90 %	25%	150%
ES PCB-37	26.46		1.0788	1.0789	+0.2	7.04E+07	1.10	1.66	84.2 %	25%	150%
ES PCB-54	20.42		0.8328	0.8327	-0.1	4.29E+07	0.76	0.86	99 %	25%	150%
ES PCB-77	32.79		1.3366	1.3368	+0.4	5.88E+07	0.79	1.38	84.5 %	25%	150%
ES PCB-81	32.31		1.3172	1.3174	+0.4	5.68E+07	0.79	1.37	82.6 %	25%	150%
ES PCB-104	25.40		0.8324	0.8323	-0.2	4.25E+07	1.60	0.80	115 %	25%	150%
ES PCB-105	35.77		1.1721	1.1723	+0.4	5.17E+07	1.59	1.20	93.2 %	25%	150%
ES PCB-114	35.23		1.1544	1.1545	+0.2	5.10E+07	1.62	1.22	90.7 %	25%	150%
ES PCB-118	34.77		1.1392	1.1393	+0.2	5.00E+07	1.60	1.16	93.4 %	25%	150%
ES PCB-123	34.49		1.1300	1.1301	+0.2	5.06E+07	1.58	1.19	92.5 %	25%	150%
ES PCB-126	38.38		1.2577	1.2578	+0.2	4.16E+07	1.53	1.03	87.6 %	25%	150%
ES PCB-153	36.35		0.9716	0.9716	0	3.72E+07	1.31	1.11	92.4 %	25%	150%
ES PCB-155	30.35		0.8113	0.8112	-0.2	5.39E+07	1.28	1.59	94.4 %	25%	150%
ES PCB-156/157	40.93		1.0940	1.0941	+0.2	8.78E+07	1.26	1.60	76.4 %	25%	150%
ES PCB-167	39.95		1.0677	1.0677	0	4.69E+07	1.29	1.67	78.1 %	25%	150%
ES PCB-169	43.65		1.1666	1.1666	0	3.83E+07	1.27	1.56	68.4 %	25%	150%
ES PCB-170	43.16		0.9080	0.9080	0	2.73E+07	1.08	0.95	92.5 %	25%	150%
ES PCB-180	42.09		0.8855	0.8855	0	3.35E+07	1.09	1.14	94.7 %	25%	150%
ES PCB-188	35.22		0.7411	0.7411	0	3.72E+07	1.07	0.94	110 %	25%	150%
ES PCB-189	45.77		0.9629	0.9629	0	3.92E+07	1.03	1.58	94.8 %	25%	150%
ES PCB-202	39.76		0.8365	0.8365	0	3.46E+07	0.92	0.97	99.3 %	25%	150%
ES PCB-205	47.93		1.0084	1.0084	0	2.81E+07	0.89	1.24	86.6 %	25%	150%
ES PCB-206	49.40		1.0392	1.0392	0	1.97E+07	0.80	0.83	91.1 %	25%	150%
ES PCB-208	45.39		0.9548	0.9548	0	3.25E+07	0.81	1.17	106 %	25%	150%
ES PCB-209	50.83		1.0694	1.0694	0	2.40E+07	1.19	1.11	83 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.91		0.9339	0.9339	0	7.87E+07	1.09	1.11	101 %	30%	135%
SS PCB-111	32.81		1.0750	1.0751	+0.2	5.31E+07	1.56	1.03	102 %	30%	135%
SS PCB-178	37.79		1.0100	1.0100	0	2.32E+07	1.10	0.62	100 %	30%	135%
CS PCB-28	22.91		0.9339	0.9339	0	7.87E+07	1.09	1.85	84.8 %	30%	135%
CS PCB-111	32.81		1.0750	1.0751	+0.2	5.31E+07	1.56	1.22	94.2 %	30%	135%
CS PCB-178	37.79		1.0100	1.0100	0	2.32E+07	1.10	0.58	111 %	30%	135%
JS PCB-9	16.41					9.31E+07	1.56				
JS PCB-52	24.53					5.03E+07	0.81				
JS PCB-101	30.52					4.62E+07	1.57				
JS PCB-138	37.41					3.59E+07	1.29				
JS PCB-194	47.53					2.61E+07	0.90				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
						Mono-CBs	47.5	47.5		1.25	
						Di-CBs	545	555		2.19	
						Tri-CBs	5,610	5,610		1.97	
						Tetra-CBs	14,700	14,700		1.23	
						Penta-CBs	6,500	6,510		1.09	
						Hexa-CBs	2,100	2,100		0.857	
						Hepta-CBs	671	671		1.02	
						Octa-CBs	179	179		1.05	
						Nona-CBs	163	163		2.39	
PCB-1 2-MoCB	11.90		1.0011	1.0011	0	1.04E+06	3.34	0.95	34.3	6.20E+03	1.25
PCB-2 3-MoCB	14.01	J	0.9880	0.9881	+0.1	1.17E+05	2.82	1.12	2.96	6.20E+03	1.12
PCB-3 4-MoCB	14.19	J	1.0010	1.0009	-0.1	3.65E+05	3.29	1.01	10.2	6.20E+03	1.24
PCB-4 22'-DiCB	14.44		1.0011	1.0011	0	4.66E+06	1.64	1.23	191	1.10E+04	3.2
PCB-10 26'-DiCB	14.62	J	1.0135	1.0137	+0.2	3.17E+05	SI	1.92	8.35	1.10E+04	2.06
PCB-9 25'-DiCB	16.42		1.0010	1.0010	0	4.70E+05	1.55	0.96	11	5.56E+03	1.24
PCB-7 24'-DiCB	16.59	J	1.0111	1.0111	0	2.15E+05	SI	1.10	4.37	5.56E+03	1.09
PCB-6 23'-DiCB	16.82		1.0249	1.0249	0	1.67E+06	1.61	1.01	36.9	5.56E+03	1.18
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	5.56E+03	1.18
PCB-8 24'-DiCB	17.24		1.0505	1.0507	+0.2	7.59E+06	1.60	1.06	160	5.56E+03	1.12
PCB-14 35'-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	5.56E+03	0.983
PCB-11 33'-DiCB	19.58	B	0.9721	0.9721	0	1.46E+06	1.71	1.06	30.7	5.56E+03	1.12
PCB-13/12 34'/34'-DiCB	19.85	J EMPC C	0.9866	0.9855	-1.3	4.90E+05	1.89	1.05	10.4	5.56E+03	1.14
PCB-15 44'-DiCB	20.15		1.0008	1.0007	-0.1	4.66E+06	1.62	1.02	102	5.56E+03	1.17
PCB-19 22'6-TrCB	17.53		1.0010	1.0011	+0.1	2.58E+06	1.03	1.15	109	5.55E+03	2.01
PCB-30/18 246/22'5-TrCB	19.30	C	1.1015	1.1019	+0.5	3.37E+07	1.05	1.54	1,060	5.55E+03	1.5
PCB-17 22'4-TrCB	19.69		1.1244	1.1244	0	1.03E+07	1.07	1.32	381	5.55E+03	1.75
PCB-27 23'6-TrCB	19.88		1.1354	1.1354	0	2.13E+06	1.10	1.79	57.7	5.55E+03	1.29
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	5.55E+03	1.34
PCB-16 22'3-TrCB	20.11		1.1485	1.1486	+0.1	7.44E+06	1.08	0.98	368	5.55E+03	2.35

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.59		1.1759	1.1760	+0.1	1.26E+07	1.05	1.92	317	5.55E+03	1.2
PCB-34 23'5'-TrCB	21.74	J	0.8218	0.8215	-0.4	2.42E+05	1.01	1.23	5.75	7.21E+03	1.69
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	7.21E+03	1.66
PCB-26/29 23'5'/245-TrCB	22.15	C	0.8382	0.8371	-1.5	7.46E+06	1.01	1.27	172	7.21E+03	1.64
PCB-25 23'4-TrCB	22.38		0.8457	0.8456	-0.1	3.08E+06	0.99	1.27	70.7	7.21E+03	1.63
PCB-31 24'5-TrCB	22.65		0.8562	0.8560	-0.3	5.02E+07	1.00	1.33	1,110	7.21E+03	1.56
PCB-28/20 244'/233'-TrCB	22.93	C	0.8669	0.8664	-0.7	4.48E+07	1.01	1.23	1,060	7.21E+03	1.68
PCB-21/33 234/23'4'-TrCB	23.14	C	0.8738	0.8745	+1.0	1.65E+07	1.00	1.27	382	7.21E+03	1.64
PCB-22 234'-TrCB	23.50		0.8879	0.8878	-0.1	1.19E+07	0.98	1.18	295	7.21E+03	1.75
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	7.21E+03	1.6
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	7.21E+03	1.55
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	7.21E+03	1.71
PCB-35 33'4-TrCB	26.12		0.9871	0.9870	-0.2	7.58E+05	1.01	1.17	19	7.21E+03	1.77
PCB-37 344'-TrCB	26.49		1.0007	1.0009	+0.3	7.57E+06	1.03	1.08	205	7.21E+03	1.92
PCB-54 22'66'-TeCB	20.44	J	1.0010	1.0009	-0.1	1.70E+05	0.80	1.35	6.02	2.12E+03	0.677
PCB-50/53 22'46/22'56'-TeCB	22.40	C	0.9145	0.9134	-1.5	8.32E+06	0.79	0.91	333	2.58E+03	1.05
PCB-45 22'36-TeCB	23.02		0.9385	0.9385	0	7.31E+06	0.79	0.82	323	2.58E+03	1.16
PCB-51 22'46'-TeCB	23.09		0.9414	0.9415	+0.1	2.50E+06	0.81	0.88	103	2.58E+03	1.08
PCB-46 22'36'-TeCB	23.30		0.9499	0.9499	0	2.55E+06	0.79	0.73	126	2.58E+03	1.29
PCB-52 22'55'-TeCB	24.55		1.0009	1.0009	0	5.77E+07	0.79	0.89	2,350	2.58E+03	1.06
PCB-73 23'5'6-TeCB	24.68	J EMPC	1.0062	1.0060	-0.3	1.04E+05	0.90	1.18	3.21	2.58E+03	0.808
PCB-43 22'35-TeCB	24.77		1.0100	1.0100	0	1.37E+06	0.76	0.76	65.1	2.58E+03	1.24
PCB-69/49 23'46/22'45'-TeCB	24.99	C	1.0181	1.0189	+1.2	3.59E+07	0.79	1.09	1,200	2.58E+03	0.872
PCB-48 22'45-TeCB	25.25		1.0296	1.0296	0	9.02E+06	0.78	0.89	367	2.58E+03	1.07
PCB-44/47/65 ...-TeCB	25.45	C	1.0384	1.0374	-1.5	5.10E+07	0.79	0.95	1,950	2.58E+03	1
PCB-59/62/75 ...-TeCB	25.74	C	1.0497	1.0493	-0.6	4.90E+06	0.77	1.24	143	2.58E+03	0.765
PCB-42 22'34'-TeCB	25.91		1.0563	1.0564	+0.2	1.09E+07	0.79	0.82	486	2.58E+03	1.16
PCB-41 22'34-TeCB	26.24		1.0700	1.0699	-0.2	2.72E+06	0.75	0.75	132	2.58E+03	1.27
PCB-71/40 23'4'6/22'33'-TeCB	26.34	C	1.0738	1.0739	+0.2	2.12E+07	0.79	0.91	849	2.58E+03	1.05
PCB-64 234'6-TeCB	26.54		1.0819	1.0820	+0.2	2.80E+07	0.77	1.31	773	2.58E+03	0.724
PCB-72 23'55'-TeCB	27.25		0.8435	0.8434	-0.2	4.89E+05	0.83	1.27	14	5.19E+03	1.51
PCB-68 23'45'-TeCB	27.51		0.8514	0.8513	-0.2	1.05E+06	0.77	1.32	28.8	5.19E+03	1.44
PCB-57 233'5-TeCB	27.88	J	0.8630	0.8629	-0.2	2.03E+05	0.88	1.21	6.11	5.19E+03	1.58
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	5.19E+03	1.57
PCB-67 23'45-TeCB	28.25		0.8741	0.8741	0	1.21E+06	0.80	1.29	34	5.19E+03	1.48
PCB-63 234'5-TeCB	28.47		0.8811	0.8810	-0.2	1.87E+06	0.79	1.36	50	5.19E+03	1.41
PCB-61/70/74/76 ...-TeCB	28.77	C	0.8901	0.8903	+0.3	8.89E+07	0.80	1.22	2,650	5.19E+03	1.57
PCB-66 23'44'-TeCB	29.04		0.8988	0.8987	-0.2	4.98E+07	0.80	1.17	1,540	5.19E+03	1.63
PCB-55 233'4-TeCB	29.19		0.9033	0.9033	0	4.37E+05	0.81	1.15	13.8	5.19E+03	1.66
PCB-56 233'4'-TeCB	29.62		0.9168	0.9167	-0.2	2.24E+07	0.80	1.16	703	5.19E+03	1.65
PCB-60 2344'-TeCB	29.82		0.9228	0.9228	0	9.72E+06	0.79	1.17	302	5.19E+03	1.64
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	5.19E+03	1.38
PCB-79 33'45'-TeCB	31.48		0.9737	0.9741	+0.8	5.06E+05	0.81	1.32	14	5.19E+03	1.45
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	5.19E+03	1.72
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.41E+03	0.455
PCB-96 22'366'-PeCB	25.74		1.0134	1.0134	0	4.86E+05	0.62	1.17	20.2	1.41E+03	0.559
PCB-103 22'45'6-PeCB	27.43		0.8989	0.8987	-0.3	2.69E+05	0.62	0.95	11.5	3.65E+03	1.52
PCB-94 22'356'-PeCB	27.62	J EMPC	0.9051	0.9050	-0.2	1.97E+05	0.72	0.80	10	3.65E+03	1.81

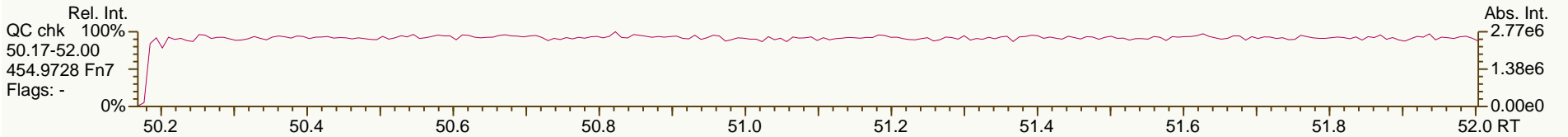
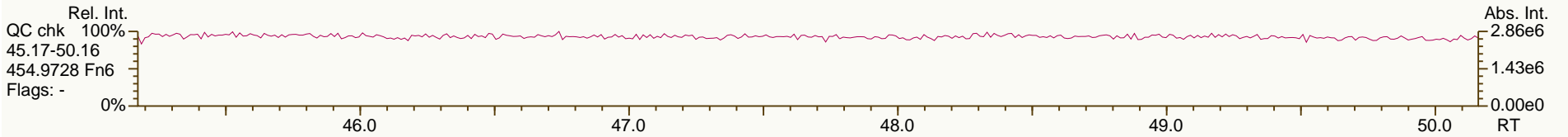
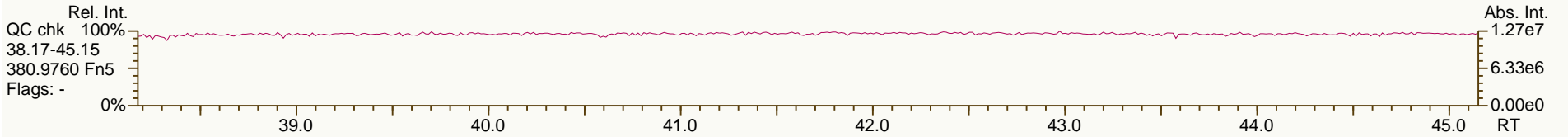
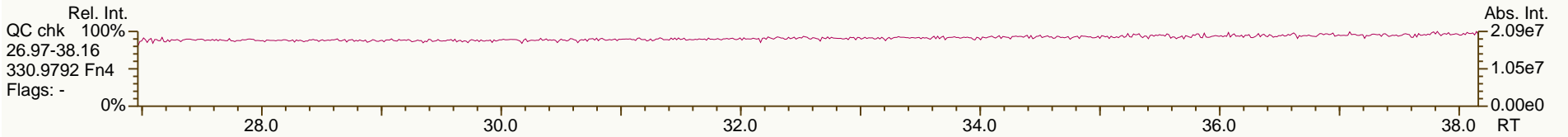
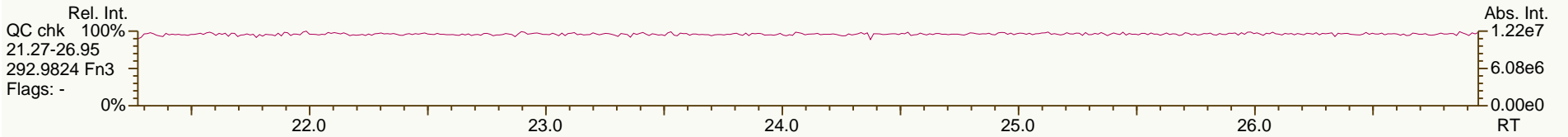
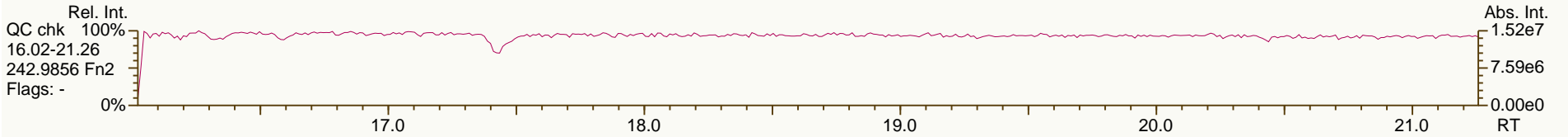
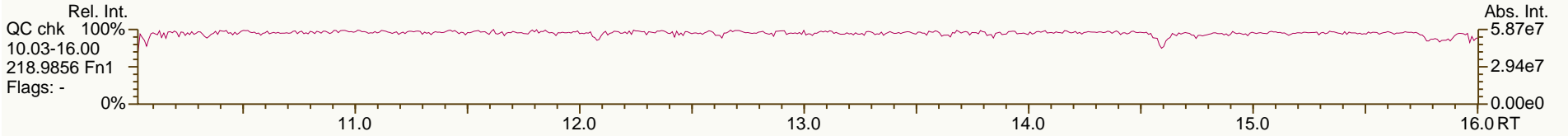
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.00		0.9176	0.9175	-0.2	1.65E+07	0.62	0.87	770	3.65E+03	1.67
PCB-100/93 22'44'6/22'356-PeCB	28.21	J C	0.9246	0.9245	-0.2	3.72E+05	0.62	0.88	17.3	3.65E+03	1.66
PCB-102 22'456'-PeCB	28.32		0.9282	0.9282	0	1.33E+06	0.59	0.88	61.6	3.65E+03	1.65
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	3.65E+03	1.7
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	3.65E+03	1.72
PCB-91 22'34'6-PeCB	28.76		0.9425	0.9424	-0.2	4.32E+06	0.61	0.86	205	3.65E+03	1.69
PCB-84 22'33'6-PeCB	28.95		0.9487	0.9487	0	5.83E+06	0.61	0.72	330	3.65E+03	2.02
PCB-89 22'346'-PeCB	29.37		0.9624	0.9624	0	5.69E+05	0.60	0.78	29.7	3.65E+03	1.86
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	3.65E+03	1.19
PCB-92 22'355'-PeCB	30.03		0.9841	0.9840	-0.2	3.27E+06	0.61	0.84	157	3.65E+03	1.72
PCB-113/90/101 ...-PeCB	30.54	C	0.9999	1.0007	+1.5	2.11E+07	0.62	0.97	880	3.65E+03	1.49
PCB-83 22'33'5-PeCB	30.94		1.0142	1.0139	-0.6	8.81E+05	0.59	0.66	54.3	3.65E+03	2.2
PCB-99 22'44'5-PeCB	31.04		1.0173	1.0173	0	1.27E+07	0.62	0.98	524	3.65E+03	1.48
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	3.65E+03	1.25
PCB-108/119/86/97/125...-PeCB	31.52	C	1.0320	1.0329	+1.7	1.72E+07	0.62	0.98	716	3.65E+03	1.49
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	3.65E+03	1.33
PCB-116/85 23456/22'344'-PeCB	32.09	C	1.0525	1.0517	-1.5	5.73E+06	0.60	0.97	240	3.65E+03	1.5
PCB-110 233'4'6-PeCB	32.24		1.0563	1.0564	+0.2	2.94E+07	0.61	1.10	1,090	3.65E+03	1.32
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	3.65E+03	1.29
PCB-82 22'33'4-PeCB	32.52		1.0656	1.0656	0	2.85E+06	0.61	0.69	167	3.65E+03	2.09
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	3.65E+03	1.21
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	3.65E+03	1.19
PCB-107/124 ...-PeCB	34.20	C	0.9915	0.9916	+0.2	8.46E+05	0.61	1.10	31.3	3.65E+03	1.32
PCB-109 233'46-PeCB	34.41		0.9976	0.9977	+0.2	1.79E+06	0.63	1.22	59.5	3.65E+03	1.19
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	3.65E+03	1.34
PCB-122 233'4'5'-PeCB	35.08		1.0091	1.0091	0	3.86E+05	0.60	1.01	15.4	3.65E+03	1.42
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	3.65E+03	1.37
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.40E+03	0.408
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.40E+03	0.473
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.40E+03	0.459
PCB-136 22'33'66'-HxCB	30.98		1.0207	1.0208	+0.2	1.71E+06	1.30	1.02	63.9	1.40E+03	0.502
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.40E+03	0.496
PCB-148 22'34'56'-HxCB	32.53	J EMPC	1.0715	1.0720	+1.0	2.43E+04	1.47	1.12	1.2	1.40E+03	0.684
PCB-151/135 ...-HxCB	33.04	C	1.0886	1.0886	0	2.69E+06	1.27	1.06	141	1.40E+03	0.725
PCB-154 22'44'56'-HxCB	33.25	J	1.0955	1.0956	+0.2	1.92E+05	1.21	1.26	8.48	1.40E+03	0.612
PCB-144 22'345'6-HxCB	33.51		1.1042	1.1043	+0.2	4.12E+05	1.26	1.10	20.7	1.40E+03	0.697
PCB-147/149 ...-HxCB	33.81	C	1.1142	1.1141	-0.2	7.32E+06	1.25	1.10	368	1.40E+03	0.698
PCB-134 22'33'56-HxCB	33.99		1.1199	1.1202	+0.6	4.60E+05	1.25	0.81	31.3	1.40E+03	0.945
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.40E+03	0.703
PCB-139/140 ...-HxCB	34.33	J C	1.1313	1.1312	-0.2	2.01E+05	1.29	1.11	10	1.40E+03	0.692
PCB-131 22'33'46-HxCB	34.51	J	1.1370	1.1372	+0.4	1.34E+05	1.31	0.94	7.86	1.40E+03	0.814
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.40E+03	0.833
PCB-132 22'33'46'-HxCB	34.89		1.1495	1.1496	+0.2	2.80E+06	1.23	0.97	159	1.40E+03	0.791
PCB-133 22'33'55'-HxCB	35.29	J	1.1628	1.1629	+0.2	1.53E+05	1.24	1.04	8.16	1.40E+03	0.741
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.40E+03	0.582
PCB-146 22'34'55'-HxCB	35.85		0.9582	0.9581	-0.2	1.51E+06	1.32	1.16	72.2	1.40E+03	0.664
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.40E+03	0.54
PCB-153/168 ...-HxCB	36.37	C	0.9728	0.9722	-1.3	8.77E+06	1.24	1.38	351	1.40E+03	0.555

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.54		0.9767	0.9766	-0.2	1.37E+06	1.24	1.01	75.4	1.40E+03	0.763
PCB-130 22'33'45'-HxCB	36.88		0.9859	0.9859	0	5.77E+05	1.29	0.91	35.1	1.40E+03	0.845
PCB-137 22'344'5'-HxCB	37.08		0.9912	0.9911	-0.2	4.68E+05	1.15	1.15	22.5	1.40E+03	0.669
PCB-164 233'4'5'6'-HxCB	37.16		0.9934	0.9934	0	8.39E+05	1.43	1.37	33.9	1.40E+03	0.561
PCB-163/138/129 ...-HxCB	37.44	C	1.0011	1.0007	-0.9	9.99E+06	1.28	1.12	492	1.40E+03	0.683
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.40E+03	0.607
PCB-158 233'44'6'-HxCB	37.77		1.0096	1.0096	0	1.26E+06	1.25	1.49	47	1.40E+03	0.516
PCB-128/166 ...-HxCB	38.52	C	0.9640	0.9643	+0.7	1.57E+06	1.20	0.89	78.2	2.06E+03	1.03
PCB-159 233'455'-HxCB	39.30	J	0.9843	0.9837	-1.4	1.04E+05	1.17	1.07	4.27	2.06E+03	0.849
PCB-162 233'4'55'-HxCB	39.56	J	0.9903	0.9903	0	5.23E+04	1.22	1.07	2.15	2.06E+03	0.853
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.22E+03	0.543
PCB-179 22'33'566'-HpCB	35.53		1.0086	1.0086	0	7.53E+05	1.04	1.09	38.4	1.22E+03	0.635
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.22E+03	0.661
PCB-176 22'33'466'-HpCB	36.28		1.0300	1.0300	0	2.39E+05	1.02	1.15	11.5	1.22E+03	0.598
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.22E+03	0.638
PCB-178 22'33'55'6'-HpCB	37.81		1.0733	1.0734	+0.2	2.85E+05	1.01	0.75	20.9	1.22E+03	0.914
PCB-175 22'33'45'6'-HpCB	38.35	J	1.0888	1.0888	0	8.01E+04	0.97	1.09	4.5	2.11E+03	1.16
PCB-187 22'34'55'6'-HpCB	38.58		1.0953	1.0953	0	1.99E+06	1.09	1.17	105	2.11E+03	1.09
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	2.11E+03	1.06
PCB-183 22'344'5'6'-HpCB	39.10		1.1101	1.1101	0	9.26E+05	1.03	1.23	46.3	2.11E+03	1.03
PCB-185 22'3455'6'-HpCB	39.19	J	1.1125	1.1126	+0.2	1.64E+05	1.16	1.05	9.57	2.11E+03	1.21
PCB-174 22'33'456'-HpCB	39.30		1.1156	1.1157	+0.2	1.32E+06	1.06	1.01	80.6	2.11E+03	1.26
PCB-177 22'33'45'6'-HpCB	39.68		1.1263	1.1264	+0.2	8.17E+05	1.07	0.96	52.3	2.11E+03	1.32
PCB-181 22'344'56'-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	2.11E+03	1.17
PCB-171/173 ...-HpCB	40.21	C	1.1414	1.1416	+0.5	4.40E+05	1.07	0.95	28.6	2.11E+03	1.34
PCB-172 22'33'455'-HpCB	41.55		0.9079	0.9079	0	2.44E+05	1.07	0.99	15.1	2.11E+03	1.28
PCB-192 233'455'6'-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	2.11E+03	0.986
PCB-180/193 ...-HpCB	42.11	C	0.9193	0.9200	+1.8	3.15E+06	1.07	1.23	157	2.11E+03	1.03
PCB-191 233'44'5'6'-HpCB	42.40	J	0.9266	0.9265	-0.3	9.36E+04	1.05	1.35	4.26	2.11E+03	0.938
PCB-170 22'33'44'5'-HpCB	43.18		0.9434	0.9434	0	1.17E+06	1.08	1.12	79.5	2.11E+03	1.53
PCB-190 233'44'56'-HpCB	43.63		0.9533	0.9533	0	2.84E+05	1.04	1.54	13.9	2.11E+03	1.11
PCB-202 22'33'55'66'-OcCB	39.78		1.0005	1.0005	0	2.95E+05	1.01	1.05	16.7	1.43E+03	0.843
PCB-201 22'33'45'66'-OcCB	40.57	J	1.0203	1.0204	+0.2	1.59E+05	0.89	1.12	8.49	1.43E+03	0.795
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.43E+03	0.855
PCB-197 22'33'44'66'-OcCB	41.33	J	1.0395	1.0395	0	1.25E+05	0.93	1.09	6.82	1.43E+03	0.814
PCB-200 22'33'4566'-OcCB	41.43	J	1.0418	1.0419	+0.2	8.70E+04	0.92	1.09	4.77	1.43E+03	0.818
PCB-198/199 ...-OcCB	43.76	C	1.1002	1.1007	+1.3	5.34E+05	0.85	0.72	44.1	1.43E+03	1.23
PCB-196 22'33'44'56'-OcCB	44.32		1.1147	1.1147	0	2.53E+05	0.95	0.76	19.7	1.43E+03	1.16
PCB-203 22'344'55'6'-OcCB	44.49		1.1189	1.1190	+0.3	3.09E+05	0.99	0.78	23.6	1.43E+03	1.14
PCB-195 22'33'44'56'-OcCB	45.61		0.9516	0.9516	0	1.53E+05	0.96	0.75	15	1.77E+03	1.79
PCB-194 22'33'44'55'-OcCB	47.55		0.9921	0.9921	0	4.08E+05	0.95	0.81	36.7	1.77E+03	1.65
PCB-205 233'44'55'6'-OcCB	47.96	J	1.0004	1.0005	+0.3	4.39E+04	0.80	1.06	3.03	1.77E+03	1.26
PCB-208 22'33'455'66'-NoCB	45.41		1.0005	1.0005	0	9.45E+05	0.79	1.12	53.4	3.01E+03	1.78
PCB-207 22'33'44'566'-NoCB	46.20		1.0178	1.0178	0	8.79E+05	0.78	1.14	49.1	3.01E+03	1.76
PCB-206 22'33'44'55'6'-NoCB	49.41		1.0004	1.0004	0	6.45E+05	0.76	1.11	60.5	3.01E+03	2.99

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Sample ID: PB020-1SWMID-140313-N (TOTAL)  
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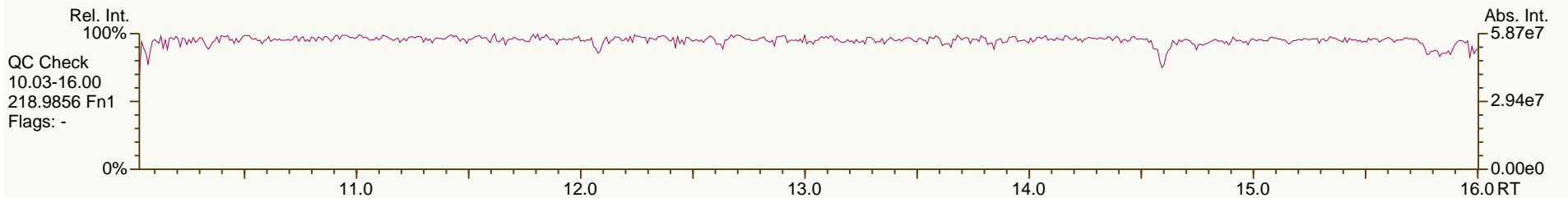
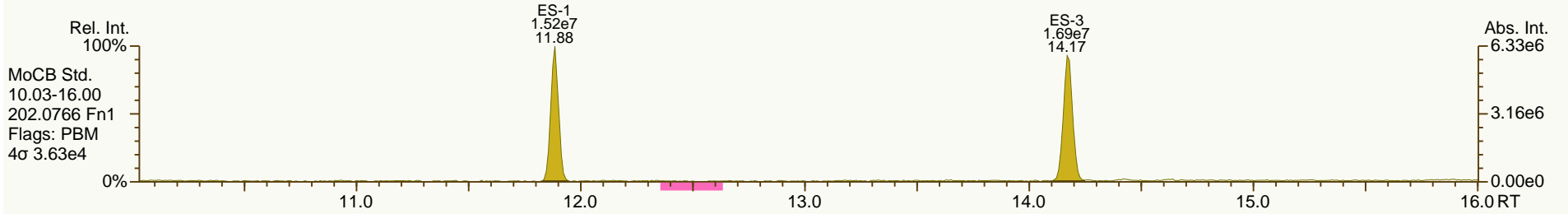
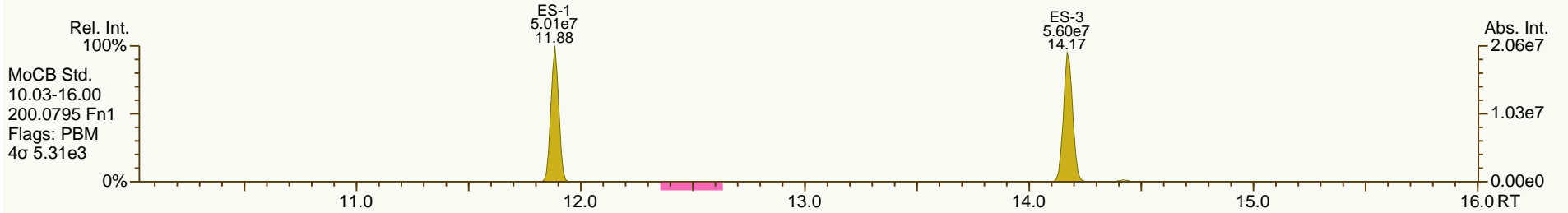
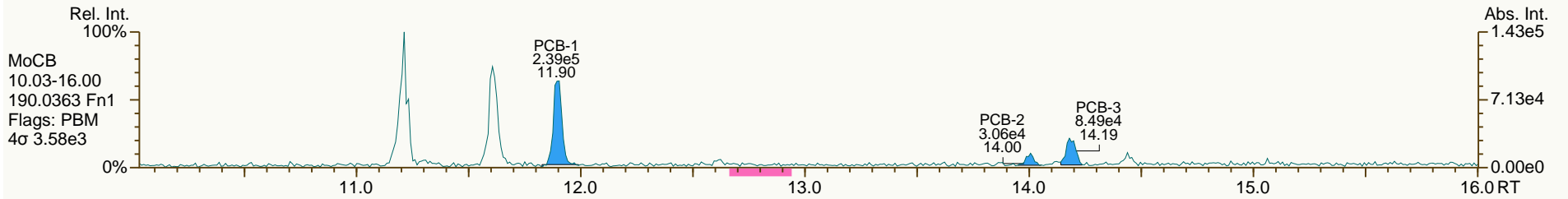
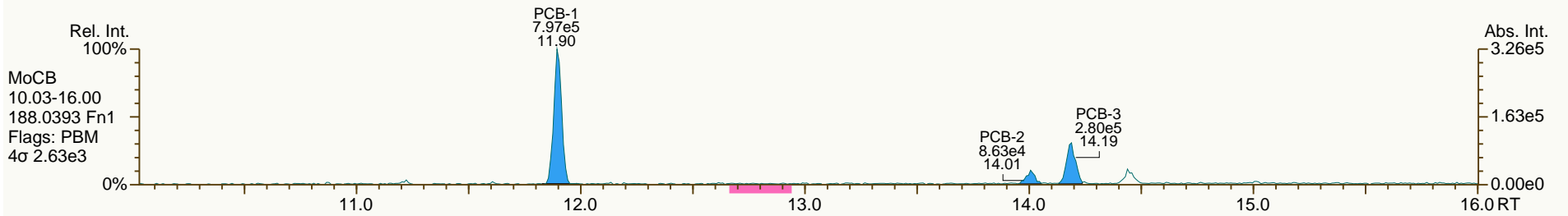
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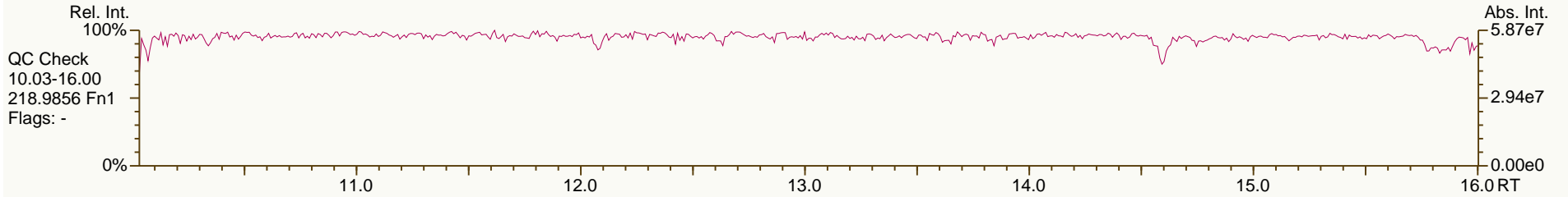
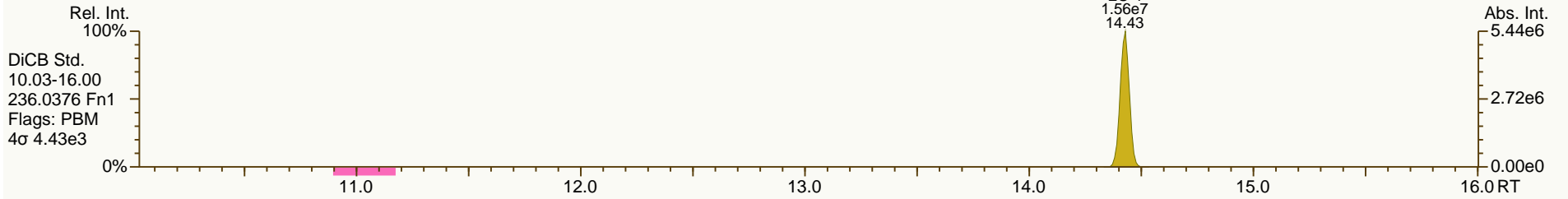
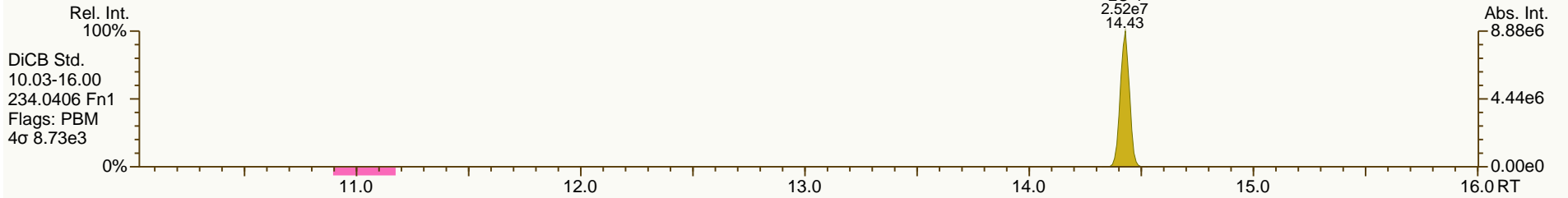
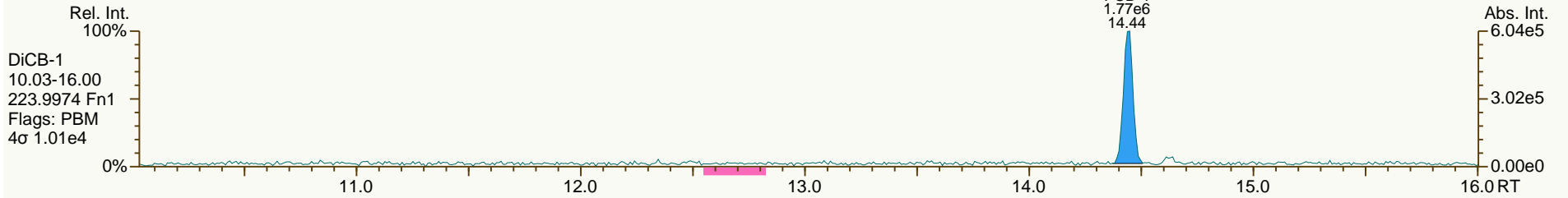
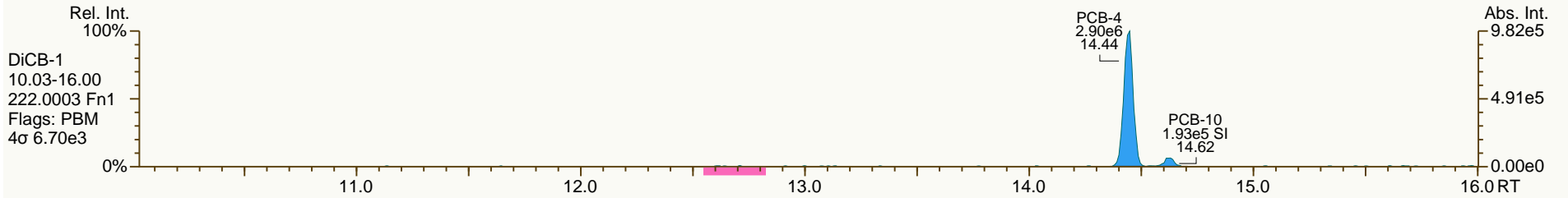
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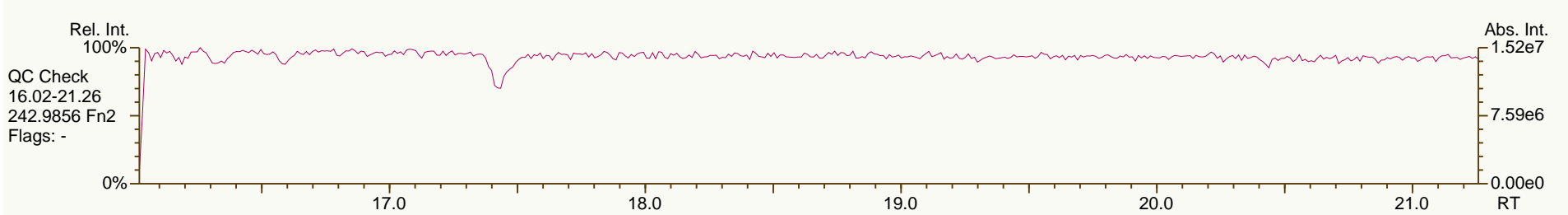
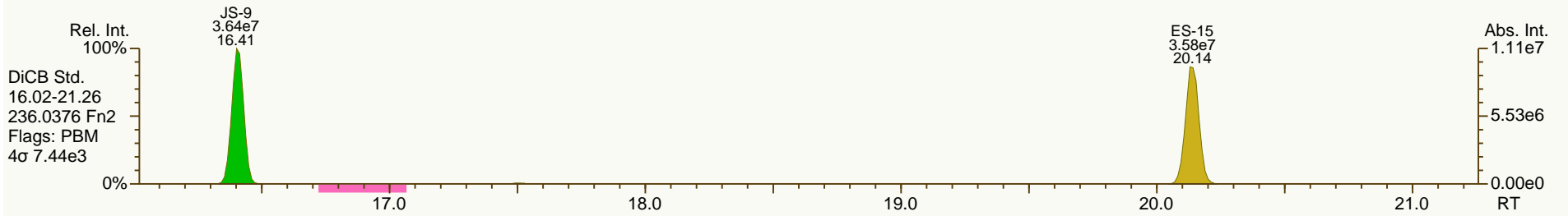
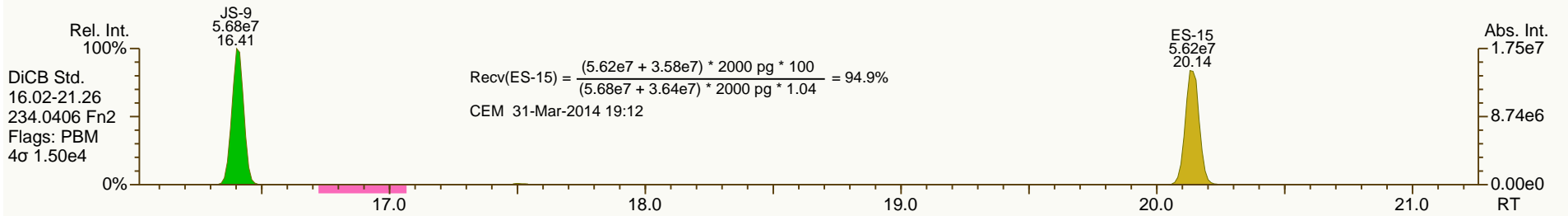
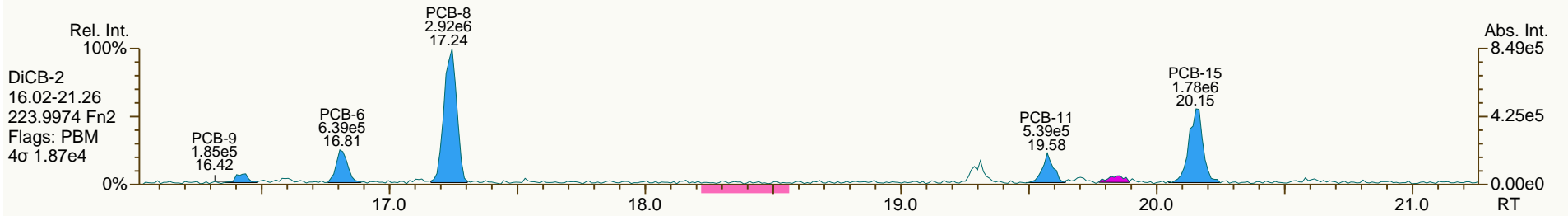
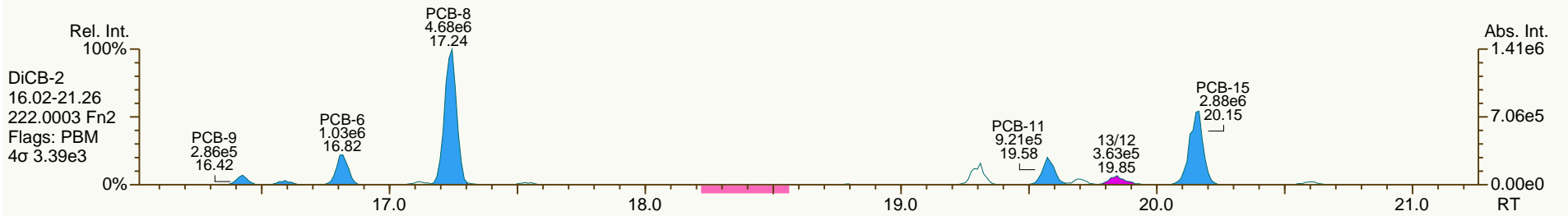




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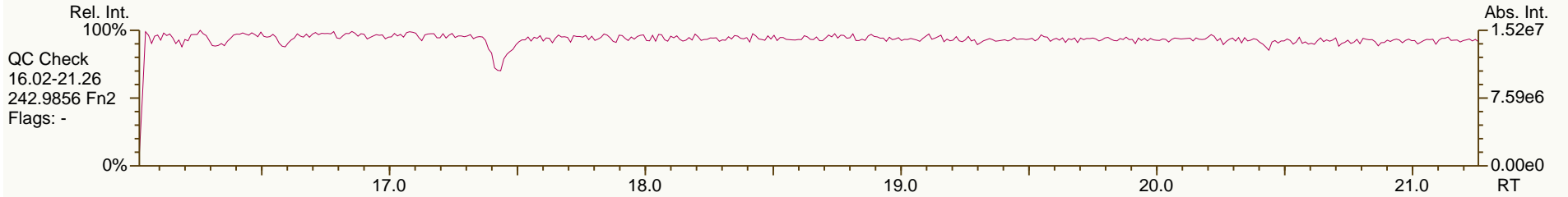
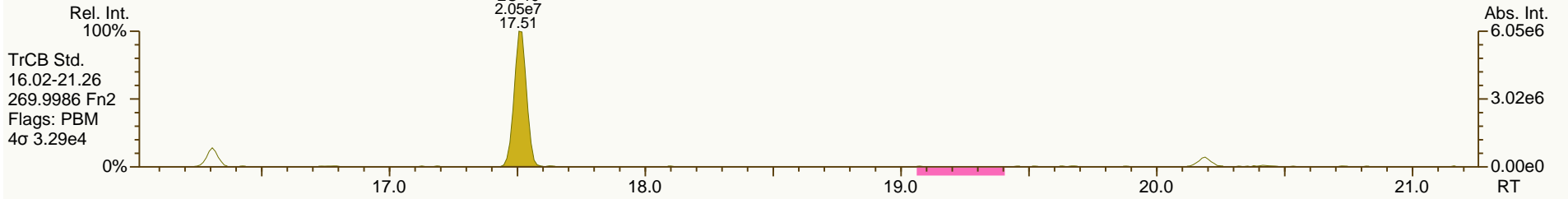
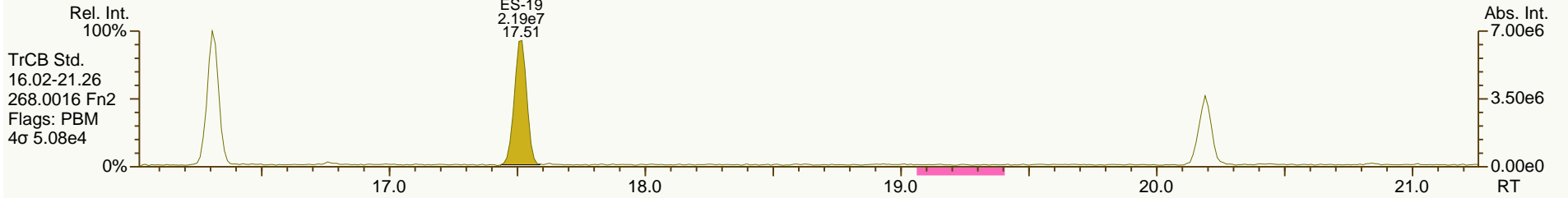
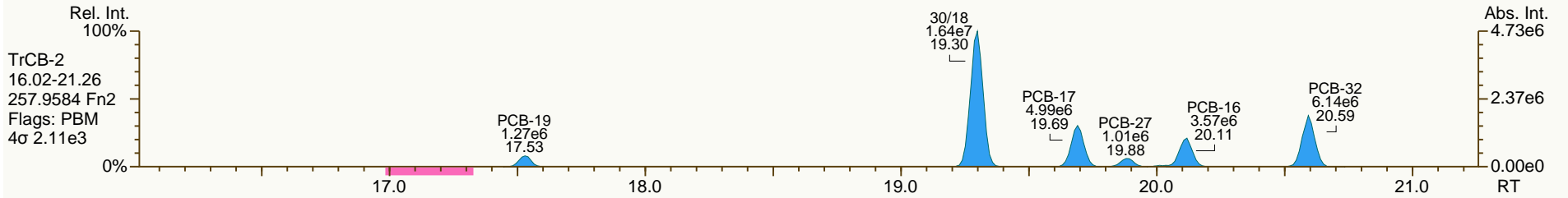
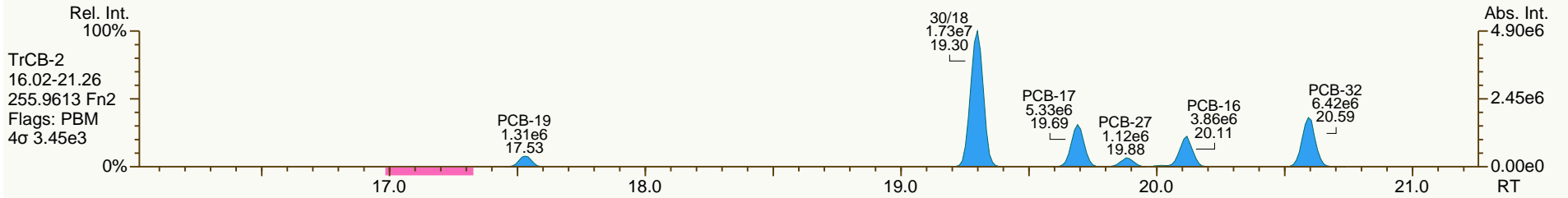
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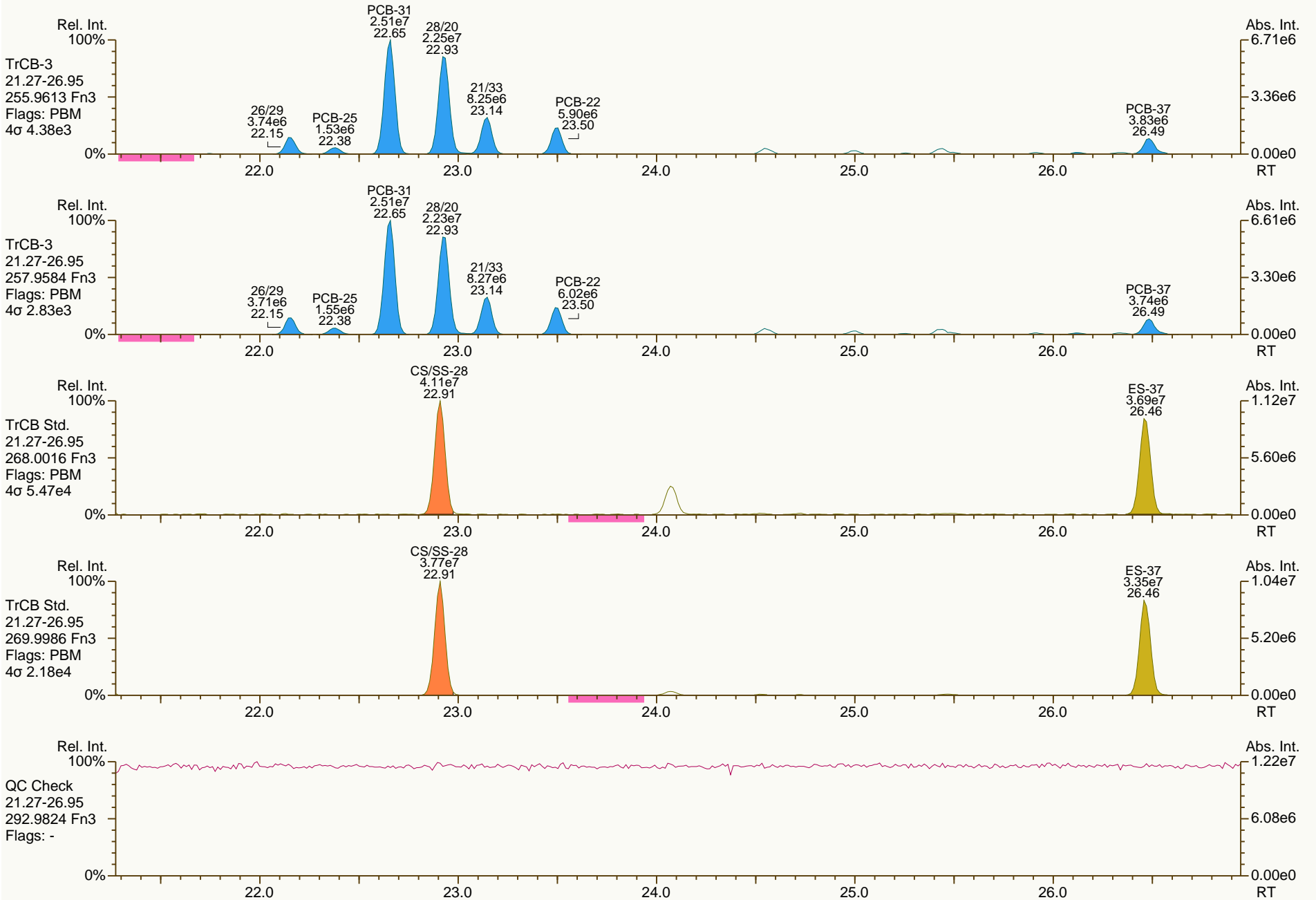
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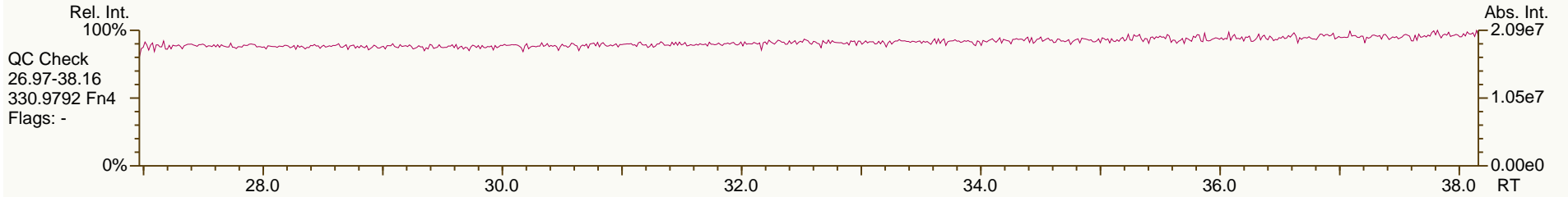
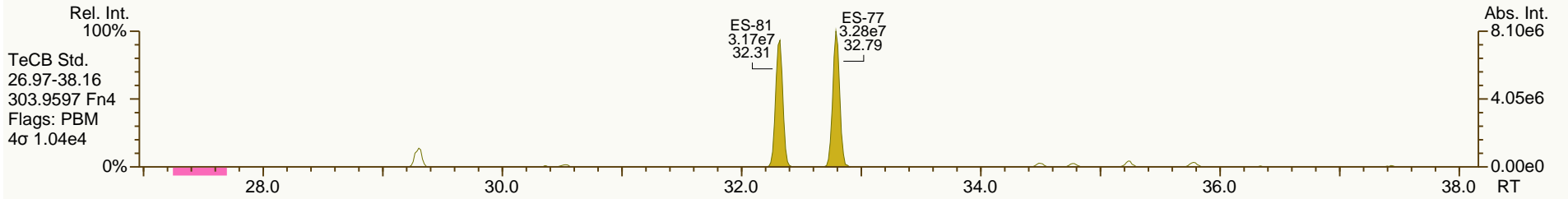
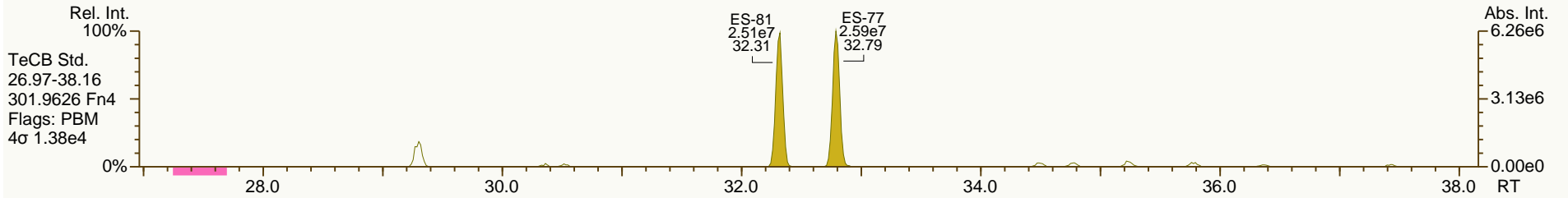
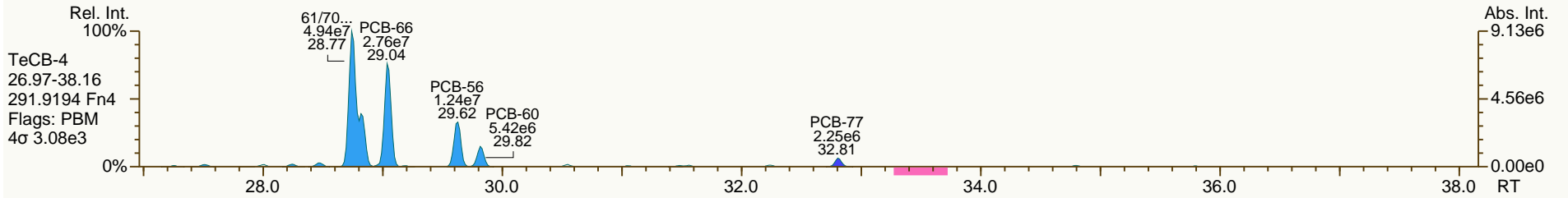
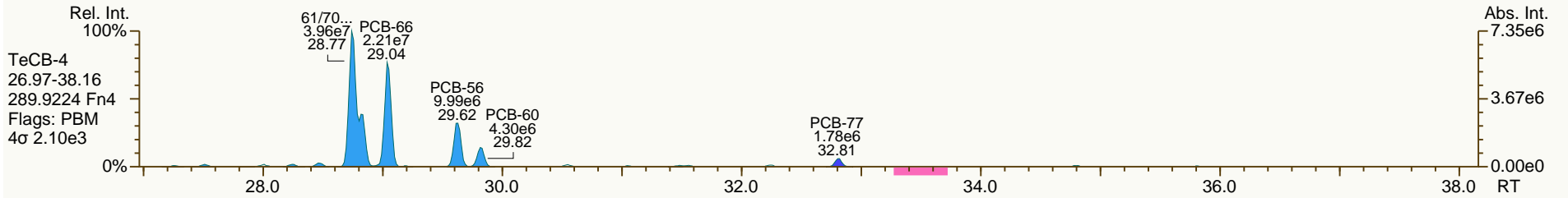
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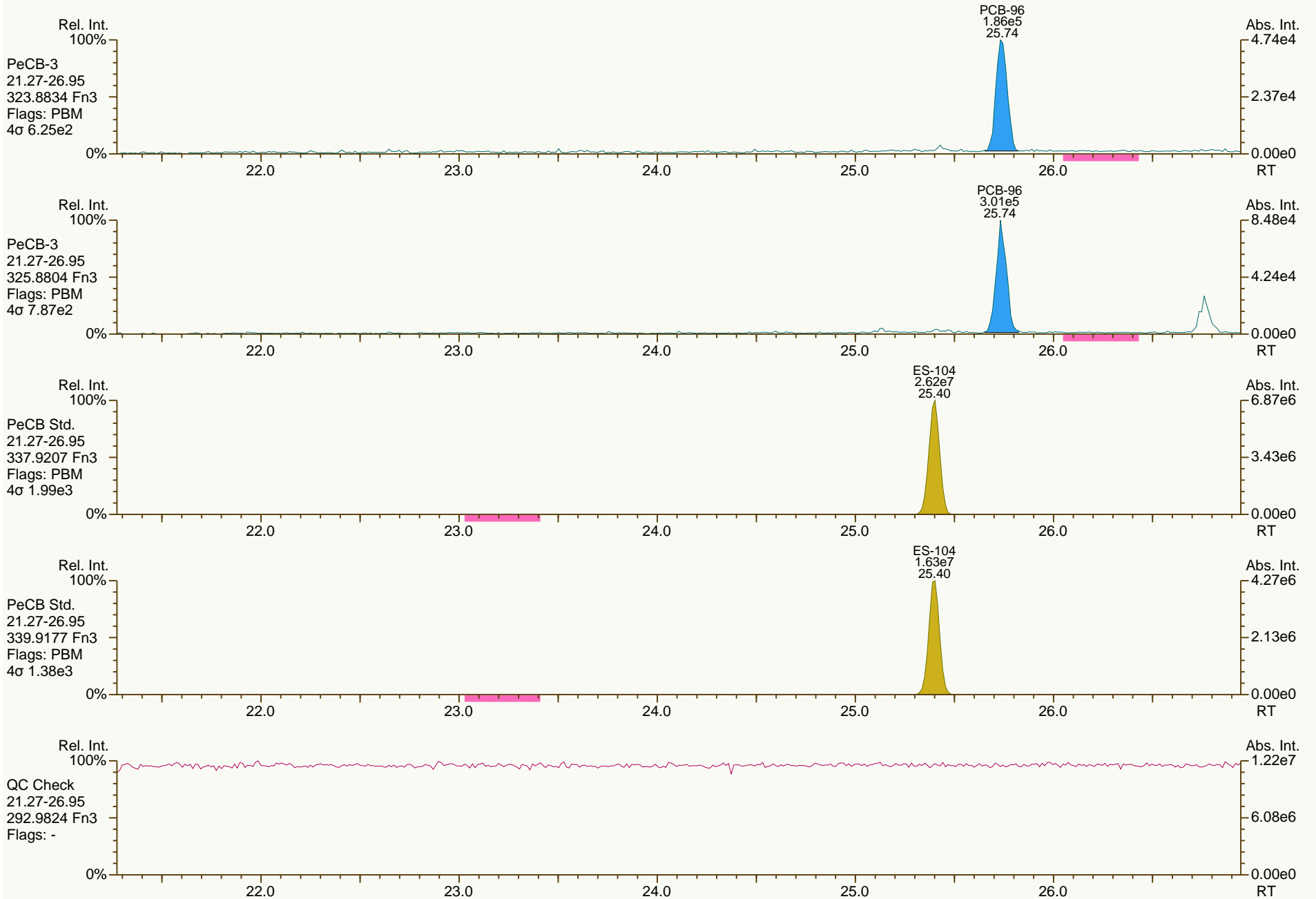
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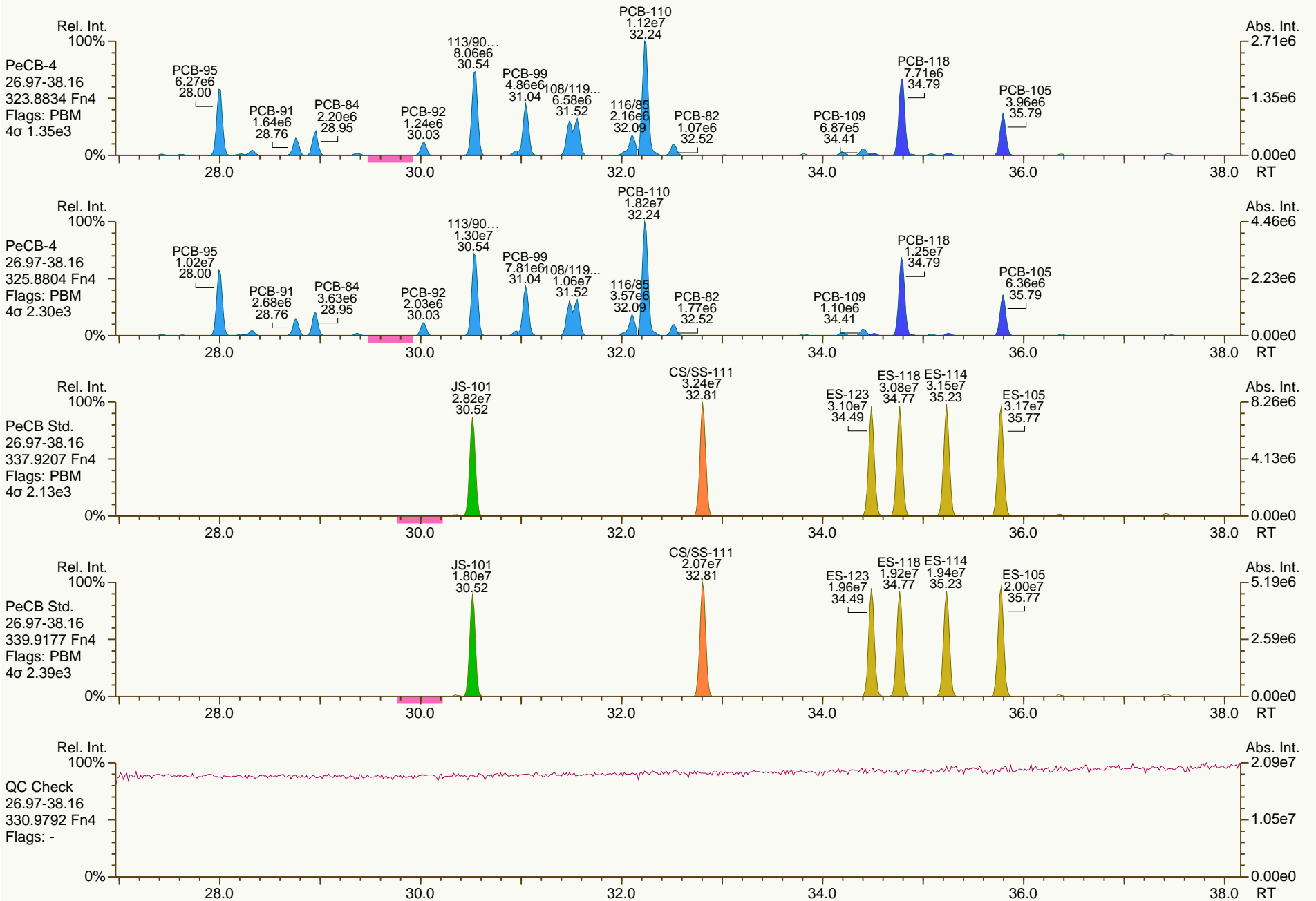
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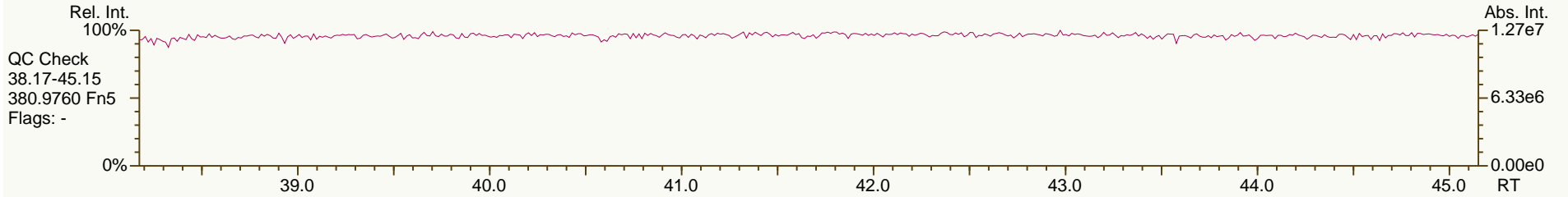
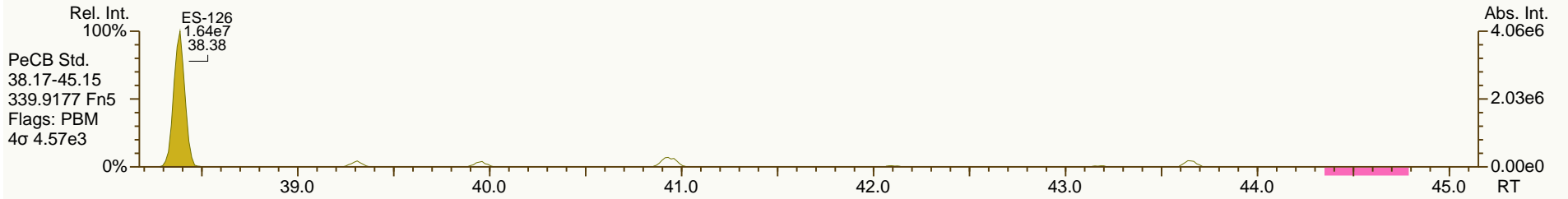
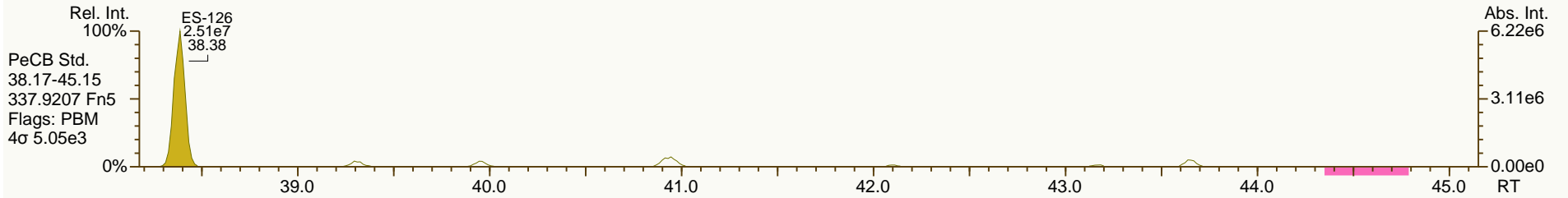
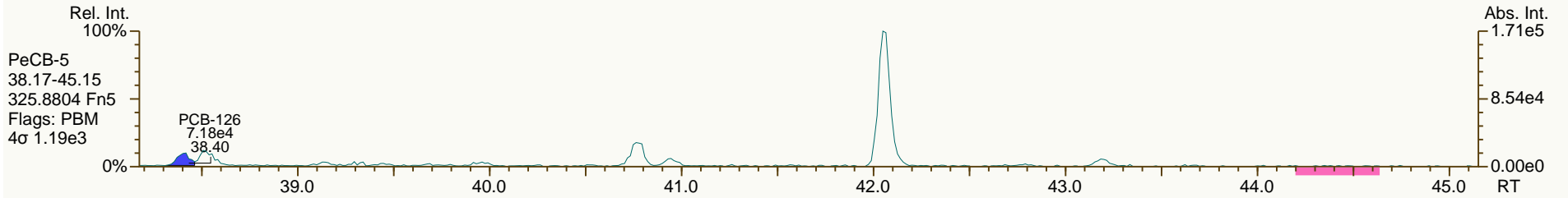
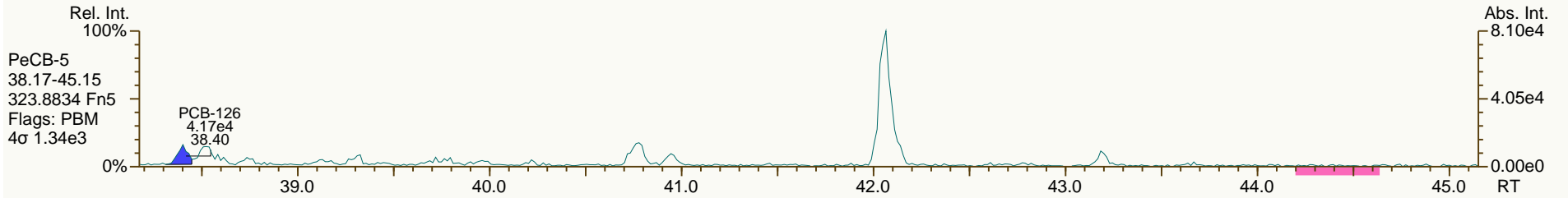




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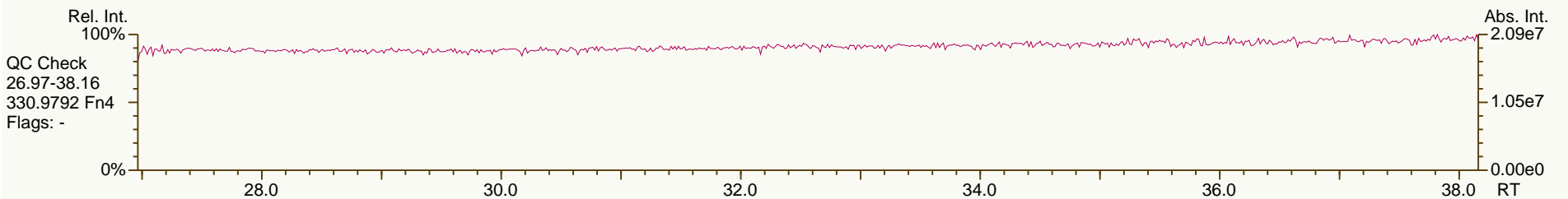
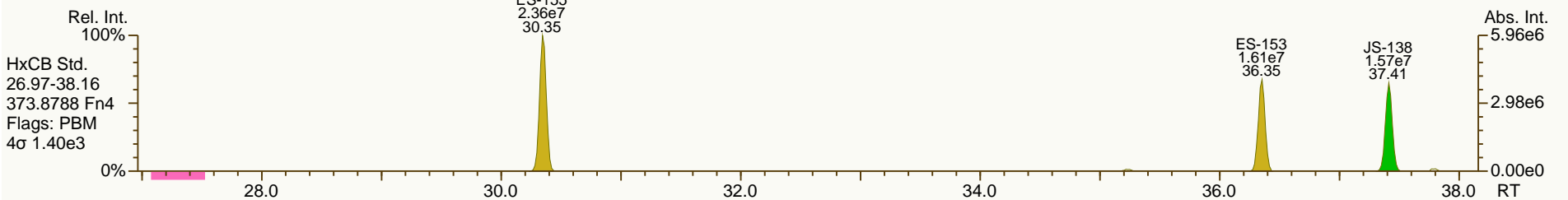
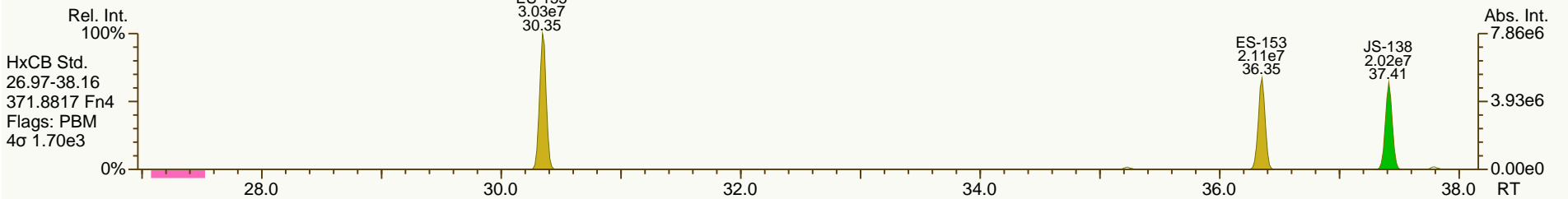
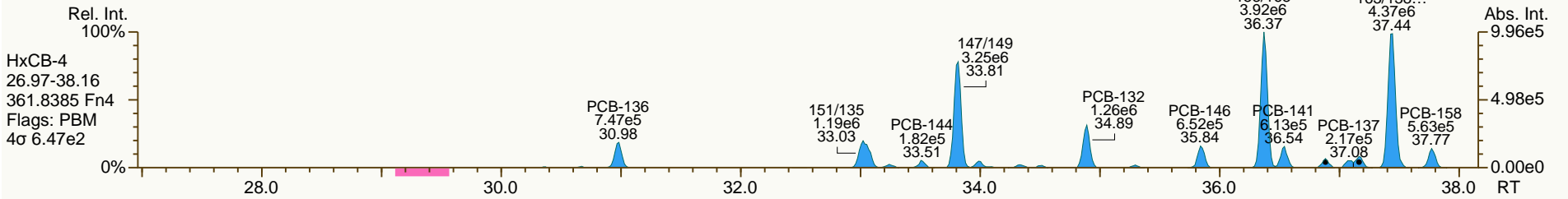
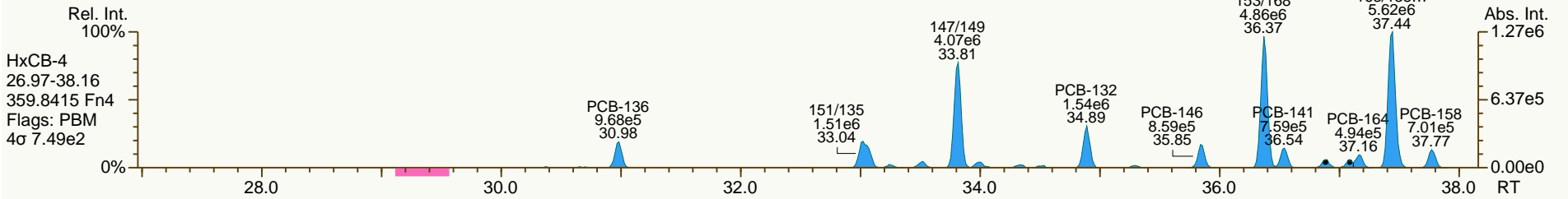
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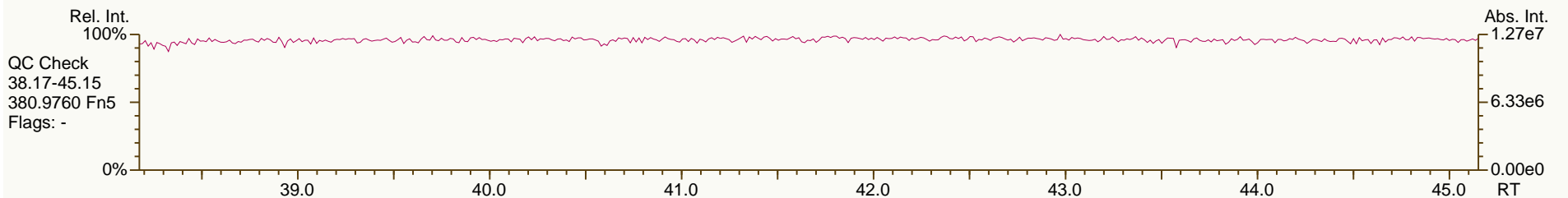
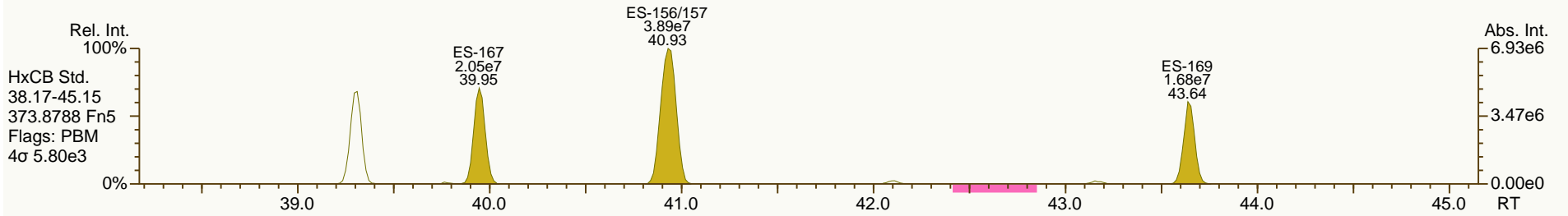
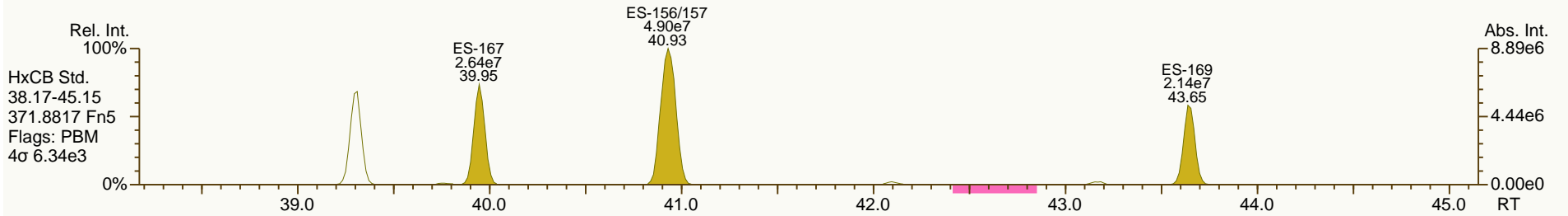
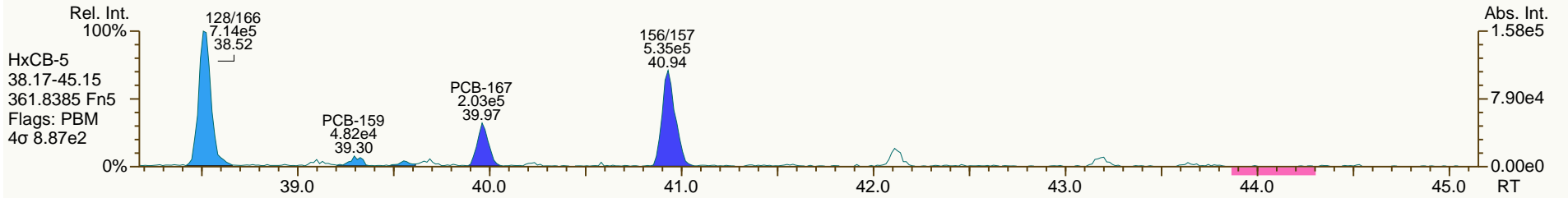
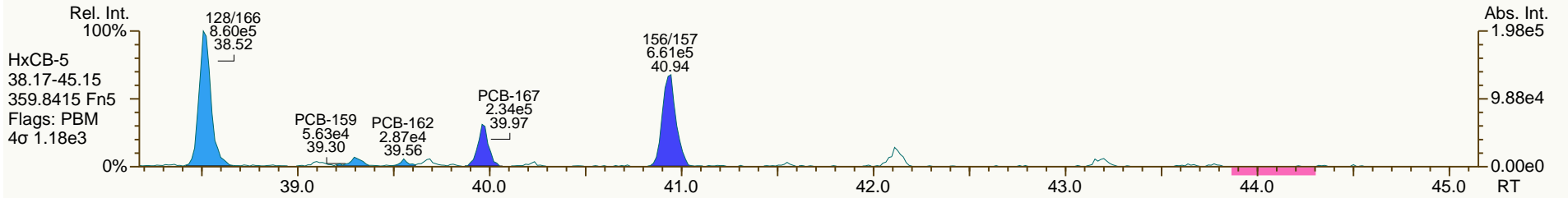
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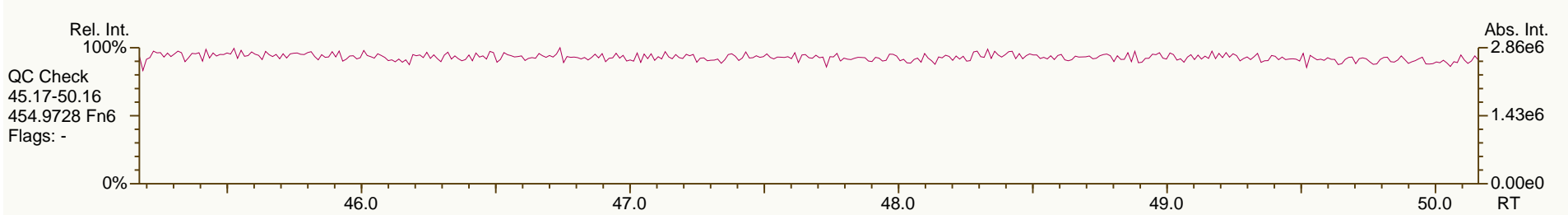
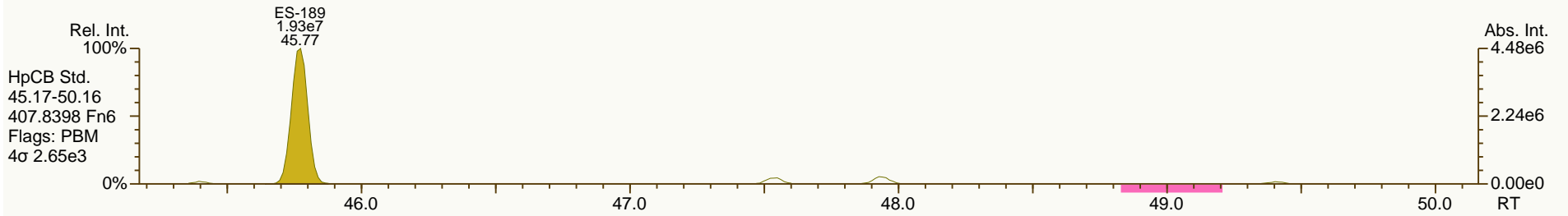
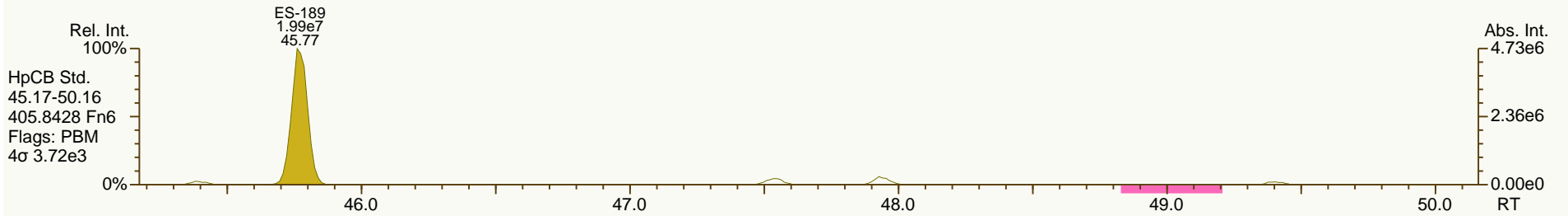
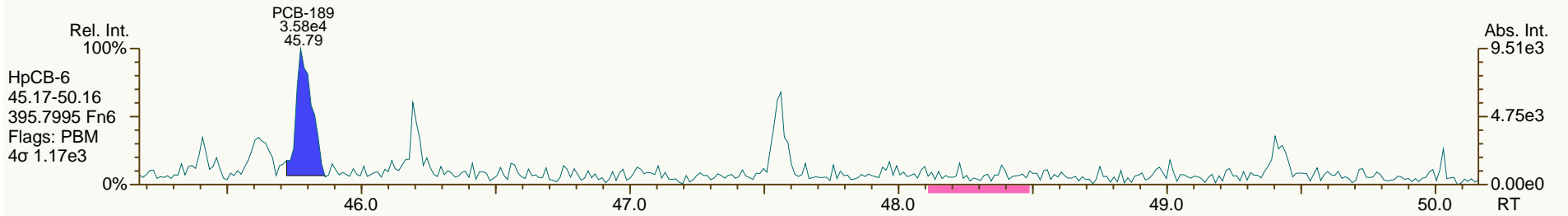
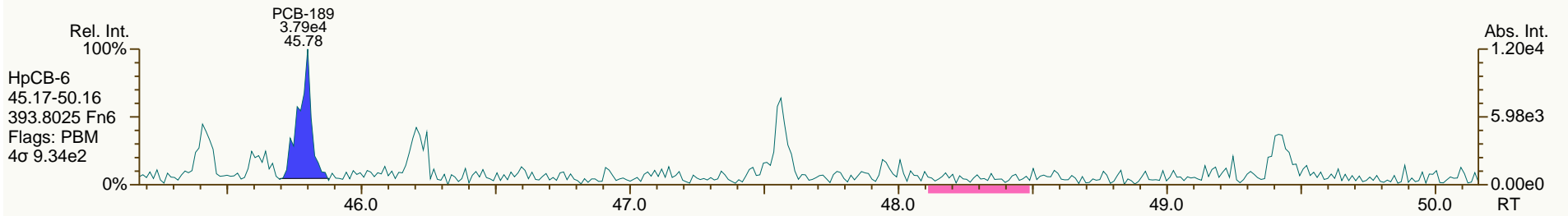
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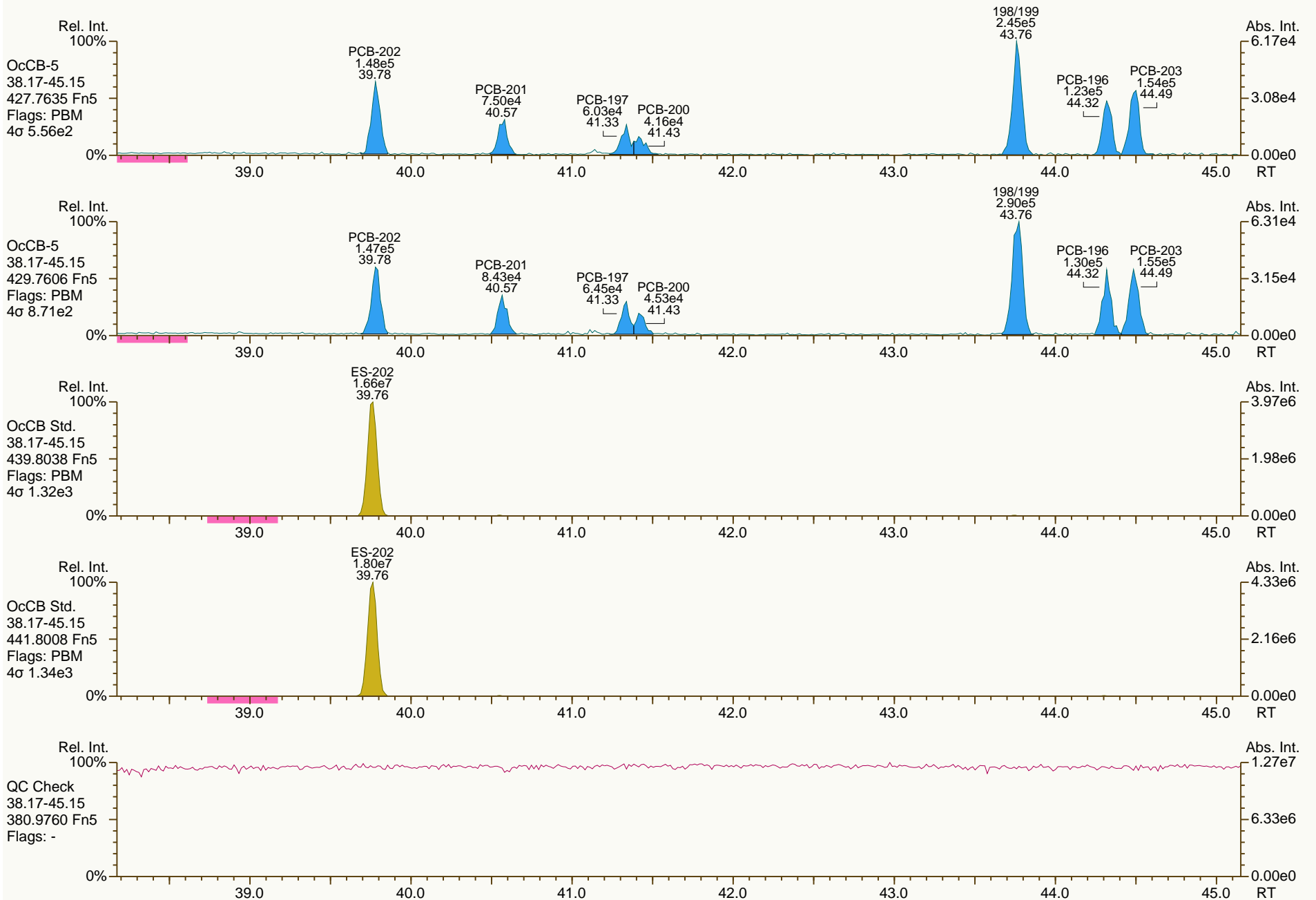
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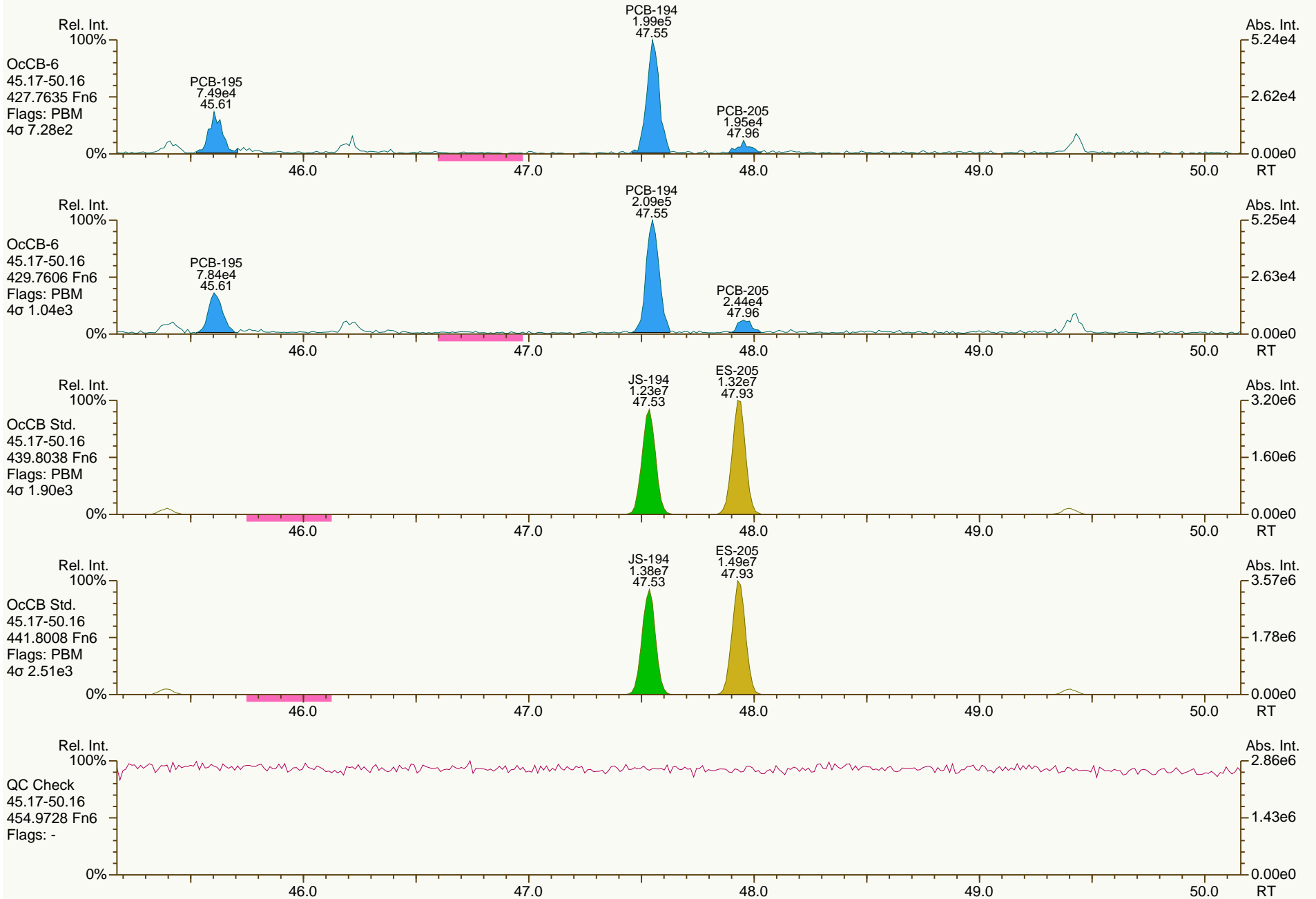
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SGS-AP ID: A6504\_11892\_PCB\_001  
 Instr: AutoSpec-Premier MM7

Sample ID: PB020-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 34

Acq: 26-Mar-2014 22:02:20  
 User: LKB Datafile: 140326X09

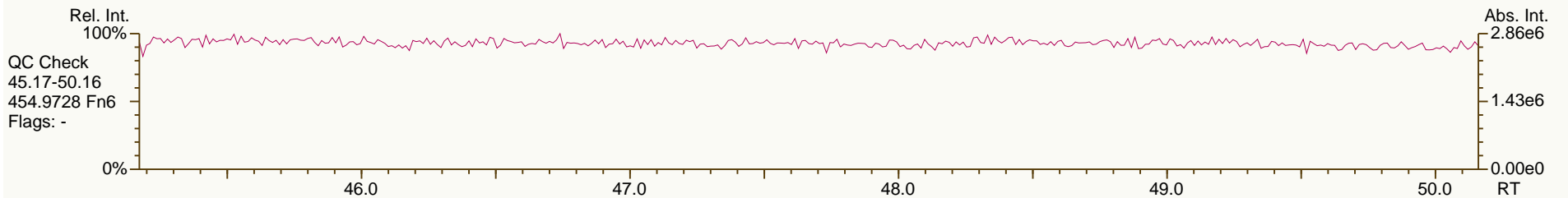
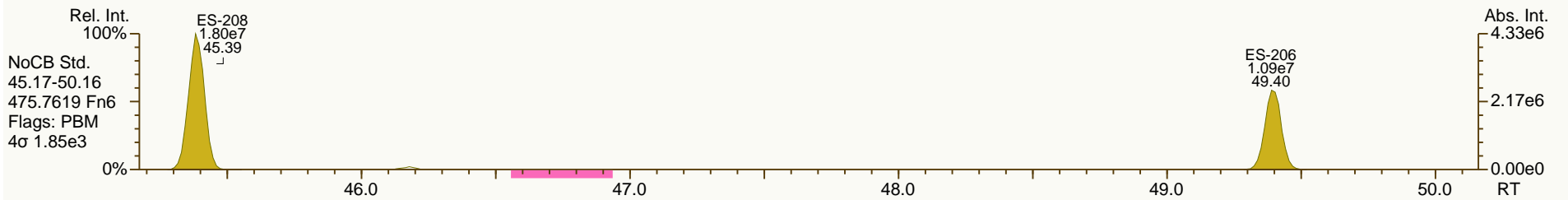
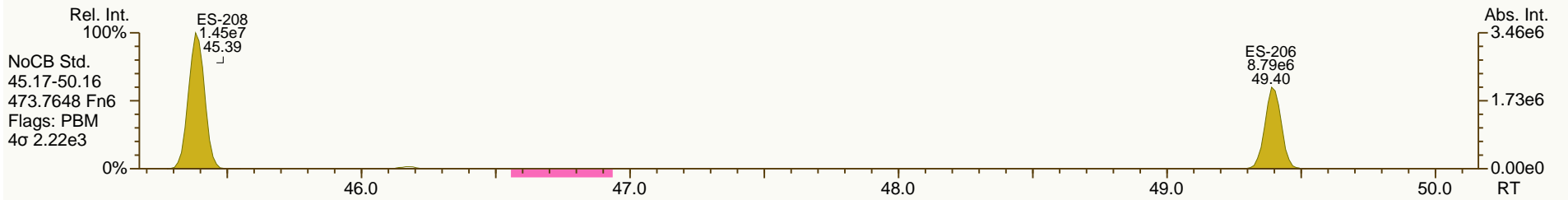
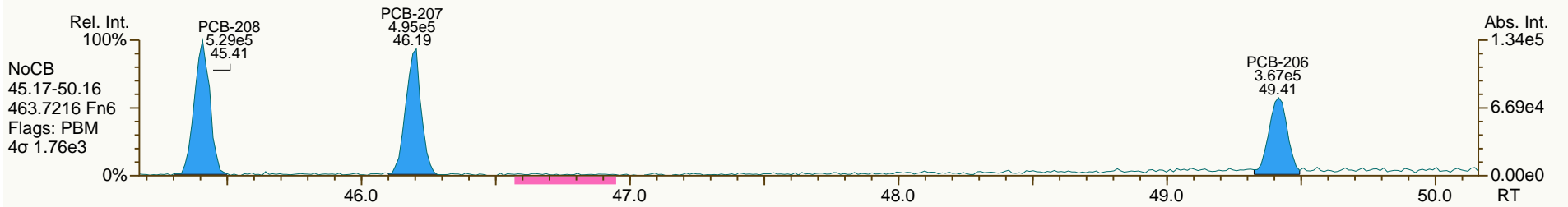
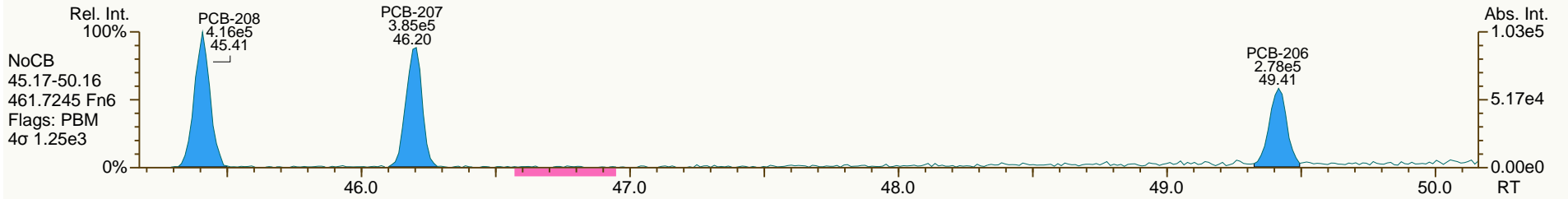




SGS-AP ID: A6504\_11892\_PCB\_001  
 Instr: AutoSpec-Premier MM7

Sample ID: PB020-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 34

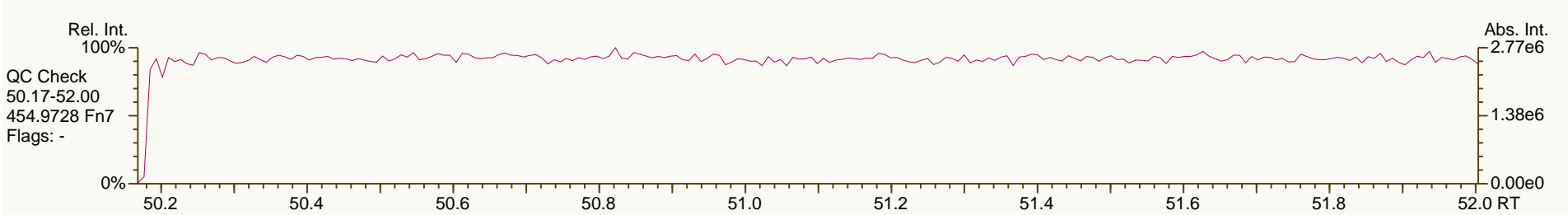
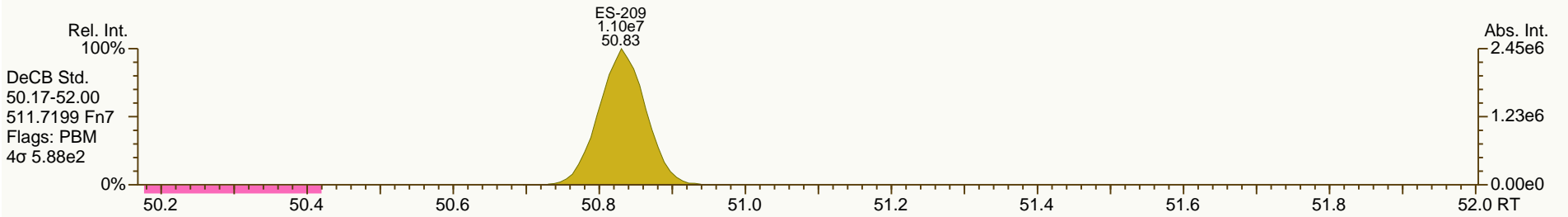
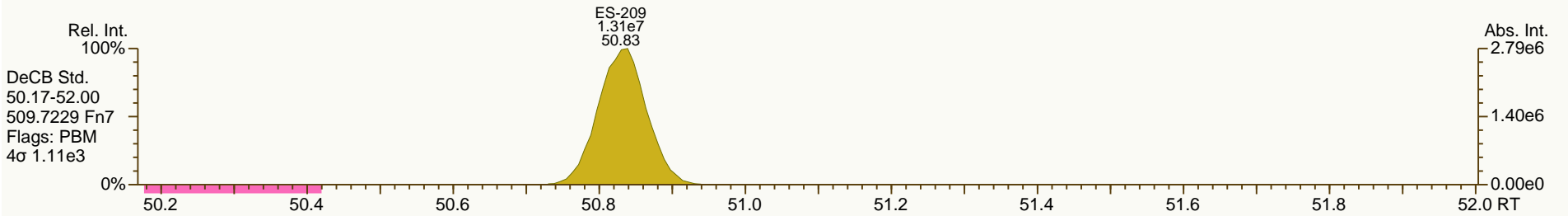
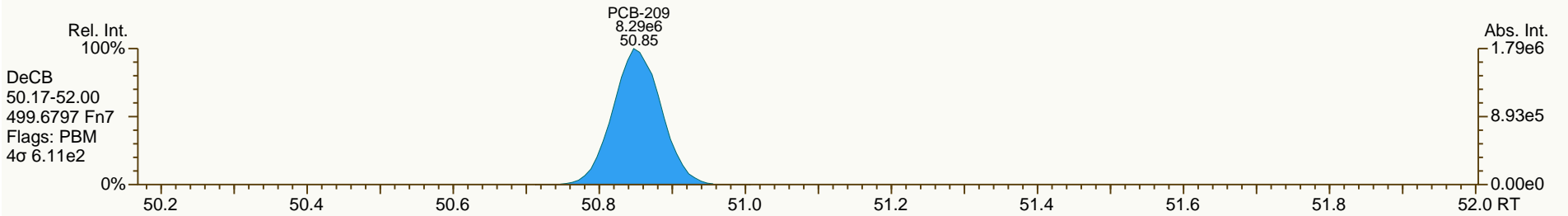
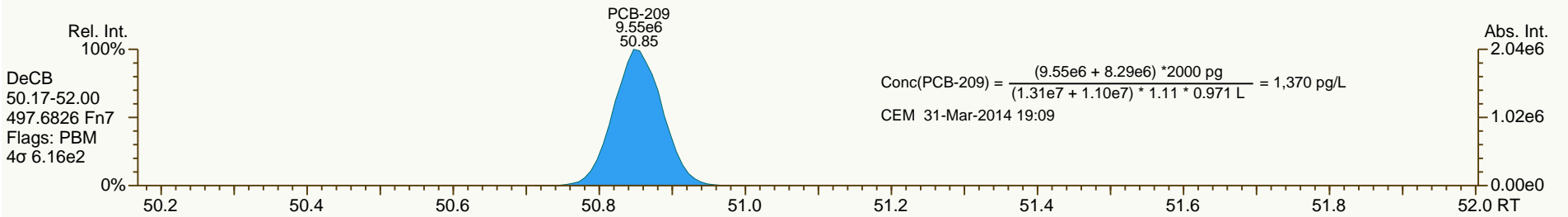
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 User: LKB Datafile: 140326X09



SGS-AP ID: A6504\_11892\_PCB\_001  
 Instr: AutoSpec-Premier MM7

Sample ID: PB020-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 34

Acq: 26-Mar-2014 22:02:20  
 User: LKB Datafile: 140326X09



Lab ID: A6504\_11892\_PCB\_002

ACQ: 26-Mar-2014 22:57:34 LKB

Wt/Vol: 0.98 L

ICAL: MM7\_PCB\_10292013\_20DEC2013\_CS3\_140326\_PCB\_XC

Client ID: PB031.1-1SWMID-140313-N (TOTAL)

UTP: 31-Mar-2014 15:25 CEM

J-level: 10.2 pg/L Split: 1

Checkcode: 645-564-GVL

Datafile: 140326X10

RPT: 31-Mar-2014 18:58 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.80		1.0006	1.0005	-0.2	2.66E+06	0.80	1.15	83.4	5.49E+03	1.72
PCB-81 344'5'-TeCB	32.33	J	1.0005	1.0007	+0.4	1.10E+05	0.71	1.12	3.64	5.49E+03	1.84
PCB-105 233'44'-PeCB	35.79		1.0007	1.0006	-0.2	7.08E+06	0.61	1.11	268	3.20E+03	1.24
PCB-114 2344'5'-PeCB	35.25		1.0006	1.0006	0	4.41E+05	0.62	1.20	15.5	3.20E+03	1.13
PCB-118 23'44'5'-PeCB	34.78		1.0006	1.0006	0	1.38E+07	0.61	1.19	500	3.20E+03	1.17
PCB-123 23'44'5'-PeCB	34.51		1.0007	1.0007	0	3.48E+05	0.61	1.21	12.3	3.20E+03	1.11
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.22E+03	1.04
PCB-156/157 ...-HxCB	40.93	C	1.0005	1.0002	-0.7	7.82E+05	1.22	1.10	35.1	2.19E+03	1.32
PCB-167 23'44'55'-HxCB	39.96		1.0006	1.0005	-0.2	2.75E+05	1.30	1.16	10.9	2.19E+03	0.891
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.19E+03	1.08
PCB-189 233'44'55'-HpCB	45.78	J EMPC	1.0004	1.0005	+0.3	4.01E+04	0.71	1.07	2.05	1.65E+03	0.9
PCB-209 DeCB	50.84		1.0004	1.0004	0	7.43E+06	1.18	1.11	580	1.42E+03	1.26
ES PCB-1	11.88		0.7244	0.7243	-0.1	5.79E+07	3.26	1.19	58.4 %	15%	150%
ES PCB-3	14.17		0.8639	0.8639	0	6.43E+07	3.28	1.09	71.2 %	15%	150%
ES PCB-4	14.42		0.8794	0.8793	-0.1	3.56E+07	1.64	0.52	82 %	25%	150%
ES PCB-15	20.14		1.2273	1.2275	+0.2	8.65E+07	1.58	1.04	100 %	25%	150%
ES PCB-19	17.51		1.0673	1.0674	+0.1	3.91E+07	1.06	0.51	93.1 %	25%	150%
ES PCB-37	26.46		1.0788	1.0789	+0.2	6.71E+07	1.10	1.66	88.3 %	25%	150%
ES PCB-54	20.42		0.8328	0.8326	-0.2	3.90E+07	0.76	0.86	99 %	25%	150%
ES PCB-77	32.79		1.3366	1.3369	+0.6	5.65E+07	0.81	1.38	89.4 %	25%	150%
ES PCB-81	32.31		1.3172	1.3174	+0.4	5.52E+07	0.80	1.37	88.4 %	25%	150%
ES PCB-104	25.39		0.8324	0.8323	-0.2	3.88E+07	1.59	0.80	117 %	25%	150%
ES PCB-105	35.77		1.1721	1.1723	+0.4	4.85E+07	1.60	1.20	97.7 %	25%	150%
ES PCB-114	35.23		1.1544	1.1545	+0.2	4.82E+07	1.65	1.22	95.8 %	25%	150%
ES PCB-118	34.76		1.1392	1.1393	+0.2	4.72E+07	1.64	1.16	98.7 %	25%	150%
ES PCB-123	34.48		1.1300	1.1301	+0.2	4.77E+07	1.59	1.19	97.4 %	25%	150%
ES PCB-126	38.38		1.2577	1.2578	+0.2	4.11E+07	1.52	1.03	96.7 %	25%	150%
ES PCB-153	36.34		0.9716	0.9716	0	3.50E+07	1.28	1.11	94.3 %	25%	150%
ES PCB-155	30.34		0.8113	0.8112	-0.2	5.06E+07	1.29	1.59	96.2 %	25%	150%
ES PCB-156/157	40.92		1.0940	1.0941	+0.2	8.30E+07	1.26	1.60	78.4 %	25%	150%
ES PCB-167	39.94		1.0677	1.0677	0	4.44E+07	1.25	1.67	80.4 %	25%	150%
ES PCB-169	43.64		1.1666	1.1666	0	3.84E+07	1.26	1.56	74.6 %	25%	150%
ES PCB-170	43.15		0.9080	0.9080	0	2.56E+07	1.09	0.95	95.3 %	25%	150%
ES PCB-180	42.09		0.8855	0.8855	0	3.15E+07	1.09	1.14	97.7 %	25%	150%
ES PCB-188	35.22		0.7411	0.7411	0	3.50E+07	1.10	0.94	113 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	3.72E+07	1.04	1.58	98.8 %	25%	150%
ES PCB-202	39.75		0.8365	0.8365	0	3.32E+07	0.89	0.97	104 %	25%	150%
ES PCB-205	47.92		1.0084	1.0084	0	2.69E+07	0.90	1.24	91 %	25%	150%
ES PCB-206	49.39		1.0392	1.0392	0	1.90E+07	0.80	0.83	96.1 %	25%	150%
ES PCB-208	45.38		0.9548	0.9548	0	3.05E+07	0.79	1.17	109 %	25%	150%
ES PCB-209	50.82		1.0694	1.0694	0	2.35E+07	1.19	1.11	89 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.90		0.9339	0.9339	0	7.77E+07	1.10	1.11	104 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	5.20E+07	1.60	1.03	106 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	2.26E+07	1.07	0.62	104 %	30%	135%
CS PCB-28	22.90		0.9339	0.9339	0	7.77E+07	1.10	1.85	92.1 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	5.20E+07	1.60	1.22	103 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	2.26E+07	1.07	0.58	118 %	30%	135%
JS PCB-9	16.40					8.31E+07	1.57				
JS PCB-52	24.52					4.57E+07	0.81				
JS PCB-101	30.51					4.13E+07	1.59				
JS PCB-138	37.41					3.31E+07	1.31				
JS PCB-194	47.53					2.38E+07	0.90				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	31.9	31.9	1.44		
						Di-CBs	467	475	2.04		
						Tri-CBs	4,690	4,690	1.83		
						Tetra-CBs	11,100	11,100	1.29		
						Penta-CBs	4,740	4,740	1.05		
						Hexa-CBs	1,400	1,420	0.933		
						Hepta-CBs	455	459	0.869		
						Octa-CBs	90.5	105	1.02		
						Nona-CBs	64.6	64.6	2.53		
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	6.79E+05	3.01	0.95	25.1	6.31E+03	1.45
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	6.31E+03	1.29
PCB-3 4-MoCB	14.19	J	1.0010	1.0011	+0.1	2.13E+05	2.89	1.01	6.72	6.31E+03	1.42
PCB-4 22'-DiCB	14.44		1.0011	1.0011	0	3.63E+06	1.58	1.23	169	7.58E+03	2.56
PCB-10 26'-DiCB	14.62	J	1.0135	1.0135	0	2.37E+05	1.51	1.92	7.09	7.58E+03	1.64
PCB-9 25'-DiCB	16.42	J EMPC	1.0010	1.0010	0	3.24E+05	1.30	0.96	7.97	7.23E+03	1.63
PCB-7 24'-DiCB	16.59	J	1.0111	1.0111	0	1.79E+05	SI	1.10	3.84	7.23E+03	1.42
PCB-6 23'-DiCB	16.81		1.0249	1.0249	0	1.25E+06	1.42	1.01	29	7.23E+03	1.54
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	7.23E+03	1.55
PCB-8 24'-DiCB	17.23		1.0505	1.0507	+0.2	5.84E+06	1.63	1.06	130	7.23E+03	1.47
PCB-14 35'-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	7.23E+03	1.29
PCB-11 33'-DiCB	19.57	B	0.9721	0.9721	0	1.06E+06	1.49	1.06	23.5	7.23E+03	1.47
PCB-13/12 34' /34'-DiCB	19.85	J C	0.9866	0.9856	-1.2	4.71E+05	SI	1.05	10.6	7.23E+03	1.49
PCB-15 44'-DiCB	20.15		1.0008	1.0007	-0.1	4.09E+06	1.70	1.02	94.6	7.23E+03	1.53
PCB-19 22'6-TrCB	17.53		1.0010	1.0010	0	2.27E+06	1.07	1.15	103	4.70E+03	1.78
PCB-30/18 246/22'5-TrCB	19.29	C	1.1015	1.1020	+0.6	2.71E+07	1.04	1.54	918	4.70E+03	1.33
PCB-17 22'4-TrCB	19.69		1.1244	1.1245	+0.1	7.97E+06	1.07	1.32	316	4.70E+03	1.55
PCB-27 23'6-TrCB	19.88		1.1354	1.1355	+0.1	1.75E+06	1.04	1.79	51	4.70E+03	1.14
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	4.70E+03	1.19
PCB-16 22'3-TrCB	20.11		1.1485	1.1486	+0.1	6.08E+06	1.08	0.98	324	4.70E+03	2.09

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.59		1.1759	1.1761	+0.2	1.01E+07	1.04	1.92	274	4.70E+03	1.06
PCB-34 23'5'-TrCB	21.74	J	0.8218	0.8216	-0.3	1.80E+05	1.02	1.23	4.47	6.97E+03	1.65
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	6.97E+03	1.63
PCB-26/29 23'5'/245-TrCB	22.15		0.8382	0.8372	-1.3	5.82E+06	1.01	1.27	140	6.97E+03	1.6
PCB-25 23'4-TrCB	22.37		0.8457	0.8456	-0.1	2.50E+06	0.99	1.27	59.8	6.97E+03	1.59
PCB-31 24'5-TrCB	22.65		0.8562	0.8560	-0.3	3.94E+07	1.01	1.33	903	6.97E+03	1.53
PCB-28/20 244'/233'-TrCB	22.92	C	0.8669	0.8664	-0.7	3.56E+07	1.00	1.23	879	6.97E+03	1.65
PCB-21/33 234/23'4'-TrCB	23.14	C	0.8738	0.8745	+1.0	1.23E+07	0.99	1.27	296	6.97E+03	1.6
PCB-22 234'-TrCB	23.49		0.8879	0.8878	-0.1	9.51E+06	1.00	1.18	245	6.97E+03	1.72
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	6.97E+03	1.57
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	6.97E+03	1.51
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	6.97E+03	1.67
PCB-35 33'4-TrCB	26.12		0.9871	0.9871	0	4.95E+05	1.09	1.17	12.9	6.97E+03	1.74
PCB-37 344'-TrCB	26.48		1.0007	1.0009	+0.3	5.75E+06	1.00	1.08	162	6.97E+03	1.88
PCB-54 22'66'-TeCB	20.44	J	1.0010	1.0011	+0.1	1.47E+05	0.82	1.35	5.71	2.33E+03	0.827
PCB-50/53 22'46/22'56'-TeCB	22.40	C	0.9145	0.9134	-1.5	6.53E+06	0.77	0.91	266	2.49E+03	1.03
PCB-45 22'36-TeCB	23.02		0.9385	0.9385	0	5.79E+06	0.77	0.82	261	2.49E+03	1.14
PCB-51 22'46'-TeCB	23.09		0.9414	0.9416	+0.3	2.02E+06	0.77	0.88	85.3	2.49E+03	1.07
PCB-46 22'36'-TeCB	23.29		0.9499	0.9498	-0.1	1.95E+06	0.79	0.73	98.3	2.49E+03	1.27
PCB-52 22'55'-TeCB	24.55		1.0009	1.0009	0	4.31E+07	0.78	0.89	1,790	2.49E+03	1.05
PCB-73 23'5'6-TeCB	24.67	J EMPC	1.0062	1.0059	-0.4	6.84E+04	1.28	1.18	2.15	2.49E+03	0.794
PCB-43 22'35-TeCB	24.77		1.0100	1.0101	+0.1	1.12E+06	0.76	0.76	54.2	2.49E+03	1.22
PCB-69/49 23'46/22'45'-TeCB	24.99	C	1.0181	1.0189	+1.2	2.61E+07	0.79	1.09	887	2.49E+03	0.858
PCB-48 22'45-TeCB	25.25		1.0296	1.0296	0	7.10E+06	0.81	0.89	295	2.49E+03	1.05
PCB-44/47/65 ...-TeCB	25.44	C	1.0384	1.0374	-1.5	3.77E+07	0.78	0.95	1,470	2.49E+03	0.985
PCB-59/62/75 ...-TeCB	25.73	C	1.0497	1.0493	-0.6	3.58E+06	0.79	1.24	107	2.49E+03	0.752
PCB-42 22'34'-TeCB	25.91		1.0563	1.0564	+0.2	8.09E+06	0.79	0.82	367	2.49E+03	1.14
PCB-41 22'34-TeCB	26.24		1.0700	1.0700	0	2.29E+06	0.75	0.75	113	2.49E+03	1.25
PCB-71/40 23'4'6/22'33'-TeCB	26.34	C	1.0738	1.0739	+0.2	1.61E+07	0.78	0.91	658	2.49E+03	1.03
PCB-64 234'6-TeCB	26.53		1.0819	1.0820	+0.2	2.09E+07	0.79	1.31	589	2.49E+03	0.712
PCB-72 23'55'-TeCB	27.25	J	0.8435	0.8434	-0.2	3.26E+05	0.74	1.27	9.5	5.49E+03	1.62
PCB-68 23'45'-TeCB	27.51		0.8514	0.8514	0	1.15E+06	0.74	1.32	32.2	5.49E+03	1.55
PCB-57 233'5-TeCB	27.88	J	0.8630	0.8629	-0.2	1.63E+05	0.71	1.21	4.99	5.49E+03	1.71
PCB-58 233'5'-TeCB	28.09	J	0.8692	0.8693	+0.2	9.97E+04	0.76	1.22	3.02	5.49E+03	1.69
PCB-67 23'45-TeCB	28.24		0.8741	0.8741	0	9.06E+05	0.84	1.29	25.9	5.49E+03	1.59
PCB-63 234'5-TeCB	28.47		0.8811	0.8811	0	1.43E+06	0.80	1.36	38.9	5.49E+03	1.52
PCB-61/70/74/76 ...-TeCB	28.76	C	0.8901	0.8903	+0.3	6.40E+07	0.79	1.22	1,940	5.49E+03	1.69
PCB-66 23'44'-TeCB	29.04		0.8988	0.8987	-0.2	3.54E+07	0.80	1.17	1,120	5.49E+03	1.76
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	5.49E+03	1.79
PCB-56 233'4'-TeCB	29.62		0.9168	0.9168	0	1.62E+07	0.81	1.16	519	5.49E+03	1.78
PCB-60 2344'-TeCB	29.81		0.9228	0.9228	0	7.56E+06	0.80	1.17	240	5.49E+03	1.76
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	5.49E+03	1.49
PCB-79 33'45'-TeCB	31.47	J	0.9737	0.9741	+0.8	3.14E+05	0.75	1.32	8.84	5.49E+03	1.56
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	5.49E+03	1.85
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.68E+03	0.591
PCB-96 22'366'-PeCB	25.73		1.0134	1.0134	0	3.49E+05	0.65	1.17	15.7	1.68E+03	0.726
PCB-103 22'45'6-PeCB	27.42	J	0.8989	0.8988	-0.2	1.59E+05	0.62	0.95	7.16	3.20E+03	1.41
PCB-94 22'356'-PeCB	27.61	J	0.9051	0.9051	0	1.55E+05	0.55	0.80	8.32	3.20E+03	1.68

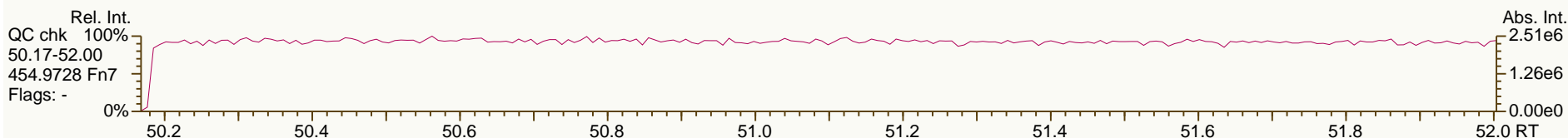
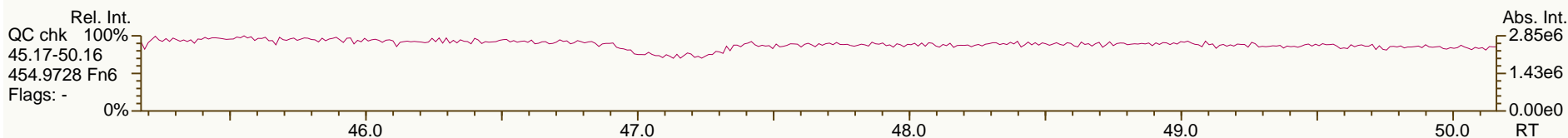
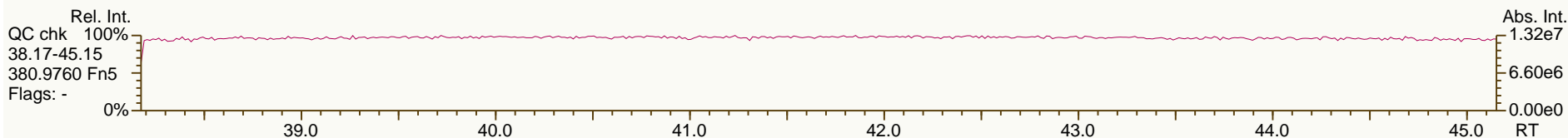
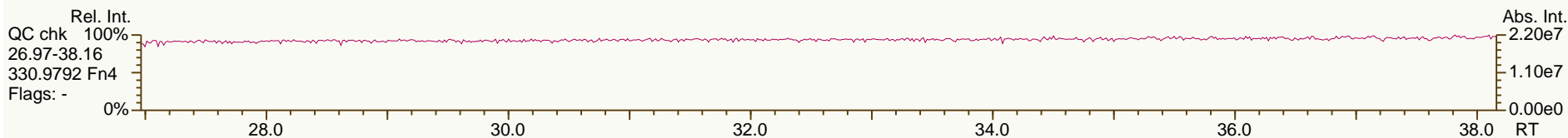
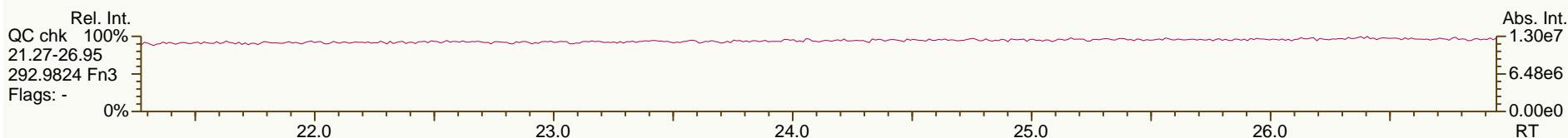
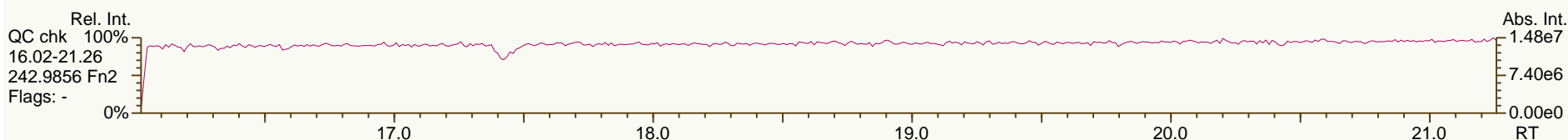
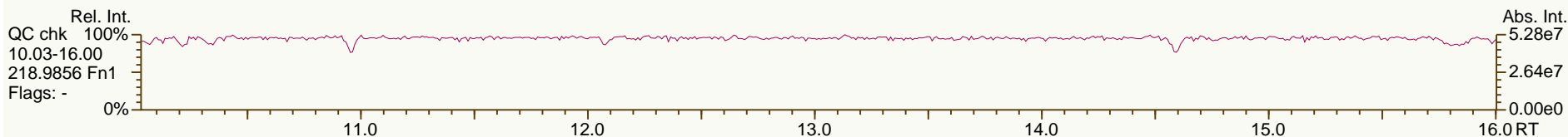
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PCB-95 22'35'6-PeCB	27.99		0.9176	0.9175	-0.2	1.16E+07	0.63	0.87	570	3.20E+03	1.55
PCB-100/93 22'44'6/22'356-PeCB	28.20	J C	0.9246	0.9243	-0.5	2.47E+05	0.59	0.88	12.1	3.20E+03	1.54
PCB-102 22'456'-PeCB	28.32		0.9282	0.9282	0	9.65E+05	0.62	0.88	46.9	3.20E+03	1.53
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	3.20E+03	1.58
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	3.20E+03	1.59
PCB-91 22'34'6-PeCB	28.75		0.9425	0.9424	-0.2	2.97E+06	0.61	0.86	148	3.20E+03	1.57
PCB-84 22'33'6-PeCB	28.95		0.9487	0.9487	0	4.09E+06	0.61	0.72	244	3.20E+03	1.87
PCB-89 22'346'-PeCB	29.36		0.9624	0.9624	0	4.34E+05	0.66	0.78	23.8	3.20E+03	1.73
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	3.20E+03	1.1
PCB-92 22'355'-PeCB	30.02		0.9841	0.9841	0	2.24E+06	0.63	0.84	114	3.20E+03	1.59
PCB-113/90/101 ...-PeCB	30.53	C	0.9999	1.0007	+1.5	1.46E+07	0.62	0.97	642	3.20E+03	1.38
PCB-83 22'33'5-PeCB	30.94		1.0142	1.0140	-0.4	6.82E+05	0.62	0.66	44.2	3.20E+03	2.04
PCB-99 22'44'5-PeCB	31.04		1.0173	1.0174	+0.2	8.44E+06	0.61	0.98	367	3.20E+03	1.37
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	3.20E+03	1.16
PCB-108/119/86/97/125...-PeCB	31.51	C	1.0320	1.0329	+1.7	1.19E+07	0.61	0.98	523	3.20E+03	1.38
PCB-117 234'56-PeCB	32.01		1.0495	1.0491	-0.8	3.52E+05	0.57	1.09	13.8	3.20E+03	1.24
PCB-116/85 23456/22'344'-PeCB	32.09	C	1.0525	1.0519	-1.2	3.78E+06	0.63	0.97	167	3.20E+03	1.39
PCB-110 233'4'6-PeCB	32.23		1.0563	1.0564	+0.2	2.03E+07	0.62	1.10	792	3.20E+03	1.23
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	3.20E+03	1.2
PCB-82 22'33'4-PeCB	32.51		1.0656	1.0656	0	2.04E+06	0.60	0.69	125	3.20E+03	1.94
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	3.20E+03	1.12
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	3.20E+03	1.1
PCB-107/124 ...-PeCB	34.19	C	0.9915	0.9916	+0.2	5.90E+05	0.57	1.10	23	3.20E+03	1.22
PCB-109 233'46-PeCB	34.40		0.9976	0.9977	+0.2	1.24E+06	0.61	1.22	43.3	3.20E+03	1.1
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	3.20E+03	1.24
PCB-122 233'4'5'-PeCB	35.08		1.0091	1.0091	0	2.71E+05	0.66	1.01	11.4	3.20E+03	1.35
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	3.20E+03	1.3
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.41E+03	0.437
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.41E+03	0.507
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.41E+03	0.492
PCB-136 22'33'66'-HxCB	30.97		1.0207	1.0207	0	1.09E+06	1.21	1.02	42.9	1.41E+03	0.538
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.41E+03	0.531
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.41E+03	0.769
PCB-151/135 ...-HxCB	33.03	C	1.0886	1.0886	0	1.76E+06	1.23	1.06	96.8	1.41E+03	0.815
PCB-154 22'44'56'-HxCB	33.24	J EMPC	1.0955	1.0956	+0.2	1.00E+05	1.00	1.26	4.67	1.41E+03	0.688
PCB-144 22'345'6-HxCB	33.51		1.1042	1.1043	+0.2	2.51E+05	1.28	1.10	13.3	1.41E+03	0.783
PCB-147/149 ...-HxCB	33.81	C	1.1142	1.1141	-0.2	4.66E+06	1.28	1.10	247	1.41E+03	0.784
PCB-134 22'33'56-HxCB	33.99		1.1199	1.1201	+0.4	2.98E+05	1.29	0.81	21.4	1.41E+03	1.06
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.41E+03	0.79
PCB-139/140 ...-HxCB	34.32	J EMPC C	1.1313	1.1312	-0.2	1.15E+05	1.48	1.11	6.05	1.41E+03	0.778
PCB-131 22'33'46-HxCB	34.50	J	1.1370	1.1372	+0.4	8.32E+04	1.22	0.94	5.15	1.41E+03	0.915
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.41E+03	0.937
PCB-132 22'33'46'-HxCB	34.88		1.1495	1.1496	+0.2	1.84E+06	1.27	0.97	111	1.41E+03	0.889
PCB-133 22'33'55'-HxCB	35.29	J	1.1628	1.1630	+0.4	9.25E+04	1.14	1.04	5.21	1.41E+03	0.833
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.41E+03	0.654
PCB-146 22'34'55'-HxCB	35.84		0.9582	0.9581	-0.2	9.26E+05	1.20	1.16	46.7	1.41E+03	0.746
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.41E+03	0.607
PCB-153/168 ...-HxCB	36.36	C	0.9728	0.9722	-1.3	5.55E+06	1.31	1.38	234	1.41E+03	0.624

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.53		0.9767	0.9766	-0.2	9.38E+05	1.27	1.01	54.4	1.41E+03	0.858
PCB-130 22'33'45'-HxCB	36.88		0.9859	0.9859	0	3.80E+05	1.27	0.91	24.4	1.41E+03	0.95
PCB-137 22'344'5'-HxCB	37.07		0.9912	0.9910	-0.4	2.45E+05	1.18	1.15	12.5	1.41E+03	0.752
PCB-164 233'4'5'6'-HxCB	37.15		0.9934	0.9933	-0.2	5.66E+05	1.40	1.37	24.1	1.41E+03	0.63
PCB-163/138/129 ...-HxCB	37.43	C	1.0011	1.0007	-0.9	6.44E+06	1.25	1.12	335	1.41E+03	0.768
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.41E+03	0.682
PCB-158 233'44'6'-HxCB	37.77		1.0096	1.0096	0	7.94E+05	1.23	1.49	31.1	1.41E+03	0.58
PCB-128/166 ...-HxCB	38.51	C	0.9640	0.9643	+0.7	1.01E+06	1.19	0.89	52.7	2.19E+03	1.17
PCB-159 233'455'-HxCB	39.29	J EMPC	0.9843	0.9838	-1.2	6.78E+04	1.46	1.07	2.91	2.19E+03	0.964
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	2.19E+03	0.968
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	9.79E+02	0.455
PCB-179 22'33'566'-HpCB	35.52		1.0086	1.0086	0	4.87E+05	1.16	1.09	26.2	9.79E+02	0.532
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	9.79E+02	0.554
PCB-176 22'33'466'-HpCB	36.28	J	1.0300	1.0300	0	1.28E+05	0.97	1.15	6.5	9.79E+02	0.501
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	9.79E+02	0.534
PCB-178 22'33'55'6'-HpCB	37.80		1.0733	1.0733	0	1.67E+05	0.97	0.75	12.9	9.79E+02	0.765
PCB-175 22'33'45'6'-HpCB	38.35	J	1.0888	1.0889	+0.2	5.67E+04	1.16	1.09	3.36	1.62E+03	1.01
PCB-187 22'34'55'6'-HpCB	38.58		1.0953	1.0953	0	1.32E+06	1.05	1.17	73.1	1.62E+03	0.944
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.62E+03	0.921
PCB-183 22'344'5'6'-HpCB	39.10		1.1101	1.1102	+0.2	6.09E+05	1.02	1.23	32.1	1.62E+03	0.897
PCB-185 22'3455'6'-HpCB	39.18	J	1.1125	1.1126	+0.2	8.53E+04	0.99	1.05	5.26	1.62E+03	1.05
PCB-174 22'33'456'-HpCB	39.29		1.1156	1.1157	+0.2	8.39E+05	1.07	1.01	53.9	1.62E+03	1.09
PCB-177 22'33'45'6'-HpCB	39.67		1.1263	1.1264	+0.2	5.55E+05	1.10	0.96	37.5	1.62E+03	1.15
PCB-181 22'344'56'-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.62E+03	1.02
PCB-171/173 ...-HpCB	40.21	J C	1.1414	1.1416	+0.5	2.91E+05	1.00	0.95	20	1.62E+03	1.17
PCB-172 22'33'455'-HpCB	41.55	J	0.9079	0.9080	+0.2	1.53E+05	1.16	0.99	10	1.62E+03	1.11
PCB-192 233'455'6'-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.62E+03	0.857
PCB-180/193 ...-HpCB	42.10	C	0.9193	0.9200	+1.8	2.06E+06	1.04	1.23	109	1.62E+03	0.894
PCB-191 233'44'5'6'-HpCB	42.40	J EMPC	0.9266	0.9265	-0.3	3.63E+04	1.47	1.35	1.74	1.62E+03	0.815
PCB-170 22'33'44'5'-HpCB	43.17		0.9434	0.9434	0	7.56E+05	1.10	1.12	54	1.62E+03	1.29
PCB-190 233'44'56'-HpCB	43.62		0.9533	0.9532	-0.3	2.24E+05	1.00	1.54	11.6	1.62E+03	0.934
PCB-202 22'33'55'66'-OoCB	39.77	J	1.0005	1.0005	0	1.57E+05	0.93	1.05	9.14	1.18E+03	0.721
PCB-201 22'33'45'66'-OoCB	40.56	J	1.0203	1.0204	+0.2	8.72E+04	0.84	1.12	4.8	1.18E+03	0.68
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.18E+03	0.732
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.18E+03	0.697
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.18E+03	0.7
PCB-198/199 ...-OoCB	43.76	C	1.1002	1.1007	+1.3	3.39E+05	0.86	0.72	28.9	1.18E+03	1.05
PCB-196 22'33'44'56'-OoCB	44.31		1.1147	1.1146	-0.3	1.61E+05	0.95	0.76	13	1.18E+03	0.995
PCB-203 22'344'55'6'-OoCB	44.48	EMPC	1.1189	1.1189	0	1.85E+05	0.74	0.78	14.6	1.18E+03	0.974
PCB-195 22'33'44'56'-OoCB	45.60		0.9516	0.9515	-0.3	1.01E+05	0.92	0.75	10.2	1.75E+03	1.87
PCB-194 22'33'44'55'-OoCB	47.55		0.9921	0.9921	0	2.63E+05	0.90	0.81	24.5	1.75E+03	1.72
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.75E+03	1.32
PCB-208 22'33'455'66'-NoCB	45.40		1.0005	1.0004	-0.3	3.44E+05	0.82	1.12	20.5	3.04E+03	1.93
PCB-207 22'33'44'566'-NoCB	46.19		1.0178	1.0178	0	3.26E+05	0.77	1.14	19.2	3.04E+03	1.9
PCB-206 22'33'44'55'6'-NoCB	49.41		1.0004	1.0005	+0.3	2.57E+05	0.80	1.11	24.9	3.04E+03	3.14

SGS-AP ID: A6504\_11892\_PCB\_002  
Instr: AutoSpec-Premier MM7

Sample ID: PB031.1-1SWMID-140313-N (TOTAL)  
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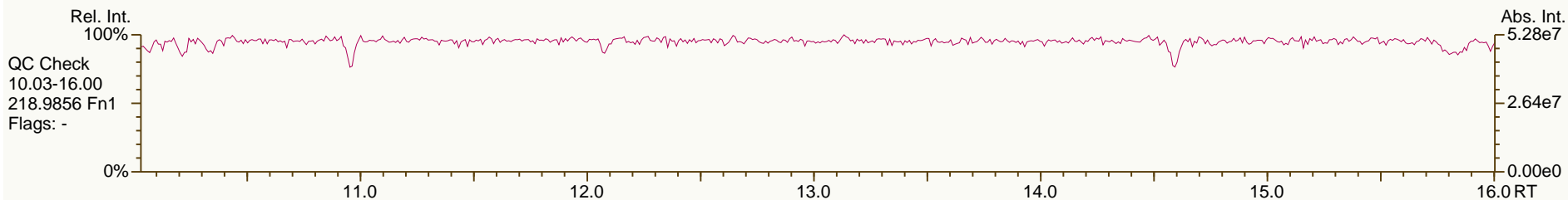
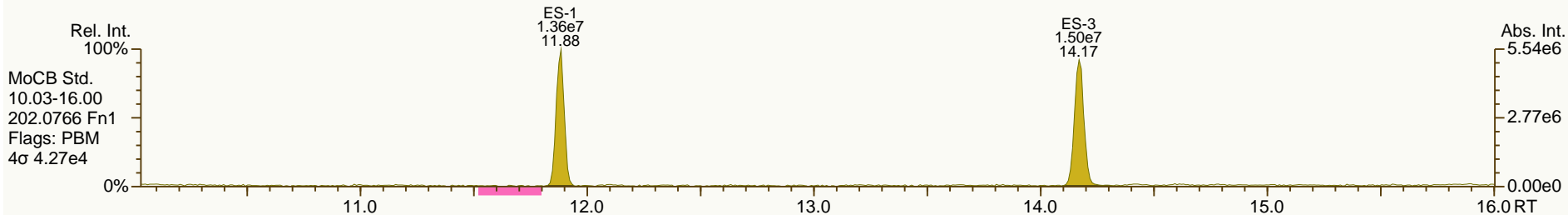
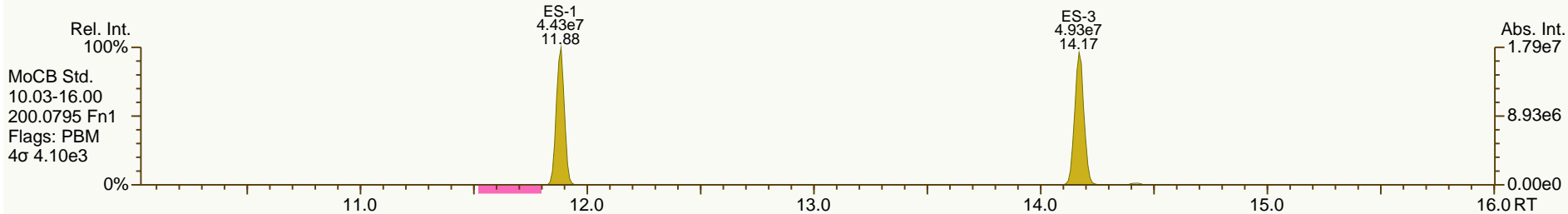
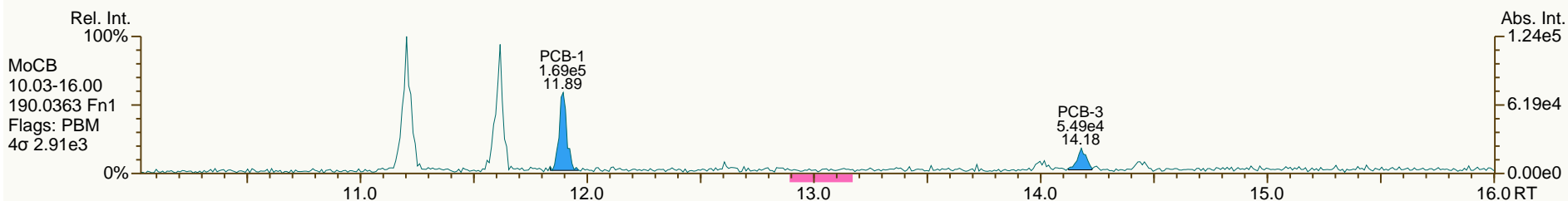
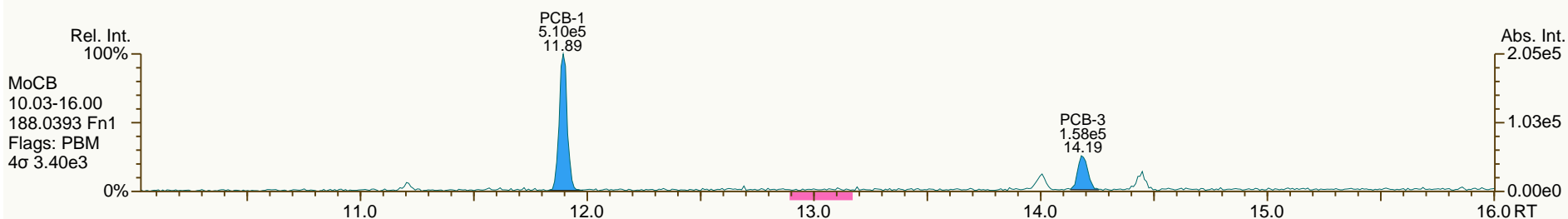




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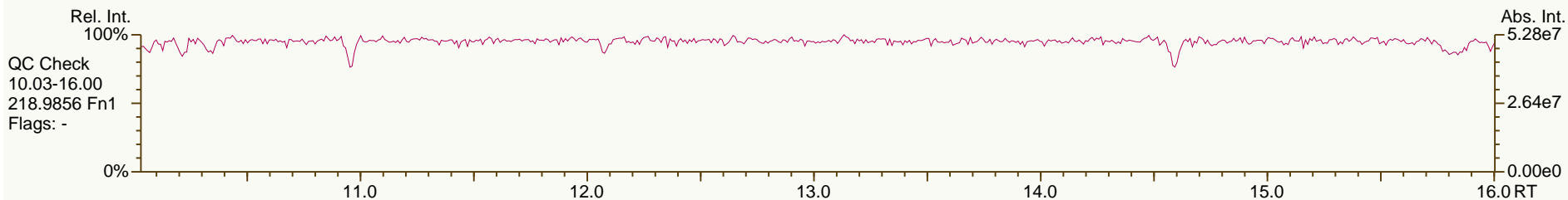
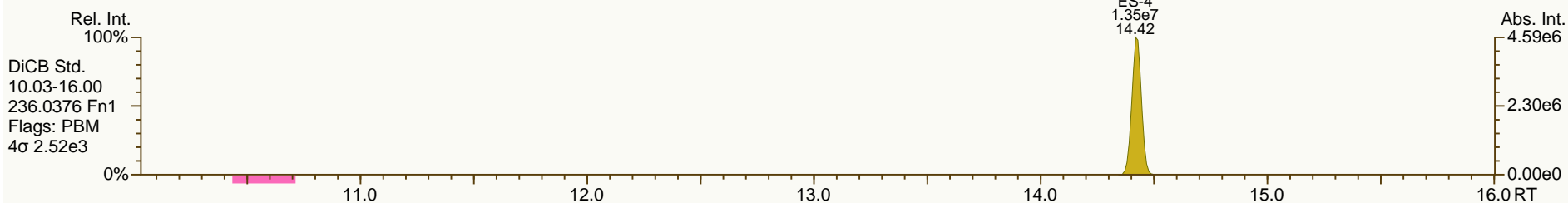
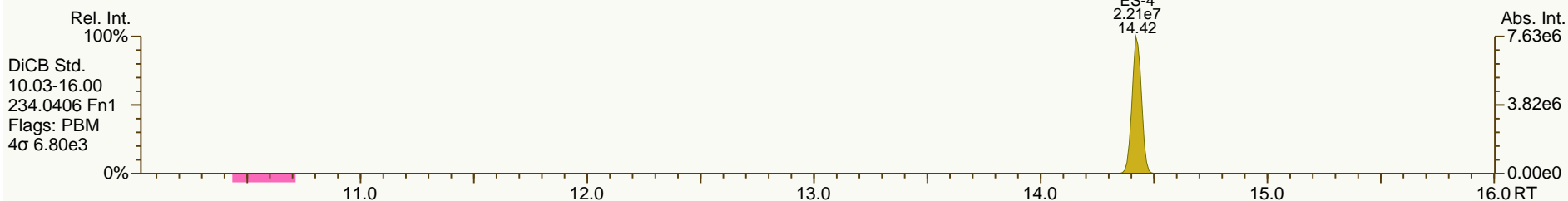
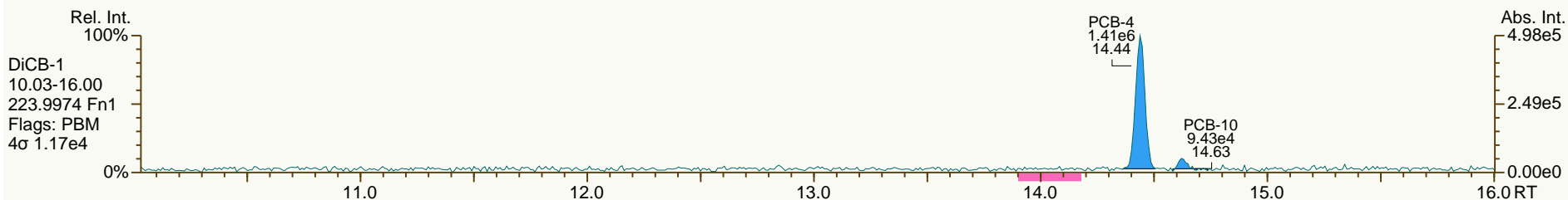
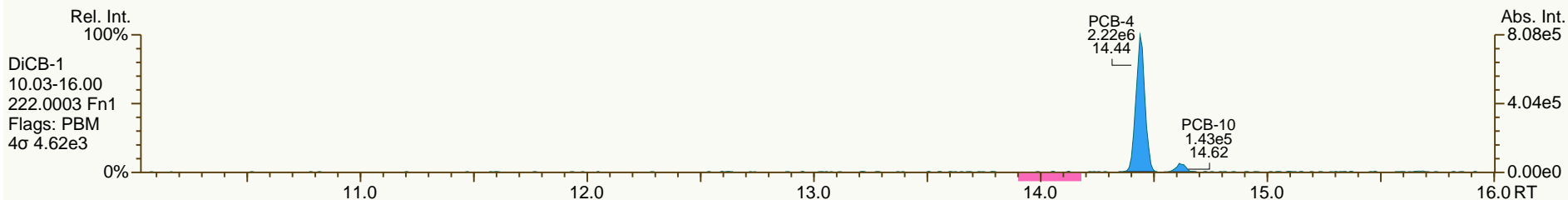
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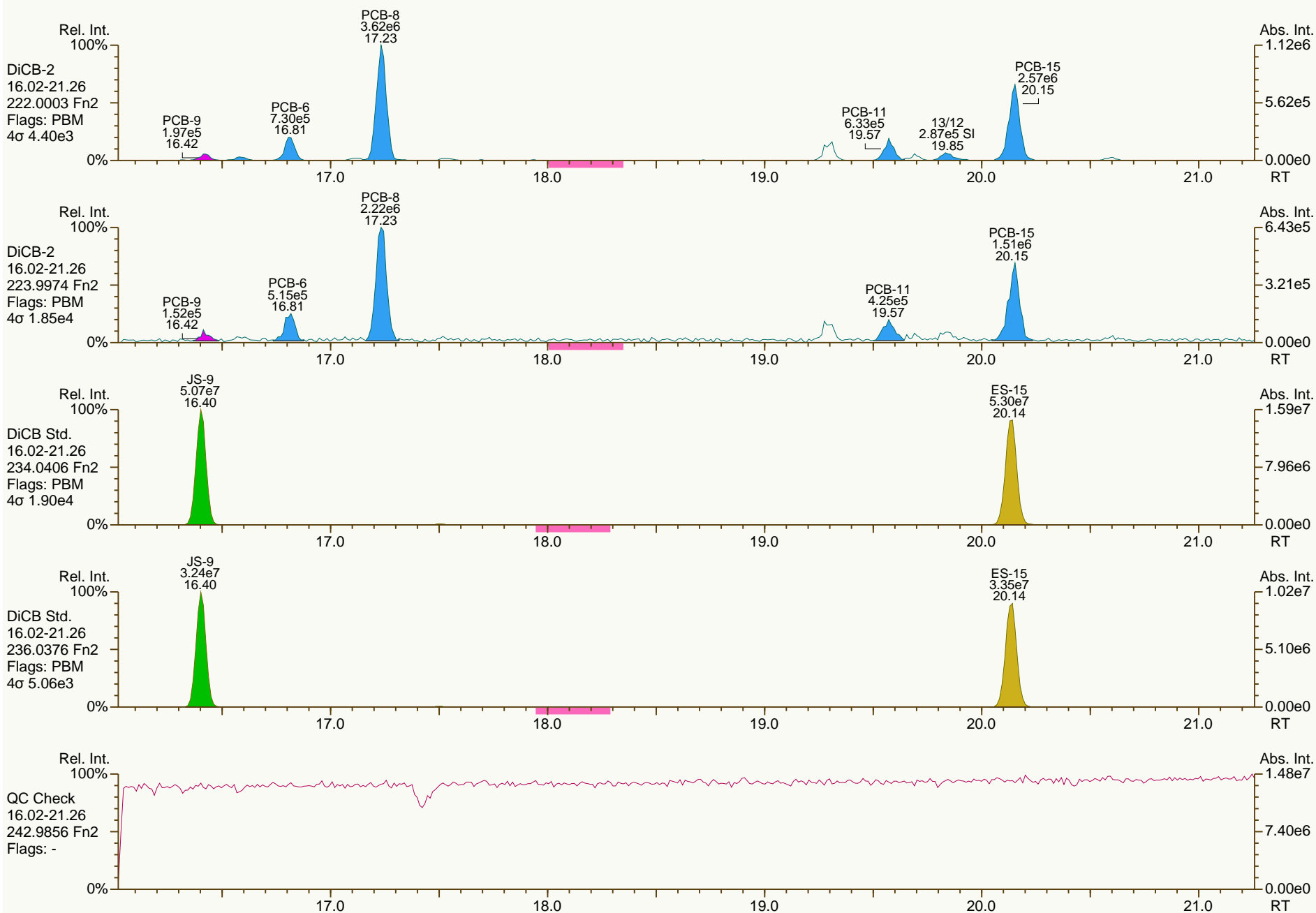
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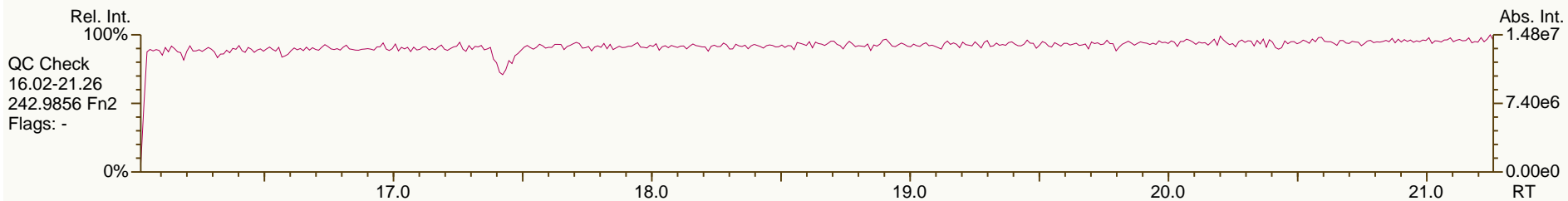
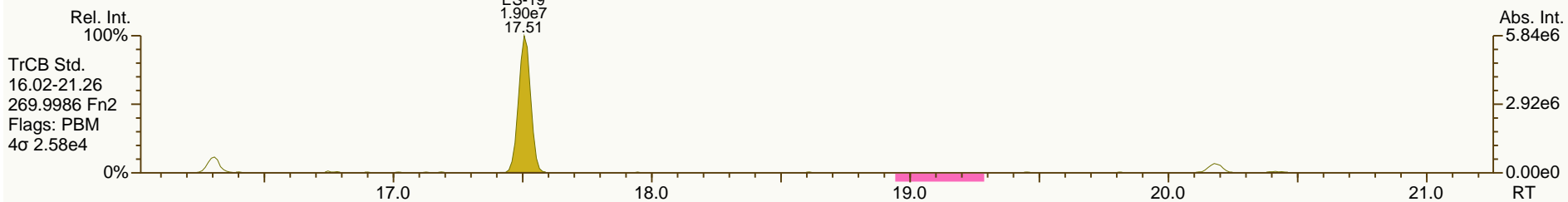
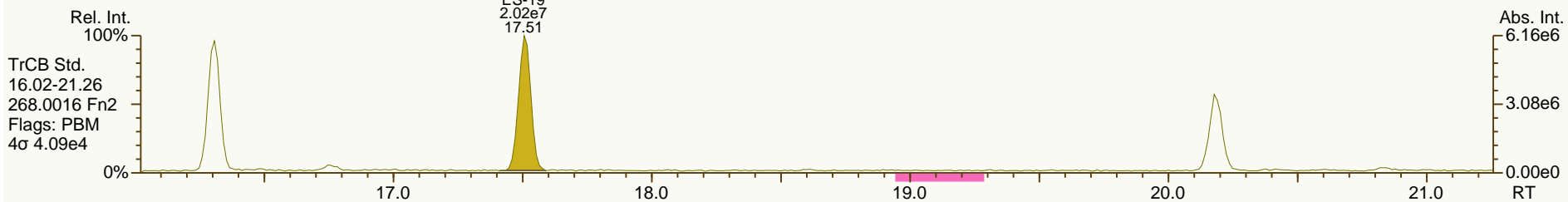
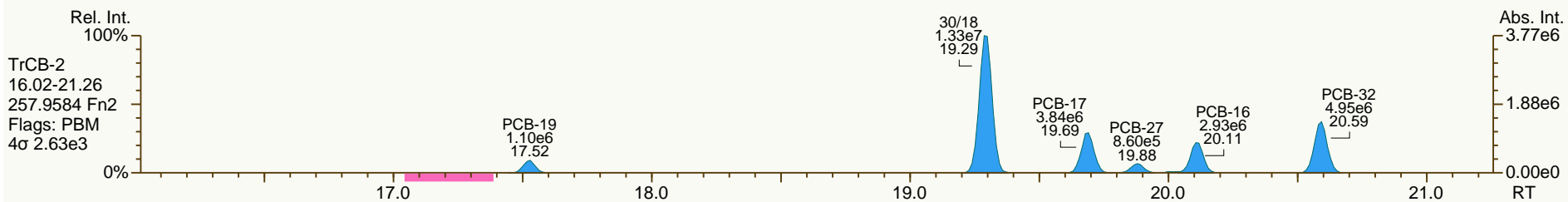
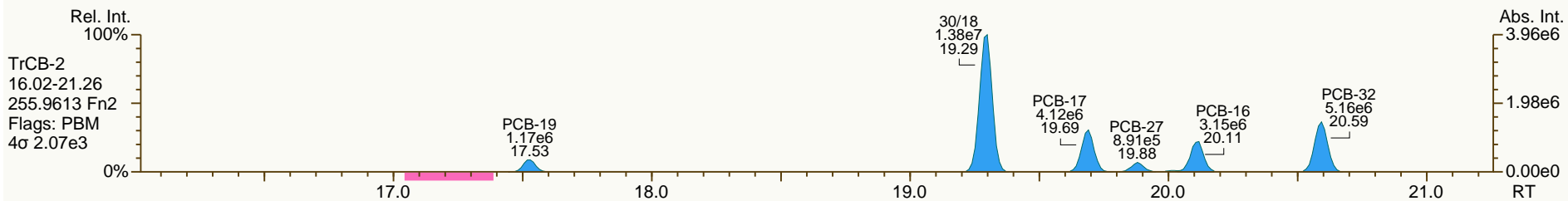
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SGS-AP ID: A6504\_11892\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB031.1-1SWMID-140313-N (TOTAL)  
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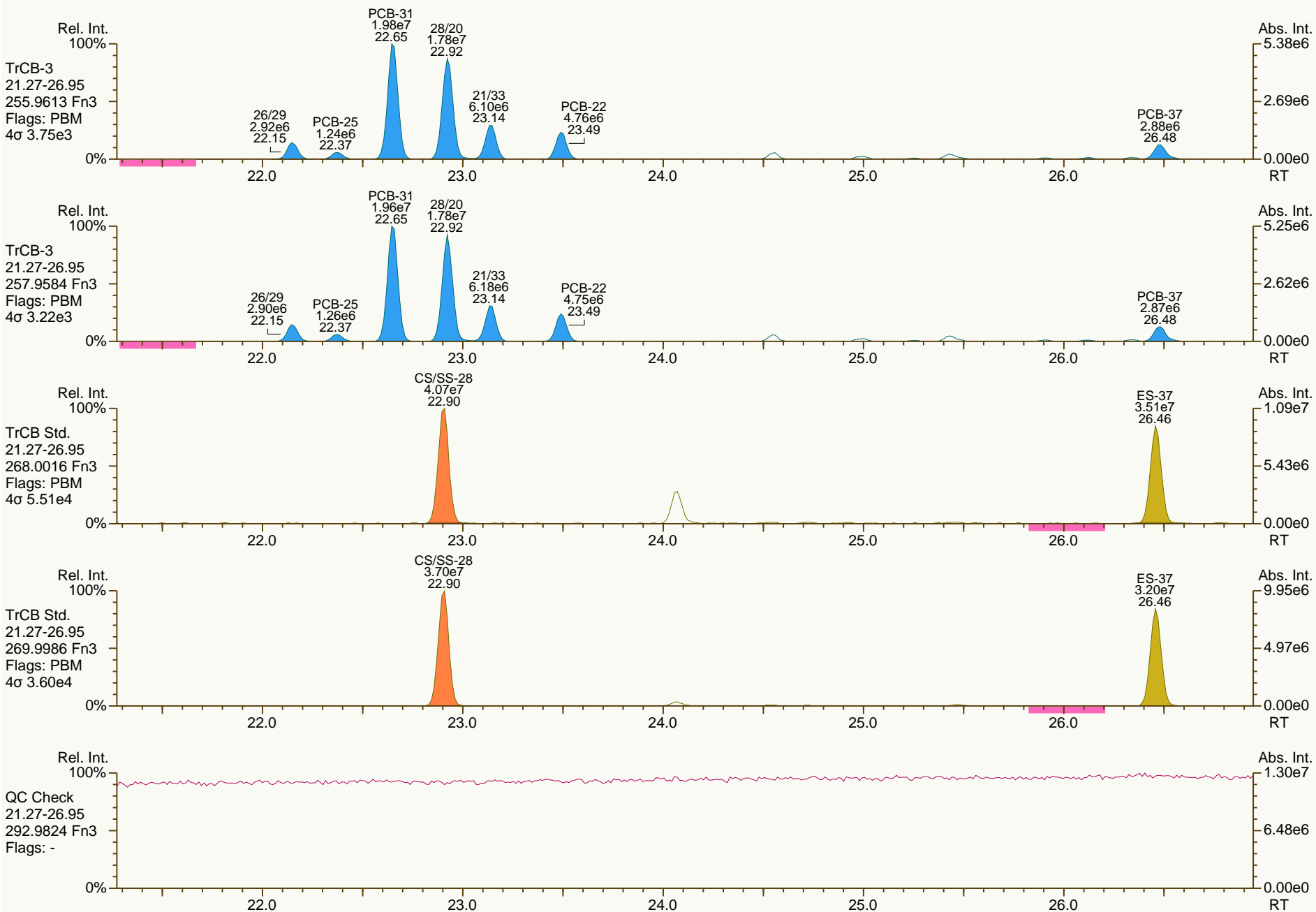
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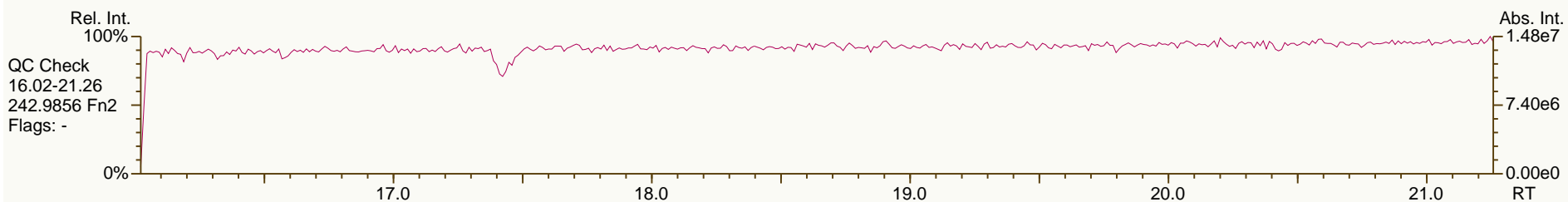
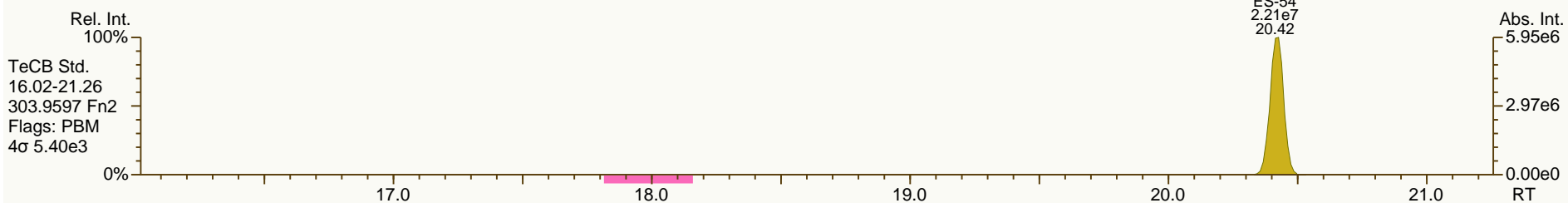
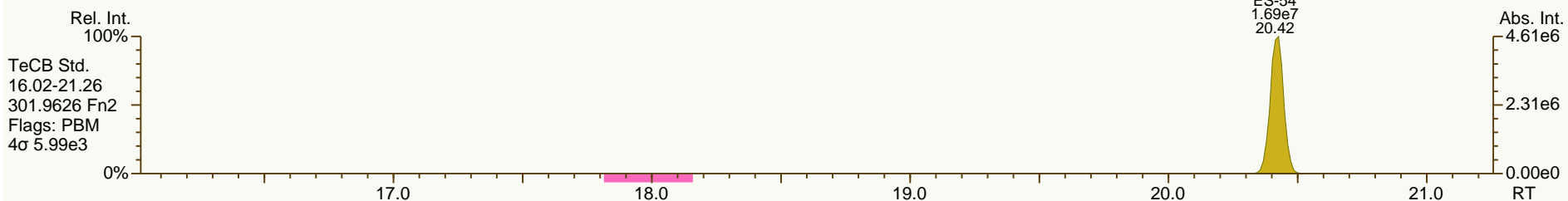
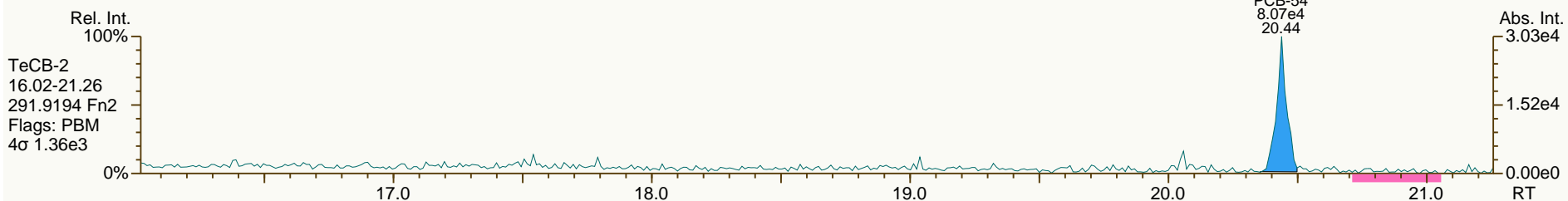
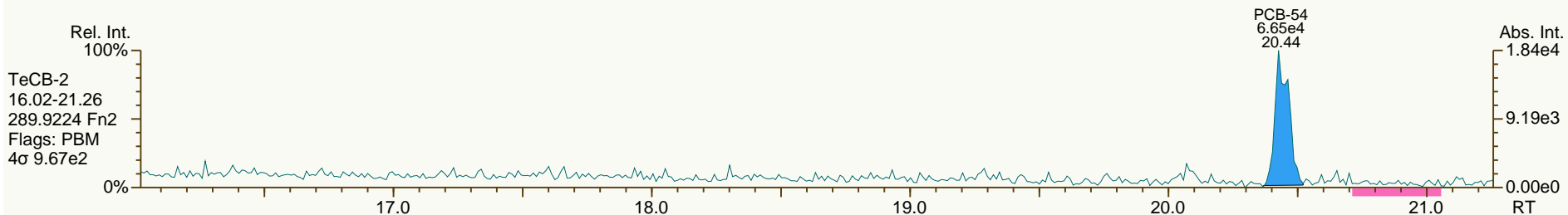
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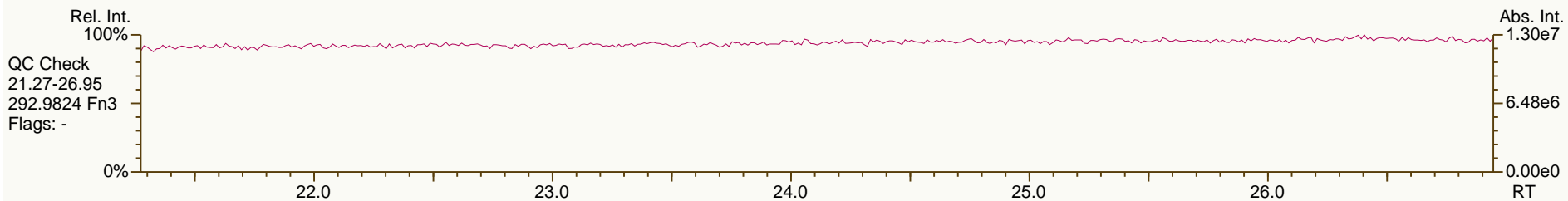
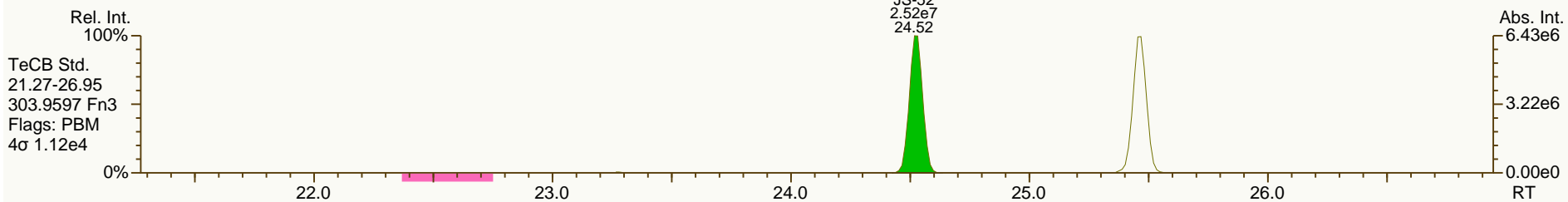
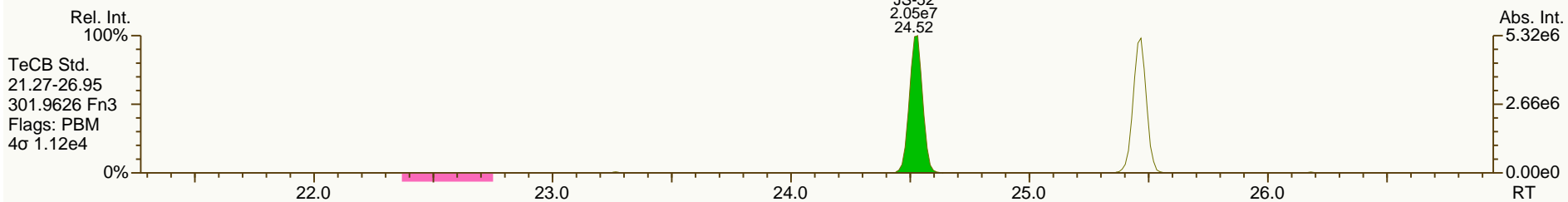
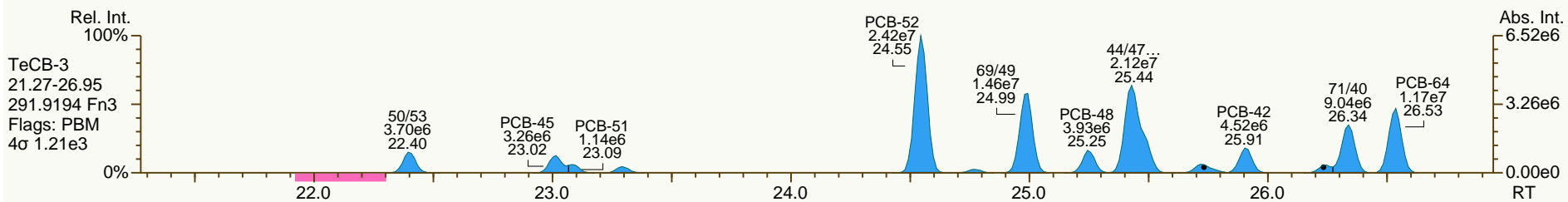
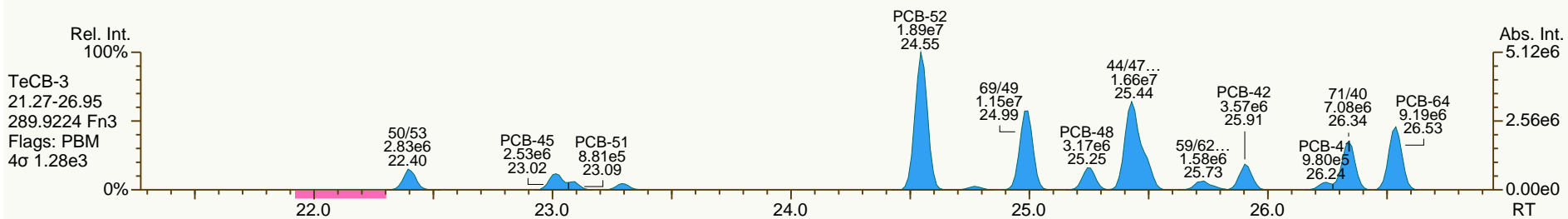
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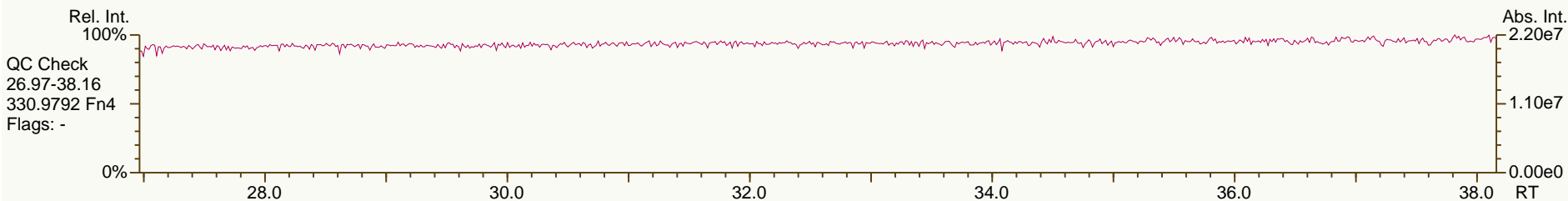
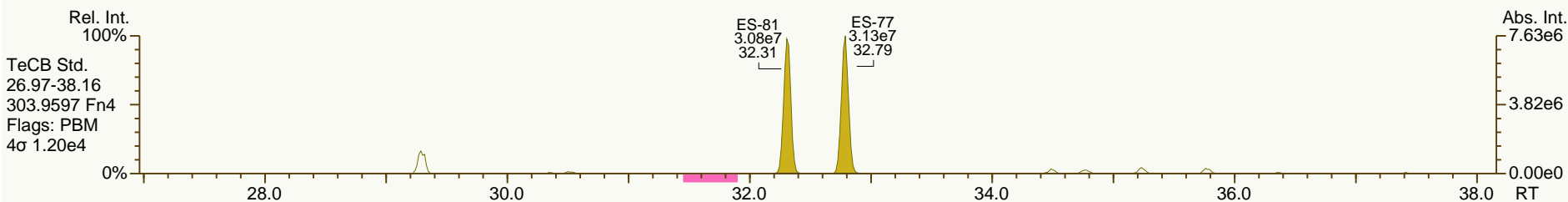
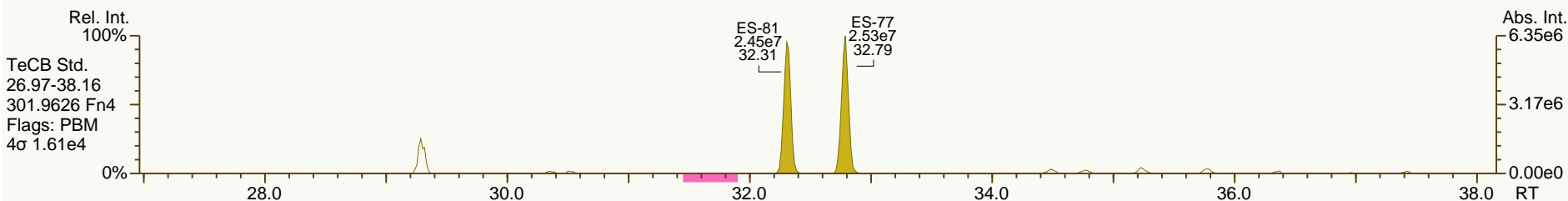
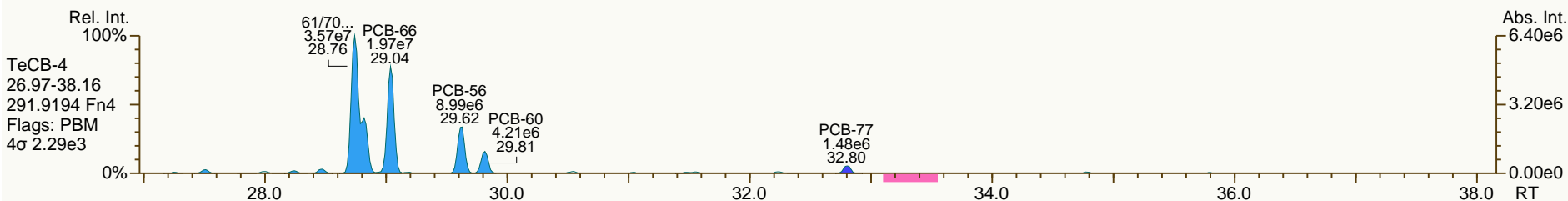
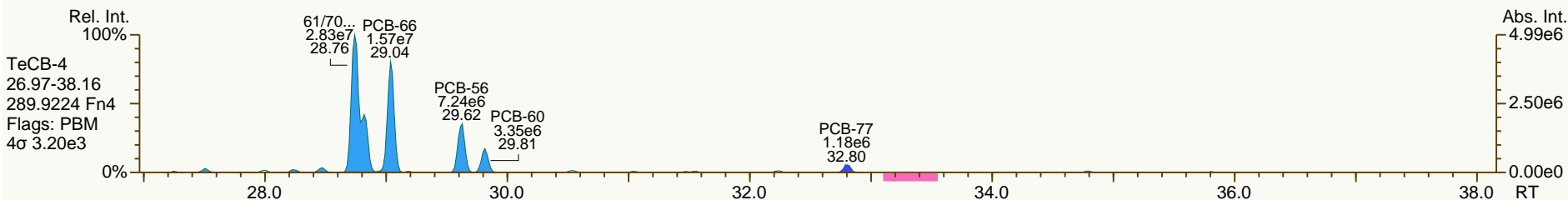
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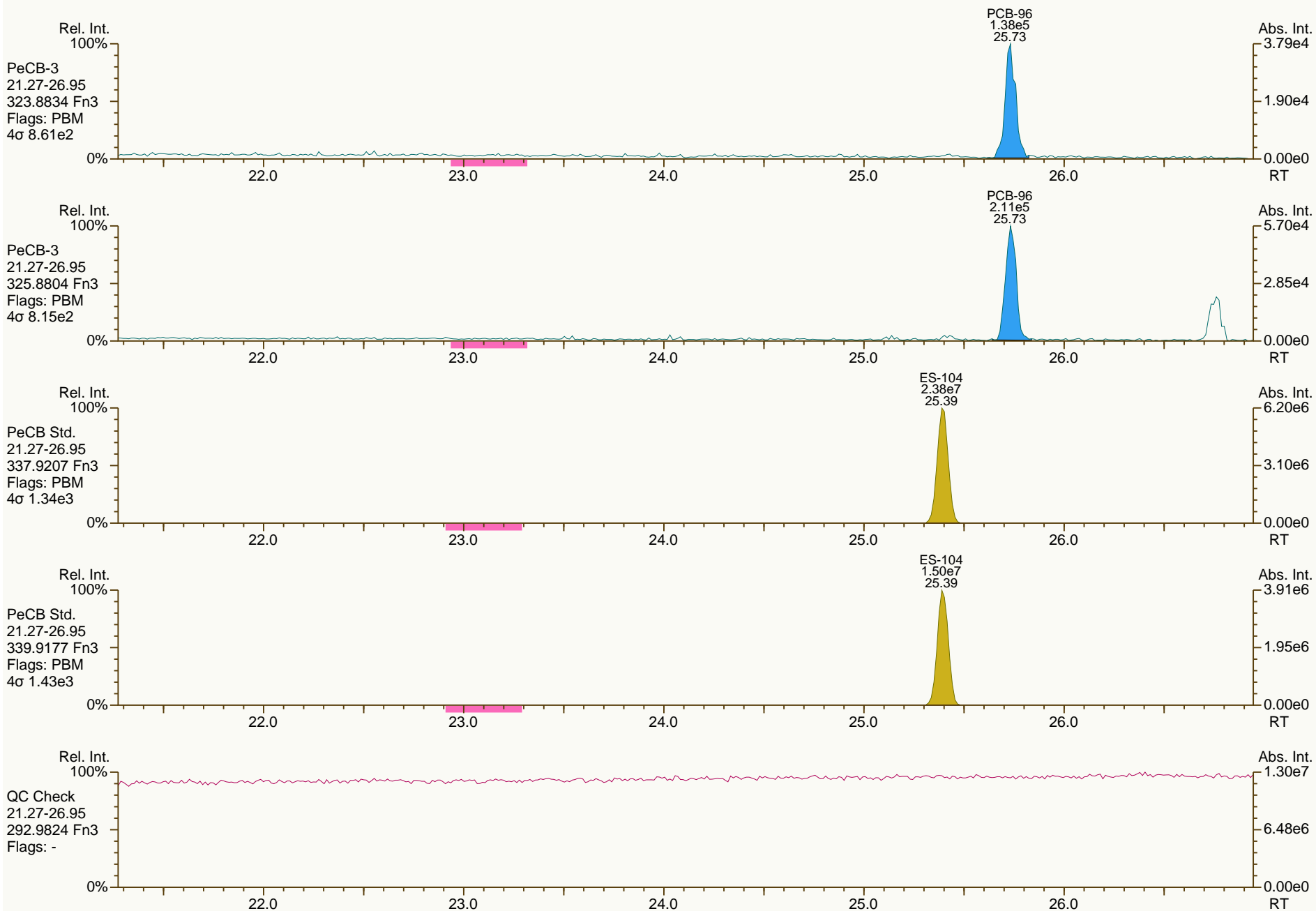




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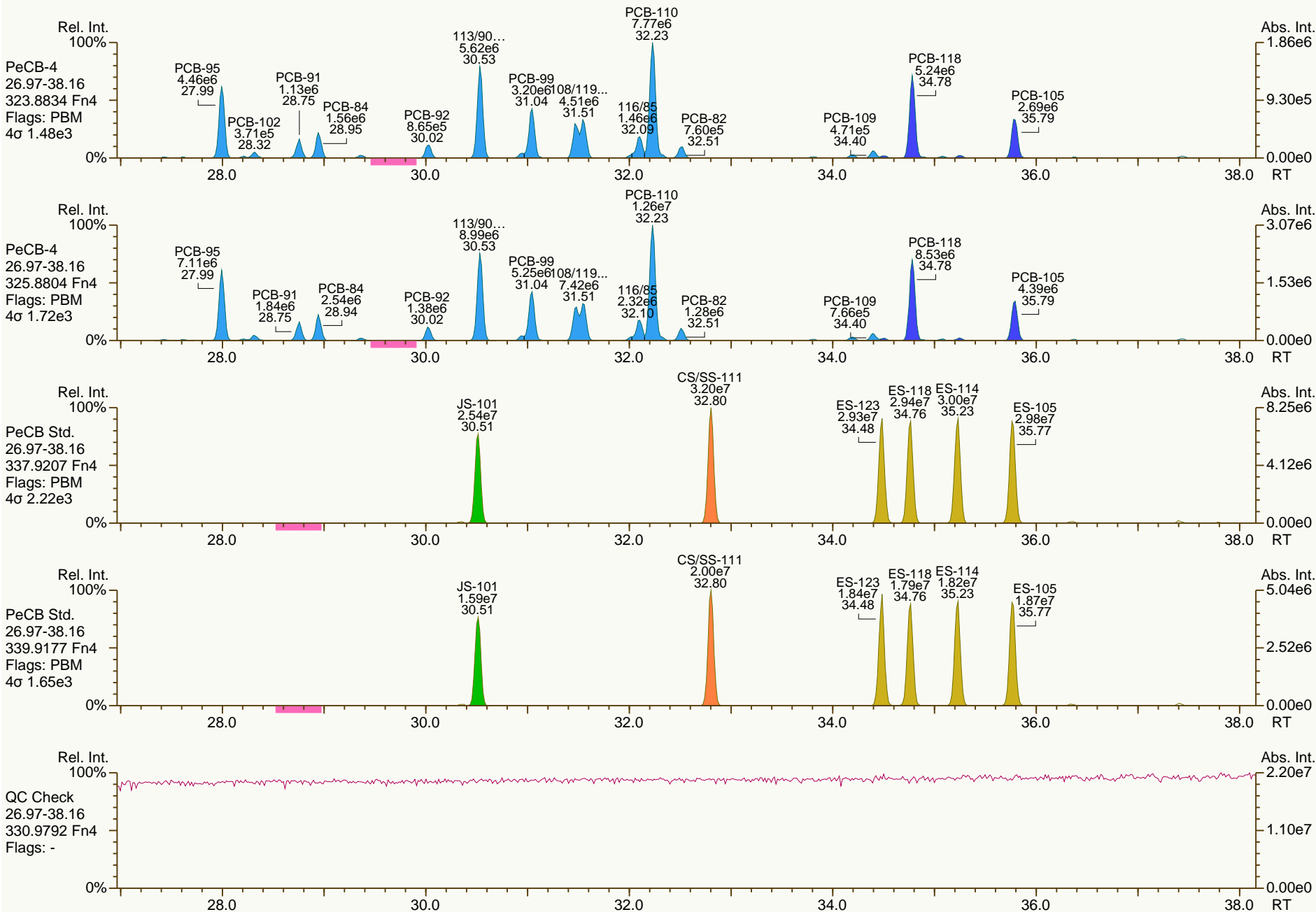
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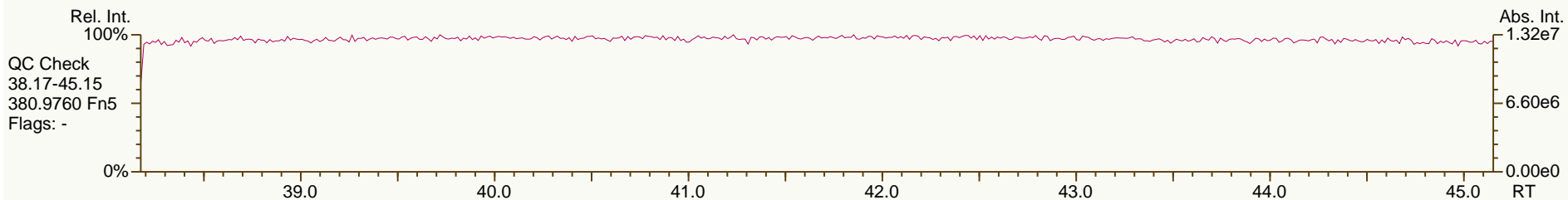
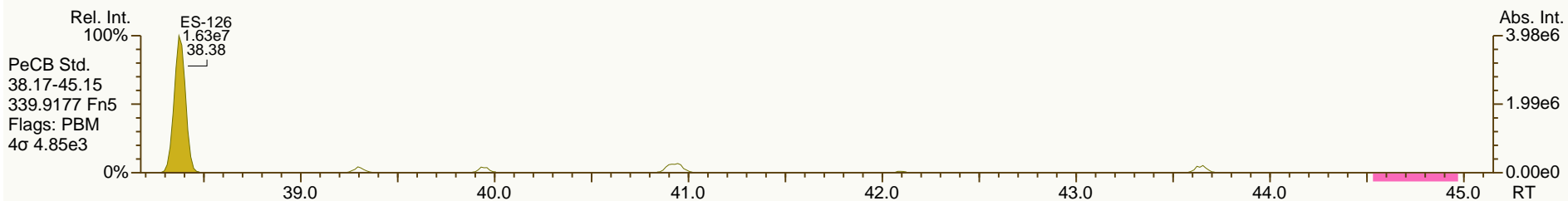
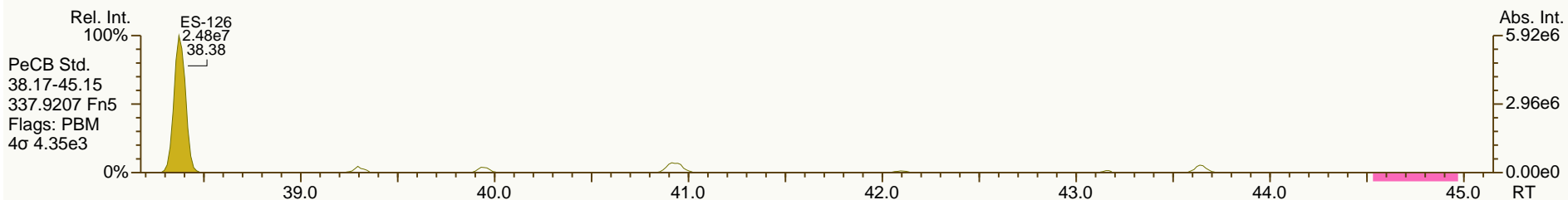
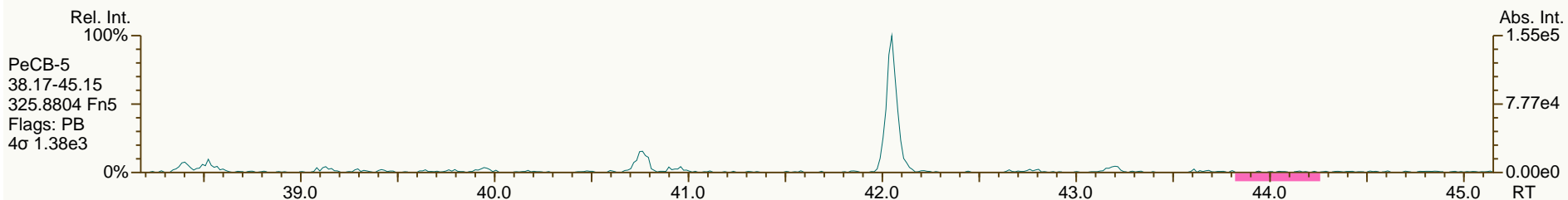
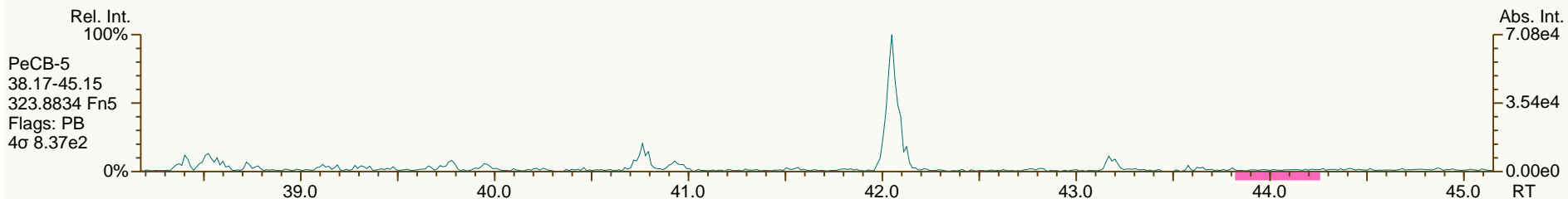
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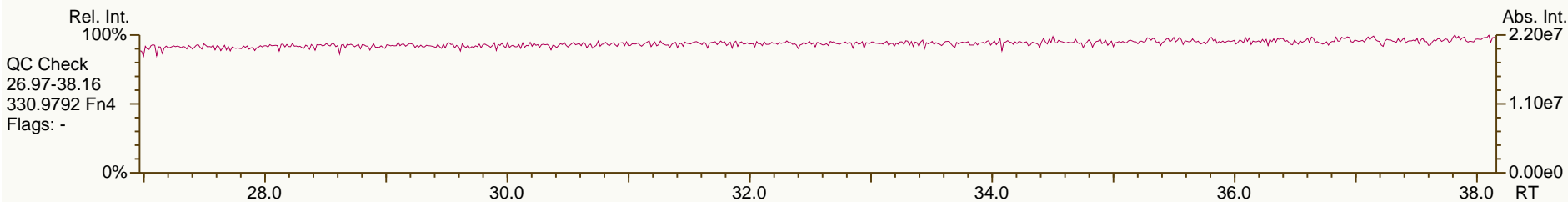
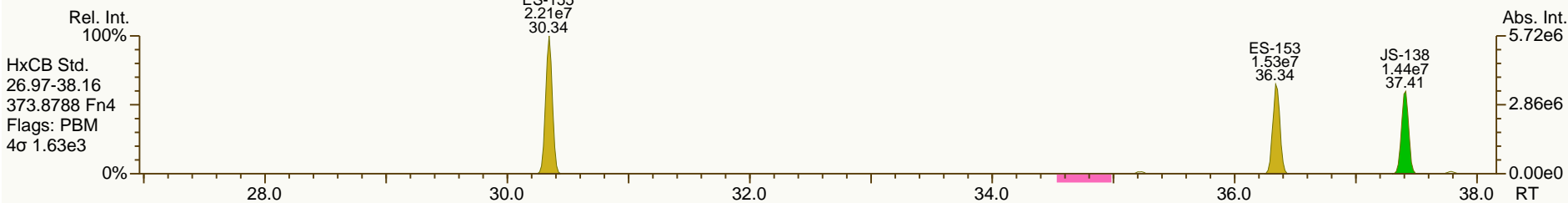
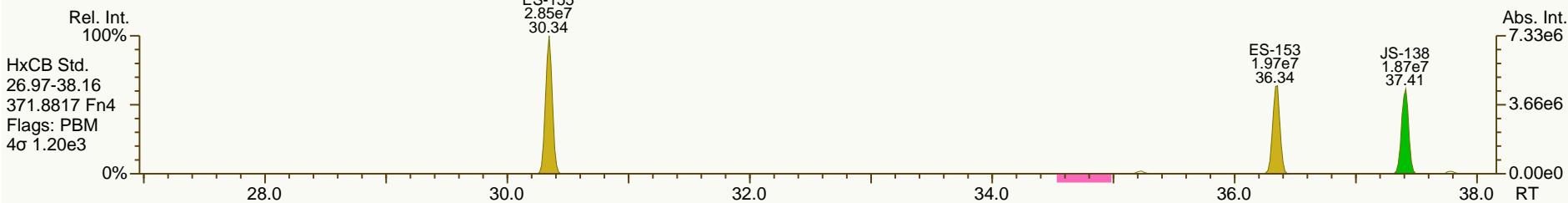
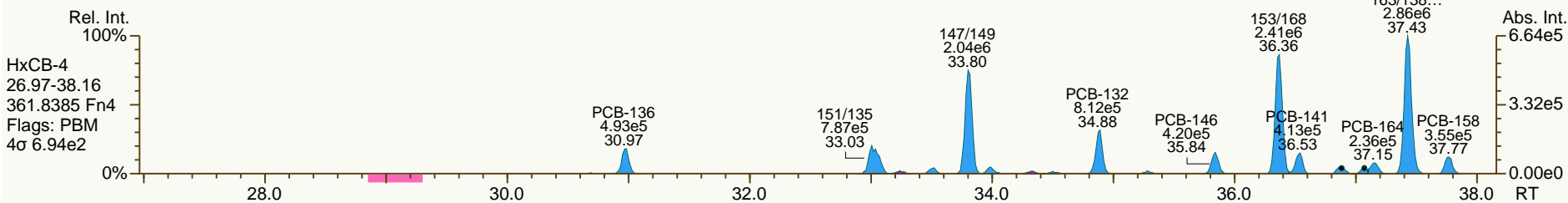
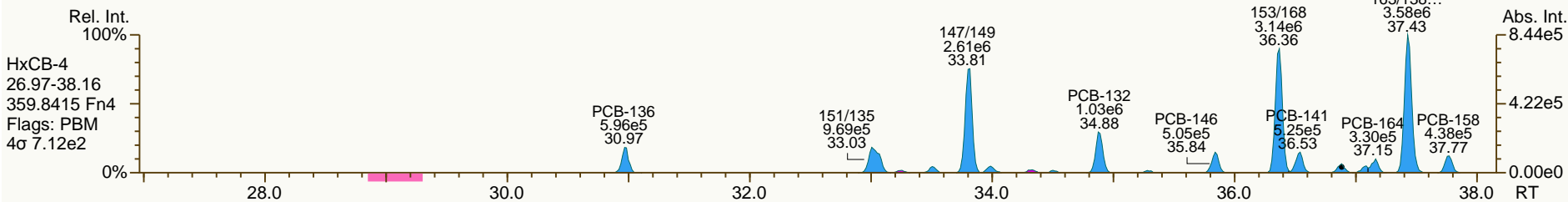
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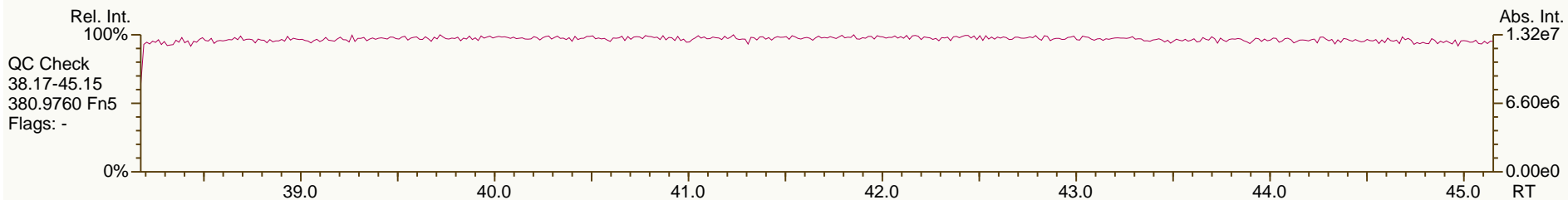
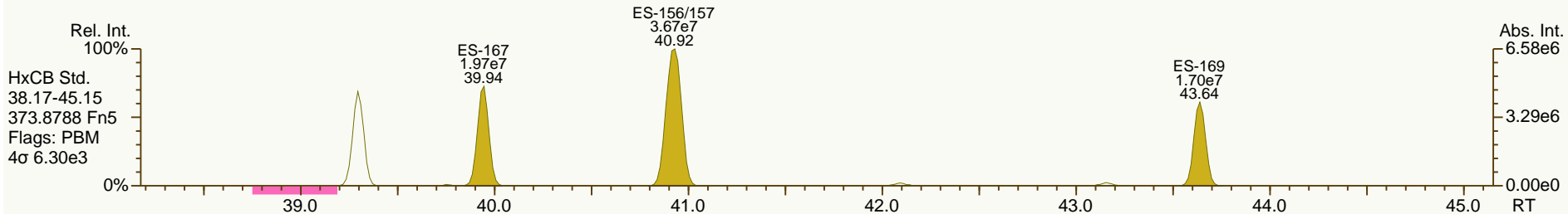
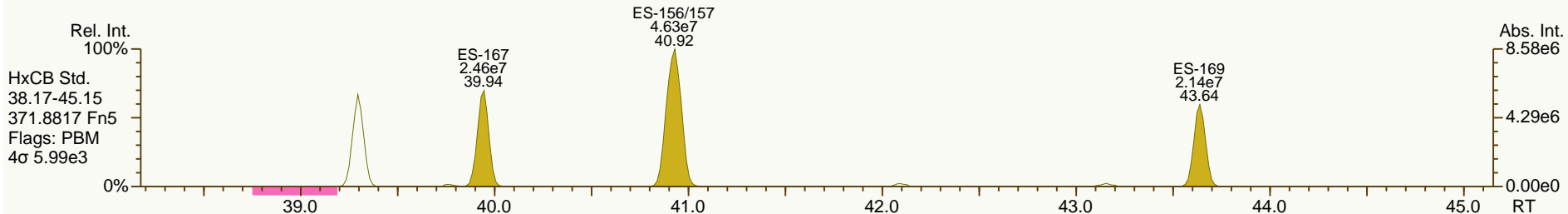
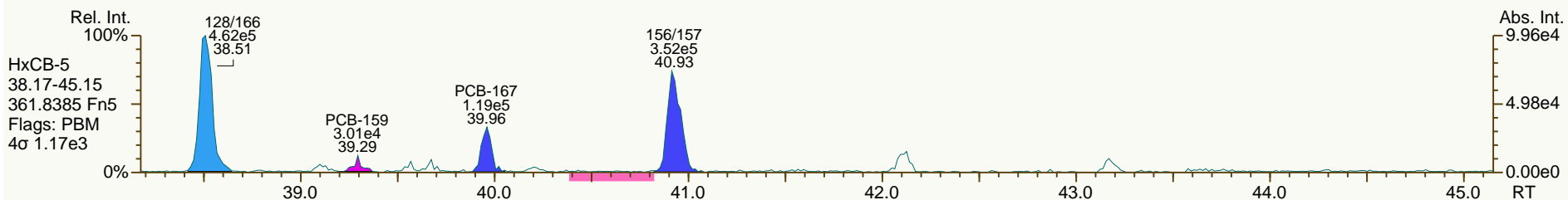
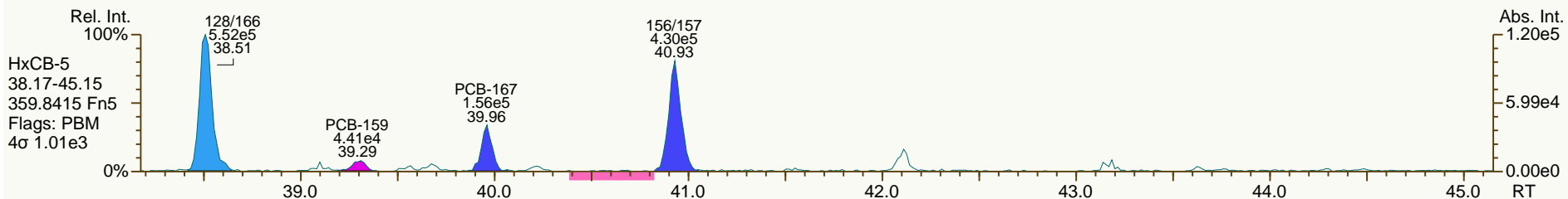
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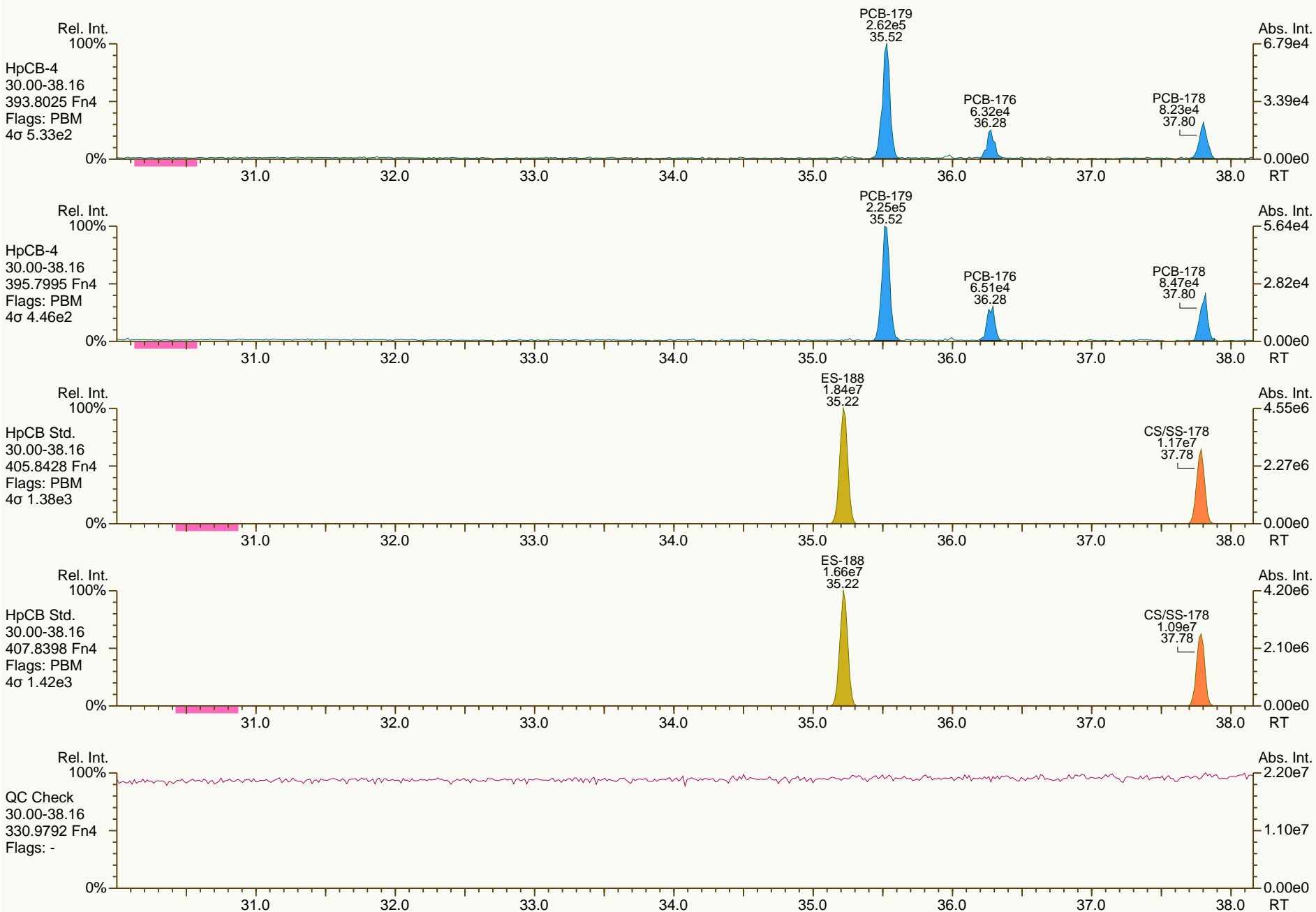
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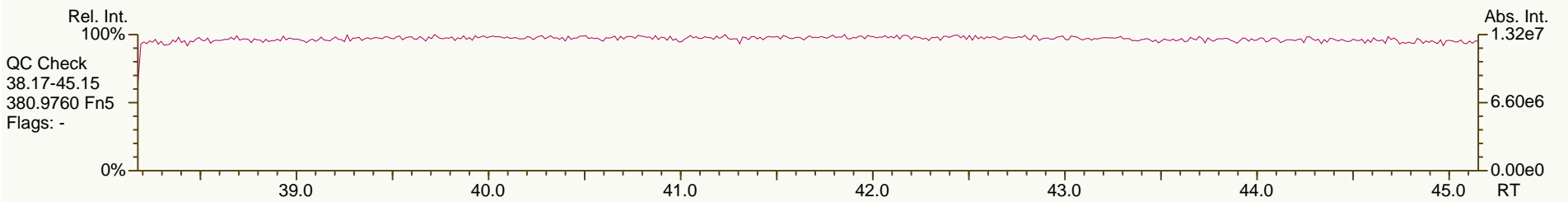
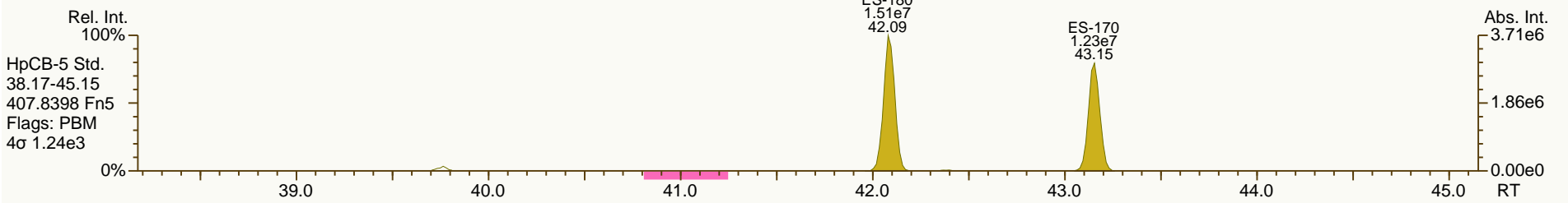
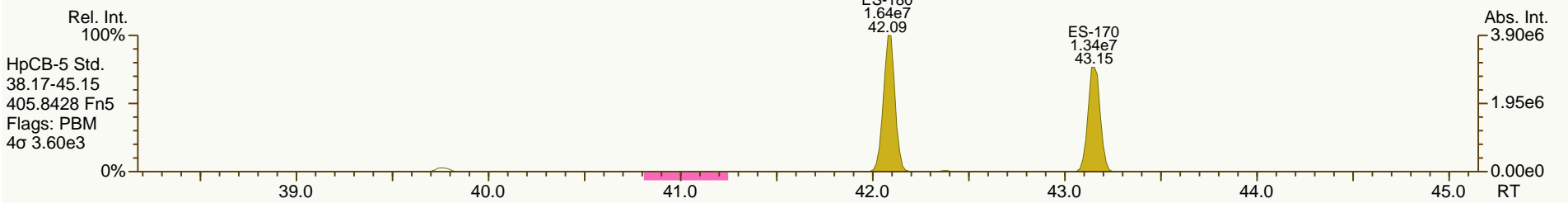
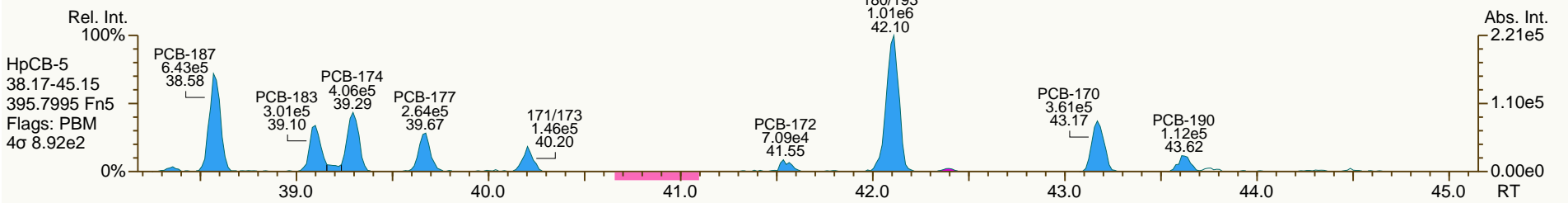
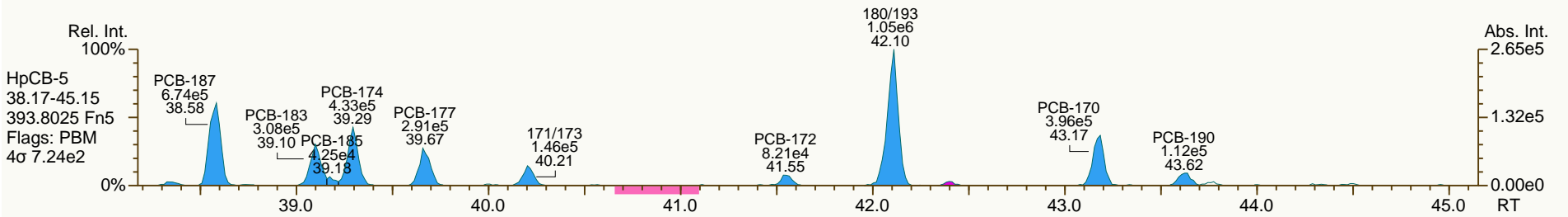
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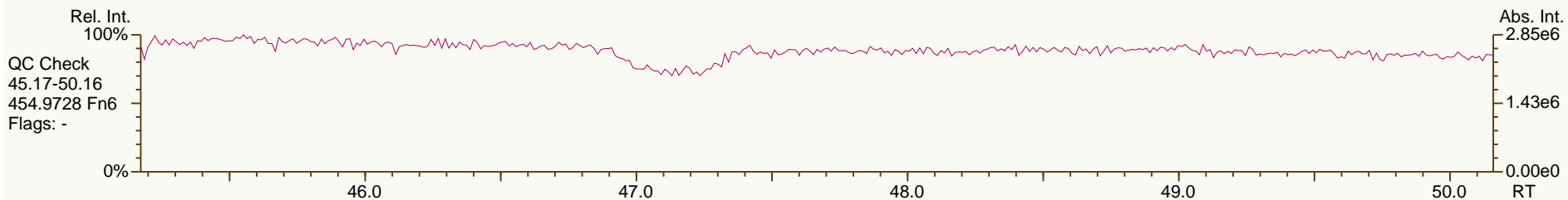
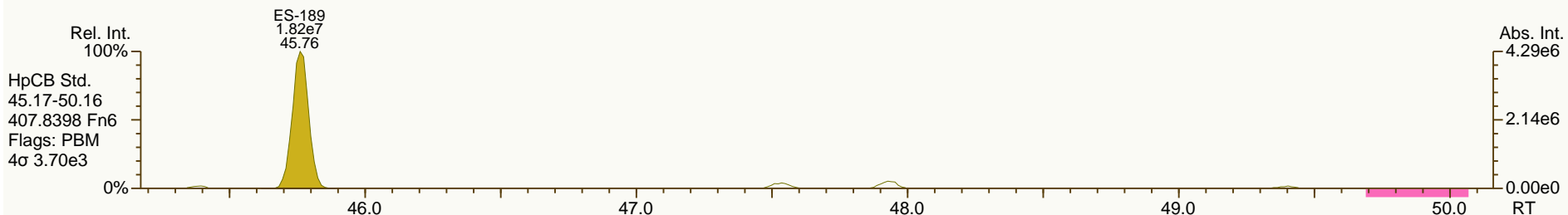
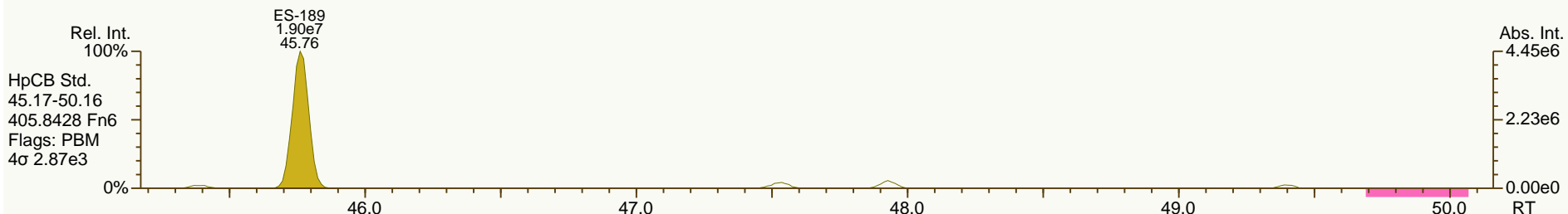
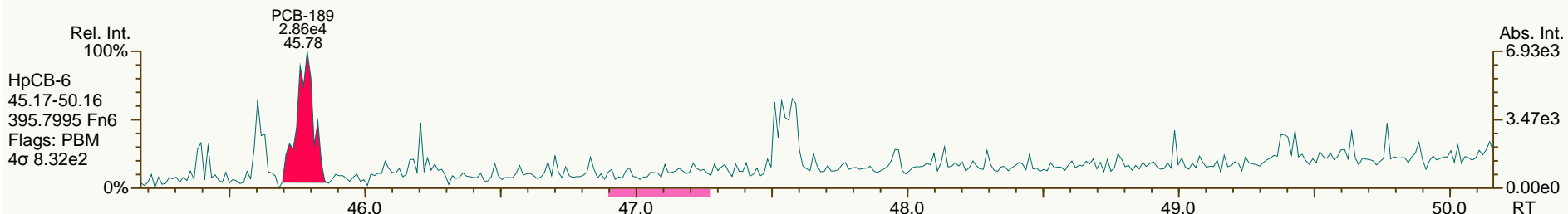
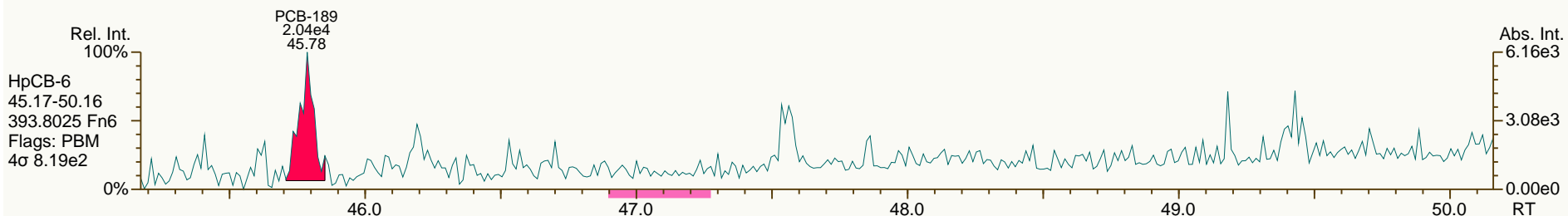
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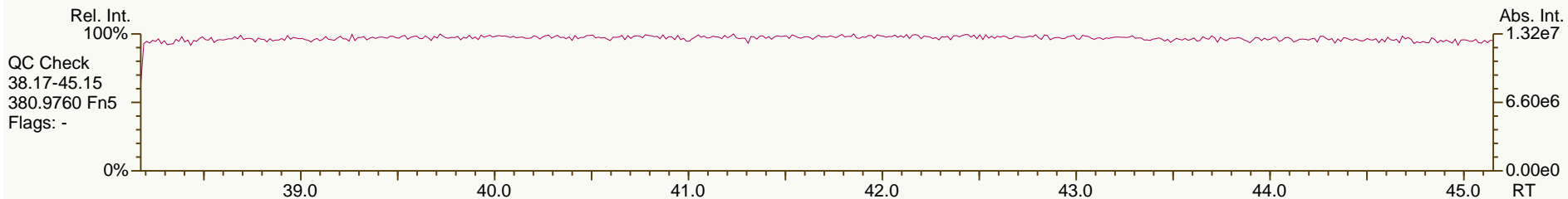
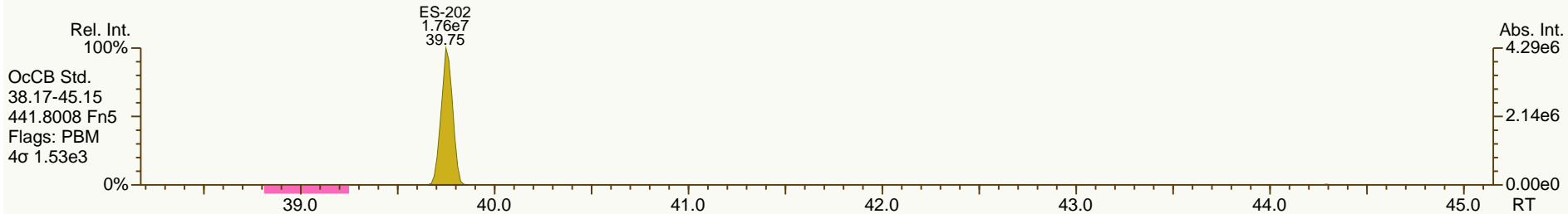
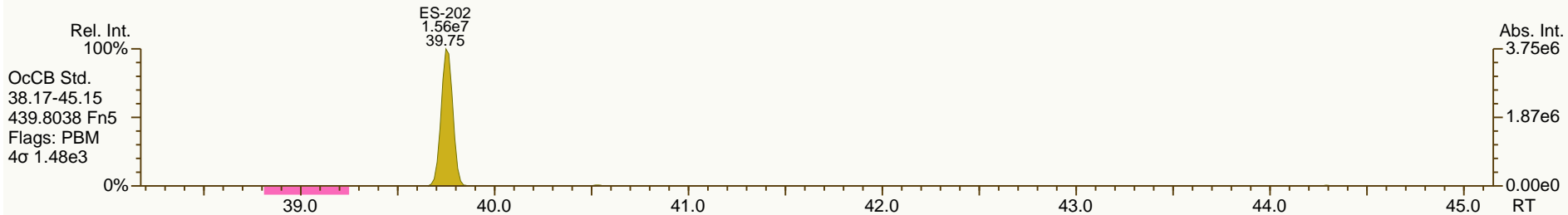
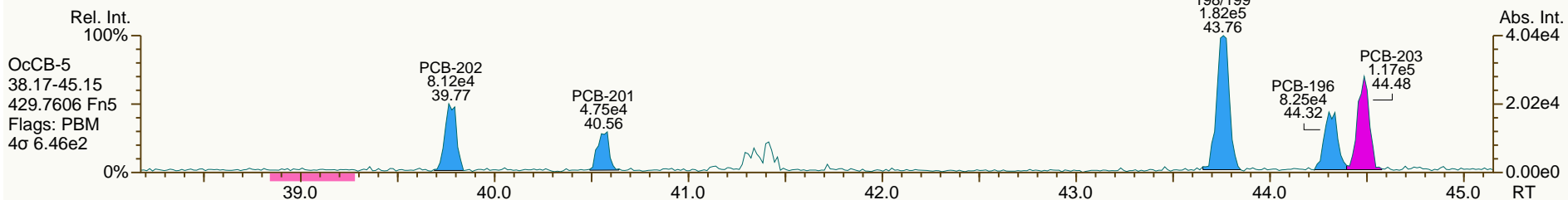
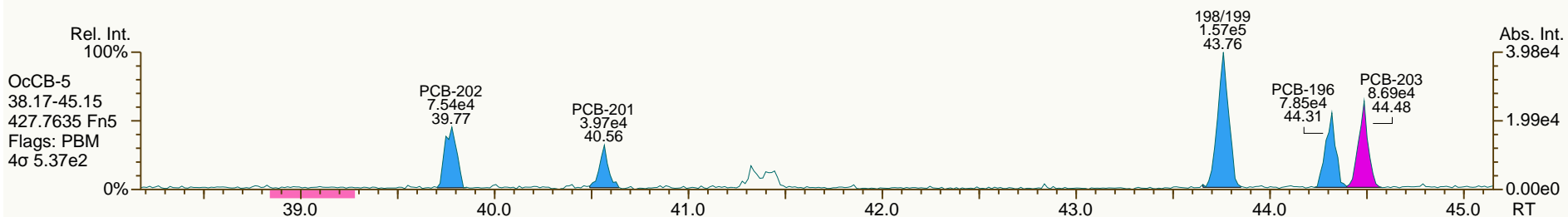




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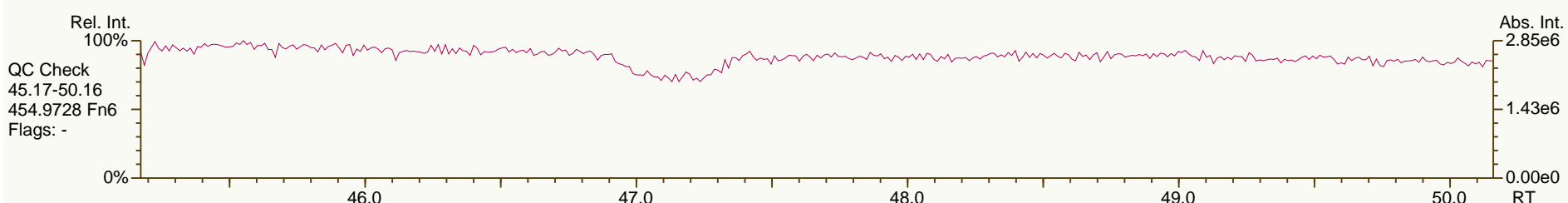
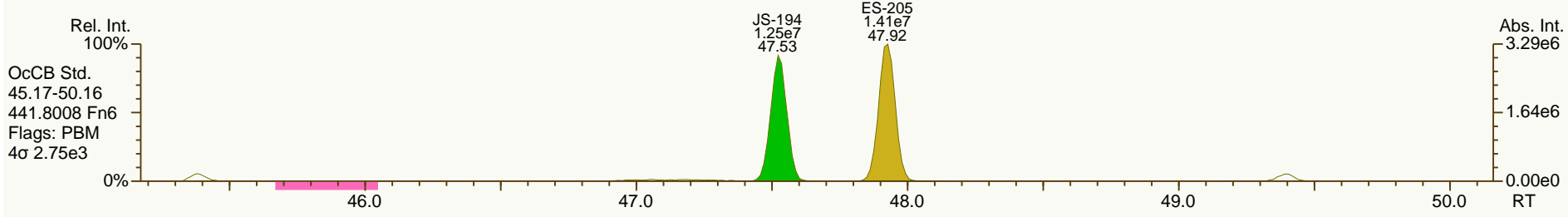
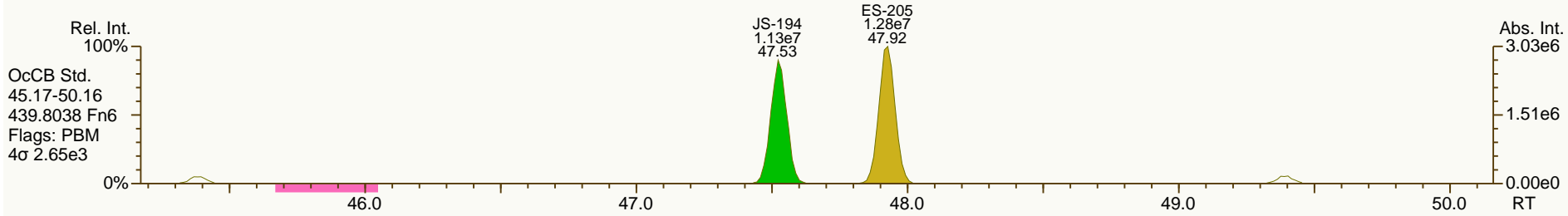
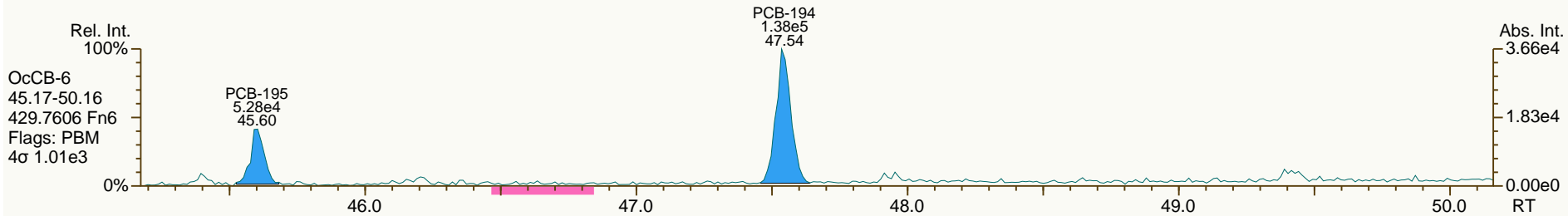
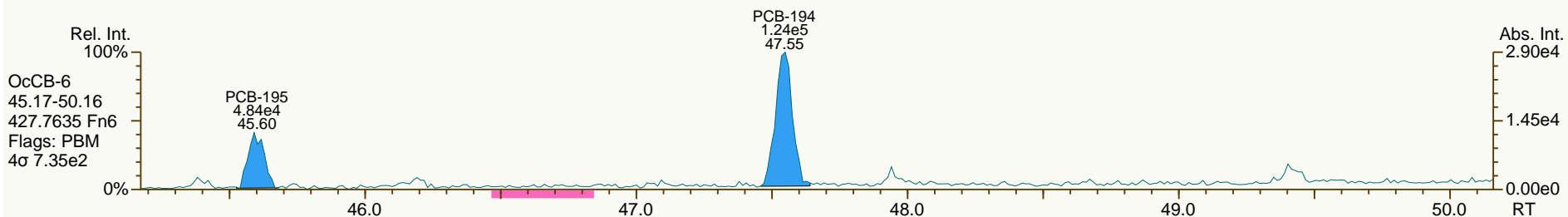
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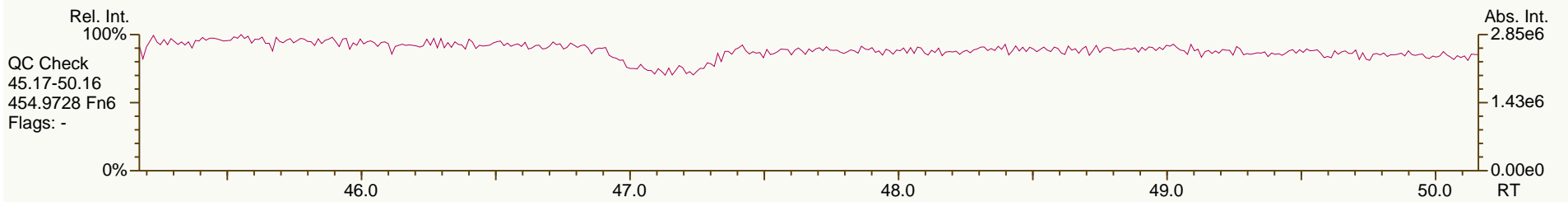
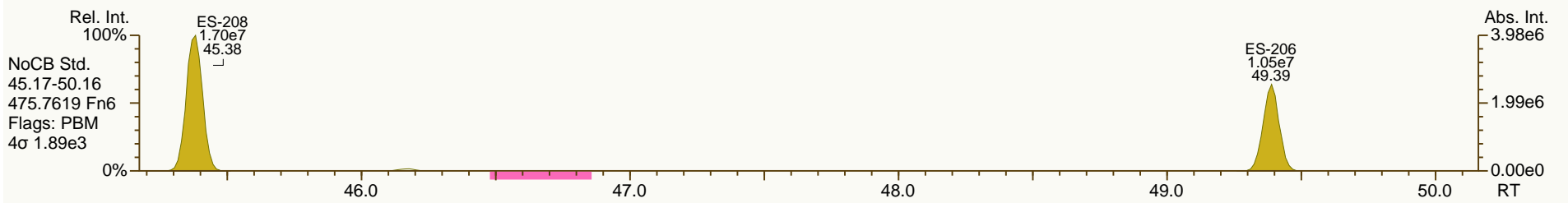
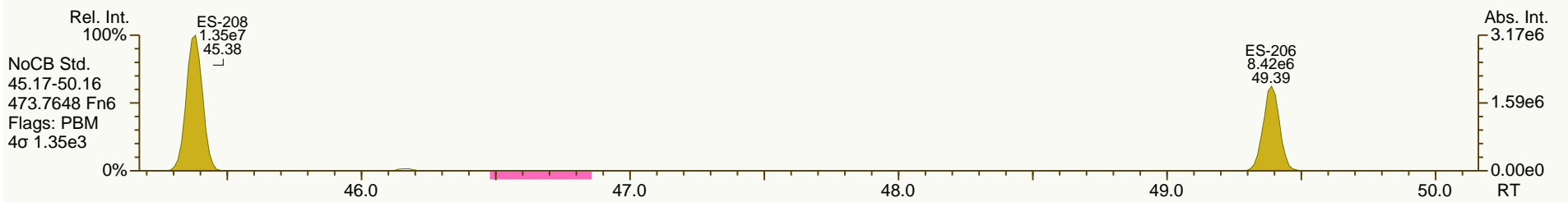
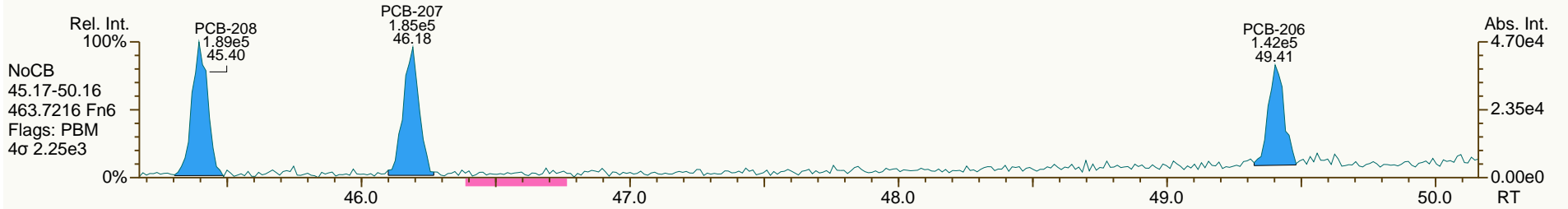
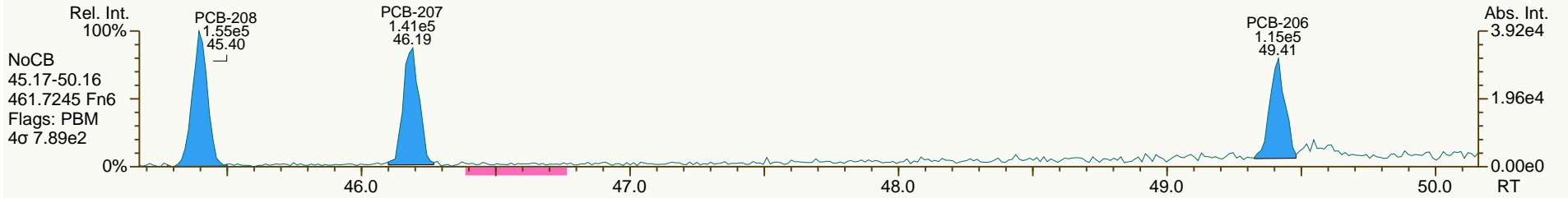
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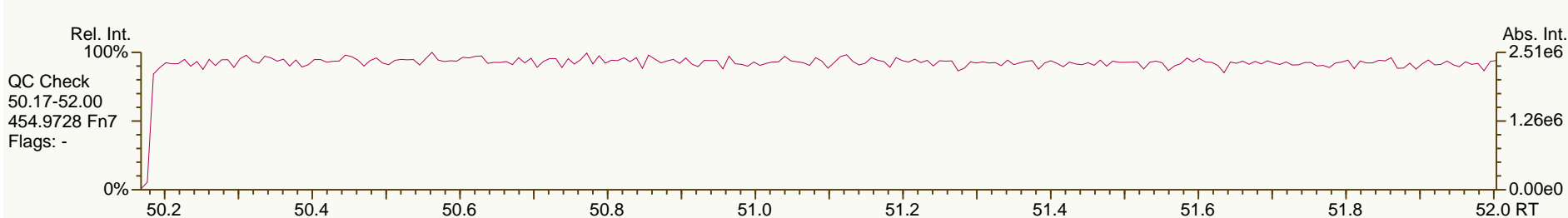
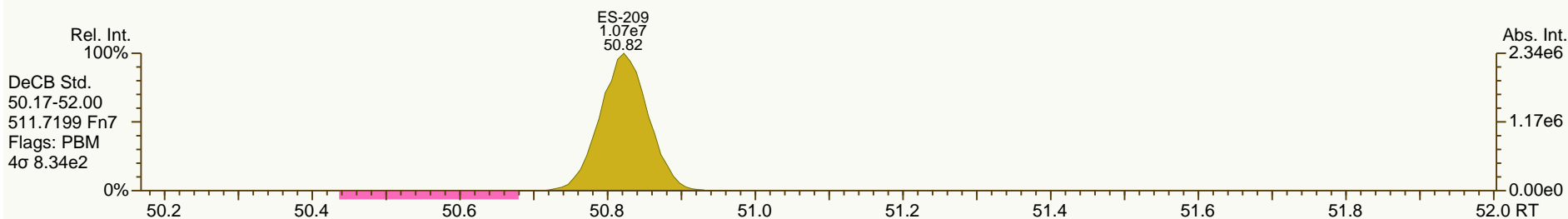
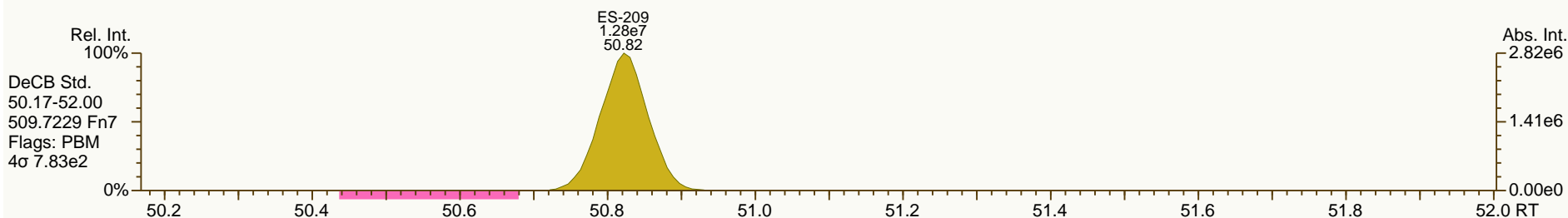
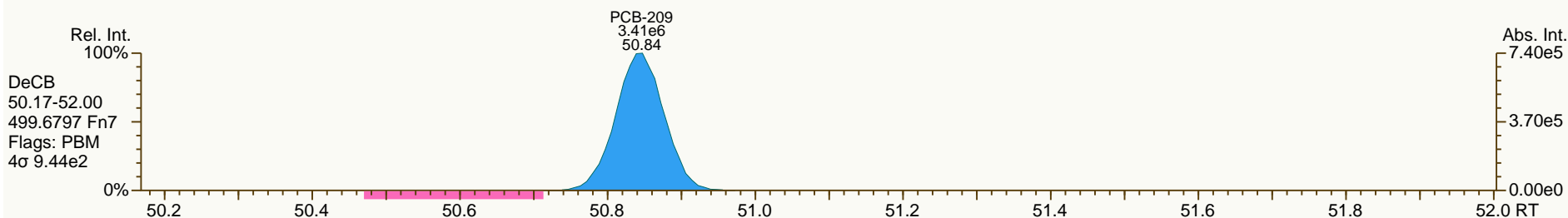
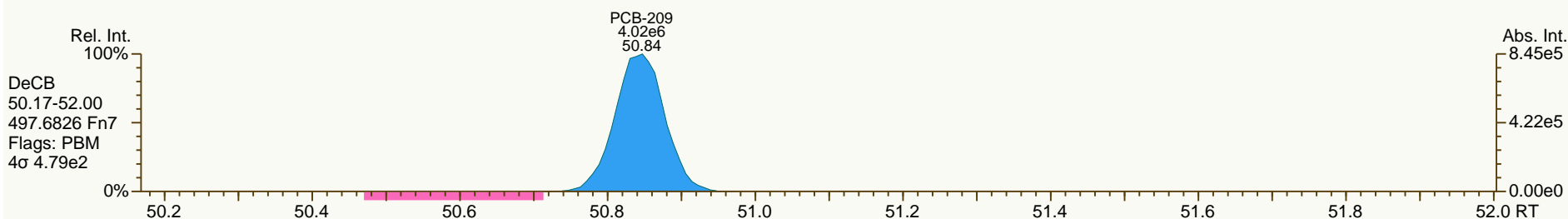
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SGS-AP ID: A6504\_11892\_PCB\_002  
Instr: AutoSpec-Premier MM7

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Lab ID: A6504\_11892\_PCB\_003

ACQ: 26-Mar-2014 23:52:48 LKB

Wt/Vol: 0.97 L

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Client ID: PB047.3-1SWMID-140313-N (TOTAL)

UTP: 31-Mar-2014 16:04 CEM

J-level: 10.3 pg/L Split: 1

Checkcode: 786-548-GYQ

Datafile: 140326X11

RPT: 31-Mar-2014 18:58 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.80		1.0006	1.0006	0	1.13E+06	0.81	1.15	43.7	4.87E+03	2.05
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.87E+03	1.88
PCB-105 233'44'-PeCB	35.79		1.0007	1.0006	-0.2	2.83E+06	0.61	1.11	134	2.78E+03	1.34
PCB-114 2344'5'-PeCB	35.24	J	1.0006	1.0005	-0.2	1.71E+05	0.63	1.20	7.32	2.78E+03	1.23
PCB-118 23'44'5'-PeCB	34.78		1.0006	1.0006	0	5.70E+06	0.63	1.19	256	2.78E+03	1.28
PCB-123 23'44'5'-PeCB	34.50	J	1.0007	1.0007	0	1.67E+05	0.61	1.21	7.24	2.78E+03	1.25
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	1.84E+03	1.03
PCB-156/157 ...-HxCB	40.93	J C	1.0005	1.0002	-0.7	3.49E+05	1.13	1.10	18.9	1.69E+03	1.3
PCB-167 23'44'55'-HxCB	39.96	J	1.0006	1.0007	+0.2	1.33E+05	1.07	1.16	6.35	1.69E+03	0.856
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.69E+03	1.03
PCB-189 233'44'55'-HpCB	45.78	J	1.0004	1.0005	+0.3	2.76E+04	0.95	1.07	1.75	1.67E+03	1.13
PCB-209 DeCB	50.84		1.0004	1.0004	0	2.18E+06	1.17	1.11	223	1.25E+03	1.54
ES PCB-1	11.88		0.7244	0.7243	-0.1	4.91E+07	3.34	1.19	57.4 %	15%	150%
ES PCB-3	14.17		0.8639	0.8639	0	5.31E+07	3.34	1.09	68.1 %	15%	150%
ES PCB-4	14.42		0.8794	0.8793	-0.1	2.96E+07	1.58	0.52	78.9 %	25%	150%
ES PCB-15	20.13		1.2273	1.2276	+0.4	7.15E+07	1.58	1.04	95.8 %	25%	150%
ES PCB-19	17.51		1.0673	1.0674	+0.1	3.26E+07	1.07	0.51	89.8 %	25%	150%
ES PCB-37	26.46		1.0788	1.0789	+0.2	5.52E+07	1.09	1.66	84.5 %	25%	150%
ES PCB-54	20.42		0.8328	0.8326	-0.2	3.20E+07	0.77	0.86	94.4 %	25%	150%
ES PCB-77	32.78		1.3366	1.3369	+0.6	4.63E+07	0.80	1.38	85.1 %	25%	150%
ES PCB-81	32.31		1.3172	1.3175	+0.6	4.59E+07	0.82	1.37	85.4 %	25%	150%
ES PCB-104	25.39		0.8324	0.8322	-0.3	3.19E+07	1.63	0.80	109 %	25%	150%
ES PCB-105	35.76		1.1721	1.1723	+0.4	3.92E+07	1.56	1.20	89.8 %	25%	150%
ES PCB-114	35.22		1.1544	1.1545	+0.2	4.01E+07	1.61	1.22	90.5 %	25%	150%
ES PCB-118	34.76		1.1392	1.1393	+0.2	3.85E+07	1.56	1.16	91.4 %	25%	150%
ES PCB-123	34.48		1.1300	1.1301	+0.2	3.91E+07	1.61	1.19	90.8 %	25%	150%
ES PCB-126	38.37		1.2577	1.2578	+0.2	3.43E+07	1.56	1.03	91.8 %	25%	150%
ES PCB-153	36.34		0.9716	0.9716	0	2.92E+07	1.25	1.11	92.3 %	25%	150%
ES PCB-155	30.34		0.8113	0.8112	-0.2	4.12E+07	1.28	1.59	91.8 %	25%	150%
ES PCB-156/157	40.92		1.0940	1.0940	0	6.92E+07	1.26	1.60	76.6 %	25%	150%
ES PCB-167	39.94		1.0677	1.0678	+0.2	3.70E+07	1.23	1.67	78.6 %	25%	150%
ES PCB-169	43.64		1.1666	1.1666	0	3.20E+07	1.26	1.56	72.9 %	25%	150%
ES PCB-170	43.15		0.9080	0.9080	0	2.12E+07	1.08	0.95	91.4 %	25%	150%
ES PCB-180	42.08		0.8855	0.8855	0	2.59E+07	1.12	1.14	93.1 %	25%	150%
ES PCB-188	35.22		0.7411	0.7410	-0.2	2.88E+07	1.08	0.94	109 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	3.03E+07	1.04	1.58	93.2 %	25%	150%
ES PCB-202	39.75		0.8365	0.8365	0	2.70E+07	0.92	0.97	98.8 %	25%	150%
ES PCB-205	47.92		1.0084	1.0084	0	2.16E+07	0.87	1.24	84.4 %	25%	150%
ES PCB-206	49.39		1.0392	1.0392	0	1.52E+07	0.79	0.83	89.2 %	25%	150%
ES PCB-208	45.38		0.9548	0.9548	0	2.50E+07	0.78	1.17	104 %	25%	150%
ES PCB-209	50.82		1.0694	1.0694	0	1.80E+07	1.20	1.11	79.3 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.90		0.9339	0.9339	0	6.27E+07	1.10	1.11	102 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	4.22E+07	1.61	1.03	105 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	1.78E+07	1.04	0.62	99.9 %	30%	135%
CS PCB-28	22.90		0.9339	0.9339	0	6.27E+07	1.10	1.85	86.3 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	4.22E+07	1.61	1.22	95 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	1.78E+07	1.04	0.58	108 %	30%	135%
JS PCB-9	16.40					7.18E+07	1.55				
JS PCB-52	24.52					3.93E+07	0.80				
JS PCB-101	30.51					3.63E+07	1.60				
JS PCB-138	37.40					2.82E+07	1.29				
JS PCB-194	47.52					2.05E+07	0.92				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			25.9		29.7		1.71	
			Di-CBs			231		266		2.07	
			Tri-CBs			2,020		2,020		2.06	
			Tetra-CBs			5,520		5,520		1.51	
			Penta-CBs			2,540		2,550		1.12	
			Hexa-CBs			796		817		0.918	
			Hepta-CBs			276		276		1.2	
			Octa-CBs			41.3		63.9		1.13	
			Nona-CBs			28.6		28.6		2.82	
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	4.05E+05	3.24	0.95	17.8	6.10E+03	1.74
PCB-2 3-MoCB	14.00	J EMPC	0.9880	0.9881	+0.1	1.10E+05	2.45	1.12	3.83	6.10E+03	1.52
PCB-3 4-MoCB	14.18	J	1.0010	1.0010	0	2.10E+05	3.28	1.01	8.08	6.10E+03	1.68
PCB-4 22'-DiCB	14.44		1.0011	1.0011	0	1.77E+06	1.64	1.23	100	6.11E+03	2.53
PCB-10 26-DiCB	14.62	J	1.0135	1.0138	+0.3	1.47E+05	SI	1.92	5.33	6.11E+03	1.63
PCB-9 25-DiCB	16.42	J EMPC	1.0010	1.0011	+0.1	1.44E+05	0.97	0.96	4.31	6.51E+03	1.71
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	6.51E+03	1.49
PCB-6 23'-DiCB	16.81	EMPC	1.0249	1.0250	+0.1	4.32E+05	1.21	1.01	12.3	6.51E+03	1.62
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	6.51E+03	1.62
PCB-8 24'-DiCB	17.23		1.0505	1.0507	+0.2	2.16E+06	1.51	1.06	58.6	6.51E+03	1.54
PCB-14 35-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	6.51E+03	1.35
PCB-11 33'-DiCB	19.57	B EMPC	0.9721	0.9721	0	6.95E+05	1.86	1.06	18.8	6.51E+03	1.54
PCB-13/12 34' /34-DiCB	19.84	J C	0.9866	0.9855	-1.3	2.74E+05	SI	1.05	7.53	6.51E+03	1.56
PCB-15 44'-DiCB	20.15		1.0008	1.0007	-0.1	2.09E+06	1.56	1.02	58.9	6.51E+03	1.61
PCB-19 22'6-TrCB	17.52		1.0010	1.0010	0	1.04E+06	1.09	1.15	57.3	4.85E+03	2.24
PCB-30/18 246/22'5-TrCB	19.29	C	1.1015	1.1019	+0.5	9.02E+06	1.03	1.54	370	4.85E+03	1.67
PCB-17 22'4-TrCB	19.68		1.1244	1.1245	+0.1	2.93E+06	1.06	1.32	140	4.85E+03	1.95
PCB-27 23'6-TrCB	19.88		1.1354	1.1354	0	6.97E+05	1.11	1.79	24.5	4.85E+03	1.43
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	4.85E+03	1.5
PCB-16 22'3-TrCB	20.11		1.1485	1.1487	+0.2	2.04E+06	1.06	0.98	131	4.85E+03	2.62

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.59		1.1759	1.1760	+0.1	3.75E+06	1.07	1.92	123	4.85E+03	1.34
PCB-34 23'5'-TrCB	21.74	J	0.8218	0.8216	-0.3	7.31E+04	0.92	1.23	2.22	5.74E+03	1.66
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	5.74E+03	1.63
PCB-26/29 23'5'/245-TrCB	22.15	C	0.8382	0.8371	-1.5	2.14E+06	0.98	1.27	63	5.74E+03	1.61
PCB-25 23'4-TrCB	22.37		0.8457	0.8456	-0.1	9.37E+05	0.95	1.27	27.4	5.74E+03	1.6
PCB-31 24'5-TrCB	22.65		0.8562	0.8560	-0.3	1.39E+07	1.01	1.33	390	5.74E+03	1.53
PCB-28/20 244'/233'-TrCB	22.92	C	0.8669	0.8664	-0.7	1.31E+07	1.01	1.23	397	5.74E+03	1.65
PCB-21/33 234/23'4'-TrCB	23.14	C	0.8738	0.8745	+1.0	3.70E+06	1.03	1.27	109	5.74E+03	1.61
PCB-22 234'-TrCB	23.49		0.8879	0.8879	0	3.27E+06	0.99	1.18	103	5.74E+03	1.72
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	5.74E+03	1.57
PCB-39 34'5-TrCB	25.24	J	0.9522	0.9540	+2.7	1.48E+05	0.99	1.34	4.11	5.74E+03	1.52
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	5.74E+03	1.68
PCB-35 33'4-TrCB	26.11	J	0.9871	0.9870	-0.2	2.30E+05	0.95	1.17	7.35	5.74E+03	1.74
PCB-37 344'-TrCB	26.48		1.0007	1.0009	+0.3	2.07E+06	1.02	1.08	71.5	5.74E+03	1.89
PCB-54 22'66'-TeCB	20.43	J	1.0010	1.0009	-0.1	8.16E+04	0.76	1.35	3.89	2.34E+03	0.935
PCB-50/53 22'46/22'56'-TeCB	22.40	C	0.9145	0.9134	-1.5	2.85E+06	0.78	0.91	141	2.81E+03	1.34
PCB-45 22'36-TeCB	23.01		0.9385	0.9384	-0.1	2.14E+06	0.77	0.82	117	2.81E+03	1.48
PCB-51 22'46'-TeCB	23.08		0.9414	0.9413	-0.1	9.33E+05	0.80	0.88	47.8	2.81E+03	1.39
PCB-46 22'36'-TeCB	23.29		0.9499	0.9498	-0.1	8.48E+05	0.81	0.73	51.9	2.81E+03	1.66
PCB-52 22'55'-TeCB	24.54		1.0009	1.0009	0	1.81E+07	0.78	0.89	912	2.81E+03	1.36
PCB-73 23'5'6-TeCB	24.68	J	1.0062	1.0064	+0.3	6.98E+04	0.84	1.18	2.66	2.81E+03	1.03
PCB-43 22'35-TeCB	24.77		1.0100	1.0101	+0.1	4.60E+05	0.80	0.76	27	2.81E+03	1.59
PCB-69/49 23'46/22'45'-TeCB	24.98	C	1.0181	1.0189	+1.2	1.11E+07	0.80	1.09	456	2.81E+03	1.12
PCB-48 22'45-TeCB	25.25		1.0296	1.0296	0	2.77E+06	0.79	0.89	139	2.81E+03	1.37
PCB-44/47/65 ...-TeCB	25.44	C	1.0384	1.0374	-1.5	1.63E+07	0.78	0.95	770	2.81E+03	1.28
PCB-59/62/75 ...-TeCB	25.73	C	1.0497	1.0493	-0.6	1.43E+06	0.77	1.24	51.6	2.81E+03	0.979
PCB-42 22'34'-TeCB	25.90		1.0563	1.0564	+0.2	3.35E+06	0.78	0.82	184	2.81E+03	1.49
PCB-41 22'34-TeCB	26.23		1.0700	1.0698	-0.3	7.34E+05	0.77	0.75	44.1	2.81E+03	1.63
PCB-71/40 23'4'6/22'33'-TeCB	26.33	C	1.0738	1.0739	+0.2	6.66E+06	0.79	0.91	330	2.81E+03	1.34
PCB-64 234'6-TeCB	26.53		1.0819	1.0820	+0.2	8.45E+06	0.79	1.31	289	2.81E+03	0.927
PCB-72 23'55'-TeCB	27.25	J	0.8435	0.8433	-0.3	1.38E+05	0.80	1.27	4.88	4.87E+03	1.66
PCB-68 23'45'-TeCB	27.50		0.8514	0.8514	0	3.90E+05	0.73	1.32	13.2	4.87E+03	1.59
PCB-57 233'5-TeCB	27.87	J	0.8630	0.8628	-0.3	6.09E+04	0.81	1.21	2.26	4.87E+03	1.75
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	4.87E+03	1.73
PCB-67 23'45-TeCB	28.24		0.8741	0.8741	0	3.42E+05	0.82	1.29	11.9	4.87E+03	1.63
PCB-63 234'5-TeCB	28.46		0.8811	0.8811	0	5.61E+05	0.81	1.36	18.5	4.87E+03	1.55
PCB-61/70/74/76 ...-TeCB	28.76	C	0.8901	0.8902	+0.2	2.59E+07	0.80	1.22	953	4.87E+03	1.73
PCB-66 23'44'-TeCB	29.03		0.8988	0.8987	-0.2	1.41E+07	0.78	1.17	541	4.87E+03	1.8
PCB-55 233'4-TeCB	29.18	J	0.9033	0.9032	-0.2	1.31E+05	0.87	1.15	5.1	4.87E+03	1.83
PCB-56 233'4'-TeCB	29.62		0.9168	0.9167	-0.2	6.49E+06	0.80	1.16	252	4.87E+03	1.82
PCB-60 2344'-TeCB	29.81		0.9228	0.9228	0	2.76E+06	0.83	1.17	106	4.87E+03	1.81
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	4.87E+03	1.53
PCB-79 33'45'-TeCB	31.46	J EMPC	0.9737	0.9739	+0.4	1.18E+05	0.93	1.32	4.02	4.87E+03	1.6
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.87E+03	1.9
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.40E+03	0.593
PCB-96 22'366'-PeCB	25.73	J	1.0134	1.0133	-0.2	1.74E+05	0.62	1.17	9.67	1.40E+03	0.728
PCB-103 22'45'6-PeCB	27.42	J EMPC	0.8989	0.8989	0	8.10E+04	0.79	0.95	4.47	2.78E+03	1.59
PCB-94 22'356'-PeCB	27.61	J	0.9051	0.9051	0	8.55E+04	0.66	0.80	5.62	2.78E+03	1.89

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.99		0.9176	0.9175	-0.2	5.35E+06	0.63	0.87	324	2.78E+03	1.74
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	2.78E+03	1.73
PCB-102 22'456'-PeCB	28.32		0.9282	0.9281	-0.2	3.94E+05	0.65	0.88	23.6	2.78E+03	1.72
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	2.78E+03	1.77
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	2.78E+03	1.79
PCB-91 22'34'6-PeCB	28.75		0.9425	0.9424	-0.2	1.37E+06	0.62	0.86	84.3	2.78E+03	1.76
PCB-84 22'33'6-PeCB	28.94		0.9487	0.9487	0	1.90E+06	0.65	0.72	139	2.78E+03	2.1
PCB-89 22'346'-PeCB	29.36		0.9624	0.9624	0	1.84E+05	0.63	0.78	12.4	2.78E+03	1.94
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.78E+03	1.24
PCB-92 22'355'-PeCB	30.02		0.9841	0.9840	-0.2	1.07E+06	0.60	0.84	66.7	2.78E+03	1.79
PCB-113/90/101 ...-PeCB	30.53	C	0.9999	1.0007	+1.5	6.50E+06	0.62	0.97	352	2.78E+03	1.55
PCB-83 22'33'5-PeCB	30.93		1.0142	1.0138	-0.7	2.47E+05	0.60	0.66	19.7	2.78E+03	2.29
PCB-99 22'44'5-PeCB	31.04		1.0173	1.0174	+0.2	3.75E+06	0.62	0.98	200	2.78E+03	1.54
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	2.78E+03	1.31
PCB-108/119/86/97/125...-PeCB	31.51	C	1.0320	1.0329	+1.7	5.19E+06	0.60	0.98	280	2.78E+03	1.55
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	2.78E+03	1.39
PCB-116/85 23456/22'344'-PeCB	32.09	C	1.0525	1.0518	-1.3	1.81E+06	0.64	0.97	98.2	2.78E+03	1.56
PCB-110 233'4'6-PeCB	32.23		1.0563	1.0564	+0.2	8.75E+06	0.59	1.10	419	2.78E+03	1.38
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	2.78E+03	1.35
PCB-82 22'33'4-PeCB	32.51		1.0656	1.0657	+0.2	8.45E+05	0.61	0.69	64	2.78E+03	2.18
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	2.78E+03	1.26
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	2.78E+03	1.24
PCB-107/124 ...-PeCB	34.19	J C	0.9915	0.9916	+0.2	2.65E+05	0.71	1.10	12.7	2.78E+03	1.37
PCB-109 233'46-PeCB	34.39		0.9976	0.9976	0	5.30E+05	0.60	1.22	22.8	2.78E+03	1.24
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	2.78E+03	1.4
PCB-122 233'4'5'-PeCB	35.07	J EMPC	1.0091	1.0089	-0.4	9.65E+04	0.77	1.01	4.91	2.78E+03	1.47
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	2.78E+03	1.4
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.23E+03	0.488
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.23E+03	0.565
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.23E+03	0.549
PCB-136 22'33'66'-HxCB	30.97		1.0207	1.0207	0	5.21E+05	1.35	1.02	25.4	1.23E+03	0.6
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.23E+03	0.592
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.23E+03	0.79
PCB-151/135 ...-HxCB	33.03	C	1.0886	1.0885	-0.2	8.63E+05	1.33	1.06	57.5	1.23E+03	0.838
PCB-154 22'44'56'-HxCB	33.24	J	1.0955	1.0956	+0.2	5.67E+04	1.16	1.26	3.18	1.23E+03	0.707
PCB-144 22'345'6-HxCB	33.51	J	1.1042	1.1043	+0.2	1.25E+05	1.25	1.10	8.03	1.23E+03	0.805
PCB-147/149 ...-HxCB	33.80	C	1.1142	1.1141	-0.2	2.28E+06	1.35	1.10	146	1.23E+03	0.807
PCB-134 22'33'56-HxCB	33.98	J EMPC	1.1199	1.1201	+0.4	1.16E+05	1.51	0.81	10	1.23E+03	1.09
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.23E+03	0.812
PCB-139/140 ...-HxCB	34.32	J C	1.1313	1.1313	0	6.46E+04	1.35	1.11	4.1	1.23E+03	0.8
PCB-131 22'33'46-HxCB	34.49	J	1.1370	1.1368	-0.4	4.29E+04	1.29	0.94	3.21	1.23E+03	0.941
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.23E+03	0.963
PCB-132 22'33'46'-HxCB	34.88		1.1495	1.1496	+0.2	8.72E+05	1.26	0.97	63.4	1.23E+03	0.914
PCB-133 22'33'55'-HxCB	35.28	J	1.1628	1.1627	-0.2	4.97E+04	1.19	1.04	3.38	1.23E+03	0.856
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.23E+03	0.673
PCB-146 22'34'55'-HxCB	35.84		0.9582	0.9581	-0.2	4.72E+05	1.40	1.16	28.8	1.23E+03	0.767
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.23E+03	0.624
PCB-153/168 ...-HxCB	36.36	C	0.9728	0.9722	-1.3	2.74E+06	1.26	1.38	140	1.23E+03	0.642

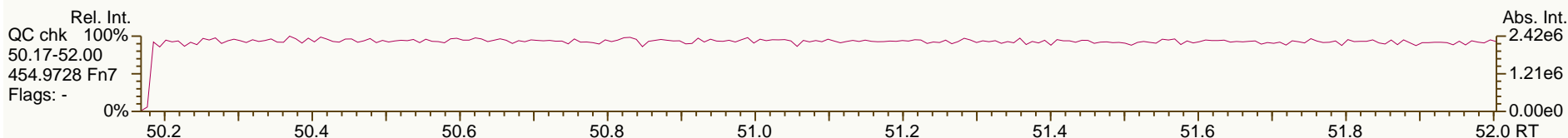
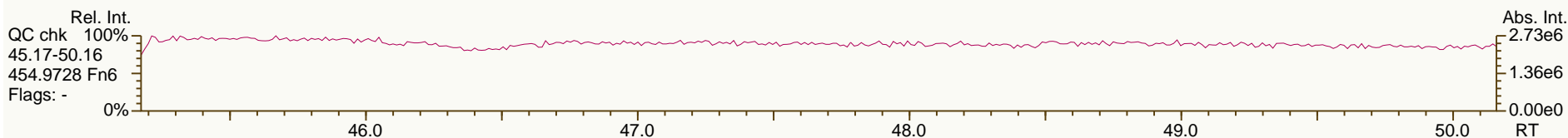
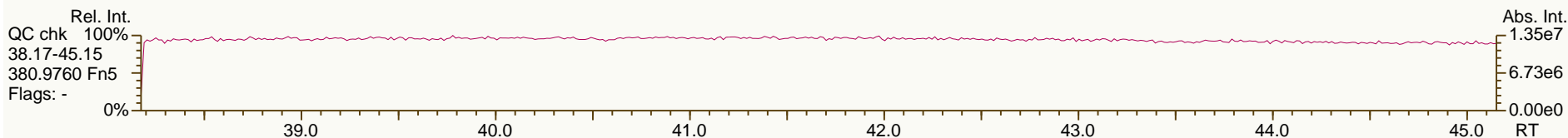
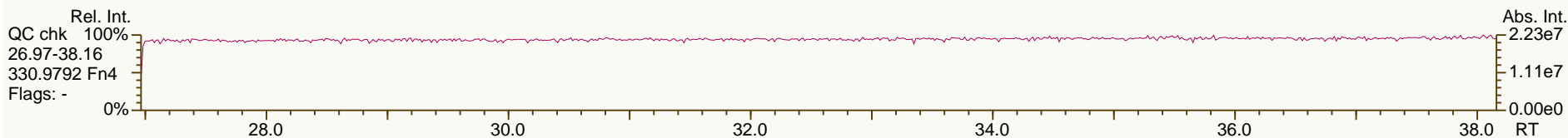
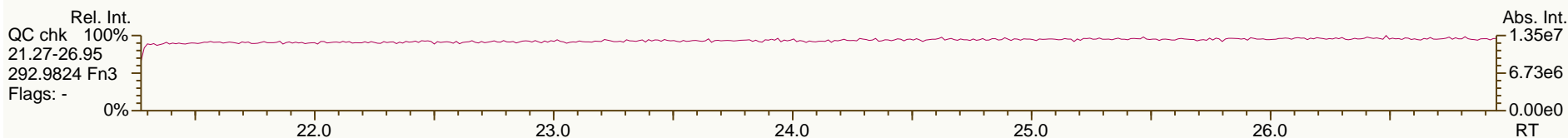
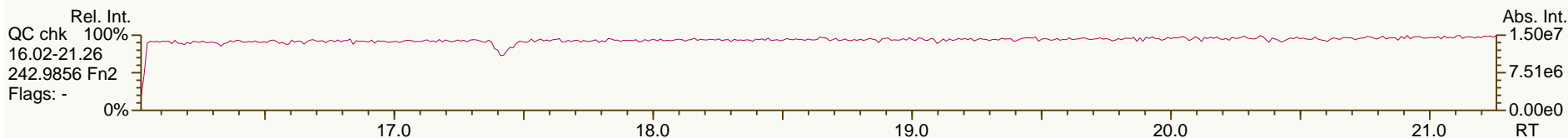
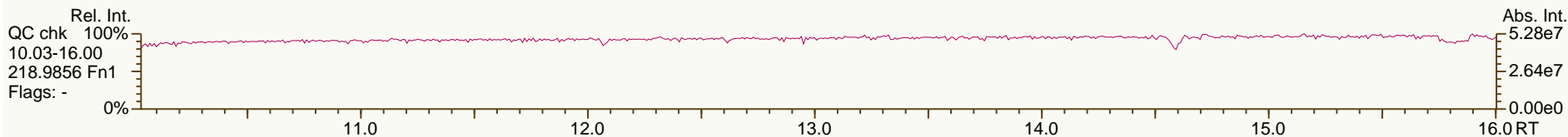


Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.53		0.9767	0.9766	-0.2	4.24E+05	1.21	1.01	29.7	1.23E+03	0.882
PCB-130 22'33'45'-HxCB	36.88	EMPC	0.9859	0.9859	0	1.51E+05	1.46	0.91	11.7	1.23E+03	0.977
PCB-137 22'344'5'-HxCB	37.07	J	0.9912	0.9910	-0.4	1.10E+05	1.20	1.15	6.78	1.23E+03	0.773
PCB-164 233'4'5'6'-HxCB	37.15		0.9934	0.9933	-0.2	2.51E+05	1.22	1.37	12.9	1.23E+03	0.648
PCB-163/138/129 ...-HxCB	37.43	C	1.0011	1.0007	-0.9	3.04E+06	1.24	1.12	191	1.23E+03	0.79
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.23E+03	0.701
PCB-158 233'44'6'-HxCB	37.76		1.0096	1.0095	-0.2	3.55E+05	1.12	1.49	16.8	1.23E+03	0.596
PCB-128/166 ...-HxCB	38.51	C	0.9640	0.9643	+0.7	4.86E+05	1.18	0.89	30.6	1.69E+03	1.12
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.69E+03	0.926
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.69E+03	0.93
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.04E+03	0.585
PCB-179 22'33'566'-HpCB	35.52		1.0086	1.0086	0	2.51E+05	1.04	1.09	16.5	1.04E+03	0.684
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.04E+03	0.713
PCB-176 22'33'466'-HpCB	36.27	J	1.0300	1.0300	0	7.30E+04	1.05	1.15	4.53	1.04E+03	0.645
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.04E+03	0.688
PCB-178 22'33'55'6'-HpCB	37.80	J	1.0733	1.0734	+0.2	8.56E+04	0.89	0.75	8.13	1.04E+03	0.985
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0888	-		0.00E+00		1.09	ND	1.95E+03	1.47
PCB-187 22'34'55'6'-HpCB	38.57		1.0953	1.0953	0	6.62E+05	1.05	1.17	45.1	1.95E+03	1.38
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.95E+03	1.34
PCB-183 22'344'5'6'-HpCB	39.10		1.1101	1.1102	+0.2	3.07E+05	1.06	1.23	19.9	1.95E+03	1.31
PCB-185 22'3455'6'-HpCB	39.18	J	1.1125	1.1127	+0.5	3.87E+04	1.03	1.05	2.92	1.95E+03	1.53
PCB-174 22'33'456'-HpCB	39.29		1.1156	1.1157	+0.2	3.93E+05	0.96	1.01	31	1.95E+03	1.59
PCB-177 22'33'45'6'-HpCB	39.67		1.1263	1.1264	+0.2	2.75E+05	1.10	0.96	22.8	1.95E+03	1.68
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.95E+03	1.49
PCB-171/173 ...-HpCB	40.21	J C	1.1414	1.1417	+0.7	1.42E+05	0.99	0.95	12	1.95E+03	1.7
PCB-172 22'33'455'-HpCB	41.54	J	0.9079	0.9079	0	7.89E+04	1.04	0.99	6.34	1.95E+03	1.62
PCB-192 233'455'6'-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.95E+03	1.25
PCB-180/193 ...-HpCB	42.10	C	0.9193	0.9200	+1.8	1.05E+06	1.06	1.23	67.7	1.95E+03	1.3
PCB-191 233'44'5'6'-HpCB	42.39	J	0.9266	0.9264	-0.5	2.16E+04	1.03	1.35	1.27	1.95E+03	1.19
PCB-170 22'33'44'5'-HpCB	43.17		0.9434	0.9434	0	3.46E+05	1.00	1.12	30.1	1.95E+03	1.81
PCB-190 233'44'56-HpCB	43.62	J	0.9533	0.9532	-0.3	1.01E+05	0.95	1.54	6.33	1.95E+03	1.31
PCB-202 22'33'55'66'-OoCB	39.78	J	1.0005	1.0006	+0.2	6.34E+04	0.83	1.05	4.58	1.21E+03	0.904
PCB-201 22'33'45'66'-OoCB	40.56	J	1.0203	1.0203	0	4.16E+04	0.83	1.12	2.84	1.21E+03	0.853
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.21E+03	0.917
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.21E+03	0.874
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.21E+03	0.877
PCB-198/199 ...-OoCB	43.75	J C	1.1002	1.1006	+1.0	1.88E+05	0.94	0.72	19.8	1.21E+03	1.32
PCB-196 22'33'44'56'-OoCB	44.31	J	1.1147	1.1148	+0.3	7.85E+04	0.86	0.76	7.84	1.21E+03	1.25
PCB-203 22'344'55'6'-OoCB	44.48	J EMPC	1.1189	1.1190	+0.3	8.83E+04	1.07	0.78	8.63	1.21E+03	1.22
PCB-195 22'33'44'56-OoCB	45.60	J	0.9516	0.9515	-0.3	4.88E+04	0.99	0.75	6.21	1.43E+03	1.91
PCB-194 22'33'44'55'-OoCB	47.54	EMPC	0.9921	0.9921	0	1.19E+05	1.07	0.81	14	1.43E+03	1.77
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.43E+03	1.35
PCB-208 22'33'455'66'-NoCB	45.40	J	1.0005	1.0004	-0.3	1.14E+05	0.85	1.12	8.41	2.73E+03	2.08
PCB-207 22'33'44'566'-NoCB	46.18	J	1.0178	1.0178	0	1.09E+05	0.75	1.14	7.92	2.73E+03	2.05
PCB-206 22'33'44'55'6'-NoCB	49.41		1.0004	1.0005	+0.3	1.01E+05	0.90	1.11	12.3	2.73E+03	3.57

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Sample ID: PB047.3-1SWMID-140313-N (TOTAL)  
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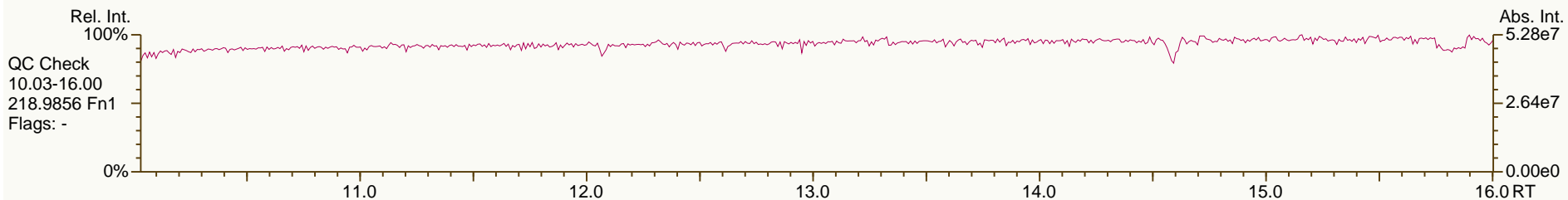
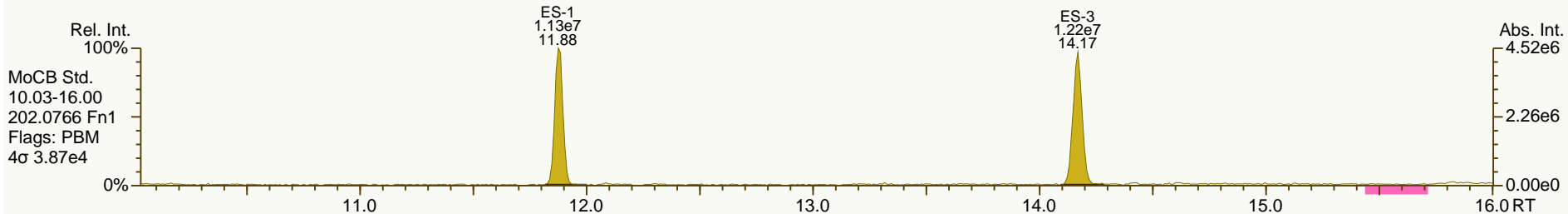
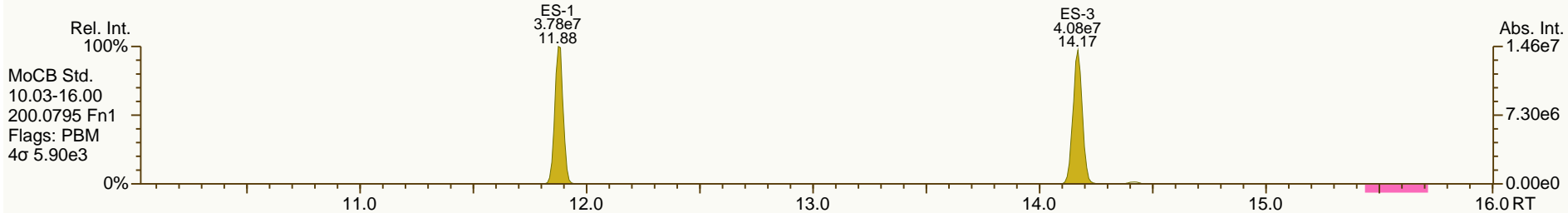
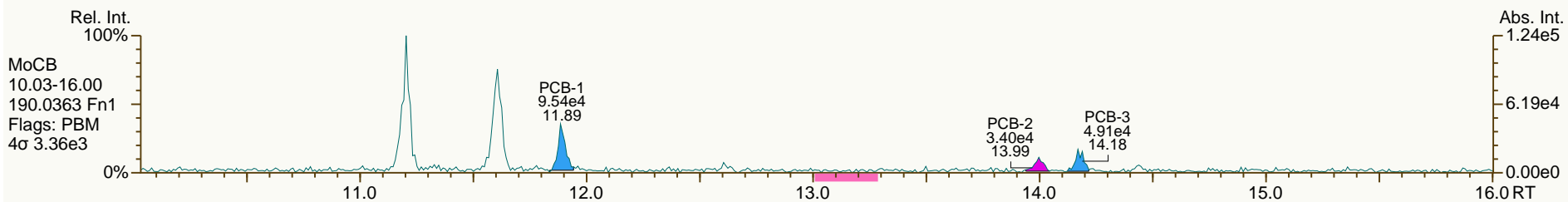
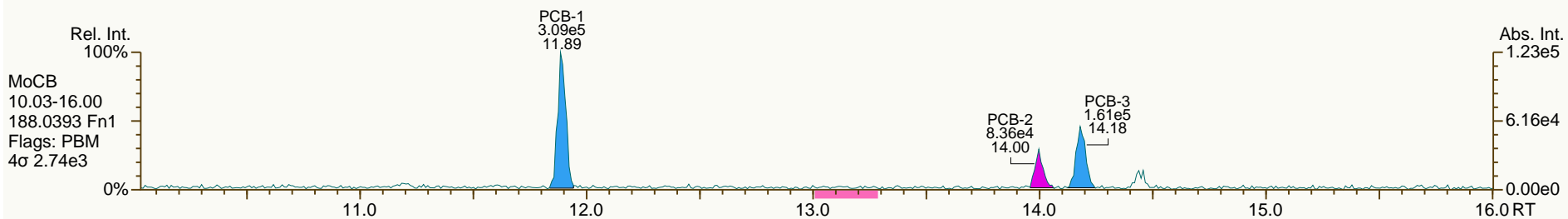
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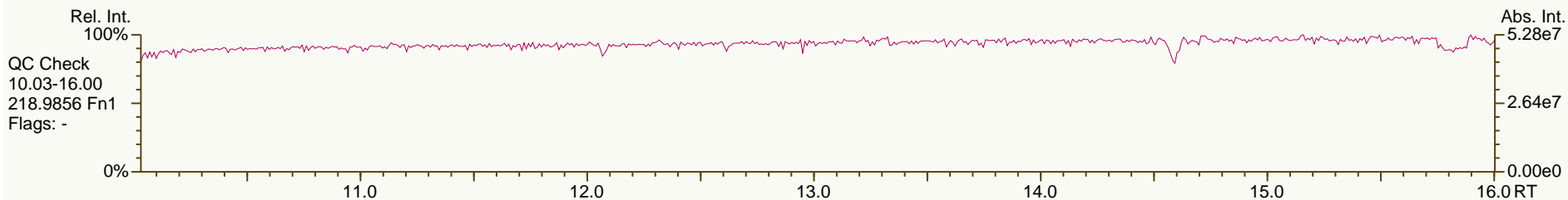
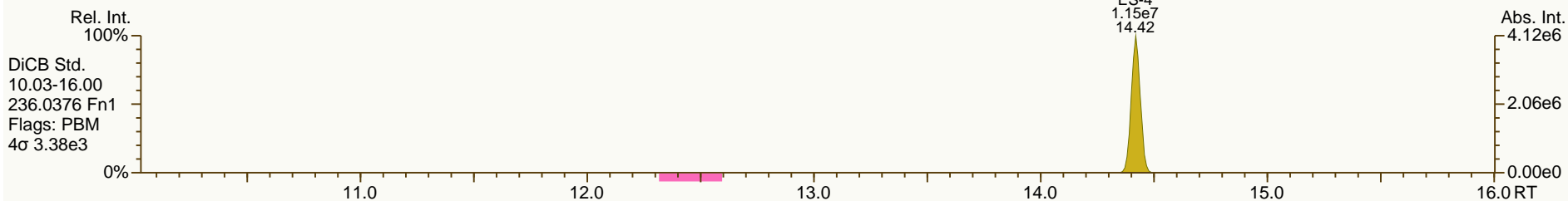
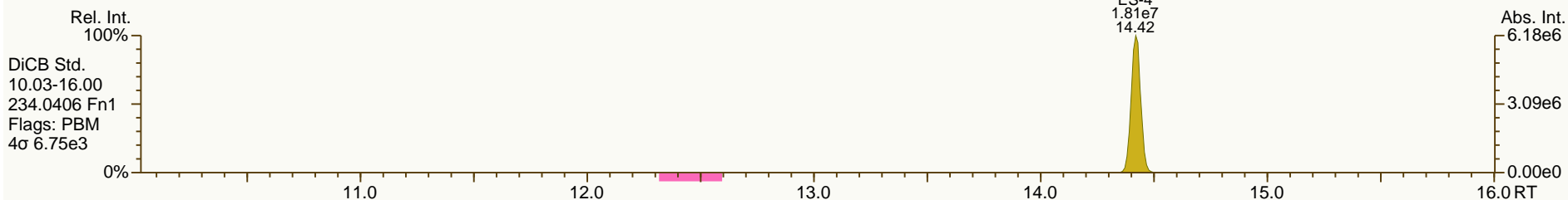
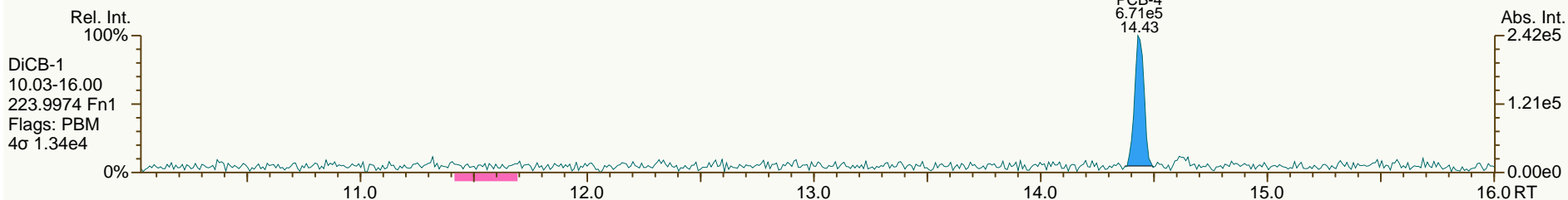
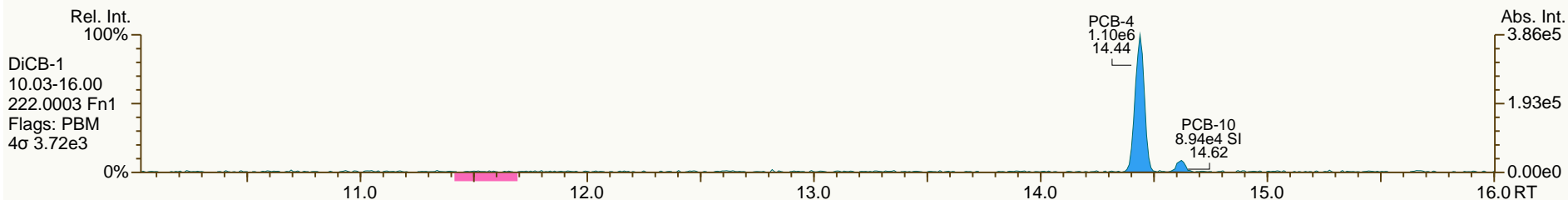
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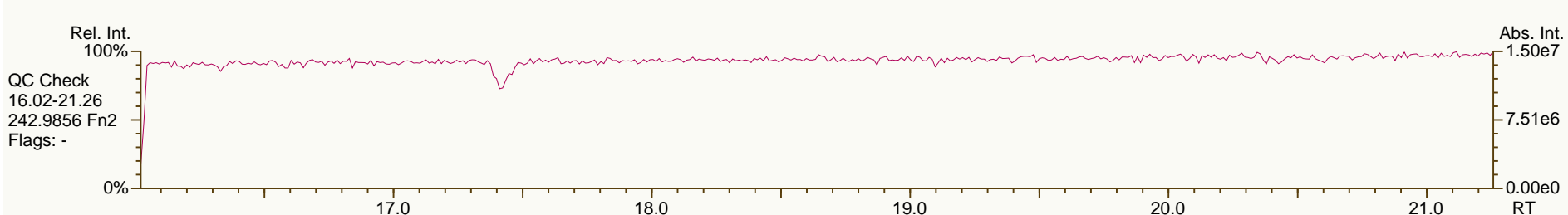
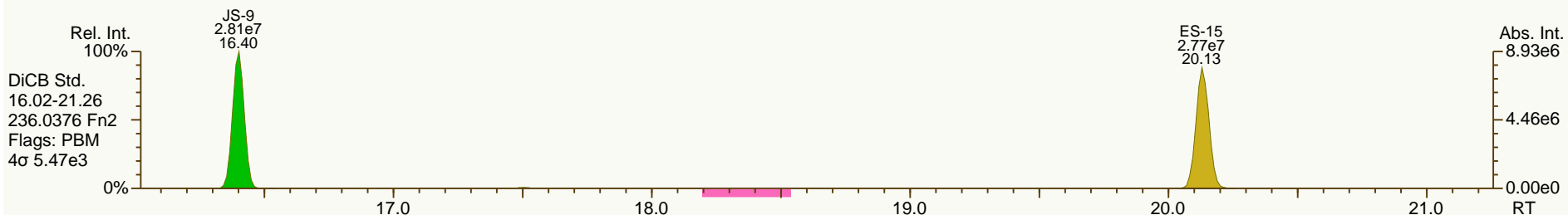
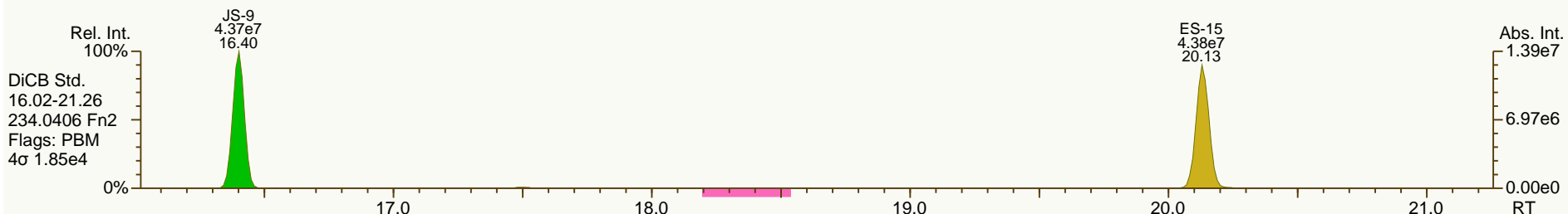
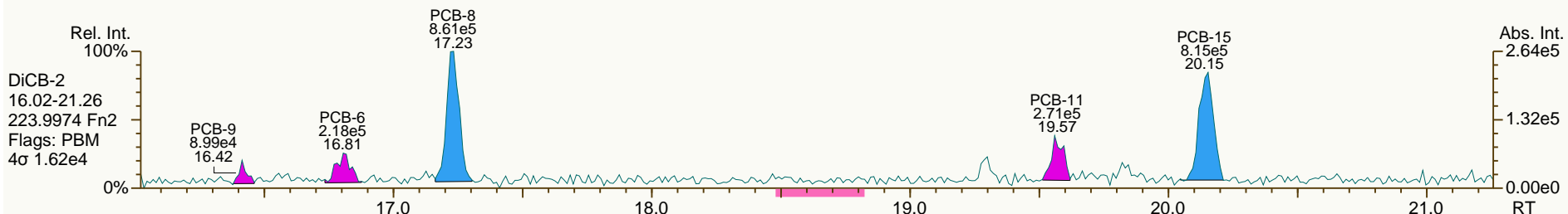
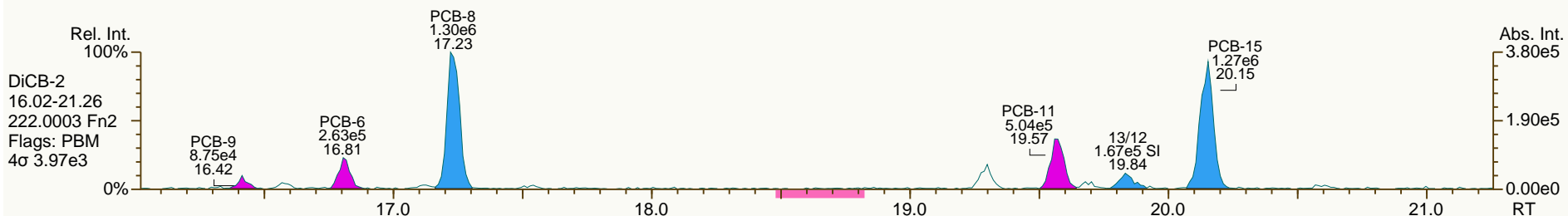
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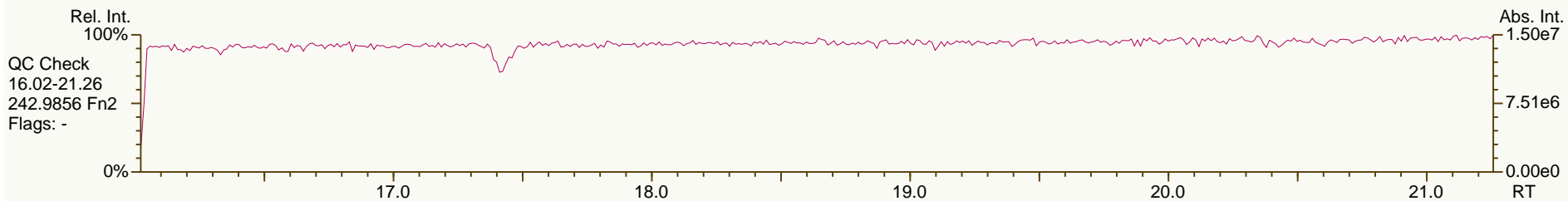
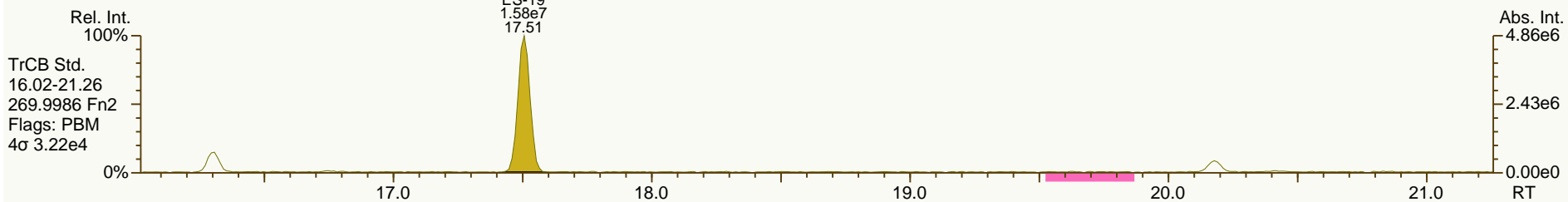
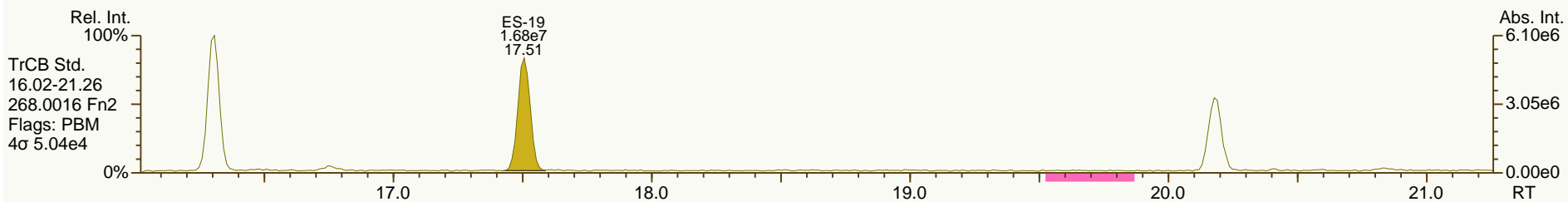
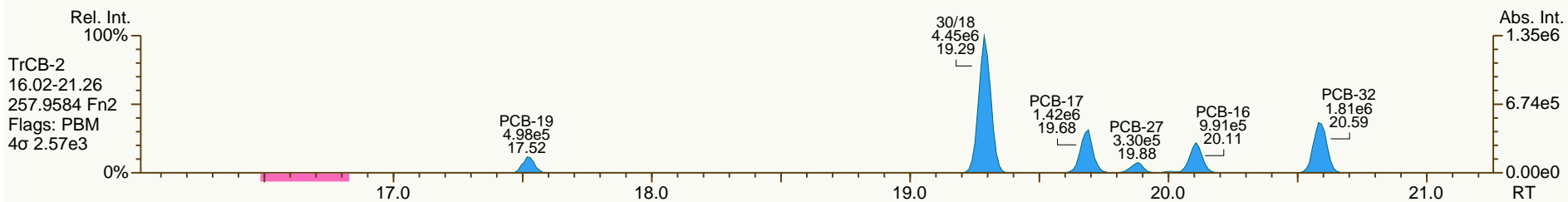
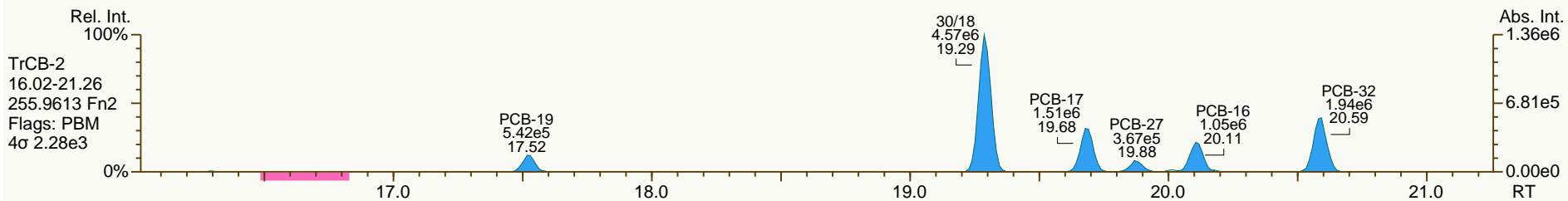
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SGS-AP ID: A6504\_11892\_PCB\_003  
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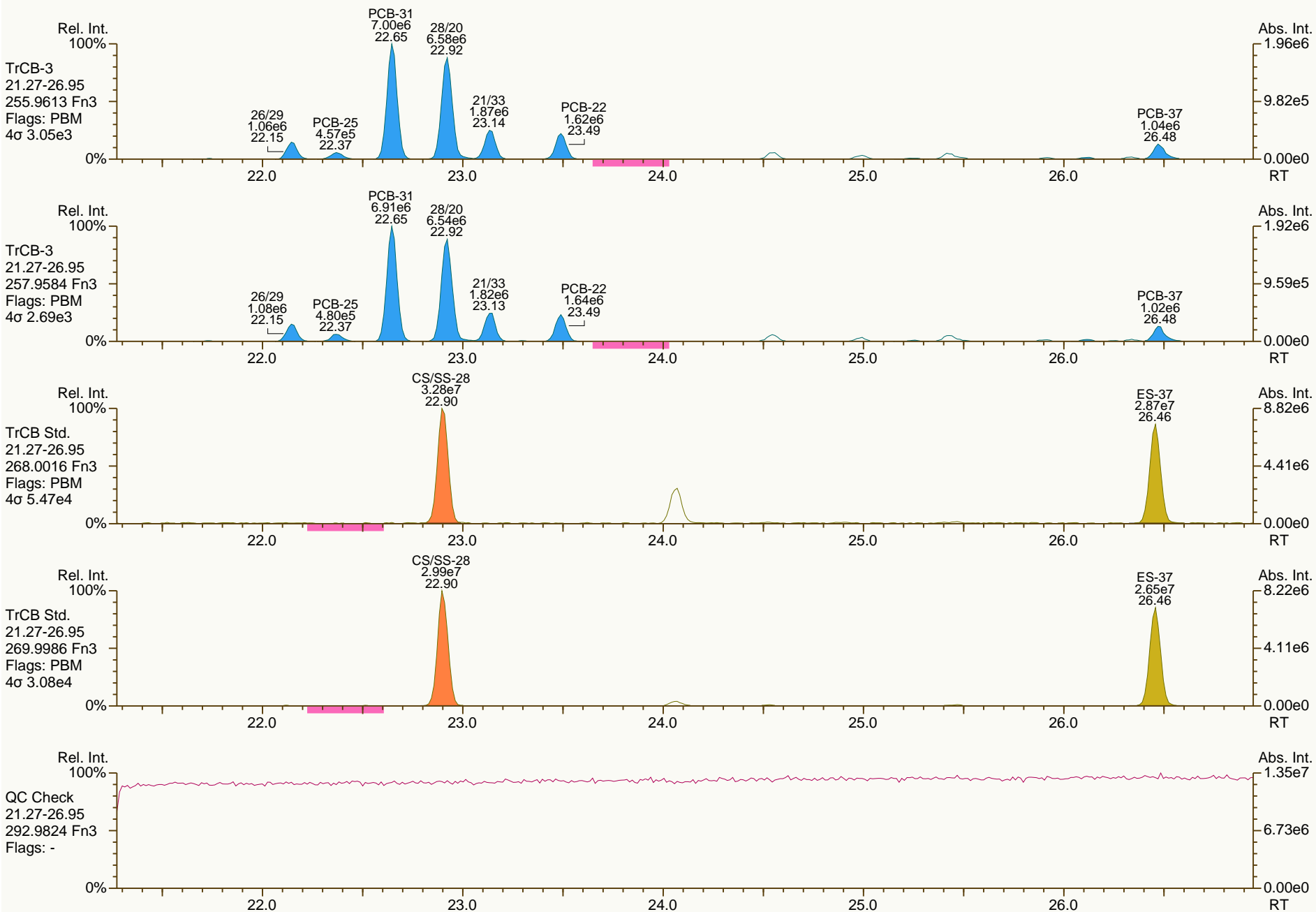
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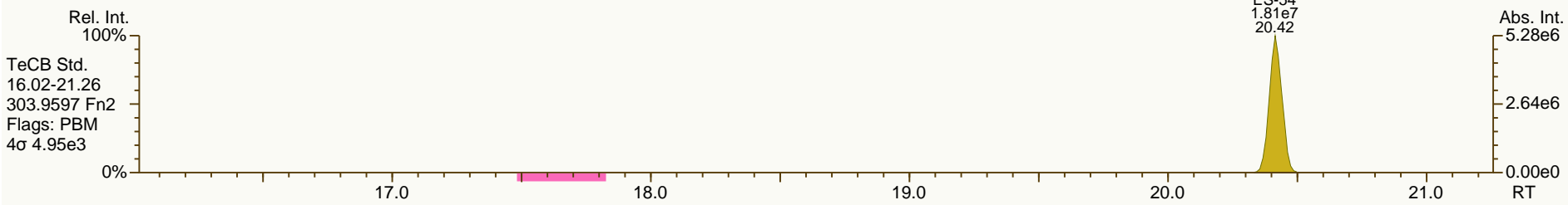
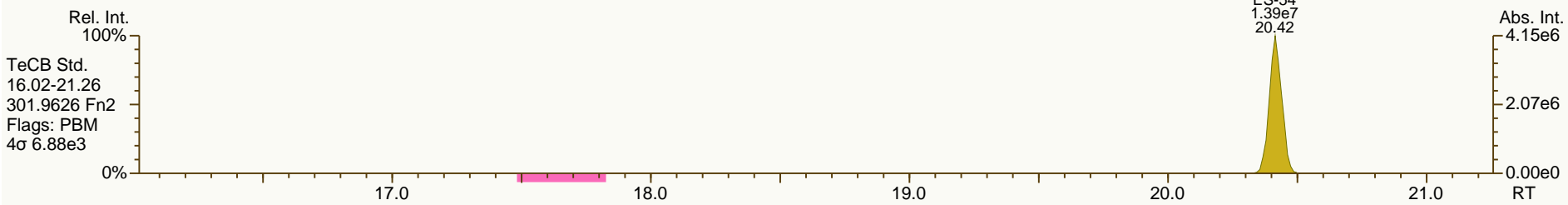
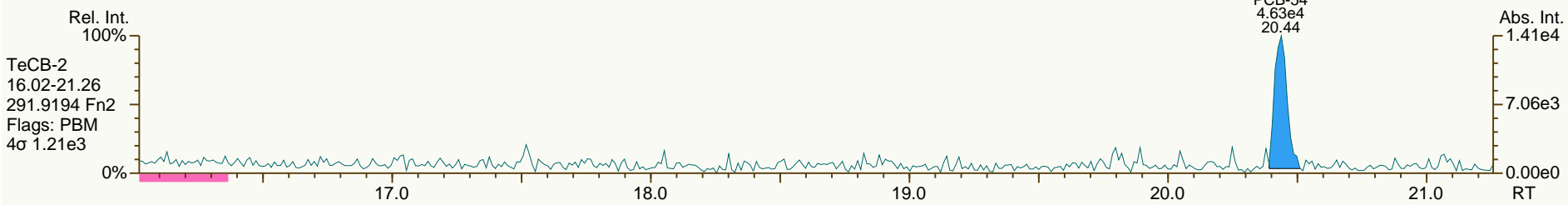
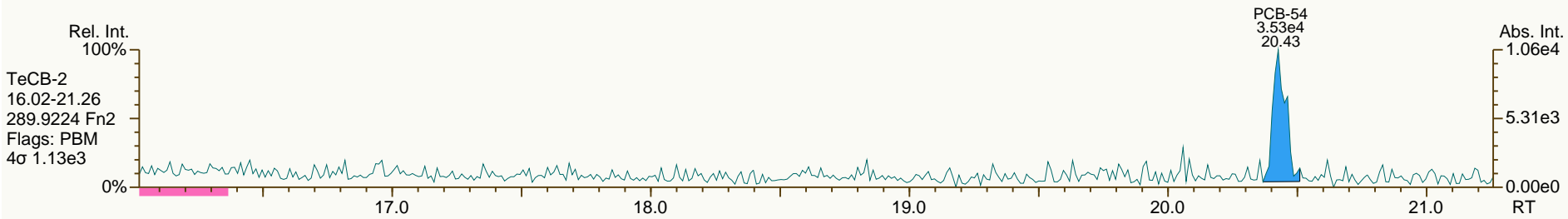
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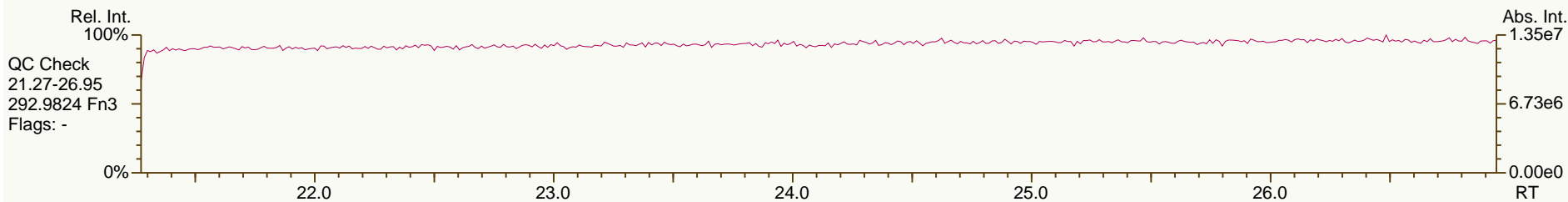
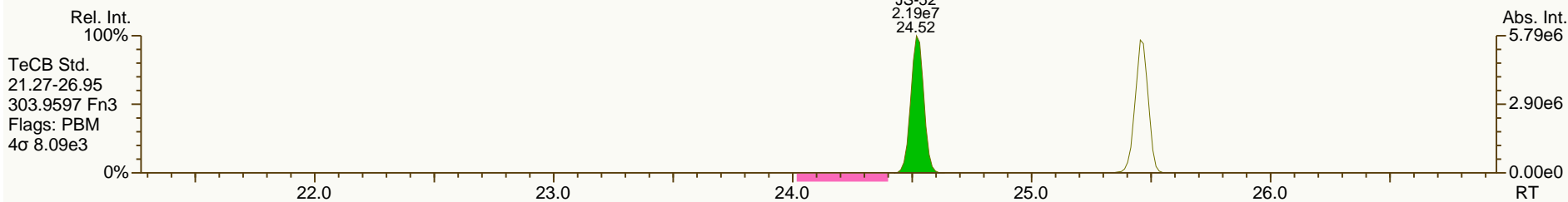
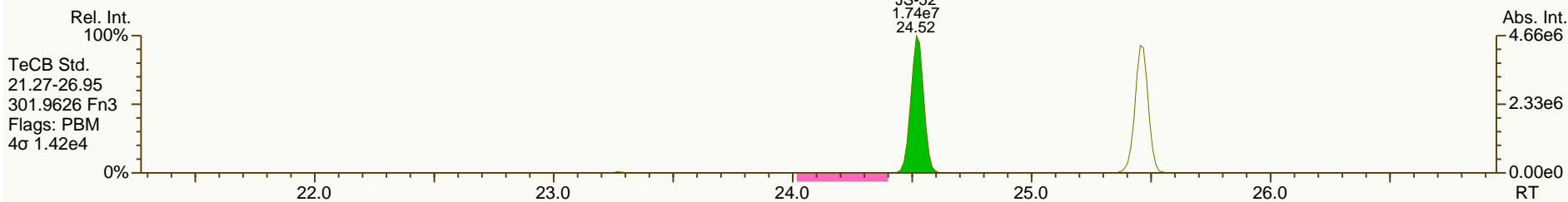
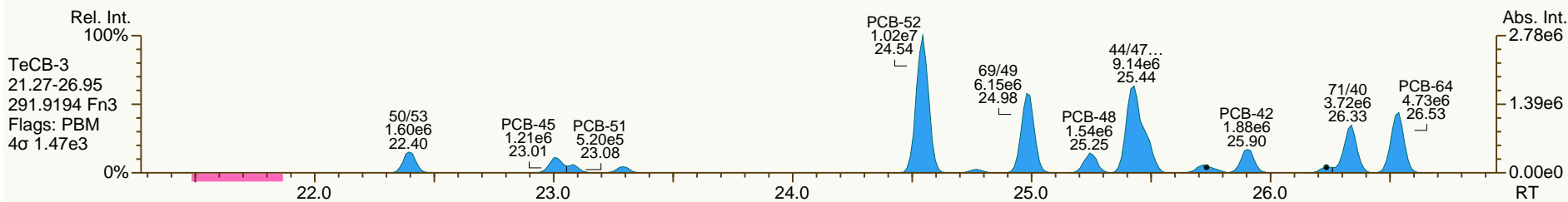
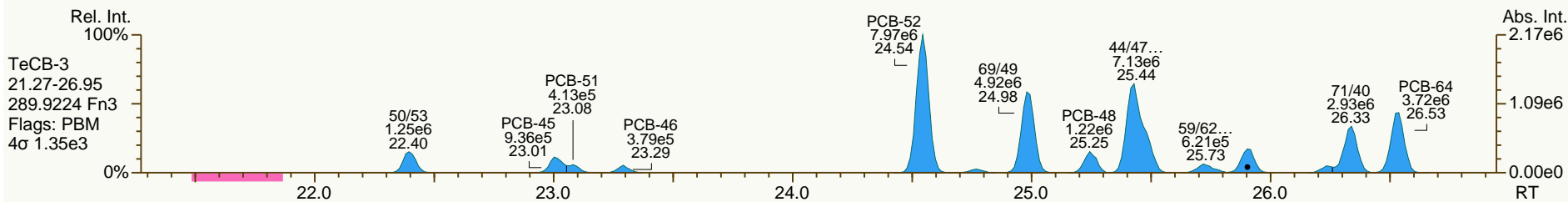




SGS-AP ID: A6504\_11892\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB047.3-1SWMID-140313-N (TOTAL)  
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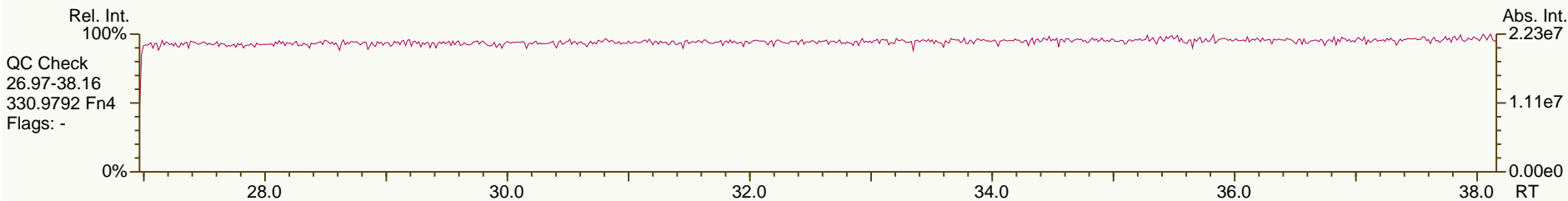
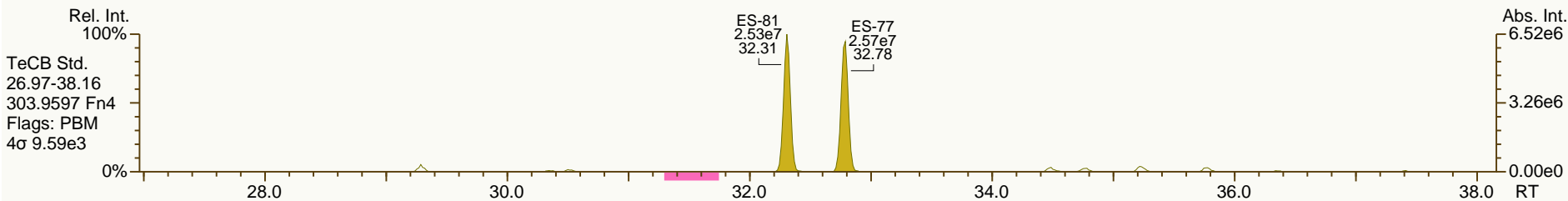
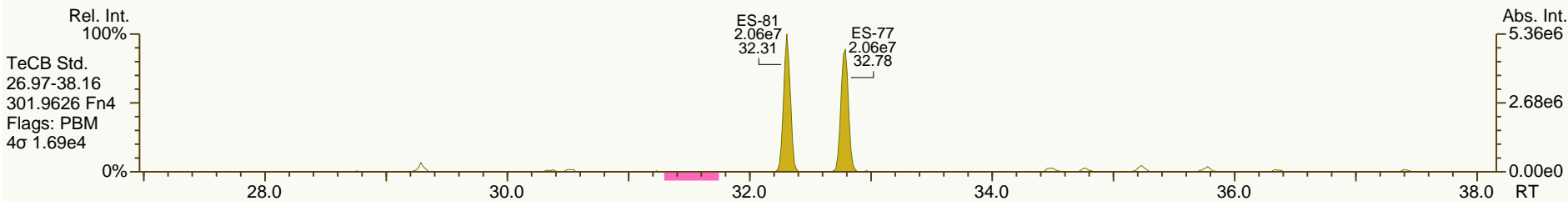
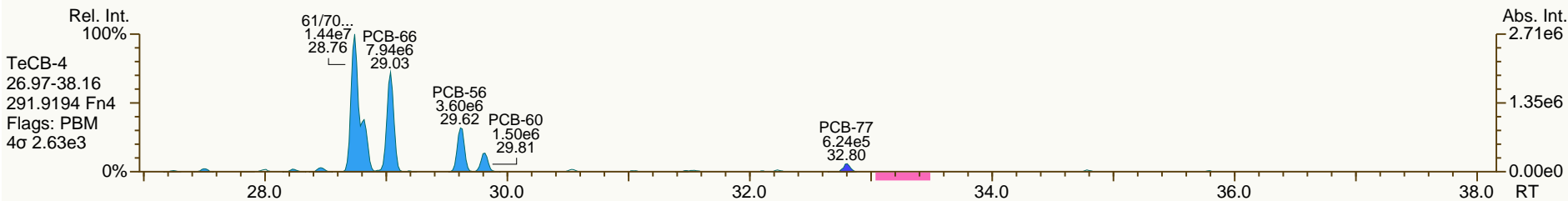
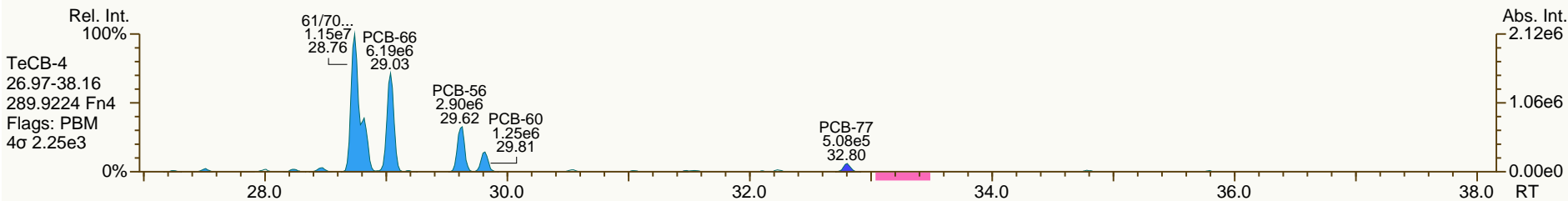
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SGS-AP ID: A6504\_11892\_PCB\_003  
 Instr: AutoSpec-Premier MM7

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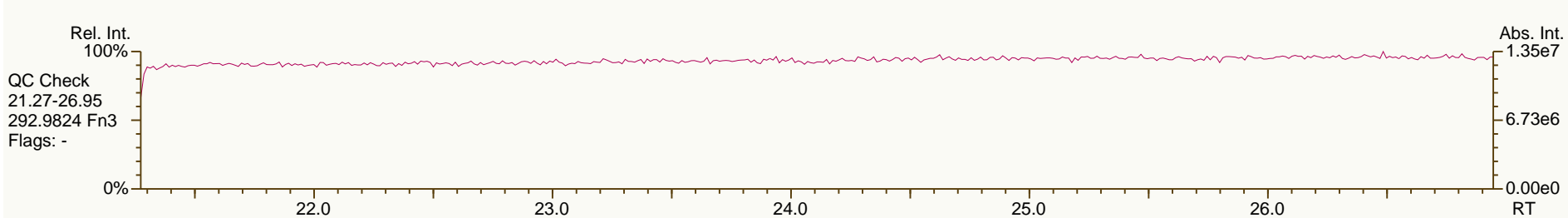
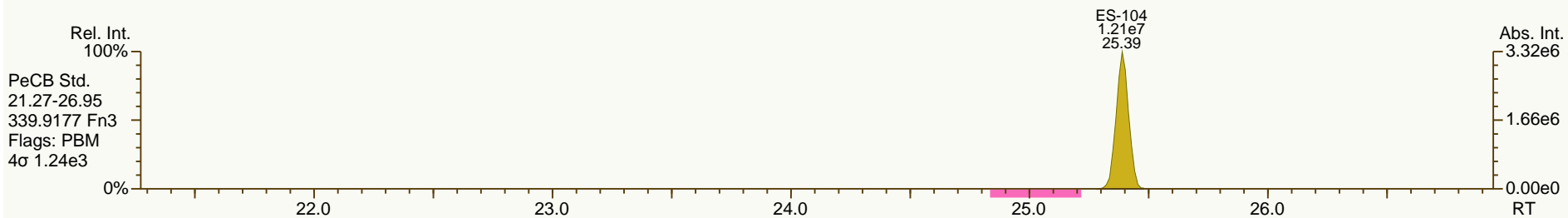
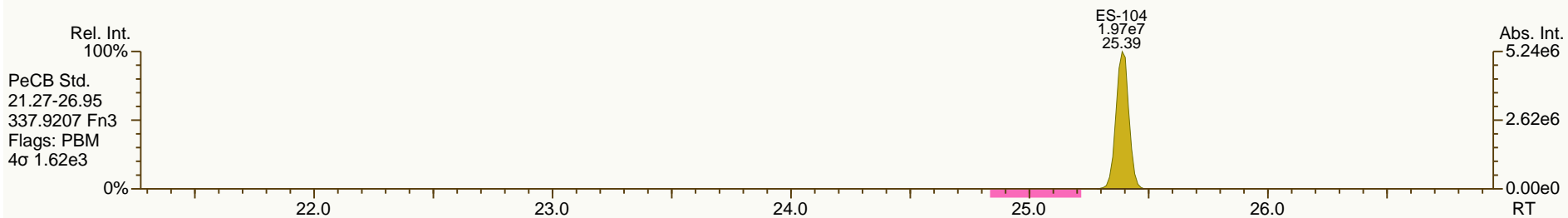
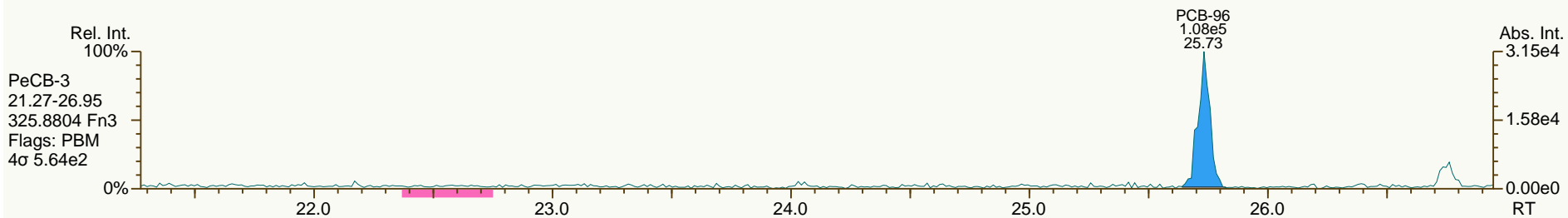
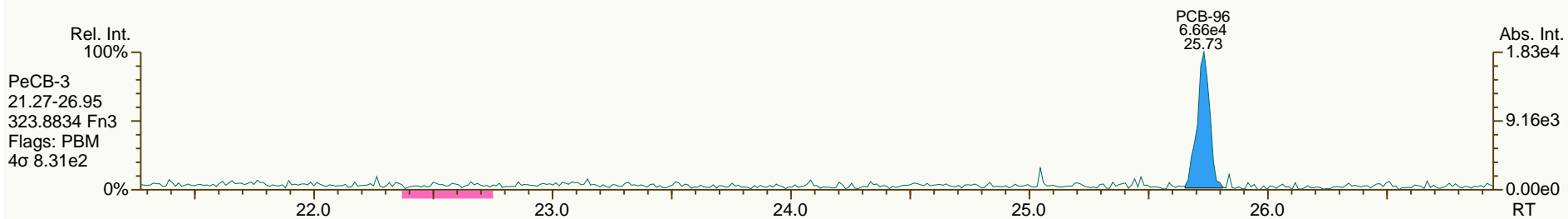
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SGS-AP ID: A6504\_11892\_PCB\_003  
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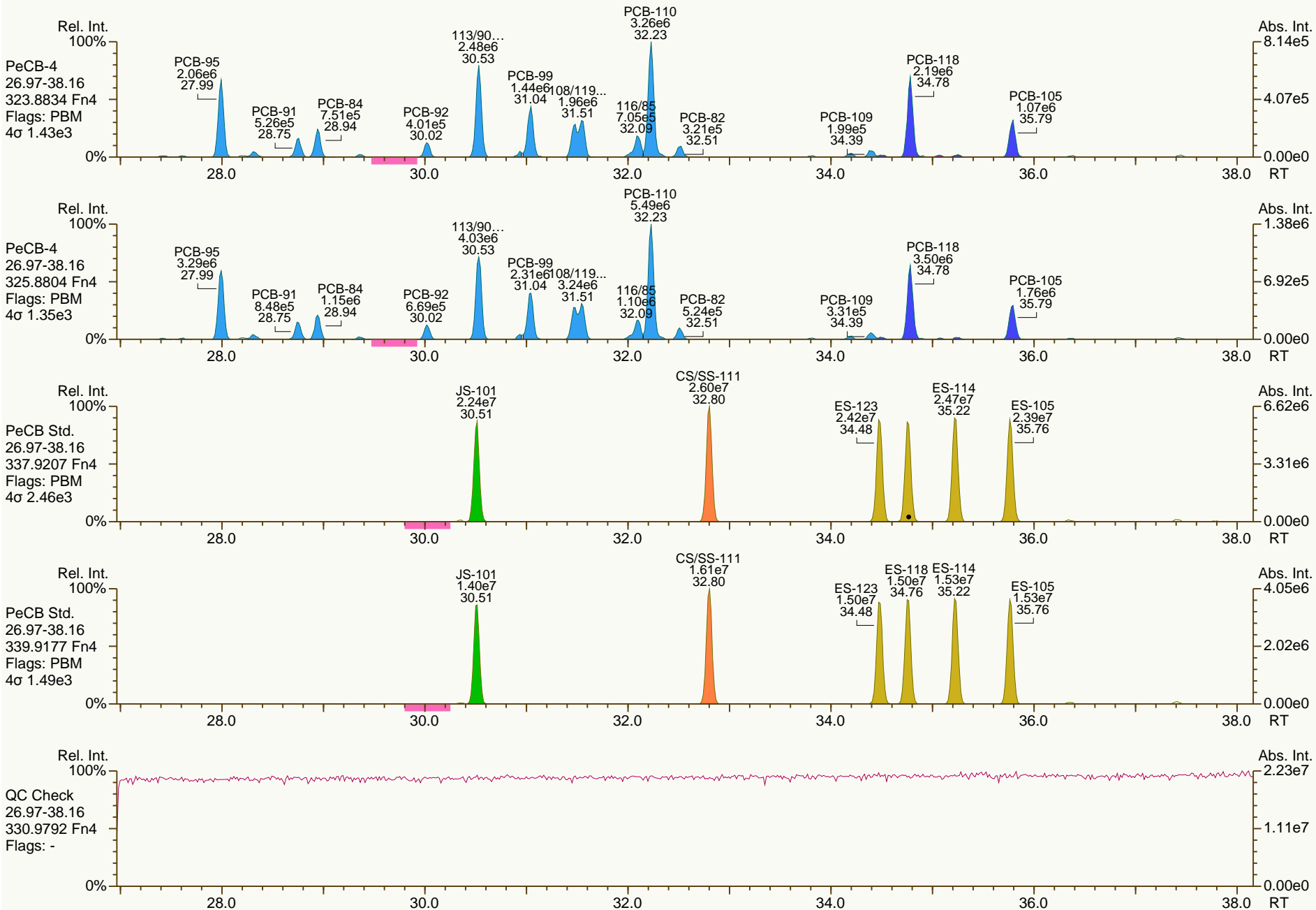
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SGS-AP ID: A6504\_11892\_PCB\_003  
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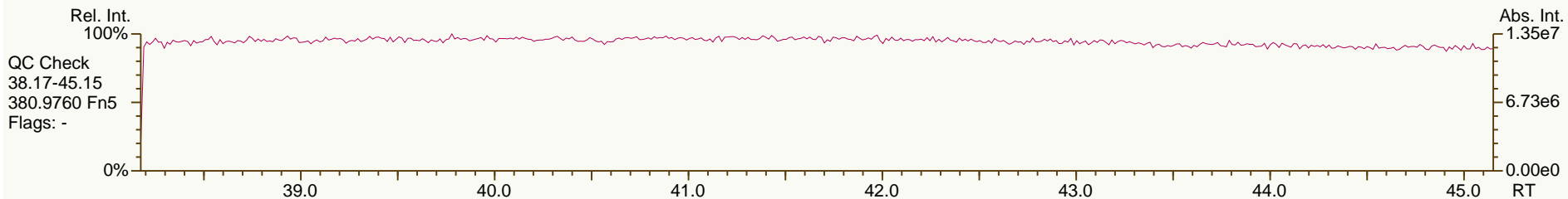
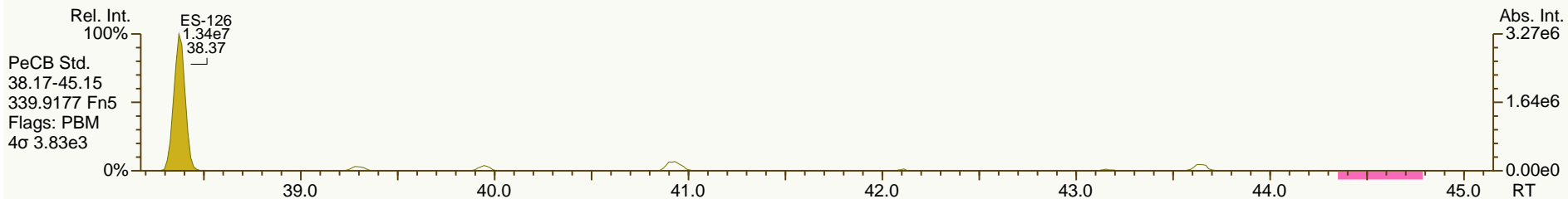
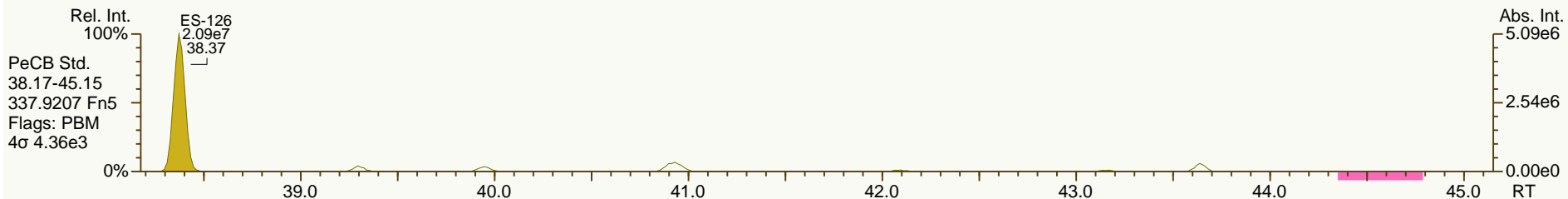
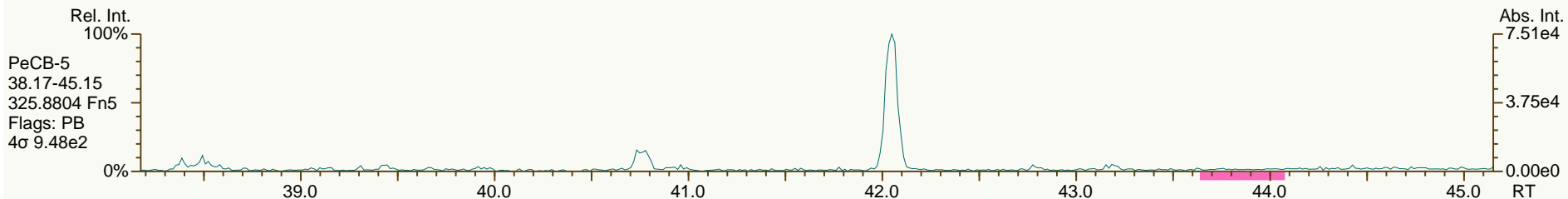
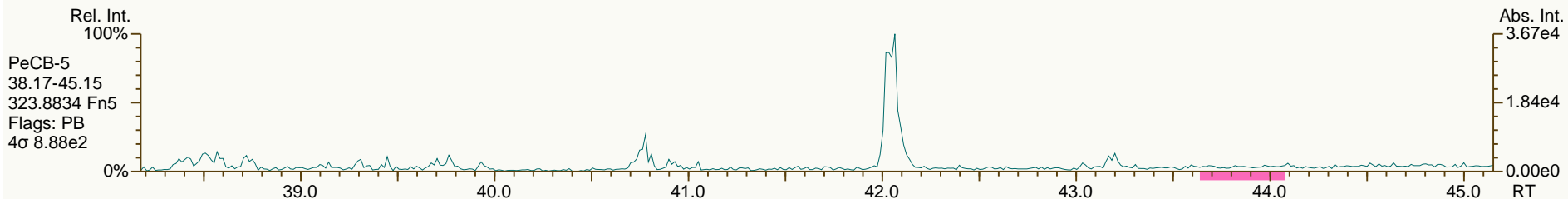
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SGS-AP ID: A6504\_11892\_PCB\_003  
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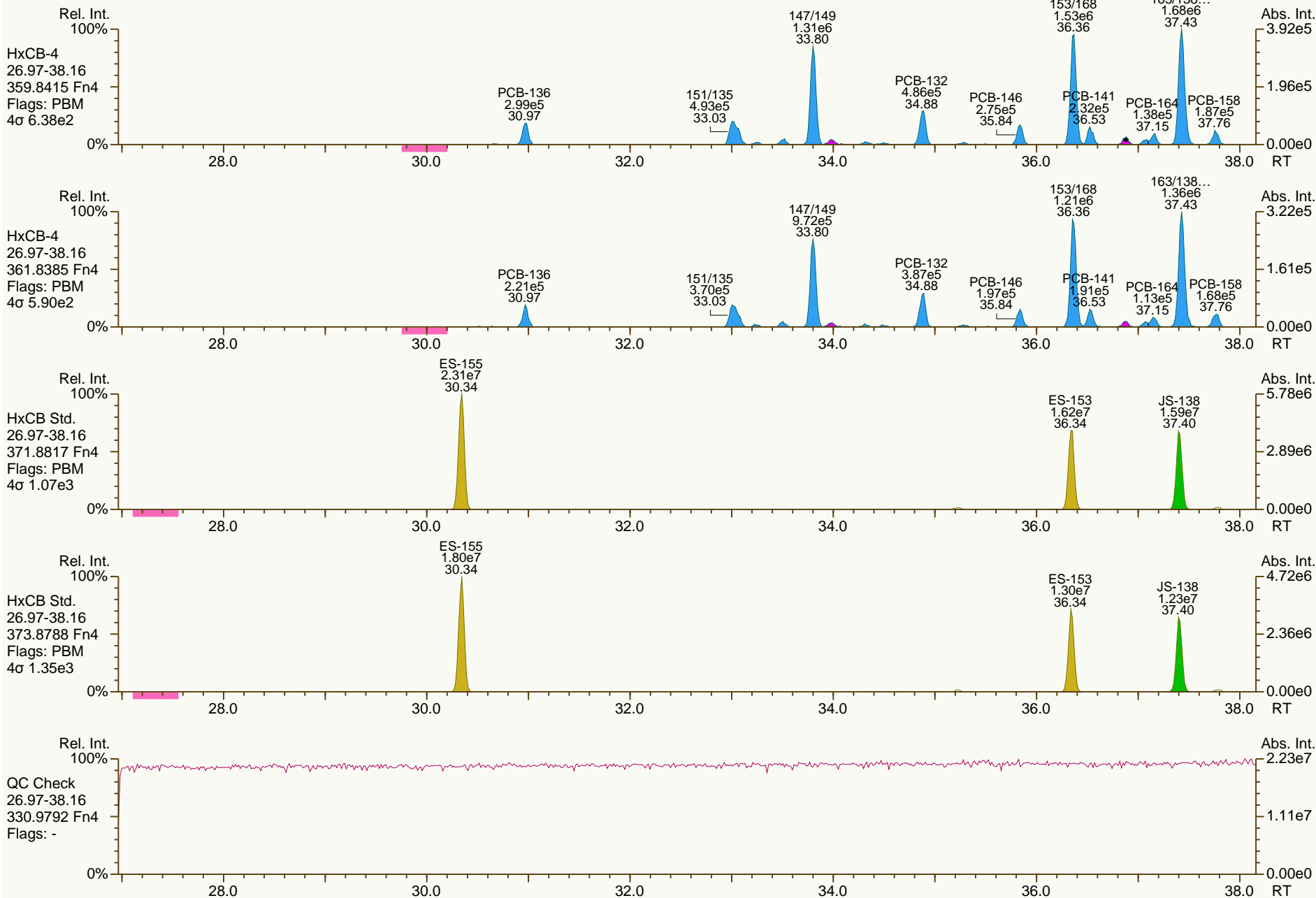
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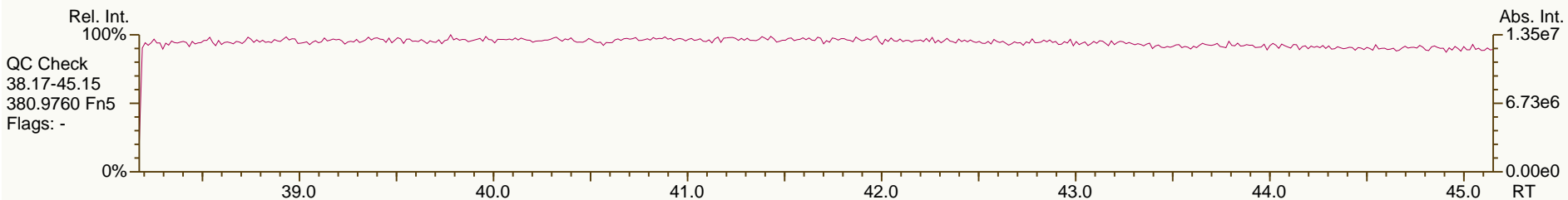
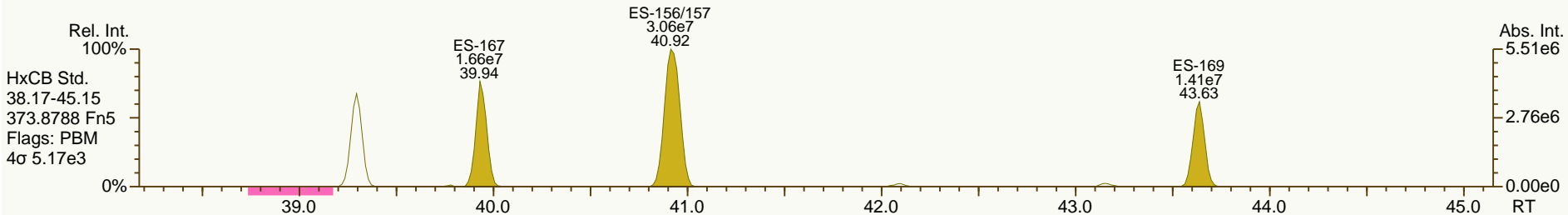
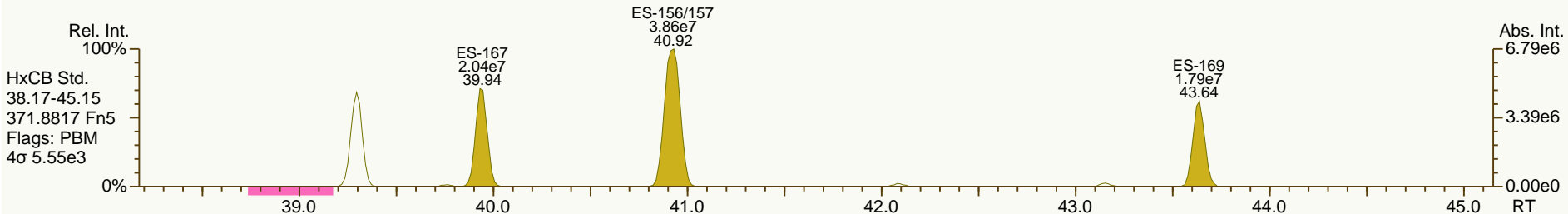
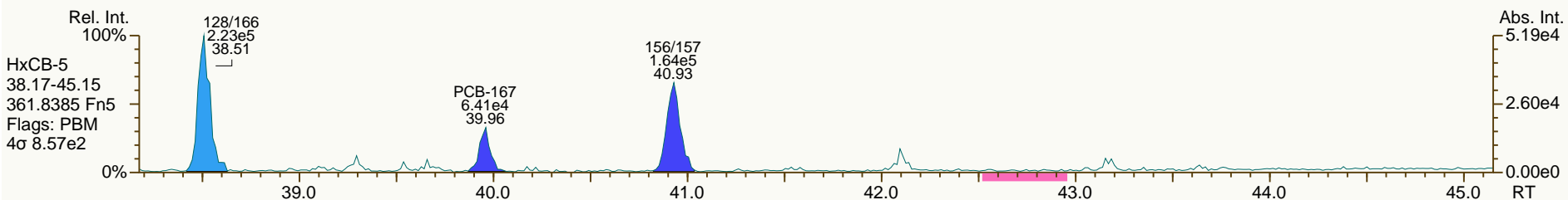
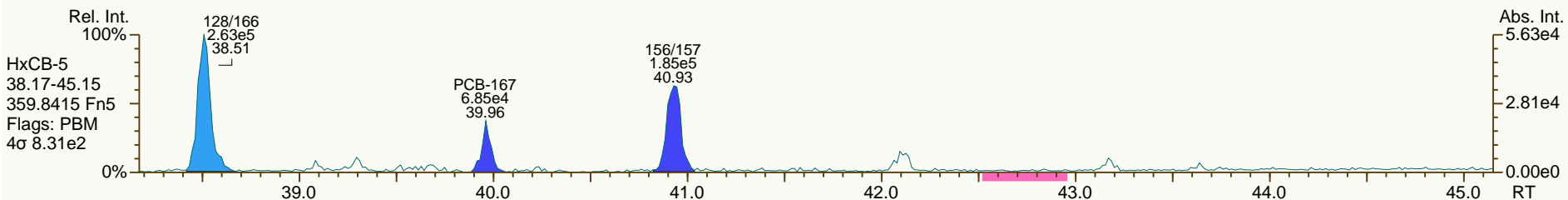
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Sample ID: PB047.3-1SWMID-140313-N (TOTAL)  
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SGS-AP ID: A6504\_11892\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB047.3-1SWMID-140313-N (TOTAL)  
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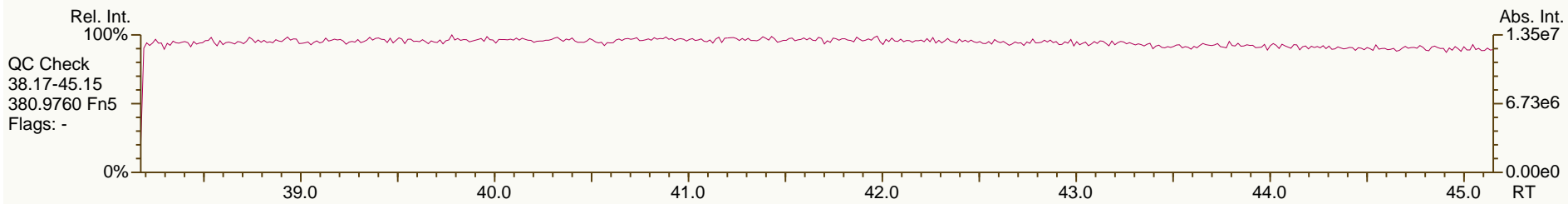
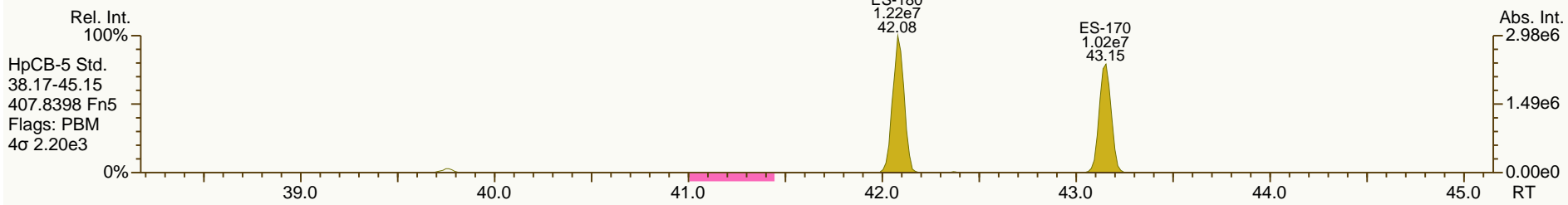
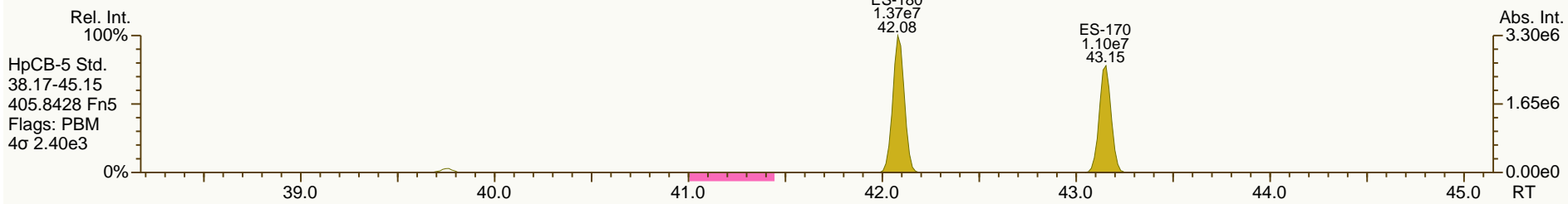
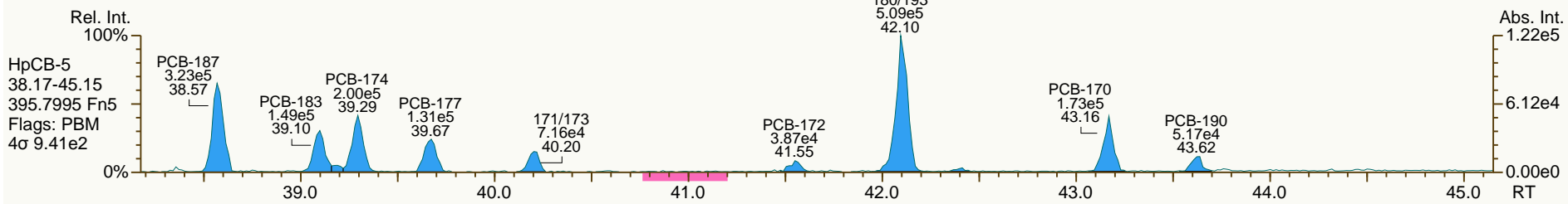
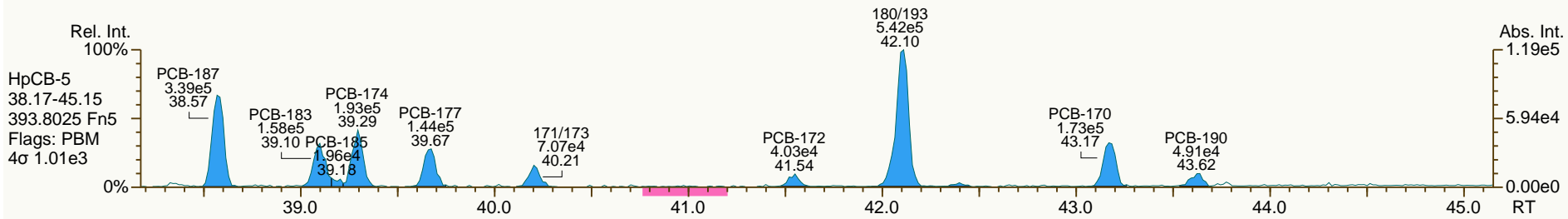




SGS-AP ID: A6504\_11892\_PCB\_003  
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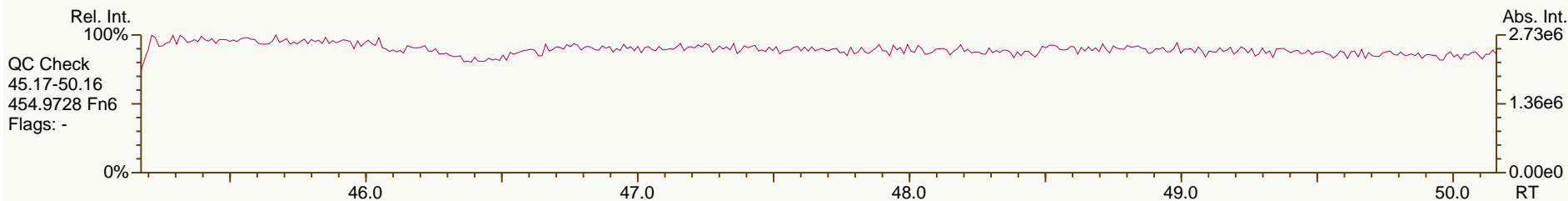
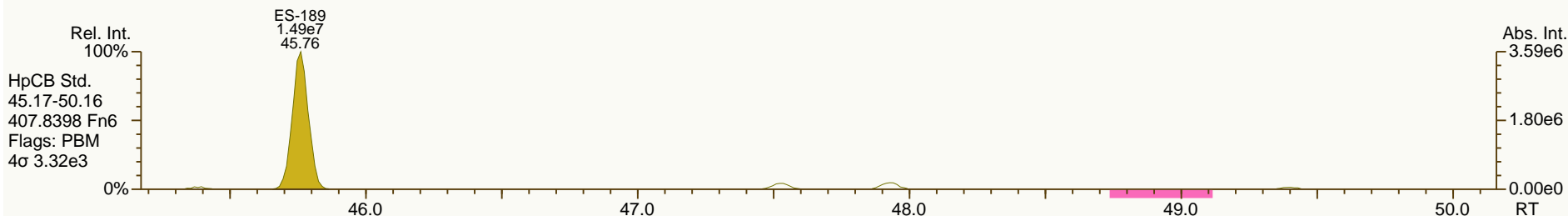
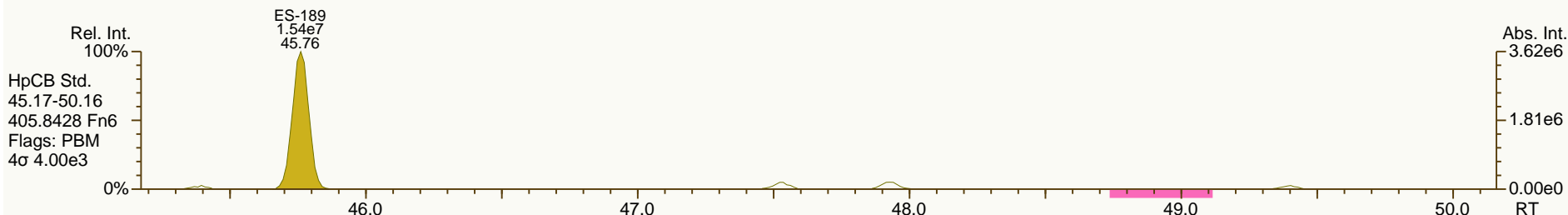
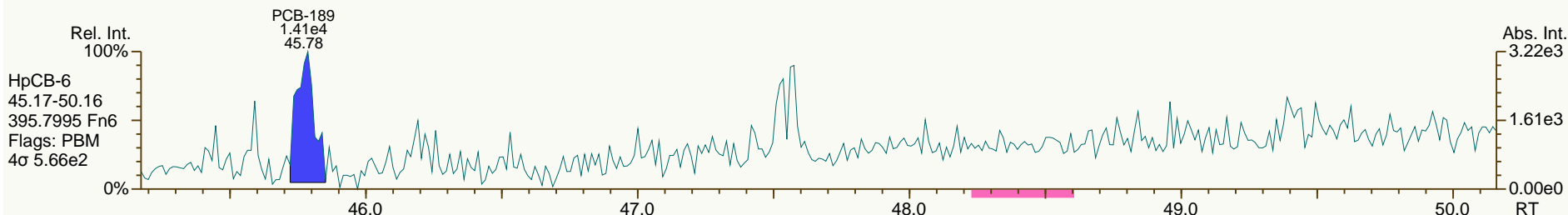
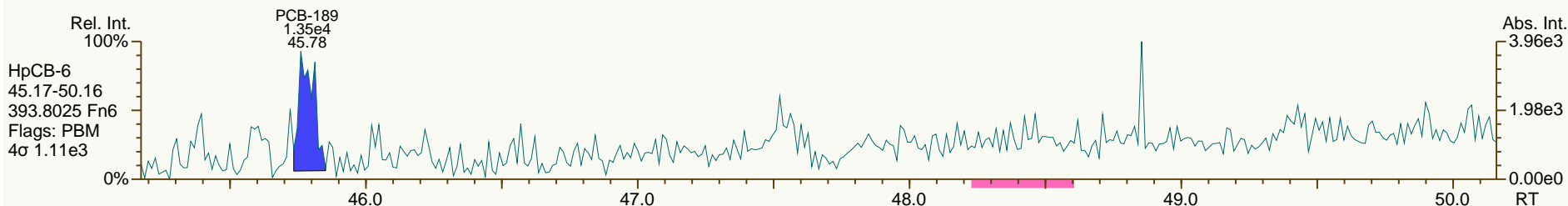
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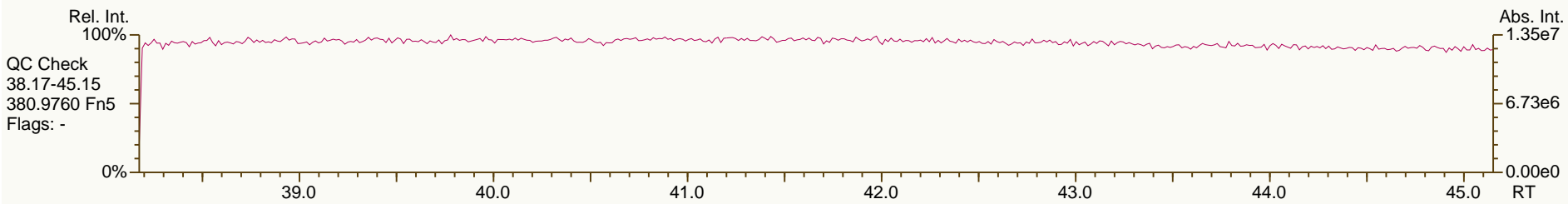
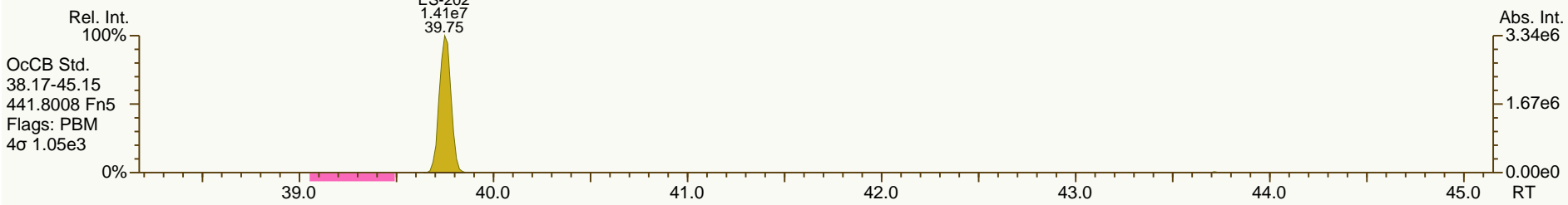
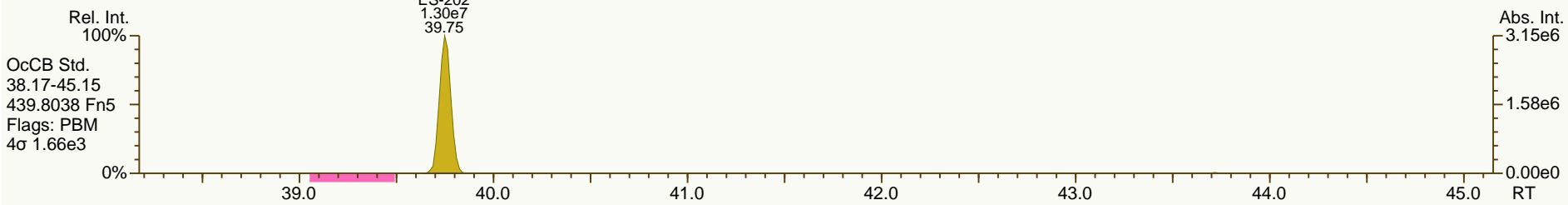
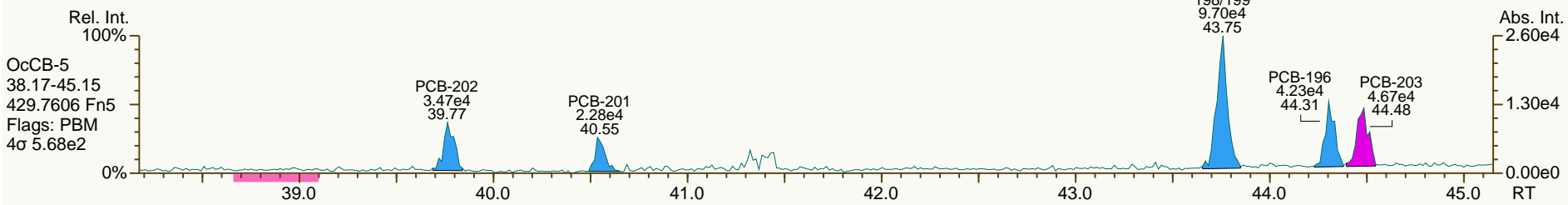
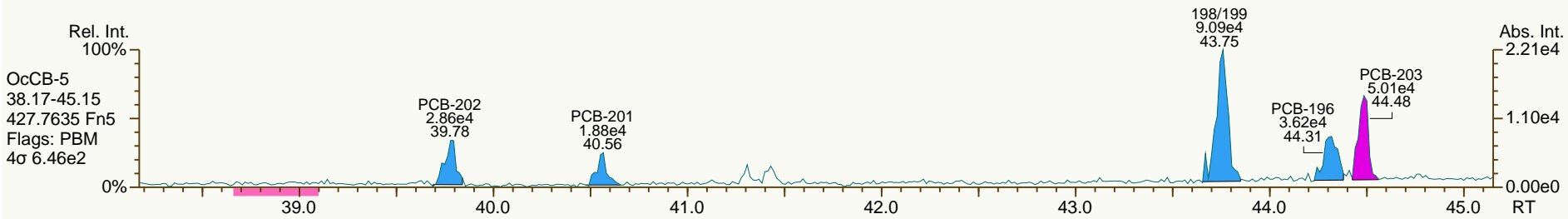
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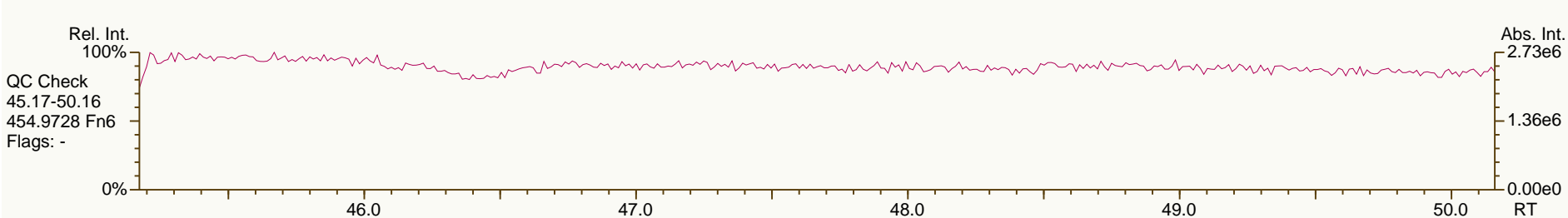
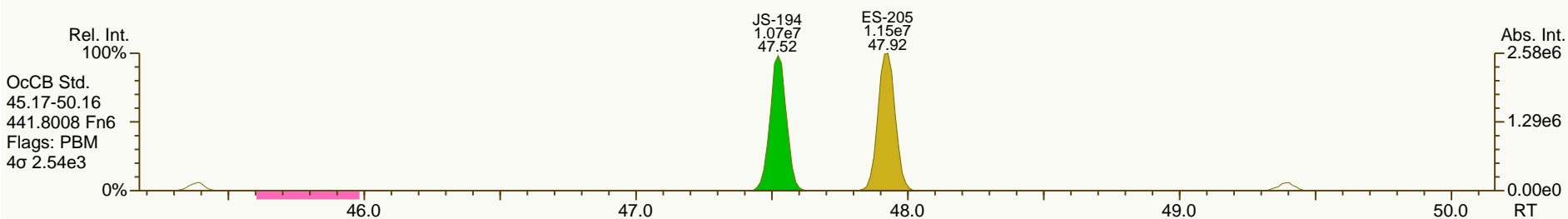
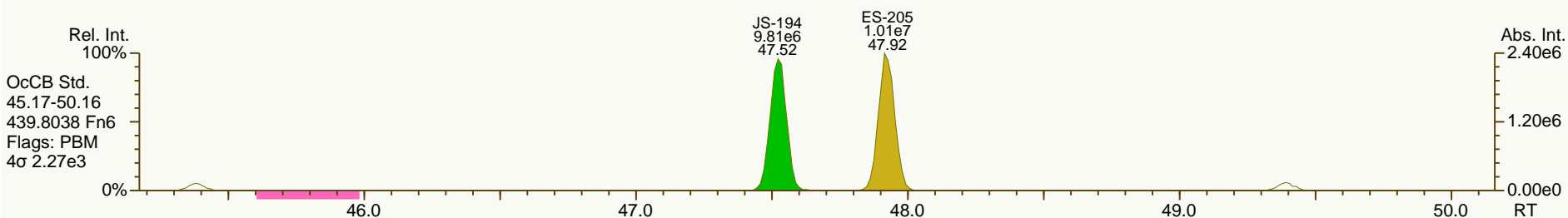
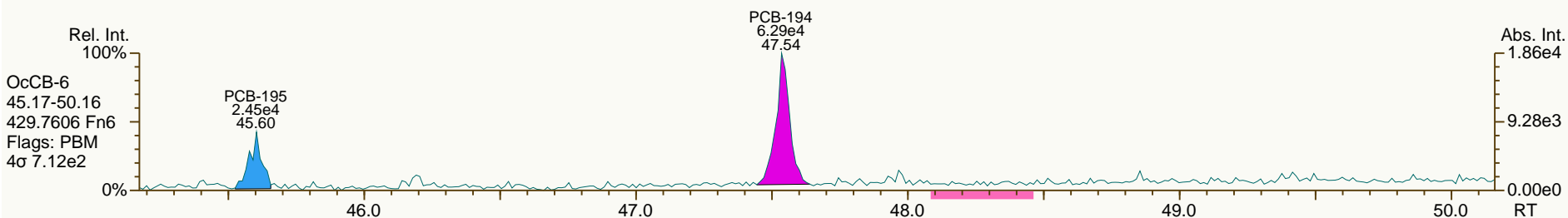
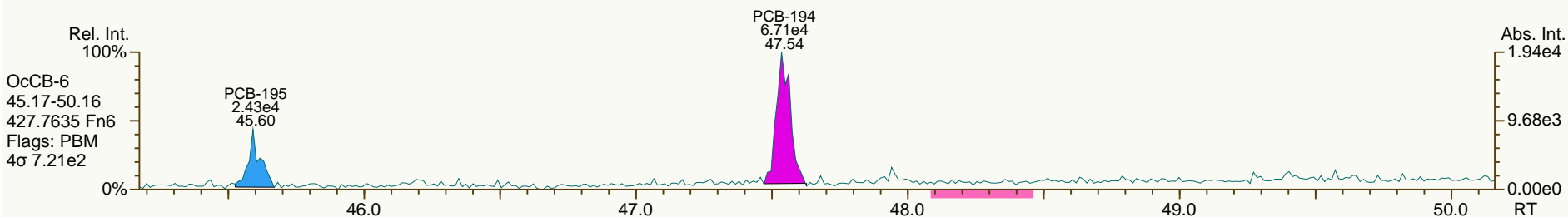
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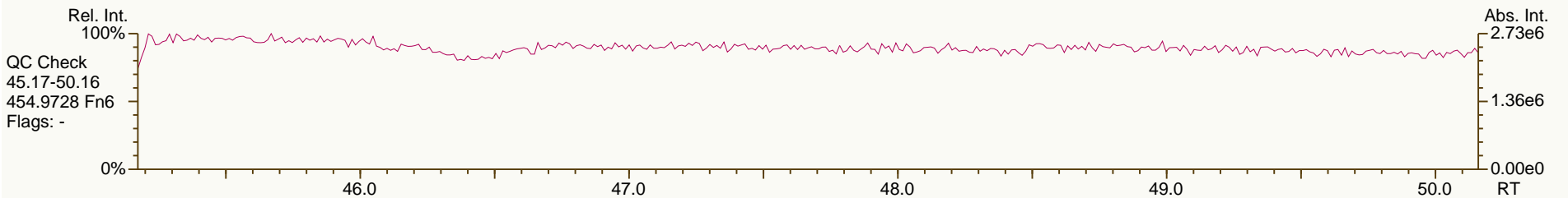
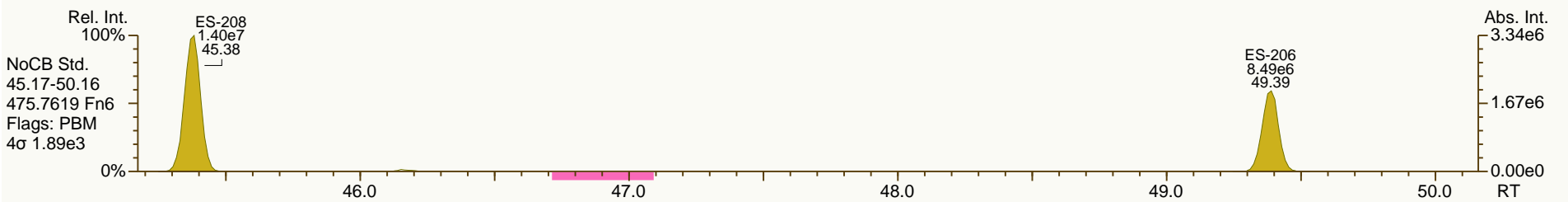
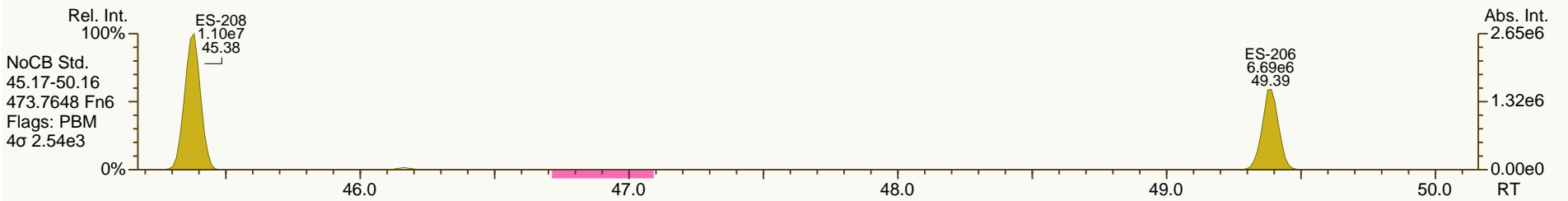
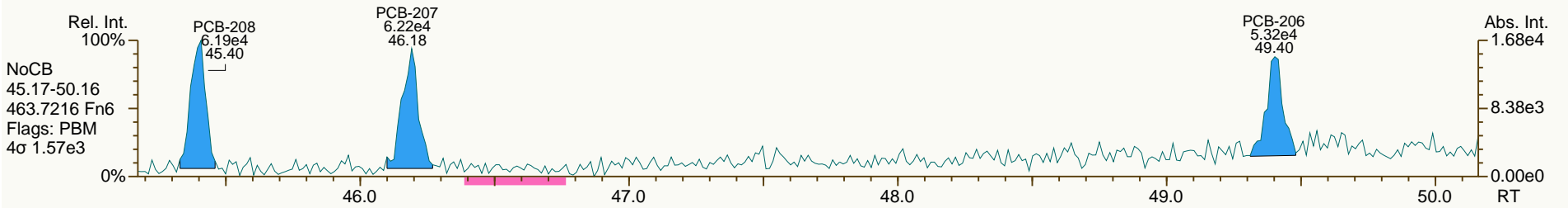
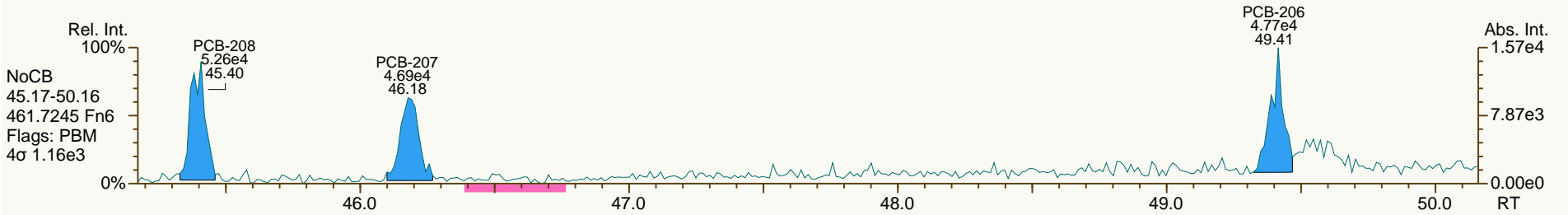
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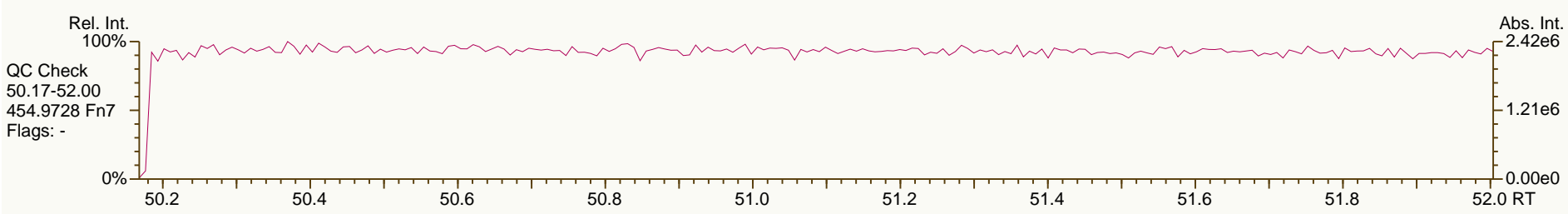
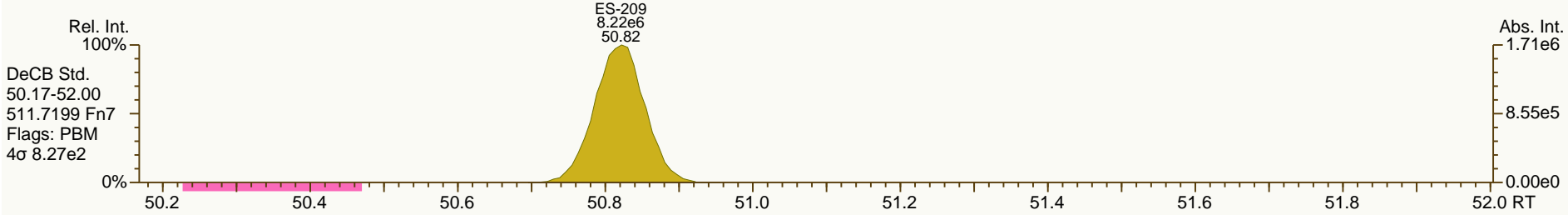
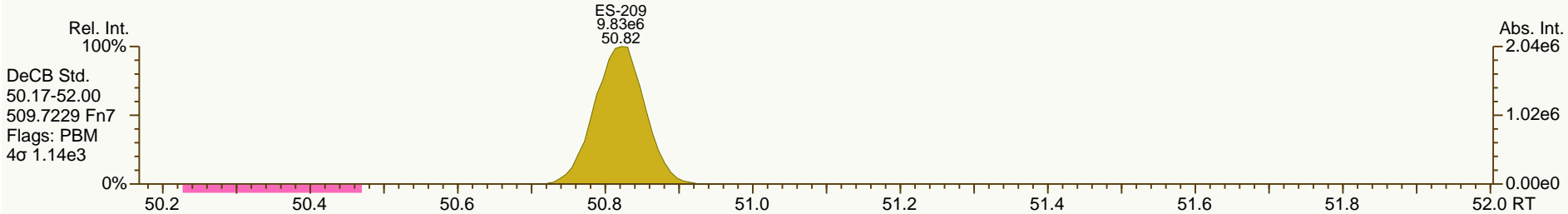
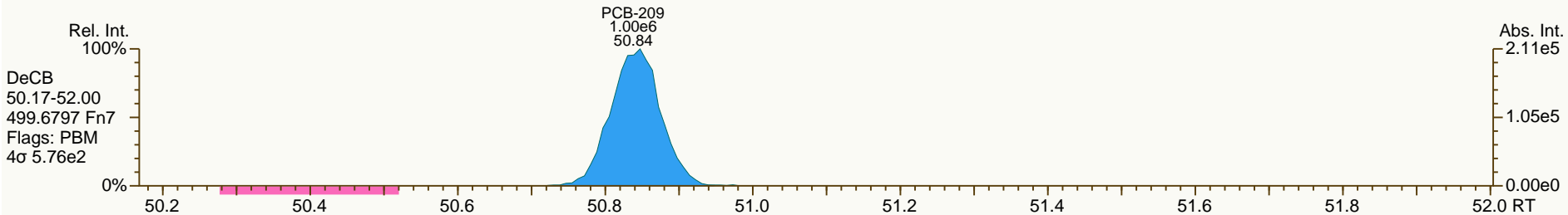
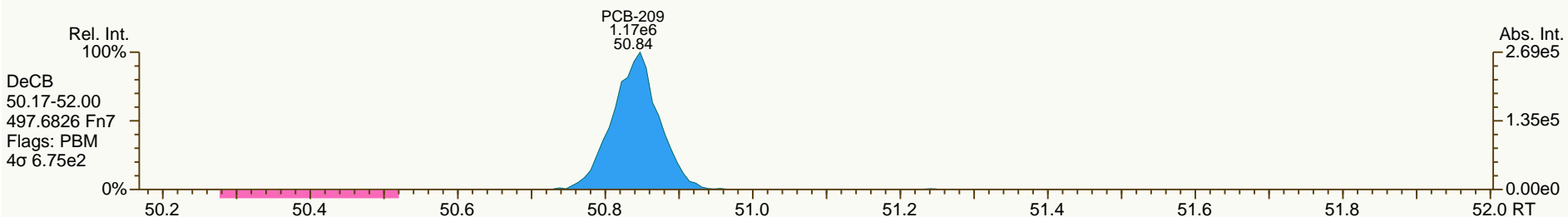
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SGS-AP ID: A6504\_11892\_PCB\_003  
 Instr: AutoSpec-Premier MM7

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Lab ID: A6504\_11892\_PCB\_004

ACQ: 27-Mar-2014 00:47:55 LKB

Wt/Vol: 0.97 L

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UTP: 31-Mar-2014 16:17 CEM

J-level: 10.4 pg/L Split: 1

Checkcode: 848-343-NKY

Datafile: 140326X12

RPT: 31-Mar-2014 18:58 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.82		1.0006	1.0006	0	9.92E+06	0.79	1.15	298	7.05E+03	2.23
PCB-81 344'5'-TeCB	32.34		1.0005	1.0006	+0.2	4.85E+05	0.79	1.12	15.4	7.05E+03	2.2
PCB-105 233'44'-PeCB	35.80		1.0007	1.0006	-0.2	2.66E+07	0.61	1.11	977	4.45E+03	1.66
PCB-114 2344'5'-PeCB	35.26		1.0006	1.0006	0	1.67E+06	0.61	1.20	56	4.45E+03	1.57
PCB-118 23'44'5'-PeCB	34.79		1.0006	1.0006	0	4.76E+07	0.61	1.19	1,660	4.45E+03	1.62
PCB-123 23'44'5'-PeCB	34.51		1.0007	1.0006	-0.2	1.44E+06	0.63	1.21	48.8	4.45E+03	1.55
PCB-126 33'44'5'-PeCB	38.41		1.0005	1.0004	-0.2	2.45E+05	0.60	1.11	10.7	3.09E+03	1.39
PCB-156/157 ...-HxCB	40.94	C	1.0005	1.0002	-0.7	2.51E+06	1.28	1.10	108	2.28E+03	1.34
PCB-167 23'44'55'-HxCB	39.97		1.0006	1.0005	-0.2	8.06E+05	1.17	1.16	31	2.28E+03	0.922
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.28E+03	1.11
PCB-189 233'44'55'-HpCB	45.80	J EMPC	1.0004	1.0005	+0.3	1.00E+05	1.25	1.07	5.03	1.89E+03	0.959
PCB-209 DeCB	50.86		1.0004	1.0004	0	6.70E+06	1.16	1.11	545	1.38E+03	1.29
ES PCB-1	11.89		0.7244	0.7246	+0.1	6.12E+07	3.28	1.19	56.8 %	15%	150%
ES PCB-3	14.18		0.8639	0.8640	+0.1	6.82E+07	3.35	1.09	69.5 %	15%	150%
ES PCB-4	14.43		0.8794	0.8794	0	3.93E+07	1.58	0.52	83.2 %	25%	150%
ES PCB-15	20.15		1.2273	1.2274	+0.1	9.24E+07	1.57	1.04	98.3 %	25%	150%
ES PCB-19	17.52		1.0673	1.0673	0	4.25E+07	1.07	0.51	93.1 %	25%	150%
ES PCB-37	26.47		1.0788	1.0789	+0.2	7.09E+07	1.09	1.66	87.8 %	25%	150%
ES PCB-54	20.43		0.8328	0.8327	-0.1	4.19E+07	0.75	0.86	100 %	25%	150%
ES PCB-77	32.80		1.3366	1.3367	+0.2	5.98E+07	0.80	1.38	89 %	25%	150%
ES PCB-81	32.32		1.3172	1.3173	+0.2	5.83E+07	0.79	1.37	87.8 %	25%	150%
ES PCB-104	25.40		0.8324	0.8323	-0.2	4.05E+07	1.64	0.80	111 %	25%	150%
ES PCB-105	35.78		1.1721	1.1722	+0.2	5.07E+07	1.57	1.20	93.2 %	25%	150%
ES PCB-114	35.24		1.1544	1.1545	+0.2	5.13E+07	1.61	1.22	93.1 %	25%	150%
ES PCB-118	34.77		1.1392	1.1392	0	5.00E+07	1.59	1.16	95.4 %	25%	150%
ES PCB-123	34.49		1.1300	1.1300	0	5.05E+07	1.58	1.19	94.1 %	25%	150%
ES PCB-126	38.39		1.2577	1.2577	0	4.28E+07	1.55	1.03	92.1 %	25%	150%
ES PCB-153	36.36		0.9716	0.9716	0	3.70E+07	1.31	1.11	94 %	25%	150%
ES PCB-155	30.36		0.8113	0.8113	0	5.21E+07	1.26	1.59	93.3 %	25%	150%
ES PCB-156/157	40.94		1.0940	1.0940	0	8.75E+07	1.26	1.60	77.8 %	25%	150%
ES PCB-167	39.95		1.0677	1.0677	0	4.63E+07	1.27	1.67	79 %	25%	150%
ES PCB-169	43.65		1.1666	1.1666	0	4.00E+07	1.27	1.56	73.1 %	25%	150%
ES PCB-170	43.16		0.9080	0.9080	0	2.67E+07	1.06	0.95	95.8 %	25%	150%
ES PCB-180	42.10		0.8855	0.8856	+0.3	3.27E+07	1.07	1.14	97.8 %	25%	150%
ES PCB-188	35.23		0.7411	0.7411	0	3.65E+07	1.05	0.94	110 %	25%	150%
ES PCB-189	45.77		0.9629	0.9629	0	3.85E+07	1.03	1.58	98.6 %	25%	150%
ES PCB-202	39.77		0.8365	0.8365	0	3.40E+07	0.90	0.97	99.7 %	25%	150%
ES PCB-205	47.94		1.0084	1.0084	0	2.74E+07	0.90	1.24	89.5 %	25%	150%
ES PCB-206	49.40		1.0392	1.0392	0	1.91E+07	0.80	0.83	93.3 %	25%	150%
ES PCB-208	45.39		0.9548	0.9548	0	3.12E+07	0.78	1.17	108 %	25%	150%
ES PCB-209	50.83		1.0694	1.0694	0	2.29E+07	1.18	1.11	83.6 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.92		0.9339	0.9339	0	7.83E+07	1.10	1.11	99.4 %	30%	135%
SS PCB-111	32.81		1.0750	1.0751	+0.2	5.13E+07	1.59	1.03	98.6 %	30%	135%
SS PCB-178	37.79		1.0100	1.0100	0	2.27E+07	1.09	0.62	101 %	30%	135%
CS PCB-28	22.92		0.9339	0.9339	0	7.83E+07	1.10	1.85	87.3 %	30%	135%
CS PCB-111	32.81		1.0750	1.0751	+0.2	5.13E+07	1.59	1.22	92.8 %	30%	135%
CS PCB-178	37.79		1.0100	1.0100	0	2.27E+07	1.09	0.58	111 %	30%	135%
JS PCB-9	16.41					9.04E+07	1.56				
JS PCB-52	24.54					4.86E+07	0.80				
JS PCB-101	30.52					4.53E+07	1.58				
JS PCB-138	37.42					3.52E+07	1.26				
JS PCB-194	47.54					2.46E+07	0.88				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	33.7	41.4	1.45		
						Di-CBs	747	747	1.92		
						Tri-CBs	10,400	10,400	1.74		
						Tetra-CBs	32,500	32,500	1.42		
						Penta-CBs	14,900	14,900	1.37		
						Hexa-CBs	3,730	3,780	0.944		
						Hepta-CBs	1,070	1,080	1.01		
						Octa-CBs	253	253	1.08		
						Nona-CBs	85.4	85.4	2.64		
PCB-1 2-MoCB	11.91		1.0011	1.0011	0	9.49E+05	3.39	0.95	33.7	6.59E+03	1.41
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	6.59E+03	1.36
PCB-3 4-MoCB	14.19	J EMPC	1.0010	1.0002	-0.7	2.57E+05	5.33	1.01	7.73	6.59E+03	1.5
PCB-4 22'-DiCB	14.45		1.0011	1.0011	0	5.10E+06	1.56	1.23	218	6.77E+03	2.15
PCB-10 26'-DiCB	14.63	J	1.0135	1.0135	0	2.99E+05	1.64	1.92	8.21	6.77E+03	1.38
PCB-9 25'-DiCB	16.43		1.0010	1.0010	0	6.19E+05	1.66	0.96	14.5	8.57E+03	1.8
PCB-7 24'-DiCB	16.60	J	1.0111	1.0110	-0.1	2.89E+05	SI	1.10	5.88	8.57E+03	1.57
PCB-6 23'-DiCB	16.82		1.0249	1.0249	0	2.45E+06	1.62	1.01	54.3	8.57E+03	1.7
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	8.57E+03	1.71
PCB-8 24'-DiCB	17.25		1.0505	1.0506	+0.1	1.10E+07	1.65	1.06	233	8.57E+03	1.62
PCB-14 35'-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	8.57E+03	1.42
PCB-11 33'-DiCB	19.58	B	0.9721	0.9721	0	1.47E+06	1.65	1.06	30.9	8.57E+03	1.62
PCB-13/12 34' /34'-DiCB	19.86	C	0.9866	0.9856	-1.2	1.05E+06	1.63	1.05	22.4	8.57E+03	1.64
PCB-15 44'-DiCB	20.16		1.0008	1.0006	-0.2	7.27E+06	1.62	1.02	160	8.57E+03	1.69
PCB-19 22'6-TrCB	17.54		1.0010	1.0010	0	3.66E+06	1.03	1.15	155	5.34E+03	1.89
PCB-30/18 246/22'5-TrCB	19.30	C	1.1015	1.1019	+0.5	5.68E+07	1.05	1.54	1,790	5.34E+03	1.41
PCB-17 22'4-TrCB	19.70		1.1244	1.1244	0	1.69E+07	1.05	1.32	625	5.34E+03	1.65
PCB-27 23'6-TrCB	19.89		1.1354	1.1354	0	3.64E+06	1.03	1.79	98.7	5.34E+03	1.21
PCB-24 236-TrCB	20.02		1.1430	1.1427	-0.4	4.03E+05	0.99	1.72	11.4	5.34E+03	1.26
PCB-16 22'3-TrCB	20.12		1.1485	1.1486	+0.1	1.25E+07	1.04	0.98	623	5.34E+03	2.21



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.60		1.1759	1.1760	+0.1	2.21E+07	1.05	1.92	559	5.34E+03	1.13
PCB-34 23'5'-TrCB	21.75	J	0.8218	0.8216	-0.3	3.72E+05	1.06	1.23	8.85	6.12E+03	1.39
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	6.12E+03	1.37
PCB-26/29 23'5'/245-TrCB	22.16	C	0.8382	0.8372	-1.3	1.42E+07	1.02	1.27	327	6.12E+03	1.35
PCB-25 23'4-TrCB	22.39		0.8457	0.8457	0	5.81E+06	1.02	1.27	133	6.12E+03	1.34
PCB-31 24'5-TrCB	22.66		0.8562	0.8561	-0.1	9.86E+07	1.00	1.33	2,170	6.12E+03	1.29
PCB-28/20 244'/233'-TrCB	22.94	C	0.8669	0.8665	-0.6	8.99E+07	1.01	1.23	2,130	6.12E+03	1.39
PCB-21/33 234/23'4'-TrCB	23.15	C	0.8738	0.8745	+1.0	3.04E+07	1.00	1.27	702	6.12E+03	1.35
PCB-22 234'-TrCB	23.50		0.8879	0.8879	0	2.41E+07	1.00	1.18	594	6.12E+03	1.45
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	6.12E+03	1.32
PCB-39 34'5-TrCB	25.25		0.9522	0.9540	+2.7	1.20E+06	1.02	1.34	26	6.12E+03	1.28
PCB-38 345-TrCB	25.75	J	0.9723	0.9729	+0.9	2.85E+05	1.01	1.22	6.85	6.12E+03	1.41
PCB-35 33'4-TrCB	26.13		0.9871	0.9870	-0.2	1.56E+06	1.02	1.17	39	6.12E+03	1.47
PCB-37 344'-TrCB	26.49		1.0007	1.0009	+0.3	1.65E+07	1.01	1.08	447	6.12E+03	1.59
PCB-54 22'66'-TeCB	20.45	J	1.0010	1.0010	0	2.69E+05	0.79	1.35	9.82	2.12E+03	0.678
PCB-50/53 22'46/22'56'-TeCB	22.41	C	0.9145	0.9134	-1.5	1.76E+07	0.80	0.91	690	2.56E+03	0.987
PCB-45 22'36-TeCB	23.03		0.9385	0.9385	0	1.53E+07	0.79	0.82	661	2.56E+03	1.09
PCB-51 22'46'-TeCB	23.10		0.9414	0.9416	+0.3	4.12E+06	0.80	0.88	167	2.56E+03	1.02
PCB-46 22'36'-TeCB	23.31		0.9499	0.9498	-0.1	5.19E+06	0.80	0.73	251	2.56E+03	1.22
PCB-52 22'55'-TeCB	24.56		1.0009	1.0009	0	1.22E+08	0.79	0.89	4,870	2.56E+03	1
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.56E+03	0.761
PCB-43 22'35-TeCB	24.77		1.0100	1.0097	-0.4	3.66E+06	0.78	0.76	170	2.56E+03	1.17
PCB-69/49 23'46/22'45'-TeCB	25.00	C	1.0181	1.0189	+1.2	7.66E+07	0.79	1.09	2,500	2.56E+03	0.821
PCB-48 22'45-TeCB	25.26		1.0296	1.0295	-0.2	2.12E+07	0.78	0.89	846	2.56E+03	1
PCB-44/47/65 ...-TeCB	25.45	C	1.0384	1.0374	-1.5	1.10E+08	0.79	0.95	4,100	2.56E+03	0.944
PCB-59/62/75 ...-TeCB	25.74	C	1.0497	1.0492	-0.8	1.04E+07	0.78	1.24	298	2.56E+03	0.72
PCB-42 22'34'-TeCB	25.92		1.0563	1.0564	+0.2	2.42E+07	0.79	0.82	1,050	2.56E+03	1.1
PCB-41 22'34-TeCB	26.25		1.0700	1.0699	-0.2	7.44E+06	0.77	0.75	353	2.56E+03	1.2
PCB-71/40 23'4'6/22'33'-TeCB	26.35	C	1.0738	1.0739	+0.2	4.70E+07	0.79	0.91	1,840	2.56E+03	0.987
PCB-64 234'6-TeCB	26.55		1.0819	1.0819	0	6.26E+07	0.79	1.31	1,690	2.56E+03	0.682
PCB-72 23'55'-TeCB	27.26		0.8435	0.8435	0	8.07E+05	0.83	1.27	22.6	7.05E+03	1.94
PCB-68 23'45'-TeCB	27.52		0.8514	0.8514	0	1.14E+06	0.75	1.32	30.5	7.05E+03	1.86
PCB-57 233'5-TeCB	27.89		0.8630	0.8628	-0.3	4.66E+05	0.79	1.21	13.7	7.05E+03	2.04
PCB-58 233'5'-TeCB	28.11	J EMPC	0.8692	0.8696	+0.7	1.61E+05	0.93	1.22	4.67	7.05E+03	2.02
PCB-67 23'45-TeCB	28.25		0.8741	0.8741	0	2.96E+06	0.78	1.29	81.2	7.05E+03	1.91
PCB-63 234'5-TeCB	28.48		0.8811	0.8811	0	4.77E+06	0.82	1.36	125	7.05E+03	1.81
PCB-61/70/74/76 ...-TeCB	28.78	C	0.8901	0.8903	+0.3	2.14E+08	0.79	1.22	6,230	7.05E+03	2.02
PCB-66 23'44'-TeCB	29.05		0.8988	0.8988	0	1.19E+08	0.80	1.17	3,610	7.05E+03	2.1
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	7.05E+03	2.14
PCB-56 233'4'-TeCB	29.63		0.9168	0.9168	0	5.56E+07	0.80	1.16	1,710	7.05E+03	2.13
PCB-60 2344'-TeCB	29.83		0.9228	0.9228	0	2.66E+07	0.79	1.17	809	7.05E+03	2.11
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	7.05E+03	1.78
PCB-79 33'45'-TeCB	31.49		0.9737	0.9743	+1.1	1.18E+06	0.71	1.32	31.8	7.05E+03	1.87
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	7.05E+03	2.22
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.26E+03	0.408
PCB-96 22'366'-PeCB	25.74		1.0134	1.0134	0	1.11E+06	0.68	1.17	48.8	1.26E+03	0.502
PCB-103 22'45'6-PeCB	27.44		0.8989	0.8988	-0.2	4.58E+05	0.61	0.95	19.7	4.45E+03	1.97
PCB-94 22'356'-PeCB	27.62		0.9051	0.9050	-0.2	4.70E+05	0.62	0.80	24.1	4.45E+03	2.35

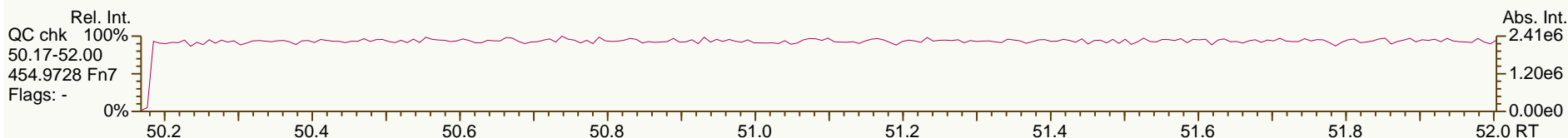
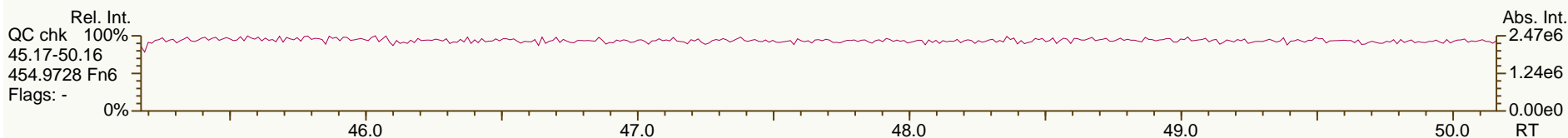
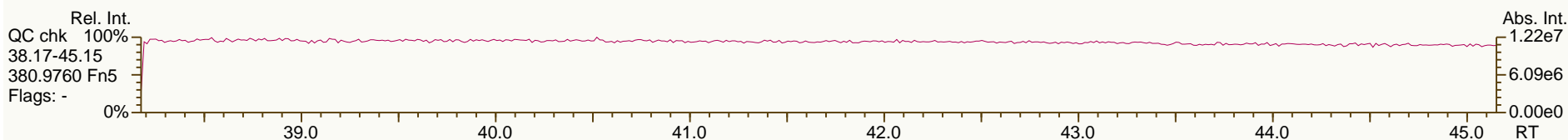
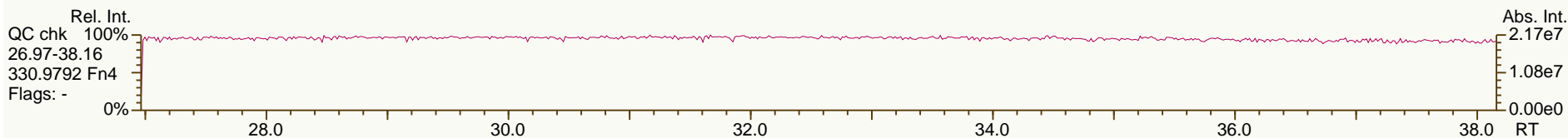
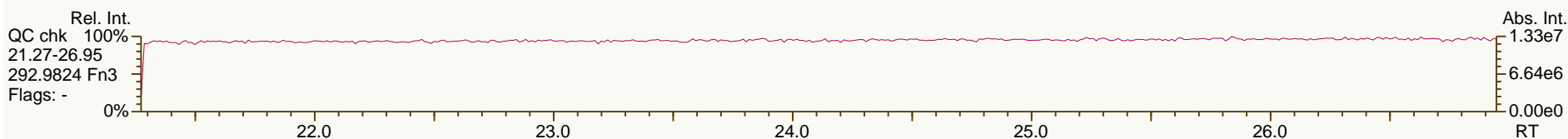
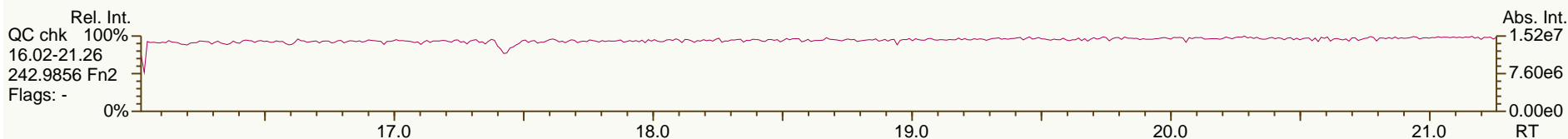
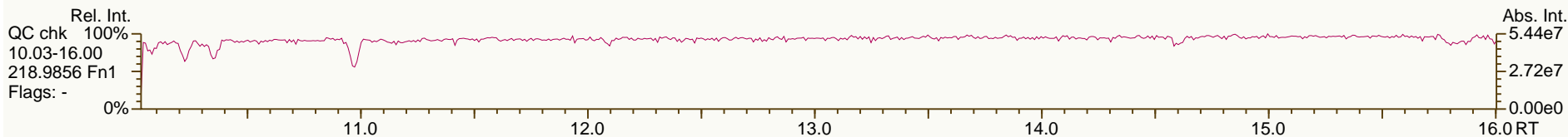
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.01		0.9176	0.9175	-0.2	3.40E+07	0.62	0.87	1,600	4.45E+03	2.16
PCB-100/93 22'44'6/22'356-PeCB	28.23	C	0.9246	0.9247	+0.2	8.28E+05	0.60	0.88	38.7	4.45E+03	2.15
PCB-102 22'456'-PeCB	28.33		0.9282	0.9282	0	2.96E+06	0.63	0.88	138	4.45E+03	2.14
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	4.45E+03	2.2
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	4.45E+03	2.22
PCB-91 22'34'6-PeCB	28.76		0.9425	0.9424	-0.2	9.76E+06	0.62	0.86	467	4.45E+03	2.19
PCB-84 22'33'6-PeCB	28.96		0.9487	0.9487	0	1.28E+07	0.61	0.72	731	4.45E+03	2.62
PCB-89 22'346'-PeCB	29.38		0.9624	0.9624	0	1.39E+06	0.65	0.78	73.3	4.45E+03	2.41
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	4.45E+03	1.54
PCB-92 22'355'-PeCB	30.04		0.9841	0.9840	-0.2	7.35E+06	0.61	0.84	357	4.45E+03	2.23
PCB-113/90/101 ...-PeCB	30.54	C	0.9999	1.0007	+1.5	4.62E+07	0.62	0.97	1,950	4.45E+03	1.93
PCB-83 22'33'5-PeCB	30.95		1.0142	1.0141	-0.2	2.36E+06	0.60	0.66	146	4.45E+03	2.85
PCB-99 22'44'5-PeCB	31.05		1.0173	1.0173	0	2.79E+07	0.62	0.98	1,160	4.45E+03	1.91
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	4.45E+03	1.63
PCB-108/119/86/97/125...-PeCB	31.53	C	1.0320	1.0329	+1.7	4.04E+07	0.62	0.98	1,700	4.45E+03	1.93
PCB-117 234'56-PeCB	32.03		1.0495	1.0494	-0.2	1.82E+06	0.60	1.09	68.5	4.45E+03	1.73
PCB-116/85 23456/22'344'-PeCB	32.11	C	1.0525	1.0520	-1.0	1.34E+07	0.60	0.97	566	4.45E+03	1.94
PCB-110 233'4'6-PeCB	32.24		1.0563	1.0564	+0.2	6.51E+07	0.62	1.10	2,430	4.45E+03	1.71
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	4.45E+03	1.68
PCB-82 22'33'4-PeCB	32.52		1.0656	1.0655	-0.2	7.07E+06	0.62	0.69	417	4.45E+03	2.71
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	4.45E+03	1.56
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	4.45E+03	1.54
PCB-107/124 ...-PeCB	34.20	C	0.9915	0.9916	+0.2	2.18E+06	0.62	1.10	81.2	4.45E+03	1.71
PCB-109 233'46-PeCB	34.41		0.9976	0.9976	0	4.02E+06	0.64	1.22	135	4.45E+03	1.54
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	4.45E+03	1.74
PCB-122 233'4'5'-PeCB	35.09		1.0091	1.0090	-0.2	1.00E+06	0.65	1.01	40.1	4.45E+03	1.87
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	4.45E+03	1.73
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.26E+03	0.405
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.26E+03	0.47
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.26E+03	0.456
PCB-136 22'33'66'-HxCB	30.99		1.0207	1.0208	+0.2	2.77E+06	1.27	1.02	107	1.26E+03	0.499
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.26E+03	0.492
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.26E+03	0.621
PCB-151/135 ...-HxCB	33.04	C	1.0886	1.0885	-0.2	4.55E+06	1.23	1.06	240	1.26E+03	0.659
PCB-154 22'44'56'-HxCB	33.25		1.0955	1.0955	0	2.42E+05	1.11	1.26	10.8	1.26E+03	0.556
PCB-144 22'345'6-HxCB	33.52		1.1042	1.1043	+0.2	7.87E+05	1.35	1.10	39.9	1.26E+03	0.633
PCB-147/149 ...-HxCB	33.82	C	1.1142	1.1141	-0.2	1.20E+07	1.29	1.10	608	1.26E+03	0.634
PCB-134 22'33'56-HxCB	34.00		1.1199	1.1201	+0.4	8.16E+05	1.30	0.81	56.1	1.26E+03	0.858
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.26E+03	0.638
PCB-139/140 ...-HxCB	34.34	J C	1.1313	1.1312	-0.2	3.75E+05	1.27	1.11	18.9	1.26E+03	0.629
PCB-131 22'33'46-HxCB	34.51		1.1370	1.1370	0	2.77E+05	1.34	0.94	16.4	1.26E+03	0.74
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.26E+03	0.757
PCB-132 22'33'46'-HxCB	34.89		1.1495	1.1495	0	5.32E+06	1.23	0.97	306	1.26E+03	0.719
PCB-133 22'33'55'-HxCB	35.30		1.1628	1.1628	0	2.31E+05	1.17	1.04	12.5	1.26E+03	0.673
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.26E+03	0.529
PCB-146 22'34'55'-HxCB	35.85		0.9582	0.9581	-0.2	2.38E+06	1.20	1.16	115	1.26E+03	0.603
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.26E+03	0.491
PCB-153/168 ...-HxCB	36.38	C	0.9728	0.9722	-1.3	1.47E+07	1.26	1.38	593	1.26E+03	0.504

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.54		0.9767	0.9766	-0.2	2.77E+06	1.27	1.01	154	1.26E+03	0.693
PCB-130 22'33'45'-HxCB	36.89		0.9859	0.9859	0	1.12E+06	1.25	0.91	68.7	1.26E+03	0.768
PCB-137 22'344'5-HxCB	37.09	EMPC	0.9912	0.9912	0	9.08E+05	1.47	1.15	44.2	1.26E+03	0.608
PCB-164 233'4'5'6-HxCB	37.17		0.9934	0.9935	+0.2	1.49E+06	1.17	1.37	60.7	1.26E+03	0.509
PCB-163/138/129 ...-HxCB	37.44	C	1.0011	1.0007	-0.9	1.86E+07	1.28	1.12	926	1.26E+03	0.621
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.26E+03	0.551
PCB-158 233'44'6-HxCB	37.78		1.0096	1.0096	0	2.49E+06	1.20	1.49	93.6	1.26E+03	0.469
PCB-128/166 ...-HxCB	38.52	C	0.9640	0.9643	+0.7	3.14E+06	1.19	0.89	159	2.28E+03	1.21
PCB-159 233'455'-HxCB	39.31	J	0.9843	0.9840	-0.7	1.62E+05	1.33	1.07	6.72	2.28E+03	0.998
PCB-162 233'4'55'-HxCB	39.56	J	0.9903	0.9902	-0.2	8.48E+04	1.11	1.07	3.54	2.28E+03	1
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.10E+03	0.49
PCB-179 22'33'566'-HpCB	35.53		1.0086	1.0086	0	1.12E+06	1.01	1.09	58.6	1.10E+03	0.573
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.10E+03	0.597
PCB-176 22'33'466'-HpCB	36.29		1.0300	1.0300	0	3.51E+05	1.04	1.15	17.3	1.10E+03	0.54
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.10E+03	0.576
PCB-178 22'33'55'6-HpCB	37.81		1.0733	1.0733	0	3.92E+05	1.08	0.75	29.5	1.10E+03	0.825
PCB-175 22'33'45'6-HpCB	38.36	J	1.0888	1.0888	0	1.10E+05	1.14	1.09	6.36	2.10E+03	1.22
PCB-187 22'34'55'6-HpCB	38.59		1.0953	1.0953	0	2.97E+06	1.02	1.17	161	2.10E+03	1.15
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	2.10E+03	1.12
PCB-183 22'344'5'6-HpCB	39.11		1.1101	1.1102	+0.2	1.46E+06	1.01	1.23	75.4	2.10E+03	1.09
PCB-185 22'3455'6-HpCB	39.20		1.1125	1.1127	+0.5	2.12E+05	1.14	1.05	12.8	2.10E+03	1.27
PCB-174 22'33'456'-HpCB	39.31		1.1156	1.1157	+0.2	2.06E+06	1.06	1.01	129	2.10E+03	1.33
PCB-177 22'33'45'6'-HpCB	39.68		1.1263	1.1263	0	1.25E+06	1.01	0.96	82.9	2.10E+03	1.4
PCB-181 22'344'56-HpCB	40.03	J EMPC	1.1362	1.1361	-0.2	3.16E+04	0.87	1.08	1.85	2.10E+03	1.24
PCB-171/173 ...-HpCB	40.22	C	1.1414	1.1416	+0.5	7.24E+05	1.06	0.95	48.5	2.10E+03	1.42
PCB-172 22'33'455'-HpCB	41.56		0.9079	0.9080	+0.2	3.99E+05	1.01	0.99	25.5	2.10E+03	1.35
PCB-192 233'455'6-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	2.10E+03	1.04
PCB-180/193 ...-HpCB	42.11	C	0.9193	0.9200	+1.8	5.12E+06	1.08	1.23	263	2.10E+03	1.09
PCB-191 233'44'5'6-HpCB	42.41	J	0.9266	0.9265	-0.3	1.36E+05	1.09	1.35	6.36	2.10E+03	0.991
PCB-170 22'33'44'5-HpCB	43.18		0.9434	0.9434	0	1.91E+06	1.05	1.12	133	2.10E+03	1.57
PCB-190 233'44'56-HpCB	43.63		0.9533	0.9532	-0.3	5.12E+05	1.07	1.54	25.7	2.10E+03	1.13
PCB-202 22'33'55'66'-OoCB	39.79		1.0005	1.0005	0	2.89E+05	0.97	1.05	16.7	1.37E+03	0.813
PCB-201 22'33'45'66'-OoCB	40.57	J	1.0203	1.0203	0	1.76E+05	0.97	1.12	9.6	1.37E+03	0.767
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.37E+03	0.825
PCB-197 22'33'44'66'-OoCB	41.34	J	1.0395	1.0395	0	7.70E+04	0.85	1.09	4.31	1.37E+03	0.786
PCB-200 22'33'4566'-OoCB	41.43	J	1.0418	1.0419	+0.2	1.36E+05	0.84	1.09	7.64	1.37E+03	0.789
PCB-198/199 ...-OoCB	43.77	C	1.1002	1.1007	+1.3	8.17E+05	0.87	0.72	68.9	1.37E+03	1.19
PCB-196 22'33'44'56'-OoCB	44.32		1.1147	1.1146	-0.3	3.79E+05	0.90	0.76	30.2	1.37E+03	1.12
PCB-203 22'344'55'6-OoCB	44.49		1.1189	1.1189	0	4.56E+05	0.85	0.78	35.6	1.37E+03	1.1
PCB-195 22'33'44'56-OoCB	45.61		0.9516	0.9516	0	2.21E+05	0.92	0.75	22.2	1.83E+03	1.9
PCB-194 22'33'44'55'-OoCB	47.56		0.9921	0.9921	0	5.90E+05	0.87	0.81	54.9	1.83E+03	1.75
PCB-205 233'44'55'6-OoCB	47.96	J	1.0004	1.0005	+0.3	4.22E+04	1.00	1.06	3.01	1.83E+03	1.34
PCB-208 22'33'455'66'-NoCB	45.41		1.0005	1.0005	0	4.39E+05	0.76	1.12	25.9	3.14E+03	1.93
PCB-207 22'33'44'566'-NoCB	46.20		1.0178	1.0178	0	3.62E+05	0.74	1.14	21.1	3.14E+03	1.9
PCB-206 22'33'44'55'6-NoCB	49.42		1.0004	1.0004	0	3.94E+05	0.81	1.11	38.3	3.14E+03	3.36

SGS-AP ID: A6504\_11892\_PCB\_004  
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Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

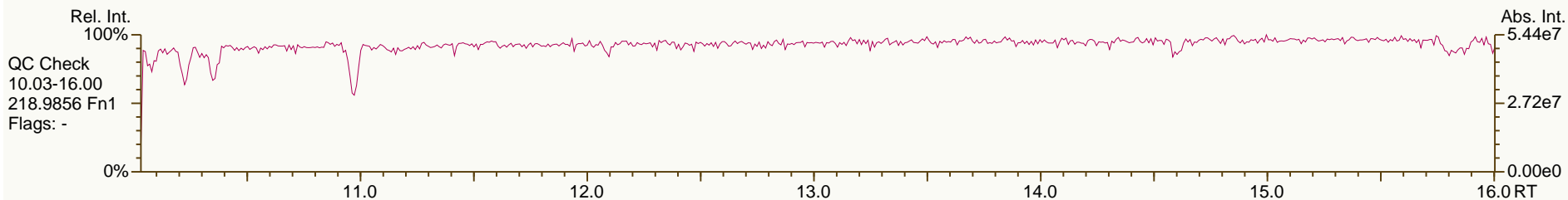
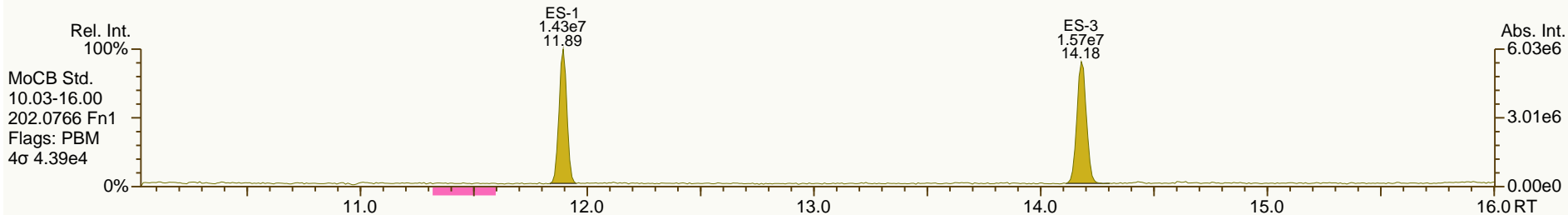
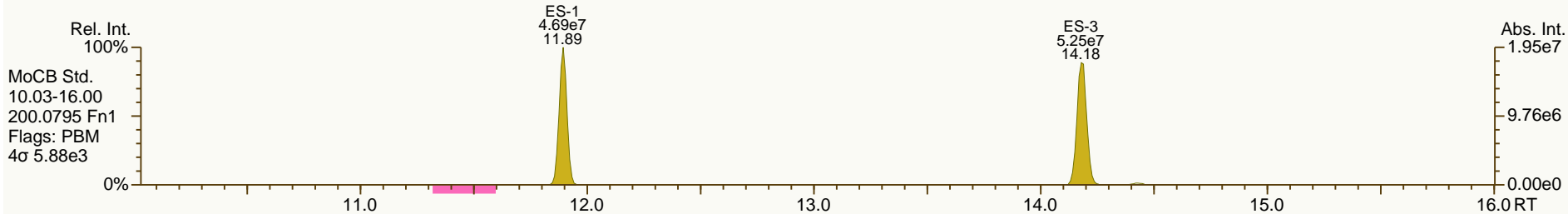
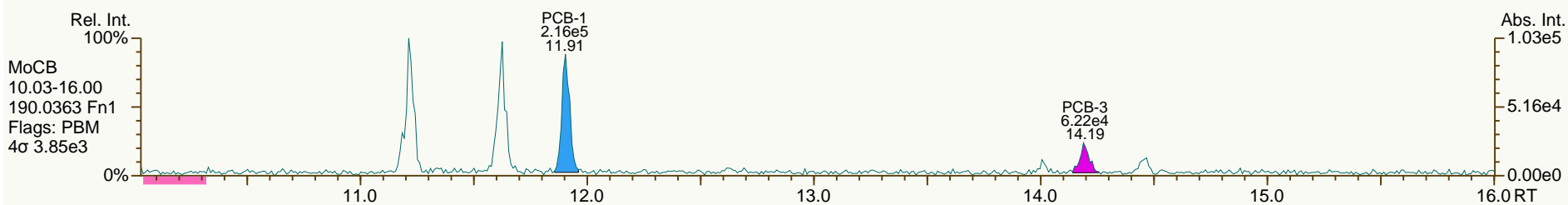
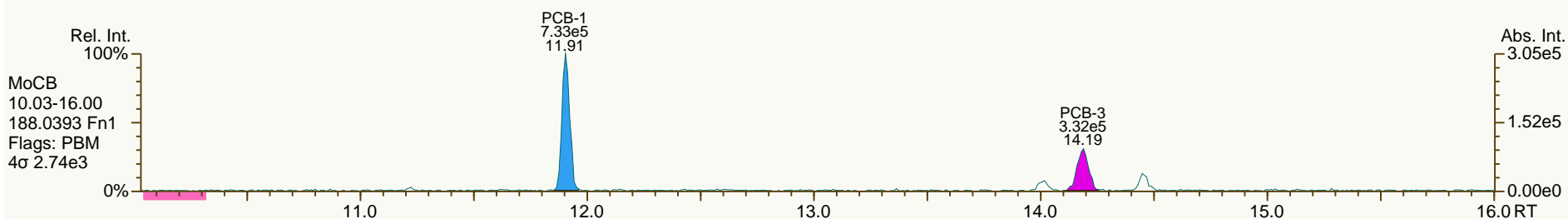
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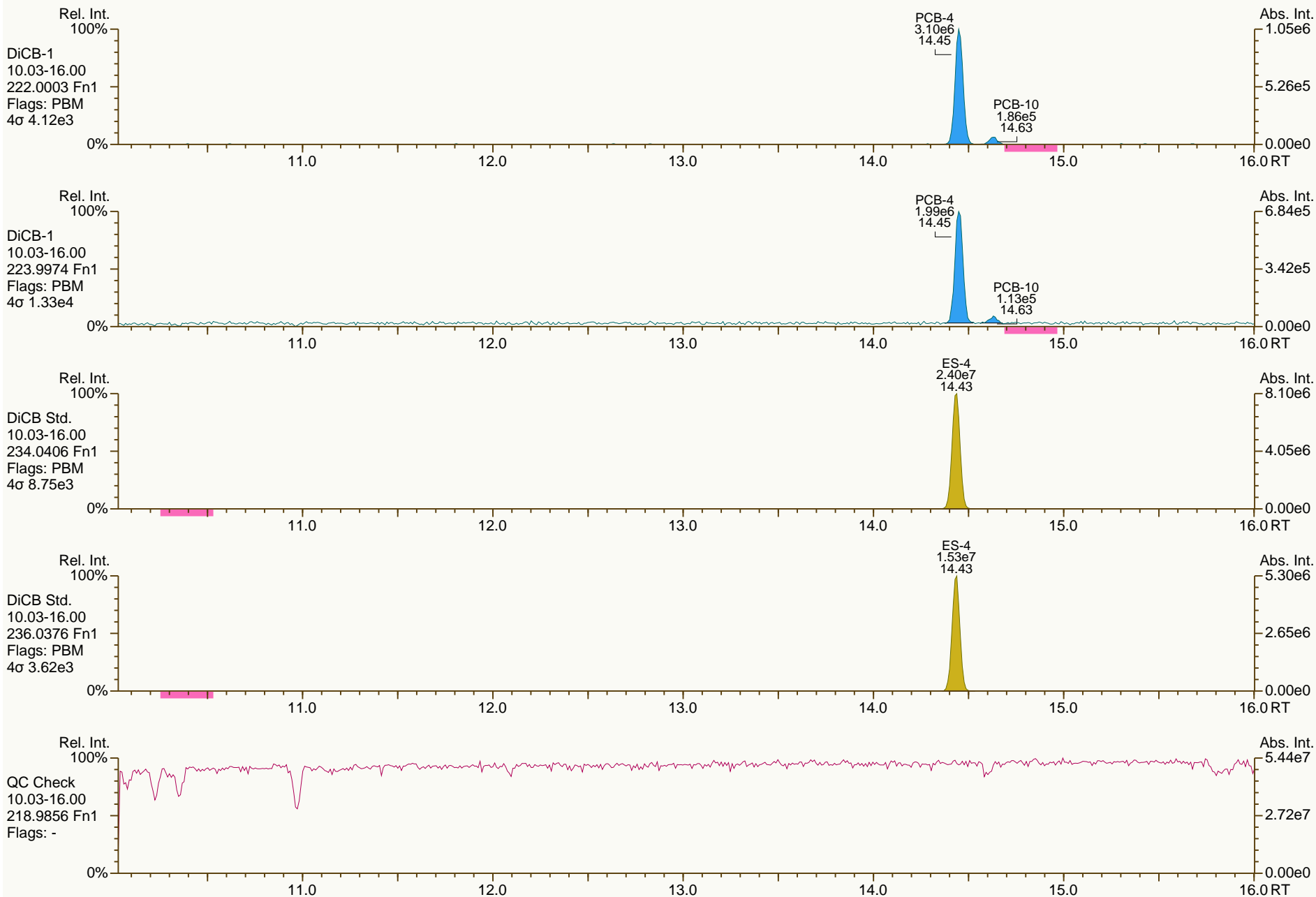
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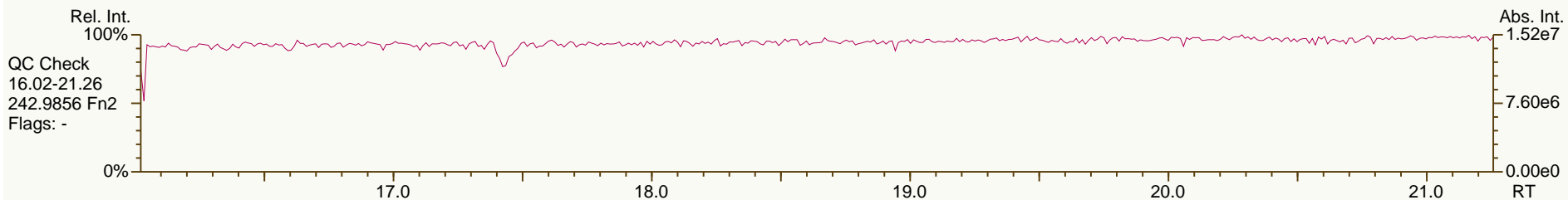
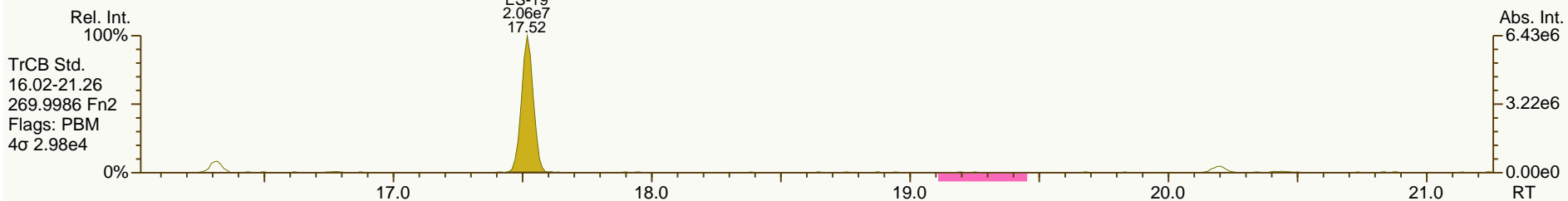
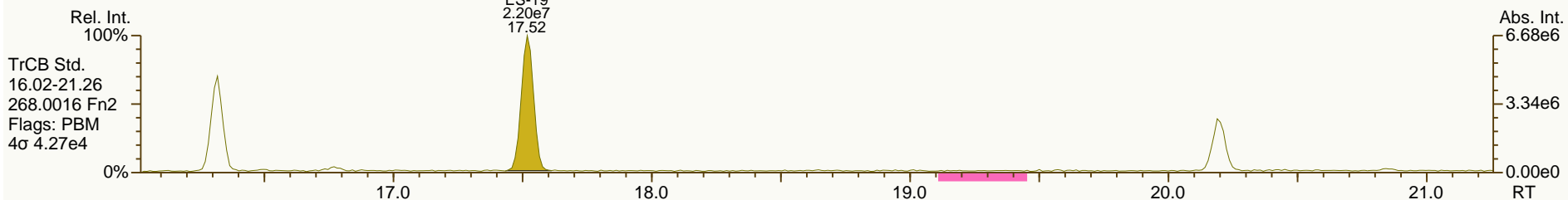
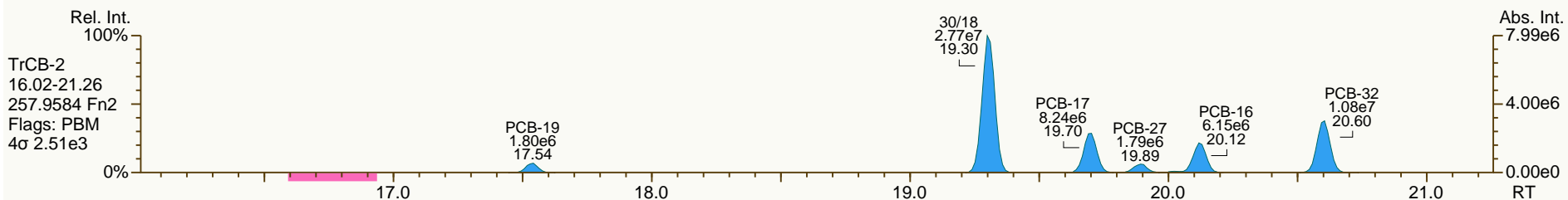
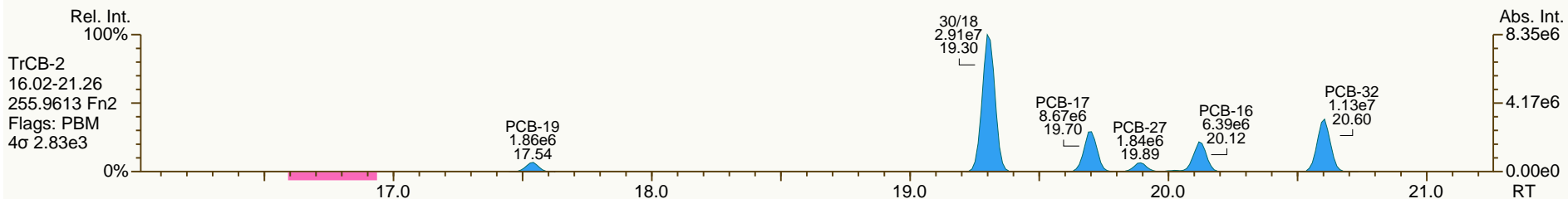
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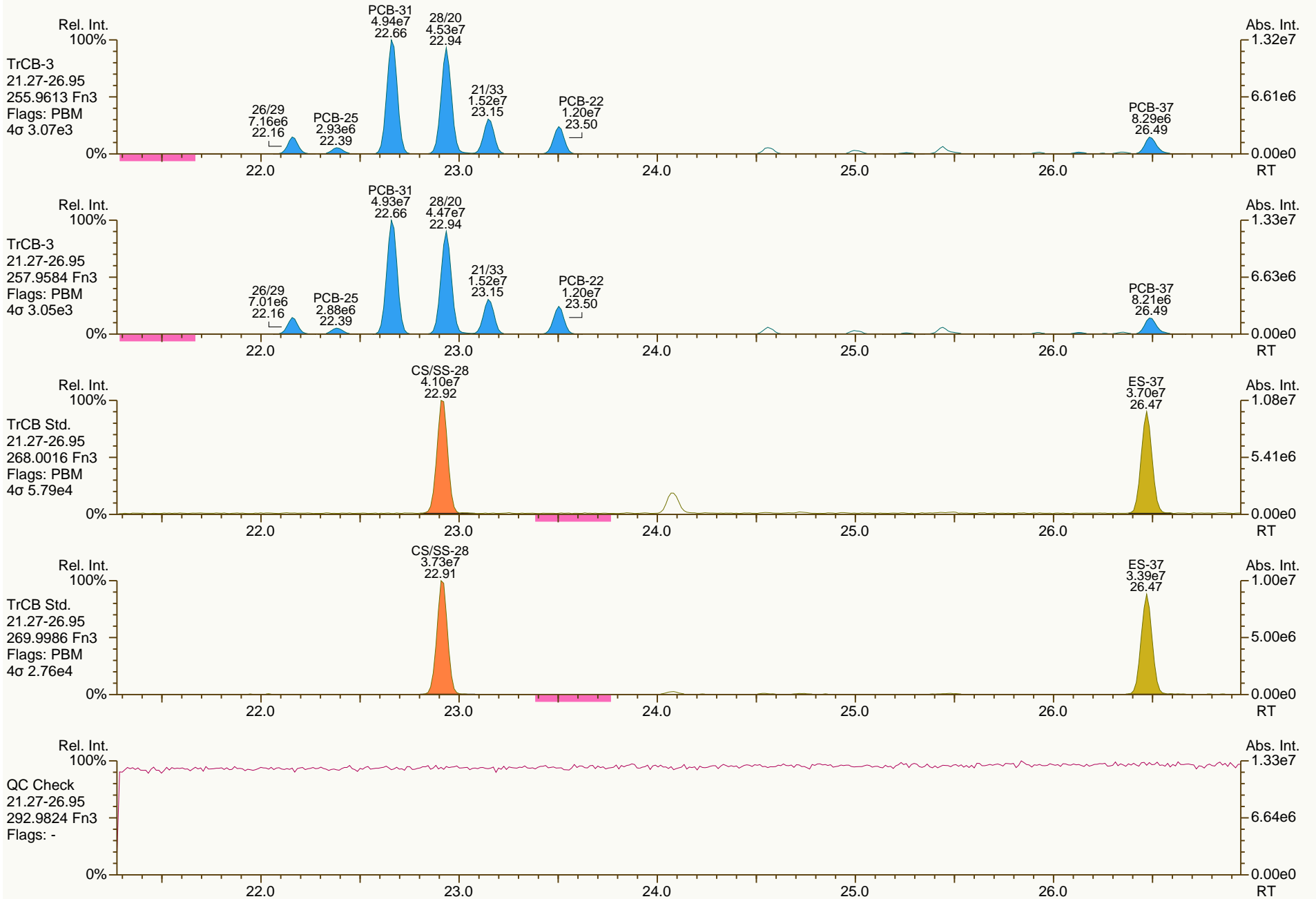




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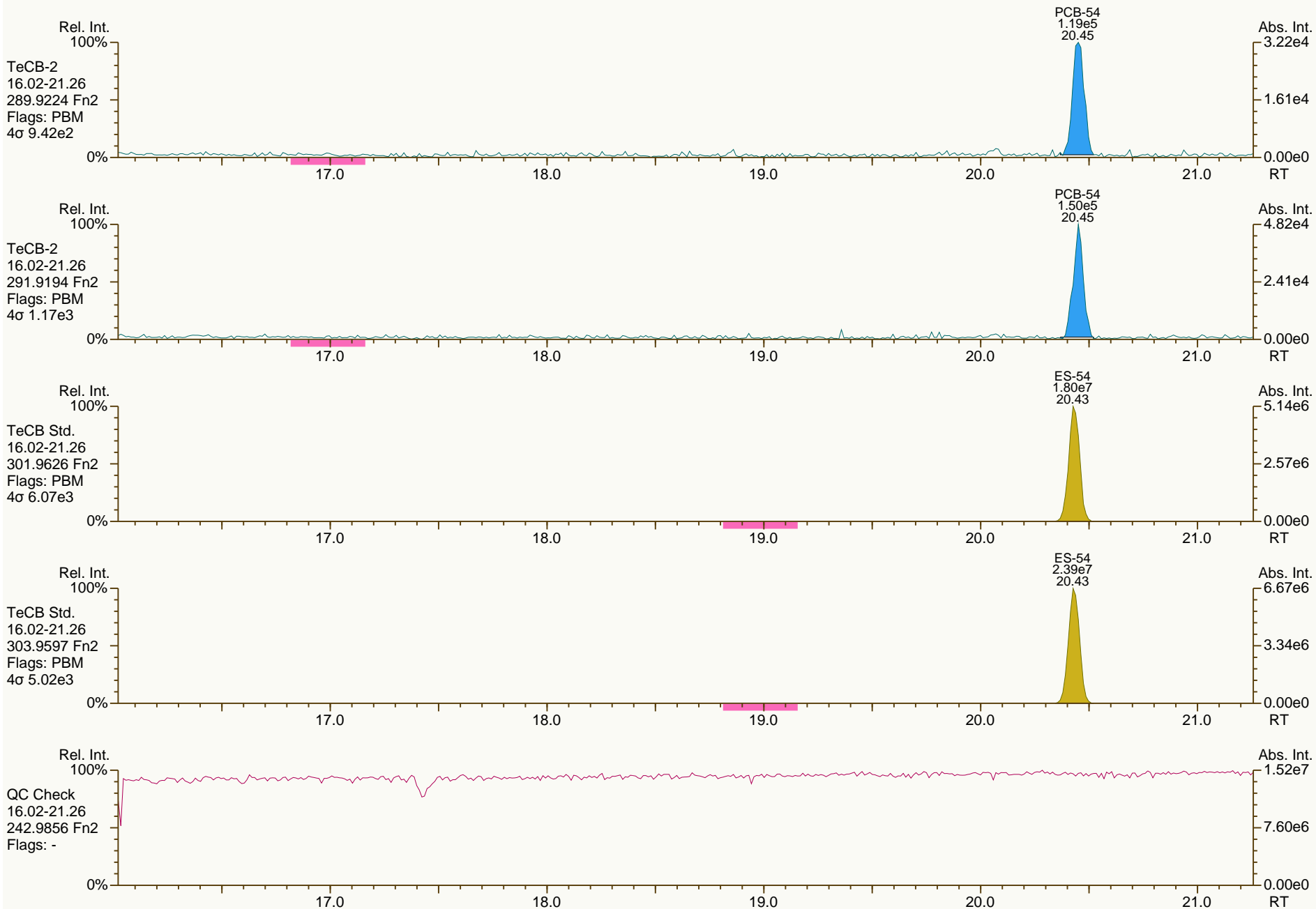
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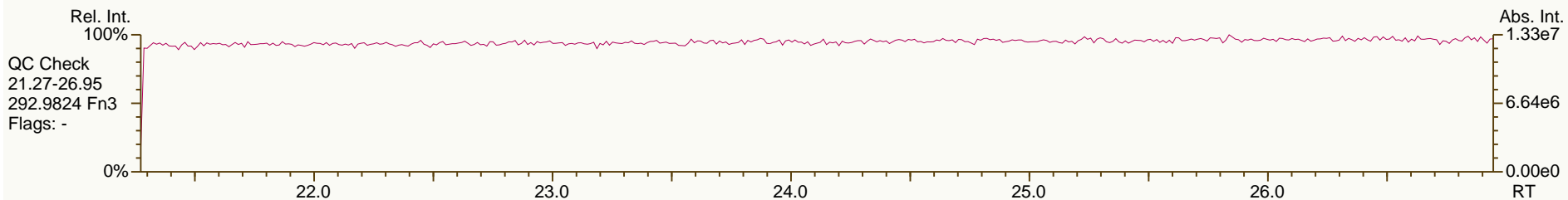
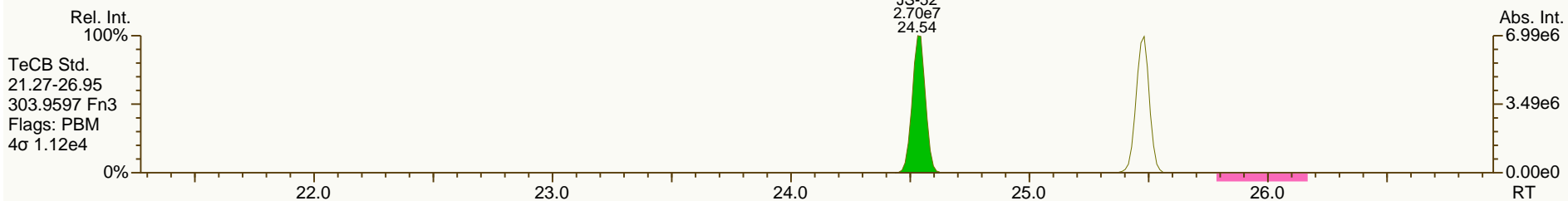
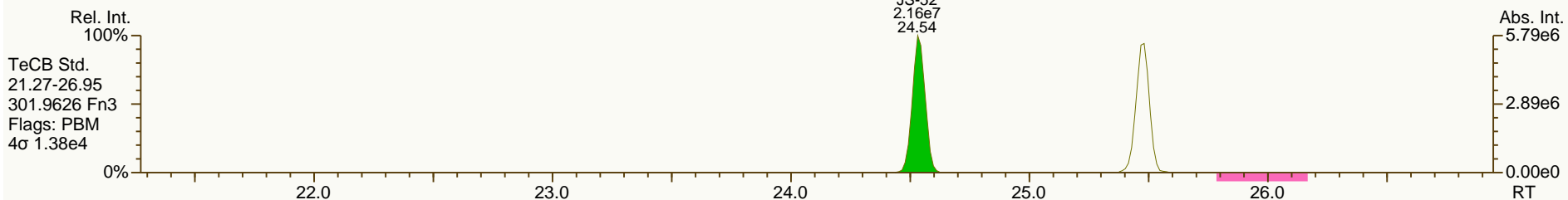
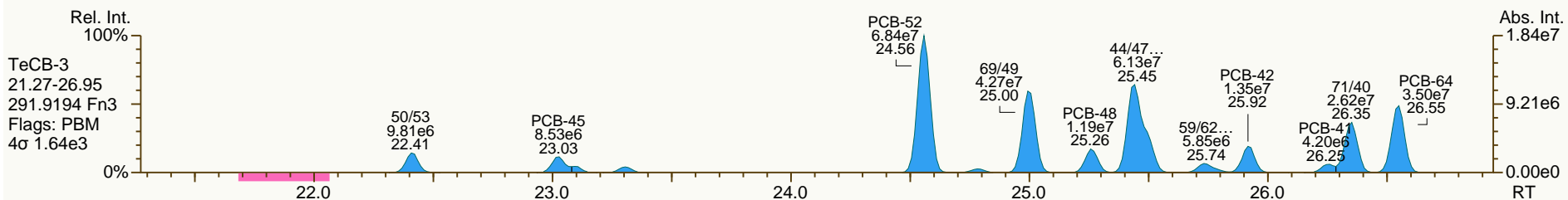
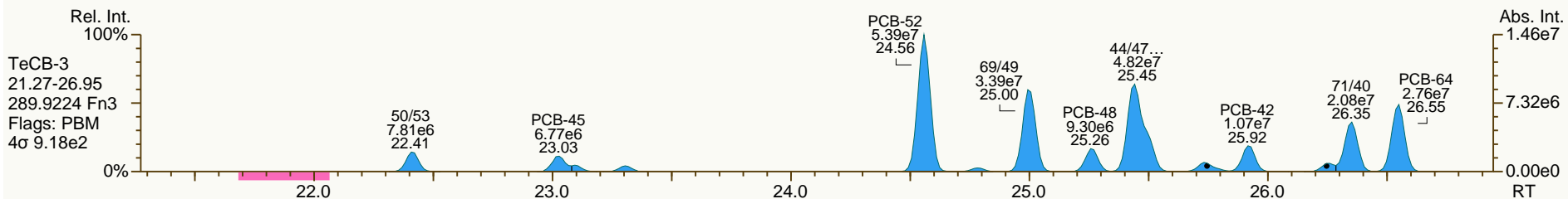
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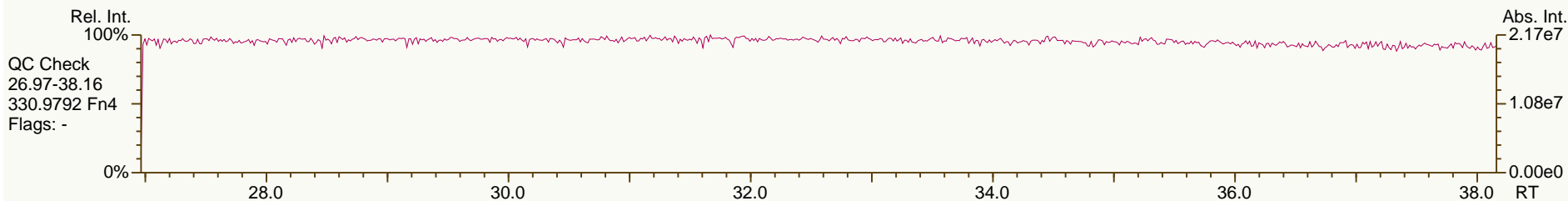
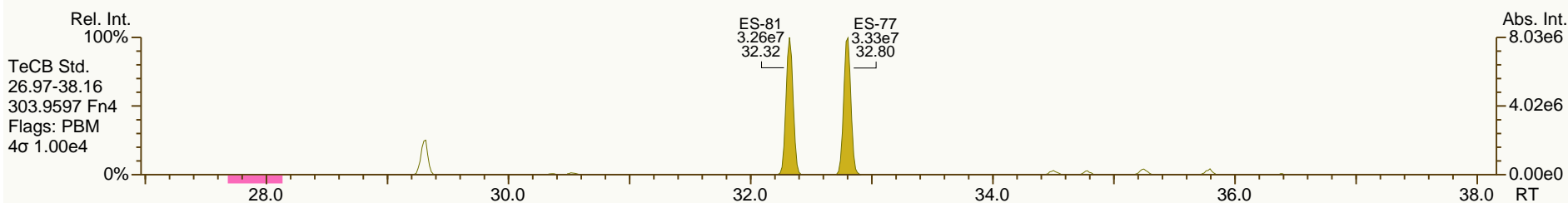
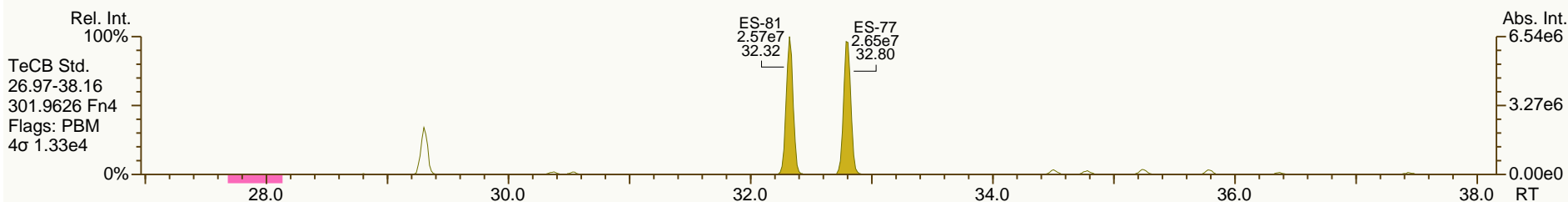
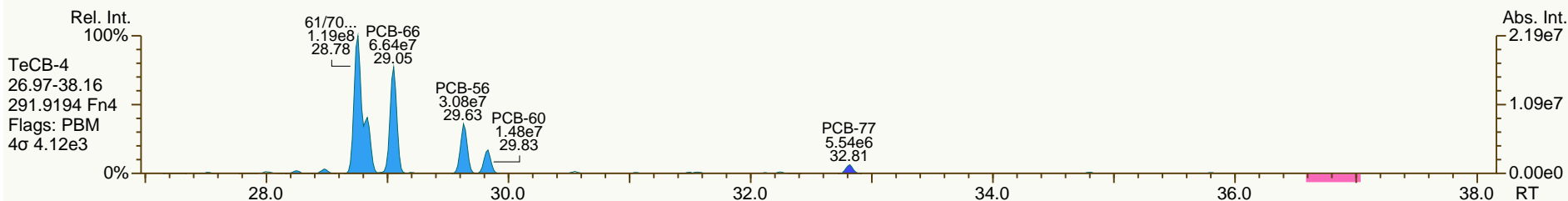
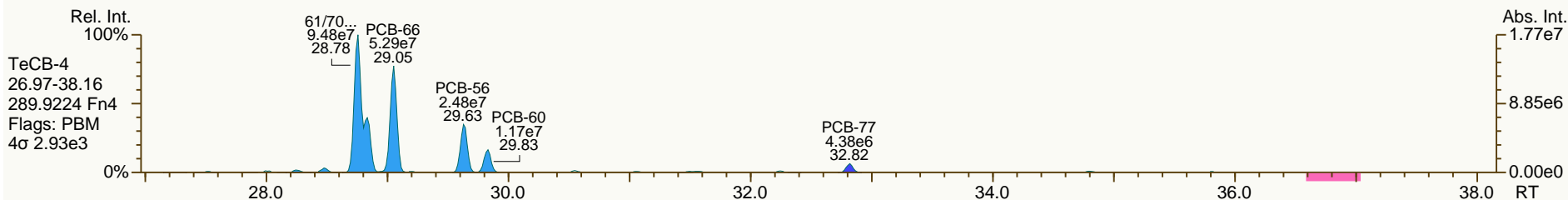
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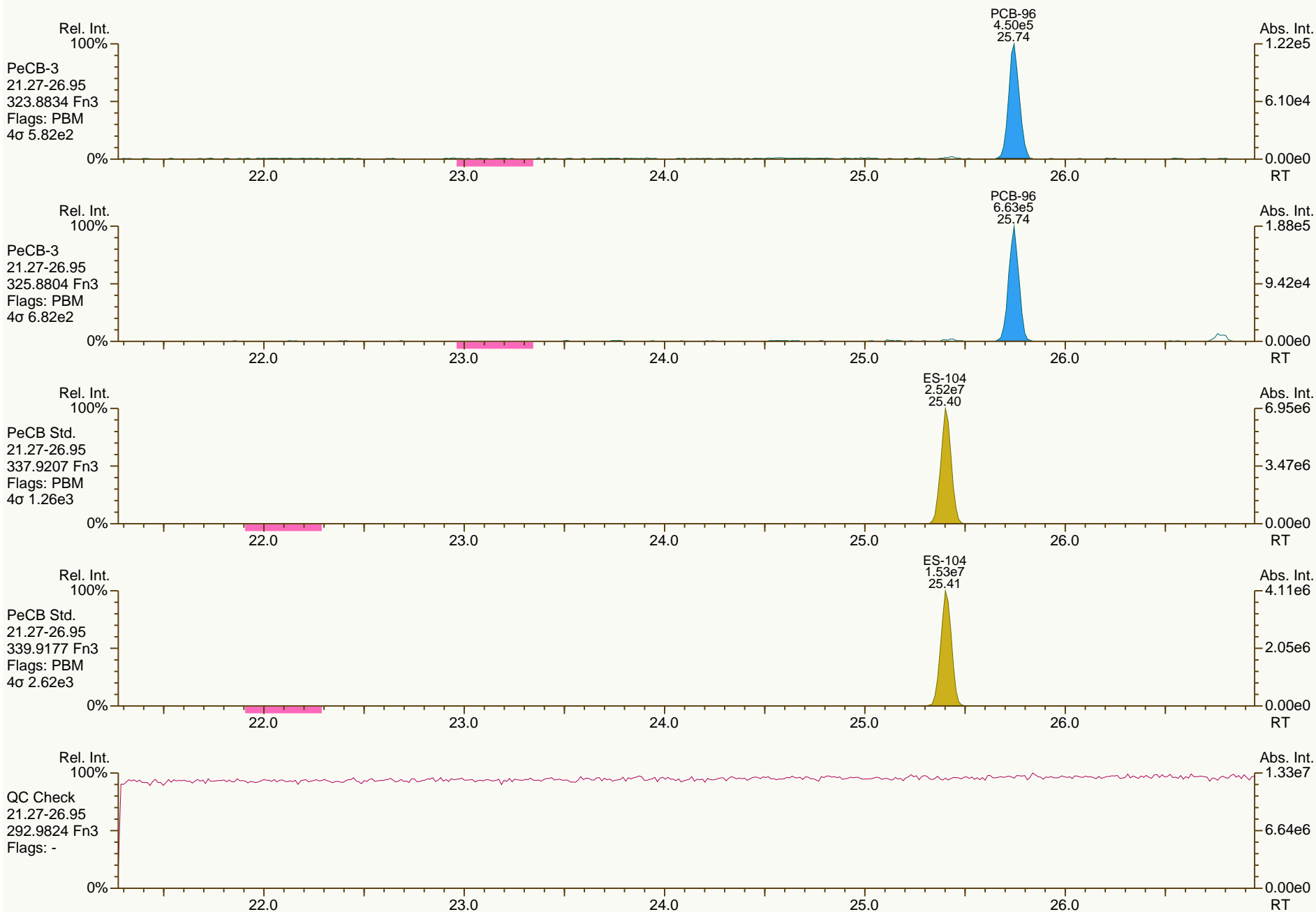
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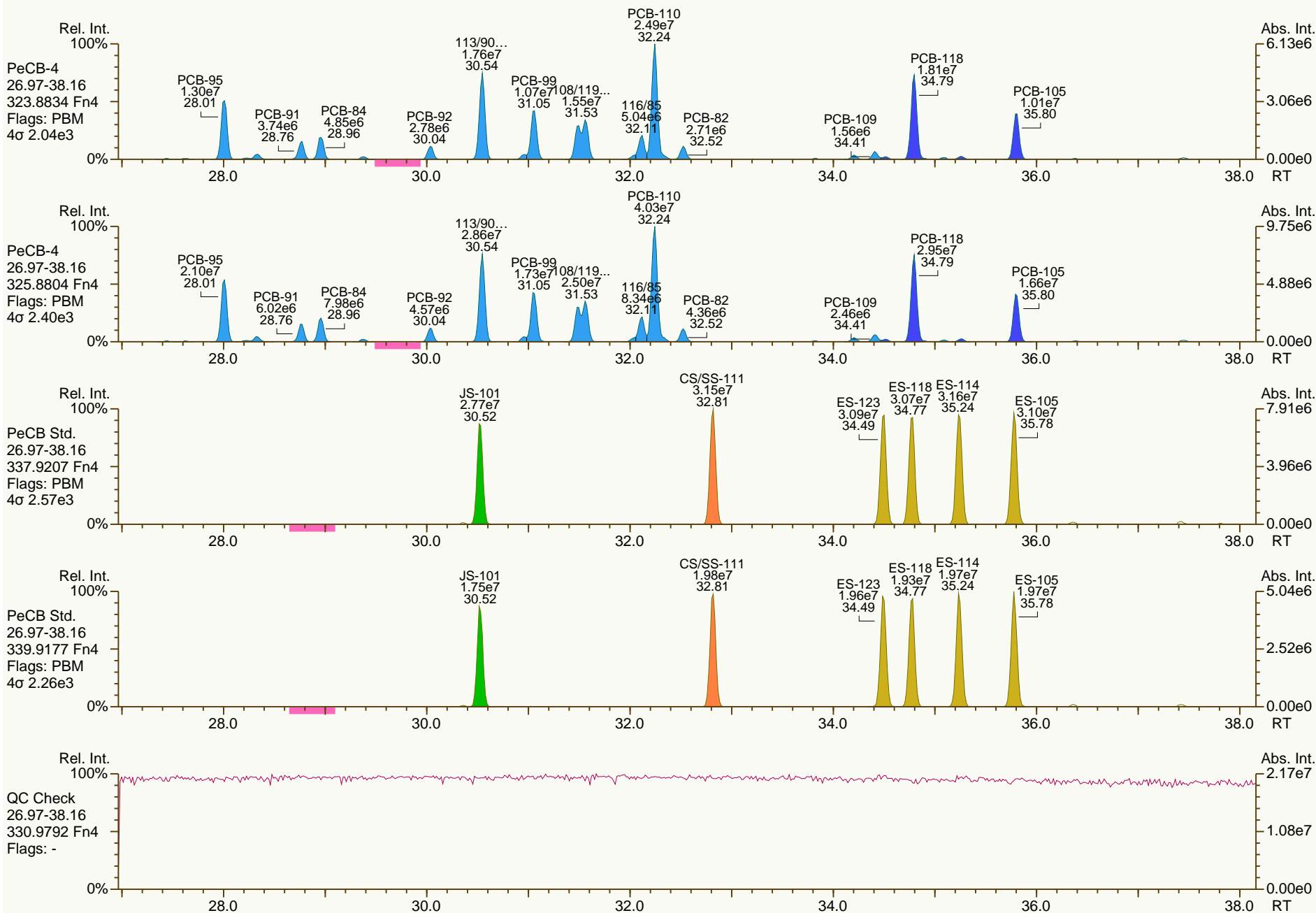
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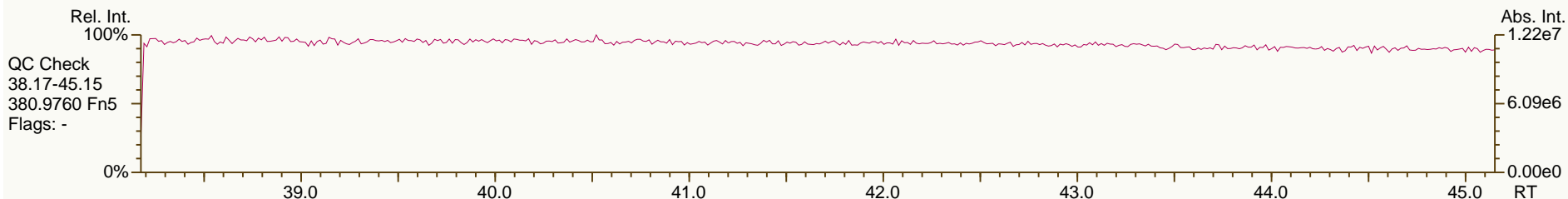
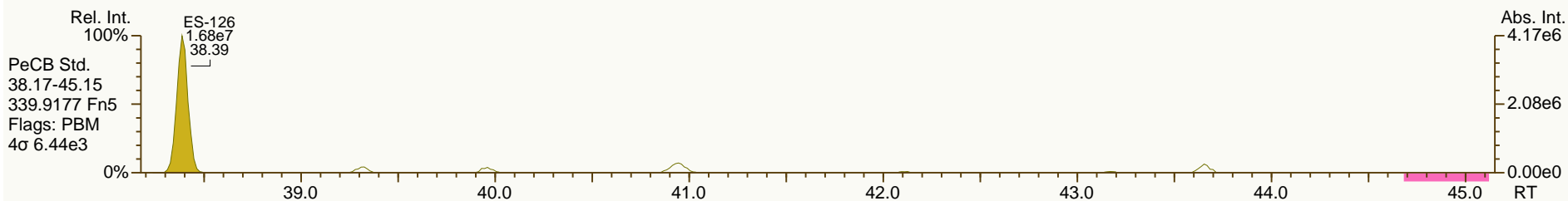
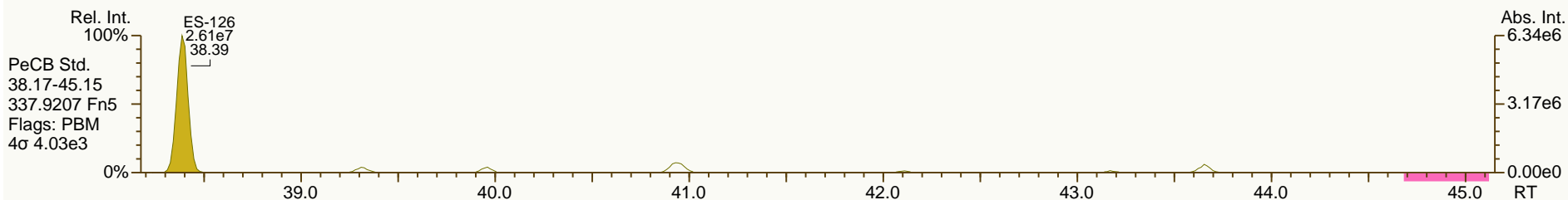
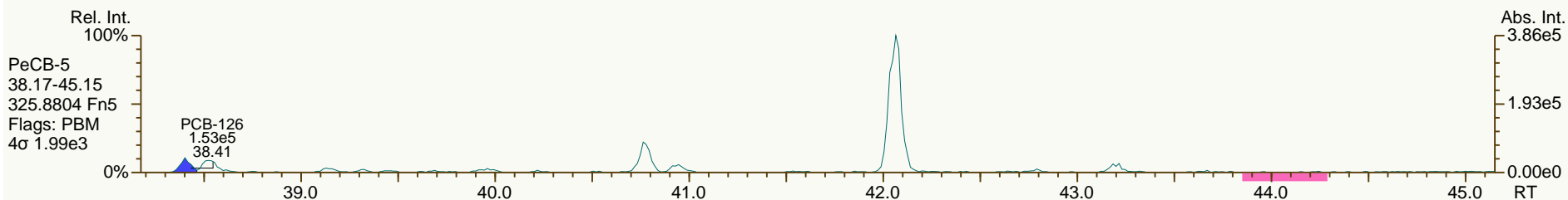
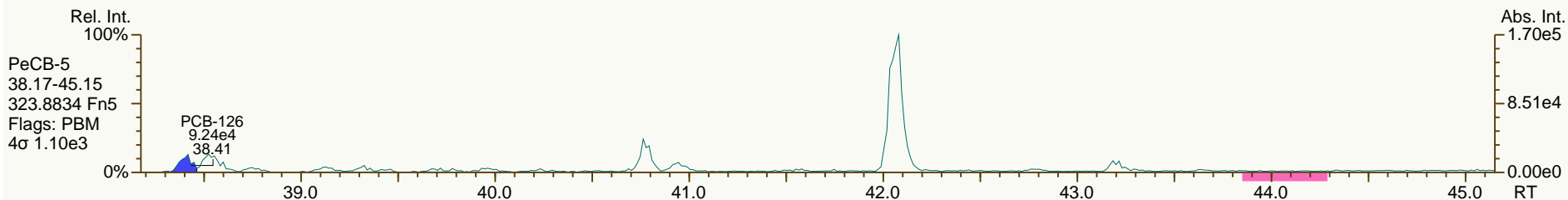
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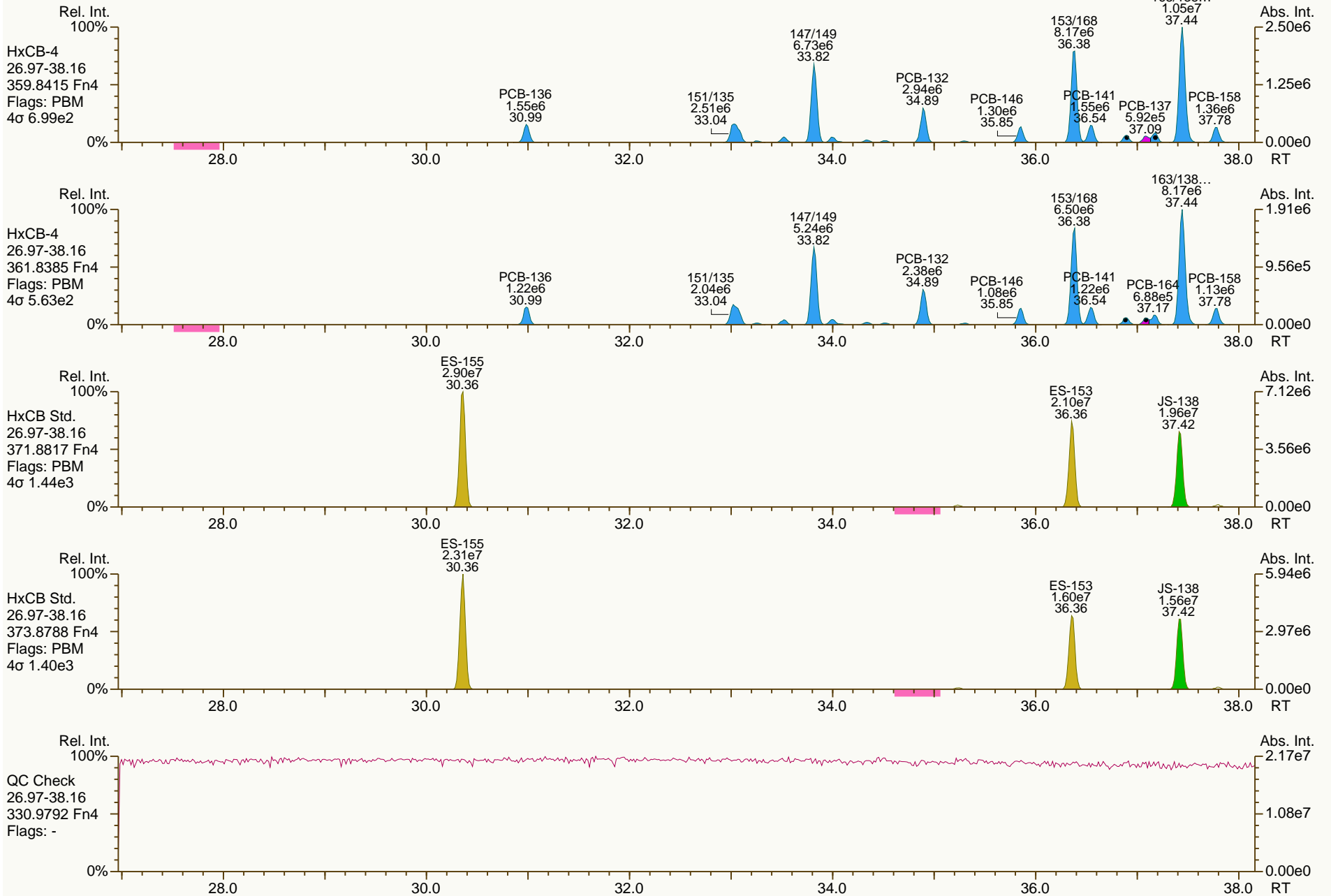
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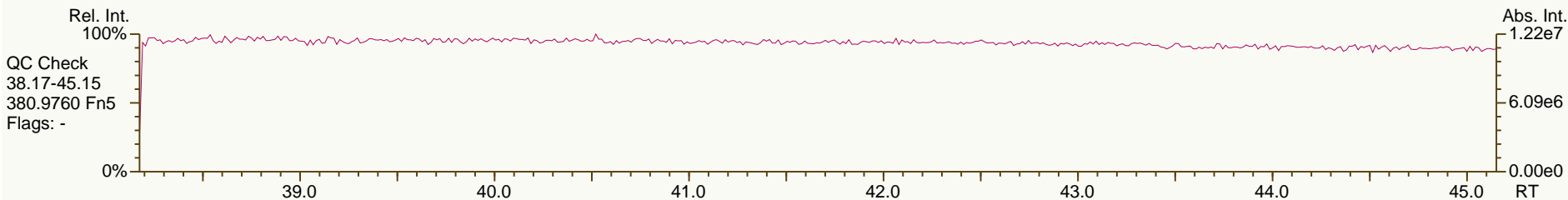
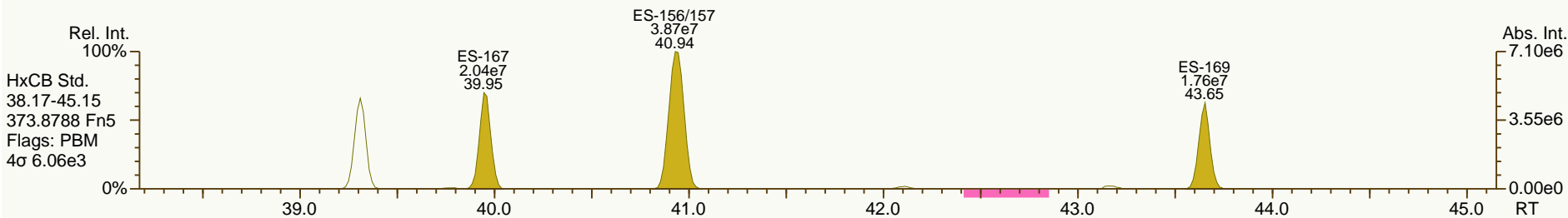
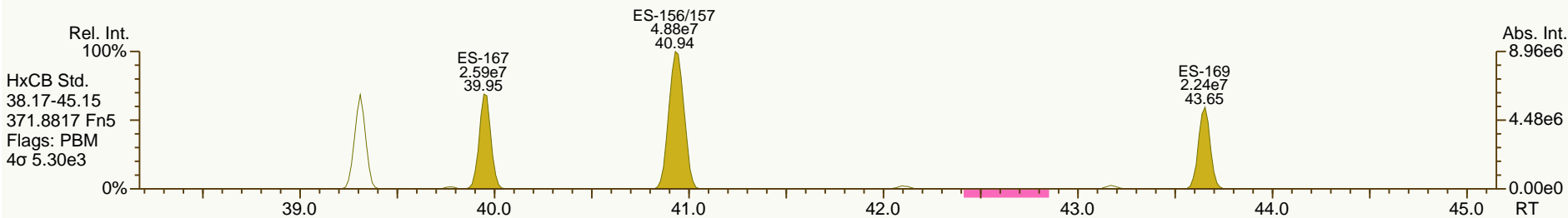
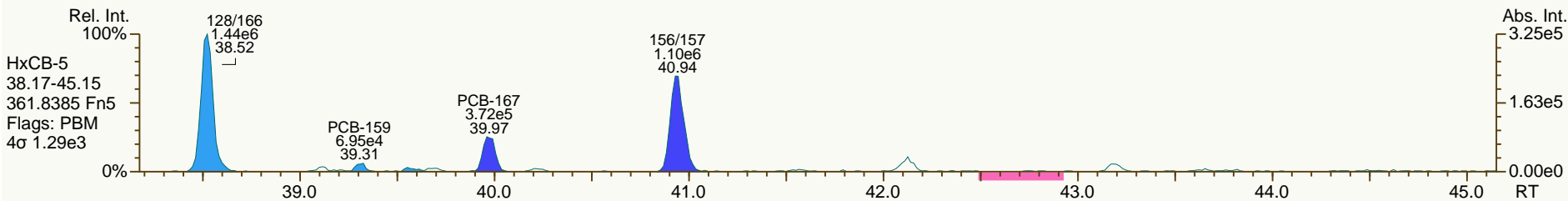
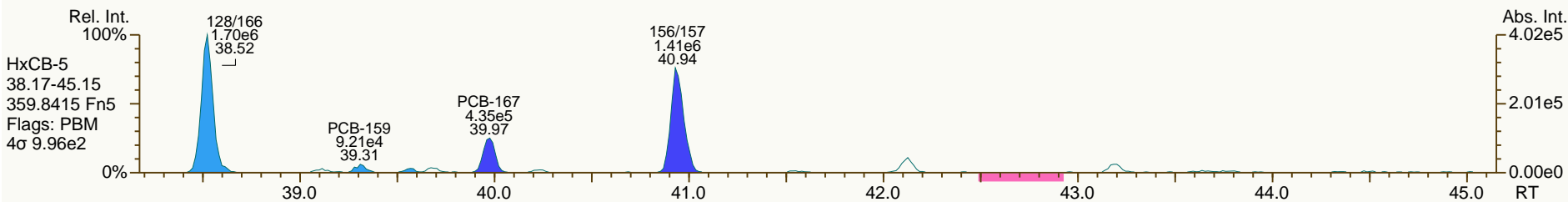




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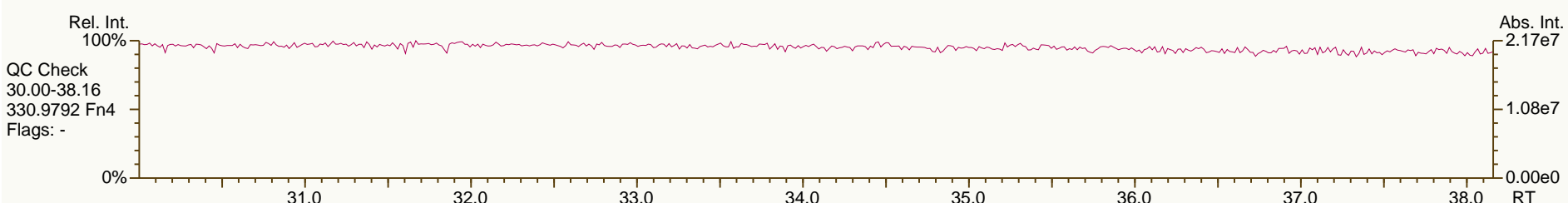
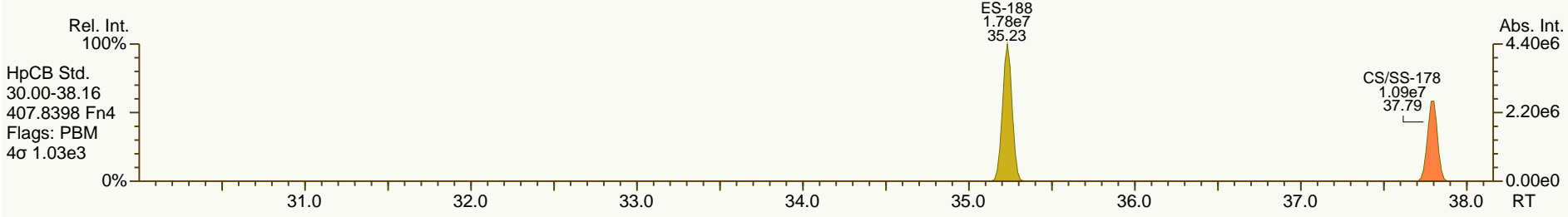
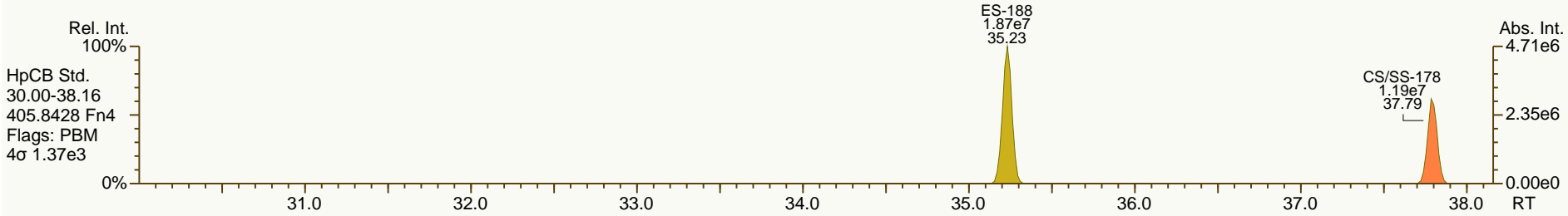
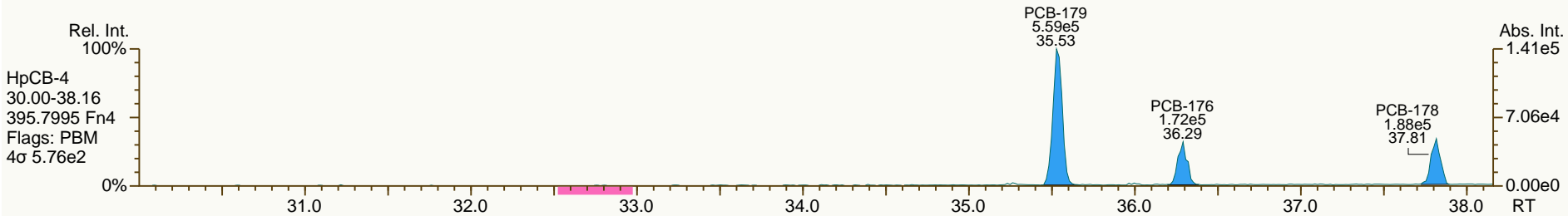
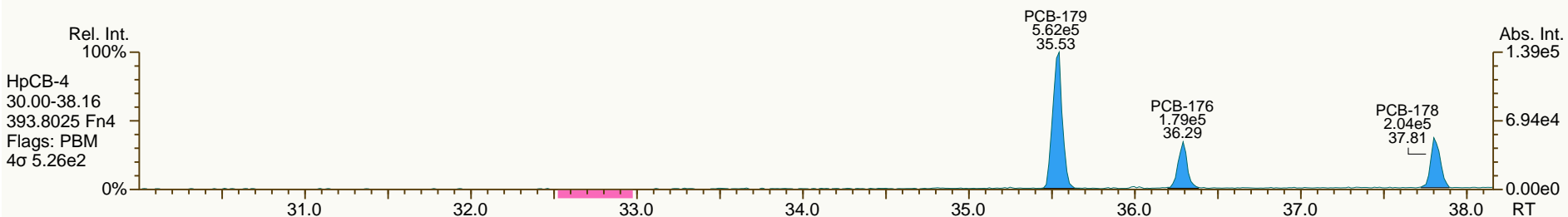
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SGS-AP ID: A6504\_11892\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

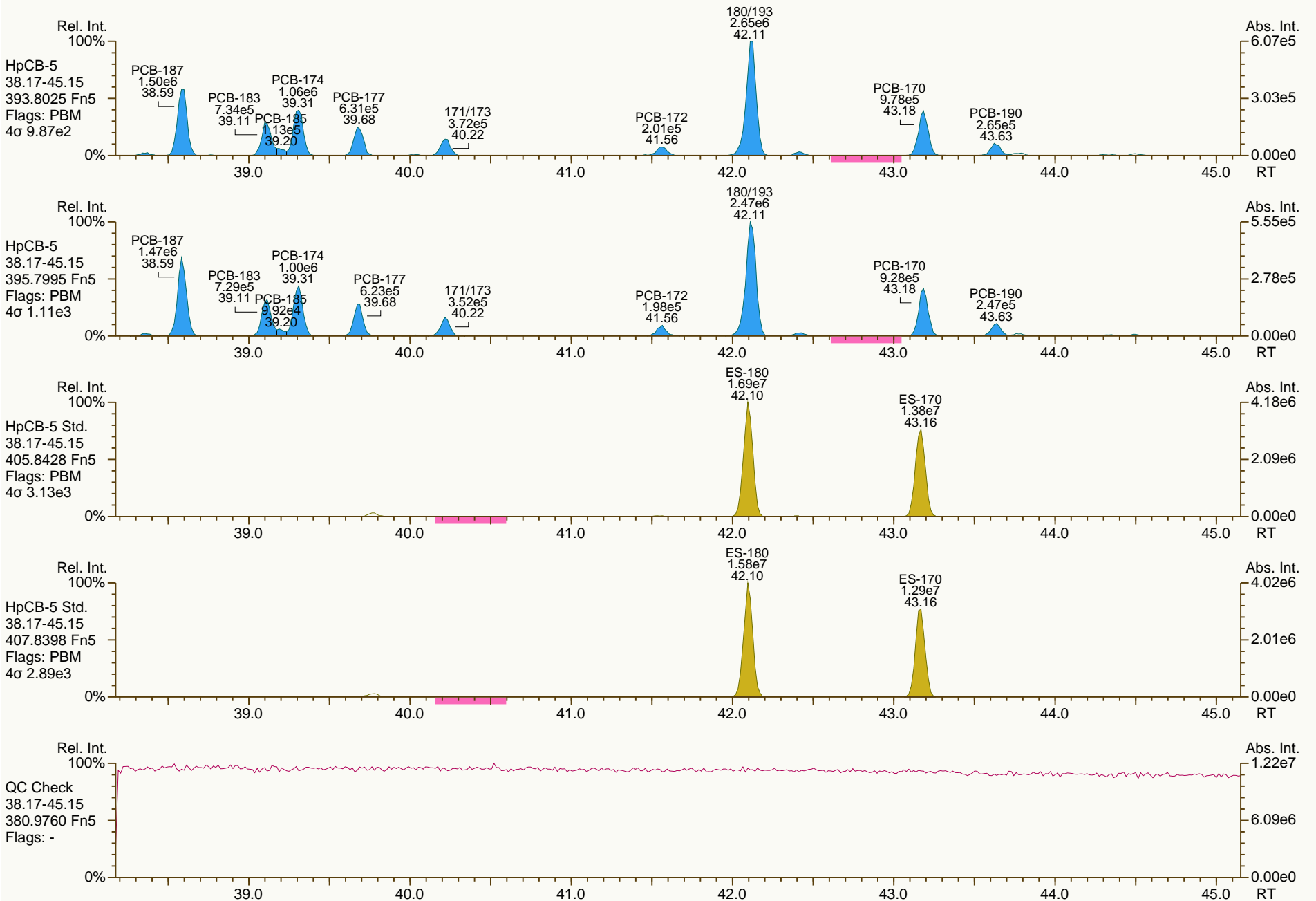
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SGS-AP ID: A6504\_11892\_PCB\_004  
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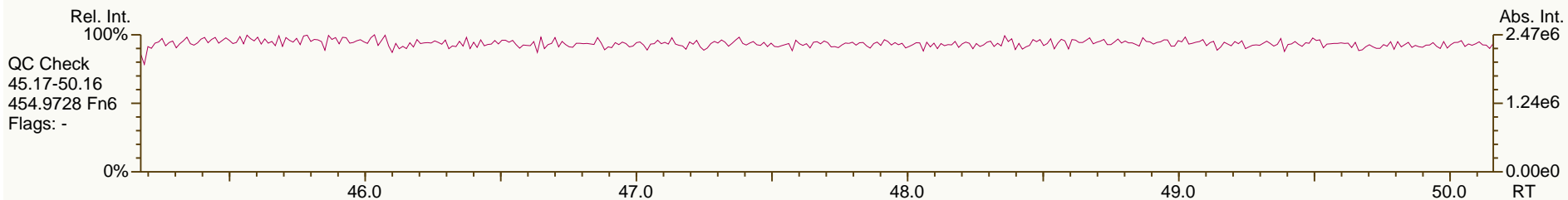
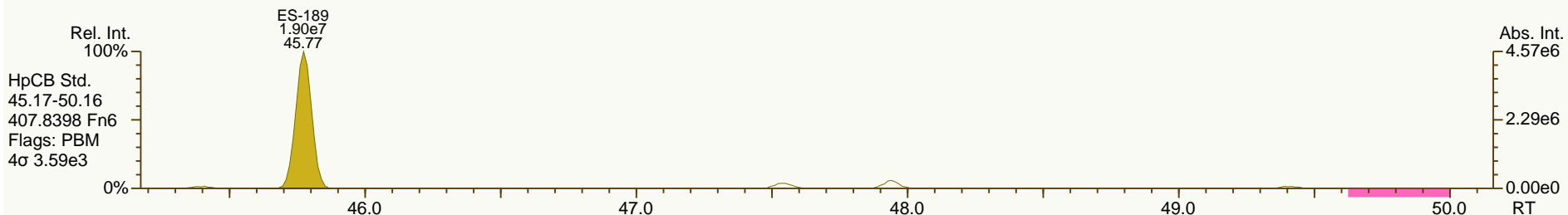
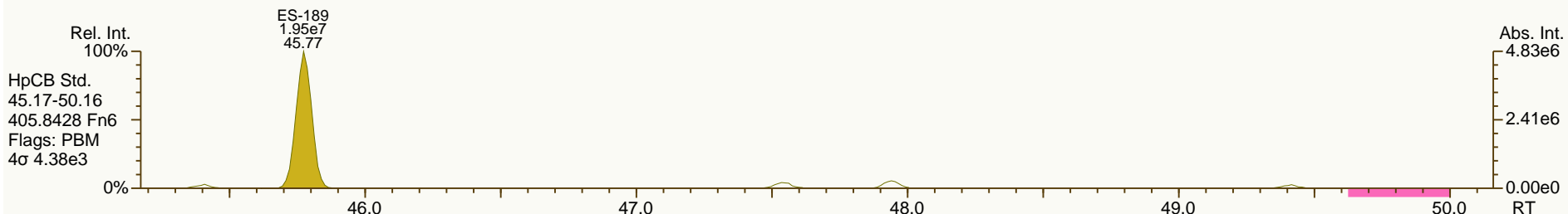
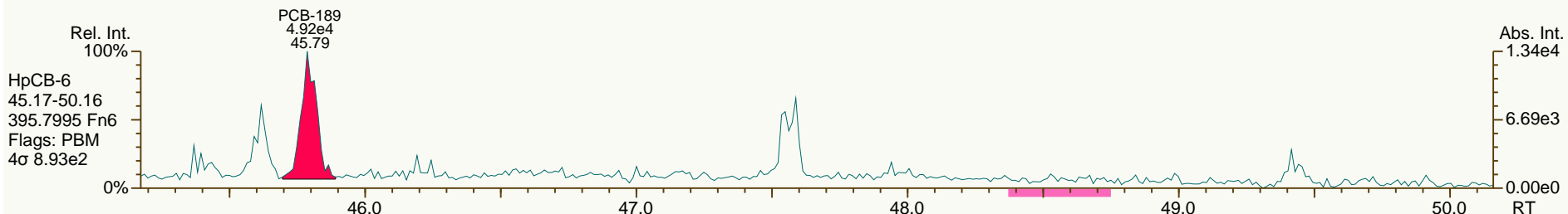
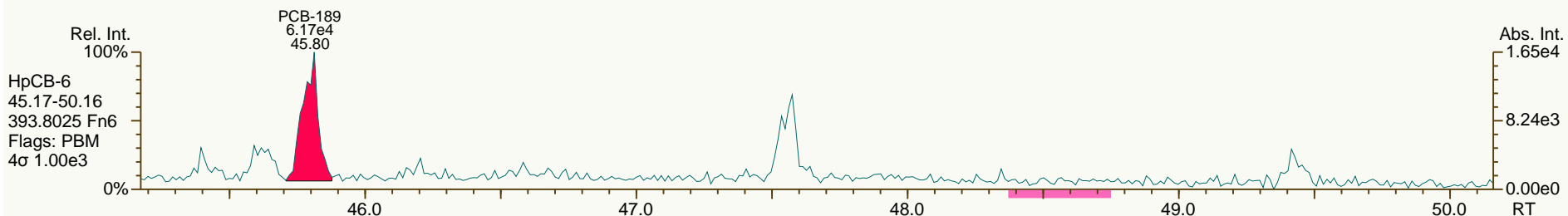
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SGS-AP ID: A6504\_11892\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 27-Mar-2014 00:47:55  
 User: LKB Datafile: 140326X12



SGS-AP ID: A6504\_11892\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 27-Mar-2014 00:47:55  
 User: LKB Datafile: 140326X12



SGS-AP ID: A6504\_11892\_PCB\_004  
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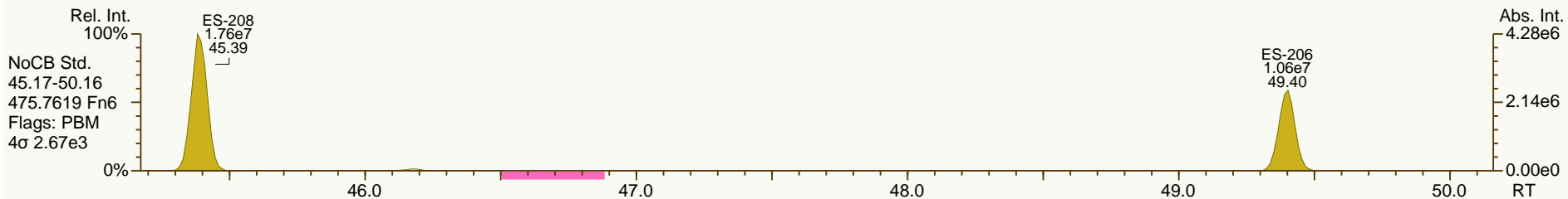
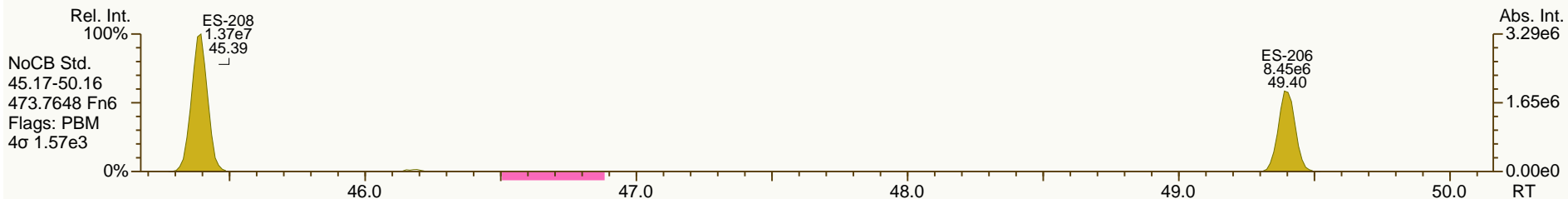
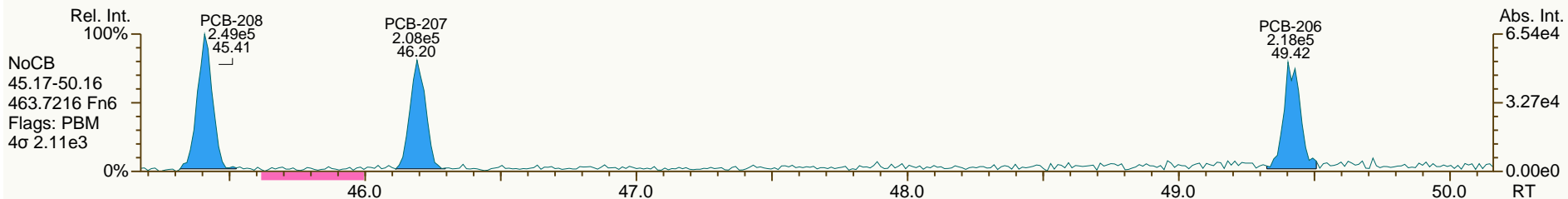
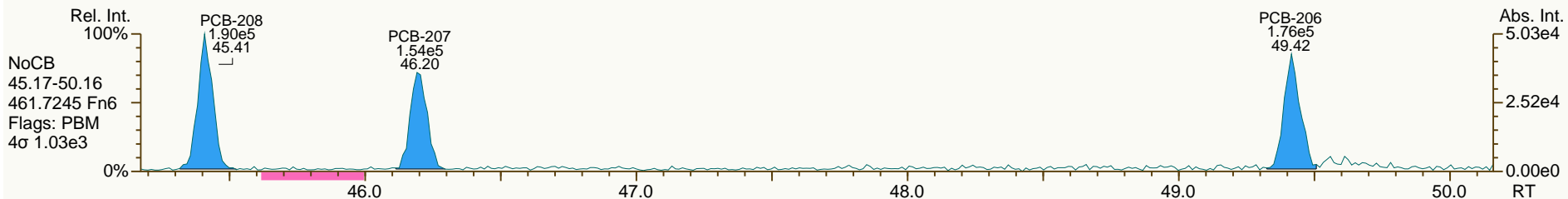
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SGS-AP ID: A6504\_11892\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

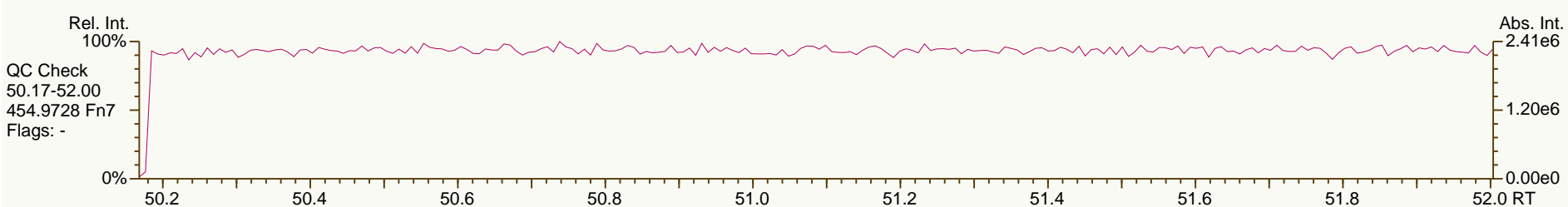
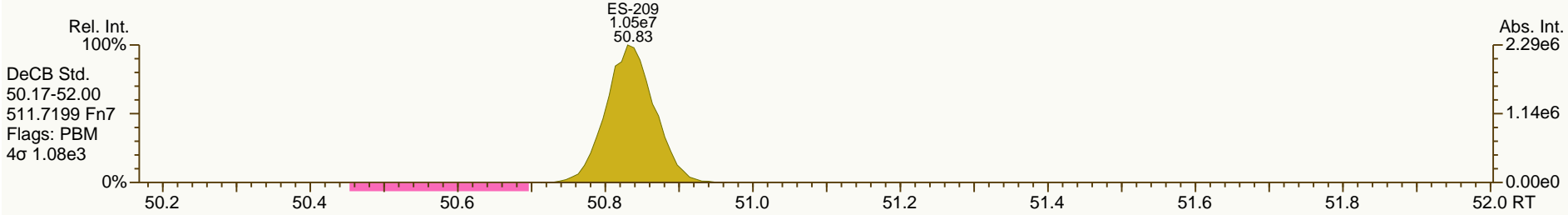
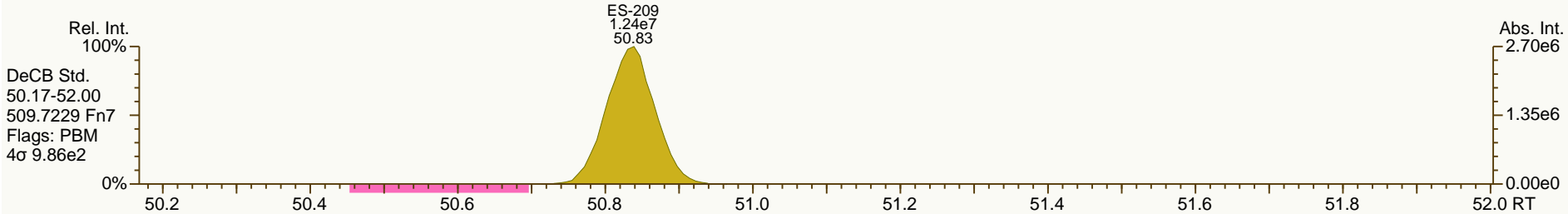
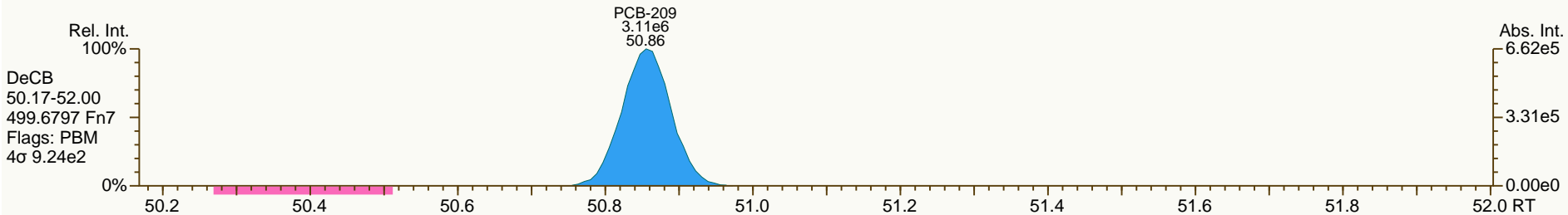
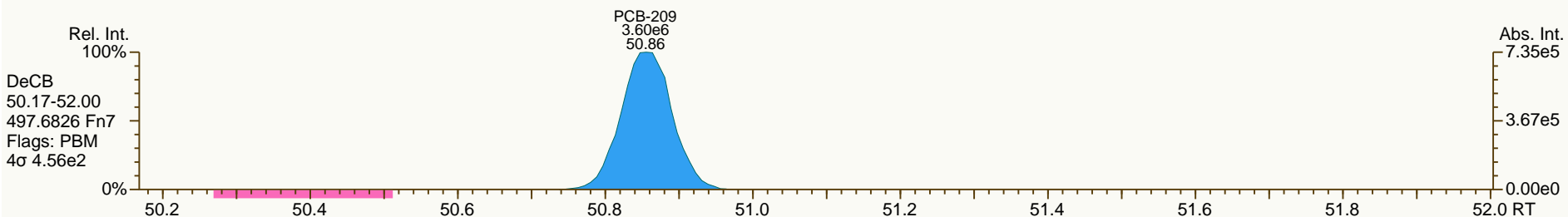
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SGS-AP ID: A6504\_11892\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 27-Mar-2014 00:47:55  
 User: LKB Datafile: 140326X12





Lab ID: A6504\_11892\_PCB\_005

ACQ: 27-Mar-2014 01:43:07 LKB

Wt/Vol: 0.96 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140326\_PCB\_XC

Client ID: PB056\_C-1SWMID-140313-N (DISSOLVED)

UTP: 31-Mar-2014 16:34 CEM

J-level: 10.4 pg/L Split: 1

Checkcode: 681-037-MXQ

Datafile: 140326X13

RPT: 31-Mar-2014 18:58 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.80		1.0006	1.0006	0	1.37E+06	0.80	1.15	46.6	4.45E+03	1.58
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.45E+03	1.67
PCB-105 233'44'-PeCB	35.79		1.0007	1.0006	-0.2	2.59E+06	0.62	1.11	110	2.70E+03	1.18
PCB-114 2344'5'-PeCB	35.24	J	1.0006	1.0006	0	1.74E+05	0.62	1.20	6.7	2.70E+03	1.08
PCB-118 23'44'5'-PeCB	34.78		1.0006	1.0006	0	5.01E+06	0.62	1.19	199	2.70E+03	1.13
PCB-123 23'44'5'-PeCB	34.51	J	1.0007	1.0008	+0.2	1.37E+05	0.61	1.21	5.35	2.70E+03	1.04
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	1.79E+03	0.899
PCB-156/157 ...-HxCB	40.93	J C	1.0005	1.0002	-0.7	1.99E+05	1.25	1.10	9.76	1.32E+03	0.933
PCB-167 23'44'55'-HxCB	39.96	J	1.0006	1.0004	-0.5	7.02E+04	1.35	1.16	3.06	1.32E+03	0.621
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.32E+03	0.701
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.53E+03	0.874
PCB-209 DeCB	50.85		1.0004	1.0004	0	7.65E+05	1.16	1.11	65	1.17E+03	1.19
ES PCB-1	11.88		0.7244	0.7244	0	5.19E+07	3.29	1.19	54 %	15%	150%
ES PCB-3	14.17		0.8639	0.8640	+0.1	5.78E+07	3.35	1.09	66.2 %	15%	150%
ES PCB-4	14.43		0.8794	0.8793	-0.1	3.06E+07	1.60	0.52	72.8 %	25%	150%
ES PCB-15	20.14		1.2273	1.2275	+0.2	7.98E+07	1.56	1.04	95.2 %	25%	150%
ES PCB-19	17.51		1.0673	1.0673	0	3.53E+07	1.07	0.51	86.6 %	25%	150%
ES PCB-37	26.46		1.0788	1.0789	+0.2	6.24E+07	1.09	1.66	84.6 %	25%	150%
ES PCB-54	20.42		0.8328	0.8327	-0.1	3.60E+07	0.75	0.86	94.2 %	25%	150%
ES PCB-77	32.79		1.3366	1.3368	+0.4	5.32E+07	0.81	1.38	86.7 %	25%	150%
ES PCB-81	32.31		1.3172	1.3174	+0.4	5.14E+07	0.80	1.37	84.8 %	25%	150%
ES PCB-104	25.39		0.8324	0.8323	-0.2	3.56E+07	1.59	0.80	110 %	25%	150%
ES PCB-105	35.77		1.1721	1.1723	+0.4	4.42E+07	1.56	1.20	91.3 %	25%	150%
ES PCB-114	35.22		1.1544	1.1545	+0.2	4.49E+07	1.56	1.22	91.4 %	25%	150%
ES PCB-118	34.76		1.1392	1.1393	+0.2	4.40E+07	1.59	1.16	94.2 %	25%	150%
ES PCB-123	34.48		1.1300	1.1301	+0.2	4.42E+07	1.55	1.19	92.4 %	25%	150%
ES PCB-126	38.38		1.2577	1.2578	+0.2	3.86E+07	1.57	1.03	93.2 %	25%	150%
ES PCB-153	36.34		0.9716	0.9716	0	3.20E+07	1.29	1.11	92.3 %	25%	150%
ES PCB-155	30.34		0.8113	0.8112	-0.2	4.66E+07	1.30	1.59	94.8 %	25%	150%
ES PCB-156/157	40.92		1.0940	1.0941	+0.2	7.74E+07	1.29	1.60	78.2 %	25%	150%
ES PCB-167	39.94		1.0677	1.0678	+0.2	4.10E+07	1.29	1.67	79.5 %	25%	150%
ES PCB-169	43.64		1.1666	1.1666	0	3.56E+07	1.27	1.56	74 %	25%	150%
ES PCB-170	43.15		0.9080	0.9080	0	2.43E+07	1.04	0.95	91.7 %	25%	150%
ES PCB-180	42.08		0.8855	0.8855	0	3.00E+07	1.07	1.14	94.4 %	25%	150%
ES PCB-188	35.22		0.7411	0.7410	-0.2	3.23E+07	1.08	0.94	111 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	3.46E+07	1.03	1.58	93.5 %	25%	150%
ES PCB-202	39.75		0.8365	0.8365	0	3.13E+07	0.91	0.97	104 %	25%	150%
ES PCB-205	47.92		1.0084	1.0084	0	2.53E+07	0.91	1.24	86.8 %	25%	150%
ES PCB-206	49.39		1.0392	1.0392	0	1.78E+07	0.80	0.83	91.8 %	25%	150%
ES PCB-208	45.38		0.9548	0.9548	0	2.88E+07	0.80	1.17	105 %	25%	150%
ES PCB-209	50.82		1.0694	1.0694	0	2.20E+07	1.18	1.11	84.7 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.90		0.9339	0.9339	0	6.92E+07	1.10	1.11	99.9 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	4.63E+07	1.56	1.03	102 %	30%	135%
SS PCB-178	37.78		1.0100	1.0101	+0.2	2.00E+07	1.08	0.62	100 %	30%	135%
CS PCB-28	22.90		0.9339	0.9339	0	6.92E+07	1.10	1.85	84.5 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	4.63E+07	1.56	1.22	94.1 %	30%	135%
CS PCB-178	37.78		1.0100	1.0101	+0.2	2.00E+07	1.08	0.58	111 %	30%	135%
JS PCB-9	16.41					8.05E+07	1.56				
JS PCB-52	24.52					4.43E+07	0.79				
JS PCB-101	30.51					4.03E+07	1.63				
JS PCB-138	37.41					3.09E+07	1.26				
JS PCB-194	47.52					2.34E+07	0.88				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	31.4	31.4	1.36		
						Di-CBs	463	463	2.09		
						Tri-CBs	4,650	4,660	2.24		
						Tetra-CBs	8,380	8,380	1.26		
						Penta-CBs	2,140	2,170	0.983		
						Hexa-CBs	357	368	0.675		
						Hepta-CBs	65.2	88.5	0.924		
						Octa-CBs	7.41	17.2	0.982		
						Nona-CBs	11.9	11.9	2.63		
PCB-1 2-MoCB	11.90		1.0011	1.0012	+0.1	6.27E+05	3.09	0.95	26.4	5.28E+03	1.37
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	5.28E+03	1.21
PCB-3 4-MoCB	14.19	J	1.0010	1.0009	-0.1	1.39E+05	3.18	1.01	4.96	5.28E+03	1.34
PCB-4 22'-DiCB	14.44		1.0011	1.0011	0	3.09E+06	1.53	1.23	170	5.46E+03	2.2
PCB-10 26-DiCB	14.62	J	1.0135	1.0135	0	2.10E+05	SI	1.92	7.43	5.46E+03	1.41
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		0.96	ND	8.68E+03	2.1
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	8.68E+03	1.83
PCB-6 23'-DiCB	16.81		1.0249	1.0248	-0.1	1.31E+06	1.52	1.01	33.7	8.68E+03	1.99
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	8.68E+03	1.99
PCB-8 24'-DiCB	17.24		1.0505	1.0506	+0.1	5.53E+06	1.64	1.06	136	8.68E+03	1.9
PCB-14 35-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	8.68E+03	1.66
PCB-11 33'-DiCB	19.58	B	0.9721	0.9721	0	9.93E+05	1.44	1.06	24.3	8.68E+03	1.9
PCB-13/12 34' /34-DiCB	19.85	J C	0.9866	0.9857	-1.1	4.65E+05	1.37	1.05	11.6	8.68E+03	1.92
PCB-15 44'-DiCB	20.15		1.0008	1.0006	-0.2	3.13E+06	1.55	1.02	80	8.68E+03	1.98
PCB-19 22'6-TrCB	17.53		1.0010	1.0011	+0.1	1.88E+06	1.12	1.15	96.7	6.06E+03	2.62
PCB-30/18 246/22'5-TrCB	19.29	C	1.1015	1.1019	+0.5	2.60E+07	1.05	1.54	995	6.06E+03	1.95
PCB-17 22'4-TrCB	19.69		1.1244	1.1245	+0.1	7.15E+06	1.03	1.32	321	6.06E+03	2.28
PCB-27 23'6-TrCB	19.88		1.1354	1.1355	+0.1	1.69E+06	1.09	1.79	55.5	6.06E+03	1.67
PCB-24 236-TrCB	20.01	J EMPC	1.1430	1.1429	-0.1	1.67E+05	0.85	1.72	5.73	6.06E+03	1.75
PCB-16 22'3-TrCB	20.11		1.1485	1.1486	+0.1	5.65E+06	1.06	0.98	340	6.06E+03	3.06

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.59		1.1759	1.1761	+0.2	8.96E+06	1.06	1.92	275	6.06E+03	1.56
PCB-34 23'5'-TrCB	21.74	J	0.8218	0.8215	-0.4	1.34E+05	1.04	1.23	3.65	6.14E+03	1.63
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	6.14E+03	1.61
PCB-26/29 23'5'/245-TrCB	22.15		0.8382	0.8372	-1.3	5.17E+06	1.03	1.27	136	6.14E+03	1.58
PCB-25 23'4-TrCB	22.37		0.8457	0.8456	-0.1	2.03E+06	1.01	1.27	53.3	6.14E+03	1.57
PCB-31 24'5-TrCB	22.65		0.8562	0.8561	-0.1	3.56E+07	1.00	1.33	894	6.14E+03	1.51
PCB-28/20 244'/233'-TrCB	22.93	C	0.8669	0.8664	-0.7	3.02E+07	1.00	1.23	818	6.14E+03	1.62
PCB-21/33 234/23'4'-TrCB	23.14	C	0.8738	0.8745	+1.0	1.05E+07	1.00	1.27	277	6.14E+03	1.58
PCB-22 234'-TrCB	23.49		0.8879	0.8879	0	8.47E+06	1.04	1.18	239	6.14E+03	1.69
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	6.14E+03	1.55
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	6.14E+03	1.49
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	6.14E+03	1.65
PCB-35 33'4-TrCB	26.12		0.9871	0.9870	-0.2	4.31E+05	1.09	1.17	12.3	6.14E+03	1.71
PCB-37 344'-TrCB	26.48		1.0007	1.0009	+0.3	4.42E+06	0.97	1.08	137	6.14E+03	1.86
PCB-54 22'66'-TeCB	20.44	J	1.0010	1.0008	-0.2	8.94E+04	0.86	1.35	3.83	2.07E+03	0.704
PCB-50/53 22'46/22'56'-TeCB	22.40	C	1.0145	0.9134	-1.5	5.34E+06	0.78	0.91	238	2.51E+03	1.17
PCB-45 22'36-TeCB	23.02		0.9385	0.9385	0	4.62E+06	0.78	0.82	227	2.51E+03	1.29
PCB-51 22'46'-TeCB	23.09		0.9414	0.9415	+0.1	1.27E+06	0.80	0.88	58.4	2.51E+03	1.21
PCB-46 22'36'-TeCB	23.29		0.9499	0.9498	-0.1	1.51E+06	0.80	0.73	83.3	2.51E+03	1.44
PCB-52 22'55'-TeCB	24.55		1.0009	1.0009	0	3.29E+07	0.79	0.89	1,490	2.51E+03	1.18
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.51E+03	0.899
PCB-43 22'35-TeCB	24.76		1.0100	1.0098	-0.3	8.86E+05	0.80	0.76	47	2.51E+03	1.38
PCB-69/49 23'46/22'45'-TeCB	24.99	C	1.0181	1.0189	+1.2	1.88E+07	0.77	1.09	697	2.51E+03	0.97
PCB-48 22'45-TeCB	25.25		1.0296	1.0295	-0.2	5.32E+06	0.77	0.89	242	2.51E+03	1.19
PCB-44/47/65 ...-TeCB	25.44	C	1.0384	1.0373	-1.7	2.73E+07	0.79	0.95	1,170	2.51E+03	1.11
PCB-59/62/75 ...-TeCB	25.73	C	1.0497	1.0491	-0.9	2.59E+06	0.78	1.24	84.3	2.51E+03	0.851
PCB-42 22'34'-TeCB	25.91		1.0563	1.0564	+0.2	5.74E+06	0.80	0.82	285	2.51E+03	1.29
PCB-41 22'34-TeCB	26.24		1.0700	1.0699	-0.2	1.72E+06	0.80	0.75	93.2	2.51E+03	1.41
PCB-71/40 23'4'6/22'33'-TeCB	26.34	C	1.0738	1.0739	+0.2	1.14E+07	0.78	0.91	510	2.51E+03	1.17
PCB-64 234'6-TeCB	26.53		1.0819	1.0819	0	1.49E+07	0.79	1.31	461	2.51E+03	0.805
PCB-72 23'55'-TeCB	27.25	J	0.8435	0.8435	0	1.44E+05	0.76	1.27	4.59	4.45E+03	1.48
PCB-68 23'45'-TeCB	27.51		0.8514	0.8514	0	5.46E+05	0.78	1.32	16.7	4.45E+03	1.41
PCB-57 233'5-TeCB	27.88	J	0.8630	0.8629	-0.2	9.89E+04	0.83	1.21	3.32	4.45E+03	1.55
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	4.45E+03	1.53
PCB-67 23'45-TeCB	28.24		0.8741	0.8740	-0.2	5.90E+05	0.75	1.29	18.5	4.45E+03	1.45
PCB-63 234'5-TeCB	28.47		0.8811	0.8810	-0.2	9.09E+05	0.78	1.36	27.1	4.45E+03	1.38
PCB-61/70/74/76 ...-TeCB	28.76	C	0.8901	0.8902	+0.2	3.99E+07	0.79	1.22	1,330	4.45E+03	1.54
PCB-66 23'44'-TeCB	29.04		0.8988	0.8987	-0.2	2.11E+07	0.80	1.17	729	4.45E+03	1.6
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	4.45E+03	1.63
PCB-56 233'4'-TeCB	29.62		0.9168	0.9168	0	1.00E+07	0.78	1.16	350	4.45E+03	1.62
PCB-60 2344'-TeCB	29.81		0.9228	0.9228	0	4.84E+06	0.81	1.17	168	4.45E+03	1.61
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	4.45E+03	1.36
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.32	ND	4.45E+03	1.42
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.45E+03	1.69
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.52E+03	0.576
PCB-96 22'366'-PeCB	25.73	J	1.0134	1.0134	0	1.79E+05	0.68	1.17	8.95	1.52E+03	0.708
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	2.70E+03	1.33
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.80	ND	2.70E+03	1.58

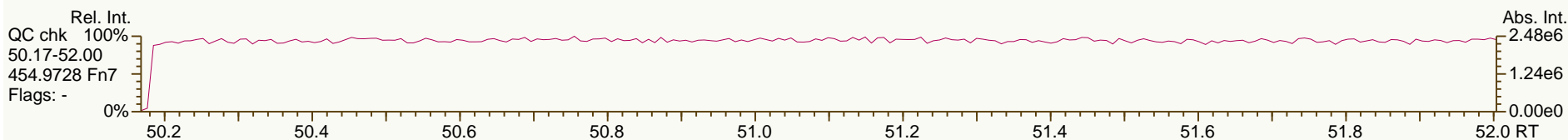
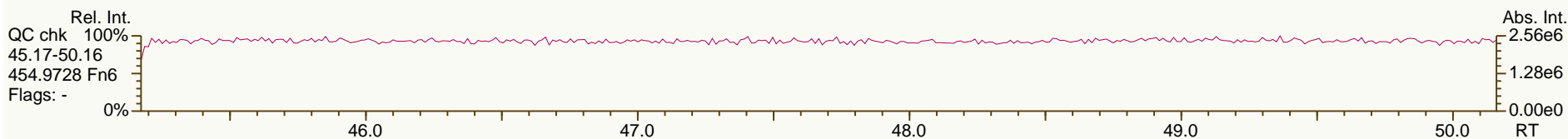
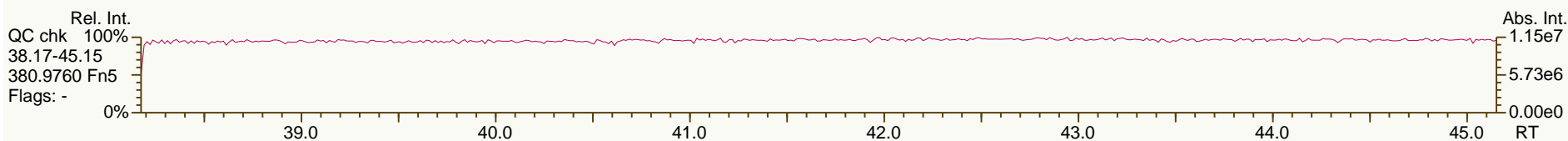
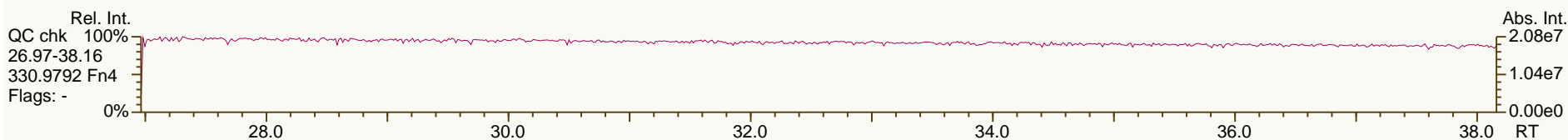
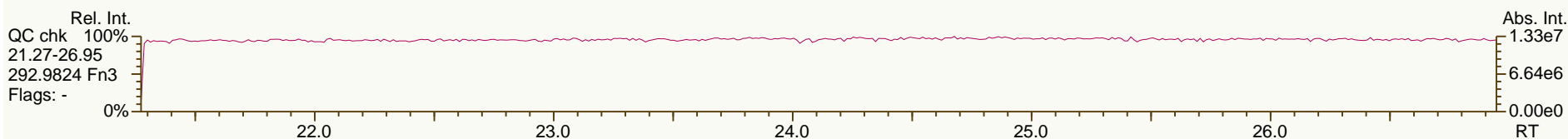
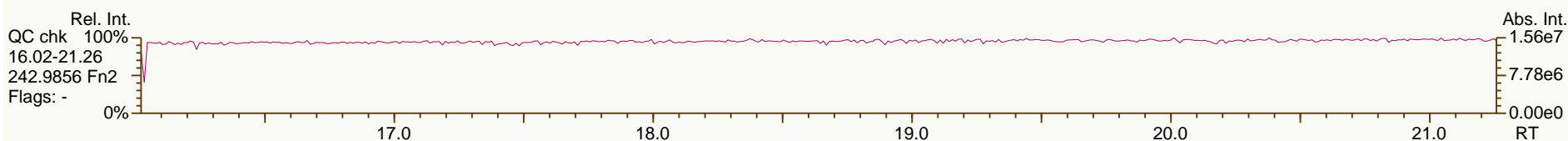
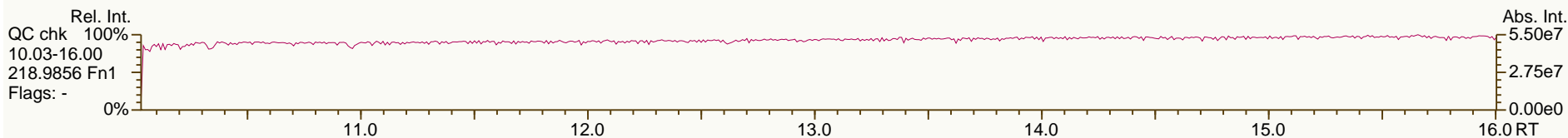
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.99		0.9176	0.9175	-0.2	5.39E+06	0.60	0.87	292	2.70E+03	1.45
PCB-100/93 22'44'6/22'356-PeCB	28.20	J EMPC C	0.9246	0.9242	-0.7	1.05E+05	0.72	0.88	5.66	2.70E+03	1.44
PCB-102 22'456'-PeCB	28.32		0.9282	0.9282	0	4.44E+05	0.63	0.88	23.8	2.70E+03	1.44
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	2.70E+03	1.48
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	2.70E+03	1.49
PCB-91 22'34'6-PeCB	28.75		0.9425	0.9424	-0.2	1.29E+06	0.60	0.86	70.7	2.70E+03	1.47
PCB-84 22'33'6-PeCB	28.95		0.9487	0.9487	0	1.90E+06	0.61	0.72	125	2.70E+03	1.76
PCB-89 22'346'-PeCB	29.37		0.9624	0.9625	+0.2	2.14E+05	0.65	0.78	13	2.70E+03	1.62
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.70E+03	1.04
PCB-92 22'355'-PeCB	30.02		0.9841	0.9840	-0.2	9.87E+05	0.64	0.84	55.1	2.70E+03	1.5
PCB-113/90/101 ...-PeCB	30.53	C	0.9999	1.0007	+1.5	6.09E+06	0.62	0.97	295	2.70E+03	1.3
PCB-83 22'33'5-PeCB	30.94	EMPC	1.0142	1.0140	-0.4	2.83E+05	0.71	0.66	20.2	2.70E+03	1.91
PCB-99 22'44'5-PeCB	31.04		1.0173	1.0174	+0.2	3.42E+06	0.62	0.98	164	2.70E+03	1.29
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	2.70E+03	1.09
PCB-108/119/86/97/125...-PeCB	31.51	C	1.0320	1.0329	+1.7	5.11E+06	0.62	0.98	247	2.70E+03	1.3
PCB-117 234'56-PeCB	32.00	J	1.0495	1.0489	-1.2	1.50E+05	0.70	1.09	6.51	2.70E+03	1.16
PCB-116/85 23456/22'344'-PeCB	32.10	C	1.0525	1.0520	-1.0	1.55E+06	0.61	0.97	75.6	2.70E+03	1.3
PCB-110 233'4'6-PeCB	32.23		1.0563	1.0564	+0.2	8.32E+06	0.61	1.10	357	2.70E+03	1.15
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	2.70E+03	1.13
PCB-82 22'33'4-PeCB	32.51		1.0656	1.0656	0	8.29E+05	0.63	0.69	56.2	2.70E+03	1.82
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	2.70E+03	1.05
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	2.70E+03	1.03
PCB-107/124 ...-PeCB	34.19	J C	0.9915	0.9917	+0.4	2.21E+05	0.61	1.10	9.47	2.70E+03	1.15
PCB-109 233'46-PeCB	34.40		0.9976	0.9977	+0.2	4.33E+05	0.59	1.22	16.7	2.70E+03	1.04
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	2.70E+03	1.17
PCB-122 233'4'5'-PeCB	35.08	J	1.0091	1.0091	0	1.16E+05	0.60	1.01	5.32	2.70E+03	1.28
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	2.70E+03	1.23
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.24E+03	0.443
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.24E+03	0.513
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.24E+03	0.499
PCB-136 22'33'66'-HxCB	30.97	EMPC	1.0207	1.0208	+0.2	2.58E+05	1.45	1.02	11.3	1.24E+03	0.545
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.24E+03	0.538
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.24E+03	0.74
PCB-151/135 ...-HxCB	33.03	C	1.0886	1.0885	-0.2	4.31E+05	1.29	1.06	26.5	1.24E+03	0.784
PCB-154 22'44'56'-HxCB	NotFnd		1.0955	-		0.00E+00		1.26	ND	1.24E+03	0.662
PCB-144 22'345'6-HxCB	33.51	J	1.1042	1.1043	+0.2	6.72E+04	1.30	1.10	3.96	1.24E+03	0.754
PCB-147/149 ...-HxCB	33.80	C	1.1142	1.1141	-0.2	1.07E+06	1.29	1.10	63.4	1.24E+03	0.755
PCB-134 22'33'56-HxCB	33.99	J	1.1199	1.1203	+0.8	7.29E+04	1.14	0.81	5.83	1.24E+03	1.02
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.24E+03	0.76
PCB-139/140 ...-HxCB	NotFnd	C	1.1313	-		0.00E+00		1.11	ND	1.24E+03	0.748
PCB-131 22'33'46-HxCB	NotFnd		1.1370	-		0.00E+00		0.94	ND	1.24E+03	0.881
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.24E+03	0.901
PCB-132 22'33'46'-HxCB	34.88		1.1495	1.1495	0	4.50E+05	1.24	0.97	30.2	1.24E+03	0.856
PCB-133 22'33'55'-HxCB	NotFnd		1.1628	-		0.00E+00		1.04	ND	1.24E+03	0.801
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.24E+03	0.63
PCB-146 22'34'55'-HxCB	35.84		0.9582	0.9581	-0.2	2.12E+05	1.24	1.16	11.9	1.24E+03	0.718
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.24E+03	0.584
PCB-153/168 ...-HxCB	36.36	C	0.9728	0.9721	-1.5	1.27E+06	1.19	1.38	59.7	1.24E+03	0.601

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.53		0.9767	0.9766	-0.2	2.26E+05	1.29	1.01	14.6	1.24E+03	0.825
PCB-130 22'33'45'-HxCB	36.88	J	0.9859	0.9859	0	9.58E+04	1.31	0.91	6.86	1.24E+03	0.914
PCB-137 22'344'5-HxCB	37.06	J	0.9912	0.9908	-0.9	7.58E+04	1.41	1.15	4.29	1.24E+03	0.724
PCB-164 233'4'5'6-HxCB	37.15	J	0.9934	0.9933	-0.2	1.34E+05	1.25	1.37	6.38	1.24E+03	0.606
PCB-163/138/129 ...-HxCB	37.43	C	1.0011	1.0007	-0.9	1.51E+06	1.27	1.12	87.4	1.24E+03	0.739
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.24E+03	0.656
PCB-158 233'44'6-HxCB	37.76	J	1.0096	1.0096	0	2.19E+05	1.29	1.49	9.56	1.24E+03	0.558
PCB-128/166 ...-HxCB	38.51	J C	0.9640	0.9643	+0.7	2.36E+05	1.30	0.89	13.5	1.32E+03	0.815
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.32E+03	0.672
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.32E+03	0.675
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.09E+03	0.553
PCB-179 22'33'566'-HpCB	35.52	J	1.0086	1.0085	-0.2	9.78E+04	1.12	1.09	5.81	1.09E+03	0.647
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.09E+03	0.673
PCB-176 22'33'466'-HpCB	36.28	J	1.0300	1.0301	+0.2	2.97E+04	0.92	1.15	1.66	1.09E+03	0.609
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.09E+03	0.65
PCB-178 22'33'55'6-HpCB	37.81	J	1.0733	1.0736	+0.7	3.39E+04	0.90	0.75	2.9	1.09E+03	0.931
PCB-175 22'33'45'6-HpCB	NotFnd		1.0888	-		0.00E+00		1.09	ND	1.68E+03	1.08
PCB-187 22'34'55'6-HpCB	38.57	EMPC	1.0953	1.0953	0	2.18E+05	1.20	1.17	13	1.68E+03	1.01
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.68E+03	0.985
PCB-183 22'344'5'6-HpCB	39.10	J	1.1101	1.1102	+0.2	1.15E+05	0.91	1.23	6.5	1.68E+03	0.959
PCB-185 22'3455'6-HpCB	NotFnd		1.1125	-		0.00E+00		1.05	ND	1.68E+03	1.12
PCB-174 22'33'456'-HpCB	39.29	EMPC	1.1156	1.1157	+0.2	1.51E+05	1.37	1.01	10.4	1.68E+03	1.17
PCB-177 22'33'45'6'-HpCB	39.67	J	1.1263	1.1263	0	1.05E+05	1.10	0.96	7.6	1.68E+03	1.23
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.68E+03	1.09
PCB-171/173 ...-HpCB	40.21	J C	1.1414	1.1416	+0.5	6.69E+04	0.90	0.95	4.92	1.68E+03	1.25
PCB-172 22'33'455'-HpCB	NotFnd		0.9079	-		0.00E+00		0.99	ND	1.68E+03	1.19
PCB-192 233'455'6-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.68E+03	0.917
PCB-180/193 ...-HpCB	42.10	C	0.9193	0.9200	+1.8	3.95E+05	1.05	1.23	22.3	1.68E+03	0.956
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.68E+03	0.872
PCB-170 22'33'44'5-HpCB	43.17		0.9434	0.9434	0	1.49E+05	0.95	1.12	11.4	1.68E+03	1.34
PCB-190 233'44'56-HpCB	43.62	J	0.9533	0.9532	-0.3	3.71E+04	1.10	1.54	2.06	1.68E+03	0.964
PCB-202 22'33'55'66'-OoCB	39.77	J	1.0005	1.0004	-0.2	2.76E+04	0.93	1.05	1.74	1.35E+03	0.888
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.35E+03	0.838
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.35E+03	0.901
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.35E+03	0.859
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.35E+03	0.862
PCB-198/199 ...-OoCB	43.77	J EMPC C	1.1002	1.1009	+1.8	6.62E+04	1.16	0.72	6.1	1.35E+03	1.3
PCB-196 22'33'44'56'-OoCB	44.30	J	1.1147	1.1145	-0.5	3.19E+04	0.83	0.76	2.78	1.35E+03	1.23
PCB-203 22'344'55'6-OoCB	44.49	J	1.1189	1.1191	+0.5	3.38E+04	0.85	0.78	2.89	1.35E+03	1.2
PCB-195 22'33'44'56-OoCB	NotFnd		0.9516	-		0.00E+00		0.75	ND	1.29E+03	1.52
PCB-194 22'33'44'55'-OoCB	47.54	J EMPC	0.9921	0.9920	-0.3	3.67E+04	1.16	0.81	3.71	1.29E+03	1.4
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.29E+03	1.08
PCB-208 22'33'455'66'-NoCB	45.40	J	1.0005	1.0005	0	4.56E+04	0.85	1.12	2.93	2.92E+03	1.98
PCB-207 22'33'44'566'-NoCB	46.18	J	1.0178	1.0178	0	4.74E+04	0.80	1.14	3.01	2.92E+03	1.96
PCB-206 22'33'44'55'6-NoCB	49.41	J	1.0004	1.0005	+0.3	5.73E+04	0.82	1.11	6	2.92E+03	3.27

SGS-AP ID: A6504\_11892\_PCB\_005  
Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

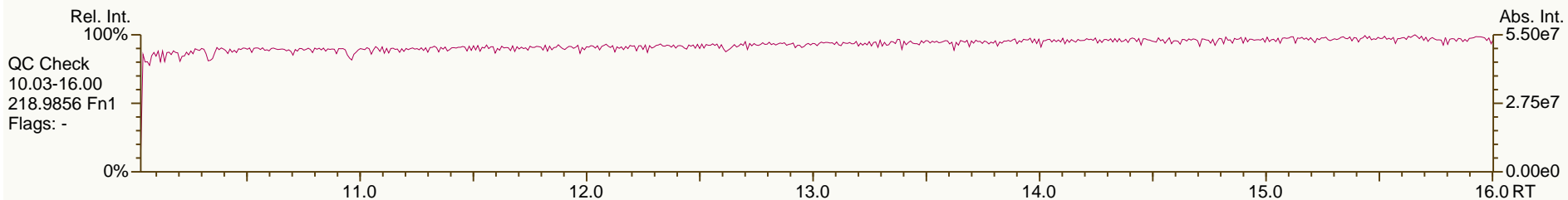
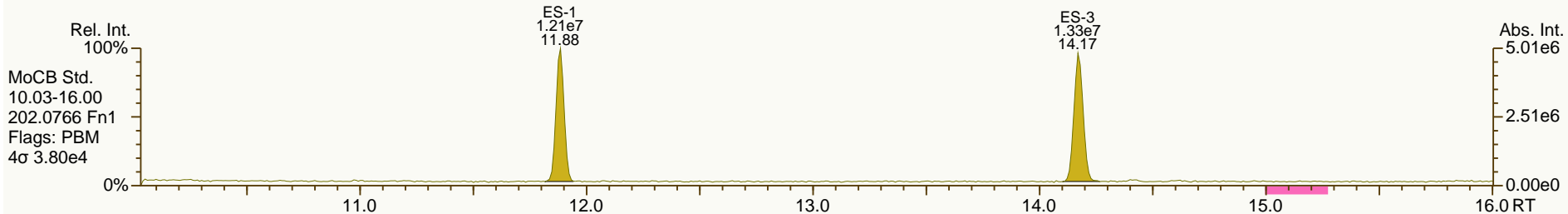
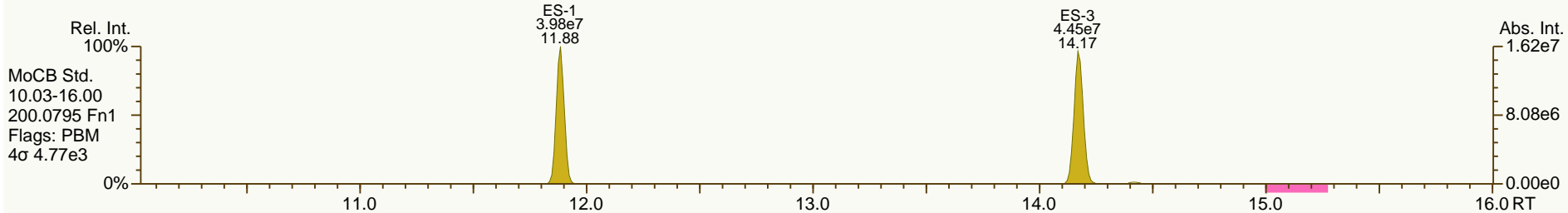
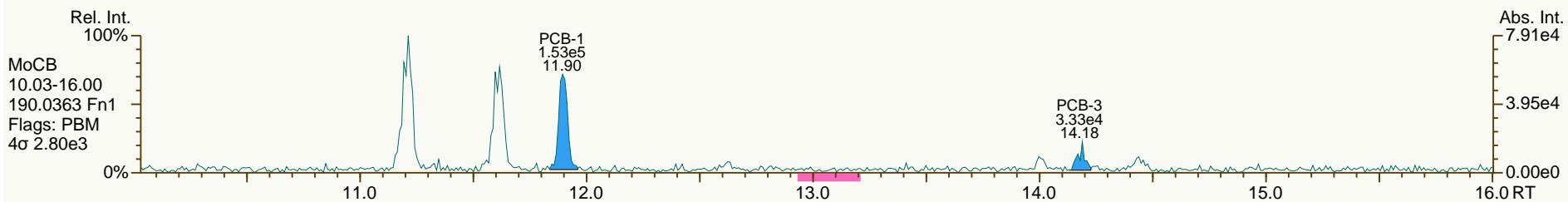
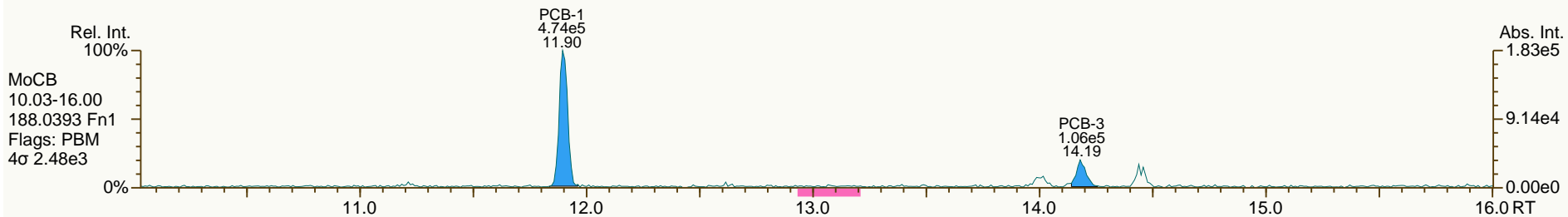
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SGS-AP ID: A6504\_11892\_PCB\_005  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

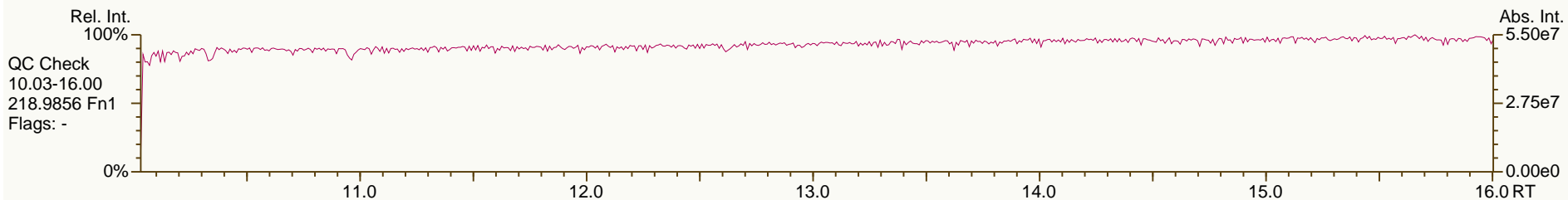
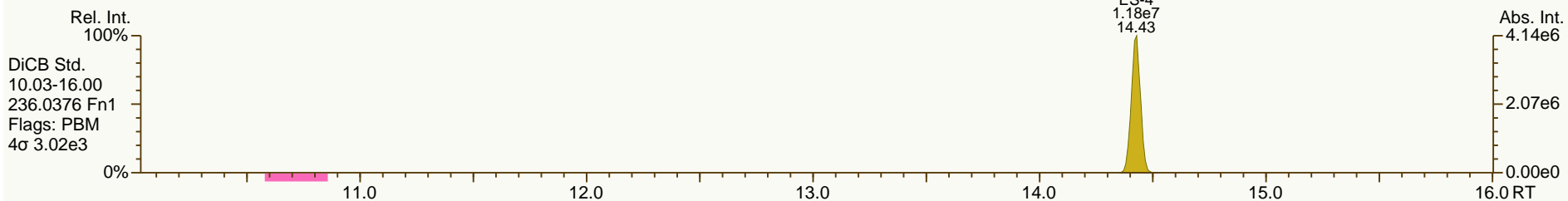
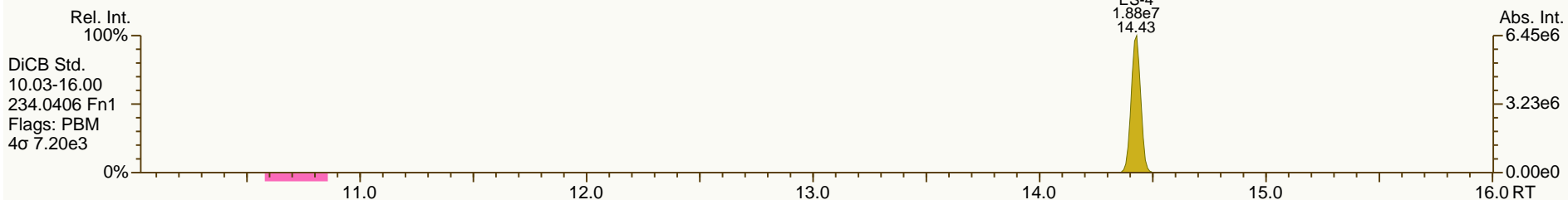
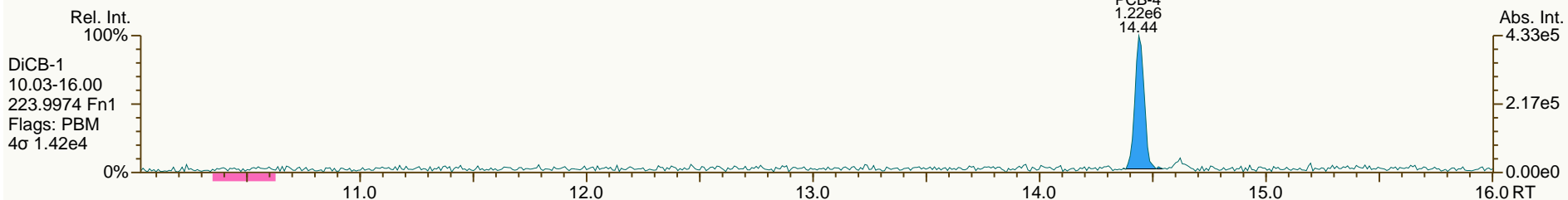
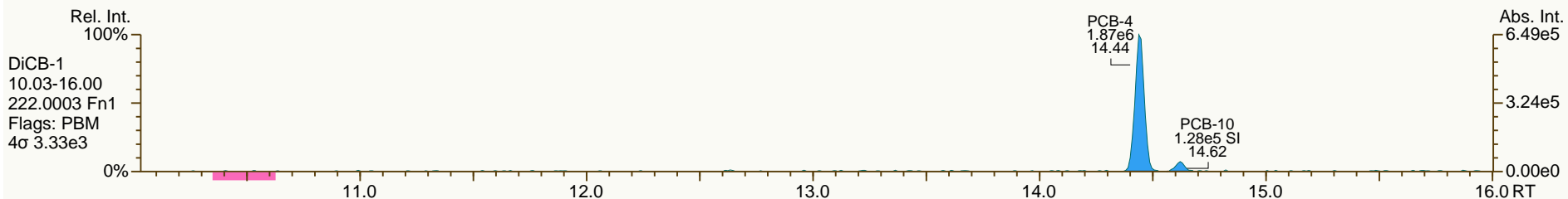
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SGS-AP ID: A6504\_11892\_PCB\_005  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)  
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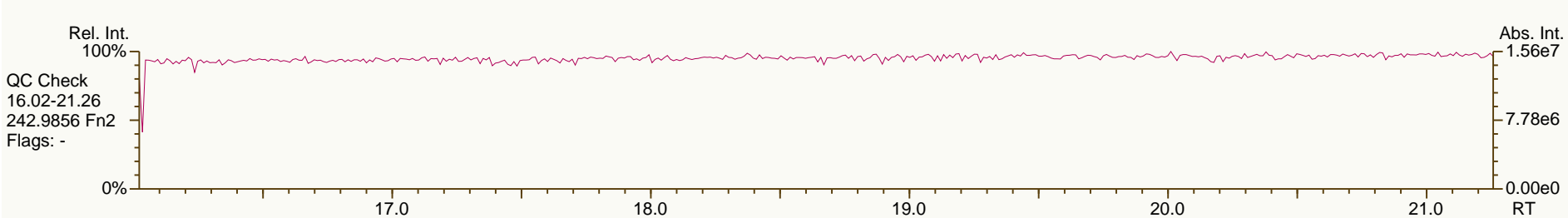
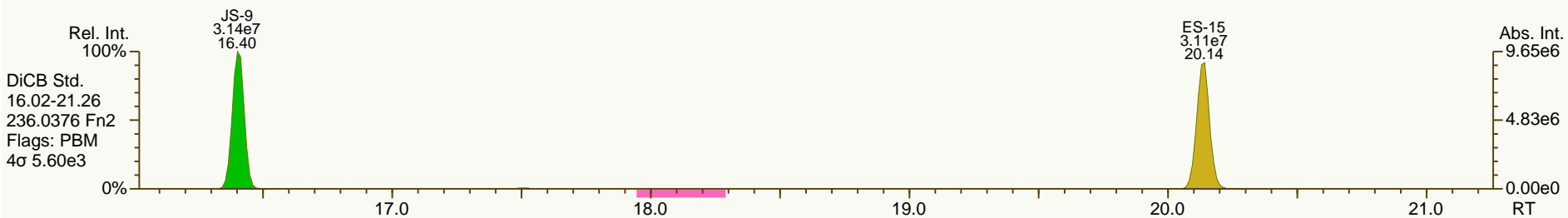
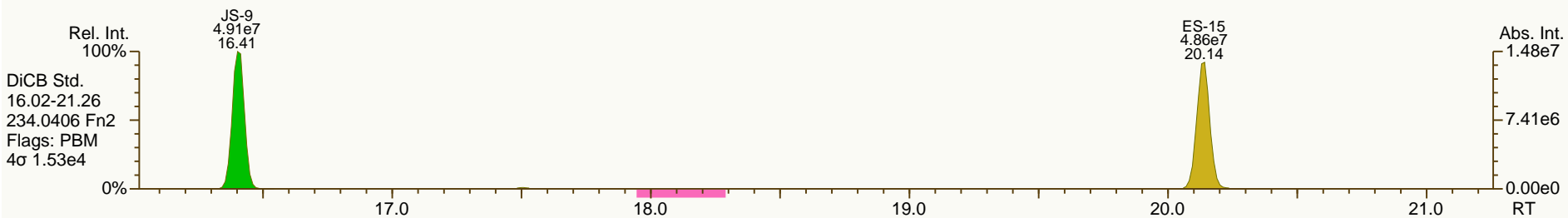
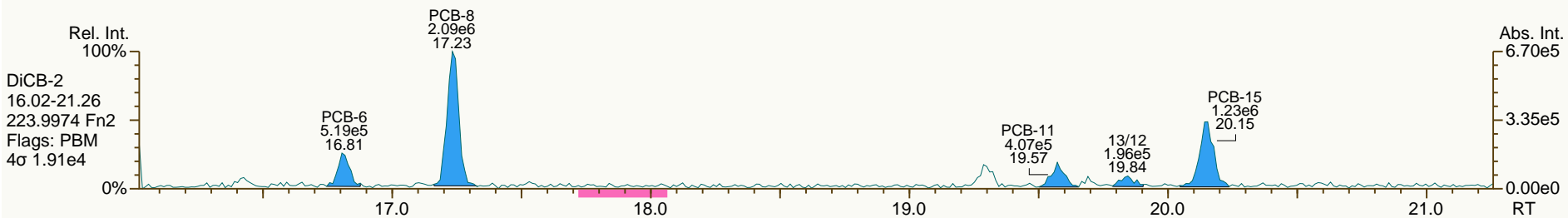
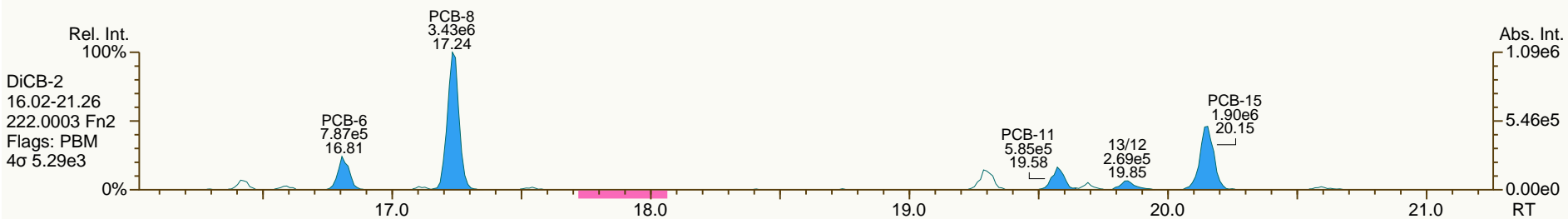




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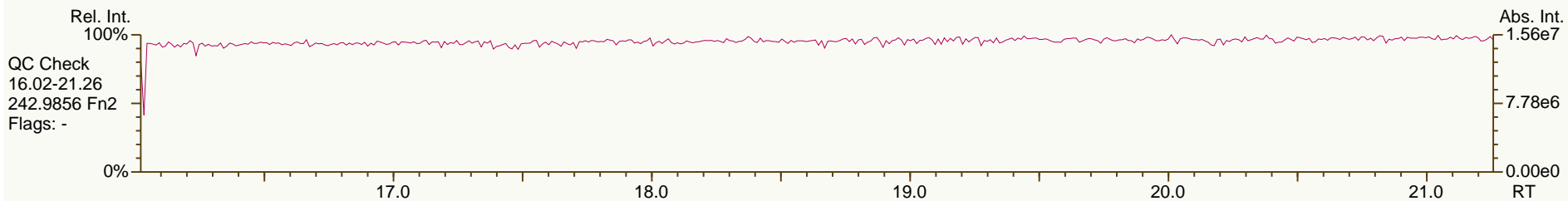
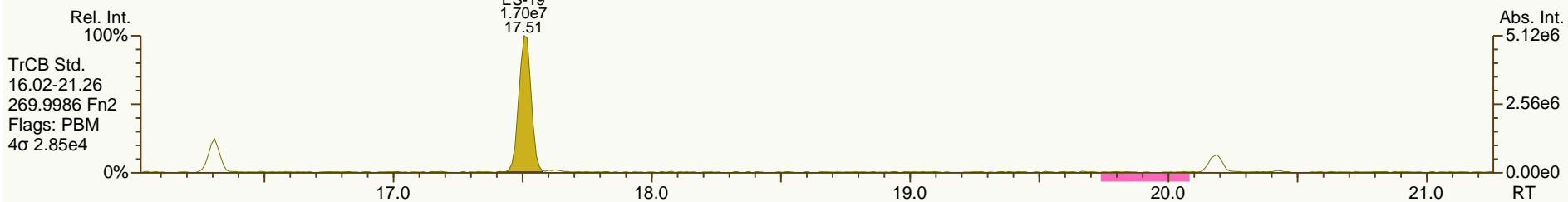
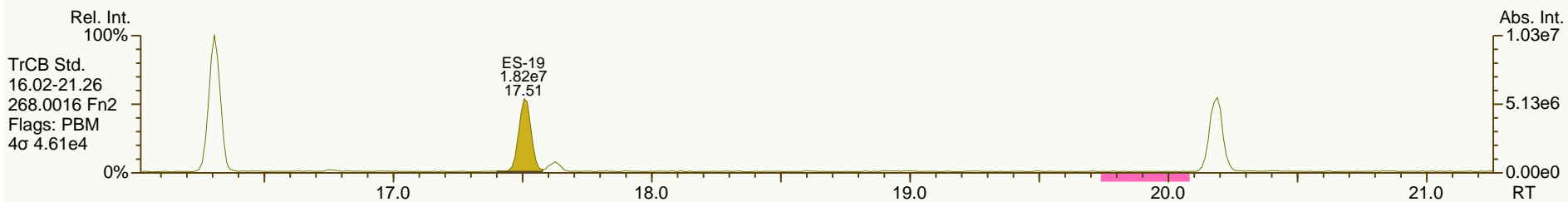
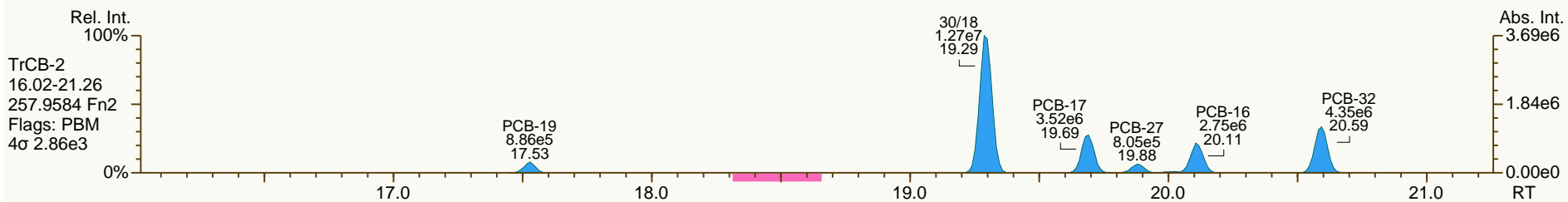
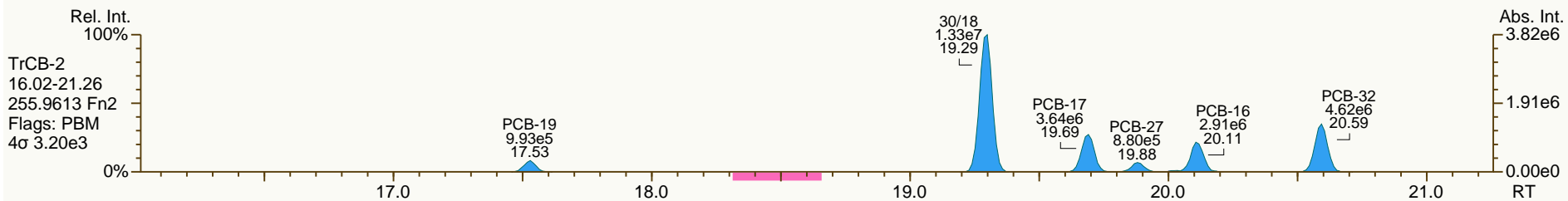
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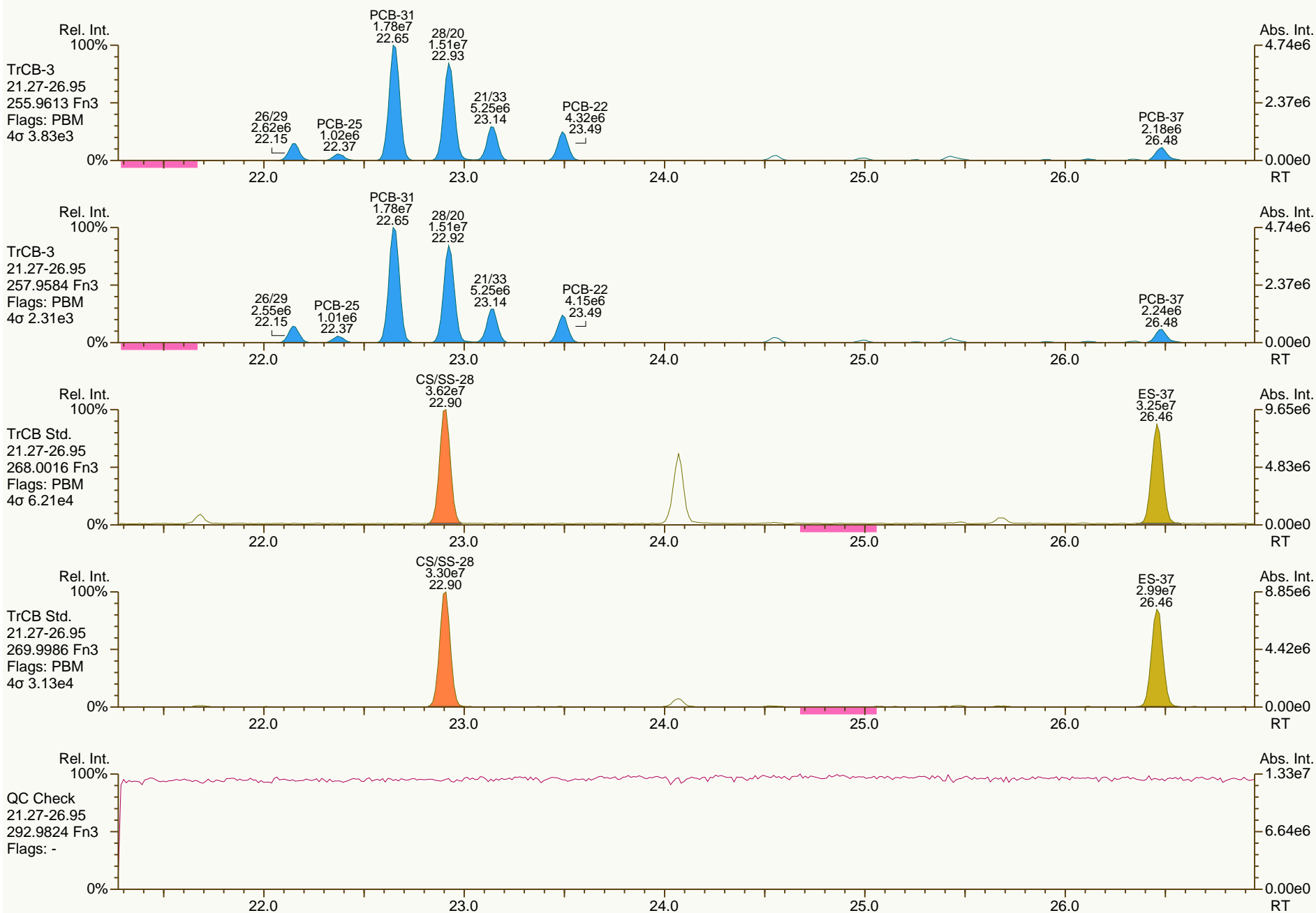
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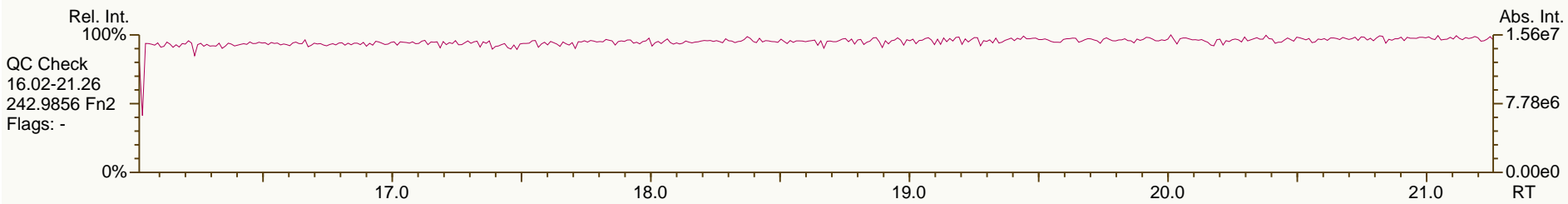
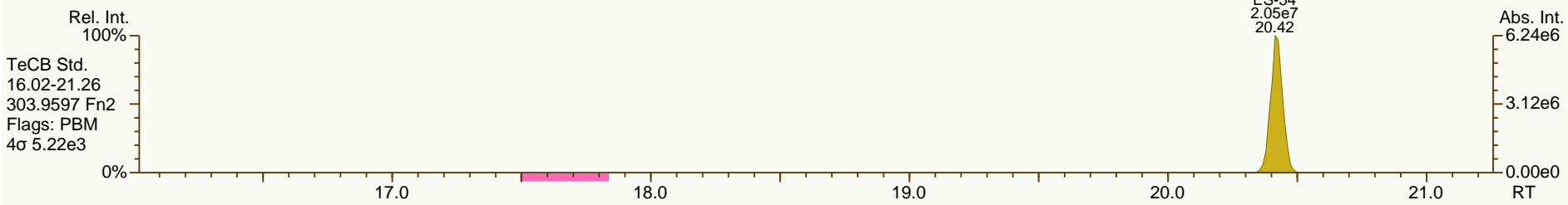
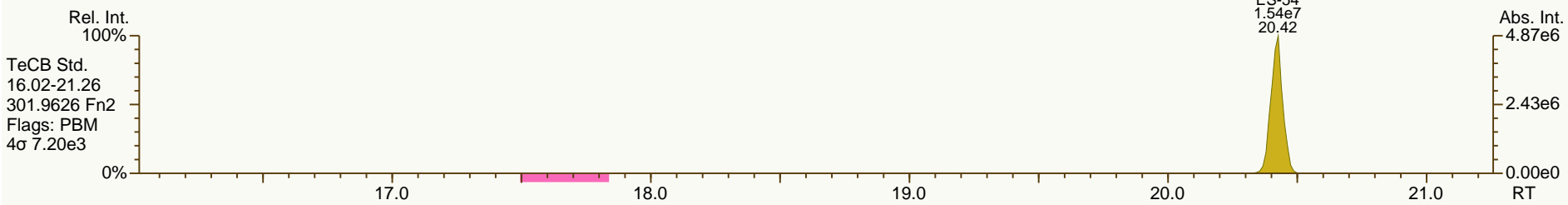
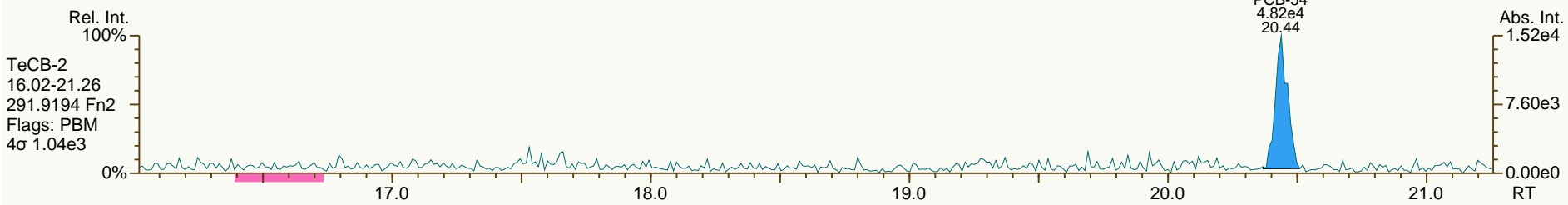
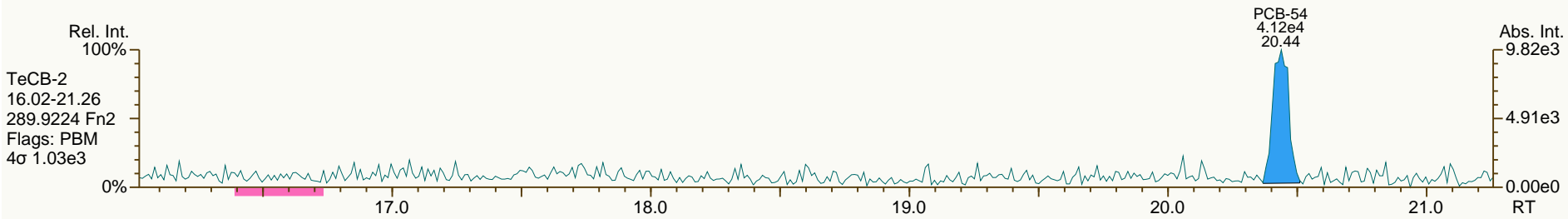
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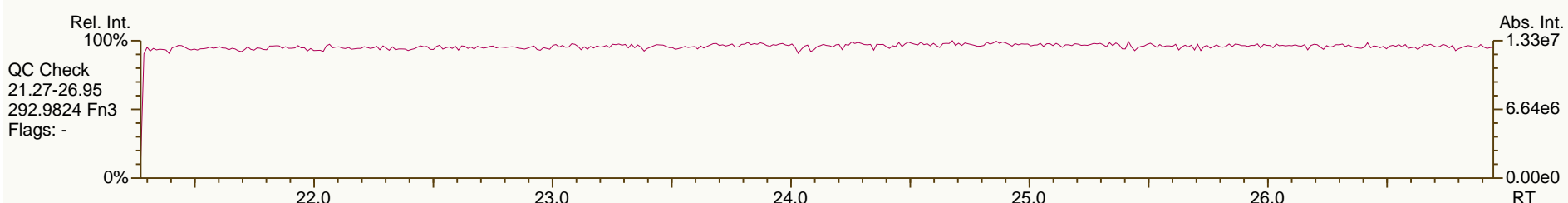
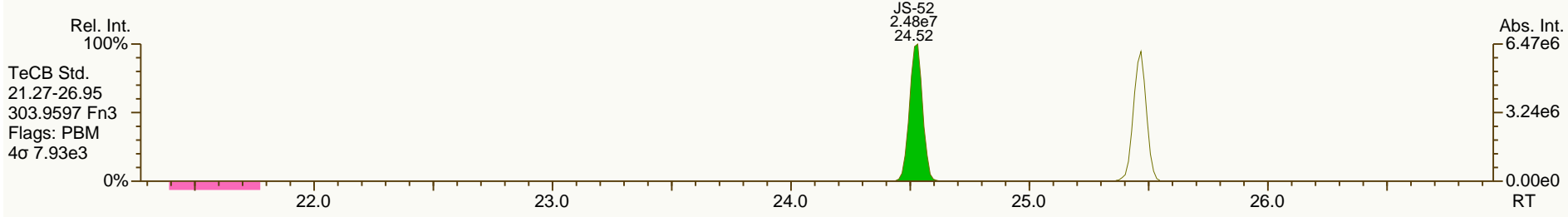
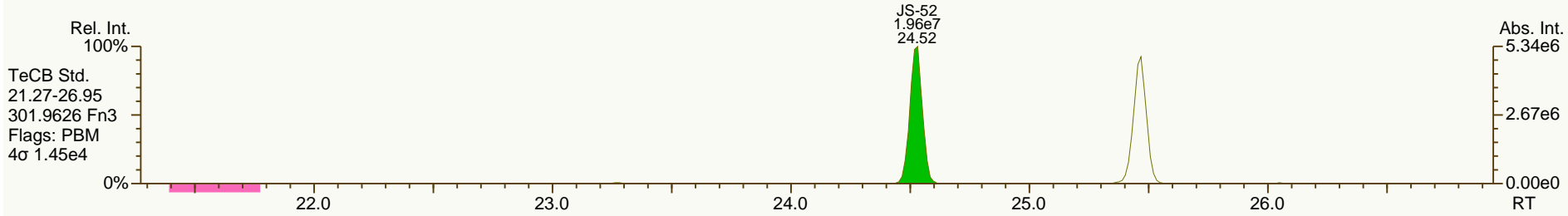
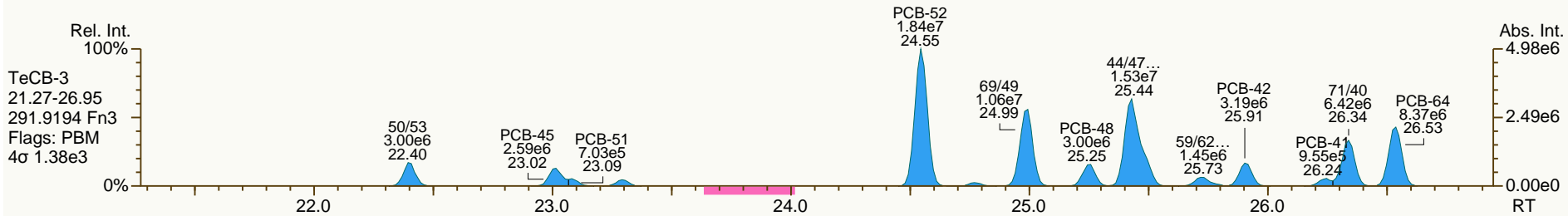
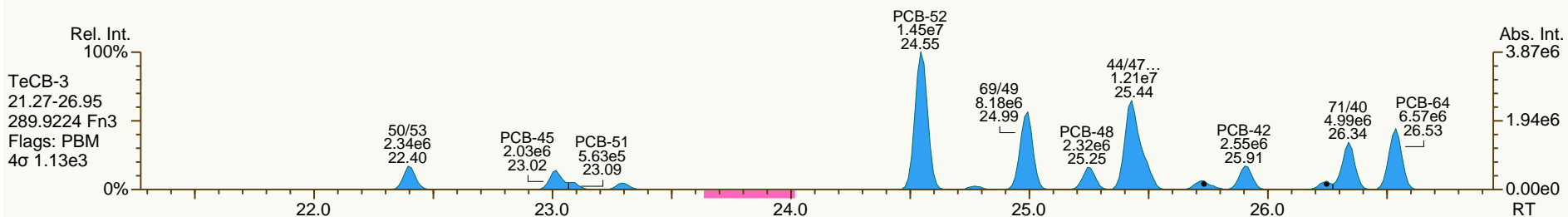
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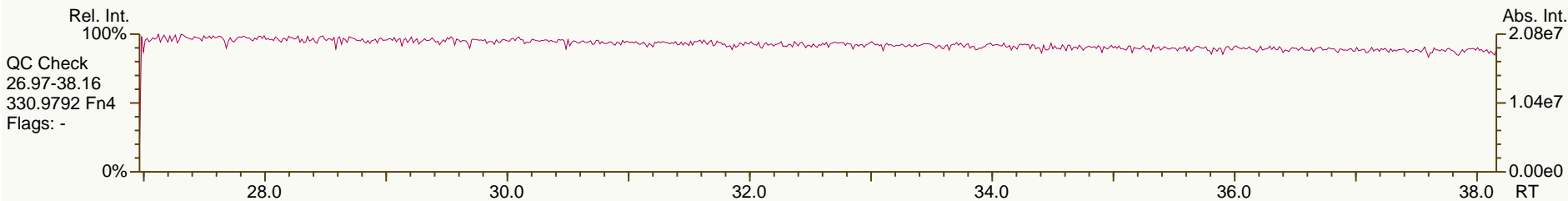
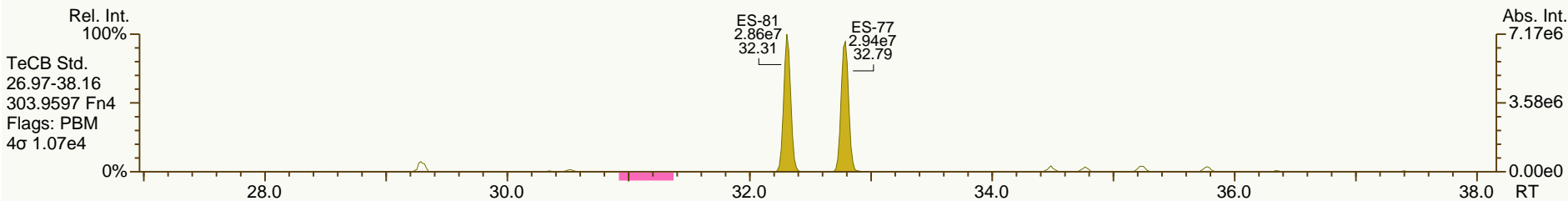
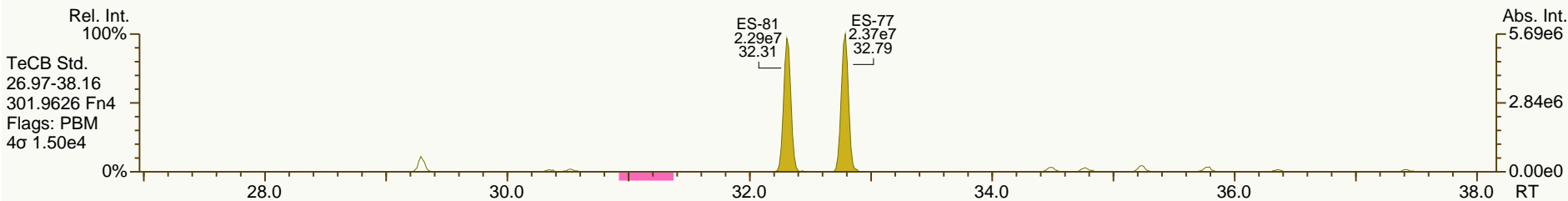
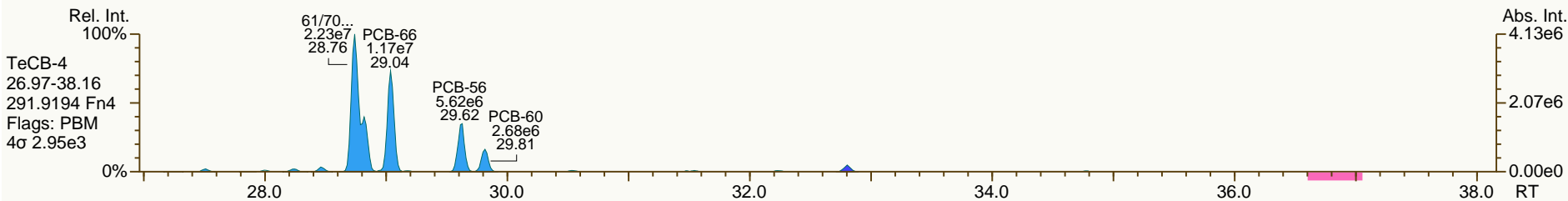
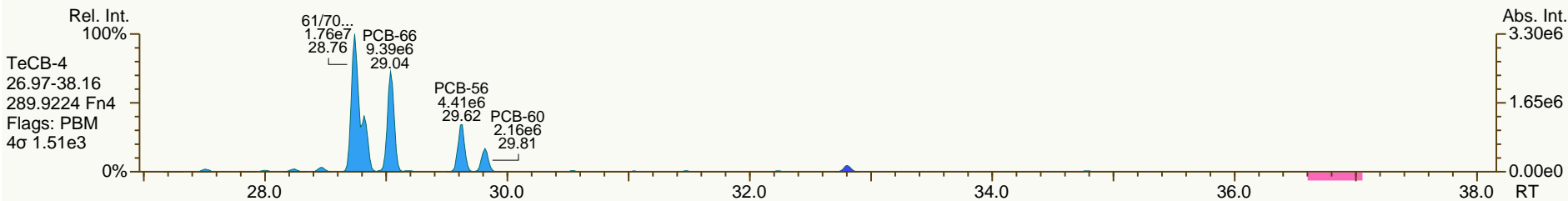
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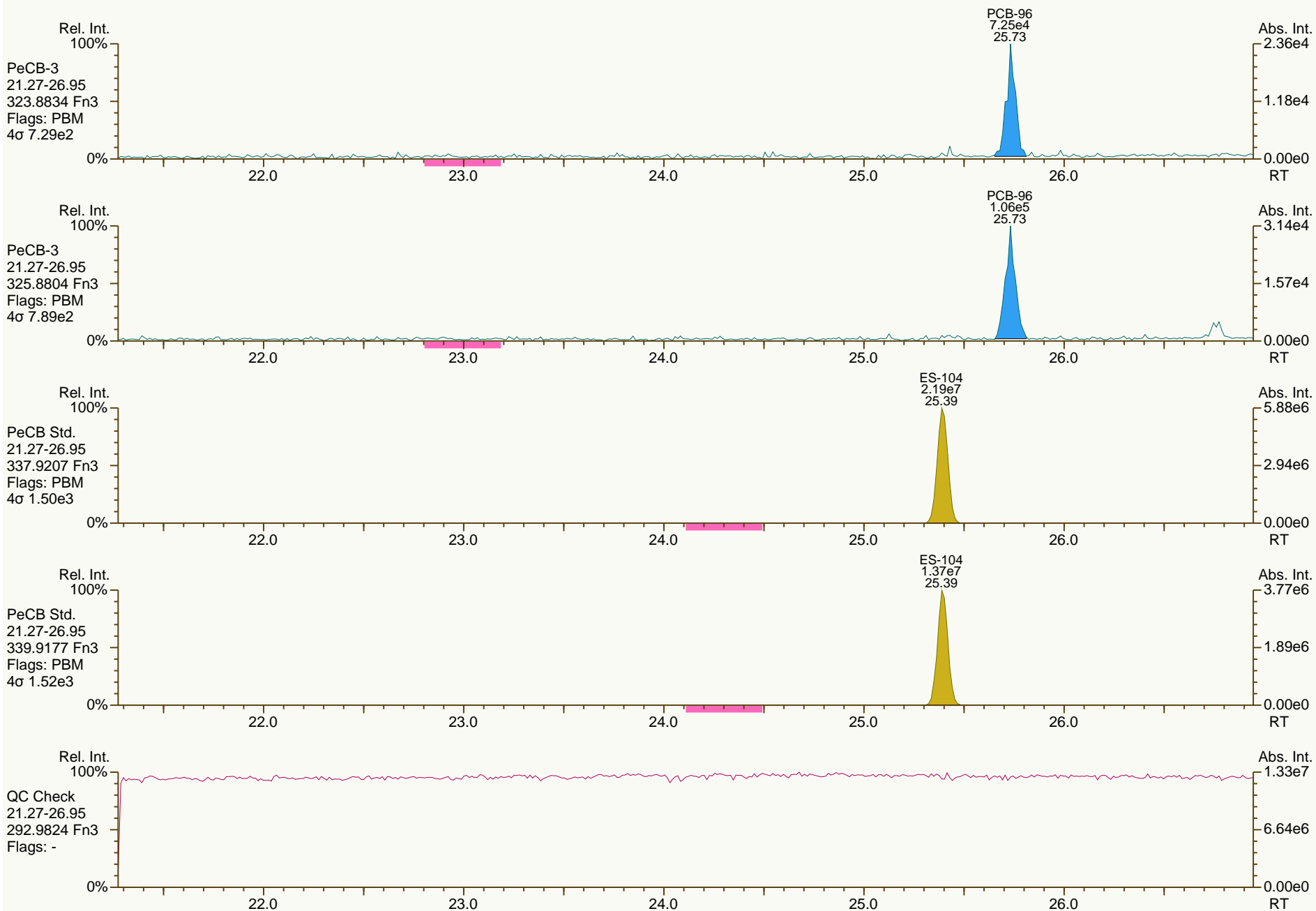
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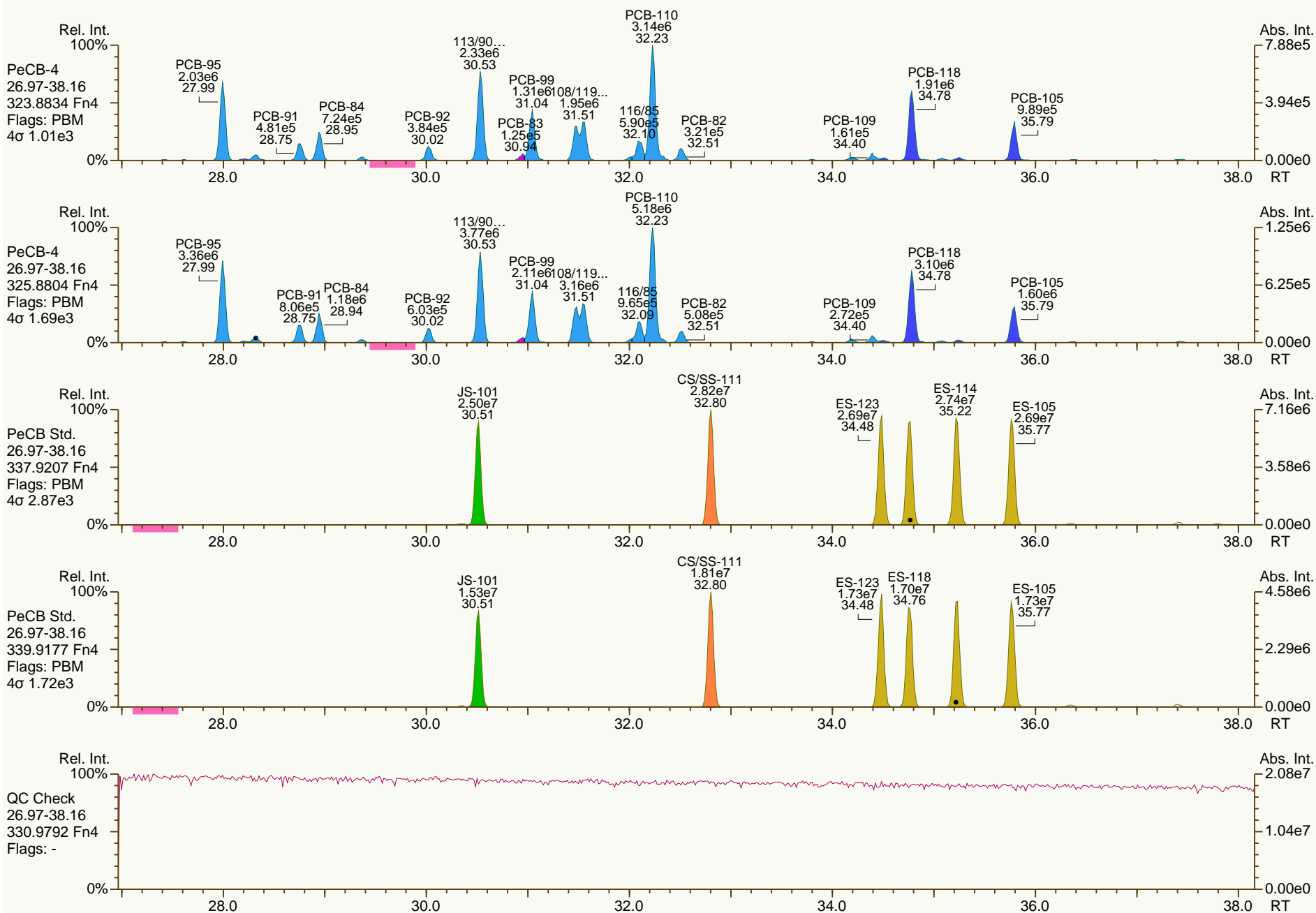
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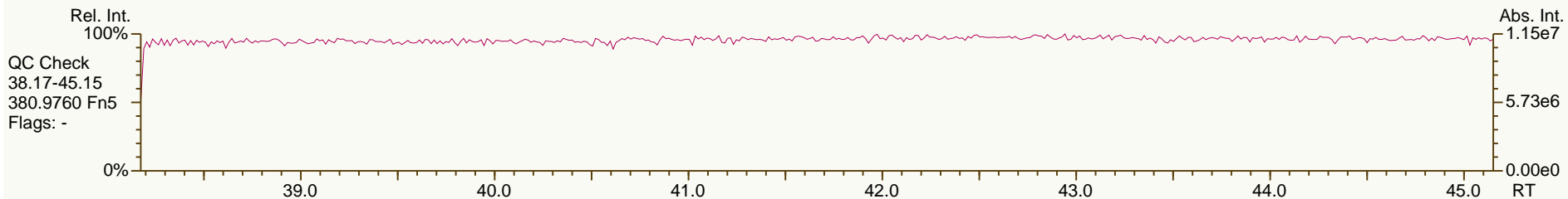
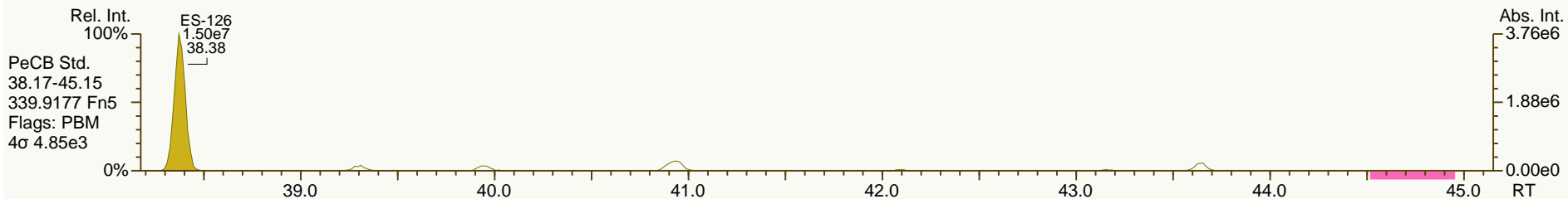
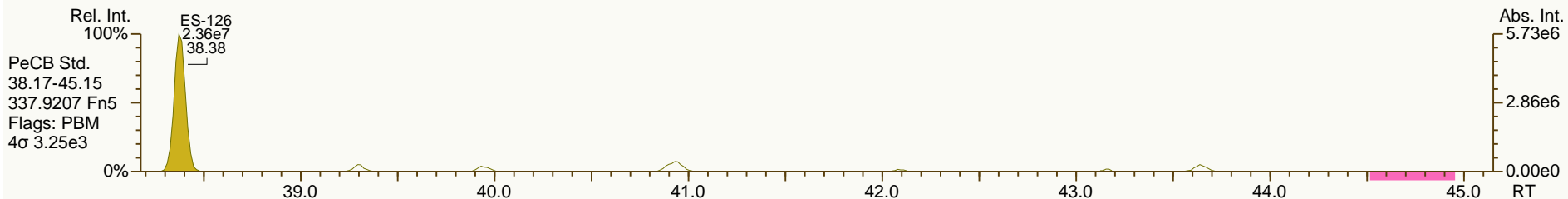
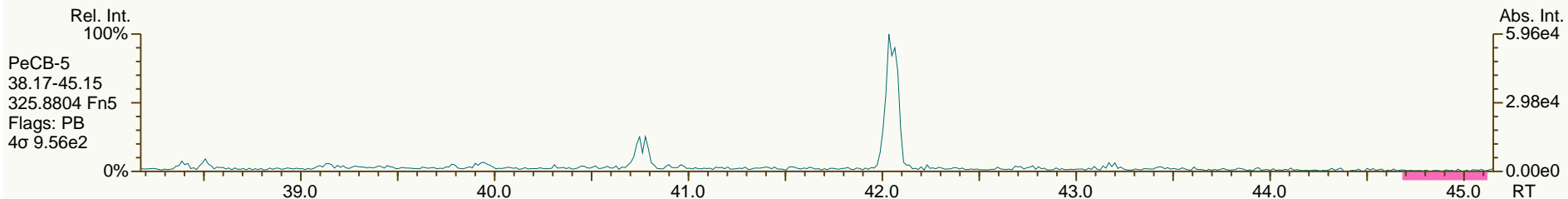
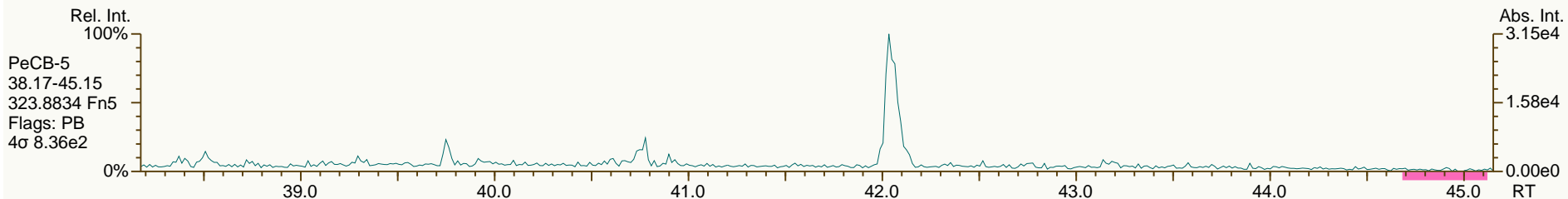




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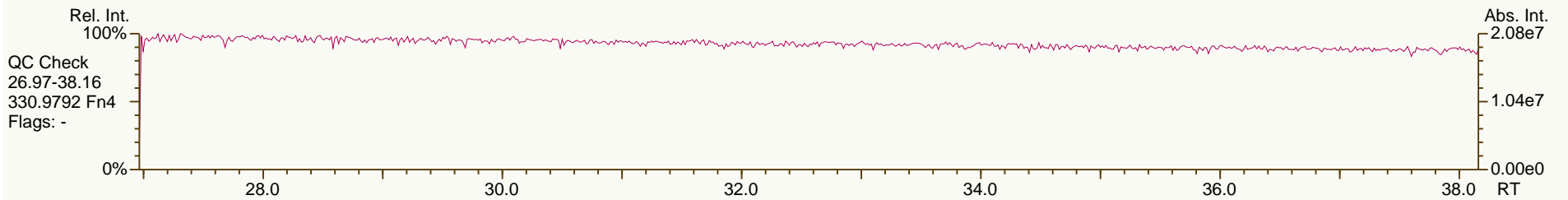
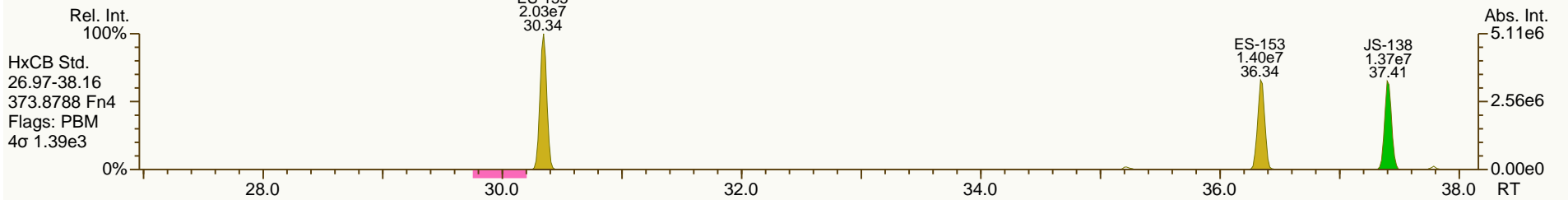
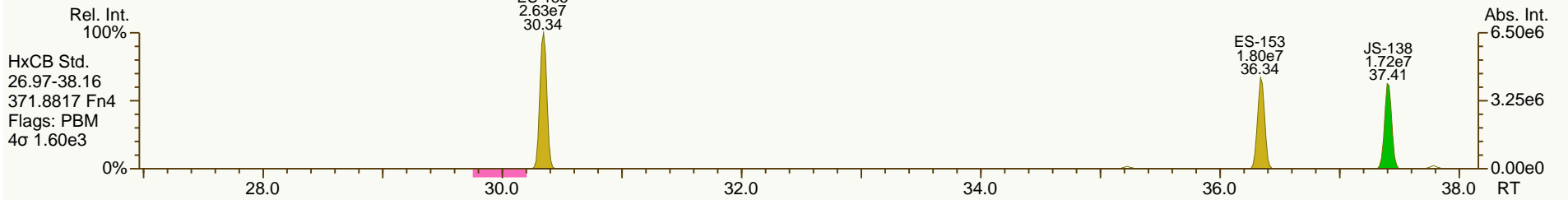
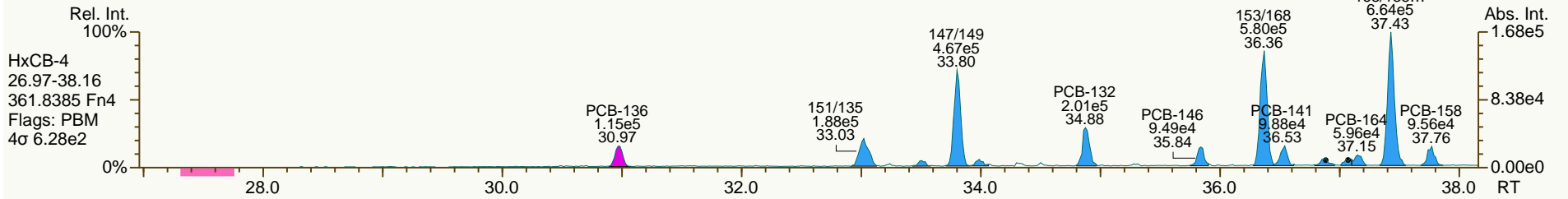
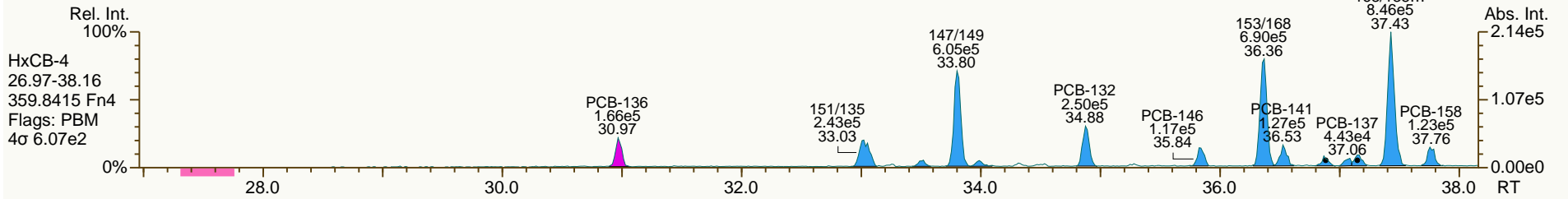
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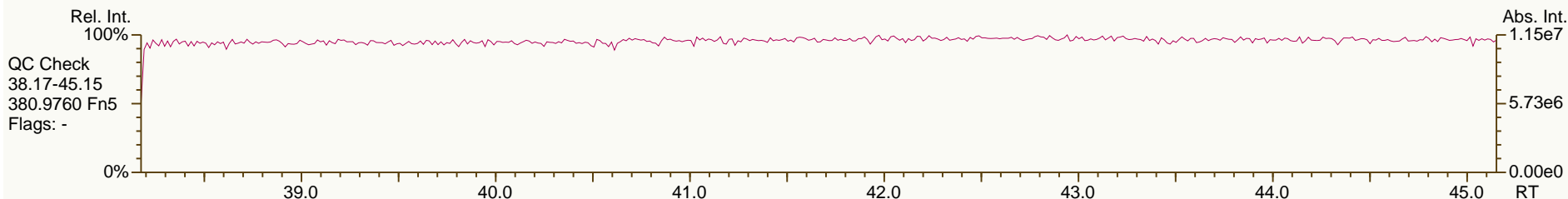
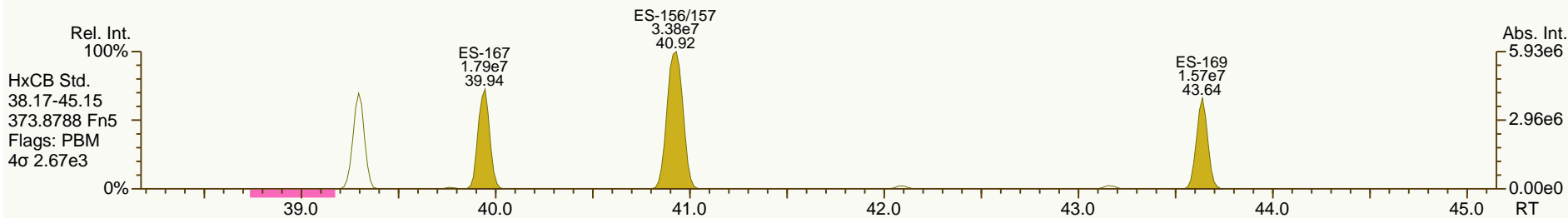
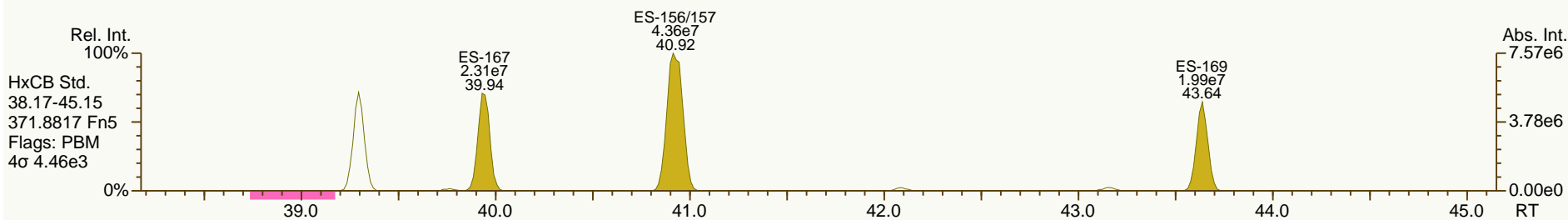
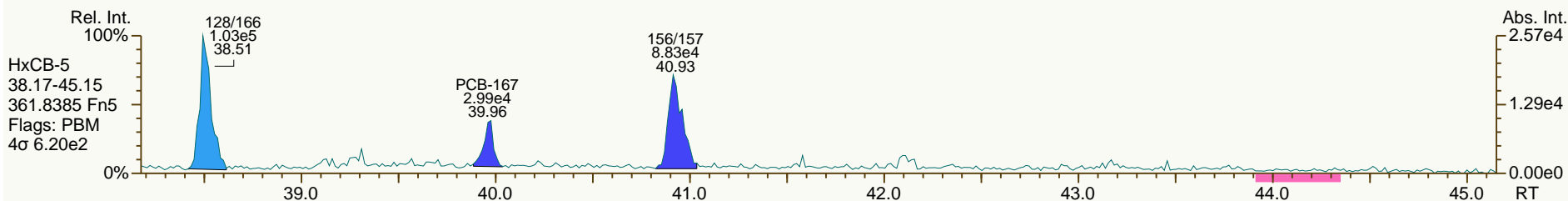
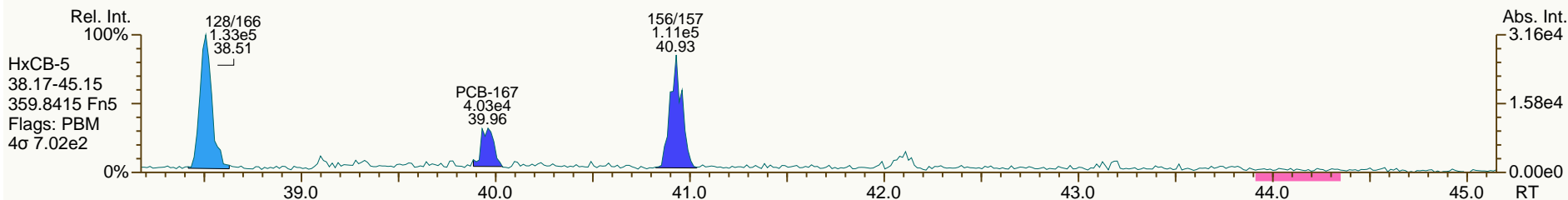
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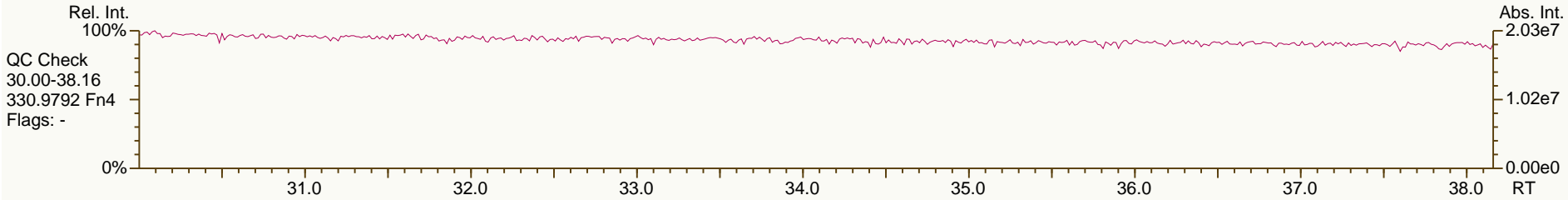
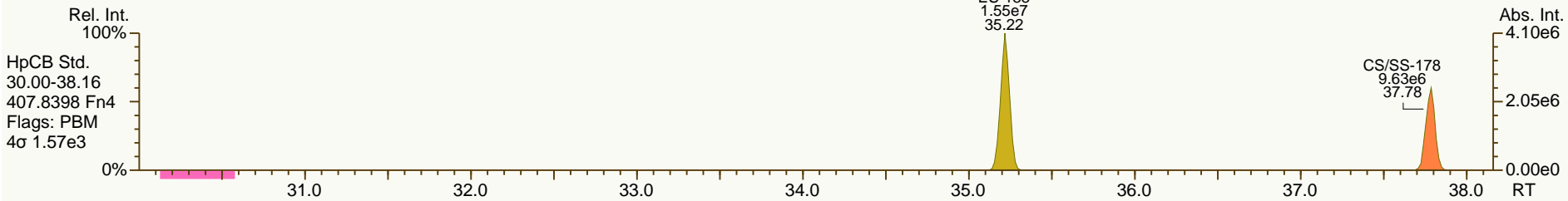
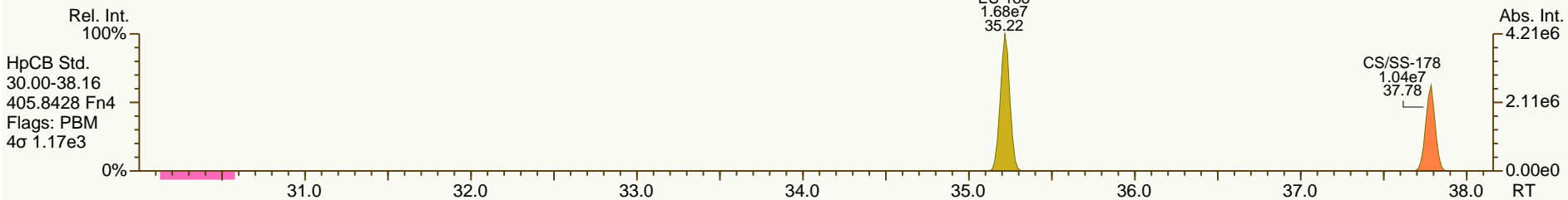
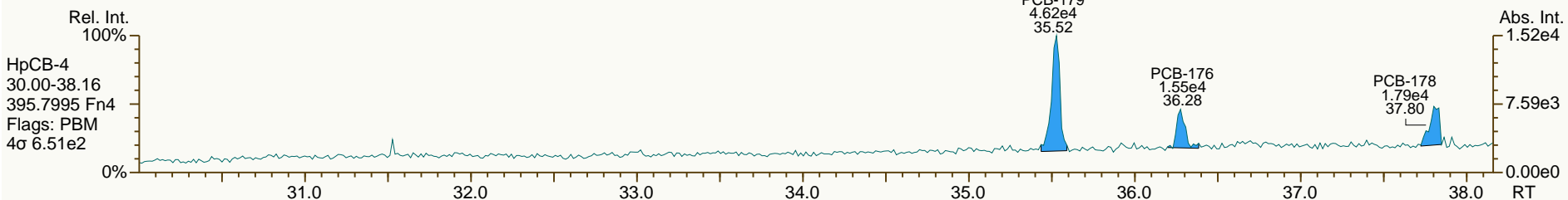
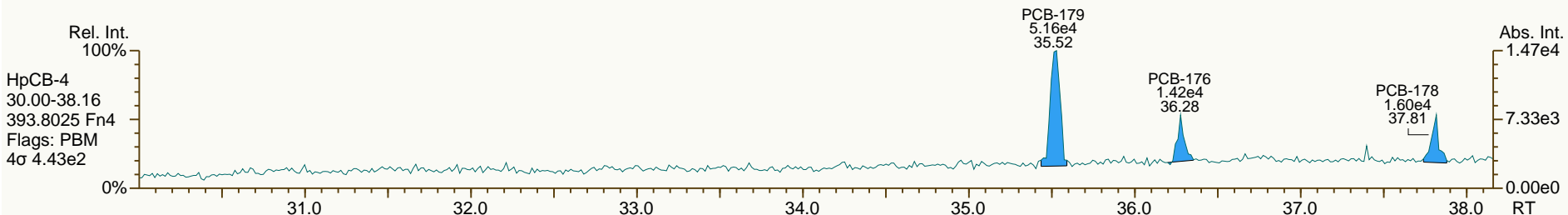
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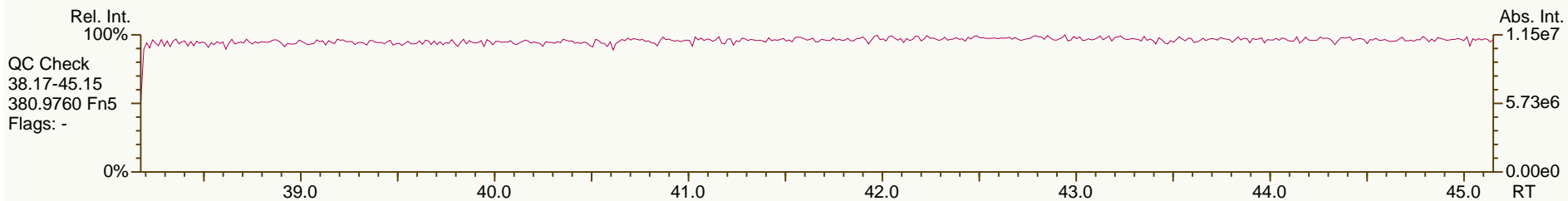
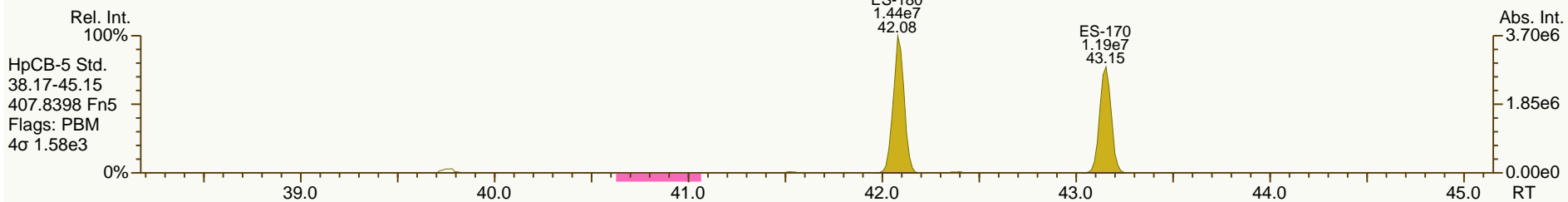
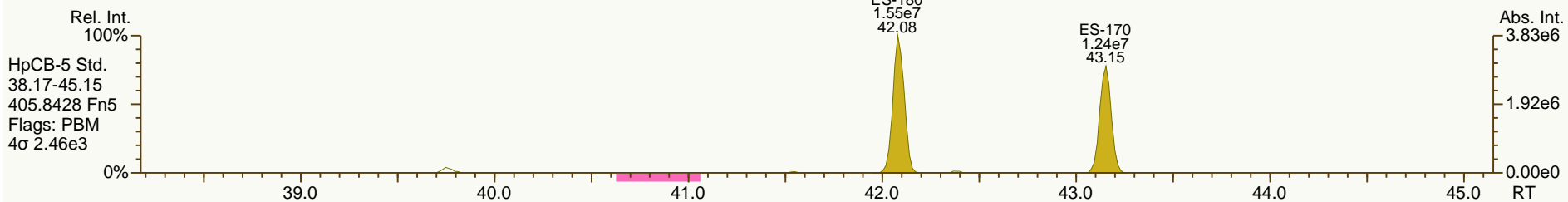
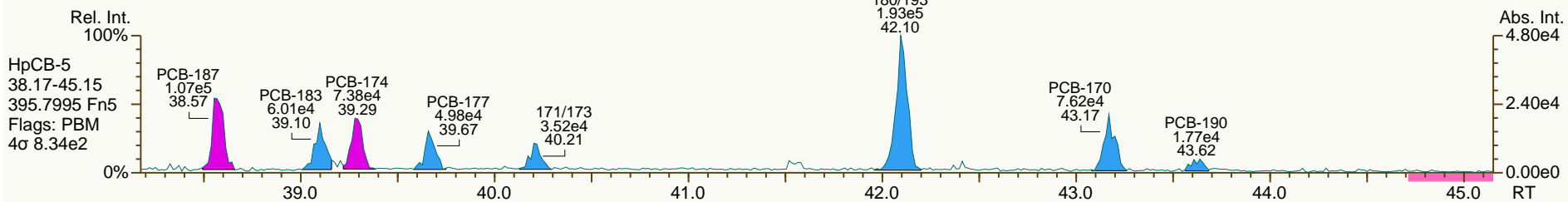
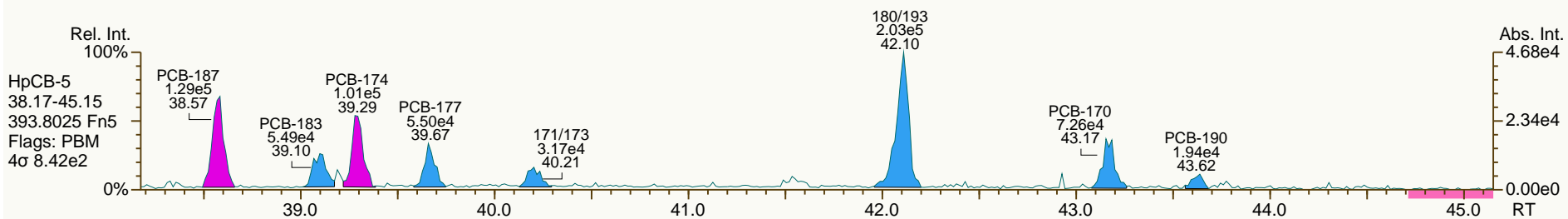
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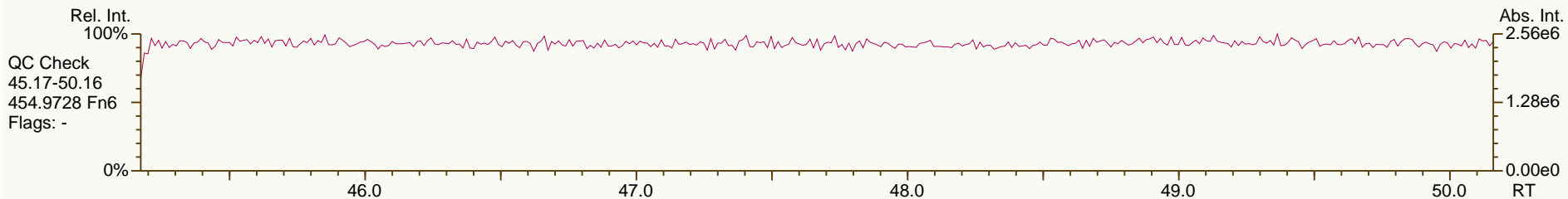
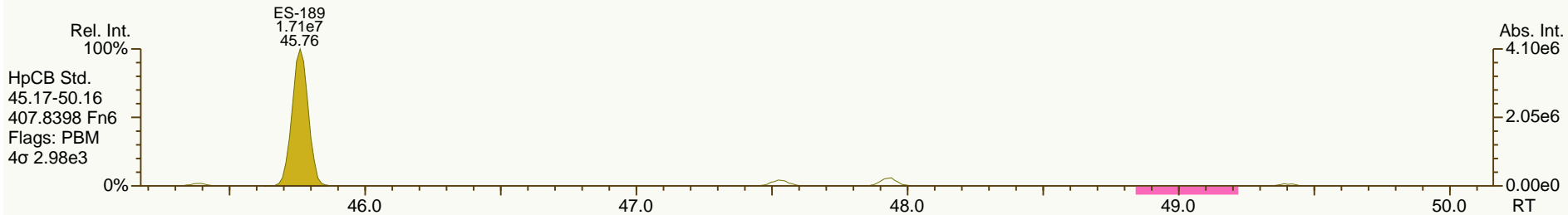
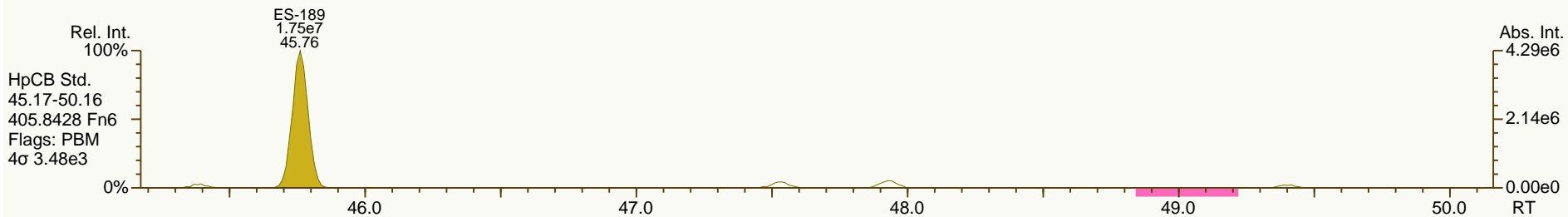
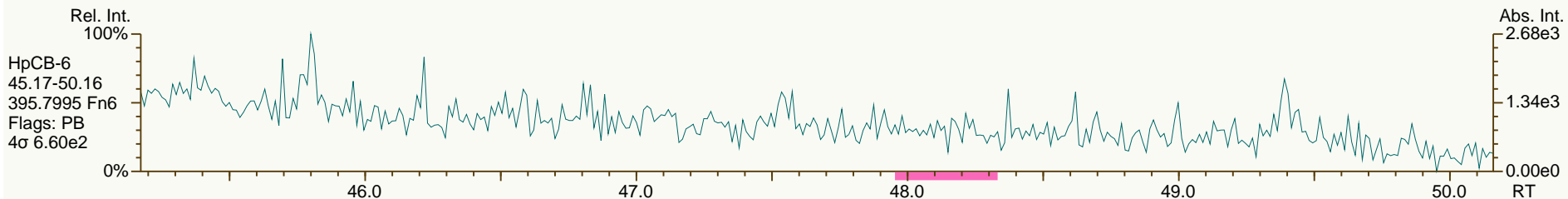
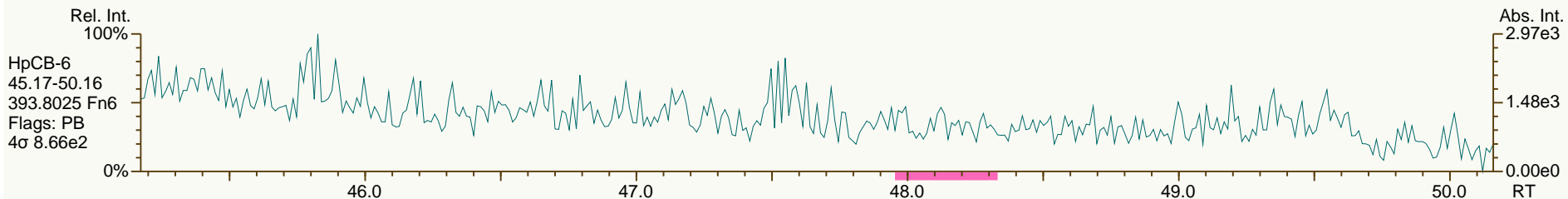
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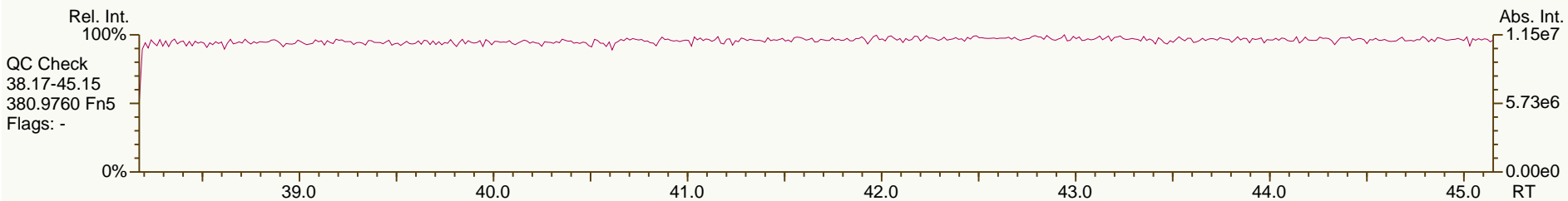
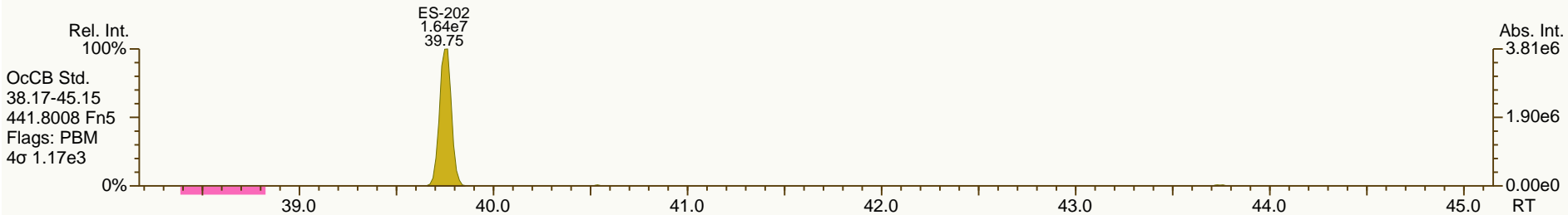
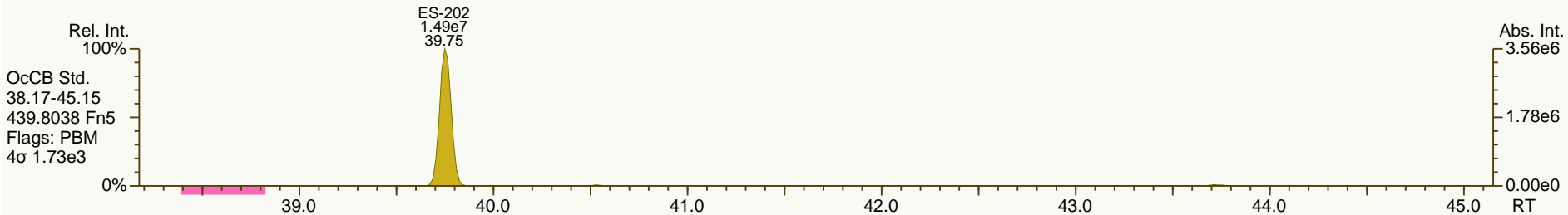
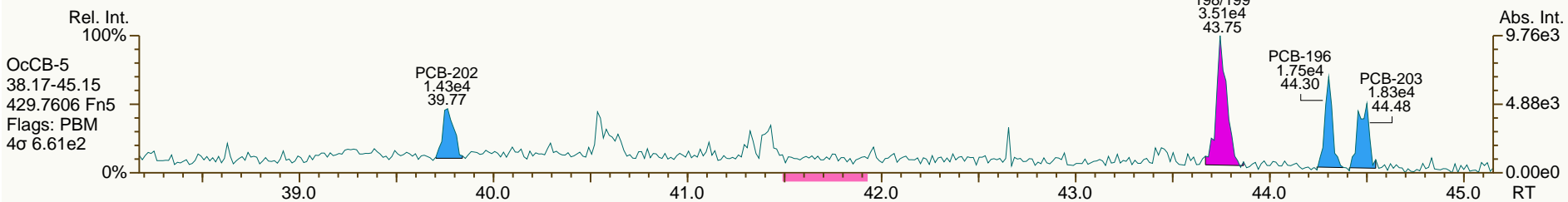
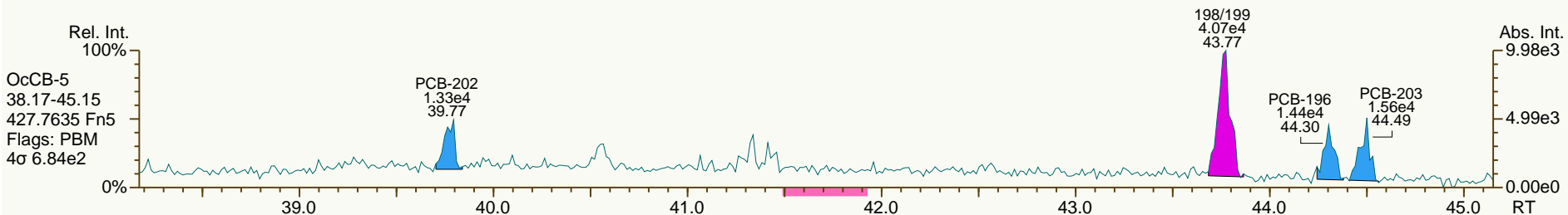
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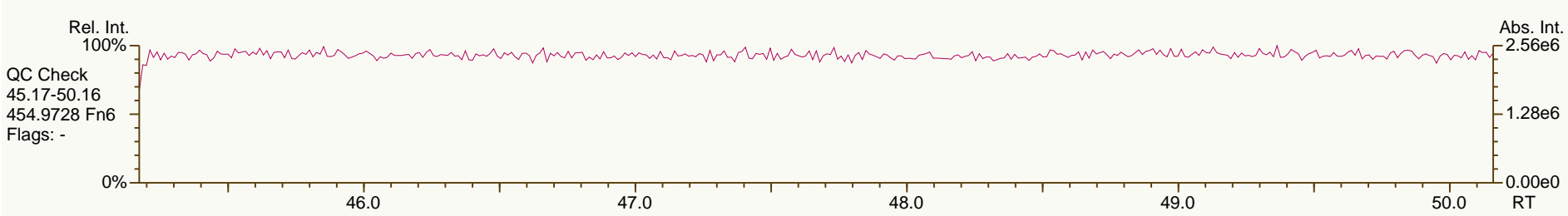
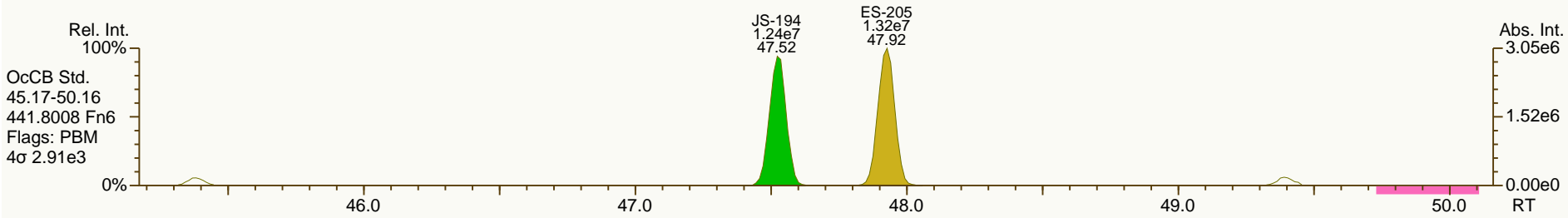
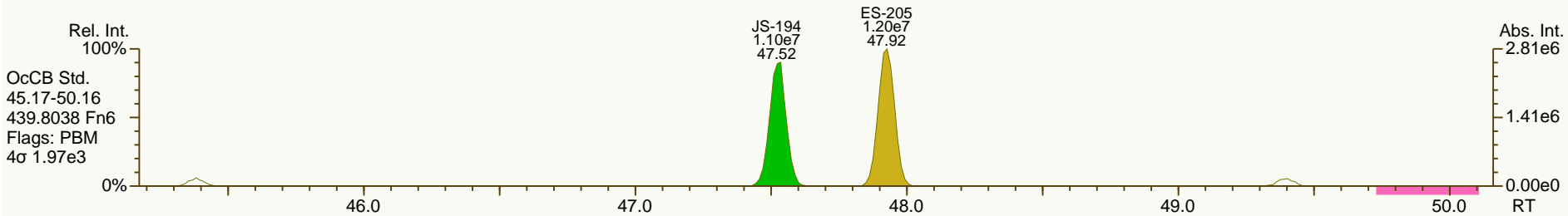
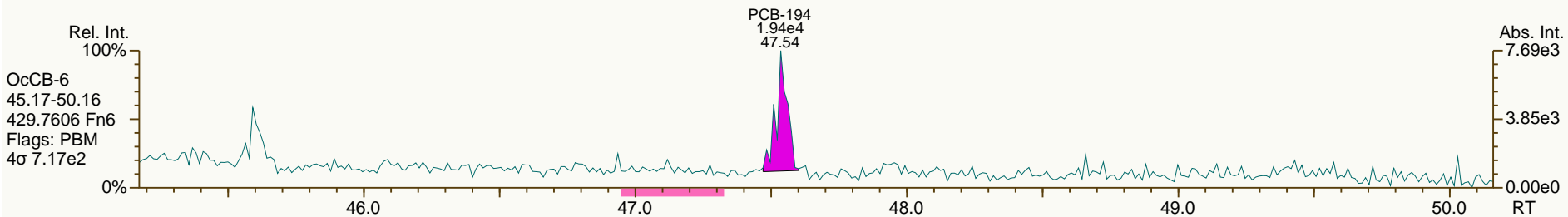
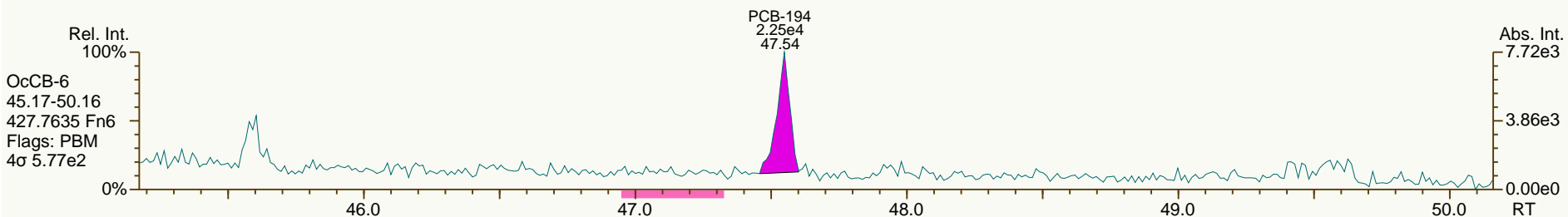
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SGS-AP ID: A6504\_11892\_PCB\_005  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 27-Mar-2014 01:43:07  
 User: LKB Datafile: 140326X13

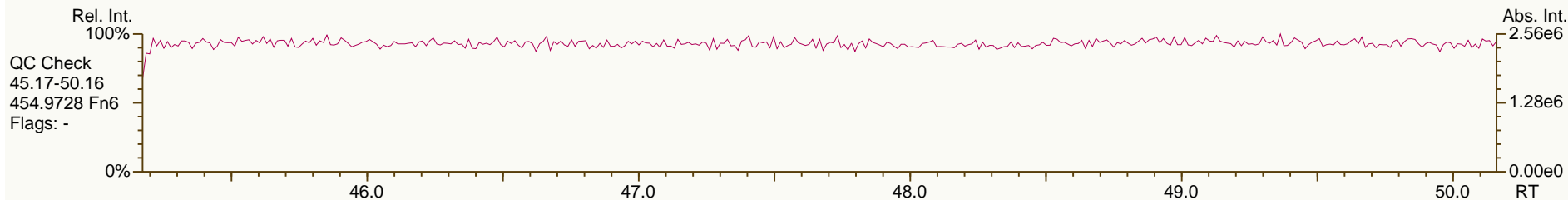
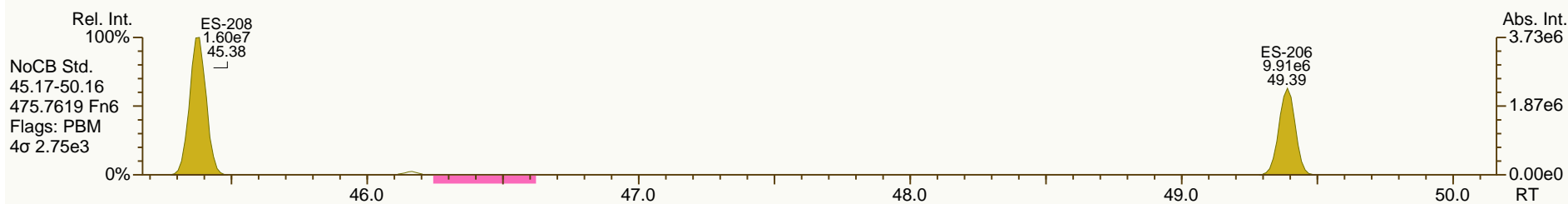
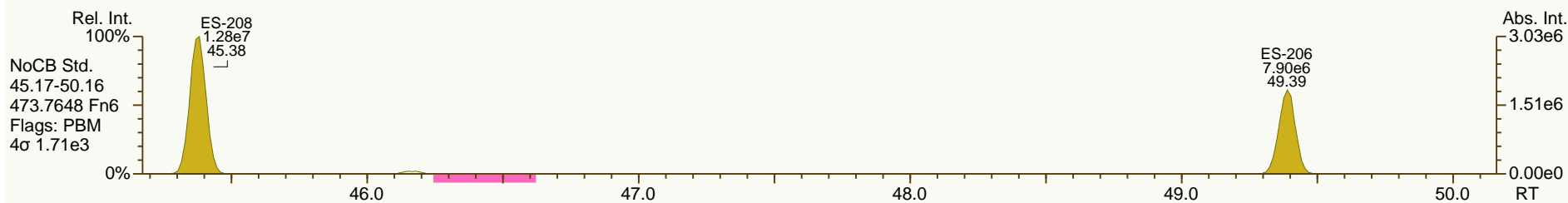
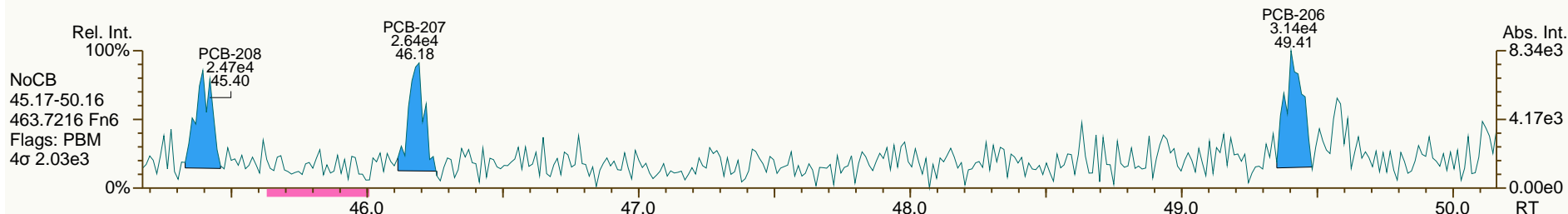
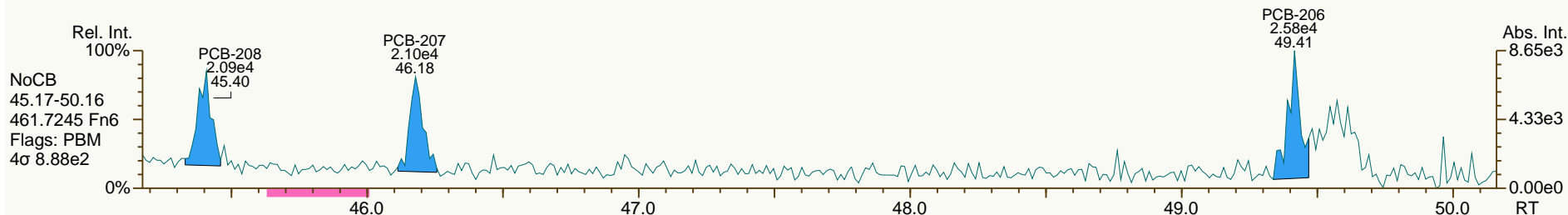




SGS-AP ID: A6504\_11892\_PCB\_005  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)  
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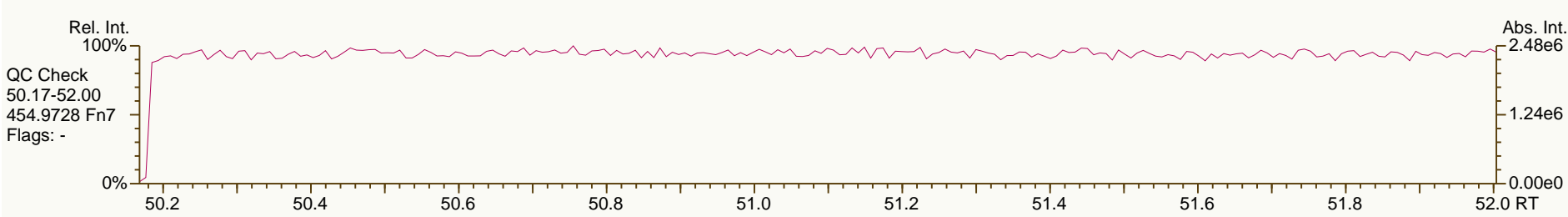
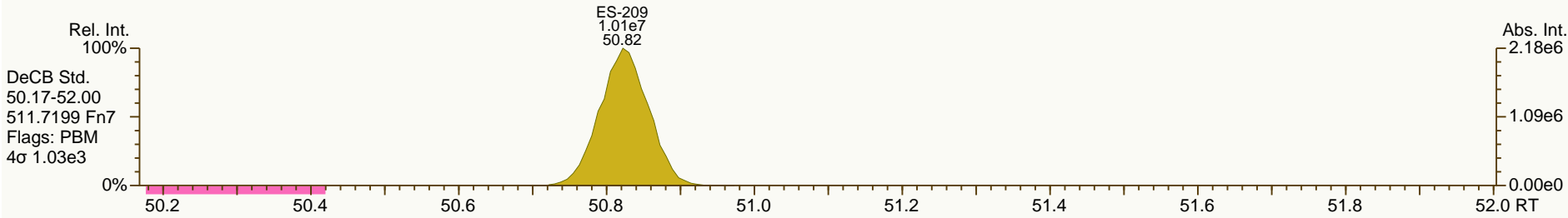
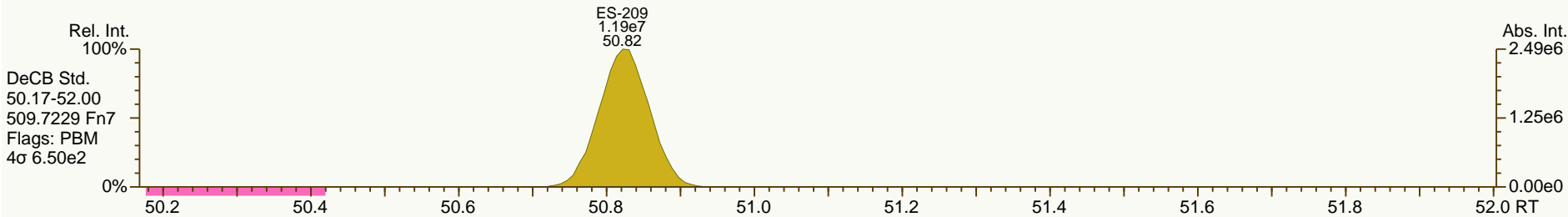
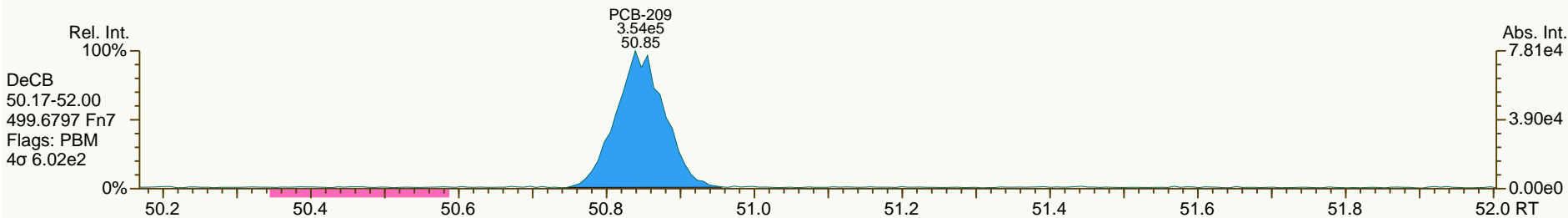
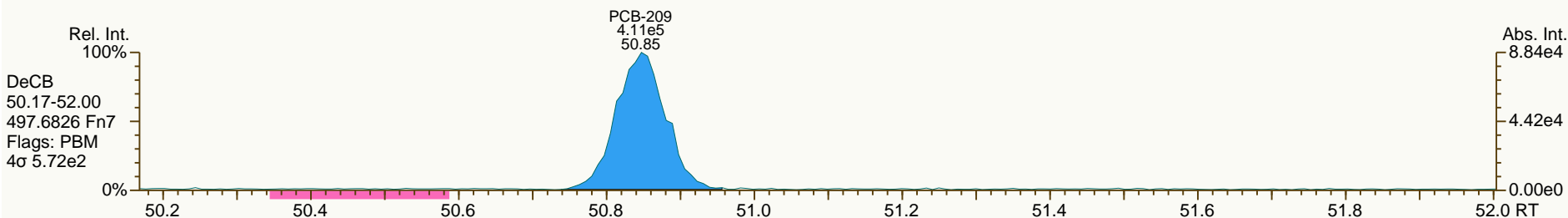
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SGS-AP ID: A6504\_11892\_PCB\_005  
 Instr: AutoSpec-Premier MM7

Sample ID: PB056\_C-1SWMID-140313-N (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 27-Mar-2014 01:43:07  
 User: LKB Datafile: 140326X13



Lab ID: A6504\_11892\_PCB\_006

ACQ: 27-Mar-2014 02:38:21 LKB

Wt/Vol: 0.93 L

ICAL: MM7\_PCB\_10292013\_20DEC2013\_CS3\_140326\_PCB\_XC

Client ID: EF006.1-1SWMID-140313-N (TOTAL)

UTP: 31-Mar-2014 18:01 CEM

J-level: 10.7 pg/L Split: 1

Checkcode: 889-569-FHN

Datafile: 140326X14

RPT: 31-Mar-2014 18:58 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.80		1.0006	1.0006	0	3.77E+05	0.75	1.15	11.4	4.06E+03	1.26
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.06E+03	1.25
PCB-105 233'44'-PeCB	35.78		1.0007	1.0007	0	1.21E+06	0.64	1.11	43.9	2.22E+03	0.833
PCB-114 2344'5'-PeCB	35.24	J EMPC	1.0006	1.0004	-0.4	6.48E+04	0.74	1.20	2.2	2.22E+03	0.778
PCB-118 23'44'5'-PeCB	34.78		1.0006	1.0006	0	2.22E+06	0.64	1.19	76.9	2.22E+03	0.78
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	2.22E+03	0.779
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.46E+03	1.07
PCB-156/157 ...-HxCB	40.93	J C	1.0005	1.0003	-0.5	2.40E+05	1.21	1.10	10.8	1.86E+03	1.17
PCB-167 23'44'55'-HxCB	39.95	J	1.0006	1.0005	-0.2	9.33E+04	1.20	1.16	3.58	1.86E+03	0.744
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.86E+03	0.971
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.80E+03	1.03
PCB-209 DeCB	50.84		1.0004	1.0004	0	4.32E+05	1.15	1.11	41.4	1.15E+03	1.27
ES PCB-1	11.88		0.7244	0.7243	-0.1	4.98E+07	3.27	1.19	42.1 %	15%	150%
ES PCB-3	14.16		0.8639	0.8639	0	5.48E+07	3.40	1.09	51 %	15%	150%
ES PCB-4	14.42		0.8794	0.8793	-0.1	2.85E+07	1.61	0.52	55.1 %	25%	150%
ES PCB-15	20.13		1.2273	1.2276	+0.4	8.28E+07	1.55	1.04	80.3 %	25%	150%
ES PCB-19	17.50		1.0673	1.0673	0	3.30E+07	1.06	0.51	65.9 %	25%	150%
ES PCB-37	26.45		1.0788	1.0789	+0.2	7.05E+07	1.13	1.66	79.4 %	25%	150%
ES PCB-54	20.41		0.8328	0.8326	-0.2	3.59E+07	0.77	0.86	78 %	25%	150%
ES PCB-77	32.78		1.3366	1.3370	+0.8	6.18E+07	0.80	1.38	83.6 %	25%	150%
ES PCB-81	32.30		1.3172	1.3176	+0.8	6.01E+07	0.81	1.37	82.3 %	25%	150%
ES PCB-104	25.39		0.8324	0.8322	-0.3	3.86E+07	1.61	0.80	99.9 %	25%	150%
ES PCB-105	35.76		1.1721	1.1723	+0.4	5.30E+07	1.58	1.20	91.7 %	25%	150%
ES PCB-114	35.22		1.1544	1.1546	+0.4	5.26E+07	1.57	1.22	89.8 %	25%	150%
ES PCB-118	34.75		1.1392	1.1394	+0.4	5.20E+07	1.59	1.16	93.3 %	25%	150%
ES PCB-123	34.47		1.1300	1.1302	+0.4	5.11E+07	1.59	1.19	89.5 %	25%	150%
ES PCB-126	38.37		1.2577	1.2579	+0.5	4.50E+07	1.55	1.03	91 %	25%	150%
ES PCB-153	36.34		0.9716	0.9716	0	3.74E+07	1.29	1.11	87.6 %	25%	150%
ES PCB-155	30.34		0.8113	0.8111	-0.4	5.23E+07	1.30	1.59	86.5 %	25%	150%
ES PCB-156/157	40.92		1.0940	1.0941	+0.2	8.72E+07	1.26	1.60	71.5 %	25%	150%
ES PCB-167	39.94		1.0677	1.0678	+0.2	4.81E+07	1.28	1.67	75.7 %	25%	150%
ES PCB-169	43.63		1.1666	1.1666	0	3.90E+07	1.26	1.56	65.7 %	25%	150%
ES PCB-170	43.15		0.9080	0.9080	0	2.73E+07	1.09	0.95	89.2 %	25%	150%
ES PCB-180	42.08		0.8855	0.8855	0	3.37E+07	1.06	1.14	92 %	25%	150%
ES PCB-188	35.21		0.7411	0.7410	-0.2	3.65E+07	1.10	0.94	102 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	3.69E+07	1.04	1.58	86.3 %	25%	150%
ES PCB-202	39.75		0.8365	0.8365	0	3.57E+07	0.92	0.97	96.7 %	25%	150%
ES PCB-205	47.92		1.0084	1.0084	0	2.48E+07	0.90	1.24	73.9 %	25%	150%
ES PCB-206	49.38		1.0392	1.0392	0	1.69E+07	0.80	0.83	75.5 %	25%	150%
ES PCB-208	45.37		0.9548	0.9548	0	3.10E+07	0.80	1.17	97.8 %	25%	150%
ES PCB-209	50.82		1.0694	1.0694	0	2.01E+07	1.19	1.11	67.1 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.90		0.9339	0.9339	0	8.36E+07	1.09	1.11	107 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	5.67E+07	1.59	1.03	108 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	2.48E+07	1.07	0.62	110 %	30%	135%
CS PCB-28	22.90		0.9339	0.9339	0	8.36E+07	1.09	1.85	84.7 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	5.67E+07	1.59	1.22	96.4 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	2.48E+07	1.07	0.58	112 %	30%	135%
JS PCB-9	16.40					9.91E+07	1.56				
JS PCB-52	24.52					5.34E+07	0.78				
JS PCB-101	30.50					4.81E+07	1.57				
JS PCB-138	37.40					3.81E+07	1.27				
JS PCB-194	47.52					2.70E+07	0.90				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			0		0		1.46	
			Di-CBs			43.7		43.7		2.23	
			Tri-CBs			276		276		2.21	
			Tetra-CBs			997		1,000		0.978	
			Penta-CBs			634		638		0.785	
			Hexa-CBs			334		337		0.818	
			Hepta-CBs			120		123		0.865	
			Octa-CBs			10.7		26.6		1.05	
			Nona-CBs			4.15		6.67		2.87	
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00		0.95	ND	5.21E+03	1.45
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	5.21E+03	1.32
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00		1.01	ND	5.21E+03	1.47
PCB-4 22'-DiCB	14.43	J	1.0011	1.0012	+0.1	1.42E+05	SI	1.23	8.69	6.52E+03	2.95
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	6.52E+03	1.89
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		0.96	ND	6.77E+03	1.61
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	6.77E+03	1.41
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.01	ND	6.77E+03	1.53
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	6.77E+03	1.53
PCB-8 24'-DiCB	17.23	J	1.0505	1.0507	+0.2	2.09E+05	SI	1.06	5.1	6.77E+03	1.46
PCB-14 35-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	6.77E+03	1.28
PCB-11 33'-DiCB	19.57	B	0.9721	0.9722	+0.1	9.51E+05	1.52	1.06	23.1	6.77E+03	1.45
PCB-13/12 34' /34-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.05	ND	6.77E+03	1.47
PCB-15 44'-DiCB	20.14	J	1.0008	1.0008	0	2.65E+05	SI	1.02	6.74	6.77E+03	1.52
PCB-19 22'6-TrCB	17.52	J	1.0010	1.0012	+0.2	1.44E+05	1.07	1.15	8.17	5.78E+03	2.77
PCB-30/18 246/22'5-TrCB	19.29	C	1.1015	1.1020	+0.6	1.26E+06	1.07	1.54	53.2	5.78E+03	2.07
PCB-17 22'4-TrCB	19.68		1.1244	1.1247	+0.4	3.71E+05	1.11	1.32	18.3	5.78E+03	2.42
PCB-27 23'6-TrCB	19.87	J	1.1354	1.1354	0	1.31E+05	0.96	1.79	4.75	5.78E+03	1.77
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	5.78E+03	1.85
PCB-16 22'3-TrCB	20.10		1.1485	1.1486	+0.1	2.57E+05	0.99	0.98	17	5.78E+03	3.24

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.58		1.1759	1.1761	+0.2	5.72E+05	0.95	1.92	19.3	5.78E+03	1.65
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.23	ND	5.89E+03	1.44
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	5.89E+03	1.42
PCB-26/29 23'5'/245-TrCB	22.14	J C	0.8382	0.8371	-1.5	3.93E+05	0.92	1.27	9.45	5.89E+03	1.4
PCB-25 23'4-TrCB	22.36	J	0.8457	0.8454	-0.4	2.54E+05	1.07	1.27	6.08	5.89E+03	1.39
PCB-31 24'5-TrCB	22.64		0.8562	0.8560	-0.3	2.04E+06	1.01	1.33	46.7	5.89E+03	1.33
PCB-28/20 244'/233'-TrCB	22.92	C	0.8669	0.8663	-0.8	2.74E+06	0.98	1.23	67.7	5.89E+03	1.43
PCB-21/33 234/23'4'-TrCB	23.13	J C	0.8738	0.8743	+0.7	4.65E+05	1.11	1.27	11.2	5.89E+03	1.4
PCB-22 234'-TrCB	23.48		0.8879	0.8878	-0.1	5.38E+05	1.04	1.18	13.9	5.89E+03	1.5
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	5.89E+03	1.37
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	5.89E+03	1.32
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	5.89E+03	1.46
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.17	ND	5.89E+03	1.51
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	5.89E+03	1.64
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	2.00E+03	0.732
PCB-50/53 22'46/22'56'-TeCB	22.39	J C	0.9145	0.9134	-1.5	4.61E+05	0.84	0.91	18.2	2.15E+03	0.817
PCB-45 22'36-TeCB	23.00		0.9385	0.9380	-0.7	3.20E+05	0.74	0.82	13.9	2.15E+03	0.901
PCB-51 22'46'-TeCB	23.07		0.9414	0.9411	-0.4	5.34E+05	0.83	0.88	21.7	2.15E+03	0.845
PCB-46 22'36'-TeCB	23.29	J	0.9499	0.9498	-0.1	1.20E+05	0.77	0.73	5.86	2.15E+03	1.01
PCB-52 22'55'-TeCB	24.54		1.0009	1.0009	0	4.54E+06	0.76	0.89	182	2.15E+03	0.83
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.15E+03	0.63
PCB-43 22'35-TeCB	NotFnd		1.0100	-		0.00E+00		0.76	ND	2.15E+03	0.97
PCB-69/49 23'46/22'45'-TeCB	24.98	C	1.0181	1.0189	+1.2	2.51E+06	0.80	1.09	82.4	2.15E+03	0.68
PCB-48 22'45-TeCB	25.24		1.0296	1.0295	-0.2	3.52E+05	0.88	0.89	14.1	2.15E+03	0.831
PCB-44/47/65 ...-TeCB	25.44	C	1.0384	1.0377	-1.1	3.73E+06	0.79	0.95	140	2.15E+03	0.781
PCB-59/62/75 ...-TeCB	25.73	J C	1.0497	1.0493	-0.6	3.85E+05	0.75	1.24	11.1	2.15E+03	0.596
PCB-42 22'34'-TeCB	25.90		1.0563	1.0565	+0.3	6.02E+05	0.76	0.82	26.3	2.15E+03	0.908
PCB-41 22'34-TeCB	26.23	J EMPC	1.0700	1.0698	-0.3	1.15E+05	0.92	0.75	5.49	2.15E+03	0.99
PCB-71/40 23'4'6/22'33'-TeCB	26.33	C	1.0738	1.0740	+0.3	1.32E+06	0.84	0.91	51.8	2.15E+03	0.818
PCB-64 234'6-TeCB	26.53		1.0819	1.0820	+0.2	2.15E+06	0.77	1.31	58.3	2.15E+03	0.564
PCB-72 23'55'-TeCB	NotFnd		0.8435	-		0.00E+00		1.27	ND	4.06E+03	1.1
PCB-68 23'45'-TeCB	27.50		0.8514	0.8513	-0.2	8.68E+05	0.81	1.32	23.4	4.06E+03	1.06
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.21	ND	4.06E+03	1.16
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	4.06E+03	1.15
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.29	ND	4.06E+03	1.08
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.36	ND	4.06E+03	1.03
PCB-61/70/74/76 ...-TeCB	28.77	C	0.8901	0.8905	+0.7	5.05E+06	0.79	1.22	148	4.06E+03	1.15
PCB-66 23'44'-TeCB	29.03		0.8988	0.8987	-0.2	3.89E+06	0.80	1.17	118	4.06E+03	1.19
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	4.06E+03	1.22
PCB-56 233'4'-TeCB	29.61		0.9168	0.9167	-0.2	1.38E+06	0.80	1.16	42.5	4.06E+03	1.21
PCB-60 2344'-TeCB	29.81		0.9228	0.9228	0	9.09E+05	0.85	1.17	27.8	4.06E+03	1.2
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	4.06E+03	1.01
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.32	ND	4.06E+03	1.06
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.06E+03	1.26
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.28E+03	0.472
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.17	ND	1.28E+03	0.58
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	2.22E+03	0.991
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.80	ND	2.22E+03	1.18

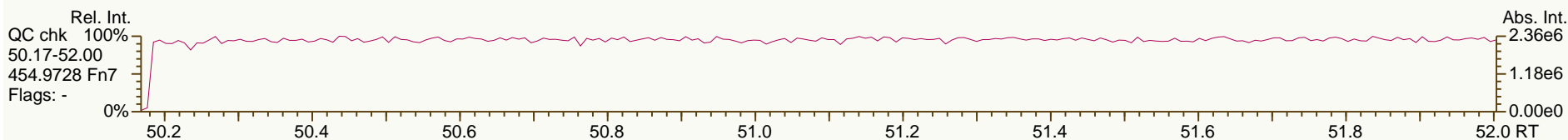
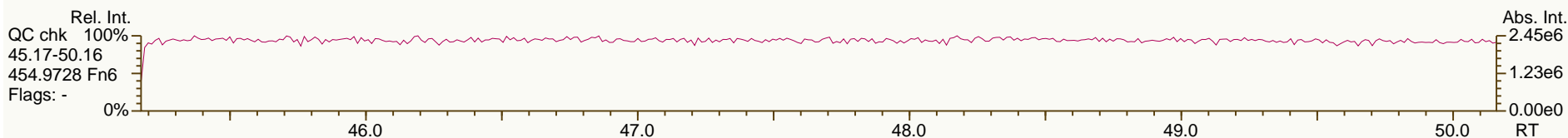
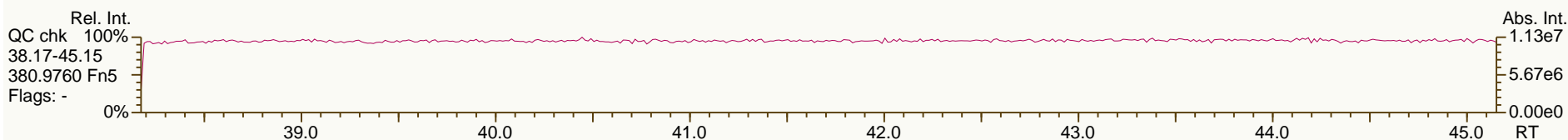
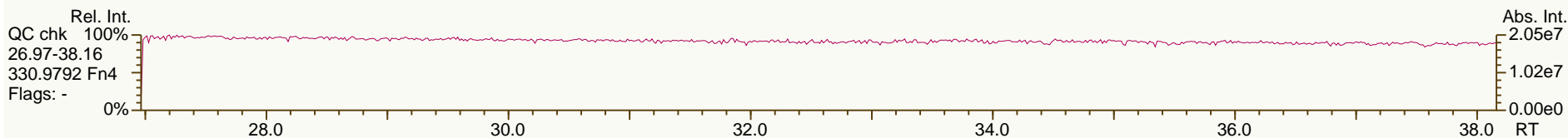
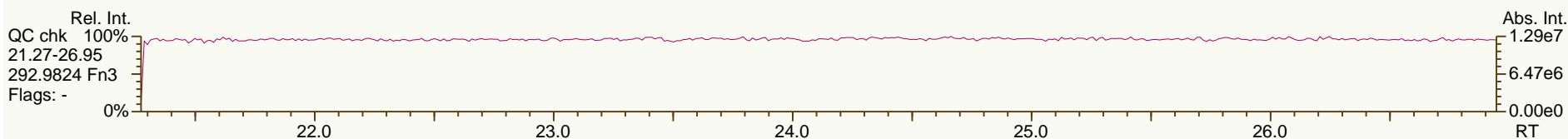
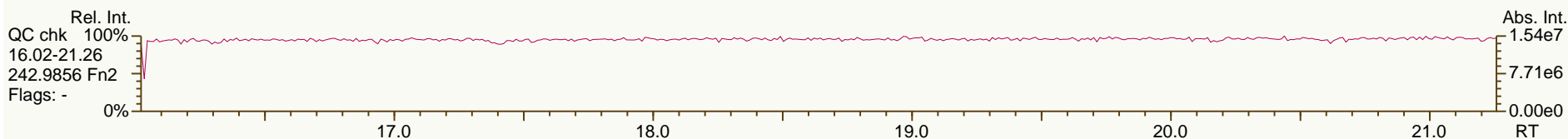
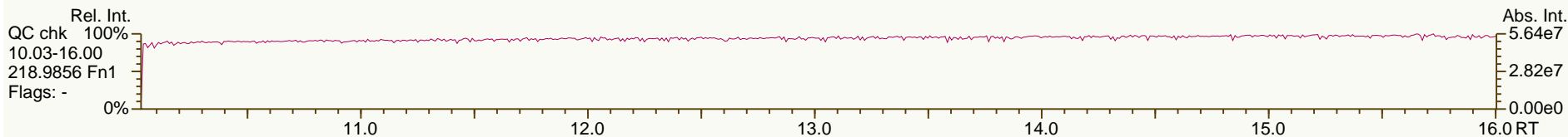
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PCB-95 22'35'6-PeCB	27.99		0.9176	0.9175	-0.2	1.37E+06	0.65	0.87	66	2.22E+03	1.09
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	2.22E+03	1.08
PCB-102 22'456'-PeCB	28.31	J	0.9282	0.9280	-0.3	8.95E+04	0.69	0.88	4.27	2.22E+03	1.07
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	2.22E+03	1.11
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	2.22E+03	1.12
PCB-91 22'34'6-PeCB	28.75		0.9425	0.9425	0	3.40E+05	0.63	0.86	16.7	2.22E+03	1.1
PCB-84 22'33'6-PeCB	28.94		0.9487	0.9488	+0.2	4.54E+05	0.62	0.72	26.5	2.22E+03	1.31
PCB-89 22'346'-PeCB	29.35	J EMPC	0.9624	0.9623	-0.2	3.46E+04	0.72	0.78	1.86	2.22E+03	1.21
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.22E+03	0.775
PCB-92 22'355'-PeCB	30.02		0.9841	0.9840	-0.2	3.64E+05	0.63	0.84	18.1	2.22E+03	1.12
PCB-113/90/101 ...-PeCB	30.53	C	0.9999	1.0007	+1.5	2.07E+06	0.62	0.97	89.2	2.22E+03	0.97
PCB-83 22'33'5-PeCB	30.94	J	1.0142	1.0142	0	1.05E+05	0.66	0.66	6.69	2.22E+03	1.43
PCB-99 22'44'5-PeCB	31.03		1.0173	1.0174	+0.2	1.23E+06	0.64	0.98	52.5	2.22E+03	0.96
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	2.22E+03	0.816
PCB-108/119/86/97/125...-PeCB	31.51	C	1.0320	1.0330	+1.9	1.57E+06	0.60	0.98	67.4	2.22E+03	0.967
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	2.22E+03	0.868
PCB-116/85 23456/22'344'-PeCB	32.08	C	1.0525	1.0518	-1.3	6.24E+05	0.63	0.97	27	2.22E+03	0.974
PCB-110 233'4'6-PeCB	32.22		1.0563	1.0564	+0.2	3.01E+06	0.61	1.10	115	2.22E+03	0.859
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	2.22E+03	0.842
PCB-82 22'33'4-PeCB	32.50		1.0656	1.0656	0	2.08E+05	0.55	0.69	12.6	2.22E+03	1.36
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	2.22E+03	0.785
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	2.22E+03	0.773
PCB-107/124 ...-PeCB	34.18	J C	0.9915	0.9915	0	8.83E+04	0.65	1.10	3.37	2.22E+03	0.859
PCB-109 233'46-PeCB	34.40	J	0.9976	0.9977	+0.2	2.13E+05	0.59	1.22	7.32	2.22E+03	0.773
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	2.22E+03	0.872
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	2.22E+03	0.927
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	2.22E+03	0.871
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.18E+03	0.389
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.18E+03	0.451
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.18E+03	0.438
PCB-136 22'33'66'-HxCB	30.96	J	1.0207	1.0207	0	1.69E+05	1.15	1.02	6.76	1.18E+03	0.478
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.18E+03	0.472
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.18E+03	0.625
PCB-151/135 ...-HxCB	33.03	J C	1.0886	1.0886	0	3.60E+05	1.18	1.06	19.5	1.18E+03	0.663
PCB-154 22'44'56'-HxCB	NotFnd		1.0955	-		0.00E+00		1.26	ND	1.18E+03	0.559
PCB-144 22'345'6-HxCB	33.51	J EMPC	1.1042	1.1045	+0.6	4.37E+04	1.76	1.10	2.27	1.18E+03	0.636
PCB-147/149 ...-HxCB	33.80	C	1.1142	1.1142	0	9.38E+05	1.31	1.10	48.9	1.18E+03	0.638
PCB-134 22'33'56-HxCB	33.99	J	1.1199	1.1203	+0.8	7.68E+04	1.34	0.81	5.42	1.18E+03	0.863
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.18E+03	0.642
PCB-139/140 ...-HxCB	NotFnd	C	1.1313	-		0.00E+00		1.11	ND	1.18E+03	0.632
PCB-131 22'33'46-HxCB	NotFnd		1.1370	-		0.00E+00		0.94	ND	1.18E+03	0.744
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.18E+03	0.761
PCB-132 22'33'46'-HxCB	34.88		1.1495	1.1497	+0.4	4.07E+05	1.35	0.97	24	1.18E+03	0.723
PCB-133 22'33'55'-HxCB	NotFnd		1.1628	-		0.00E+00		1.04	ND	1.18E+03	0.677
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.18E+03	0.532
PCB-146 22'34'55'-HxCB	35.84		0.9582	0.9581	-0.2	2.44E+05	1.12	1.16	12.1	1.18E+03	0.606
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.18E+03	0.494
PCB-153/168 ...-HxCB	36.36	C	0.9728	0.9722	-1.3	1.44E+06	1.26	1.38	59.6	1.18E+03	0.507

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.53		0.9767	0.9766	-0.2	2.15E+05	1.41	1.01	12.2	1.18E+03	0.697
PCB-130 22'33'45'-HxCB	36.87	J	0.9859	0.9859	0	1.08E+05	1.13	0.91	6.79	1.18E+03	0.772
PCB-137 22'344'5-HxCB	37.06	J	0.9912	0.9910	-0.4	8.72E+04	1.31	1.15	4.35	1.18E+03	0.611
PCB-164 233'4'5'6-HxCB	37.15	J	0.9934	0.9933	-0.2	1.46E+05	1.11	1.37	6.1	1.18E+03	0.512
PCB-163/138/129 ...-HxCB	37.43	C	1.0011	1.0007	-0.9	1.77E+06	1.32	1.12	90.5	1.18E+03	0.624
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.18E+03	0.554
PCB-158 233'44'6-HxCB	37.76	J	1.0096	1.0096	0	2.25E+05	1.31	1.49	8.68	1.18E+03	0.471
PCB-128/166 ...-HxCB	38.51	J C	0.9640	0.9643	+0.7	2.99E+05	1.30	0.89	15.1	1.86E+03	0.977
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.86E+03	0.805
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.86E+03	0.809
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.16E+03	0.541
PCB-179 22'33'566'-HpCB	35.52	J	1.0086	1.0086	0	1.02E+05	0.89	1.09	5.55	1.16E+03	0.632
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.16E+03	0.659
PCB-176 22'33'466'-HpCB	36.27	J	1.0300	1.0299	-0.2	2.58E+04	0.96	1.15	1.32	1.16E+03	0.596
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.16E+03	0.636
PCB-178 22'33'55'6-HpCB	37.79	J	1.0733	1.0732	-0.2	5.09E+04	1.06	0.75	3.97	1.16E+03	0.91
PCB-175 22'33'45'6-HpCB	NotFnd		1.0888	-		0.00E+00		1.09	ND	1.49E+03	0.897
PCB-187 22'34'55'6-HpCB	38.57		1.0953	1.0953	0	3.35E+05	0.96	1.17	18.3	1.49E+03	0.841
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.49E+03	0.82
PCB-183 22'344'5'6-HpCB	39.10	J	1.1101	1.1103	+0.5	1.69E+05	0.98	1.23	8.74	1.49E+03	0.798
PCB-185 22'3455'6-HpCB	NotFnd		1.1125	-		0.00E+00		1.05	ND	1.49E+03	0.933
PCB-174 22'33'456'-HpCB	39.29		1.1156	1.1157	+0.2	2.18E+05	0.96	1.01	13.8	1.49E+03	0.974
PCB-177 22'33'45'6'-HpCB	39.66	J	1.1263	1.1263	0	1.26E+05	1.08	0.96	8.34	1.49E+03	1.02
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.49E+03	0.908
PCB-171/173 ...-HpCB	40.20	J C	1.1414	1.1416	+0.5	8.14E+04	1.01	0.95	5.48	1.49E+03	1.04
PCB-172 22'33'455'-HpCB	41.54	J	0.9079	0.9078	-0.2	5.39E+04	1.01	0.99	3.46	1.49E+03	0.991
PCB-192 233'455'6-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.49E+03	0.763
PCB-180/193 ...-HpCB	42.10	C	0.9193	0.9200	+1.8	6.40E+05	1.06	1.23	33	1.49E+03	0.796
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.49E+03	0.726
PCB-170 22'33'44'5-HpCB	43.17		0.9434	0.9433	-0.3	2.55E+05	0.97	1.12	18	1.49E+03	1.07
PCB-190 233'44'56-HpCB	43.62	J EMPC	0.9533	0.9533	0	5.76E+04	1.42	1.54	2.93	1.49E+03	0.772
PCB-202 22'33'55'66'-OoCB	39.77	J	1.0005	1.0005	0	4.47E+04	0.76	1.05	2.55	1.45E+03	0.793
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.45E+03	0.748
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.45E+03	0.805
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.45E+03	0.767
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.45E+03	0.77
PCB-198/199 ...-OoCB	43.75	J EMPC C	1.1002	1.1007	+1.3	1.04E+05	1.11	0.72	8.64	1.45E+03	1.16
PCB-196 22'33'44'56'-OoCB	44.31	J	1.1147	1.1148	+0.3	5.07E+04	1.00	0.76	3.99	1.45E+03	1.09
PCB-203 22'344'55'6-OoCB	44.48	J	1.1189	1.1190	+0.3	5.42E+04	0.87	0.78	4.18	1.45E+03	1.07
PCB-195 22'33'44'56-OoCB	NotFnd		0.9516	-		0.00E+00		0.75	ND	1.50E+03	1.86
PCB-194 22'33'44'55'-OoCB	47.54	J EMPC	0.9921	0.9920	-0.3	6.79E+04	1.10	0.81	7.22	1.50E+03	1.71
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.50E+03	1.31
PCB-208 22'33'45'66'-NoCB	45.40	J	1.0005	1.0005	0	6.74E+04	0.70	1.12	4.15	3.12E+03	2.06
PCB-207 22'33'44'566'-NoCB	46.18	J EMPC	1.0178	1.0178	0	4.15E+04	0.90	1.14	2.52	3.12E+03	2.04
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.12E+03	3.69

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Instr: AutoSpec-Premier MM7

Sample ID: EF006.1-1SWMID-140313-N (TOTAL)  
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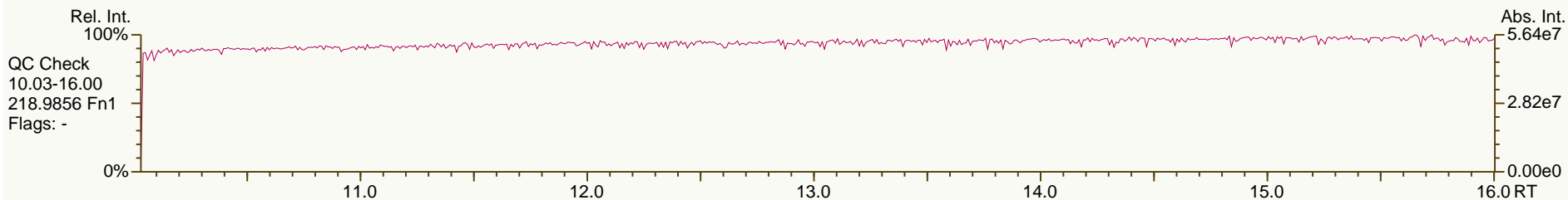
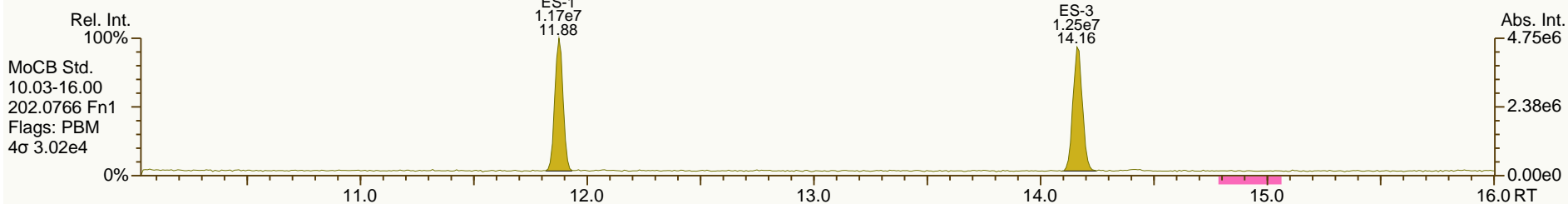
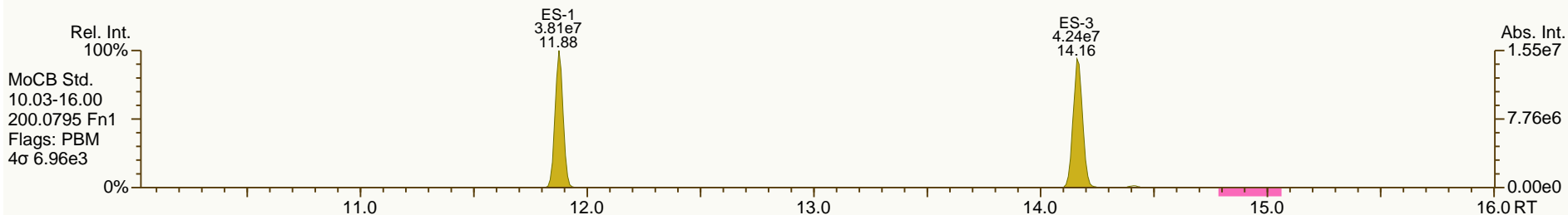
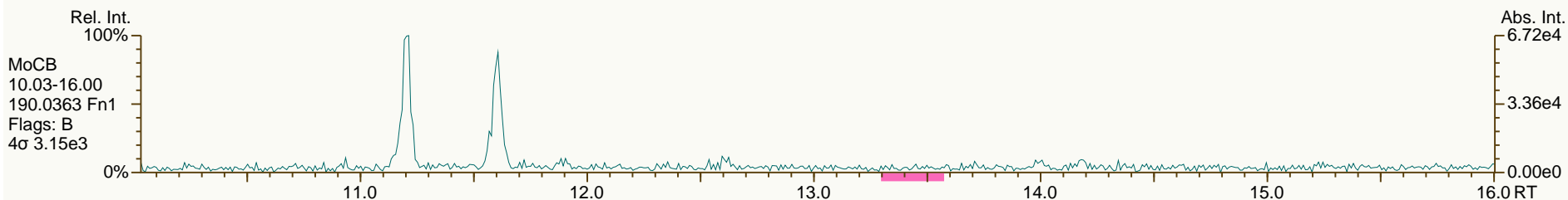
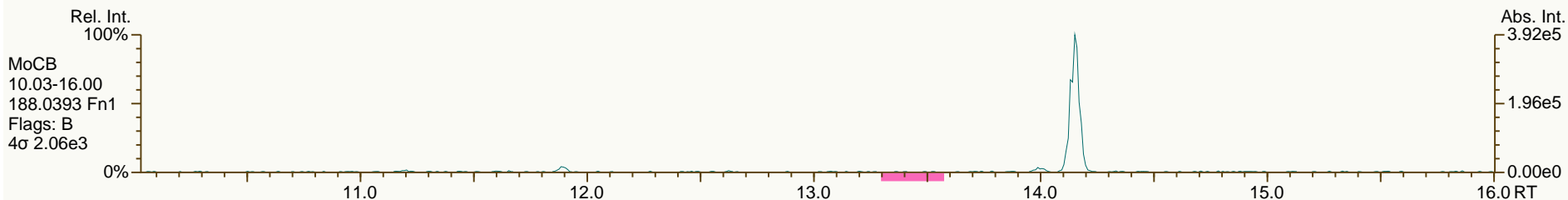




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Instr: AutoSpec-Premier MM7

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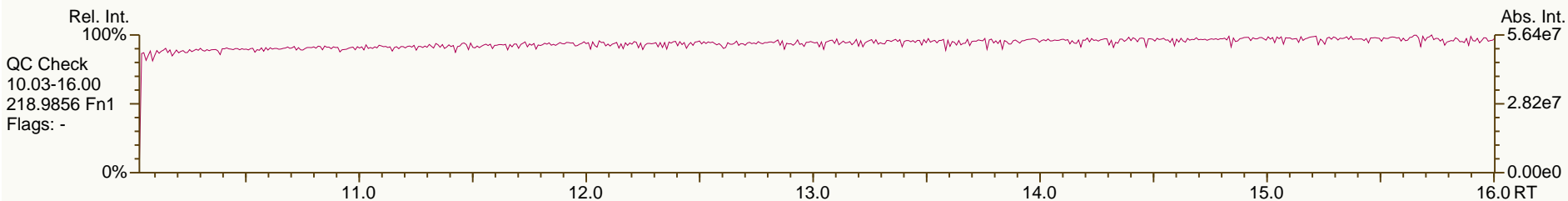
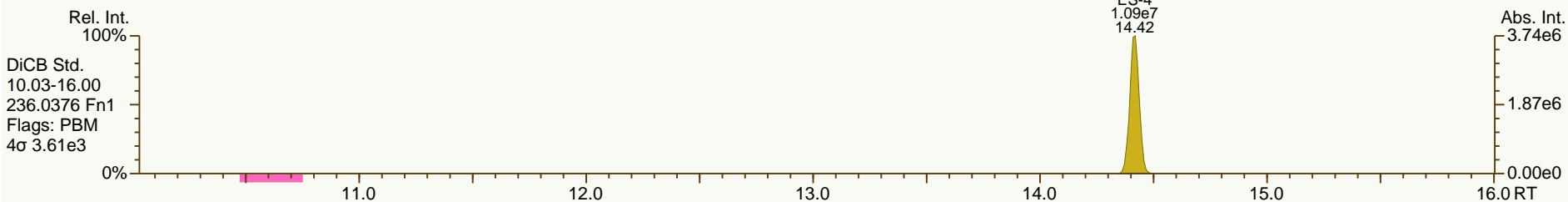
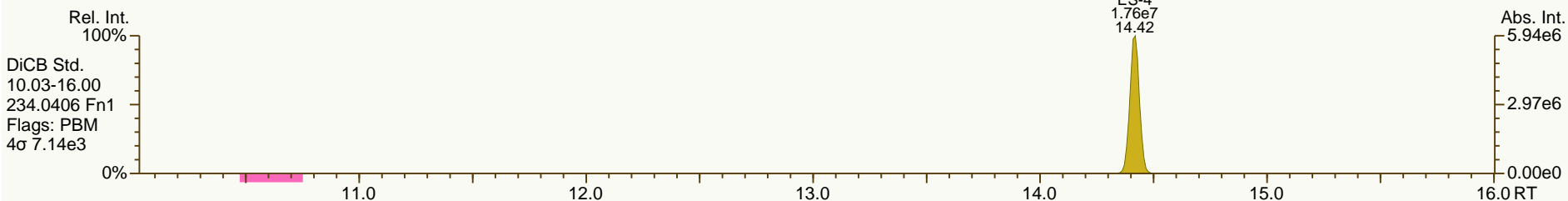
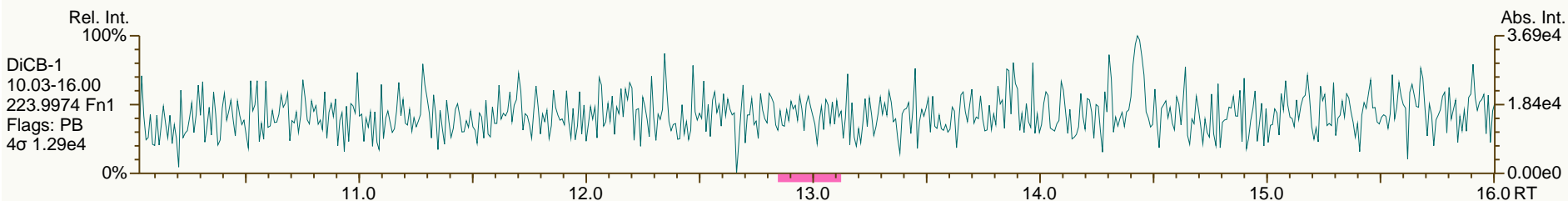
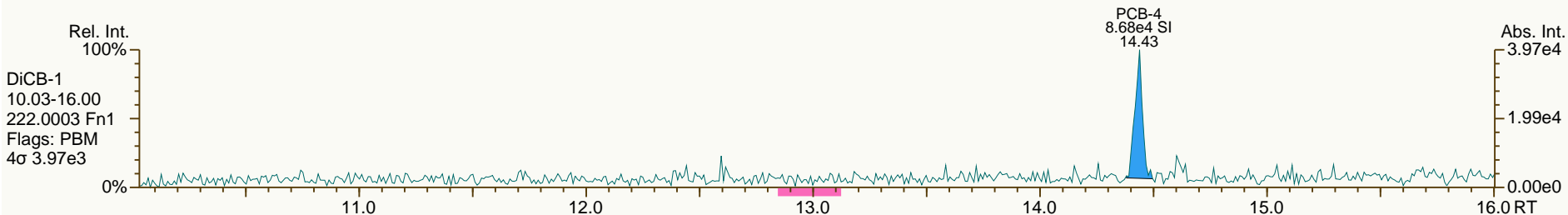
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 Instr: AutoSpec-Premier MM7

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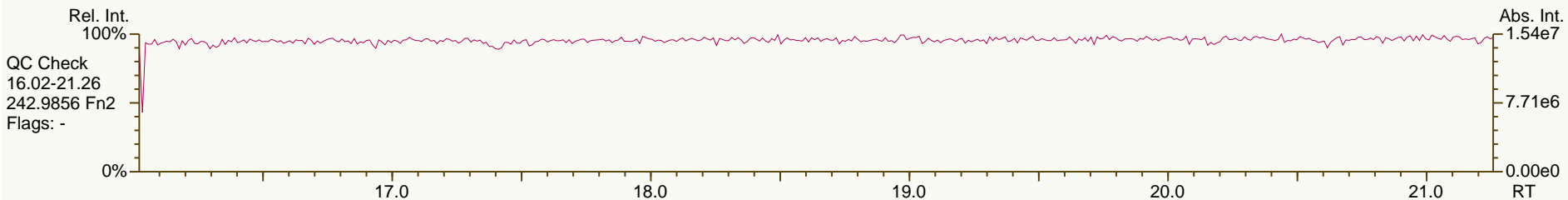
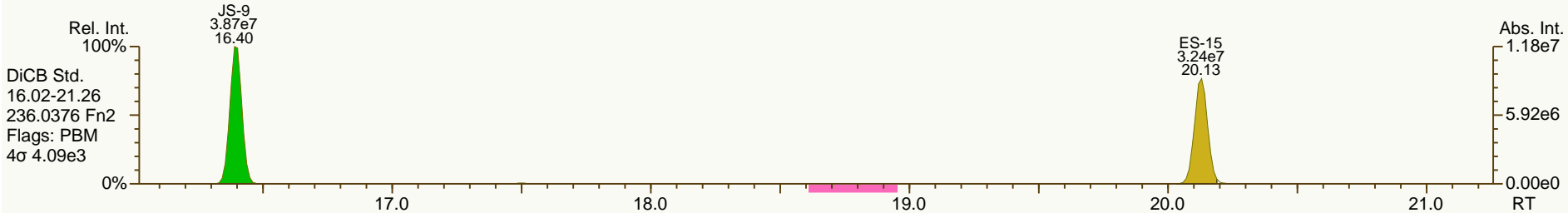
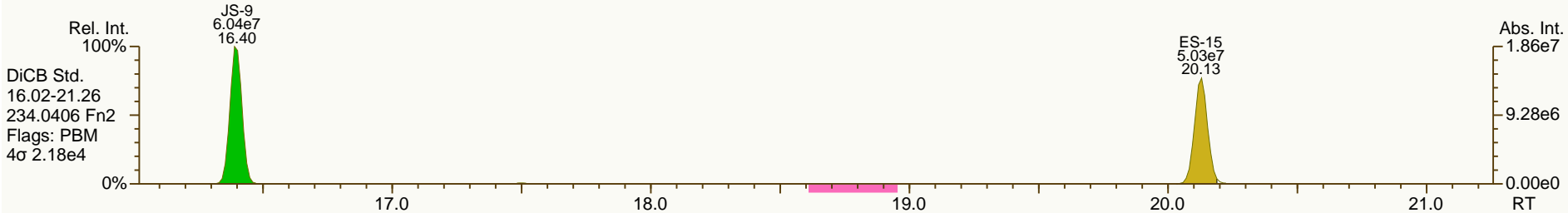
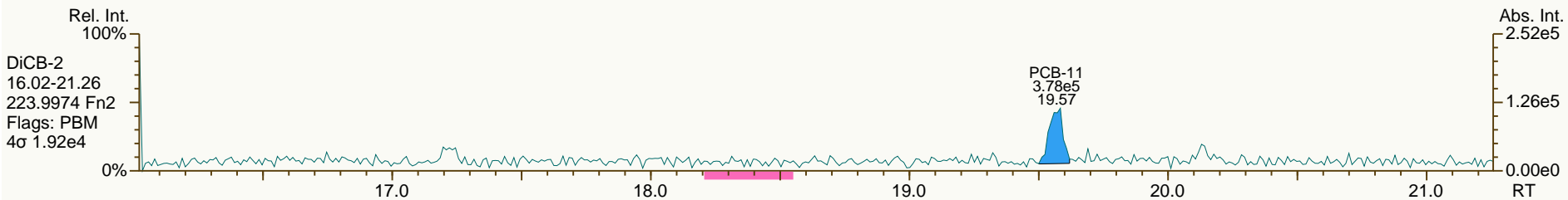
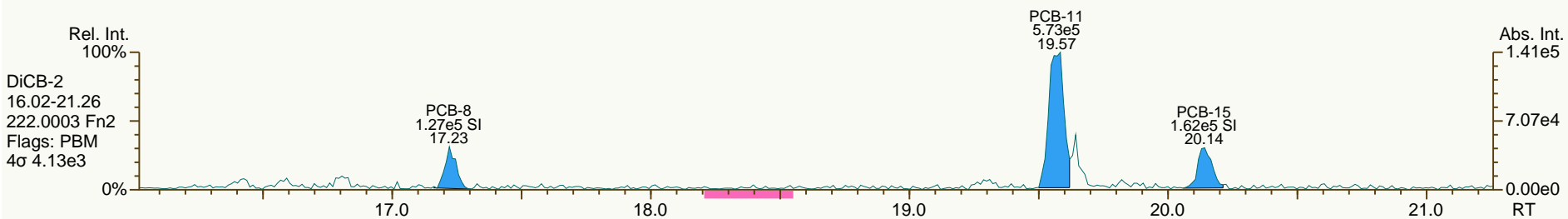
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SGS-AP ID: A6504\_11892\_PCB\_006  
 Instr: AutoSpec-Premier MM7

Sample ID: EF006.1-1SWMID-140313-N (TOTAL)  
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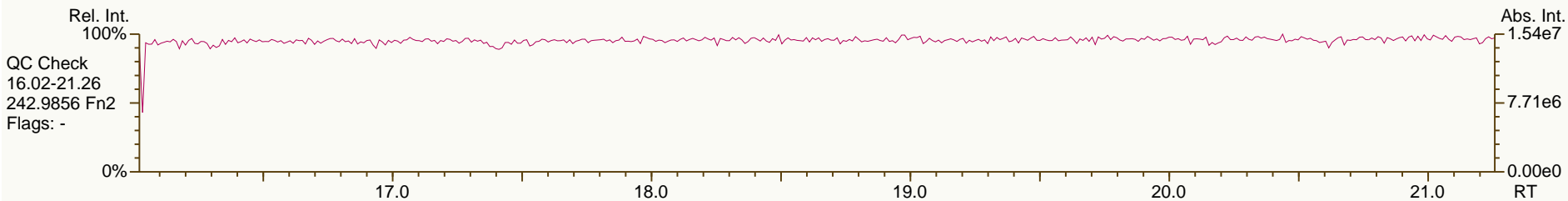
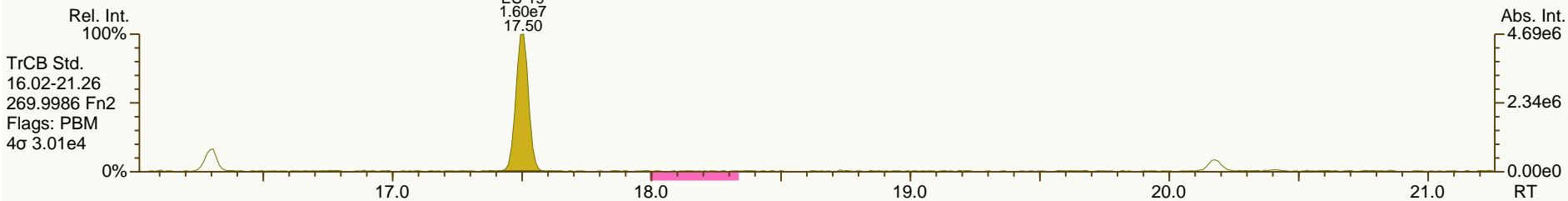
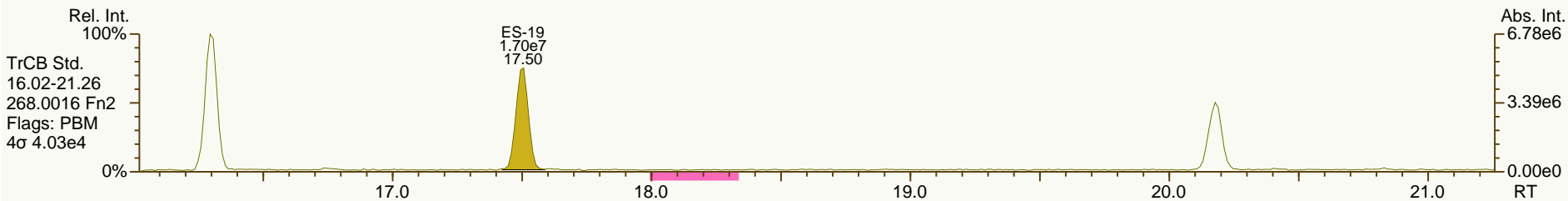
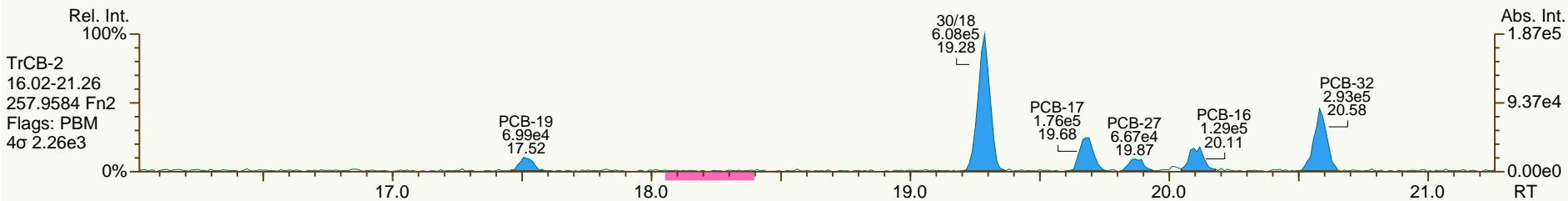
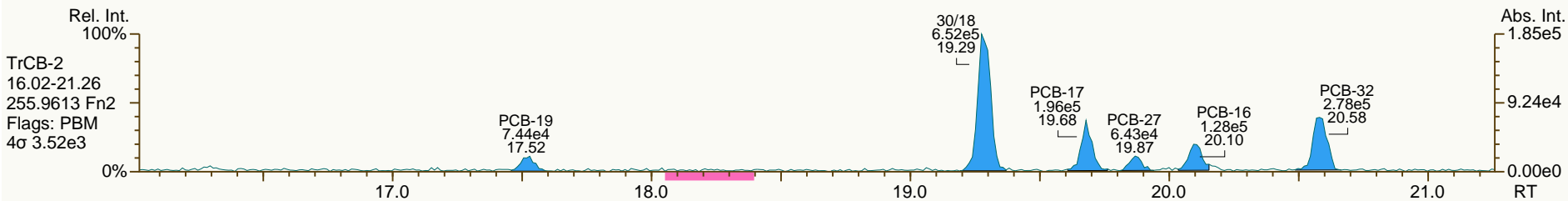
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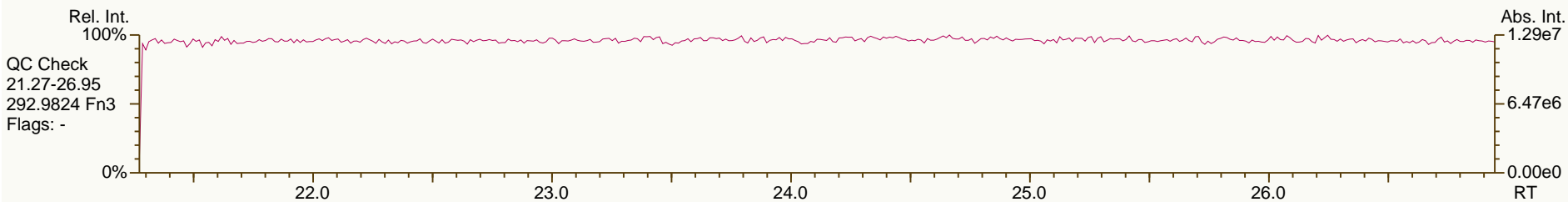
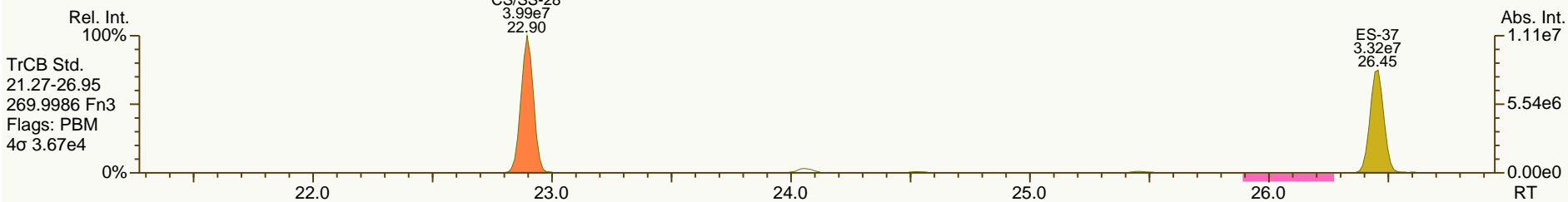
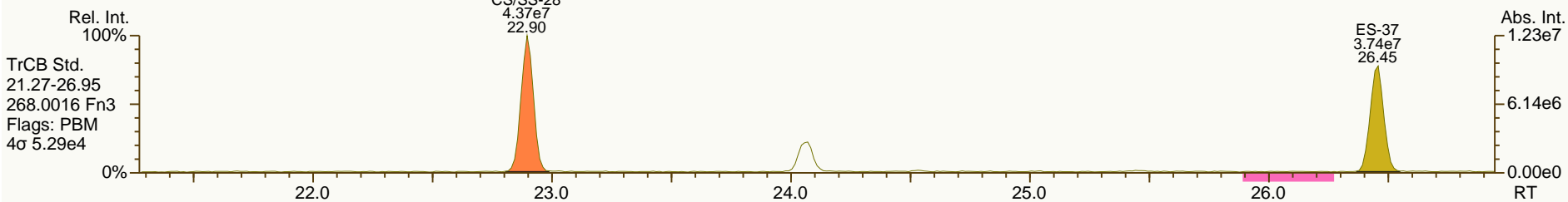
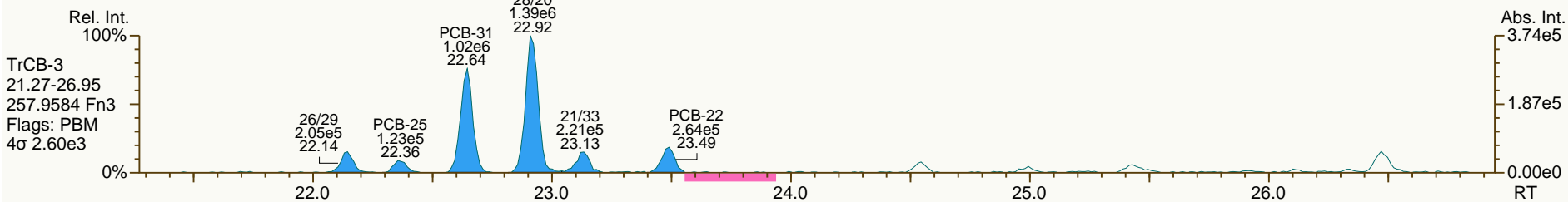
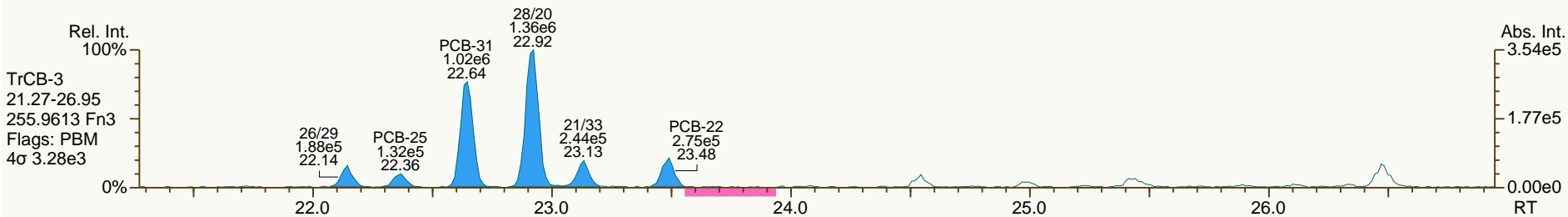
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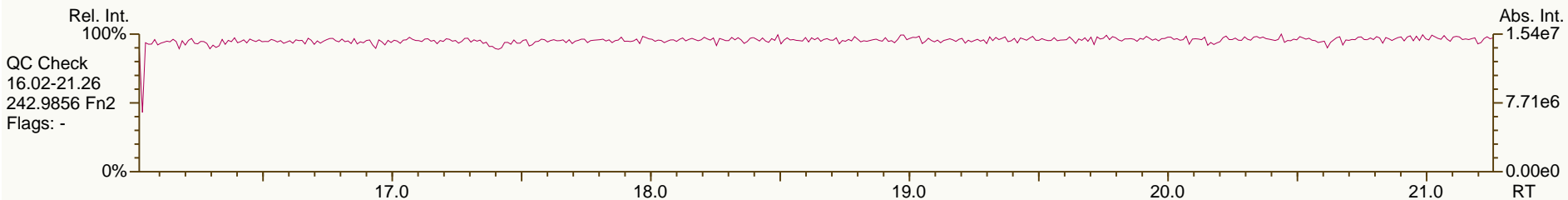
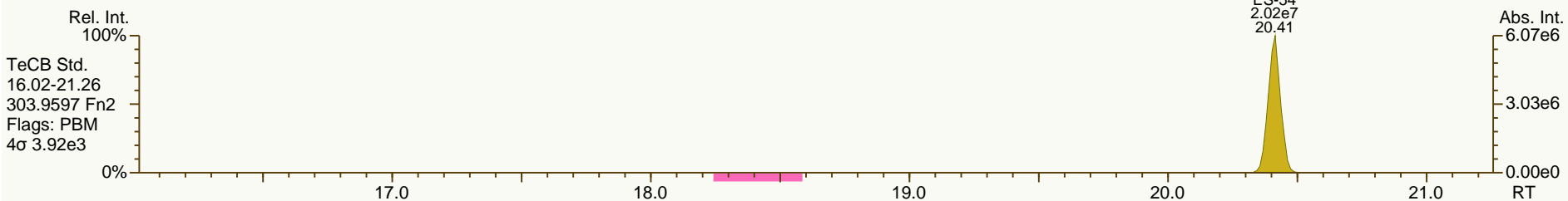
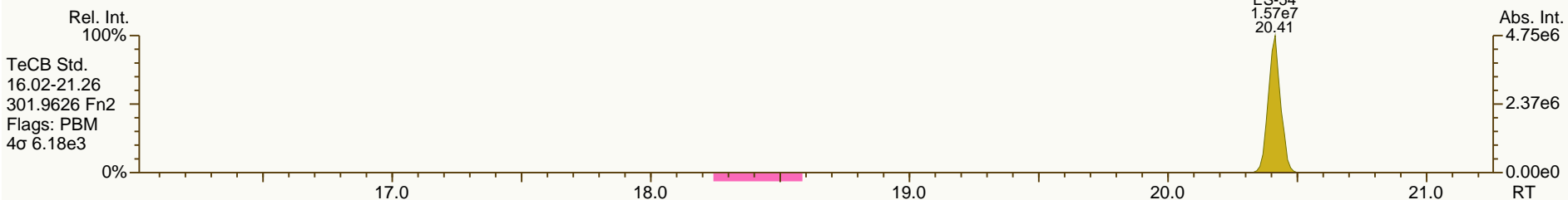
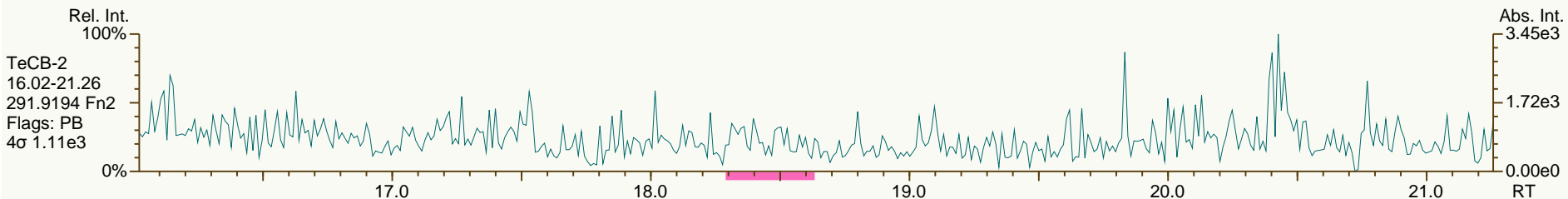
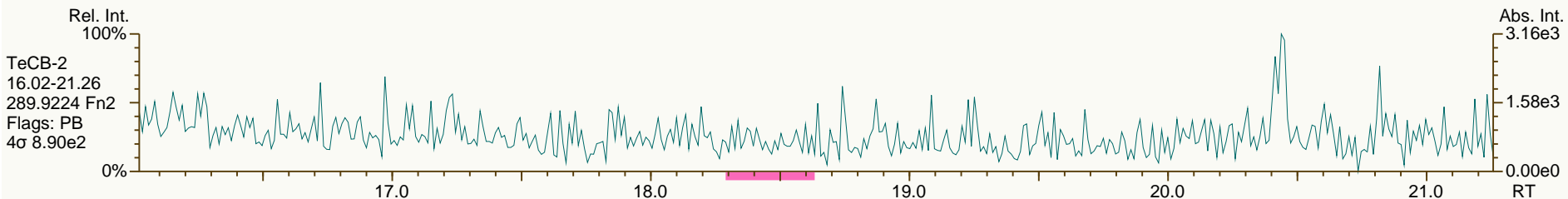
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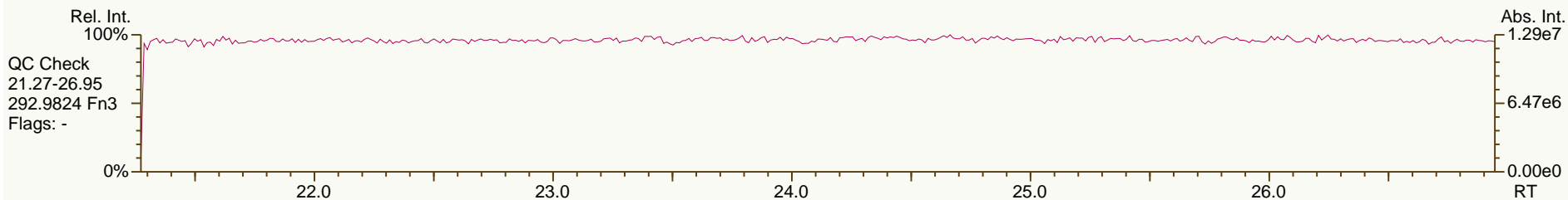
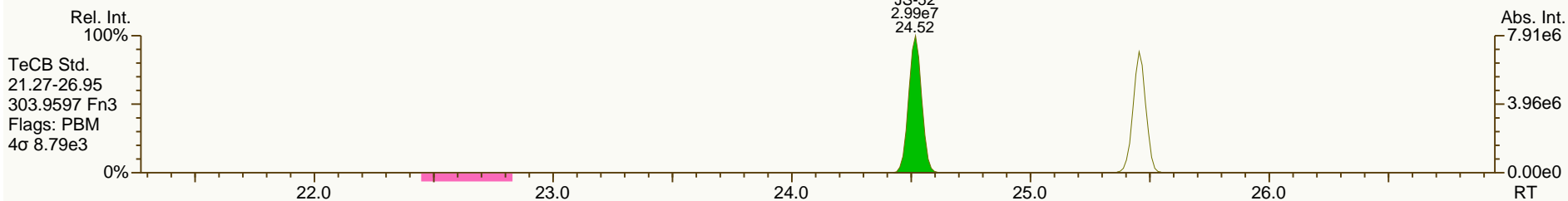
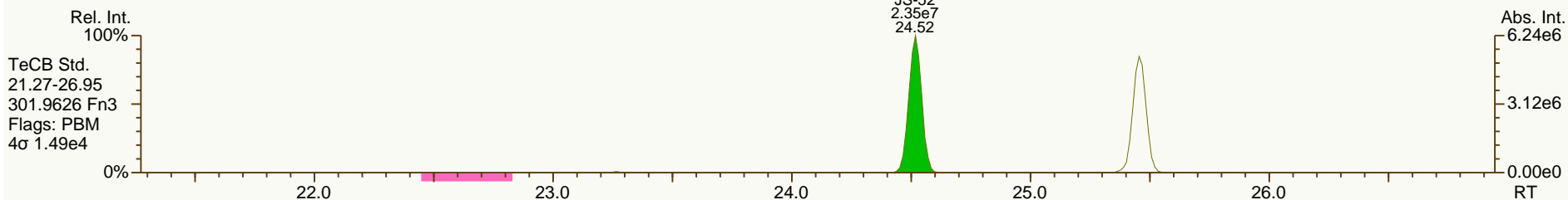
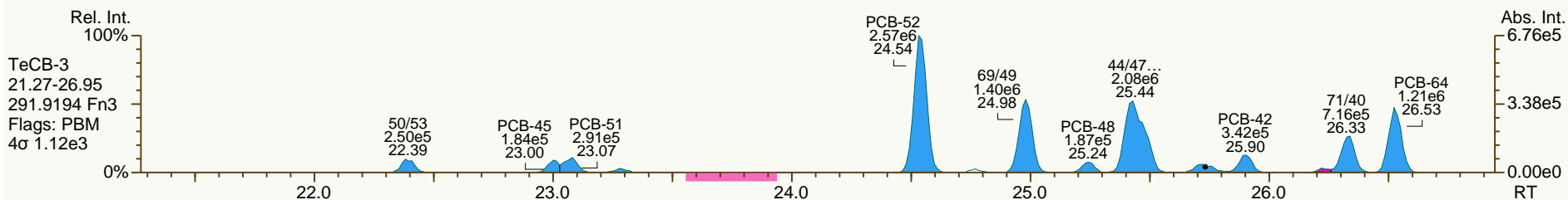
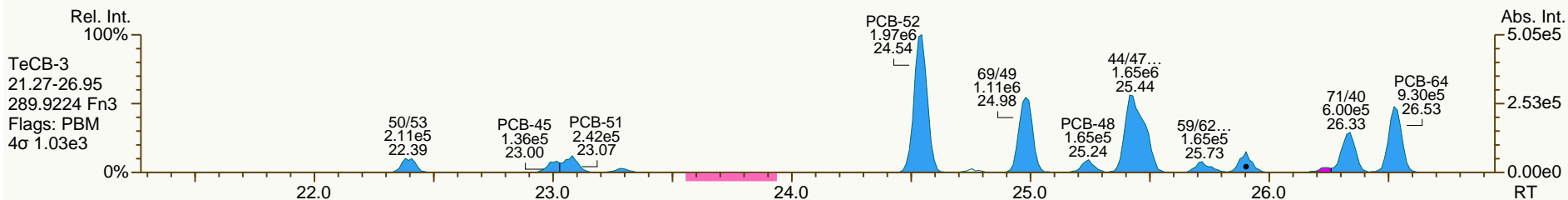
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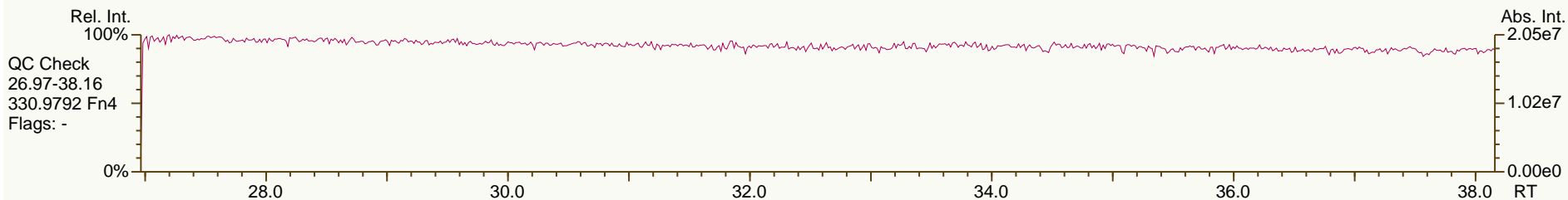
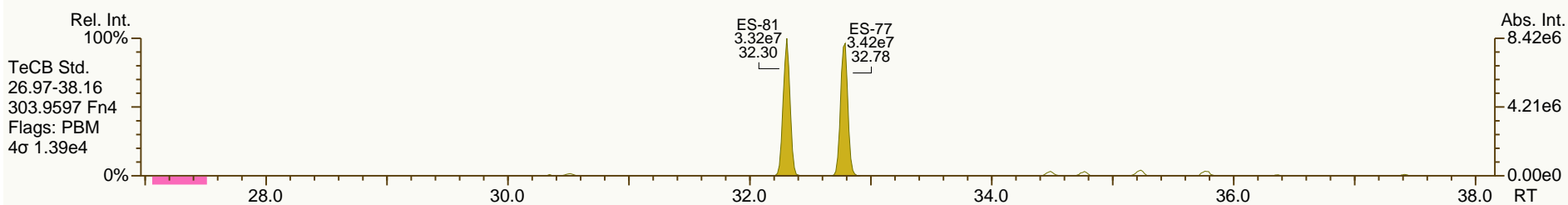
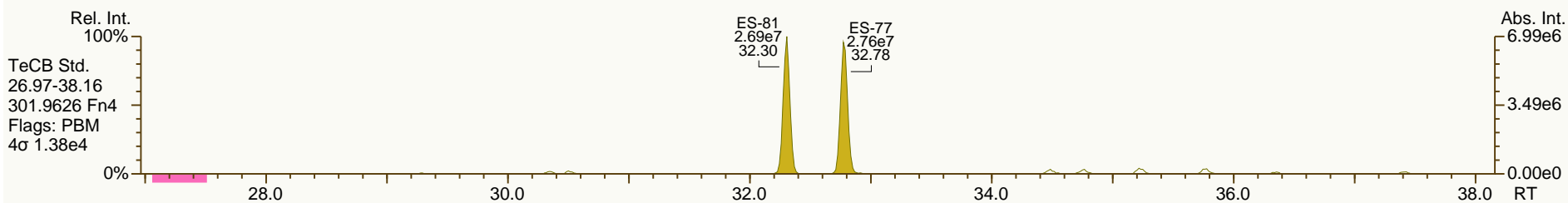
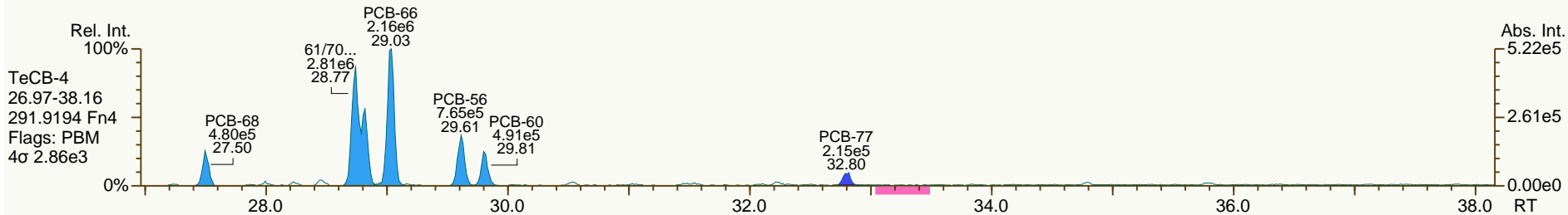
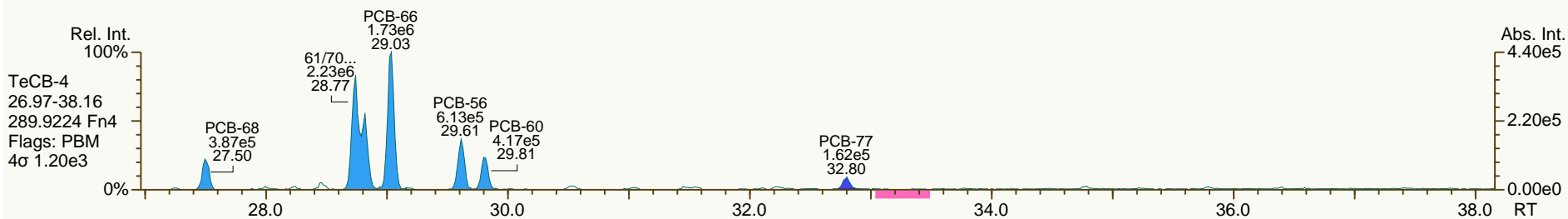
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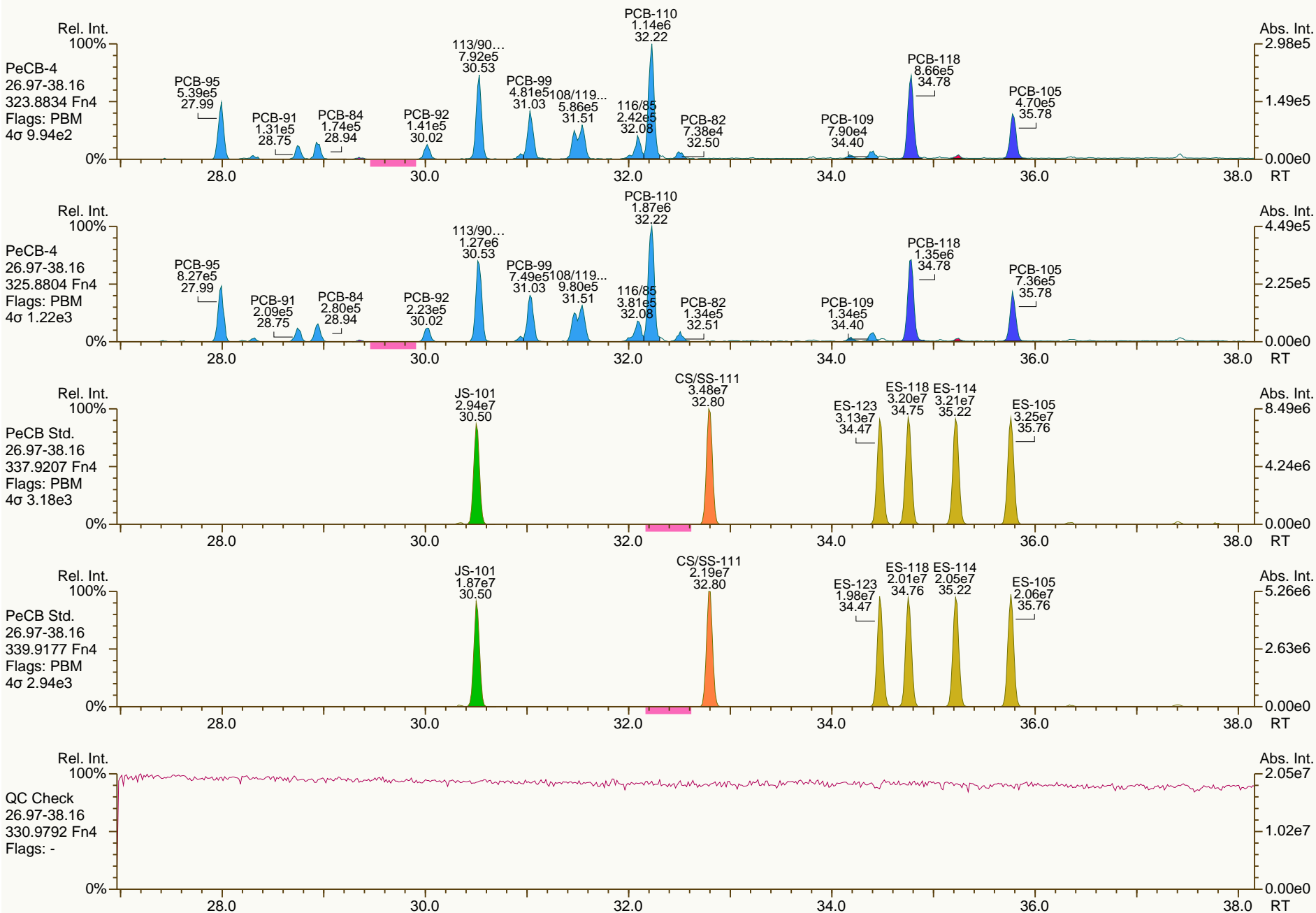
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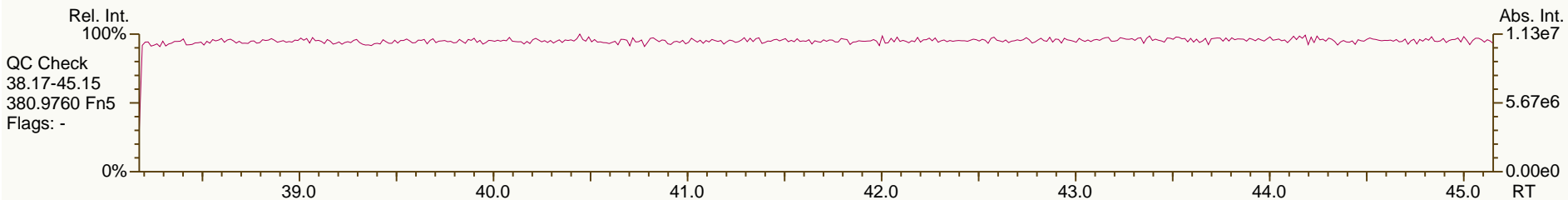
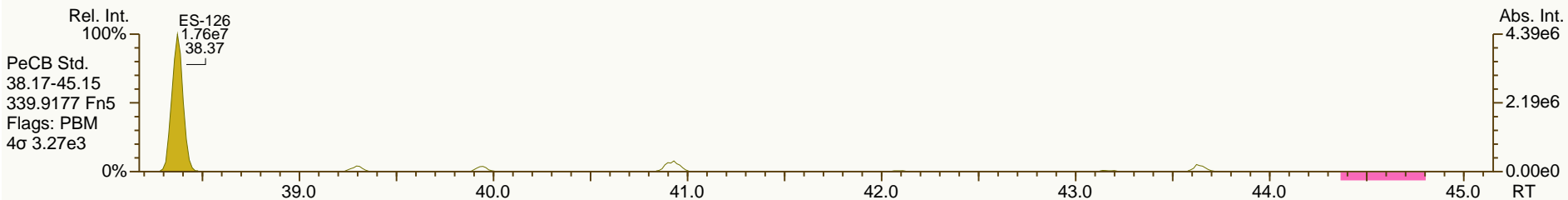
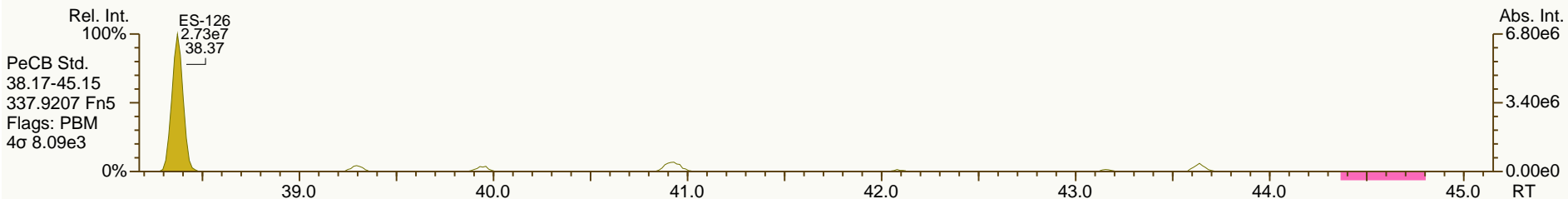
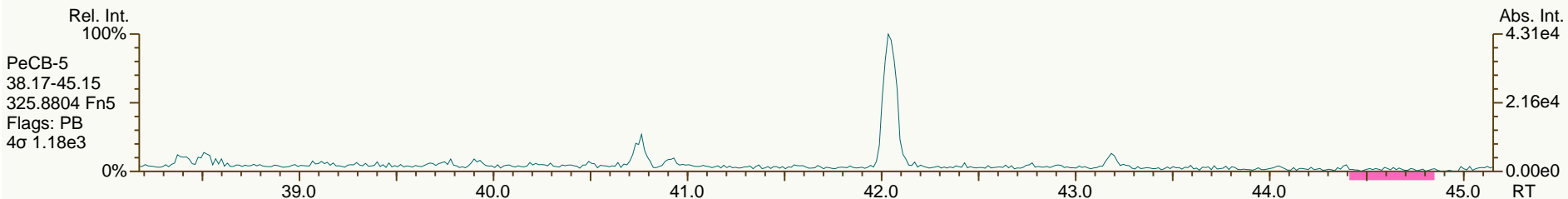
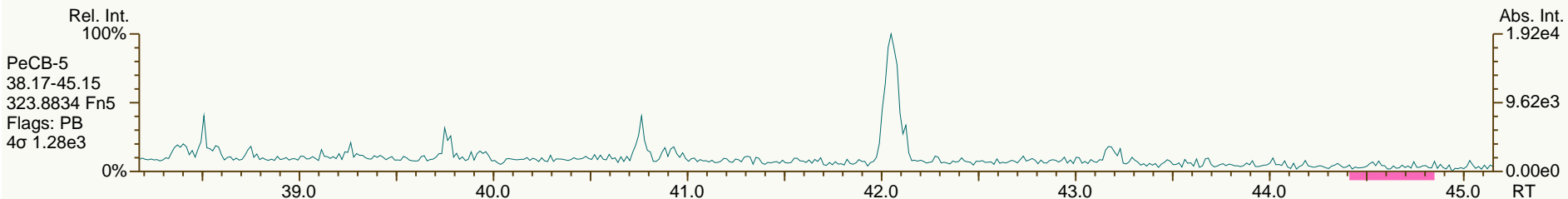
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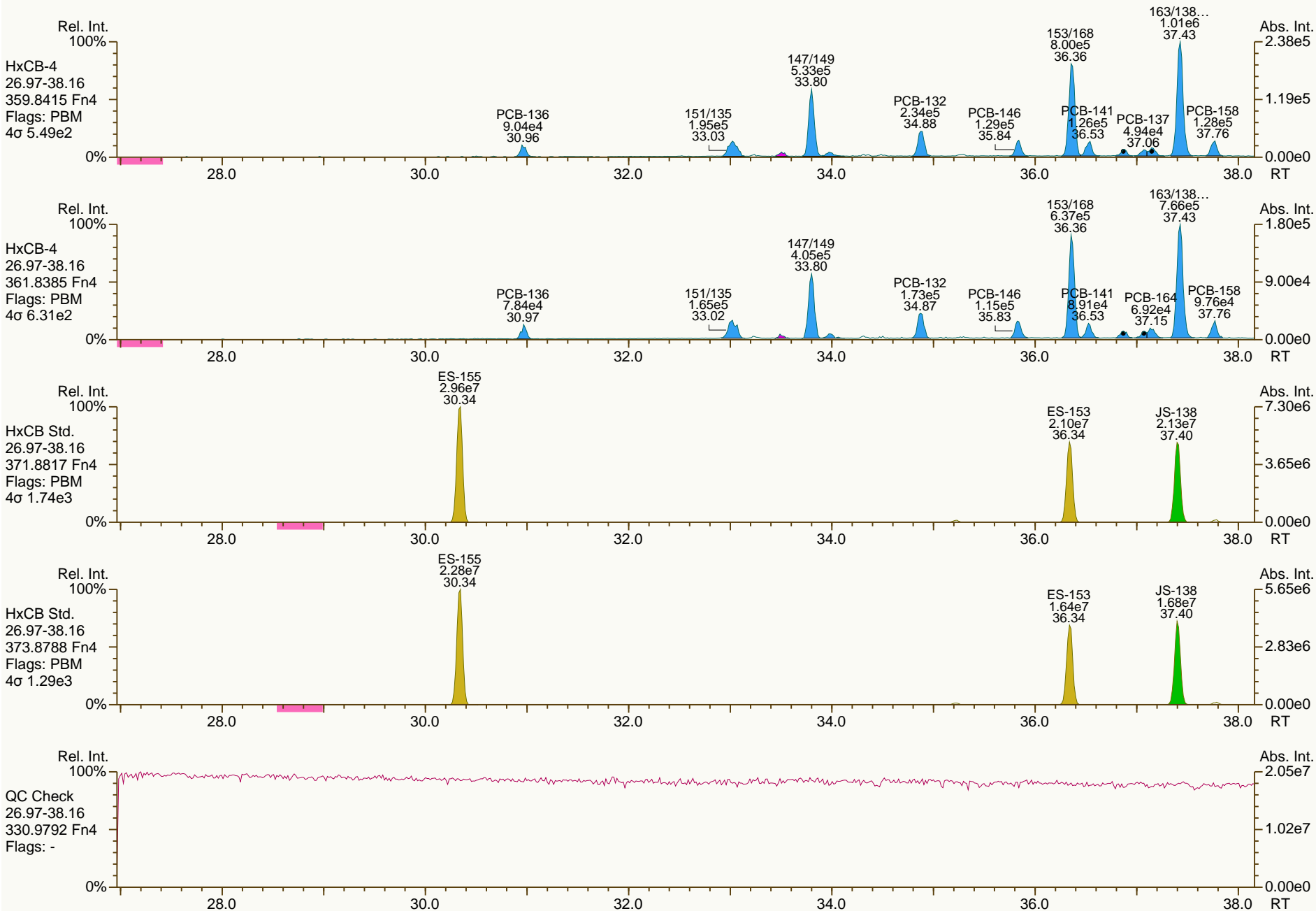
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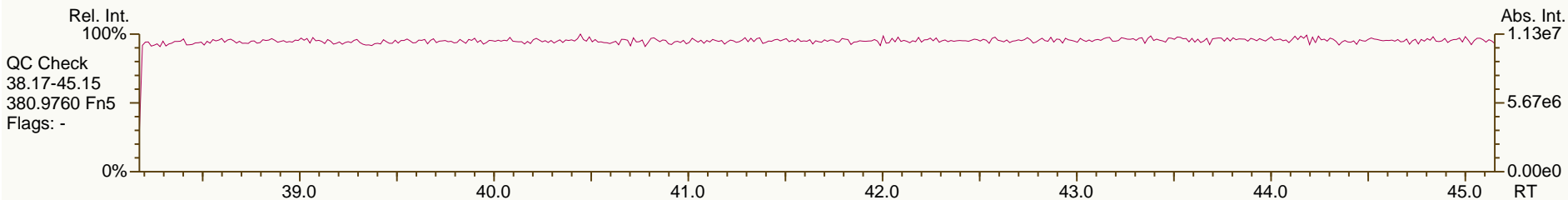
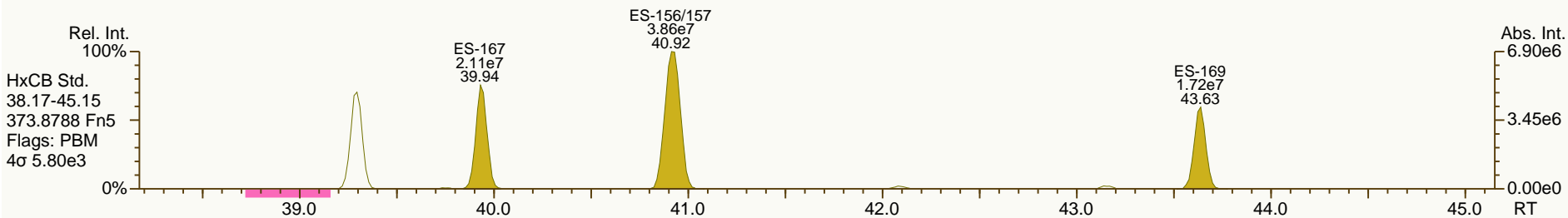
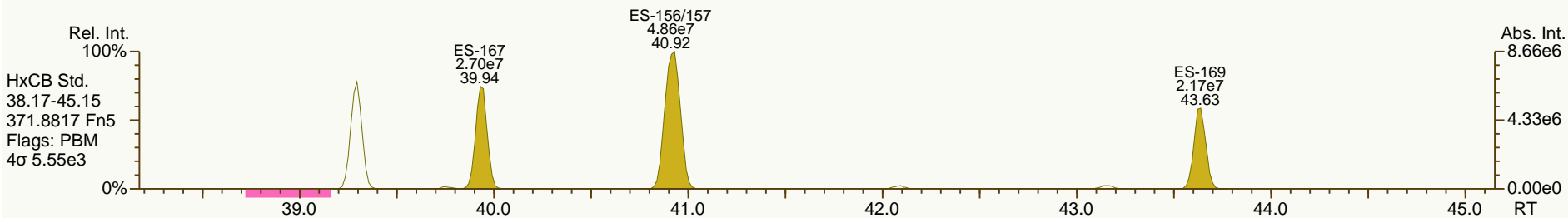
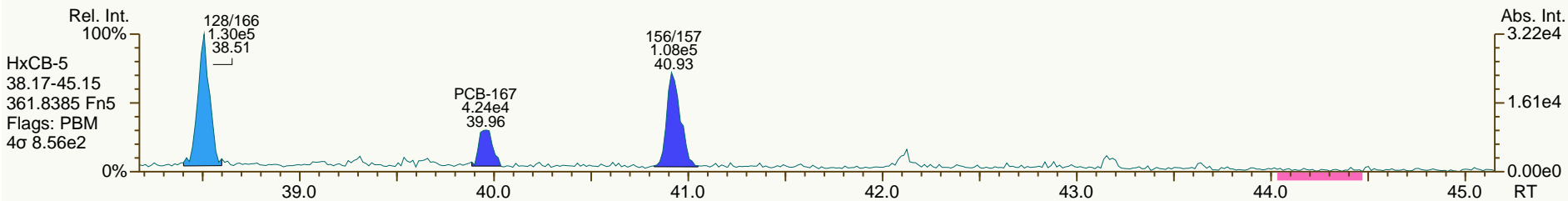
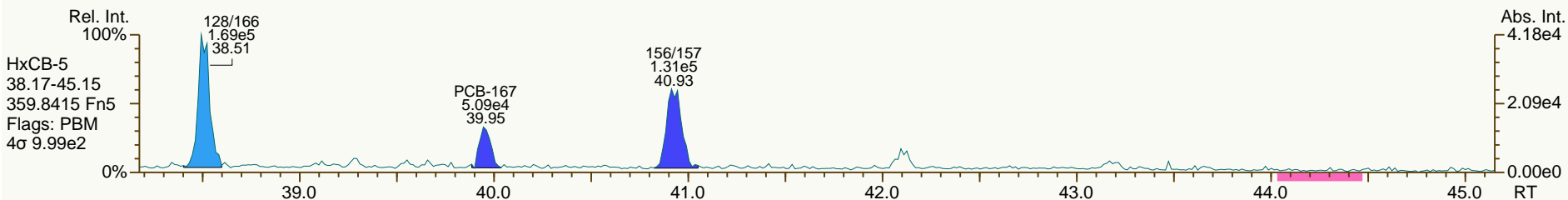
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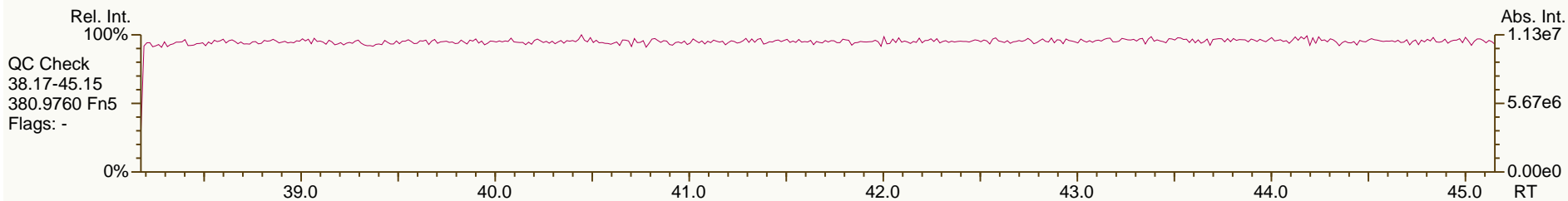
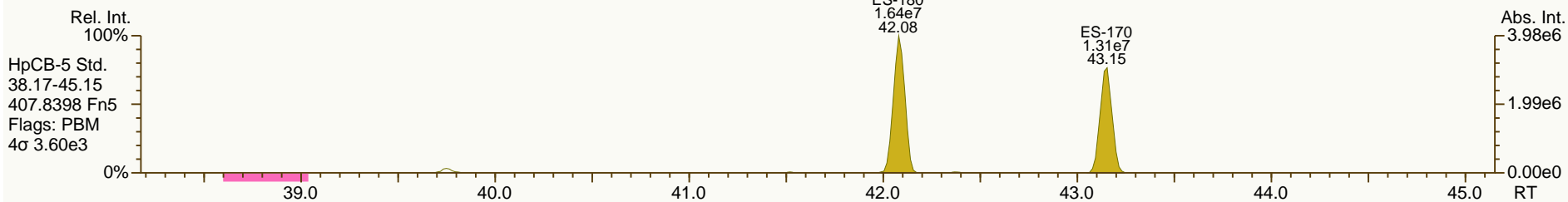
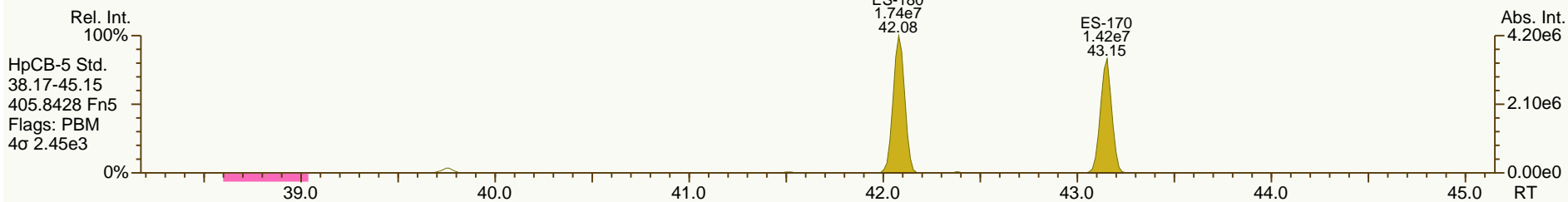
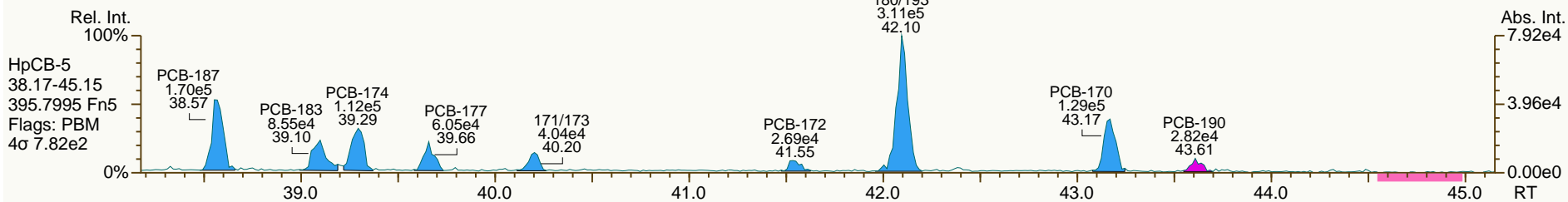
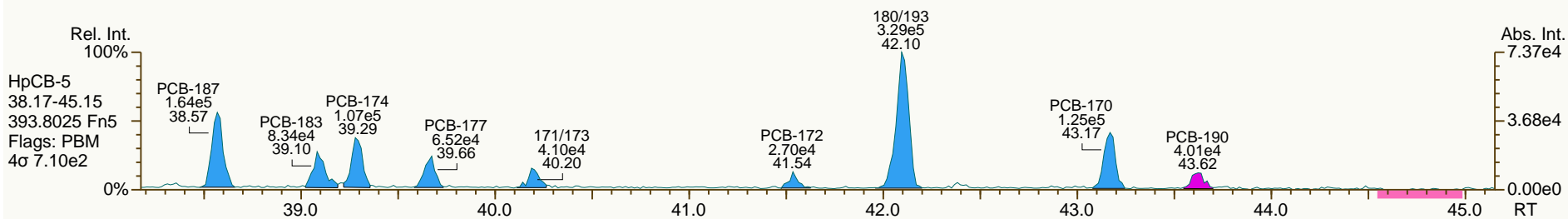
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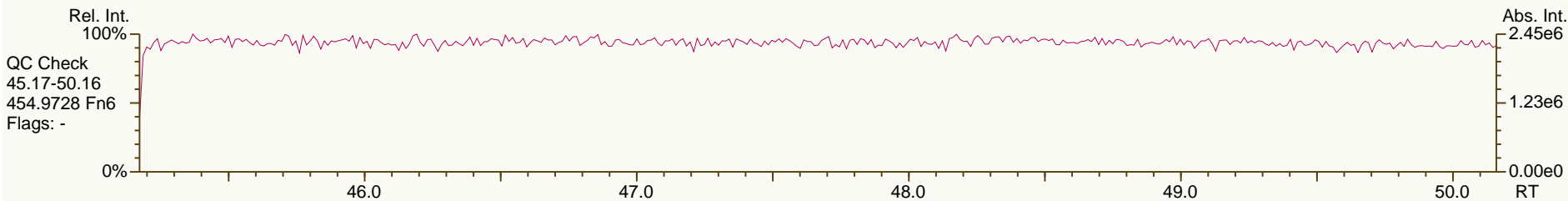
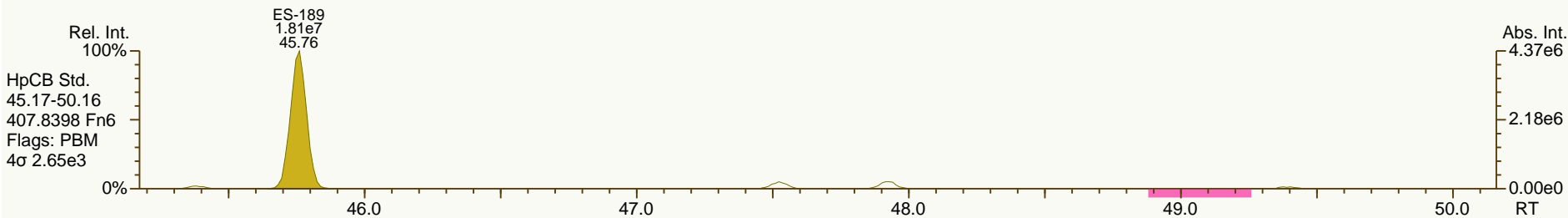
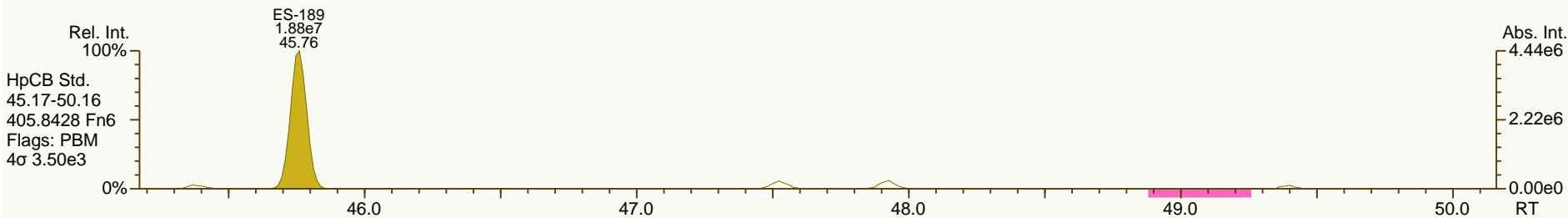
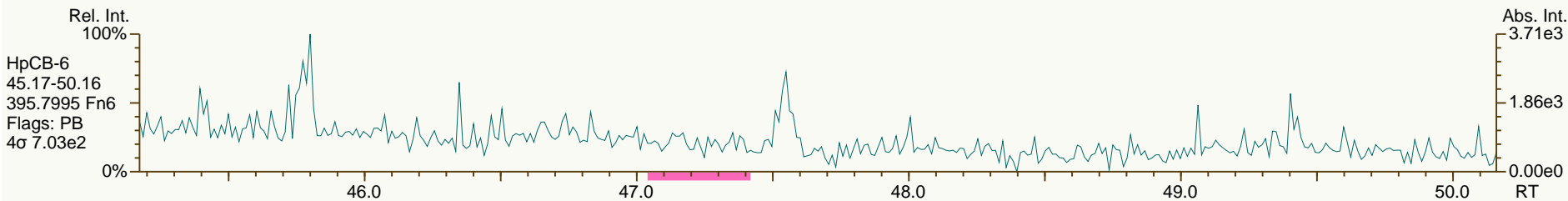
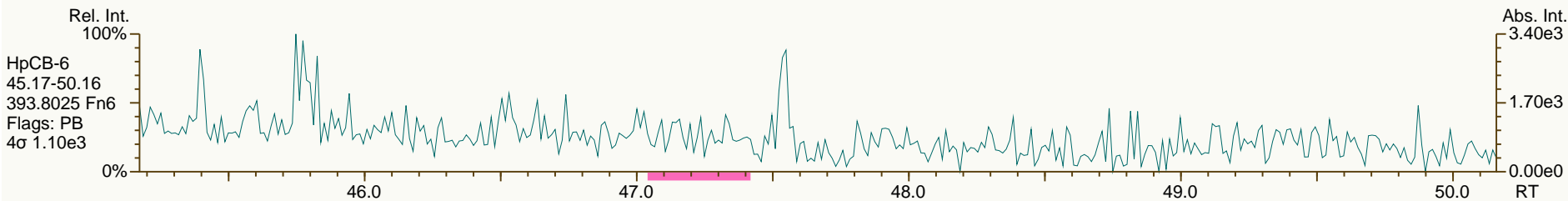
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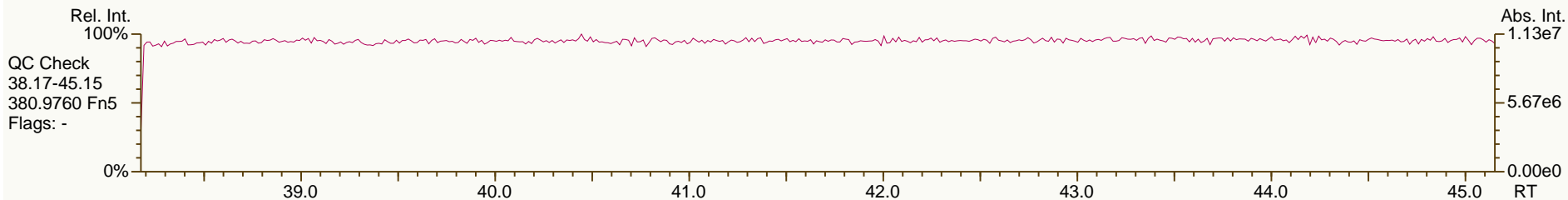
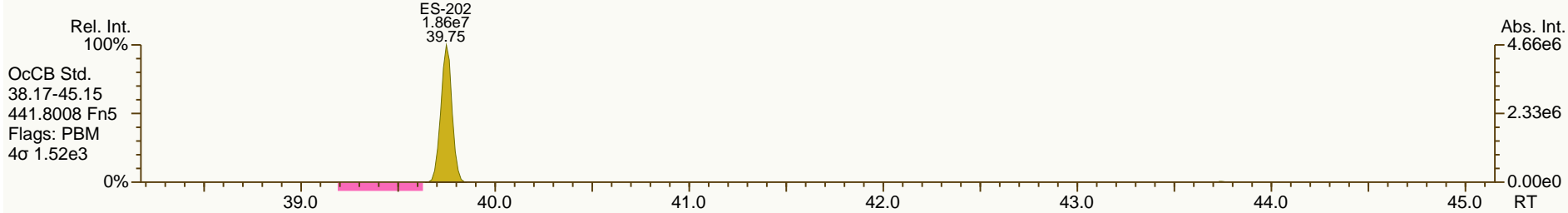
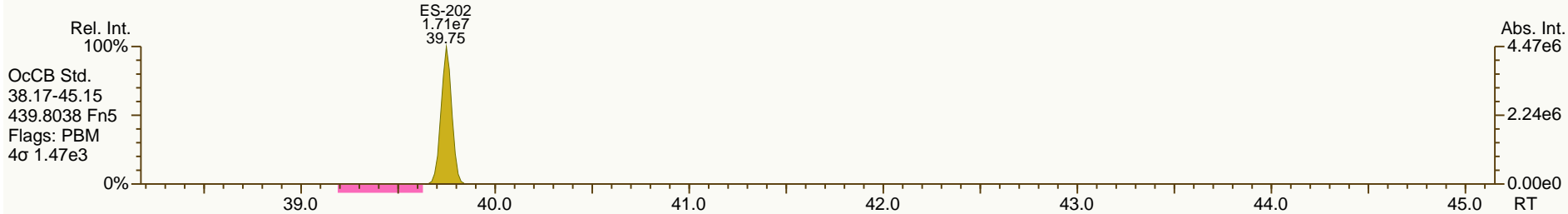
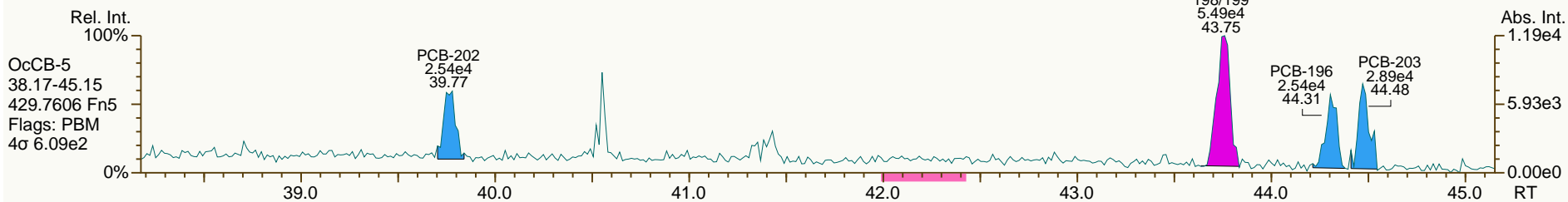
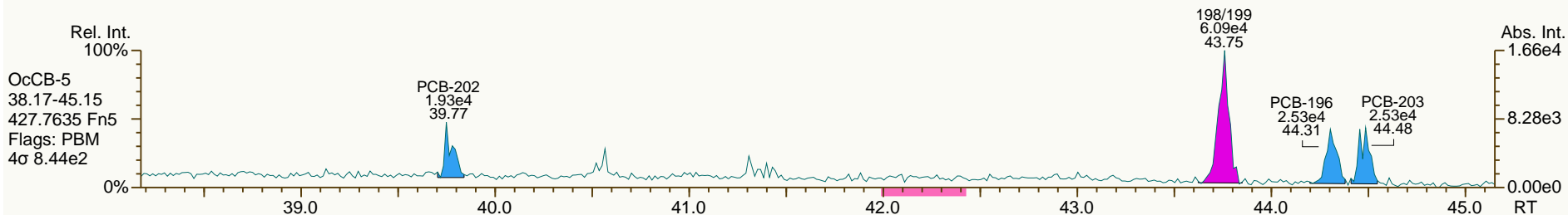




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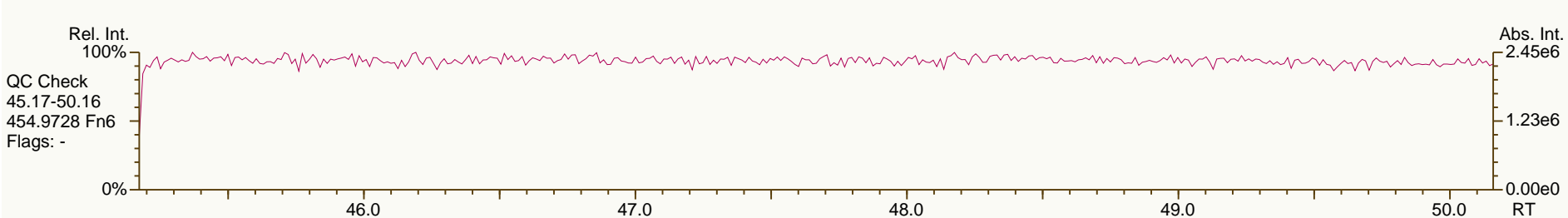
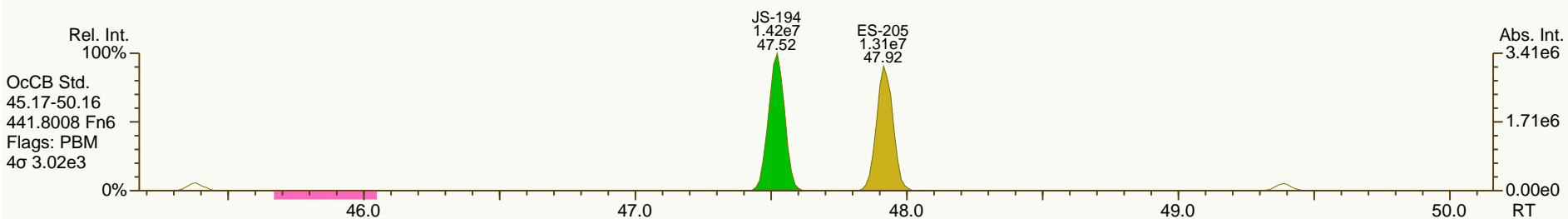
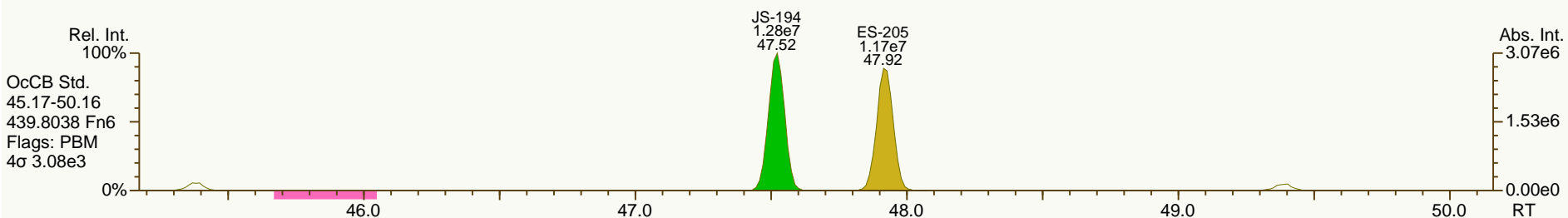
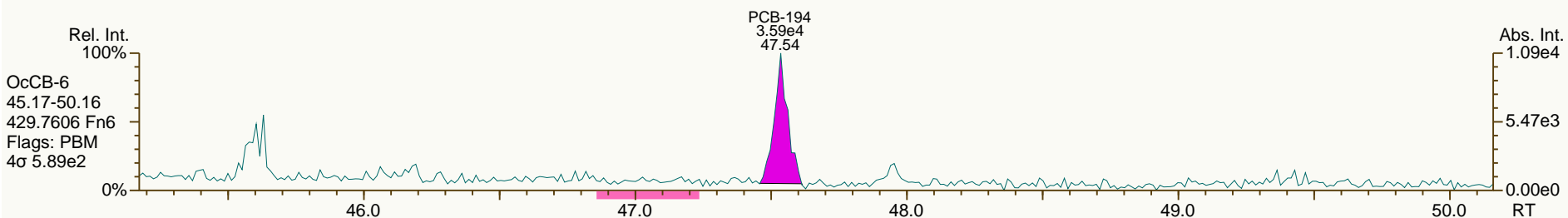
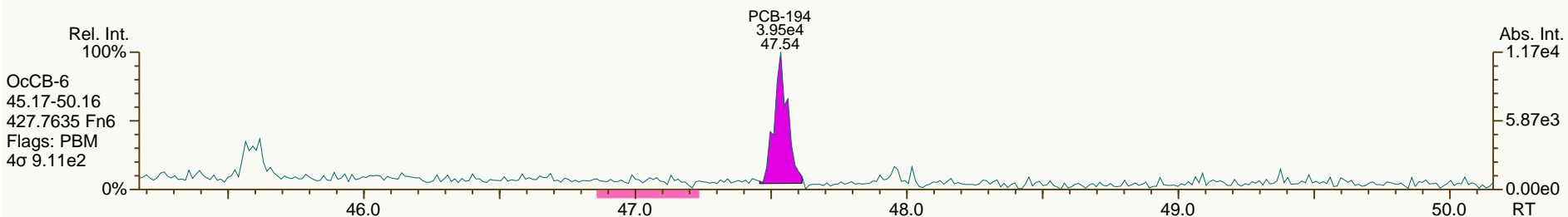
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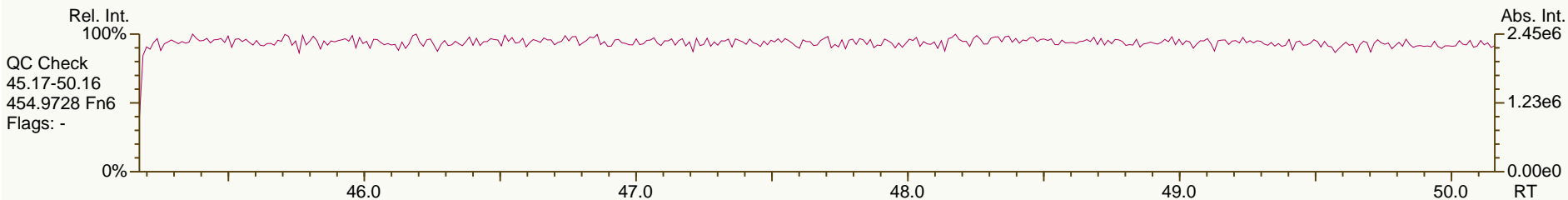
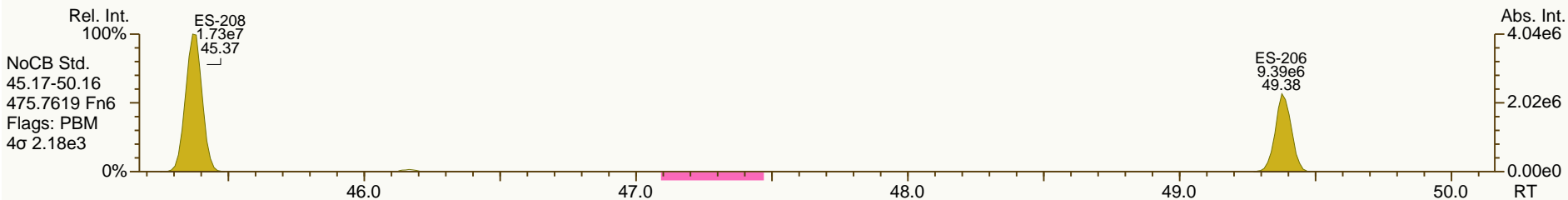
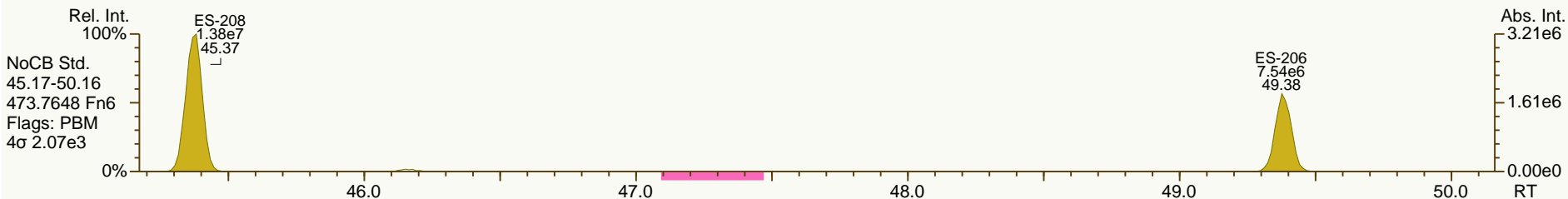
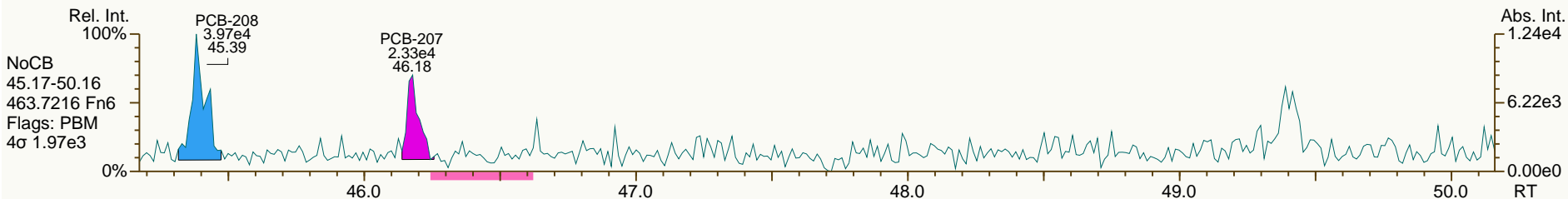
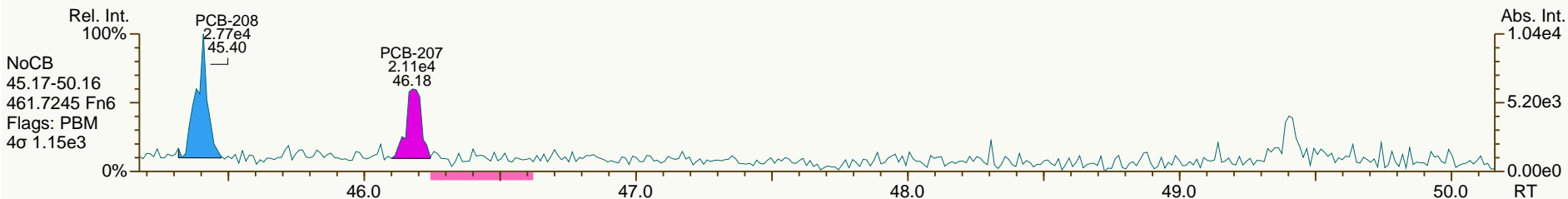
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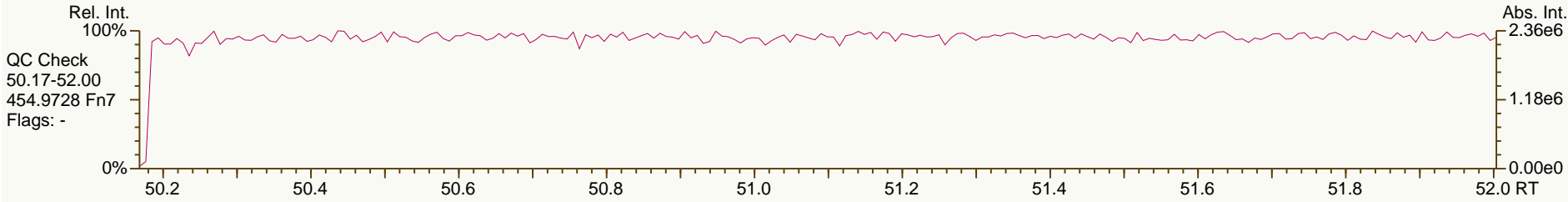
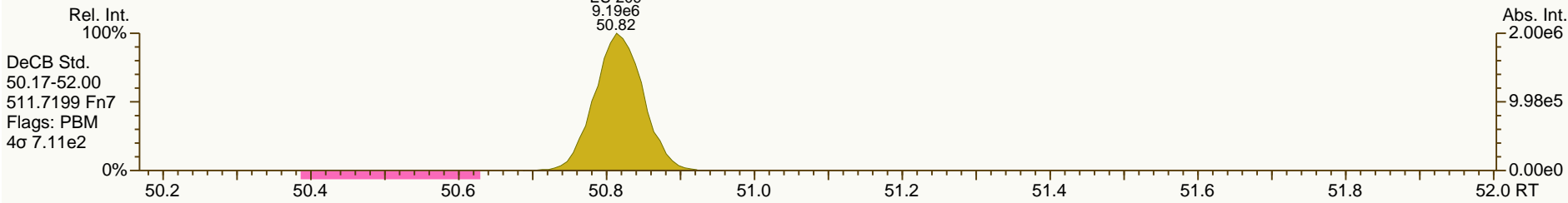
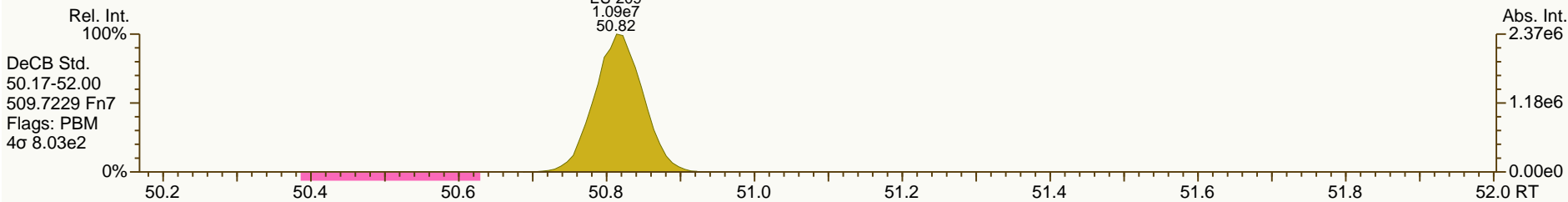
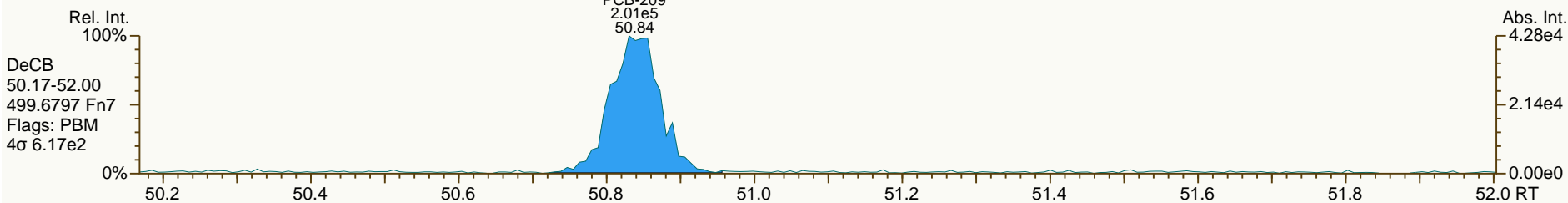
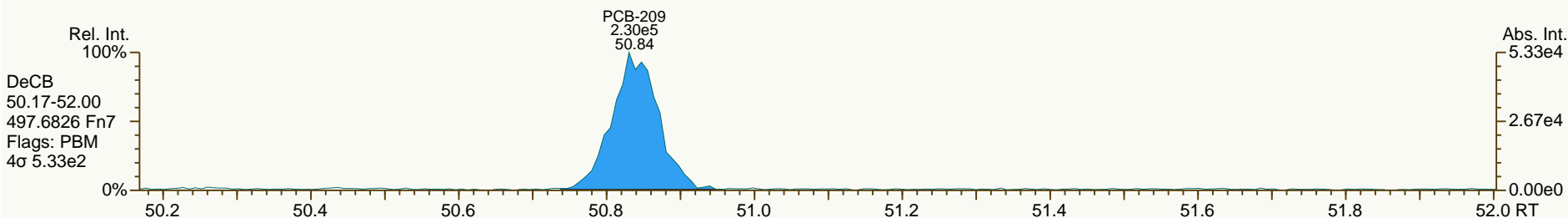
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SGS-AP ID: A6504\_11892\_PCB\_006  
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Lab ID: A6504\_11892\_PCB\_007

ACQ: 27-Mar-2014 03:33:35 LKB

Wt/Vol: 0.94 L

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Client ID: PB119\_B-1SWMID-140313-N (TOTAL)

UTP: 31-Mar-2014 18:09 CEM

J-level: 10.6 pg/L Split: 1

Checkcode: 251-126-RZF

Datafile: 140326X15

RPT: 31-Mar-2014 18:59 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.81	J	1.0006	1.0007	+0.2	1.05E+05	0.73	1.15	3.49	4.02E+03	1.35
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.02E+03	1.44
PCB-105 233'44'-PeCB	35.79	J EMPC	1.0007	1.0006	-0.2	1.05E+05	0.50	1.11	4.26	2.04E+03	0.851
PCB-114 2344'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.20	ND	2.04E+03	0.788
PCB-118 23'44'5'-PeCB	34.78	B	1.0006	1.0006	0	3.40E+05	0.62	1.19	13.2	2.04E+03	0.804
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	2.04E+03	0.814
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	3.19E+03	1.6
PCB-156/157 ...-HxCB	40.93	J C	1.0005	1.0002	-0.7	3.54E+04	1.16	1.10	1.69	1.28E+03	0.832
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.28E+03	0.547
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.28E+03	0.711
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.34E+03	0.781
PCB-209 DeCB	50.84	J	1.0004	1.0003	-0.3	2.89E+04	1.08	1.11	2.49	1.08E+03	1.09
ES PCB-1	11.89		0.7244	0.7245	+0.1	4.42E+07	3.28	1.19	44.9 %	15%	150%
ES PCB-3	14.18		0.8639	0.8640	+0.1	5.01E+07	3.34	1.09	55.8 %	15%	150%
ES PCB-4	14.43		0.8794	0.8794	0	2.69E+07	1.56	0.52	62.4 %	25%	150%
ES PCB-15	20.14		1.2273	1.2275	+0.2	7.58E+07	1.58	1.04	88.1 %	25%	150%
ES PCB-19	17.51		1.0673	1.0673	0	3.13E+07	1.08	0.51	74.9 %	25%	150%
ES PCB-37	26.46		1.0788	1.0789	+0.2	6.34E+07	1.10	1.66	82.7 %	25%	150%
ES PCB-54	20.42		0.8328	0.8326	-0.2	3.32E+07	0.76	0.86	83.5 %	25%	150%
ES PCB-77	32.79		1.3366	1.3368	+0.4	5.56E+07	0.81	1.38	87.2 %	25%	150%
ES PCB-81	32.31		1.3172	1.3174	+0.4	5.34E+07	0.80	1.37	84.7 %	25%	150%
ES PCB-104	25.40		0.8324	0.8323	-0.2	3.51E+07	1.62	0.80	101 %	25%	150%
ES PCB-105	35.77		1.1721	1.1722	+0.2	4.70E+07	1.62	1.20	90.8 %	25%	150%
ES PCB-114	35.23		1.1544	1.1545	+0.2	4.71E+07	1.62	1.22	89.8 %	25%	150%
ES PCB-118	34.76		1.1392	1.1393	+0.2	4.60E+07	1.63	1.16	92.2 %	25%	150%
ES PCB-123	34.48		1.1300	1.1301	+0.2	4.63E+07	1.60	1.19	90.6 %	25%	150%
ES PCB-126	38.38		1.2577	1.2578	+0.2	4.04E+07	1.60	1.03	91.4 %	25%	150%
ES PCB-153	36.35		0.9716	0.9716	0	3.43E+07	1.32	1.11	90.2 %	25%	150%
ES PCB-155	30.35		0.8113	0.8112	-0.2	4.72E+07	1.27	1.59	87.5 %	25%	150%
ES PCB-156/157	40.93		1.0940	1.0940	0	8.14E+07	1.25	1.60	75 %	25%	150%
ES PCB-167	39.94		1.0677	1.0677	0	4.28E+07	1.24	1.67	75.6 %	25%	150%
ES PCB-169	43.64		1.1666	1.1666	0	3.66E+07	1.26	1.56	69.4 %	25%	150%
ES PCB-170	43.16		0.9080	0.9080	0	2.50E+07	1.08	0.95	90.9 %	25%	150%
ES PCB-180	42.09		0.8855	0.8855	0	3.11E+07	1.10	1.14	94.3 %	25%	150%
ES PCB-188	35.22		0.7411	0.7411	0	3.42E+07	1.08	0.94	107 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	3.64E+07	1.03	1.58	94.6 %	25%	150%
ES PCB-202	39.76		0.8365	0.8365	0	3.29E+07	0.91	0.97	100 %	25%	150%
ES PCB-205	47.93		1.0084	1.0084	0	2.54E+07	0.89	1.24	84 %	25%	150%
ES PCB-206	49.39		1.0392	1.0392	0	1.81E+07	0.80	0.83	89.6 %	25%	150%
ES PCB-208	45.38		0.9548	0.9548	0	2.99E+07	0.78	1.17	105 %	25%	150%
ES PCB-209	50.82		1.0694	1.0694	0	2.22E+07	1.17	1.11	82.1 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.91		0.9339	0.9339	0	7.31E+07	1.09	1.11	104 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	5.00E+07	1.58	1.03	105 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	2.21E+07	1.09	0.62	104 %	30%	135%
CS PCB-28	22.91		0.9339	0.9339	0	7.31E+07	1.09	1.85	85.9 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	5.00E+07	1.58	1.22	95.1 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	2.21E+07	1.09	0.58	112 %	30%	135%
JS PCB-9	16.41					8.27E+07	1.54				
JS PCB-52	24.53					4.61E+07	0.80				
JS PCB-101	30.51					4.30E+07	1.59				
JS PCB-138	37.41					3.39E+07	1.28				
JS PCB-194	47.53					2.43E+07	0.90				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			0		0		1.67	
			Di-CBs			30.4		30.4		1.99	
			Tri-CBs			85.4		85.4		2.14	
			Tetra-CBs			187		189		1.05	
			Penta-CBs			83.3		108		0.91	
			Hexa-CBs			75.4		77.1		0.646	
			Hepta-CBs			32.4		34.6		0.78	
			Octa-CBs			8.39		9.64		0.916	
			Nona-CBs			0		0		2.68	
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00		0.95	ND	5.42E+03	1.7
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	5.42E+03	1.49
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00		1.01	ND	5.42E+03	1.65
PCB-4 22'-DiCB	14.45	J	1.0011	1.0012	+0.1	1.10E+05	SI	1.23	7.04	5.45E+03	2.45
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	5.45E+03	1.57
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		0.96	ND	6.43E+03	1.62
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	6.43E+03	1.42
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.01	ND	6.43E+03	1.54
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	6.43E+03	1.54
PCB-8 24'-DiCB	NotFnd		1.0505	-		0.00E+00		1.06	ND	6.43E+03	1.47
PCB-14 35-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	6.43E+03	1.28
PCB-11 33'-DiCB	19.58	B	0.9721	0.9721	0	5.70E+05	1.77	1.06	15	6.43E+03	1.46
PCB-13/12 34' /34-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.05	ND	6.43E+03	1.48
PCB-15 44'-DiCB	20.16	J	1.0008	1.0008	0	3.02E+05	SI	1.02	8.3	6.43E+03	1.53
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00		1.15	ND	5.19E+03	2.54
PCB-30/18 246/22'5-TrCB	19.30	J C	1.1015	1.1019	+0.5	3.07E+05	0.98	1.54	13.5	5.19E+03	1.89
PCB-17 22'4-TrCB	19.69		1.1244	1.1244	0	2.20E+05	0.91	1.32	11.3	5.19E+03	2.21
PCB-27 23'6-TrCB	NotFnd		1.1354	-		0.00E+00		1.79	ND	5.19E+03	1.62
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	5.19E+03	1.7
PCB-16 22'3-TrCB	20.12	J	1.1485	1.1488	+0.4	1.00E+05	1.06	0.98	6.94	5.19E+03	2.97

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.59	J	1.1759	1.1760	+0.1	1.31E+05	1.06	1.92	4.63	5.19E+03	1.51
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.23	ND	5.67E+03	1.54
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	5.67E+03	1.52
PCB-26/29 23'5'/245-TrCB	22.15	J C	0.8382	0.8371	-1.5	1.04E+05	1.11	1.27	2.75	5.67E+03	1.49
PCB-25 23'4-TrCB	22.37	J	0.8457	0.8454	-0.4	1.74E+05	1.01	1.27	4.58	5.67E+03	1.48
PCB-31 24'5-TrCB	22.66	B	0.8562	0.8561	-0.1	4.86E+05	1.02	1.33	12.2	5.67E+03	1.42
PCB-28/20 244'/233'-TrCB	22.93	J B C	0.8669	0.8664	-0.7	5.48E+05	1.13	1.23	14.9	5.67E+03	1.53
PCB-21/33 234/23'4'-TrCB	23.14	J C	0.8738	0.8743	+0.7	1.22E+05	1.13	1.27	3.24	5.67E+03	1.49
PCB-22 234'-TrCB	23.49	J	0.8879	0.8878	-0.1	1.17E+05	0.96	1.18	3.33	5.67E+03	1.6
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	5.67E+03	1.46
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	5.67E+03	1.41
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	5.67E+03	1.55
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.17	ND	5.67E+03	1.62
PCB-37 344'-TrCB	26.48	J	1.0007	1.0007	0	2.54E+05	0.89	1.08	7.91	5.67E+03	1.75
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	1.77E+03	0.678
PCB-50/53 22'46/22'56'-TeCB	22.40	J EMPC C	0.9145	0.9131	-1.9	4.86E+04	1.25	0.91	2.13	2.00E+03	0.884
PCB-45 22'36'-TeCB	NotFnd		0.9385	-		0.00E+00		0.82	ND	2.00E+03	0.975
PCB-51 22'46'-TeCB	23.08		0.9414	0.9410	-0.6	5.79E+05	0.87	0.88	26.3	2.00E+03	0.914
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.73	ND	2.00E+03	1.09
PCB-52 22'55'-TeCB	24.55	B	1.0009	1.0009	0	5.27E+05	0.80	0.89	23.5	2.00E+03	0.898
PCB-73 23'5'6'-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.00E+03	0.681
PCB-43 22'35'-TeCB	NotFnd		1.0100	-		0.00E+00		0.76	ND	2.00E+03	1.05
PCB-69/49 23'46/22'45'-TeCB	24.99	J B C	1.0181	1.0189	+1.2	2.52E+05	0.71	1.09	9.2	2.00E+03	0.736
PCB-48 22'45'-TeCB	25.25	J	1.0296	1.0294	-0.3	6.91E+04	0.83	0.89	3.09	2.00E+03	0.899
PCB-44/47/65 ...-TeCB	25.47	C	1.0384	1.0384	0	8.00E+05	0.80	0.95	33.6	2.00E+03	0.845
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0497	-		0.00E+00		1.24	ND	2.00E+03	0.645
PCB-42 22'34'-TeCB	25.91	J	1.0563	1.0565	+0.3	7.64E+04	0.78	0.82	3.73	2.00E+03	0.982
PCB-41 22'34'-TeCB	NotFnd		1.0700	-		0.00E+00		0.75	ND	2.00E+03	1.07
PCB-71/40 23'4'6/22'33'-TeCB	26.34	J C	1.0738	1.0738	0	1.75E+05	0.77	0.91	7.71	2.00E+03	0.884
PCB-64 234'6'-TeCB	26.53	J	1.0819	1.0818	-0.2	2.01E+05	0.72	1.31	6.1	2.00E+03	0.61
PCB-72 23'55'-TeCB	NotFnd		0.8435	-		0.00E+00		1.27	ND	4.02E+03	1.27
PCB-68 23'45'-TeCB	27.51		0.8514	0.8514	0	1.00E+06	0.77	1.32	30.1	4.02E+03	1.22
PCB-57 233'5'-TeCB	NotFnd		0.8630	-		0.00E+00		1.21	ND	4.02E+03	1.34
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	4.02E+03	1.32
PCB-67 23'45'-TeCB	NotFnd		0.8741	-		0.00E+00		1.29	ND	4.02E+03	1.25
PCB-63 234'5'-TeCB	NotFnd		0.8811	-		0.00E+00		1.36	ND	4.02E+03	1.19
PCB-61/70/74/76 ...-TeCB	28.77	J B C	0.8901	0.8903	+0.3	7.18E+05	0.80	1.22	23.4	4.02E+03	1.32
PCB-66 23'44'-TeCB	29.04	J	0.8988	0.8987	-0.2	2.61E+05	0.84	1.17	8.86	4.02E+03	1.38
PCB-55 233'4'-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	4.02E+03	1.4
PCB-56 233'4'-TeCB	29.62	J	0.9168	0.9168	0	1.31E+05	0.85	1.16	4.52	4.02E+03	1.39
PCB-60 2344'-TeCB	29.82	J	0.9228	0.9228	0	8.70E+04	0.68	1.17	2.97	4.02E+03	1.38
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	4.02E+03	1.17
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.32	ND	4.02E+03	1.23
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.02E+03	1.45
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.50E+03	0.604
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.17	ND	1.50E+03	0.742
PCB-103 22'45'6'-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	2.04E+03	1.03
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.80	ND	2.04E+03	1.23

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.00	B	0.9176	0.9176	0	3.03E+05	0.67	0.87	16	2.04E+03	1.13
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	2.04E+03	1.13
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		0.88	ND	2.04E+03	1.12
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	2.04E+03	1.15
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	2.04E+03	1.17
PCB-91 22'34'6-PeCB	28.76	J	0.9425	0.9426	+0.2	5.51E+04	0.57	0.86	2.95	2.04E+03	1.15
PCB-84 22'33'6-PeCB	28.95	J EMPC	0.9487	0.9487	0	8.50E+04	0.72	0.72	5.43	2.04E+03	1.37
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.78	ND	2.04E+03	1.26
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.04E+03	0.809
PCB-92 22'355'-PeCB	30.03	J	0.9841	0.9843	+0.4	6.15E+04	0.59	0.84	3.34	2.04E+03	1.17
PCB-113/90/101 ...-PeCB	30.54	J B C	0.9999	1.0007	+1.5	4.10E+05	0.61	0.97	19.3	2.04E+03	1.01
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.66	ND	2.04E+03	1.49
PCB-99 22'44'5-PeCB	31.05	J	1.0173	1.0174	+0.2	1.73E+05	0.66	0.98	8.09	2.04E+03	1
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	2.04E+03	0.852
PCB-108/119/86/97/125...-PeCB	31.52	J EMPC C	1.0320	1.0329	+1.7	2.72E+05	0.52	0.98	12.8	2.04E+03	1.01
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	2.04E+03	0.906
PCB-116/85 23456/22'344'-PeCB	32.10	J EMPC C	1.0525	1.0520	-1.0	5.57E+04	0.72	0.97	2.64	2.04E+03	1.02
PCB-110 233'4'6-PeCB	32.24	B	1.0563	1.0565	+0.4	4.88E+05	0.62	1.10	20.4	2.04E+03	0.897
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	2.04E+03	0.879
PCB-82 22'33'4-PeCB	NotFnd		1.0656	-		0.00E+00		0.69	ND	2.04E+03	1.42
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	2.04E+03	0.82
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	2.04E+03	0.807
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.10	ND	2.04E+03	0.897
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.22	ND	2.04E+03	0.807
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	2.04E+03	0.91
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	2.04E+03	0.939
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	2.04E+03	0.89
PCB-155 22'44'66'-HxCB	30.38	J	1.0007	1.0009	+0.4	3.91E+04	1.23	1.26	1.4	1.43E+03	0.494
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.43E+03	0.573
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.43E+03	0.556
PCB-136 22'33'66'-HxCB	30.98	J	1.0207	1.0209	+0.4	5.92E+04	1.35	1.02	2.61	1.43E+03	0.608
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.43E+03	0.6
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.43E+03	0.824
PCB-151/135 ...-HxCB	33.03	J C	1.0886	1.0885	-0.2	1.27E+05	1.27	1.06	7.43	1.43E+03	0.874
PCB-154 22'44'56'-HxCB	NotFnd		1.0955	-		0.00E+00		1.26	ND	1.43E+03	0.737
PCB-144 22'345'6-HxCB	NotFnd		1.1042	-		0.00E+00		1.10	ND	1.43E+03	0.839
PCB-147/149 ...-HxCB	33.81	J B C	1.1142	1.1141	-0.2	2.62E+05	1.36	1.10	14.7	1.43E+03	0.841
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.81	ND	1.43E+03	1.14
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.43E+03	0.846
PCB-139/140 ...-HxCB	NotFnd	C	1.1313	-		0.00E+00		1.11	ND	1.43E+03	0.834
PCB-131 22'33'46-HxCB	NotFnd		1.1370	-		0.00E+00		0.94	ND	1.43E+03	0.981
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.43E+03	1
PCB-132 22'33'46'-HxCB	34.88	J	1.1495	1.1494	-0.2	8.11E+04	1.14	0.97	5.17	1.43E+03	0.953
PCB-133 22'33'55'-HxCB	NotFnd		1.1628	-		0.00E+00		1.04	ND	1.43E+03	0.892
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.43E+03	0.701
PCB-146 22'34'55'-HxCB	35.84	J	0.9582	0.9582	0	5.66E+04	1.16	1.16	3.02	1.43E+03	0.799
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.43E+03	0.651
PCB-153/168 ...-HxCB	36.37	J B C	0.9728	0.9722	-1.3	3.65E+05	1.22	1.38	16.3	1.43E+03	0.669

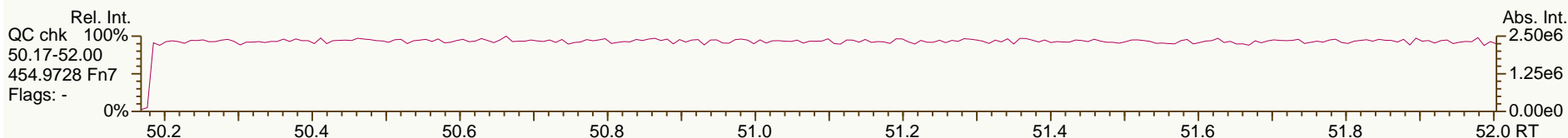
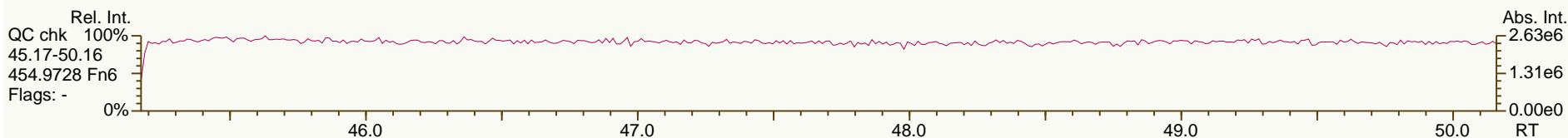
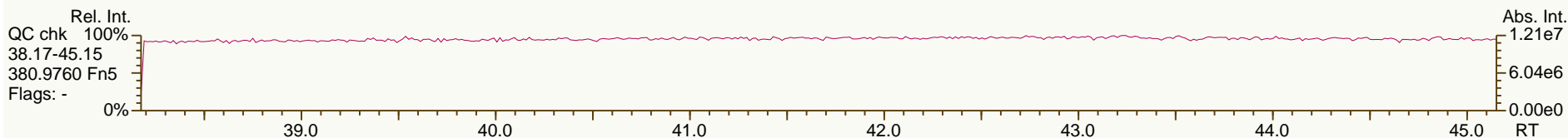
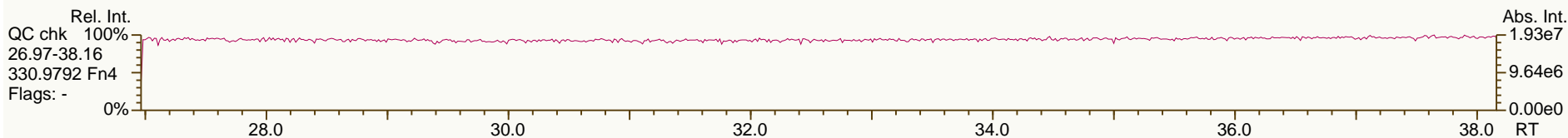
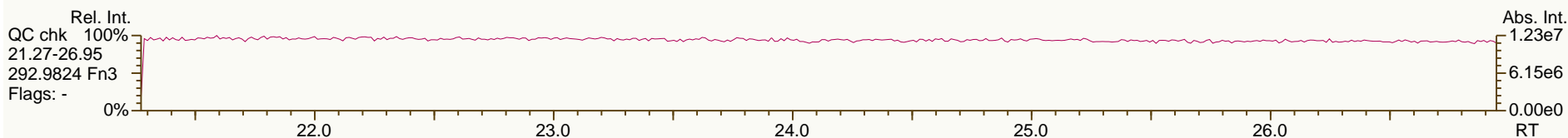
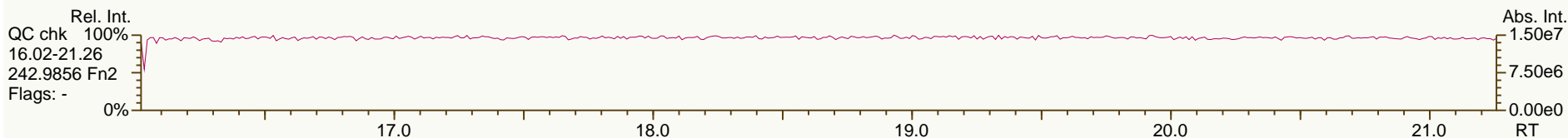
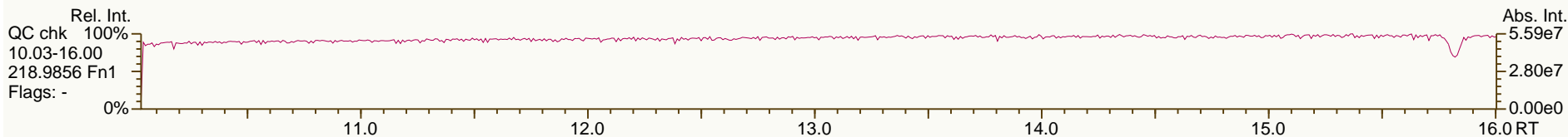


Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.53	J	0.9767	0.9766	-0.2	5.32E+04	1.16	1.01	3.27	1.43E+03	0.919
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.91	ND	1.43E+03	1.02
PCB-137 22'344'5-HxCB	NotFnd		0.9912	-		0.00E+00		1.15	ND	1.43E+03	0.806
PCB-164 233'4'5'6-HxCB	NotFnd		0.9934	-		0.00E+00		1.37	ND	1.43E+03	0.675
PCB-163/138/129 ...-HxCB	37.43	J B C	1.0011	1.0007	-0.9	3.07E+05	1.30	1.12	16.9	1.43E+03	0.823
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.43E+03	0.731
PCB-158 233'44'6-HxCB	37.76	J EMPC	1.0096	1.0094	-0.5	4.12E+04	1.45	1.49	1.71	1.43E+03	0.622
PCB-128/166 ...-HxCB	38.52	J C	0.9640	0.9645	+1.2	5.06E+04	1.37	0.89	2.84	1.28E+03	0.718
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.28E+03	0.592
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.28E+03	0.594
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.17E+03	0.581
PCB-179 22'33'566'-HpCB	35.53	J	1.0086	1.0086	0	5.11E+04	0.94	1.09	2.93	1.17E+03	0.679
PCB-184 22'344'66'-HpCB	35.99	J	1.0216	1.0218	+0.4	5.01E+04	1.05	1.04	2.99	1.17E+03	0.707
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.15	ND	1.17E+03	0.639
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.17E+03	0.682
PCB-178 22'33'55'6-HpCB	NotFnd		1.0733	-		0.00E+00		0.75	ND	1.17E+03	0.977
PCB-175 22'33'45'6-HpCB	NotFnd		1.0888	-		0.00E+00		1.09	ND	1.29E+03	0.836
PCB-187 22'34'55'6-HpCB	38.58	J	1.0953	1.0953	0	1.14E+05	1.09	1.17	6.65	1.29E+03	0.783
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.29E+03	0.764
PCB-183 22'344'5'6-HpCB	39.10	J	1.1101	1.1101	0	4.83E+04	0.95	1.23	2.69	1.29E+03	0.744
PCB-185 22'3455'6-HpCB	NotFnd		1.1125	-		0.00E+00		1.05	ND	1.29E+03	0.869
PCB-174 22'33'456'-HpCB	39.30	J	1.1156	1.1157	+0.2	5.30E+04	1.02	1.01	3.59	1.29E+03	0.907
PCB-177 22'33'45'6'-HpCB	39.67	J EMPC	1.1263	1.1263	0	3.02E+04	0.85	0.96	2.15	1.29E+03	0.954
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.29E+03	0.846
PCB-171/173 ...-HpCB	NotFnd	C	1.1414	-		0.00E+00		0.95	ND	1.29E+03	0.967
PCB-172 22'33'455'-HpCB	NotFnd		0.9079	-		0.00E+00		0.99	ND	1.29E+03	0.924
PCB-192 233'455'6-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.29E+03	0.711
PCB-180/193 ...-HpCB	42.10	J C	0.9193	0.9200	+1.8	1.77E+05	0.93	1.23	9.83	1.29E+03	0.742
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.29E+03	0.677
PCB-170 22'33'44'5-HpCB	43.18	J	0.9434	0.9434	0	4.91E+04	1.12	1.12	3.74	1.29E+03	0.982
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.54	ND	1.29E+03	0.71
PCB-202 22'33'55'66'-OoCB	39.78	J EMPC	1.0005	1.0006	+0.2	2.05E+04	1.28	1.05	1.25	1.19E+03	0.755
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.19E+03	0.712
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.19E+03	0.766
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.19E+03	0.73
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.19E+03	0.733
PCB-198/199 ...-OoCB	43.77	J C	1.1002	1.1009	+1.8	4.70E+04	0.94	0.72	4.21	1.19E+03	1.1
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1147	-		0.00E+00		0.76	ND	1.19E+03	1.04
PCB-203 22'344'55'6-OoCB	44.48	J	1.1189	1.1189	0	2.65E+04	0.84	0.78	2.2	1.19E+03	1.02
PCB-195 22'33'44'56-OoCB	NotFnd		0.9516	-		0.00E+00		0.75	ND	1.26E+03	1.52
PCB-194 22'33'44'55'-OoCB	47.55	J	0.9921	0.9921	0	1.93E+04	0.85	0.81	1.98	1.26E+03	1.41
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.26E+03	1.08
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.01E+03	1.99
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.14	ND	3.01E+03	1.96
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.01E+03	3.37

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 Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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SGS-AP ID: A6504\_11892\_PCB\_007  
Instr: AutoSpec-Premier MM7

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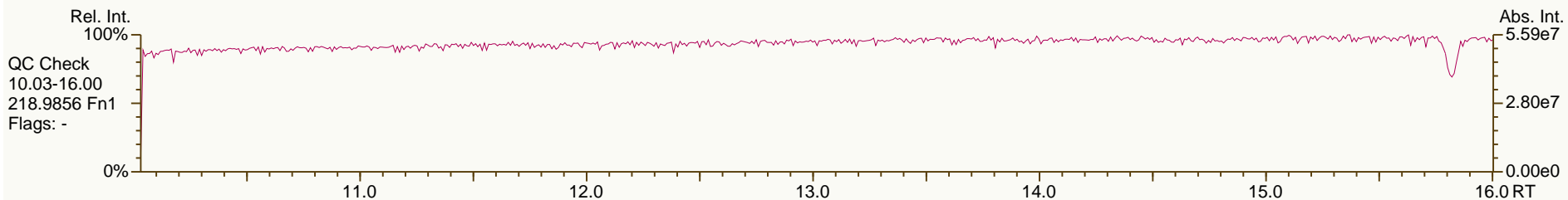
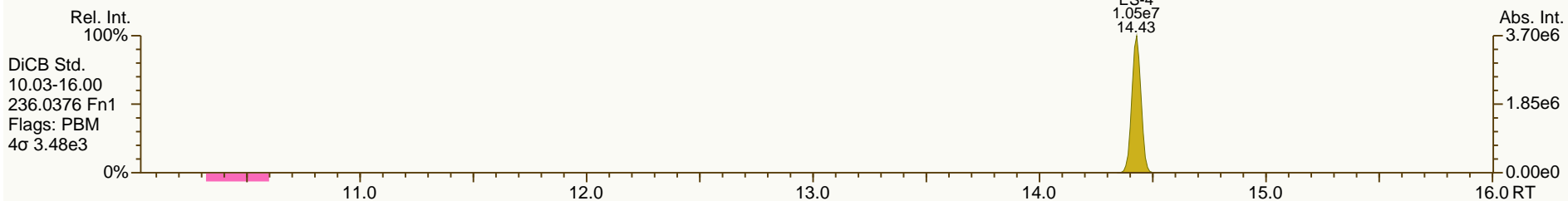
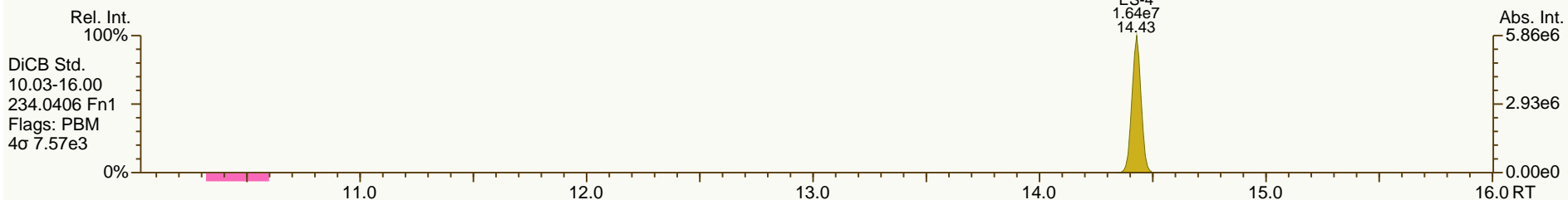
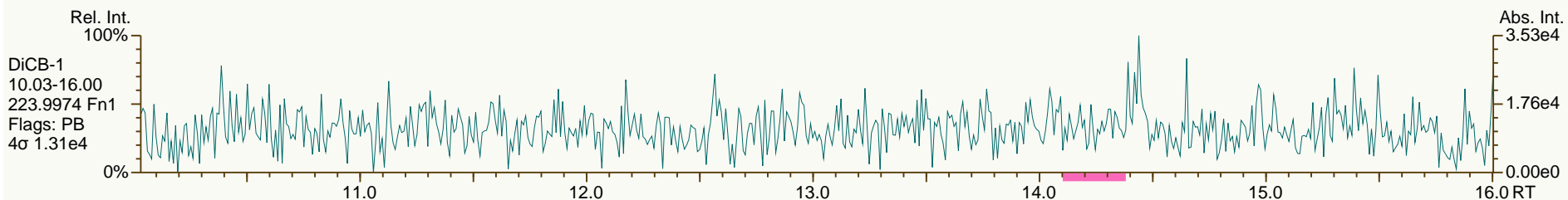
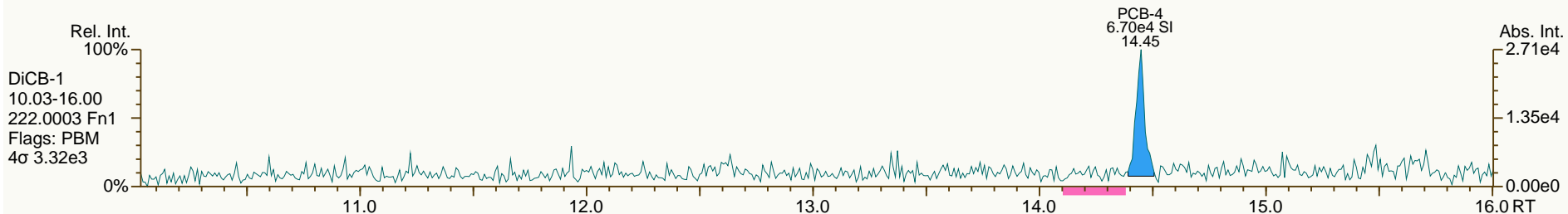
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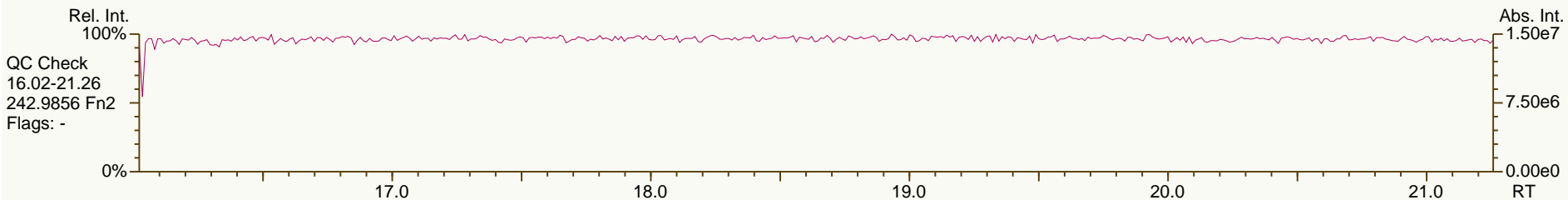
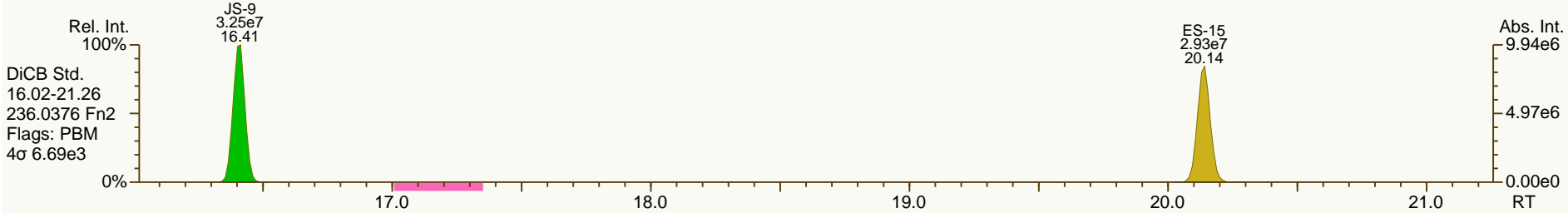
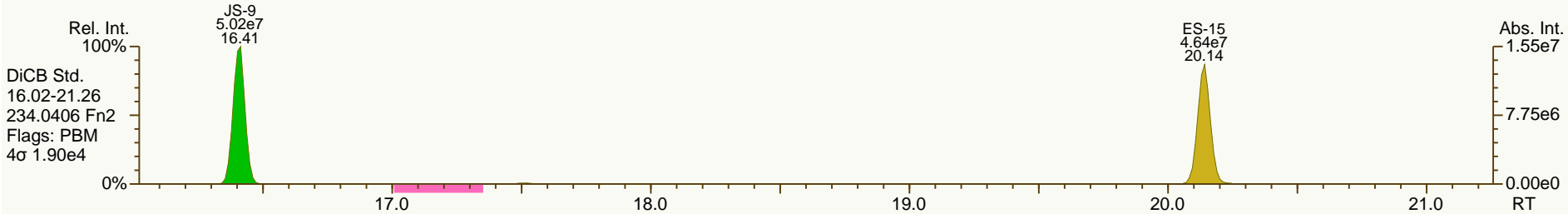
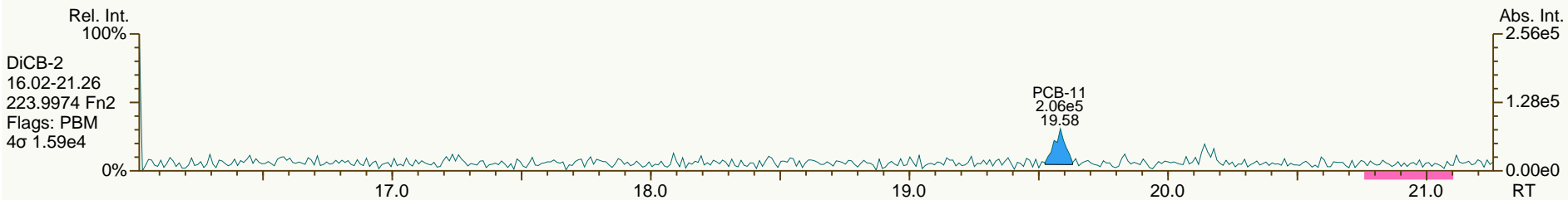
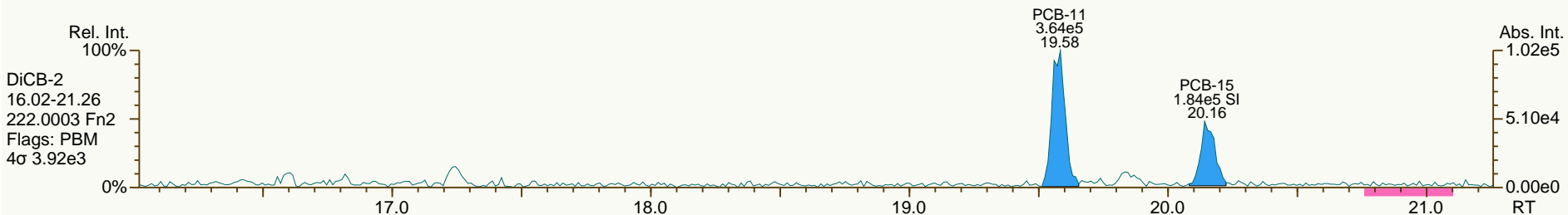
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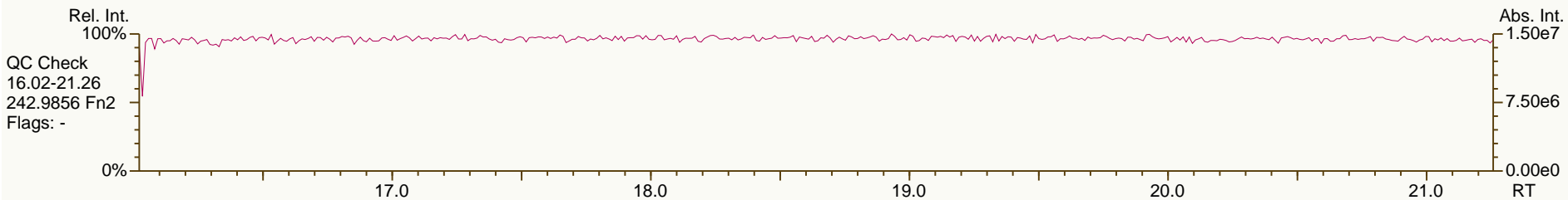
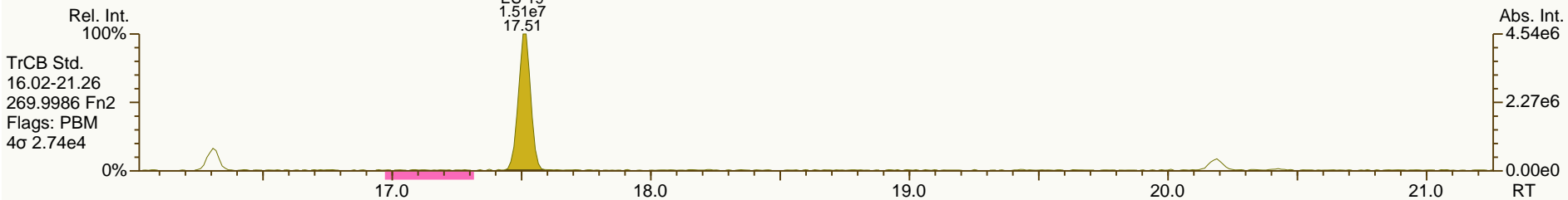
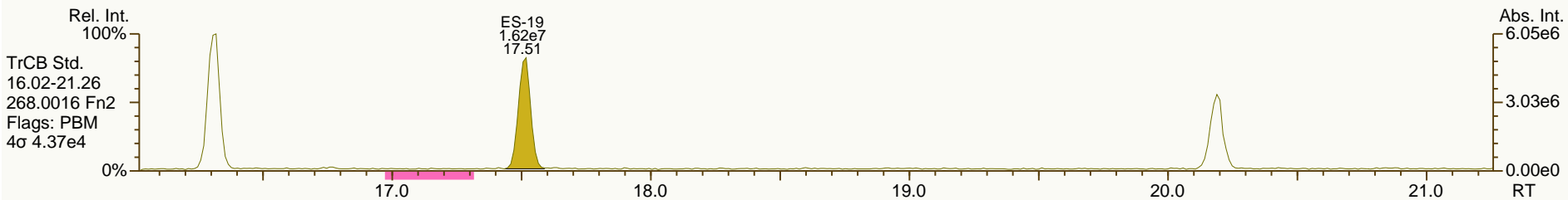
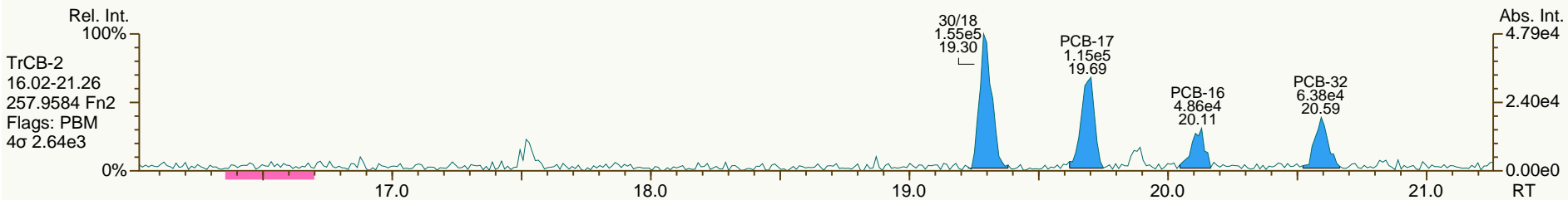
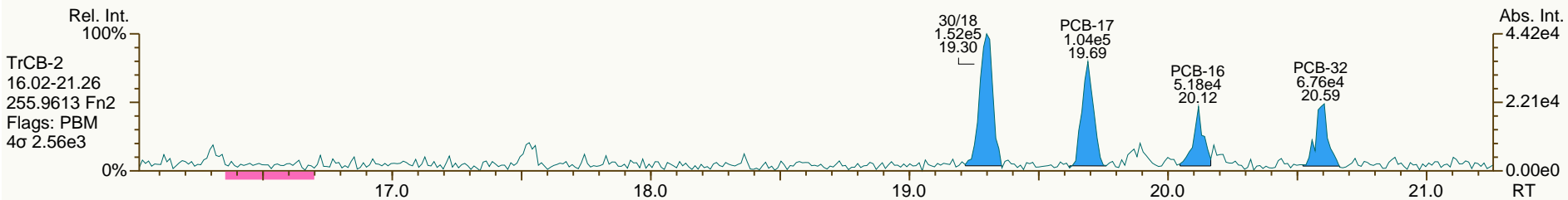
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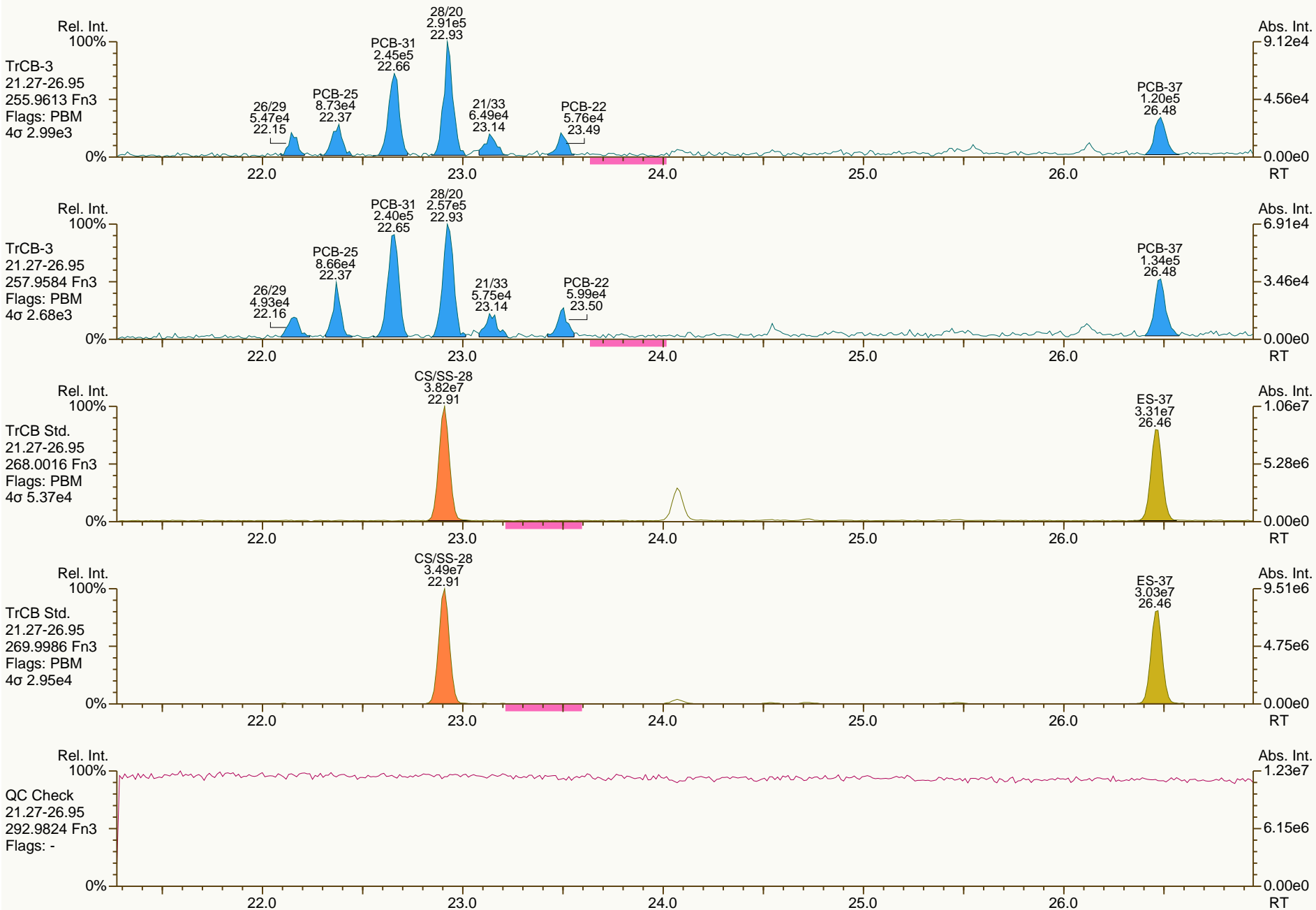
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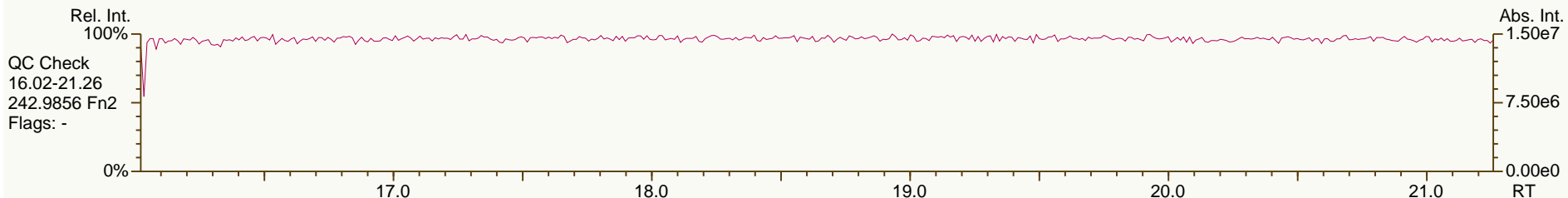
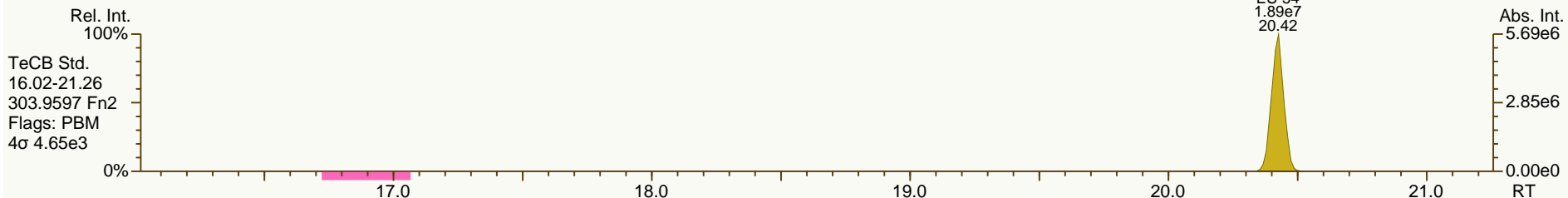
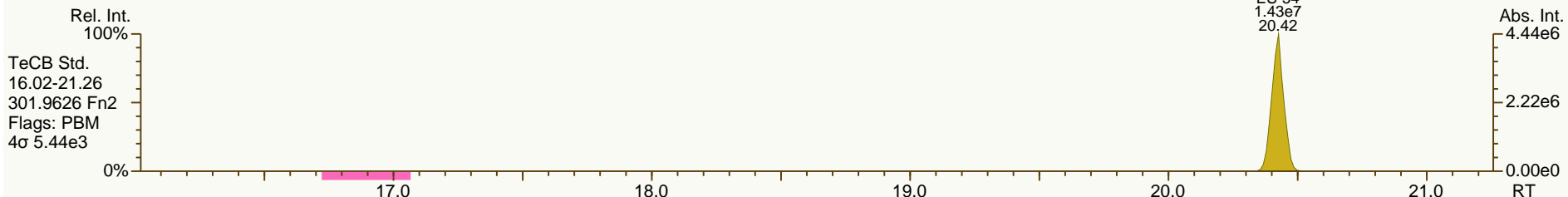
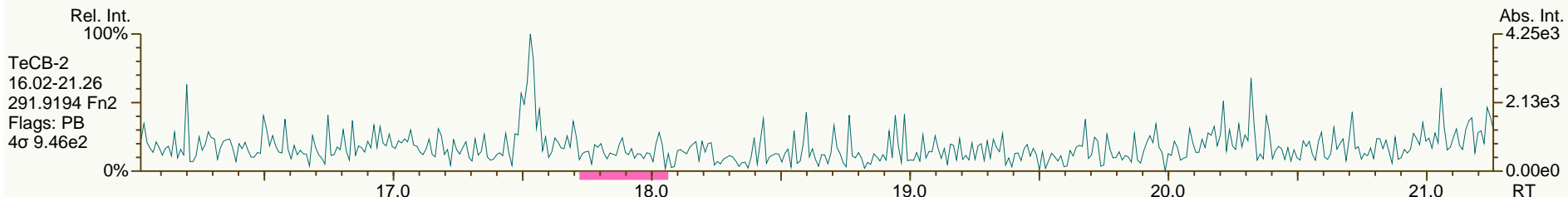
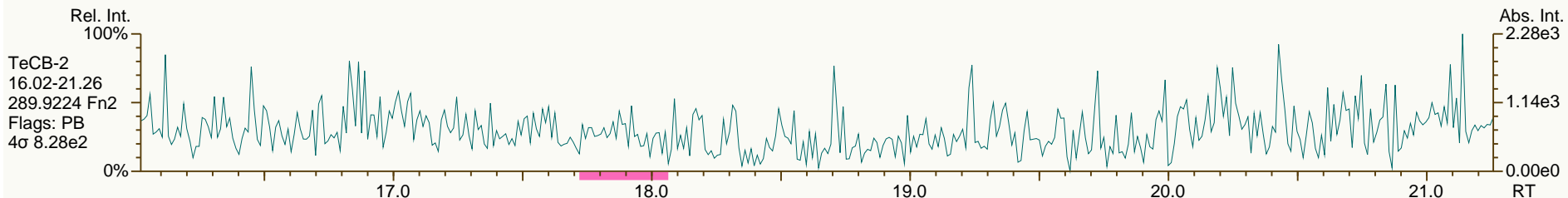
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Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
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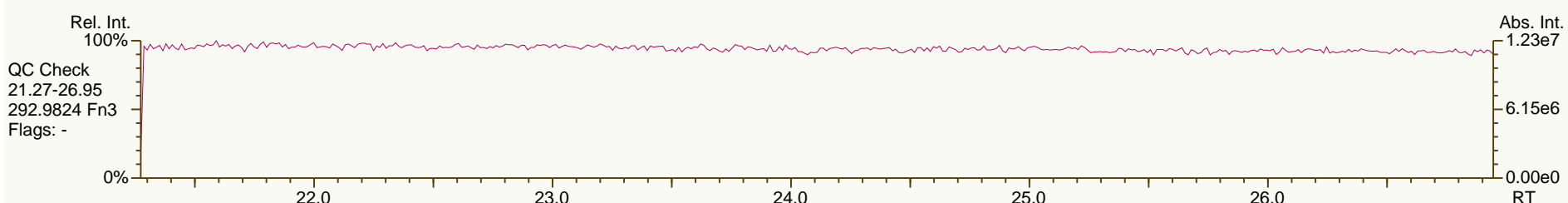
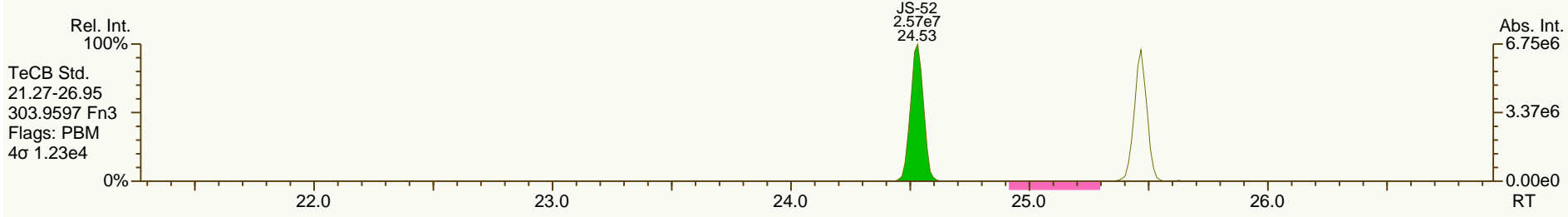
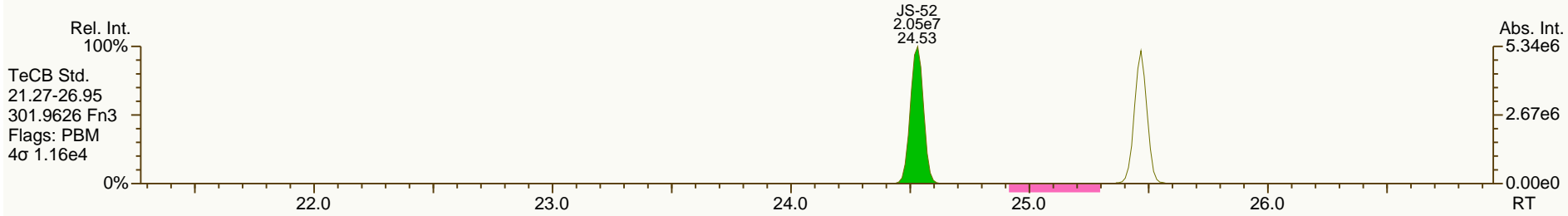
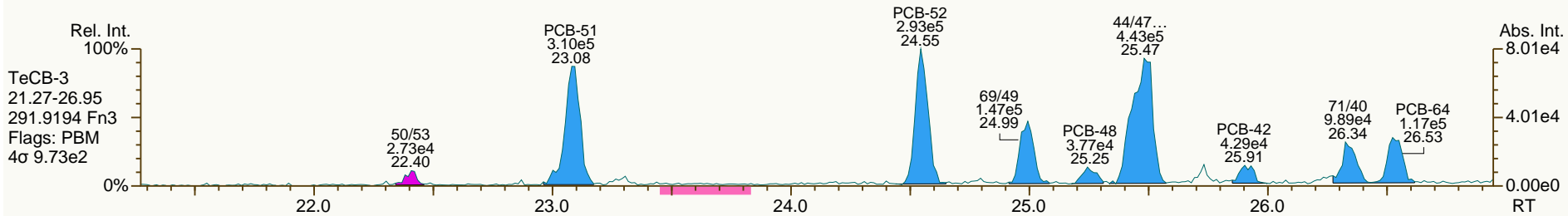
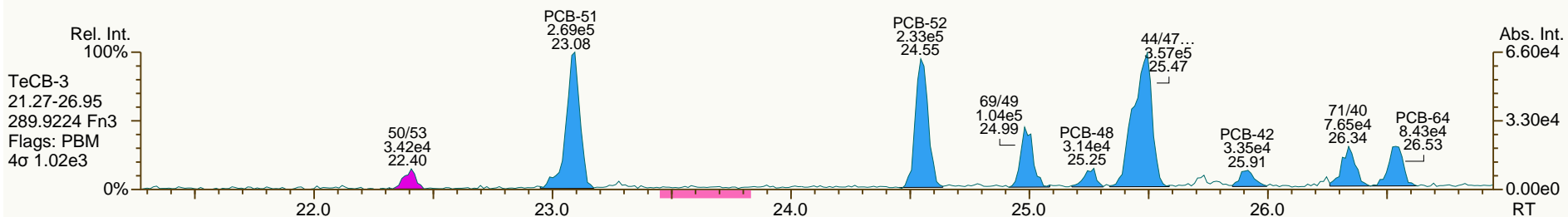




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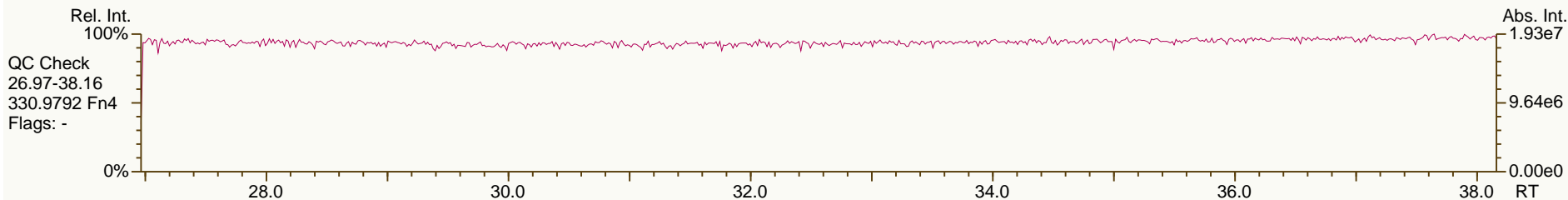
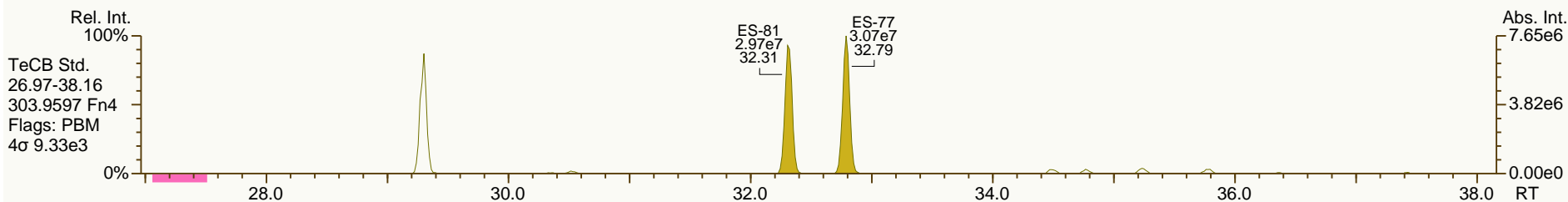
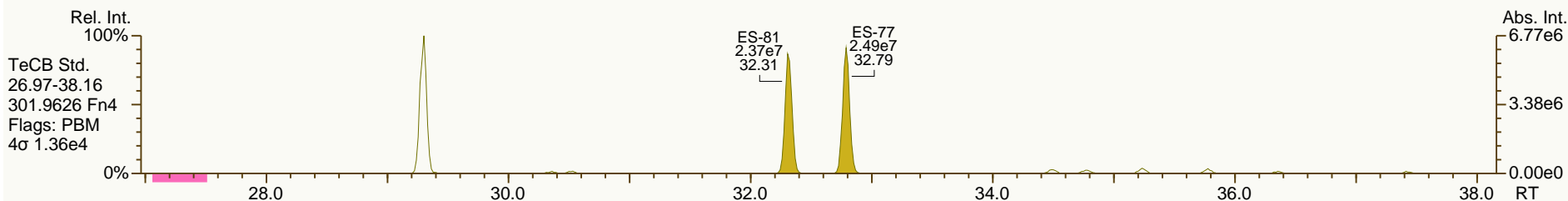
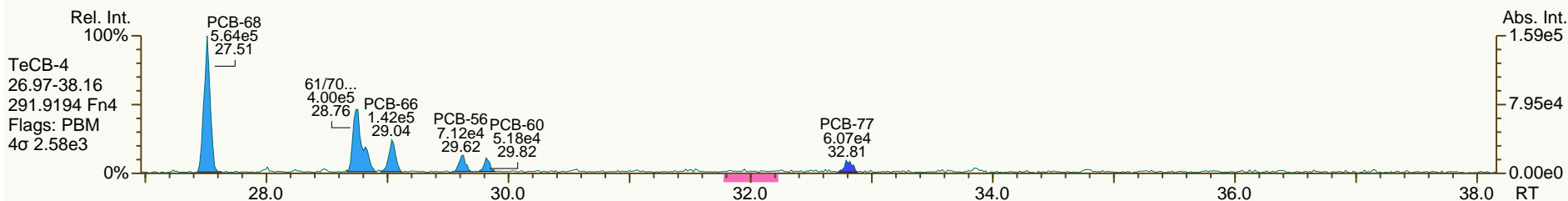
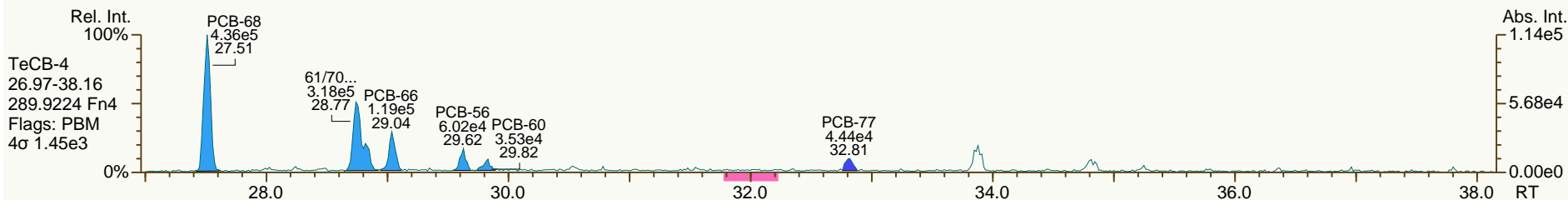
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SGS-AP ID: A6504\_11892\_PCB\_007  
Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

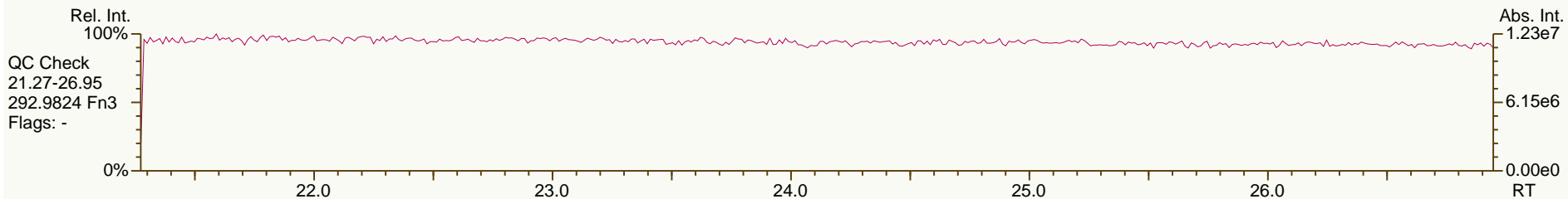
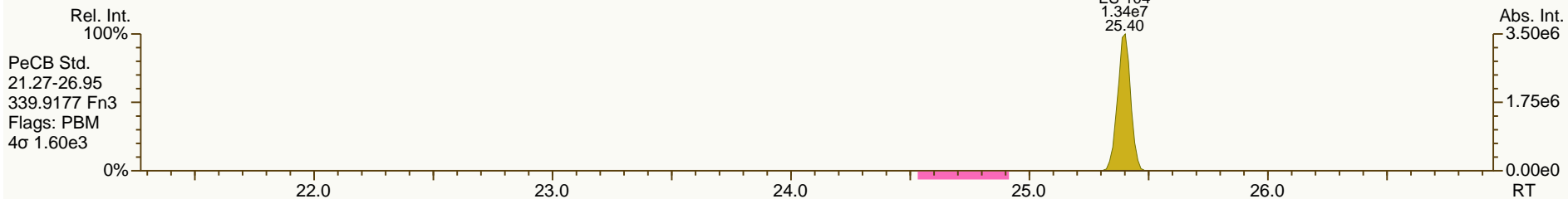
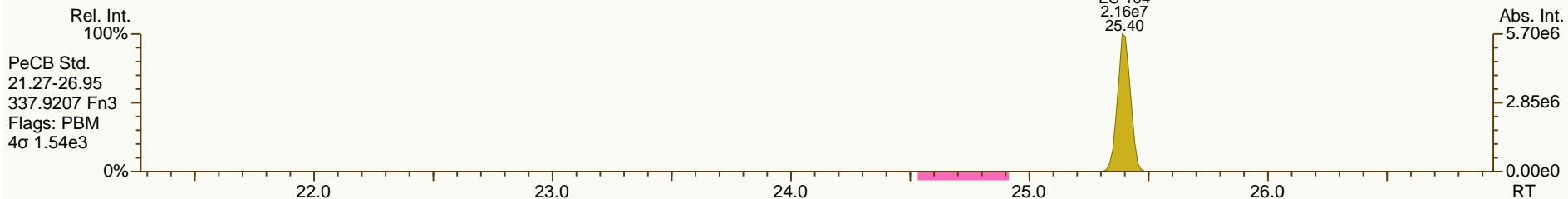
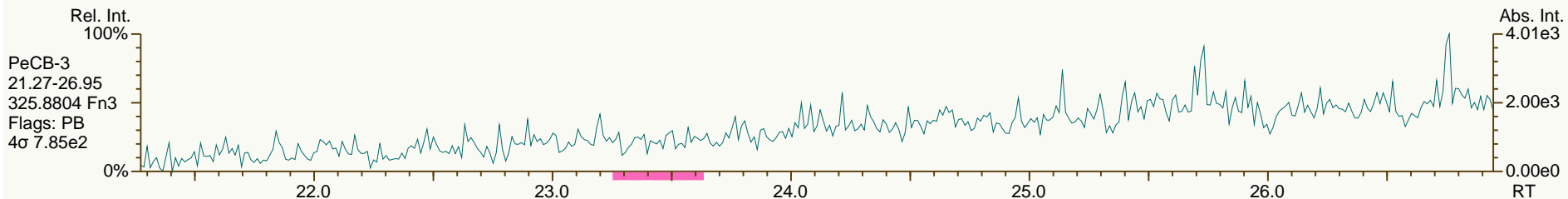
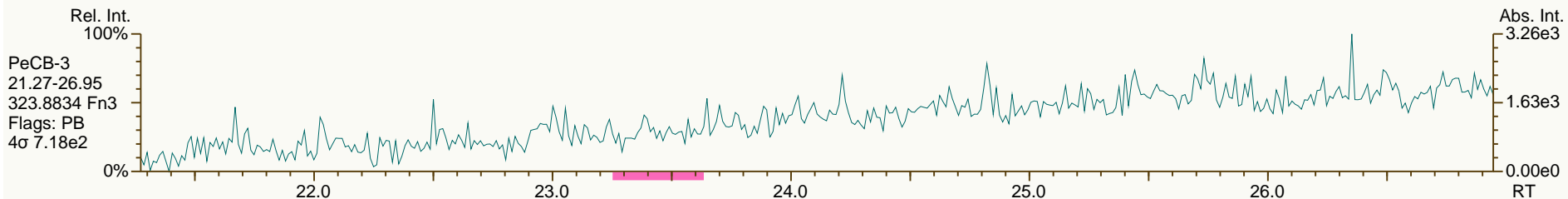
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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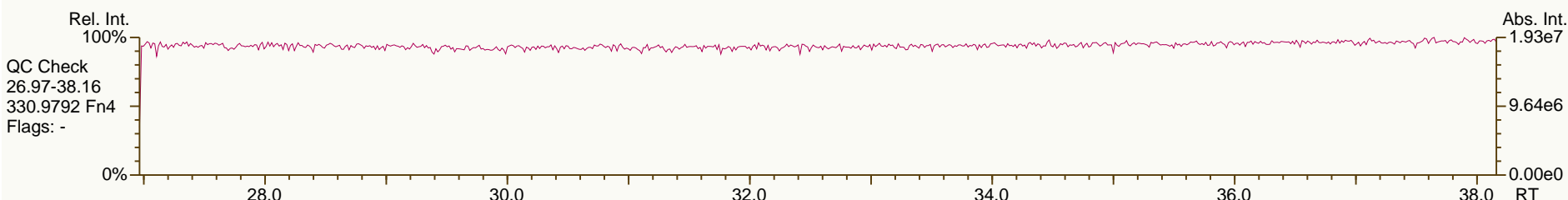
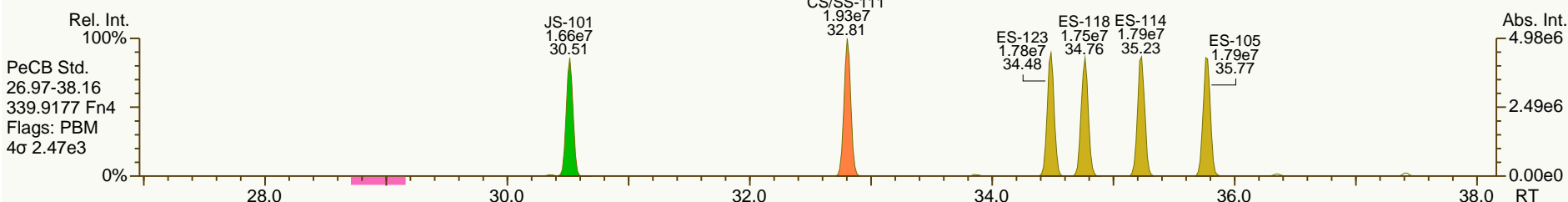
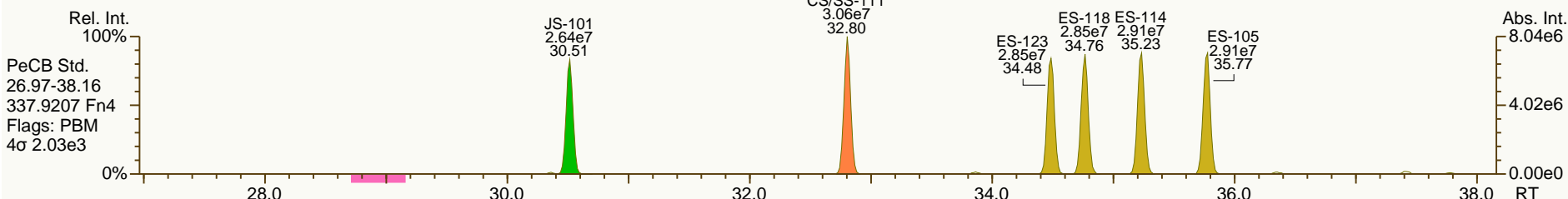
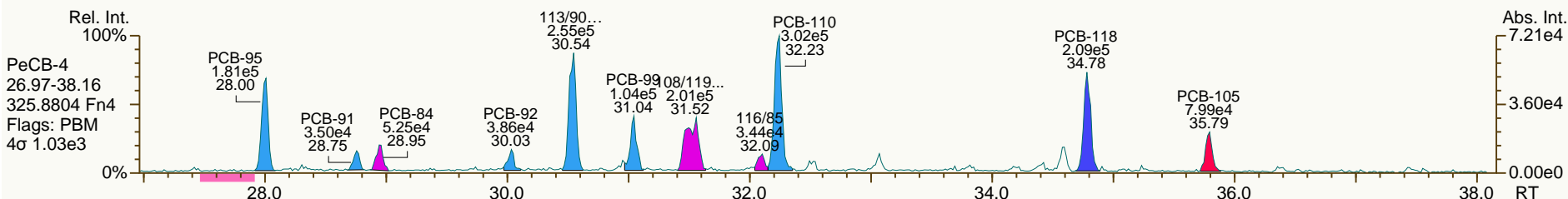
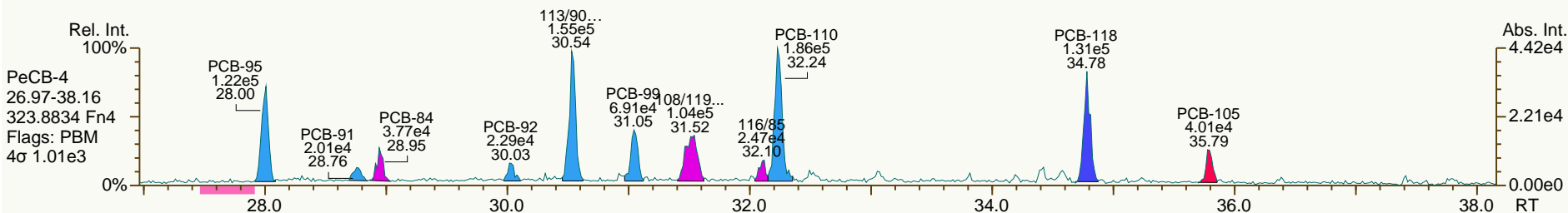
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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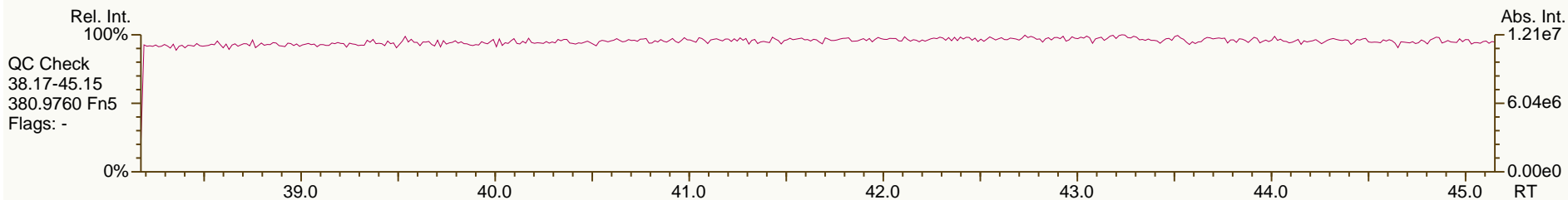
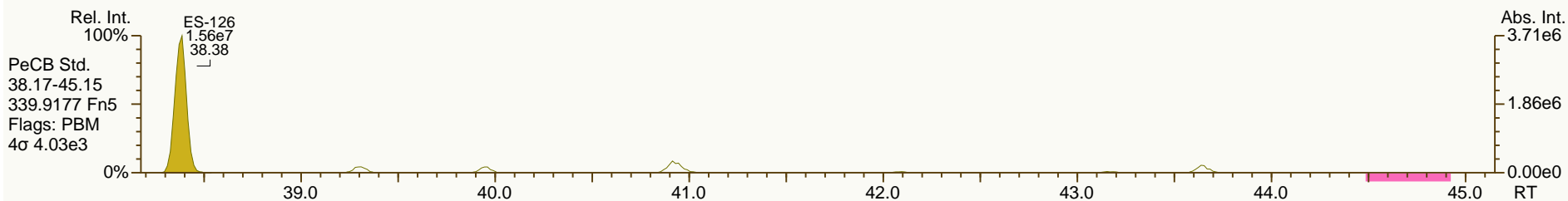
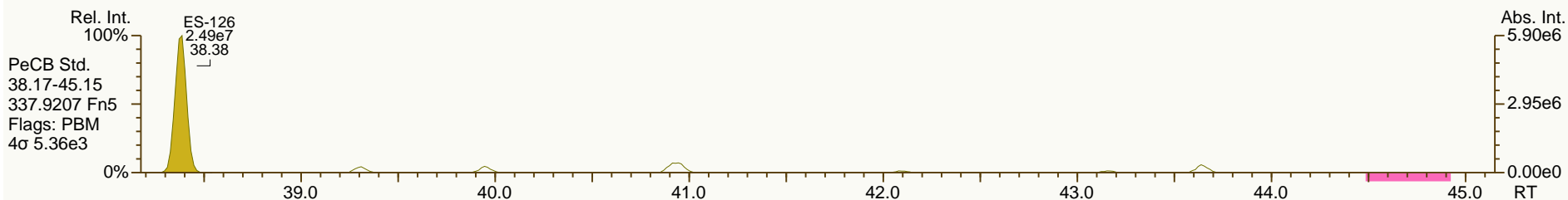
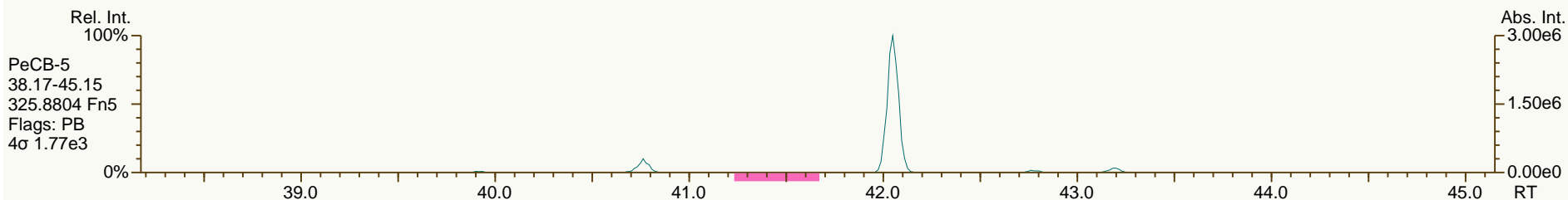
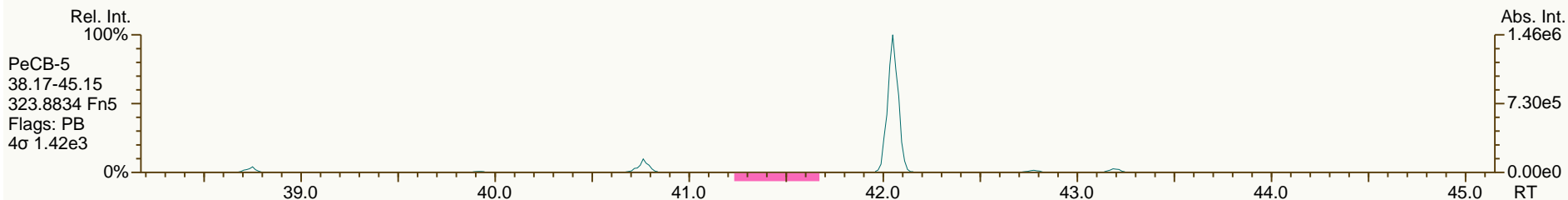
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SGS-AP ID: A6504\_11892\_PCB\_007  
Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

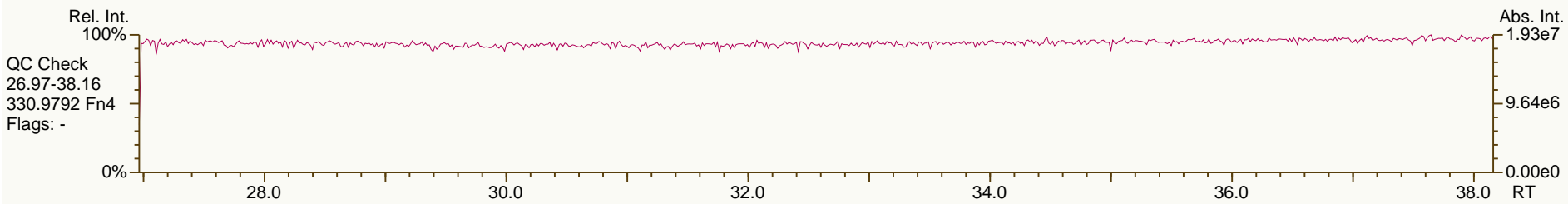
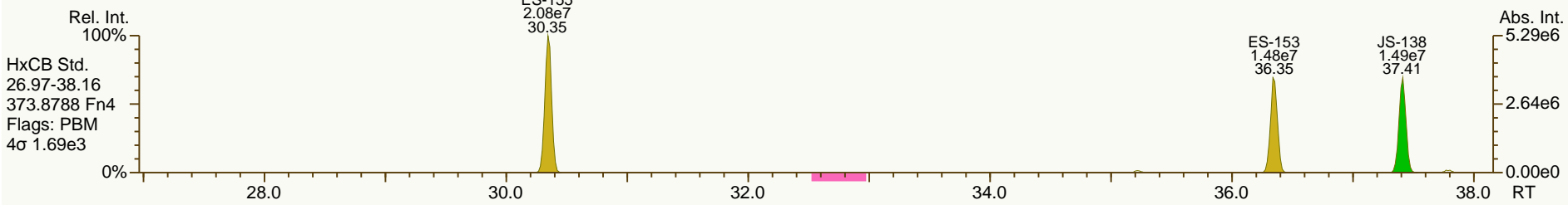
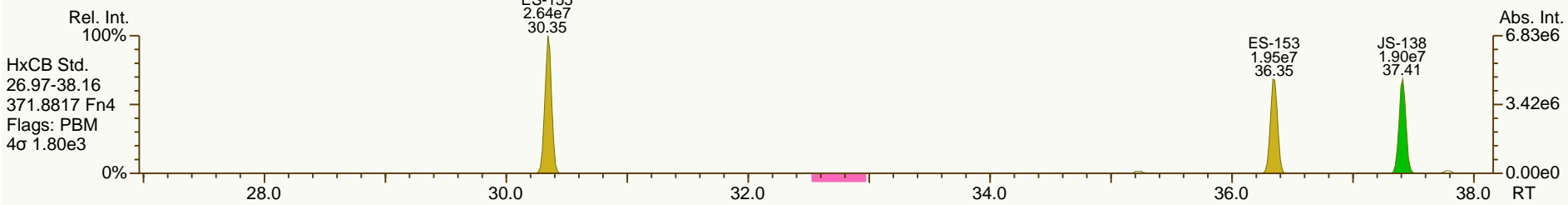
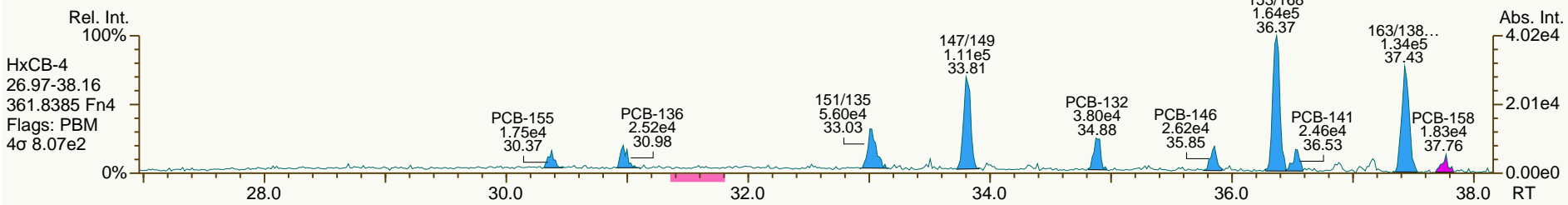
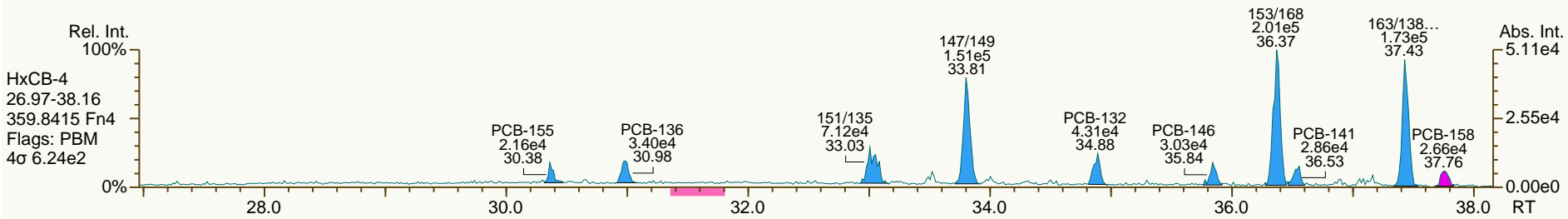
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
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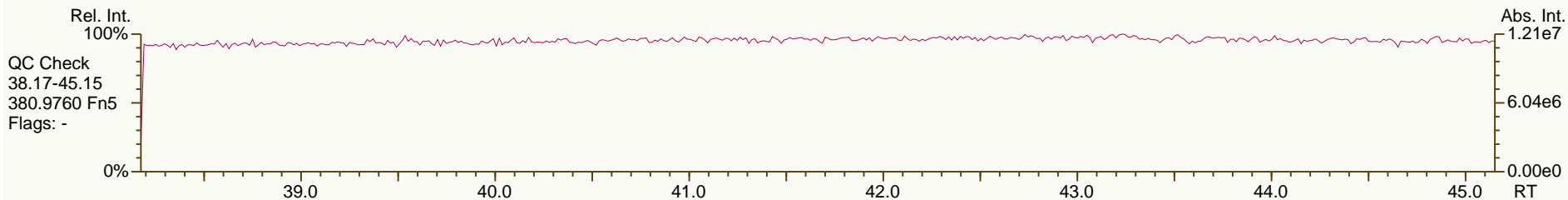
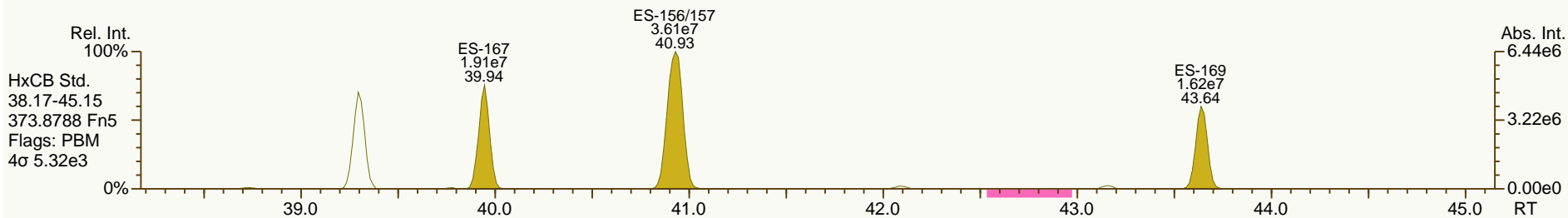
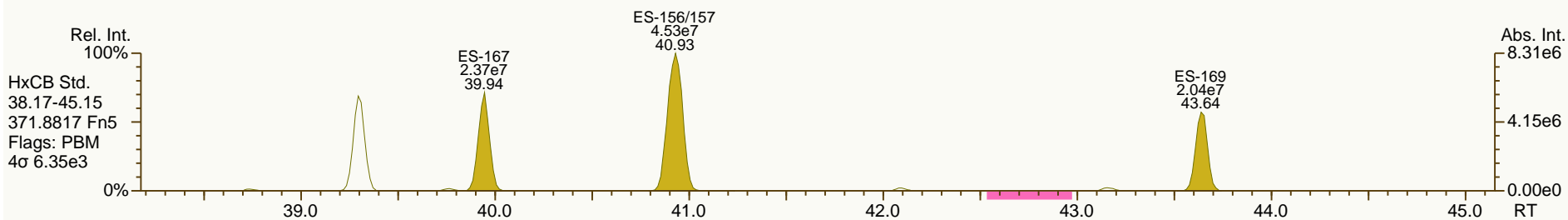
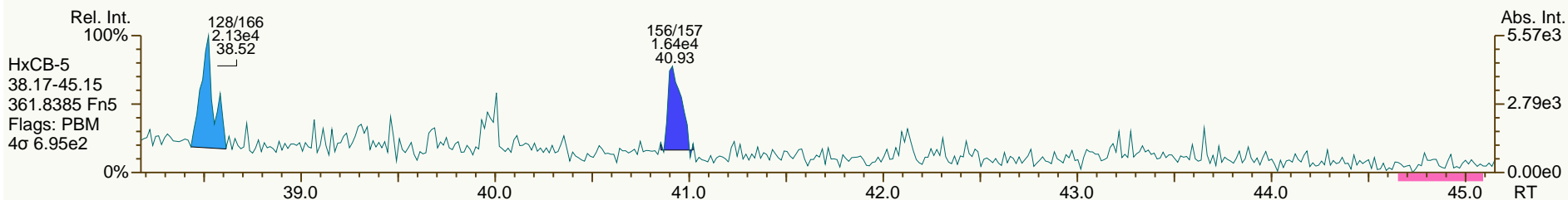
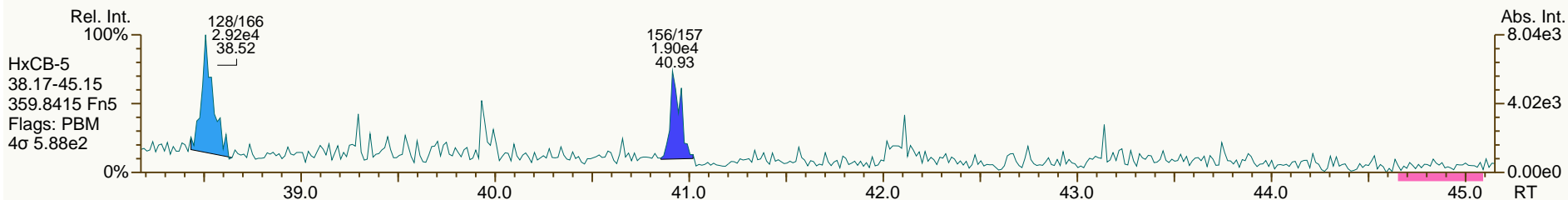
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SGS-AP ID: A6504\_11892\_PCB\_007  
Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

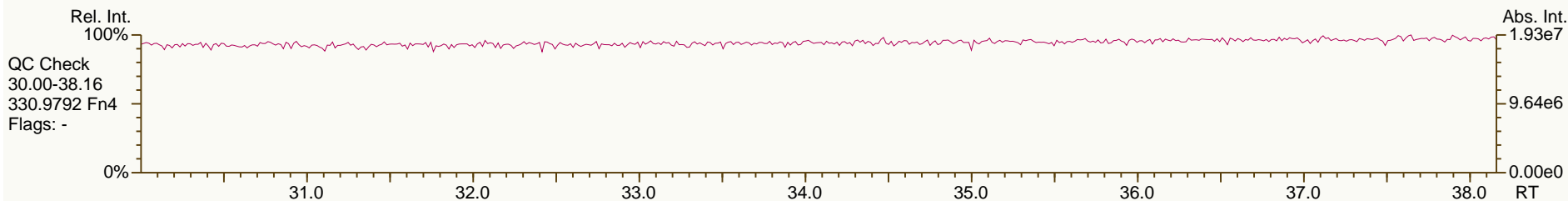
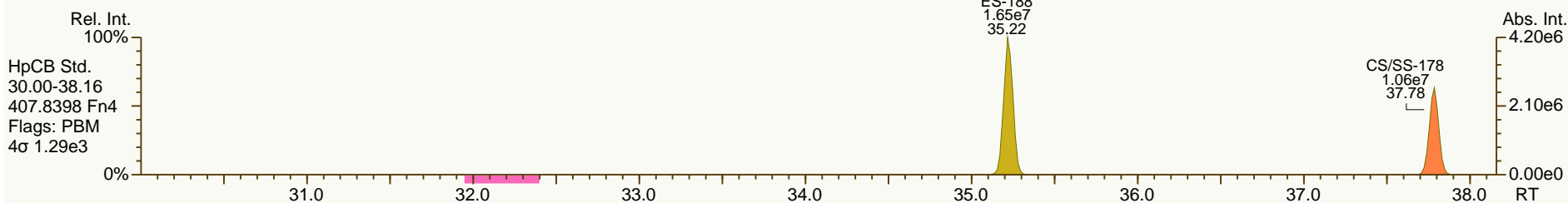
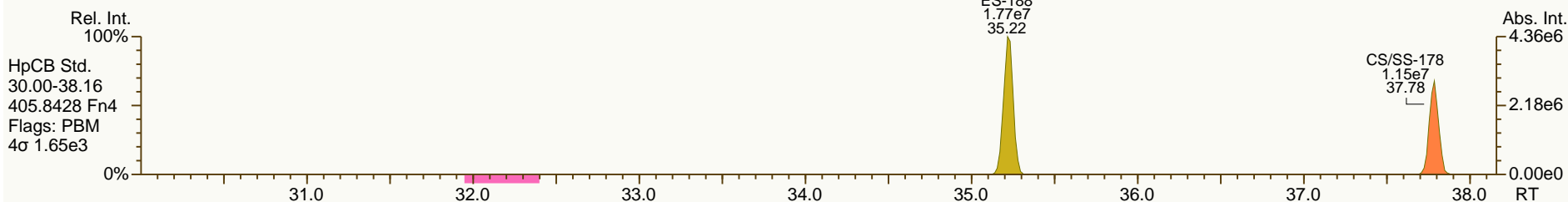
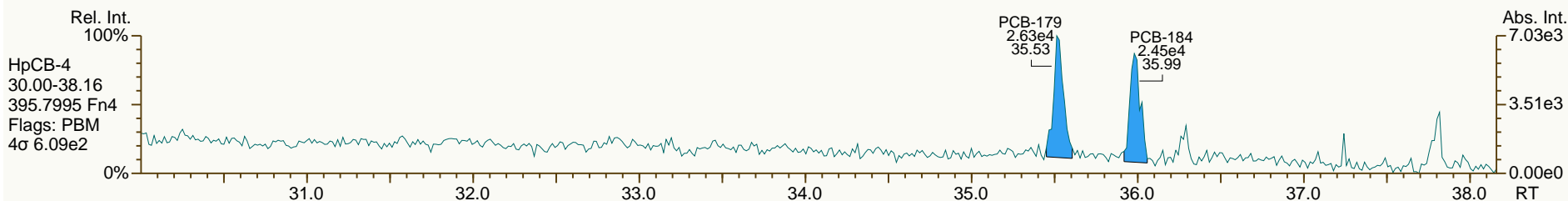
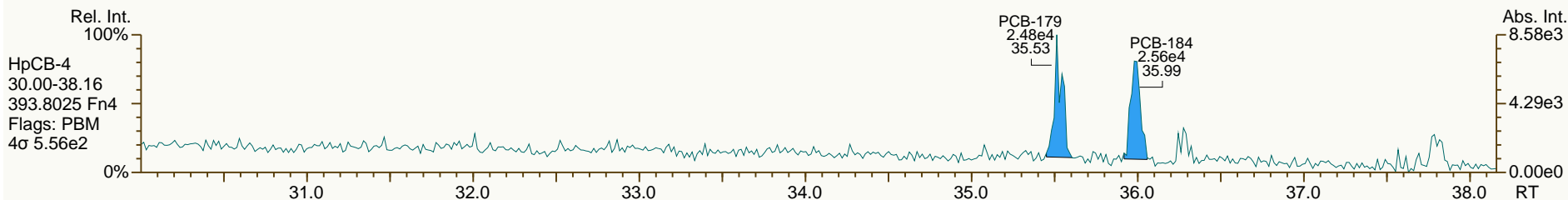
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SGS-AP ID: A6504\_11892\_PCB\_007  
Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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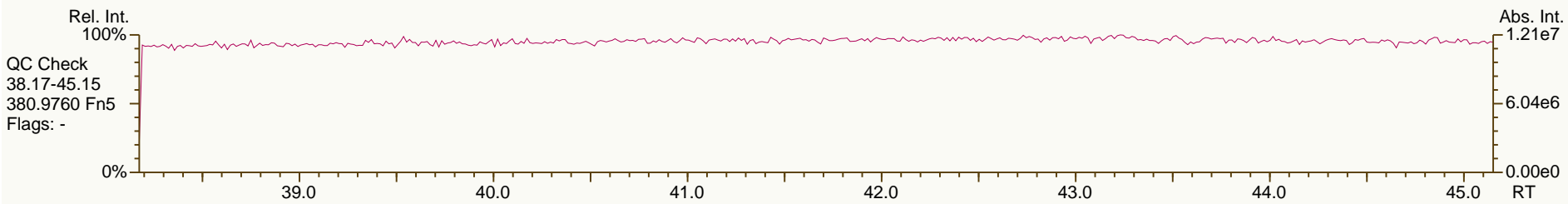
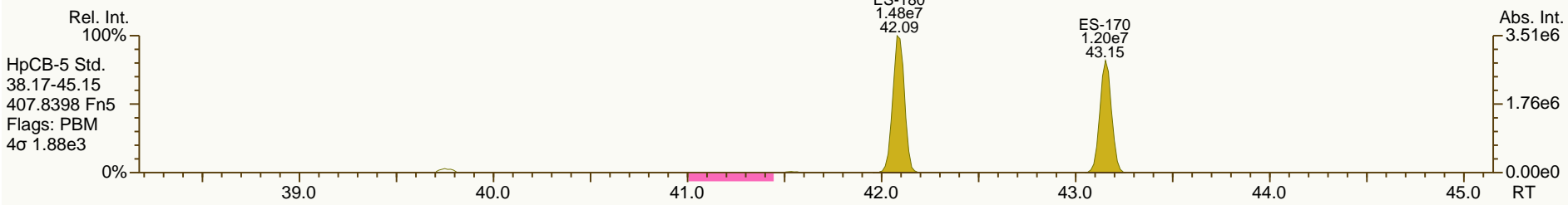
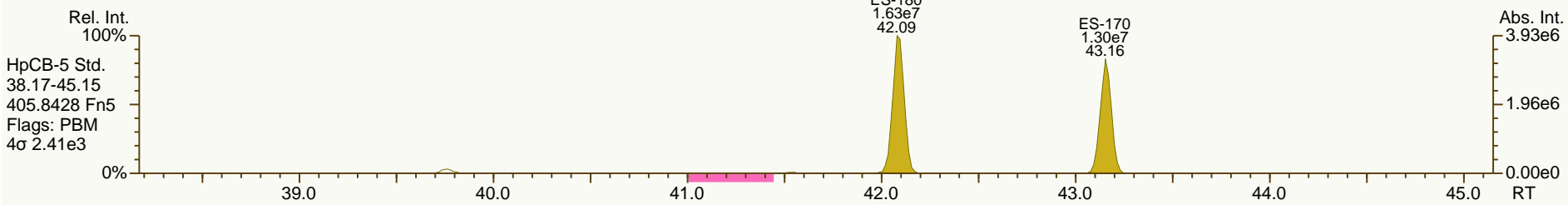
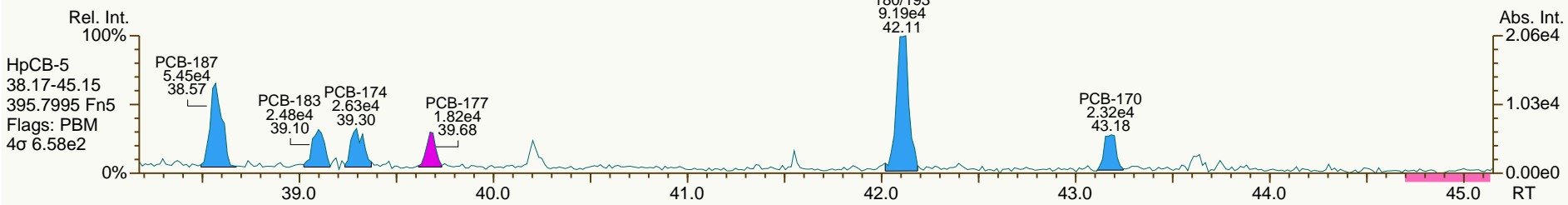
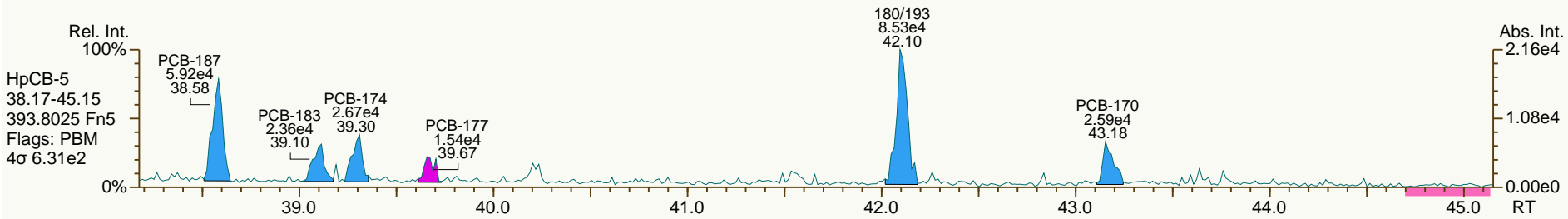




SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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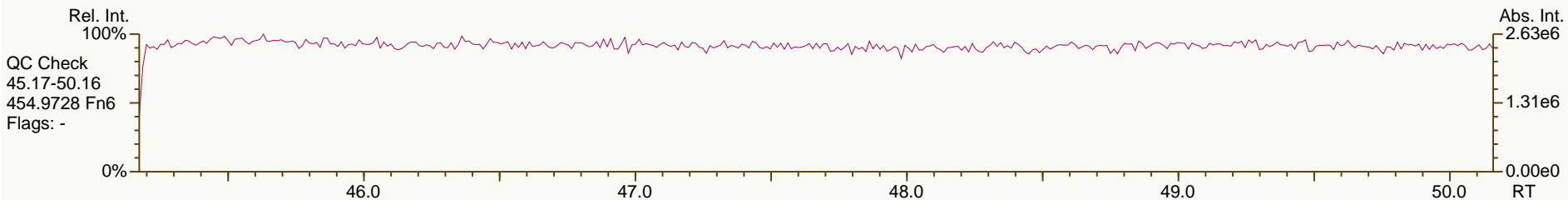
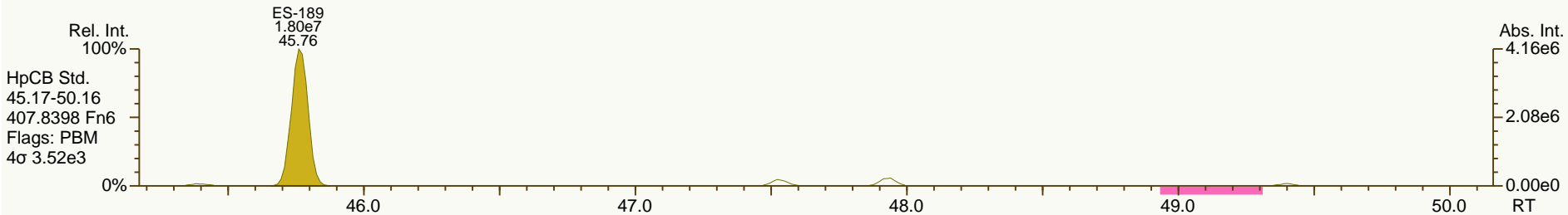
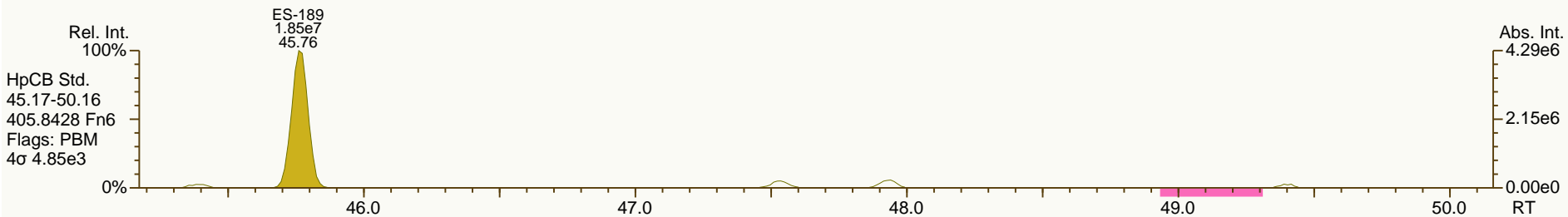
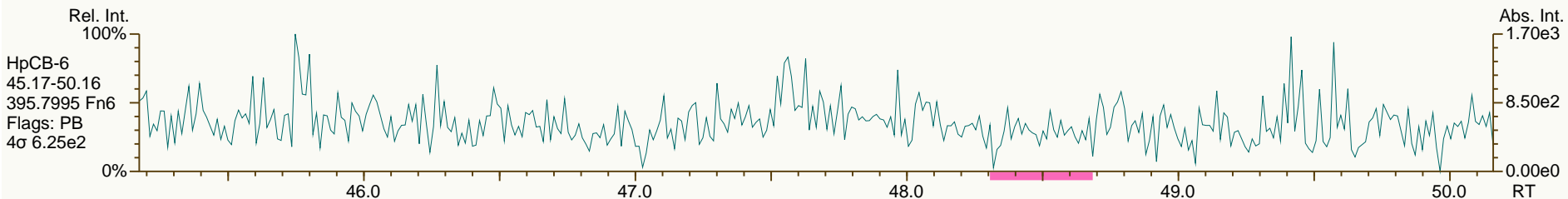
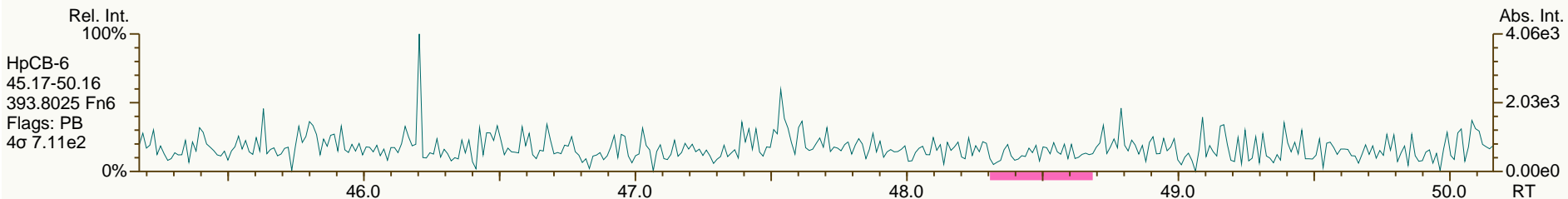
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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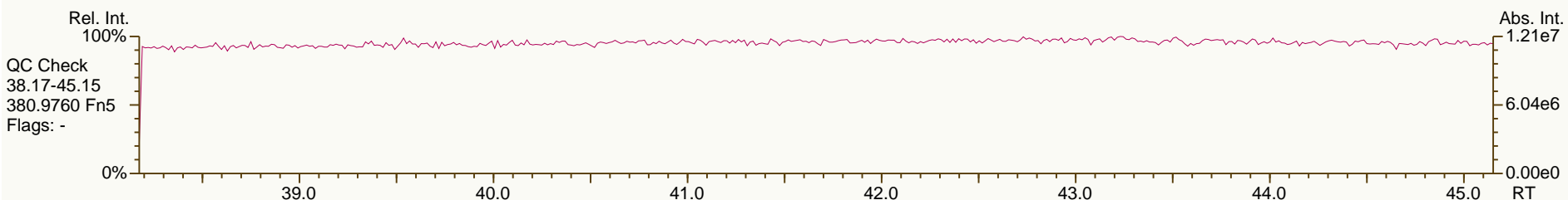
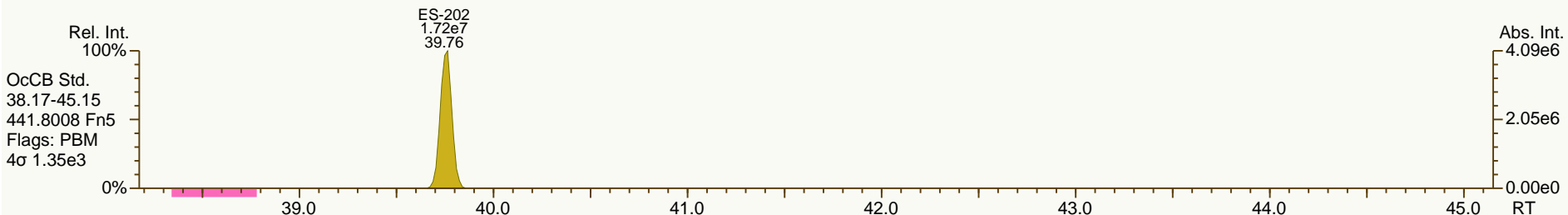
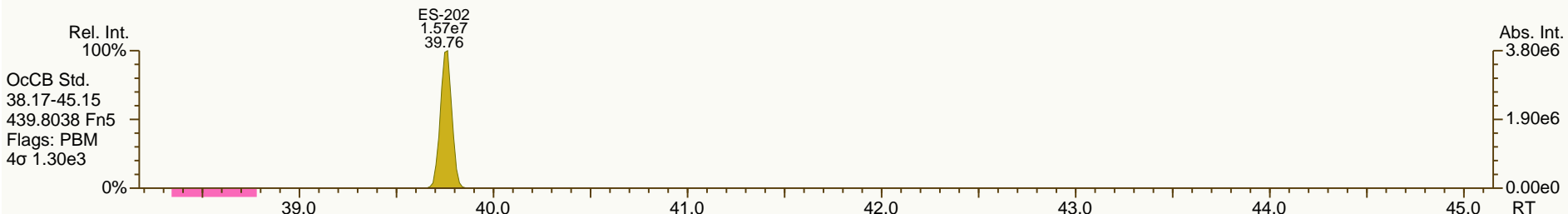
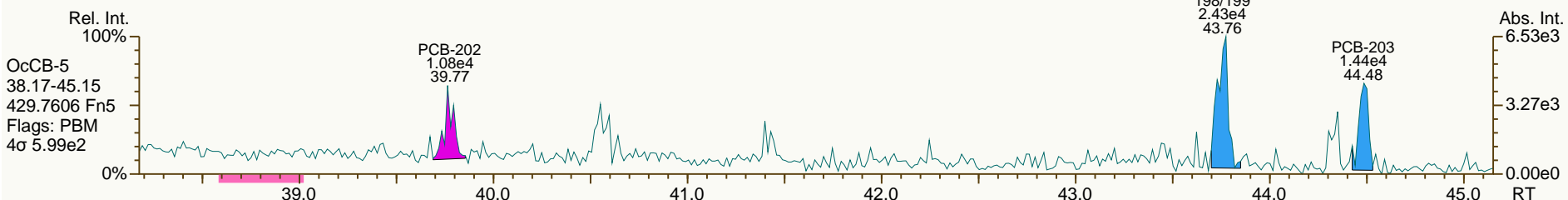
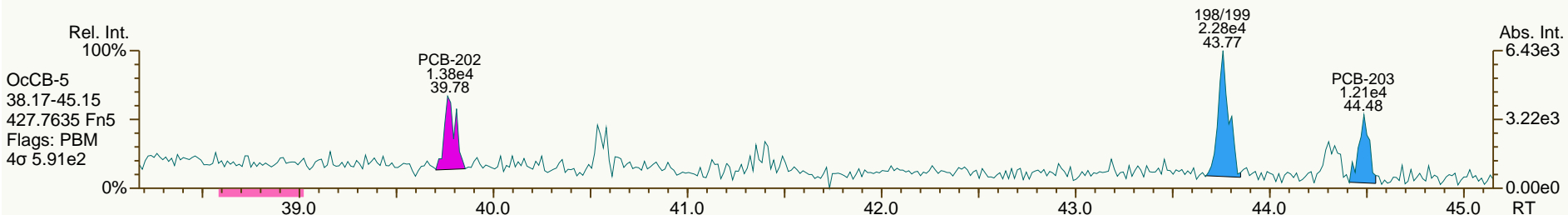
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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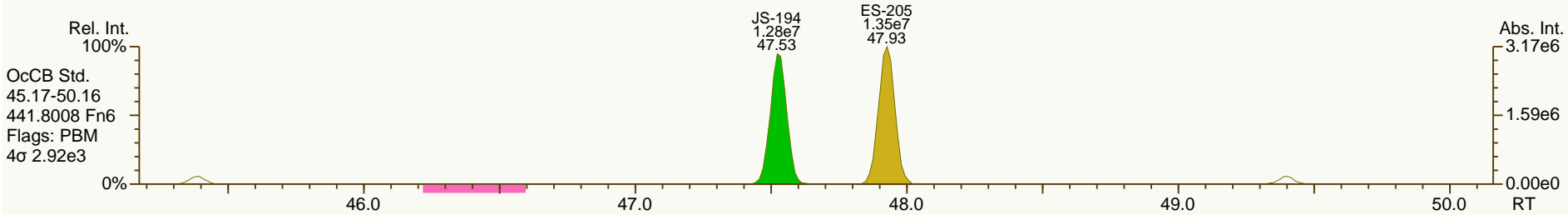
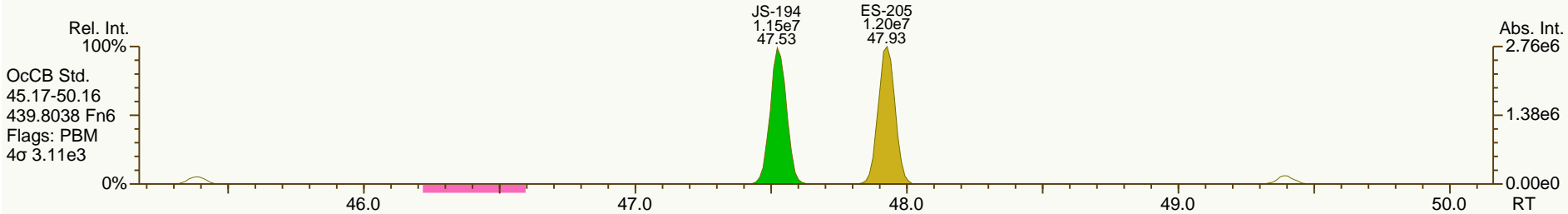
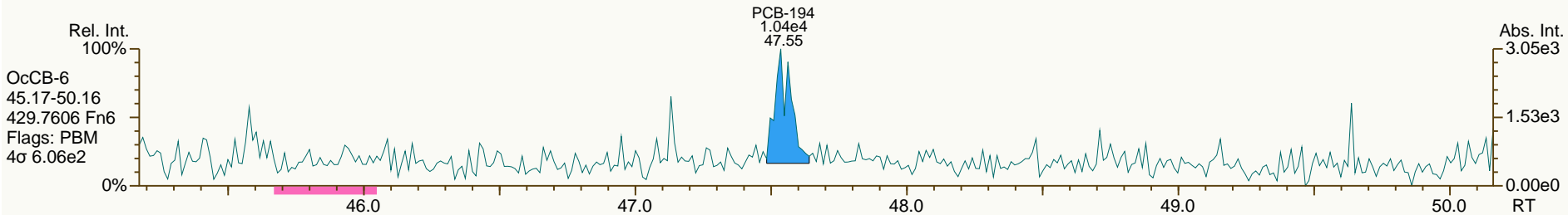
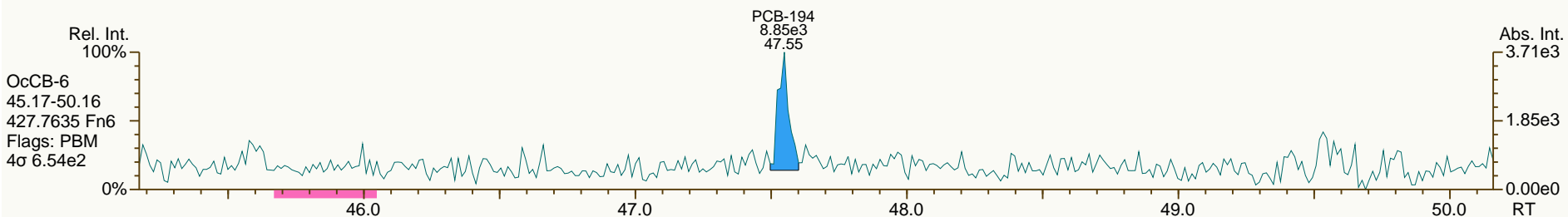
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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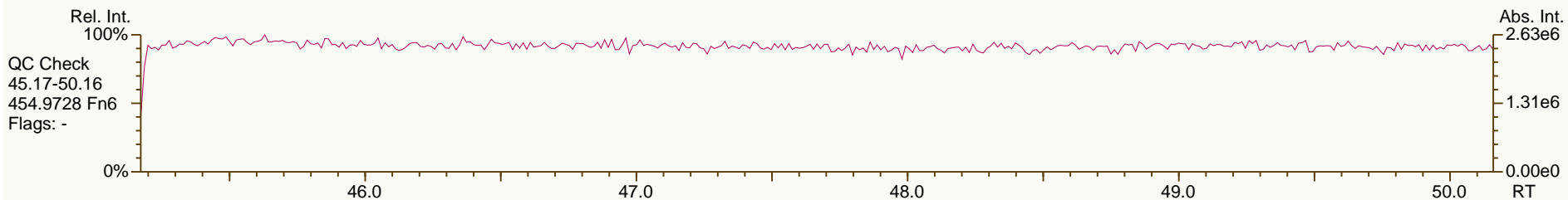
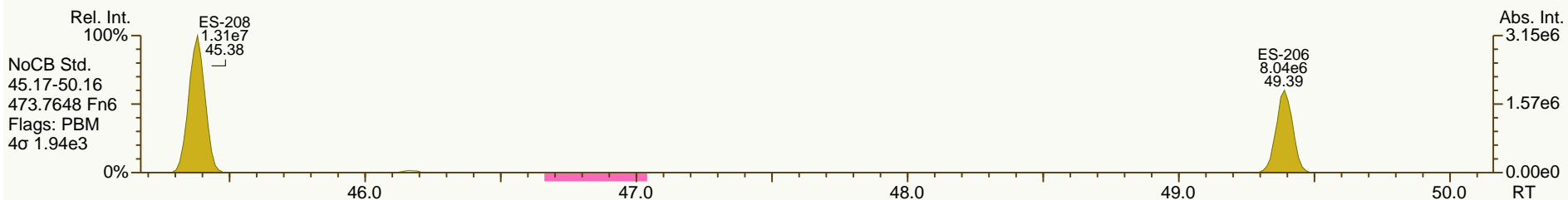
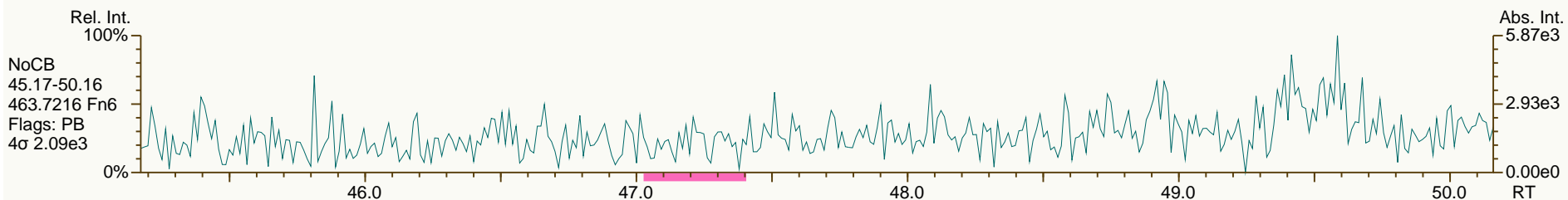
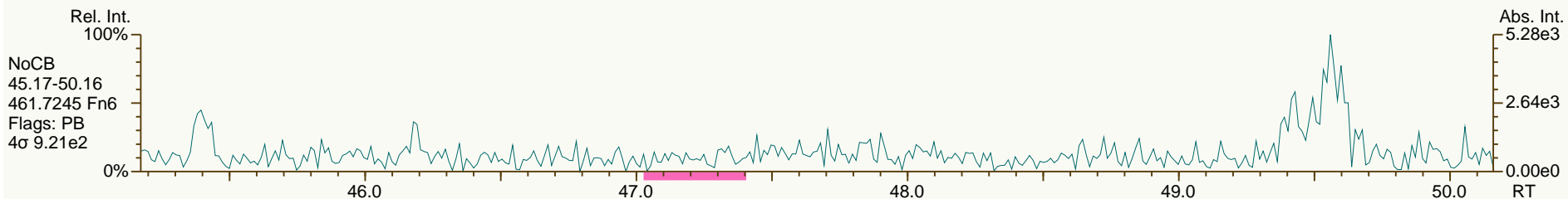
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

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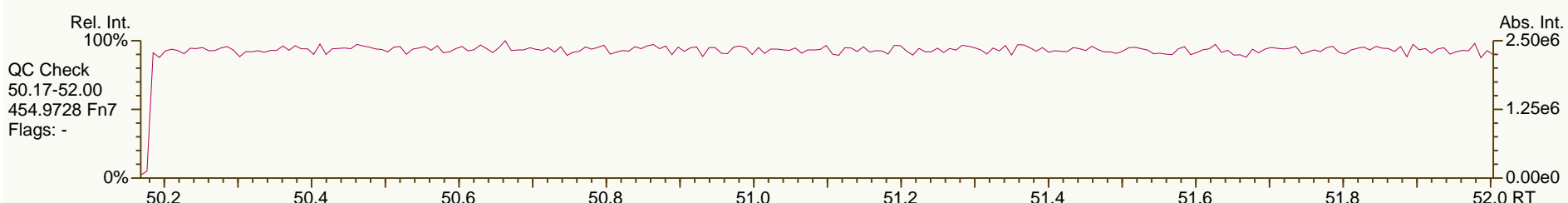
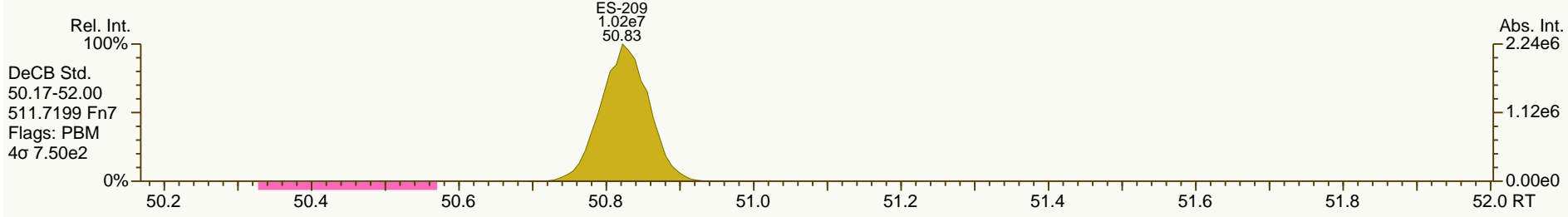
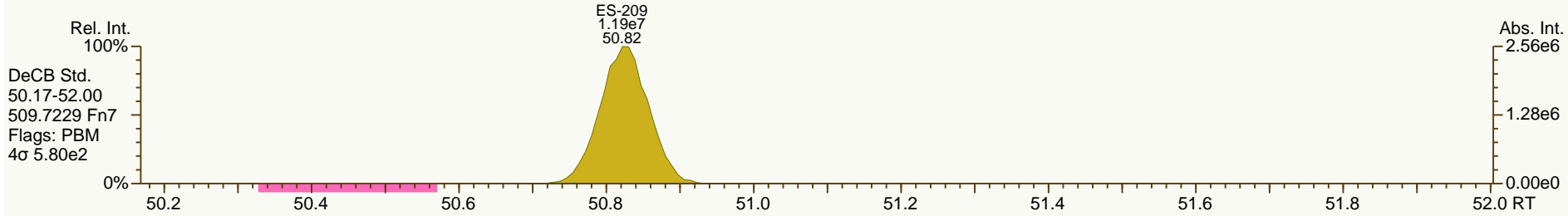
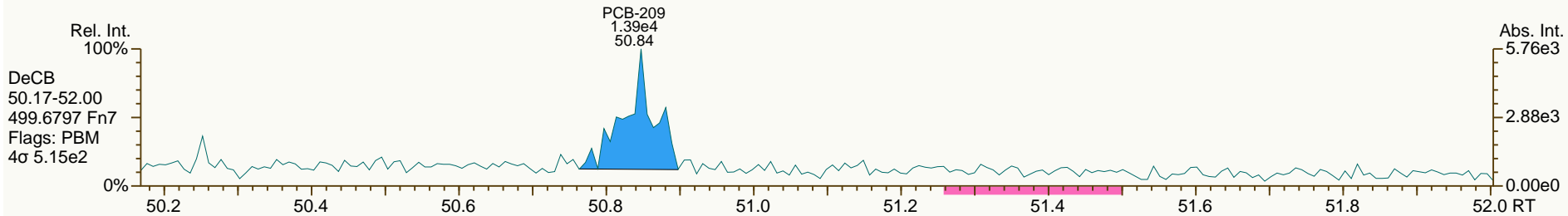
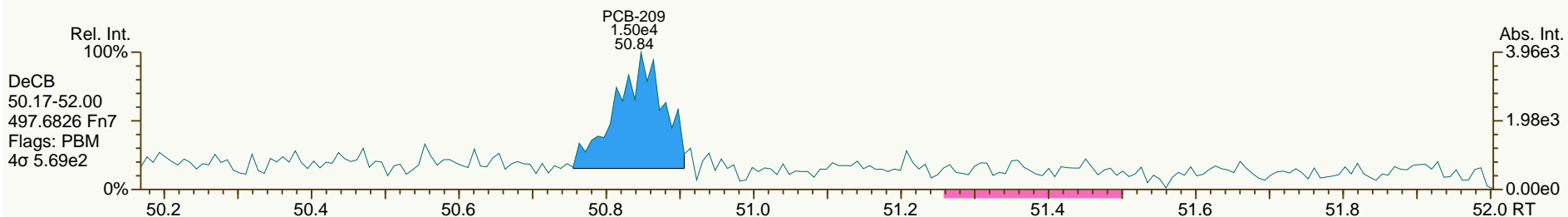
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SGS-AP ID: A6504\_11892\_PCB\_007  
 Instr: AutoSpec-Premier MM7

Sample ID: PB119\_B-1SWMID-140313-N (TOTAL)  
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Lab ID: A6504\_11892\_PCB\_008

ACQ: 27-Mar-2014 04:28:49 LKB

Wt/Vol: 0.97 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140326\_PCB\_XC

Client ID: EB1-01 (TOTAL)

UTP: 31-Mar-2014 18:28 CEM

J-level: 10.4 pg/L Split: 1

Checkcode: 842-903-YGS

Datafile: 140326X16

RPT: 31-Mar-2014 18:59 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	2.70E+03	1.6
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.70E+03	1.75
PCB-105 233'44'-PeCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.59E+03	1.22
PCB-114 2344'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.20	ND	1.59E+03	1.04
PCB-118 23'44'5'-PeCB	34.78	J B	1.0006	1.0005	-0.2	3.81E+04	0.69	1.19	2.66	1.59E+03	1.1
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	1.59E+03	1.11
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	1.90E+03	1.73
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.37E+03	1.63
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.37E+03	1.06
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.37E+03	1.34
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.47E+03	1.5
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.02E+03	1.69
ES PCB-1	11.89		0.7244	0.7246	+0.1	2.56E+07	3.25	1.19	47.8 %	15%	150%
ES PCB-3	14.18		0.8639	0.8641	+0.2	2.98E+07	3.36	1.09	61.2 %	15%	150%
ES PCB-4	14.43		0.8794	0.8794	0	1.63E+07	1.59	0.52	69.7 %	25%	150%
ES PCB-15	20.15		1.2273	1.2274	+0.1	4.38E+07	1.54	1.04	94 %	25%	150%
ES PCB-19	17.52		1.0673	1.0671	-0.2	1.92E+07	1.07	0.51	84.7 %	25%	150%
ES PCB-37	26.47		1.0788	1.0789	+0.2	3.44E+07	1.09	1.66	83.6 %	25%	150%
ES PCB-54	20.43		0.8328	0.8327	-0.1	1.92E+07	0.75	0.86	90.2 %	25%	150%
ES PCB-77	32.79		1.3366	1.3367	+0.2	3.04E+07	0.79	1.38	88.7 %	25%	150%
ES PCB-81	32.31		1.3172	1.3172	0	2.89E+07	0.80	1.37	85.5 %	25%	150%
ES PCB-104	25.40		0.8324	0.8323	-0.2	1.95E+07	1.60	0.80	108 %	25%	150%
ES PCB-105	35.77		1.1721	1.1722	+0.2	2.51E+07	1.61	1.20	92.8 %	25%	150%
ES PCB-114	35.23		1.1544	1.1545	+0.2	2.54E+07	1.60	1.22	92.7 %	25%	150%
ES PCB-118	34.76		1.1392	1.1392	0	2.49E+07	1.56	1.16	95.4 %	25%	150%
ES PCB-123	34.48		1.1300	1.1300	0	2.47E+07	1.64	1.19	92.2 %	25%	150%
ES PCB-126	38.38		1.2577	1.2578	+0.2	2.18E+07	1.55	1.03	94.2 %	25%	150%
ES PCB-153	36.35		0.9716	0.9716	0	1.86E+07	1.28	1.11	95.4 %	25%	150%
ES PCB-155	30.35		0.8113	0.8112	-0.2	2.62E+07	1.30	1.59	94.9 %	25%	150%
ES PCB-156/157	40.93		1.0940	1.0940	0	4.38E+07	1.26	1.60	78.9 %	25%	150%
ES PCB-167	39.94		1.0677	1.0677	0	2.38E+07	1.25	1.67	82.3 %	25%	150%
ES PCB-169	43.64		1.1666	1.1666	0	2.03E+07	1.25	1.56	75.1 %	25%	150%
ES PCB-170	43.16		0.9080	0.9080	0	1.39E+07	1.08	0.95	99.4 %	25%	150%
ES PCB-180	42.09		0.8855	0.8855	0	1.66E+07	1.06	1.14	98.8 %	25%	150%
ES PCB-188	35.22		0.7411	0.7411	0	1.84E+07	1.02	0.94	113 %	25%	150%
ES PCB-189	45.77		0.9629	0.9629	0	2.01E+07	1.02	1.58	102 %	25%	150%
ES PCB-202	39.76		0.8365	0.8365	0	1.74E+07	0.91	0.97	104 %	25%	150%
ES PCB-205	47.93		1.0084	1.0084	0	1.44E+07	0.89	1.24	93.1 %	25%	150%
ES PCB-206	49.39		1.0392	1.0392	0	9.88E+06	0.80	0.83	96 %	25%	150%
ES PCB-208	45.38		0.9548	0.9548	0	1.63E+07	0.80	1.17	112 %	25%	150%
ES PCB-209	50.83		1.0694	1.0694	0	1.26E+07	1.20	1.11	91.4 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.91		0.9339	0.9339	0	3.94E+07	1.08	1.11	103 %	30%	135%
SS PCB-111	32.81		1.0750	1.0751	+0.2	2.63E+07	1.60	1.03	103 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	1.15E+07	1.05	0.62	100 %	30%	135%
CS PCB-28	22.91		0.9339	0.9339	0	3.94E+07	1.08	1.85	86.3 %	30%	135%
CS PCB-111	32.81		1.0750	1.0751	+0.2	2.63E+07	1.60	1.22	95.4 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	1.15E+07	1.05	0.58	113 %	30%	135%
JS PCB-9	16.41					4.49E+07	1.56				
JS PCB-52	24.53					2.47E+07	0.81				
JS PCB-101	30.52					2.25E+07	1.54				
JS PCB-138	37.41					1.74E+07	1.31				
JS PCB-194	47.53					1.24E+07	0.87				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			0		0		3.05	
			Di-CBs			16.1		16.1		4.02	
			Tri-CBs			16.5		21		3.61	
			Tetra-CBs			151		155		1.63	
			Penta-CBs			16.1		16.1		1.18	
			Hexa-CBs			0		11.1		1.2	
			Hepta-CBs			2.84		4.69		1.34	
			Octa-CBs			0		0		1.53	
			Nona-CBs			0		0		4.13	
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00		0.95	ND	5.70E+03	3.34
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.12	ND	5.70E+03	2.49
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00		1.01	ND	5.70E+03	2.76
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00		1.23	ND	6.34E+03	4.8
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	6.34E+03	3.08
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00		0.96	ND	8.15E+03	3.45
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	8.15E+03	3
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.01	ND	8.15E+03	3.26
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.01	ND	8.15E+03	3.27
PCB-8 24'-DiCB	17.24	J	1.0505	1.0504	-0.1	7.04E+04	SI	1.06	3.13	8.15E+03	3.11
PCB-14 35'-DiCB	NotFnd		0.9333	-		0.00E+00		1.21	ND	8.15E+03	2.72
PCB-11 33'-DiCB	19.58	B	0.9721	0.9722	+0.1	2.93E+05	SI	1.06	13	8.15E+03	3.1
PCB-13/12 34' /34'-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.05	ND	8.15E+03	3.15
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.02	ND	8.15E+03	3.24
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00		1.15	ND	5.60E+03	4.32
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1015	-		0.00E+00		1.54	ND	5.60E+03	3.22
PCB-17 22'4-TrCB	19.69	J	1.1244	1.1240	-0.5	1.02E+05	1.18	1.32	8.35	5.60E+03	3.76
PCB-27 23'6-TrCB	NotFnd		1.1354	-		0.00E+00		1.79	ND	5.60E+03	2.76
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.72	ND	5.60E+03	2.89
PCB-16 22'3-TrCB	NotFnd		1.1485	-		0.00E+00		0.98	ND	5.60E+03	5.05



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1759	-		0.00E+00		1.92	ND	5.60E+03	2.58
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.23	ND	5.30E+03	2.55
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.25	ND	5.30E+03	2.51
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8382	-		0.00E+00		1.27	ND	5.30E+03	2.47
PCB-25 23'4-TrCB	NotFnd		0.8457	-		0.00E+00		1.27	ND	5.30E+03	2.46
PCB-31 24'5-TrCB	22.66	J B	0.8562	0.8562	0	7.27E+04	1.11	1.33	3.3	5.30E+03	2.36
PCB-28/20 244'/233'-TrCB	22.93	J B C	0.8669	0.8663	-0.8	9.92E+04	1.18	1.23	4.85	5.30E+03	2.54
PCB-21/33 234/23'4'-TrCB	23.12	J EMPC C	0.8738	0.8737	-0.1	9.49E+04	1.25	1.27	4.52	5.30E+03	2.48
PCB-22 234'-TrCB	NotFnd		0.8879	-		0.00E+00		1.18	ND	5.30E+03	2.65
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.29	ND	5.30E+03	2.42
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.34	ND	5.30E+03	2.34
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	5.30E+03	2.58
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.17	ND	5.30E+03	2.68
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	5.30E+03	2.91
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	1.96E+03	1.38
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9145	-		0.00E+00		0.91	ND	2.12E+03	1.7
PCB-45 22'36-TeCB	NotFnd		0.9385	-		0.00E+00		0.82	ND	2.12E+03	1.87
PCB-51 22'46'-TeCB	23.09		0.9414	0.9413	-0.1	1.00E+06	0.76	0.88	81.8	2.12E+03	1.76
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.73	ND	2.12E+03	2.1
PCB-52 22'55'-TeCB	24.55	J B EMPC	1.0009	1.0009	0	5.55E+04	1.16	0.89	4.45	2.12E+03	1.73
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.12E+03	1.31
PCB-43 22'35-TeCB	NotFnd		1.0100	-		0.00E+00		0.76	ND	2.12E+03	2.02
PCB-69/49 23'46/22'45'-TeCB	24.99	J B C	1.0181	1.0188	+1.0	4.34E+04	0.70	1.09	2.85	2.12E+03	1.41
PCB-48 22'45-TeCB	NotFnd		1.0296	-		0.00E+00		0.89	ND	2.12E+03	1.73
PCB-44/47/65 ...-TeCB	25.49	J B C	1.0384	1.0389	+0.8	3.87E+05	0.81	0.95	29.3	2.12E+03	1.62
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0497	-		0.00E+00		1.24	ND	2.12E+03	1.24
PCB-42 22'34'-TeCB	NotFnd		1.0563	-		0.00E+00		0.82	ND	2.12E+03	1.89
PCB-41 22'34-TeCB	NotFnd		1.0700	-		0.00E+00		0.75	ND	2.12E+03	2.06
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0738	-		0.00E+00		0.91	ND	2.12E+03	1.7
PCB-64 234'6-TeCB	NotFnd		1.0819	-		0.00E+00		1.31	ND	2.12E+03	1.17
PCB-72 23'55'-TeCB	NotFnd		0.8435	-		0.00E+00		1.27	ND	2.70E+03	1.54
PCB-68 23'45'-TeCB	27.51		0.8514	0.8514	0	6.85E+05	0.81	1.32	37.1	2.70E+03	1.48
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.21	ND	2.70E+03	1.62
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.22	ND	2.70E+03	1.6
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.29	ND	2.70E+03	1.51
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.36	ND	2.70E+03	1.44
PCB-61/70/74/76 ...-TeCB	NotFnd	C	0.8901	-		0.00E+00		1.22	ND	2.70E+03	1.61
PCB-66 23'44'-TeCB	NotFnd		0.8988	-		0.00E+00		1.17	ND	2.70E+03	1.67
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.15	ND	2.70E+03	1.7
PCB-56 233'4'-TeCB	NotFnd		0.9168	-		0.00E+00		1.16	ND	2.70E+03	1.69
PCB-60 2344'-TeCB	NotFnd		0.9228	-		0.00E+00		1.17	ND	2.70E+03	1.68
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.38	ND	2.70E+03	1.42
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.32	ND	2.70E+03	1.49
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	2.70E+03	1.76
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.23E+03	0.864
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.17	ND	1.23E+03	1.06
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	1.59E+03	1.41
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.80	ND	1.59E+03	1.68

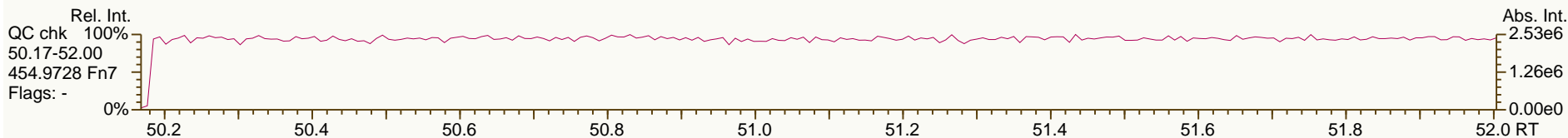
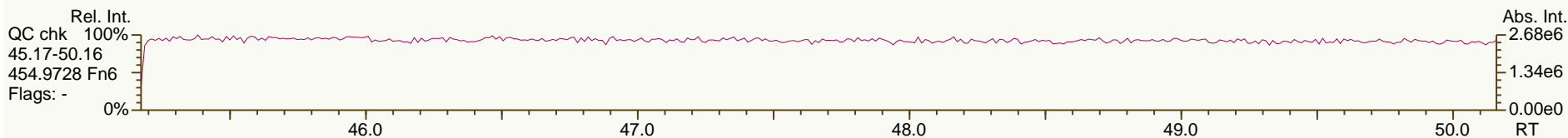
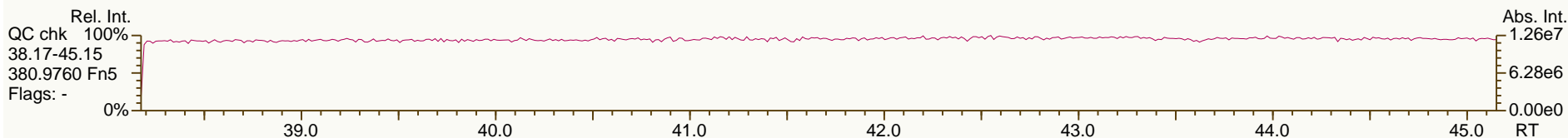
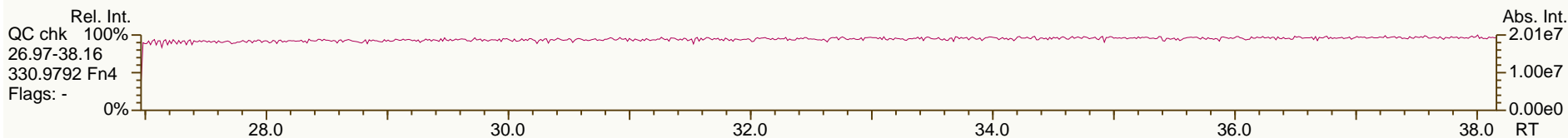
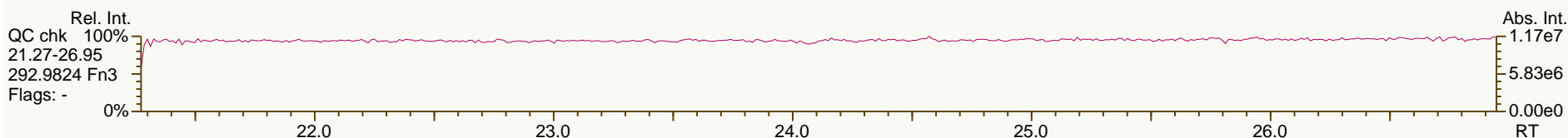
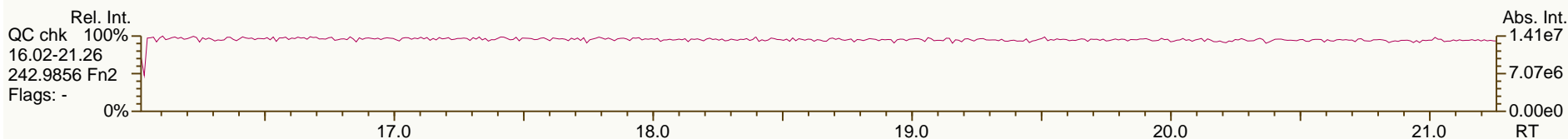
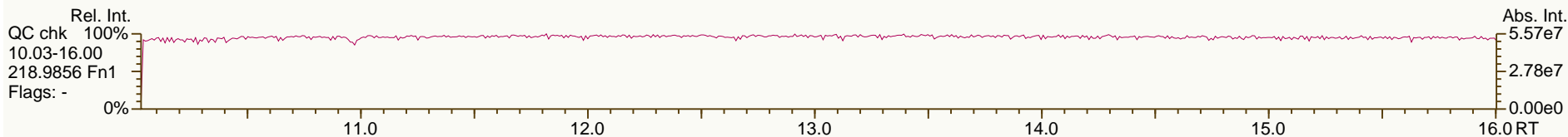
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.00	J B	0.9176	0.9175	-0.2	4.82E+04	0.71	0.87	4.66	1.59E+03	1.55
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	1.59E+03	1.54
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		0.88	ND	1.59E+03	1.53
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.85	ND	1.59E+03	1.57
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	1.59E+03	1.59
PCB-91 22'34'6-PeCB	NotFnd		0.9425	-		0.00E+00		0.86	ND	1.59E+03	1.57
PCB-84 22'33'6-PeCB	NotFnd		0.9487	-		0.00E+00		0.72	ND	1.59E+03	1.87
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.78	ND	1.59E+03	1.72
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	1.59E+03	1.1
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.84	ND	1.59E+03	1.59
PCB-113/90/101 ...-PeCB	30.53	J B C	0.9999	1.0006	+1.3	4.82E+04	0.66	0.97	4.16	1.59E+03	1.38
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.66	ND	1.59E+03	2.04
PCB-99 22'44'5-PeCB	NotFnd		1.0173	-		0.00E+00		0.98	ND	1.59E+03	1.37
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.16	ND	1.59E+03	1.16
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0320	-		0.00E+00		0.98	ND	1.59E+03	1.38
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	1.59E+03	1.24
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0525	-		0.00E+00		0.97	ND	1.59E+03	1.39
PCB-110 233'4'6-PeCB	32.24	J B	1.0563	1.0566	+0.6	5.97E+04	0.71	1.10	4.57	1.59E+03	1.22
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.12	ND	1.59E+03	1.2
PCB-82 22'33'4-PeCB	NotFnd		1.0656	-		0.00E+00		0.69	ND	1.59E+03	1.94
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.20	ND	1.59E+03	1.12
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.22	ND	1.59E+03	1.1
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.10	ND	1.59E+03	1.22
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.22	ND	1.59E+03	1.1
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.08	ND	1.59E+03	1.24
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	1.59E+03	1.23
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.06	ND	1.59E+03	1.27
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.26E+03	0.777
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.09	ND	1.26E+03	0.901
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.26E+03	0.875
PCB-136 22'33'66'-HxCB	NotFnd		1.0207	-		0.00E+00		1.02	ND	1.26E+03	0.956
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.04	ND	1.26E+03	0.944
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.12	ND	1.26E+03	1.25
PCB-151/135 ...-HxCB	NotFnd	C	1.0886	-		0.00E+00		1.06	ND	1.26E+03	1.33
PCB-154 22'44'56'-HxCB	NotFnd		1.0955	-		0.00E+00		1.26	ND	1.26E+03	1.12
PCB-144 22'345'6-HxCB	NotFnd		1.1042	-		0.00E+00		1.10	ND	1.26E+03	1.28
PCB-147/149 ...-HxCB	33.82	J B EMPC C	1.1142	1.1144	+0.4	4.51E+04	1.44	1.10	4.57	1.26E+03	1.28
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.81	ND	1.26E+03	1.73
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.09	ND	1.26E+03	1.29
PCB-139/140 ...-HxCB	NotFnd	C	1.1313	-		0.00E+00		1.11	ND	1.26E+03	1.27
PCB-131 22'33'46-HxCB	NotFnd		1.1370	-		0.00E+00		0.94	ND	1.26E+03	1.49
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.92	ND	1.26E+03	1.53
PCB-132 22'33'46'-HxCB	NotFnd		1.1495	-		0.00E+00		0.97	ND	1.26E+03	1.45
PCB-133 22'33'55'-HxCB	NotFnd		1.1628	-		0.00E+00		1.04	ND	1.26E+03	1.36
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.26E+03	1.07
PCB-146 22'34'55'-HxCB	NotFnd		0.9582	-		0.00E+00		1.16	ND	1.26E+03	1.22
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.42	ND	1.26E+03	0.991
PCB-153/168 ...-HxCB	36.38	J B EMPC C	0.9728	0.9724	-0.9	2.88E+04	1.70	1.38	2.32	1.26E+03	1.02

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9767	-		0.00E+00		1.01	ND	1.26E+03	1.4
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.91	ND	1.26E+03	1.55
PCB-137 22'344'5-HxCB	NotFnd		0.9912	-		0.00E+00		1.15	ND	1.26E+03	1.23
PCB-164 233'4'5'6-HxCB	NotFnd		0.9934	-		0.00E+00		1.37	ND	1.26E+03	1.03
PCB-163/138/129 ...-HxCB	37.43	J B EMPC C	1.0011	1.0005	-1.3	4.21E+04	1.05	1.12	4.18	1.26E+03	1.25
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.26E+03	1.11
PCB-158 233'44'6-HxCB	NotFnd		1.0096	-		0.00E+00		1.49	ND	1.26E+03	0.946
PCB-128/166 ...-HxCB	NotFnd	C	0.9640	-		0.00E+00		0.89	ND	1.37E+03	1.4
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.37E+03	1.15
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.37E+03	1.16
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.04E+03	0.936
PCB-179 22'33'566'-HpCB	NotFnd		1.0086	-		0.00E+00		1.09	ND	1.04E+03	1.09
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.04	ND	1.04E+03	1.14
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.15	ND	1.04E+03	1.03
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.08	ND	1.04E+03	1.1
PCB-178 22'33'55'6-HpCB	NotFnd		1.0733	-		0.00E+00		0.75	ND	1.04E+03	1.58
PCB-175 22'33'45'6-HpCB	NotFnd		1.0888	-		0.00E+00		1.09	ND	1.17E+03	1.39
PCB-187 22'34'55'6-HpCB	38.59	J EMPC	1.0953	1.0957	+0.9	1.74E+04	0.83	1.17	1.86	1.17E+03	1.31
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.20	ND	1.17E+03	1.27
PCB-183 22'344'5'6-HpCB	NotFnd		1.1101	-		0.00E+00		1.23	ND	1.17E+03	1.24
PCB-185 22'3455'6-HpCB	NotFnd		1.1125	-		0.00E+00		1.05	ND	1.17E+03	1.45
PCB-174 22'33'456'-HpCB	NotFnd		1.1156	-		0.00E+00		1.01	ND	1.17E+03	1.51
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1263	-		0.00E+00		0.96	ND	1.17E+03	1.59
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.08	ND	1.17E+03	1.41
PCB-171/173 ...-HpCB	NotFnd	C	1.1414	-		0.00E+00		0.95	ND	1.17E+03	1.61
PCB-172 22'33'455'-HpCB	NotFnd		0.9079	-		0.00E+00		0.99	ND	1.17E+03	1.54
PCB-192 233'455'6-HpCB	NotFnd		0.9133	-		0.00E+00		1.29	ND	1.17E+03	1.19
PCB-180/193 ...-HpCB	42.11	J C	0.9193	0.9200	+1.8	2.80E+04	1.13	1.23	2.84	1.17E+03	1.24
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.17E+03	1.13
PCB-170 22'33'44'5-HpCB	NotFnd		0.9434	-		0.00E+00		1.12	ND	1.17E+03	1.63
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.54	ND	1.17E+03	1.18
PCB-202 22'33'55'66'-OoCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.17E+03	1.28
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.17E+03	1.21
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.17E+03	1.3
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0395	-		0.00E+00		1.09	ND	1.17E+03	1.24
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.09	ND	1.17E+03	1.24
PCB-198/199 ...-OoCB	NotFnd	C	1.1002	-		0.00E+00		0.72	ND	1.17E+03	1.87
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1147	-		0.00E+00		0.76	ND	1.17E+03	1.77
PCB-203 22'344'55'6-OoCB	NotFnd		1.1189	-		0.00E+00		0.78	ND	1.17E+03	1.73
PCB-195 22'33'44'56-OoCB	NotFnd		0.9516	-		0.00E+00		0.75	ND	1.23E+03	2.51
PCB-194 22'33'44'55'-OoCB	NotFnd		0.9921	-		0.00E+00		0.81	ND	1.23E+03	2.31
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.23E+03	1.77
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.52E+03	3.07
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.14	ND	2.52E+03	3.03
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.52E+03	5.2

SGS-AP ID: A6504\_11892\_PCB\_008  
Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

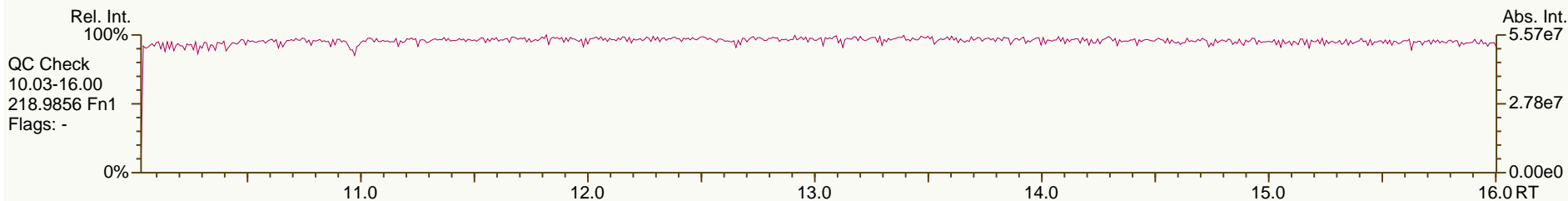
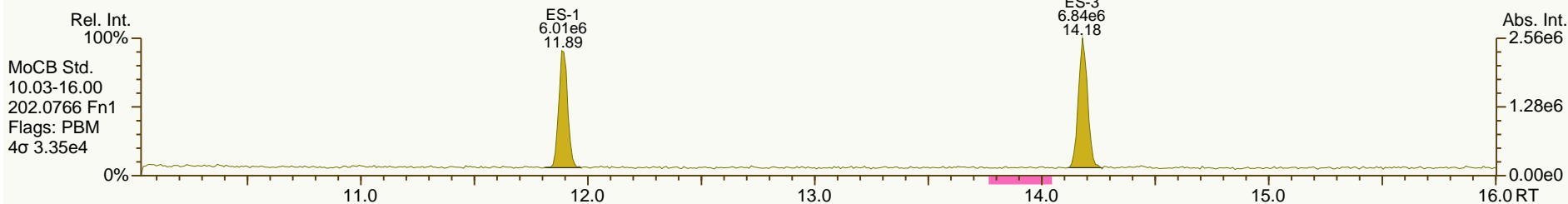
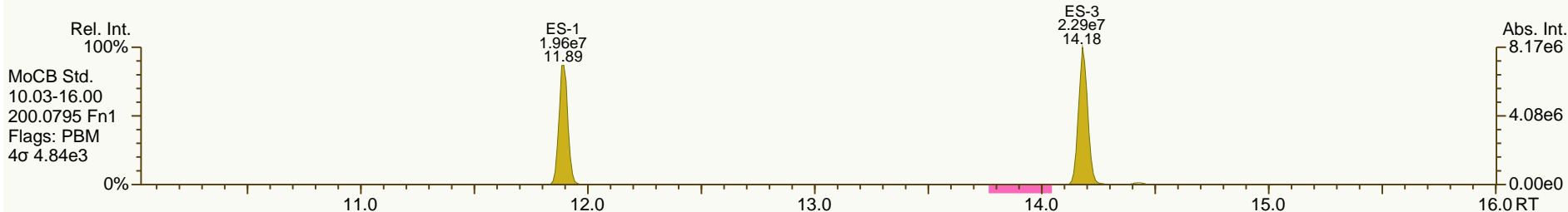
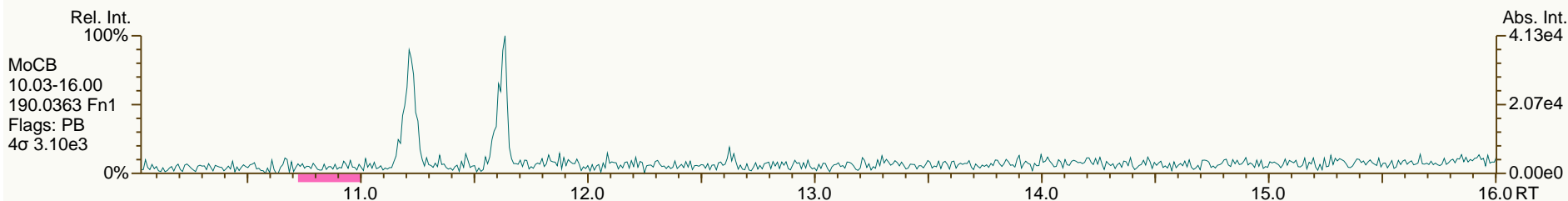
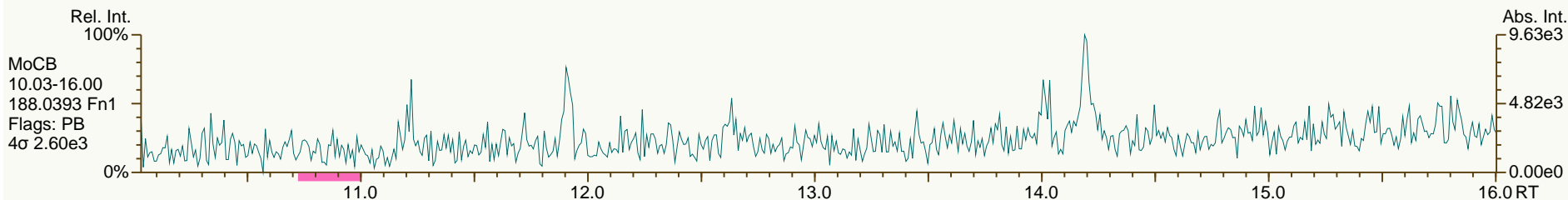
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SGS-AP ID: A6504\_11892\_PCB\_008  
Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

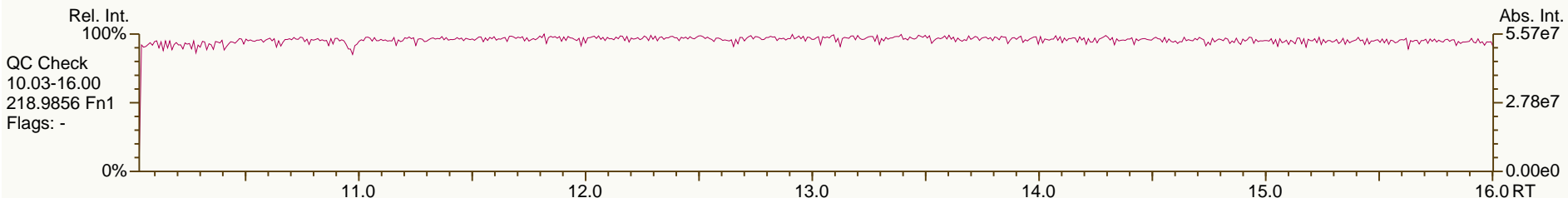
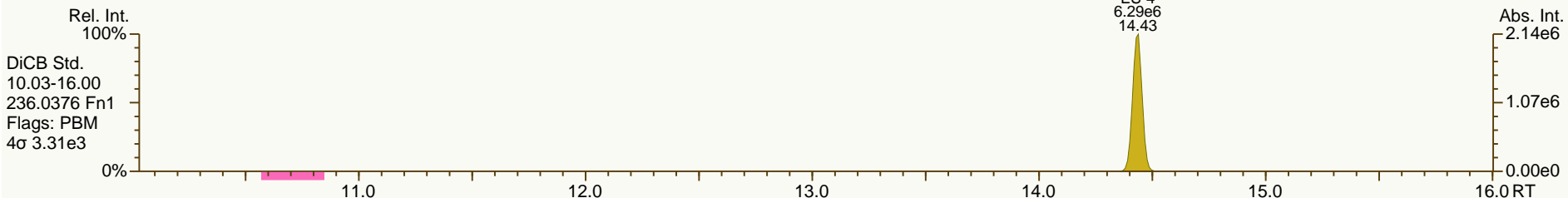
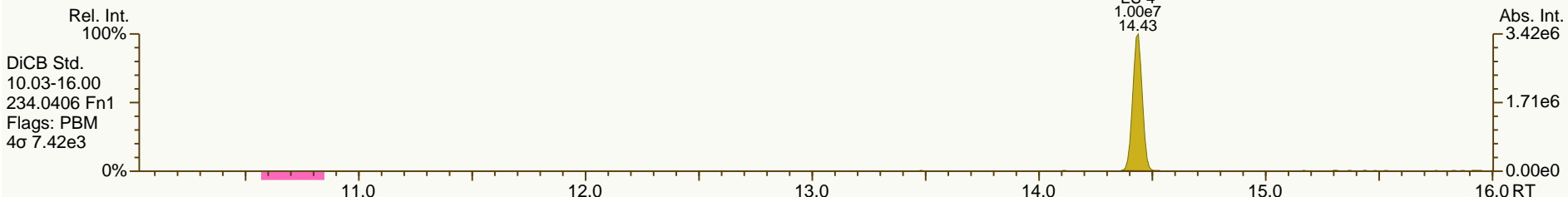
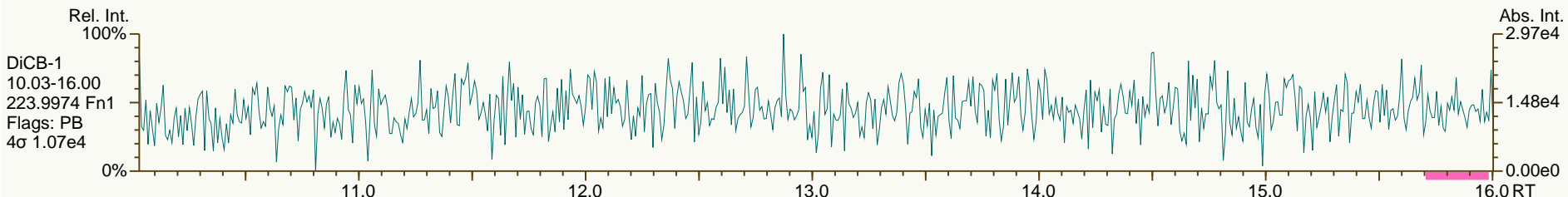
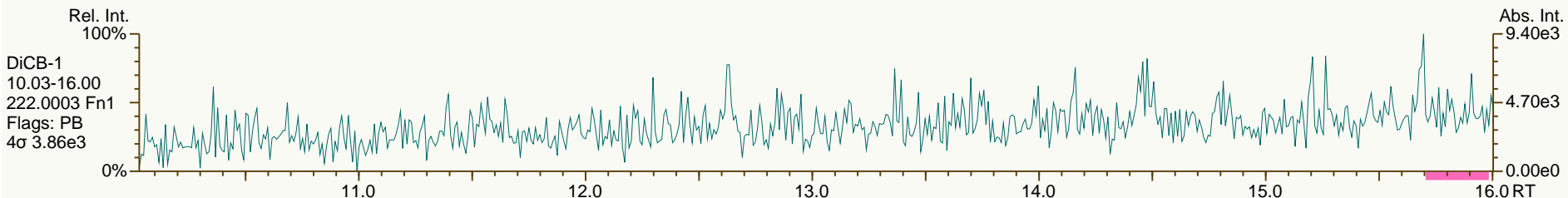
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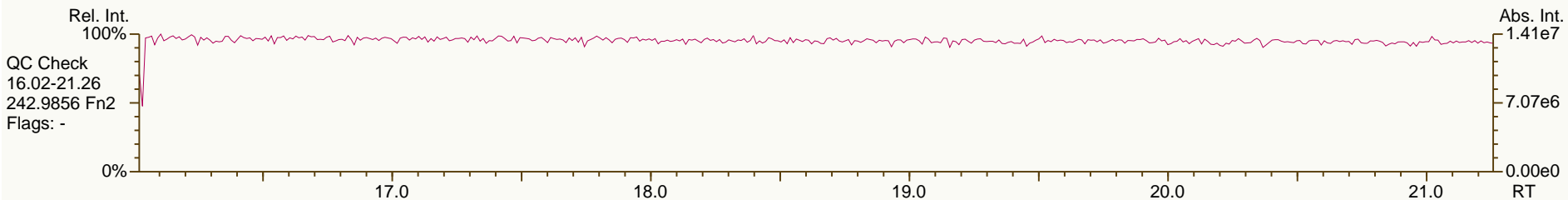
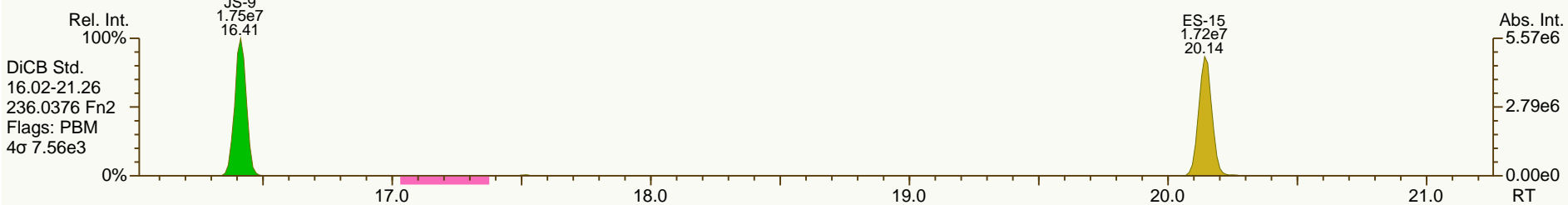
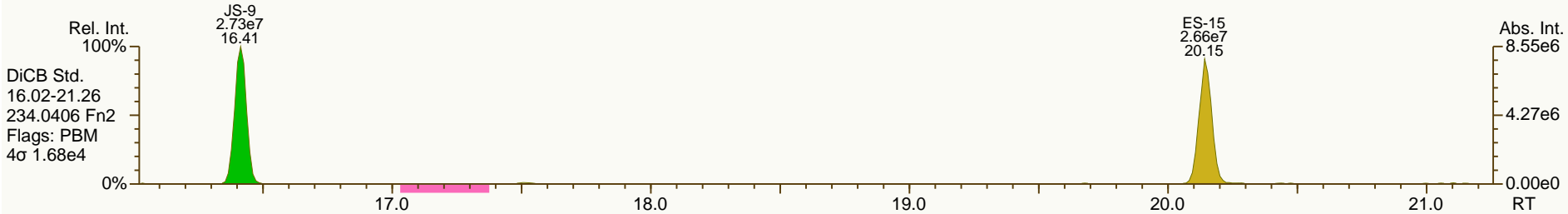
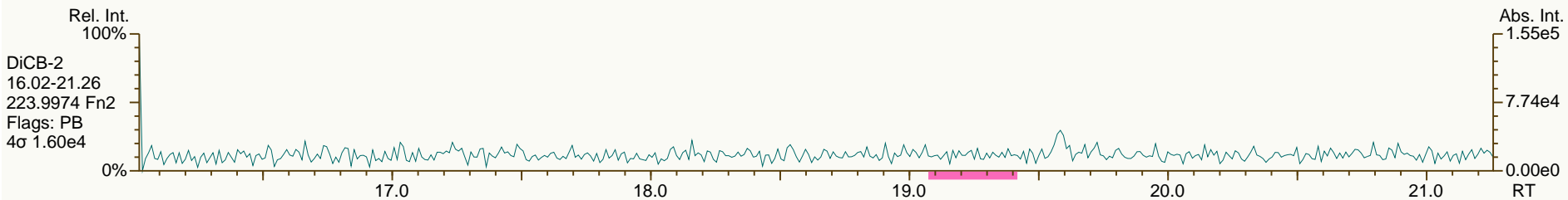
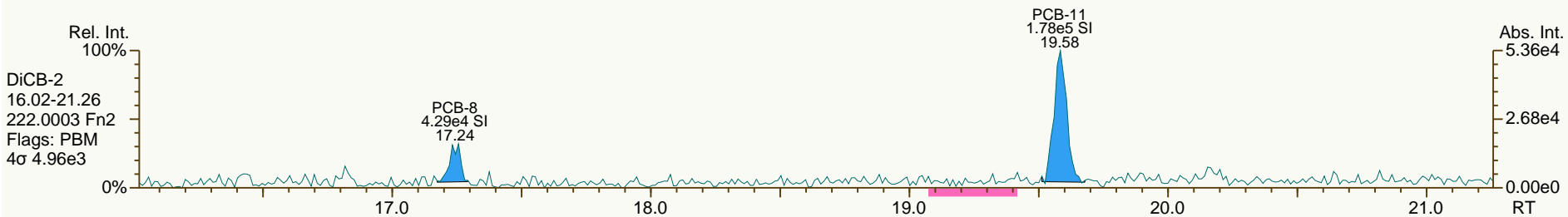
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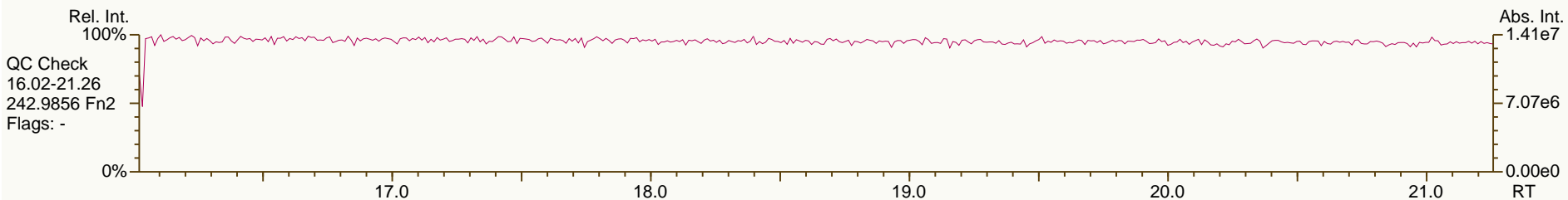
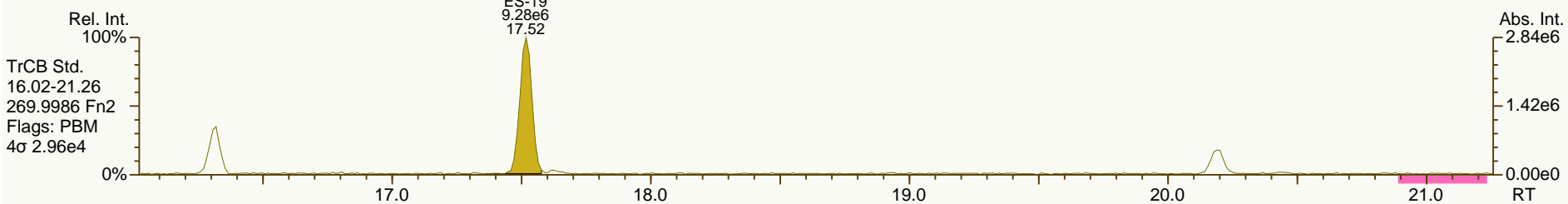
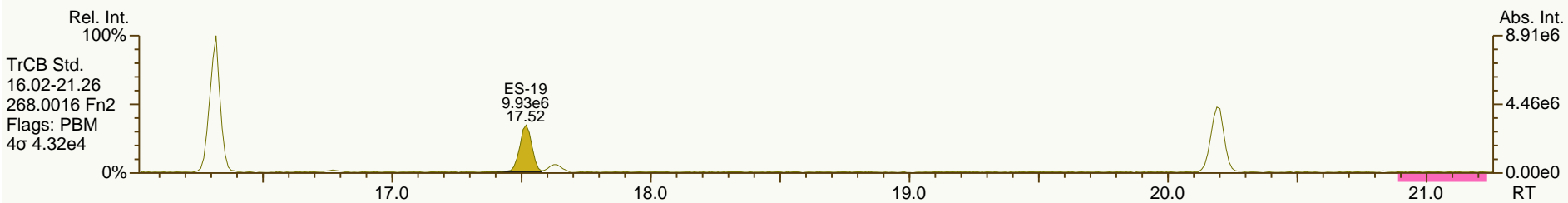
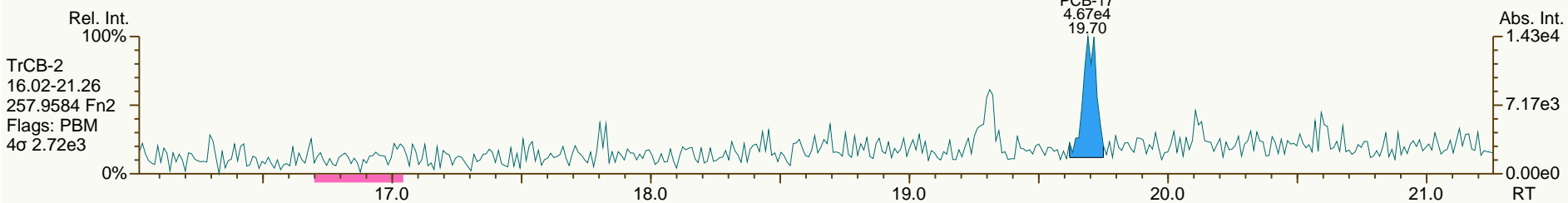
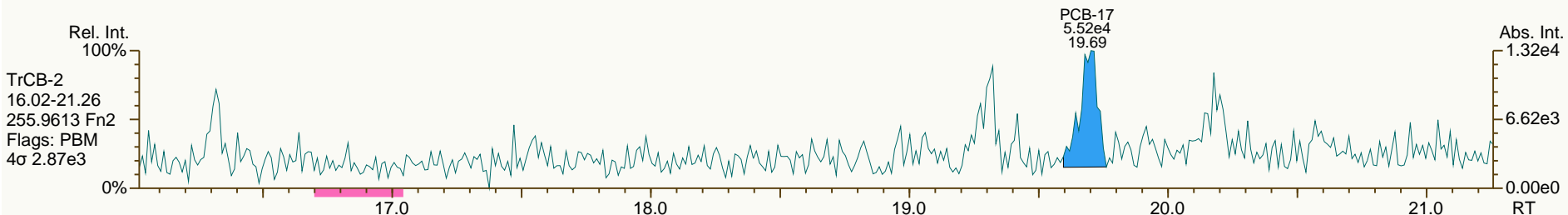
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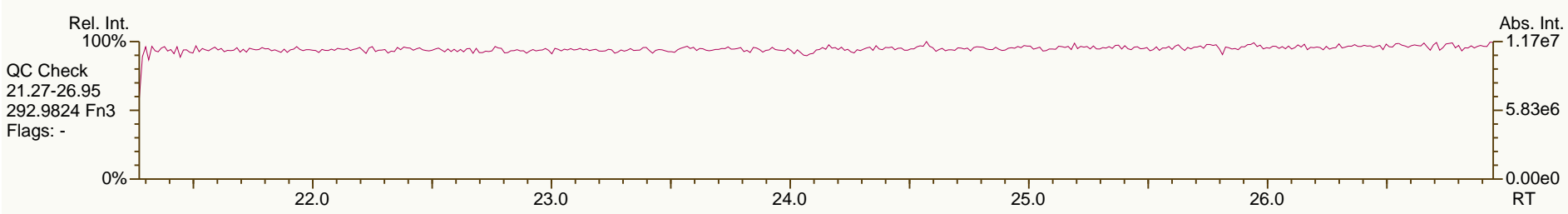
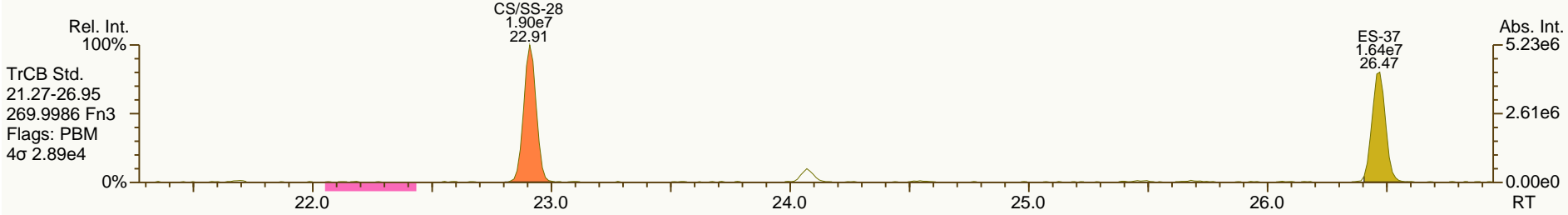
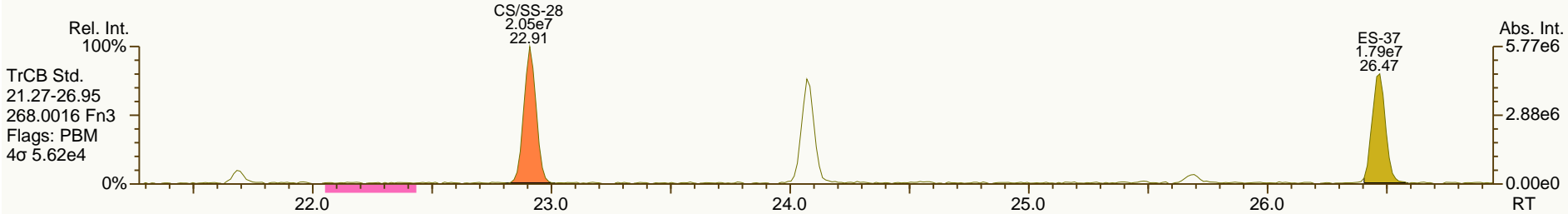
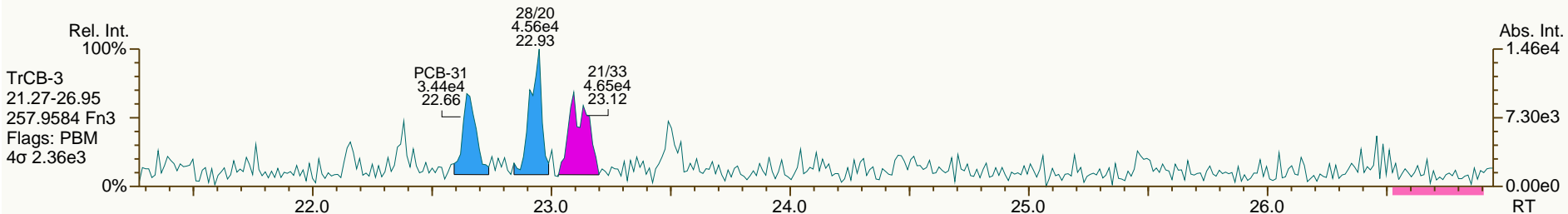
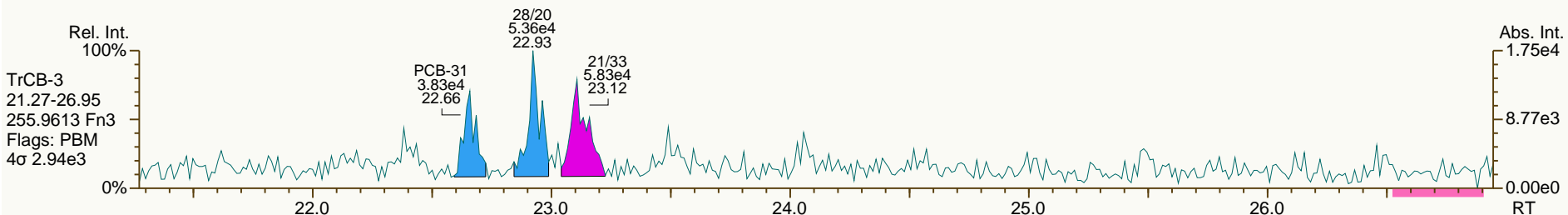




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Sample ID: EB1-01 (TOTAL)  
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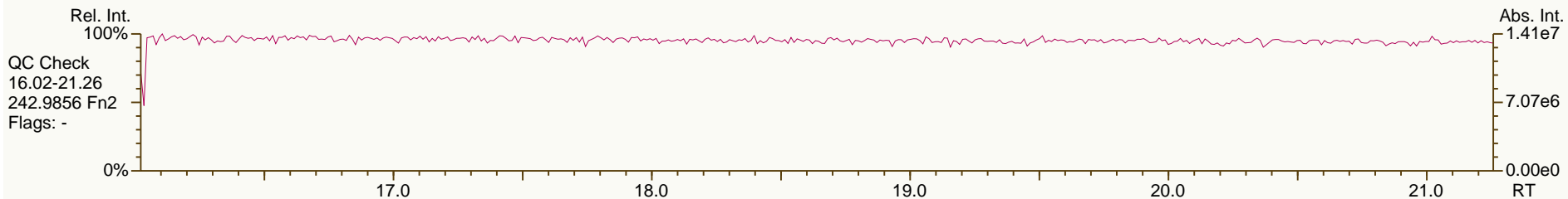
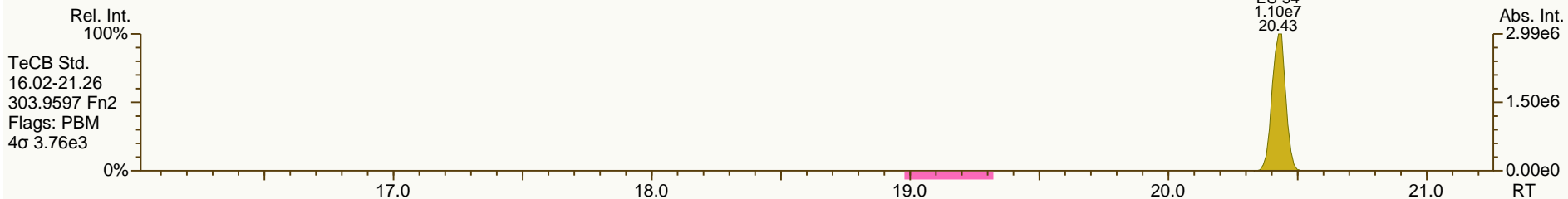
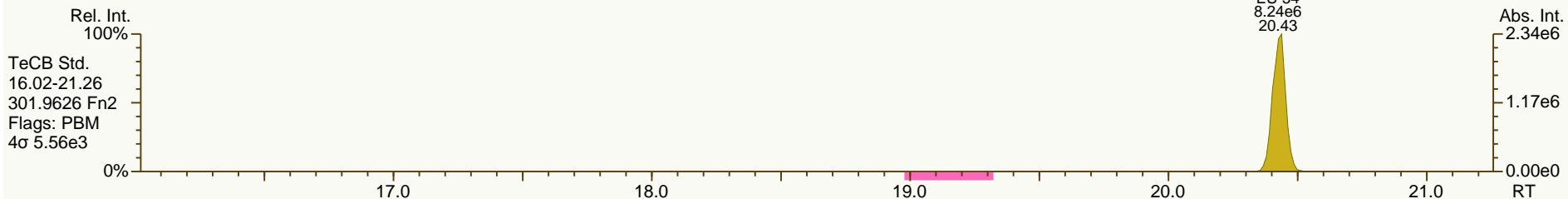
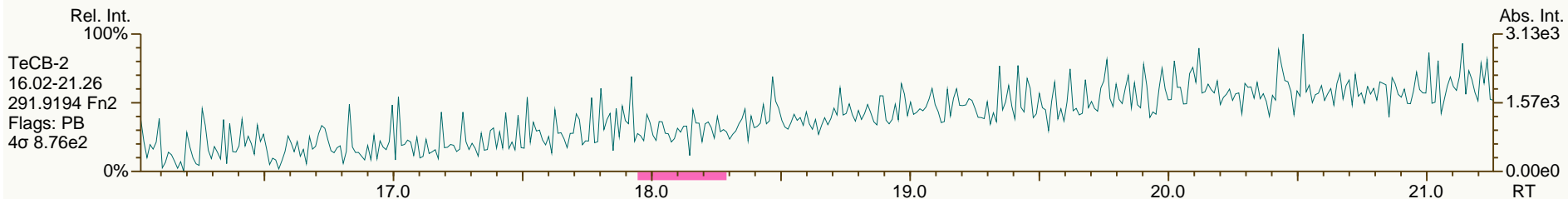
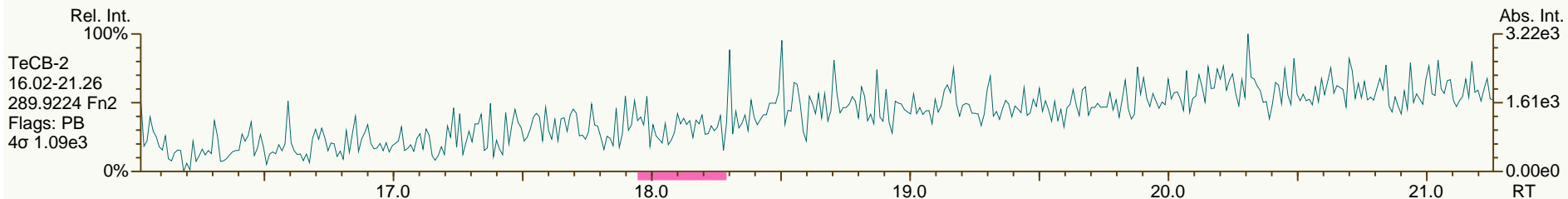
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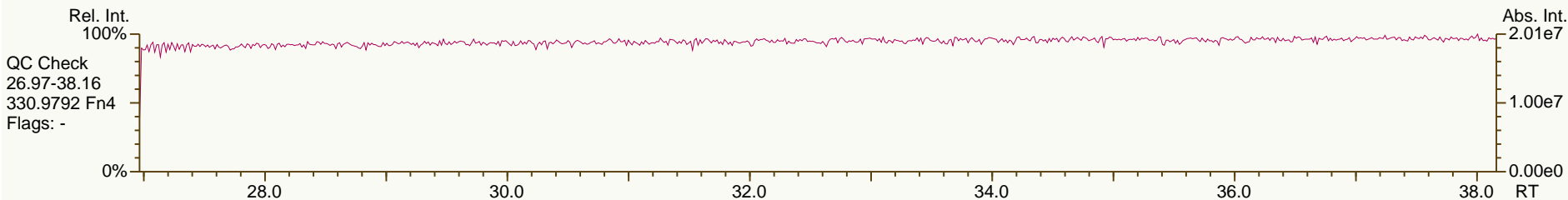
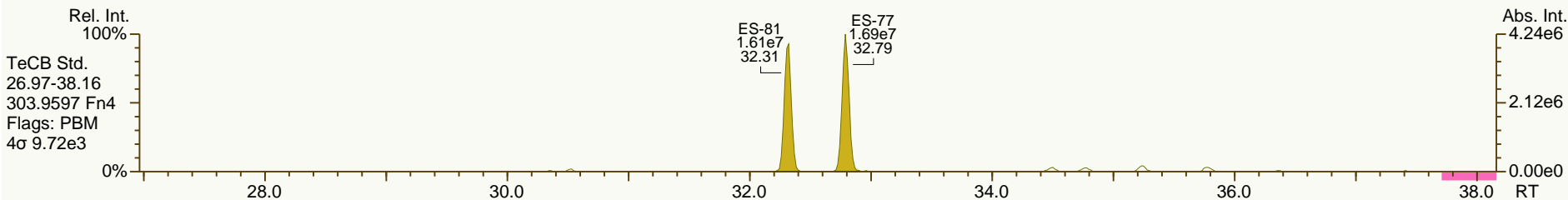
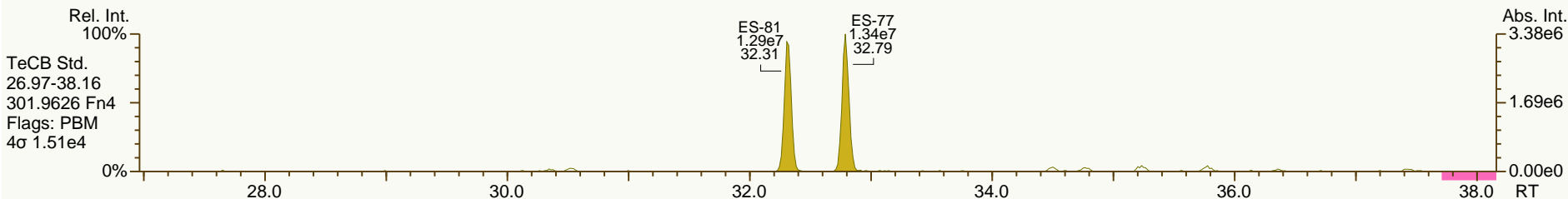
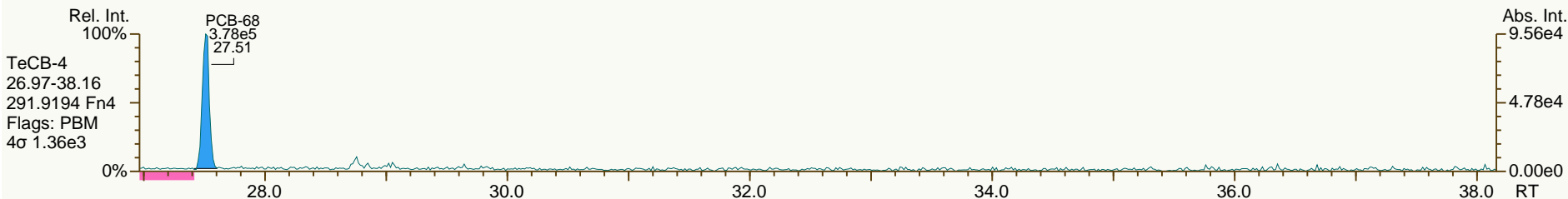
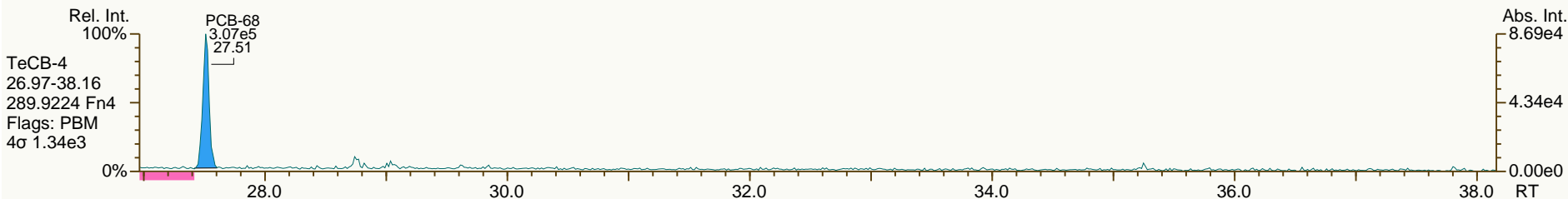
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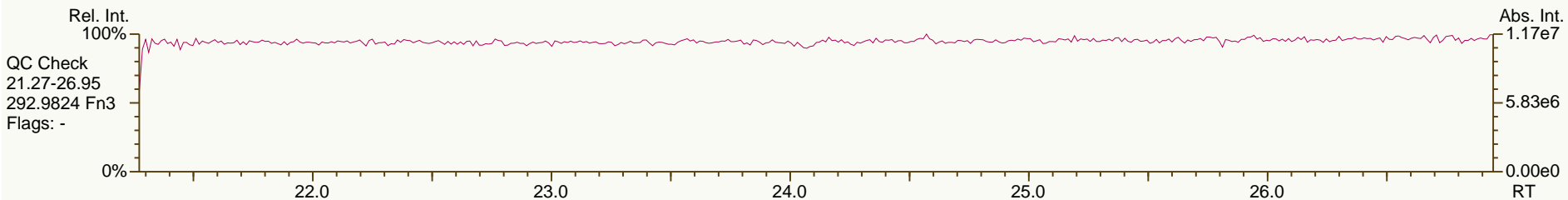
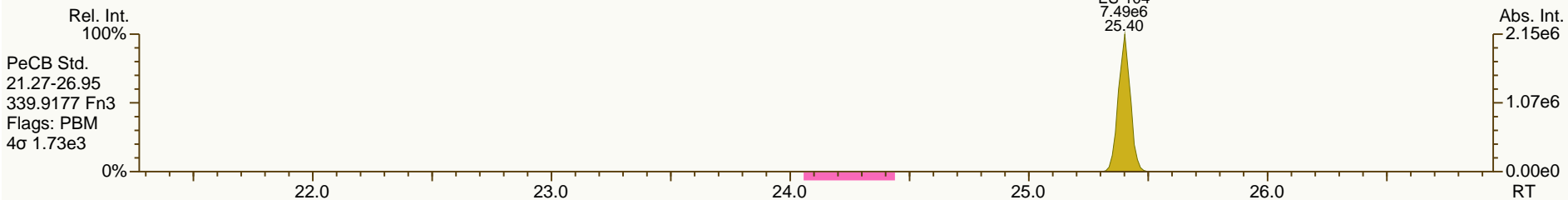
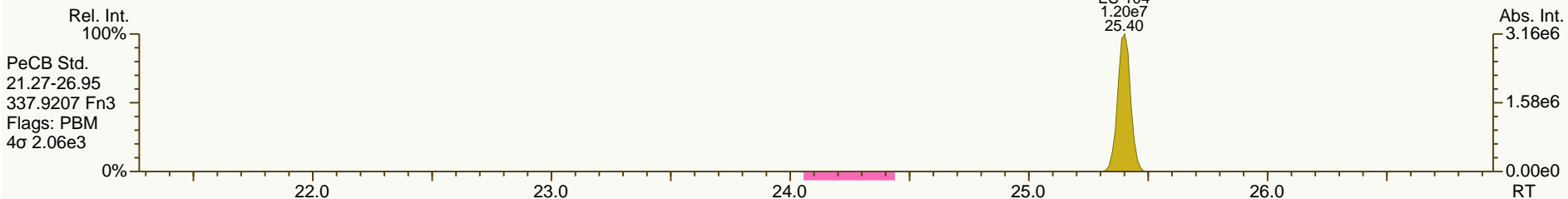
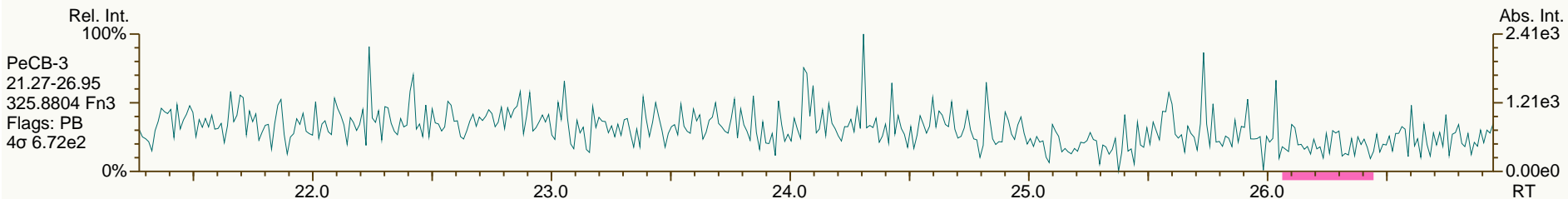
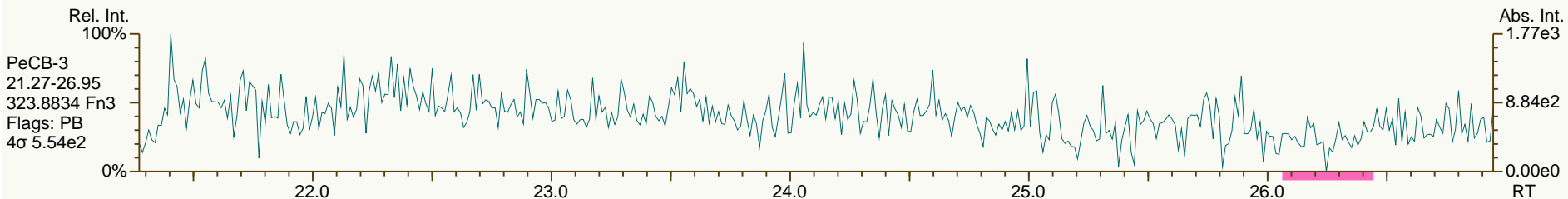
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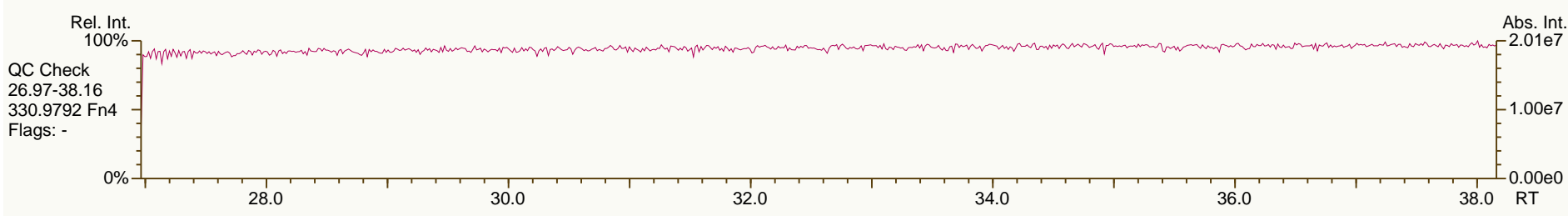
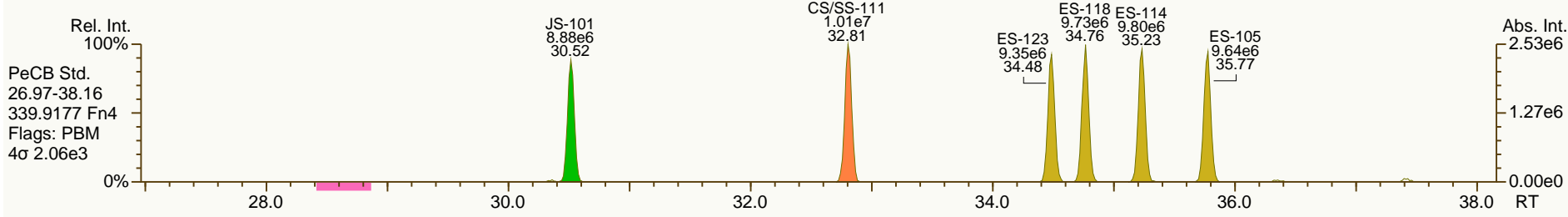
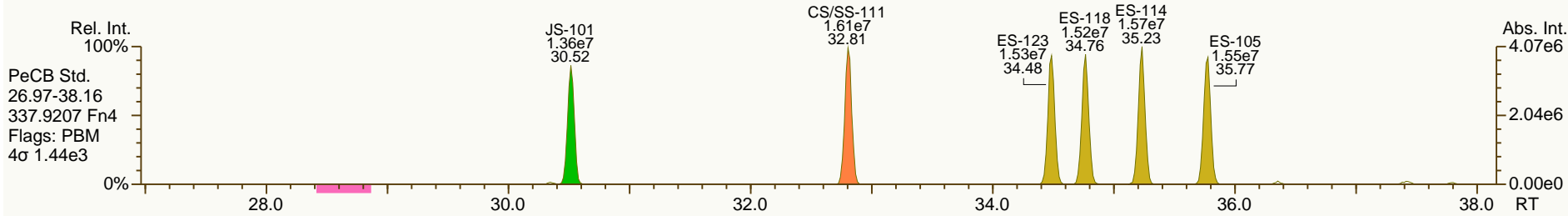
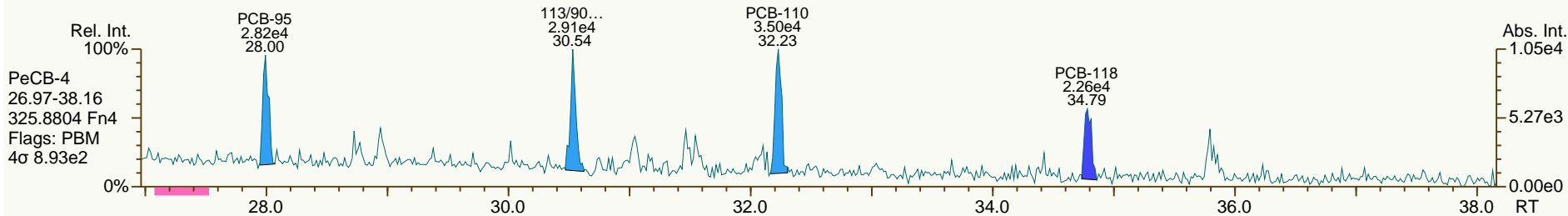
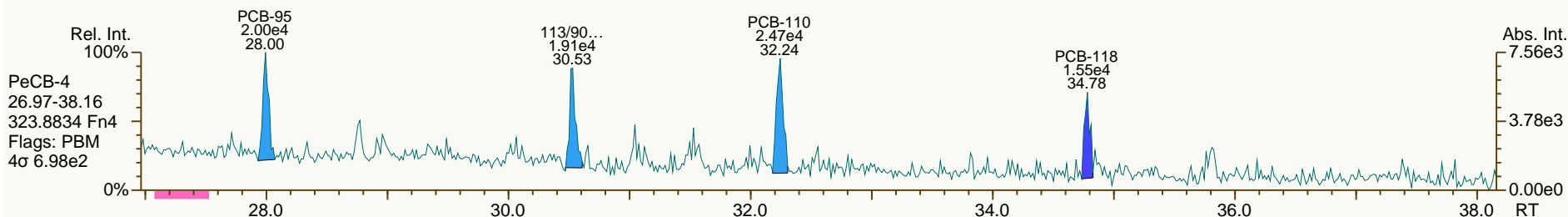
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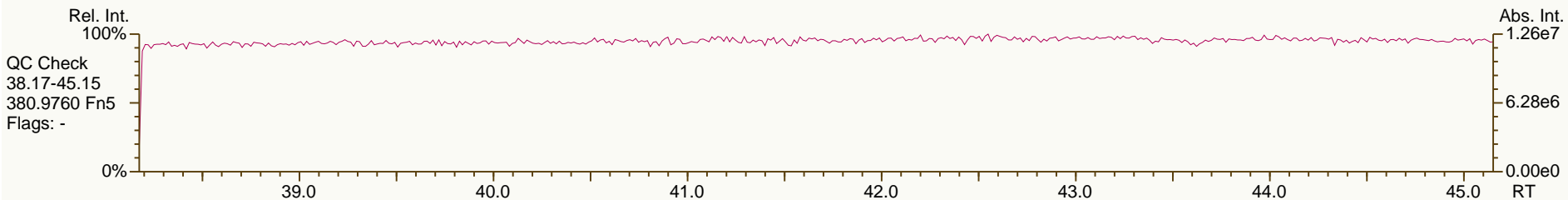
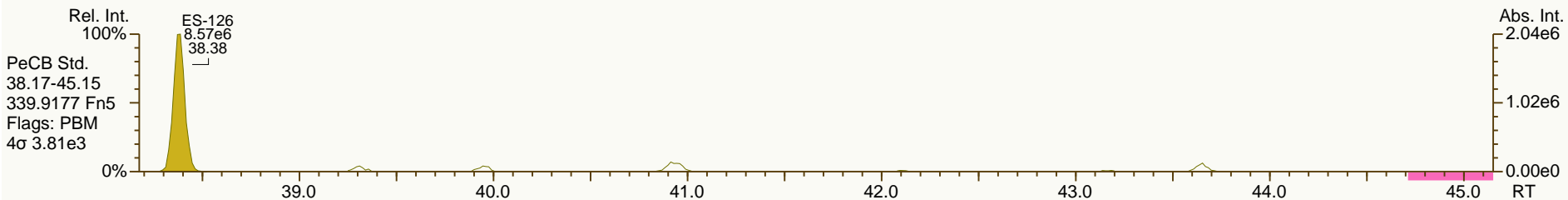
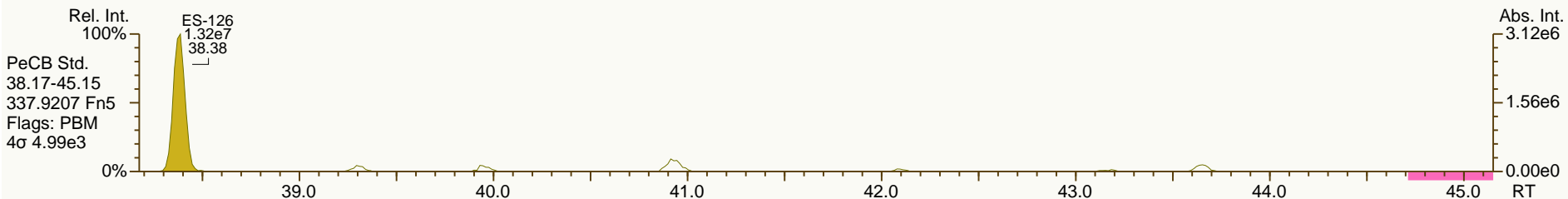
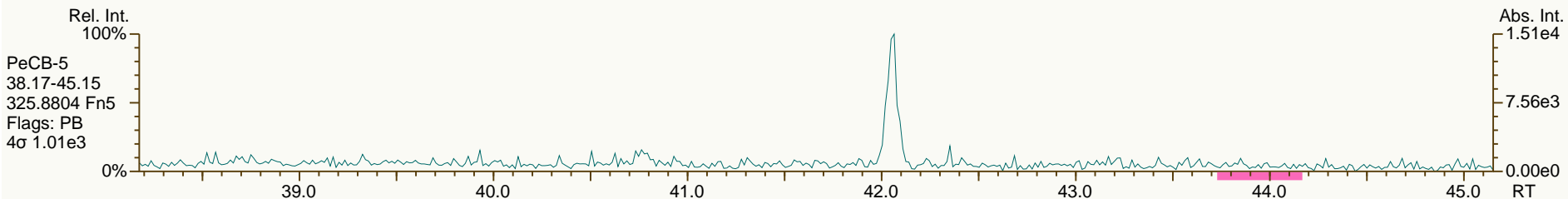
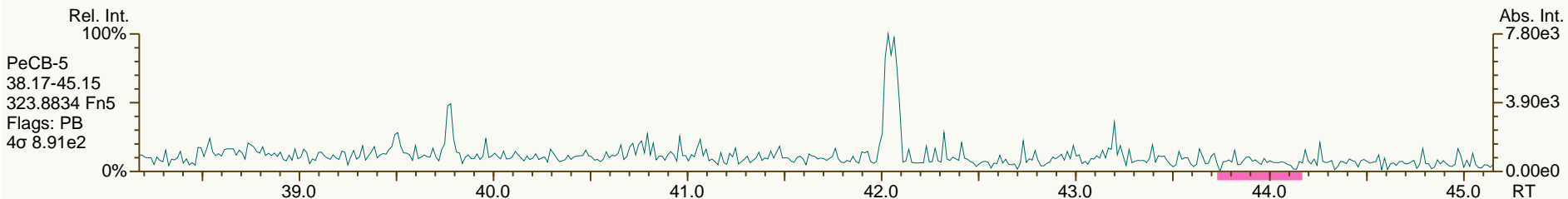
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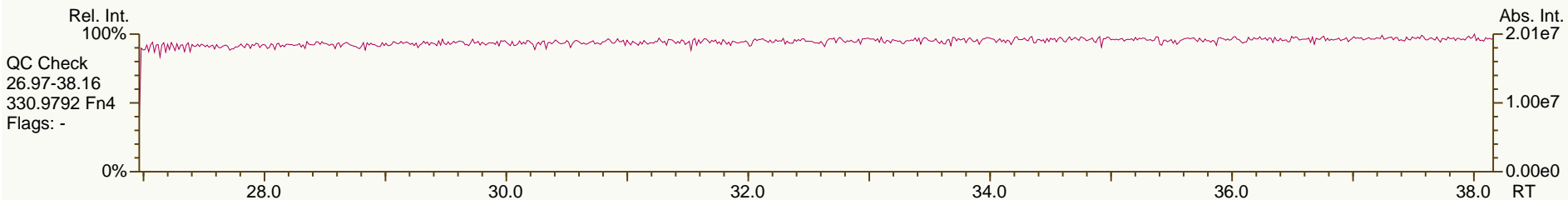
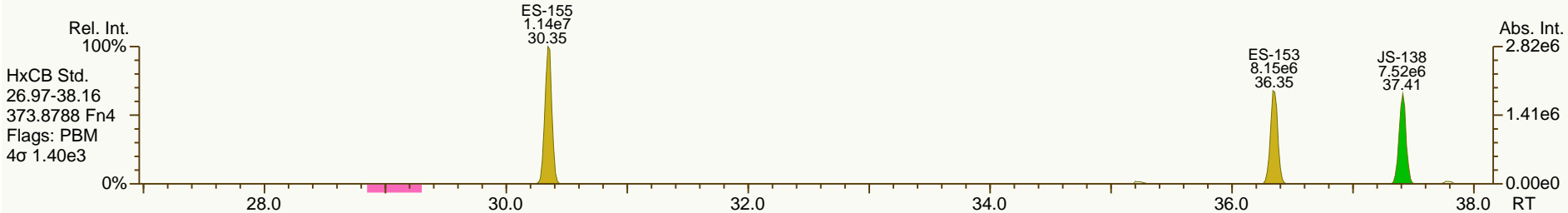
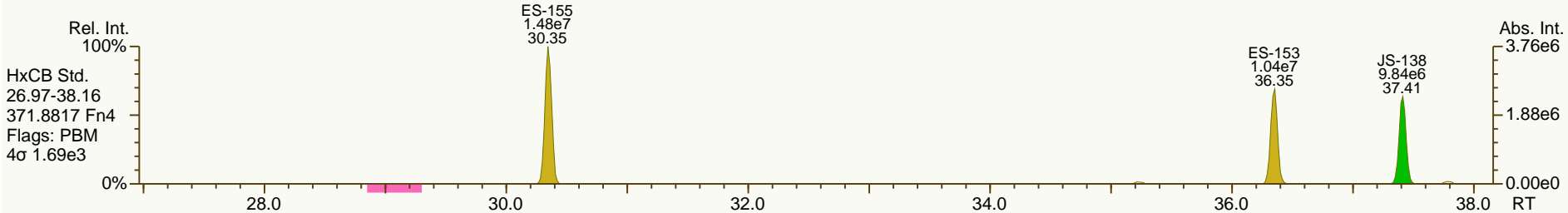
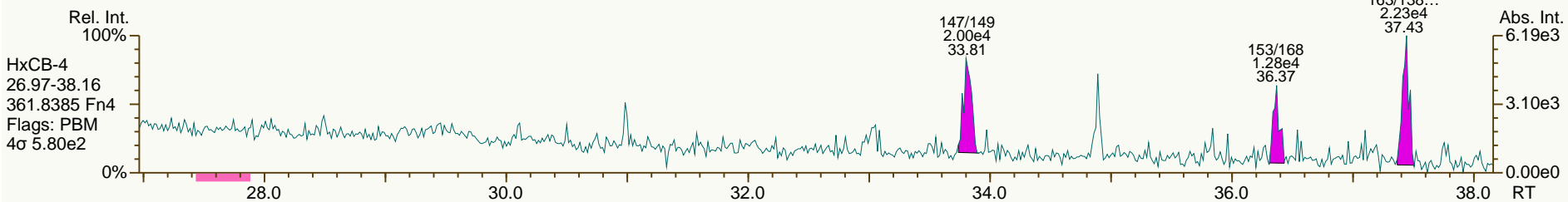
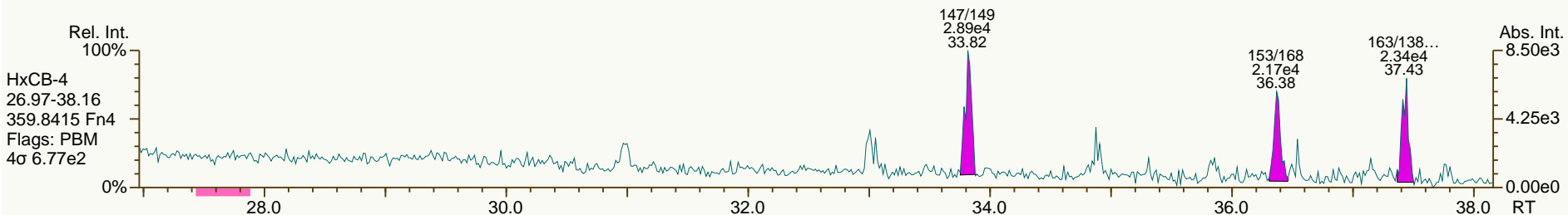
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SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 27-Mar-2014 04:28:49  
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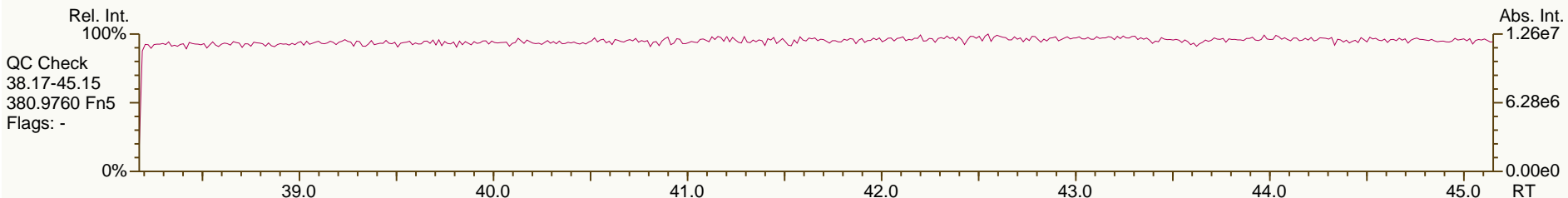
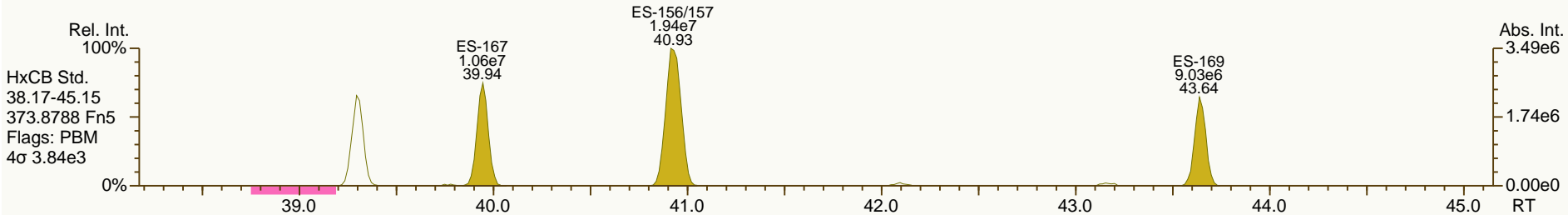
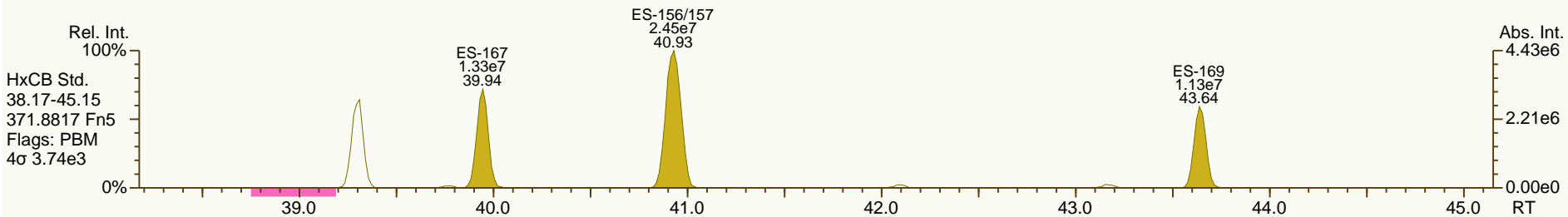
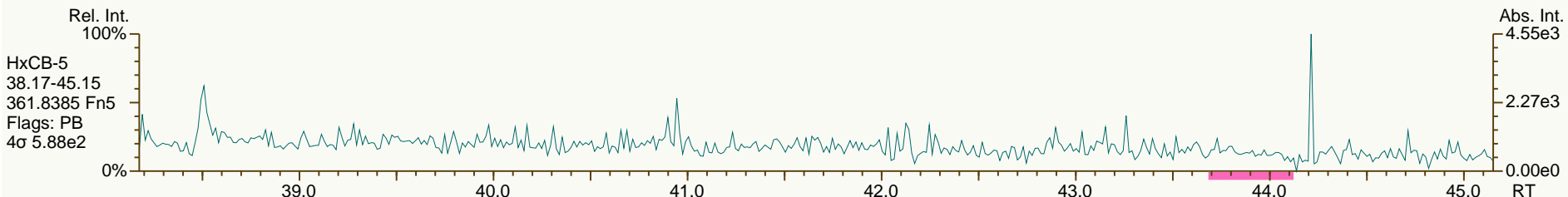
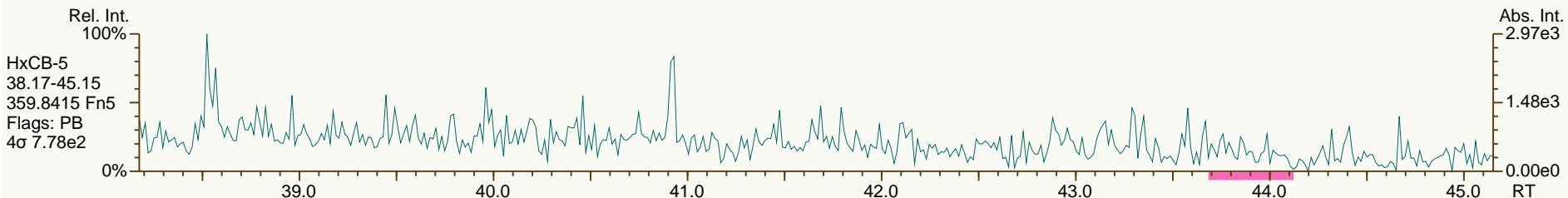




SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

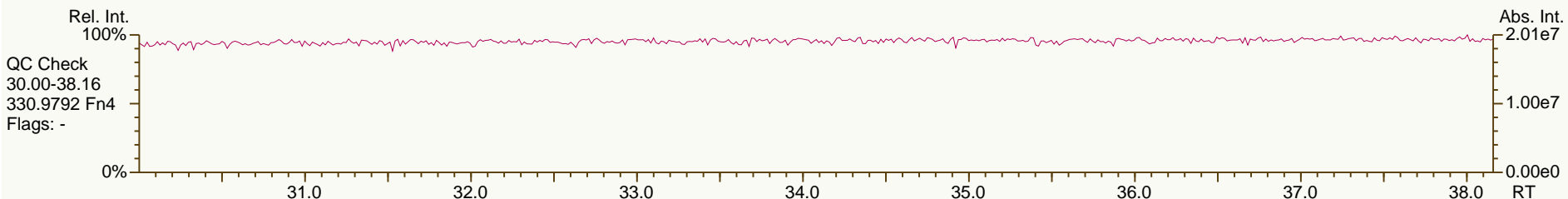
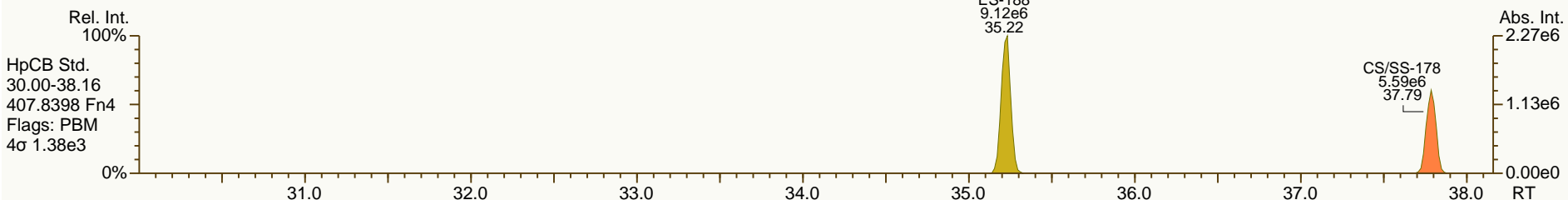
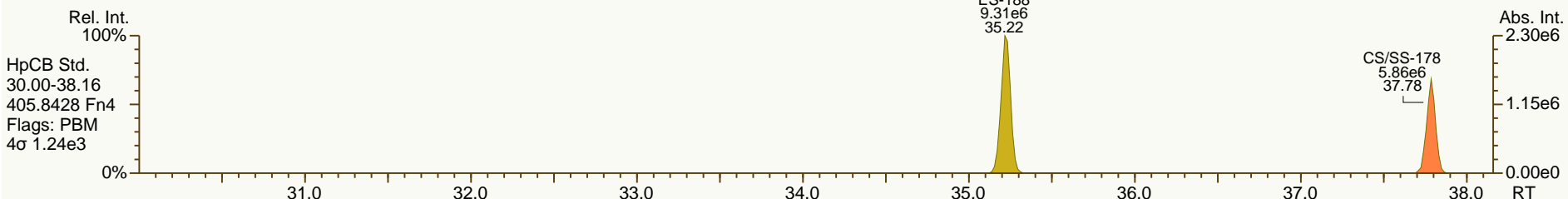
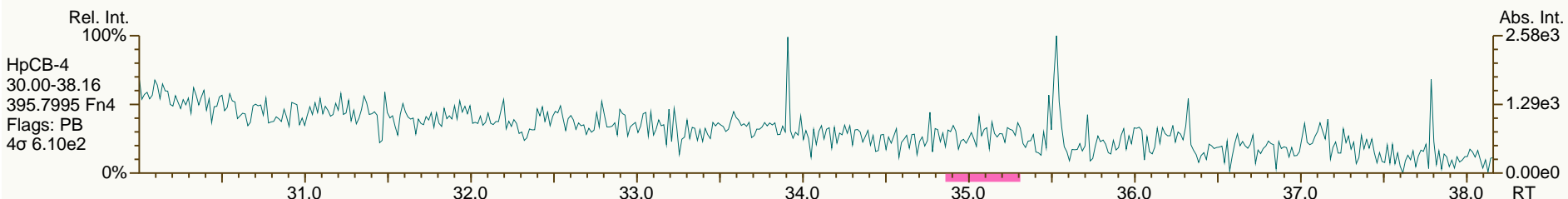
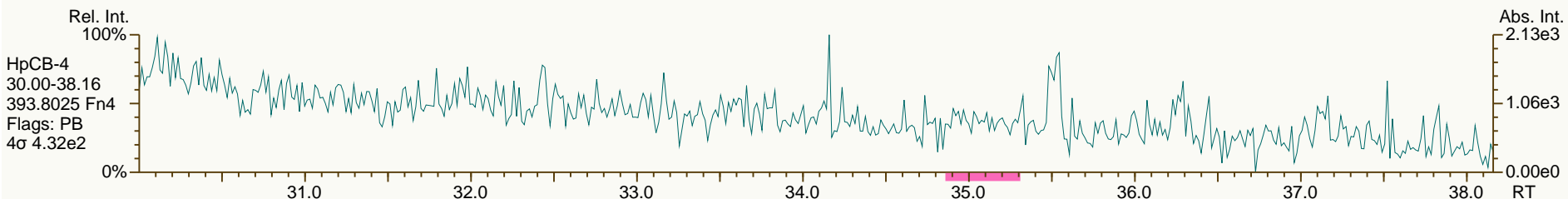
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SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

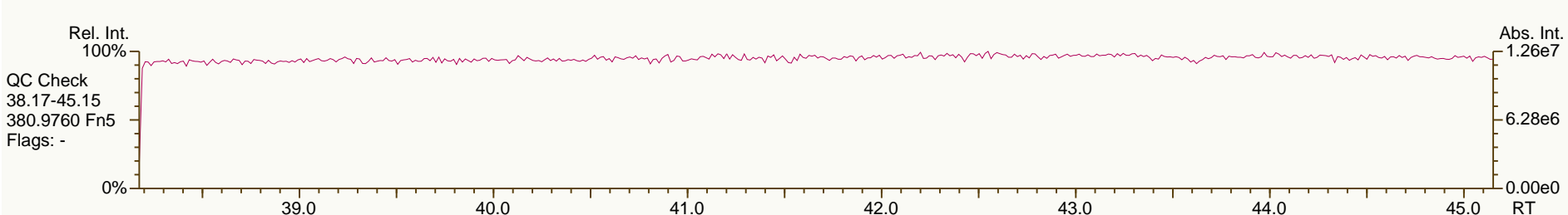
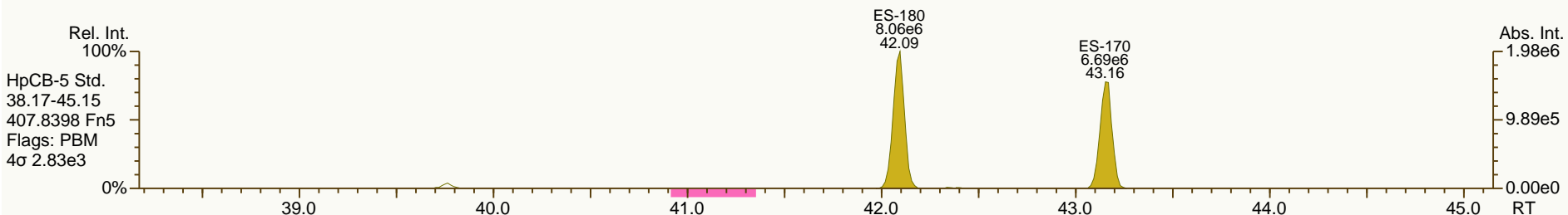
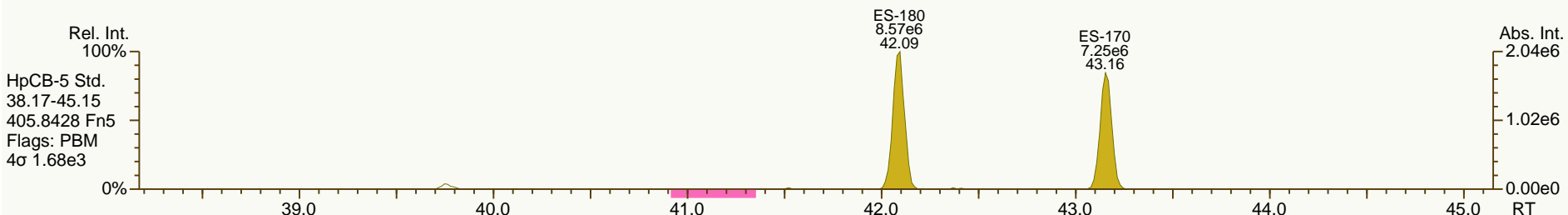
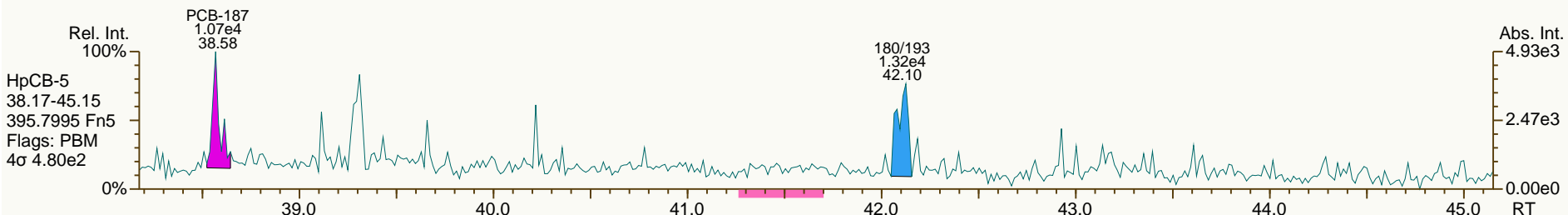
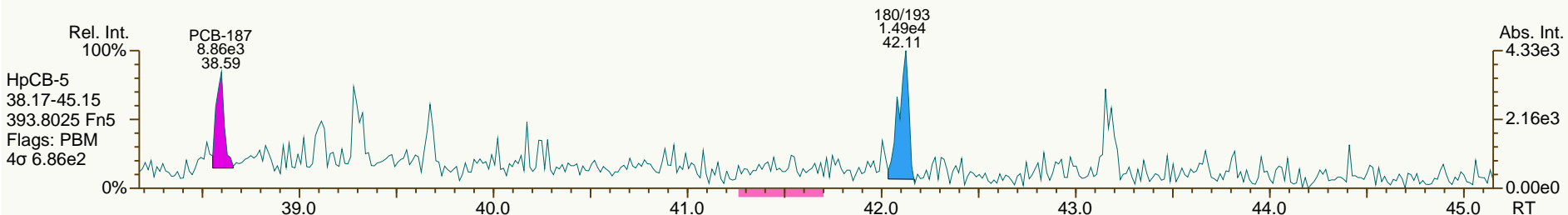
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SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

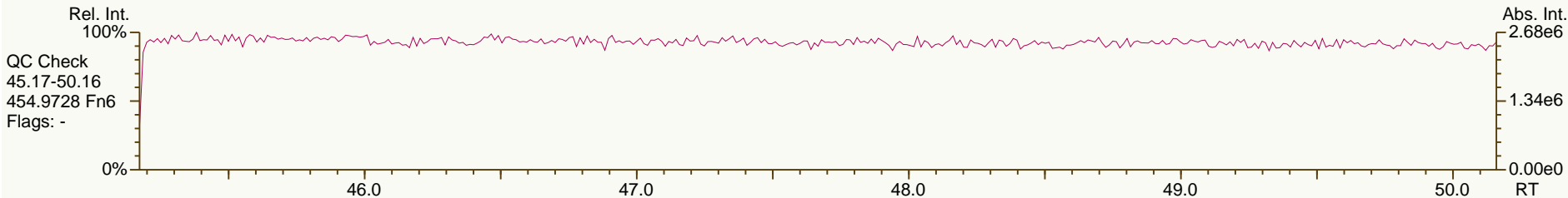
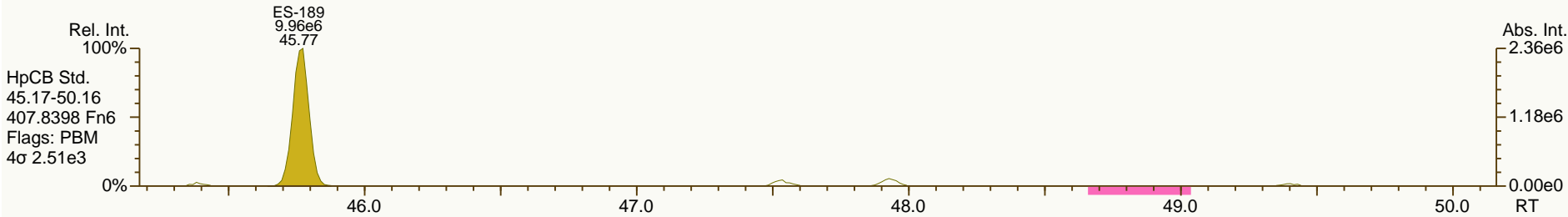
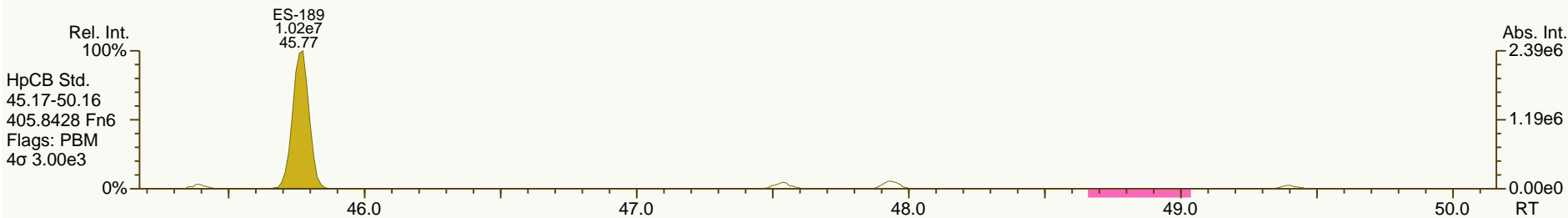
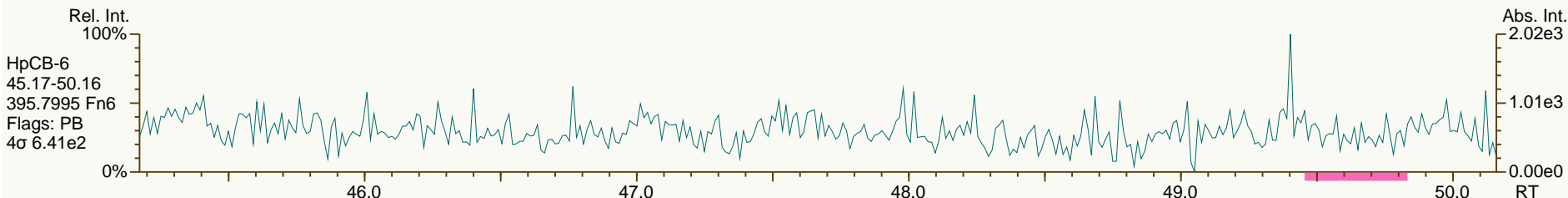
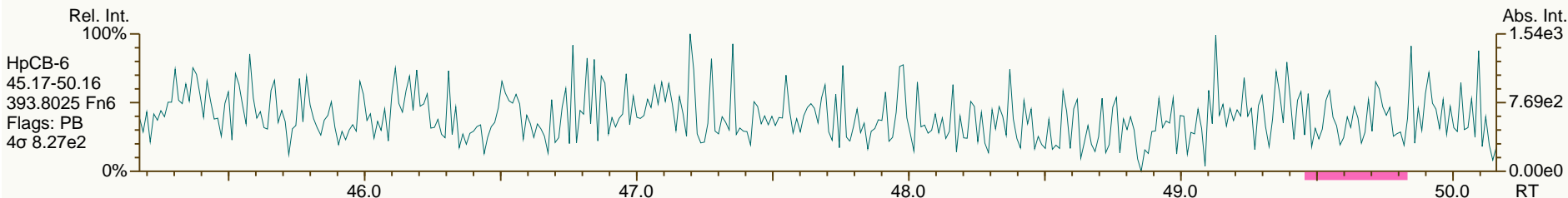
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SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

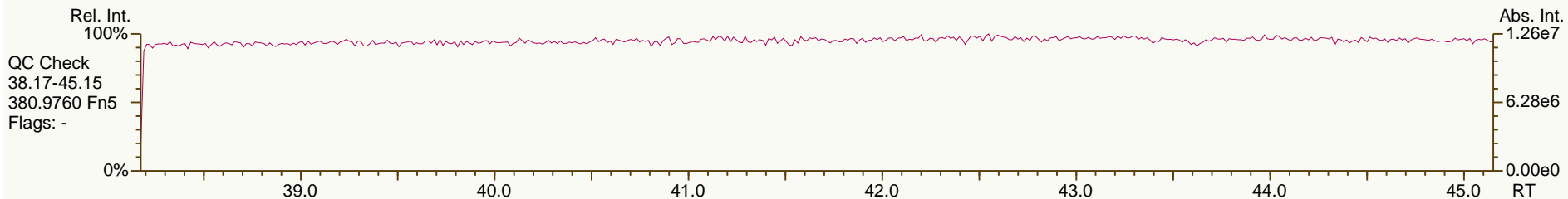
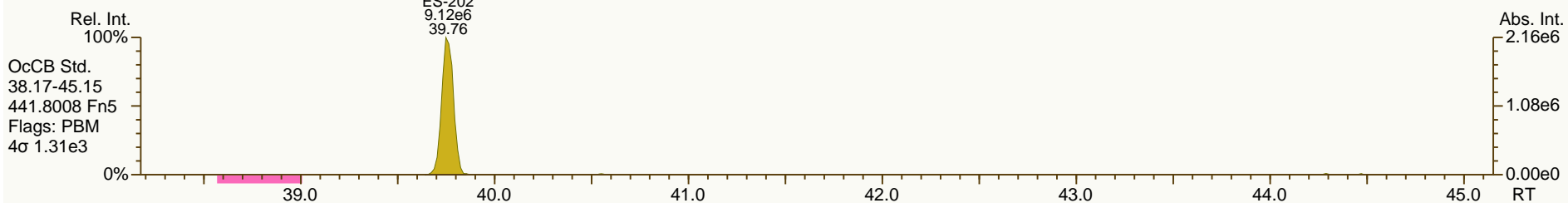
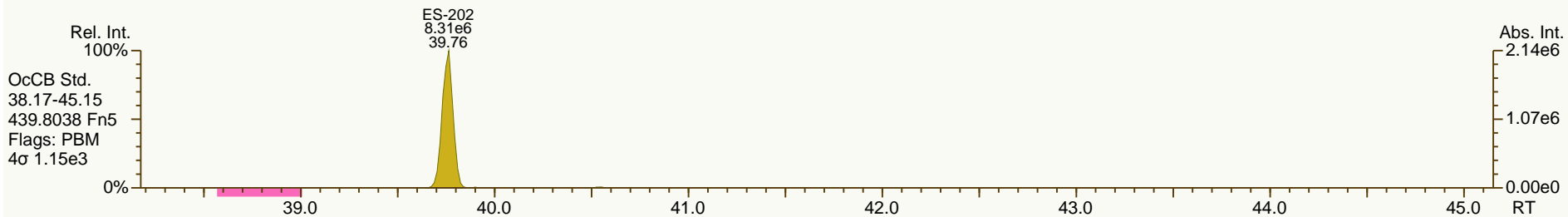
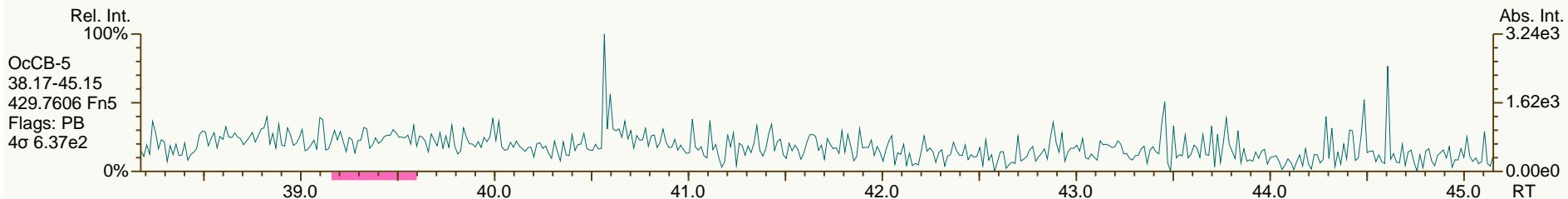
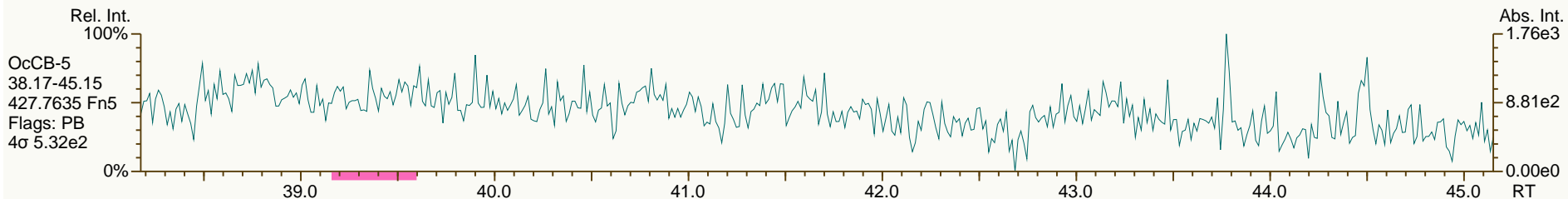
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SGS-AP ID: A6504\_11892\_PCB\_008  
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Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 27-Mar-2014 04:28:49  
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SGS-AP ID: A6504\_11892\_PCB\_008  
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Sample ID: EB1-01 (TOTAL)  
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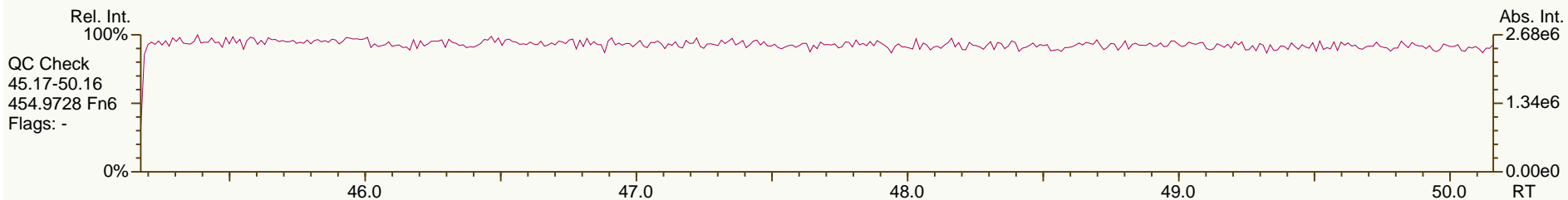
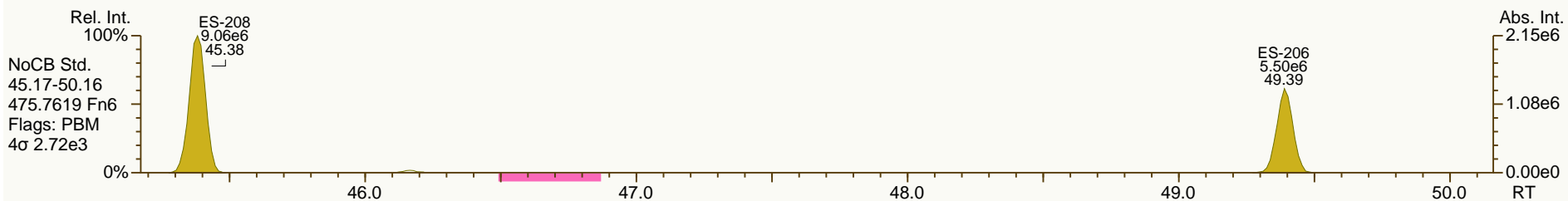
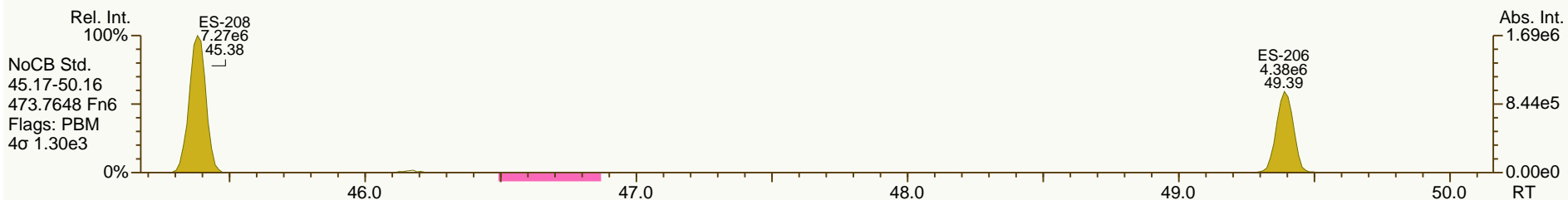
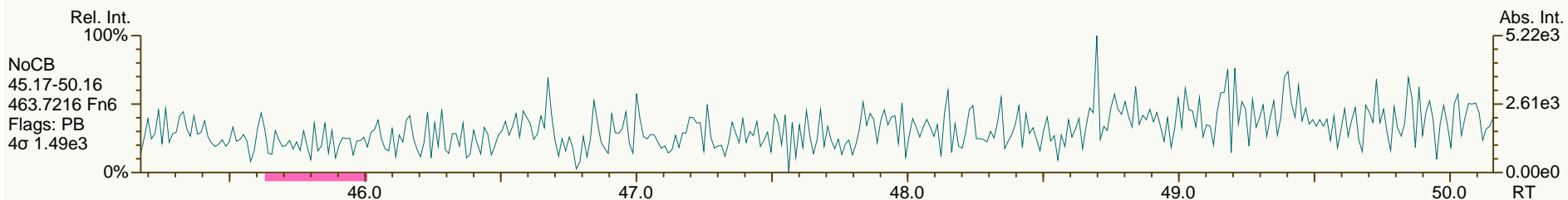
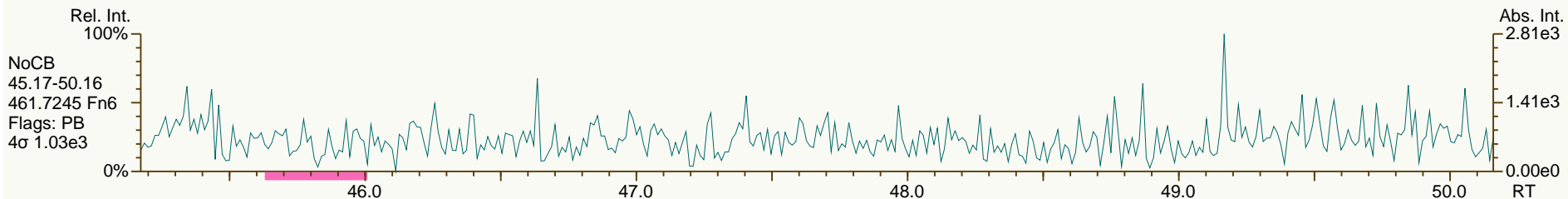
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SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
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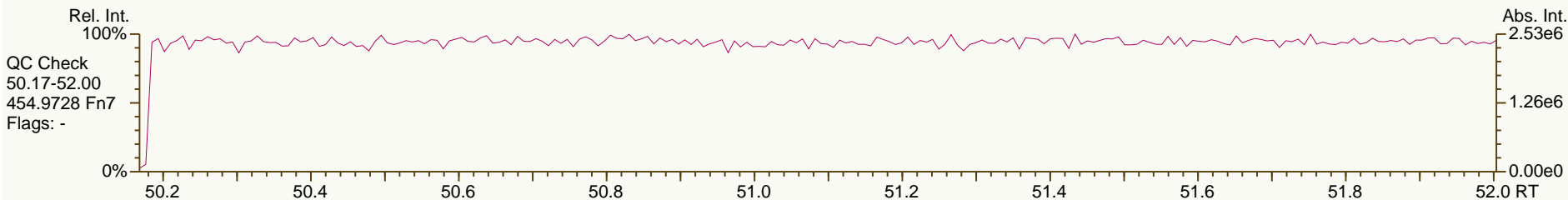
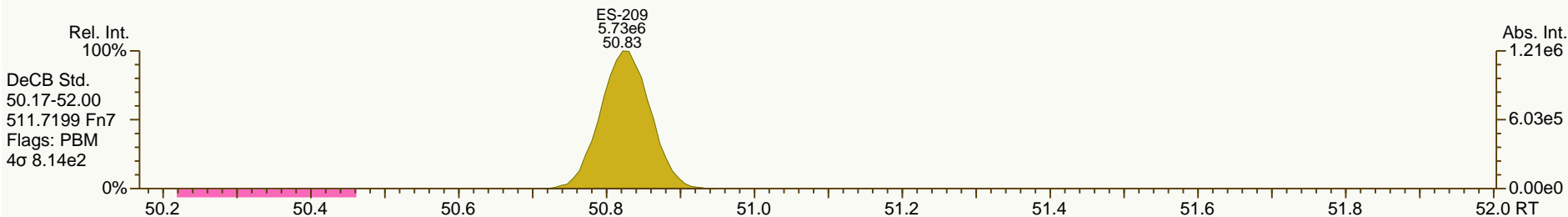
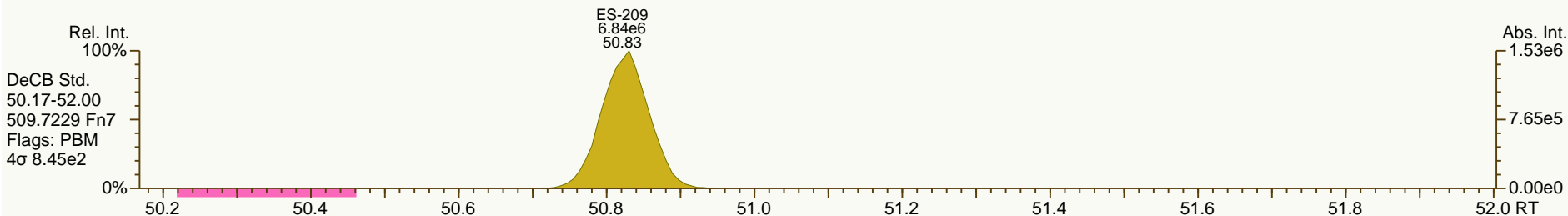
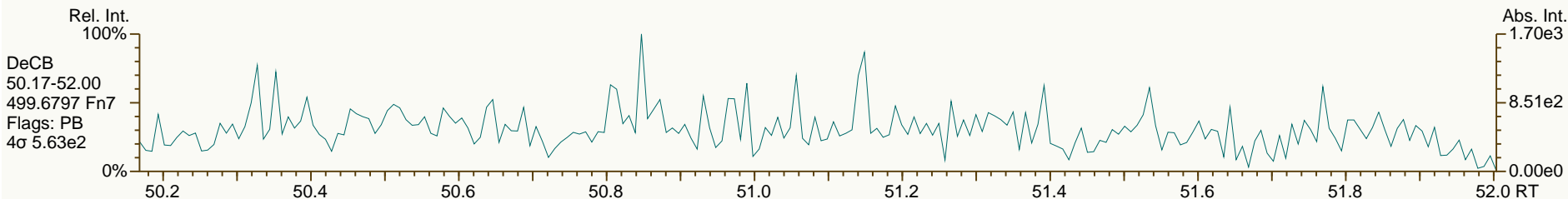
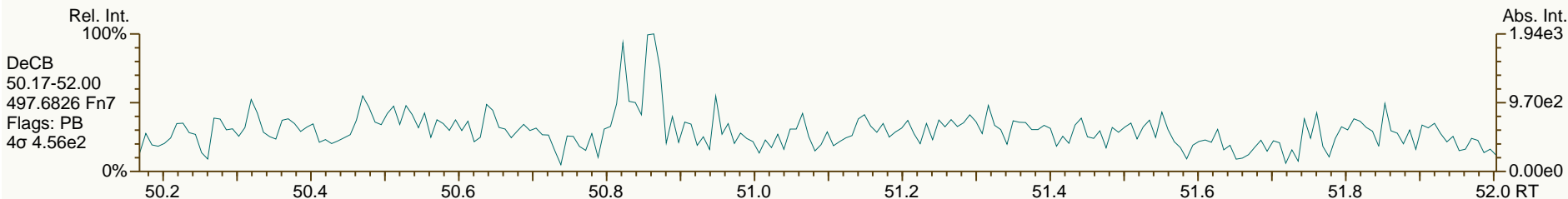
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SGS-AP ID: A6504\_11892\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 27-Mar-2014 04:28:49  
 User: LKB Datafile: 140326X16





Lab ID: A6504\_11892\_PCB\_009-RJ2

ACQ: 28-Mar-2014 14:24:30 LKB

Wt/Vol: 0.90 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XA

Client ID: EB1-01 (DISSOLVED)

UTP: 31-Mar-2014 18:44 CEM

J-level: 11.1 pg/L Split: 1

Checkcode: 477-807-FJT

Datafile: 140328X05

RPT: 31-Mar-2014 19:02 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	3.00E+03	1.37
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.00E+03	1.37
PCB-105 233'44'-PeCB	NotFnd		1.0007	-		0.00E+00		1.11	ND	1.65E+03	0.915
PCB-114 2344'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.20	ND	1.65E+03	0.82
PCB-118 23'44'5'-PeCB	34.75	J B EMPC	1.0006	1.0007	+0.2	3.38E+04	0.73	1.19	1.73	1.65E+03	0.852
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	1.65E+03	0.844
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	1.65E+03	1.05
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.42E+03	1.32
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.42E+03	0.815
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.42E+03	1.02
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.44E+03	1.08
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.05E+03	1.31
ES PCB-1	11.87		0.7244	0.7245	+0.1	3.66E+07	3.28	1.19	46.1 %	15%	150%
ES PCB-3	14.16		0.8639	0.8642	+0.3	4.18E+07	3.37	1.09	57.8 %	15%	150%
ES PCB-4	14.41		0.8794	0.8793	-0.1	2.27E+07	1.66	0.52	65.4 %	25%	150%
ES PCB-15	20.11		1.2273	1.2277	+0.5	6.14E+07	1.58	1.04	88.7 %	25%	150%
ES PCB-19	17.48		1.0673	1.0673	0	2.56E+07	1.04	0.51	76.1 %	25%	150%
ES PCB-37	26.43		1.0788	1.0792	+0.6	5.07E+07	1.10	1.66	87 %	25%	150%
ES PCB-54	20.39		0.8328	0.8326	-0.2	2.72E+07	0.77	0.86	90.1 %	25%	150%
ES PCB-77	32.75		1.3366	1.3372	+1.2	4.52E+07	0.82	1.38	93.1 %	25%	150%
ES PCB-81	32.28		1.3172	1.3178	+1.2	4.45E+07	0.80	1.37	92.8 %	25%	150%
ES PCB-104	25.36		0.8324	0.8322	-0.3	2.84E+07	1.65	0.80	108 %	25%	150%
ES PCB-105	35.73		1.1721	1.1725	+0.9	3.75E+07	1.61	1.20	95.5 %	25%	150%
ES PCB-114	35.19		1.1544	1.1547	+0.6	3.76E+07	1.60	1.22	94.7 %	25%	150%
ES PCB-118	34.72		1.1392	1.1394	+0.4	3.67E+07	1.62	1.16	97.1 %	25%	150%
ES PCB-123	34.44		1.1300	1.1302	+0.4	3.64E+07	1.58	1.19	94 %	25%	150%
ES PCB-126	38.34		1.2577	1.2582	+1.2	3.22E+07	1.55	1.03	96 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	2.67E+07	1.29	1.11	92.6 %	25%	150%
ES PCB-155	30.31		0.8113	0.8110	-0.5	3.87E+07	1.25	1.59	94.7 %	25%	150%
ES PCB-156/157	40.89		1.0940	1.0941	+0.2	6.38E+07	1.29	1.60	77.4 %	25%	150%
ES PCB-167	39.90		1.0677	1.0678	+0.2	3.44E+07	1.27	1.67	80 %	25%	150%
ES PCB-169	43.60		1.1666	1.1667	+0.3	2.91E+07	1.33	1.56	72.8 %	25%	150%
ES PCB-170	43.11		0.9080	0.9079	-0.3	1.97E+07	1.11	0.95	92.1 %	25%	150%
ES PCB-180	42.04		0.8855	0.8855	0	2.34E+07	1.08	1.14	91.4 %	25%	150%
ES PCB-188	35.18		0.7411	0.7409	-0.4	2.58E+07	1.11	0.94	107 %	25%	150%
ES PCB-189	45.72		0.9629	0.9629	0	2.97E+07	1.05	1.58	99.5 %	25%	150%
ES PCB-202	39.71		0.8365	0.8364	-0.2	2.48E+07	0.92	0.97	99.4 %	25%	150%
ES PCB-205	47.88		1.0084	1.0084	0	2.11E+07	0.89	1.24	89.8 %	25%	150%
ES PCB-206	49.34		1.0392	1.0392	0	1.46E+07	0.83	0.83	93.6 %	25%	150%
ES PCB-208	45.34		0.9548	0.9548	0	2.36E+07	0.80	1.17	107 %	25%	150%
ES PCB-209	50.77		1.0694	1.0693	-0.3	1.85E+07	1.18	1.11	88.3 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9339	0	5.70E+07	1.09	1.11	101 %	30%	135%
SS PCB-111	32.77		1.0750	1.0752	+0.4	3.95E+07	1.58	1.03	105 %	30%	135%
SS PCB-178	37.74		1.0100	1.0100	0	1.66E+07	1.07	0.62	104 %	30%	135%
CS PCB-28	22.87		0.9339	0.9339	0	5.70E+07	1.09	1.85	88.1 %	30%	135%
CS PCB-111	32.77		1.0750	1.0752	+0.4	3.95E+07	1.58	1.22	99.2 %	30%	135%
CS PCB-178	37.74		1.0100	1.0100	0	1.66E+07	1.07	0.58	111 %	30%	135%
JS PCB-9	16.38					6.65E+07	1.58				
JS PCB-52	24.49					3.51E+07	0.80				
JS PCB-101	30.47					3.26E+07	1.60				
JS PCB-138	37.37					2.57E+07	1.27				
JS PCB-194	47.48					1.89E+07	0.91				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	0	0	1.64		
						Di-CBs	11.6	11.6	2.57		
						Tri-CBs	16.8	23.1	2.54		
						Tetra-CBs	117	121	1.25		
						Penta-CBs	6.83	12	0.866		
						Hexa-CBs	4.86	4.86	0.935		
						Hepta-CBs	0	0	1.15		
						Octa-CBs	0	0	1.37		
						Nona-CBs	0	0	3.24		
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00	0.95		ND	4.09E+03	1.67
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00	1.18		ND	4.09E+03	1.38
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00	1.01		ND	4.09E+03	1.61
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00	1.23		ND	5.27E+03	3.07
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00	1.91		ND	5.27E+03	1.98
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00	0.96		ND	6.47E+03	2.2
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00	1.13		ND	6.47E+03	1.87
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00	1.06		ND	6.47E+03	1.99
PCB-5 23-DiCB	NotFnd		1.0433	-		0.00E+00	1.08		ND	6.47E+03	1.96
PCB-8 24'-DiCB	NotFnd		1.0505	-		0.00E+00	1.10		ND	6.47E+03	1.91
PCB-14 35-DiCB	NotFnd		0.9333	-		0.00E+00	1.26		ND	6.47E+03	1.68
PCB-11 33'-DiCB	19.55	B	0.9721	0.9722	+0.1	3.39E+05	1.79	1.06	11.6	6.47E+03	1.98
PCB-13/12 34' /34-DiCB	NotFnd	C	0.9866	-		0.00E+00	1.06		ND	6.47E+03	1.99
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00	1.02		ND	6.47E+03	2.07
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00	1.15		ND	5.36E+03	3.28
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1015	-		0.00E+00	1.56		ND	5.36E+03	2.42
PCB-17 22'4-TrCB	19.66	J	1.1244	1.1245	+0.1	9.12E+04	0.95	1.33	5.99	5.36E+03	2.84
PCB-27 23'6-TrCB	NotFnd		1.1354	-		0.00E+00	1.81		ND	5.36E+03	2.08
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00	1.72		ND	5.36E+03	2.18
PCB-16 22'3-TrCB	NotFnd		1.1485	-		0.00E+00	1.04		ND	5.36E+03	3.62

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1759	-		0.00E+00		1.93	ND	5.36E+03	1.95
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.33	ND	4.43E+03	1.46
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.35	ND	4.43E+03	1.44
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8382	-		0.00E+00		1.38	ND	4.43E+03	1.41
PCB-25 23'4-TrCB	22.34	J	0.8457	0.8452	-0.7	9.32E+04	1.05	1.37	2.98	4.43E+03	1.41
PCB-31 24'5-TrCB	22.62	J B	0.8562	0.8558	-0.5	9.96E+04	0.98	1.42	3.09	4.43E+03	1.37
PCB-28/20 244'/233'-TrCB	22.89	J B C	0.8669	0.8661	-1.1	1.41E+05	0.90	1.30	4.76	4.43E+03	1.49
PCB-21/33 234/23'4'-TrCB	23.09	J EMPC C	0.8738	0.8735	-0.4	1.33E+05	1.23	1.35	4.35	4.43E+03	1.44
PCB-22 234'-TrCB	23.46	J EMPC	0.8879	0.8875	-0.6	5.57E+04	1.30	1.26	1.95	4.43E+03	1.55
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.34	ND	4.43E+03	1.45
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.40	ND	4.43E+03	1.39
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.26	ND	4.43E+03	1.55
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.18	ND	4.43E+03	1.65
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	4.43E+03	1.8
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	1.63E+03	0.84
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9145	-		0.00E+00		0.97	ND	2.48E+03	1.31
PCB-45 22'36-TeCB	NotFnd		0.9385	-		0.00E+00		0.82	ND	2.48E+03	1.55
PCB-51 22'46'-TeCB	23.05		0.9414	0.9412	-0.3	1.02E+06	0.86	0.98	52.5	2.48E+03	1.3
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.78	ND	2.48E+03	1.63
PCB-52 22'55'-TeCB	24.51	J B EMPC	1.0009	1.0007	-0.3	7.45E+04	1.07	0.92	4.05	2.48E+03	1.37
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.23	ND	2.48E+03	1.03
PCB-43 22'35-TeCB	NotFnd		1.0100	-		0.00E+00		0.79	ND	2.48E+03	1.6
PCB-69/49 23'46/22'45'-TeCB	24.96	J B C	1.0181	1.0189	+1.2	5.53E+04	0.83	1.13	2.45	2.48E+03	1.12
PCB-48 22'45-TeCB	NotFnd		1.0296	-		0.00E+00		0.94	ND	2.48E+03	1.35
PCB-44/47/65 ...-TeCB	25.44	J B C	1.0384	1.0388	+0.6	4.38E+05	0.81	0.99	22.2	2.48E+03	1.28
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0497	-		0.00E+00		1.28	ND	2.48E+03	0.989
PCB-42 22'34'-TeCB	NotFnd		1.0563	-		0.00E+00		0.85	ND	2.48E+03	1.49
PCB-41 22'34-TeCB	NotFnd		1.0700	-		0.00E+00		0.77	ND	2.48E+03	1.66
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0738	-		0.00E+00		0.96	ND	2.48E+03	1.33
PCB-64 234'6-TeCB	NotFnd		1.0819	-		0.00E+00		1.35	ND	2.48E+03	0.936
PCB-72 23'55'-TeCB	NotFnd		0.8435	-		0.00E+00		1.36	ND	3.00E+03	1.13
PCB-68 23'45'-TeCB	27.48		0.8514	0.8513	-0.2	9.39E+05	0.80	1.42	33.1	3.00E+03	1.08
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.28	ND	3.00E+03	1.2
PCB-58 233'5'-TeCB	NotFnd		0.8692	-		0.00E+00		1.33	ND	3.00E+03	1.15
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.36	ND	3.00E+03	1.13
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.43	ND	3.00E+03	1.07
PCB-61/70/74/76 ...-TeCB	28.73	J B C	0.8901	0.8901	0	1.15E+05	0.77	1.29	4.48	3.00E+03	1.19
PCB-66 23'44'-TeCB	29.01	J	0.8988	0.8987	-0.2	6.06E+04	0.68	1.23	2.47	3.00E+03	1.24
PCB-55 233'4-TeCB	NotFnd		0.9033	-		0.00E+00		1.22	ND	3.00E+03	1.26
PCB-56 233'4'-TeCB	NotFnd		0.9168	-		0.00E+00		1.20	ND	3.00E+03	1.28
PCB-60 2344'-TeCB	NotFnd		0.9228	-		0.00E+00		1.20	ND	3.00E+03	1.27
PCB-80 33'55'-TeCB	NotFnd		0.9328	-		0.00E+00		1.43	ND	3.00E+03	1.07
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.36	ND	3.00E+03	1.12
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.14	ND	3.00E+03	1.34
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.38E+03	0.709
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.18	ND	1.38E+03	0.861
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		1.03	ND	1.65E+03	0.997
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.87	ND	1.65E+03	1.18

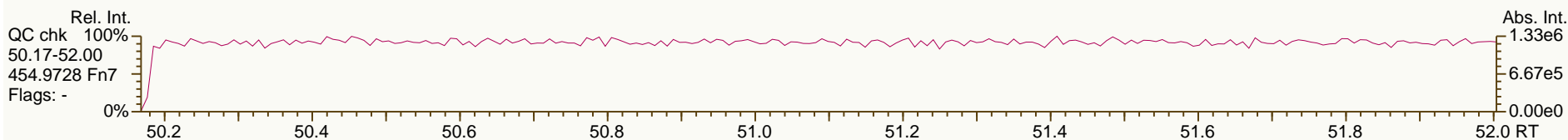
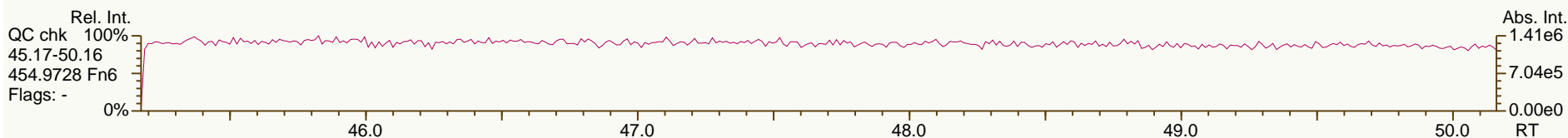
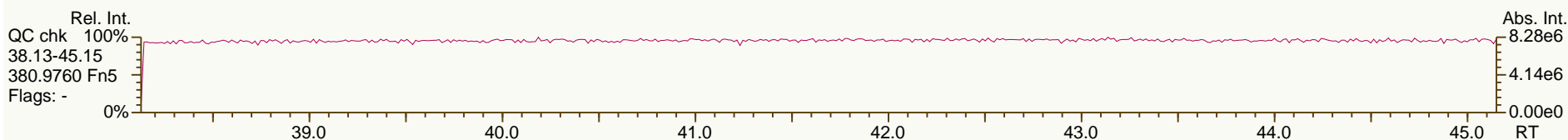
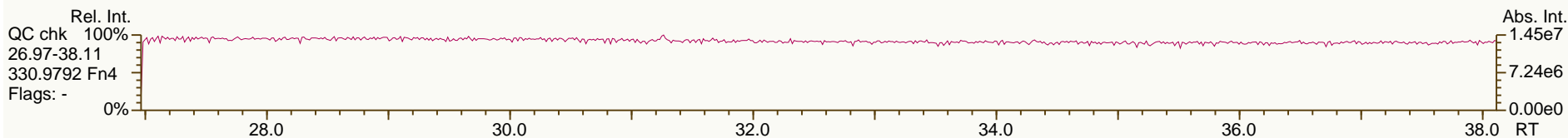
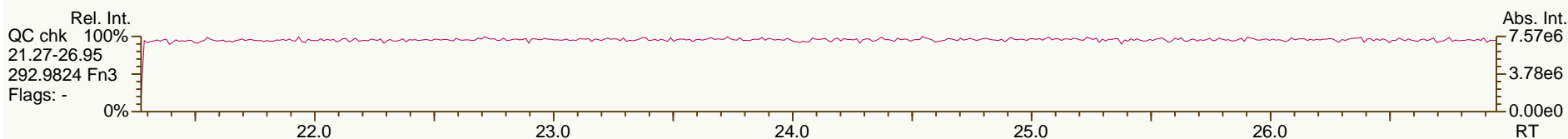
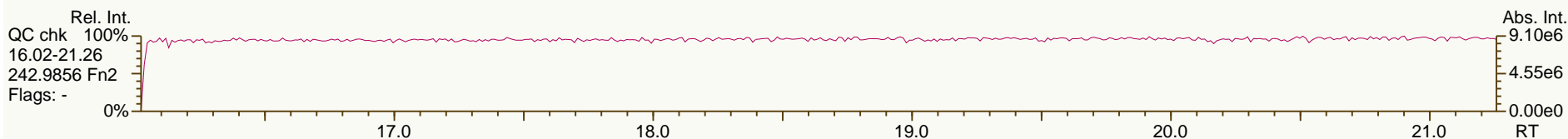
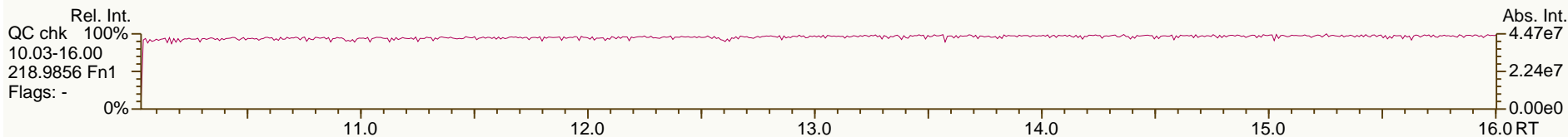
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96	J B EMPC	0.9176	0.9174	-0.3	5.14E+04	0.48	0.91	3.45	1.65E+03	1.12
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.93	ND	1.65E+03	1.11
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		1.09	ND	1.65E+03	0.942
PCB-98 22'34'6'-PeCB	NotFnd		0.9304	-		0.00E+00		0.78	ND	1.65E+03	1.3
PCB-88 22'346-PeCB	NotFnd		0.9404	-		0.00E+00		0.85	ND	1.65E+03	1.21
PCB-91 22'34'6-PeCB	NotFnd		0.9425	-		0.00E+00		0.99	ND	1.65E+03	1.03
PCB-84 22'33'6-PeCB	NotFnd		0.9487	-		0.00E+00		0.78	ND	1.65E+03	1.32
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.81	ND	1.65E+03	1.26
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.31	ND	1.65E+03	0.782
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.89	ND	1.65E+03	1.16
PCB-113/90/101 ...-PeCB	30.48	J B C	0.9999	1.0003	+0.7	5.60E+04	0.67	1.03	3.32	1.65E+03	0.99
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.76	ND	1.65E+03	1.35
PCB-99 22'44'5-PeCB	NotFnd		1.0173	-		0.00E+00		0.96	ND	1.65E+03	1.07
PCB-112 233'56-PeCB	NotFnd		1.0207	-		0.00E+00		1.25	ND	1.65E+03	0.82
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0320	-		0.00E+00		1.03	ND	1.65E+03	0.997
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.09	ND	1.65E+03	0.936
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0525	-		0.00E+00		0.93	ND	1.65E+03	1.1
PCB-110 233'4'6-PeCB	32.20	J B	1.0563	1.0565	+0.4	6.53E+04	0.59	1.14	3.51	1.65E+03	0.898
PCB-115 2344'6-PeCB	NotFnd		1.0592	-		0.00E+00		1.22	ND	1.65E+03	0.837
PCB-82 22'33'4-PeCB	NotFnd		1.0656	-		0.00E+00		0.73	ND	1.65E+03	1.4
PCB-111 233'55'-PeCB	NotFnd		1.0758	-		0.00E+00		1.25	ND	1.65E+03	0.818
PCB-120 23'455'-PeCB	NotFnd		1.0888	-		0.00E+00		1.27	ND	1.65E+03	0.808
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.12	ND	1.65E+03	0.915
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.26	ND	1.65E+03	0.809
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.11	ND	1.65E+03	0.925
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.03	ND	1.65E+03	0.955
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.14	ND	1.65E+03	0.893
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.26E+03	0.588
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.08	ND	1.26E+03	0.69
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.08	ND	1.26E+03	0.689
PCB-136 22'33'66'-HxCB	NotFnd		1.0207	-		0.00E+00		0.99	ND	1.26E+03	0.75
PCB-145 22'3466'-HxCB	NotFnd		1.0297	-		0.00E+00		1.03	ND	1.26E+03	0.722
PCB-148 22'34'56'-HxCB	NotFnd		1.0715	-		0.00E+00		1.14	ND	1.26E+03	0.914
PCB-151/135 ...-HxCB	NotFnd	C	1.0886	-		0.00E+00		1.10	ND	1.26E+03	0.946
PCB-154 22'44'56'-HxCB	NotFnd		1.0955	-		0.00E+00		1.30	ND	1.26E+03	0.8
PCB-144 22'345'6-HxCB	NotFnd		1.1042	-		0.00E+00		1.11	ND	1.26E+03	0.931
PCB-147/149 ...-HxCB	33.77	J B C	1.1142	1.1142	0	3.37E+04	1.34	1.10	2.57	1.26E+03	0.943
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.79	ND	1.26E+03	1.31
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.13	ND	1.26E+03	0.915
PCB-139/140 ...-HxCB	NotFnd	C	1.1313	-		0.00E+00		1.14	ND	1.26E+03	0.913
PCB-131 22'33'46-HxCB	NotFnd		1.1370	-		0.00E+00		0.95	ND	1.26E+03	1.09
PCB-142 22'3456-HxCB	NotFnd		1.1418	-		0.00E+00		0.94	ND	1.26E+03	1.11
PCB-132 22'33'46'-HxCB	NotFnd		1.1495	-		0.00E+00		0.97	ND	1.26E+03	1.07
PCB-133 22'33'55'-HxCB	NotFnd		1.1628	-		0.00E+00		1.04	ND	1.26E+03	0.995
PCB-165 233'55'6-HxCB	NotFnd		0.9524	-		0.00E+00		1.32	ND	1.26E+03	0.788
PCB-146 22'34'55'-HxCB	NotFnd		0.9582	-		0.00E+00		1.14	ND	1.26E+03	0.906
PCB-161 233'45'6-HxCB	NotFnd		0.9614	-		0.00E+00		1.43	ND	1.26E+03	0.726
PCB-153/168 ...-HxCB	36.33	J B C	0.9728	0.9721	-1.5	3.77E+04	1.37	1.38	2.29	1.26E+03	0.754

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9767	-		0.00E+00		1.00	ND	1.26E+03	1.04
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.90	ND	1.26E+03	1.15
PCB-137 22'344'5-HxCB	NotFnd		0.9912	-		0.00E+00		1.12	ND	1.26E+03	0.925
PCB-164 233'4'5'6-HxCB	NotFnd		0.9934	-		0.00E+00		1.34	ND	1.26E+03	0.773
PCB-163/138/129 ...-HxCB	NotFnd	C	1.0011	-		0.00E+00		1.10	ND	1.26E+03	0.947
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.27	ND	1.26E+03	0.815
PCB-158 233'44'6-HxCB	NotFnd		1.0096	-		0.00E+00		1.48	ND	1.26E+03	0.701
PCB-128/166 ...-HxCB	NotFnd	C	0.9640	-		0.00E+00		0.88	ND	1.42E+03	1.07
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.08	ND	1.42E+03	0.879
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.07	ND	1.42E+03	0.887
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.21E+03	0.837
PCB-179 22'33'566'-HpCB	NotFnd		1.0086	-		0.00E+00		1.07	ND	1.21E+03	0.992
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.21E+03	1.03
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.13	ND	1.21E+03	0.937
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.04	ND	1.21E+03	1.02
PCB-178 22'33'55'6-HpCB	NotFnd		1.0733	-		0.00E+00		0.74	ND	1.21E+03	1.43
PCB-175 22'33'45'6-HpCB	NotFnd		1.0888	-		0.00E+00		1.11	ND	1.38E+03	1.26
PCB-187 22'34'55'6-HpCB	NotFnd		1.0953	-		0.00E+00		1.20	ND	1.38E+03	1.17
PCB-182 22'344'56'-HpCB	NotFnd		1.1003	-		0.00E+00		1.22	ND	1.38E+03	1.15
PCB-183 22'344'5'6-HpCB	NotFnd		1.1101	-		0.00E+00		1.28	ND	1.38E+03	1.1
PCB-185 22'3455'6-HpCB	NotFnd		1.1125	-		0.00E+00		1.06	ND	1.38E+03	1.33
PCB-174 22'33'456'-HpCB	NotFnd		1.1156	-		0.00E+00		1.00	ND	1.38E+03	1.4
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1263	-		0.00E+00		0.98	ND	1.38E+03	1.42
PCB-181 22'344'56-HpCB	NotFnd		1.1362	-		0.00E+00		1.11	ND	1.38E+03	1.26
PCB-171/173 ...-HpCB	NotFnd	C	1.1414	-		0.00E+00		0.96	ND	1.38E+03	1.45
PCB-172 22'33'455'-HpCB	NotFnd		0.9079	-		0.00E+00		1.00	ND	1.38E+03	1.4
PCB-192 233'455'6-HpCB	NotFnd		0.9133	-		0.00E+00		1.31	ND	1.38E+03	1.07
PCB-180/193 ...-HpCB	NotFnd	C	0.9193	-		0.00E+00		1.26	ND	1.38E+03	1.11
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.36	ND	1.38E+03	1.03
PCB-170 22'33'44'5-HpCB	NotFnd		0.9434	-		0.00E+00		1.09	ND	1.38E+03	1.43
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.52	ND	1.38E+03	1.03
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.31E+03	1.18
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.10	ND	1.31E+03	1.13
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.31E+03	1.2
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0395	-		0.00E+00		1.13	ND	1.31E+03	1.1
PCB-200 22'33'4566'-OcCB	NotFnd		1.0418	-		0.00E+00		1.04	ND	1.31E+03	1.19
PCB-198/199 ...-OcCB	NotFnd	C	1.1002	-		0.00E+00		0.70	ND	1.31E+03	1.78
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1147	-		0.00E+00		0.74	ND	1.31E+03	1.67
PCB-203 22'344'55'6-OcCB	NotFnd		1.1189	-		0.00E+00		0.78	ND	1.31E+03	1.6
PCB-195 22'33'44'56-OcCB	NotFnd		0.9516	-		0.00E+00		0.82	ND	1.50E+03	2.03
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.84	ND	1.50E+03	1.98
PCB-205 233'44'55'6-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.50E+03	1.57
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.84E+03	2.53
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.15	ND	2.84E+03	2.48
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.84E+03	3.94

SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

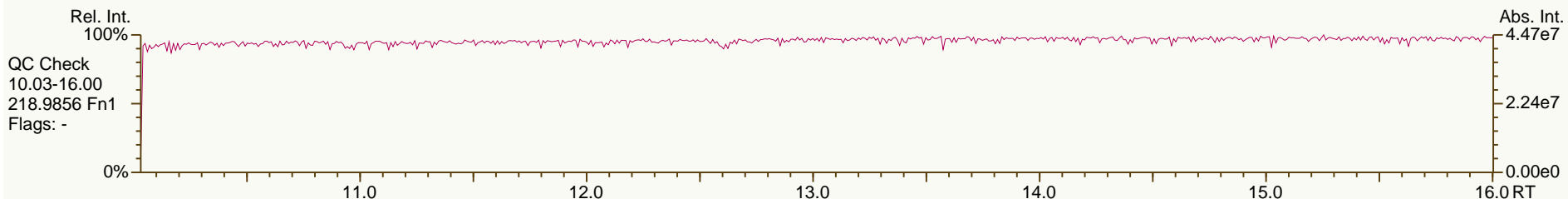
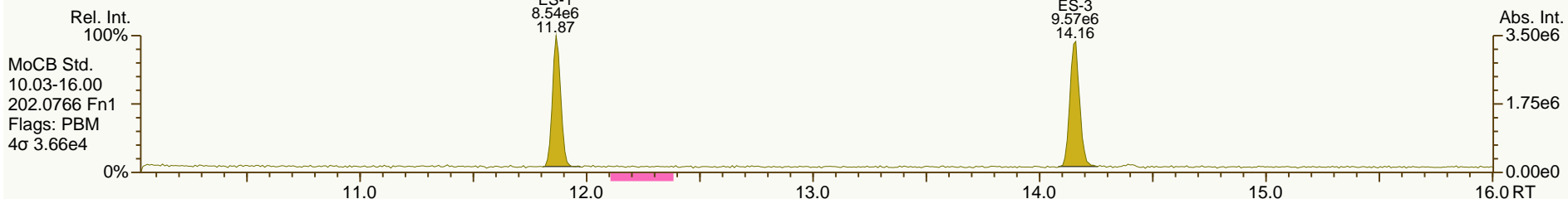
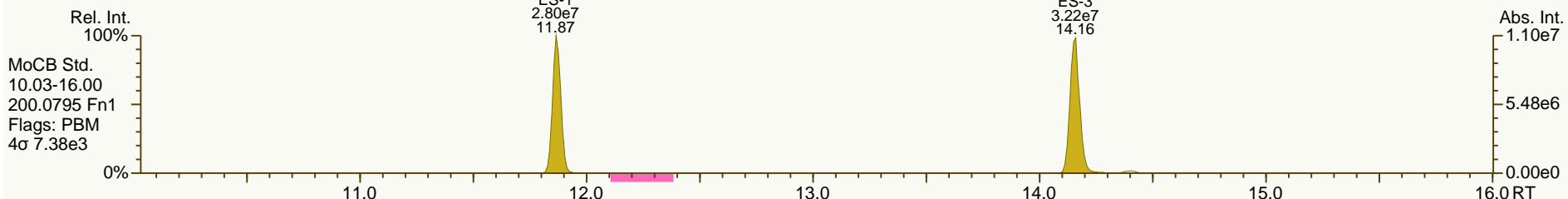
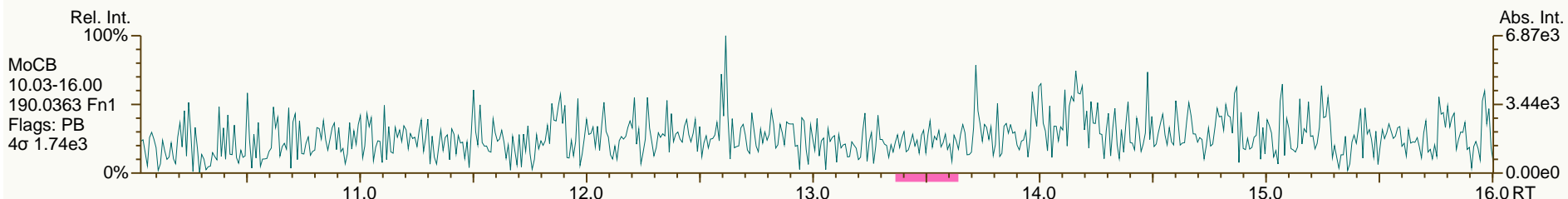
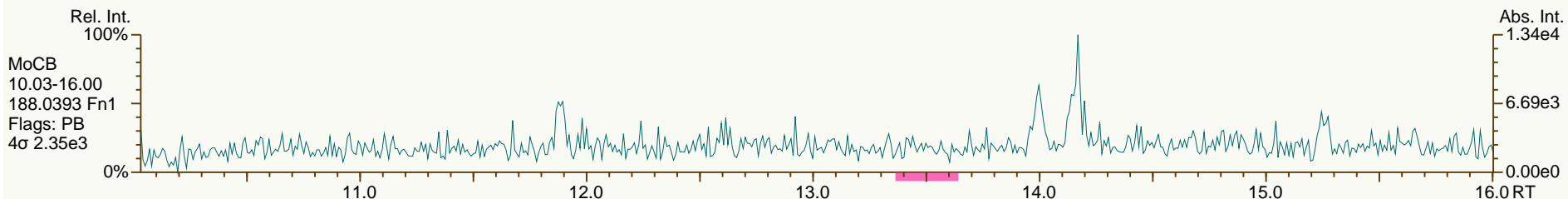
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SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

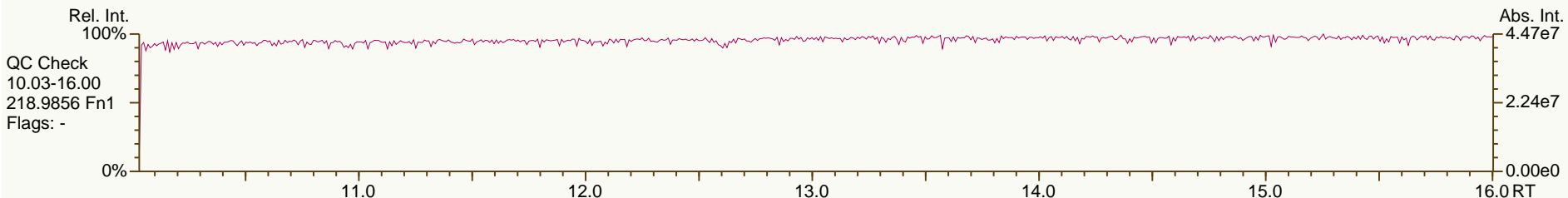
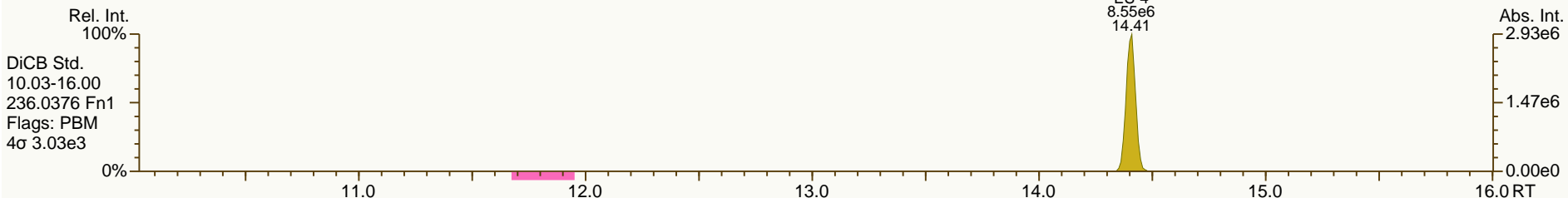
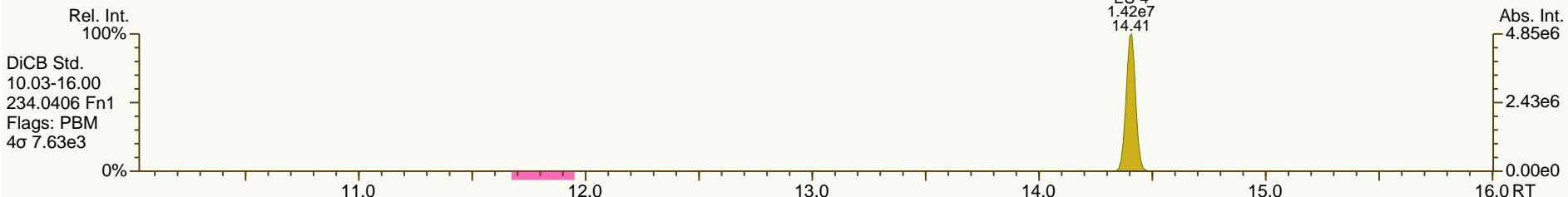
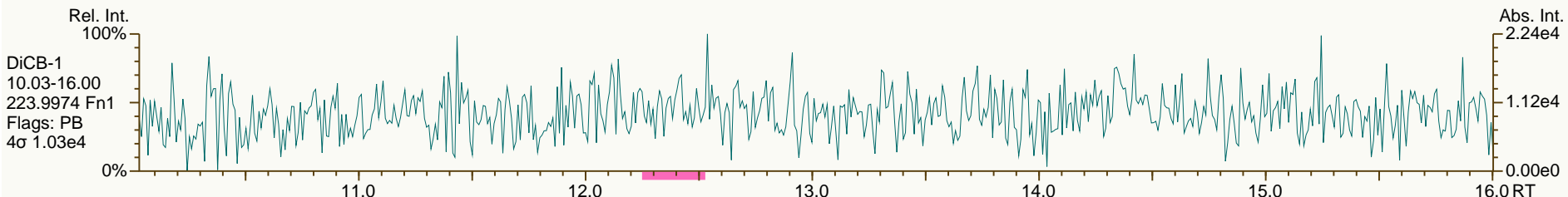
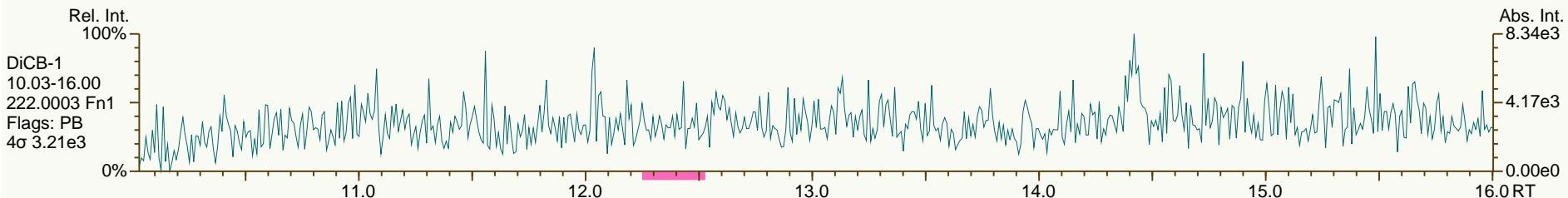
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SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
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Sample ID: EB1-01 (DISSOLVED)  
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Acq: 28-Mar-2014 14:24:30  
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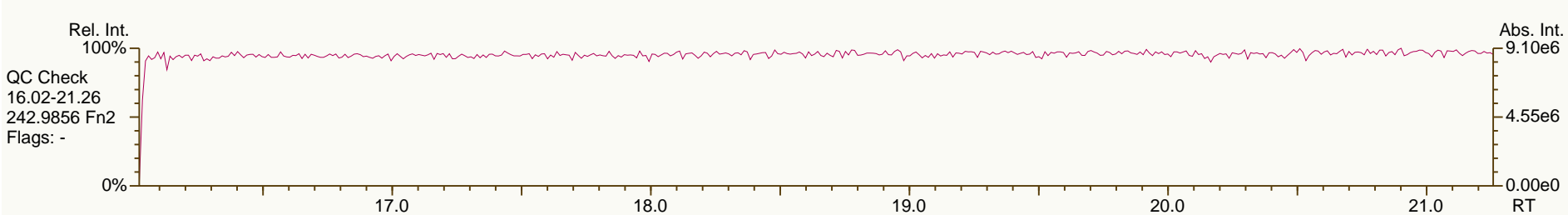
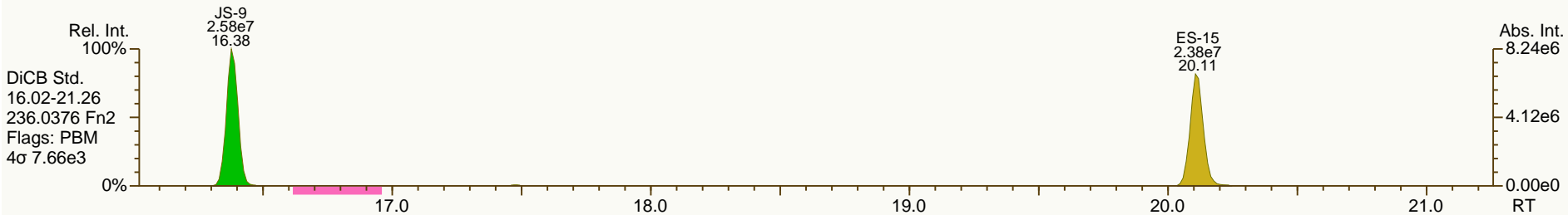
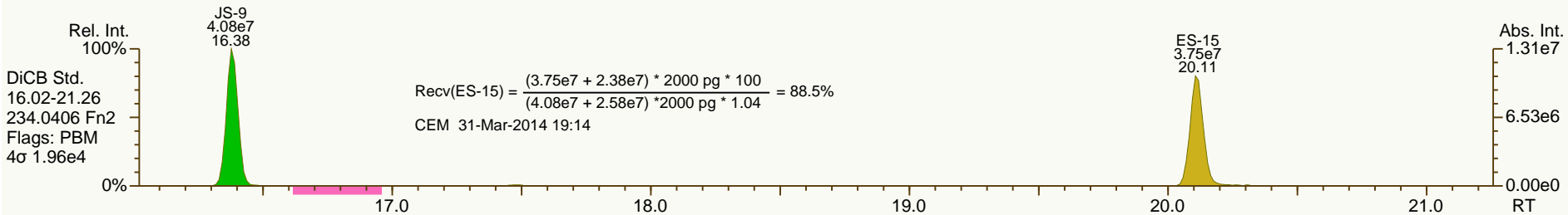
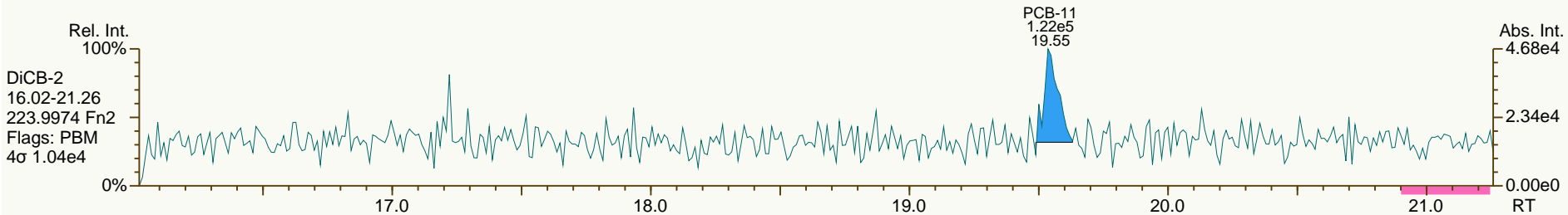
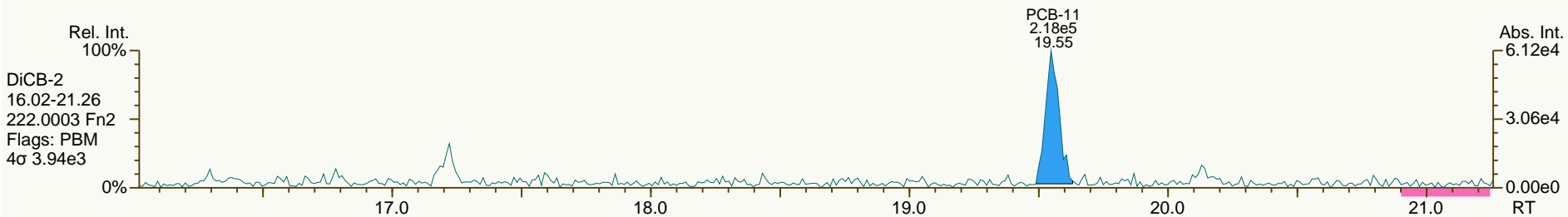




SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
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Sample ID: EB1-01 (DISSOLVED)  
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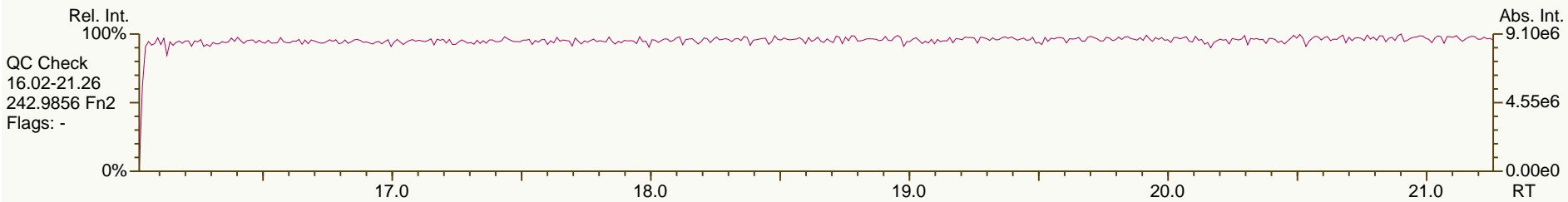
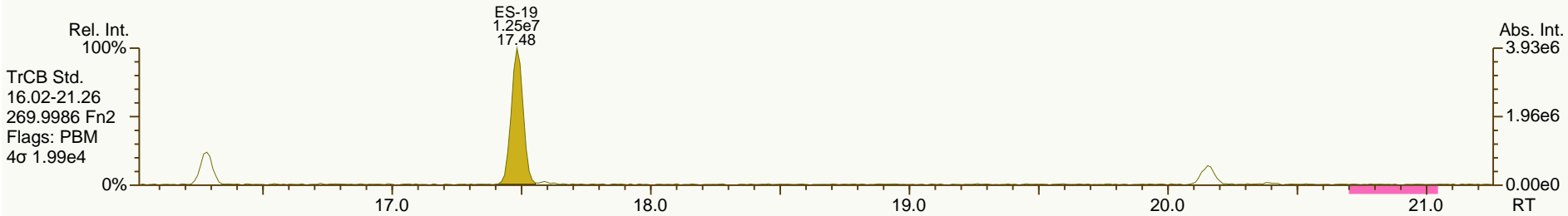
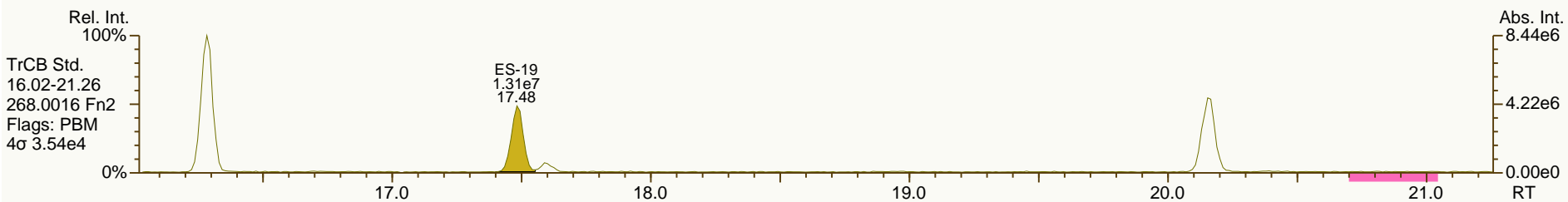
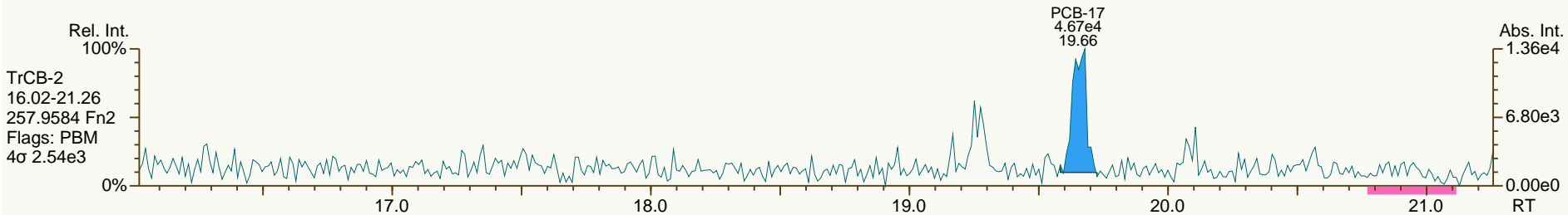
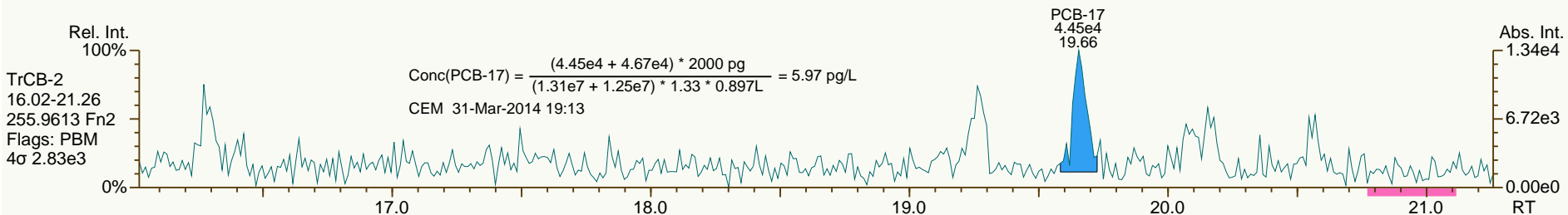
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SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
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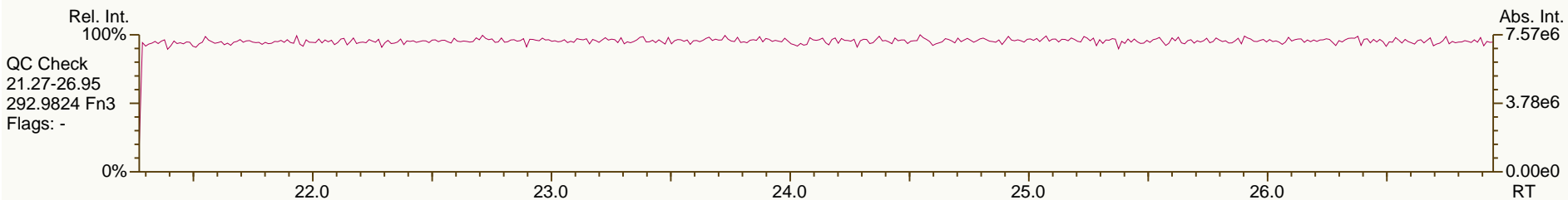
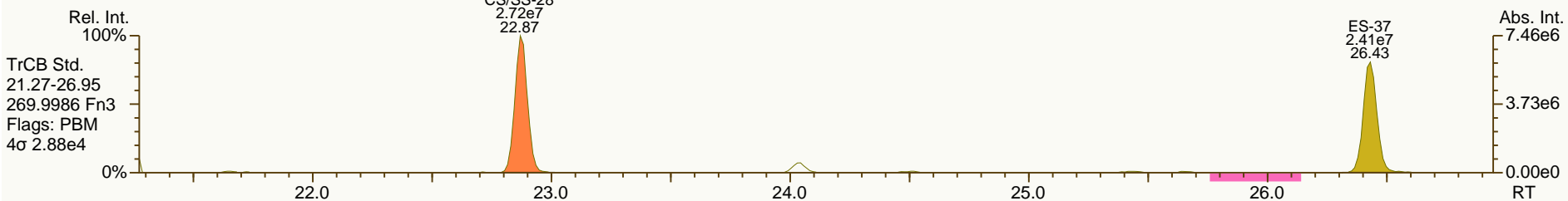
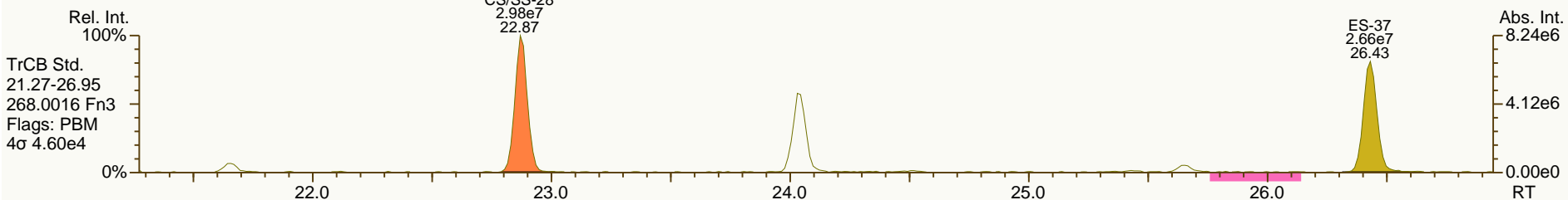
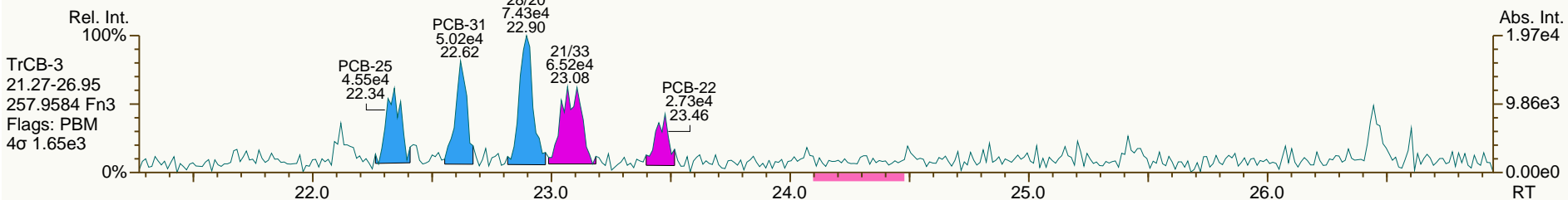
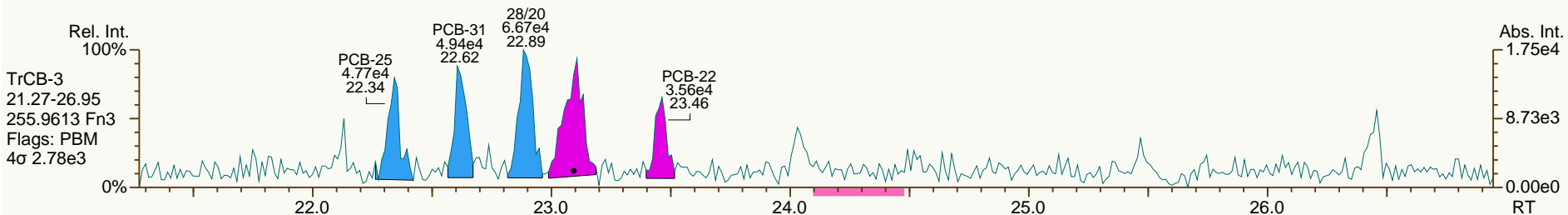
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SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
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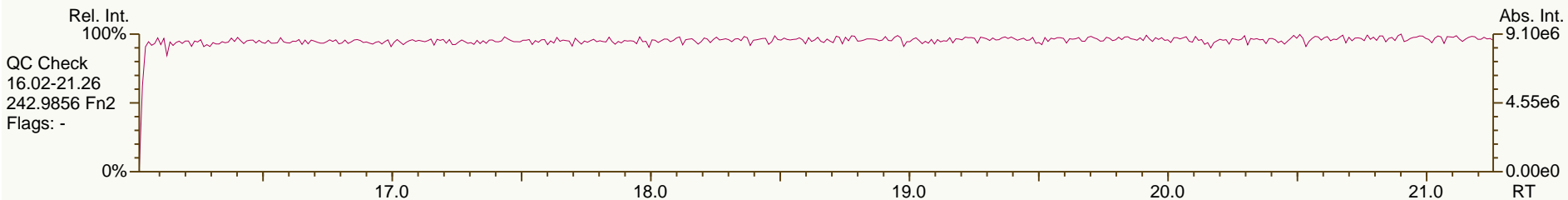
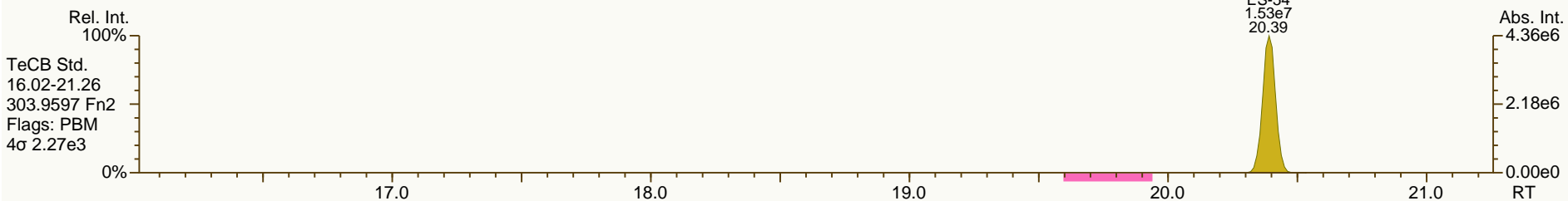
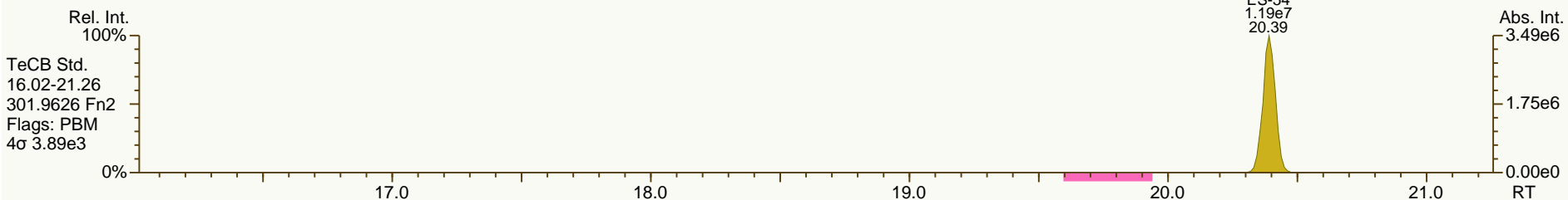
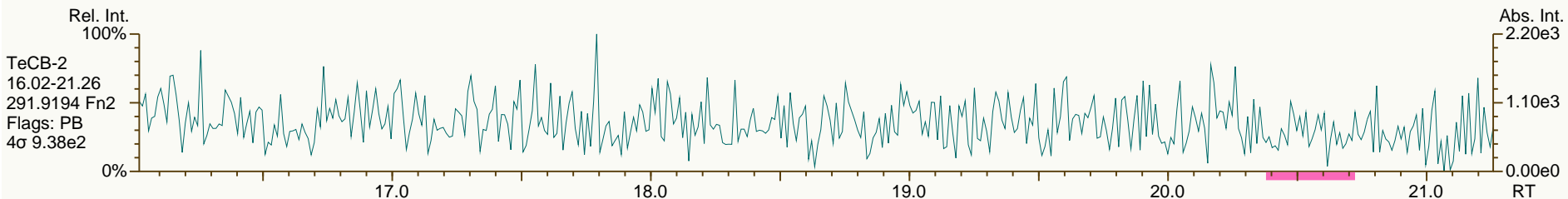
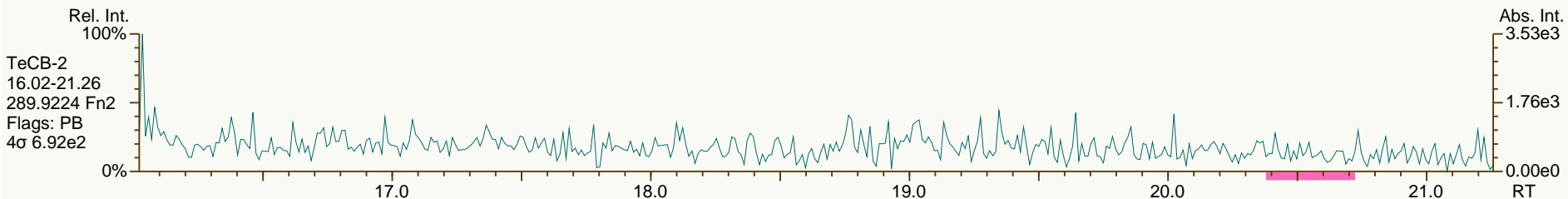
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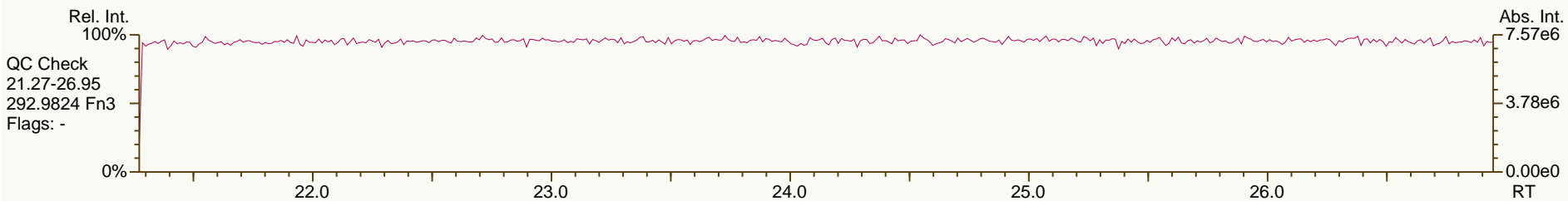
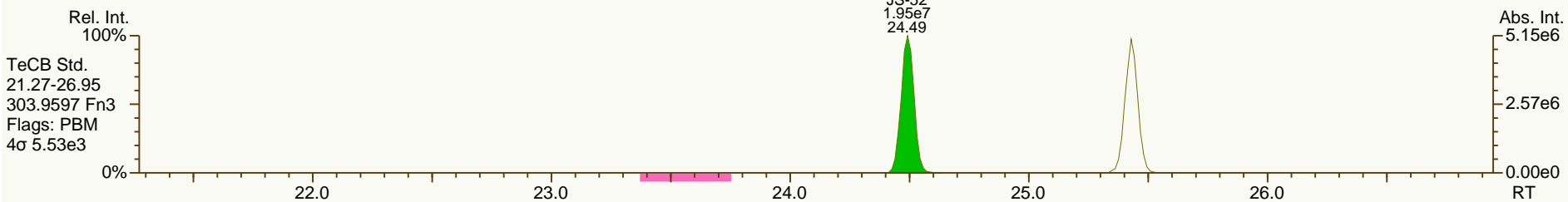
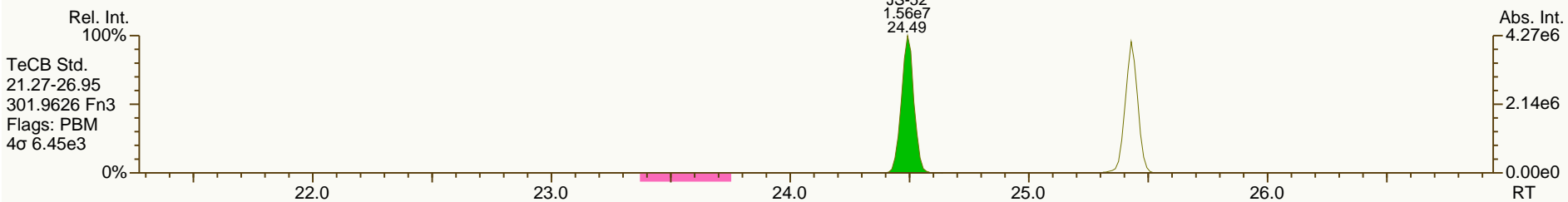
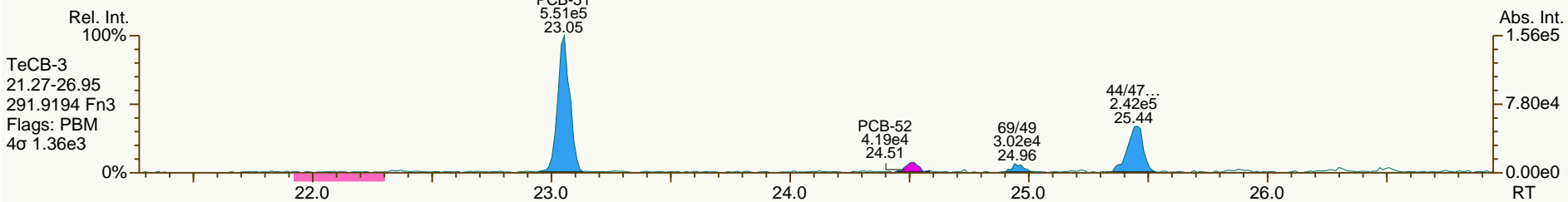
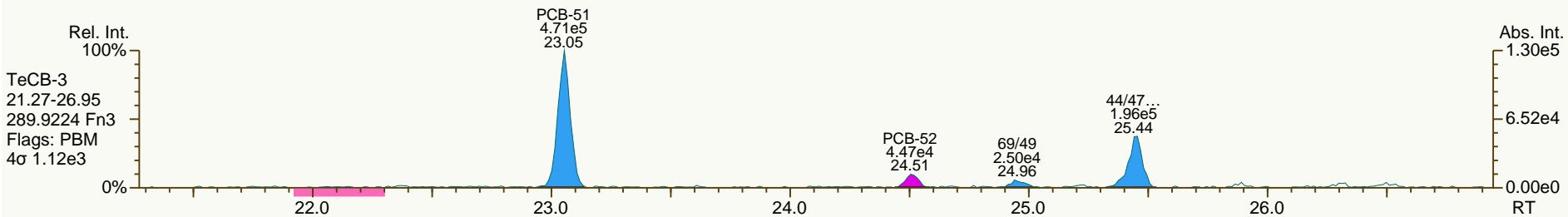
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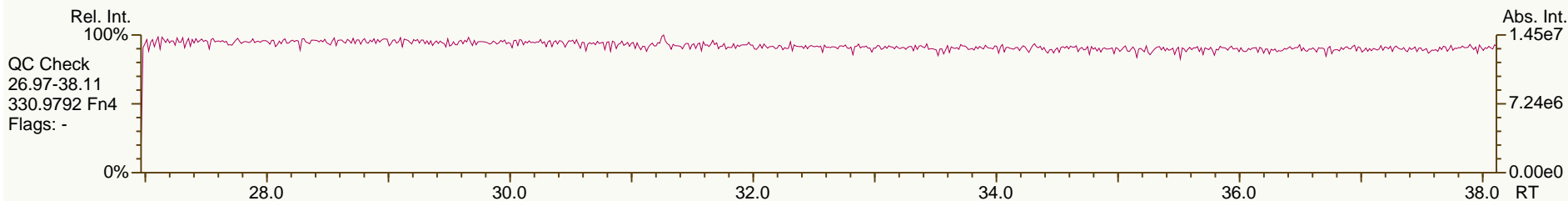
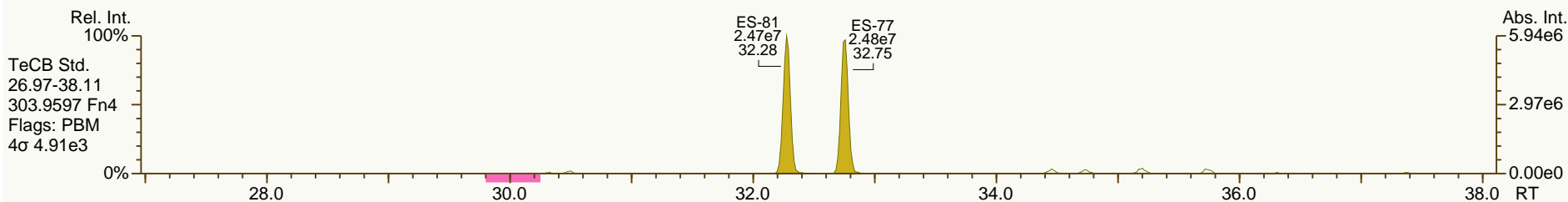
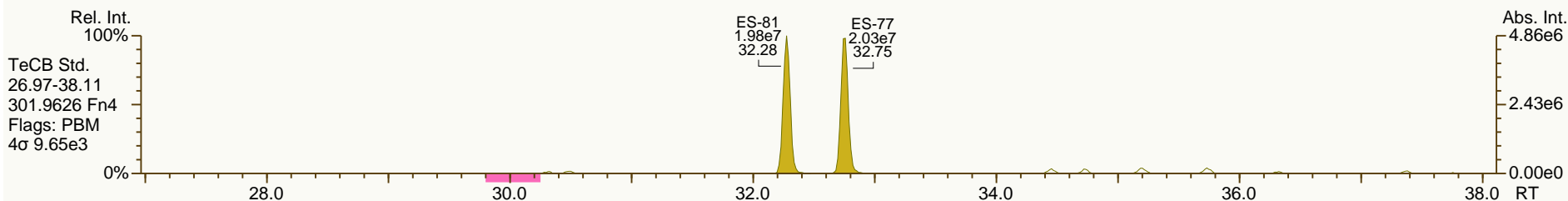
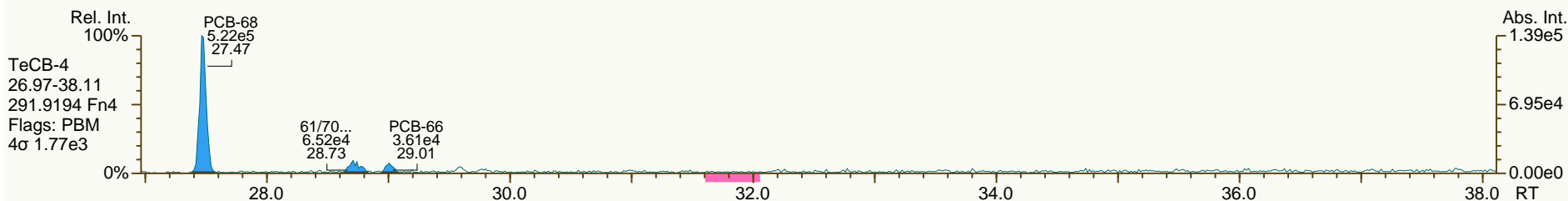
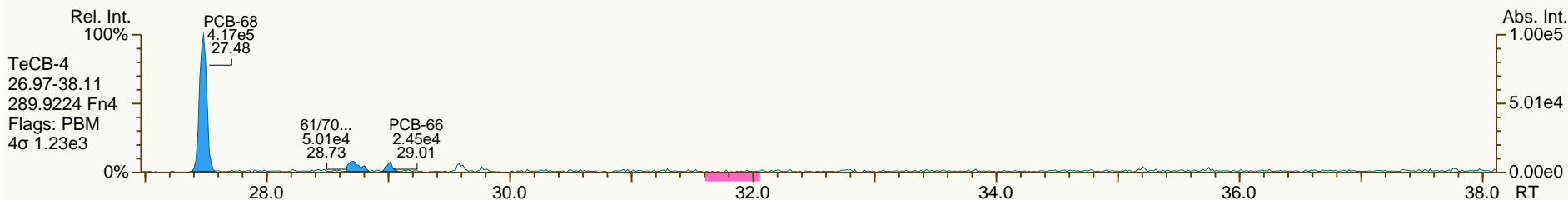
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SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
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Sample ID: EB1-01 (DISSOLVED)  
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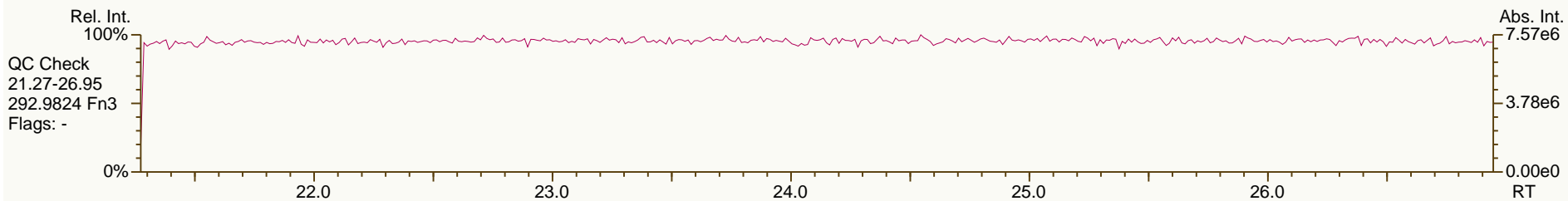
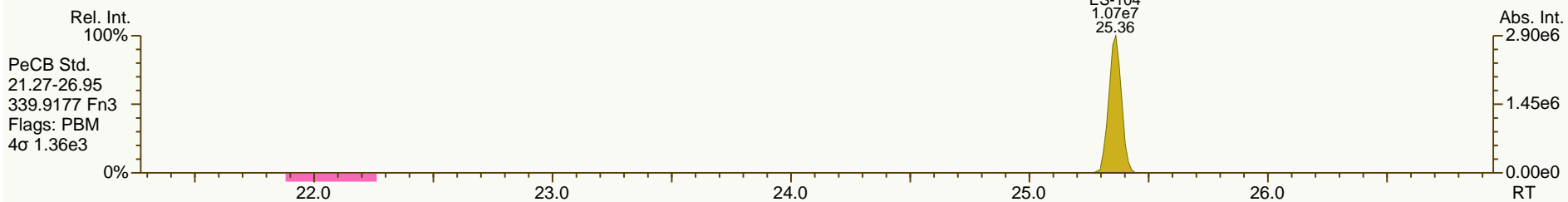
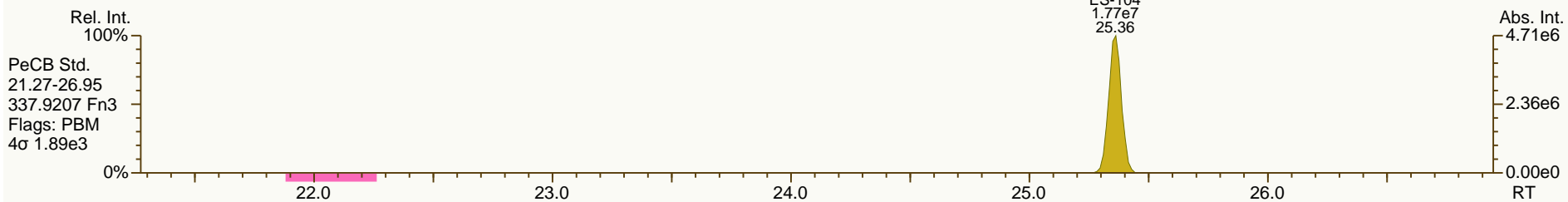
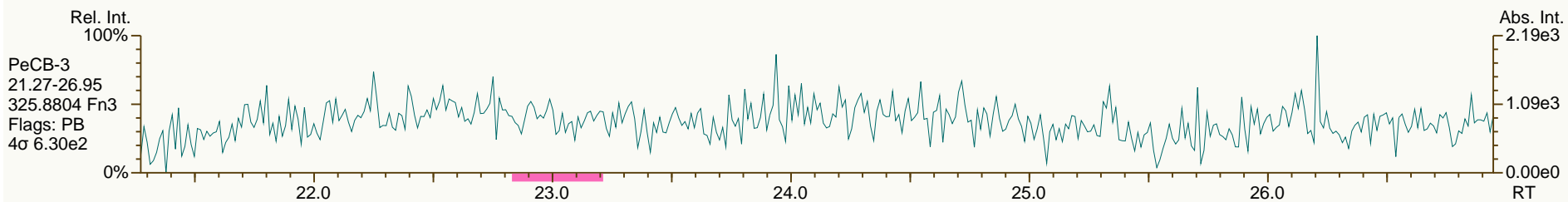
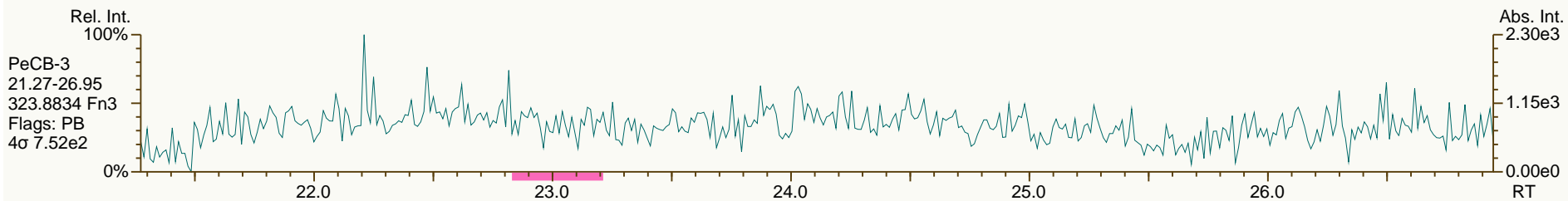
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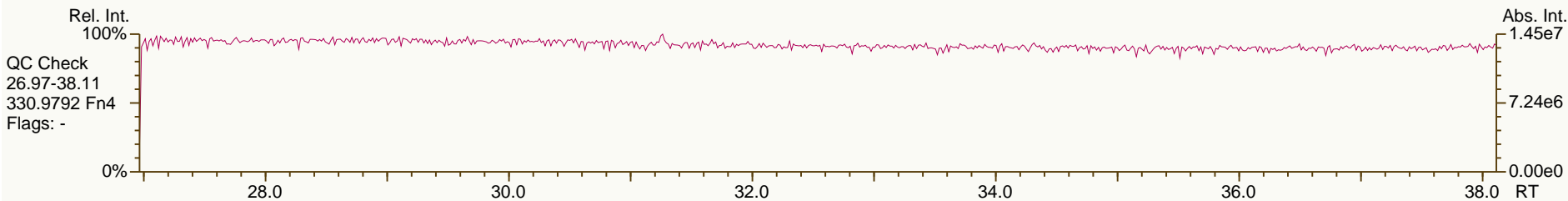
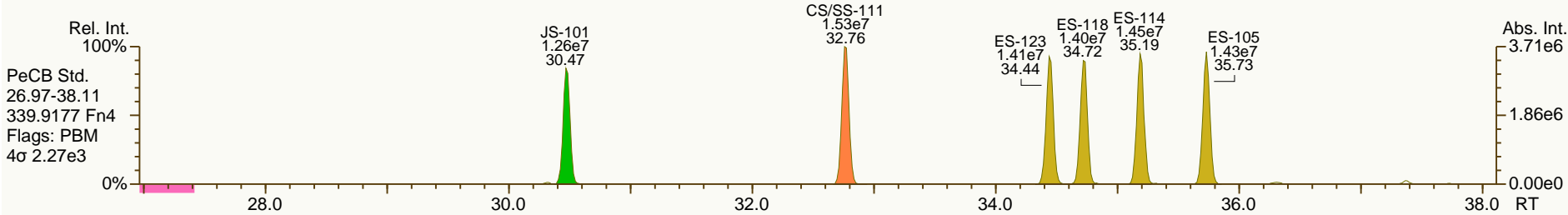
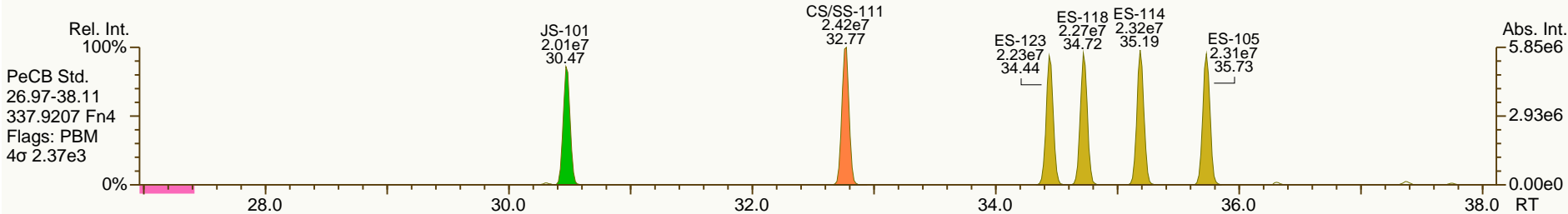
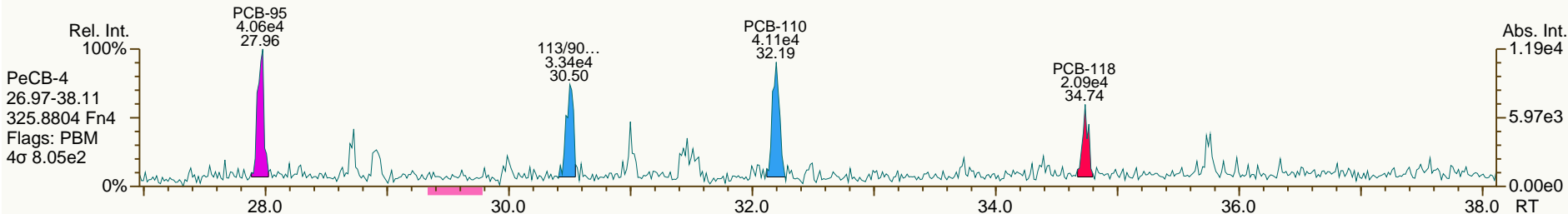
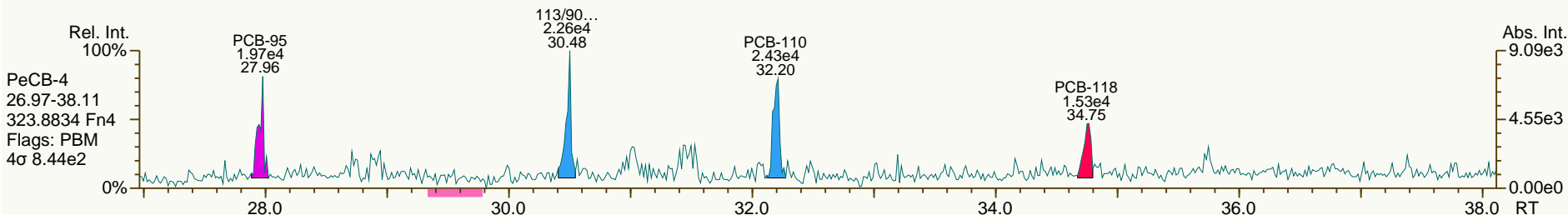
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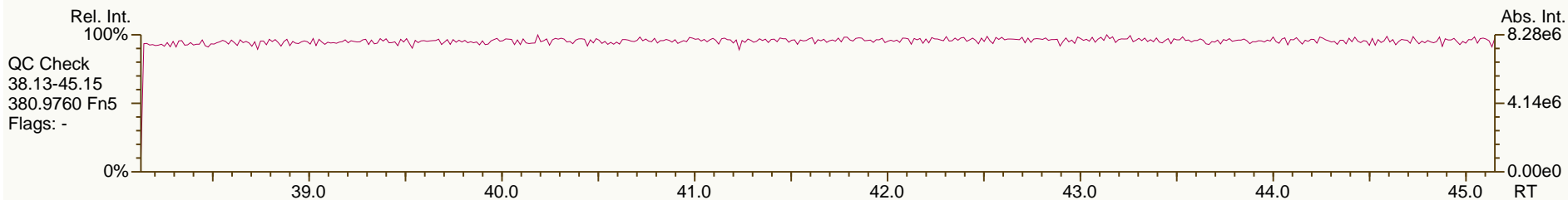
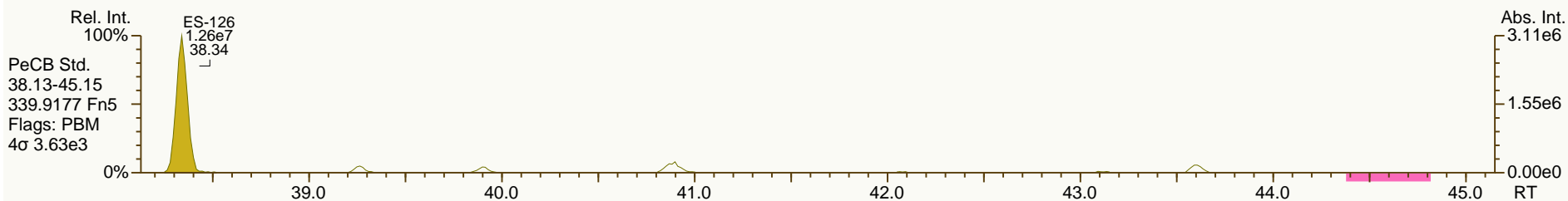
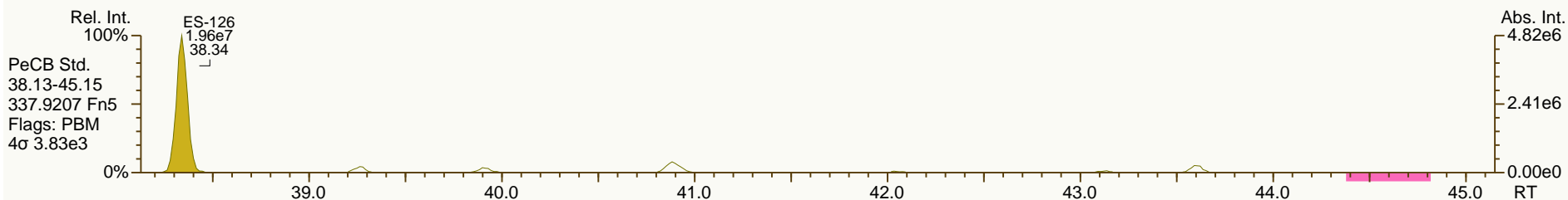
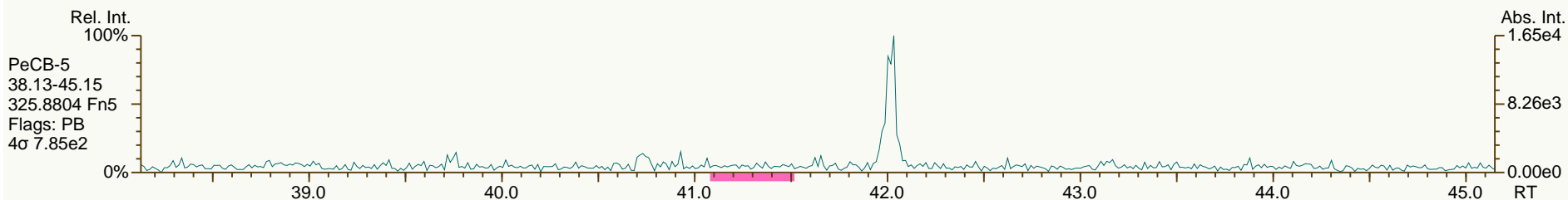
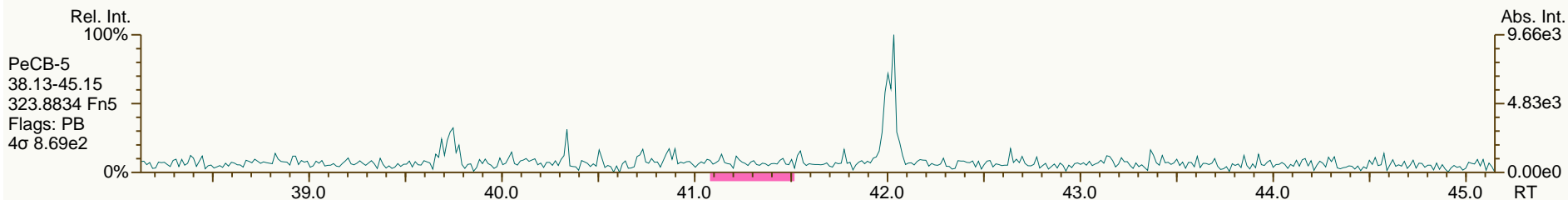




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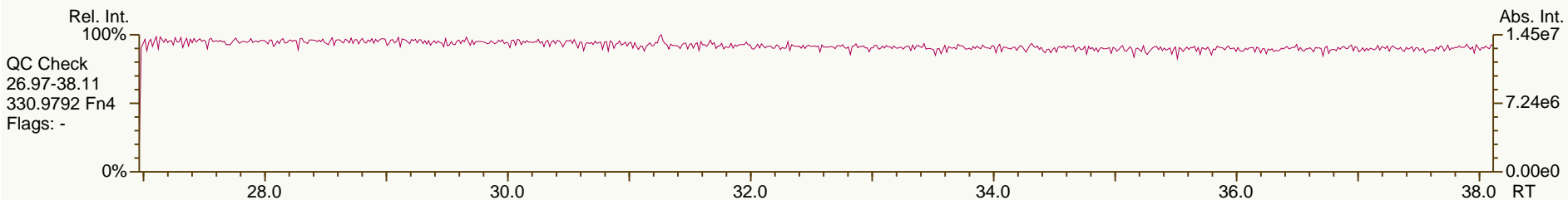
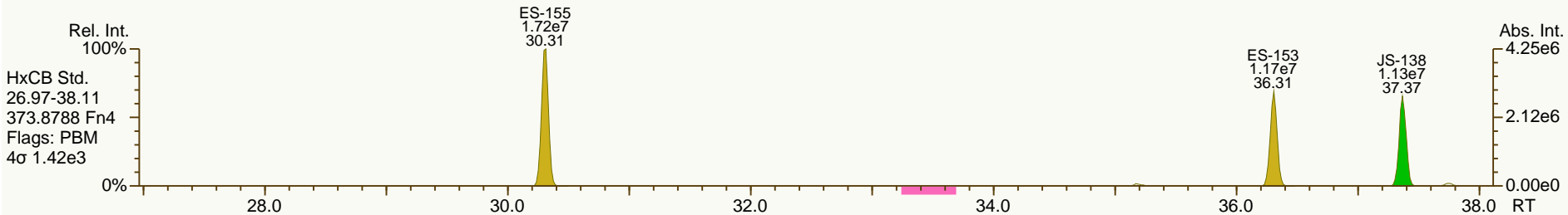
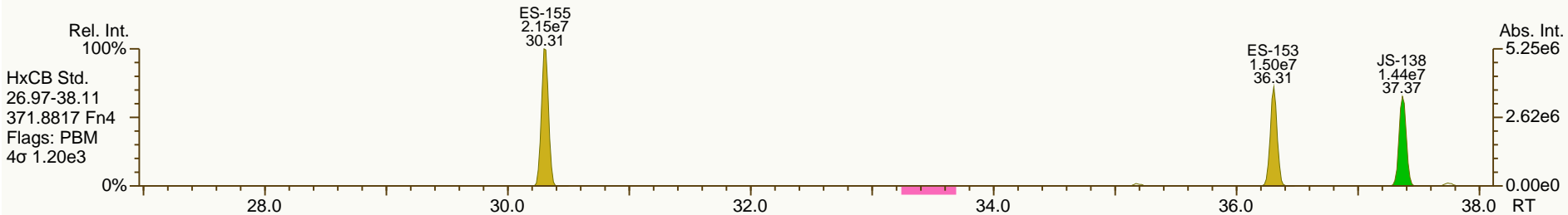
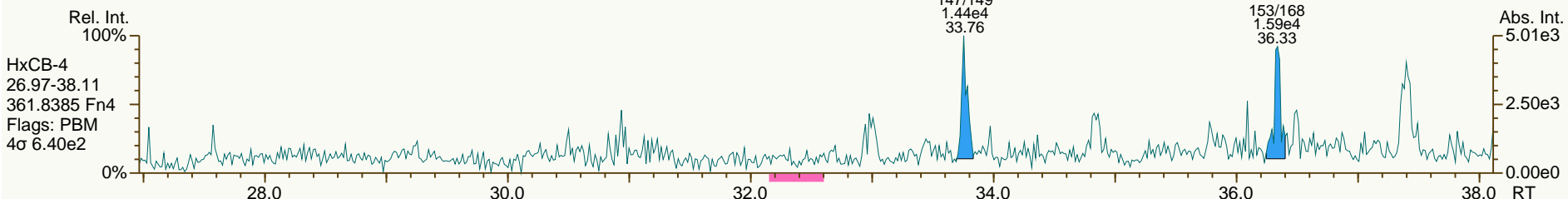
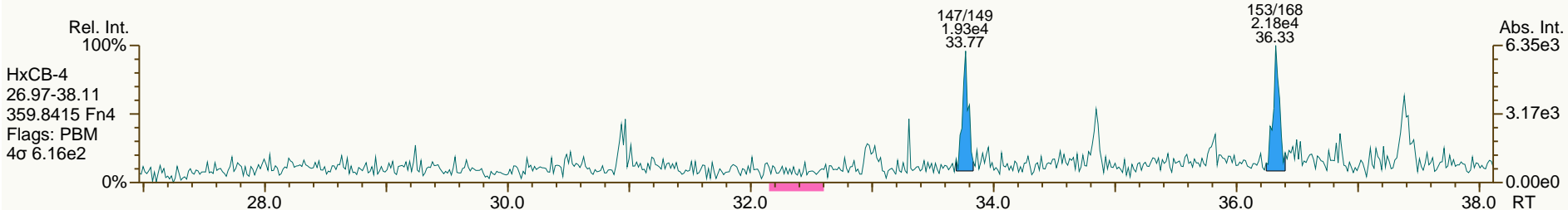
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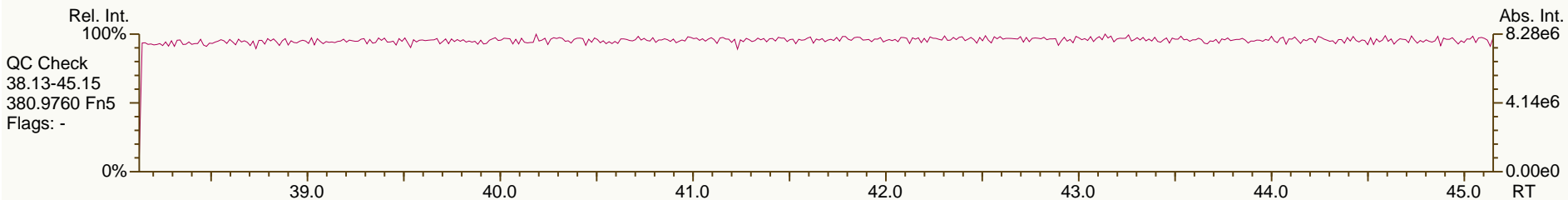
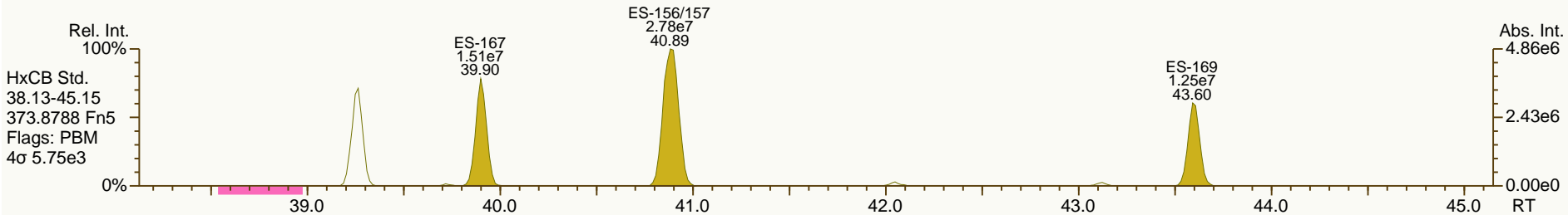
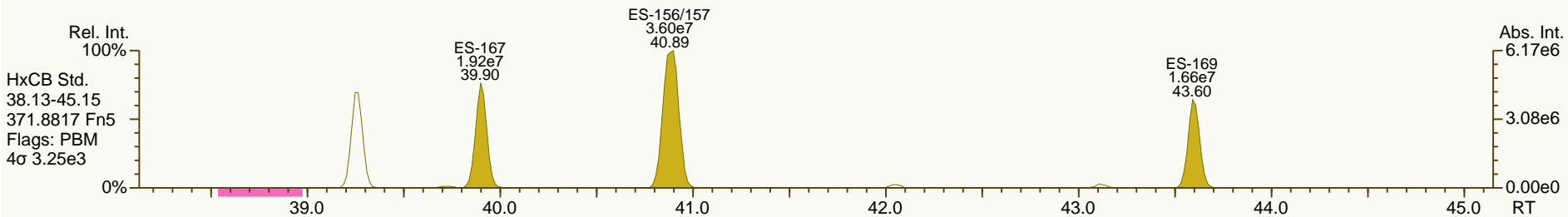
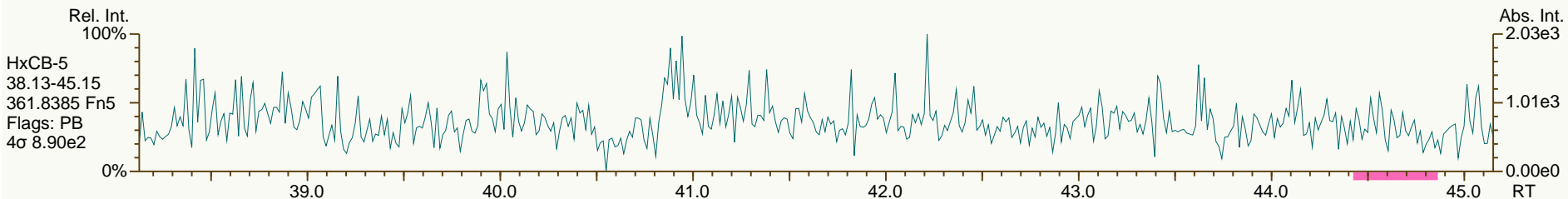
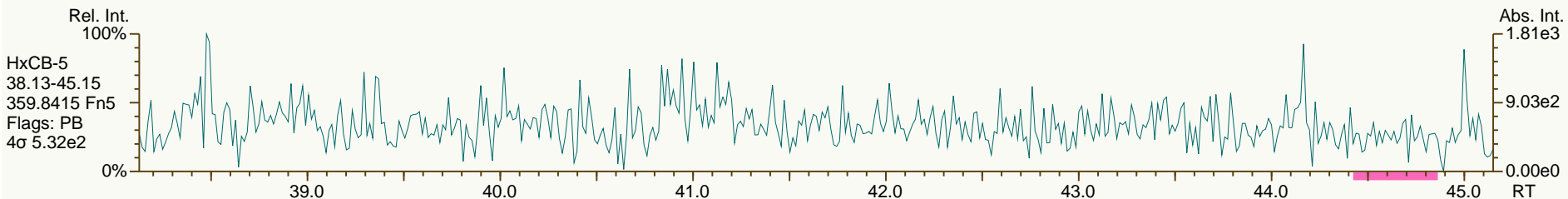
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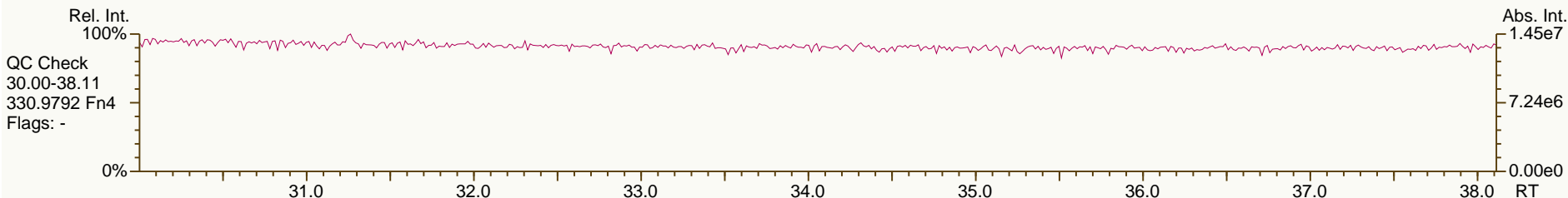
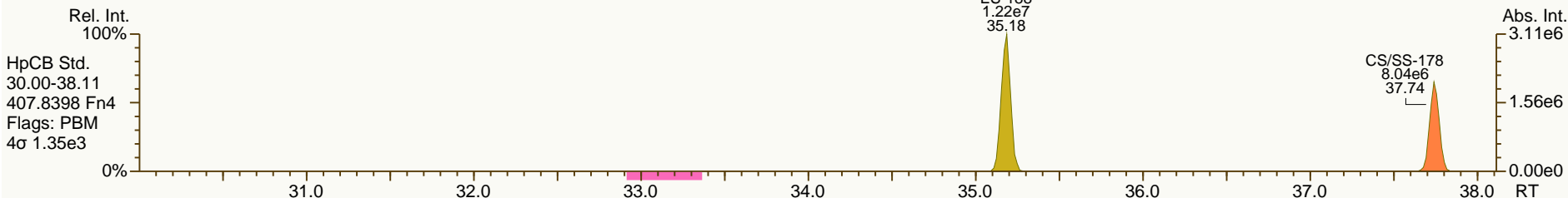
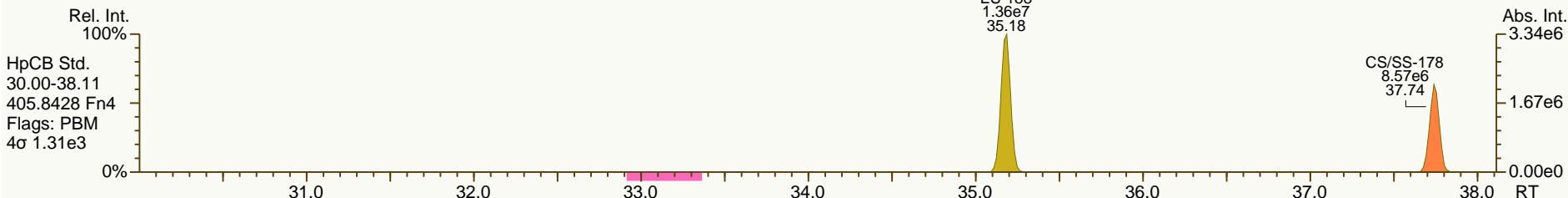
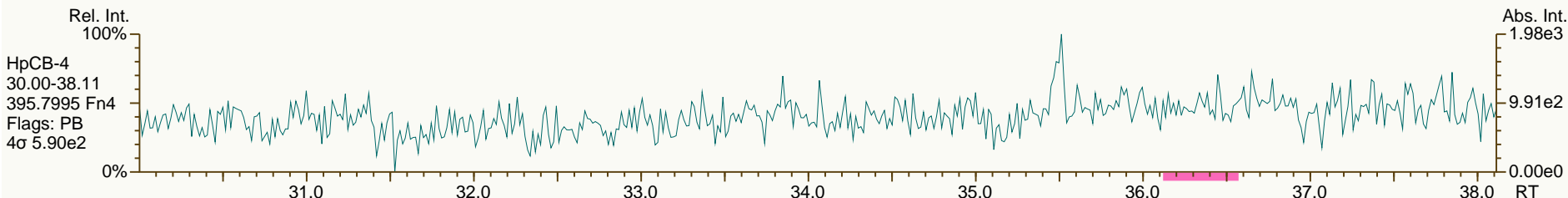
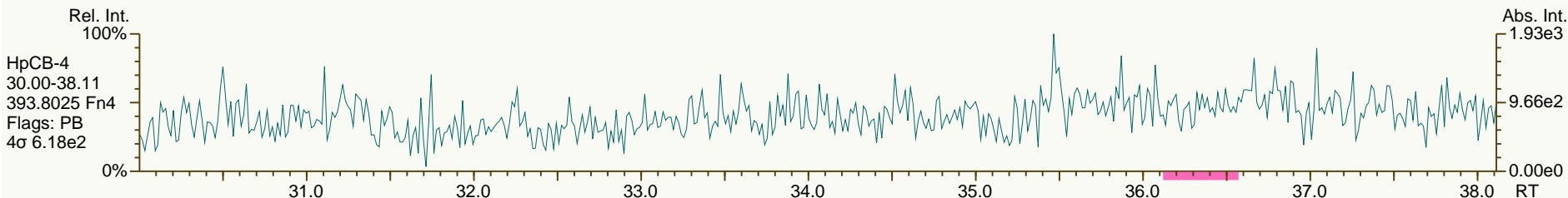
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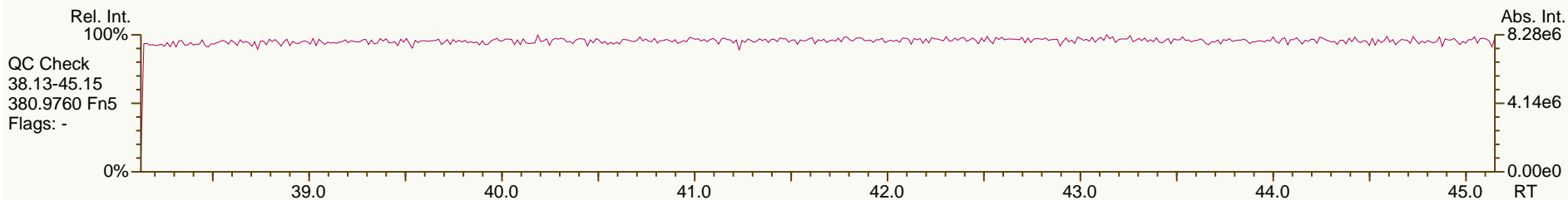
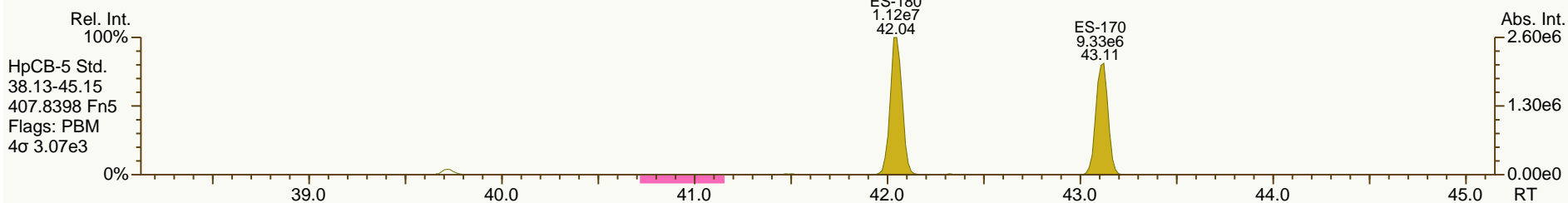
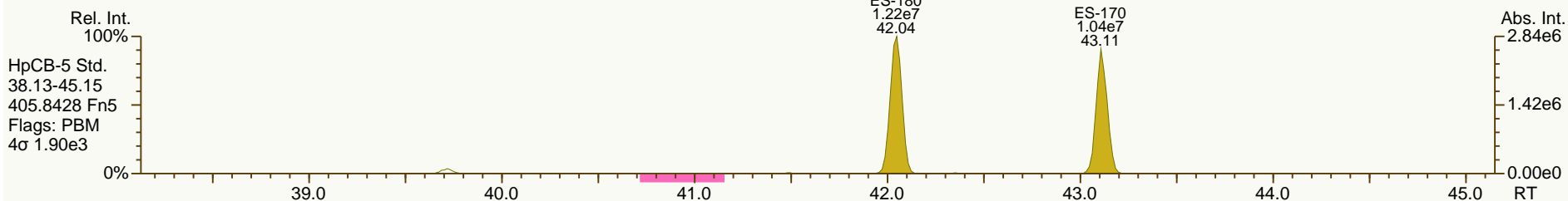
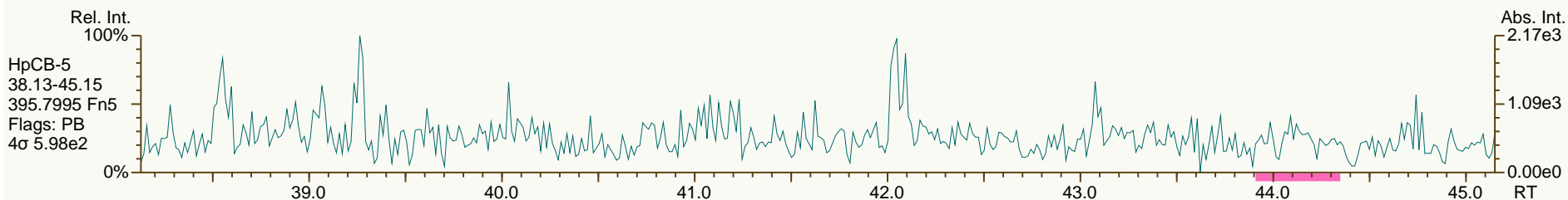
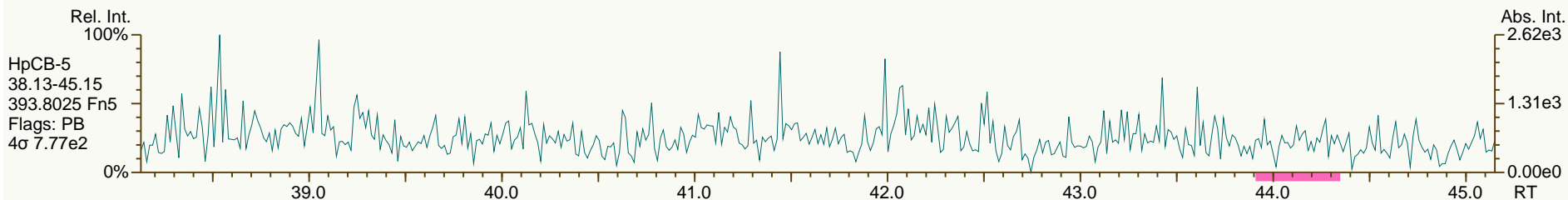
Acq: 28-Mar-2014 14:24:30  
 User: LKB Datafile: 140328X05



SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

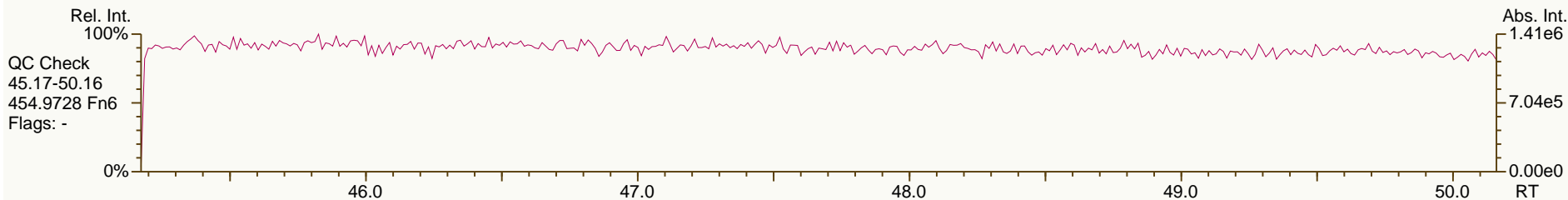
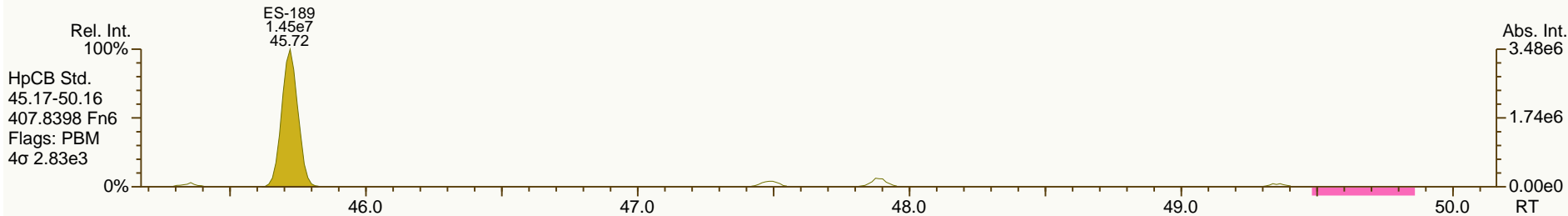
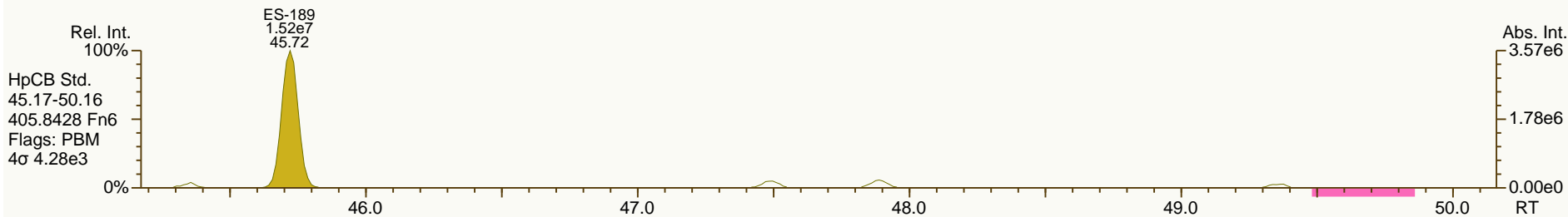
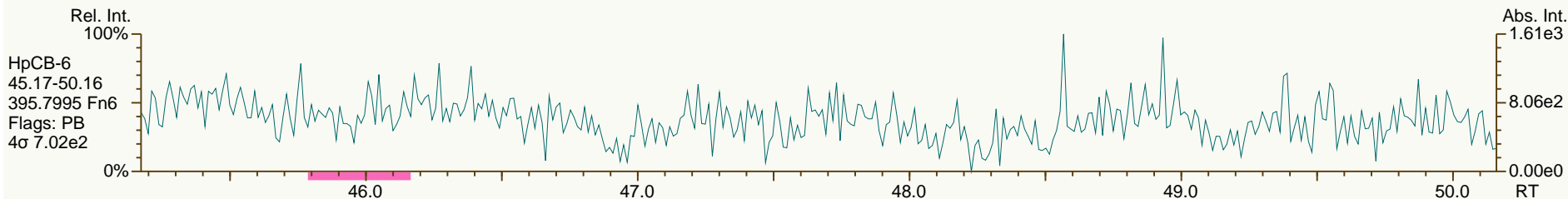
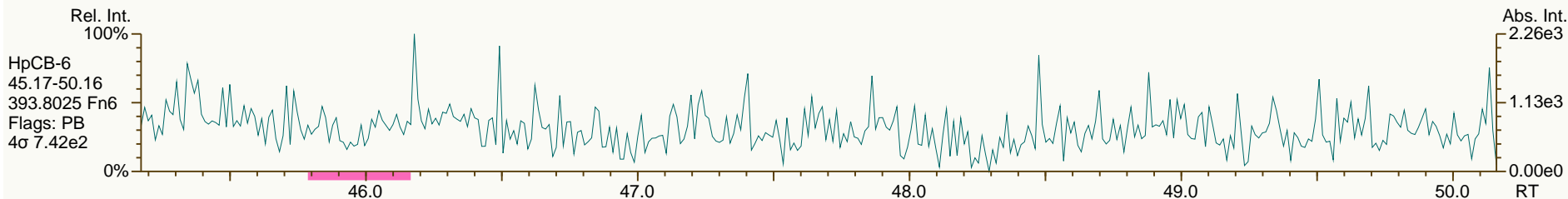
Acq: 28-Mar-2014 14:24:30  
User: LKB Datafile: 140328X05



SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

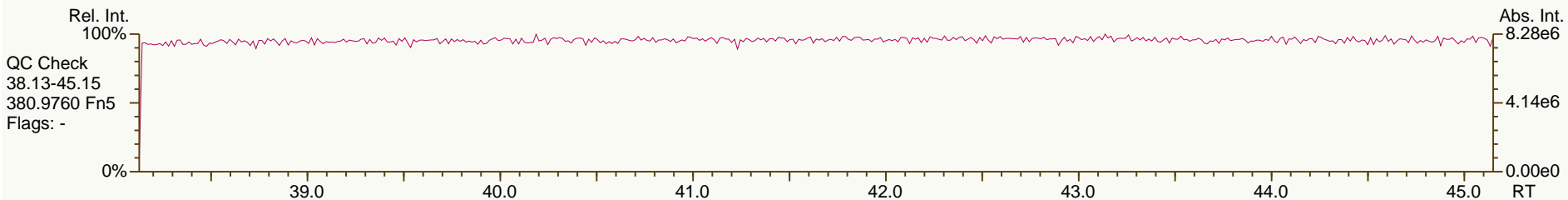
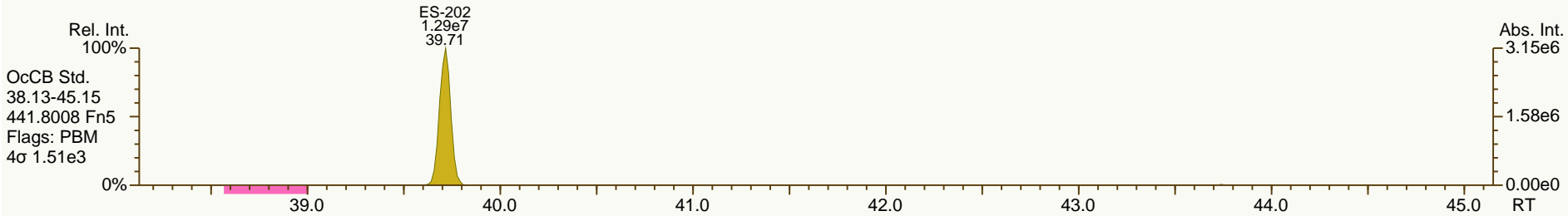
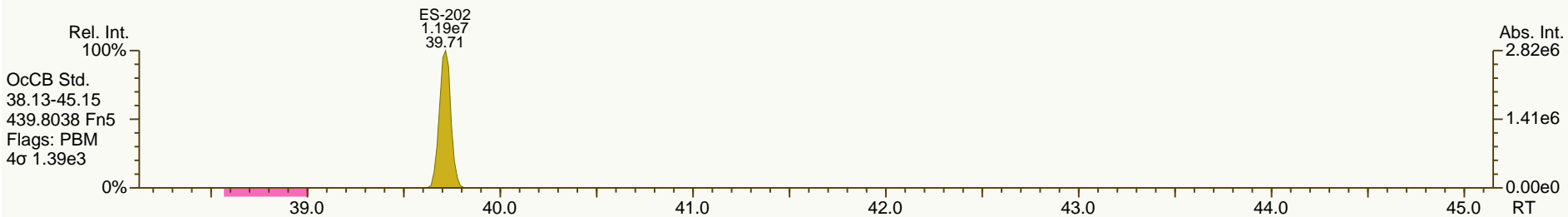
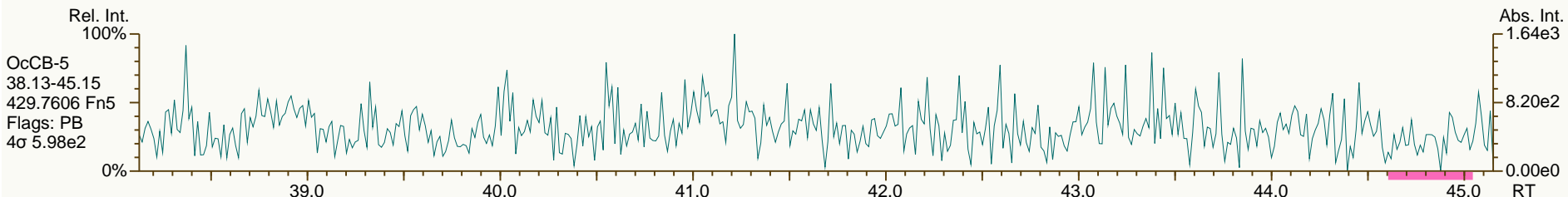
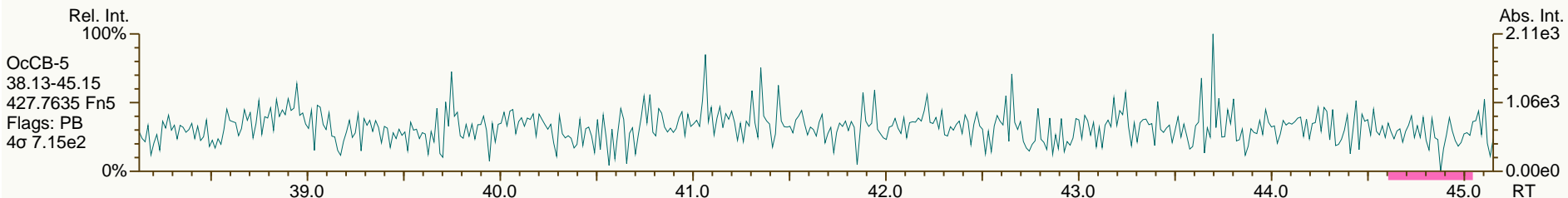
Acq: 28-Mar-2014 14:24:30  
 User: LKB Datafile: 140328X05



SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 28-Mar-2014 14:24:30  
 User: LKB Datafile: 140328X05



SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 28-Mar-2014 14:24:30  
 User: LKB Datafile: 140328X05

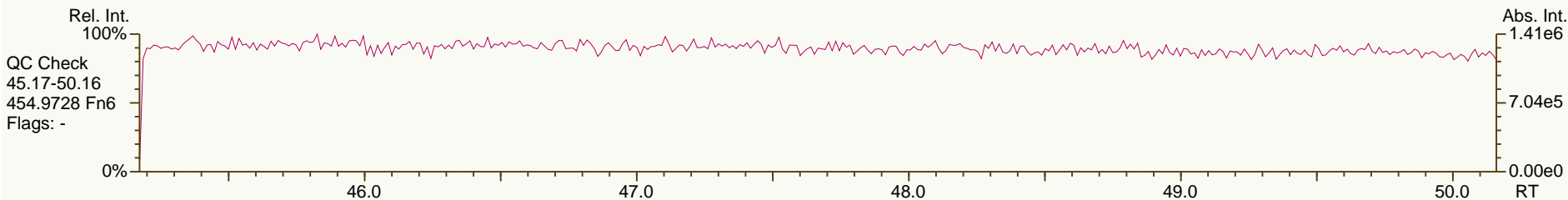
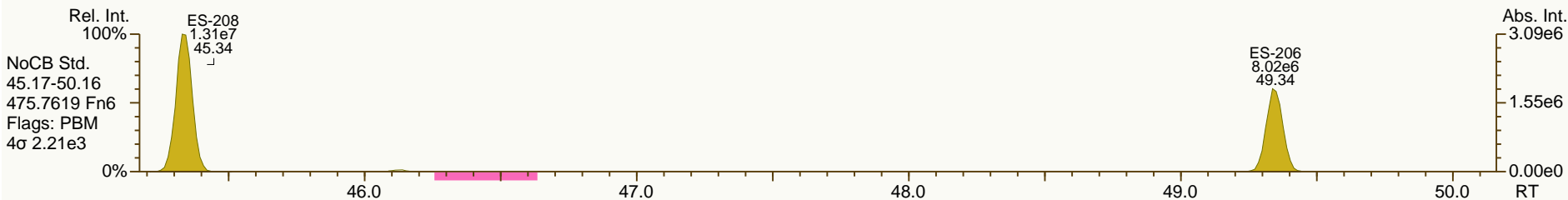
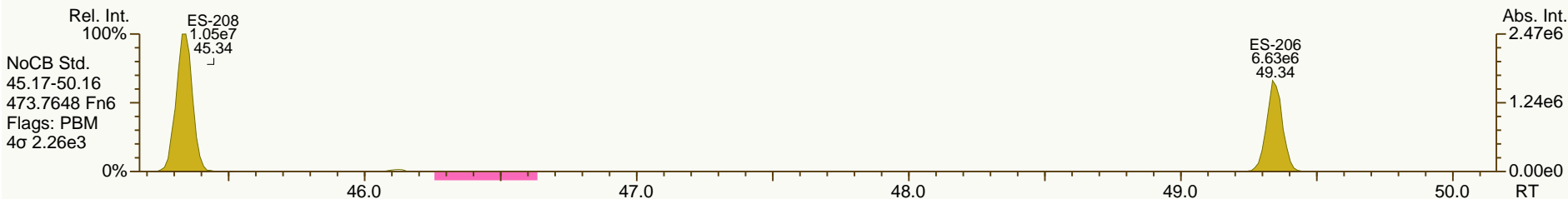
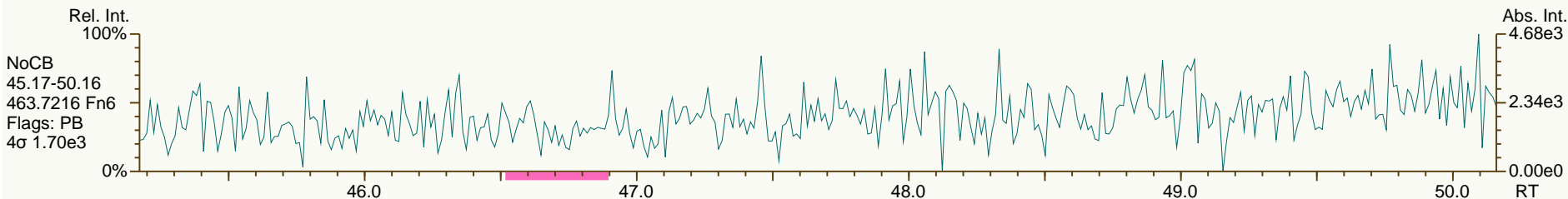
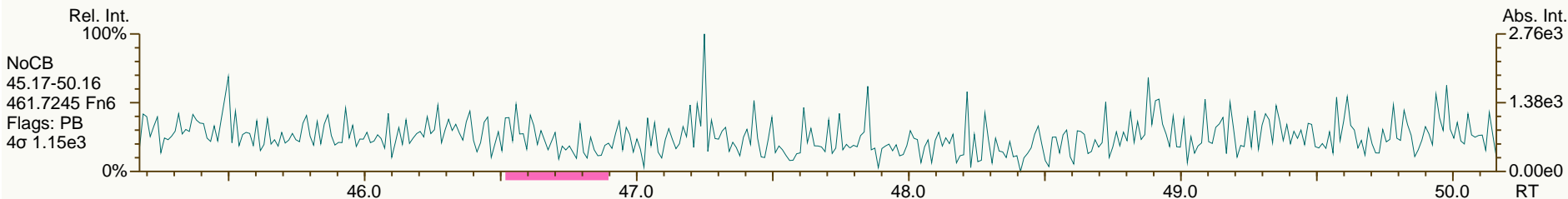




SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

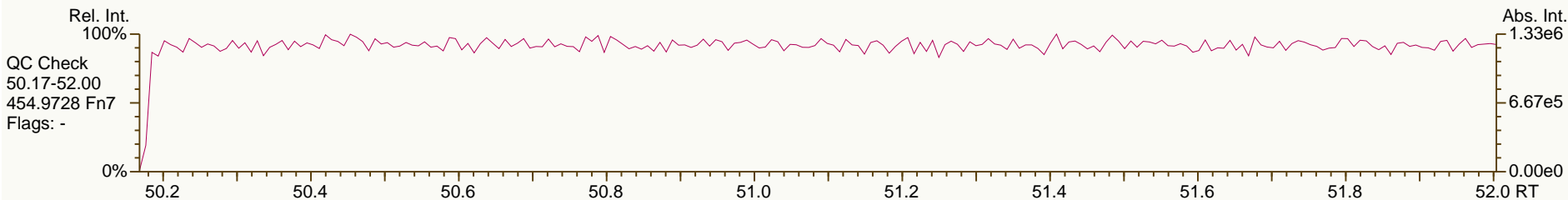
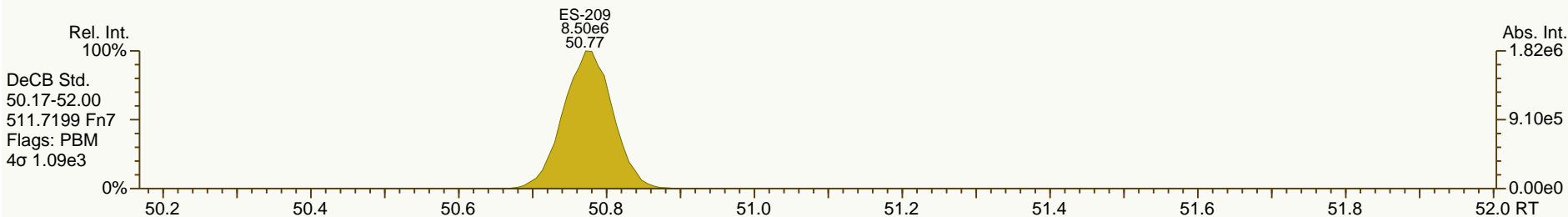
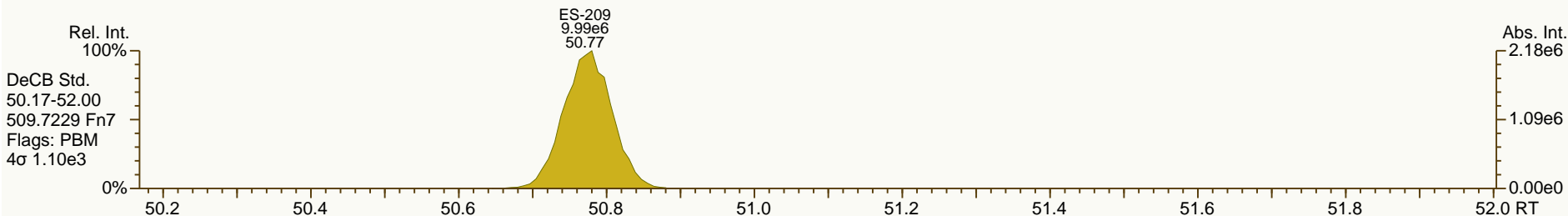
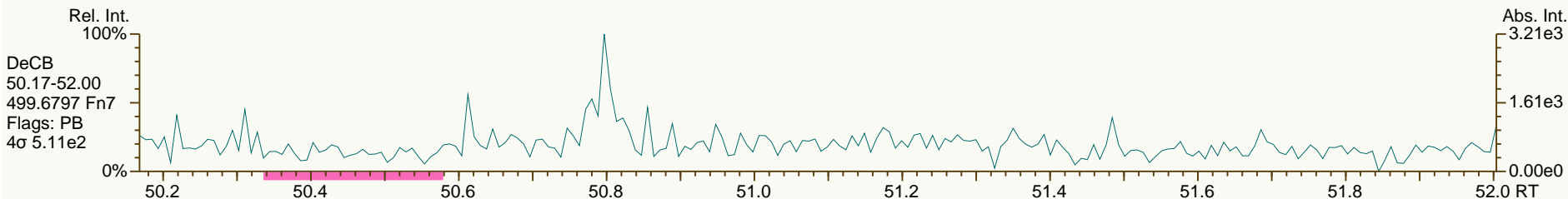
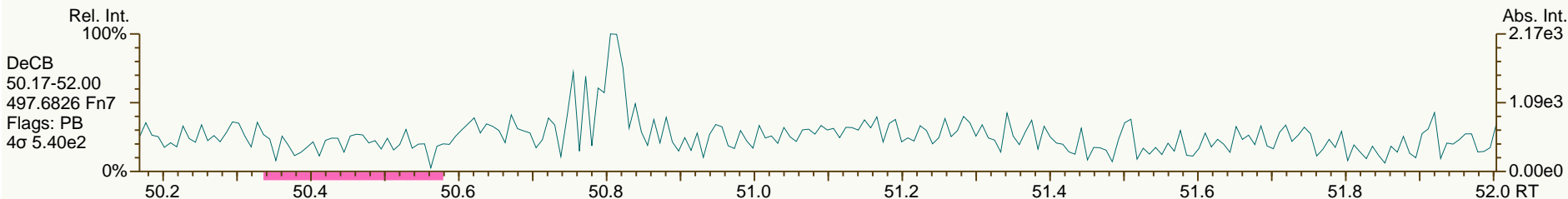
Acq: 28-Mar-2014 14:24:30  
 User: LKB Datafile: 140328X05



SGS-AP ID: A6504\_11892\_PCB\_009-RJ2  
 Instr: AutoSpec-Premier MM7

Sample ID: EB1-01 (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 28-Mar-2014 14:24:30  
 User: LKB Datafile: 140328X05



## SGS Analytical Perspectives — Run Log

Project: A6504\_11892\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
5	140326X05	Tray1:03	CS3_140326_PCB_XC	1.00	SIL 13-73-3	LKB, CEM	507-144	26-Mar-2014	18:21:41
6	140326X06	Tray1:32	OPR1_11892_PCB-RJ	1.00	0_11892_OPR001	LKB, CEM	678-882	26-Mar-2014	19:16:37
7	140326X07	Tray1:02	SBS_140326_PCB_XB	1.00	SIL 13-42-1	LKB, CEM	654-631	26-Mar-2014	20:11:52
8	140326X08	Tray1:33	MB1_11892_PCB_TLX	1.00	Method Blank	LKB, CEM	967-196	26-Mar-2014	21:07:05
9	140326X09	Tray1:34	A6504_11892_PCB_001	0.97	PB020-1SWMID-140313-N (TOTAL)	LKB, CEM	320-870	26-Mar-2014	22:02:20
10	140326X10	Tray1:35	A6504_11892_PCB_002	0.98	PB031.1-1SWMID-140313-N (TOTAL)	LKB, CEM	645-564	26-Mar-2014	22:57:34
11	140326X11	Tray1:36	A6504_11892_PCB_003	0.97	PB047.3-1SWMID-140313-N (TOTAL)	LKB, CEM	786-548	26-Mar-2014	23:52:48
12	140326X12	Tray1:37	A6504_11892_PCB_004	0.97	PB056_C-1SWMID-140313-N (TOTAL)	LKB, CEM	848-343	27-Mar-2014	00:47:55
13	140326X13	Tray1:38	A6504_11892_PCB_005	0.96	PB056_C-1SWMID-140313-N (DISSOLVED)	LKB, CEM	681-037	27-Mar-2014	01:43:07
14	140326X14	Tray1:39	A6504_11892_PCB_006	0.93	EF006.1-1SWMID-140313-N (TOTAL)	LKB, CEM	889-569	27-Mar-2014	02:38:21
15	140326X15	Tray1:40	A6504_11892_PCB_007	0.94	PB119_B-1SWMID-140313-N (TOTAL)	LKB, CEM	251-126	27-Mar-2014	03:33:35
16	140326X16	Tray1:41	A6504_11892_PCB_008	0.97	EB1-01 (TOTAL)	LKB, CEM	842-903	27-Mar-2014	04:28:49
17	140326X17	Tray1:42	A6504_11892_PCB_009	0.90	EB1-01 (DISSOLVED)	LKB, CEM	490-847	27-Mar-2014	05:24:04
1	140328X01	Tray1:03	CS3_140328_PCB_XA	1.00	SIL 13-73-3	LKB, CEM	523-232	28-Mar-2014	10:43:57
3	140328X03	Tray1:02	SBS_140328_PCB_XA	1.00	SIL 13-42-1	LKB, CEM	851-325	28-Mar-2014	12:34:10
5	140328X05	Tray1:42	A6504_11892_PCB_009-RJ2	0.90	EB1-01 (DISSOLVED)	LKB, CEM	477-807	28-Mar-2014	14:24:30

PCB QC Summary		SGS Environmental Services			Processed: 31-Mar-2014 18:49		
Lab ID:	CS3_140326_PCB_XC						
Acquired:	26-MAR-2014 18:21		ICAL: MM7_PCB_10292013_20DEC2013				
Datafile:	140326X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.82	4.03E+07	0.80 Y	1.15	1.18	2.6%	
PCB-81 344'5'-TeCB	32.34	3.97E+07	0.79 Y	1.12	1.17	4.4%	
PCB-105 233'44'-PeCB	35.80	3.18E+07	0.61 Y	1.11	1.09	-2.4%	
PCB-114 2344'5'-PeCB	35.26	3.46E+07	0.62 Y	1.20	1.20	0.1%	
PCB-118 23'44'5'-PeCB	34.80	3.26E+07	0.62 Y	1.19	1.14	-4.1%	
PCB-123 23'44'5'-PeCB	34.52	3.39E+07	0.61 Y	1.21	1.19	-1.6%	
PCB-126 33'44'5'-PeCB	38.41	2.96E+07	0.64 Y	1.11	1.20	8.6%	
PCB-156/157 ...-HxCB	40.96	5.34E+07	1.21 Y	1.10	1.08	-1.8%	
PCB-167 23'44'55'-HxCB	39.98	3.02E+07	1.22 Y	1.16	1.15	-1.4%	
PCB-169 33'44'55'-HxCB	43.67	2.58E+07	1.22 Y	1.12	1.13	0.8%	
PCB-189 233'44'55'-HpCB	45.80	2.60E+07	1.05 Y	1.07	1.11	3.2%	
PCB-209 DeCB	50.86	1.64E+07	1.17 Y	1.11	1.06	-5.1%	
ES PCB-1	11.89	1.14E+08	3.31 Y	1.19	1.10	-7.5%	
ES PCB-3	14.18	1.06E+08	3.36 Y	1.09	1.02	-5.6%	
ES PCB-4	14.44	5.84E+07	1.59 Y	0.52	0.57	8.6%	
ES PCB-15	20.15	1.09E+08	1.58 Y	1.04	1.06	1.7%	
ES PCB-19	17.52	5.35E+07	1.06 Y	0.51	0.52	2.8%	
ES PCB-37	26.47	8.06E+07	1.09 Y	1.66	1.48	-10.7%	
ES PCB-54	20.44	5.10E+07	0.77 Y	0.86	0.94	9.0%	
ES PCB-77	32.80	6.82E+07	0.81 Y	1.38	1.25	-9.3%	
ES PCB-81	32.32	6.80E+07	0.81 Y	1.37	1.25	-8.5%	
ES PCB-104	25.41	4.81E+07	1.58 Y	0.80	0.98	21.4%	
ES PCB-105	35.78	5.86E+07	1.57 Y	1.20	1.19	-1.1%	
ES PCB-114	35.24	5.75E+07	1.61 Y	1.22	1.17	-4.2%	
ES PCB-118	34.78	5.71E+07	1.61 Y	1.16	1.16	0.0%	
ES PCB-123	34.49	5.69E+07	1.55 Y	1.19	1.15	-2.8%	
ES PCB-126	38.39	4.93E+07	1.53 Y	1.03	1.00	-2.8%	
ES PCB-153	36.36	4.30E+07	1.31 Y	1.11	1.12	0.6%	
ES PCB-155	30.36	6.09E+07	1.32 Y	1.59	1.59	-0.1%	
ES PCB-156/157	40.94	9.92E+07	1.28 Y	1.60	1.29	-19.2%	
ES PCB-167	39.96	5.28E+07	1.27 Y	1.67	1.38	-17.6%	
ES PCB-169	43.65	4.55E+07	1.26 Y	1.56	1.19	-23.8%	
ES PCB-170	43.17	3.21E+07	1.08 Y	0.95	1.13	19.5%	
ES PCB-180	42.10	3.85E+07	1.05 Y	1.14	1.36	19.4%	
ES PCB-188	35.23	4.30E+07	1.07 Y	0.94	1.12	19.2%	
ES PCB-189	45.78	4.69E+07	1.04 Y	1.58	1.65	4.5%	
ES PCB-202	39.77	4.03E+07	0.92 Y	0.97	1.05	8.3%	
ES PCB-205	47.94	3.49E+07	0.90 Y	1.24	1.23	-0.9%	
ES PCB-206	49.41	2.45E+07	0.78 Y	0.83	0.87	4.3%	
ES PCB-208	45.39	3.79E+07	0.78 Y	1.17	1.34	13.8%	
ES PCB-209	50.84	3.09E+07	1.18 Y	1.11	1.09	-1.6%	

PCB QC Summary		SGS Environmental Services		Processed: 31-Mar-2014 18:49			
Lab ID:	CS3_140326_PCB_XC	ICAL: MM7_PCB_10292013_20DEC2013					
Acquired:	26-MAR-2014 18:21						
Datafile:	140326X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.92	8.96E+07	1.08 Y	1.11	1.11	0.1%	
SS PCB-111	32.82	5.99E+07	1.57 Y	1.03	1.05	2.3%	
SS PCB-178	37.80	2.58E+07	1.05 Y	0.62	0.60	-3.0%	
CS PCB-28	22.92	8.96E+07	1.08 Y	1.85	1.65	-10.6%	
CS PCB-111	32.82	5.99E+07	1.57 Y	1.22	1.22	-0.5%	
CS PCB-178	37.80	2.58E+07	1.05 Y	0.58	0.67	15.7%	
JS PCB-9	16.42	1.03E+08	1.56 Y		-	-	
JS PCB-52	24.54	5.43E+07	0.80 Y		-	-	
JS PCB-101	30.53	4.93E+07	1.58 Y		-	-	
JS PCB-138	37.42	3.84E+07	1.29 Y		-	-	
JS PCB-194	47.54	2.83E+07	0.92 Y		-	-	
PCB-1 2-MoCB	11.91	6.03E+07	3.30 Y	0.95	1.06	11.5%	
PCB-3 4-MoCB	14.20	5.82E+07	3.34 Y	1.01	1.10	9.4%	
PCB-4 22'-DiCB	14.45	3.45E+07	1.61 Y	1.23	1.18	-4.1%	
PCB-15 44'-DiCB	20.17	5.80E+07	1.66 Y	1.02	1.07	4.5%	
PCB-19 22'6'-TrCB	17.54	2.99E+07	1.04 Y	1.15	1.12	-2.8%	
PCB-37 344'-TrCB	26.49	4.83E+07	1.00 Y	1.08	1.20	11.2%	
PCB-54 22'66'-TeCB	20.46	3.39E+07	0.81 Y	1.35	1.33	-1.7%	
PCB-104 22'466'-PeCB	25.43	3.28E+07	0.64 Y	1.43	1.37	-4.7%	
PCB-155 22'44'66'-HxCB	30.38	3.63E+07	1.27 Y	1.26	1.19	-5.4%	
PCB-188 22'34'566'-HpCB	35.26	2.48E+07	1.07 Y	1.27	1.15	-9.1%	
PCB-202 22'33'55'66'-OcCB	39.79	2.03E+07	0.92 Y	1.05	1.01	-4.1%	
PCB-205 233'44'55'6'-OcCB	47.96	1.76E+07	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.42	2.09E+07	0.79 Y	1.12	1.10	-1.9%	
PCB-206 22'33'44'55'6'-NoCB	49.43	1.31E+07	0.78 Y	1.11	1.07	-3.8%	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	

PCB QC Summary - Ax2 Detail				Processed: 31-Mar-2014 18:49			
Lab ID:	CS3_140326_PCB_XC			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	26-MAR-2014 18:21						
Datafile:	140326X05						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.91	6.03E+07	3.30 Y	0.95	-	-	-
PCB-2 3-MoCB	14.02	5.90E+07	3.25 Y	1.03	1.12	8.1%	
PCB-3 4-MoCB	14.20	5.82E+07	3.34 Y	1.01	-	-	
PCB-4 22'-DiCB	14.45	3.45E+07	1.61 Y	1.23	-	-	
PCB-10 26-DiCB	14.63	5.60E+07	1.58 Y	1.98	1.92	-3.2%	
PCB-9 25-DiCB	16.44	5.22E+07	1.65 Y	0.95	0.96	1.4%	
PCB-7 24-DiCB	16.60	5.99E+07	1.64 Y	1.05	1.10	5.1%	
PCB-6 23'-DiCB	16.83	5.51E+07	1.64 Y	1.00	1.01	1.7%	
PCB-5 23-DiCB	17.13	5.51E+07	1.63 Y	1.00	1.01	0.9%	
PCB-8 24'-DiCB	17.25	5.79E+07	1.64 Y	1.03	1.06	2.9%	
PCB-14 35-DiCB	18.81	6.61E+07	1.66 Y	1.18	1.21	2.9%	
PCB-11 33'-DiCB	19.59	5.80E+07	1.64 Y	1.01	1.06	5.3%	
PCB-13/12 34'/34-DiCB	19.88	1.14E+08	1.64 Y	0.99	1.05	6.1%	
PCB-15 44'-DiCB	20.17	5.80E+07	1.66 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.54	2.99E+07	1.04 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.30	8.25E+07	1.04 Y	1.54	1.54	0.3%	
PCB-17 22'4-TrCB	19.70	3.52E+07	1.04 Y	1.31	1.32	0.9%	
PCB-27 23'6-TrCB	19.90	4.80E+07	1.05 Y	1.82	1.79	-1.3%	
PCB-24 236-TrCB	20.03	4.59E+07	1.04 Y	1.72	1.72	-0.5%	
PCB-16 22'3-TrCB	20.13	2.62E+07	1.05 Y	1.01	0.98	-2.5%	
PCB-32 24'6-TrCB	20.61	5.15E+07	1.05 Y	1.92	1.92	0.3%	
PCB-34 23'5'-TrCB	21.76	4.96E+07	1.01 Y	1.14	1.23	8.3%	
PCB-23 235-TrCB	21.91	5.02E+07	1.01 Y	1.16	1.25	7.9%	
PCB-26/29 23'5/245-TrCB	22.19	1.02E+08	1.01 Y	1.17	1.27	8.1%	
PCB-25 23'4-TrCB	22.39	5.13E+07	1.00 Y	1.16	1.27	10.1%	
PCB-31 24'5-TrCB	22.67	5.36E+07	1.00 Y	1.23	1.33	8.5%	
PCB-28/20 244'/233'-TrCB	22.95	9.94E+07	1.01 Y	1.13	1.23	8.9%	
PCB-21/33 234/23'4'-TrCB	23.13	1.02E+08	1.00 Y	1.17	1.27	7.8%	
PCB-22 234'-TrCB	23.51	4.77E+07	1.01 Y	1.08	1.18	9.6%	
PCB-36 33'5-TrCB	24.89	5.22E+07	1.01 Y	1.17	1.29	10.6%	
PCB-39 34'5-TrCB	25.21	5.40E+07	1.00 Y	1.21	1.34	10.7%	
PCB-38 345-TrCB	25.74	4.90E+07	1.00 Y	1.10	1.22	10.0%	
PCB-35 33'4-TrCB	26.13	4.71E+07	1.01 Y	1.04	1.17	12.3%	
PCB-37 344'-TrCB	26.49	4.83E+07	1.00 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.46	3.39E+07	0.81 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.44	6.16E+07	0.78 Y	0.88	0.91	3.4%	
PCB-45 22'36'-TeCB	23.03	2.79E+07	0.77 Y	0.77	0.82	7.1%	
PCB-51 22'46'-TeCB	23.10	2.98E+07	0.79 Y	0.86	0.88	2.0%	
PCB-46 22'36'-TeCB	23.31	2.50E+07	0.79 Y	0.70	0.73	5.1%	
PCB-52 22'55'-TeCB	24.56	3.03E+07	0.79 Y	0.84	0.89	5.7%	
PCB-73 23'5'6'-TeCB	24.69	3.99E+07	0.79 Y	1.11	1.18	5.7%	

Lab ID: - Ax2 Detail			Processed: 31-Mar-2014 18:49			
Lab ID:	CS3_140326_PCB_XC	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	26-MAR-2014 18:21					
Datafile:	140326X05					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.79	2.60E+07	0.78 Y	0.71	0.76	7.5%
PCB-69/49 23'46'/22'45'-TeCB	24.98	7.40E+07	0.79 Y	1.02	1.09	6.5%
PCB-48 22'45'-TeCB	25.27	3.03E+07	0.79 Y	0.84	0.89	6.2%
PCB-44/47/65 ...-TeCB	25.48	9.66E+07	0.79 Y	0.90	0.95	4.9%
PCB-59/62/75 ...-TeCB	25.76	1.27E+08	0.79 Y	1.17	1.24	6.6%
PCB-42 22'34'-TeCB	25.92	2.77E+07	0.80 Y	0.76	0.82	7.0%
PCB-41 22'34'-TeCB	26.26	2.54E+07	0.78 Y	0.69	0.75	7.7%
PCB-71/40 23'4'6'/22'33'-TeCB	26.35	6.16E+07	0.79 Y	0.86	0.91	5.5%
PCB-64 23'4'-TeCB	26.55	4.46E+07	0.78 Y	1.22	1.31	7.5%
PCB-72 23'55'-TeCB	27.26	4.31E+07	0.79 Y	1.21	1.27	4.8%
PCB-68 23'45'-TeCB	27.52	4.50E+07	0.79 Y	1.28	1.32	3.7%
PCB-57 23'35'-TeCB	27.89	4.10E+07	0.78 Y	1.16	1.21	3.7%
PCB-58 23'35'-TeCB	28.10	4.15E+07	0.80 Y	1.18	1.22	3.6%
PCB-67 23'45'-TeCB	28.25	4.39E+07	0.80 Y	1.26	1.29	2.7%
PCB-63 23'45'-TeCB	28.48	4.62E+07	0.79 Y	1.30	1.36	4.6%
PCB-61/70/74/76 ...-TeCB	28.77	1.66E+08	0.79 Y	1.20	1.22	1.8%
PCB-66 23'44'-TeCB	29.05	3.98E+07	0.79 Y	1.10	1.17	6.4%
PCB-55 23'34'-TeCB	29.20	3.91E+07	0.80 Y	1.12	1.15	2.8%
PCB-56 23'34'-TeCB	29.64	3.93E+07	0.79 Y	1.11	1.16	4.2%
PCB-60 23'44'-TeCB	29.83	3.96E+07	0.79 Y	1.14	1.17	2.7%
PCB-80 33'55'-TeCB	30.15	4.69E+07	0.80 Y	1.31	1.38	5.1%
PCB-79 33'45'-TeCB	31.47	4.47E+07	0.79 Y	1.31	1.32	0.7%
PCB-78 33'45'-TeCB	31.96	3.77E+07	0.81 Y	1.06	1.11	4.7%
PCB-104 22'466'-PeCB	25.43	3.28E+07	0.64 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.75	2.80E+07	0.64 Y	1.23	1.17	-5.0%
PCB-103 22'45'6'-PeCB	27.44	2.71E+07	0.61 Y	0.93	0.95	2.4%
PCB-94 22'356'-PeCB	27.63	2.28E+07	0.61 Y	0.80	0.80	0.0%
PCB-95 22'35'6'-PeCB	28.01	2.47E+07	0.60 Y	0.87	0.87	0.3%
PCB-100/93 22'44'6'/22'356'-PeC	28.22	4.98E+07	0.61 Y	0.86	0.88	1.4%
PCB-102 22'456'-PeCB	28.33	2.50E+07	0.62 Y	0.97	0.88	-9.1%
PCB-98 22'34'6'-PeCB	28.40	2.43E+07	0.63 Y	0.76	0.85	12.6%
PCB-88 22'346'-PeCB	28.71	2.41E+07	0.61 Y	0.80	0.85	6.0%
PCB-91 22'34'6'-PeCB	28.77	2.44E+07	0.63 Y	0.94	0.86	-9.2%
PCB-84 22'33'6'-PeCB	28.96	2.05E+07	0.61 Y	0.72	0.72	0.5%
PCB-89 22'346'-PeCB	29.38	2.22E+07	0.61 Y	0.76	0.78	2.1%
PCB-121 23'45'6'-PeCB	29.72	3.47E+07	0.63 Y	1.20	1.22	1.5%
PCB-92 22'355'-PeCB	30.04	2.40E+07	0.62 Y	0.82	0.84	2.9%
PCB-113/90/101 ...-PeCB	30.52	8.31E+07	0.61 Y	0.99	0.97	-1.3%
PCB-83 22'33'5'-PeCB	30.96	1.88E+07	0.62 Y	0.71	0.66	-7.6%

Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 18:49			
Lab ID:	CS3_140326_PCB_XC			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	26-MAR-2014 18:21						
Datafile:	140326X05						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	31.05	2.80E+07	0.62 Y	0.92	0.98		6.8%
PCB-112 233'56-PeCB	31.16	3.29E+07	0.62 Y	1.17	1.16		-0.9%
PCB-108/119/86/97/125...-PeCB	31.50	1.67E+08	0.61 Y	0.98	0.98		-0.3%
PCB-117 234'56-PeCB	32.04	3.09E+07	0.60 Y	1.14	1.09		-4.4%
PCB-116/85 23456/22'344'-PeCB	32.13	5.51E+07	0.61 Y	0.94	0.97		3.0%
PCB-110 233'4'6-PeCB	32.25	3.13E+07	0.62 Y	1.12	1.10		-1.7%
PCB-115 2344'6-PeCB	32.33	3.19E+07	0.61 Y	1.16	1.12		-3.3%
PCB-82 22'33'4-PeCB	32.53	1.98E+07	0.62 Y	0.70	0.69		-0.3%
PCB-111 233'55'-PeCB	32.84	3.42E+07	0.61 Y	1.22	1.20		-1.5%
PCB-120 23'455'-PeCB	33.24	3.48E+07	0.61 Y	1.21	1.22		0.9%
PCB-107/124 ...-PeCB	34.20	6.25E+07	0.62 Y	1.10	1.10		0.1%
PCB-109 233'46-PeCB	34.41	3.47E+07	0.62 Y	1.25	1.22		-2.5%
PCB-106 233'45-PeCB	34.63	3.08E+07	0.62 Y	1.11	1.08		-2.0%
PCB-122 233'4'5'-PeCB	35.09	2.90E+07	0.61 Y	0.99	1.01		1.5%
PCB-127 33'455'-PeCB	37.03	3.12E+07	0.61 Y	1.10	1.06		-2.8%
PCB-155 22'44'66'-HxCB	30.38	3.63E+07	1.27 Y	1.26	-		-
PCB-152 22'3566'-HxCB	30.54	3.31E+07	1.27 Y	1.17	1.09		-7.2%
PCB-150 22'34'66'-HxCB	30.68	3.41E+07	1.28 Y	1.18	1.12		-4.8%
PCB-136 22'33'66'-HxCB	30.99	3.12E+07	1.27 Y	1.07	1.02		-3.9%
PCB-145 22'3466'-HxCB	31.26	3.16E+07	1.28 Y	1.11	1.04		-6.9%
PCB-148 22'34'56'-HxCB	32.53	2.42E+07	1.26 Y	1.18	1.12		-5.0%
PCB-151/135 ...-HxCB	33.05	4.56E+07	1.27 Y	1.14	1.06		-7.0%
PCB-154 22'44'56'-HxCB	33.26	2.70E+07	1.26 Y	1.34	1.26		-6.5%
PCB-144 22'345'6-HxCB	33.52	2.37E+07	1.25 Y	1.18	1.10		-6.8%
PCB-147/149 ...-HxCB	33.82	4.74E+07	1.27 Y	1.18	1.10		-6.4%
PCB-134 22'33'56-HxCB	34.00	1.75E+07	1.25 Y	0.92	0.81		-12.0%
PCB-143 22'3456'-HxCB	34.08	2.35E+07	1.27 Y	1.13	1.09		-3.1%
PCB-139/140 ...-HxCB	34.34	4.78E+07	1.28 Y	1.21	1.11		-7.9%
PCB-131 22'33'46-HxCB	34.52	2.03E+07	1.26 Y	1.03	0.94		-8.0%
PCB-142 22'3456-HxCB	34.66	1.98E+07	1.27 Y	0.99	0.92		-6.9%
PCB-132 22'33'46'-HxCB	34.90	2.09E+07	1.27 Y	1.03	0.97		-5.8%
PCB-133 22'33'55'-HxCB	35.30	2.23E+07	1.28 Y	1.13	1.04		-8.4%
PCB-165 233'55'6-HxCB	35.64	2.84E+07	1.28 Y	1.41	1.32		-6.3%
PCB-146 22'34'55'-HxCB	35.86	2.49E+07	1.24 Y	1.20	1.16		-3.6%
PCB-161 233'45'6-HxCB	35.97	3.06E+07	1.26 Y	1.52	1.42		-6.5%
PCB-153/168 ...-HxCB	36.40	5.95E+07	1.26 Y	1.46	1.38		-5.0%
PCB-141 22'3455'-HxCB	36.55	2.17E+07	1.27 Y	1.09	1.01		-7.5%
PCB-130 22'33'45'-HxCB	36.89	1.96E+07	1.25 Y	0.97	0.91		-6.6%
PCB-137 22'344'5-HxCB	37.09	2.47E+07	1.25 Y	1.16	1.15		-1.3%
PCB-164 233'4'5'6-HxCB	37.17	2.95E+07	1.28 Y	1.50	1.37		-8.5%
PCB-163/138/129 ...-HxCB	37.46	7.26E+07	1.26 Y	1.19	1.12		-5.5%

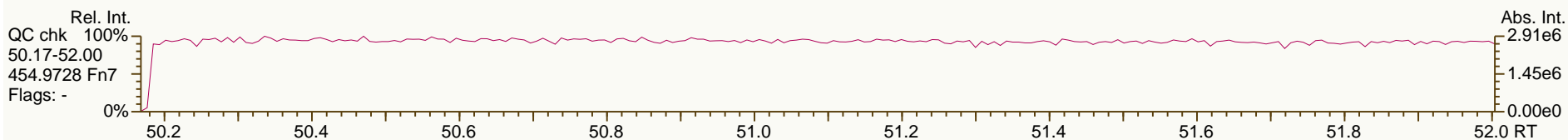
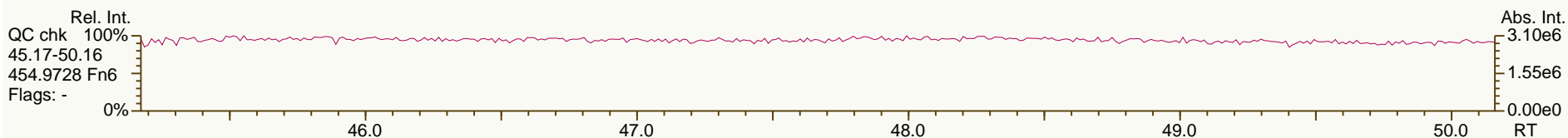
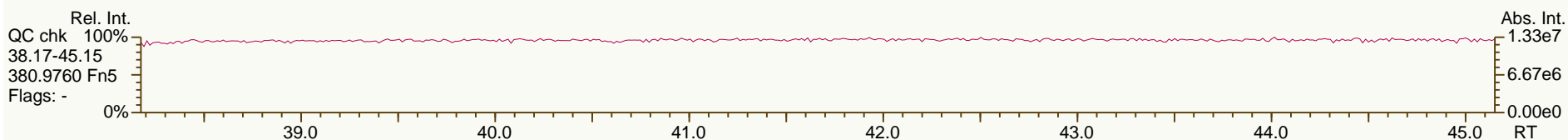
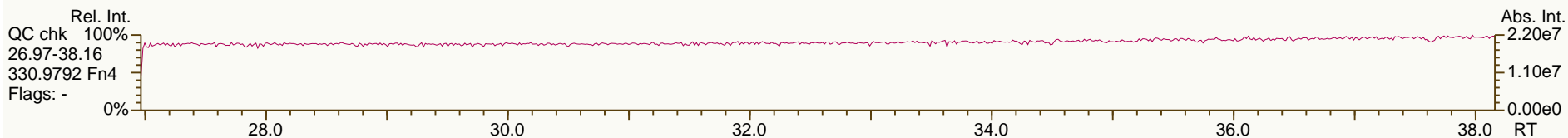
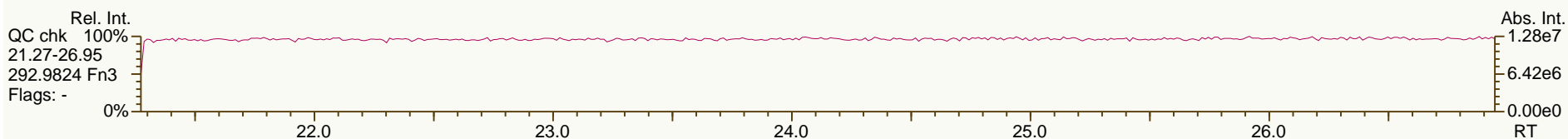
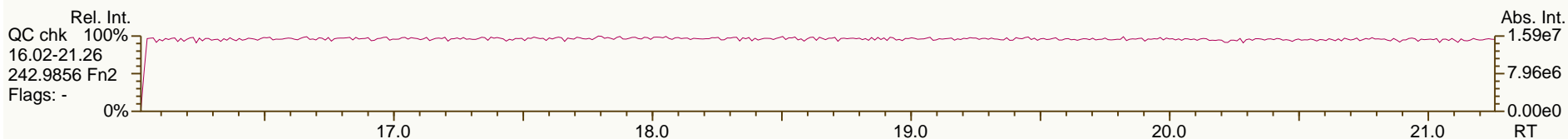
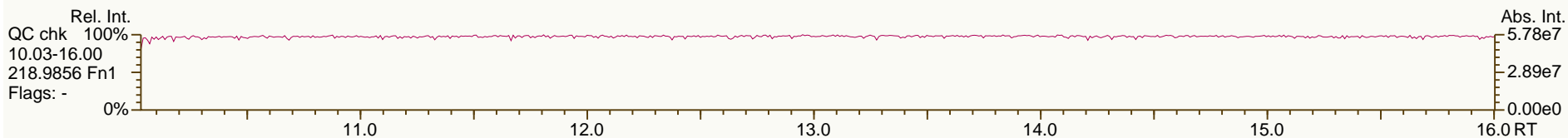


Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 18:49		
Lab ID:	CS3_140326_PCB_XC	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	26-MAR-2014 18:21					
Datafile:	140326X05					
Name	RT	Response	RA		RRF	
PCB-160 233'456'-HxCB	37.60	2.72E+07	1.27 Y	1.52	1.27	-16.4%
PCB-158 233'44'6'-HxCB	37.78	3.20E+07	1.25 Y	1.66	1.49	-10.4%
PCB-128/166 ...-HxCB	38.52	4.67E+07	1.21 Y	0.90	0.89	-1.6%
PCB-159 233'455'-HxCB	39.33	2.83E+07	1.22 Y	1.11	1.07	-3.7%
PCB-162 233'4'55'-HxCB	39.57	2.82E+07	1.20 Y	1.07	1.07	-0.3%
PCB-188 22'34'566'-HpCB	35.26	2.48E+07	1.07 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.54	2.33E+07	1.06 Y	1.16	1.09	-6.6%
PCB-184 22'344'66'-HpCB	36.00	2.24E+07	1.07 Y	1.13	1.04	-7.6%
PCB-176 22'33'466'-HpCB	36.29	2.48E+07	1.06 Y	1.23	1.15	-6.5%
PCB-186 22'34566'-HpCB	36.69	2.32E+07	1.06 Y	1.13	1.08	-4.1%
PCB-178 22'33'55'6'-HpCB	37.82	1.62E+07	1.06 Y	0.84	0.75	-10.6%
PCB-175 22'33'45'6'-HpCB	38.36	2.10E+07	1.05 Y	1.07	1.09	1.9%
PCB-187 22'34'55'6'-HpCB	38.59	2.24E+07	1.05 Y	1.14	1.17	2.5%
PCB-182 22'344'56'-HpCB	38.77	2.30E+07	1.05 Y	1.18	1.20	1.8%
PCB-183 22'344'5'6'-HpCB	39.11	2.36E+07	1.07 Y	1.20	1.23	2.0%
PCB-185 22'3455'6'-HpCB	39.20	2.02E+07	1.05 Y	1.06	1.05	-0.9%
PCB-174 22'33'456'-HpCB	39.31	1.94E+07	1.07 Y	0.99	1.01	1.9%
PCB-177 22'33'45'6'-HpCB	39.68	1.84E+07	1.06 Y	0.95	0.96	0.8%
PCB-181 22'344'56'-HpCB	40.03	2.08E+07	1.06 Y	1.09	1.08	-0.7%
PCB-171/173 ...-HpCB	40.21	3.64E+07	1.07 Y	0.95	0.95	-0.3%
PCB-172 22'33'455'-HpCB	41.56	1.90E+07	1.06 Y	0.99	0.99	0.1%
PCB-192 233'455'6'-HpCB	41.81	2.47E+07	1.07 Y	1.29	1.29	-0.1%
PCB-180/193 ...-HpCB	42.09	4.74E+07	1.06 Y	1.26	1.23	-2.3%
PCB-191 233'44'5'6'-HpCB	42.42	2.60E+07	1.04 Y	1.40	1.35	-3.2%
PCB-170 22'33'44'5'-HpCB	43.19	1.79E+07	1.06 Y	1.14	1.12	-1.8%
PCB-190 233'44'56'-HpCB	43.64	2.48E+07	1.05 Y	1.66	1.54	-7.0%
PCB-202 22'33'55'66'-OcCB	39.79	2.03E+07	0.92 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.57	2.25E+07	0.90 Y	1.22	1.12	-8.6%
PCB-204 22'344'566'-OcCB	41.15	2.09E+07	0.91 Y	1.12	1.04	-7.0%
PCB-197 22'33'44'66'-OcCB	41.34	2.20E+07	0.90 Y	1.19	1.09	-8.5%
PCB-200 22'33'4566'-OcCB	41.43	2.19E+07	0.92 Y	1.11	1.09	-2.0%
PCB-198/199 ...-OcCB	43.75	2.91E+07	0.90 Y	0.81	0.72	-10.8%
PCB-196 22'33'44'56'-OcCB	44.33	1.54E+07	0.91 Y	0.83	0.76	-8.5%
PCB-203 22'344'55'6'-OcCB	44.50	1.57E+07	0.92 Y	0.87	0.78	-10.8%
PCB-195 22'33'44'56'-OcCB	45.62	1.31E+07	0.92 Y	0.77	0.75	-2.1%
PCB-194 22'33'44'55'-OcCB	47.56	1.42E+07	0.92 Y	0.84	0.81	-3.6%
PCB-205 233'44'55'6'-OcCB	47.96	1.76E+07	0.93 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.42	2.09E+07	0.79 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.20	2.15E+07	0.78 Y	1.19	1.14	-4.5%
PCB-206 22'33'44'55'6'-NoCB	49.43	1.31E+07	0.78 Y	1.11	-	-

SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

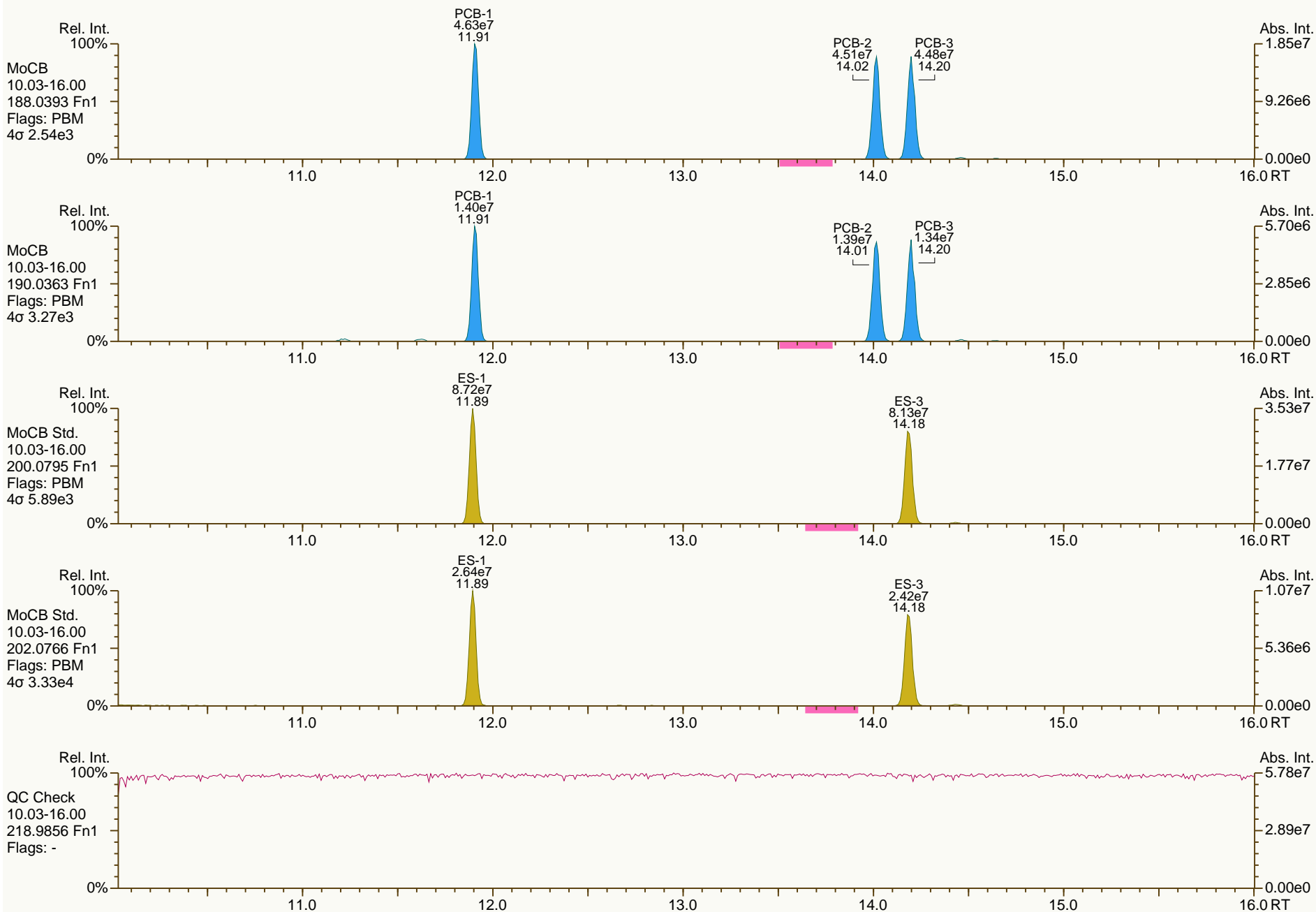
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

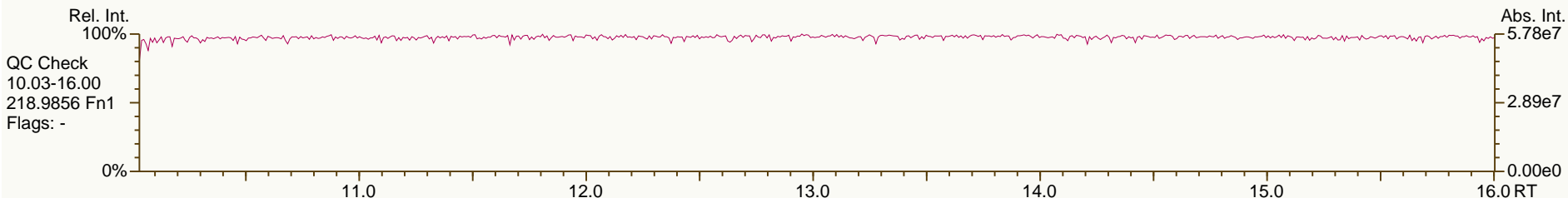
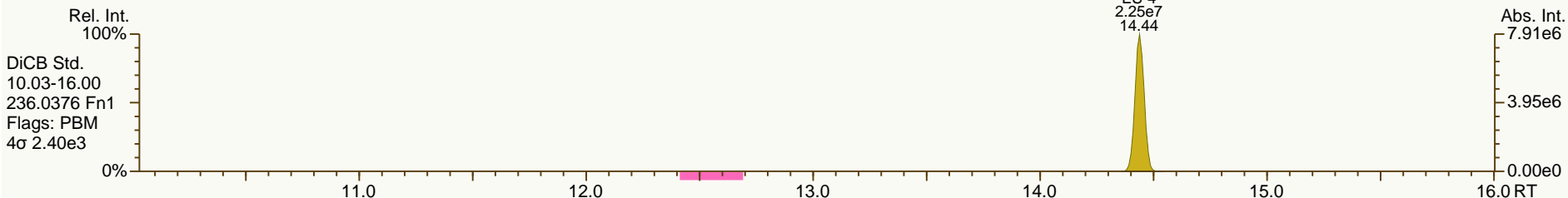
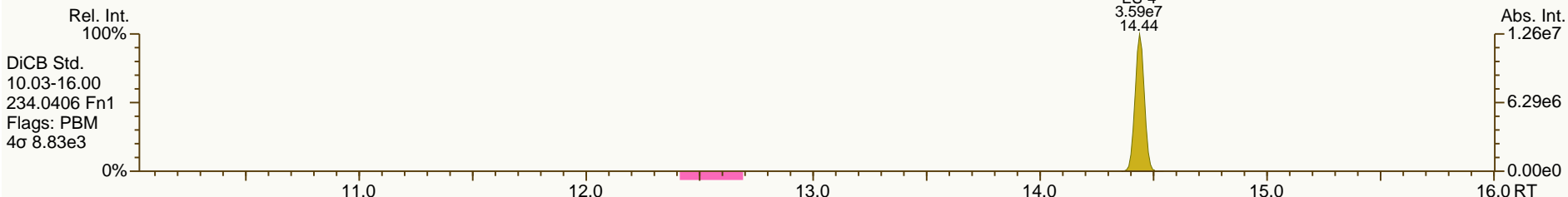
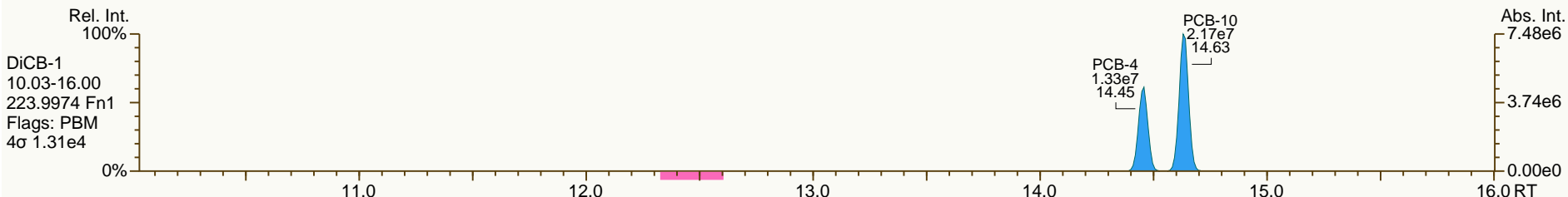
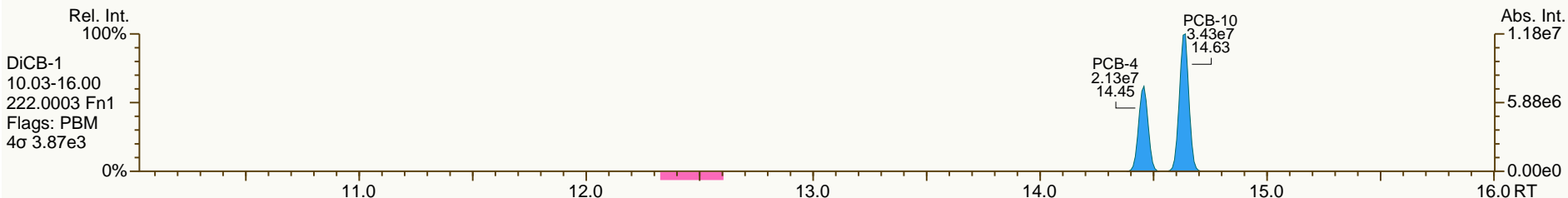
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SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

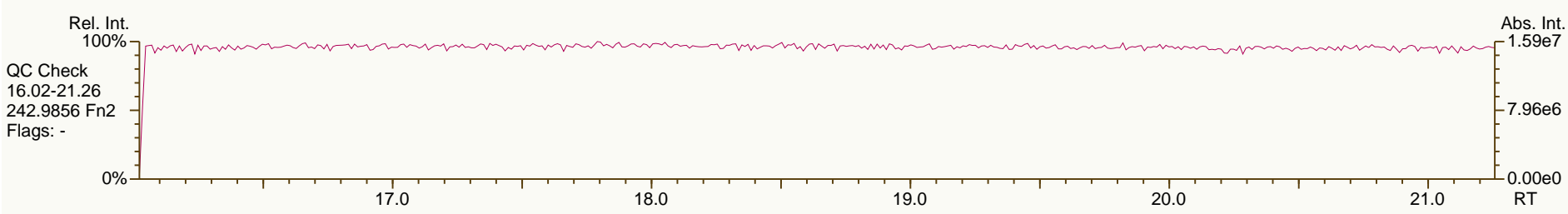
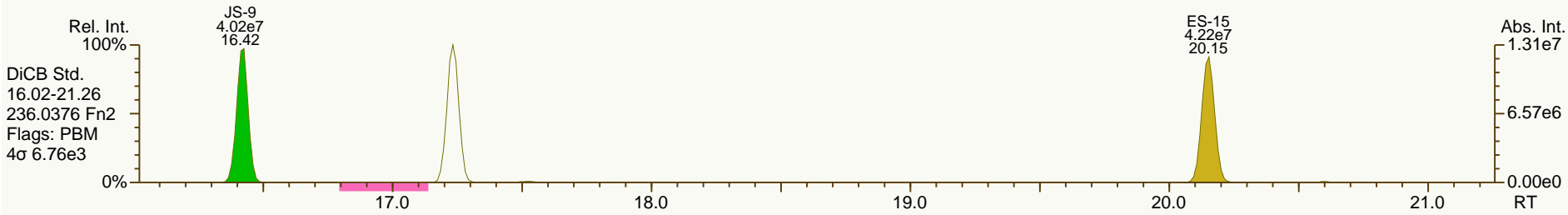
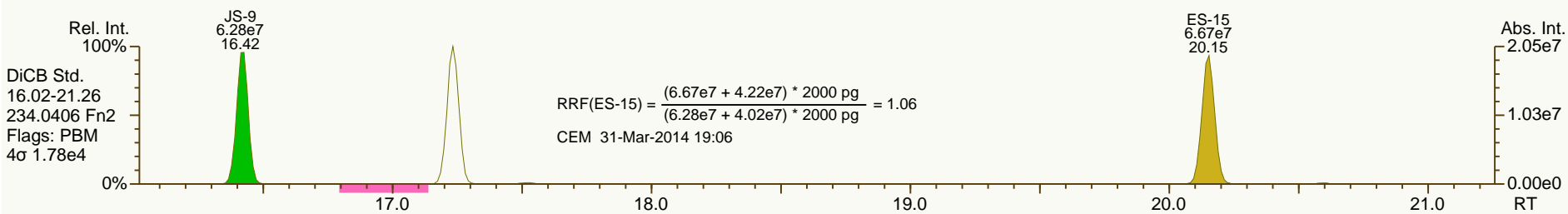
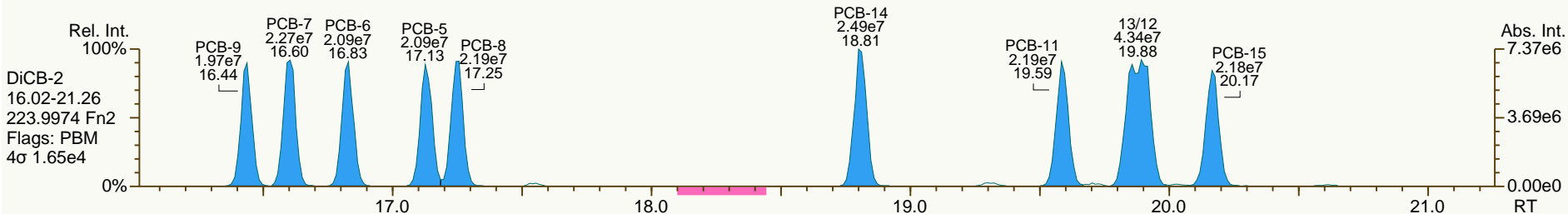
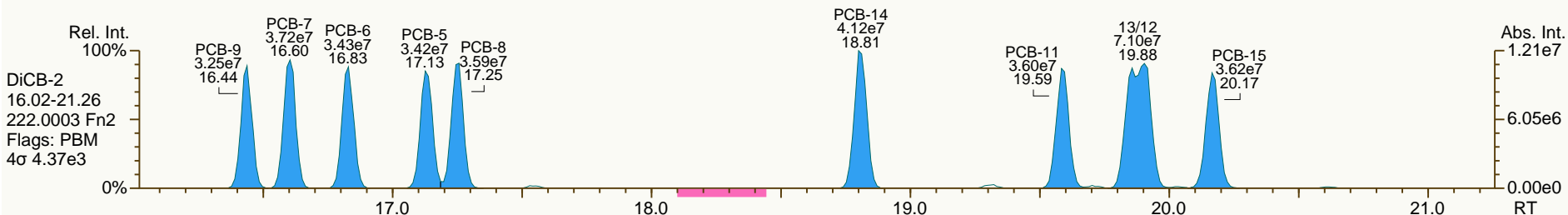
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SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

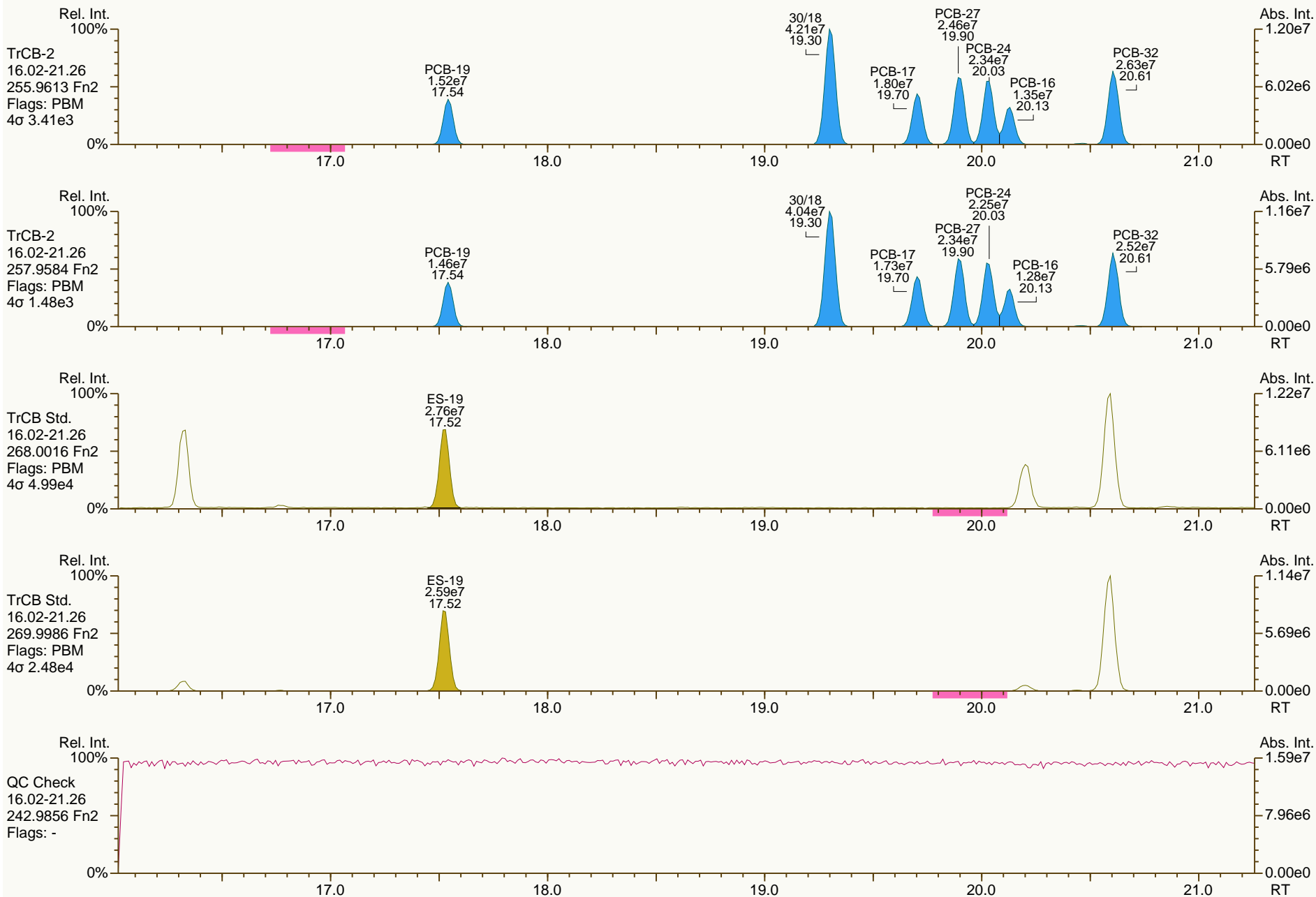
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

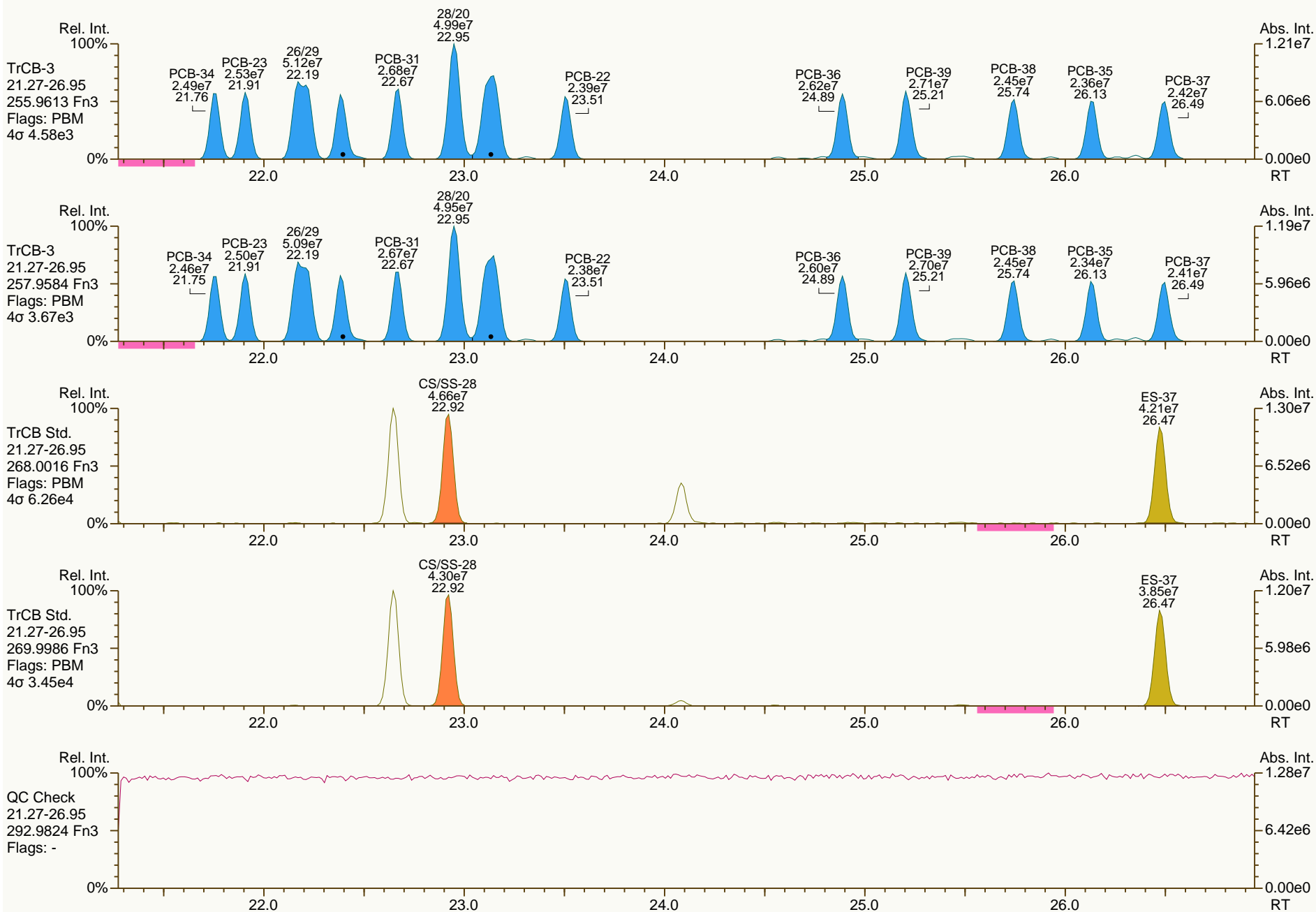
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User: LKB Datafile: 140326X05



SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

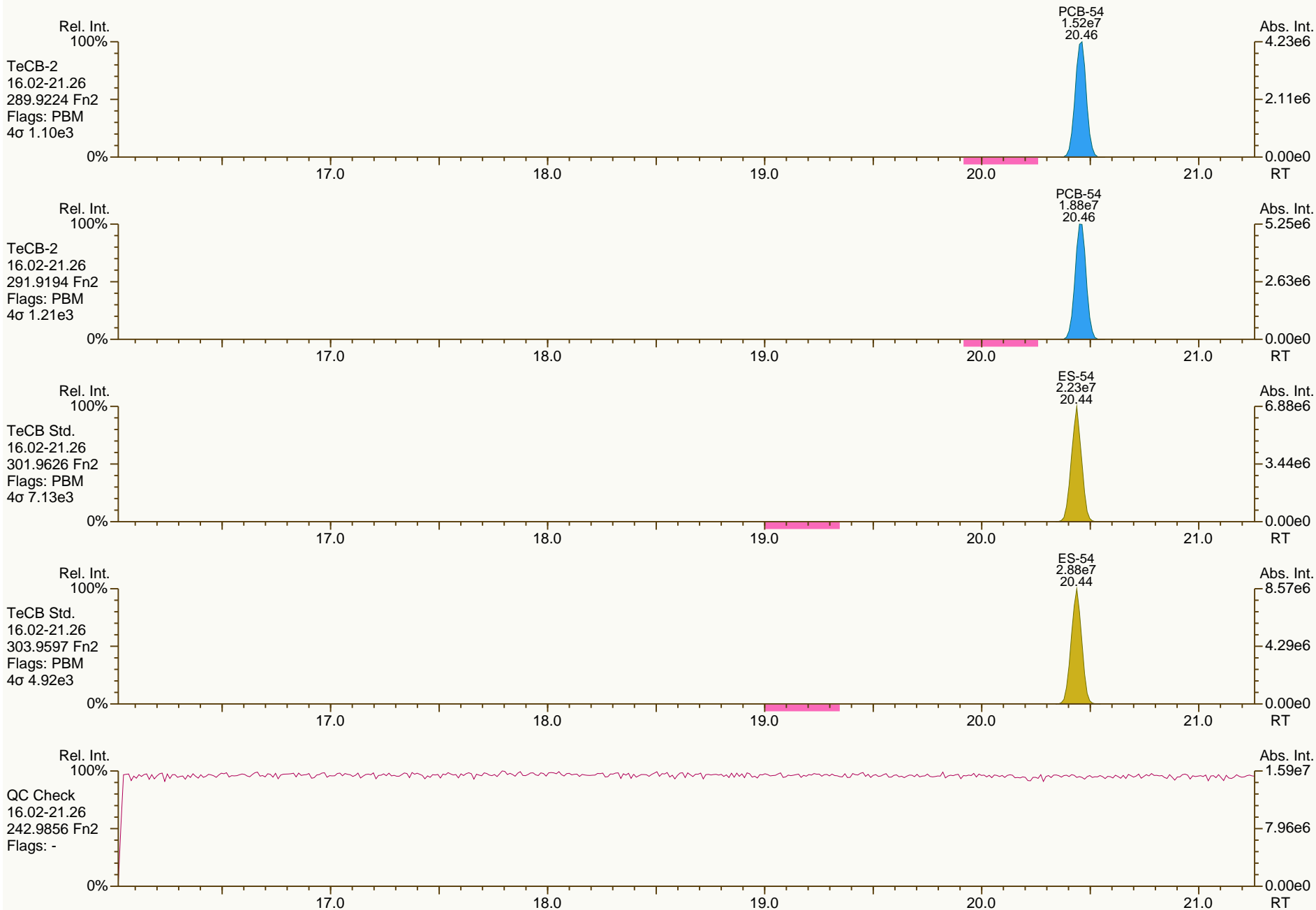
Acq: 26-Mar-2014 18:21:41  
User: LKB Datafile: 140326X05



SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 26-Mar-2014 18:21:41  
 User: LKB Datafile: 140326X05

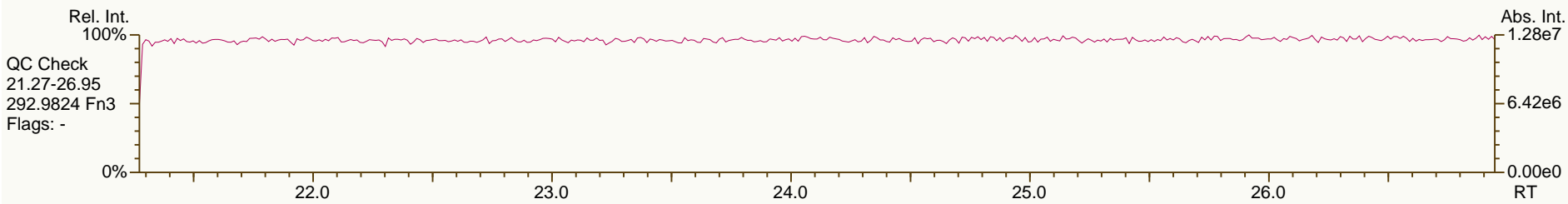
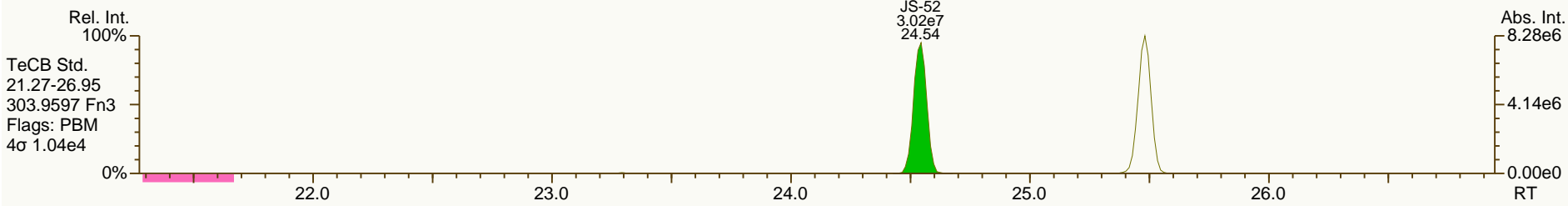
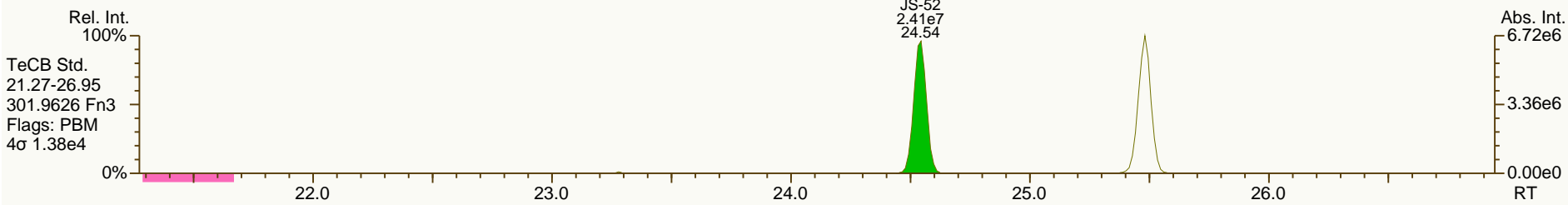
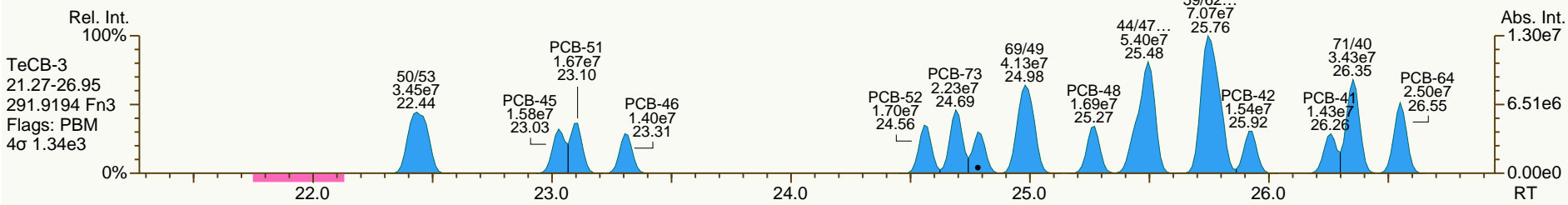
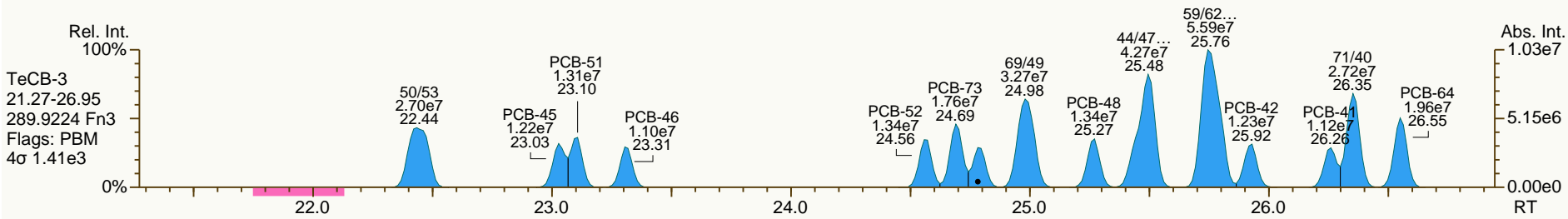




SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

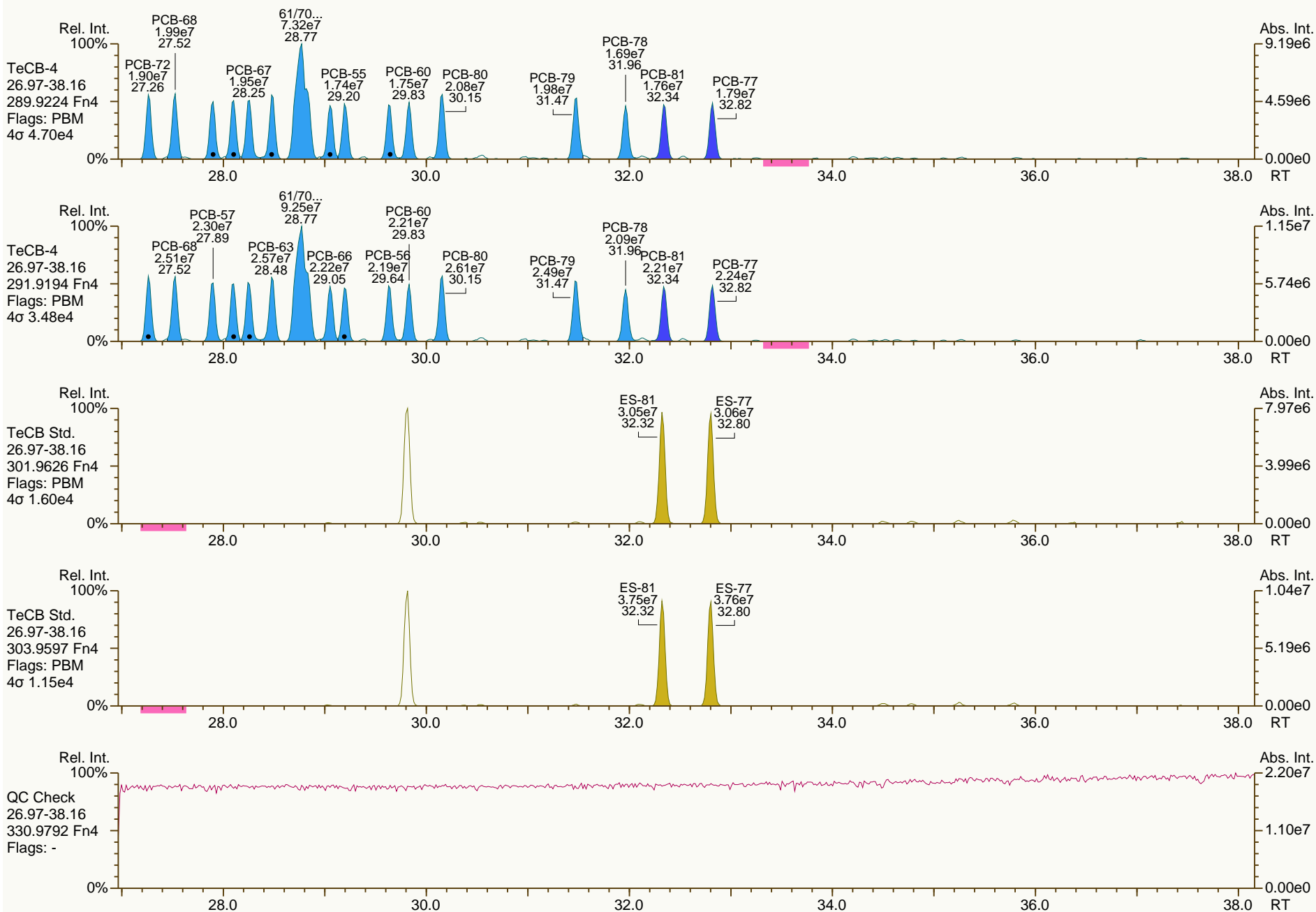
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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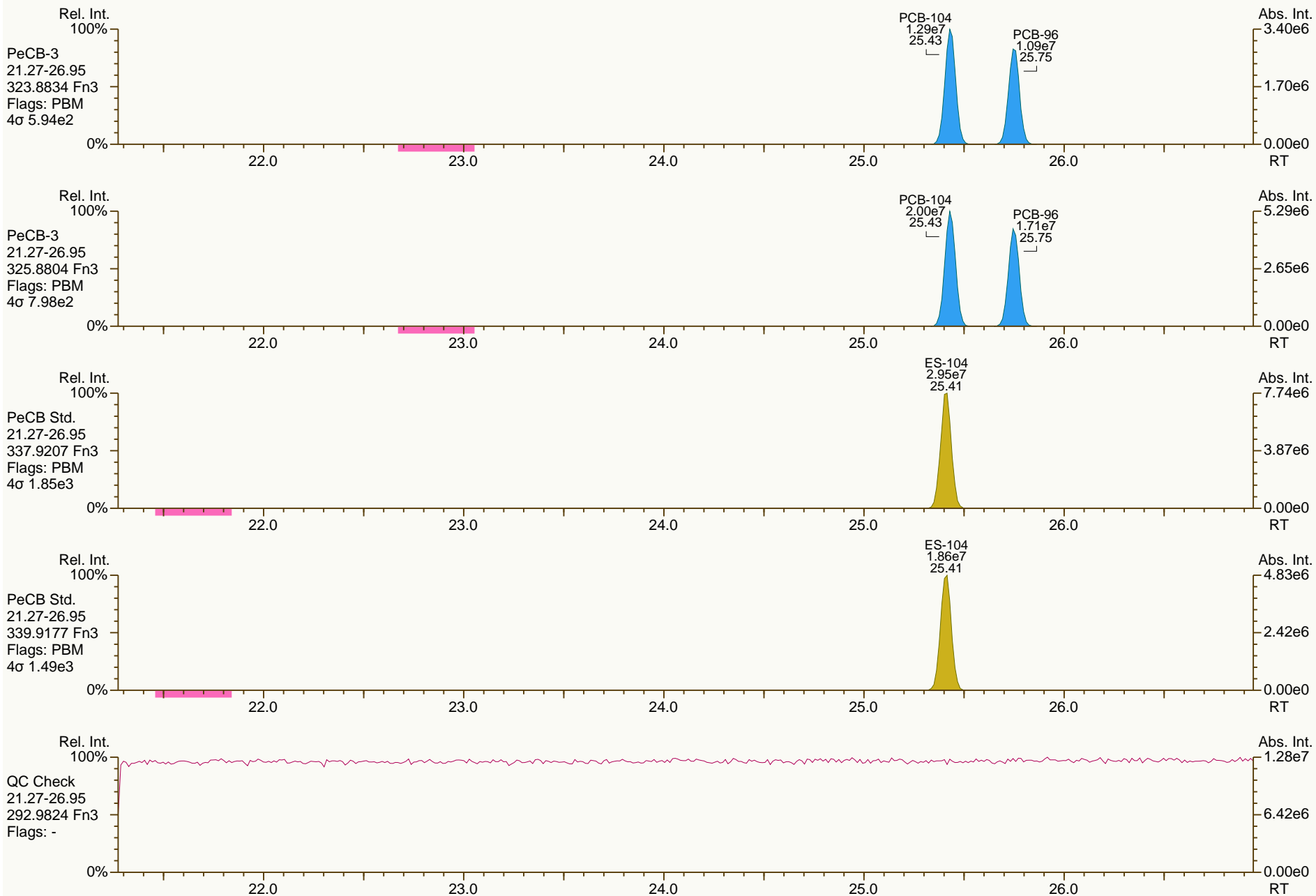
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

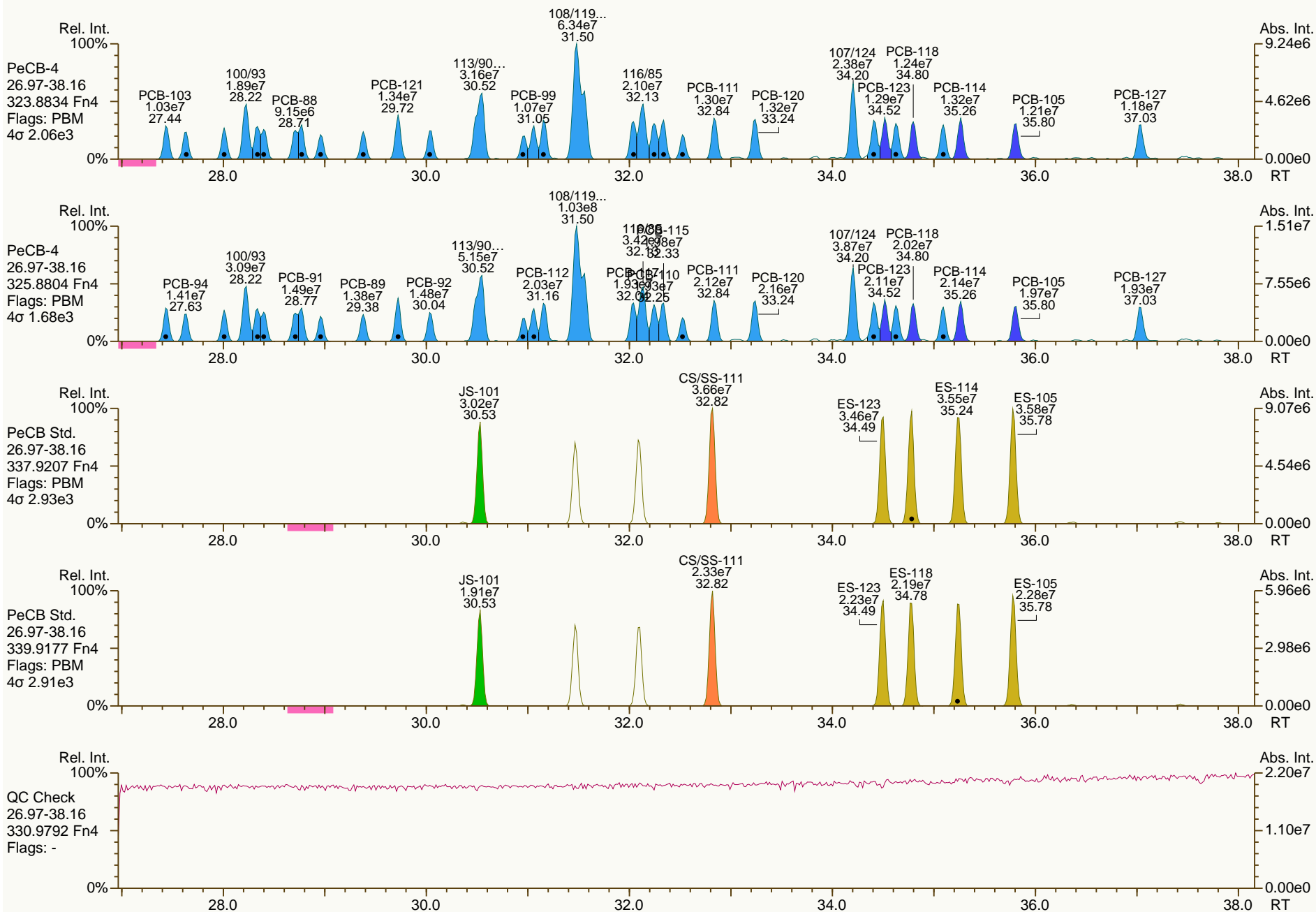
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

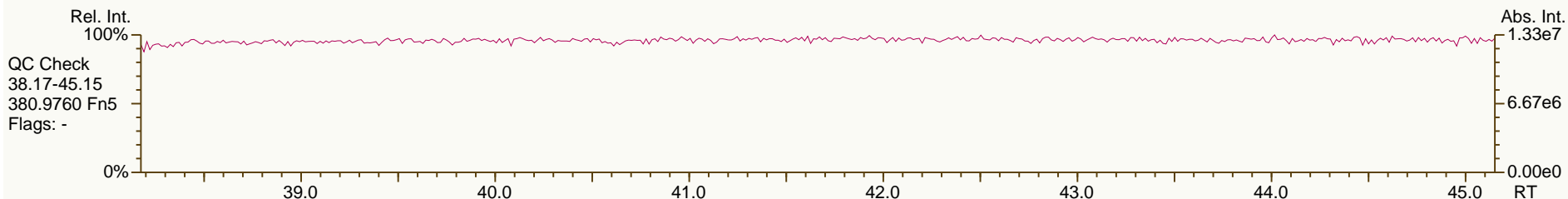
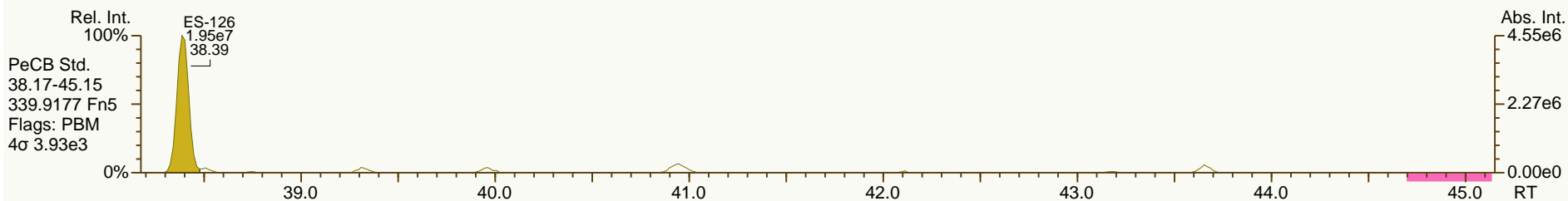
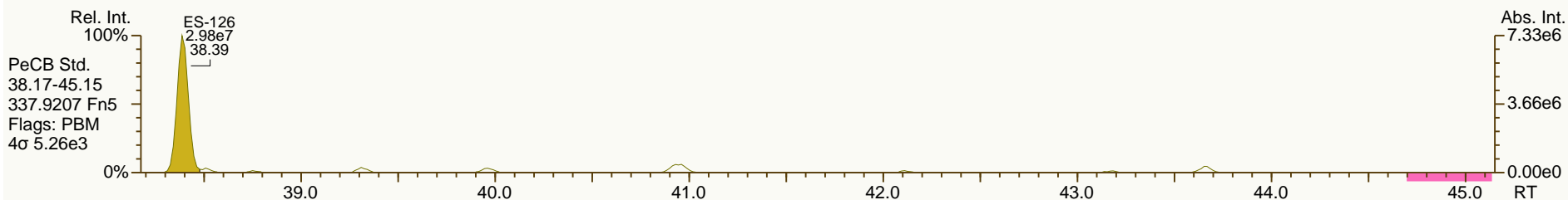
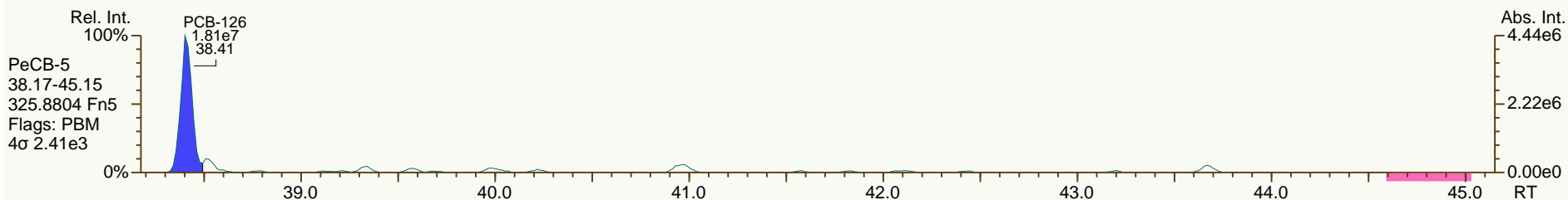
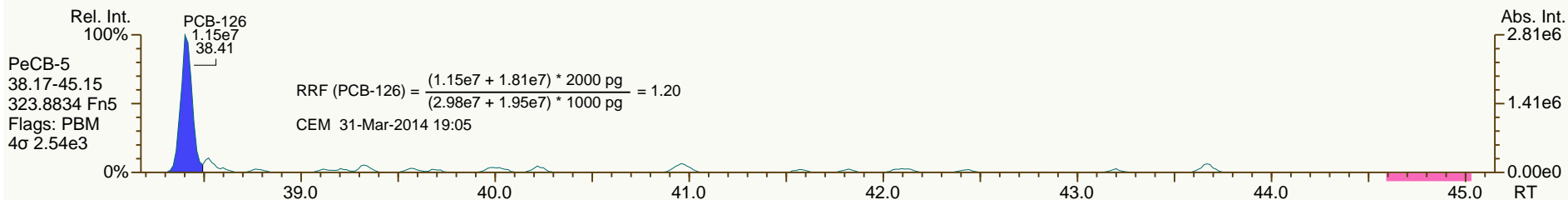
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

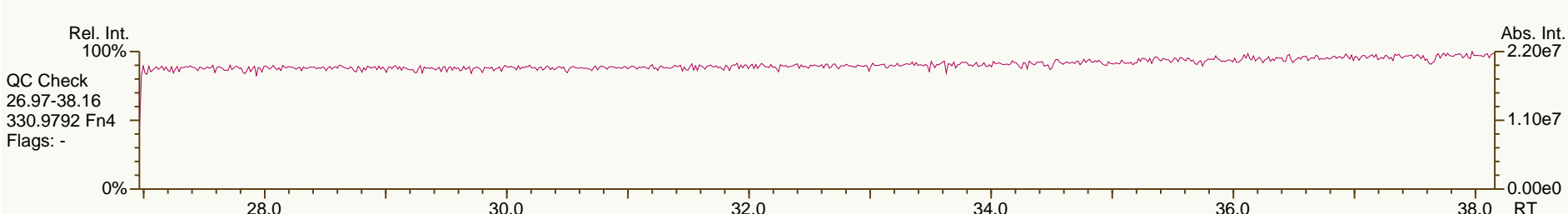
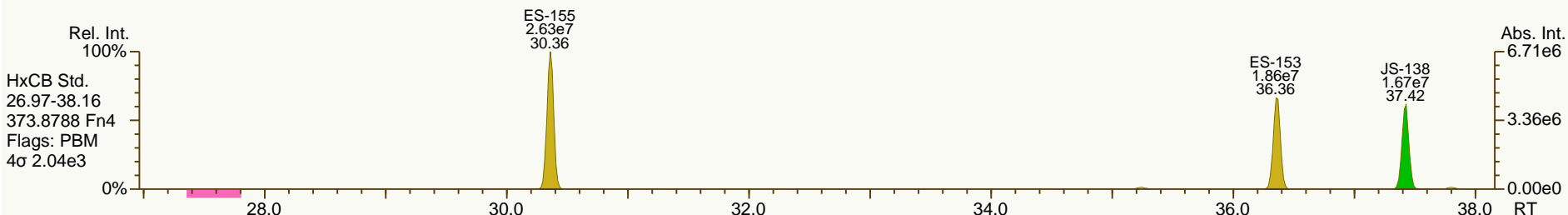
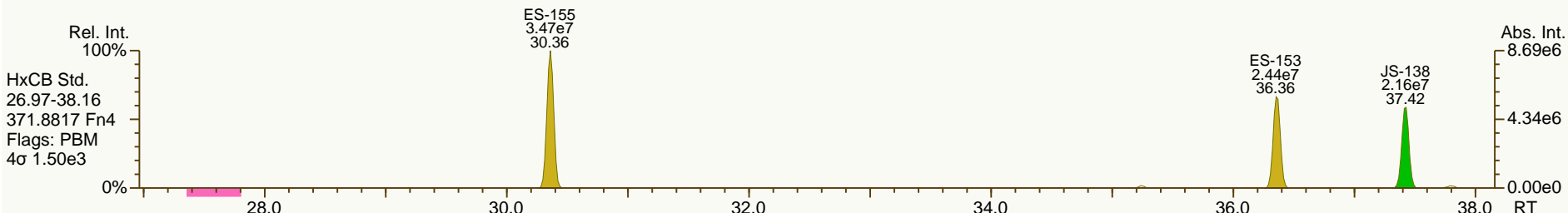
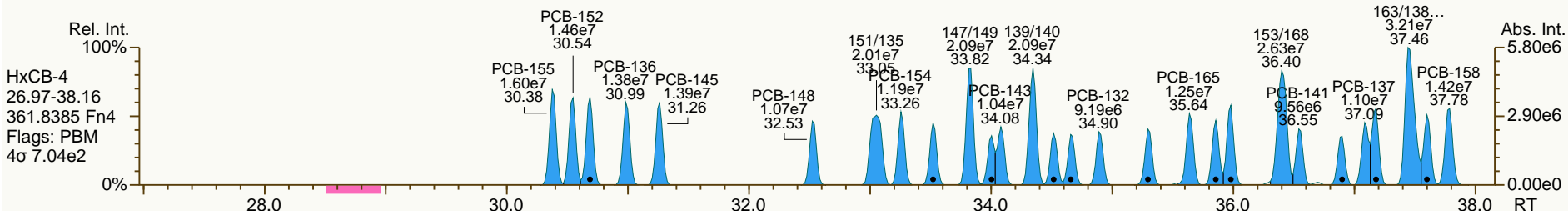
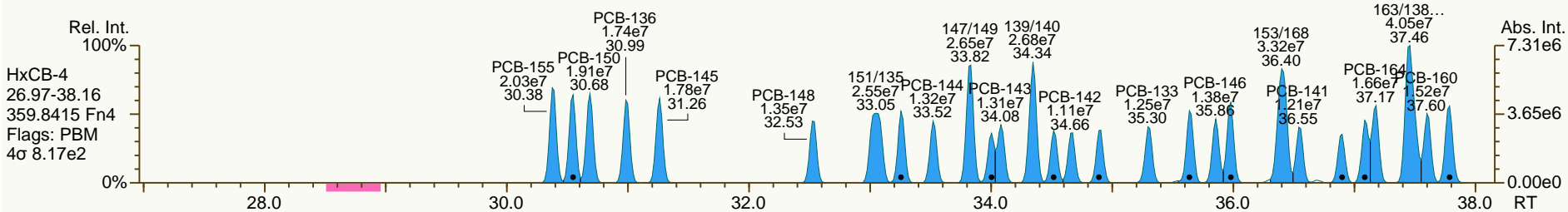
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SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

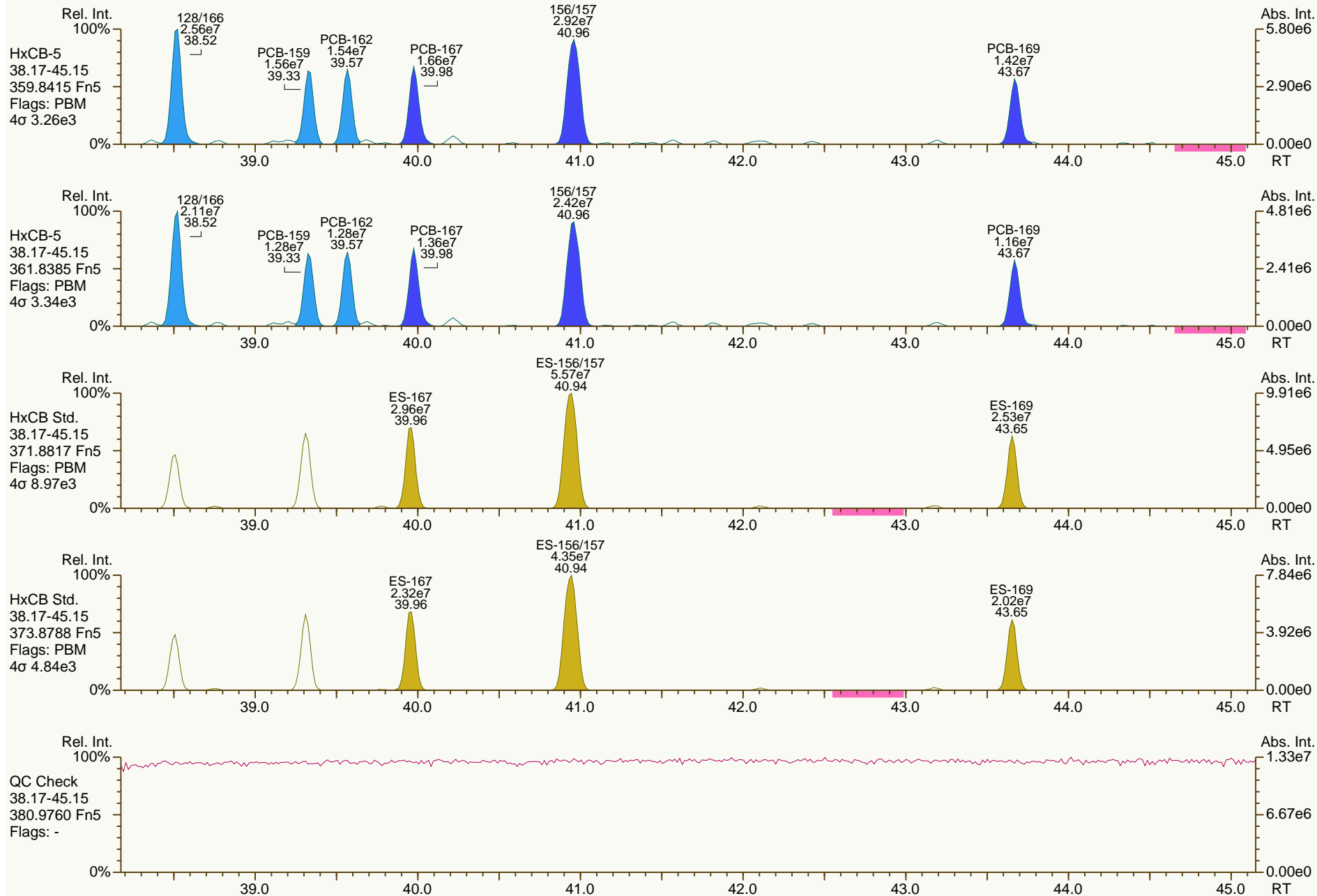
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

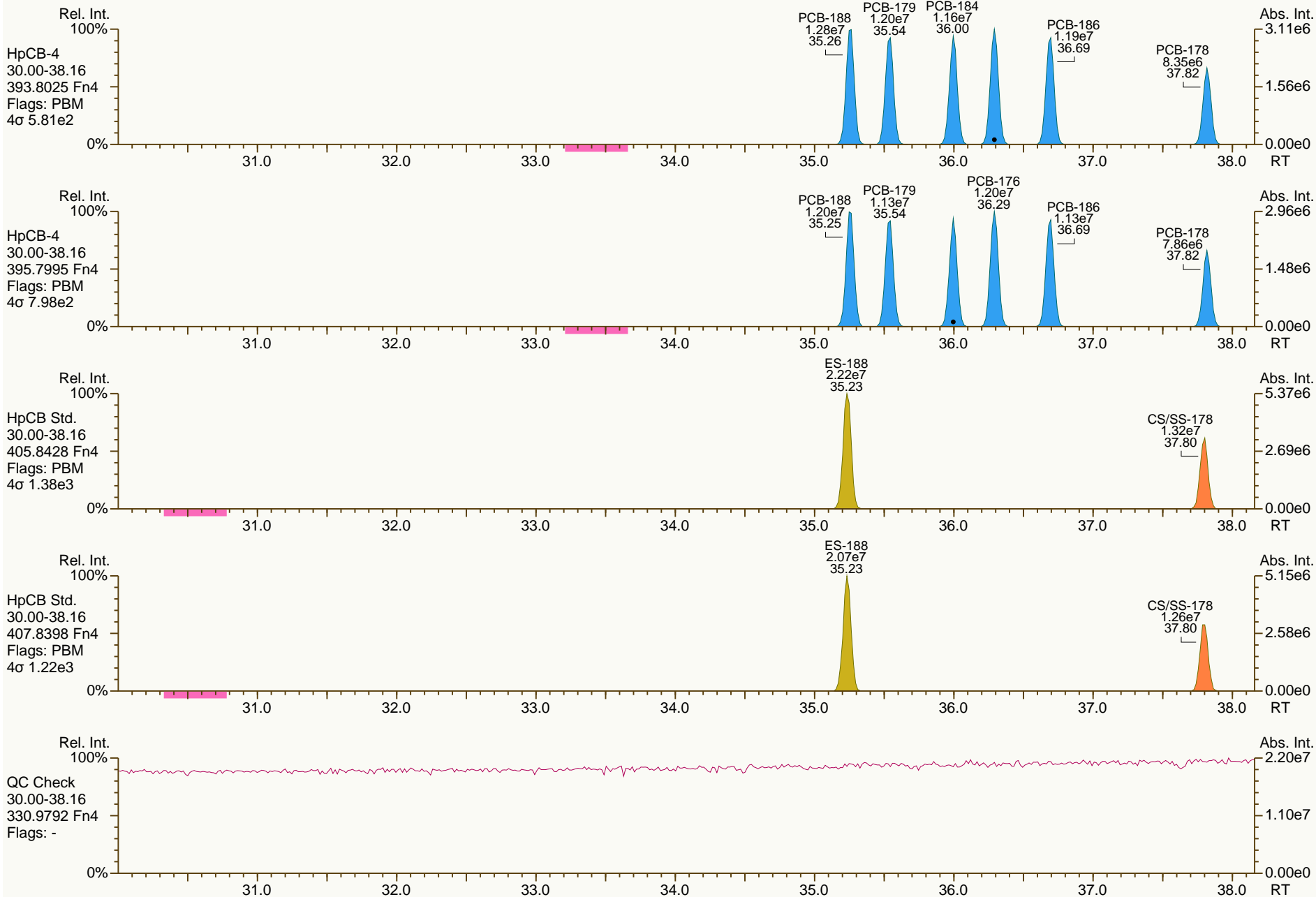
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 26-Mar-2014 18:21:41  
User: LKB Datafile: 140326X05





SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

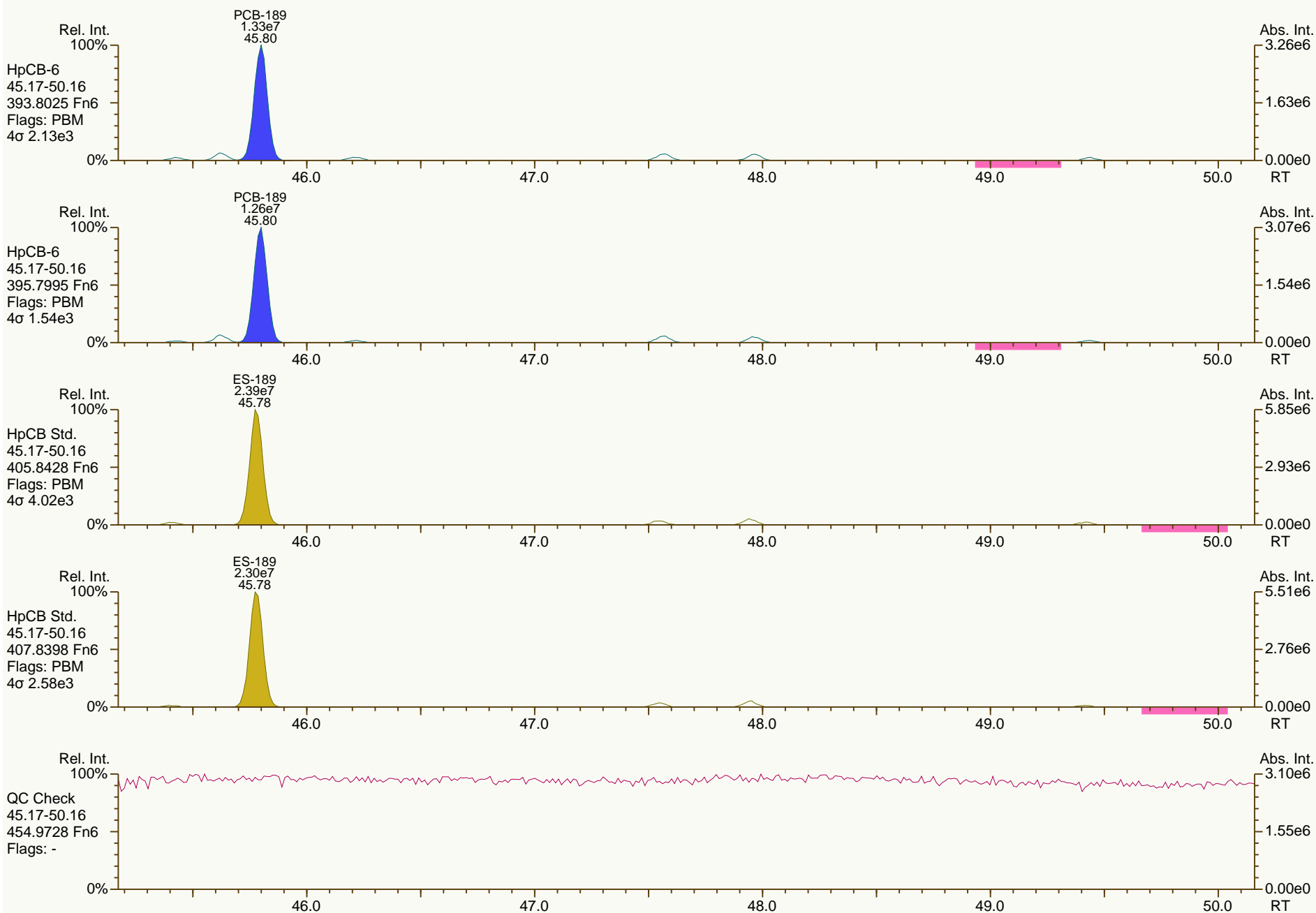
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

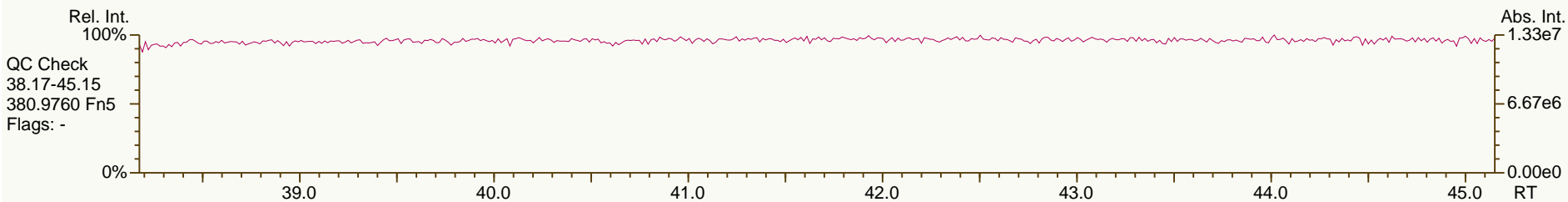
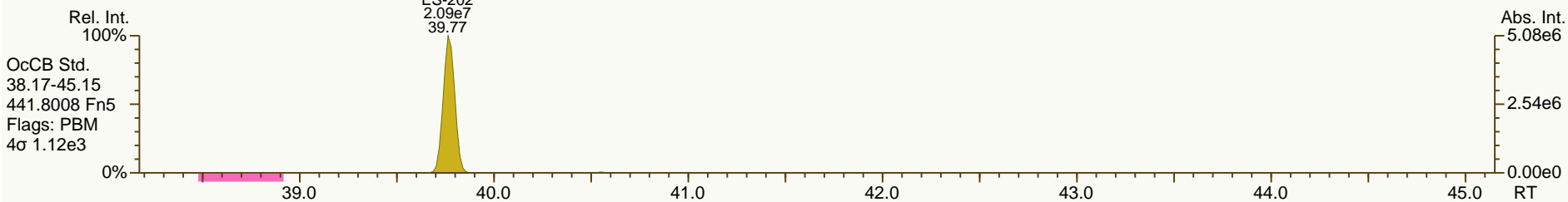
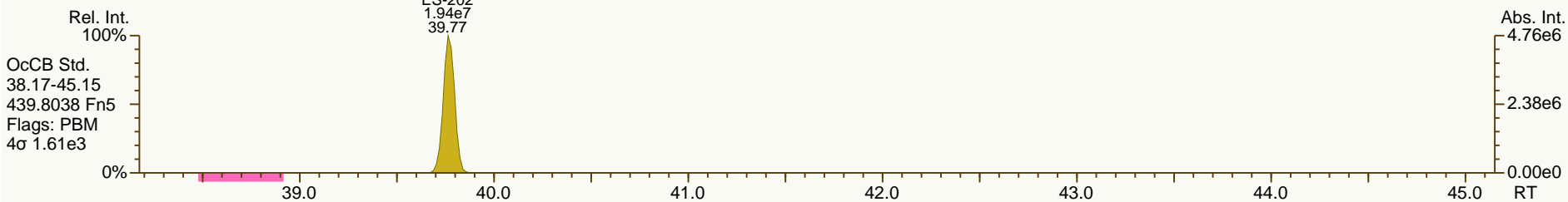
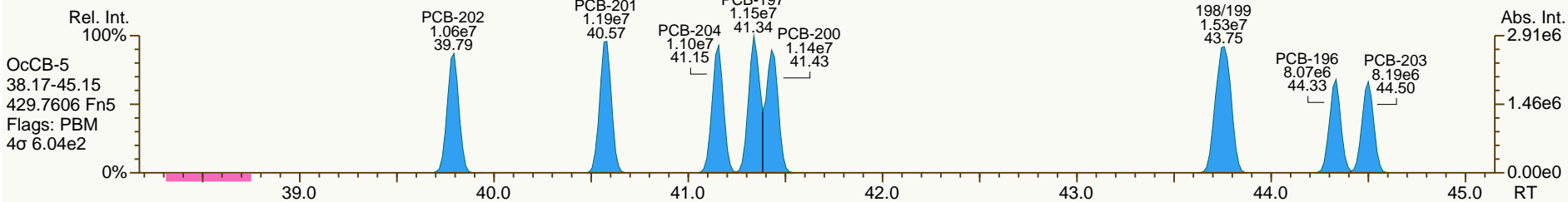
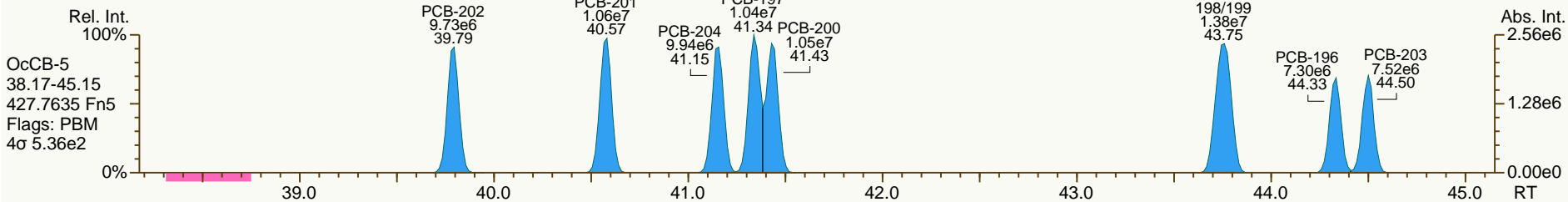
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SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 26-Mar-2014 18:21:41  
 User: LKB Datafile: 140326X05



SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

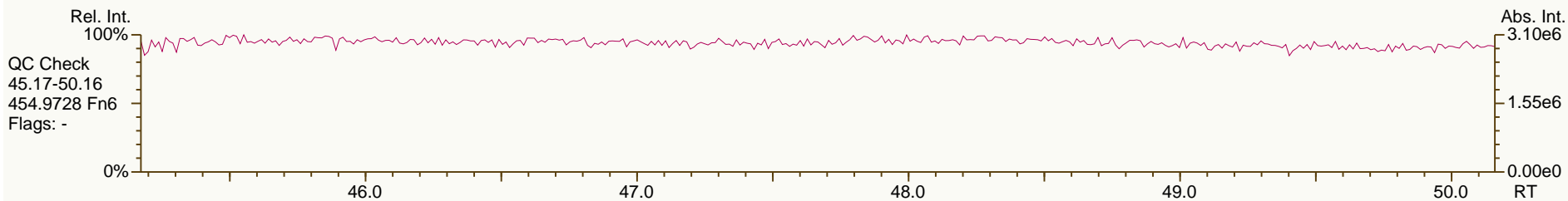
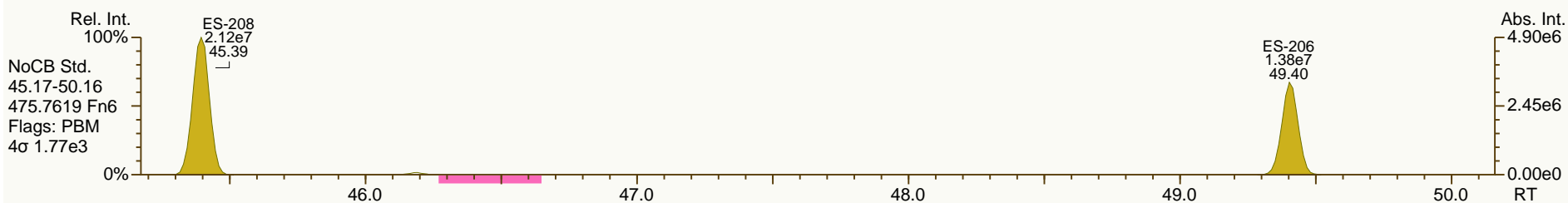
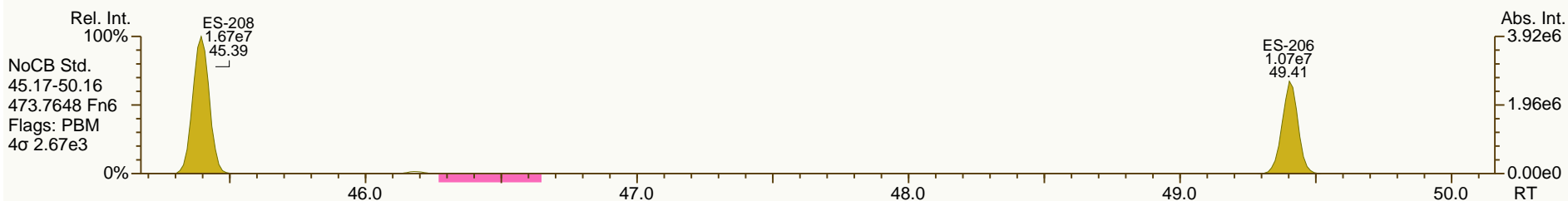
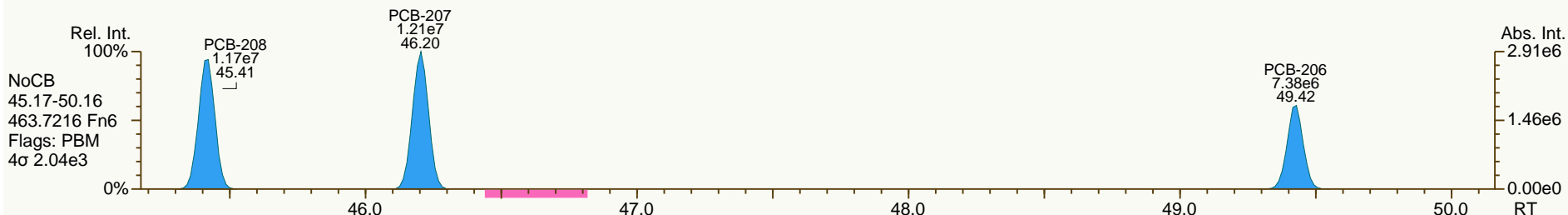
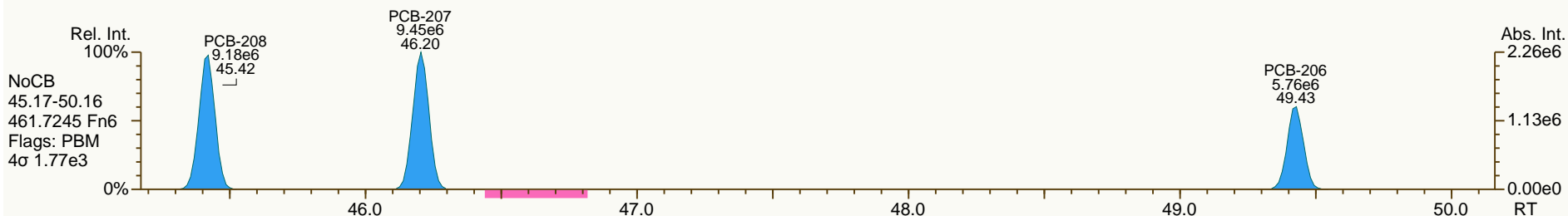
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SGS-AP ID: CS3\_140326\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

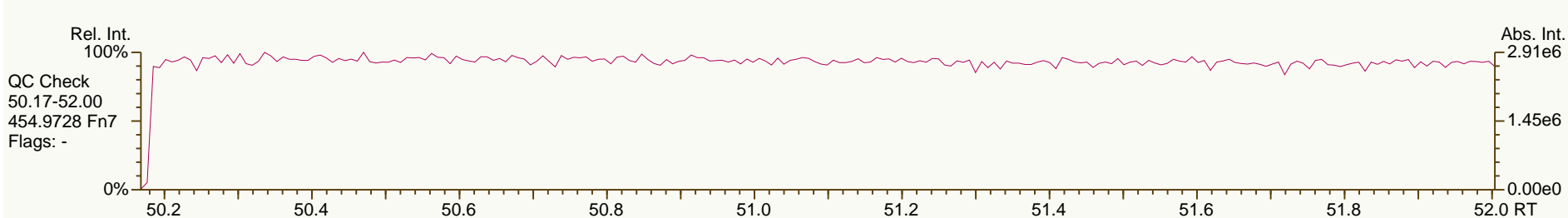
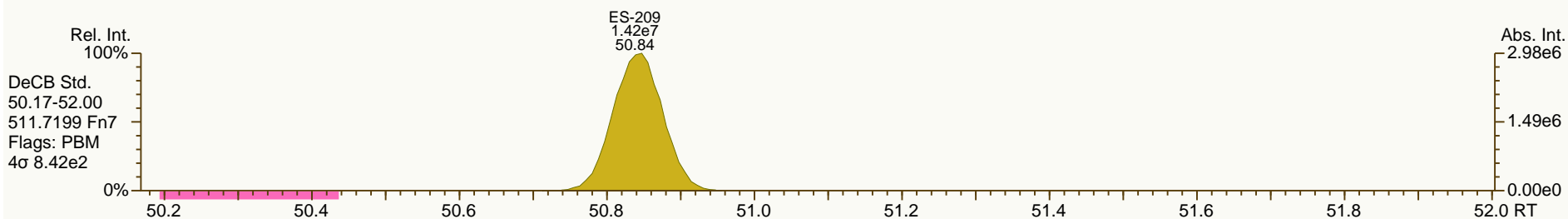
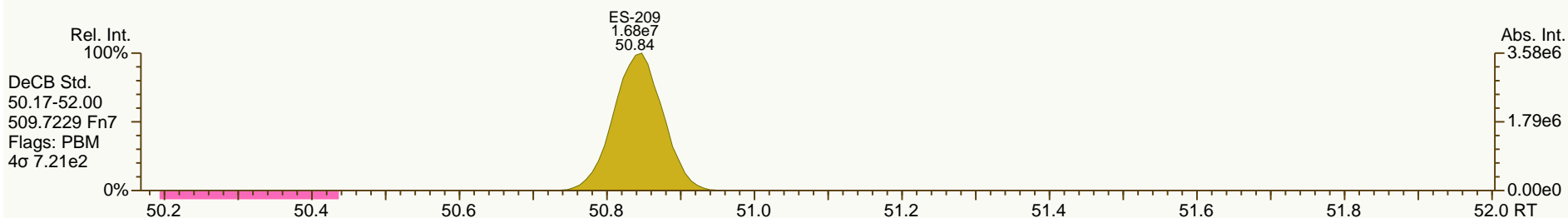
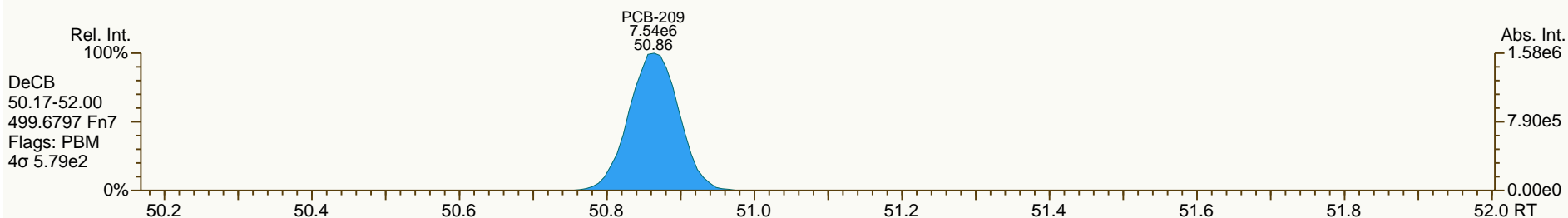
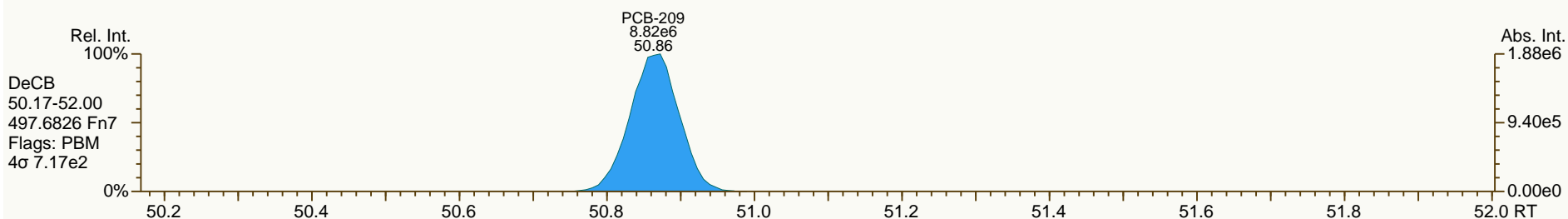
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SGS-AP ID: CS3\_140326\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 26-Mar-2014 18:21:41  
User: LKB Datafile: 140326X05



PCB QC Summary		SGS Environmental Services			Processed: 31-Mar-2014 19:01		
Lab ID:	CS3_140328_PCB_XA						
Acquired:	28-MAR-2014 10:43		ICAL: MM7_PCB_10292013_20DEC2013				
Datafile:	140328X01						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.78	1.35E+07	0.81 Y	1.15	1.16	0.6%	
PCB-81 344'5'-TeCB	32.30	1.38E+07	0.80 Y	1.12	1.16	3.3%	
PCB-105 233'44'-PeCB	35.76	1.09E+07	0.62 Y	1.11	1.13	1.8%	
PCB-114 2344'5'-PeCB	35.22	1.21E+07	0.61 Y	1.20	1.23	2.0%	
PCB-118 23'44'5'-PeCB	34.75	1.17E+07	0.62 Y	1.19	1.19	-0.4%	
PCB-123 23'44'5'-PeCB	34.47	1.19E+07	0.62 Y	1.21	1.20	-0.6%	
PCB-126 33'44'5'-PeCB	38.36	9.40E+06	0.66 Y	1.11	1.16	5.2%	
PCB-156/157 ...-HxCB	40.91	1.77E+07	1.25 Y	1.10	1.07	-2.2%	
PCB-167 23'44'55'-HxCB	39.93	1.03E+07	1.24 Y	1.16	1.16	-0.5%	
PCB-169 33'44'55'-HxCB	43.62	8.27E+06	1.23 Y	1.12	1.09	-2.7%	
PCB-189 233'44'55'-HpCB	45.75	8.56E+06	1.07 Y	1.07	1.08	0.6%	
PCB-209 DeCB	50.80	5.35E+06	1.16 Y	1.11	1.06	-4.5%	
ES PCB-1	11.88	4.26E+07	3.27 Y	1.19	1.12	-6.4%	
ES PCB-3	14.17	3.83E+07	3.31 Y	1.09	1.01	-7.4%	
ES PCB-4	14.42	2.15E+07	1.58 Y	0.52	0.56	7.8%	
ES PCB-15	20.12	4.02E+07	1.60 Y	1.04	1.06	1.5%	
ES PCB-19	17.50	1.98E+07	1.06 Y	0.51	0.52	2.5%	
ES PCB-37	26.44	2.85E+07	1.09 Y	1.66	1.42	-14.4%	
ES PCB-54	20.40	1.88E+07	0.78 Y	0.86	0.94	8.9%	
ES PCB-77	32.76	2.34E+07	0.79 Y	1.38	1.17	-15.7%	
ES PCB-81	32.28	2.39E+07	0.81 Y	1.37	1.19	-12.8%	
ES PCB-104	25.37	1.73E+07	1.64 Y	0.80	0.97	20.6%	
ES PCB-105	35.74	1.92E+07	1.59 Y	1.20	1.08	-10.5%	
ES PCB-114	35.20	1.97E+07	1.64 Y	1.22	1.10	-9.4%	
ES PCB-118	34.73	1.98E+07	1.64 Y	1.16	1.11	-4.3%	
ES PCB-123	34.45	1.98E+07	1.54 Y	1.19	1.11	-6.6%	
ES PCB-126	38.35	1.61E+07	1.51 Y	1.03	0.90	-12.1%	
ES PCB-153	36.31	1.49E+07	1.28 Y	1.11	1.12	0.3%	
ES PCB-155	30.31	2.23E+07	1.26 Y	1.59	1.67	5.1%	
ES PCB-156/157	40.89	3.30E+07	1.28 Y	1.60	1.24	-22.8%	
ES PCB-167	39.91	1.78E+07	1.28 Y	1.67	1.33	-20.1%	
ES PCB-169	43.60	1.51E+07	1.25 Y	1.56	1.13	-27.4%	
ES PCB-170	43.12	1.07E+07	1.07 Y	0.95	1.13	19.8%	
ES PCB-180	42.05	1.28E+07	1.07 Y	1.14	1.36	19.3%	
ES PCB-188	35.19	1.52E+07	1.09 Y	0.94	1.14	21.3%	
ES PCB-189	45.73	1.59E+07	1.00 Y	1.58	1.68	6.4%	
ES PCB-202	39.72	1.36E+07	0.89 Y	0.97	1.02	5.0%	
ES PCB-205	47.89	1.13E+07	0.88 Y	1.24	1.20	-3.9%	
ES PCB-206	49.35	7.83E+06	0.83 Y	0.83	0.83	0.2%	
ES PCB-208	45.34	1.28E+07	0.82 Y	1.17	1.36	16.0%	
ES PCB-209	50.78	1.00E+07	1.16 Y	1.11	1.07	-3.9%	

PCB QC Summary		SGS Environmental Services			Processed: 31-Mar-2014 19:01		
Lab ID:	CS3_140328_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013					
Acquired:	28-MAR-2014 10:43						
Datafile:	140328X01						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.89	3.33E+07	1.10 Y	1.11	1.17	5.1%	
SS PCB-111	32.77	2.15E+07	1.60 Y	1.03	1.09	5.6%	
SS PCB-178	37.75	8.91E+06	1.08 Y	0.62	0.58	-5.5%	
CS PCB-28	22.89	3.33E+07	1.10 Y	1.85	1.66	-10.0%	
CS PCB-111	32.77	2.15E+07	1.60 Y	1.22	1.20	-1.4%	
CS PCB-178	37.75	8.91E+06	1.08 Y	0.58	0.67	14.6%	
JS PCB-9	16.39	3.81E+07	1.58 Y		-	-	
JS PCB-52	24.50	2.00E+07	0.83 Y		-	-	
JS PCB-101	30.48	1.79E+07	1.67 Y		-	-	
JS PCB-138	37.37	1.34E+07	1.27 Y		-	-	
JS PCB-194	47.49	9.42E+06	0.91 Y		-	-	
PCB-1 2-MoCB	11.89	2.32E+07	3.26 Y	0.95	1.09	14.3%	
PCB-3 4-MoCB	14.18	2.25E+07	3.25 Y	1.01	1.17	16.3%	
PCB-4 22'-DiCB	14.43	1.26E+07	1.58 Y	1.23	1.17	-4.8%	
PCB-15 44'-DiCB	20.14	2.18E+07	1.65 Y	1.02	1.08	6.3%	
PCB-19 22'6'-TrCB	17.51	1.12E+07	1.08 Y	1.15	1.13	-1.5%	
PCB-37 344'-TrCB	26.46	1.75E+07	1.00 Y	1.08	1.23	13.7%	
PCB-54 22'66'-TeCB	20.42	1.24E+07	0.81 Y	1.35	1.32	-2.6%	
PCB-104 22'466'-PeCB	25.39	1.20E+07	0.64 Y	1.43	1.38	-3.6%	
PCB-155 22'44'66'-HxCB	30.34	1.30E+07	1.25 Y	1.26	1.17	-7.3%	
PCB-188 22'34'566'-HpCB	35.21	8.64E+06	1.07 Y	1.27	1.13	-10.6%	
PCB-202 22'33'55'66'-OcCB	39.74	6.70E+06	0.89 Y	1.05	0.99	-6.4%	
PCB-205 233'44'55'6'-OcCB	47.91	5.83E+06	0.91 Y	1.06	1.04	-2.2%	
PCB-208 22'33'455'66'-NoCB	45.36	7.08E+06	0.77 Y	1.12	1.10	-1.7%	
PCB-206 22'33'44'55'6'-NoCB	49.37	4.32E+06	0.75 Y	1.11	1.10	-1.0%	
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				-		-	
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				-		-	
				-		-	
				-		-	
				-		-	
				-		-	



PCB QC Summary - Ax2 Detail				Processed: 31-Mar-2014 19:01			
Lab ID:	CS3_140328_PCB_XA			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 10:43						
Datafile:	140328X01						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.89	2.32E+07	3.26 Y	0.95	-	-	-
PCB-2 3-MoCB	14.00	2.27E+07	3.28 Y	1.03	1.18	14.5%	
PCB-3 4-MoCB	14.18	2.25E+07	3.25 Y	1.01	-	-	
PCB-4 22'-DiCB	14.43	1.26E+07	1.58 Y	1.23	-	-	
PCB-10 26-DiCB	14.61	2.05E+07	1.61 Y	1.98	1.91	-3.7%	
PCB-9 25-DiCB	16.41	1.93E+07	1.67 Y	0.95	0.96	1.5%	
PCB-7 24-DiCB	16.58	2.27E+07	1.64 Y	1.05	1.13	7.7%	
PCB-6 23'-DiCB	16.80	2.13E+07	1.69 Y	1.00	1.06	6.1%	
PCB-5 23-DiCB	17.11	2.17E+07	1.68 Y	1.00	1.08	7.6%	
PCB-8 24'-DiCB	17.22	2.22E+07	1.66 Y	1.03	1.10	6.7%	
PCB-14 35-DiCB	18.78	2.53E+07	1.63 Y	1.18	1.26	6.6%	
PCB-11 33'-DiCB	19.56	2.14E+07	1.64 Y	1.01	1.06	5.2%	
PCB-13/12 34'/34-DiCB	19.85	4.26E+07	1.67 Y	0.99	1.06	7.0%	
PCB-15 44'-DiCB	20.14	2.18E+07	1.65 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.51	1.12E+07	1.08 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.27	3.08E+07	1.06 Y	1.54	1.56	1.5%	
PCB-17 22'4-TrCB	19.67	1.31E+07	1.04 Y	1.31	1.33	1.6%	
PCB-27 23'6-TrCB	19.87	1.79E+07	1.06 Y	1.82	1.81	-0.2%	
PCB-24 236-TrCB	20.00	1.70E+07	1.05 Y	1.72	1.72	0.1%	
PCB-16 22'3-TrCB	20.09	1.03E+07	1.05 Y	1.01	1.04	3.3%	
PCB-32 24'6-TrCB	20.57	1.91E+07	1.07 Y	1.92	1.93	0.5%	
PCB-34 23'5'-TrCB	21.72	1.90E+07	1.02 Y	1.14	1.33	17.3%	
PCB-23 235-TrCB	21.87	1.92E+07	1.00 Y	1.16	1.35	17.0%	
PCB-26/29 23'5/245-TrCB	22.16	3.94E+07	1.01 Y	1.17	1.38	18.0%	
PCB-25 23'4-TrCB	22.36	1.96E+07	1.00 Y	1.16	1.37	18.8%	
PCB-31 24'5-TrCB	22.63	2.02E+07	1.00 Y	1.23	1.42	15.7%	
PCB-28/20 244'/233'-TrCB	22.92	3.71E+07	1.02 Y	1.13	1.30	15.1%	
PCB-21/33 234/23'4'-TrCB	23.10	3.83E+07	1.01 Y	1.17	1.35	14.7%	
PCB-22 234'-TrCB	23.47	1.79E+07	1.01 Y	1.08	1.26	16.5%	
PCB-36 33'5-TrCB	24.85	1.91E+07	1.01 Y	1.17	1.34	14.7%	
PCB-39 34'5-TrCB	25.17	1.99E+07	1.00 Y	1.21	1.40	15.7%	
PCB-38 345-TrCB	25.71	1.79E+07	1.02 Y	1.10	1.26	13.6%	
PCB-35 33'4-TrCB	26.10	1.68E+07	1.00 Y	1.04	1.18	13.2%	
PCB-37 344'-TrCB	26.46	1.75E+07	1.00 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.42	1.24E+07	0.81 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.41	2.31E+07	0.79 Y	0.88	0.97	10.6%	
PCB-45 22'36'-TeCB	22.99	9.77E+06	0.77 Y	0.77	0.82	6.8%	
PCB-51 22'46'-TeCB	23.06	1.16E+07	0.79 Y	0.86	0.98	13.6%	
PCB-46 22'36'-TeCB	23.27	9.28E+06	0.79 Y	0.70	0.78	11.3%	
PCB-52 22'55'-TeCB	24.53	1.10E+07	0.78 Y	0.84	0.92	9.4%	
PCB-73 23'5'6'-TeCB	24.65	1.46E+07	0.79 Y	1.11	1.23	10.3%	

Lab ID: - Ax2 Detail			Processed: 31-Mar-2014 19:01			
Lab ID:	CS3_140328_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	28-MAR-2014 10:43					
Datafile:	140328X01					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.75	9.44E+06	0.78 Y	0.71	0.79	11.4%
PCB-69/49 23'46'/22'45'-TeCB	24.95	2.70E+07	0.79 Y	1.02	1.13	10.8%
PCB-48 22'45'-TeCB	25.23	1.12E+07	0.77 Y	0.84	0.94	12.0%
PCB-44/47/65 ...-TeCB	25.44	3.55E+07	0.78 Y	0.90	0.99	9.6%
PCB-59/62/75 ...-TeCB	25.72	4.59E+07	0.79 Y	1.17	1.28	10.0%
PCB-42 22'34'-TeCB	25.89	1.01E+07	0.79 Y	0.76	0.85	11.3%
PCB-41 22'34'-TeCB	26.22	9.13E+06	0.79 Y	0.69	0.77	10.1%
PCB-71/40 23'4'6'/22'33'-TeCB	26.31	2.28E+07	0.79 Y	0.86	0.96	11.3%
PCB-64 23'46'-TeCB	26.51	1.62E+07	0.79 Y	1.22	1.35	10.9%
PCB-72 23'55'-TeCB	27.23	1.62E+07	0.80 Y	1.21	1.36	12.2%
PCB-68 23'45'-TeCB	27.48	1.70E+07	0.79 Y	1.28	1.42	11.3%
PCB-57 23'35'-TeCB	27.85	1.53E+07	0.79 Y	1.16	1.28	9.9%
PCB-58 23'35'-TeCB	28.06	1.58E+07	0.78 Y	1.18	1.33	12.5%
PCB-67 23'45'-TeCB	28.21	1.62E+07	0.78 Y	1.26	1.36	7.7%
PCB-63 23'45'-TeCB	28.44	1.70E+07	0.78 Y	1.30	1.43	10.1%
PCB-61/70/74/76 ...-TeCB	28.73	6.16E+07	0.78 Y	1.20	1.29	7.7%
PCB-66 23'44'-TeCB	29.01	1.47E+07	0.78 Y	1.10	1.23	11.5%
PCB-55 23'34'-TeCB	29.16	1.45E+07	0.78 Y	1.12	1.22	8.7%
PCB-56 23'34'-TeCB	29.60	1.43E+07	0.79 Y	1.11	1.20	7.7%
PCB-60 23'44'-TeCB	29.79	1.44E+07	0.79 Y	1.14	1.20	6.1%
PCB-80 33'55'-TeCB	30.11	1.71E+07	0.78 Y	1.31	1.43	8.9%
PCB-79 33'45'-TeCB	31.43	1.63E+07	0.80 Y	1.31	1.36	4.4%
PCB-78 33'45'-TeCB	31.92	1.36E+07	0.79 Y	1.06	1.14	7.2%
PCB-104 22'466'-PeCB	25.39	1.20E+07	0.64 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.71	1.02E+07	0.64 Y	1.23	1.18	-3.8%
PCB-103 22'45'6'-PeCB	27.40	1.02E+07	0.61 Y	0.93	1.03	10.2%
PCB-94 22'356'-PeCB	27.59	8.57E+06	0.61 Y	0.80	0.87	8.2%
PCB-95 22'35'6'-PeCB	27.97	9.05E+06	0.63 Y	0.87	0.91	5.5%
PCB-100/93 22'44'6'/22'356'-PeC	28.18	1.83E+07	0.61 Y	0.86	0.93	7.1%
PCB-102 22'456'-PeCB	28.30	1.07E+07	0.62 Y	0.97	1.09	12.2%
PCB-98 22'34'6'-PeCB	28.36	7.77E+06	0.62 Y	0.76	0.78	3.5%
PCB-88 22'346'-PeCB	28.66	8.39E+06	0.61 Y	0.80	0.85	6.2%
PCB-91 22'34'6'-PeCB	28.73	9.79E+06	0.62 Y	0.94	0.99	4.8%
PCB-84 22'33'6'-PeCB	28.92	7.69E+06	0.61 Y	0.72	0.78	8.6%
PCB-89 22'346'-PeCB	29.34	8.02E+06	0.63 Y	0.76	0.81	6.2%
PCB-121 23'45'6'-PeCB	29.68	1.29E+07	0.61 Y	1.20	1.31	9.0%
PCB-92 22'355'-PeCB	30.00	8.77E+06	0.61 Y	0.82	0.89	8.0%
PCB-113/90/101 ...-PeCB	30.48	3.07E+07	0.62 Y	0.99	1.03	4.8%
PCB-83 22'33'5'-PeCB	30.92	7.51E+06	0.61 Y	0.71	0.76	6.1%

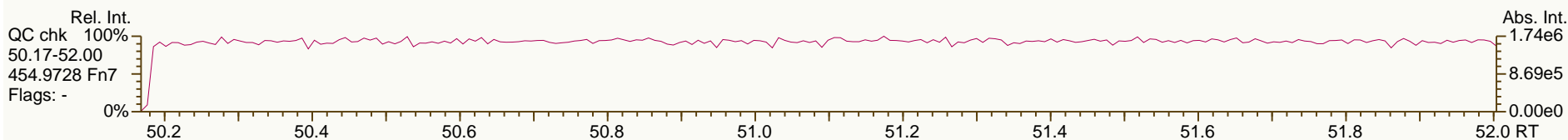
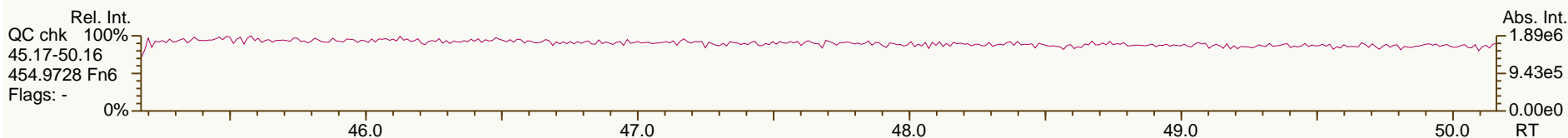
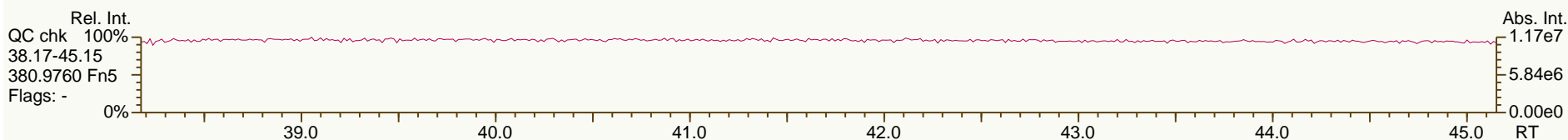
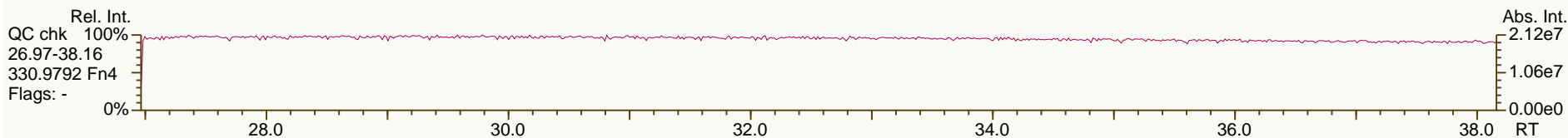
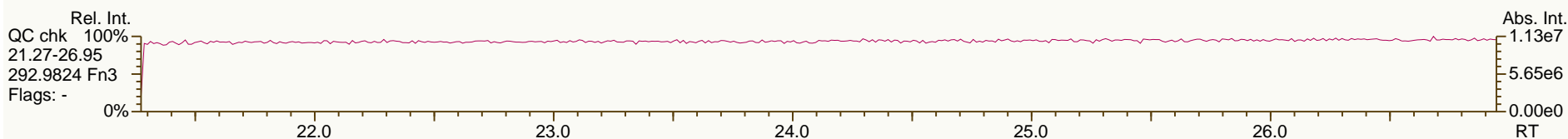
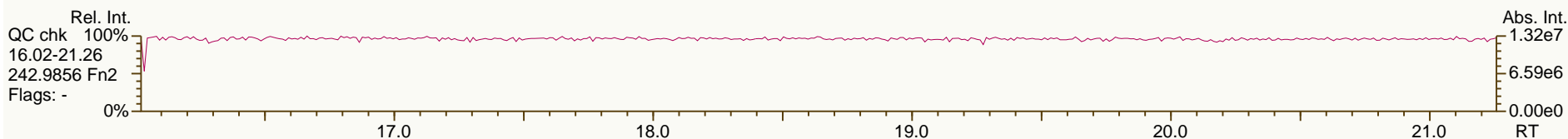
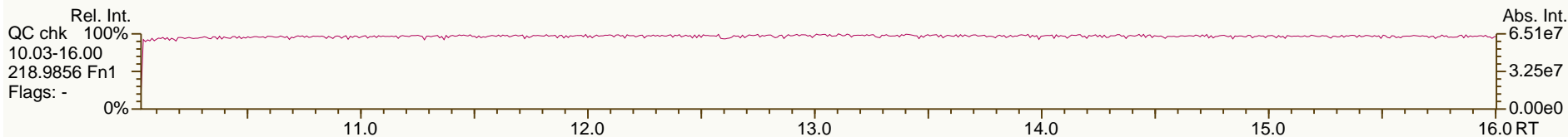
Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 19:01			
Lab ID:	CS3_140328_PCB_XA			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 10:43						
Datafile:	140328X01						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	31.01	9.46E+06	0.62 Y	0.92	0.96		3.7%
PCB-112 233'56-PeCB	31.12	1.23E+07	0.62 Y	1.17	1.25		6.8%
PCB-108/119/86/97/125...-PeCB	31.46	6.10E+07	0.62 Y	0.98	1.03		4.8%
PCB-117 234'56-PeCB	31.99	1.08E+07	0.63 Y	1.14	1.09		-3.9%
PCB-116/85 23456/22'344'-PeCB	32.09	1.84E+07	0.62 Y	0.94	0.93		-1.0%
PCB-110 233'4'6-PeCB	32.20	1.13E+07	0.62 Y	1.12	1.14		2.0%
PCB-115 2344'6-PeCB	32.29	1.21E+07	0.61 Y	1.16	1.22		5.5%
PCB-82 22'33'4-PeCB	32.48	7.25E+06	0.63 Y	0.70	0.73		5.1%
PCB-111 233'55'-PeCB	32.80	1.24E+07	0.61 Y	1.22	1.25		2.4%
PCB-120 23'455'-PeCB	33.19	1.25E+07	0.62 Y	1.21	1.27		4.5%
PCB-107/124 ...-PeCB	34.16	2.21E+07	0.61 Y	1.10	1.12		1.9%
PCB-109 233'46-PeCB	34.37	1.25E+07	0.61 Y	1.25	1.26		0.9%
PCB-106 233'45-PeCB	34.59	1.10E+07	0.63 Y	1.11	1.11		0.1%
PCB-122 233'4'5'-PeCB	35.05	1.02E+07	0.61 Y	0.99	1.03		3.8%
PCB-127 33'455'-PeCB	36.99	1.10E+07	0.63 Y	1.10	1.14		4.1%
PCB-155 22'44'66'-HxCB	30.34	1.30E+07	1.25 Y	1.26	-		-
PCB-152 22'3566'-HxCB	30.50	1.20E+07	1.29 Y	1.17	1.08		-8.3%
PCB-150 22'34'66'-HxCB	30.64	1.20E+07	1.25 Y	1.18	1.08		-8.5%
PCB-136 22'33'66'-HxCB	30.95	1.10E+07	1.26 Y	1.07	0.99		-7.3%
PCB-145 22'3466'-HxCB	31.22	1.15E+07	1.30 Y	1.11	1.03		-7.9%
PCB-148 22'34'56'-HxCB	32.48	8.48E+06	1.24 Y	1.18	1.14		-4.0%
PCB-151/135 ...-HxCB	33.01	1.64E+07	1.26 Y	1.14	1.10		-3.7%
PCB-154 22'44'56'-HxCB	33.21	9.69E+06	1.26 Y	1.34	1.30		-3.4%
PCB-144 22'345'6-HxCB	33.48	8.32E+06	1.26 Y	1.18	1.11		-5.8%
PCB-147/149 ...-HxCB	33.78	1.64E+07	1.27 Y	1.18	1.10		-6.5%
PCB-134 22'33'56-HxCB	33.95	5.94E+06	1.27 Y	0.92	0.79		-14.0%
PCB-143 22'3456'-HxCB	34.03	8.47E+06	1.27 Y	1.13	1.13		0.5%
PCB-139/140 ...-HxCB	34.30	1.70E+07	1.27 Y	1.21	1.14		-5.8%
PCB-131 22'33'46-HxCB	34.47	7.09E+06	1.28 Y	1.03	0.95		-7.5%
PCB-142 22'3456-HxCB	34.62	7.00E+06	1.27 Y	0.99	0.94		-5.3%
PCB-132 22'33'46'-HxCB	34.85	7.27E+06	1.29 Y	1.03	0.97		-5.6%
PCB-133 22'33'55'-HxCB	35.26	7.78E+06	1.26 Y	1.13	1.04		-7.9%
PCB-165 233'55'6-HxCB	35.59	9.84E+06	1.28 Y	1.41	1.32		-6.5%
PCB-146 22'34'55'-HxCB	35.81	8.55E+06	1.27 Y	1.20	1.14		-4.7%
PCB-161 233'45'6-HxCB	35.93	1.07E+07	1.25 Y	1.52	1.43		-6.0%
PCB-153/168 ...-HxCB	36.36	2.06E+07	1.27 Y	1.46	1.38		-5.5%
PCB-141 22'3455'-HxCB	36.50	7.49E+06	1.26 Y	1.09	1.00		-8.0%
PCB-130 22'33'45'-HxCB	36.85	6.72E+06	1.25 Y	0.97	0.90		-7.5%
PCB-137 22'344'5-HxCB	37.04	8.38E+06	1.26 Y	1.16	1.12		-3.6%
PCB-164 233'4'5'6-HxCB	37.13	1.00E+07	1.27 Y	1.50	1.34		-10.4%
PCB-163/138/129 ...-HxCB	37.42	2.45E+07	1.27 Y	1.19	1.10		-7.9%

Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 19:01		
Lab ID:	CS3_140328_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	28-MAR-2014 10:43					
Datafile:	140328X01					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	37.56	9.51E+06	1.25 Y	1.52	1.27	-16.0%
PCB-158 233'44'6-HxCB	37.74	1.10E+07	1.24 Y	1.66	1.48	-11.0%
PCB-128/166 ...-HxCB	38.47	1.57E+07	1.23 Y	0.90	0.88	-1.8%
PCB-159 233'455'-HxCB	39.28	9.60E+06	1.22 Y	1.11	1.08	-3.4%
PCB-162 233'4'55'-HxCB	39.52	9.51E+06	1.20 Y	1.07	1.07	-0.5%
PCB-188 22'34'566'-HpCB	35.21	8.64E+06	1.07 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.49	8.15E+06	1.06 Y	1.16	1.07	-7.9%
PCB-184 22'344'66'-HpCB	35.95	7.83E+06	1.07 Y	1.13	1.03	-8.8%
PCB-176 22'33'466'-HpCB	36.25	8.63E+06	1.05 Y	1.23	1.13	-8.1%
PCB-186 22'34566'-HpCB	36.64	7.94E+06	1.06 Y	1.13	1.04	-7.4%
PCB-178 22'33'55'6'-HpCB	37.77	5.65E+06	1.06 Y	0.84	0.74	-12.0%
PCB-175 22'33'45'6'-HpCB	38.31	7.09E+06	1.04 Y	1.07	1.11	3.4%
PCB-187 22'34'55'6'-HpCB	38.54	7.68E+06	1.05 Y	1.14	1.20	5.6%
PCB-182 22'344'56'-HpCB	38.72	7.78E+06	1.06 Y	1.18	1.22	3.7%
PCB-183 22'344'5'6'-HpCB	39.07	8.16E+06	1.05 Y	1.20	1.28	6.0%
PCB-185 22'3455'6'-HpCB	39.15	6.75E+06	1.07 Y	1.06	1.06	-0.5%
PCB-174 22'33'456'-HpCB	39.26	6.40E+06	1.07 Y	0.99	1.00	1.2%
PCB-177 22'33'45'6'-HpCB	39.64	6.29E+06	1.05 Y	0.95	0.98	3.5%
PCB-181 22'344'56'-HpCB	39.98	7.09E+06	1.02 Y	1.09	1.11	1.9%
PCB-171/173 ...-HpCB	40.17	1.23E+07	1.04 Y	0.95	0.96	1.7%
PCB-172 22'33'455'-HpCB	41.51	6.38E+06	1.05 Y	0.99	1.00	0.9%
PCB-192 233'455'6'-HpCB	41.76	8.36E+06	1.06 Y	1.29	1.31	1.7%
PCB-180/193 ...-HpCB	42.04	1.61E+07	1.04 Y	1.26	1.26	-0.2%
PCB-191 233'44'5'6'-HpCB	42.37	8.69E+06	1.07 Y	1.40	1.36	-2.5%
PCB-170 22'33'44'5'-HpCB	43.14	5.84E+06	1.09 Y	1.14	1.09	-3.7%
PCB-190 233'44'56'-HpCB	43.59	8.09E+06	1.04 Y	1.66	1.52	-8.8%
PCB-202 22'33'55'66'-OcCB	39.74	6.70E+06	0.89 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.53	7.49E+06	0.92 Y	1.22	1.10	-9.8%
PCB-204 22'344'566'-OcCB	41.10	7.04E+06	0.88 Y	1.12	1.04	-7.2%
PCB-197 22'33'44'66'-OcCB	41.29	7.68E+06	0.89 Y	1.19	1.13	-5.2%
PCB-200 22'33'4566'-OcCB	41.38	7.09E+06	0.90 Y	1.11	1.04	-5.8%
PCB-198/199 ...-OcCB	43.70	9.48E+06	0.93 Y	0.81	0.70	-13.9%
PCB-196 22'33'44'56'-OcCB	44.28	5.04E+06	0.92 Y	0.83	0.74	-11.1%
PCB-203 22'344'55'6'-OcCB	44.45	5.29E+06	0.93 Y	0.87	0.78	-11.1%
PCB-195 22'33'44'56'-OcCB	45.57	4.61E+06	0.92 Y	0.77	0.82	6.8%
PCB-194 22'33'44'55'-OcCB	47.51	4.73E+06	0.90 Y	0.84	0.84	-0.4%
PCB-205 233'44'55'6'-OcCB	47.91	5.83E+06	0.91 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.36	7.08E+06	0.77 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.15	7.37E+06	0.78 Y	1.19	1.15	-3.4%
PCB-206 22'33'44'55'6'-NoCB	49.37	4.32E+06	0.75 Y	1.11	-	-

SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 28-Mar-2014 10:43:57  
User: LKB Datafile: 140328X01



SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

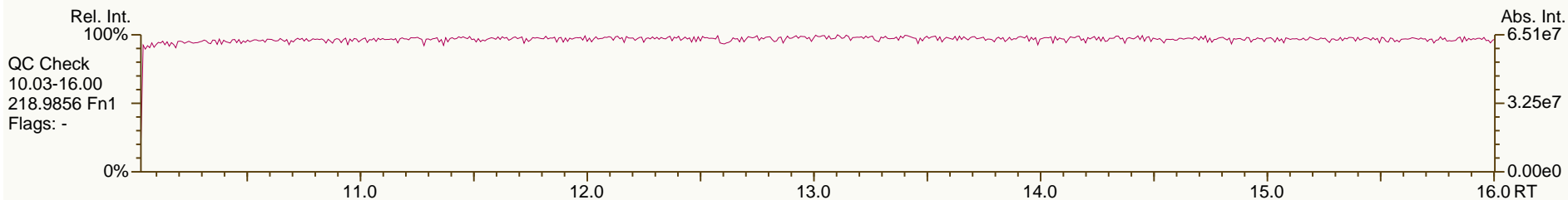
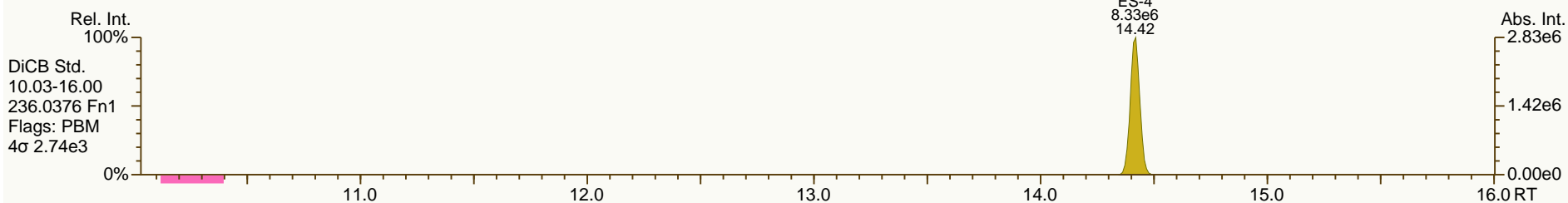
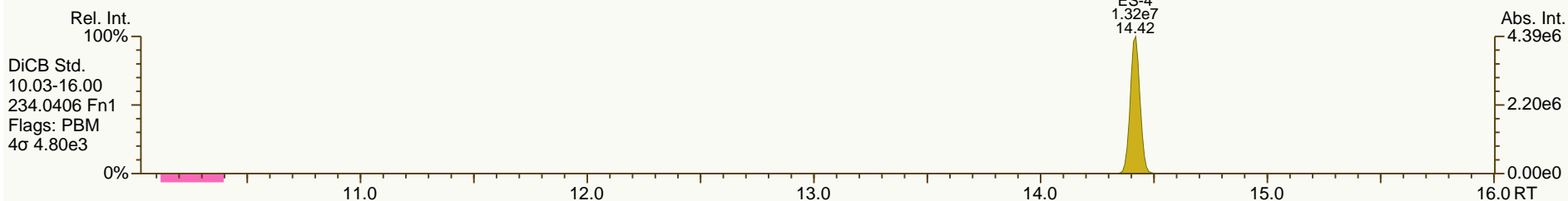
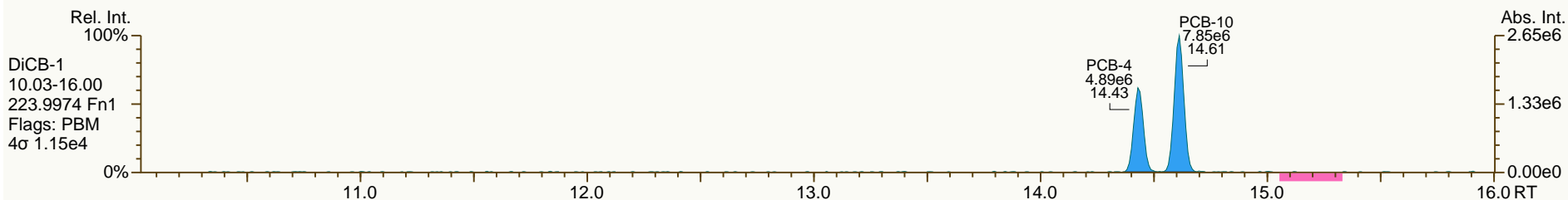
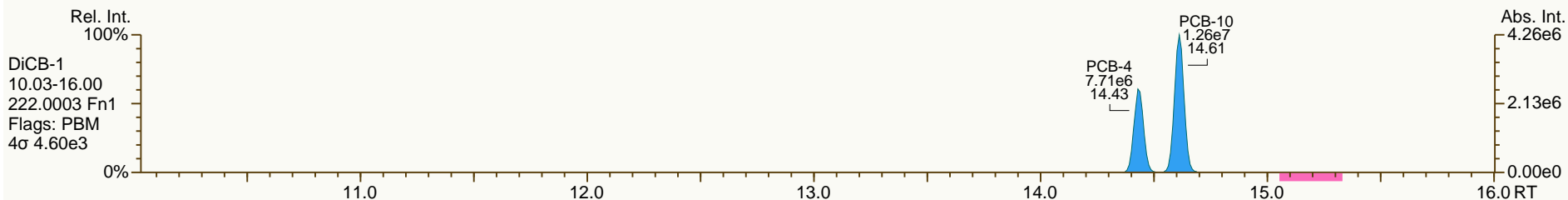
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

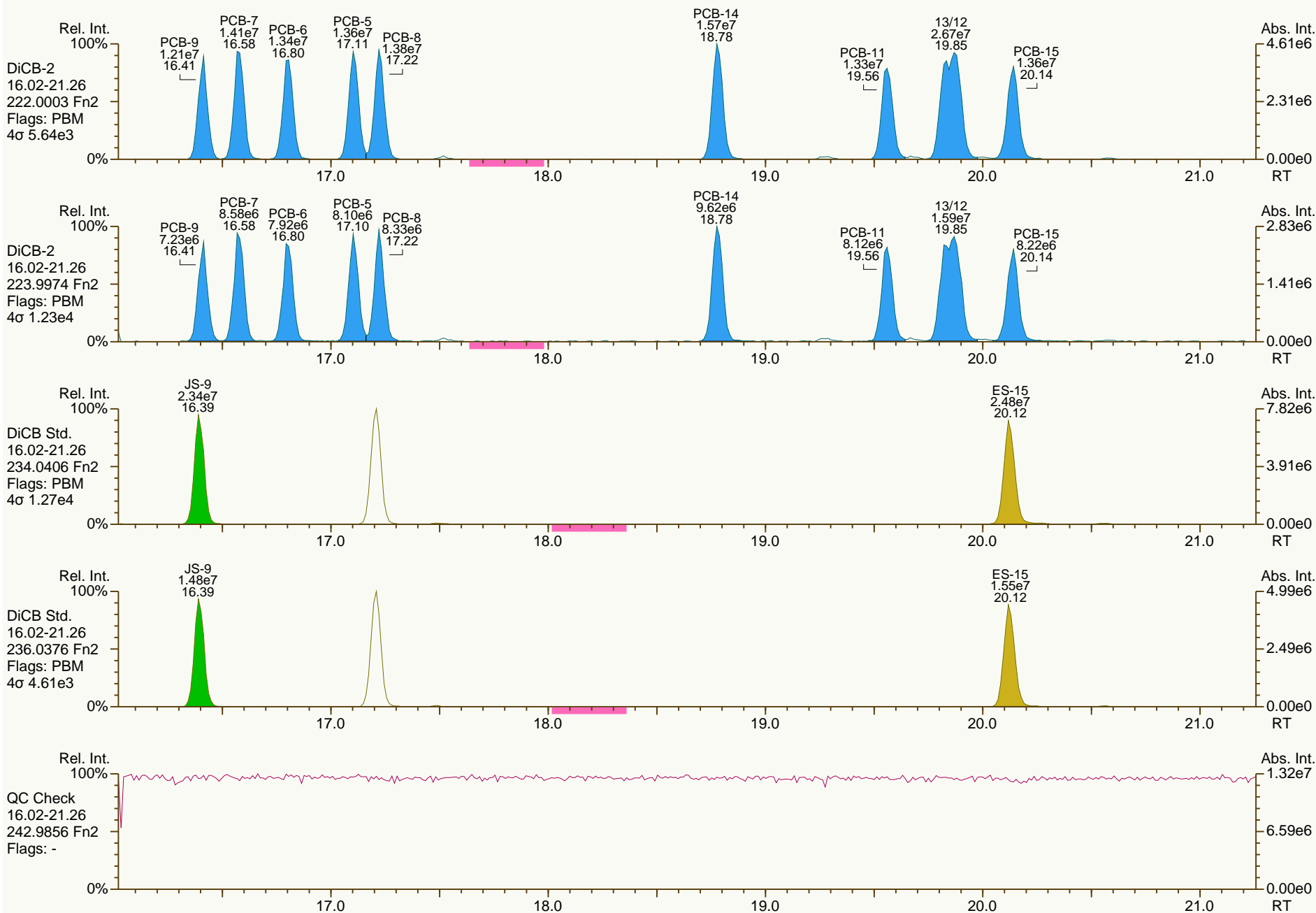
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 28-Mar-2014 10:43:57  
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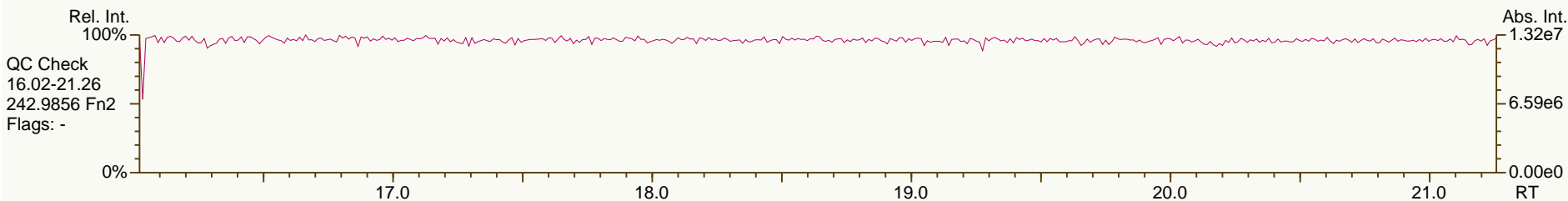
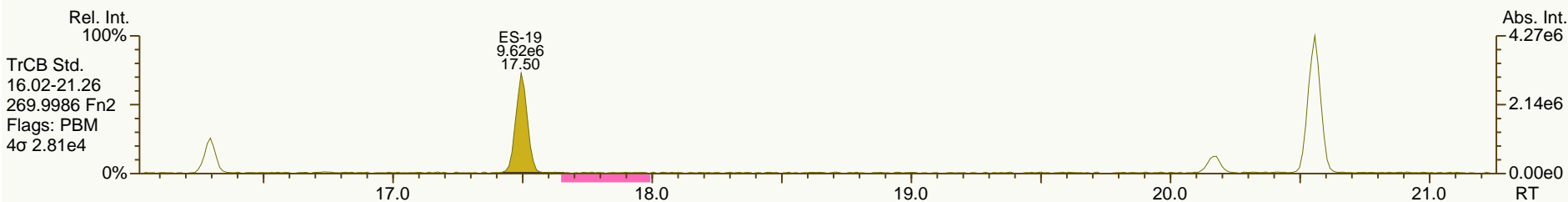
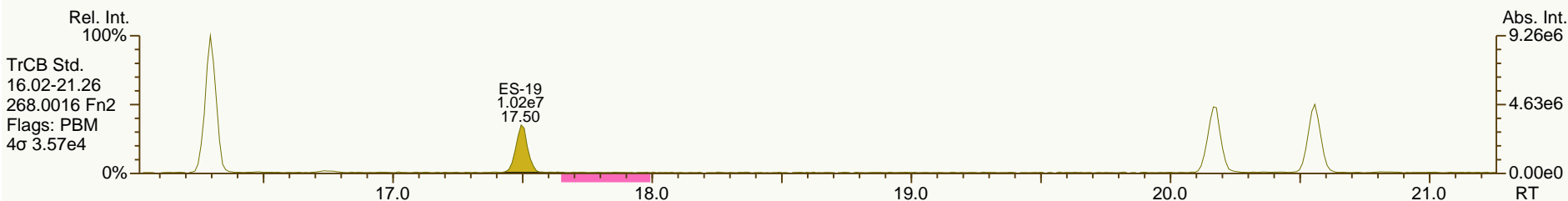
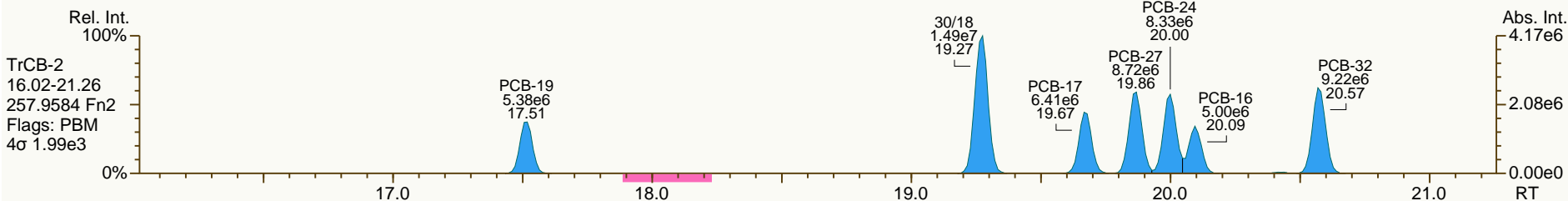
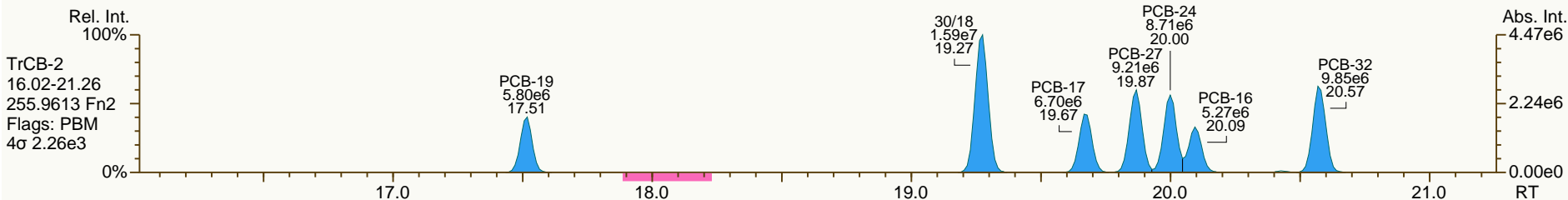




SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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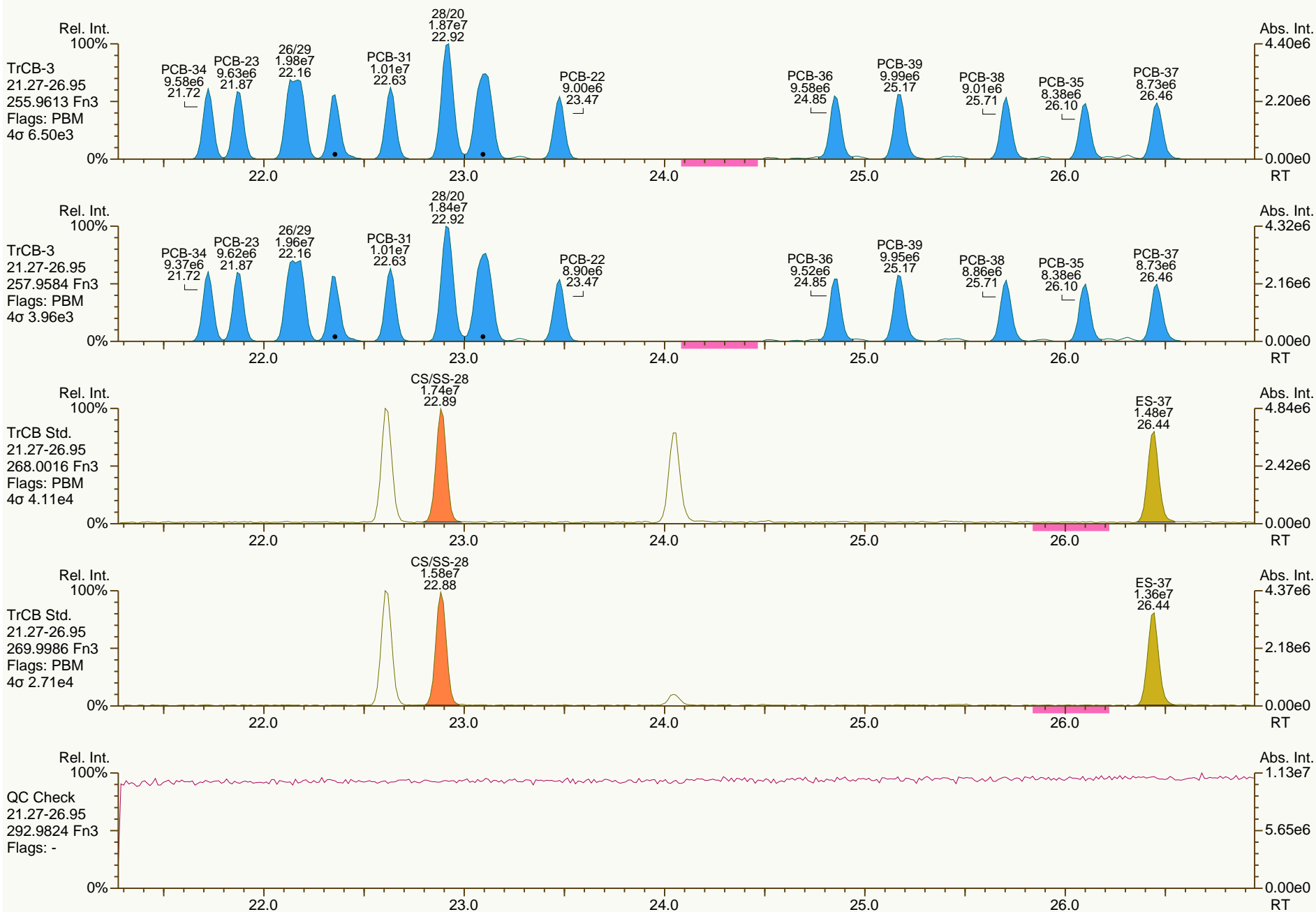
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

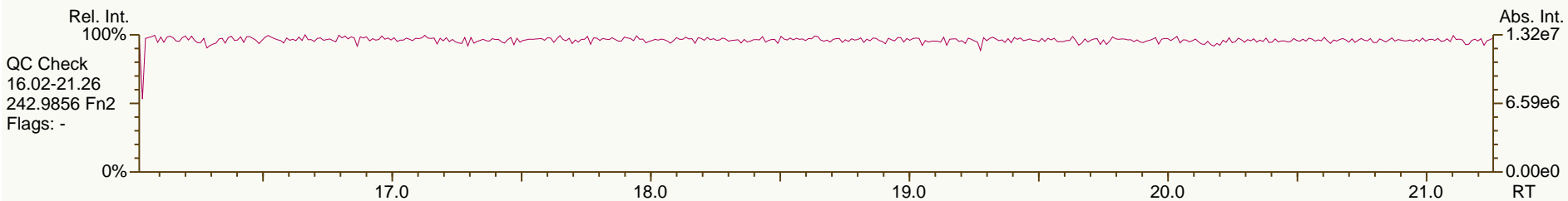
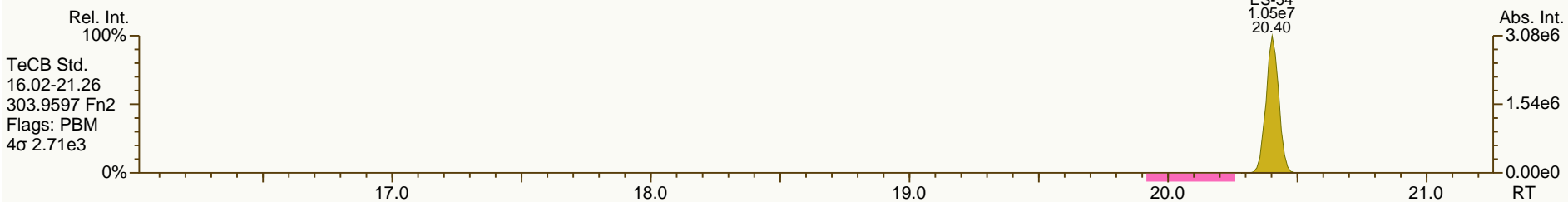
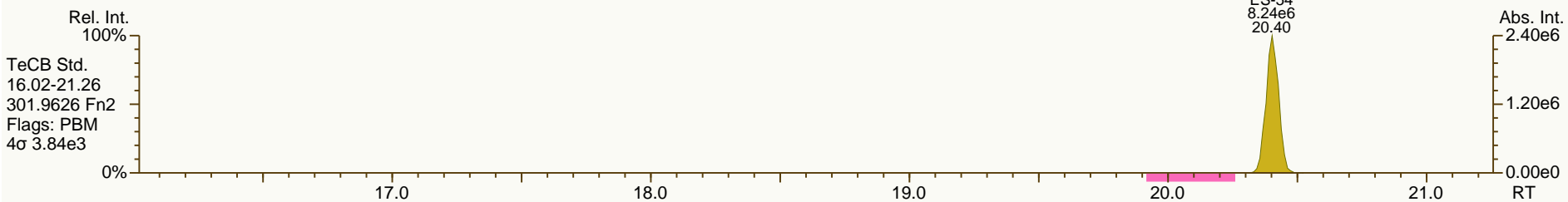
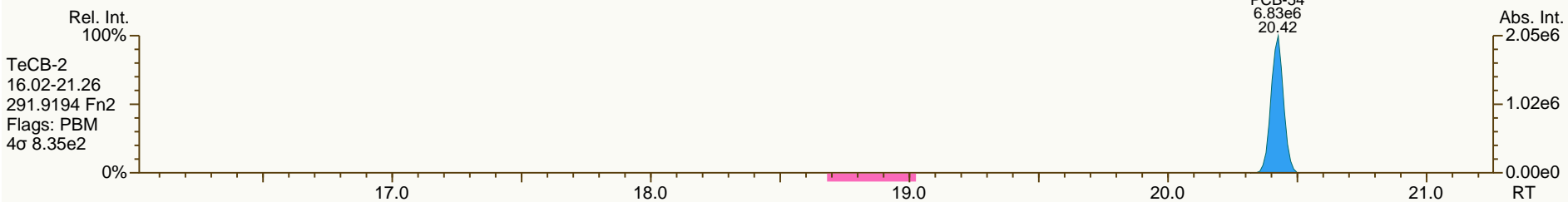
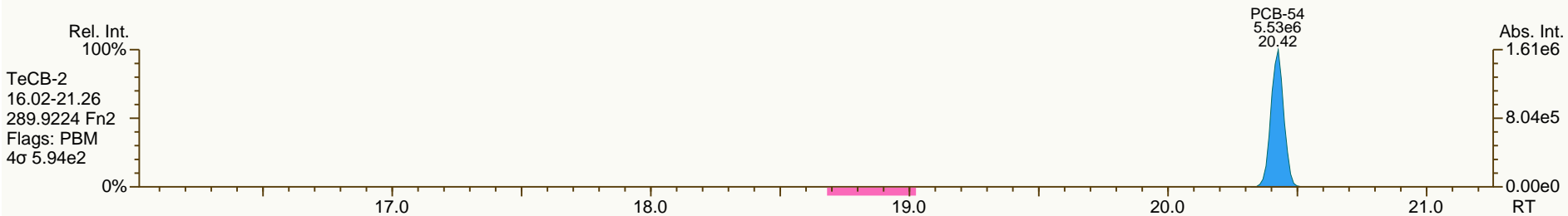
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SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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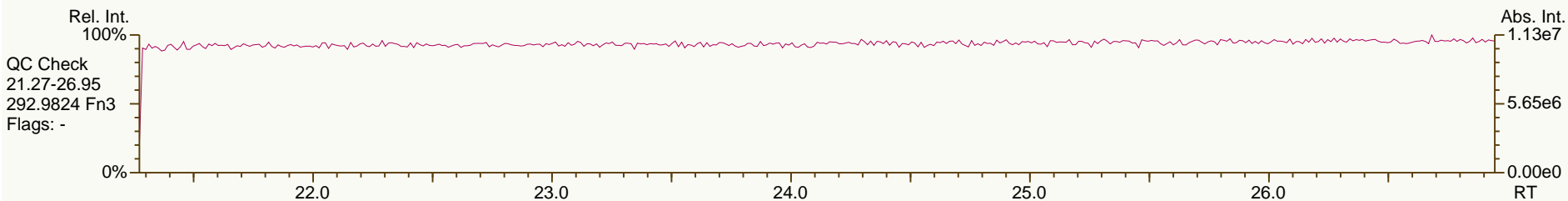
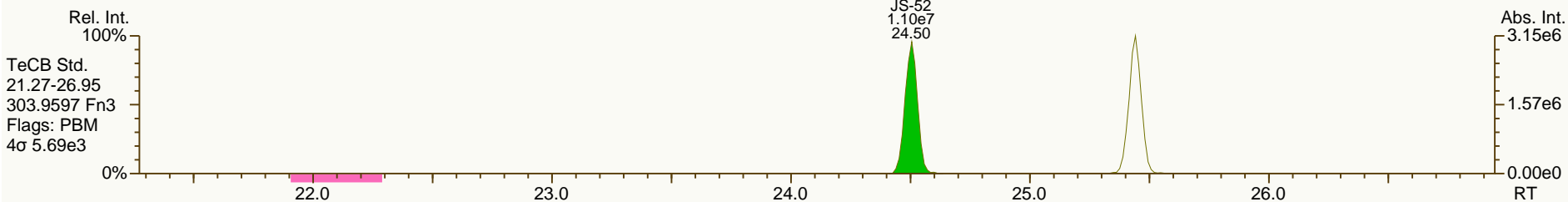
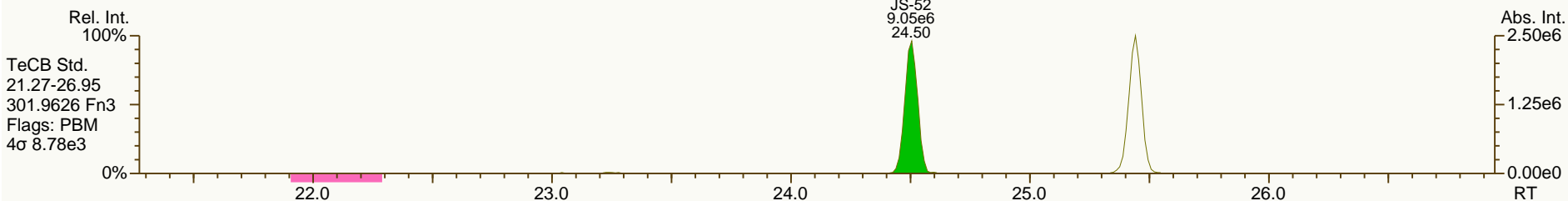
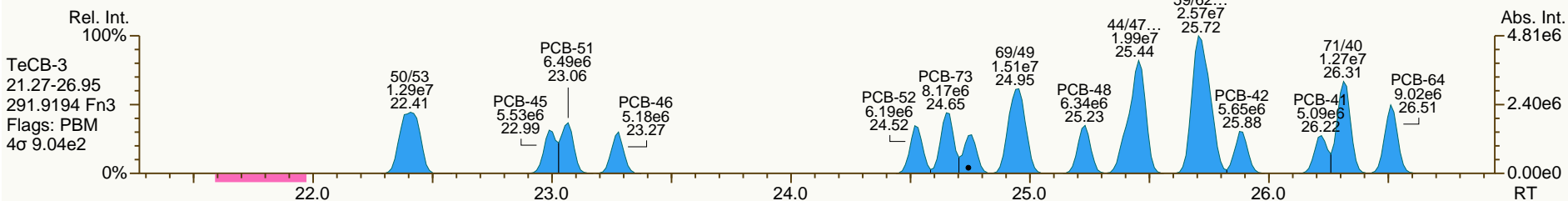
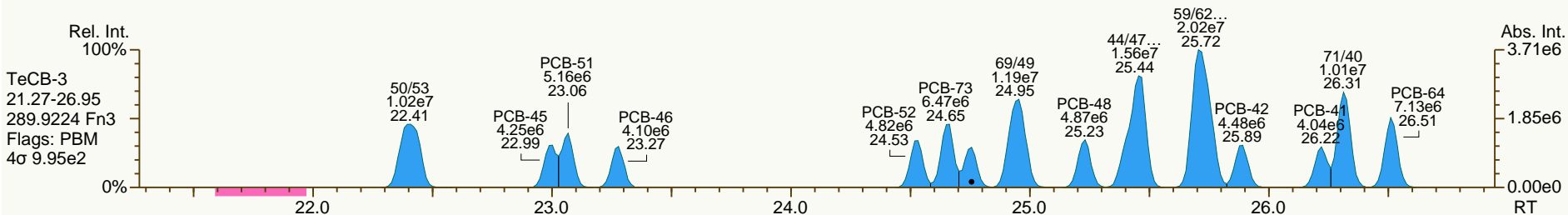
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SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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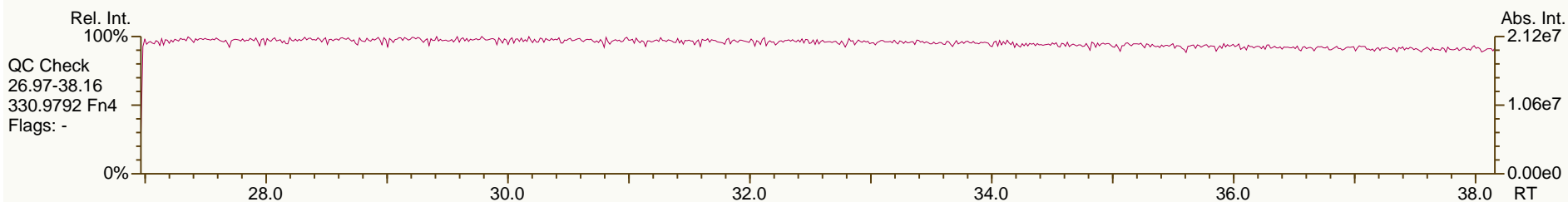
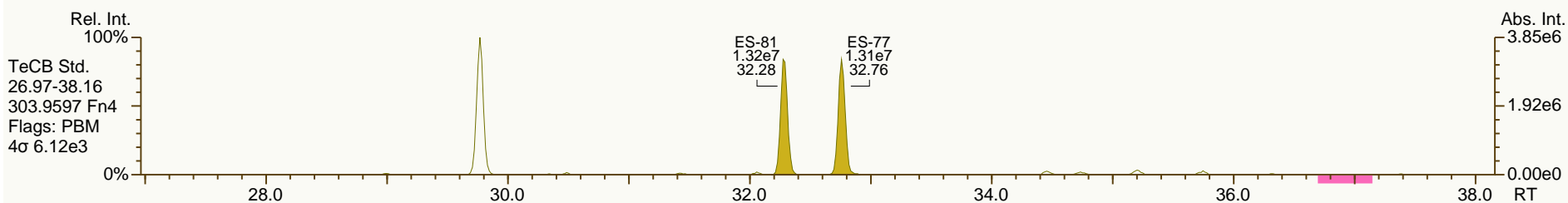
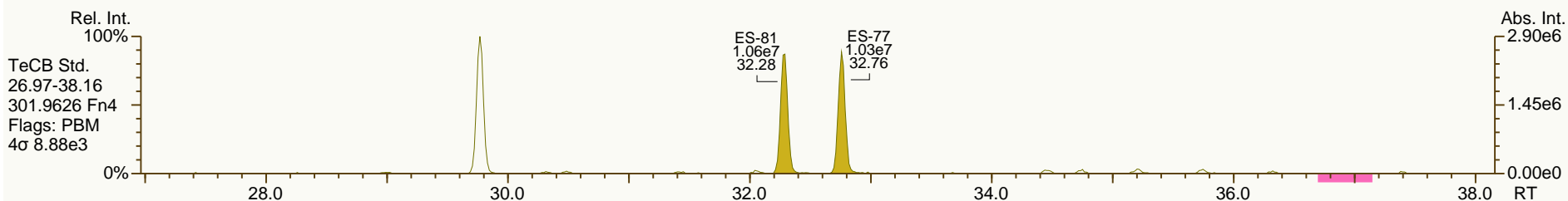
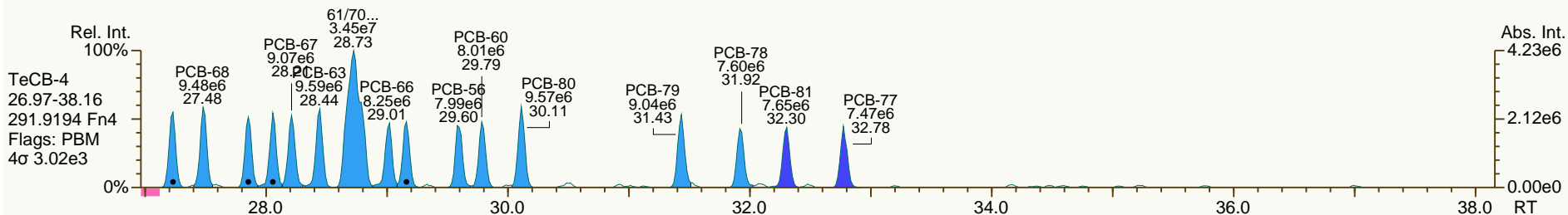
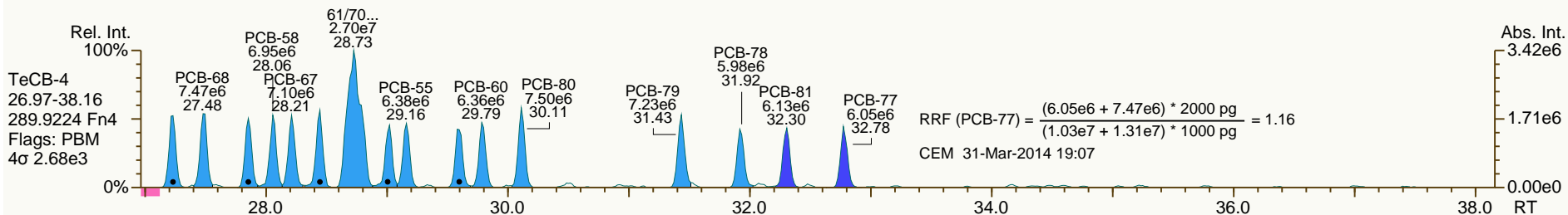
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SGS-AP ID: CS3\_140328\_PCB\_XA  
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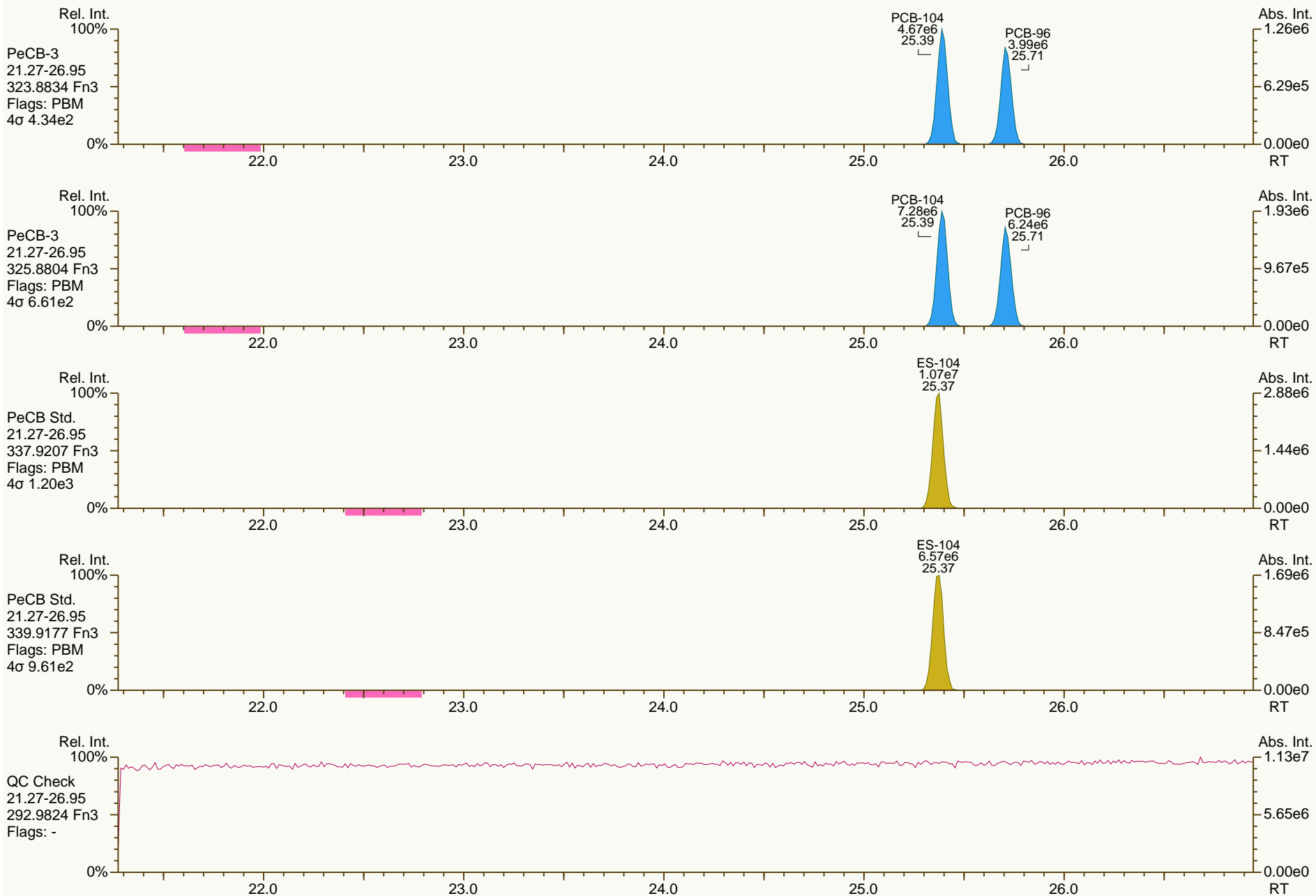
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SGS-AP ID: CS3\_140328\_PCB\_XA  
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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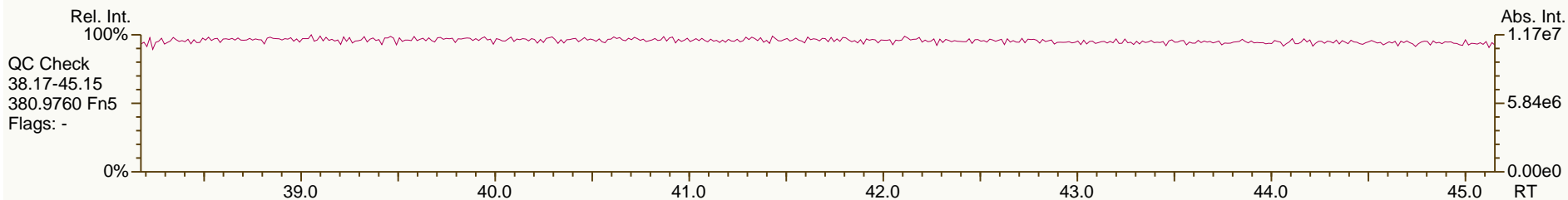
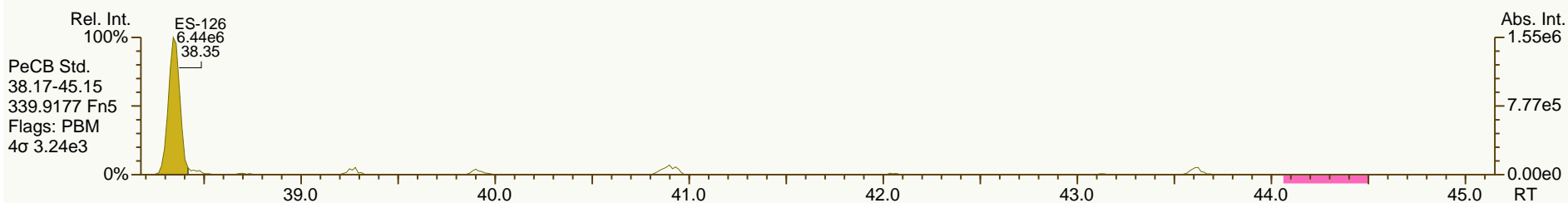
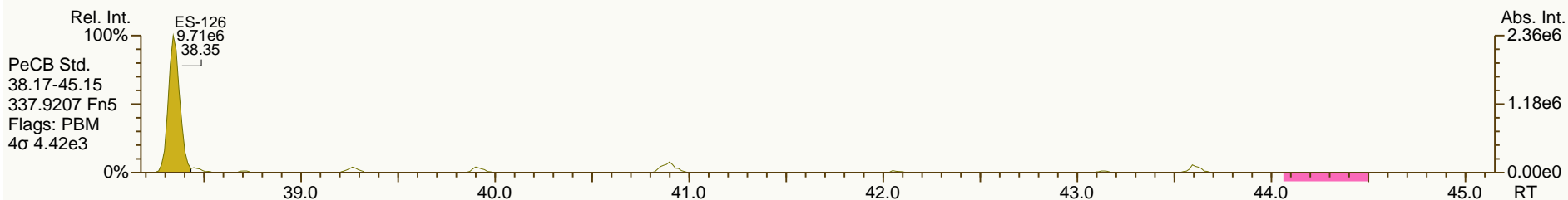
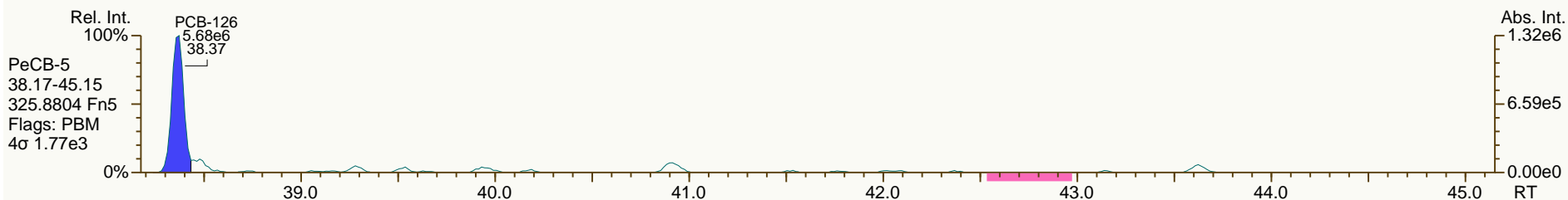
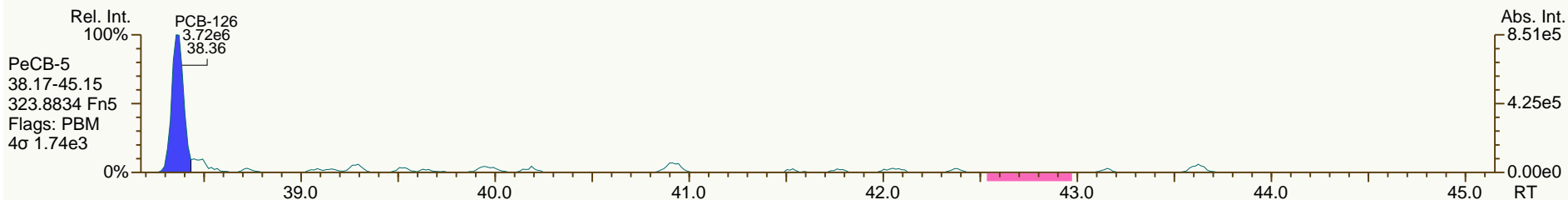
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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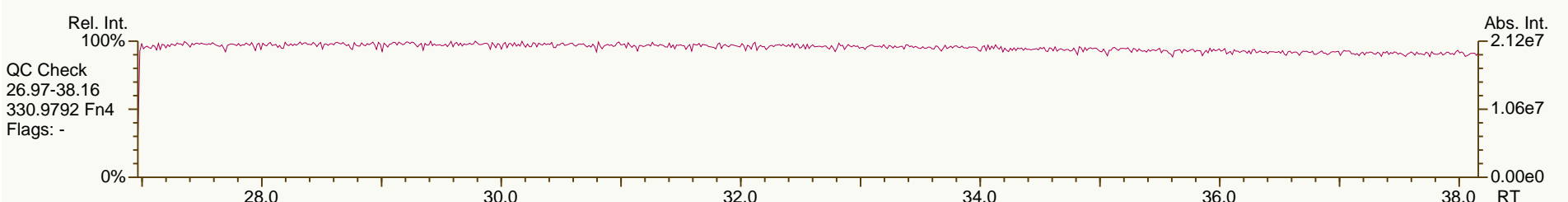
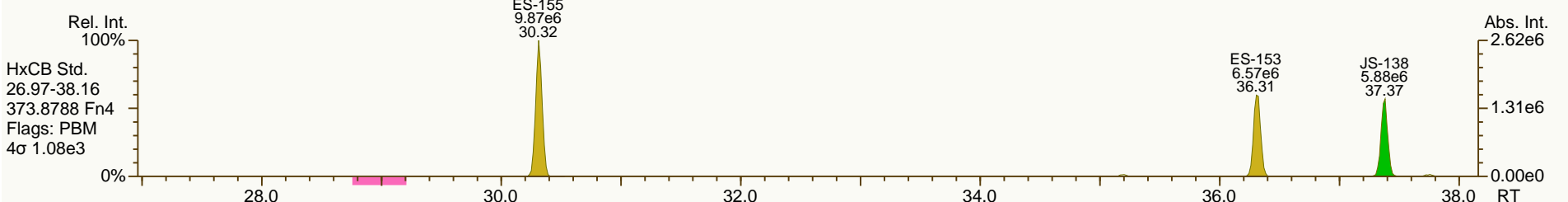
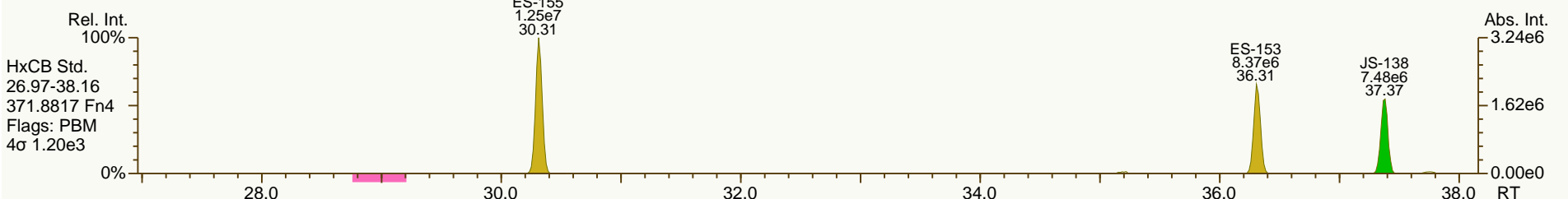
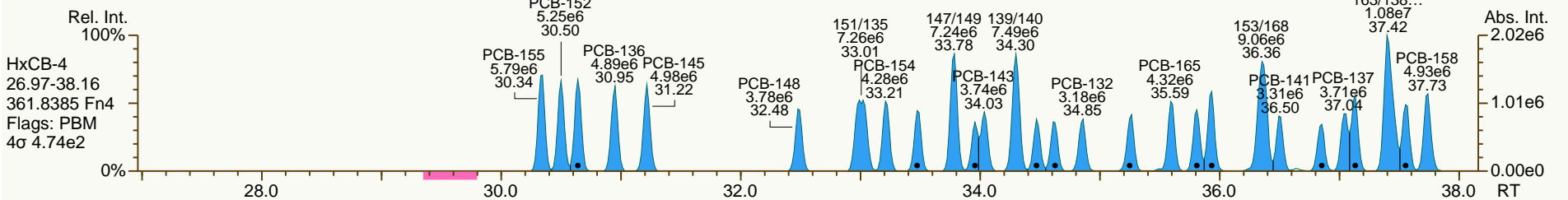
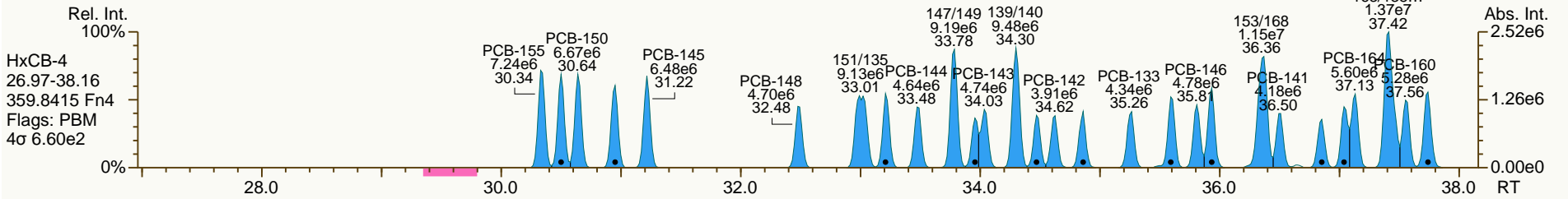




SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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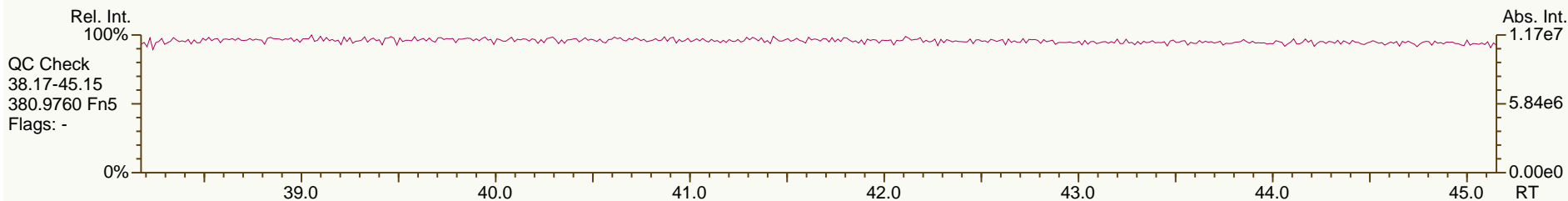
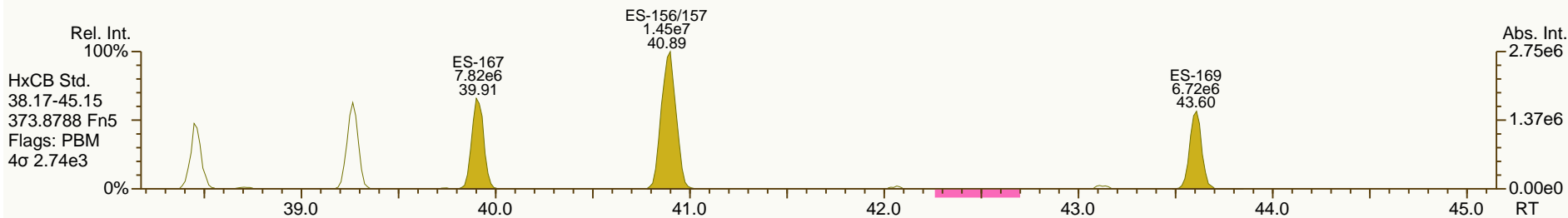
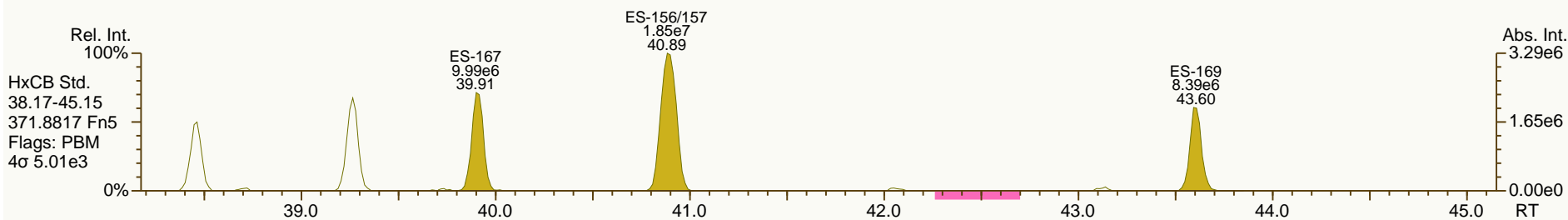
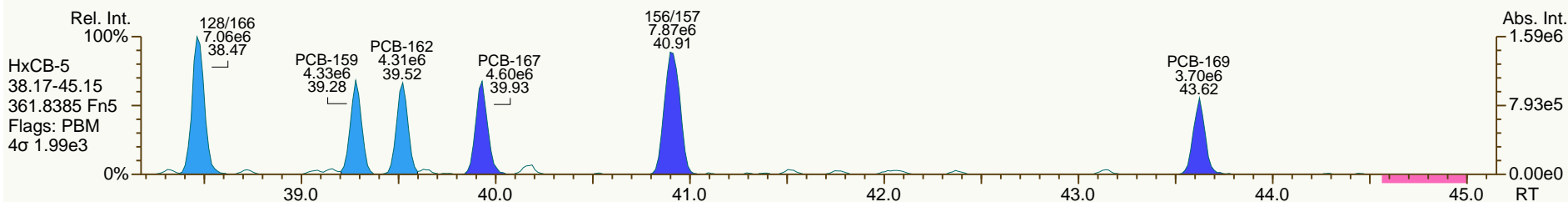
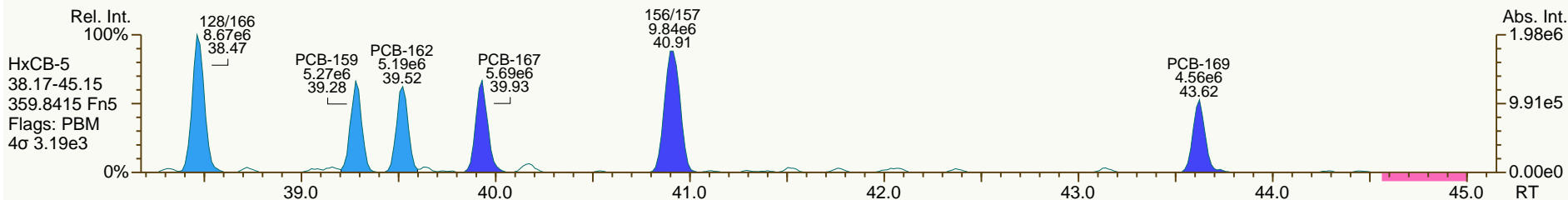
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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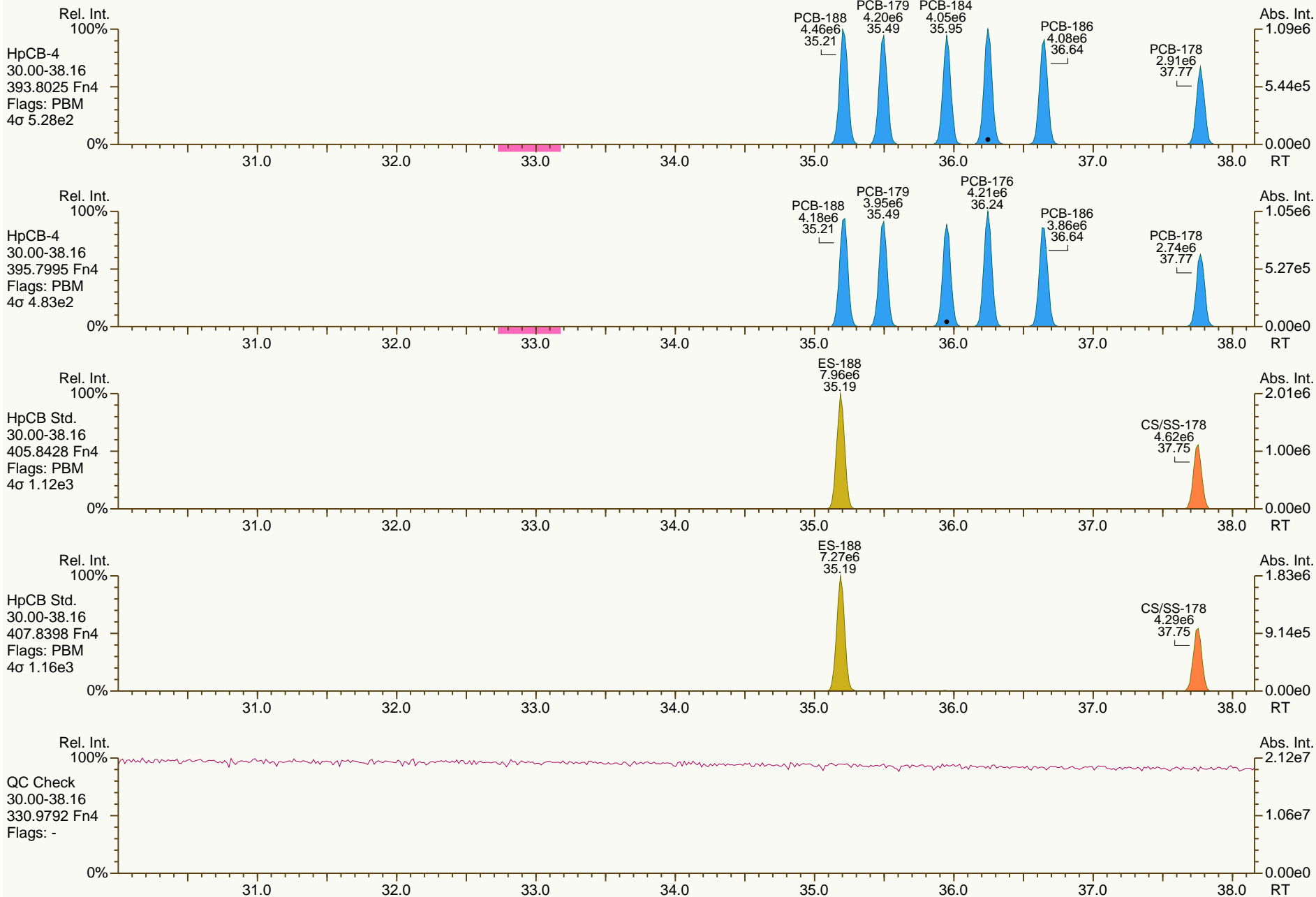
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SGS-AP ID: CS3\_140328\_PCB\_XA  
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Sample ID: SIL 13-73-3  
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SGS-AP ID: CS3\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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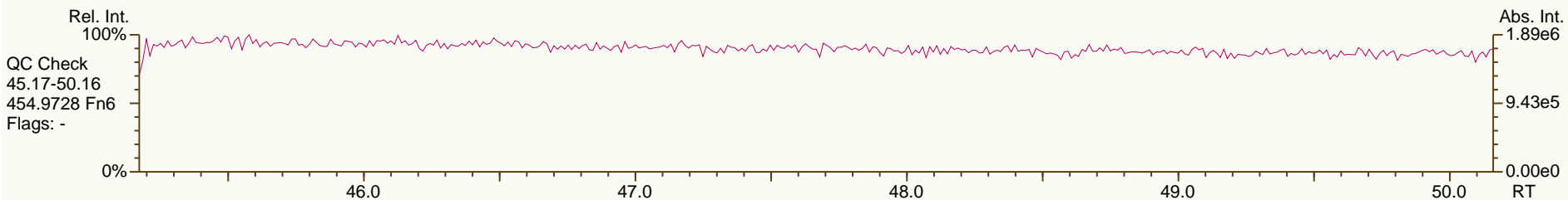
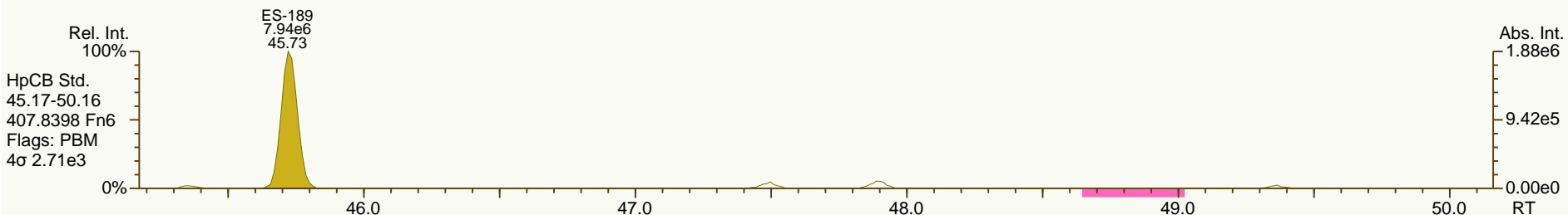
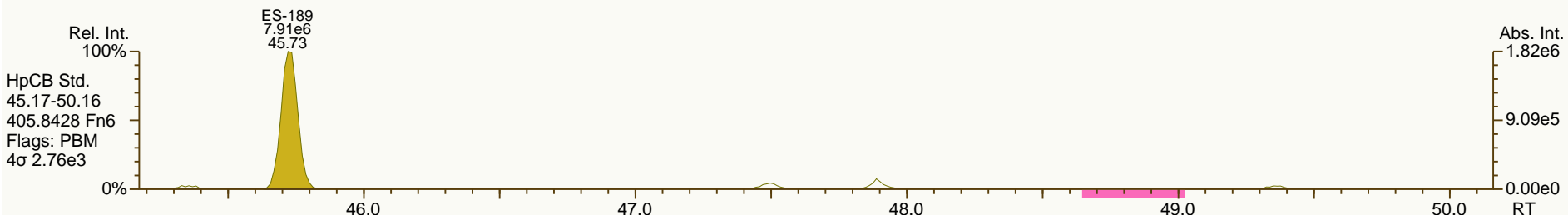
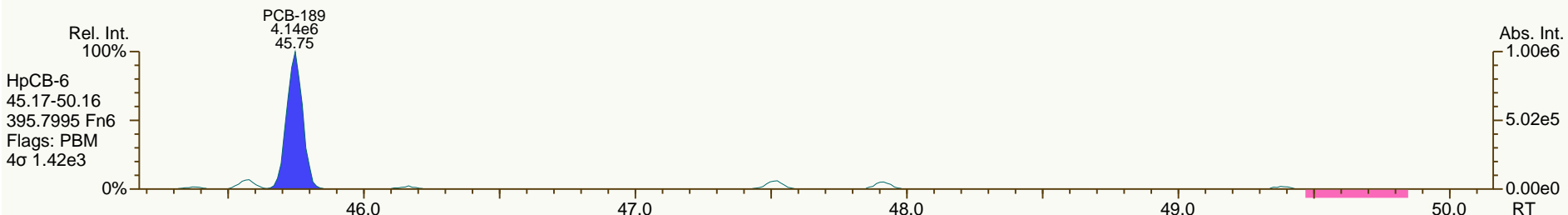
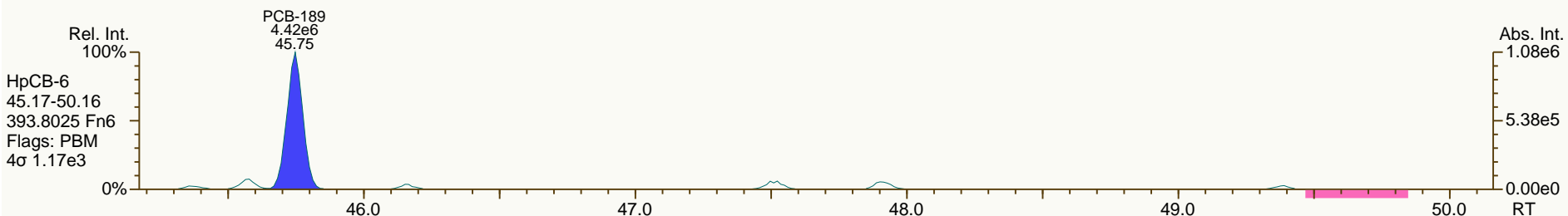
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SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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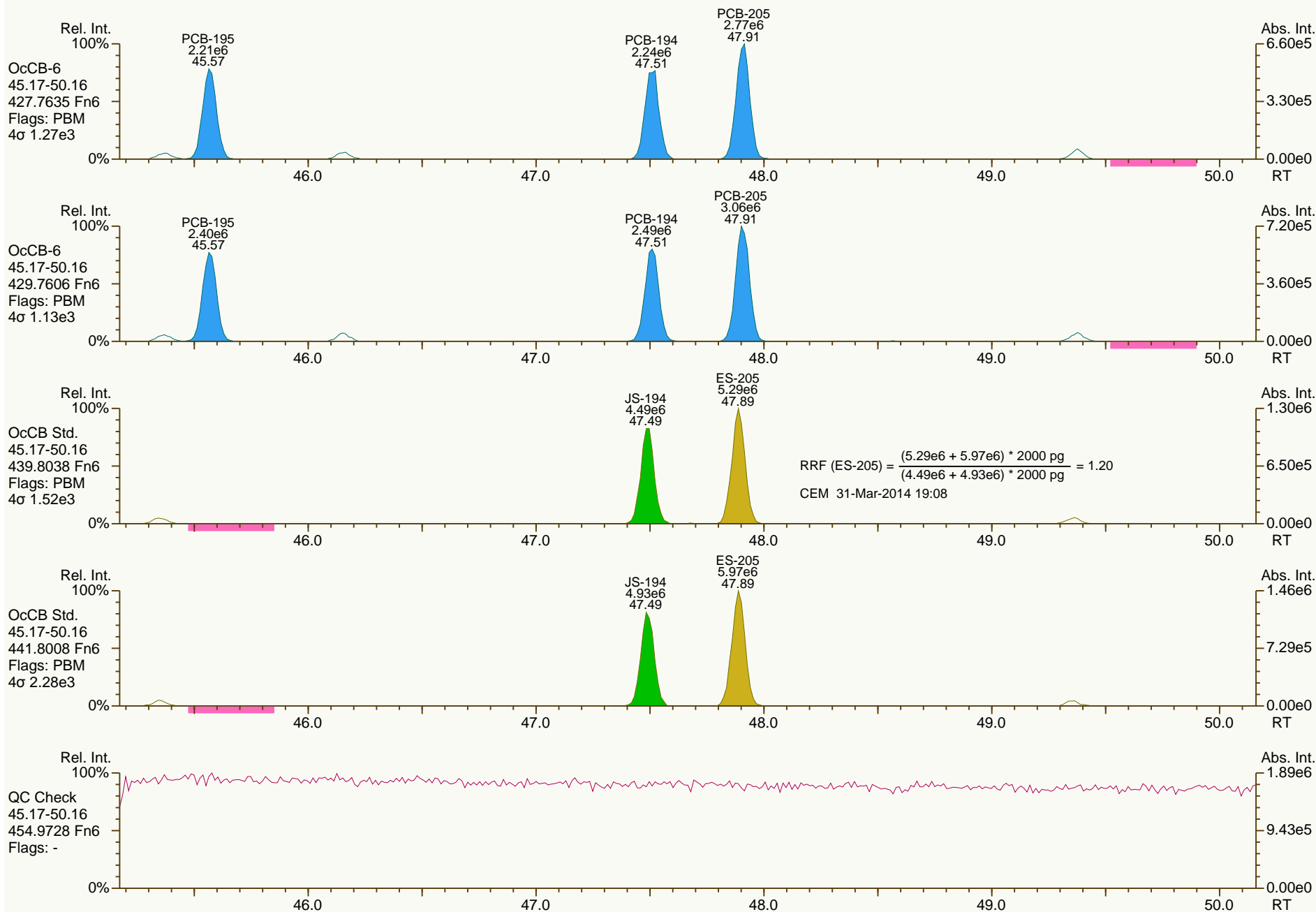
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SGS-AP ID: CS3\_140328\_PCB\_XA  
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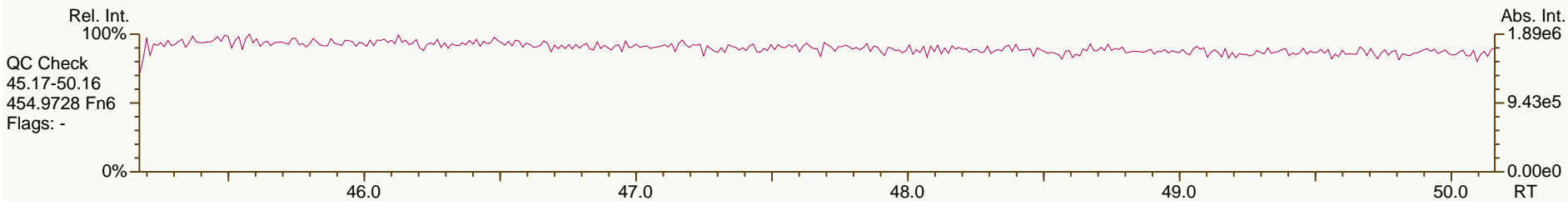
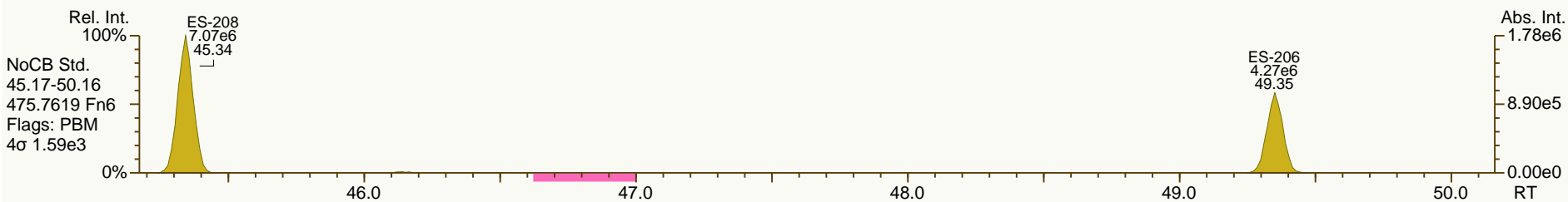
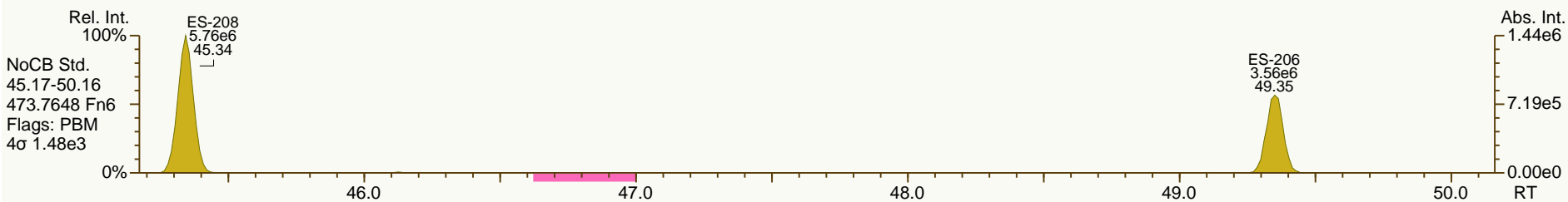
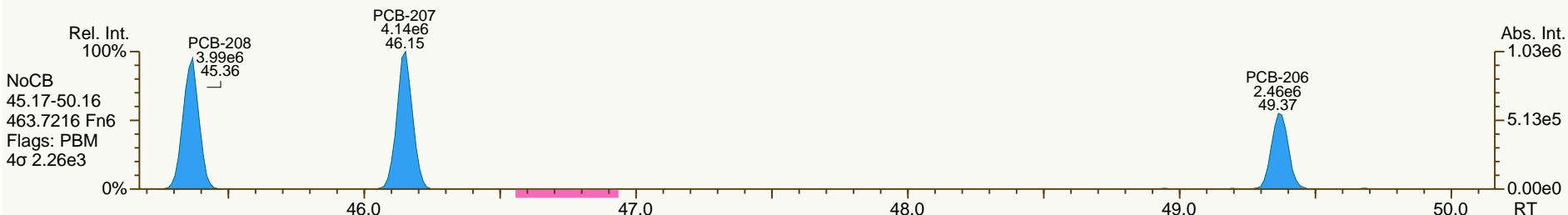
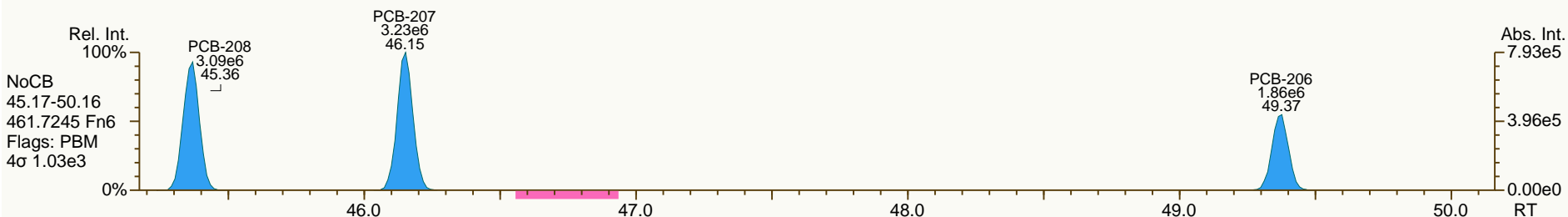
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SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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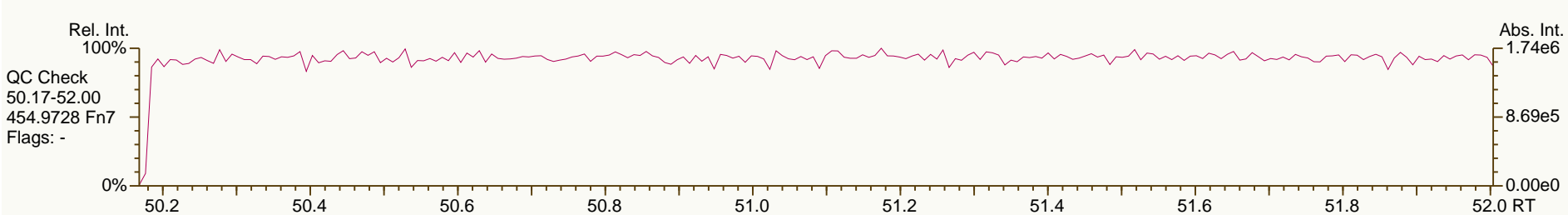
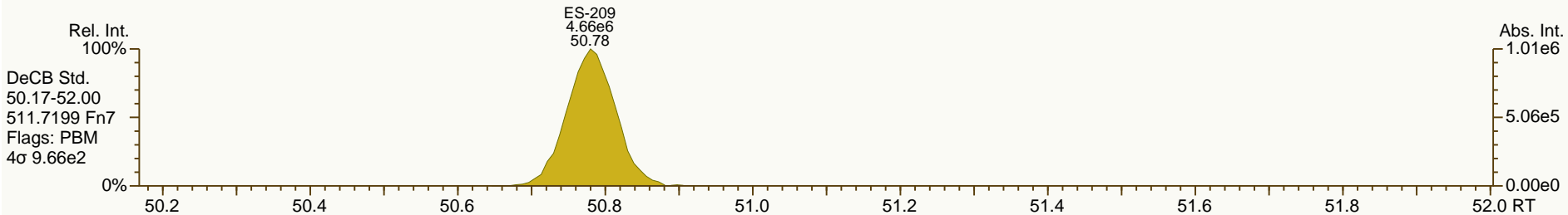
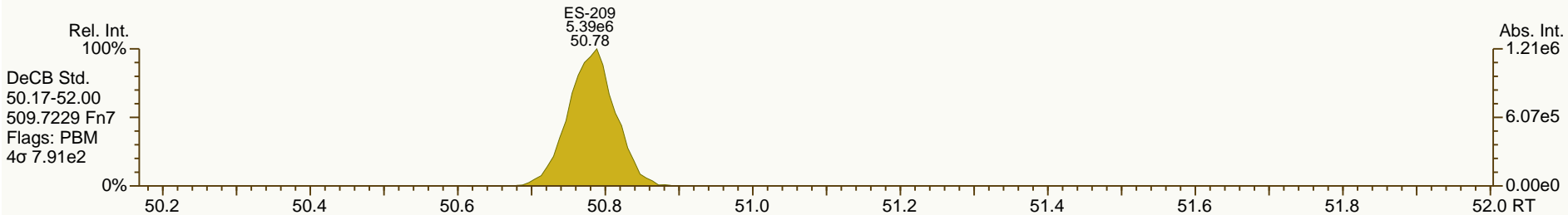
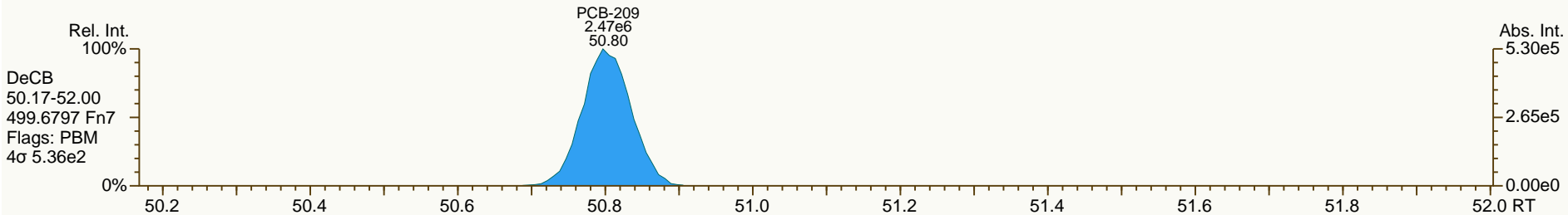
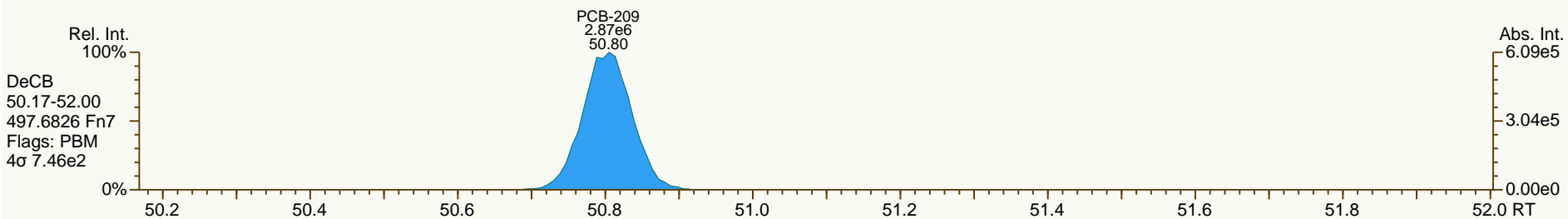




SGS-AP ID: CS3\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-73-3  
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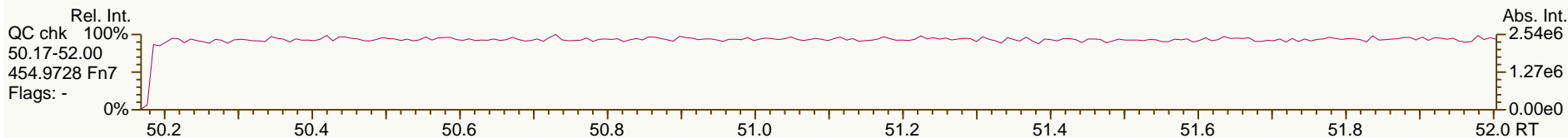
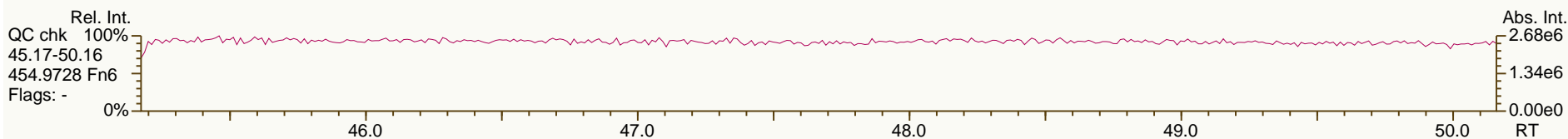
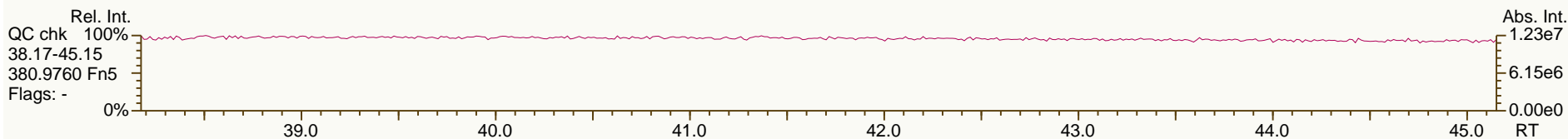
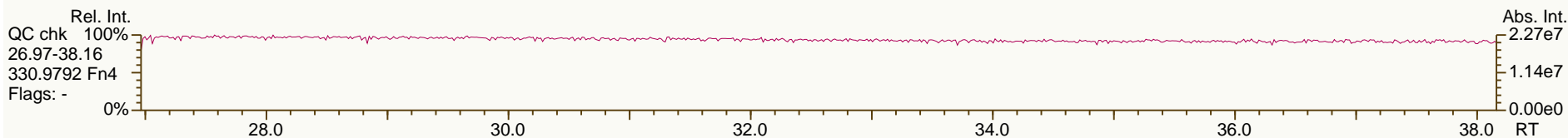
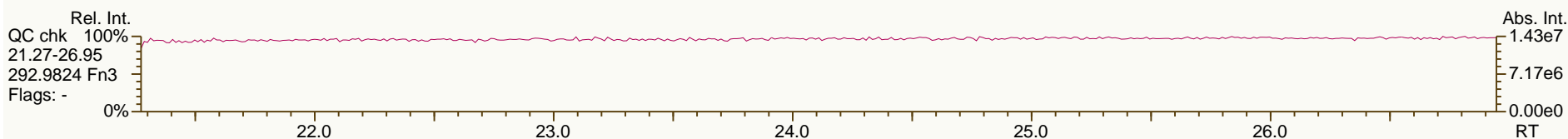
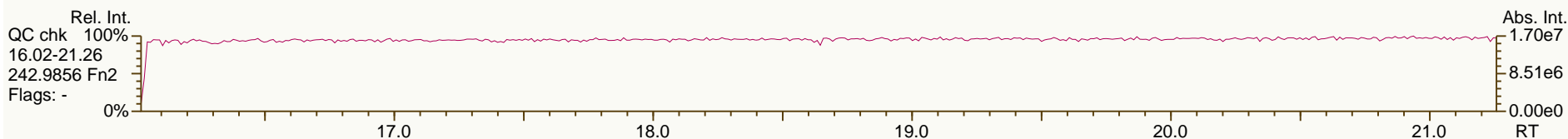
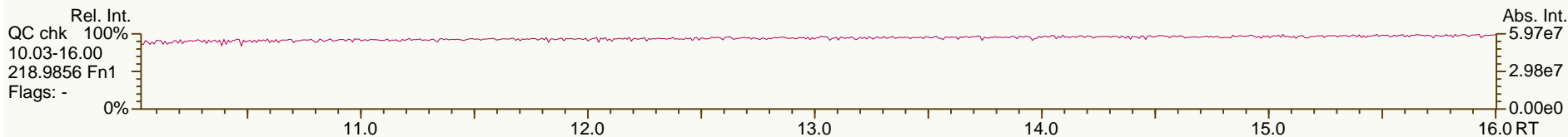
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SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 26-Mar-2014 20:11:52  
User: LKB Datafile: 140326X07



SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 26-Mar-2014 20:11:52  
User: LKB Datafile: 140326X07



SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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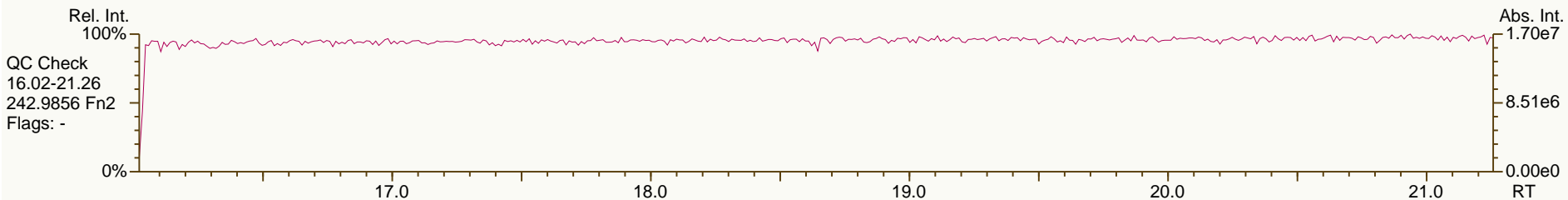
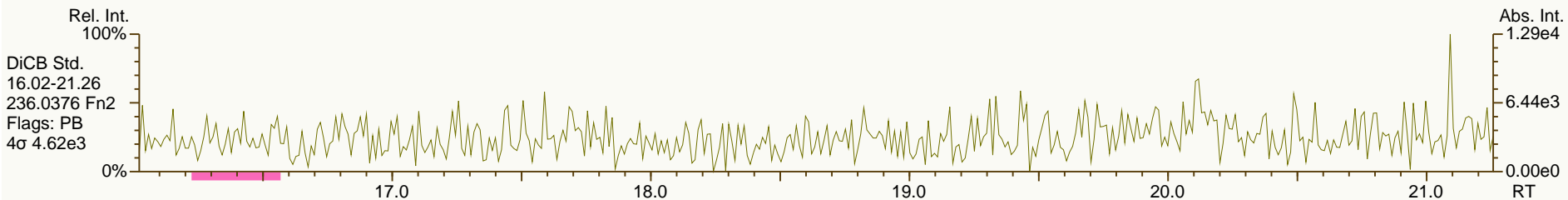
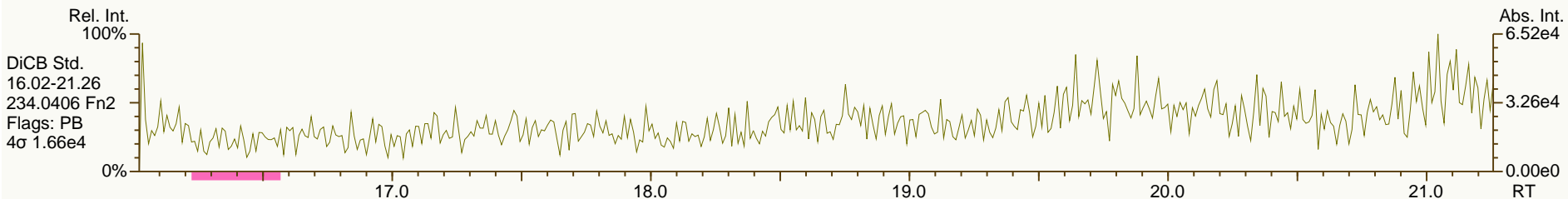
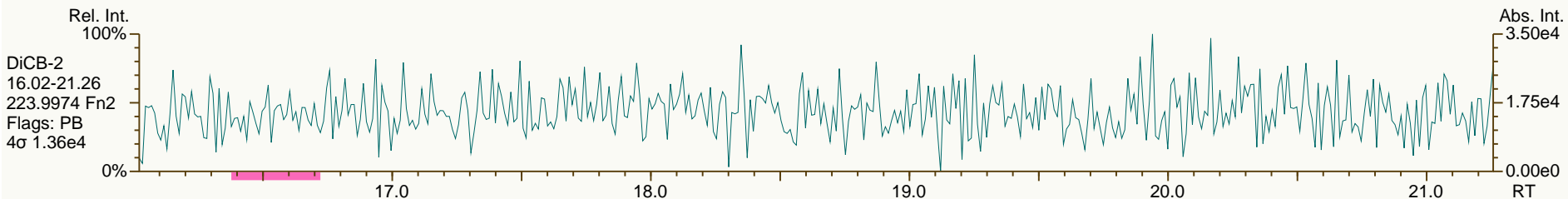
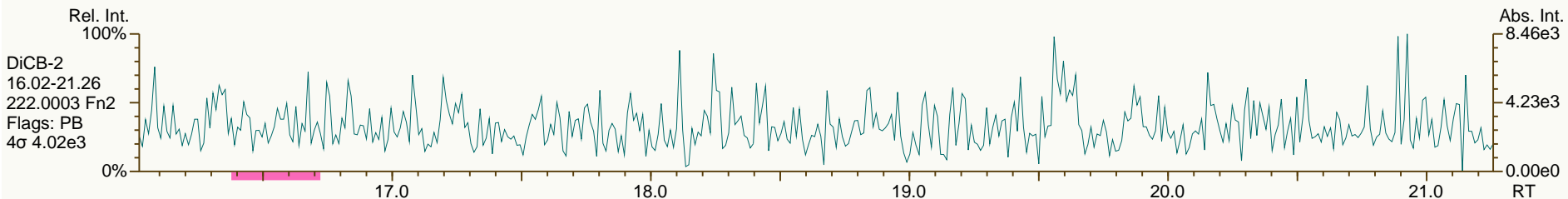
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SGS-AP ID: SBS\_140326\_PCB\_XB  
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Sample ID: SIL 13-42-1  
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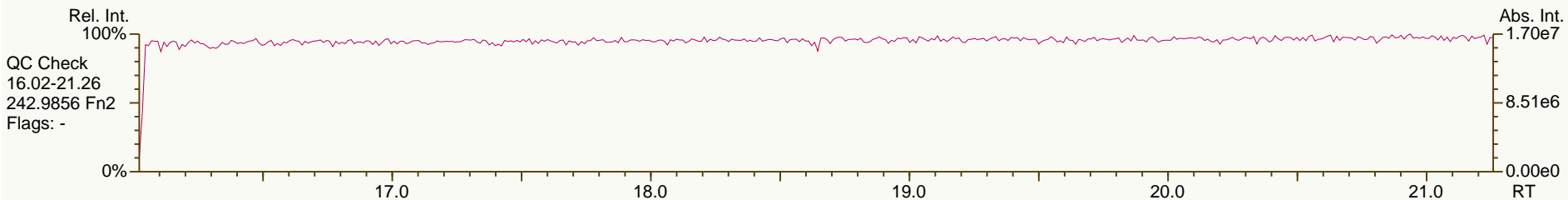
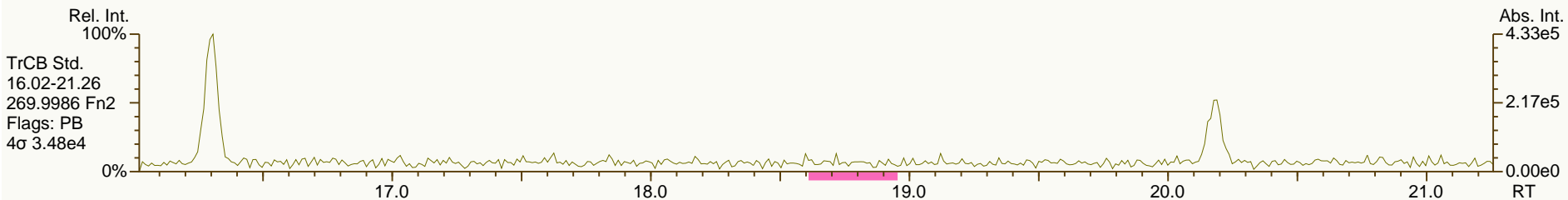
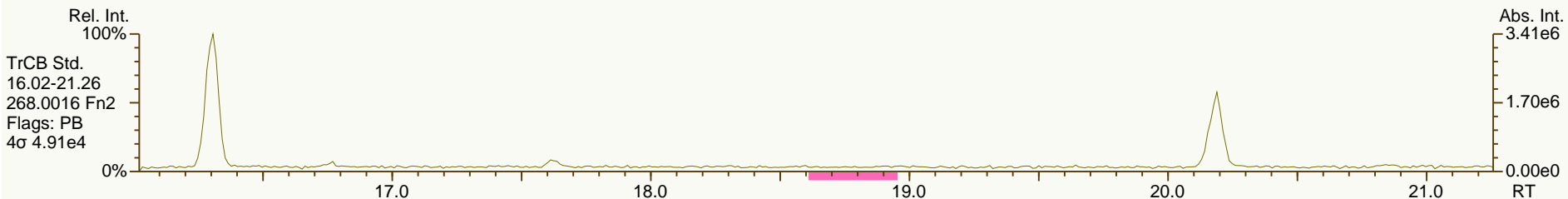
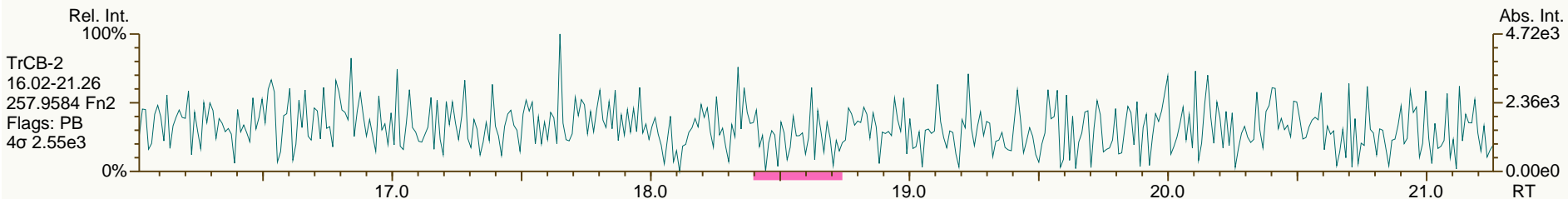
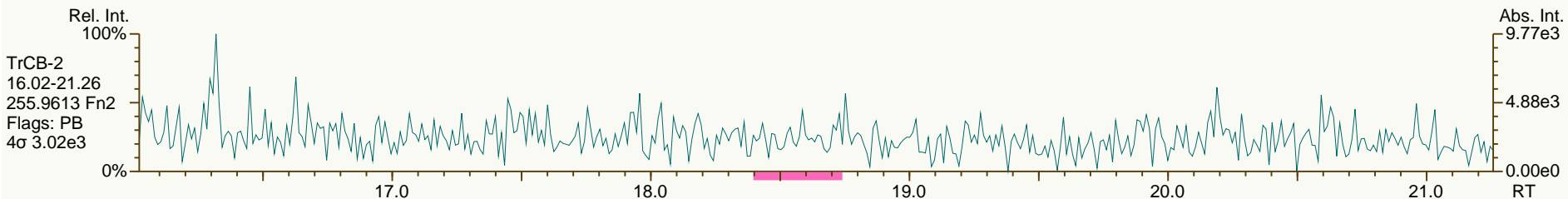
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

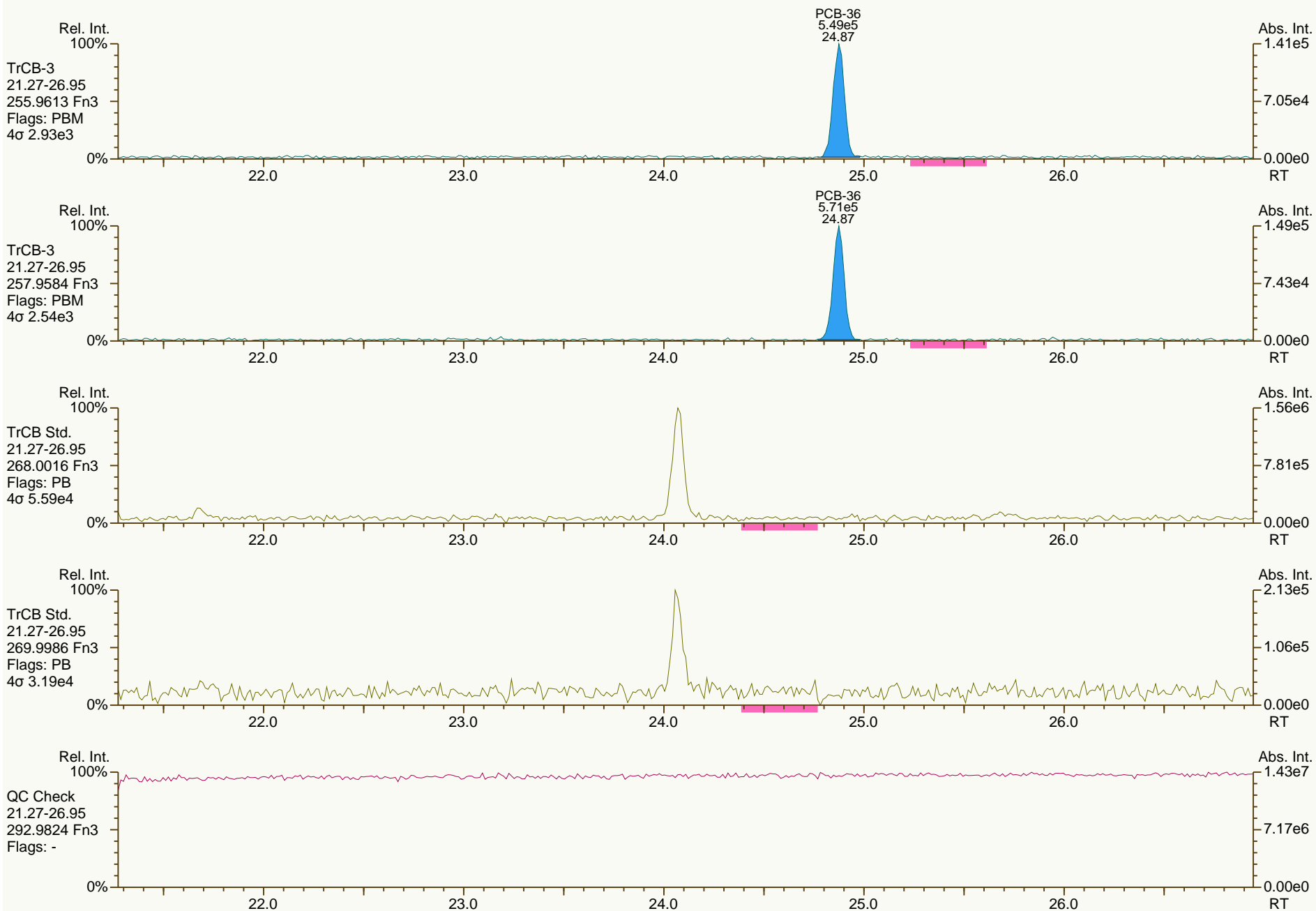
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 User: LKB Datafile: 140326X07



SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

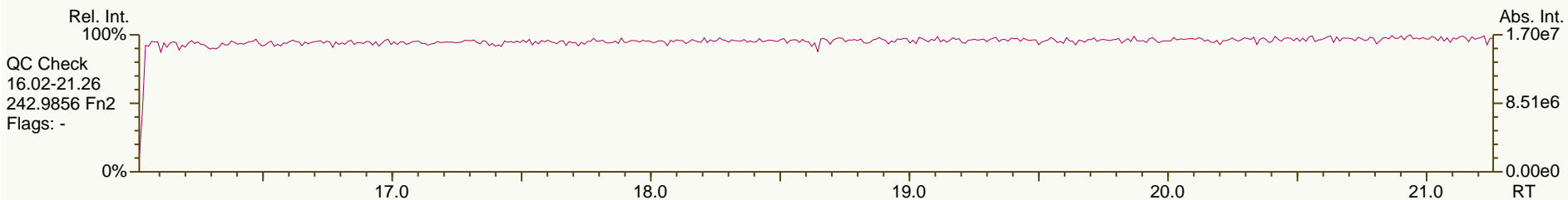
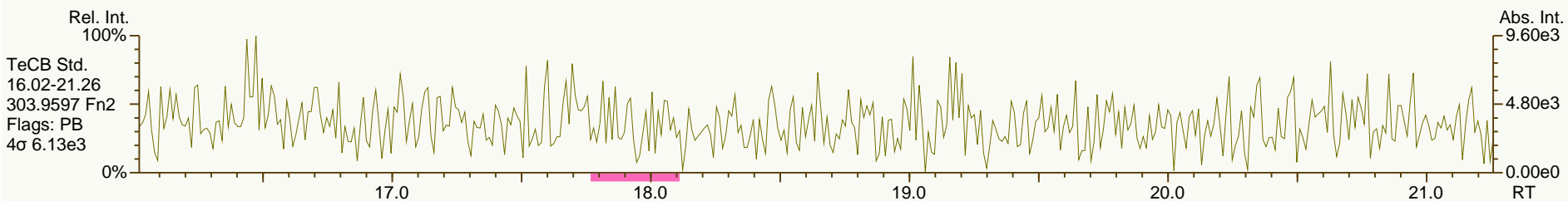
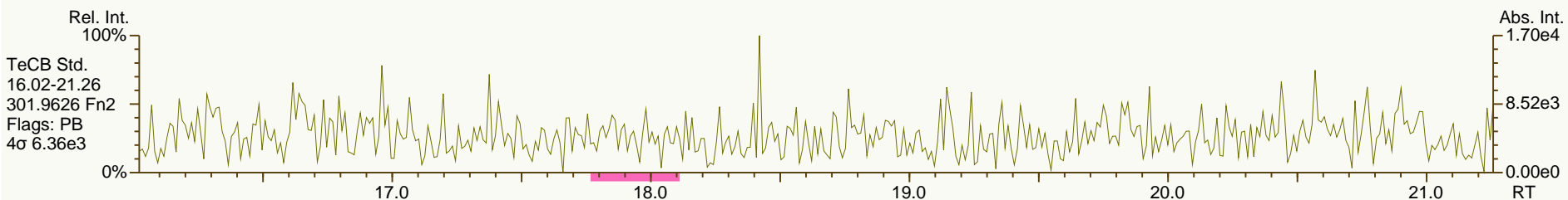
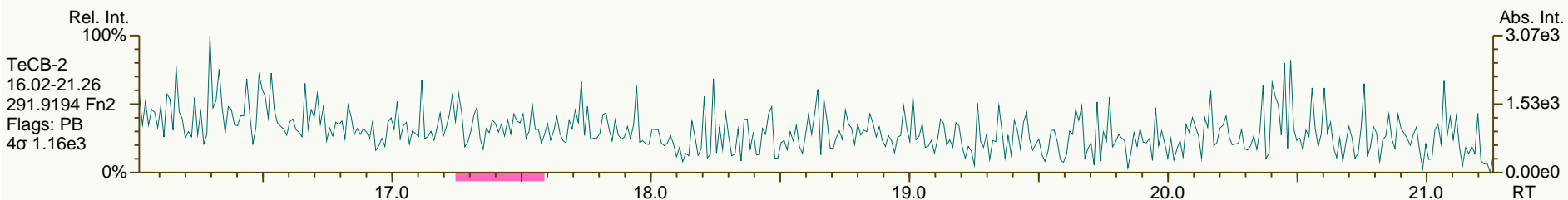
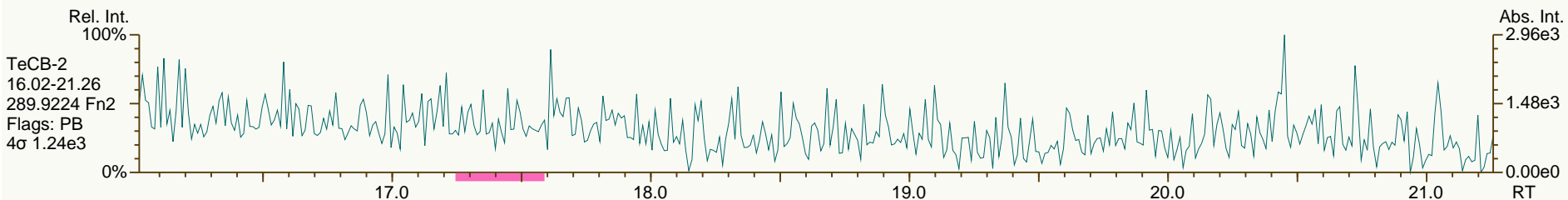
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 26-Mar-2014 20:11:52  
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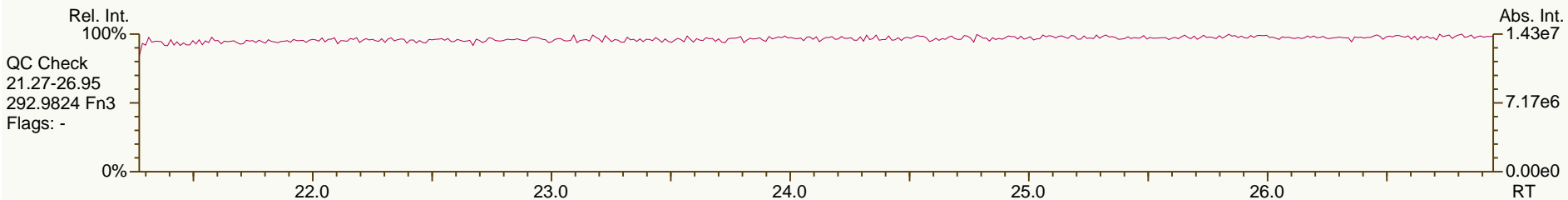
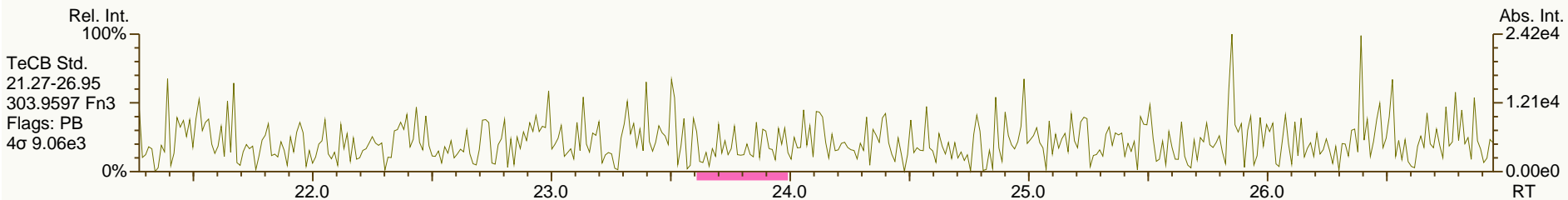
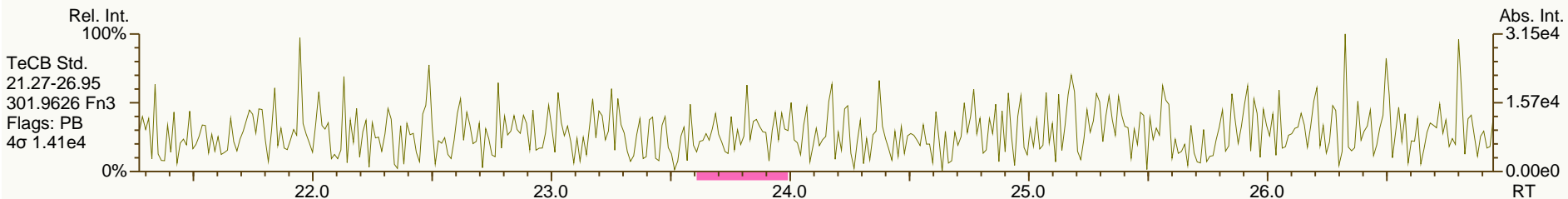
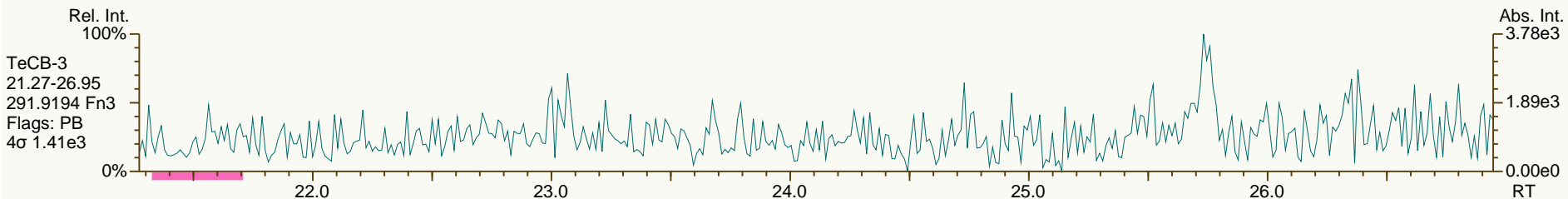
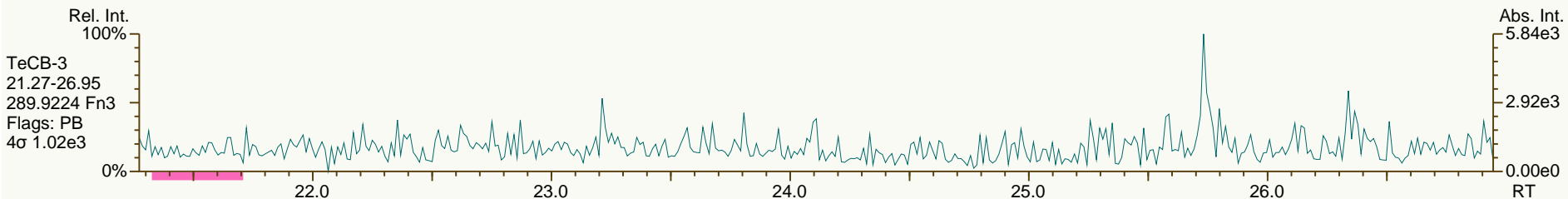




SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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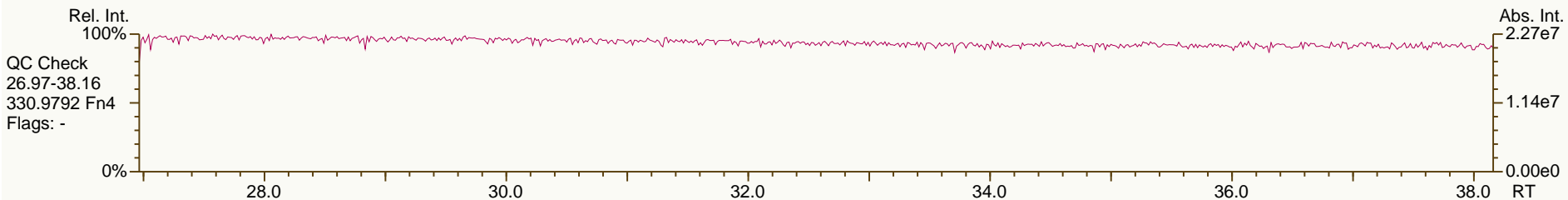
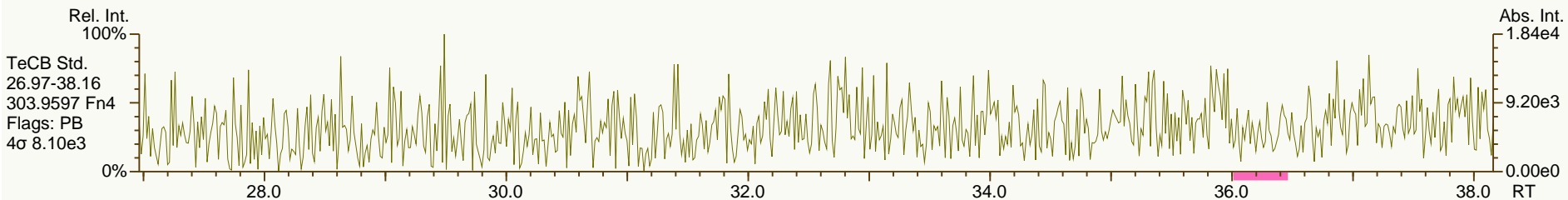
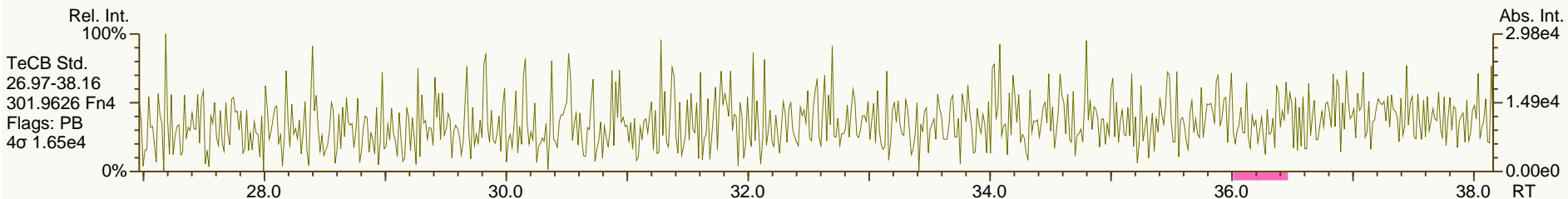
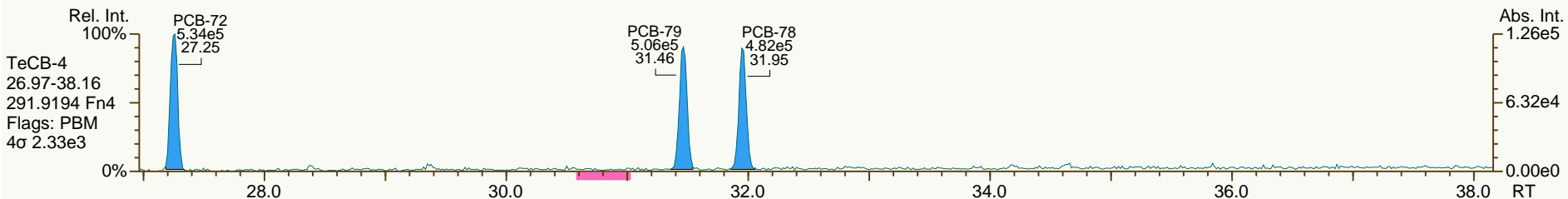
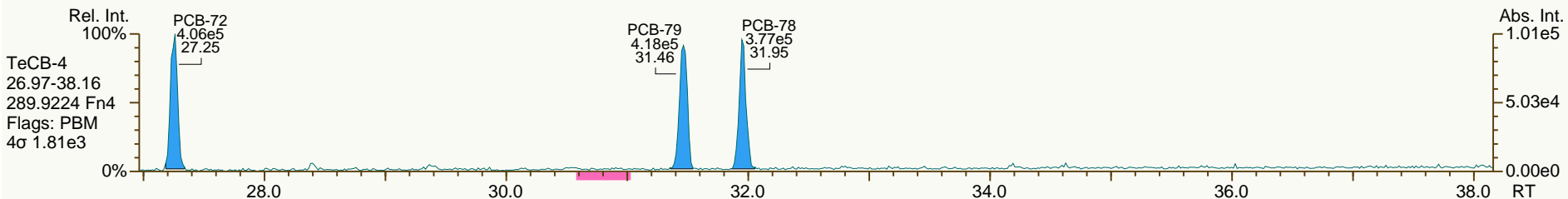
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

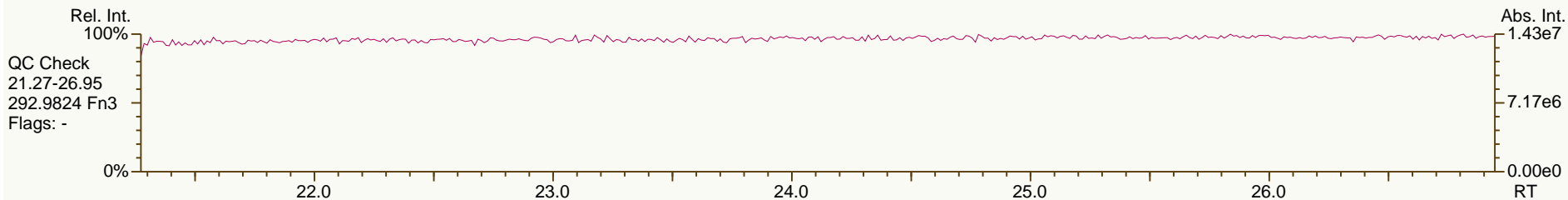
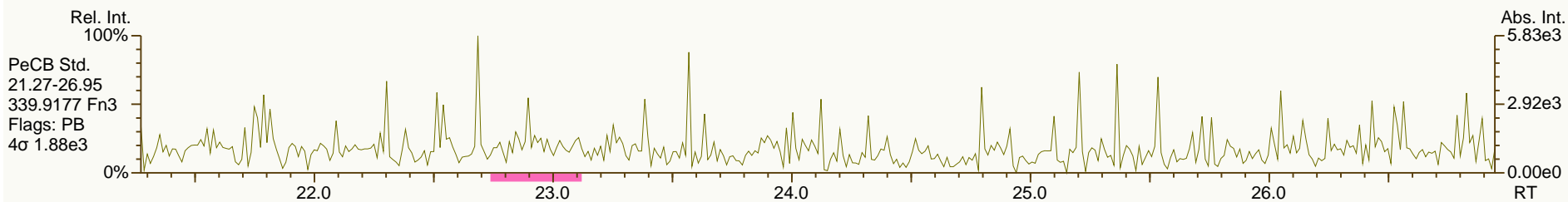
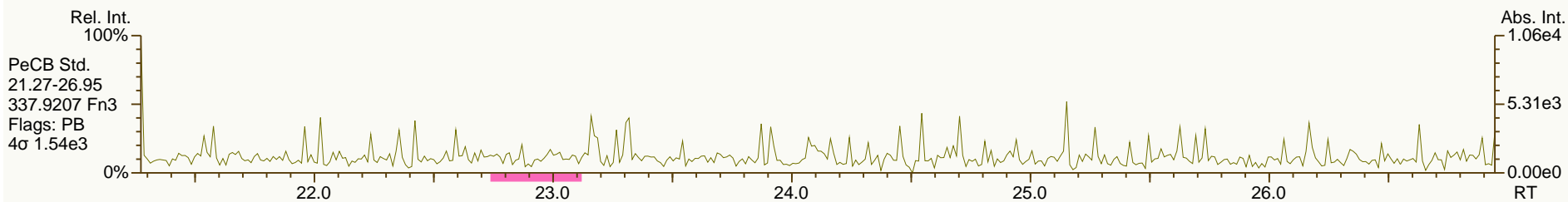
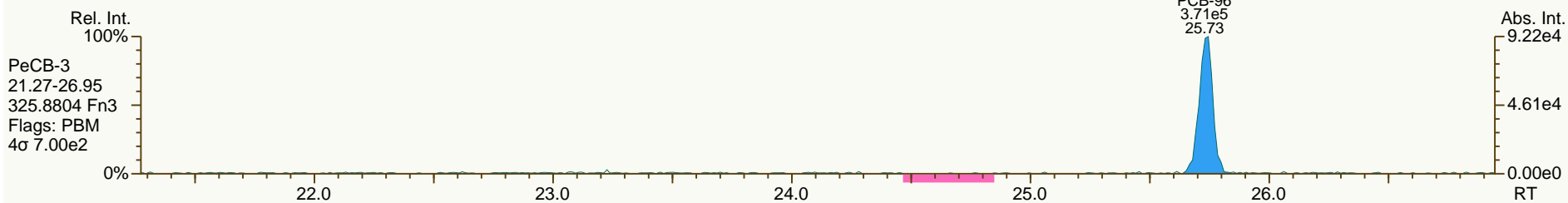
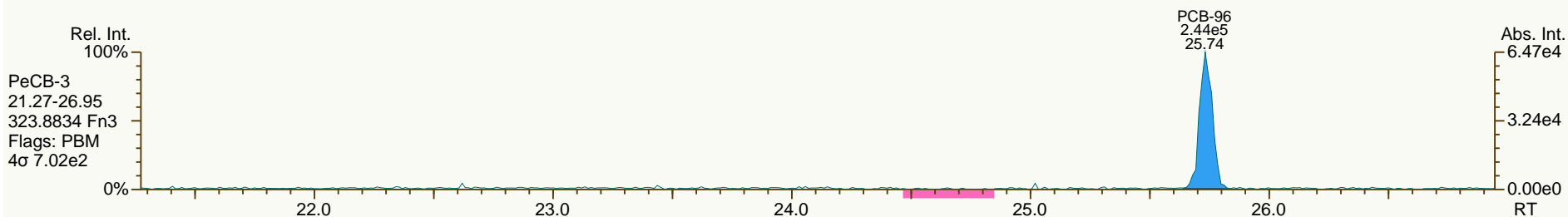
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SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

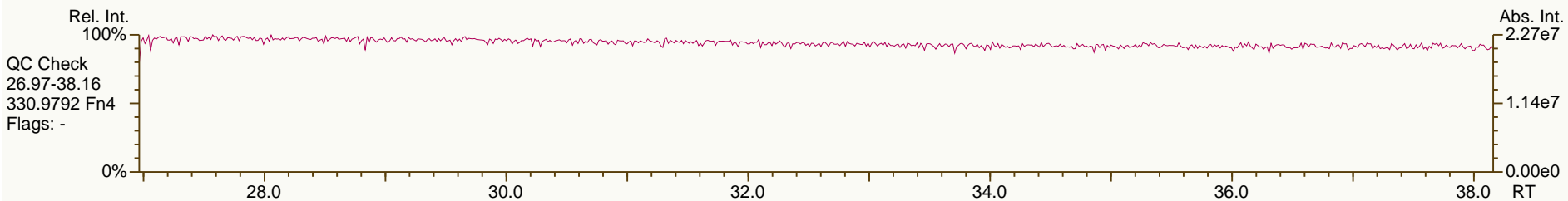
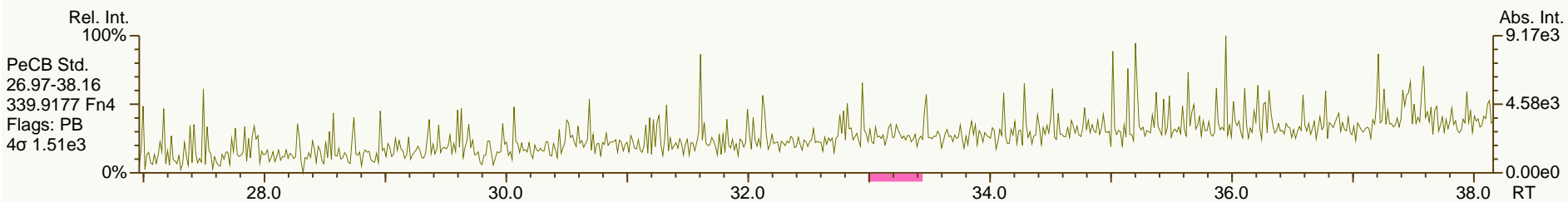
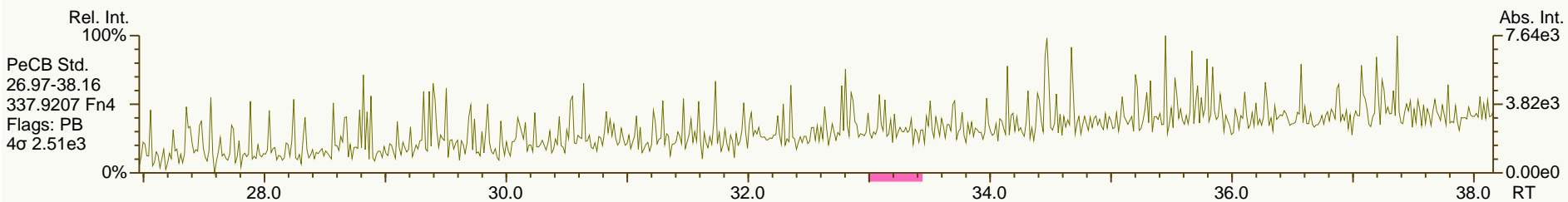
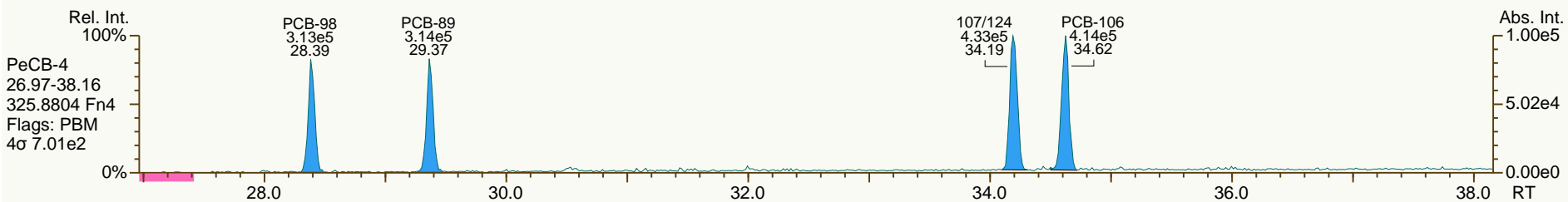
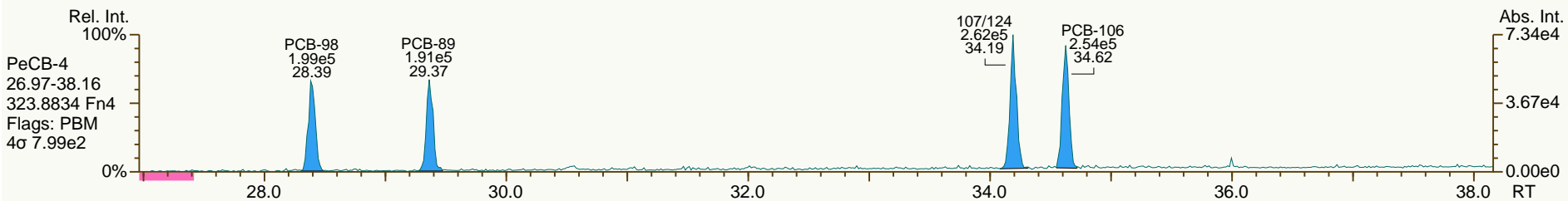
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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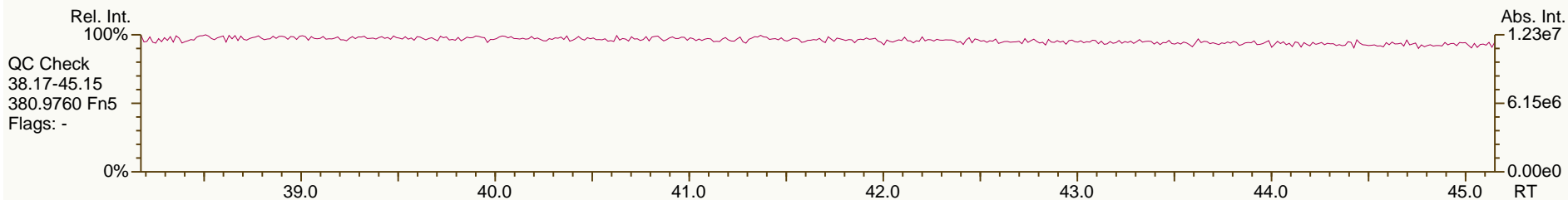
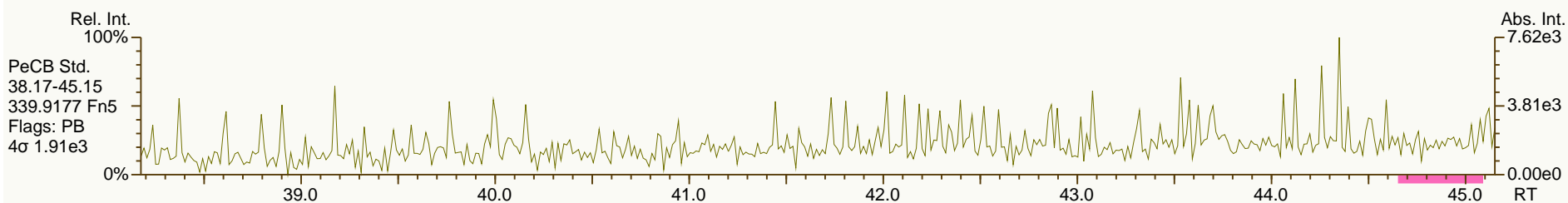
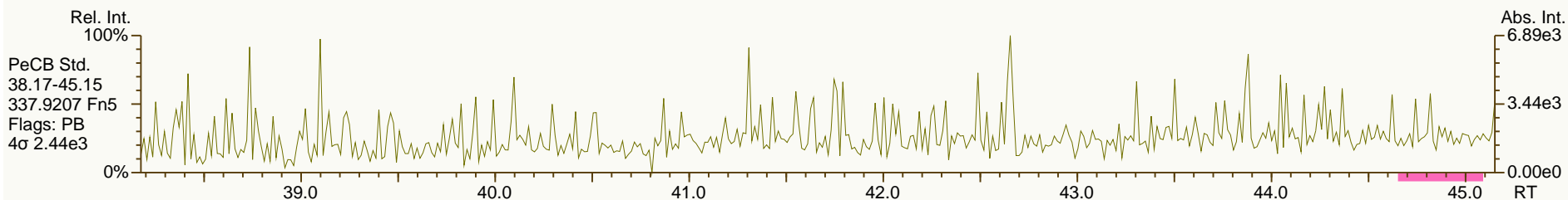
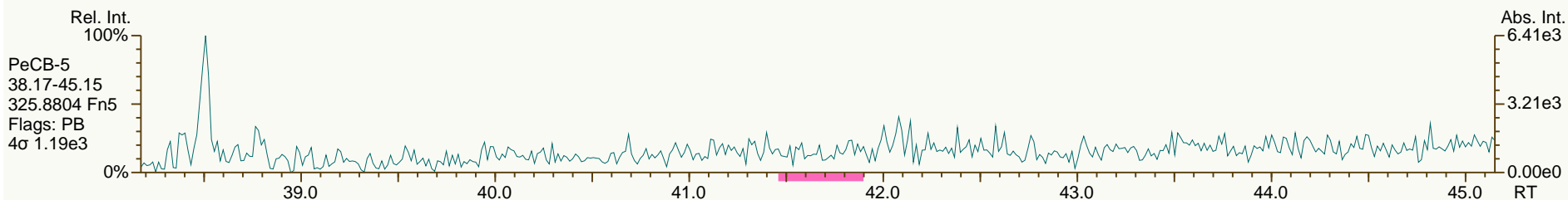
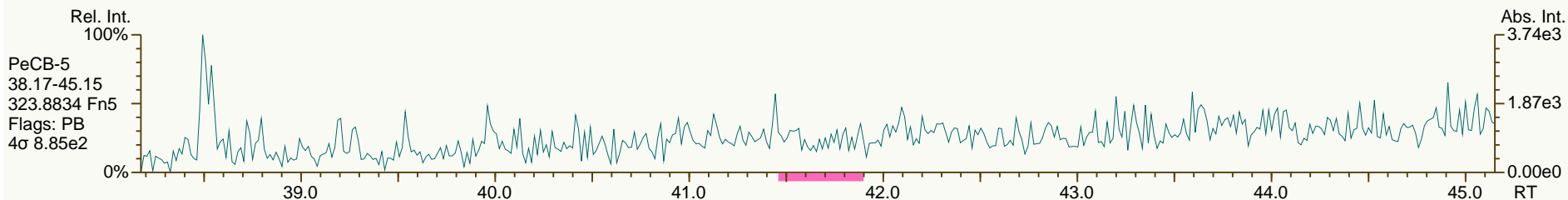
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SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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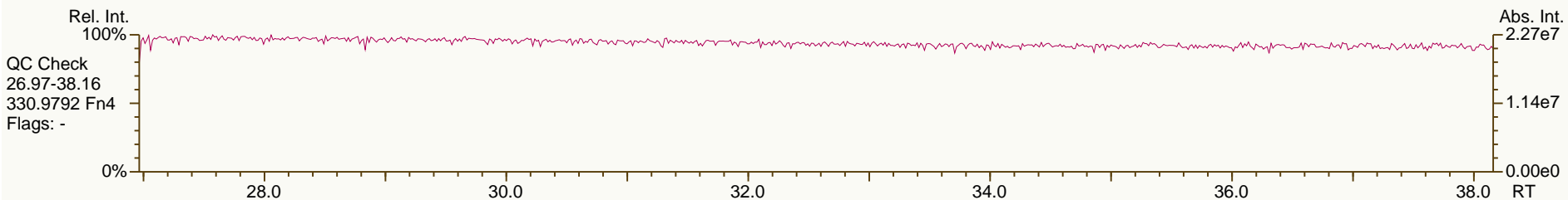
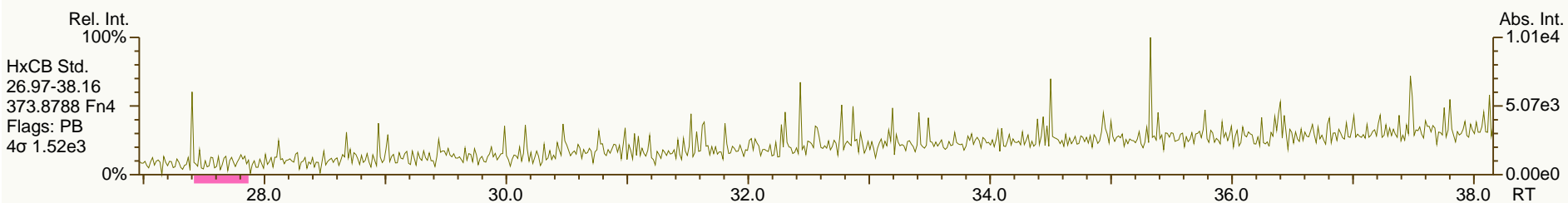
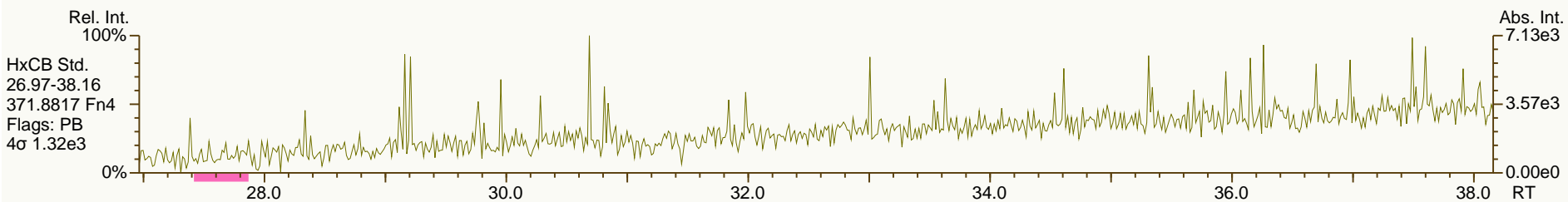
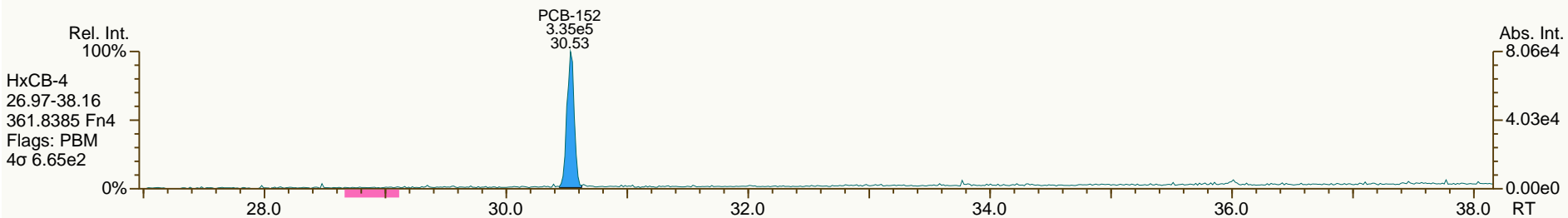
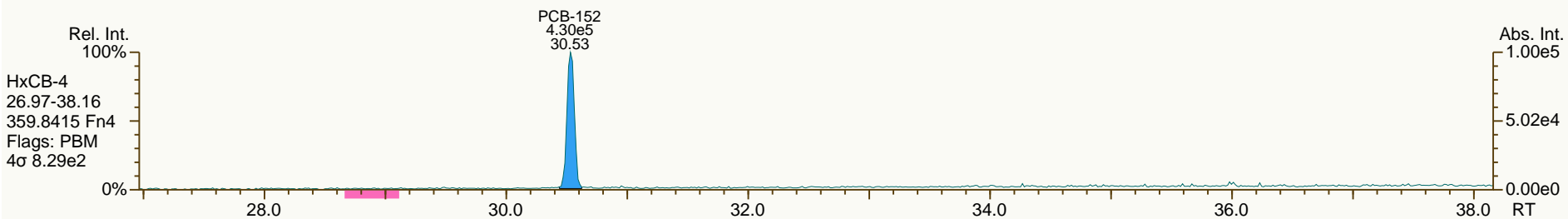
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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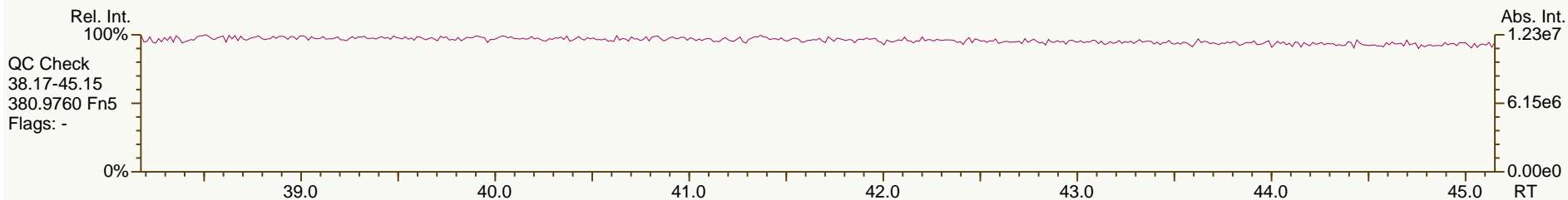
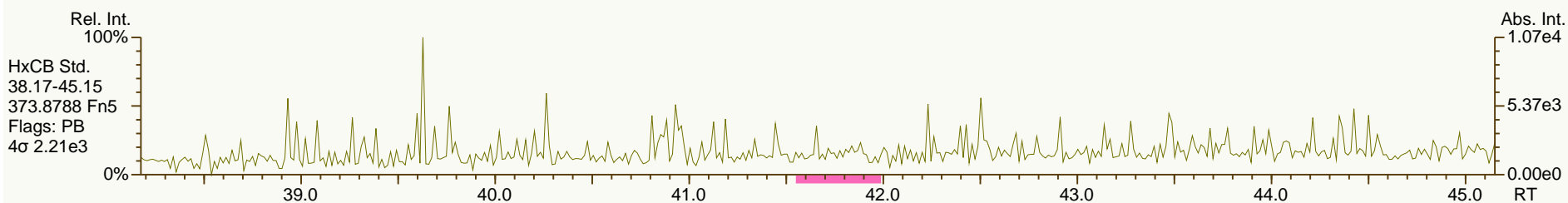
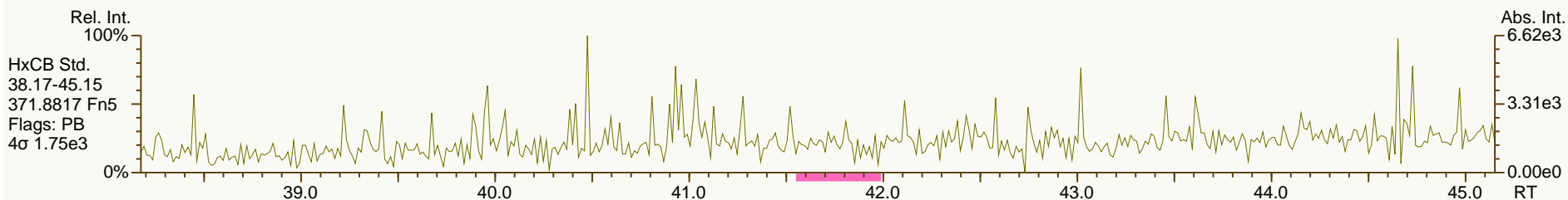
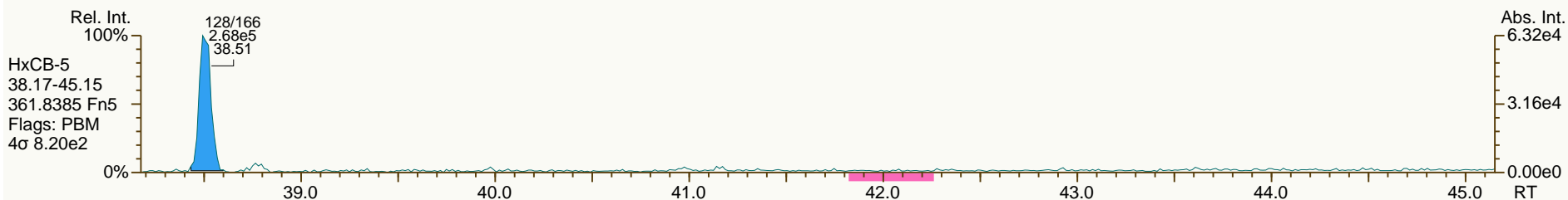
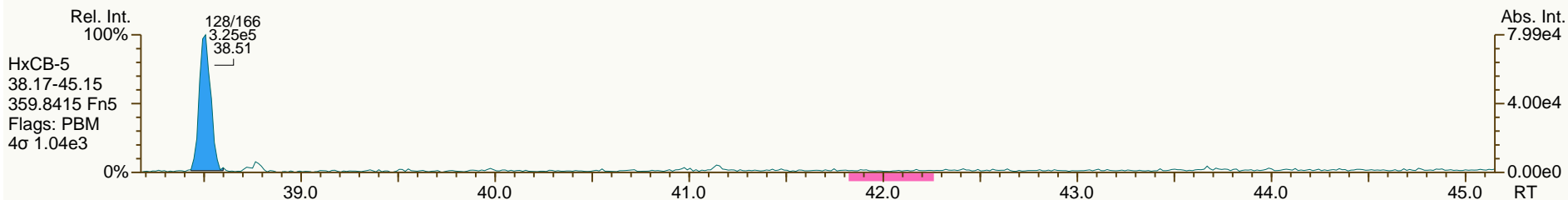
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SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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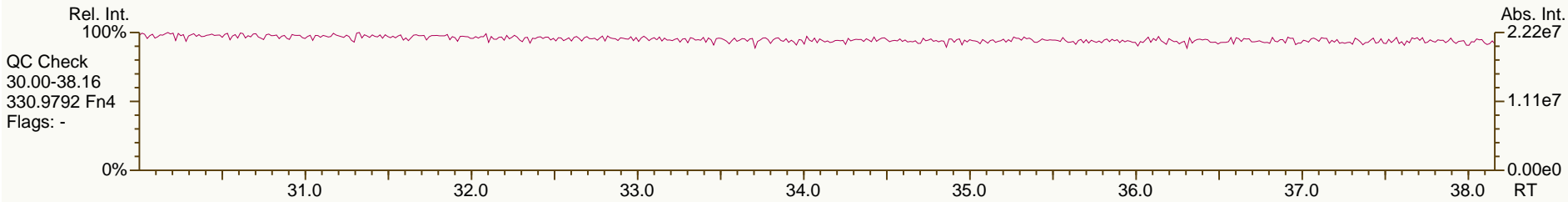
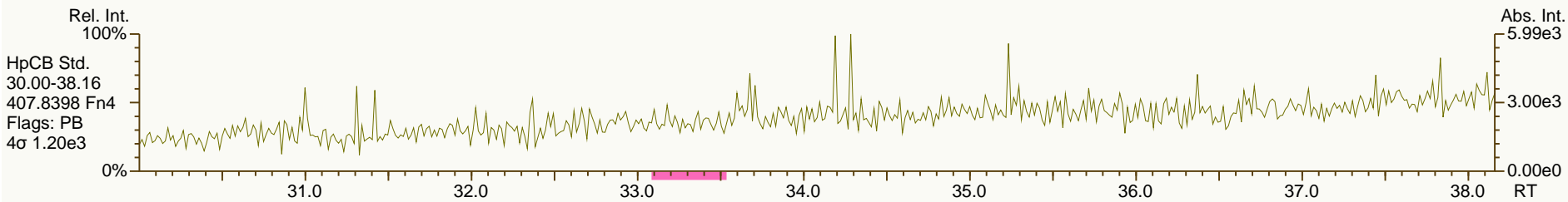
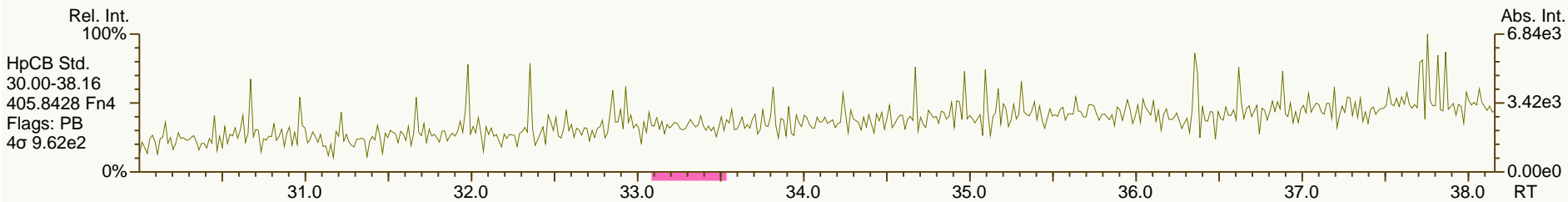
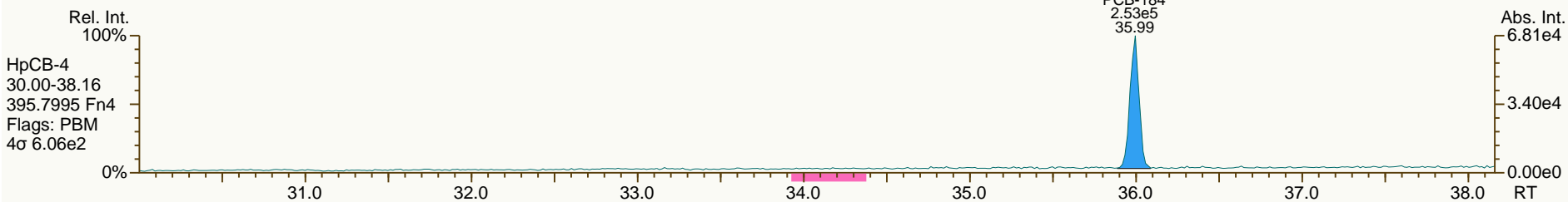
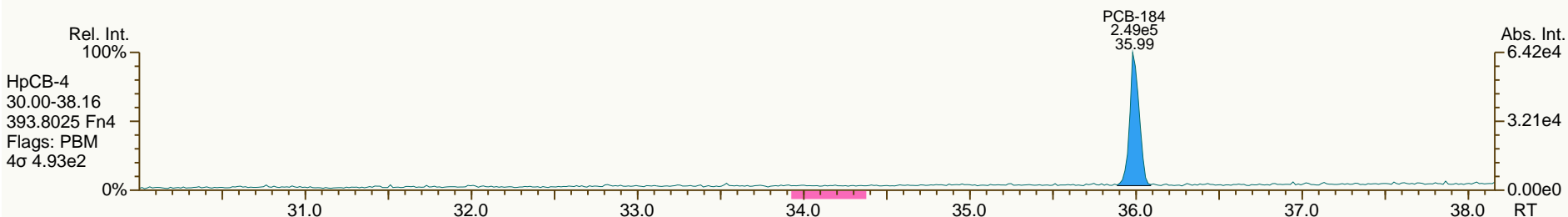
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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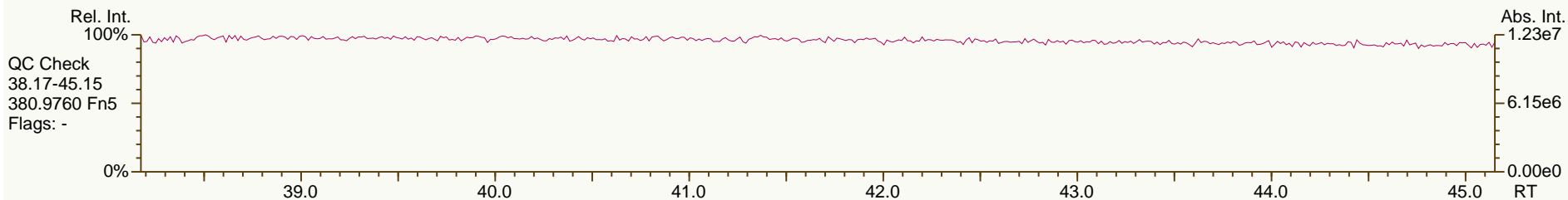
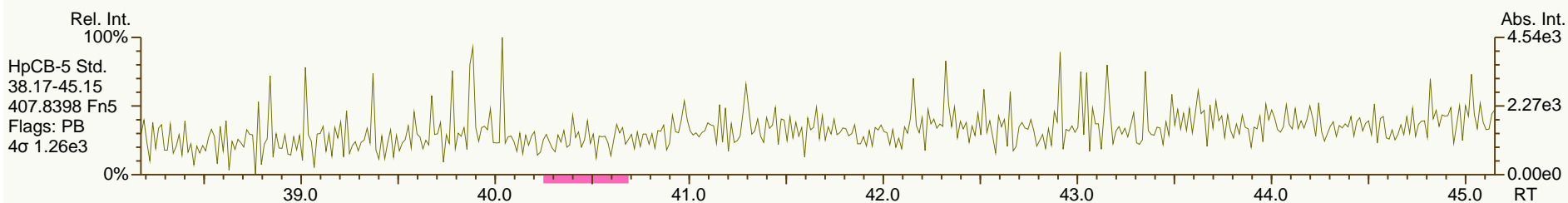
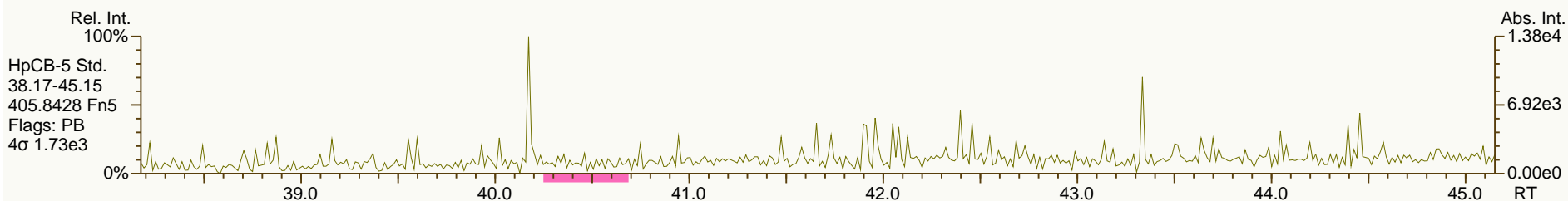
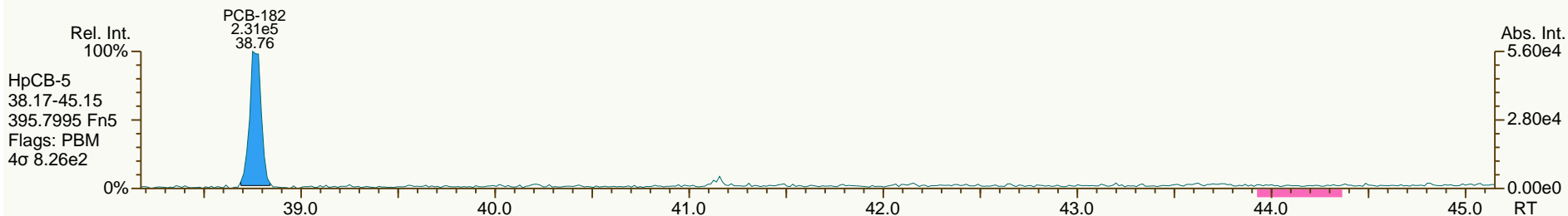
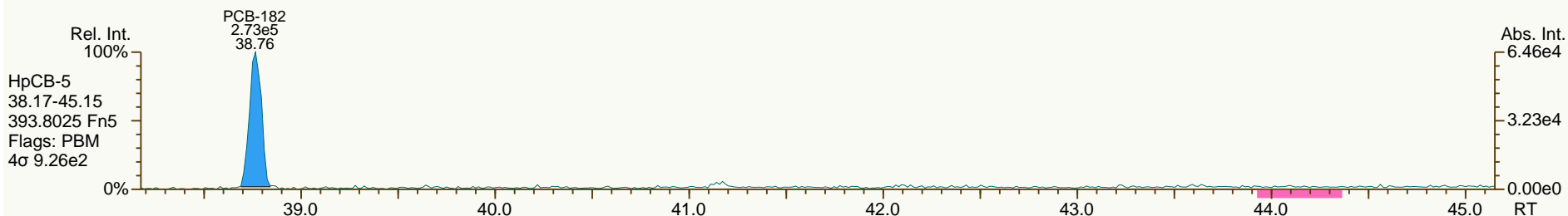




SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 26-Mar-2014 20:11:52  
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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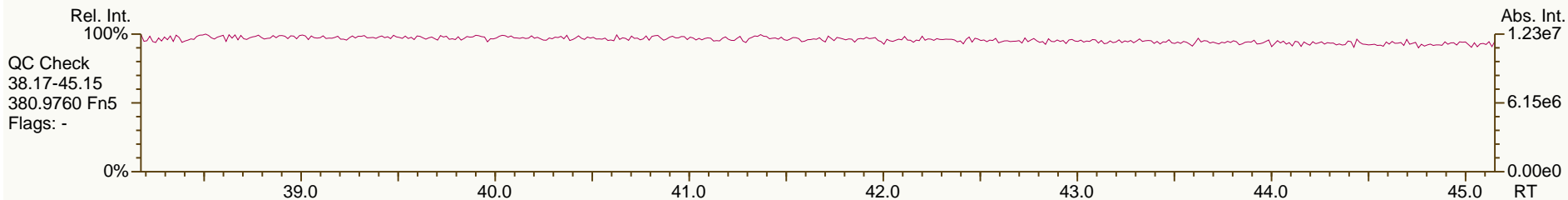
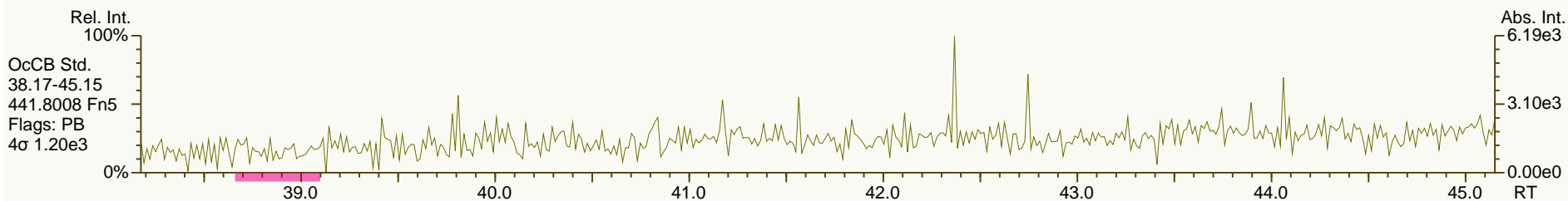
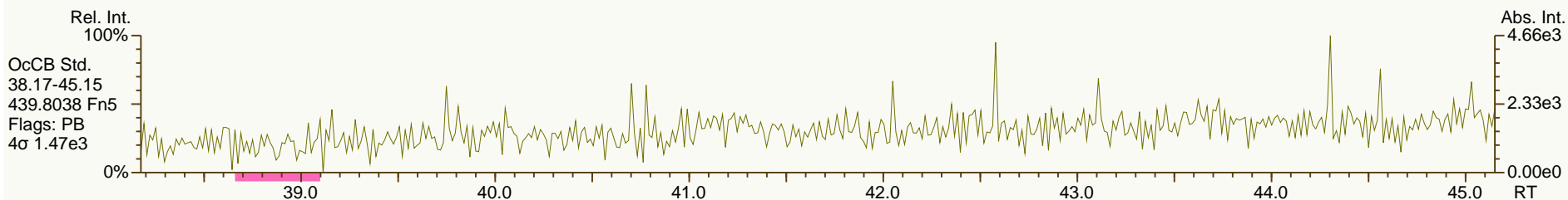
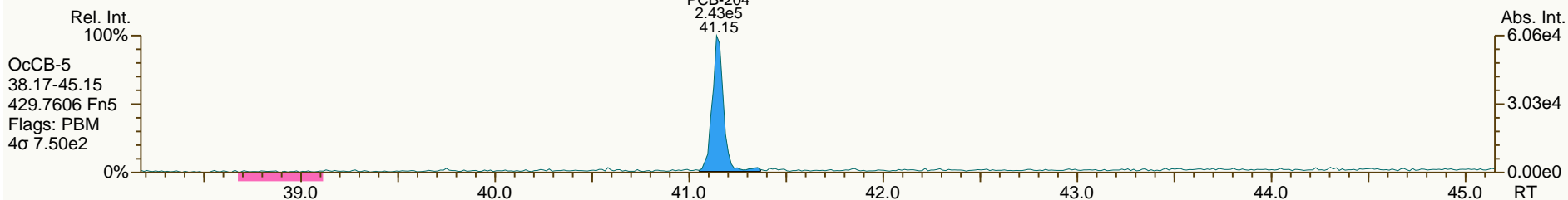
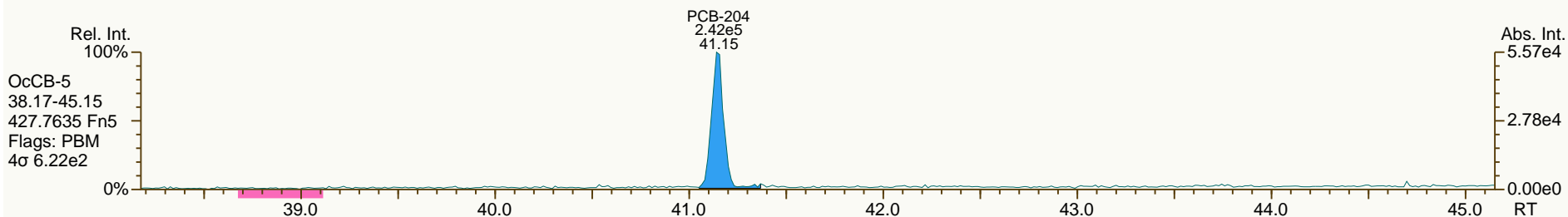
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SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 26-Mar-2014 20:11:52  
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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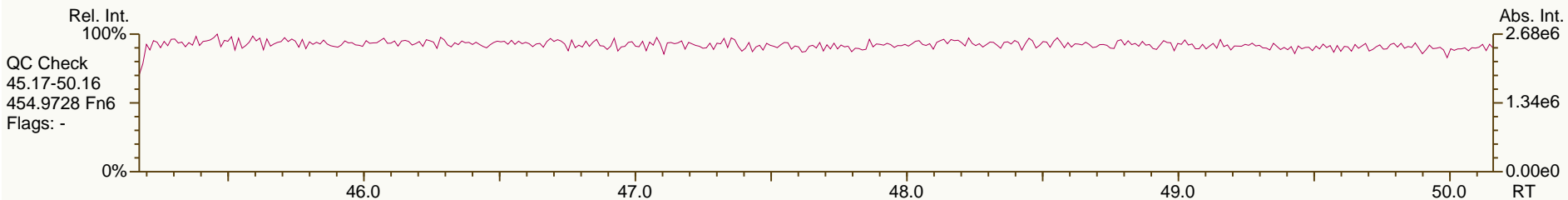
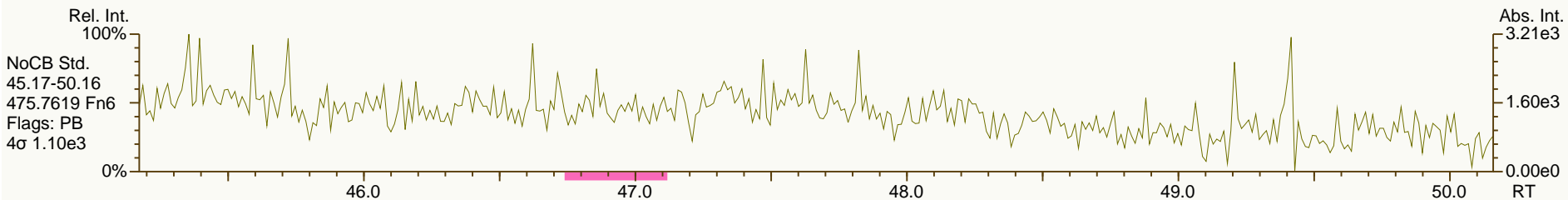
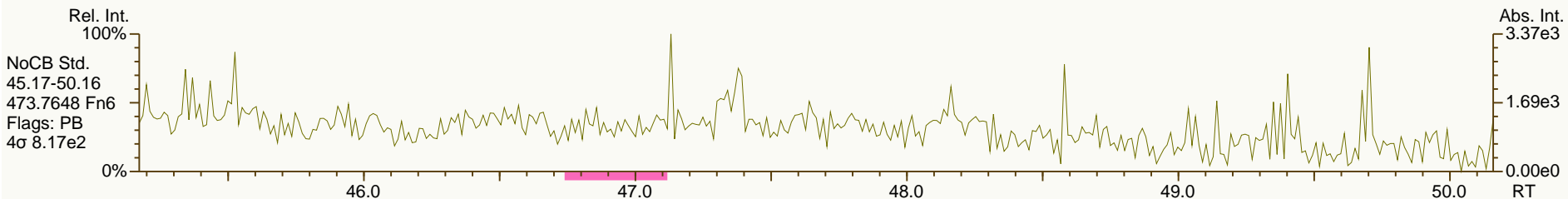
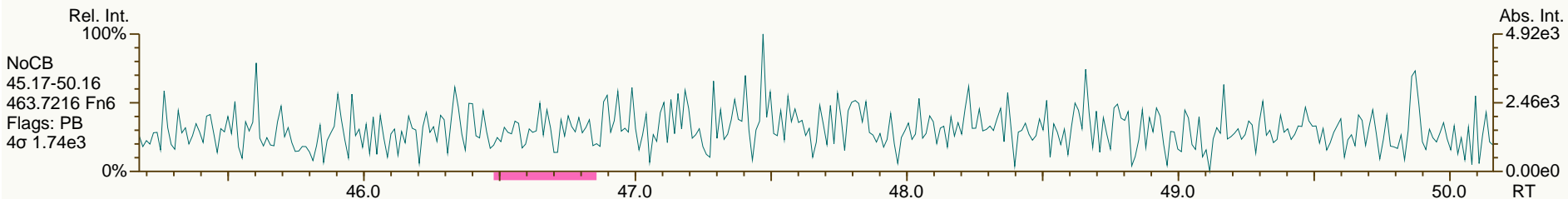
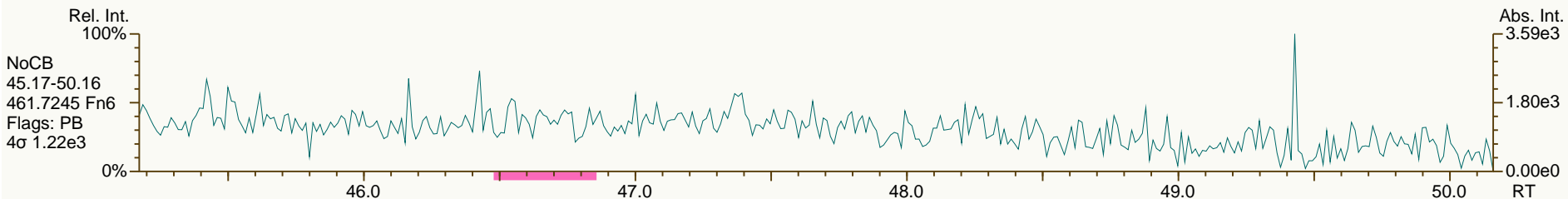
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SGS-AP ID: SBS\_140326\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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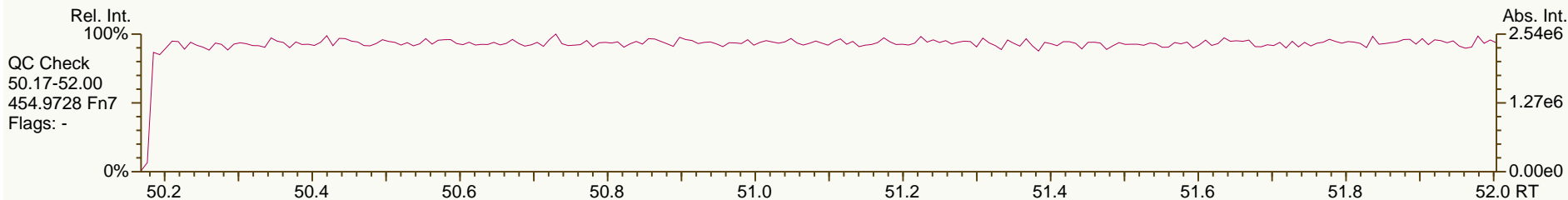
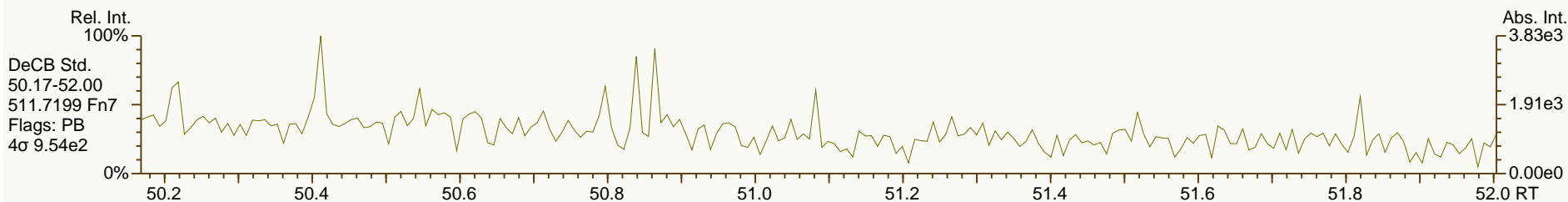
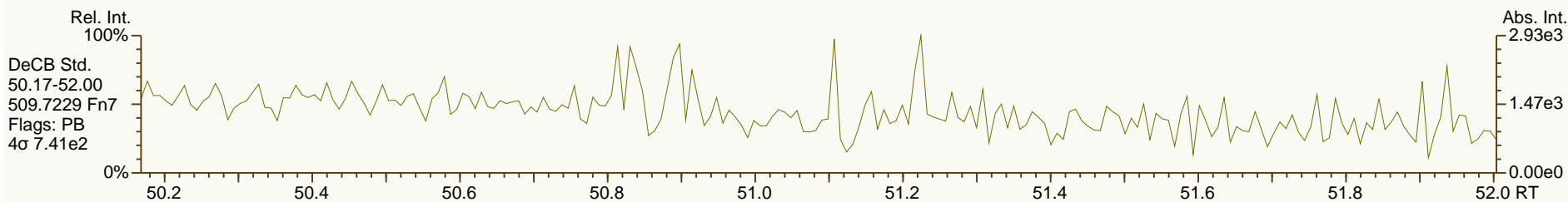
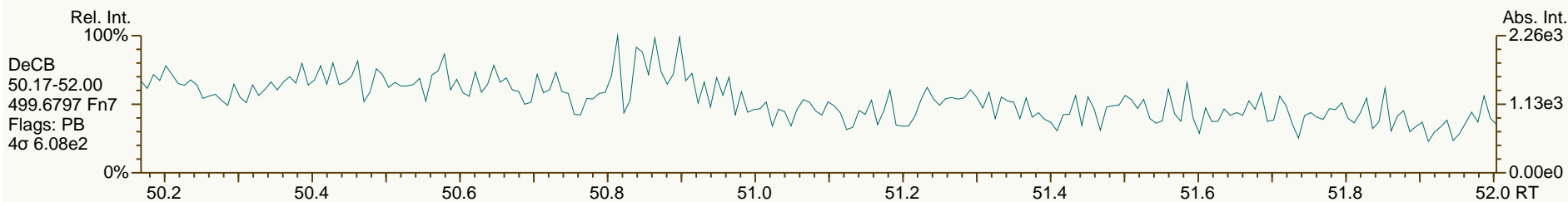
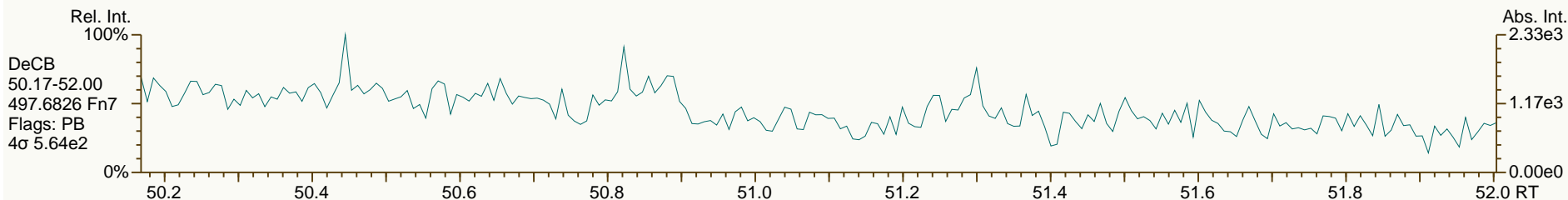
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SGS-AP ID: SBS\_140326\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

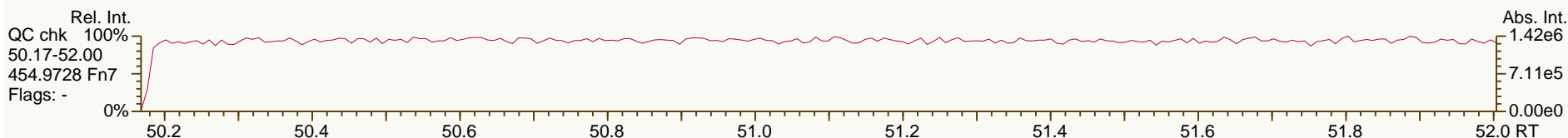
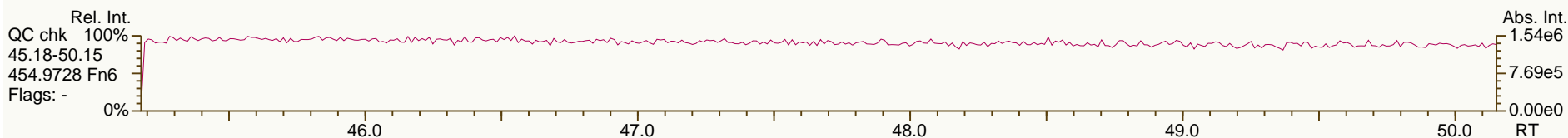
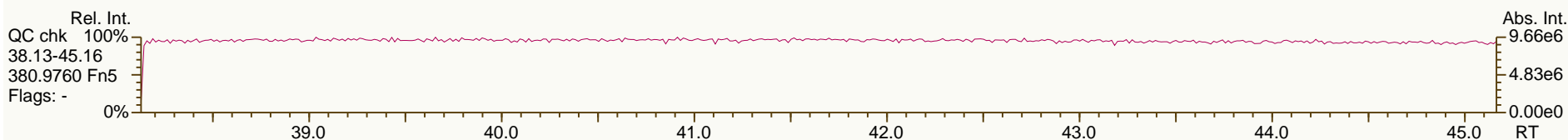
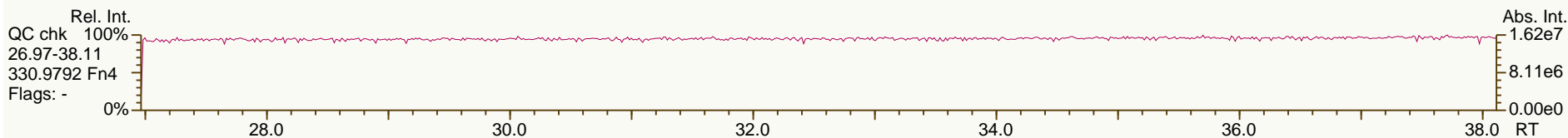
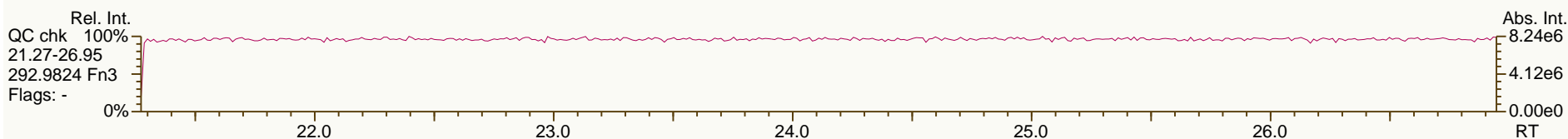
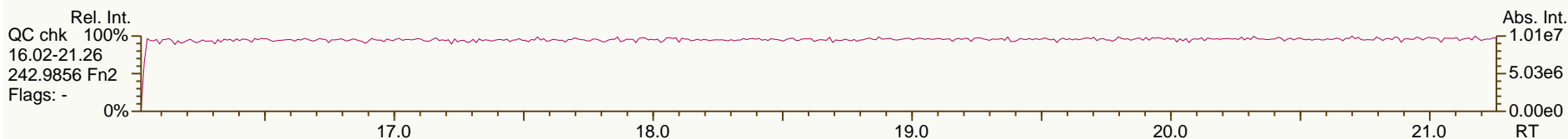
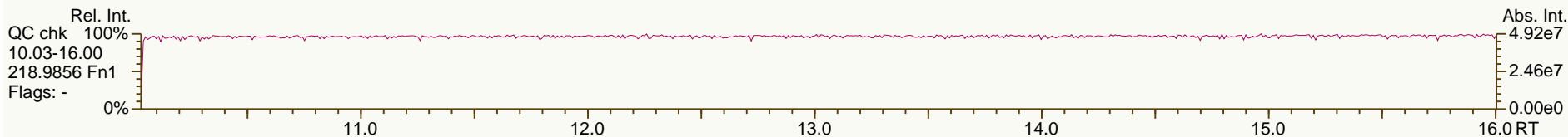
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SGS-AP ID: SBS\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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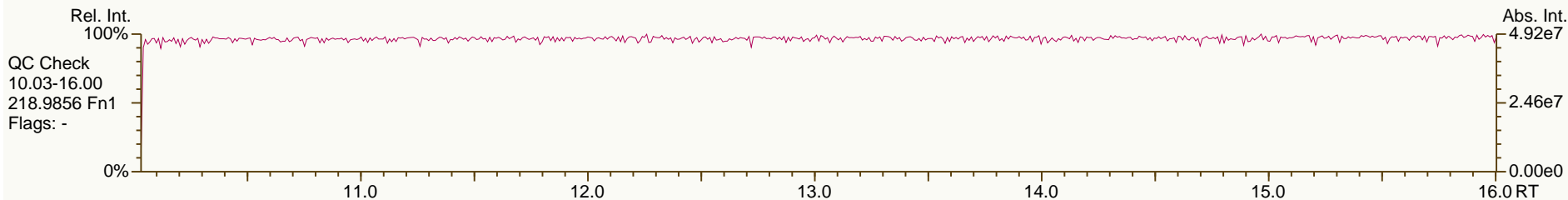
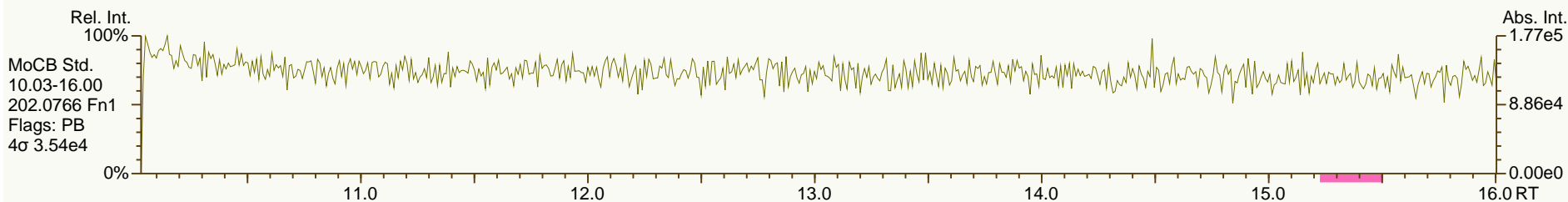
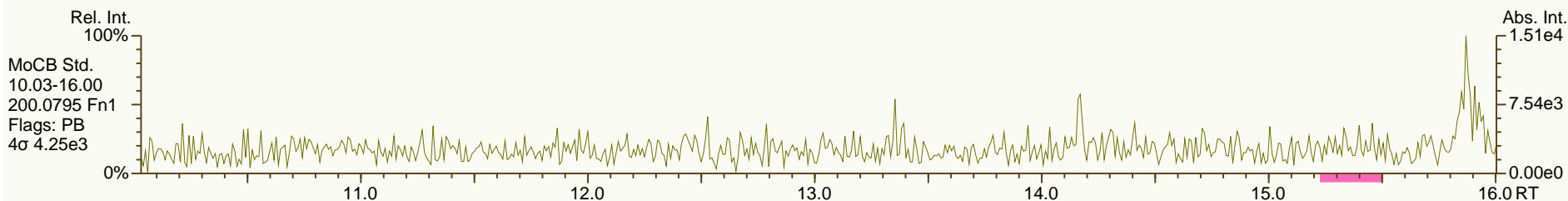
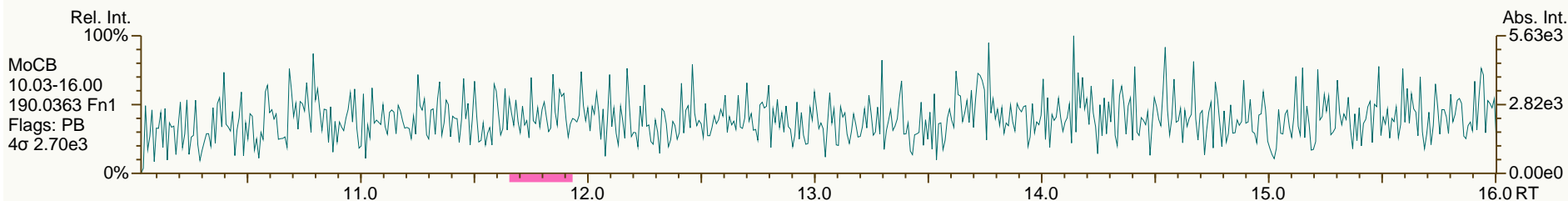
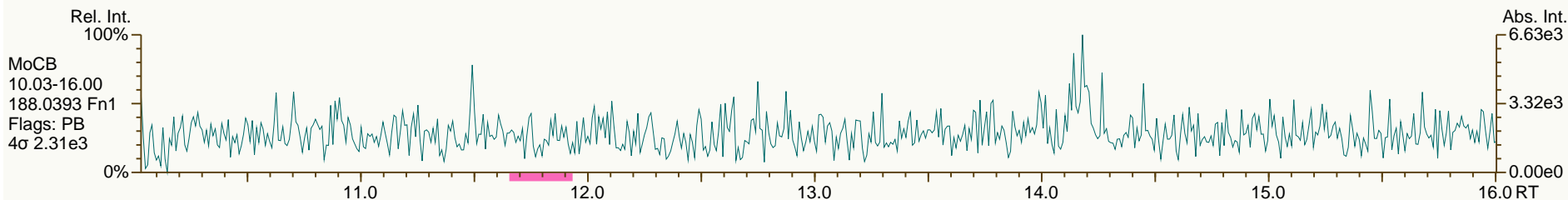
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SGS-AP ID: SBS\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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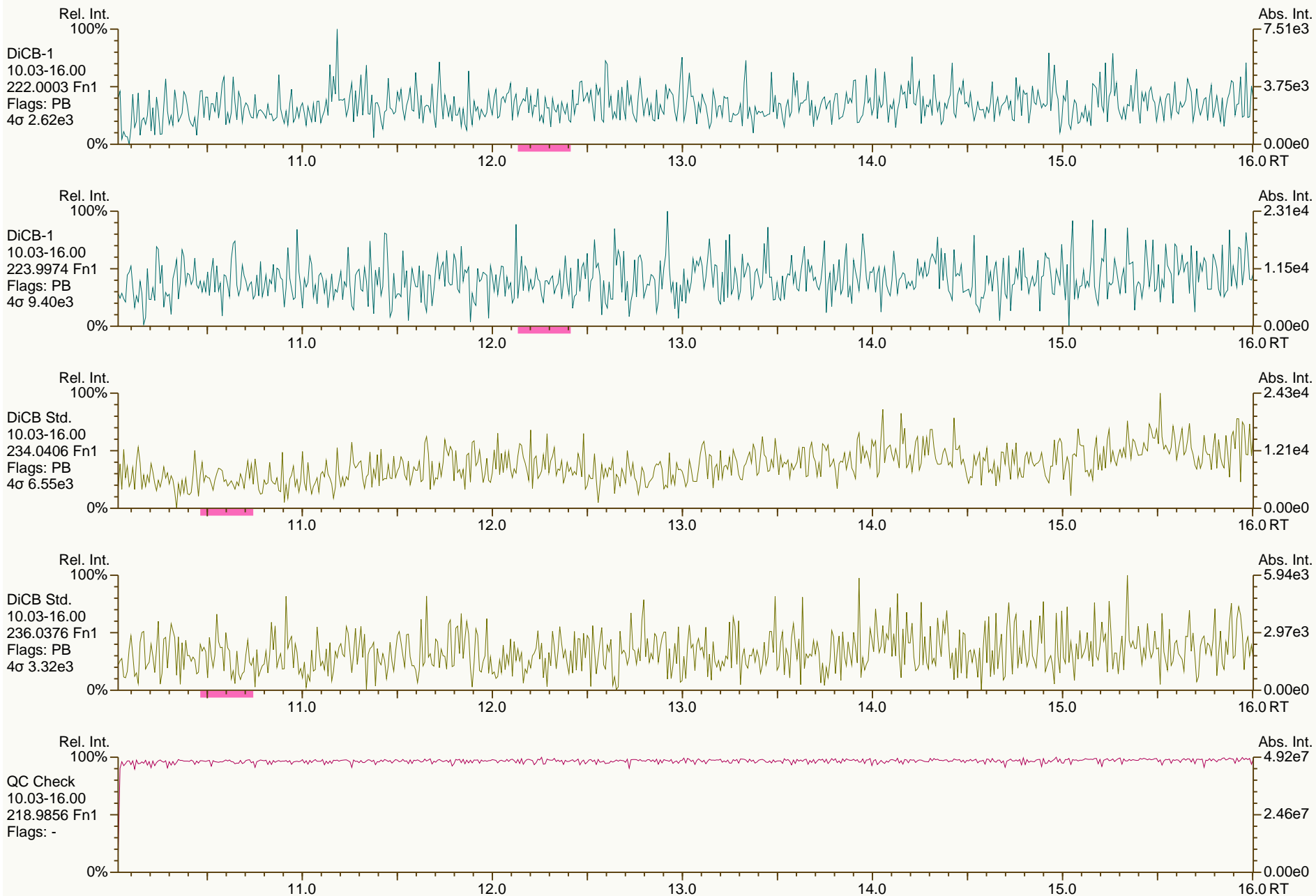




SGS-AP ID: SBS\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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SGS-AP ID: SBS\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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SGS-AP ID: SBS\_140328\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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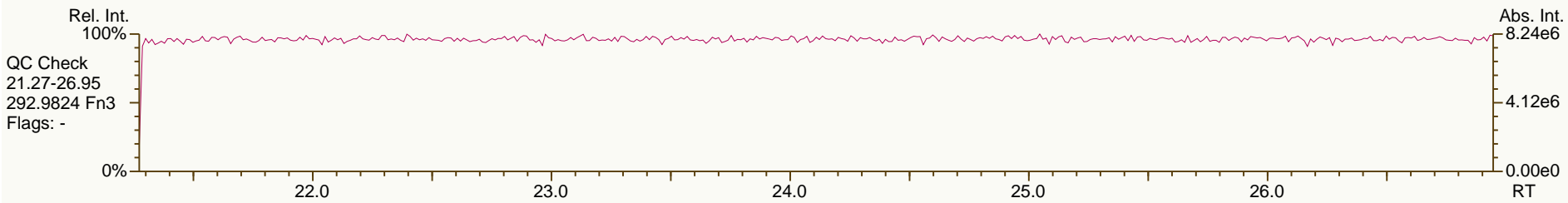
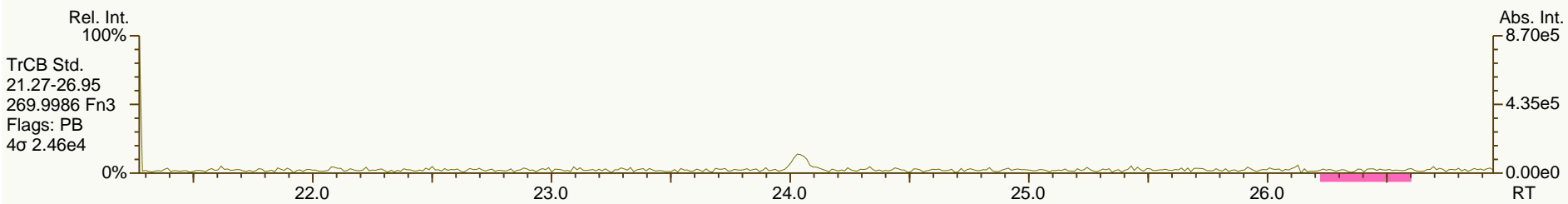
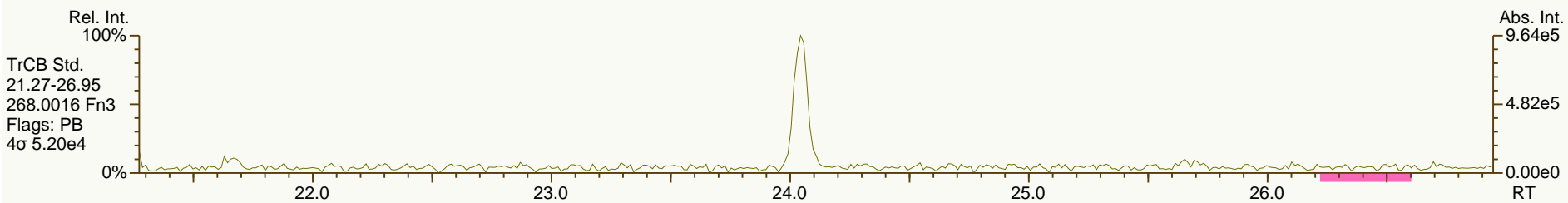
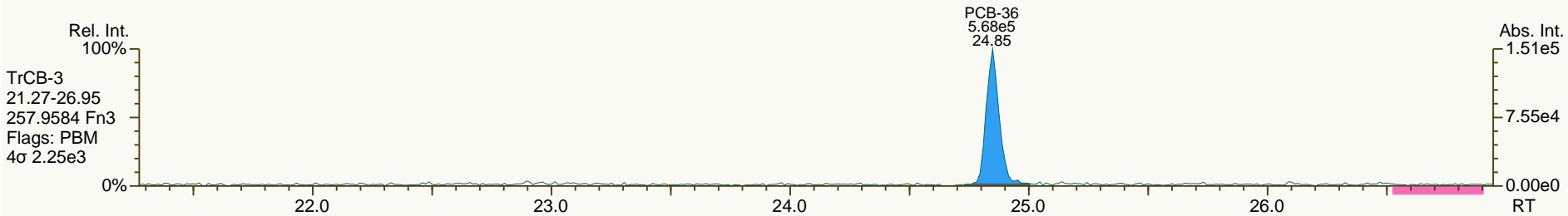
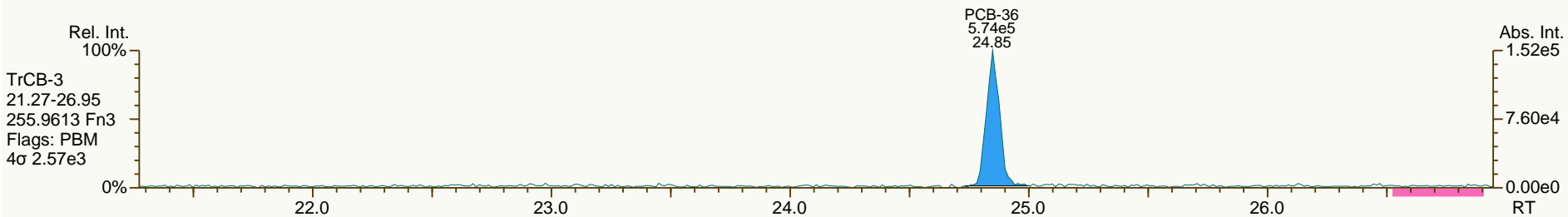
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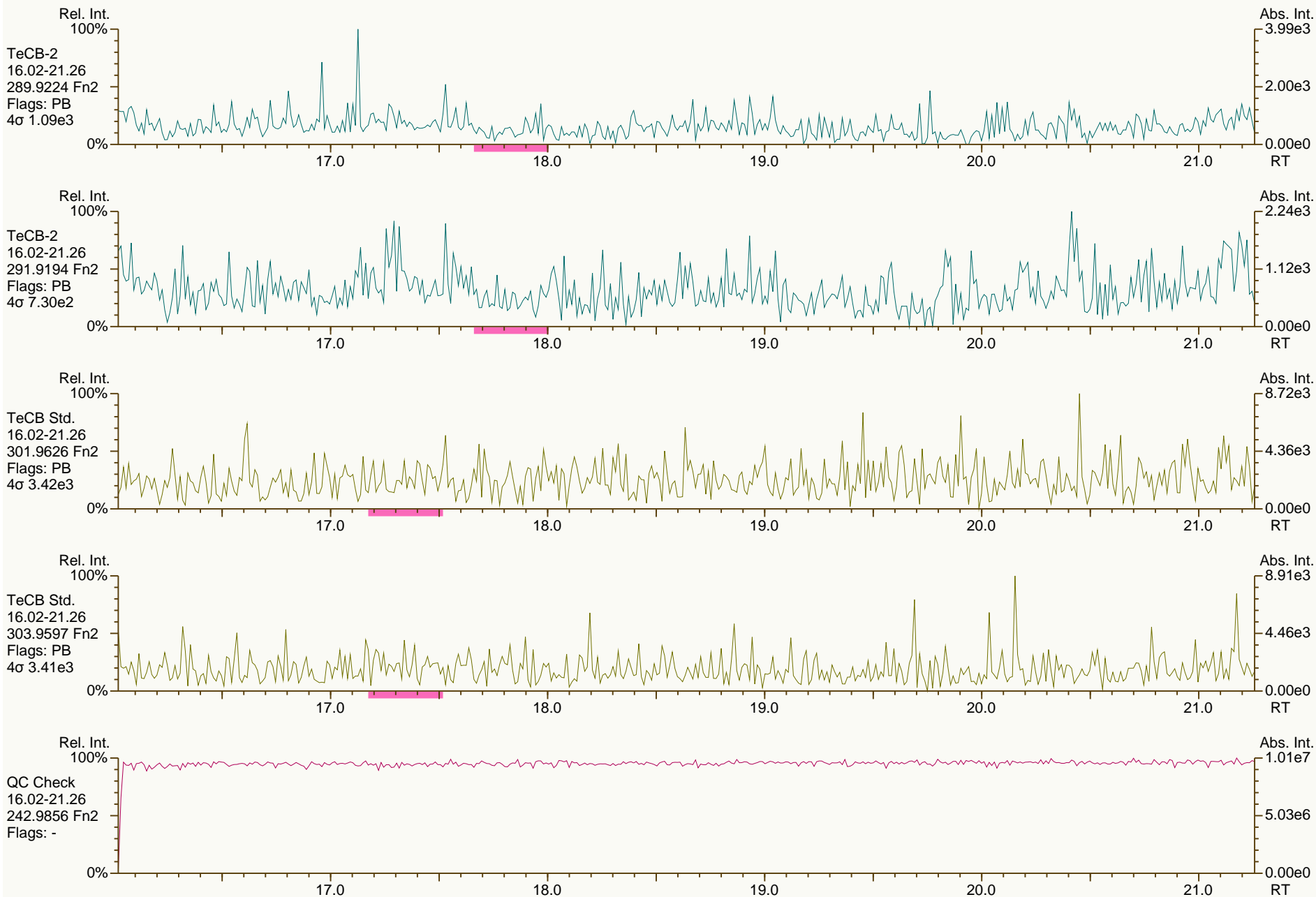
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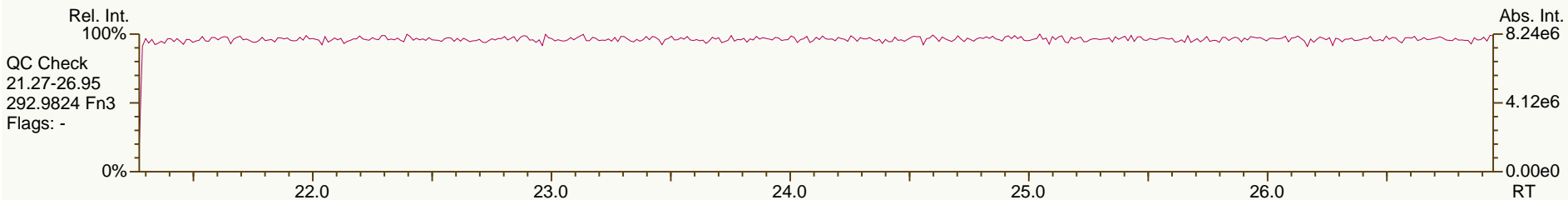
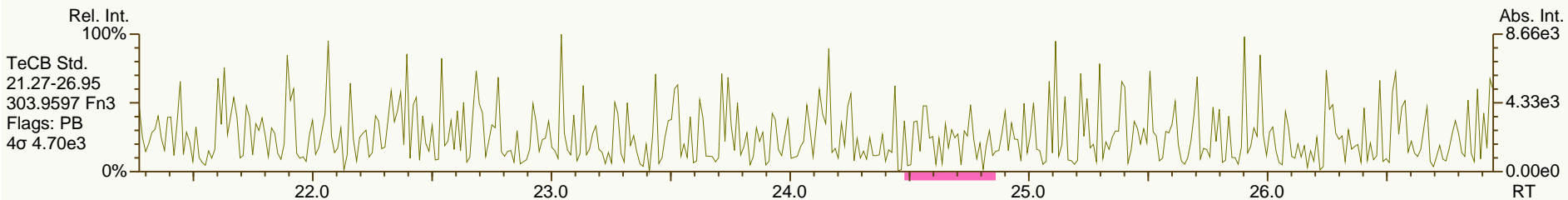
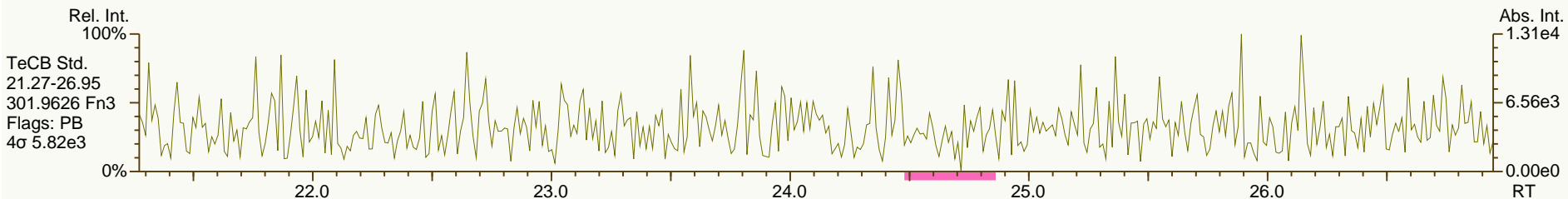
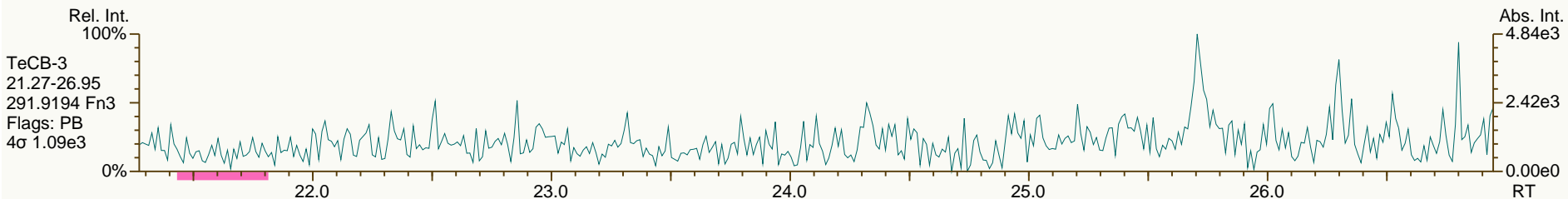
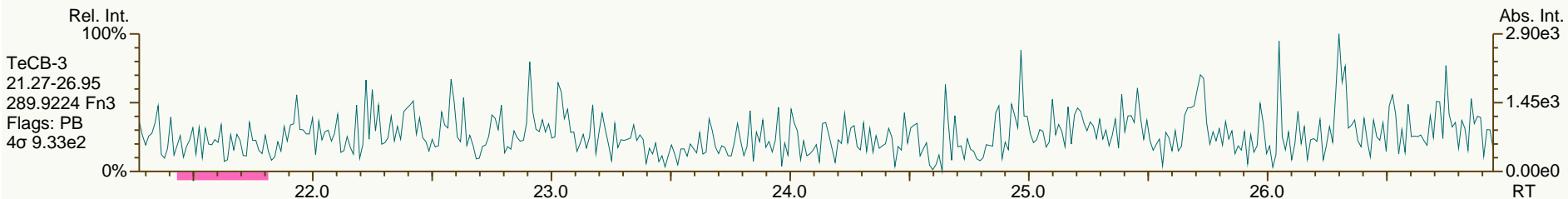
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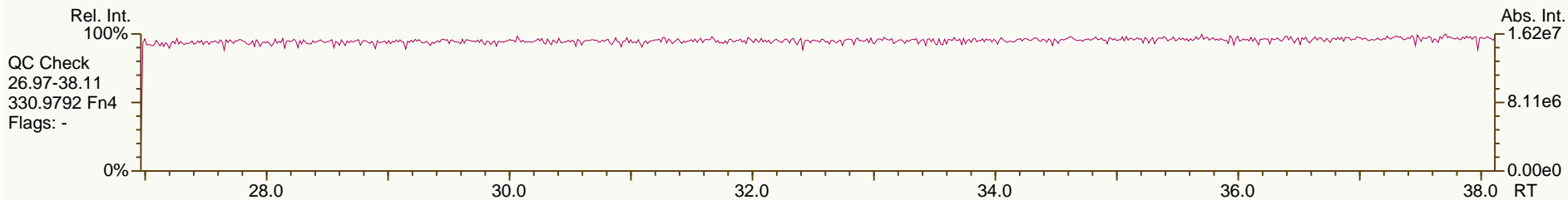
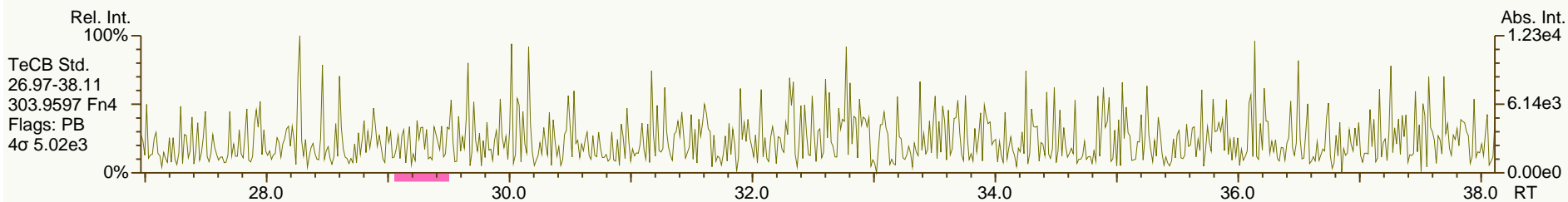
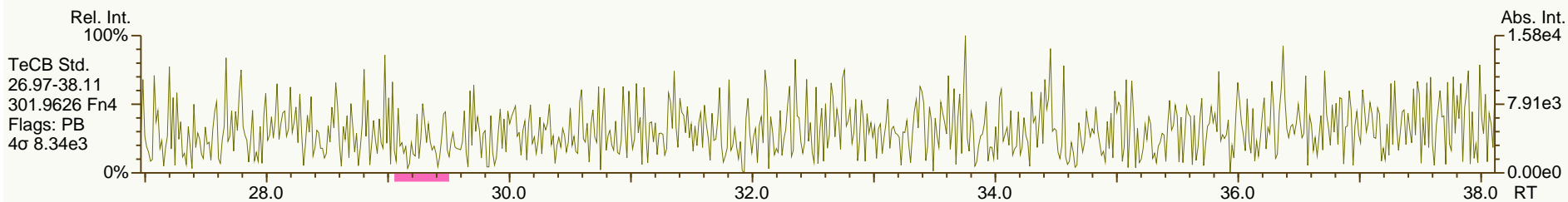
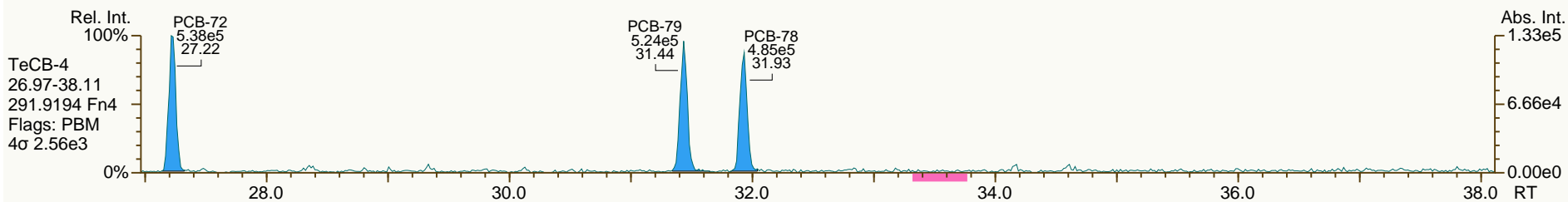
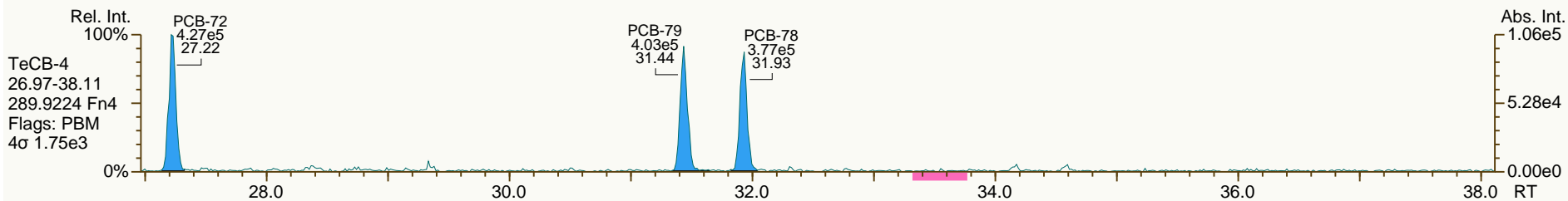
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SGS-AP ID: SBS\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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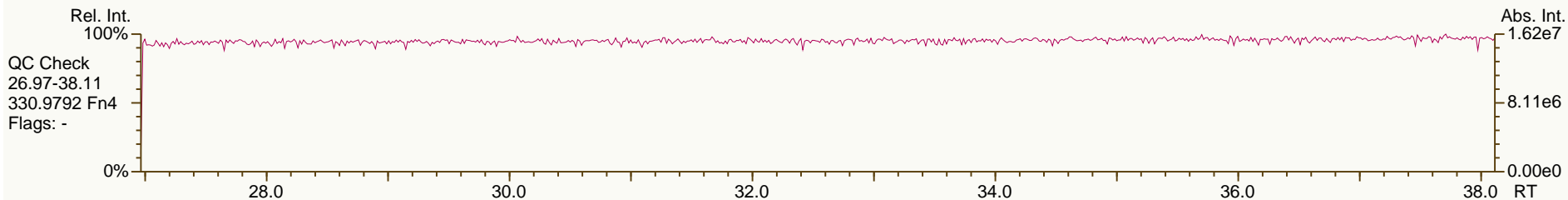
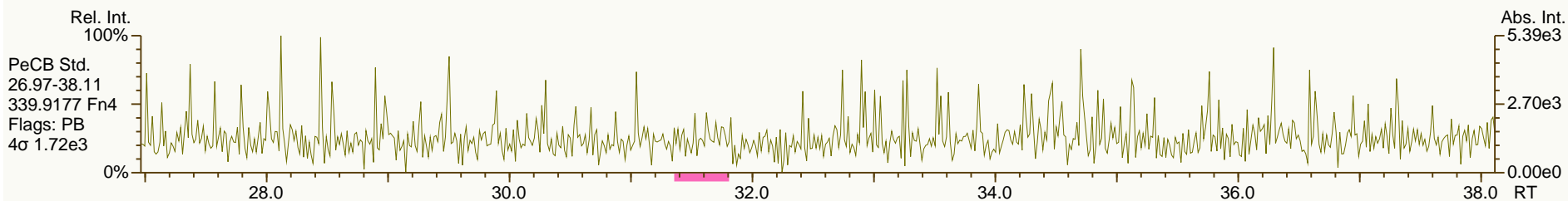
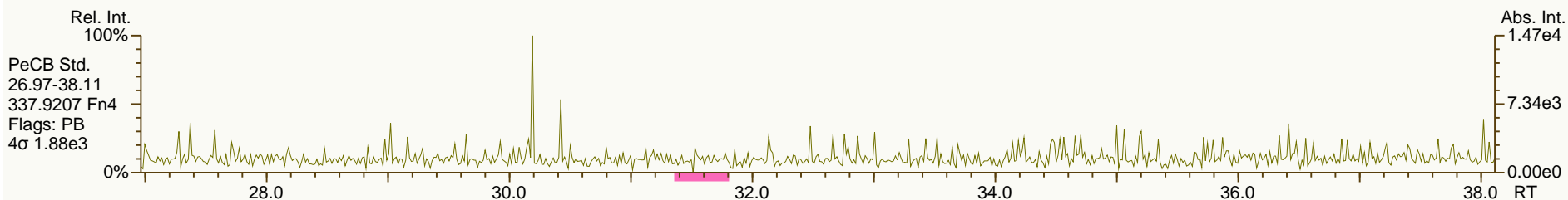
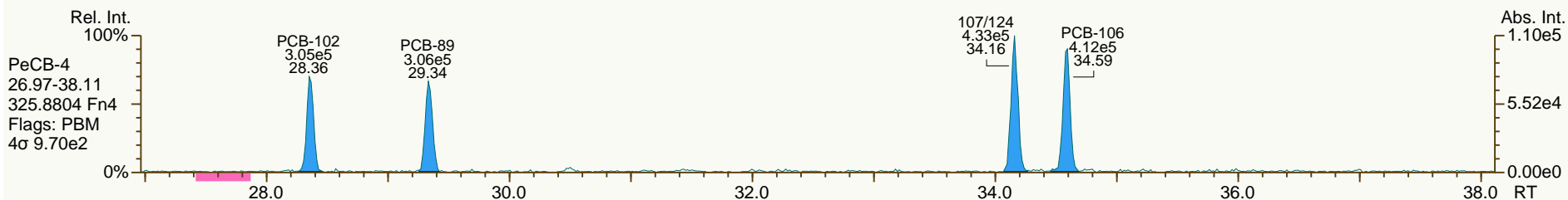
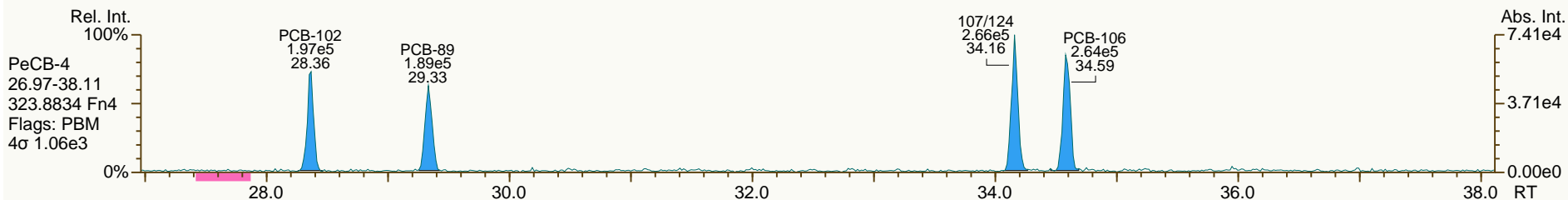




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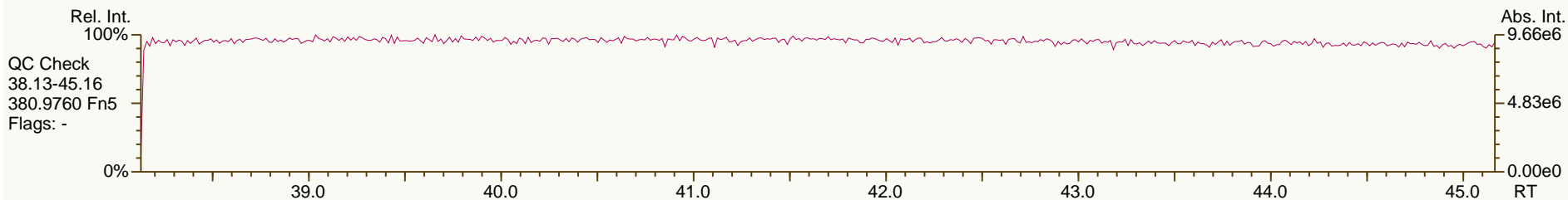
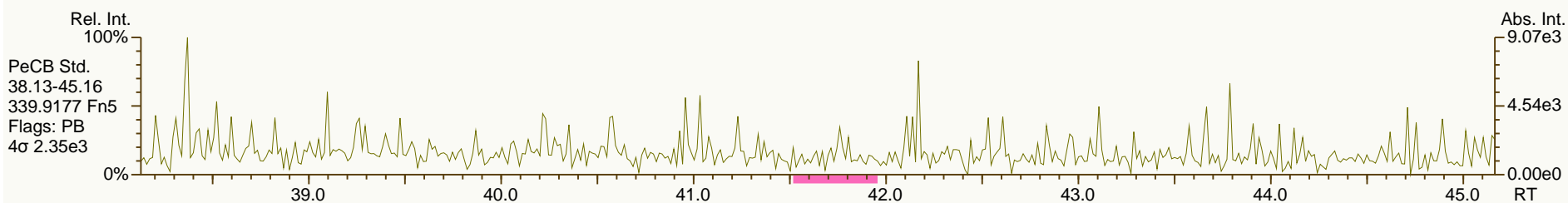
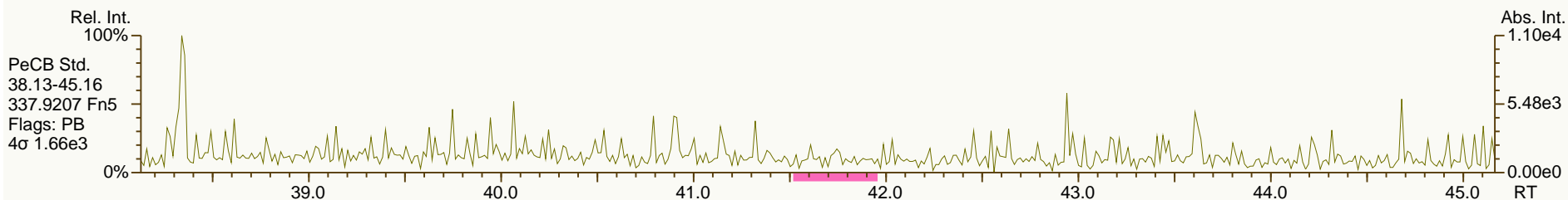
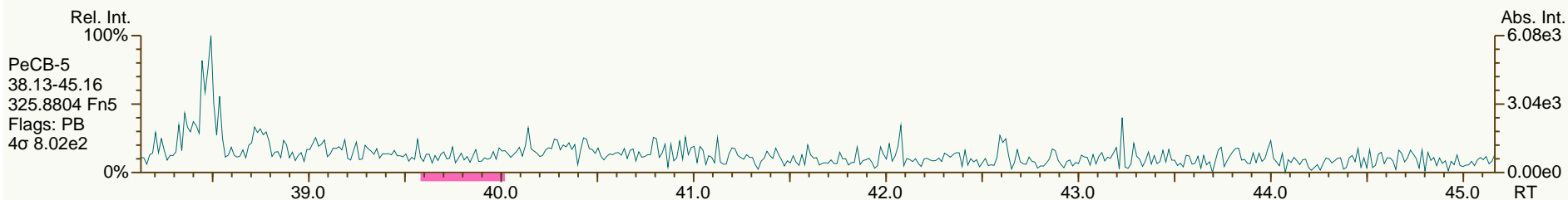
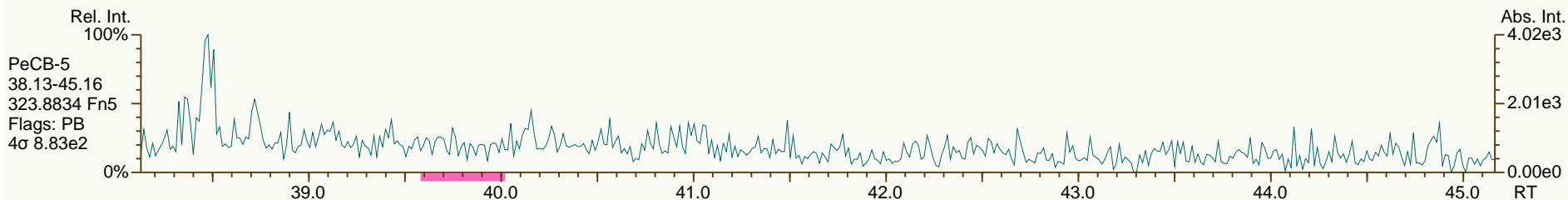
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Instr: AutoSpec-Premier MM7

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SGS-AP ID: SBS\_140328\_PCB\_XA  
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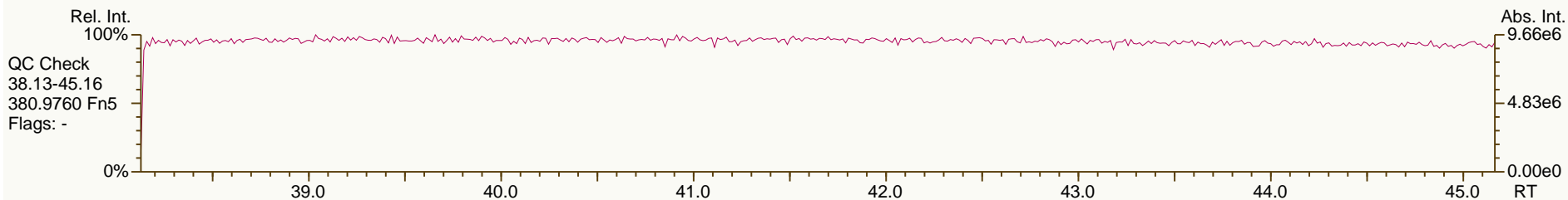
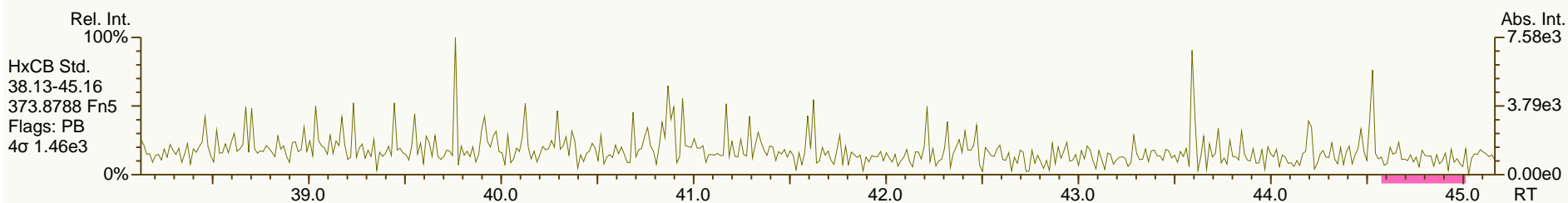
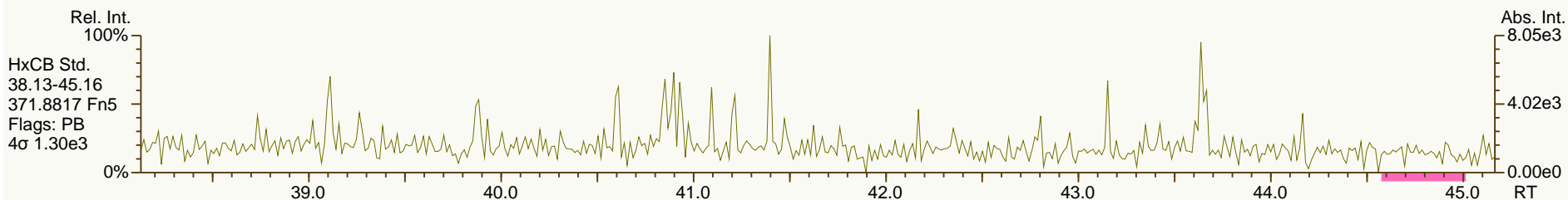
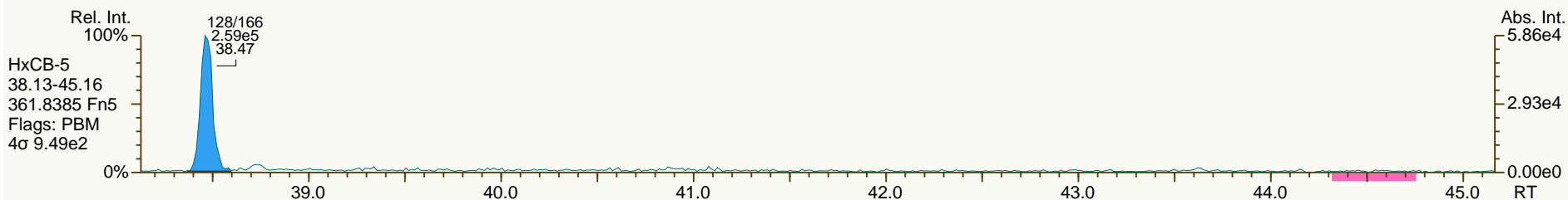
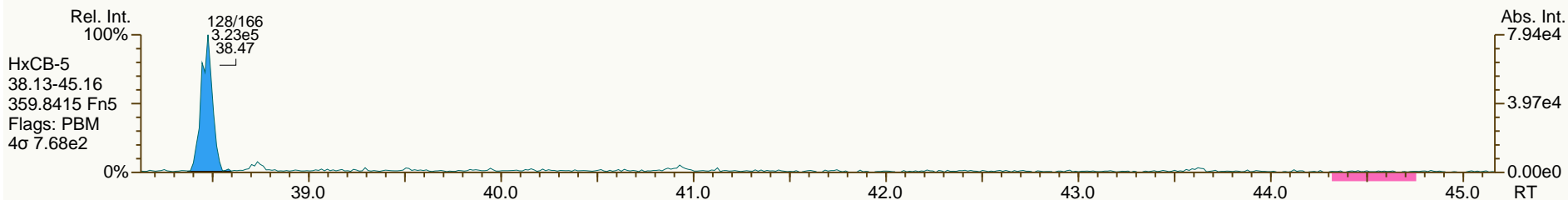
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SGS-AP ID: SBS\_140328\_PCB\_XA  
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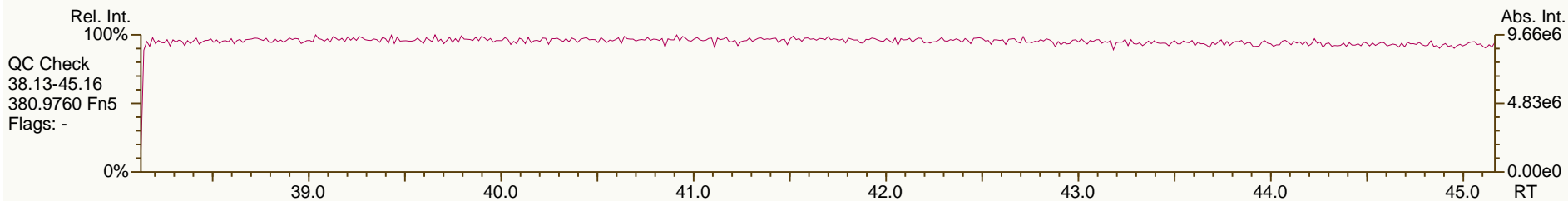
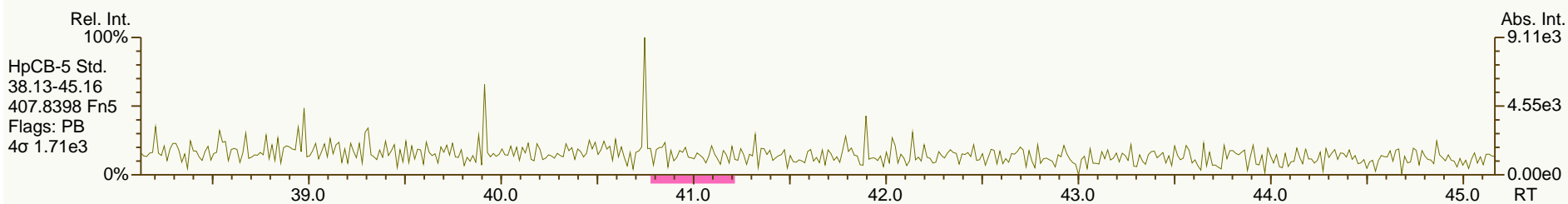
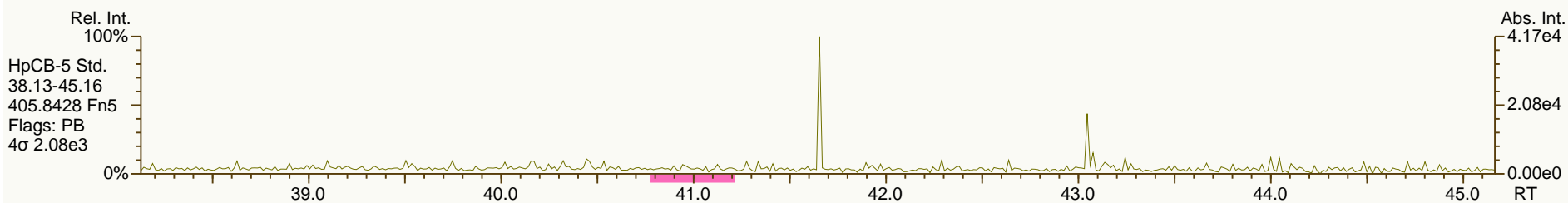
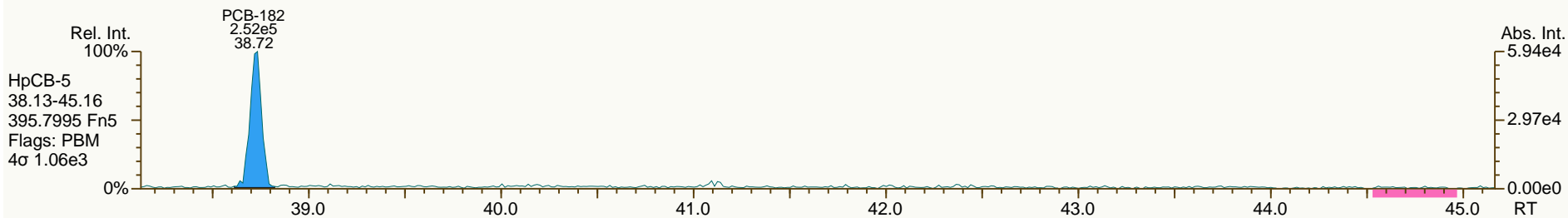
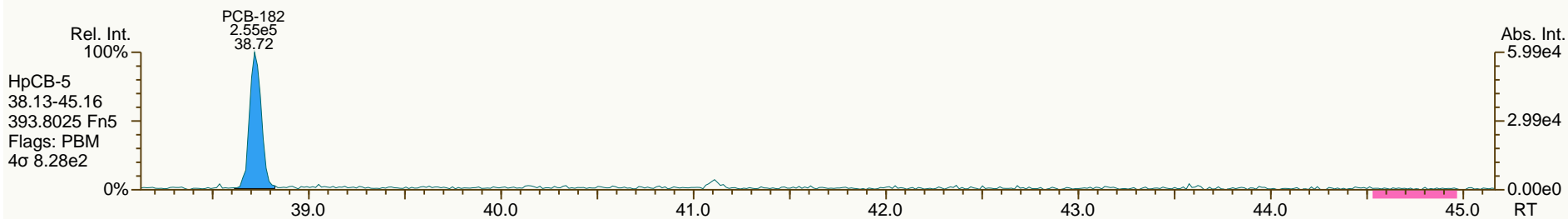
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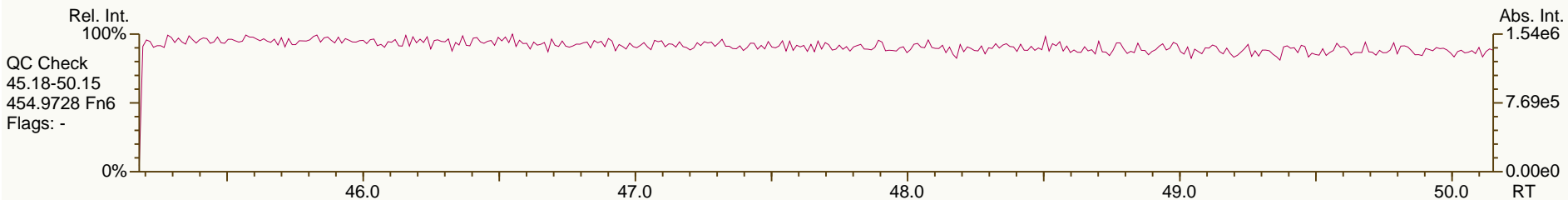
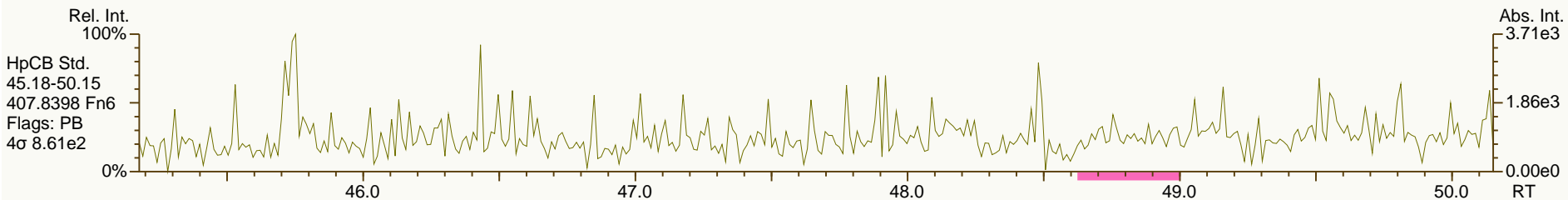
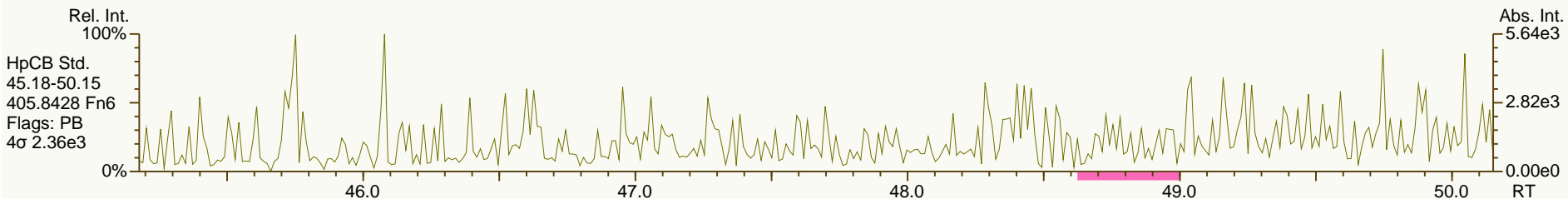
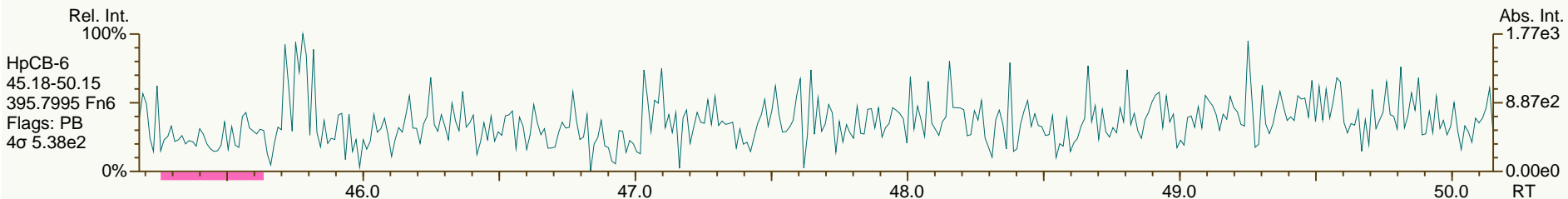
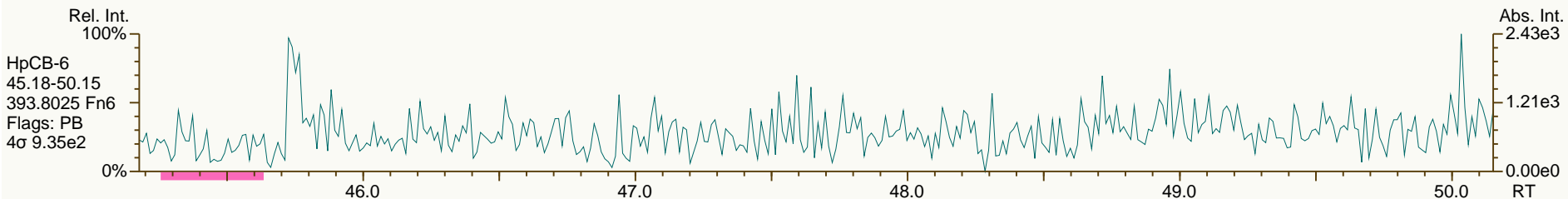
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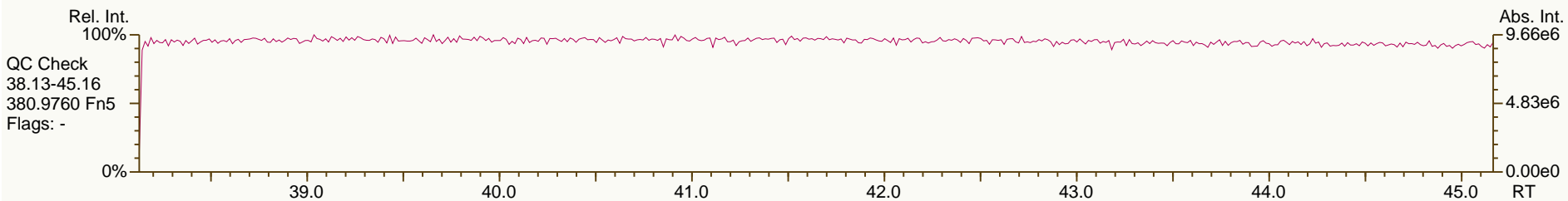
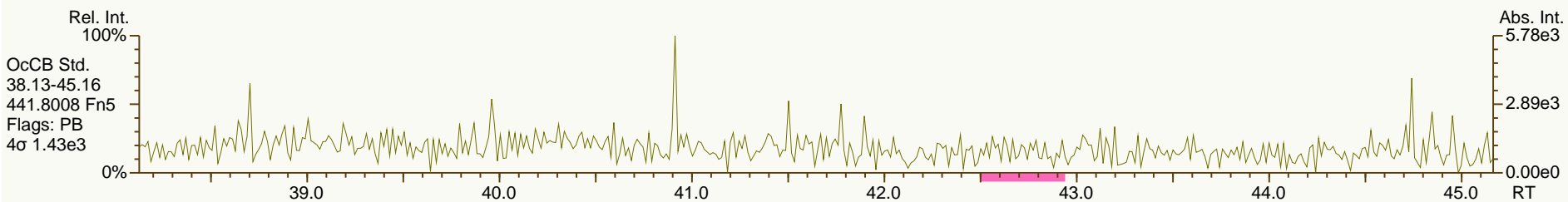
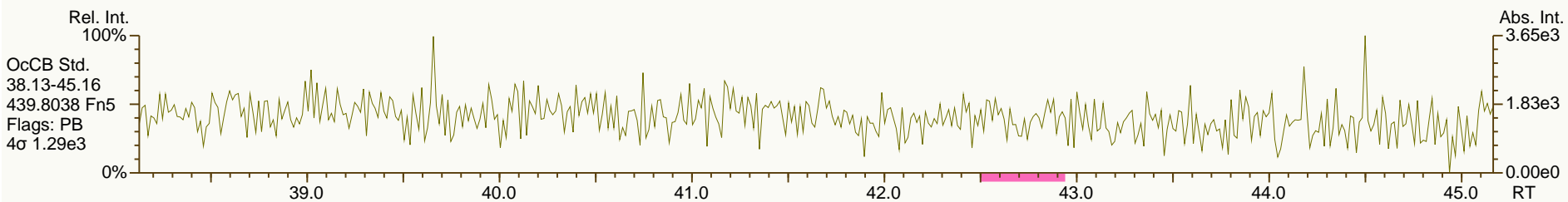
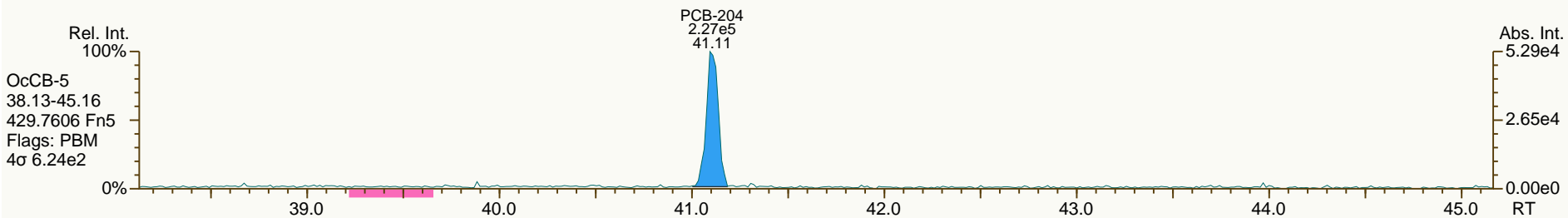
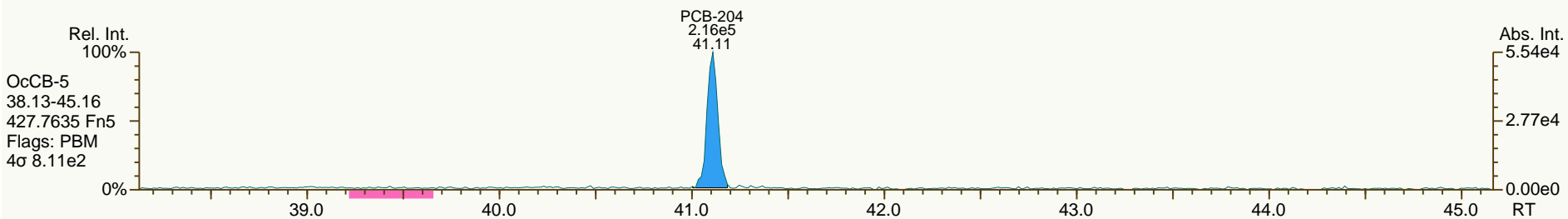
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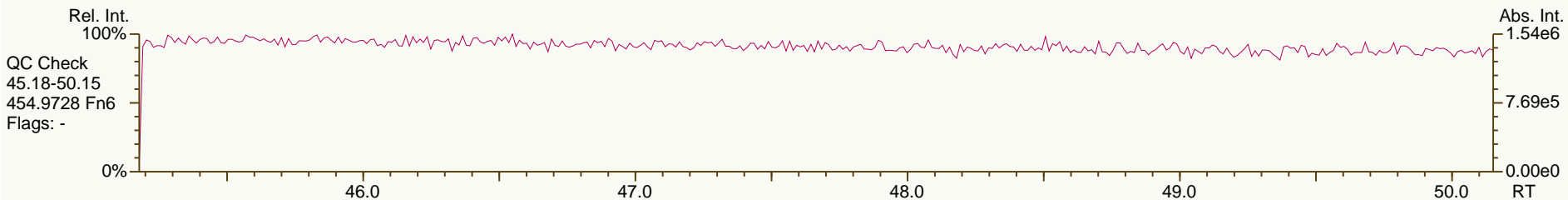
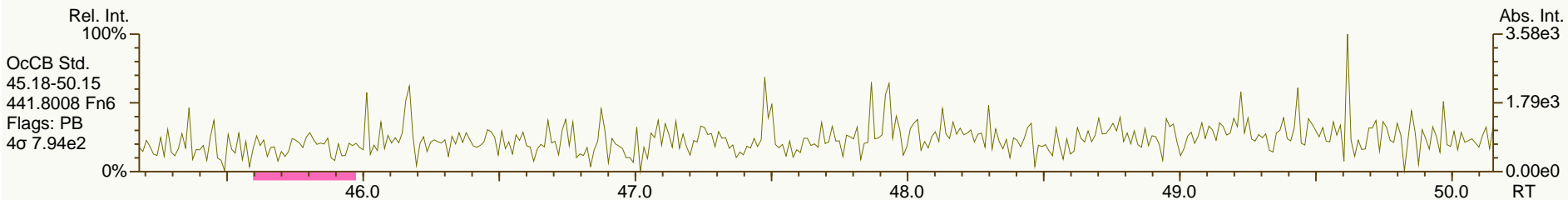
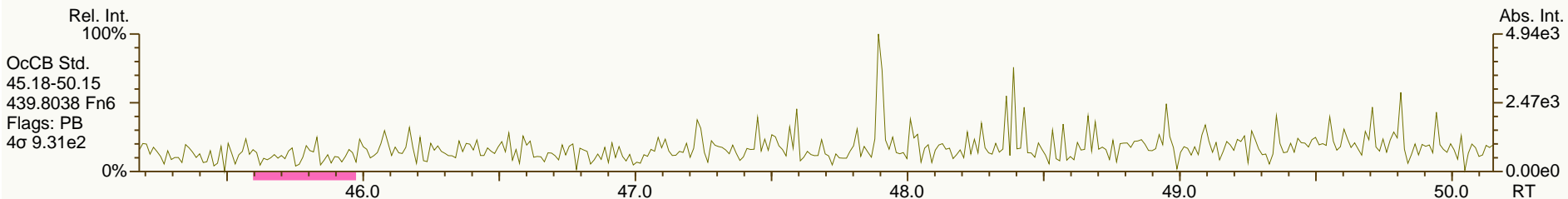
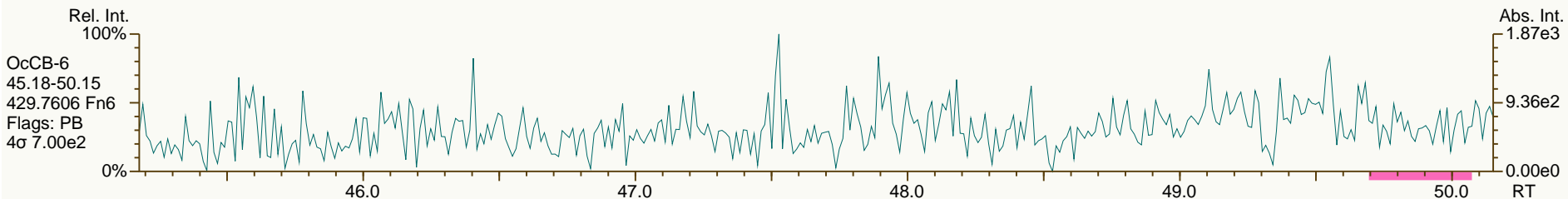
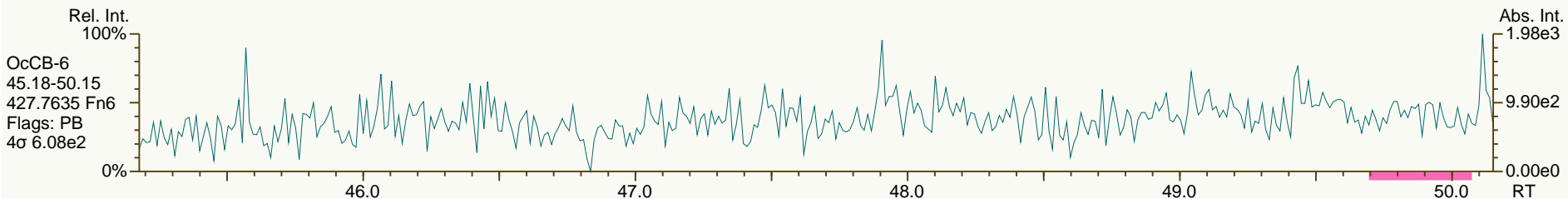




SGS-AP ID: SBS\_140328\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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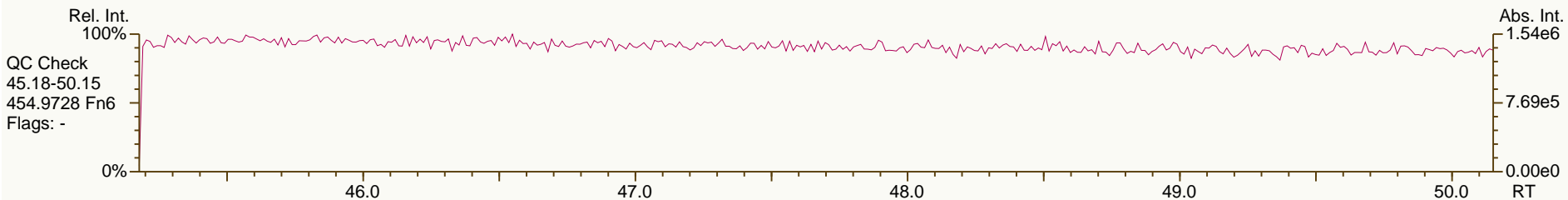
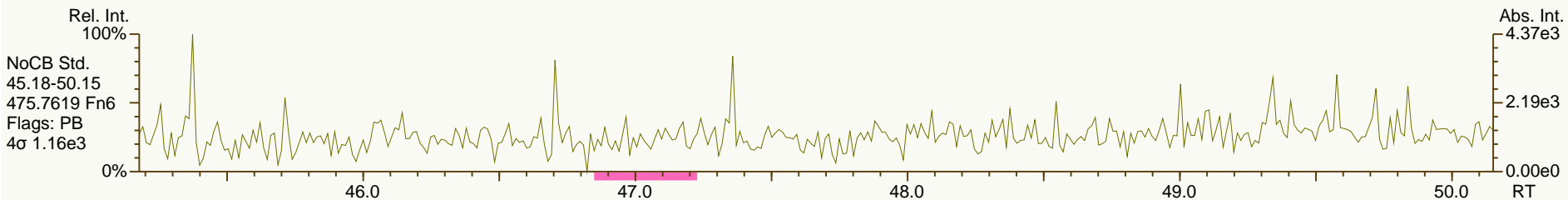
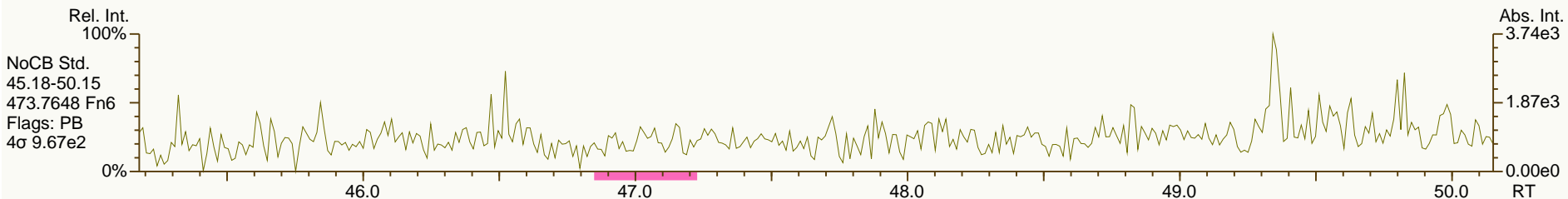
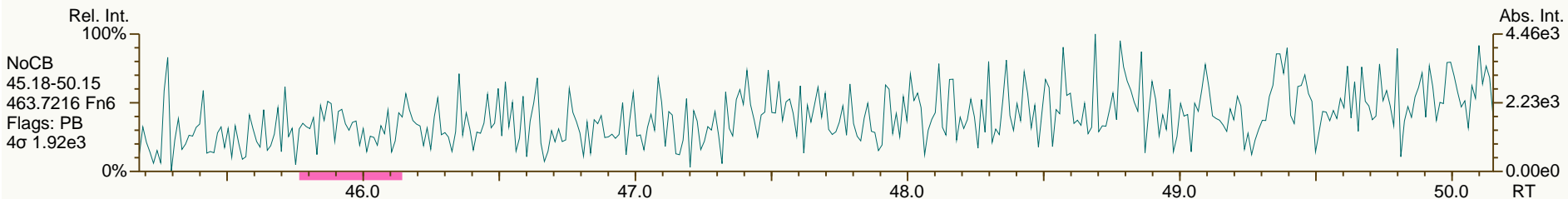
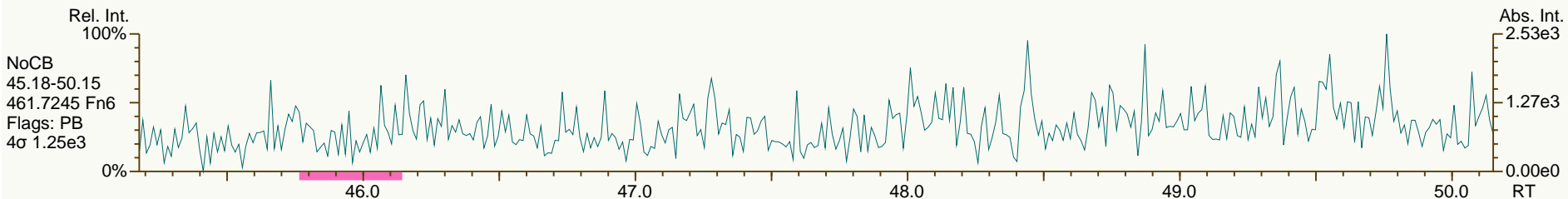
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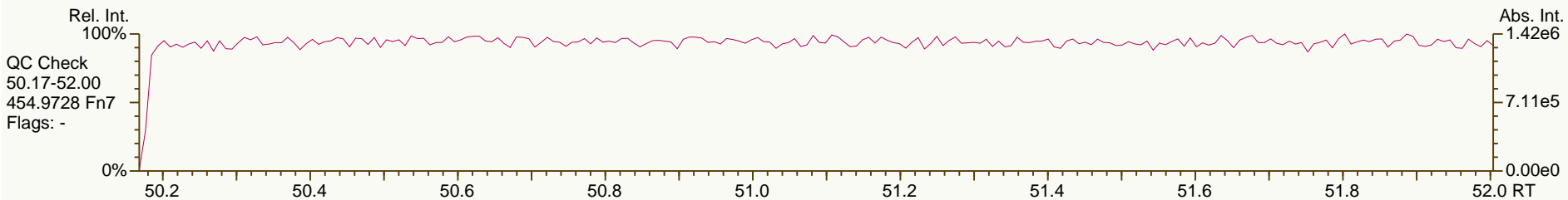
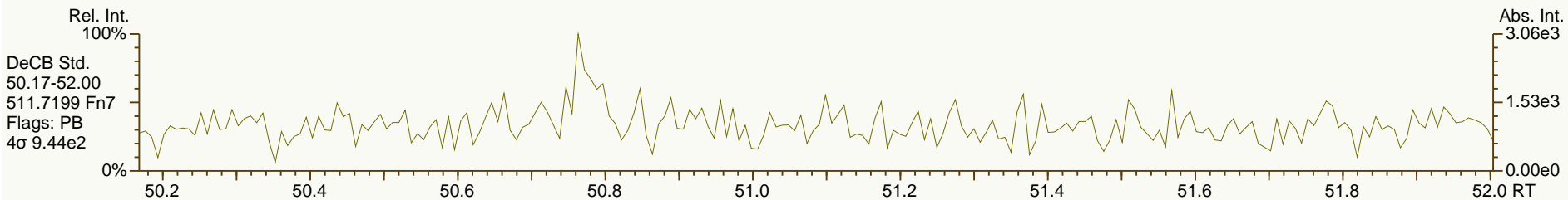
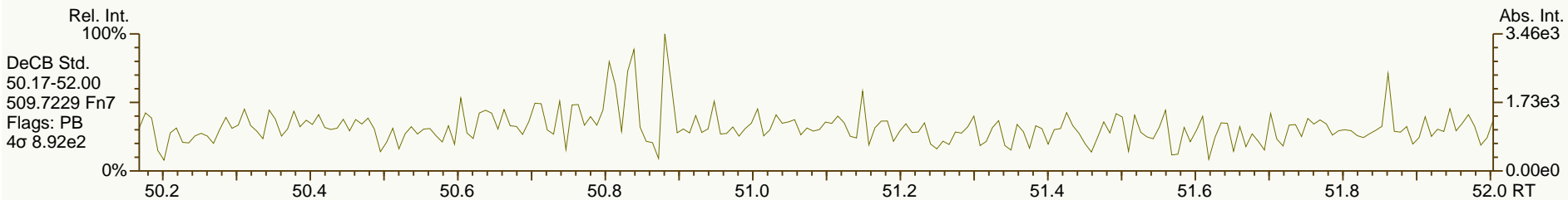
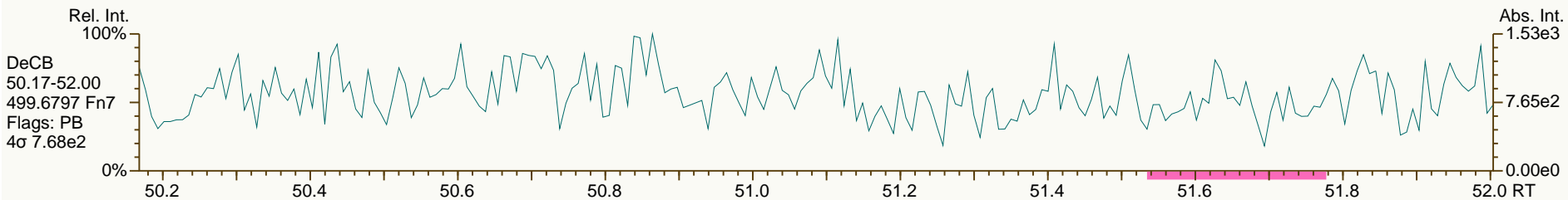
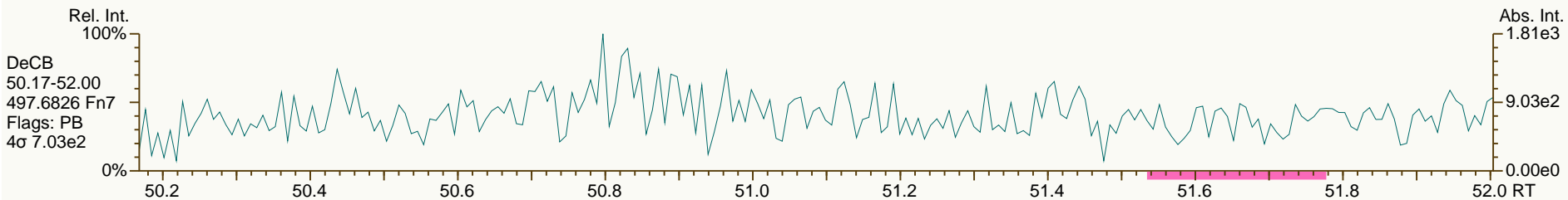
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 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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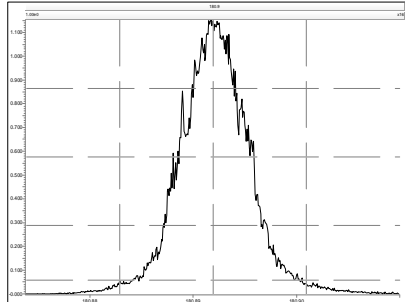


Resolution Check Report

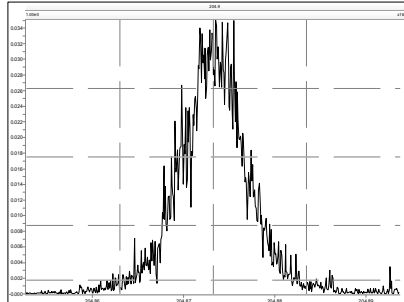
MassLynx 4.1 SCN 881

Printed: Wednesday, March 26, 2014 18:21:38 Eastern Daylight Time

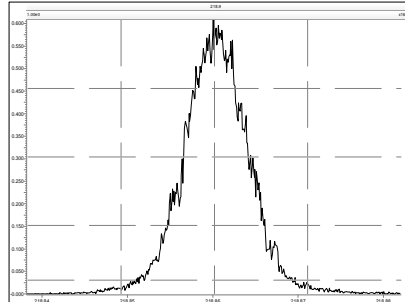
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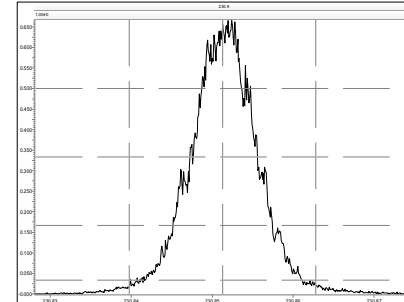
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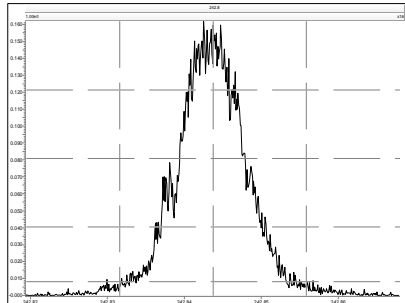
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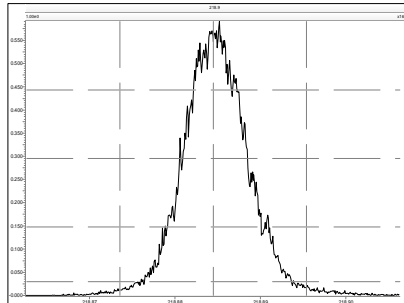
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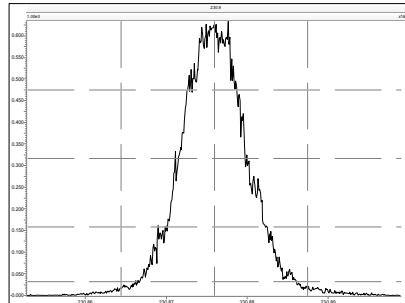
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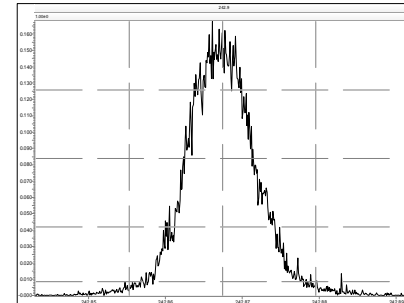
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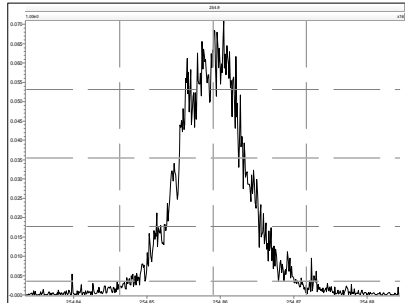
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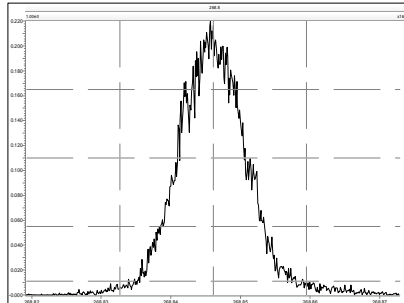
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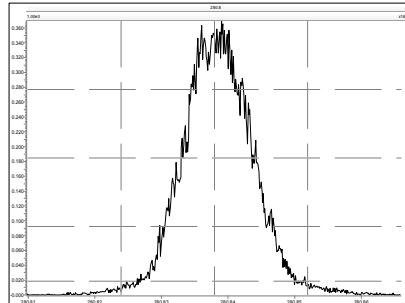
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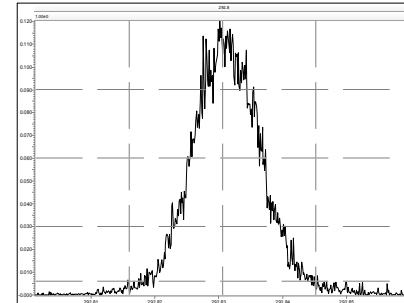
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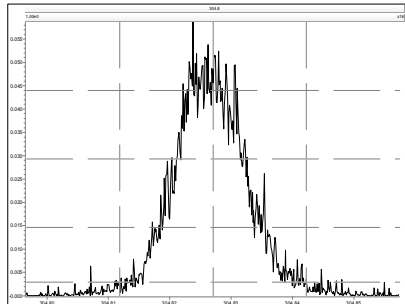


Resolution Check Report

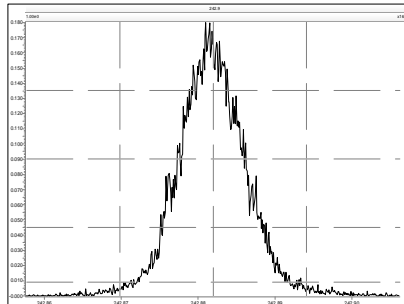
MassLynx 4.1 SCN 881

Printed: Wednesday, March 26, 2014 18:21:38 Eastern Daylight Time

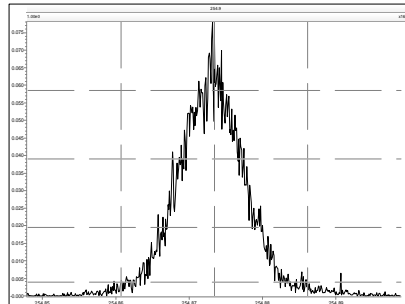
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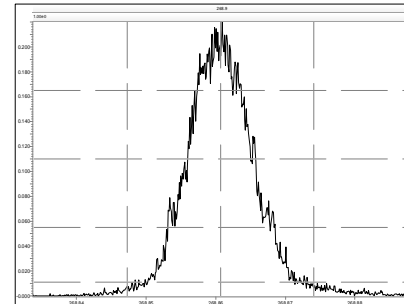
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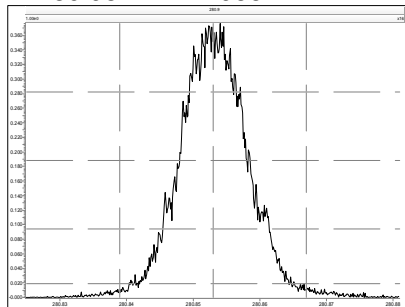
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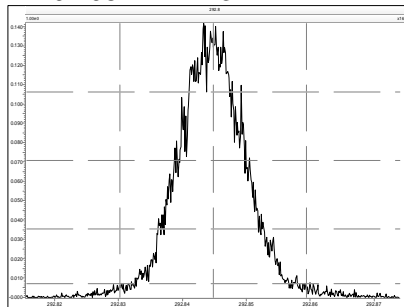
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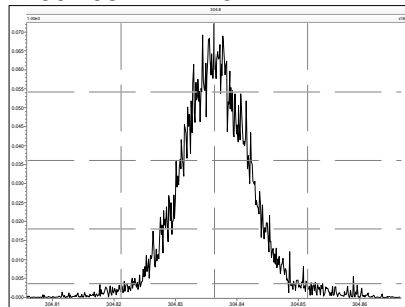
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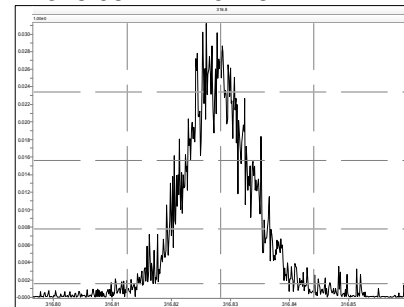
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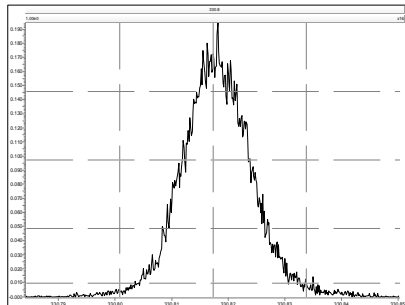
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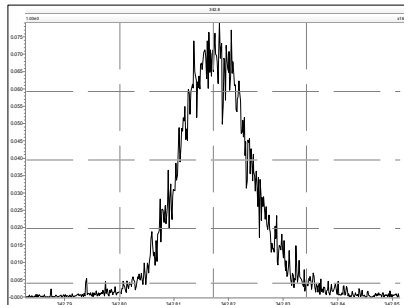
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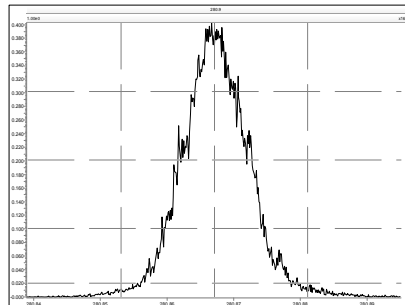
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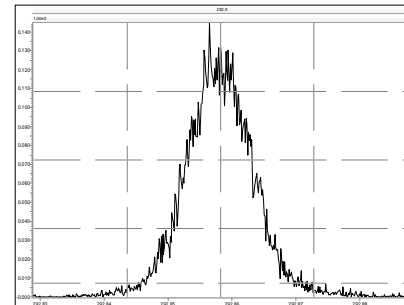
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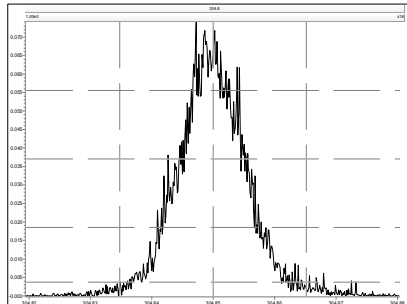
## Resolution Check Report

MassLynx 4.1 SCN 881

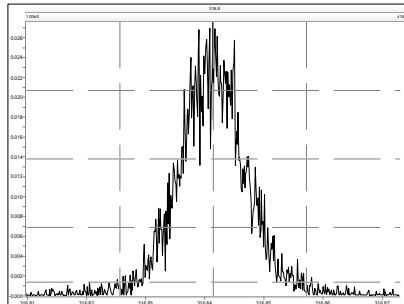
Page 3 of 5

Printed: Wednesday, March 26, 2014 18:21:38 Eastern Daylight Time

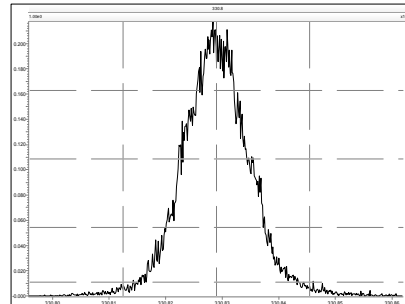
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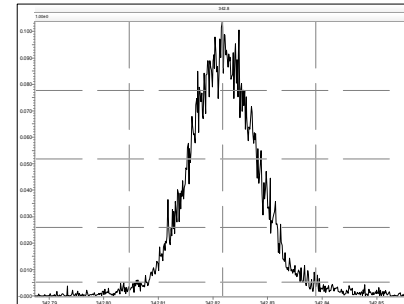
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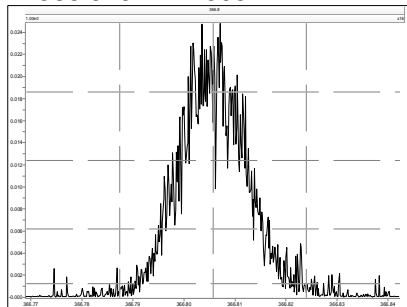
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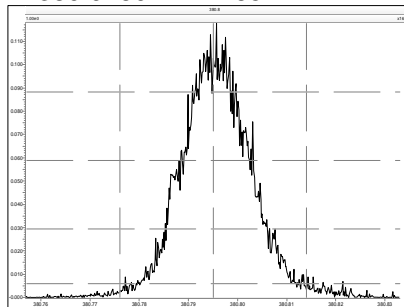
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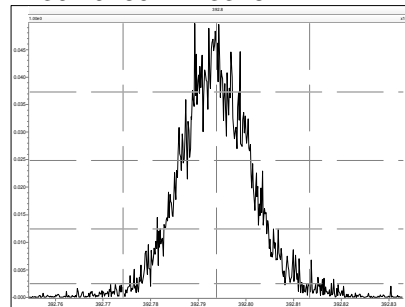
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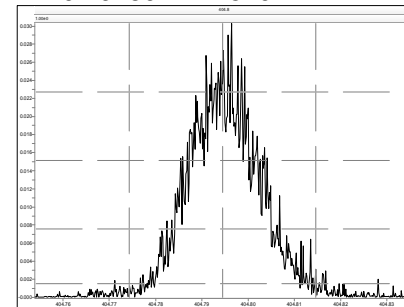
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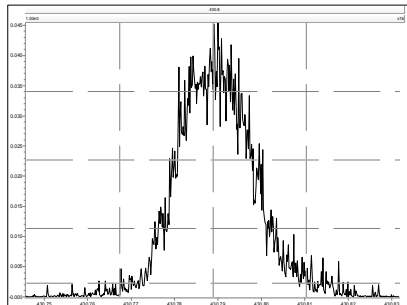
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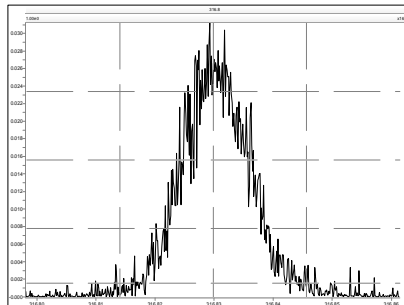
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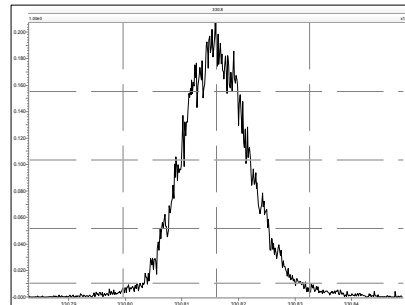
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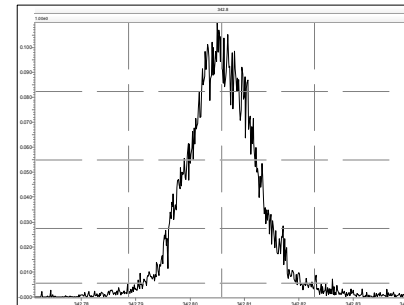
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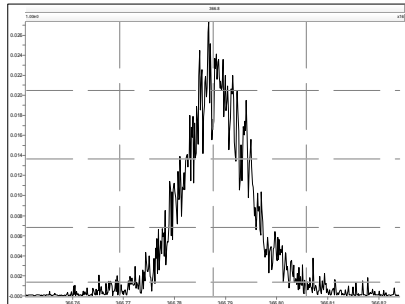
## Resolution Check Report

MassLynx 4.1 SCN 881

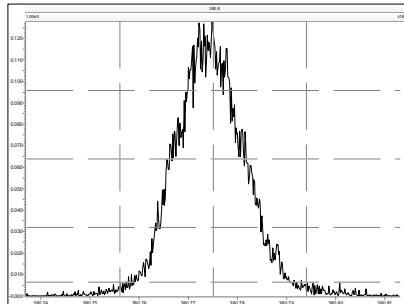
Page 4 of 5

Printed: Wednesday, March 26, 2014 18:21:38 Eastern Daylight Time

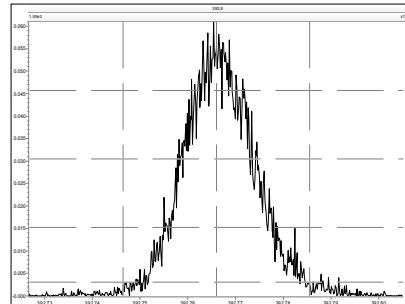
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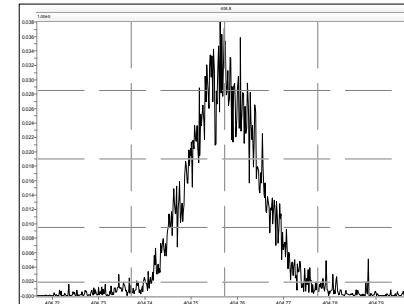
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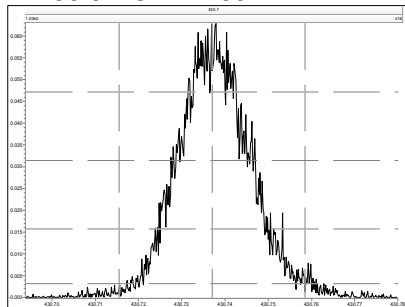
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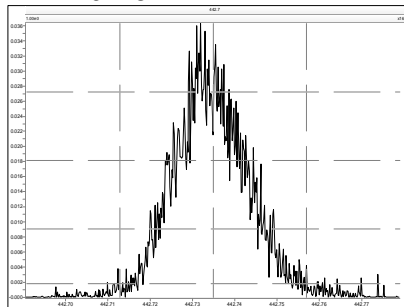
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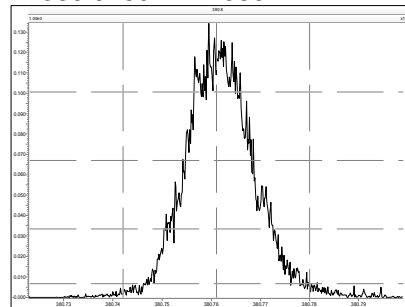
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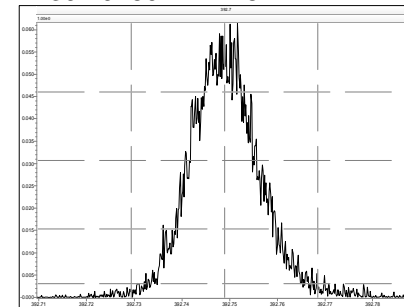
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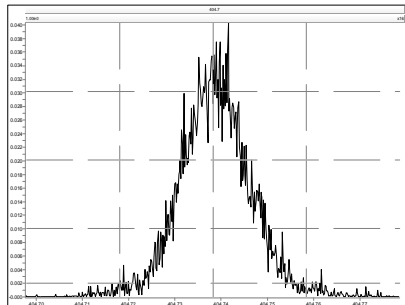
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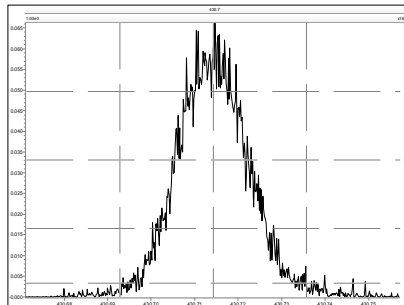
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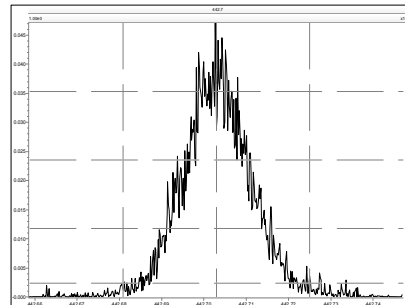
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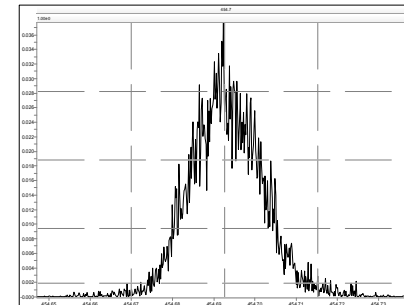
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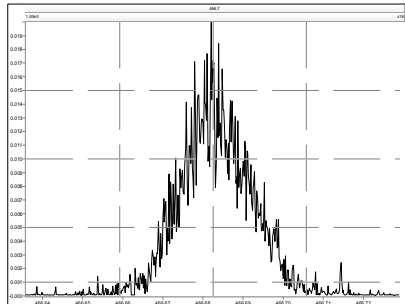


Resolution Check Report

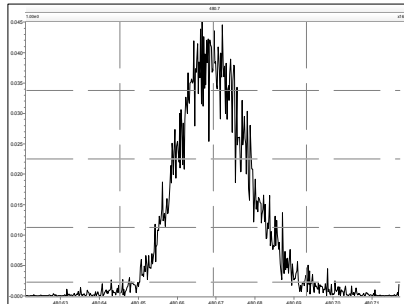
MassLynx 4.1 SCN 881

Printed: Wednesday, March 26, 2014 18:21:38 Eastern Daylight Time

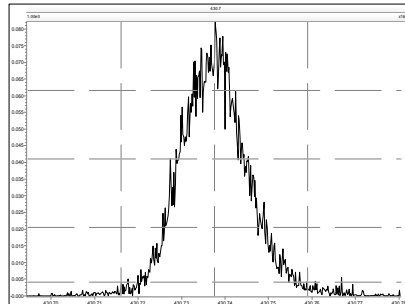
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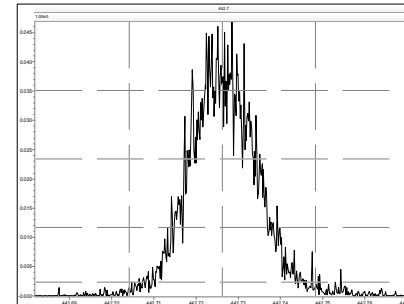
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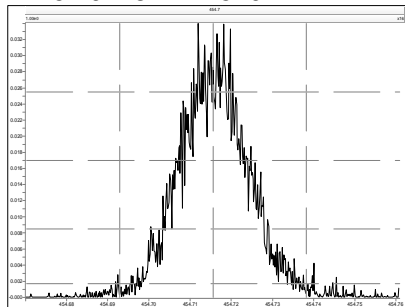
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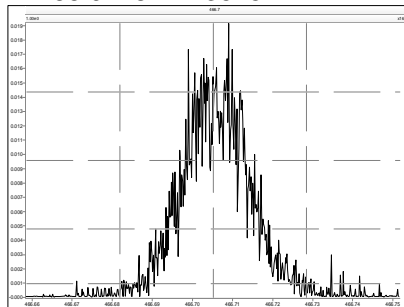
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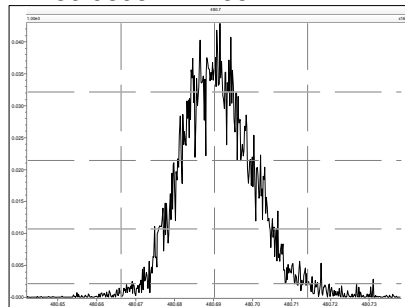
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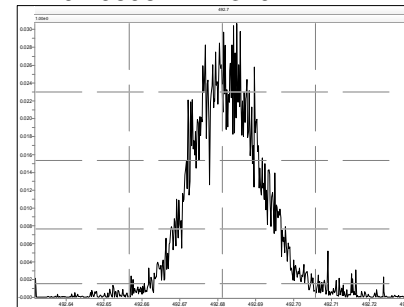
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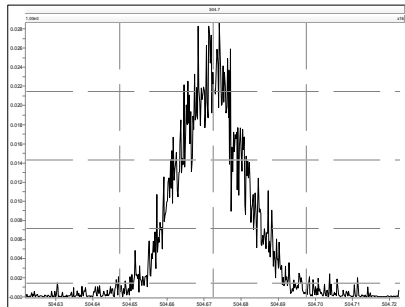
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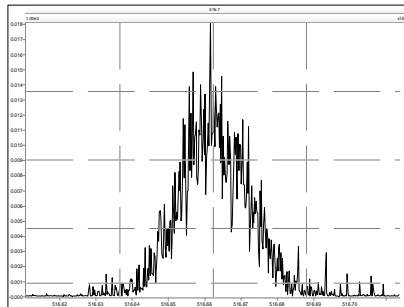
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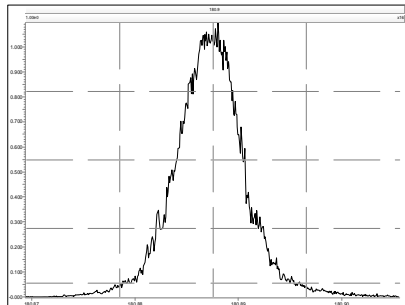


Resolution Check Report

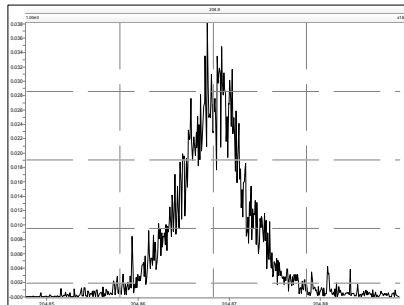
MassLynx 4.1 SCN 881

Printed: Thursday, March 27, 2014 06:31:08 Eastern Daylight Time

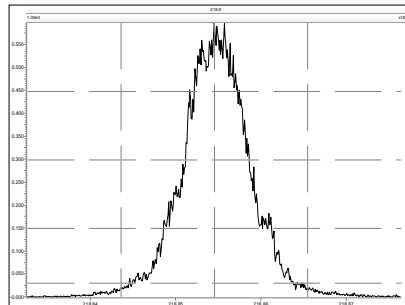
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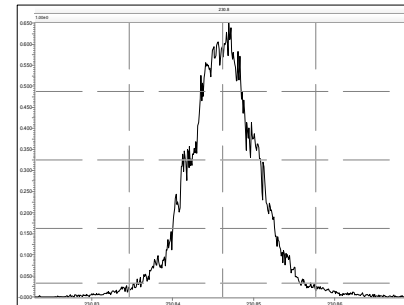
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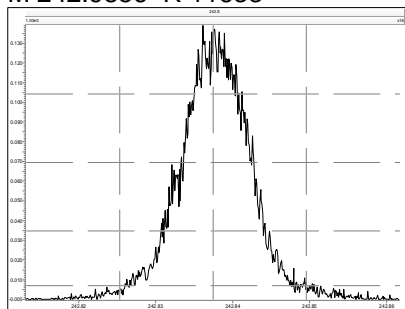
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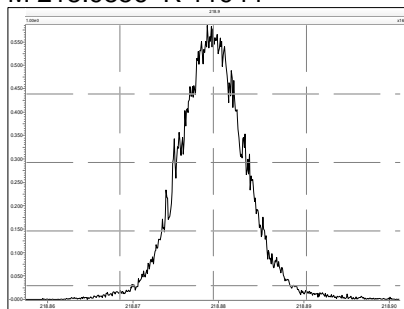
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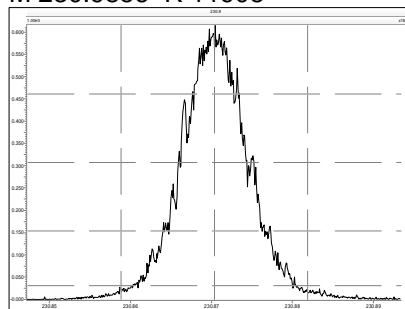
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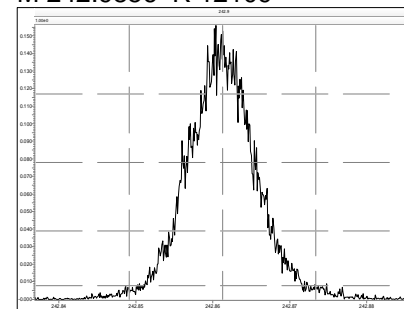
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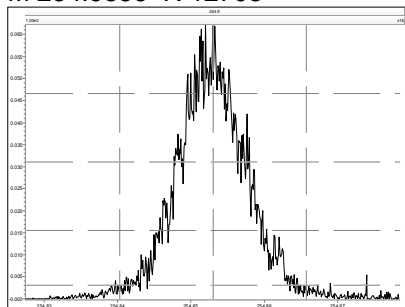
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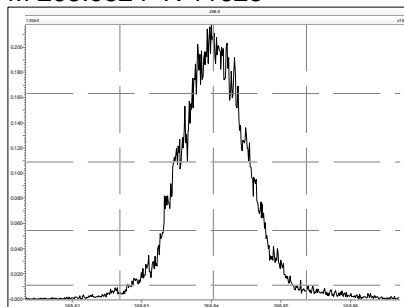
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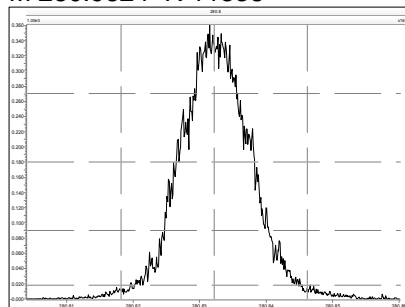
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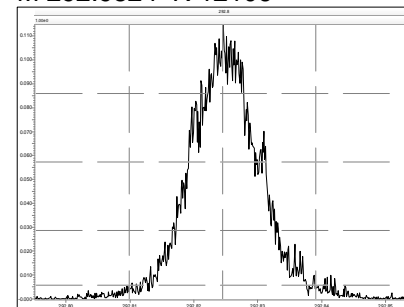
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M 280.9824 R 11338



M 292.9824 R 12106

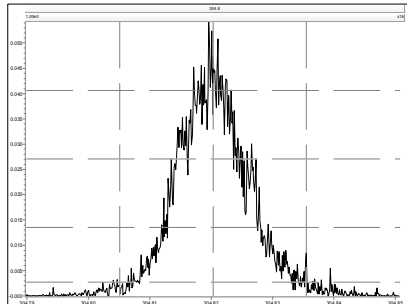


Resolution Check Report

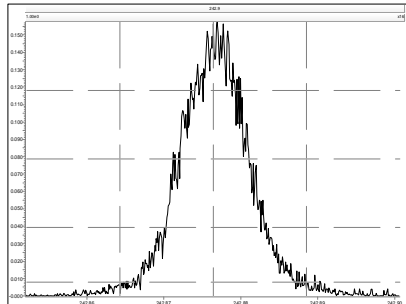
MassLynx 4.1 SCN 881

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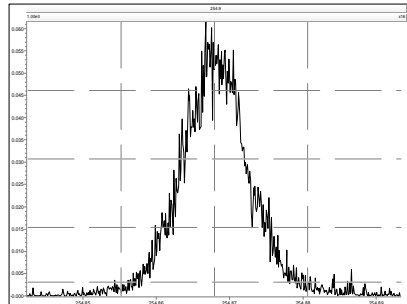
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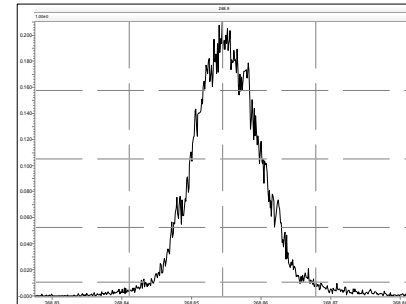
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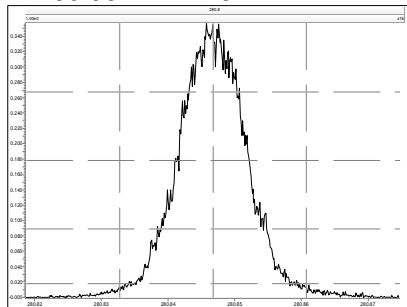
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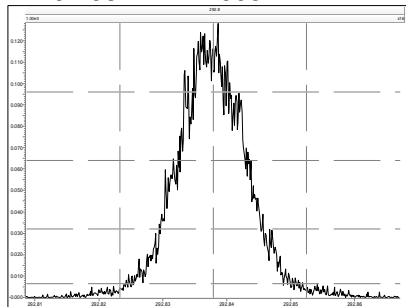
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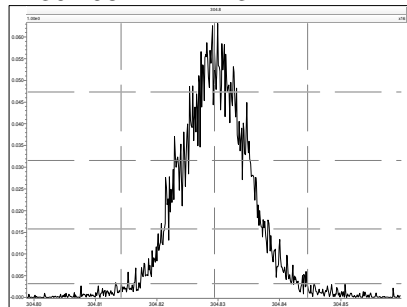
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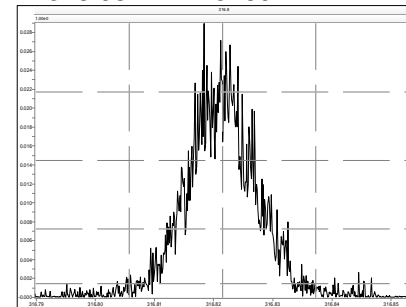
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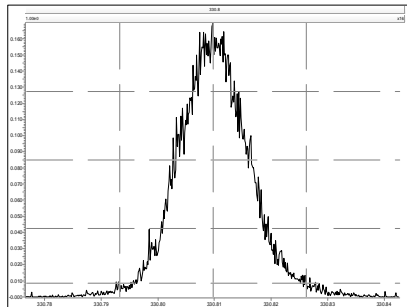
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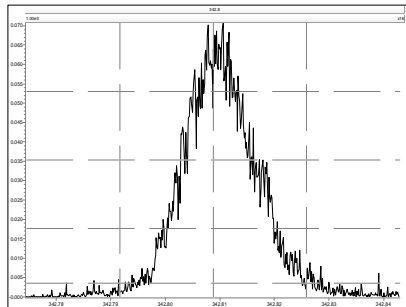
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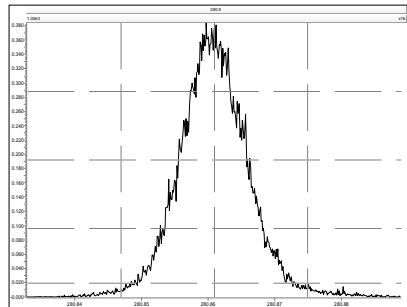
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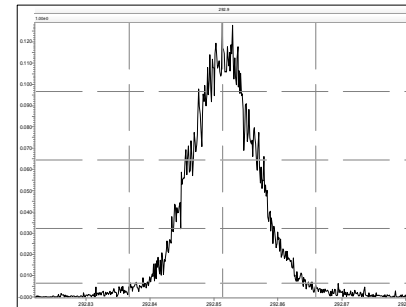
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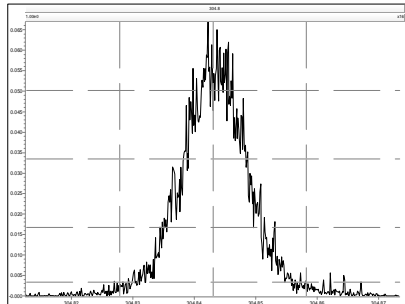
## Resolution Check Report

MassLynx 4.1 SCN 881

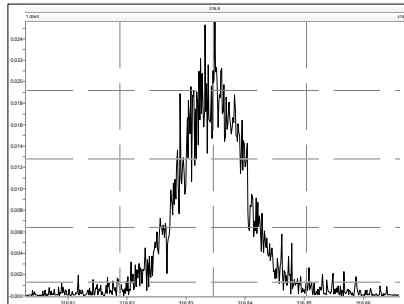
Page 3 of 5

Printed: Thursday, March 27, 2014 06:31:08 Eastern Daylight Time

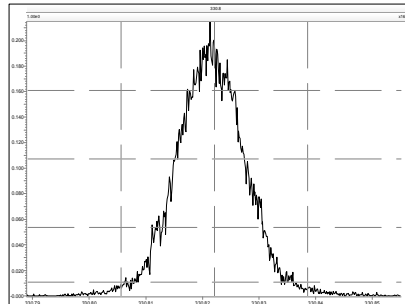
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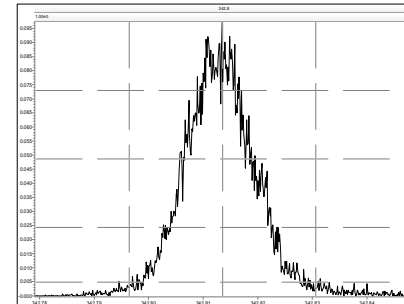
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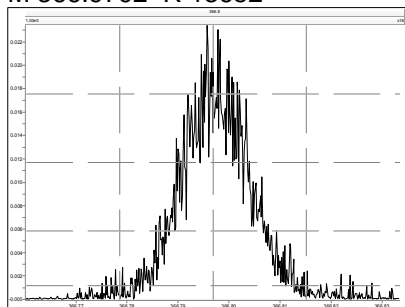
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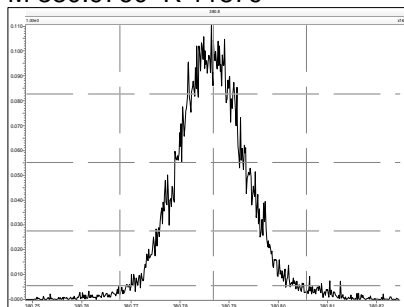
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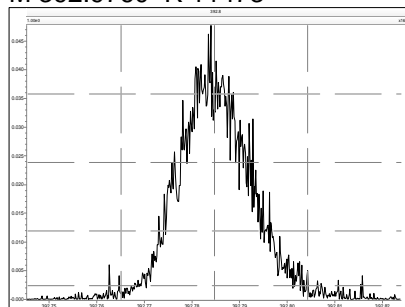
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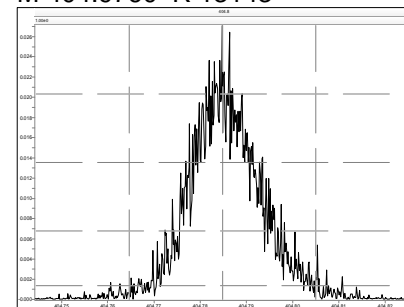
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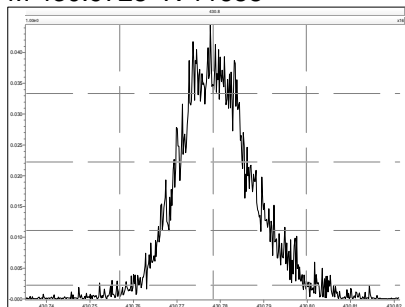
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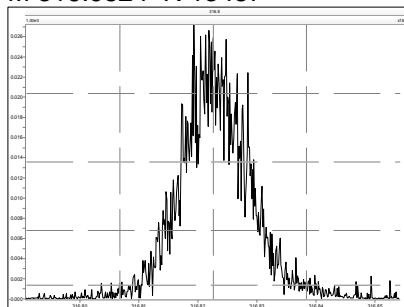
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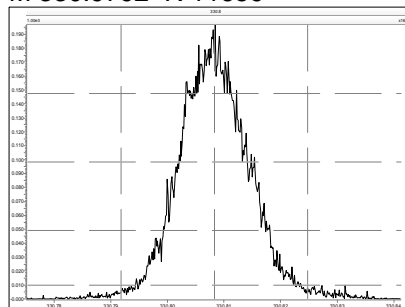
M 430.9728 R 11688



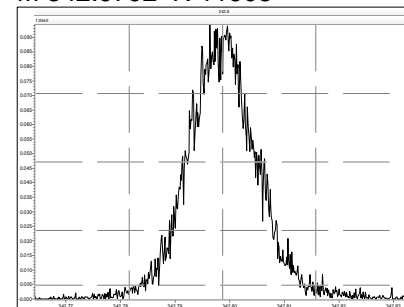
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M 330.9792 R 11659



M 342.9792 R 11908



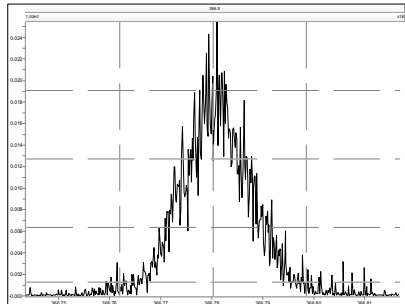
## Resolution Check Report

MassLynx 4.1 SCN 881

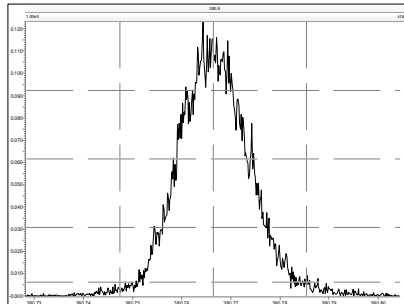
Page 4 of 5

Printed: Thursday, March 27, 2014 06:31:08 Eastern Daylight Time

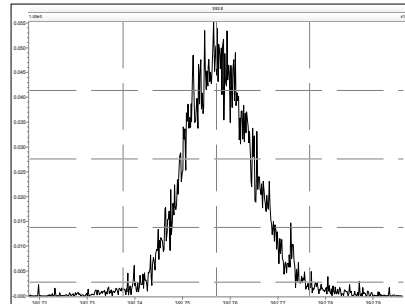
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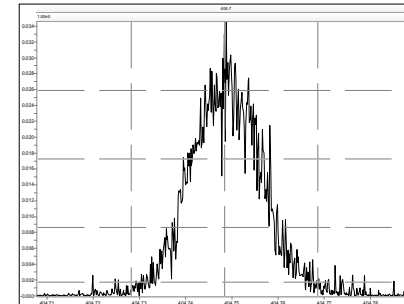
M 380.9760 R 12595



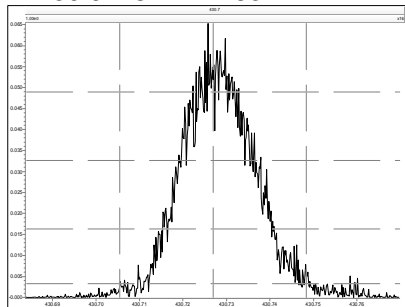
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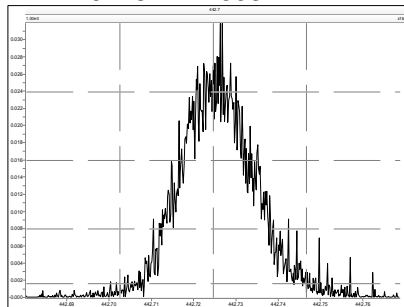
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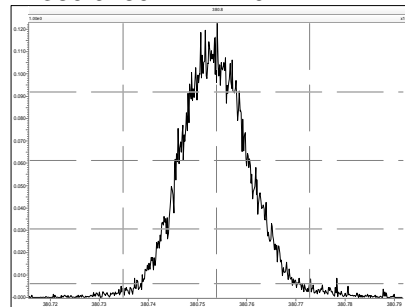
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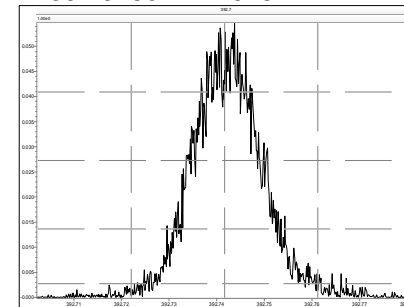
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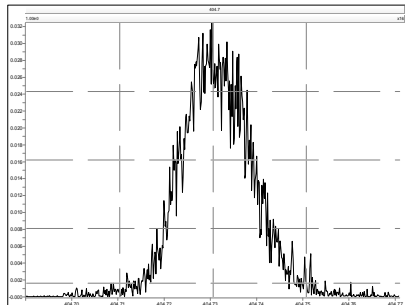
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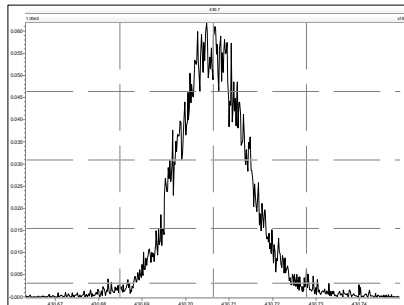
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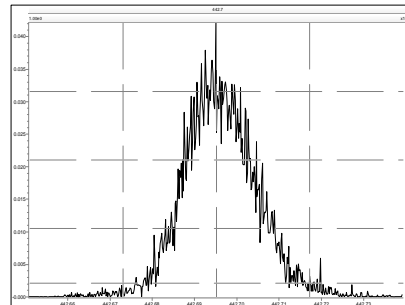
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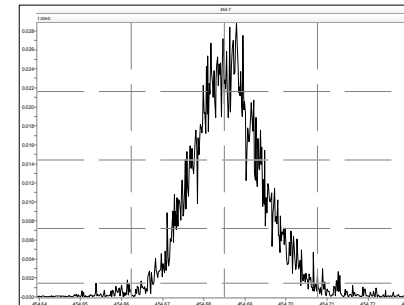
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M 442.9728 R 12898



M 454.9728 R 12362

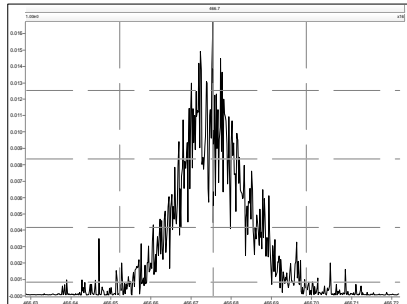


Resolution Check Report

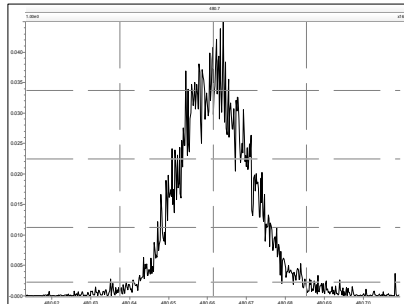
MassLynx 4.1 SCN 881

Printed: Thursday, March 27, 2014 06:31:08 Eastern Daylight Time

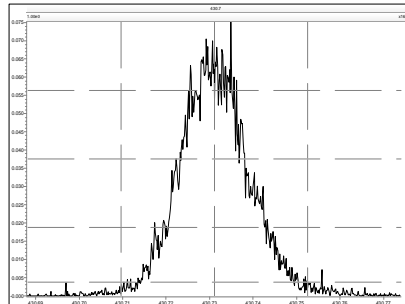
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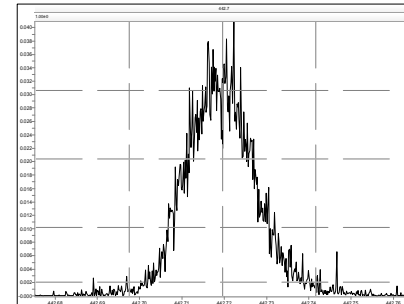
M 480.9696 R 12059



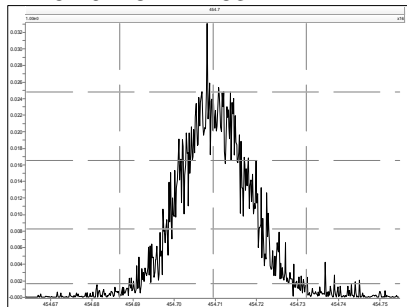
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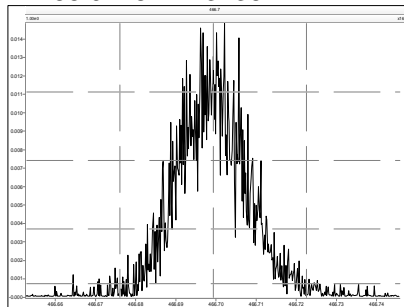
M 442.9728 R 12961



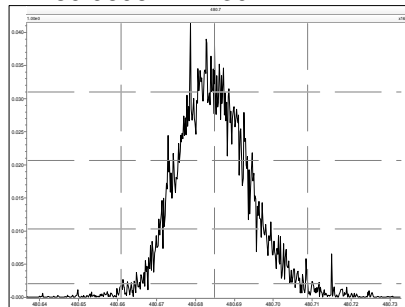
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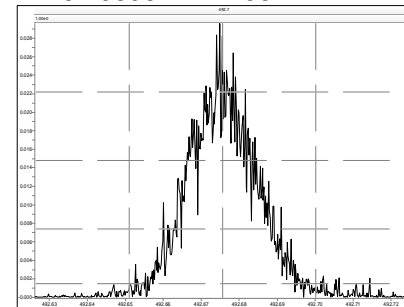
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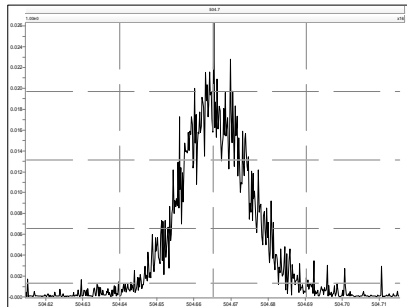
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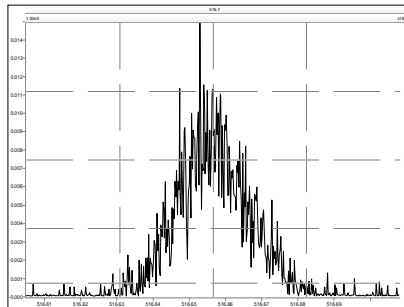
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M 504.9696 R 12241



M 516.9697 R 13961



## Experiment Calibration Report

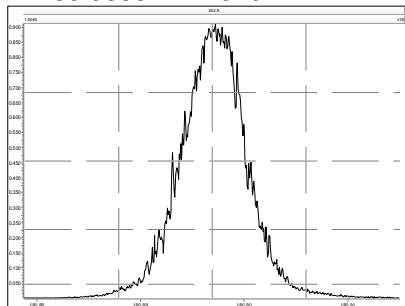
## MassLynx 4.1 SCN 881

Page 1 of 1

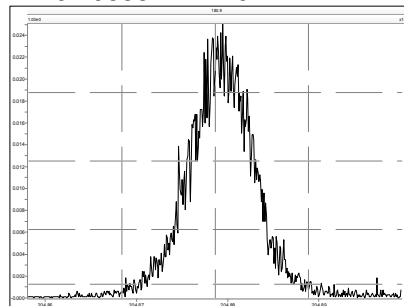
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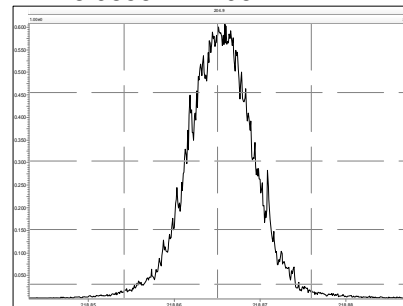
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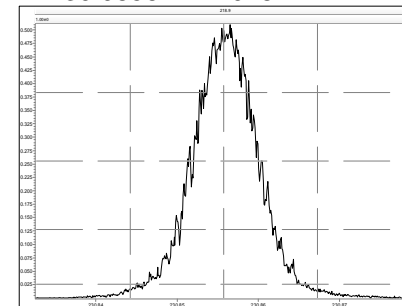
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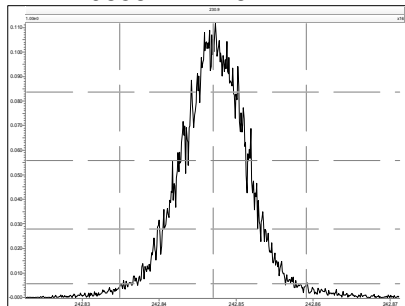
M 218.9856 R 11964



M 230.9856 R 12018



M 242.9856 R 11261



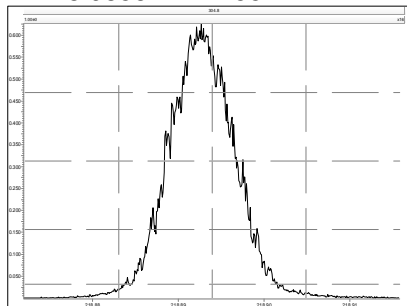
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

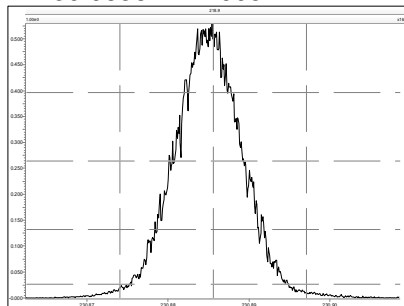
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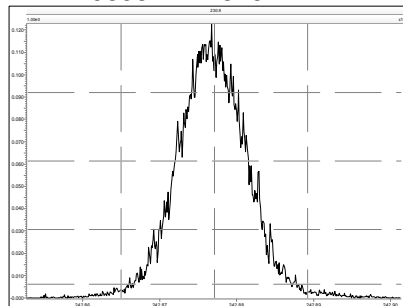
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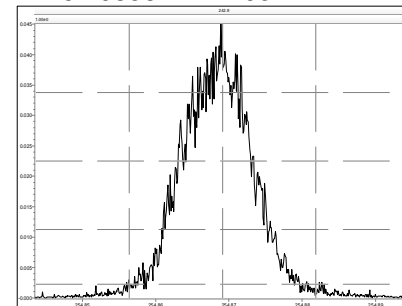
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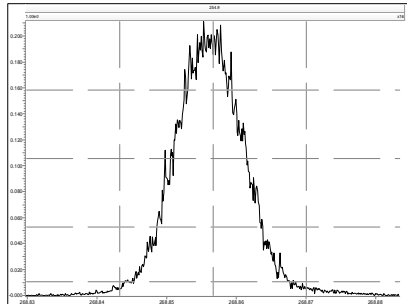
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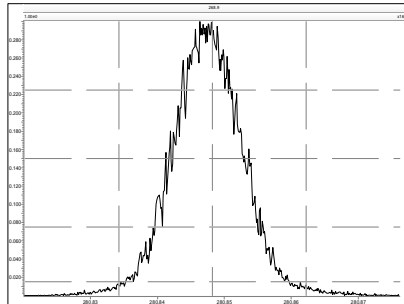
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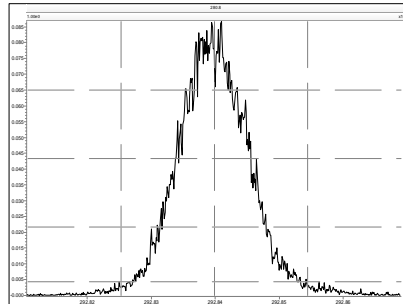
M 268.9824 R 11961



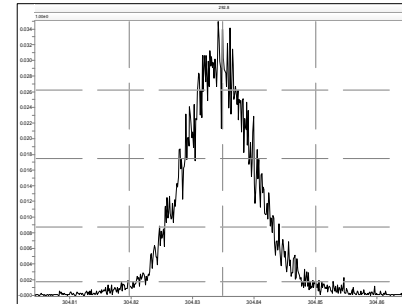
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M 292.9824 R 11112



M 304.9824 R 12017



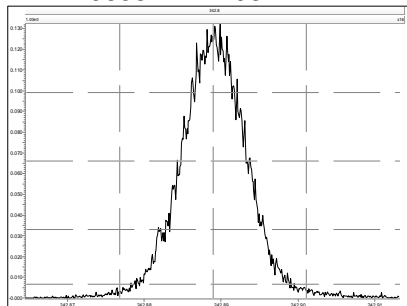
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

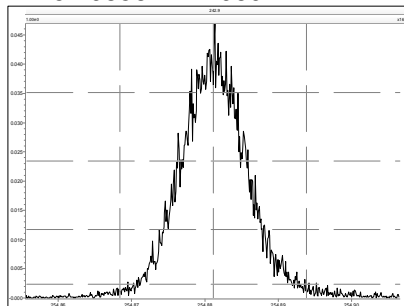
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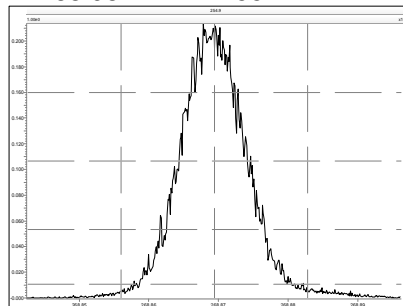
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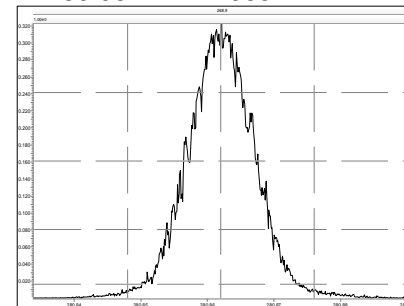
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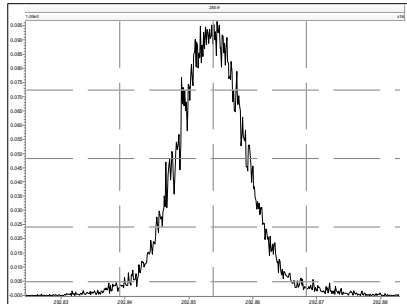
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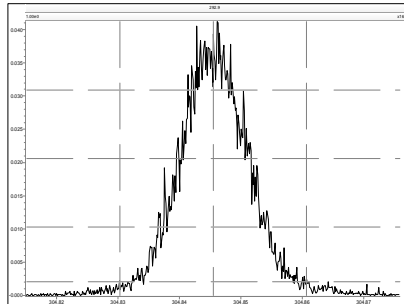
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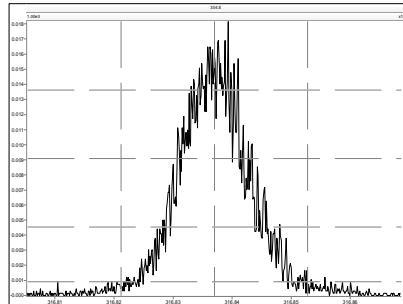
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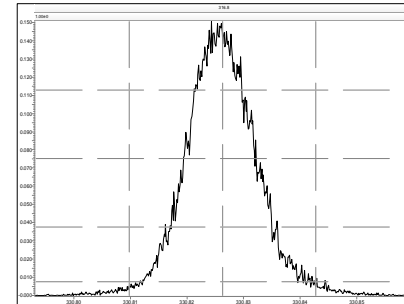
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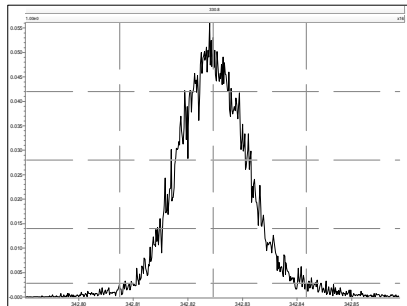
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M 330.9792 R 11682



M 342.9792 R 11419





## Experiment Calibration Report

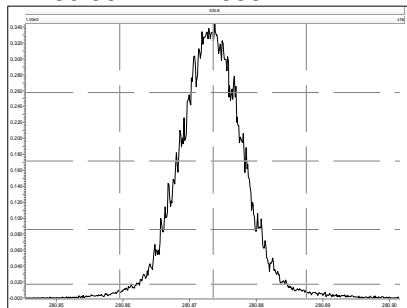
MassLynx 4.1 SCN 881

Page 1 of 1

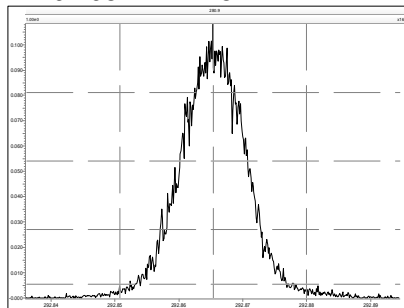
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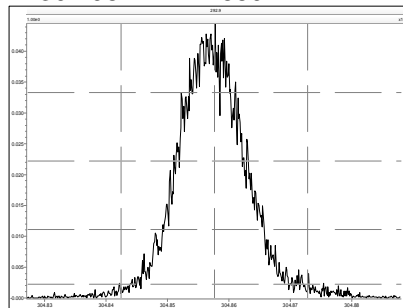
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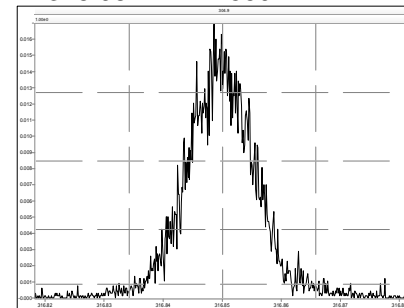
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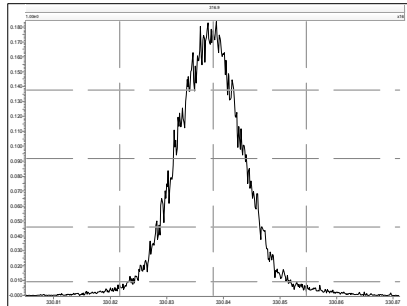
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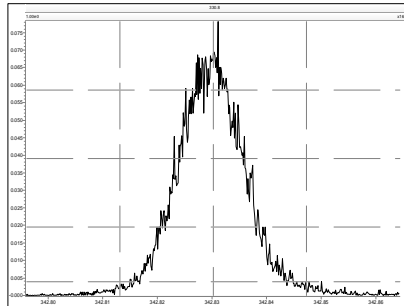
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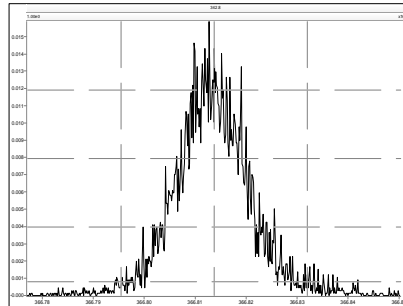
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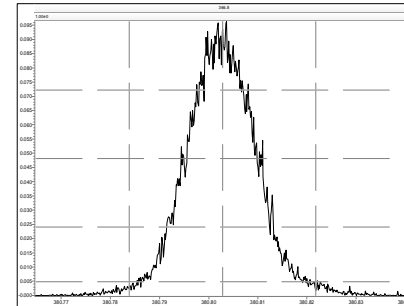
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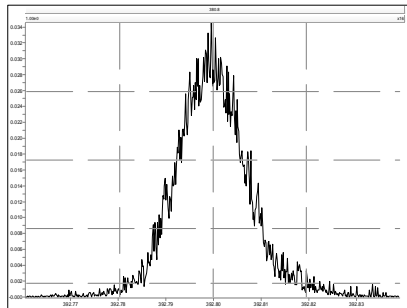
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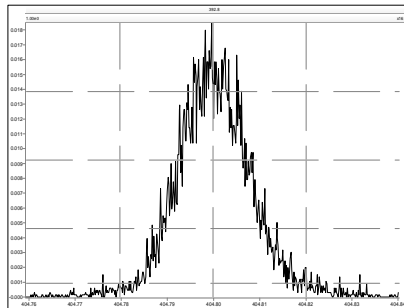
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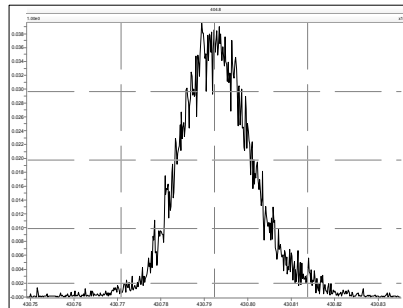
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M 404.9760 R 12437



M 430.9728 R 12074



## Experiment Calibration Report

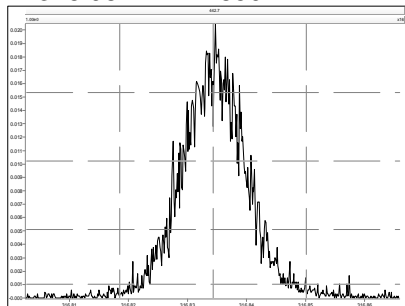
## MassLynx 4.1 SCN 881

Page 1 of 1

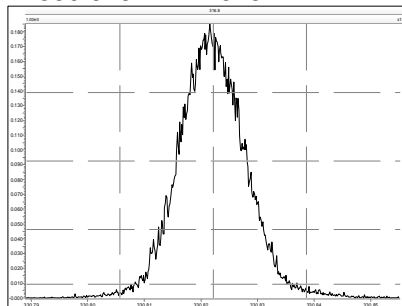
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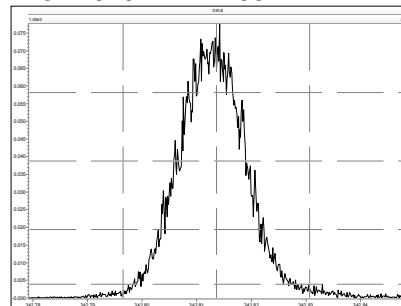
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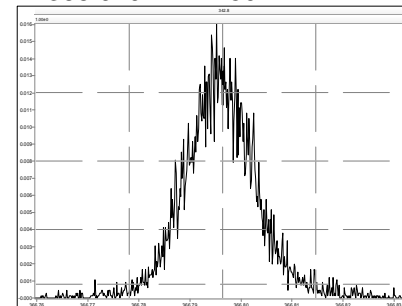
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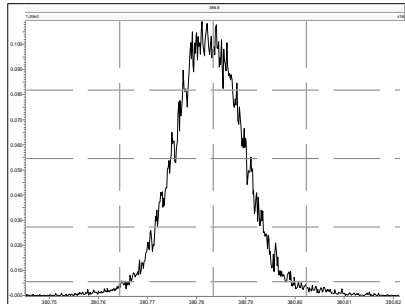
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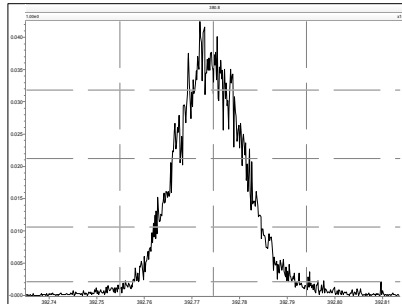
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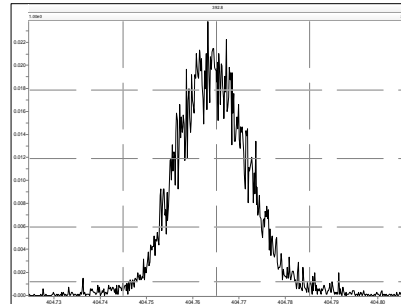
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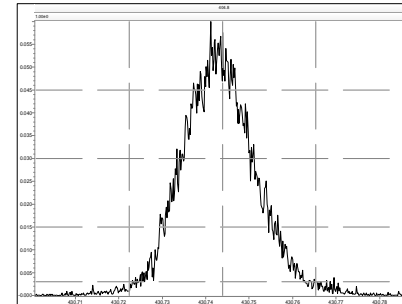
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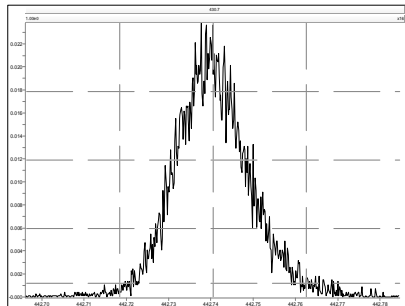
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M 430.9728 R 11260



M 442.9728 R 11518



## Experiment Calibration Report

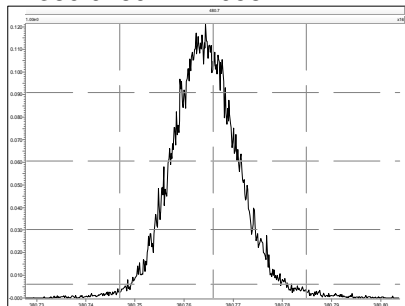
MassLynx 4.1 SCN 881

Page 1 of 1

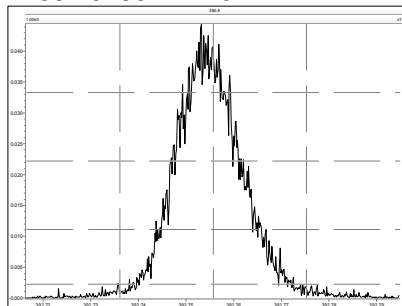
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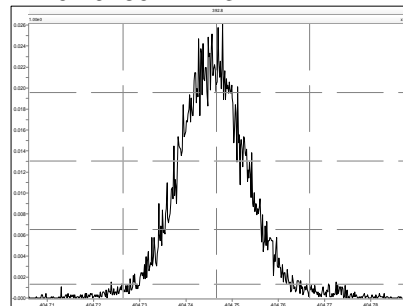
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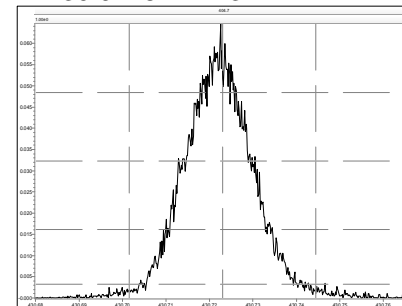
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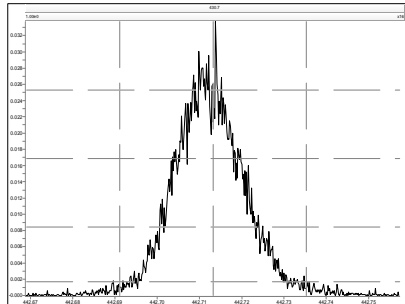
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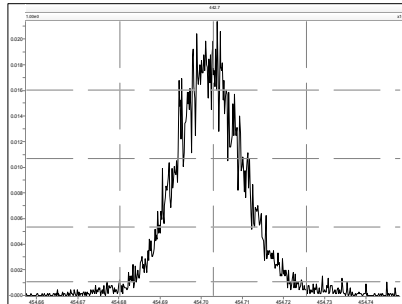
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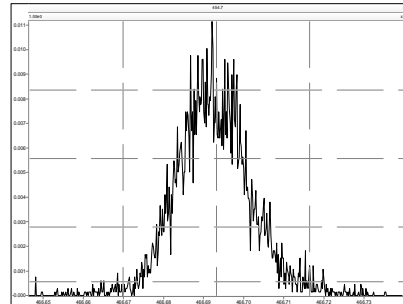
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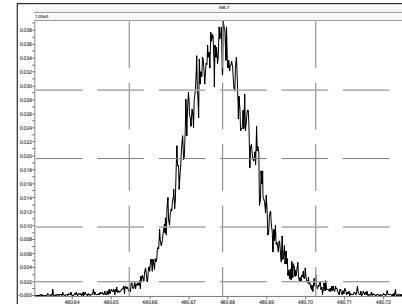
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M 466.9728 R 13809



M 480.9696 R 11013



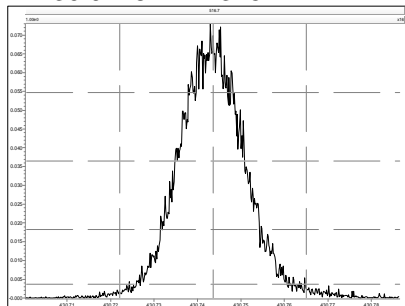
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

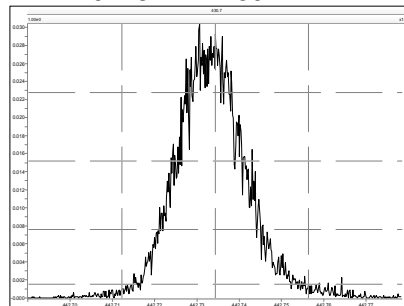
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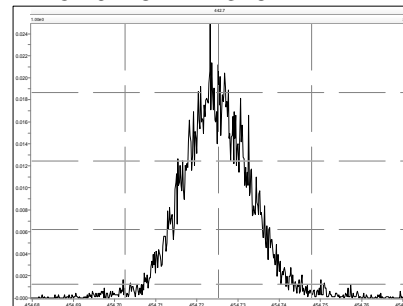
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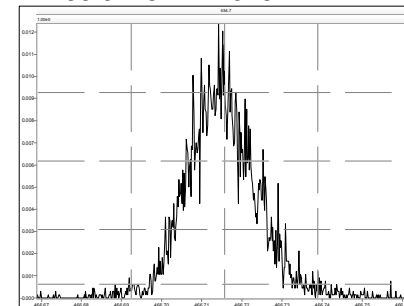
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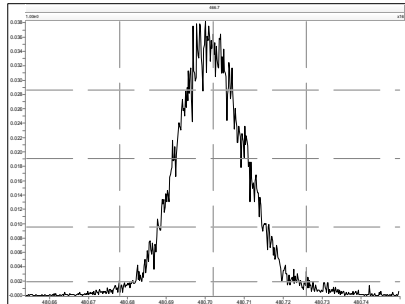
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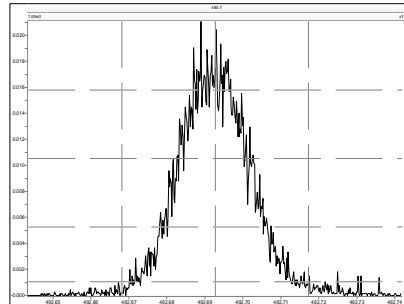
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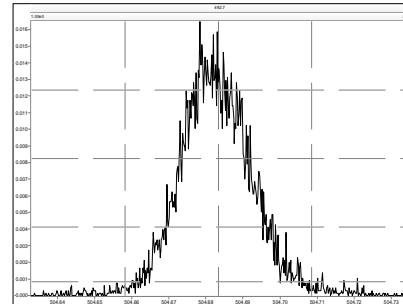
M 480.9696 R 11738



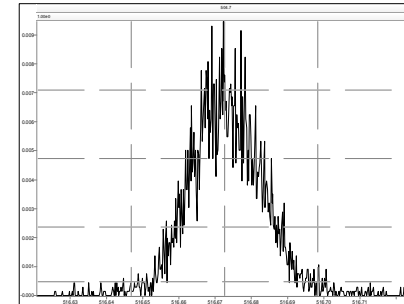
M 492.9696 R 11311



M 504.9696 R 11959



M 516.9697 R 12563



## Experiment Calibration Report

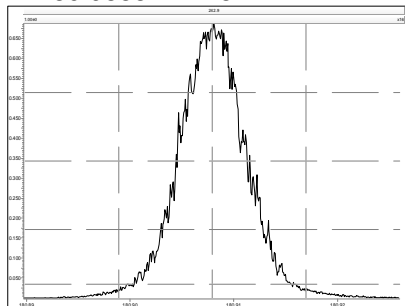
## MassLynx 4.1 SCN 881

Page 1 of 1

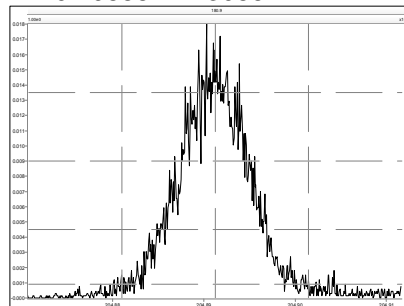
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 1 @ 200 (ppm)

Printed: Friday, March 28, 2014 15:24:32 Eastern Daylight Time

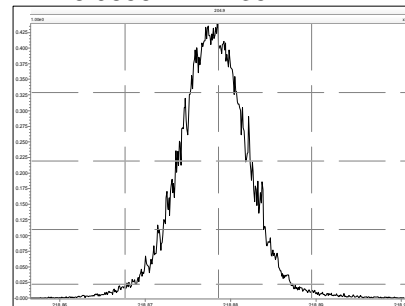
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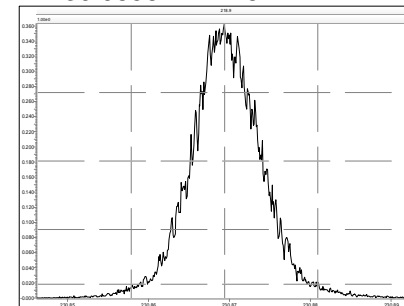
M 204.9888 R 13086



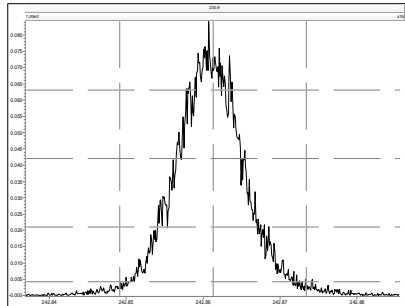
M 218.9856 R 12135



M 230.9856 R 11261



M 242.9856 R 11465



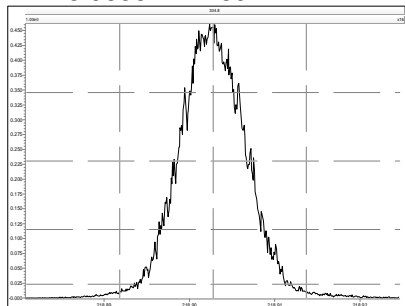
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

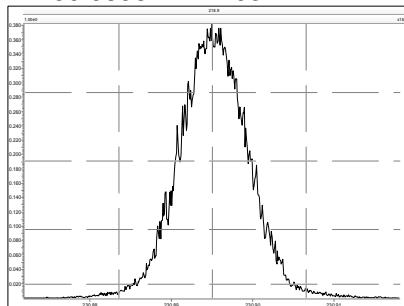
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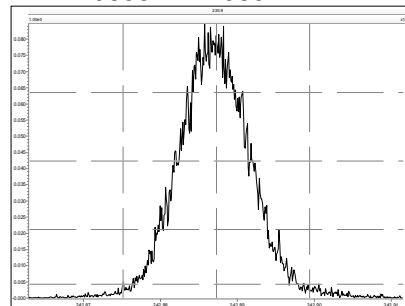
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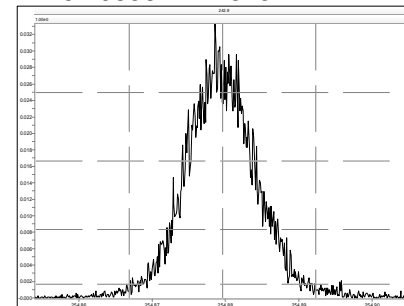
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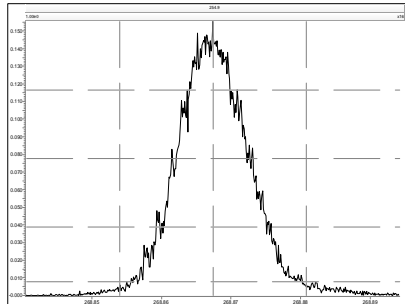
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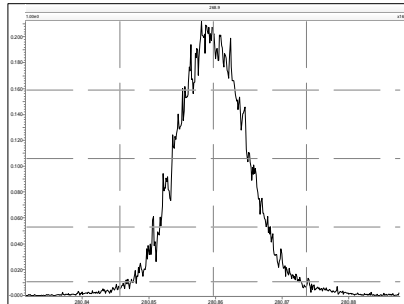
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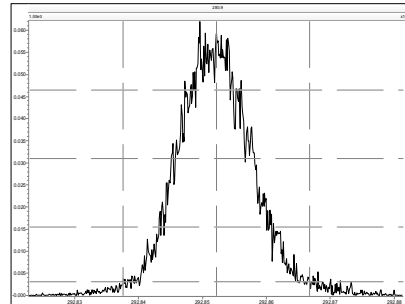
M 268.9824 R 11363



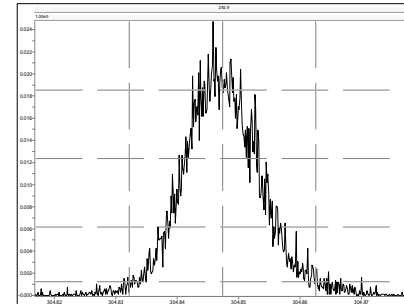
M 280.9824 R 11310



M 292.9824 R 11212



M 304.9824 R 11012



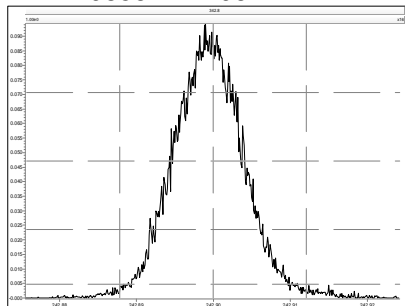
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

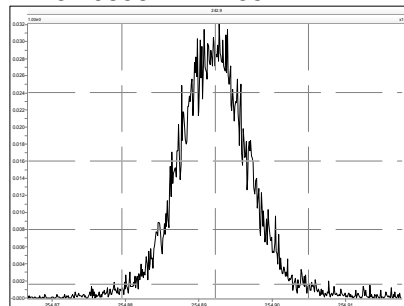
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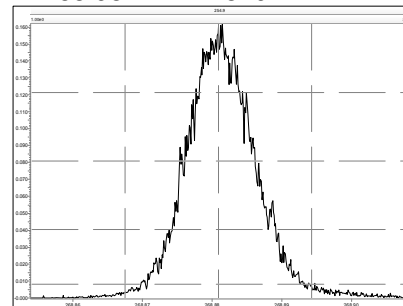
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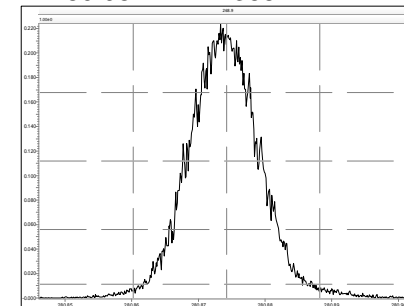
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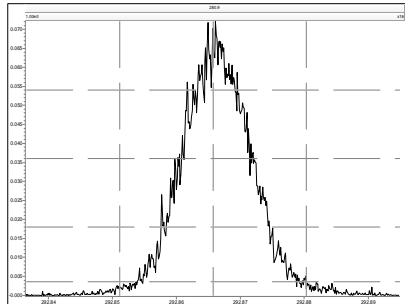
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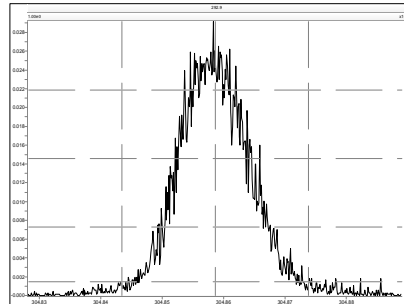
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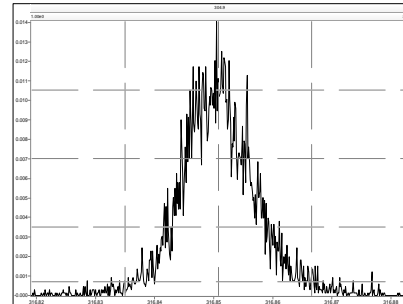
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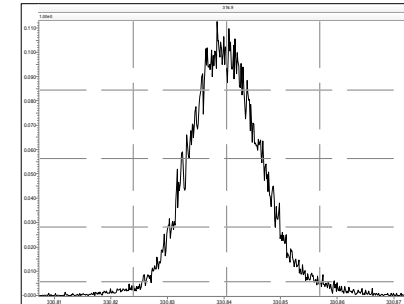
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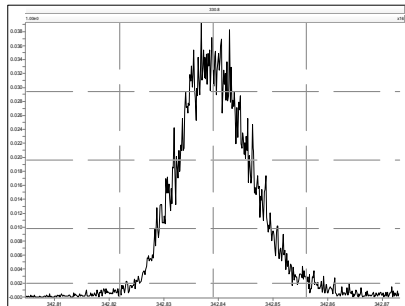
M 316.9824 R 12198



M 330.9792 R 10965



M 342.9792 R 10826



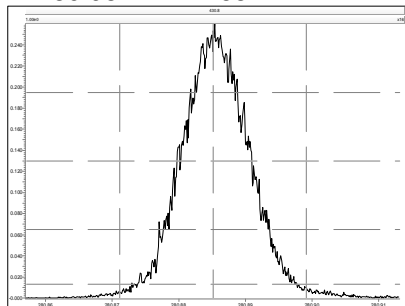
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

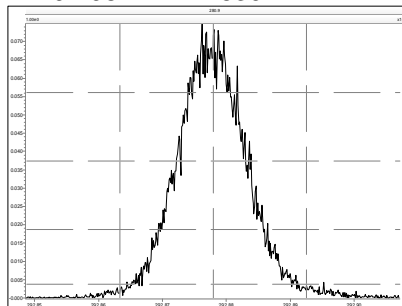
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 4 @ 200 (ppm)

Printed: Friday, March 28, 2014 15:25:27 Eastern Daylight Time

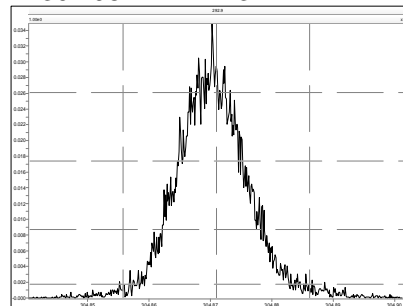
M 280.9824 R 11681



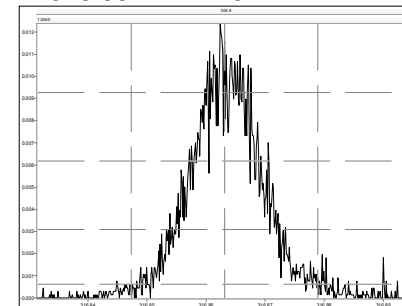
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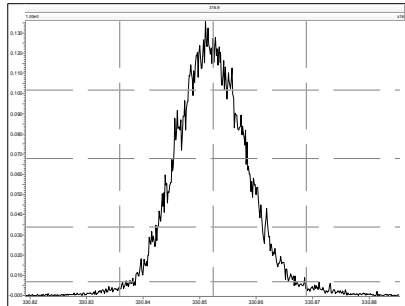
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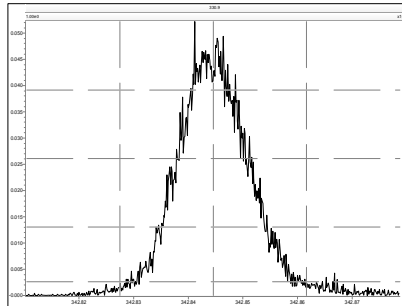
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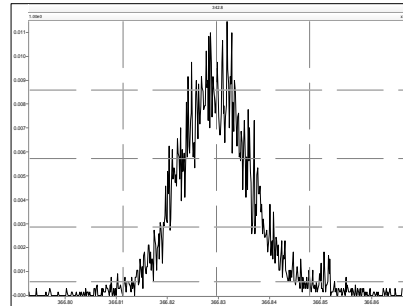
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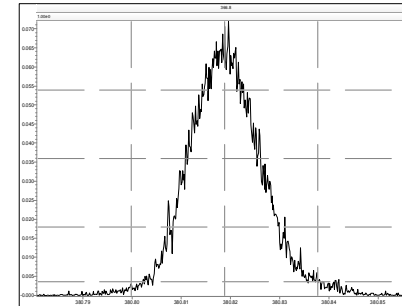
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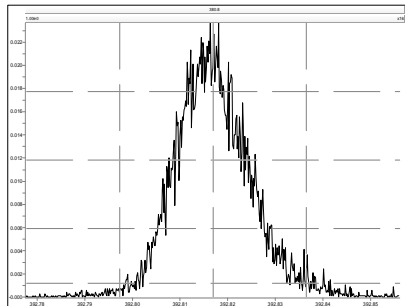
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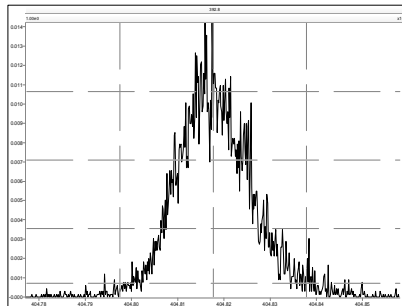
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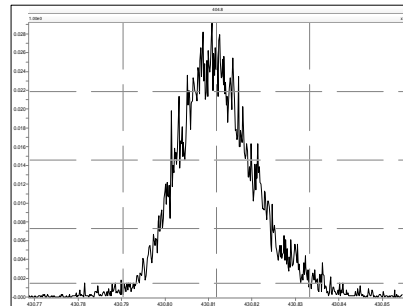
M 392.9760 R 12751



M 404.9760 R 12562



M 430.9728 R 10731





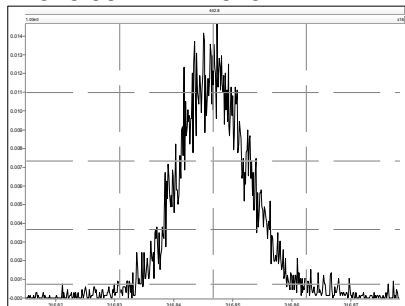
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

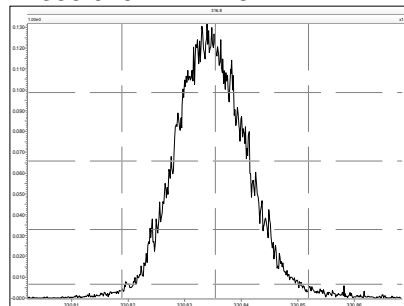
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 5 @ 200 (ppm)

Printed: Friday, March 28, 2014 15:25:52 Eastern Daylight Time

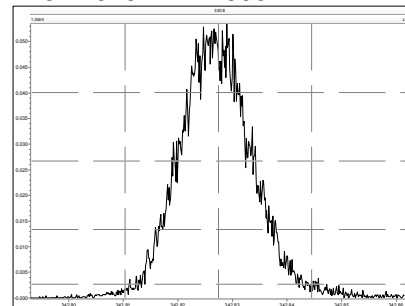
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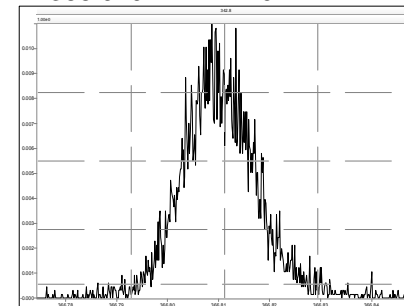
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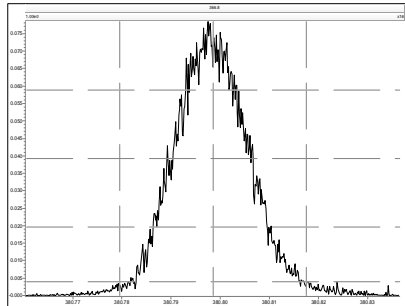
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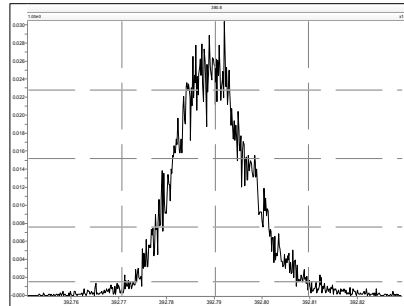
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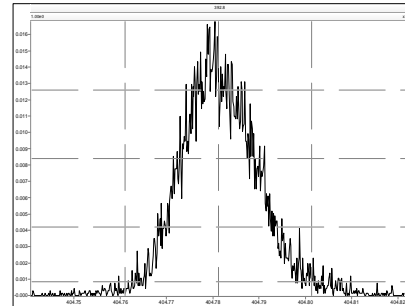
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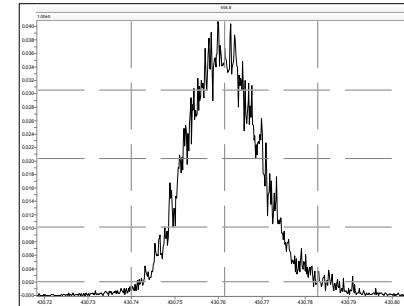
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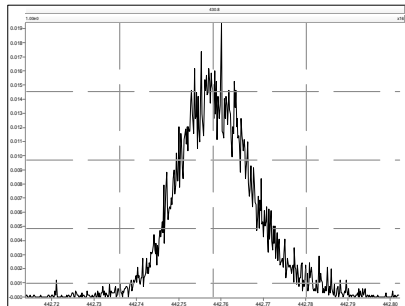
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M 430.9728 R 11013



M 442.9728 R 11015



## Experiment Calibration Report

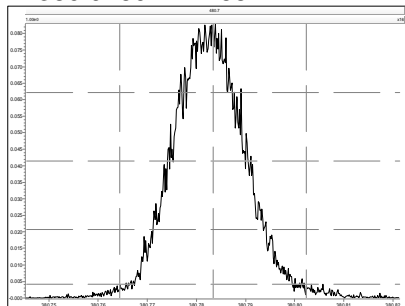
MassLynx 4.1 SCN 881

Page 1 of 1

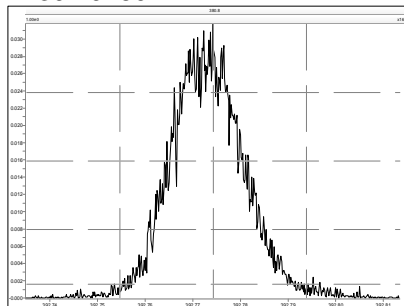
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 6 @ 200 (ppm)

Printed: Friday, March 28, 2014 15:26:09 Eastern Daylight Time

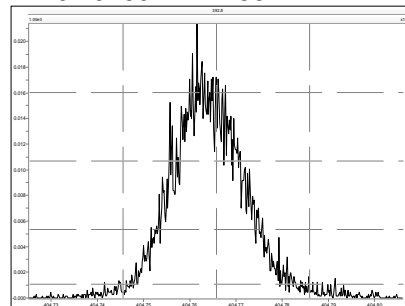
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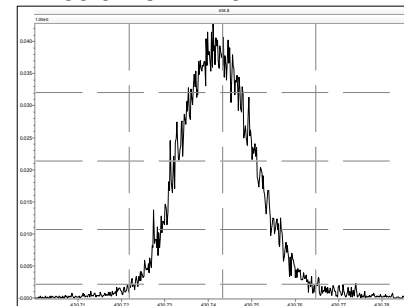
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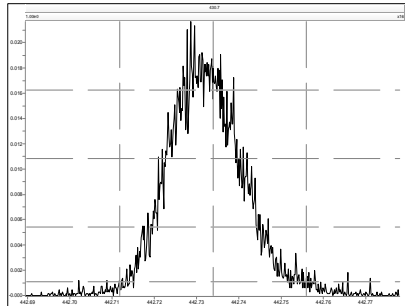
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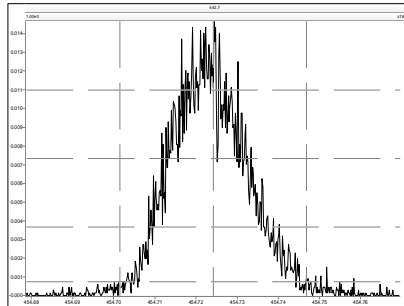
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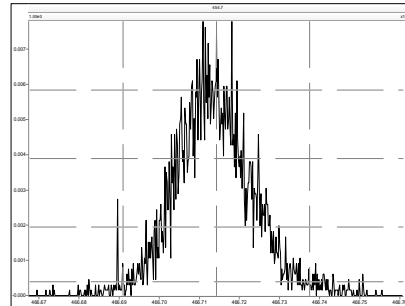
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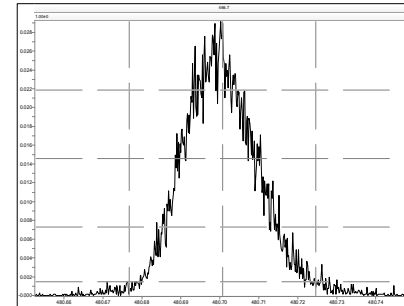
M 454.9728 R 11844



M 466.9728 R 11960



M 480.9696 R 11364



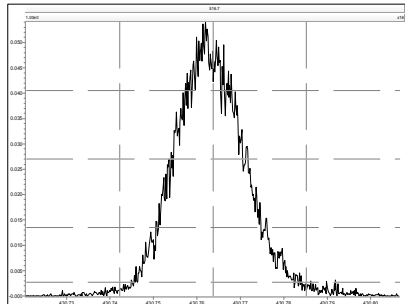
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

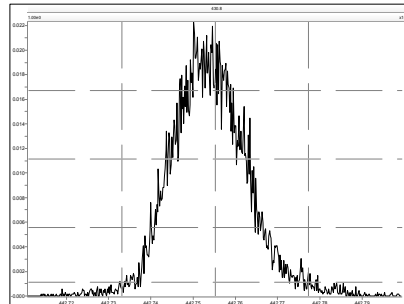
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Printed: Friday, March 28, 2014 15:26:30 Eastern Daylight Time

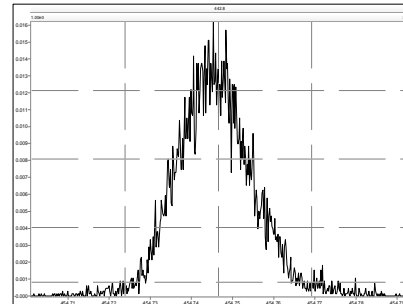
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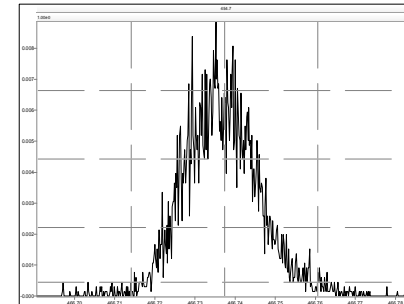
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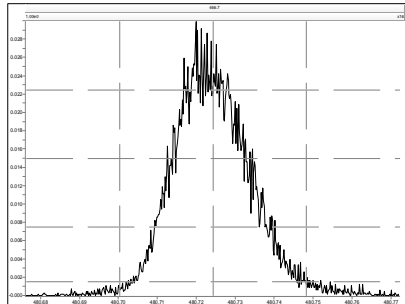
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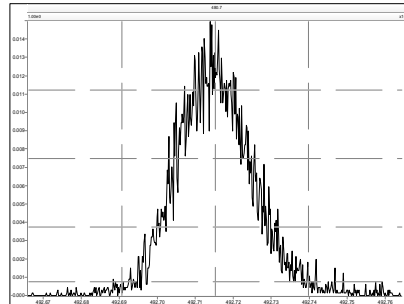
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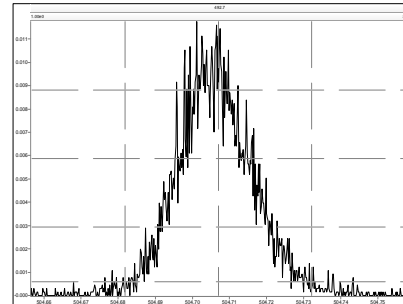
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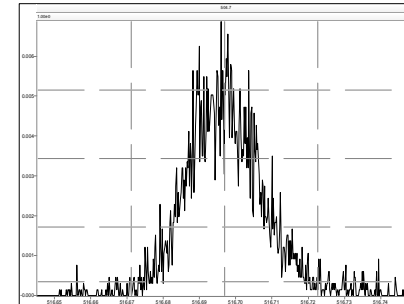
M 492.9696 R 11574



M 504.9696 R 12134



M 516.9697 R 11416



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53	
ICAL: 131220 QC MM7										
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08		
Date Processed: 3 Jan 2014 16:52			0.5	1	5	50	400	2000		
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5		
PCB-77 33'44'-TeCB	1.15	4.1%	1.17	1.11	1.09	1.14	1.17	1.22		
PCB-81 344'5'-TeCB	1.12	3.1%	1.08	1.13	1.08	1.12	1.14	1.17		
PCB-105 233'44'-PeCB	1.11	5.1%	1.13	1.02	1.07	1.13	1.15	1.18		
PCB-114 2344'5'-PeCB	1.20	4.8%	1.14	1.16	1.15	1.23	1.24	1.29		
PCB-118 23'44'5'-PeCB	1.19	4.2%	1.20	1.13	1.13	1.22	1.22	1.25		
PCB-123 23'44'5'-PeCB	1.21	2.4%	1.20	1.20	1.16	1.23	1.23	1.25		
PCB-126 33'44'5'-PeCB	1.11	5.8%	1.05	1.07	1.05	1.12	1.14	1.21		
PCB-156/157 ...-HxCB	1.10	4.0%	1.07	1.07	1.05	1.12	1.11	1.17		
PCB-167 23'44'55'-HxCB	1.16	4.0%	1.11	1.13	1.12	1.20	1.18	1.23		
PCB-169 33'44'55'-HxCB	1.12	3.5%	1.12	1.07	1.09	1.16	1.14	1.17		
PCB-189 233'44'55'-HpCB	1.07	5.0%	1.08	1.00	1.03	1.07	1.10	1.16		
PCB-209 DeCB	1.11	3.9%	1.18	1.10	1.06	1.09	1.10	1.15		
ES PCB-1	1.19	3.7%	1.25	1.22	1.21	1.18	1.17	1.13		
ES PCB-3	1.09	2.3%	1.12	1.09	1.10	1.06	1.08	1.06		
ES PCB-4	0.52	0.7%	0.52	0.52	0.53	0.52	0.52	0.53		
ES PCB-15	1.04	1.1%	1.04	1.04	1.05	1.02	1.05	1.05		
ES PCB-19	0.51	1.4%	0.50	0.50	0.51	0.50	0.51	0.52		
ES PCB-37	1.66	1.8%	1.69	1.64	1.68	1.61	1.66	1.69		
ES PCB-54	0.86	1.0%	0.86	0.86	0.88	0.85	0.86	0.85		
ES PCB-77	1.38	1.8%	1.38	1.37	1.42	1.34	1.38	1.40		
ES PCB-81	1.37	2.5%	1.37	1.35	1.36	1.32	1.38	1.42		
ES PCB-104	0.80	1.7%	0.82	0.80	0.82	0.80	0.79	0.78		
ES PCB-105	1.20	2.5%	1.22	1.21	1.25	1.18	1.18	1.17		
ES PCB-114	1.22	2.3%	1.24	1.22	1.26	1.19	1.21	1.19		
ES PCB-118	1.16	2.4%	1.19	1.17	1.19	1.13	1.14	1.14		
ES PCB-123	1.19	1.2%	1.19	1.20	1.20	1.16	1.19	1.18		
ES PCB-126	1.03	3.2%	1.07	1.02	1.07	0.99	1.01	1.01		
ES PCB-153	1.11	1.4%	1.14	1.11	1.13	1.10	1.11	1.10		
ES PCB-155	1.59	3.0%	1.66	1.60	1.63	1.56	1.56	1.52		
ES PCB-156/157	1.60	2.0%	1.60	1.57	1.63	1.56	1.64	1.61		
ES PCB-167	1.67	2.0%	1.68	1.65	1.71	1.62	1.70	1.65		
ES PCB-169	1.56	2.3%	1.54	1.53	1.58	1.51	1.60	1.58		
ES PCB-170	0.95	1.9%	0.92	0.93	0.96	0.95	0.95	0.97		
ES PCB-180	1.14	3.6%	1.11	1.10	1.13	1.11	1.16	1.21		
ES PCB-188	0.94	1.9%	0.97	0.93	0.96	0.92	0.93	0.93		
ES PCB-189	1.58	1.1%	1.61	1.57	1.60	1.57	1.57	1.58		
ES PCB-202	0.97	1.2%	0.96	0.96	0.99	0.97	0.97	0.97		
ES PCB-205	1.24	0.9%	1.24	1.23	1.26	1.24	1.25	1.25		
ES PCB-206	0.83	1.4%	0.83	0.82	0.85	0.83	0.83	0.82		

PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
ES PCB-208	1.17	1.4%	1.16	1.16	1.20	1.17	1.18	1.19	
ES PCB-209	1.11	1.9%	1.12	1.10	1.14	1.11	1.11	1.08	
SS PCB-28	1.11	1.2%	1.12	1.12	1.11	1.12	1.11	1.09	
SS PCB-111	1.03	1.6%	1.04	1.02	1.03	1.05	1.00	1.03	
SS PCB-178	0.62	2.7%	0.64	0.61	0.61	0.61	0.61	0.64	
CS PCB-28	1.85	1.4%	1.89	1.84	1.86	1.81	1.84	1.83	
CS PCB-111	1.22	1.4%	1.24	1.22	1.23	1.22	1.19	1.21	
CS PCB-178	0.58	3.7%	0.62	0.57	0.58	0.56	0.57	0.60	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46	
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53	
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29	
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24	
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31	
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31	
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10	
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13	
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19	
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18	

PCB ICAL Summary - Ax2 Detail			SGS Analytical Perspectives					Printed: 3 Jan 2014 16:53	
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013									
Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-2 3-MoCB	1.03	3.8%	1.02	1.01	0.98	1.08	1.08	1.02	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-10 26-DiCB	1.98	3.9%	1.91	1.90	1.93	2.05	2.04	2.06	
PCB-9 25-DiCB	0.95	2.8%	0.93	0.95	0.90	0.96	0.96	0.97	
PCB-7 24-DiCB	1.05	5.7%	0.95	1.03	1.02	1.09	1.08	1.11	
PCB-6 23'-DiCB	1.00	4.5%	0.97	0.94	0.96	1.03	1.03	1.05	
PCB-5 23-DiCB	1.00	4.8%	1.03	0.92	0.96	1.02	1.02	1.05	
PCB-8 24'-DiCB	1.03	3.2%	1.07	0.99	1.00	1.04	1.03	1.07	
PCB-14 35-DiCB	1.18	3.9%	1.14	1.14	1.15	1.20	1.21	1.25	
PCB-11 33'-DiCB	1.01	4.5%	0.98	0.95	0.99	1.03	1.04	1.07	
PCB-13/12 34'/34-DiCB	0.99	6.8%	0.88	0.96	0.97	1.02	1.03	1.07	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-30/18 246/22'5-TrCB	1.54	3.5%	1.49	1.47	1.51	1.57	1.59	1.60	
PCB-17 22'4-TrCB	1.31	4.4%	1.23	1.28	1.27	1.33	1.34	1.38	
PCB-27 23'6-TrCB	1.82	3.6%	1.77	1.76	1.77	1.83	1.87	1.92	
PCB-24 236-TrCB	1.72	3.4%	1.67	1.69	1.67	1.74	1.73	1.83	
PCB-16 22'3-TrCB	1.01	4.3%	0.99	0.94	1.00	1.00	1.05	1.06	
PCB-32 24'6-TrCB	1.92	2.4%	1.90	1.91	1.85	1.93	1.93	1.99	
PCB-34 23'5'-TrCB	1.14	3.0%	1.11	1.09	1.11	1.15	1.18	1.16	
PCB-23 235-TrCB	1.16	4.1%	1.20	1.09	1.10	1.18	1.19	1.17	
PCB-26/29 23'5/245-TrCB	1.17	3.0%	1.15	1.14	1.13	1.20	1.21	1.21	
PCB-25 23'4-TrCB	1.16	2.6%	1.13	1.14	1.13	1.18	1.18	1.18	
PCB-31 24'5-TrCB	1.23	3.3%	1.25	1.16	1.19	1.26	1.24	1.25	
PCB-28/20 244'/233'-TrCB	1.13	3.6%	1.13	1.08	1.08	1.17	1.17	1.17	
PCB-21/33 234/23'4'-TrCB	1.17	3.3%	1.15	1.14	1.13	1.21	1.21	1.21	
PCB-22 234'-TrCB	1.08	2.8%	1.08	1.05	1.04	1.09	1.10	1.12	
PCB-36 33'5-TrCB	1.17	4.4%	1.13	1.12	1.13	1.19	1.21	1.24	
PCB-39 34'5-TrCB	1.21	4.1%	1.18	1.16	1.16	1.24	1.25	1.27	
PCB-38 345-TrCB	1.10	3.7%	1.07	1.08	1.06	1.14	1.16	1.11	
PCB-35 33'4-TrCB	1.04	4.6%	1.01	0.98	1.00	1.08	1.07	1.10	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-50/53 22'46/22'56'-TeCB	0.88	2.7%	0.89	0.85	0.84	0.90	0.89	0.89	
PCB-45 22'36'-TeCB	0.77	5.4%	0.78	0.76	0.70	0.74	0.78	0.83	
PCB-51 22'46'-TeCB	0.86	5.9%	0.80	0.82	0.89	0.93	0.88	0.84	
PCB-46 22'36'-TeCB	0.70	2.5%	0.70	0.68	0.68	0.72	0.71	0.71	
PCB-52 22'55'-TeCB	0.84	1.7%	0.85	0.83	0.82	0.86	0.85	0.85	

PCB-73 23'56'-TeCB	1.11	4.0%	1.13	1.06	1.06	1.12	1.12	1.17
PCB-43 22'35'-TeCB	0.71	4.5%	0.68	0.68	0.72	0.77	0.72	0.70
PCB-69/49 23'46'/22'45'-TeCB	1.02	3.4%	0.99	0.98	0.99	1.05	1.05	1.06
PCB-48 22'45'-TeCB	0.84	3.5%	0.83	0.79	0.83	0.87	0.85	0.87
PCB-44/47/65 ...-TeCB	0.90	3.3%	0.89	0.88	0.86	0.93	0.93	0.93
PCB-59/62/75 ...-TeCB	1.17	3.7%	1.13	1.13	1.13	1.21	1.22	1.18
PCB-42 22'34'-TeCB	0.76	2.8%	0.76	0.73	0.75	0.79	0.77	0.78
PCB-41 22'34'-TeCB	0.69	4.3%	0.68	0.66	0.69	0.73	0.68	0.73
PCB-71/40 23'4'6'/22'33'-TeCB	0.86	3.9%	0.84	0.82	0.83	0.87	0.90	0.89
PCB-64 234'6'-TeCB	1.22	3.9%	1.17	1.18	1.18	1.27	1.25	1.28
PCB-72 23'55'-TeCB	1.21	2.1%	1.19	1.18	1.19	1.25	1.22	1.23
PCB-68 23'45'-TeCB	1.28	2.7%	1.26	1.24	1.24	1.31	1.31	1.30
PCB-57 233'5'-TeCB	1.16	2.6%	1.18	1.11	1.16	1.20	1.16	1.17
PCB-58 233'5'-TeCB	1.18	2.9%	1.17	1.13	1.15	1.20	1.19	1.23
PCB-67 23'45'-TeCB	1.26	1.9%	1.23	1.25	1.23	1.29	1.27	1.28
PCB-63 234'5'-TeCB	1.30	3.1%	1.30	1.26	1.24	1.33	1.32	1.34
PCB-61/70/74/76 ...-TeCB	1.20	2.4%	1.20	1.16	1.16	1.23	1.22	1.21
PCB-66 23'44'-TeCB	1.10	3.3%	1.06	1.06	1.09	1.14	1.14	1.13
PCB-55 233'4'-TeCB	1.12	2.3%	1.09	1.10	1.12	1.14	1.12	1.15
PCB-56 233'4'-TeCB	1.11	2.9%	1.13	1.05	1.10	1.13	1.12	1.13
PCB-60 2344'-TeCB	1.14	1.8%	1.13	1.12	1.11	1.15	1.14	1.16
PCB-80 33'55'-TeCB	1.31	2.3%	1.30	1.29	1.28	1.35	1.32	1.34
PCB-79 33'45'-TeCB	1.31	2.5%	1.26	1.33	1.28	1.31	1.35	1.32
PCB-78 33'45'-TeCB	1.06	4.2%	1.04	0.99	1.04	1.10	1.08	1.11
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46
PCB-96 22'366'-PeCB	1.23	4.7%	1.12	1.24	1.20	1.26	1.28	1.27
PCB-103 22'45'6'-PeCB	0.93	2.7%	0.91	0.91	0.91	0.96	0.95	0.95
PCB-94 22'356'-PeCB	0.80	3.3%	0.79	0.76	0.79	0.83	0.81	0.82
PCB-95 22'35'6'-PeCB	0.87	3.9%	0.89	0.80	0.85	0.89	0.87	0.89
PCB-100/93 22'44'6'/22'356'-PeCB	0.86	3.5%	0.84	0.83	0.85	0.88	0.90	0.89
PCB-102 22'456'-PeCB	0.97	6.3%	0.97	0.93	0.99	1.03	0.87	1.02
PCB-98 22'34'6'-PeCB	0.76	8.5%	0.73	0.68	0.71	0.80	0.86	0.77
PCB-88 22'346'-PeCB	0.80	11.9%	0.96	0.72	0.73	0.74	0.85	0.78
PCB-91 22'34'6'-PeCB	0.94	10.7%	0.76	0.95	0.94	1.04	0.95	1.03
PCB-84 22'33'6'-PeCB	0.72	4.5%	0.71	0.66	0.70	0.75	0.73	0.74
PCB-89 22'346'-PeCB	0.76	3.8%	0.73	0.74	0.75	0.80	0.78	0.79
PCB-121 23'45'6'-PeCB	1.20	3.2%	1.18	1.15	1.16	1.23	1.23	1.24
PCB-92 22'355'-PeCB	0.82	2.3%	0.82	0.81	0.79	0.84	0.83	0.84
PCB-113/90/101 ...-PeCB	0.99	2.4%	0.98	0.96	0.96	1.00	1.01	1.01
PCB-83 22'33'5'-PeCB	0.71	4.0%	0.77	0.70	0.71	0.72	0.70	0.69
PCB-99 22'44'5'-PeCB	0.92	6.0%	0.88	0.88	0.88	0.91	0.98	1.00
PCB-112 233'56'-PeCB	1.17	3.9%	1.12	1.12	1.16	1.24	1.17	1.18
PCB-108/119/86/97/125...-PeCB	0.98	3.2%	0.98	0.94	0.95	1.01	1.02	0.97
PCB-117 234'56'-PeCB	1.14	6.9%	1.02	1.15	1.15	1.17	1.09	1.25
PCB-116/85 23456'/22'344'-PeCB	0.94	6.2%	1.02	0.87	0.88	0.94	0.99	0.95
PCB-110 233'4'6'-PeCB	1.12	6.3%	1.09	1.07	1.06	1.25	1.11	1.13
PCB-115 2344'6'-PeCB	1.16	4.4%	1.18	1.11	1.16	1.10	1.16	1.24

PCB-82 22'33'4-PeCB	0.70	3.4%	0.69	0.67	0.67	0.70	0.72	0.73
PCB-111 233'55'-PeCB	1.22	2.9%	1.23	1.17	1.19	1.25	1.23	1.26
PCB-120 23'455'-PeCB	1.21	4.3%	1.18	1.14	1.18	1.24	1.25	1.28
PCB-107/124 ...-PeCB	1.10	4.7%	1.07	1.03	1.07	1.14	1.12	1.17
PCB-109 233'46-PeCB	1.25	8.6%	1.26	1.05	1.26	1.33	1.26	1.36
PCB-106 233'45-PeCB	1.11	3.3%	1.12	1.08	1.04	1.12	1.13	1.14
PCB-122 233'4'5'-PeCB	0.99	4.1%	0.97	0.96	0.95	1.01	1.02	1.06
PCB-127 33'455'-PeCB	1.10	5.5%	1.09	1.04	1.03	1.11	1.12	1.19
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29
PCB-152 22'3566'-HxCB	1.17	4.1%	1.16	1.12	1.13	1.16	1.23	1.23
PCB-150 22'34'66'-HxCB	1.18	3.7%	1.18	1.10	1.15	1.20	1.21	1.22
PCB-136 22'33'66'-HxCB	1.07	6.5%	1.01	0.98	1.04	1.09	1.12	1.16
PCB-145 22'3466'-HxCB	1.11	3.0%	1.13	1.09	1.06	1.12	1.14	1.16
PCB-148 22'34'56'-HxCB	1.18	4.0%	1.14	1.14	1.16	1.19	1.23	1.25
PCB-151/135 ...-HxCB	1.14	2.4%	1.11	1.13	1.12	1.14	1.16	1.18
PCB-154 22'44'56'-HxCB	1.34	3.1%	1.38	1.29	1.30	1.33	1.37	1.38
PCB-144 22'345'6-HxCB	1.18	3.1%	1.22	1.12	1.17	1.19	1.20	1.20
PCB-147/149 ...-HxCB	1.18	3.5%	1.12	1.15	1.16	1.18	1.21	1.23
PCB-134 22'33'56'-HxCB	0.92	4.3%	0.97	0.90	0.88	0.89	0.96	0.94
PCB-143 22'3456'-HxCB	1.13	3.3%	1.07	1.10	1.14	1.18	1.12	1.16
PCB-139/140 ...-HxCB	1.21	3.3%	1.20	1.16	1.17	1.20	1.24	1.27
PCB-131 22'33'46-HxCB	1.03	2.7%	1.02	1.02	0.98	1.03	1.04	1.06
PCB-142 22'3456-HxCB	0.99	4.9%	0.96	0.92	0.97	1.01	1.03	1.06
PCB-132 22'33'46'-HxCB	1.03	2.0%	1.03	1.01	1.01	1.03	1.03	1.06
PCB-133 22'33'55'-HxCB	1.13	2.8%	1.13	1.11	1.09	1.13	1.16	1.17
PCB-165 233'55'6-HxCB	1.41	1.5%	1.41	1.39	1.40	1.42	1.39	1.44
PCB-146 22'34'55'-HxCB	1.20	3.4%	1.19	1.16	1.17	1.19	1.24	1.26
PCB-161 233'45'6-HxCB	1.52	3.6%	1.50	1.44	1.50	1.54	1.55	1.60
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53
PCB-141 22'3455'-HxCB	1.09	2.5%	1.10	1.05	1.07	1.10	1.10	1.12
PCB-130 22'33'45'-HxCB	0.97	1.8%	0.97	0.95	0.96	0.97	0.98	1.00
PCB-137 22'344'5-HxCB	1.16	5.1%	1.19	1.14	1.10	1.10	1.22	1.24
PCB-164 233'4'5'6-HxCB	1.50	5.4%	1.35	1.48	1.52	1.58	1.51	1.55
PCB-163/138/129 ...-HxCB	1.19	4.0%	1.18	1.15	1.14	1.17	1.23	1.27
PCB-160 233'456-HxCB	1.52	2.3%	1.49	1.48	1.49	1.55	1.56	1.52
PCB-158 233'44'6-HxCB	1.66	2.4%	1.69	1.64	1.62	1.63	1.67	1.72
PCB-128/166 ...-HxCB	0.90	5.7%	0.86	0.86	0.85	0.91	0.93	0.98
PCB-159 233'455'-HxCB	1.11	3.3%	1.09	1.11	1.07	1.13	1.12	1.17
PCB-162 233'4'55'-HxCB	1.07	5.3%	1.03	1.01	1.03	1.11	1.10	1.15
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31
PCB-179 22'33'566'-HpCB	1.16	1.6%	1.19	1.16	1.13	1.17	1.16	1.15
PCB-184 22'344'66'-HpCB	1.13	2.7%	1.14	1.09	1.10	1.13	1.13	1.17
PCB-176 22'33'466'-HpCB	1.23	1.7%	1.21	1.22	1.22	1.25	1.24	1.26
PCB-186 22'34566'-HpCB	1.13	1.5%	1.14	1.11	1.10	1.14	1.12	1.14
PCB-178 22'33'55'6-HpCB	0.84	3.8%	0.88	0.80	0.82	0.84	0.84	0.88
PCB-175 22'33'45'6-HpCB	1.07	4.2%	1.02	1.05	1.05	1.08	1.10	1.15
PCB-187 22'34'55'6-HpCB	1.14	4.0%	1.08	1.12	1.11	1.15	1.17	1.21



PCB-182 22'344'56'-HpCB	1.18	4.7%	1.09	1.14	1.16	1.22	1.21	1.23
PCB-183 22'344'5'6'-HpCB	1.20	3.5%	1.16	1.18	1.21	1.28	1.18	1.22
PCB-185 22'3455'6'-HpCB	1.06	9.3%	0.95	1.03	0.99	1.03	1.15	1.21
PCB-174 22'33'456'-HpCB	0.99	4.3%	0.93	1.04	0.96	1.00	0.98	1.03
PCB-177 22'33'45'6'-HpCB	0.95	2.6%	0.93	0.94	0.93	0.95	0.96	0.99
PCB-181 22'344'56'-HpCB	1.09	4.9%	1.03	1.07	1.04	1.11	1.12	1.17
PCB-171/173 ...-HpCB	0.95	5.3%	0.90	0.90	0.92	0.97	0.98	1.03
PCB-172 22'33'455'-HpCB	0.99	3.7%	0.96	0.97	0.95	1.02	1.00	1.04
PCB-192 233'455'6'-HpCB	1.29	5.1%	1.17	1.27	1.28	1.32	1.32	1.36
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31
PCB-191 233'44'5'6'-HpCB	1.40	2.6%	1.41	1.40	1.33	1.40	1.40	1.44
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24
PCB-190 233'44'56'-HpCB	1.66	5.4%	1.63	1.58	1.58	1.66	1.69	1.82
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10
PCB-201 22'33'45'66'-OcCB	1.22	3.2%	1.16	1.22	1.19	1.24	1.27	1.24
PCB-204 22'344'566'-OcCB	1.12	2.5%	1.10	1.13	1.08	1.12	1.12	1.16
PCB-197 22'33'44'66'-OcCB	1.19	5.1%	1.26	1.16	1.11	1.15	1.21	1.26
PCB-200 22'33'4566'-OcCB	1.11	5.6%	1.03	1.04	1.12	1.16	1.12	1.17
PCB-198/199 ...-OcCB	0.81	3.2%	0.80	0.79	0.78	0.80	0.82	0.86
PCB-196 22'33'44'56'-OcCB	0.83	2.8%	0.84	0.80	0.82	0.84	0.84	0.87
PCB-203 22'344'55'6'-OcCB	0.87	2.5%	0.87	0.85	0.85	0.88	0.88	0.91
PCB-195 22'33'44'56'-OcCB	0.77	4.3%	0.79	0.74	0.73	0.75	0.77	0.82
PCB-194 22'33'44'55'-OcCB	0.84	3.5%	0.88	0.82	0.81	0.84	0.85	0.88
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19
PCB-207 22'33'44'566'-NoCB	1.19	3.1%	1.20	1.16	1.14	1.20	1.20	1.24
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18

Ax	RSD	Mean	sd	MM7_PCB_01102012_25 MM7_PCB_07132012_25 MM7_PCB_07122013_1 MM7_PCB_10292013_2				RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	0DEC2013				
77	10.6	1.04	0.11	1.11	1.13	1.34	1.15	8.8	1.18	0.10	-4.3%
81	9.6	1.08	0.10	1.13	1.13	1.13	1.12	0.4	1.13	0.00	0.1%
105	4.6	0.96	0.04	1.11	1.09	1.15	1.11	2.1	1.11	0.02	-1.9%
114	4.9	0.96	0.05	1.18	1.16	1.22	1.2	2.1	1.19	0.02	-2.4%
118	6.8	0.95	0.06	1.11	1.11	1.17	1.19	3.7	1.15	0.04	-3.4%
123	3.9	0.97	0.04	1.08	1.19	1.27	1.21	6.5	1.19	0.08	0.2%
126	8.6	1.00	0.09	1.07	1.06	1.12	1.11	2.9	1.09	0.03	-2.6%
156/157	6.4	0.99	0.06	1.09	1.11	1.18	1.1	3.7	1.12	0.04	-1.2%
167	5.8	0.98	0.06	1.14	1.14	1.23	1.16	3.8	1.17	0.04	-2.8%
169	4.5	0.97	0.04	1.09	1.11	1.19	1.12	3.7	1.13	0.04	-1.5%
189	14.7	0.95	0.14	1.07	1.06	1.09	1.07	1.3	1.07	0.01	-1.4%
1	9.3	1.16	0.11	1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
3	9.5	1.16	0.11	0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
4	4.7	1.03	0.05	1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
15	11.8	1.02	0.12	0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
19	4.7	1.04	0.05	1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
37	12.1	1.06	0.13	1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
54	4.3	1.06	0.05	1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
104	5.4	1.01	0.05	1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
153				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
155	3.2	1.02	0.03	1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
170				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
180				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
188	4.2	1.02	0.04	1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
202	3.0	0.91	0.03	0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
205	5.4	0.96	0.05	1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
208	2.3	0.93	0.02	1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
206	3.2	0.97	0.03	0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.2%
209	7.0	0.95	0.07	1.07	1.07	1.13	1.11	2.6	1.10	0.03	-2.1%
<b>ES</b>											
1	6.7	1.01	0.07	1.08	1.08	1.20	1.19	6.0	1.14	0.07	-5.0%
3	5.5	1.02	0.06	1.14	1.08	1.14	1.09	2.7	1.11	0.03	-2.7%
4	10.0	0.69	0.07	0.50	0.49	0.57	0.52	6.8	0.52	0.04	-6.0%
15	4.2	1.06	0.04	1.18	1.11	1.07	1.04	5.5	1.10	0.06	0.8%
19	6.3	0.62	0.04	0.53	0.55	0.57	0.51	4.8	0.54	0.03	2.3%
37	10.4	1.36	0.14	1.64	1.64	1.55	1.66	2.9	1.62	0.05	0.8%
54	7.3	1.18	0.09	0.87	0.94	0.86	0.86	4.4	0.88	0.04	6.5%
77	11.1	1.23	0.14	1.26	1.35	1.11	1.38	9.6	1.27	0.12	5.7%
81	9.4	1.19	0.11	1.20	1.29	1.26	1.37	5.6	1.28	0.07	0.7%
104	8.0	1.33	0.11	1.08	0.99	0.89	0.8	13.2	0.94	0.12	5.6%
105	4.1	1.27	0.05	1.22	1.23	1.23	1.2	1.2	1.22	0.02	1.1%
114	4.2	1.31	0.05	1.24	1.25	1.24	1.22	1.0	1.24	0.01	0.7%
118	5.3	1.31	0.07	1.28	1.28	1.26	1.16	4.6	1.24	0.06	3.0%
123	3.9	1.24	0.05	1.35	1.22	1.21	1.19	5.9	1.24	0.07	-2.0%
126	6.7	1.30	0.09	1.22	1.20	1.09	1.03	7.9	1.14	0.09	5.6%
153				1.10	1.14	1.15	1.11	2.1	1.13	0.02	1.3%
155	7.0	1.42	0.10	1.41	1.50	1.56	1.59	5.1	1.51	0.08	-1.2%
156/157	7.7	1.22	0.09	1.41	1.45	1.59	1.6	6.4	1.51	0.10	-3.9%
167	7.6	1.25	0.09	1.43	1.49	1.68	1.67	8.1	1.57	0.13	-4.6%
169	8.1	1.23	0.10	1.37	1.40	1.42	1.56	5.8	1.44	0.08	-2.4%
170				1.04	1.00	0.93	0.95	5.1	0.98	0.05	2.1%
180				1.28	1.16	1.12	1.14	6.3	1.17	0.07	-1.3%
188	8.5	1.27	0.11	1.12	1.18	1.23	0.94	11.4	1.12	0.13	5.3%
189	7.8	1.52	0.12	1.53	1.49	1.46	1.58	3.5	1.51	0.05	-1.8%
202	6.6	1.18	0.08	1.07	1.14	1.10	0.97	6.7	1.07	0.07	6.4%
205	3.9	1.27	0.05	1.26	1.20	1.22	1.24	2.0	1.23	0.02	-2.2%
206	11.3	0.97	0.11	0.90	0.87	0.95	0.83	5.9	0.89	0.05	-2.1%
208	10.2	1.27	0.13	1.22	1.19	1.19	1.17	1.7	1.19	0.02	-0.2%

1668A/B ICALs				Historica Data								436 of 711	
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean		
209	8.3	1.20	0.10	1.06	1.00	1.12	1.11	5.1	1.07	0.06	-6.8%		
<b>SS</b>													
28	3.6	1.05	0.04	0.98	1.07	1.10	1.11	5.6	1.07	0.06	0.8%		
111	4.0	1.05	0.04	0.90	1.01	1.08	1.03	7.5	1.00	0.07	0.2%		
178	3.9	0.71	0.03	0.62	0.63	0.57	0.62	4.4	0.61	0.03	3.1%		

Additional Ax	RSD	Mean	sd	Historical Mean								PD from Historical Mean
PCB-1 2-MoCB	5.1	0.98	0.05	1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%	
PCB-2 3-MoCB	3.7	1.00	0.04	0.97	1.04	0.97	1.03	3.7	1.00	0.04	3.8%	
PCB-3 4-MoCB	3.4	1.00	0.03	0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%	
PCB-4 22-DiCB	4.5	1.16	0.05	1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%	
PCB-10 26-DiCB	6.5	1.82	0.12	1.71	1.83	1.75	1.98	6.5	1.82	0.12	0.7%	
PCB-9 25-DiCB	5.7	0.89	0.05	0.83	0.89	0.90	0.95	5.7	0.89	0.05	0.4%	
PCB-7 24-DiCB	4.3	1.01	0.04	0.95	1.02	1.02	1.05	4.3	1.01	0.04	1.4%	
PCB-6 23-DiCB	4.7	0.95	0.04	0.89	0.95	0.96	1.00	4.7	0.95	0.04	-0.2%	
PCB-5 23-DiCB	4.7	0.96	0.05	0.89	0.97	0.97	1.00	4.7	0.96	0.05	1.4%	
PCB-8 24-DiCB	4.3	0.99	0.04	0.93	0.98	1.00	1.03	4.3	0.99	0.04	-0.2%	
PCB-14 35-DiCB	4.2	1.14	0.05	1.07	1.16	1.15	1.18	4.2	1.14	0.05	1.5%	
PCB-11 33-DiCB	3.3	0.98	0.03	0.94	1.00	0.99	1.01	3.3	0.98	0.03	1.7%	
PCB-13/12 34-/34-DiCB	2.8	0.99	0.03	0.95	1.02	0.99	0.99	2.8	0.99	0.03	3.2%	
PCB-15 44-DiCB	3.9	1.03	0.04	0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%	
PCB-19 226-TrCB	2.3	1.11	0.03	1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%	
PCB-30/18 246-/225-TrCB	2.6	1.48	0.04	1.48	1.46	1.45	1.54	2.6	1.48	0.04	-1.6%	
PCB-17 224-TrCB	2.0	1.28	0.03	1.28	1.25	1.26	1.31	2.0	1.28	0.03	-1.9%	
PCB-27 236-TrCB	3.8	1.72	0.07	1.70	1.69	1.68	1.82	3.8	1.72	0.07	-1.8%	
PCB-24 236-TrCB	3.1	1.65	0.05	1.63	1.63	1.60	1.72	3.1	1.65	0.05	-0.7%	
PCB-16 223-TrCB	2.6	0.97	0.03	0.97	0.95	0.96	1.01	2.6	0.97	0.03	-2.1%	
PCB-32 246-TrCB	3.1	1.84	0.06	1.81	1.79	1.84	1.92	3.1	1.84	0.06	-2.8%	
PCB-34 235-TrCB	6.4	1.05	0.07	0.98	1.05	1.04	1.14	6.4	1.05	0.07	-0.3%	
PCB-23 235-TrCB	6.9	1.07	0.07	0.98	1.06	1.07	1.16	6.9	1.07	0.07	-0.8%	
PCB-26/29 235-/245-TrCB	6.3	1.08	0.07	1.00	1.09	1.07	1.17	6.3	1.08	0.07	0.3%	
PCB-25 234-TrCB	6.5	1.08	0.07	0.99	1.07	1.09	1.16	6.5	1.08	0.07	-0.3%	
PCB-31 245-TrCB	7.2	1.13	0.08	1.03	1.11	1.13	1.23	7.2	1.13	0.08	-1.3%	
PCB-28/20 244-/233-TrCB	5.6	1.06	0.06	0.98	1.07	1.06	1.13	5.6	1.06	0.06	0.7%	
PCB-21/33 234-/234-TrCB	6.0	1.09	0.06	1.01	1.09	1.08	1.17	6.0	1.09	0.06	0.3%	
PCB-22 234-TrCB	6.0	1.01	0.06	0.93	1.02	1.00	1.08	6.0	1.01	0.06	0.8%	
PCB-36 335-TrCB	5.4	1.10	0.06	1.03	1.13	1.09	1.17	5.4	1.10	0.06	2.1%	
PCB-39 345-TrCB	4.1	1.15	0.05	1.10	1.17	1.13	1.21	4.1	1.15	0.05	1.2%	
PCB-38 345-TrCB	5.9	1.02	0.06	0.95	1.03	1.02	1.10	5.9	1.02	0.06	0.7%	
PCB-35 334-TrCB	4.0	1.01	0.04	0.96	1.04	1.00	1.04	4.0	1.01	0.04	3.2%	
PCB-37 344-TrCB	4.2	1.06	0.04	1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%	
PCB-54 2266-TeCB	6.0	1.25	0.07	1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%	
PCB-50/53 2246-/2256-TeCB	2.0	0.87	0.02	0.85	0.86	0.88	0.88	2.0	0.87	0.02	-1.1%	
PCB-45 2236-TeCB	2.2	0.75	0.02	0.75	0.73	0.76	0.77	2.2	0.75	0.02	-2.8%	
PCB-51 2246-TeCB	3.2	0.87	0.03	0.85	0.88	0.91	0.86	3.2	0.87	0.03	0.6%	
PCB-46 2236-TeCB	1.6	0.70	0.01	0.68	0.70	0.71	0.70	1.6	0.70	0.01	-0.3%	
PCB-52 2255-TeCB	2.0	0.84	0.02	0.82	0.84	0.86	0.84	2.0	0.84	0.02	0.3%	
PCB-73 2356-TeCB	1.4	1.11	0.02	1.10	1.09	1.13	1.11	1.4	1.11	0.02	-1.5%	
PCB-43 2235-TeCB	4.5	0.70	0.03	0.66	0.72	0.72	0.71	4.5	0.70	0.03	3.0%	
PCB-69/49 2346-/2245-TeCB	2.1	1.02	0.02	1.00	1.01	1.05	1.02	2.1	1.02	0.02	-0.8%	
PCB-48 2245-TeCB	1.7	0.85	0.01	0.83	0.85	0.87	0.84	1.7	0.85	0.01	0.4%	
PCB-44/47/65 2235-/2244-	1.5	0.90	0.01	0.88	0.89	0.91	0.90	1.5	0.90	0.01	-0.8%	
PCB-59/62/75 2336-/2346-/24	2.4	1.15	0.03	1.12	1.14	1.18	1.17	2.4	1.15	0.03	-1.2%	
PCB-42 2234-TeCB	2.9	0.78	0.02	0.77	0.77	0.81	0.76	2.9	0.78	0.02	-0.8%	
PCB-41 2234-TeCB	2.2	0.71	0.02	0.72	0.73	0.71	0.69	2.2	0.71	0.02	2.1%	
PCB-71/40 2346-/2233-TeCB	1.5	0.86	0.01	0.85	0.87	0.88	0.86	1.5	0.86	0.01	0.2%	
PCB-64 2346-TeCB	1.7	1.23	0.02	1.21	1.24	1.26	1.22	1.7	1.23	0.02	0.5%	

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	0DEC2013				
PCB-72 23'55'-TeCB				1.13	1.14	1.17	1.21	3.0	1.16	0.03	-1.8%
PCB-68 23'45'-TeCB				1.21	1.21	1.26	1.28	2.8	1.24	0.04	-2.5%
PCB-57 23'3'5'-TeCB				1.10	1.11	1.12	1.16	2.3	1.12	0.03	-1.4%
PCB-58 23'3'5'-TeCB				1.11	1.10	1.16	1.18	3.4	1.14	0.04	-3.4%
PCB-67 23'45'-TeCB				1.15	1.16	1.20	1.26	4.2	1.19	0.05	-2.8%
PCB-63 23'4'5'-TeCB				1.22	1.22	1.25	1.30	3.1	1.25	0.04	-2.6%
PCB-61/70/74/76 23'45'-/23'4'5'				1.13	1.13	1.17	1.20	2.8	1.16	0.03	-2.3%
PCB-66 23'44'-TeCB				1.06	1.08	1.10	1.10	1.7	1.09	0.02	-0.9%
PCB-55 23'3'4'-TeCB				1.09	1.10	1.11	1.12	1.3	1.10	0.01	-0.6%
PCB-56 23'3'4'-TeCB				1.05	1.06	1.07	1.11	2.4	1.07	0.03	-1.7%
PCB-60 23'44'-TeCB				1.12	1.11	1.15	1.14	1.5	1.13	0.02	-1.5%
PCB-80 33'55'-TeCB				1.26	1.25	1.27	1.31	2.1	1.27	0.03	-1.5%
PCB-79 33'45'-TeCB				1.26	1.23	1.28	1.31	2.6	1.27	0.03	-2.9%
PCB-78 33'45'-TeCB				1.09	1.08	1.05	1.06	1.6	1.07	0.02	0.9%
PCB-104 22'466'-PeCB				1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
PCB-96 22'366'-PeCB				0.98	1.08	1.12	1.23	9.5	1.10	0.10	-2.4%
PCB-103 22'45'6'-PeCB				0.80	0.90	0.95	0.93	7.2	0.90	0.06	0.6%
PCB-94 22'356'-PeCB				0.70	0.78	0.81	0.80	6.6	0.77	0.05	0.4%
PCB-95 22'35'6'-PeCB				0.75	0.83	0.88	0.87	7.5	0.83	0.06	-0.7%
PCB-100/93 22'44'6'-/22'356'-P				0.76	0.84	0.90	0.86	6.9	0.84	0.06	0.2%
PCB-102 22'456'-PeCB				0.82	0.90	0.98	0.97	8.1	0.92	0.07	-1.9%
PCB-98 22'3'46'-PeCB				0.69	0.77	0.80	0.76	5.9	0.76	0.04	2.4%
PCB-88 22'346'-PeCB				0.67	0.79	0.77	0.80	7.8	0.76	0.06	4.7%
PCB-91 22'34'6'-PeCB				0.84	0.88	1.00	0.94	7.5	0.91	0.07	-3.8%
PCB-84 22'33'6'-PeCB				0.65	0.71	0.72	0.72	5.2	0.70	0.04	1.4%
PCB-89 22'346'-PeCB				0.68	0.76	0.78	0.76	6.0	0.75	0.04	1.9%
PCB-121 23'45'6'-PeCB				1.02	1.14	1.20	1.20	7.4	1.14	0.08	0.2%
PCB-92 22'355'-PeCB				0.73	0.80	0.84	0.82	6.0	0.80	0.05	0.2%
PCB-113/90/101 23'3'5'6'-/22'3				0.85	0.93	0.99	0.99	7.0	0.94	0.07	-0.9%
PCB-83 22'33'5'-PeCB				0.63	0.71	0.72	0.71	5.7	0.69	0.04	2.8%
PCB-99 22'44'5'-PeCB				0.82	0.87	0.95	0.92	6.5	0.89	0.06	-2.1%
PCB-112 23'3'56'-PeCB				1.01	1.13	1.17	1.17	6.7	1.12	0.07	0.7%
PCB-108/119/86/97/125/87 233				0.87	0.95	1.01	0.98	6.4	0.95	0.06	-0.1%
PCB-117 23'4'56'-PeCB				0.96	1.04	1.05	1.14	7.2	1.05	0.08	-0.7%
PCB-116/85 23'456'-/22'344'-Pe				0.87	0.97	1.03	0.94	7.0	0.95	0.07	2.2%
PCB-110 23'3'4'6'-PeCB				0.95	1.02	1.11	1.12	7.7	1.05	0.08	-2.6%
PCB-115 23'44'6'-PeCB				1.02	1.16	1.21	1.16	6.9	1.14	0.08	1.8%
PCB-82 22'33'4'-PeCB				0.63	0.69	0.72	0.70	5.5	0.68	0.04	0.9%
PCB-111 23'3'55'-PeCB				1.05	1.15	1.22	1.22	7.0	1.16	0.08	-0.5%
PCB-120 23'455'-PeCB				1.05	1.16	1.22	1.21	6.5	1.16	0.08	-0.1%
PCB-107/124 23'3'4'5'-/2'3455'				0.99	1.07	1.11	1.10	5.3	1.07	0.06	0.6%
PCB-109 23'3'46'-PeCB				1.05	1.14	1.18	1.25	7.1	1.16	0.08	-1.2%
PCB-106 23'3'45'-PeCB				0.98	1.07	1.11	1.11	5.6	1.07	0.06	0.1%
PCB-122 2'33'45'-PeCB				1.01	1.00	1.01	0.99	1.0	1.00	0.01	-0.2%
PCB-127 33'455'-PeCB				1.12	1.10	1.08	1.10	1.5	1.10	0.02	-0.1%
PCB-155 22'44'66'-HxCB				1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
PCB-152 22'3566'-HxCB				1.00	1.01	1.14	1.17	8.0	1.08	0.09	-6.4%
PCB-150 22'34'66'-HxCB				1.03	1.00	1.15	1.18	7.9	1.09	0.09	-8.0%
PCB-136 22'33'66'-HxCB				0.95	0.95	1.07	1.07	6.8	1.01	0.07	-5.7%
PCB-145 22'3466'HxCB				0.98	0.96	1.09	1.11	7.4	1.03	0.08	-7.0%
PCB-148 22'34'56'-HxCB				0.96	0.97	1.12	1.18	10.5	1.06	0.11	-8.2%
PCB-151/135 22'355'6'-/22'33'				0.94	0.96	1.11	1.14	9.8	1.04	0.10	-7.2%
PCB-154 22'44'5'6'-HxCB				1.05	1.09	1.26	1.34	11.7	1.19	0.14	-8.1%
PCB-144 22'345'6'-HxCB				0.96	0.98	1.13	1.18	10.1	1.06	0.11	-7.7%
PCB-147/149 22'34'56'-/22'34'				0.96	0.99	1.14	1.18	10.3	1.07	0.11	-7.8%
PCB-134 22'33'56'-HxCB				0.78	0.80	0.90	0.92	8.1	0.85	0.07	-5.8%
PCB-143 22'3456'-HxCB				0.92	0.95	1.09	1.13	10.0	1.02	0.10	-6.8%
PCB-139/140 22'344'6'-/22'344'				0.99	1.00	1.14	1.21	10.1	1.09	0.11	-7.9%
PCB-131 22'33'46'-HxCB				0.84	0.85	0.98	1.03	10.4	0.93	0.10	-8.2%
PCB-142 22'3456'-HxCB				0.86	0.88	0.98	0.99	7.4	0.93	0.07	-5.7%
PCB-132 22'33'46'-HxCB				0.87	0.89	1.02	1.03	8.8	0.95	0.08	-6.7%
PCB-133 22'33'55'-HxCB				0.92	0.91	1.04	1.13	10.2	1.00	0.10	-8.7%

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	ODEC2013				
PCB-165 233'55'6"-HxCB				1.12	1.13	1.32	1.41	11.4	1.24	0.14	-9.0%
PCB-146 22'34'55"-HxCB				0.99	1.01	1.16	1.20	10.0	1.09	0.11	-7.6%
PCB-161 233'45'6"-HxCB				1.24	1.25	1.41	1.52	9.8	1.36	0.13	-7.6%
PCB-153/168 22'44'55"-/23'44'				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
PCB-141 22'34'55"-HxCB				0.92	0.93	1.06	1.09	8.9	1.00	0.09	-7.3%
PCB-130 22'33'45"-HxCB				0.82	0.85	0.95	0.97	8.2	0.90	0.07	-5.7%
PCB-137 22'34'4'5"-HxCB				1.00	1.04	1.08	1.16	6.3	1.07	0.07	-2.7%
PCB-164 233'4'5'6"-HxCB				1.21	1.22	1.45	1.50	11.2	1.35	0.15	-9.1%
PCB-163/138/129 233'4'56"-/22'				1.01	1.02	1.14	1.19	8.1	1.09	0.09	-6.2%
PCB-160 233'456"-HxCB				1.18	1.21	1.32	1.52	11.9	1.31	0.16	-7.6%
PCB-158 233'44'6"-HxCB				1.30	1.34	1.50	1.66	11.4	1.45	0.17	-7.7%
PCB-128/166 22'33'44"-/2344'5				0.91	0.90	0.95	0.90	2.7	0.92	0.02	-1.9%
PCB-159 233'455"-HxCB				1.07	1.06	1.14	1.11	3.0	1.10	0.03	-3.0%
PCB-162 233'4'55"-HxCB				1.09	1.08	1.14	1.07	2.7	1.09	0.03	-1.7%
PCB-188 22'34'566"-HpCB				1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
PCB-179 22'33'566"-HpCB				0.95	0.97	0.92	1.16	10.8	1.00	0.11	-3.1%
PCB-184 22'344'66"-HpCB				0.94	0.93	0.90	1.13	10.6	0.98	0.10	-4.6%
PCB-176 22'33'466"-HpCB				1.05	1.05	1.00	1.23	9.4	1.08	0.10	-3.2%
PCB-186 22'34566"-HpCB				0.98	0.98	0.94	1.13	8.3	1.01	0.08	-2.6%
PCB-178 22'33'55'6"-HpCB				0.73	0.74	0.69	0.84	8.6	0.75	0.06	-1.8%
PCB-175 22'33'45'6"-HpCB				0.95	1.01	1.09	1.07	6.1	1.03	0.06	-2.0%
PCB-187 22'34'55'6"-HpCB				0.99	1.06	1.17	1.14	7.4	1.09	0.08	-2.5%
PCB-182 22'344'56"-HpCB				1.02	1.11	1.19	1.18	6.9	1.12	0.08	-1.2%
PCB-183 22'344'5'6"-HpCB				1.06	1.13	1.17	1.20	5.4	1.14	0.06	-0.6%
PCB-185 22'3455'6"-HpCB				0.95	1.02	1.13	1.06	7.3	1.04	0.08	-2.0%
PCB-174 22'33'456"-HpCB				0.83	0.93	0.99	0.99	8.0	0.93	0.07	-0.7%
PCB-177 22'33'4'56"-HpCB				0.85	0.91	0.97	0.95	5.7	0.92	0.05	-1.3%
PCB-181 22'344'56"-HpCB				0.98	1.06	1.10	1.09	4.9	1.06	0.05	0.3%
PCB-171/173 22'33'44'6"-/22'3				0.85	0.93	0.96	0.95	5.4	0.92	0.05	0.6%
PCB-172 22'33'455"-HpCB				0.88	0.95	0.99	0.99	5.5	0.95	0.05	0.3%
PCB-192 233'455'6"-HpCB				1.12	1.24	1.26	1.29	6.0	1.23	0.07	1.0%
PCB-180/193 22'344'55"-/233'				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
PCB-191 233'44'5'6"-HpCB				1.20	1.30	1.32	1.40	6.4	1.31	0.08	-0.3%
PCB-170 22'33'44'5"-HpCB				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
PCB-190 233'44'56"-HpCB				1.42	1.45	1.54	1.66	7.2	1.52	0.11	-4.3%
PCB-202 22'33'55'66"-OcCB				0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
PCB-201 22'33'45'66"-OcCB				1.04	1.02	1.07	1.22	8.3	1.09	0.09	-6.2%
PCB-204 22'344'566"-OcCB				0.99	0.98	1.02	1.12	6.3	1.03	0.07	-4.9%
PCB-197 22'33'44'66"-OcCB				1.03	1.06	1.13	1.19	6.3	1.10	0.07	-3.6%
PCB-200 22'33'4566"-OcCB				1.02	0.96	1.02	1.11	6.0	1.03	0.06	-6.4%
PCB-198/199 22'33'455'6"-/22'				0.74	0.72	0.73	0.81	5.7	0.75	0.04	-4.2%
PCB-196 22'33'44'56"-OcCB				0.77	0.73	0.76	0.83	5.5	0.77	0.04	-5.3%
PCB-203 22'344'55'6"-OcCB				0.80	0.76	0.79	0.87	5.7	0.80	0.05	-5.1%
PCB-195 22'33'44'56"-OcCB				0.79	0.80	0.82	0.77	2.7	0.80	0.02	0.5%
PCB-194 22'33'44'55"-OcCB				0.87	0.87	0.89	0.84	2.3	0.87	0.02	0.7%
PCB-205 233'44'55'6"-OcCB				1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
PCB-208 22'33'455'66"-NoCB				1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
PCB-207 22'33'44'566"-NoCB				1.07	1.06	1.10	1.19	5.4	1.10	0.06	-4.3%
PCB-206 22'33'44'55'6"-NoCB				0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.0%

## SGS Analytical Perspectives — Run Log

Project: 131220 QC MM7

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	131220X02	Tray1:37	CS0_131220_PCB_XA	1.00	SIL 13-79-6	LKB	067-110	20-Dec-2013	14:56:33
3	131220X03	Tray1:38	CS1_131220_PCB_XA	1.00	SIL 13-79-5	LKB	983-753	20-Dec-2013	16:14:56
4	131220X04	Tray1:39	CS2_131220_PCB_XA	1.00	SIL 13-79-4	LKB	288-489	20-Dec-2013	17:09:38
5	131220X05	Tray1:40	CS3_131220_PCB_XA	1.00	SIL 13-79-3	LKB	297-225	20-Dec-2013	18:04:38
6	131220X06	Tray1:41	CS4_131220_PCB_XA	1.00	SIL 13-79-2	LKB	186-257	20-Dec-2013	18:59:38
7	131220X07	Tray1:02	SBS_131220_PCB_XB	1.00	SIL 9-42-1	LKB	307-094	20-Dec-2013	19:54:39
8	131220X08	Tray1:42	CS5_131220_PCB_XA	1.00	SIL 13-84-1	LKB	807-075	20-Dec-2013	20:49:35
9	131220X09	Tray1:02	SBS_131220_PCB_XC	1.00	SIL 9-42-1	LKB	023-880	20-Dec-2013	21:57:30
10	131220X10	Tray1:02	SBS_131220_PCB_XD	1.00	SIL 9-42-1	LKB	979-518	20-Dec-2013	22:52:16

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	6.82E+05	0.76 Y	1.15	1.17	1.8%	
PCB-81 344'5'-TeCB	32.64	6.25E+05	0.76 Y	1.12	1.08	-3.1%	
PCB-105 233'44'-PeCB	36.11	5.30E+05	0.63 Y	1.11	1.13	1.5%	
PCB-114 2344'5'-PeCB	35.57	5.44E+05	0.67 Y	1.20	1.14	-5.0%	
PCB-118 23'44'5'-PeCB	35.10	5.47E+05	0.67 Y	1.19	1.20	0.6%	
PCB-123 23'44'5'-PeCB	34.82	5.49E+05	0.63 Y	1.21	1.20	-0.6%	
PCB-126 33'44'5'-PeCB	38.73	4.31E+05	0.61 Y	1.11	1.05	-5.2%	
PCB-156/157 ...-HxCB	41.28	8.79E+05	1.18 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	4.81E+05	1.11 Y	1.16	1.11	-4.2%	
PCB-169 33'44'55'-HxCB	44.00	4.43E+05	1.39 Y	1.12	1.12	-0.5%	
PCB-189 233'44'55'-HpCB	46.13	4.42E+05	1.03 Y	1.07	1.08	0.2%	
PCB-209 DeCB	51.25	3.36E+05	1.21 Y	1.11	1.18	6.0%	
ES PCB-1	12.05	2.32E+08	3.31 Y	1.19	1.25	5.1%	
ES PCB-3	14.37	2.09E+08	3.36 Y	1.09	1.12	3.5%	
ES PCB-4	14.63	9.70E+07	1.64 Y	0.52	0.52	0.1%	
ES PCB-15	20.39	1.92E+08	1.56 Y	1.04	1.04	-0.4%	
ES PCB-19	17.75	9.22E+07	1.08 Y	0.51	0.50	-1.7%	
ES PCB-37	26.75	1.42E+08	1.09 Y	1.66	1.69	1.7%	
ES PCB-54	20.68	7.28E+07	0.79 Y	0.86	0.86	0.4%	
ES PCB-77	33.10	1.16E+08	0.80 Y	1.38	1.38	-0.1%	
ES PCB-81	32.62	1.15E+08	0.81 Y	1.37	1.37	0.2%	
ES PCB-104	25.69	6.25E+07	1.64 Y	0.80	0.82	1.5%	
ES PCB-105	36.09	9.38E+07	1.62 Y	1.20	1.22	1.8%	
ES PCB-114	35.55	9.51E+07	1.64 Y	1.22	1.24	1.8%	
ES PCB-118	35.08	9.14E+07	1.64 Y	1.16	1.19	2.9%	
ES PCB-123	34.80	9.13E+07	1.59 Y	1.19	1.19	0.4%	
ES PCB-126	38.71	8.22E+07	1.56 Y	1.03	1.07	4.3%	
ES PCB-153	36.67	5.84E+07	1.32 Y	1.11	1.14	2.1%	
ES PCB-155	30.66	8.51E+07	1.30 Y	1.59	1.66	4.3%	
ES PCB-156/157	41.26	1.64E+08	1.31 Y	1.60	1.60	0.0%	
ES PCB-167	40.28	8.65E+07	1.29 Y	1.67	1.68	0.9%	
ES PCB-169	43.98	7.92E+07	1.29 Y	1.56	1.54	-1.0%	
ES PCB-170	43.50	4.71E+07	1.09 Y	0.95	0.92	-2.5%	
ES PCB-180	42.43	5.69E+07	1.07 Y	1.14	1.11	-2.0%	
ES PCB-188	35.54	4.97E+07	1.11 Y	0.94	0.97	2.9%	
ES PCB-189	46.11	8.21E+07	1.04 Y	1.58	1.61	1.7%	
ES PCB-202	40.09	4.94E+07	0.92 Y	0.97	0.96	-0.9%	
ES PCB-205	48.28	6.33E+07	0.90 Y	1.24	1.24	-0.3%	
ES PCB-206	49.75	4.24E+07	0.81 Y	0.83	0.83	0.3%	
ES PCB-208	45.73	5.90E+07	0.81 Y	1.17	1.16	-1.6%	
ES PCB-209	51.23	5.69E+07	1.19 Y	1.11	1.12	0.5%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.59E+08	1.09 Y	1.11	1.12	0.5%	
SS PCB-111	33.12	9.52E+07	1.60 Y	1.03	1.04	1.3%	
SS PCB-178	38.11	3.17E+07	1.06 Y	0.62	0.64	3.0%	
CS PCB-28	23.18	1.59E+08	1.09 Y	1.85	1.89	2.2%	
CS PCB-111	33.12	9.52E+07	1.60 Y	1.22	1.24	1.7%	
CS PCB-178	38.11	3.17E+07	1.06 Y	0.58	0.62	6.0%	
JS PCB-9	16.63	1.86E+08	1.57 Y	-	-	-	
JS PCB-52	24.81	8.42E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	7.67E+07	1.63 Y	-	-	-	
JS PCB-138	37.74	5.14E+07	1.34 Y	-	-	-	
JS PCB-194	47.88	5.10E+07	0.93 Y	-	-	-	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	3.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	0.9%	
PCB-2 3-MoCB	14.20	1.07E+06	3.22 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-10 26'-DiCB	14.83	9.26E+05	0.00 S	1.98	1.91	-3.6%	
PCB-9 25'-DiCB	16.65	8.91E+05	0.00 S	0.95	0.93	-2.0%	
PCB-7 24'-DiCB	16.82	9.13E+05	0.00 S	1.05	0.95	-9.2%	
PCB-6 23'-DiCB	17.04	9.28E+05	0.00 S	1.00	0.97	-3.0%	
PCB-5 23'-DiCB	17.35	9.94E+05	0.00 S	1.00	1.03	3.2%	
PCB-8 24'-DiCB	17.47	1.02E+06	0.00 S	1.03	1.07	3.2%	
PCB-14 35'-DiCB	19.04	1.10E+06	0.00 S	1.18	1.14	-3.4%	
PCB-11 33'-DiCB	19.83	9.44E+05	0.00 S	1.01	0.98	-2.8%	
PCB-13/12 34'/34'-DiCB	20.12	1.69E+06	0.00 S	0.99	0.88	-11.2%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-30/18 246'/22'5'-TrCB	19.54	1.37E+06	1.04 Y	1.54	1.49	-3.2%	
PCB-17 22'4'-TrCB	19.95	5.65E+05	1.04 Y	1.31	1.23	-6.1%	
PCB-27 23'6'-TrCB	20.14	8.14E+05	1.08 Y	1.82	1.77	-2.9%	
PCB-24 236'-TrCB	20.27	7.72E+05	1.06 Y	1.72	1.67	-2.9%	
PCB-16 22'3'-TrCB	20.37	4.55E+05	1.10 Y	1.01	0.99	-2.0%	
PCB-32 24'6'-TrCB	20.86	8.78E+05	1.08 Y	1.92	1.90	-0.8%	
PCB-34 23'5'-TrCB	22.01	7.89E+05	1.08 Y	1.14	1.11	-2.3%	
PCB-23 235'-TrCB	22.16	8.53E+05	0.94 Y	1.16	1.20	3.8%	
PCB-26/29 23'5'/245'-TrCB	22.45	1.63E+06	1.01 Y	1.17	1.15	-2.1%	
PCB-25 23'4'-TrCB	22.65	8.01E+05	0.97 Y	1.16	1.13	-2.7%	
PCB-31 24'5'-TrCB	22.92	8.89E+05	1.01 Y	1.23	1.25	2.0%	
PCB-28/20 244'/233'-TrCB	23.21	1.61E+06	1.02 Y	1.13	1.13	-0.1%	
PCB-21/33 234'/23'4'-TrCB	23.39	1.63E+06	0.98 Y	1.17	1.15	-2.4%	
PCB-22 234'-TrCB	23.77	7.71E+05	1.00 Y	1.08	1.08	0.4%	
PCB-36 33'5'-TrCB	25.16	8.01E+05	1.00 Y	1.17	1.13	-3.7%	
PCB-39 34'5'-TrCB	25.48	8.42E+05	1.02 Y	1.21	1.18	-2.3%	
PCB-38 345'-TrCB	26.02	7.61E+05	0.93 Y	1.10	1.07	-3.2%	
PCB-35 33'4'-TrCB	26.41	7.19E+05	1.01 Y	1.04	1.01	-2.8%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	1.02E+06	0.81 Y	0.88	0.89	1.3%	
PCB-45 22'36'-TeCB	23.29	4.52E+05	0.79 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.37	4.59E+05	0.83 Y	0.86	0.80	-7.3%	
PCB-46 22'36'-TeCB	23.57	4.01E+05	0.83 Y	0.70	0.70	-0.4%	
PCB-52 22'55'-TeCB	24.83	4.90E+05	0.76 Y	0.84	0.85	0.7%	
PCB-73 23'5'6'-TeCB	24.96	6.54E+05	0.81 Y	1.11	1.13	2.0%	
PCB-43 22'35'-TeCB	25.06	3.93E+05	0.85 Y	0.71	0.68	-4.1%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	1.15E+06	0.76 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	4.76E+05	0.82 Y	0.84	0.83	-1.5%	
PCB-44/47/65 ...-TeCB	25.76	1.54E+06	0.78 Y	0.90	0.89	-1.8%	
PCB-59/62/75 ...-TeCB	26.03	1.95E+06	0.80 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.20	4.38E+05	0.81 Y	0.76	0.76	-0.5%	
PCB-41 22'34'-TeCB	26.54	3.93E+05	0.87 Y	0.69	0.68	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	9.69E+05	0.82 Y	0.86	0.84	-2.2%	
PCB-64 234'6'-TeCB	26.83	6.74E+05	0.82 Y	1.22	1.17	-4.3%	
PCB-72 23'55'-TeCB	27.55	6.87E+05	0.78 Y	1.21	1.19	-1.5%	
PCB-68 23'45'-TeCB	27.80	7.26E+05	0.84 Y	1.28	1.26	-1.4%	
PCB-57 233'5'-TeCB	28.18	6.81E+05	0.73 Y	1.16	1.18	1.5%	
PCB-58 233'5'-TeCB	28.38	6.76E+05	0.76 Y	1.18	1.17	-0.6%	
PCB-67 23'45'-TeCB	28.54	7.09E+05	0.78 Y	1.26	1.23	-2.3%	
PCB-63 234'5'-TeCB	28.77	7.50E+05	0.82 Y	1.30	1.30	0.2%	
PCB-61/70/74/76 ...-TeCB	29.06	2.77E+06	0.77 Y	1.20	1.20	0.2%	
PCB-66 23'44'-TeCB	29.34	6.11E+05	0.79 Y	1.10	1.06	-3.9%	
PCB-55 233'4'-TeCB	29.49	6.26E+05	0.78 Y	1.12	1.09	-3.1%	
PCB-56 233'4'-TeCB	29.93	6.53E+05	0.82 Y	1.11	1.13	2.0%	
PCB-60 2344'-TeCB	30.12	6.55E+05	0.79 Y	1.14	1.13	0.0%	
PCB-80 33'55'-TeCB	30.44	7.47E+05	0.82 Y	1.31	1.30	-1.4%	
PCB-79 33'45'-TeCB	31.77	7.25E+05	0.81 Y	1.31	1.26	-3.8%	
PCB-78 33'45'-TeCB	32.26	6.00E+05	0.82 Y	1.06	1.04	-2.0%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-96 22'366'-PeCB	26.03	3.51E+05	0.75 N	1.23	1.12	-8.6%	
PCB-103 22'45'6'-PeCB	27.72	4.14E+05	0.64 Y	0.93	0.91	-2.6%	
PCB-94 22'356'-PeCB	27.91	3.59E+05	0.70 Y	0.80	0.79	-1.5%	
PCB-95 22'35'6'-PeCB	28.29	4.07E+05	0.58 Y	0.87	0.89	3.0%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	7.64E+05	0.61 Y	0.86	0.84	-3.1%	
PCB-102 22'456'-PeCB	28.62	4.42E+05	0.64 Y	0.97	0.97	0.0%	
PCB-98 22'34'6'-PeCB	28.70	3.31E+05	0.63 Y	0.76	0.73	-4.3%	
PCB-88 22'346'-PeCB	29.00	4.40E+05	0.66 Y	0.80	0.96	20.8%	
PCB-91 22'34'6'-PeCB	29.06	3.45E+05	0.56 Y	0.94	0.76	-19.9%	
PCB-84 22'33'6'-PeCB	29.25	3.22E+05	0.60 Y	0.72	0.71	-1.3%	
PCB-89 22'346'-PeCB	29.67	3.31E+05	0.70 Y	0.76	0.73	-4.9%	
PCB-121 23'45'6'-PeCB	30.01	5.39E+05	0.64 Y	1.20	1.18	-1.7%	
PCB-92 22'355'-PeCB	30.33	3.73E+05	0.62 Y	0.82	0.82	-0.4%	
PCB-113/90/101 ...-PeCB	30.82	1.35E+06	0.62 Y	0.99	0.98	-0.3%	
PCB-83 22'33'5'-PeCB	31.26	3.50E+05	0.64 Y	0.71	0.77	7.3%	
PCB-99 22'44'5'-PeCB	31.36	4.00E+05	0.61 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.46	5.12E+05	0.65 Y	1.17	1.12	-4.0%	
PCB-108/119/86/97/125...-PeCB	31.80	2.69E+06	0.63 Y	0.98	0.98	0.2%	
PCB-117 234'56'-PeCB	32.33	4.64E+05	0.55 Y	1.14	1.02	-10.6%	
PCB-116/85 23456/22'344'-PeCB	32.43	9.28E+05	0.58 Y	0.94	1.02	8.1%	
PCB-110 233'4'6'-PeCB	32.54	4.96E+05	0.62 Y	1.12	1.09	-2.7%	

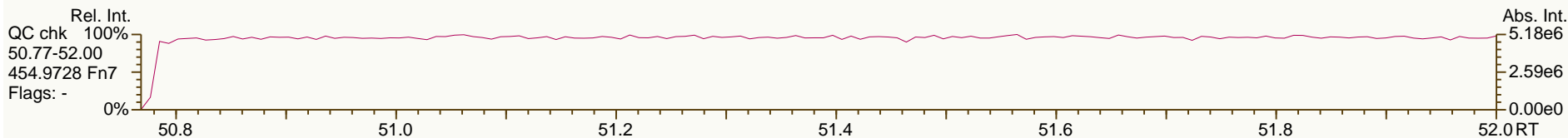
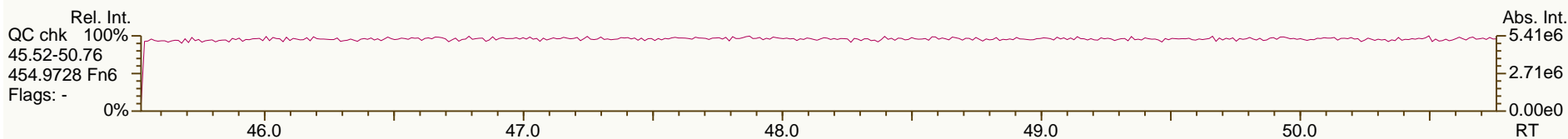
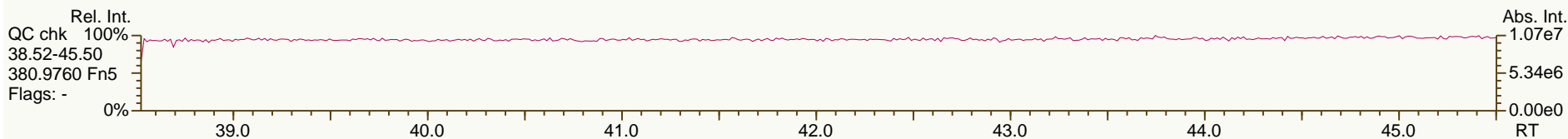
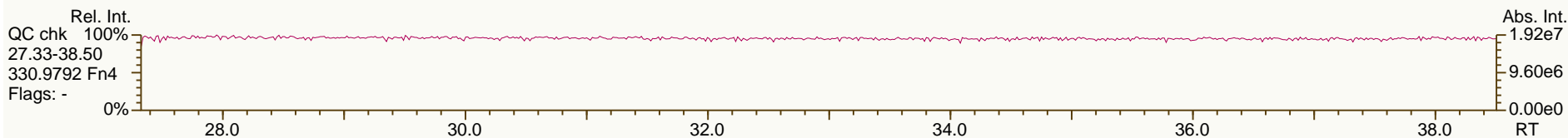
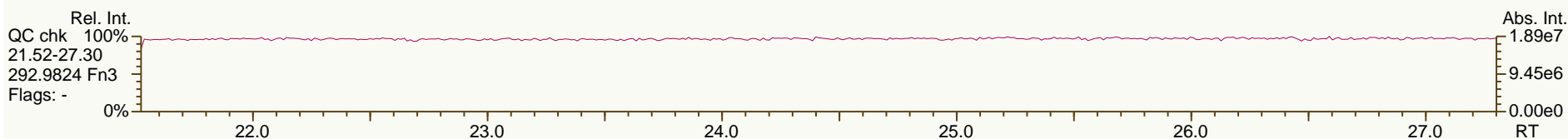
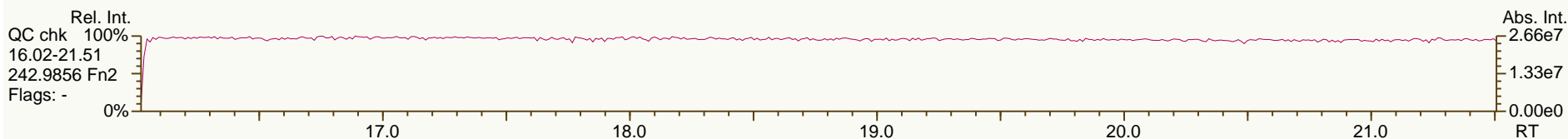
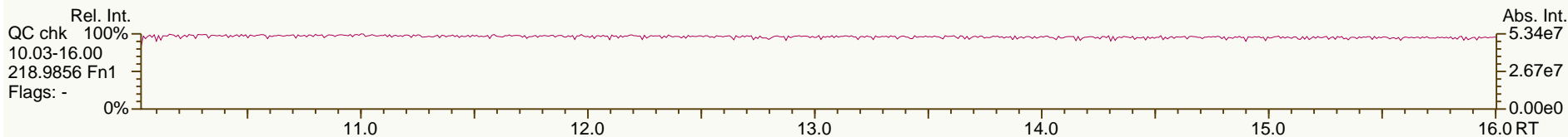
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	5.39E+05	0.59 Y	1.16	1.18	1.18	
PCB-82 22'33'4-PeCB	32.83	3.15E+05	0.59 Y	0.70	0.69	-1.1%	
PCB-111 233'55'-PeCB	33.14	5.61E+05	0.65 Y	1.22	1.23	0.6%	
PCB-120 23'455'-PeCB	33.54	5.37E+05	0.66 Y	1.21	1.18	-2.8%	
PCB-107/124 ...-PeCB	34.51	9.78E+05	0.64 Y	1.10	1.07	-2.4%	
PCB-109 233'46-PeCB	34.72	5.73E+05	0.63 Y	1.25	1.26	0.2%	
PCB-106 233'45-PeCB	34.94	5.10E+05	0.69 Y	1.11	1.12	1.0%	
PCB-122 233'4'5'-PeCB	35.40	4.64E+05	0.65 Y	0.99	0.97	-2.0%	
PCB-127 33'455'-PeCB	37.35	5.10E+05	0.62 Y	1.10	1.09	-0.8%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-152 22'3566'-HxCB	30.84	4.93E+05	1.27 Y	1.17	1.16	-1.3%	
PCB-150 22'34'66'-HxCB	30.98	5.01E+05	1.36 Y	1.18	1.18	0.1%	
PCB-136 22'33'66'-HxCB	31.29	4.28E+05	1.35 Y	1.07	1.01	-5.7%	
PCB-145 22'3466'-HxCB	31.56	4.79E+05	1.26 Y	1.11	1.13	0.9%	
PCB-148 22'34'56'-HxCB	32.83	3.33E+05	1.20 Y	1.18	1.14	-3.7%	
PCB-151/135 ...-HxCB	33.35	6.47E+05	1.21 Y	1.14	1.11	-2.9%	
PCB-154 22'44'56'-HxCB	33.56	4.03E+05	1.25 Y	1.34	1.38	2.8%	
PCB-144 22'345'6'-HxCB	33.83	3.56E+05	1.23 Y	1.18	1.22	3.1%	
PCB-147/149 ...-HxCB	34.13	6.56E+05	1.34 Y	1.18	1.12	-4.6%	
PCB-134 22'33'56-HxCB	34.30	2.84E+05	1.23 Y	0.92	0.97	5.0%	
PCB-143 22'3456'-HxCB	34.39	3.14E+05	1.30 Y	1.13	1.07	-4.7%	
PCB-139/140 ...-HxCB	34.65	7.00E+05	1.27 Y	1.21	1.20	-0.6%	
PCB-131 22'33'46-HxCB	34.82	2.97E+05	1.27 Y	1.03	1.02	-0.8%	
PCB-142 22'3456-HxCB	34.97	2.79E+05	1.25 Y	0.99	0.96	-3.4%	
PCB-132 22'33'46'-HxCB	35.21	3.02E+05	1.27 Y	1.03	1.03	0.2%	
PCB-133 22'33'55'-HxCB	35.61	3.31E+05	1.25 Y	1.13	1.13	0.1%	
PCB-165 233'55'6-HxCB	35.95	4.11E+05	1.27 Y	1.41	1.41	-0.2%	
PCB-146 22'34'55'-HxCB	36.16	3.49E+05	1.21 Y	1.20	1.19	-0.7%	
PCB-161 233'45'6-HxCB	36.28	4.37E+05	1.25 Y	1.52	1.50	-1.6%	
PCB-153/168 ...-HxCB	36.72	8.08E+05	1.27 Y	1.46	1.38	-5.0%	
PCB-141 22'3455'-HxCB	36.86	3.22E+05	1.27 Y	1.09	1.10	1.3%	
PCB-130 22'33'45'-HxCB	37.20	2.84E+05	1.16 Y	0.97	0.97	0.0%	
PCB-137 22'344'5-HxCB	37.41	3.47E+05	1.24 Y	1.16	1.19	2.0%	
PCB-164 233'4'5'6-HxCB	37.49	3.94E+05	1.20 Y	1.50	1.35	-10.0%	
PCB-163/138/129 ...-HxCB	37.78	1.03E+06	1.26 Y	1.19	1.18	-1.1%	
PCB-160 233'456-HxCB	37.92	4.35E+05	1.23 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.10	4.94E+05	1.30 Y	1.66	1.69	1.8%	
PCB-128/166 ...-HxCB	38.84	7.41E+05	1.33 Y	0.90	0.86	-4.7%	
PCB-159 233'455'-HxCB	39.65	4.73E+05	1.12 Y	1.11	1.09	-1.9%	
PCB-162 233'4'55'-HxCB	39.89	4.43E+05	1.33 Y	1.07	1.03	-4.3%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-179 22'33'566'-HpCB	35.84	2.95E+05	1.06 Y	1.16	1.19	2.3%	
PCB-184 22'344'66'-HpCB	36.31	2.83E+05	0.94 Y	1.13	1.14	1.1%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.00E+05	1.06 Y	1.23	1.21	-1.8%	
PCB-186 22'34566'-HpCB	37.00	2.82E+05	1.10 Y	1.13	1.14	1.0%	
PCB-178 22'33'55'6'-HpCB	38.13	2.19E+05	1.14 Y	0.84	0.88	4.6%	
PCB-175 22'33'45'6'-HpCB	38.68	2.90E+05	1.08 Y	1.07	1.02	-4.9%	
PCB-187 22'34'55'6'-HpCB	38.91	3.08E+05	1.11 Y	1.14	1.08	-4.8%	
PCB-182 22'344'56'-HpCB	39.09	3.10E+05	1.13 Y	1.18	1.09	-7.2%	
PCB-183 22'344'5'6'-HpCB	39.43	3.29E+05	1.06 Y	1.20	1.16	-4.0%	
PCB-185 22'3455'6'-HpCB	39.52	2.70E+05	1.04 Y	1.06	0.95	-10.4%	
PCB-174 22'33'456'-HpCB	39.63	2.63E+05	1.16 Y	0.99	0.93	-6.3%	
PCB-177 22'33'45'6'-HpCB	40.00	2.64E+05	1.06 Y	0.95	0.93	-2.5%	
PCB-181 22'344'56'-HpCB	40.35	2.93E+05	1.17 Y	1.09	1.03	-5.4%	
PCB-171/173 ...-HpCB	40.54	5.11E+05	1.09 Y	0.95	0.90	-5.3%	
PCB-172 22'33'455'-HpCB	41.89	2.73E+05	1.07 Y	0.99	0.96	-3.0%	
PCB-192 233'455'6'-HpCB	42.14	3.33E+05	1.10 Y	1.29	1.17	-9.0%	
PCB-180/193 ...-HpCB	42.41	7.15E+05	1.02 Y	1.26	1.26	-0.4%	
PCB-191 233'44'5'6'-HpCB	42.74	3.99E+05	1.10 Y	1.40	1.41	0.7%	
PCB-170 22'33'44'5'-HpCB	43.51	2.56E+05	1.10 Y	1.14	1.09	-4.3%	
PCB-190 233'44'56'-HpCB	43.97	3.84E+05	1.02 Y	1.66	1.63	-1.8%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-201 22'33'45'66'-OcCB	40.90	2.87E+05	1.04 N	1.22	1.16	-4.7%	
PCB-204 22'344'566'-OcCB	41.48	2.72E+05	0.90 Y	1.12	1.10	-1.4%	
PCB-197 22'33'44'66'-OcCB	41.67	3.10E+05	0.94 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.76	2.54E+05	1.01 Y	1.11	1.03	-7.2%	
PCB-198/199 ...-OcCB	44.08	3.97E+05	1.02 Y	0.81	0.80	-0.6%	
PCB-196 22'33'44'56'-OcCB	44.66	2.07E+05	0.90 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.83	2.16E+05	0.86 Y	0.87	0.87	0.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.51E+05	0.94 Y	0.77	0.79	3.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.77E+05	0.96 Y	0.84	0.88	3.8%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-207 22'33'44'566'-NoCB	46.54	3.55E+05	0.76 Y	1.19	1.20	1.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

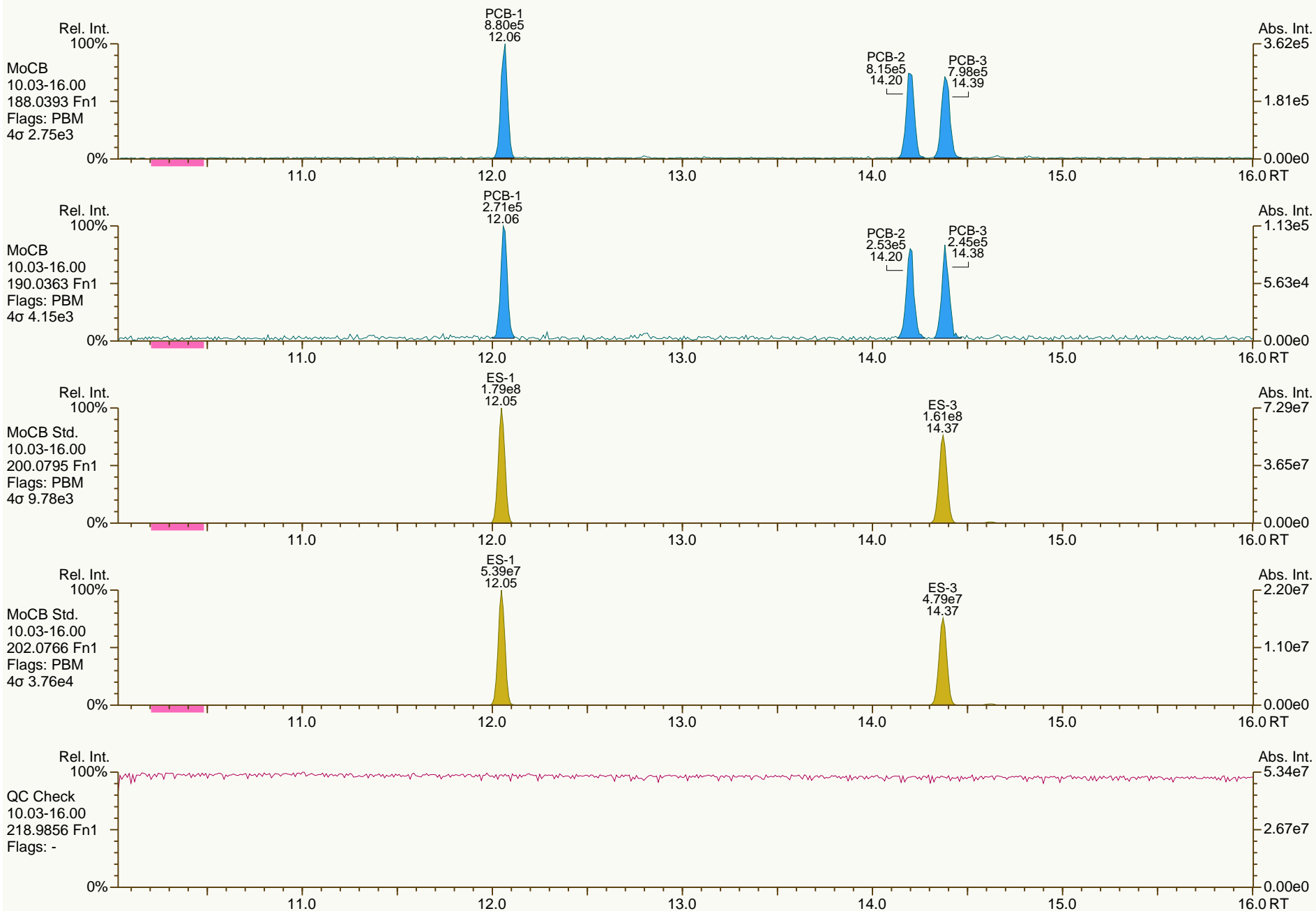
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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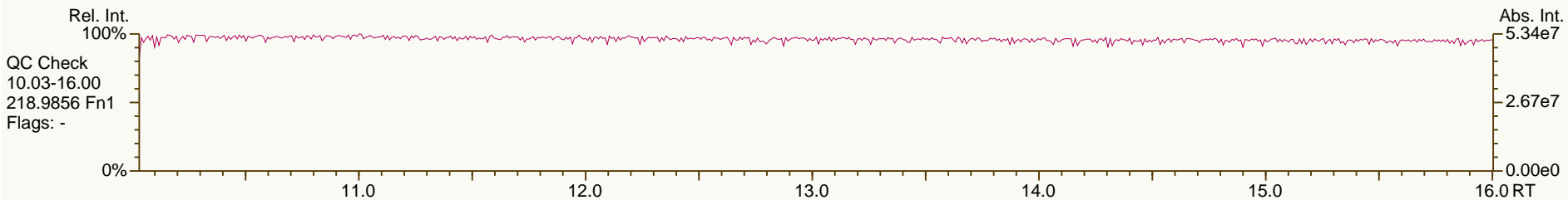
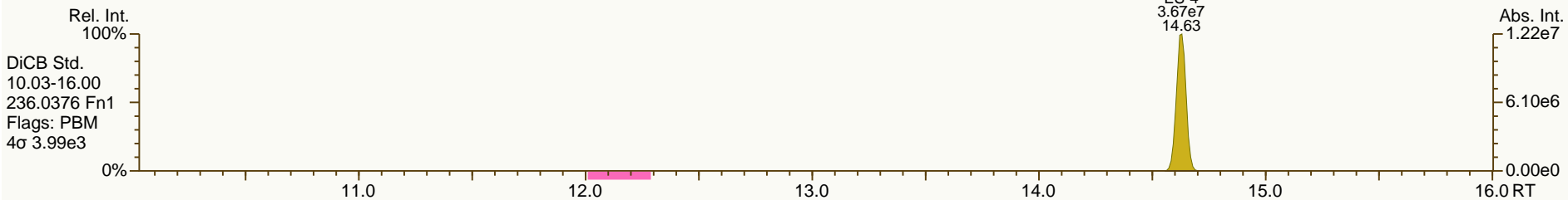
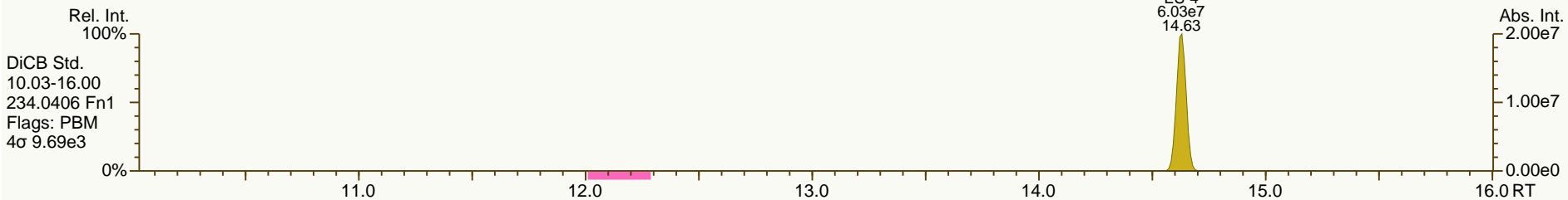
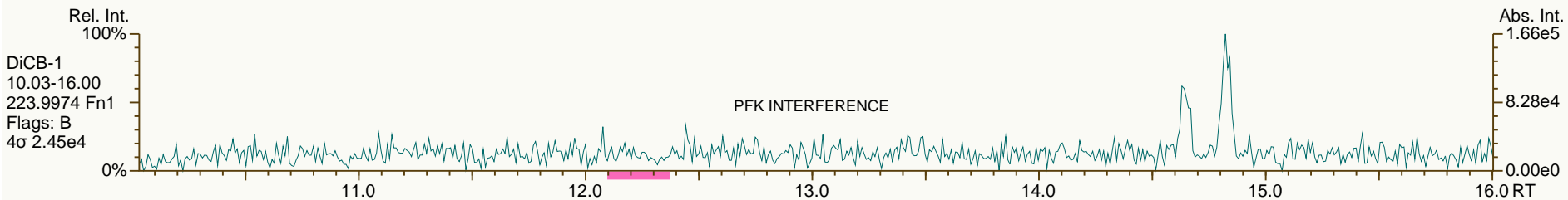
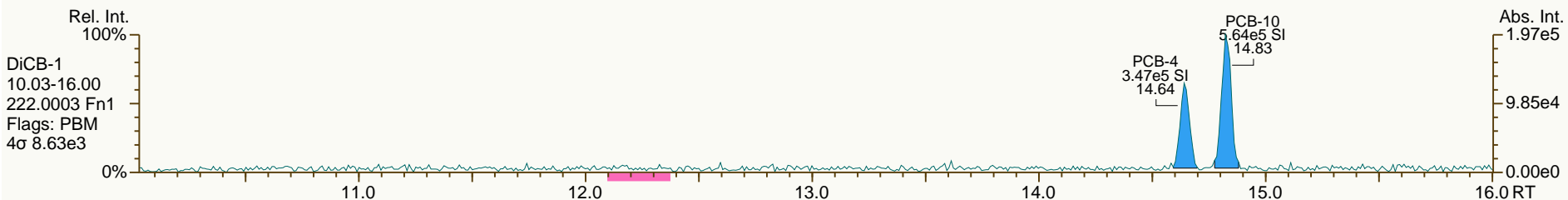
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Sample ID: SIL 13-79-6  
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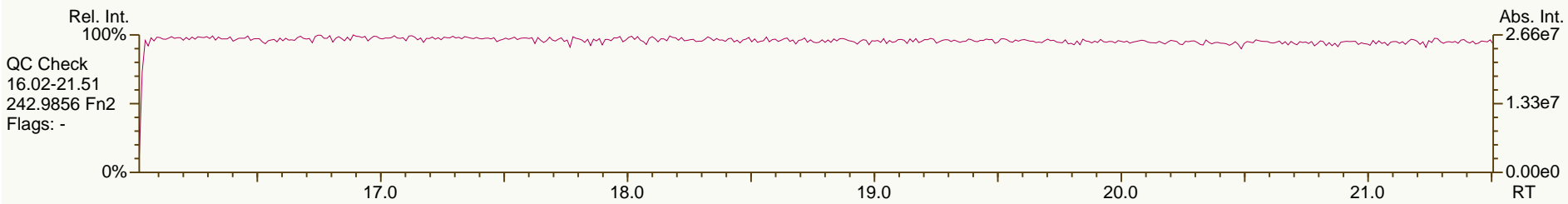
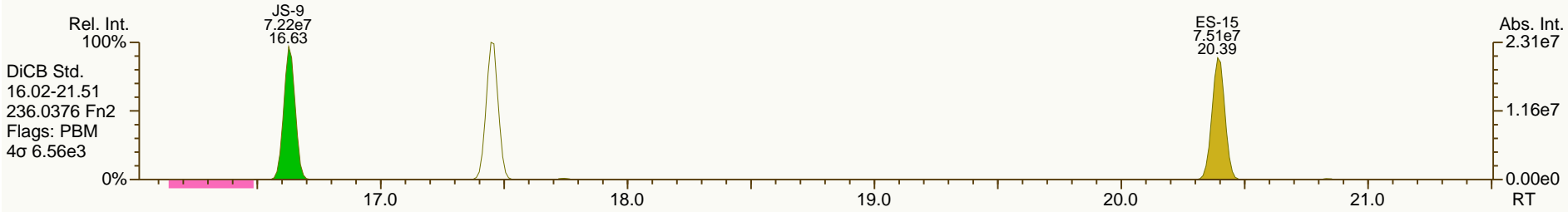
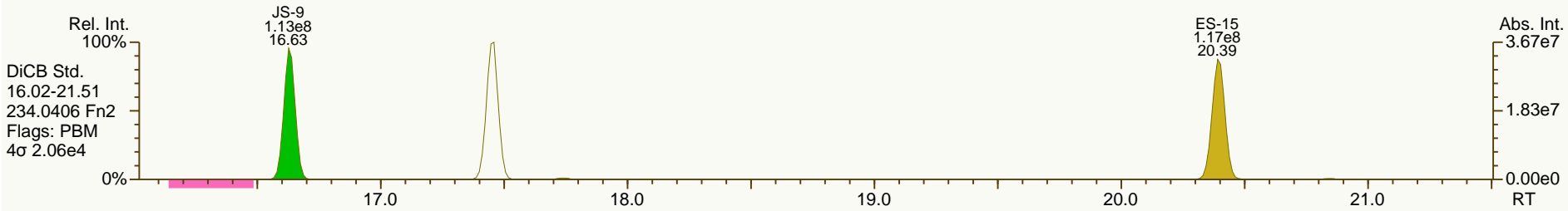
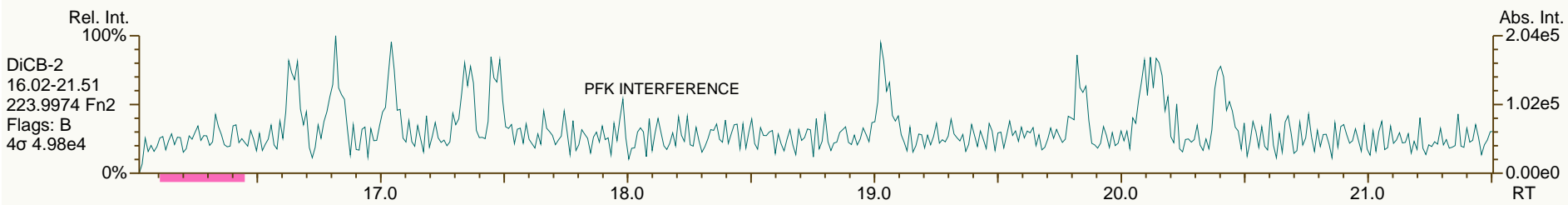
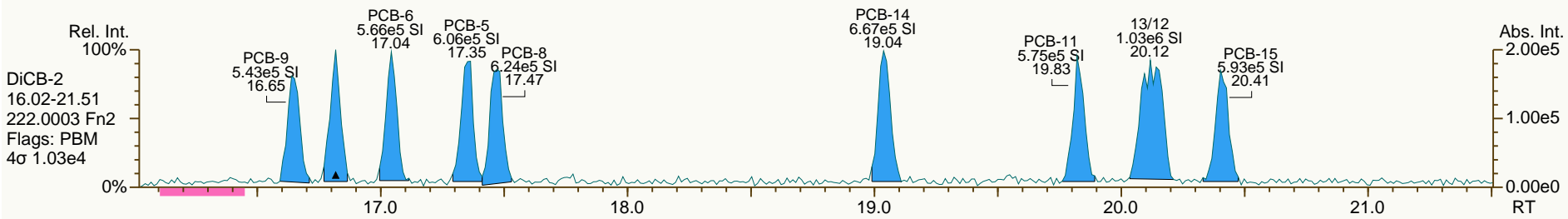
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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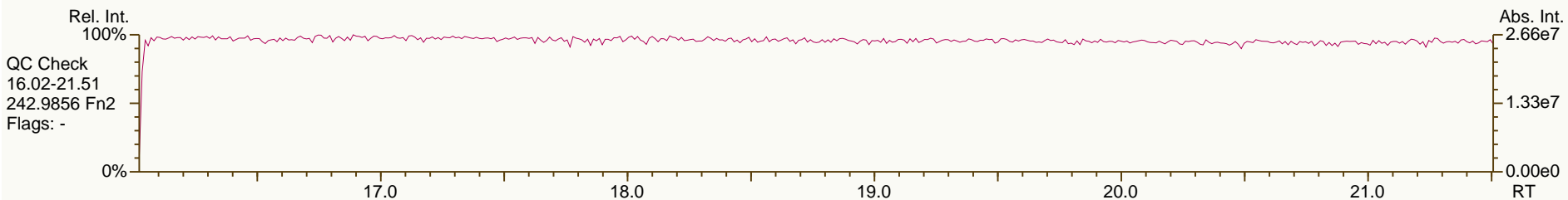
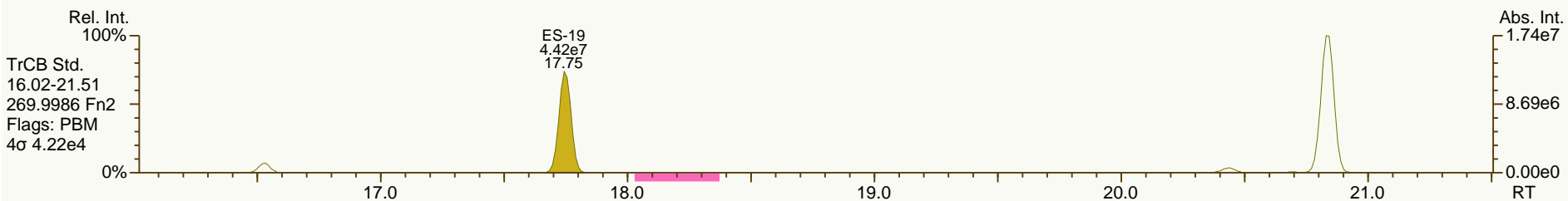
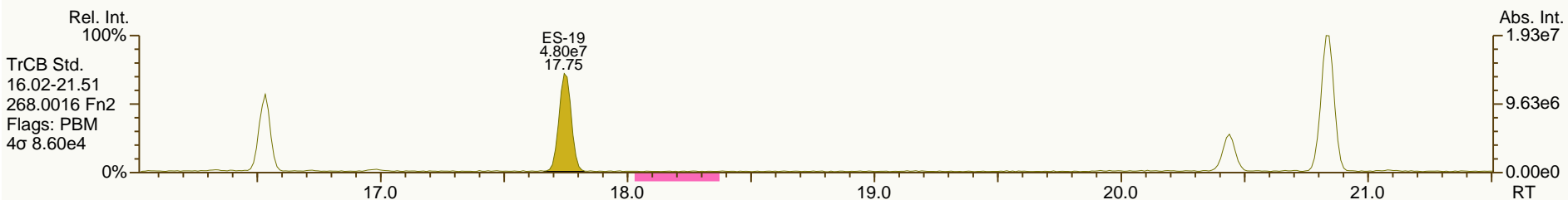
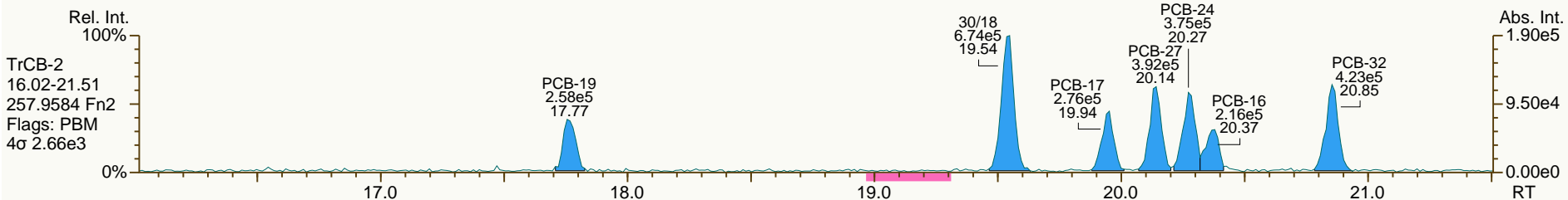
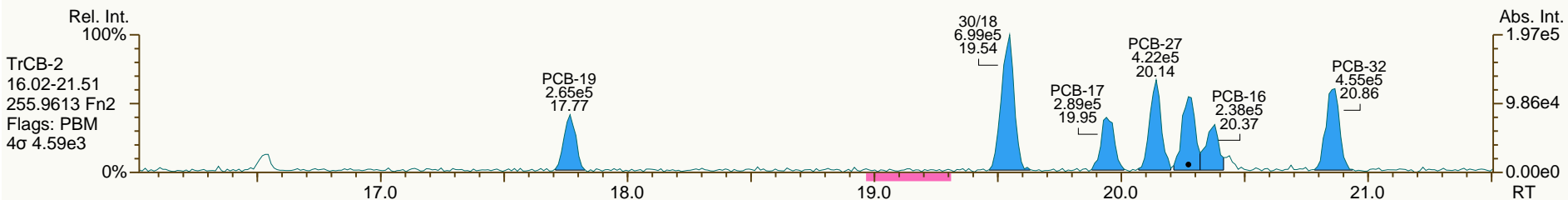




SGS-AP ID: CS0\_131220\_PCB\_XA  
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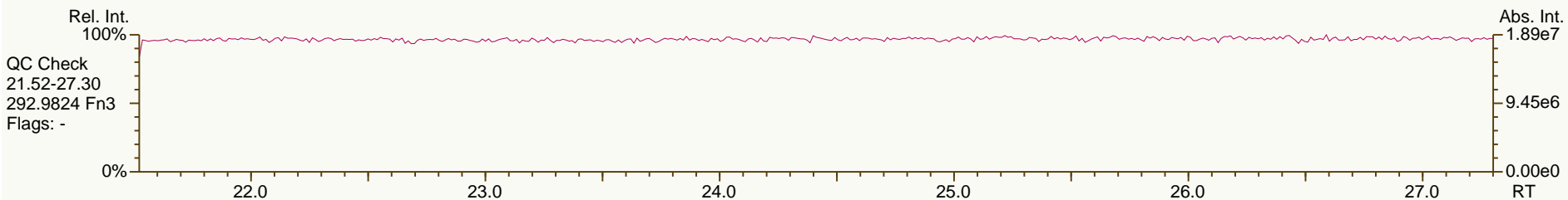
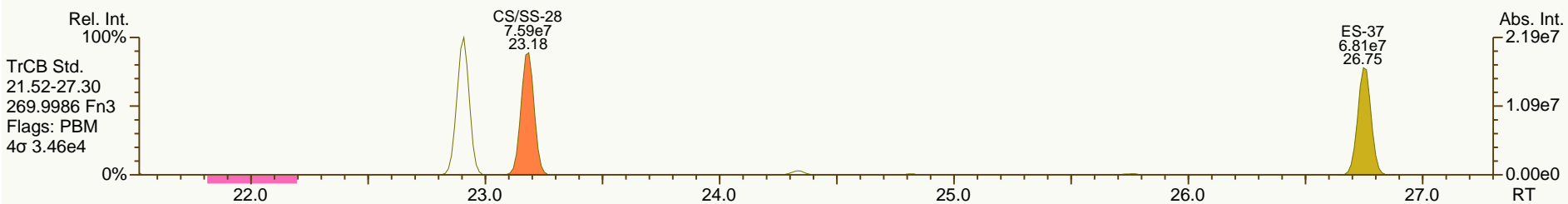
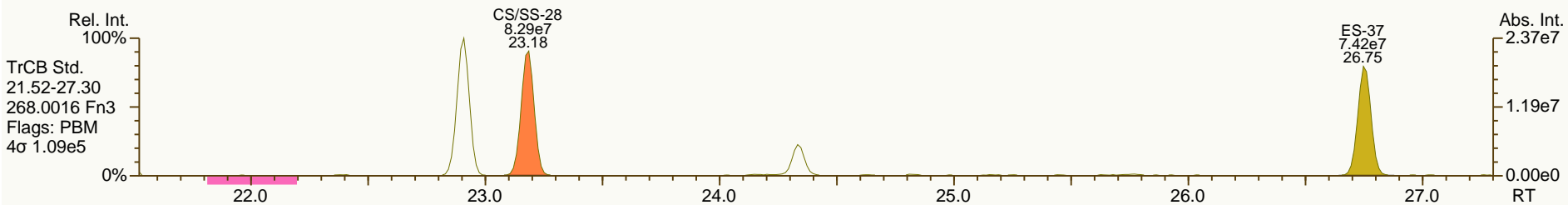
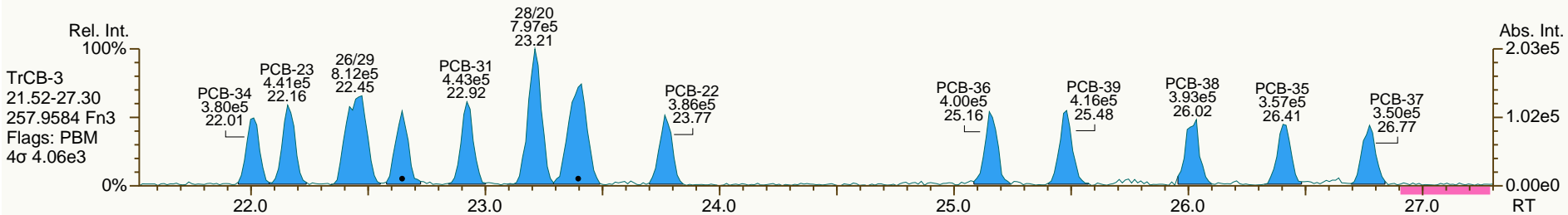
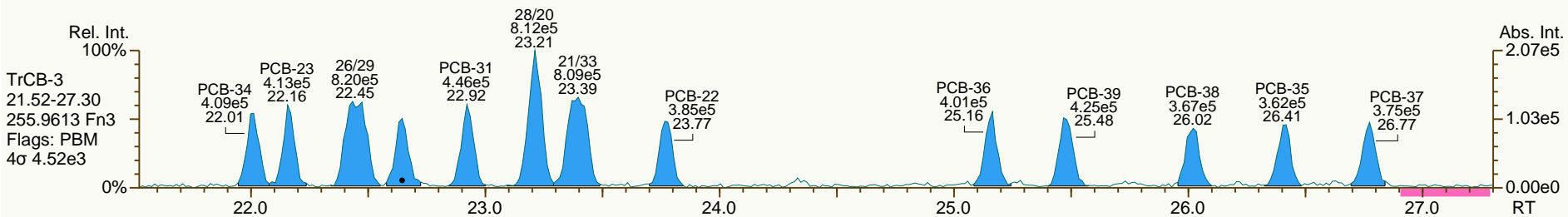
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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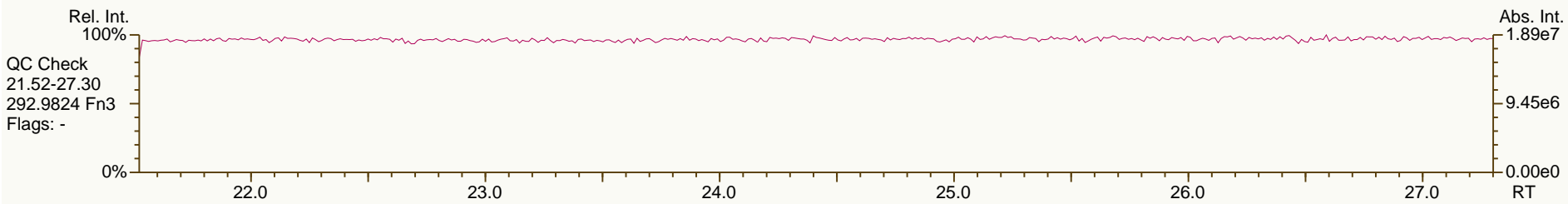
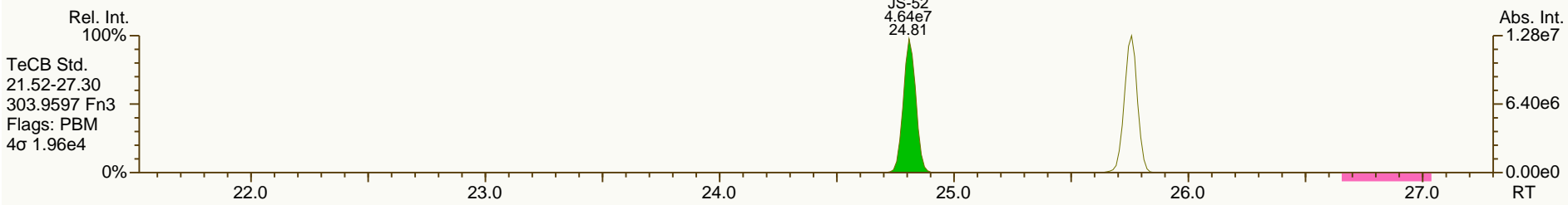
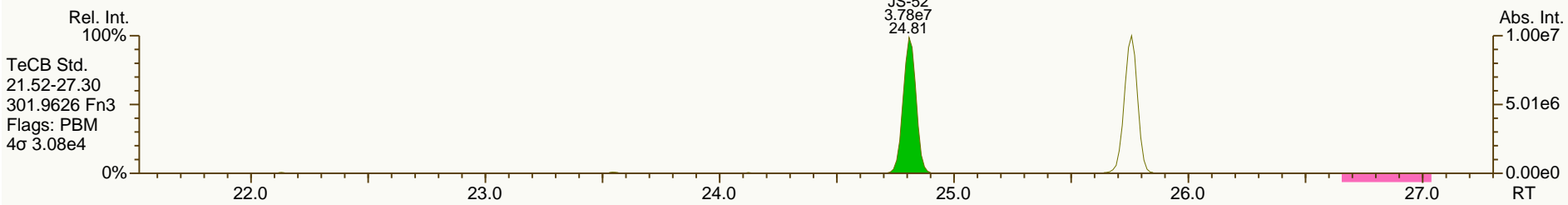
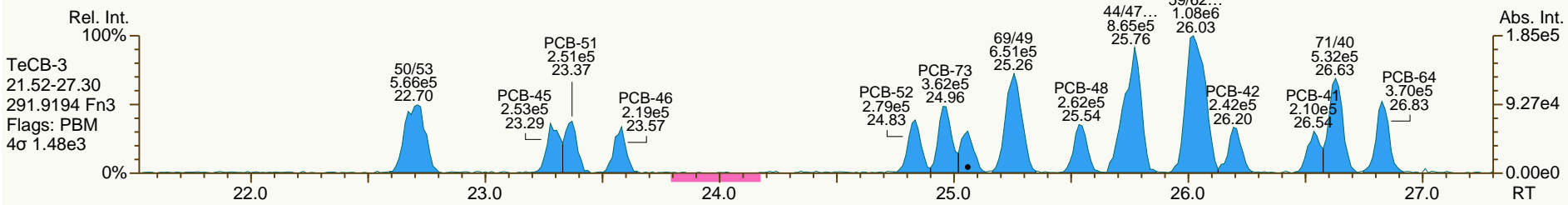
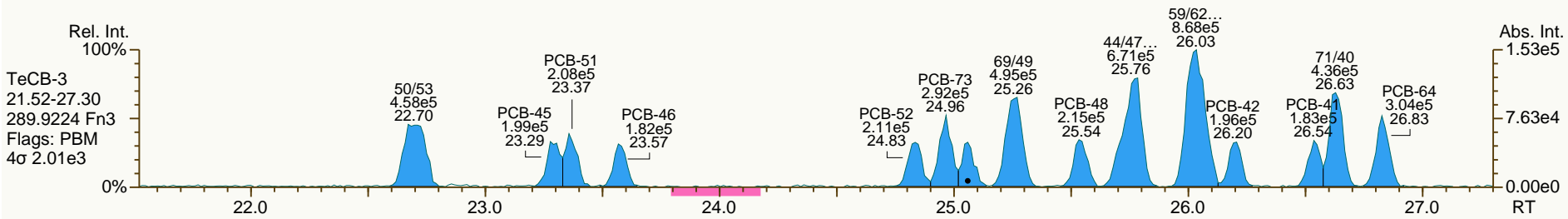
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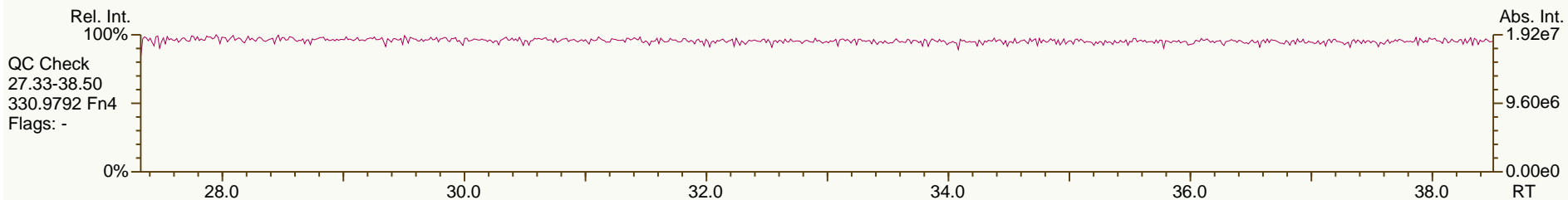
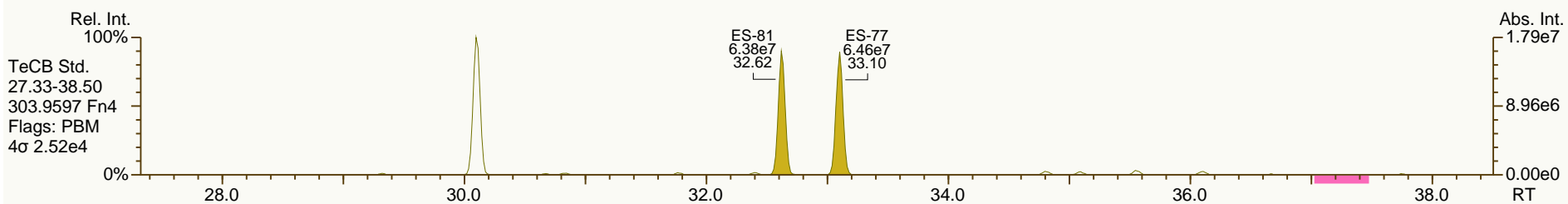
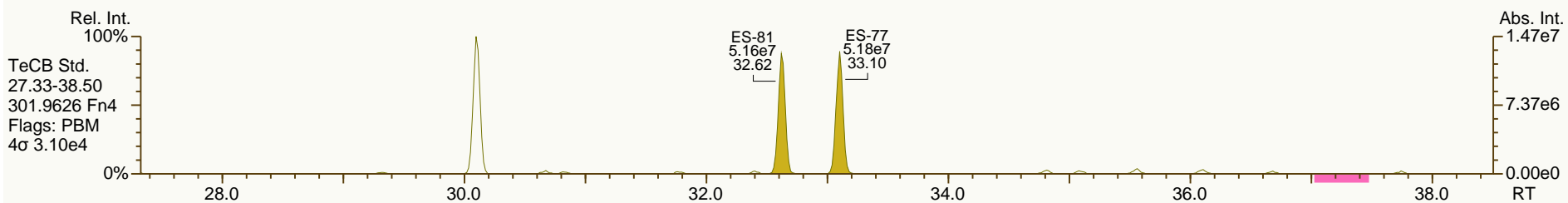
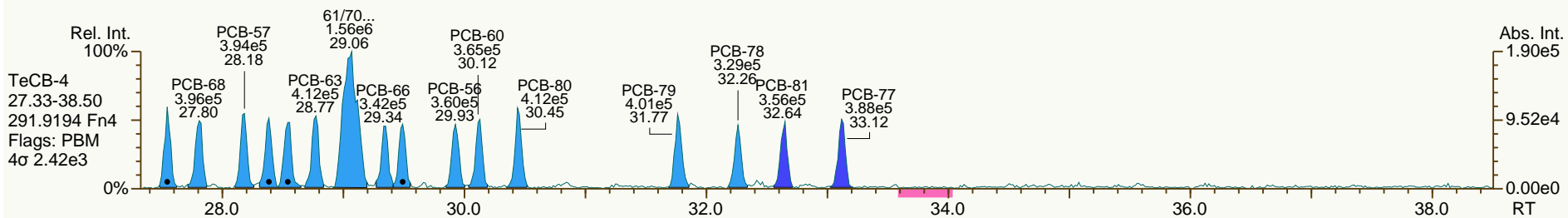
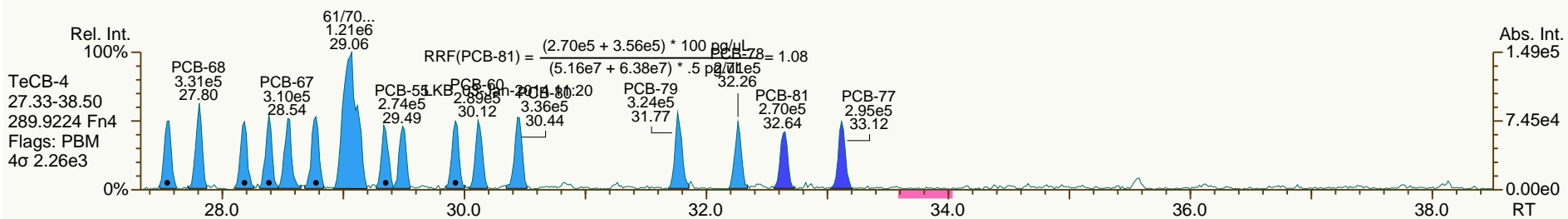
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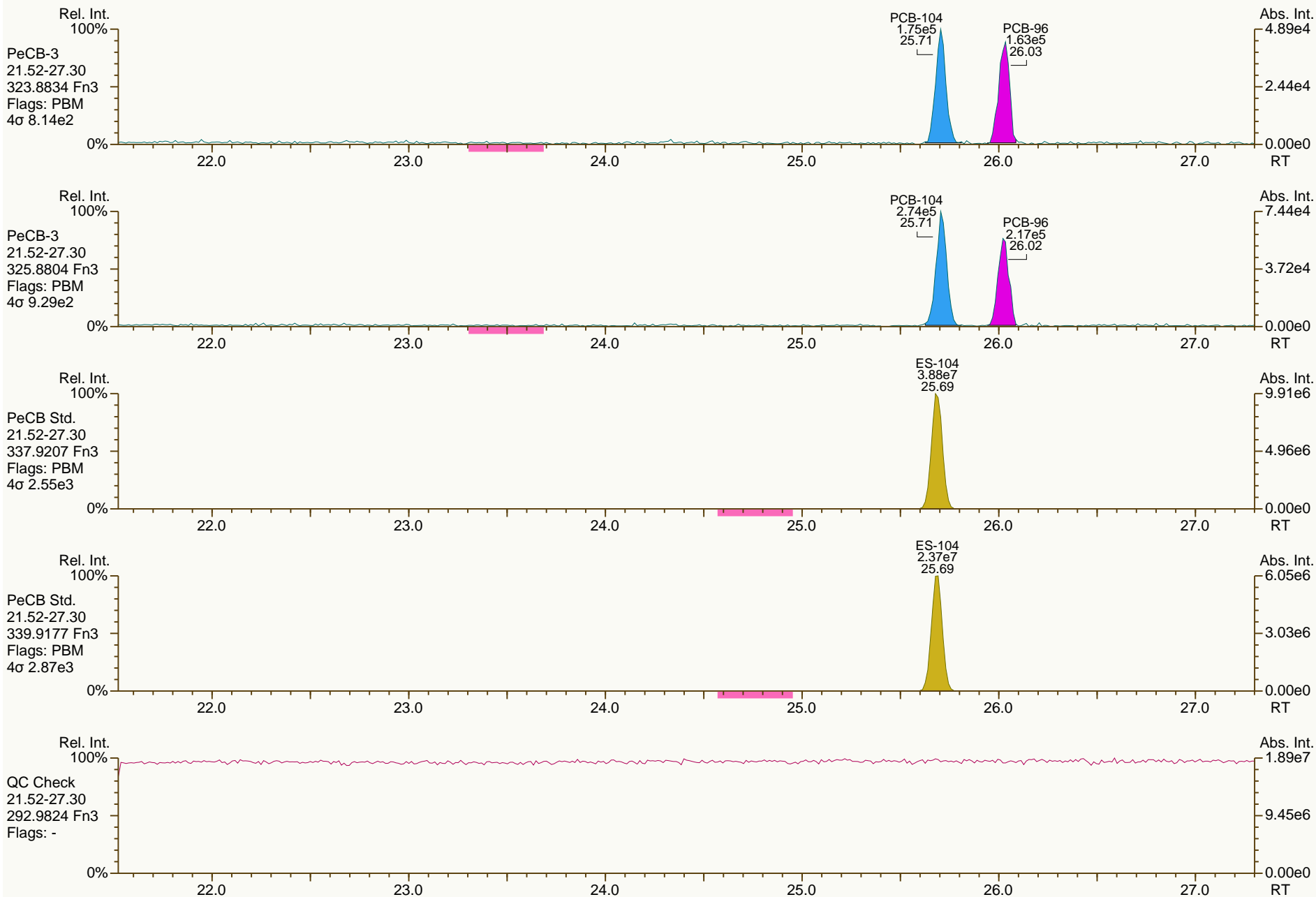
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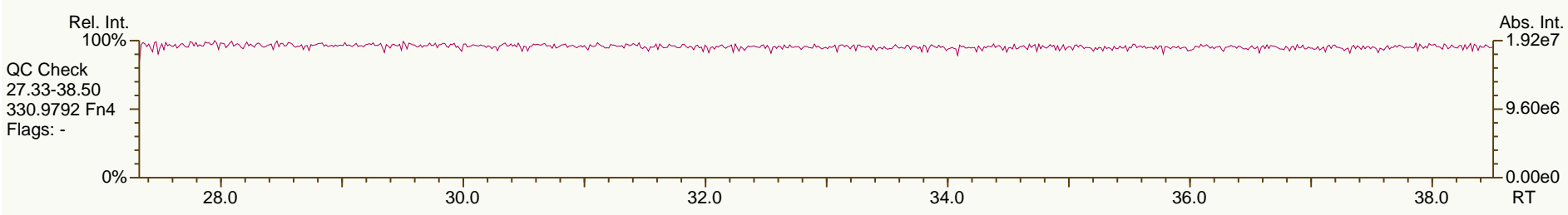
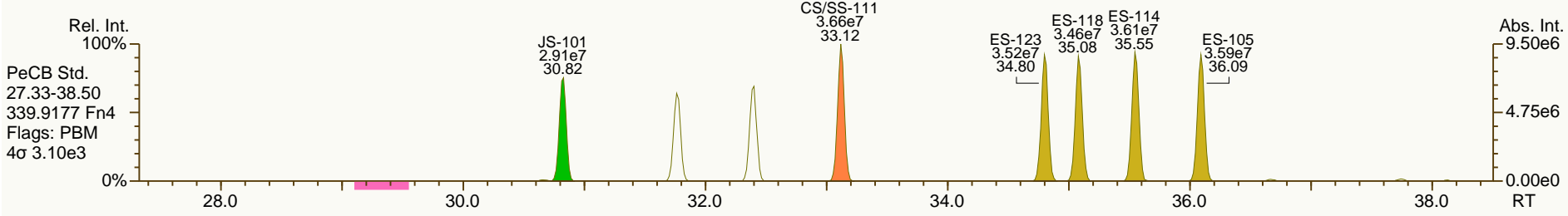
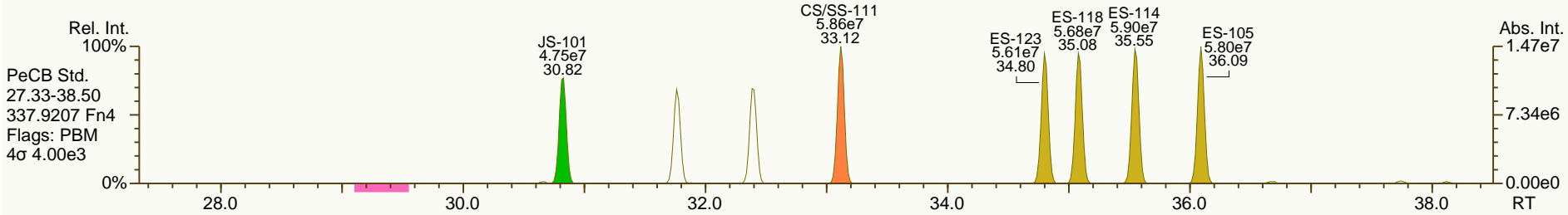
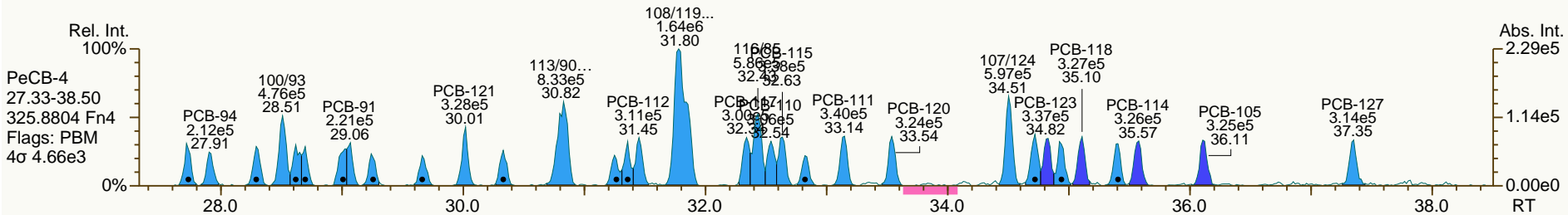
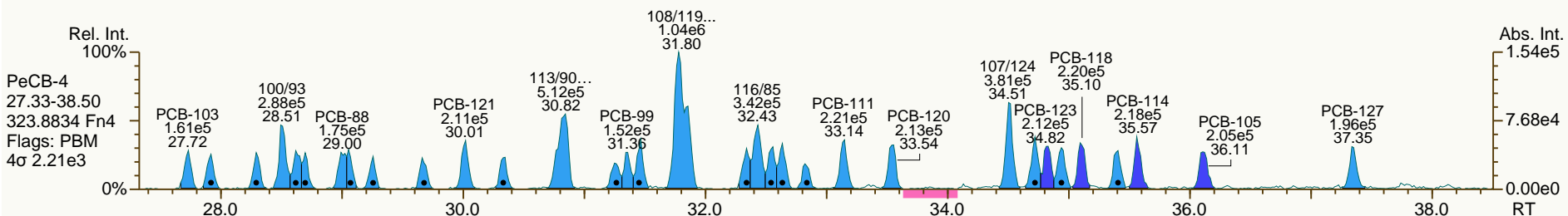
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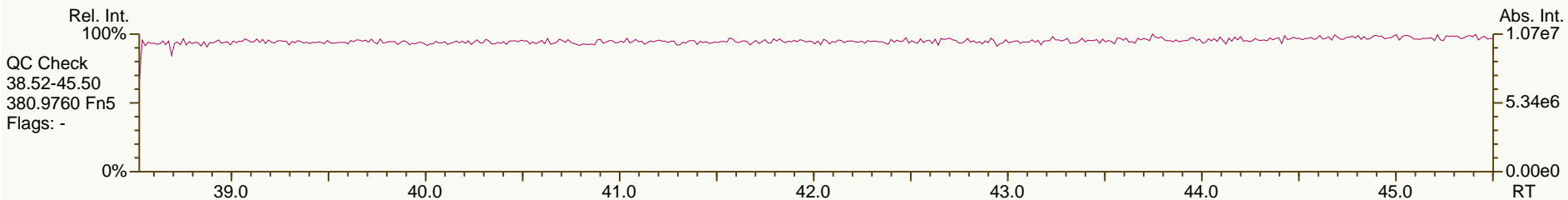
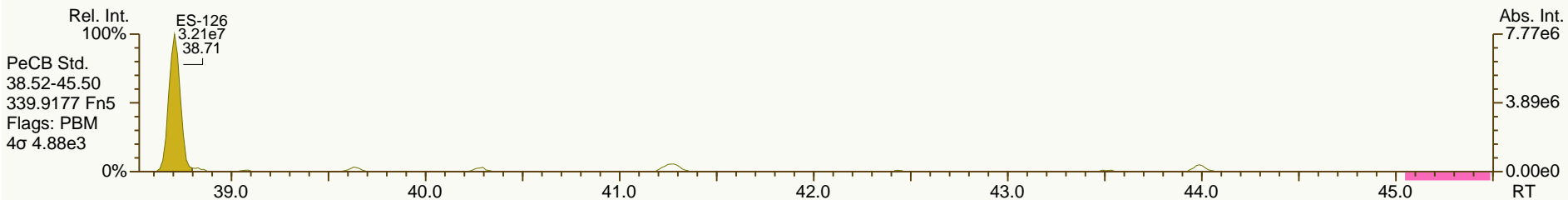
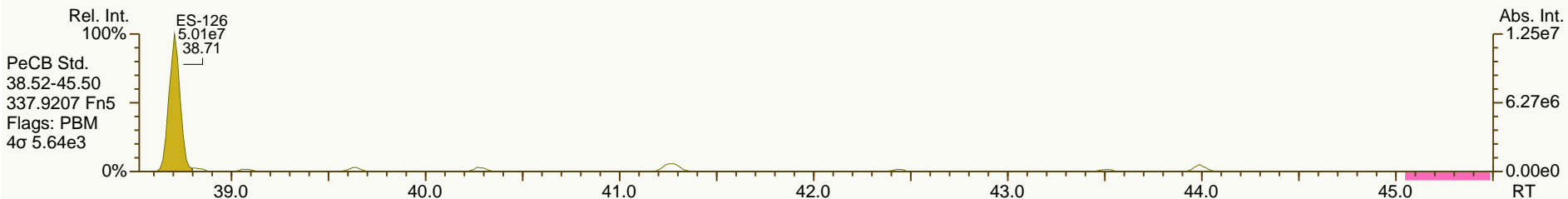
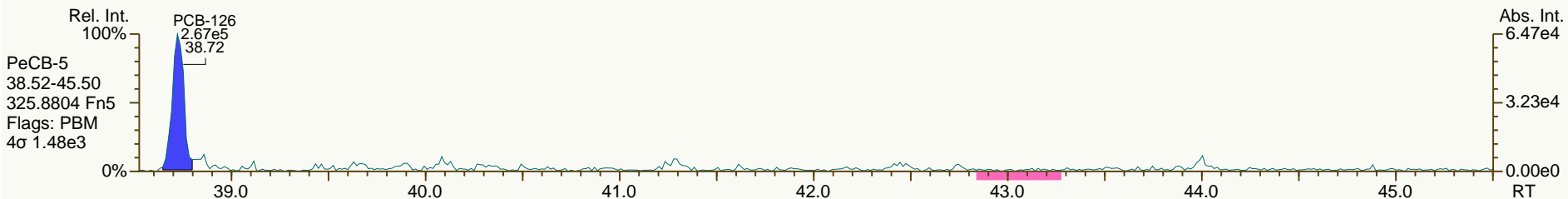
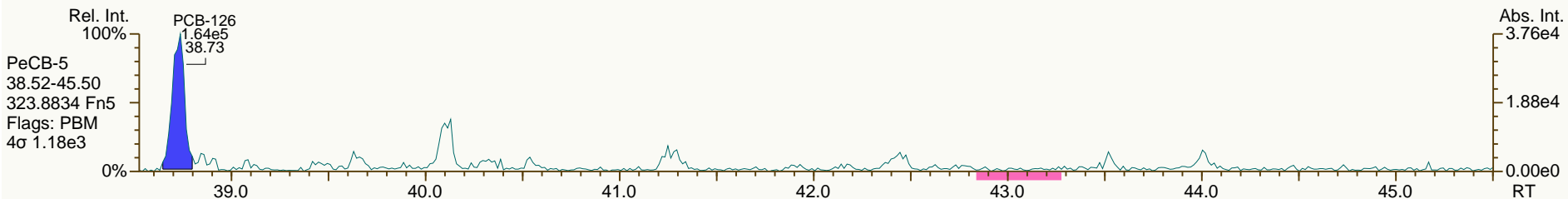
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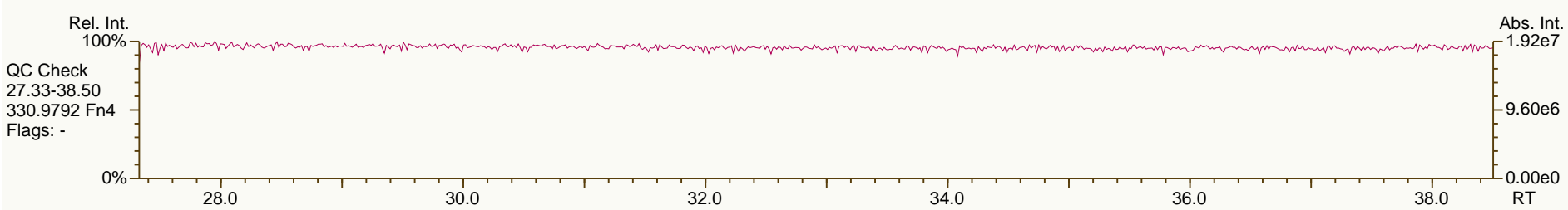
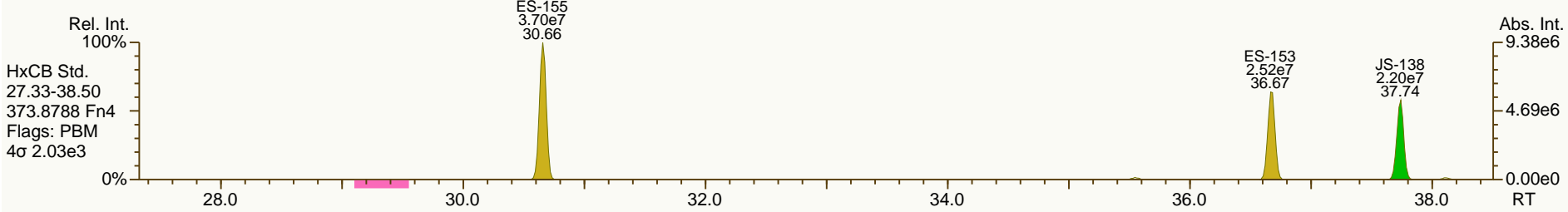
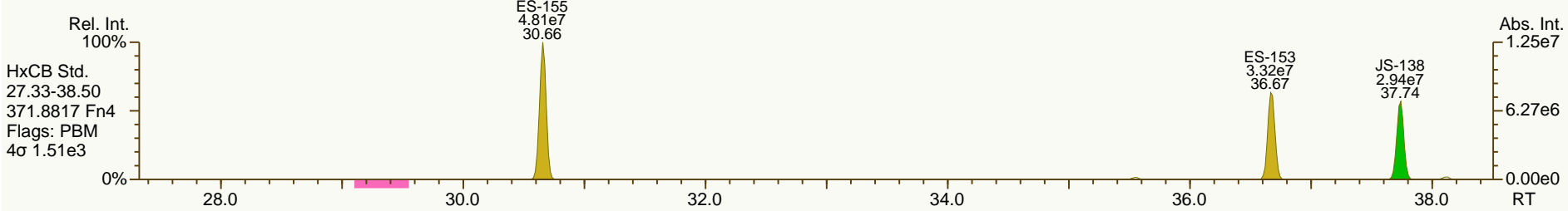
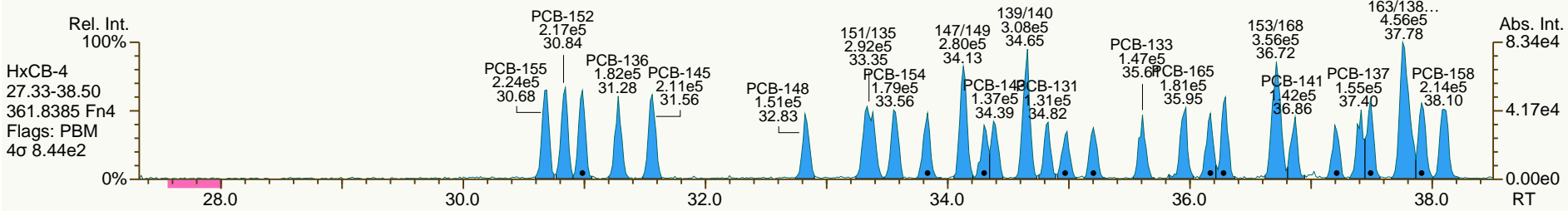
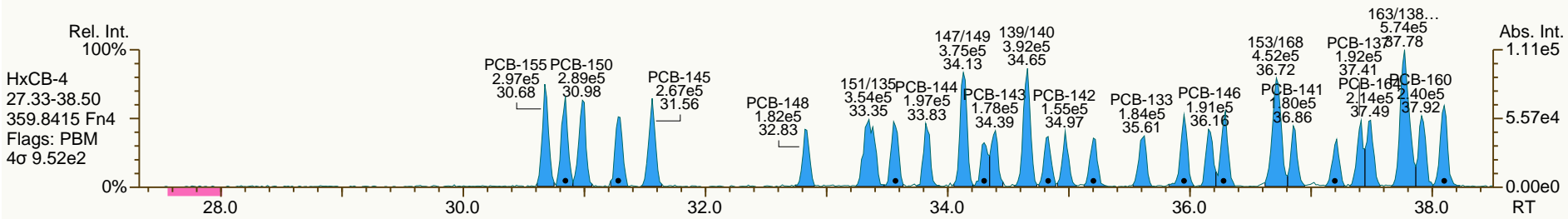




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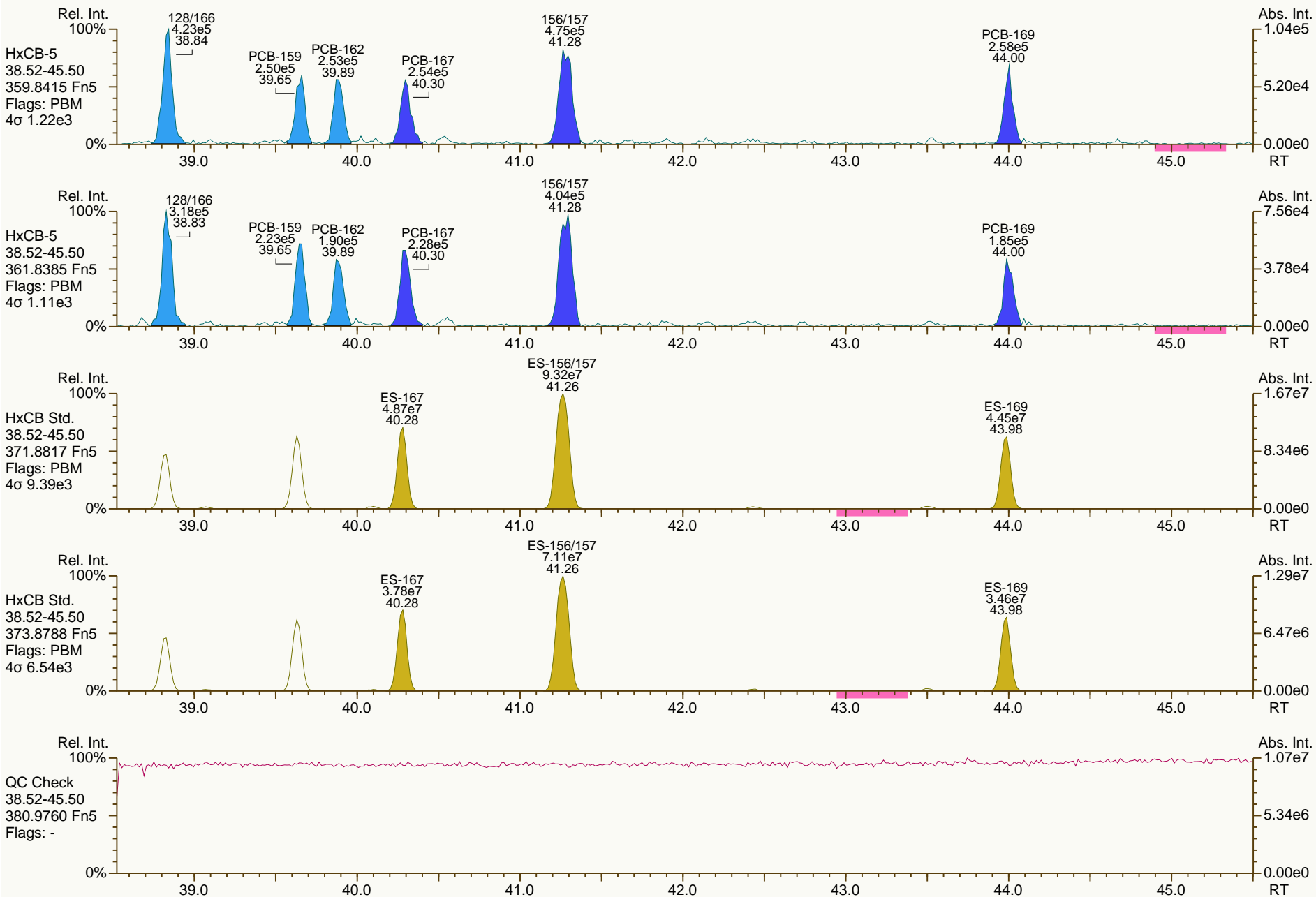
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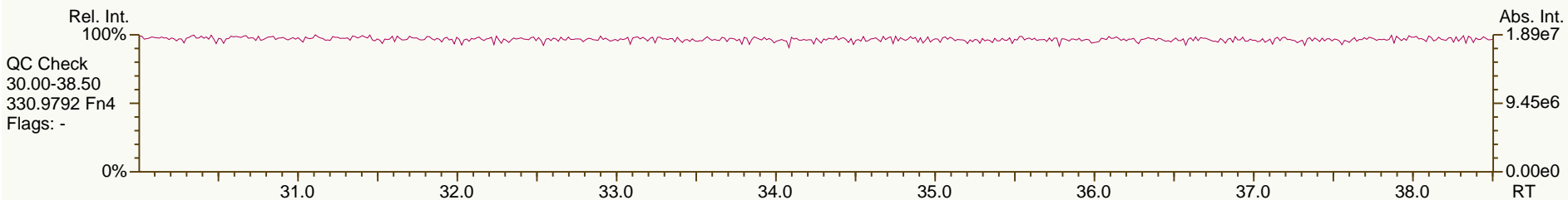
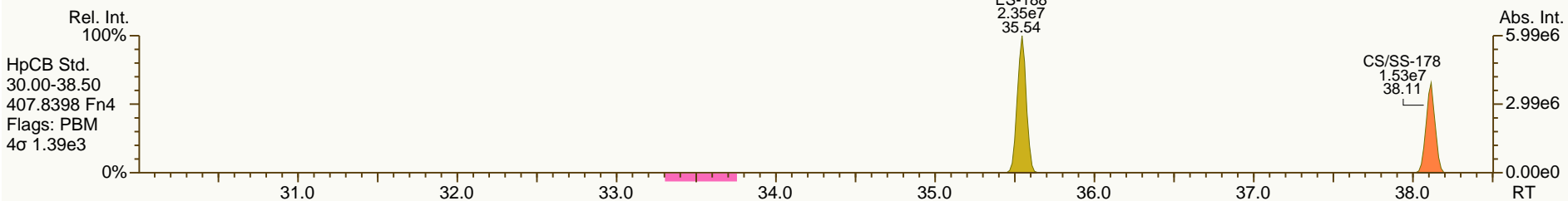
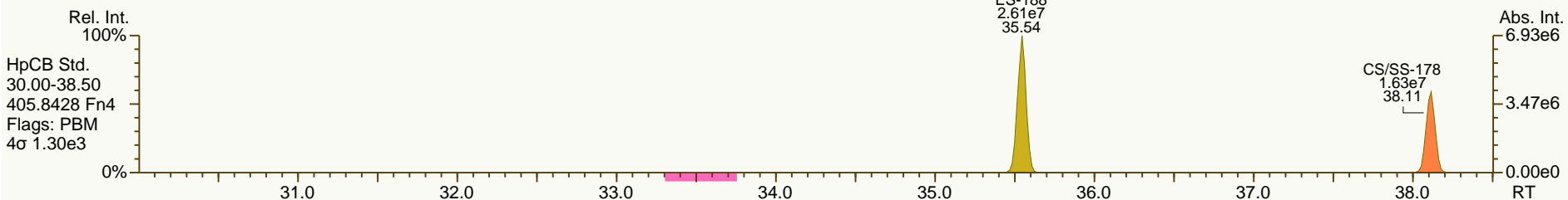
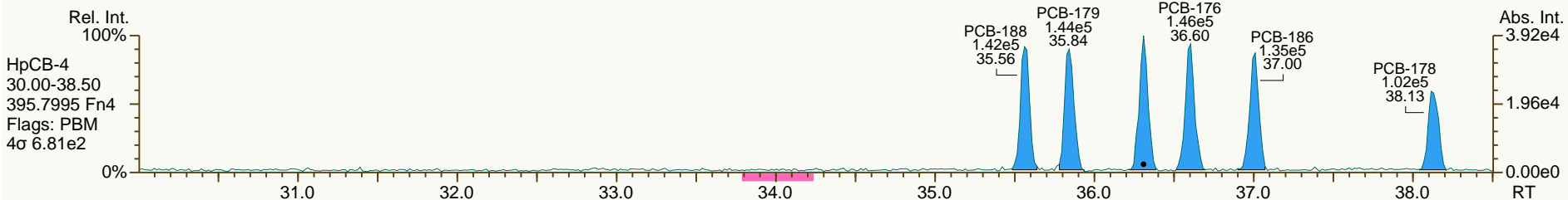
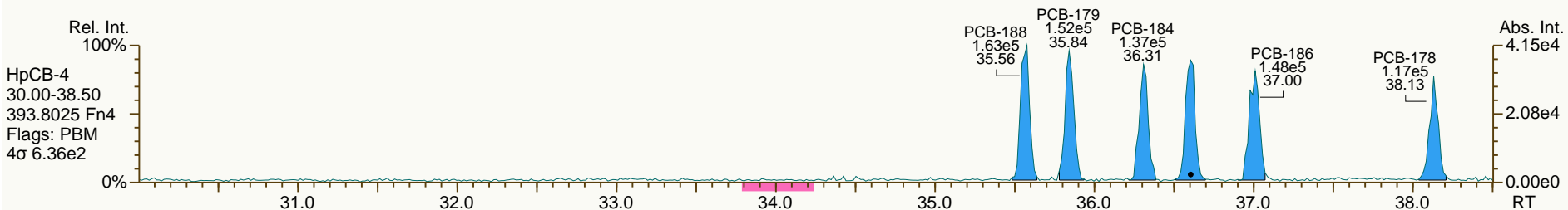
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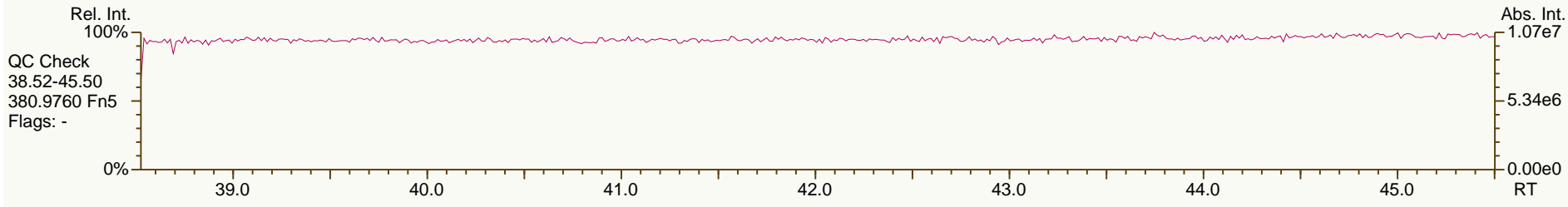
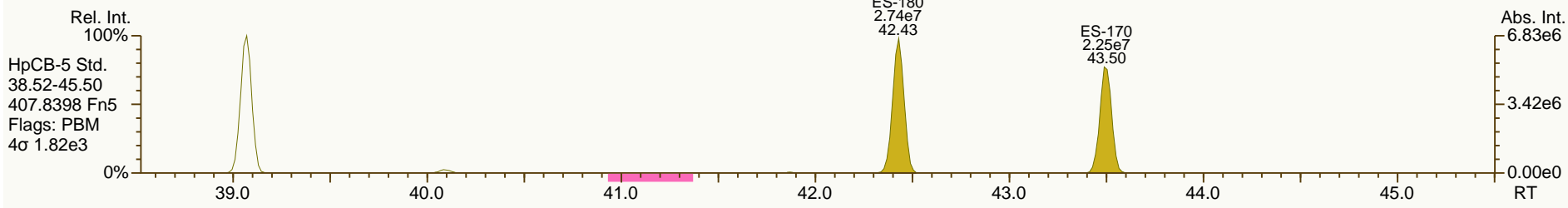
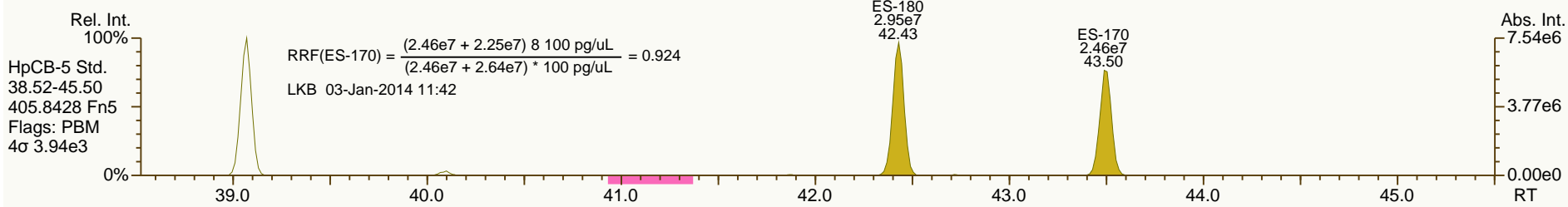
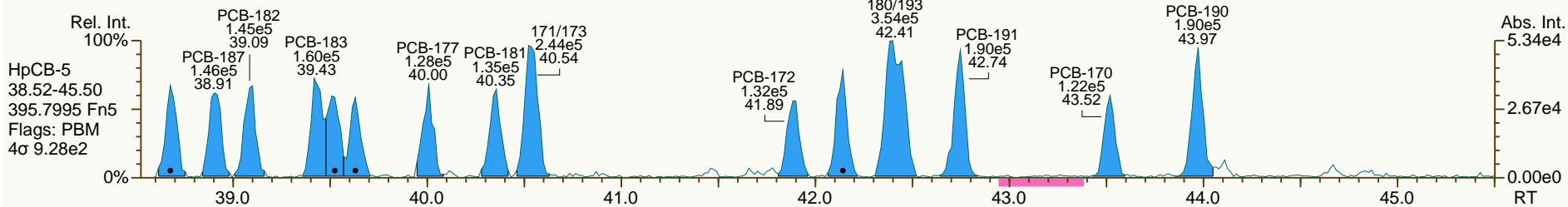
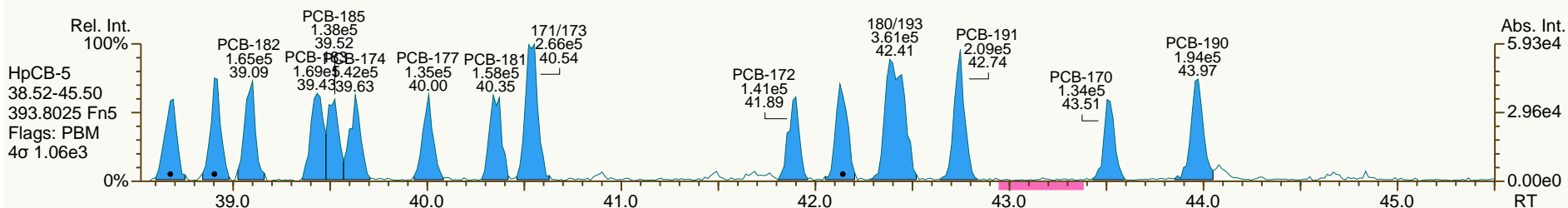
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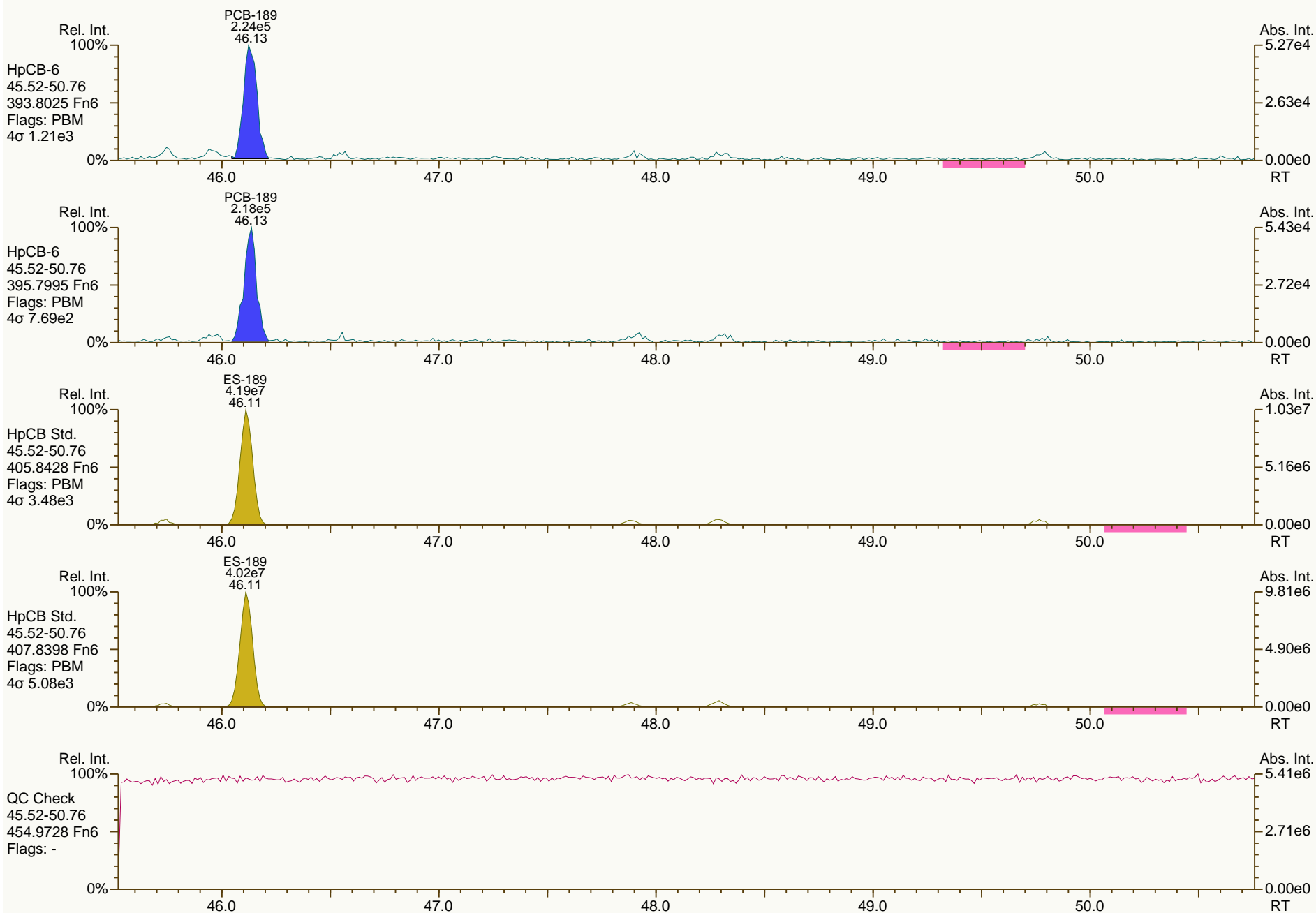
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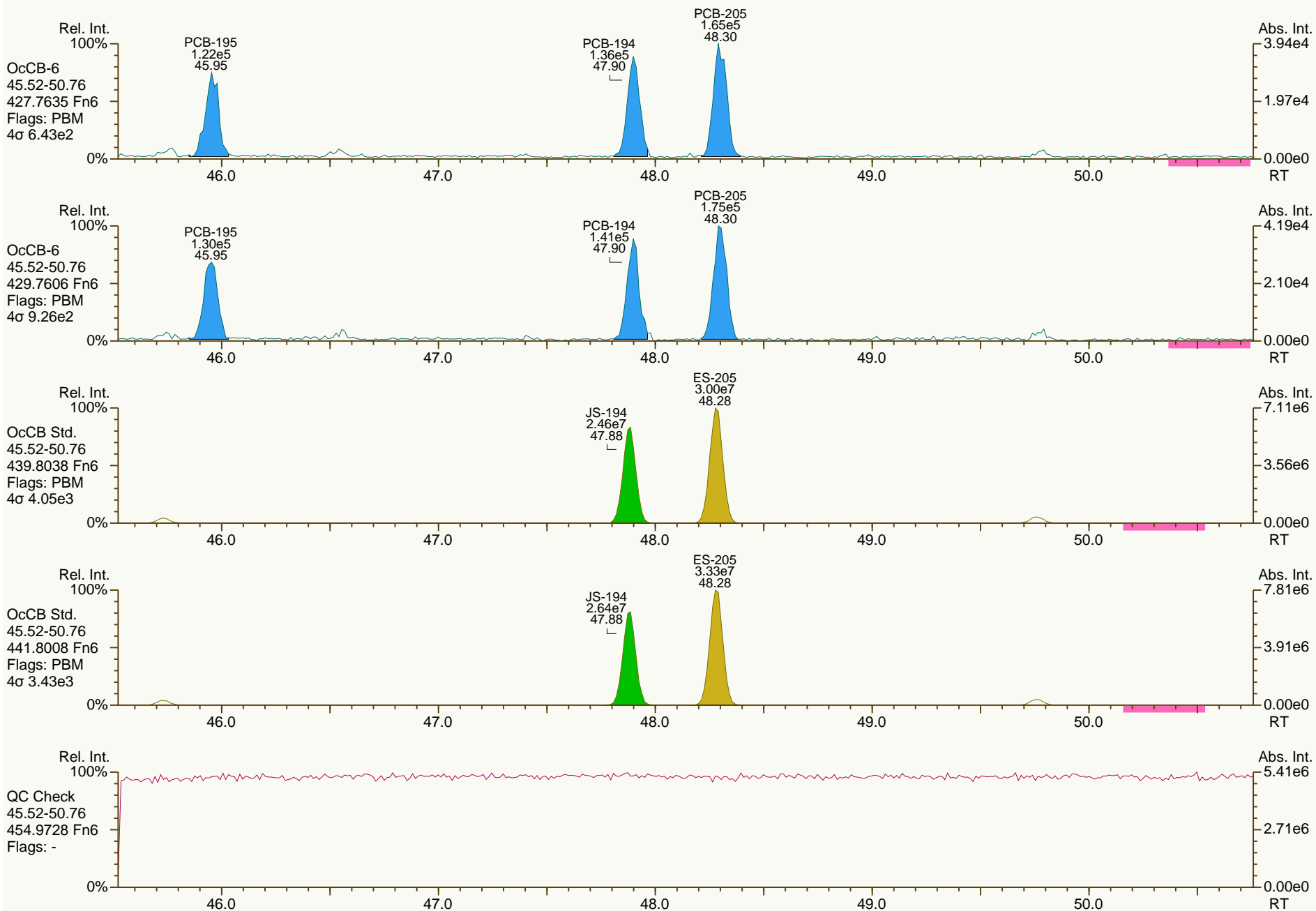
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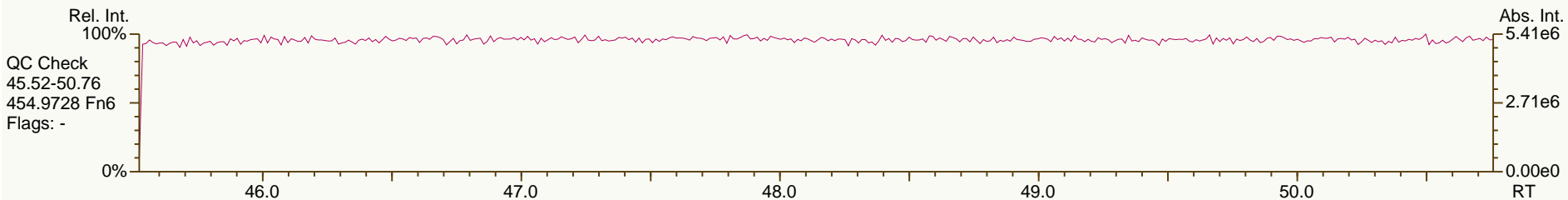
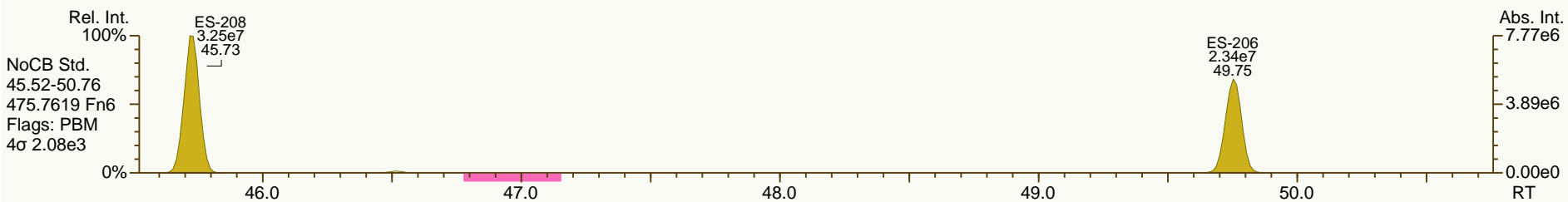
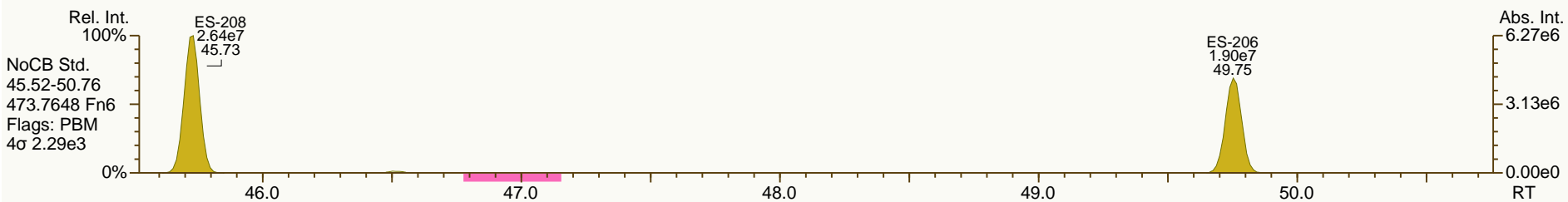
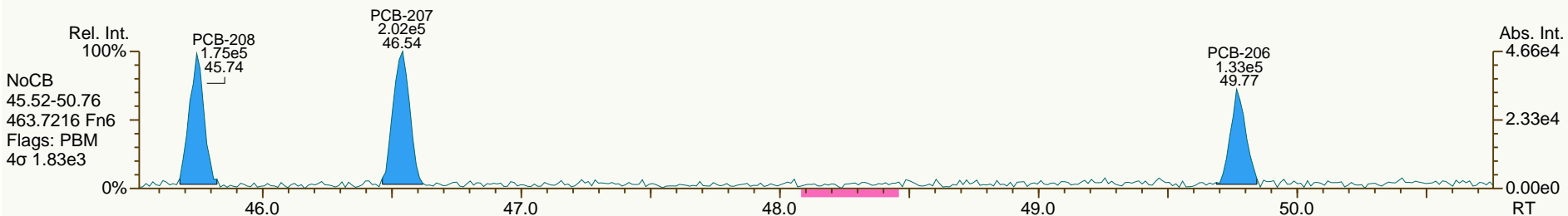
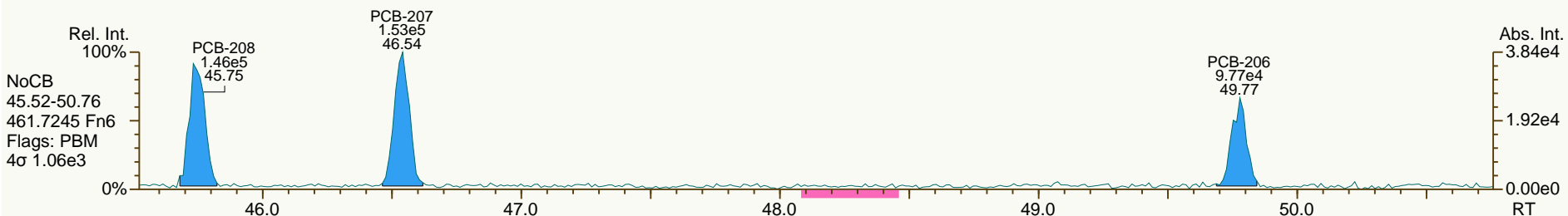
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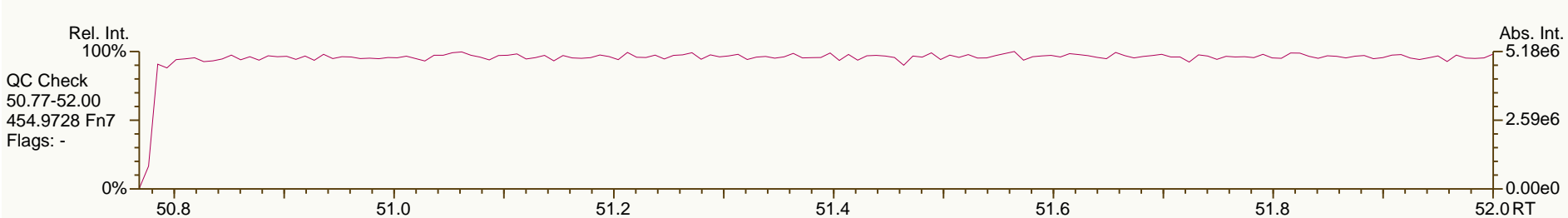
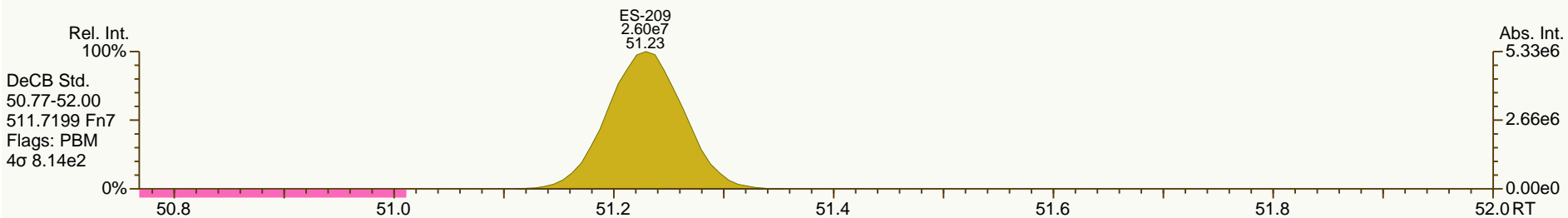
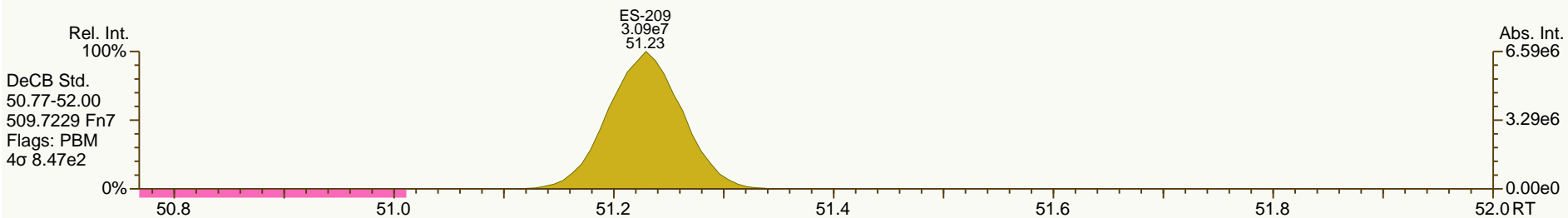
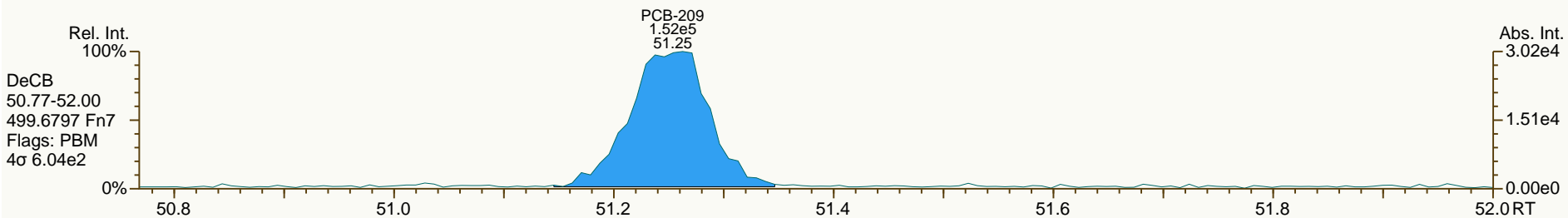
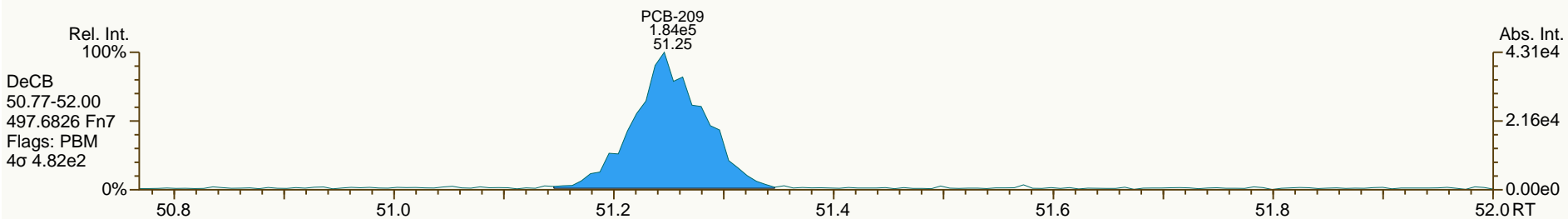




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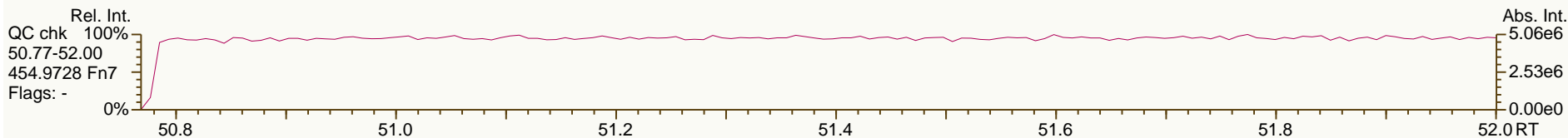
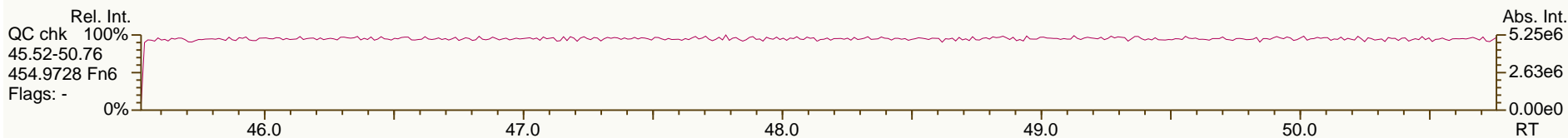
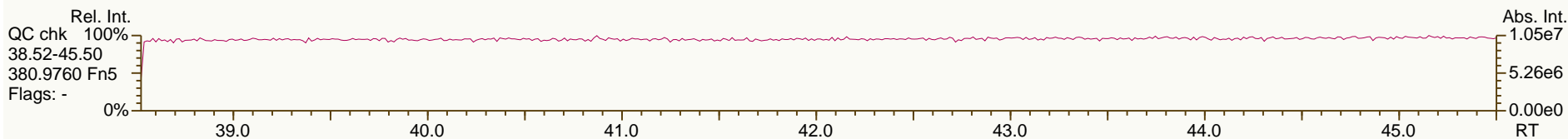
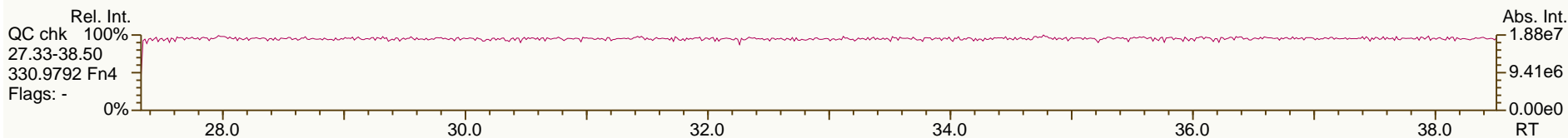
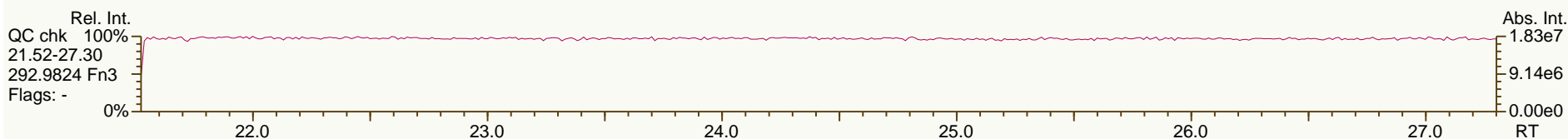
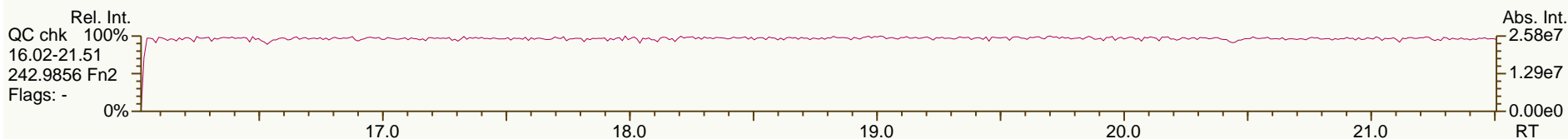
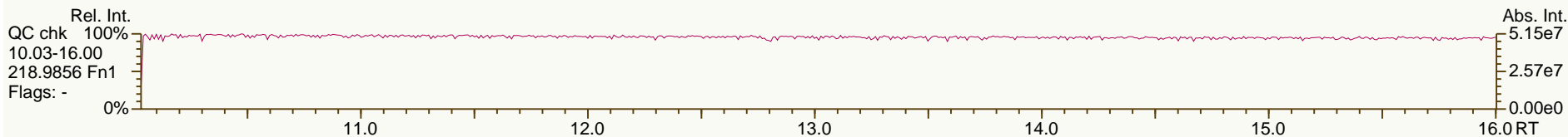
Acq: 20-Dec-2013 14:56:33  
 User: LKB Datafile: 131220X02



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 16:14							
Datafile:	131220X03							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	33.12	1.44E+06	0.79 Y	1.15	1.11	-3.6%		
PCB-81 344'5'-TeCB	32.64	1.43E+06	0.81 Y	1.12	1.13	0.8%		
PCB-105 233'44'-PeCB	36.12	1.07E+06	0.63 Y	1.11	1.02	-7.9%		
PCB-114 2344'5'-PeCB	35.58	1.23E+06	0.64 Y	1.20	1.16	-3.3%		
PCB-118 23'44'5'-PeCB	35.11	1.13E+06	0.62 Y	1.19	1.13	-5.3%		
PCB-123 23'44'5'-PeCB	34.82	1.24E+06	0.61 Y	1.21	1.20	-1.2%		
PCB-126 33'44'5'-PeCB	38.73	9.39E+05	0.63 Y	1.11	1.07	-3.3%		
PCB-156/157 ...-HxCB	41.29	1.93E+06	1.26 Y	1.10	1.07	-2.5%		
PCB-167 23'44'55'-HxCB	40.30	1.07E+06	1.25 Y	1.16	1.13	-2.8%		
PCB-169 33'44'55'-HxCB	44.01	9.43E+05	1.29 Y	1.12	1.07	-4.8%		
PCB-189 233'44'55'-HpCB	46.14	8.81E+05	1.07 Y	1.07	1.00	-6.6%		
PCB-209 DeCB	51.26	6.80E+05	1.22 Y	1.11	1.10	-1.1%		
ES PCB-1	12.05	2.45E+08	3.30 Y	1.19	1.22	2.1%		
ES PCB-3	14.37	2.19E+08	3.33 Y	1.09	1.09	0.4%		
ES PCB-4	14.63	1.05E+08	1.62 Y	0.52	0.52	-0.1%		
ES PCB-15	20.39	2.08E+08	1.56 Y	1.04	1.04	-0.5%		
ES PCB-19	17.75	1.01E+08	1.09 Y	0.51	0.50	-0.8%		
ES PCB-37	26.75	1.55E+08	1.10 Y	1.66	1.64	-1.1%		
ES PCB-54	20.68	8.14E+07	0.81 Y	0.86	0.86	0.2%		
ES PCB-77	33.10	1.30E+08	0.82 Y	1.38	1.37	-0.7%		
ES PCB-81	32.63	1.27E+08	0.82 Y	1.37	1.35	-1.5%		
ES PCB-104	25.69	6.93E+07	1.68 Y	0.80	0.80	0.0%		
ES PCB-105	36.09	1.04E+08	1.61 Y	1.20	1.21	0.7%		
ES PCB-114	35.55	1.06E+08	1.64 Y	1.22	1.22	0.5%		
ES PCB-118	35.09	1.01E+08	1.61 Y	1.16	1.17	0.8%		
ES PCB-123	34.80	1.03E+08	1.61 Y	1.19	1.20	0.9%		
ES PCB-126	38.71	8.78E+07	1.58 Y	1.03	1.02	-0.9%		
ES PCB-153	36.68	6.38E+07	1.31 Y	1.11	1.11	-0.4%		
ES PCB-155	30.66	9.19E+07	1.28 Y	1.59	1.60	0.6%		
ES PCB-156/157	41.27	1.81E+08	1.29 Y	1.60	1.57	-1.9%		
ES PCB-167	40.28	9.51E+07	1.28 Y	1.67	1.65	-1.0%		
ES PCB-169	43.99	8.81E+07	1.26 Y	1.56	1.53	-1.6%		
ES PCB-170	43.50	5.21E+07	1.09 Y	0.95	0.93	-1.8%		
ES PCB-180	42.43	6.14E+07	1.09 Y	1.14	1.10	-3.7%		
ES PCB-188	35.55	5.38E+07	1.11 Y	0.94	0.93	-0.5%		
ES PCB-189	46.12	8.78E+07	1.03 Y	1.58	1.57	-1.0%		
ES PCB-202	40.09	5.52E+07	0.93 Y	0.97	0.96	-1.1%		
ES PCB-205	48.29	6.89E+07	0.90 Y	1.24	1.23	-1.2%		
ES PCB-206	49.76	4.58E+07	0.81 Y	0.83	0.82	-1.4%		
ES PCB-208	45.73	6.49E+07	0.80 Y	1.17	1.16	-1.4%		
ES PCB-209	51.23	6.17E+07	1.20 Y	1.11	1.10	-0.7%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.73E+08	1.09 Y	1.11	1.12	0.7%	
SS PCB-111	33.12	1.05E+08	1.58 Y	1.03	1.02	-0.8%	
SS PCB-178	38.12	3.27E+07	1.10 Y	0.62	0.61	-1.9%	
CS PCB-28	23.18	1.73E+08	1.09 Y	1.85	1.84	-0.4%	
CS PCB-111	33.12	1.05E+08	1.58 Y	1.22	1.22	0.1%	
CS PCB-178	38.12	3.27E+07	1.10 Y	0.58	0.57	-2.4%	
JS PCB-9	16.63	2.01E+08	1.58 Y	-	-	-	
JS PCB-52	24.81	9.43E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	8.62E+07	1.61 Y	-	-	-	
JS PCB-138	37.74	5.75E+07	1.31 Y	-	-	-	
JS PCB-194	47.89	5.60E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-2 3-MoCB	14.20	2.22E+06	3.19 Y	1.03	1.01	-2.1%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-10 26'-DiCB	14.83	1.99E+06	1.53 Y	1.98	1.90	-4.3%	
PCB-9 25'-DiCB	16.65	1.98E+06	1.52 Y	0.95	0.95	0.8%	
PCB-7 24'-DiCB	16.82	2.15E+06	1.55 Y	1.05	1.03	-1.3%	
PCB-6 23'-DiCB	17.04	1.96E+06	1.59 Y	1.00	0.94	-5.2%	
PCB-5 23'-DiCB	17.35	1.92E+06	1.63 Y	1.00	0.92	-7.9%	
PCB-8 24'-DiCB	17.47	2.06E+06	1.64 Y	1.03	0.99	-4.3%	
PCB-14 35'-DiCB	19.04	2.37E+06	1.53 Y	1.18	1.14	-3.6%	
PCB-11 33'-DiCB	19.83	1.97E+06	1.60 Y	1.01	0.95	-6.2%	
PCB-13/12 34'/34'-DiCB	20.12	4.01E+06	1.64 Y	0.99	0.96	-2.7%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-30/18 246'/22'5'-TrCB	19.54	2.96E+06	1.02 Y	1.54	1.47	-4.3%	
PCB-17 22'4'-TrCB	19.95	1.29E+06	1.05 Y	1.31	1.28	-1.9%	
PCB-27 23'6'-TrCB	20.14	1.77E+06	1.07 Y	1.82	1.76	-3.4%	
PCB-24 236'-TrCB	20.28	1.71E+06	1.05 Y	1.72	1.69	-1.8%	
PCB-16 22'3'-TrCB	20.37	9.51E+05	1.08 Y	1.01	0.94	-6.2%	
PCB-32 24'6'-TrCB	20.85	1.93E+06	1.04 Y	1.92	1.91	-0.2%	
PCB-34 23'5'-TrCB	22.01	1.70E+06	1.01 Y	1.14	1.09	-3.6%	
PCB-23 235'-TrCB	22.16	1.69E+06	1.02 Y	1.16	1.09	-5.7%	
PCB-26/29 23'5'/245'-TrCB	22.45	3.54E+06	1.00 Y	1.17	1.14	-2.6%	
PCB-25 23'4'-TrCB	22.64	1.76E+06	0.93 Y	1.16	1.14	-1.8%	
PCB-31 24'5'-TrCB	22.93	1.79E+06	1.00 Y	1.23	1.16	-5.5%	
PCB-28/20 244'/233'-TrCB	23.21	3.35E+06	0.97 Y	1.13	1.08	-4.5%	
PCB-21/33 234'/23'4'-TrCB	23.39	3.53E+06	1.00 Y	1.17	1.14	-3.0%	
PCB-22 234'-TrCB	23.77	1.63E+06	0.98 Y	1.08	1.05	-2.5%	
PCB-36 33'5'-TrCB	25.16	1.74E+06	0.96 Y	1.17	1.12	-4.1%	
PCB-39 34'5'-TrCB	25.48	1.81E+06	0.98 Y	1.21	1.16	-3.9%	
PCB-38 345'-TrCB	26.02	1.68E+06	1.02 Y	1.10	1.08	-1.9%	
PCB-35 33'4'-TrCB	26.41	1.52E+06	0.97 Y	1.04	0.98	-5.4%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	2.16E+06	0.78 Y	0.88	0.85	-2.9%	
PCB-45 22'36'-TeCB	23.29	9.68E+05	0.81 Y	0.77	0.76	-0.6%	
PCB-51 22'46'-TeCB	23.37	1.04E+06	0.82 Y	0.86	0.82	-4.6%	
PCB-46 22'36'-TeCB	23.57	8.57E+05	0.74 Y	0.70	0.68	-3.4%	
PCB-52 22'55'-TeCB	24.83	1.06E+06	0.77 Y	0.84	0.83	-1.4%	
PCB-73 23'5'6'-TeCB	24.97	1.35E+06	0.75 Y	1.11	1.06	-4.6%	
PCB-43 22'35'-TeCB	25.06	8.63E+05	0.75 Y	0.71	0.68	-4.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	2.50E+06	0.75 Y	1.02	0.98	-3.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	1.01E+06	0.77 Y	0.84	0.79	-5.5%	
PCB-44/47/65 ...-TeCB	25.76	3.36E+06	0.79 Y	0.90	0.88	-2.5%	
PCB-59/62/75 ...-TeCB	26.04	4.29E+06	0.80 Y	1.17	1.13	-3.3%	
PCB-42 22'34'-TeCB	26.20	9.26E+05	0.75 Y	0.76	0.73	-4.4%	
PCB-41 22'34'-TeCB	26.54	8.37E+05	0.80 Y	0.69	0.66	-5.2%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	2.09E+06	0.82 Y	0.86	0.82	-4.1%	
PCB-64 23'4'6'-TeCB	26.83	1.50E+06	0.75 Y	1.22	1.18	-3.1%	
PCB-72 23'55'-TeCB	27.55	1.50E+06	0.80 Y	1.21	1.18	-2.1%	
PCB-68 23'45'-TeCB	27.81	1.57E+06	0.77 Y	1.28	1.24	-3.0%	
PCB-57 23'3'5'-TeCB	28.18	1.41E+06	0.85 Y	1.16	1.11	-4.3%	
PCB-58 23'3'5'-TeCB	28.38	1.44E+06	0.79 Y	1.18	1.13	-4.0%	
PCB-67 23'45'-TeCB	28.54	1.59E+06	0.76 Y	1.26	1.25	-0.7%	
PCB-63 23'4'5'-TeCB	28.77	1.60E+06	0.79 Y	1.30	1.26	-3.2%	
PCB-61/70/74/76 ...-TeCB	29.06	5.90E+06	0.78 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.34	1.35E+06	0.80 Y	1.10	1.06	-3.5%	
PCB-55 23'3'4'-TeCB	29.49	1.40E+06	0.79 Y	1.12	1.10	-1.8%	
PCB-56 23'3'4'-TeCB	29.93	1.33E+06	0.78 Y	1.11	1.05	-5.4%	
PCB-60 23'44'-TeCB	30.12	1.42E+06	0.78 Y	1.14	1.12	-1.4%	
PCB-80 33'55'-TeCB	30.45	1.64E+06	0.76 Y	1.31	1.29	-1.8%	
PCB-79 33'4'5'-TeCB	31.78	1.69E+06	0.80 Y	1.31	1.33	1.6%	
PCB-78 33'4'5'-TeCB	32.27	1.26E+06	0.77 Y	1.06	0.99	-6.5%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-96 22'366'-PeCB	26.03	8.58E+05	0.71 Y	1.23	1.24	0.8%	
PCB-103 22'45'6'-PeCB	27.72	9.36E+05	0.64 Y	0.93	0.91	-2.5%	
PCB-94 22'356'-PeCB	27.91	7.83E+05	0.65 Y	0.80	0.76	-5.2%	
PCB-95 22'35'6'-PeCB	28.30	8.29E+05	0.59 Y	0.87	0.80	-7.3%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	1.71E+06	0.59 Y	0.86	0.83	-4.0%	
PCB-102 22'456'-PeCB	28.63	9.57E+05	0.62 Y	0.97	0.93	-4.2%	
PCB-98 22'34'6'-PeCB	28.69	7.04E+05	0.64 Y	0.76	0.68	-10.0%	
PCB-88 22'346'-PeCB	28.99	7.38E+05	0.59 Y	0.80	0.72	-10.4%	
PCB-91 22'34'6'-PeCB	29.06	9.82E+05	0.56 Y	0.94	0.95	0.8%	
PCB-84 22'33'6'-PeCB	29.25	6.84E+05	0.58 Y	0.72	0.66	-7.4%	
PCB-89 22'346'-PeCB	29.67	7.66E+05	0.63 Y	0.76	0.74	-2.8%	
PCB-121 23'45'6'-PeCB	30.02	1.19E+06	0.67 Y	1.20	1.15	-3.9%	
PCB-92 22'355'-PeCB	30.33	8.33E+05	0.61 Y	0.82	0.81	-1.6%	
PCB-113/90/101 ...-PeCB	30.82	2.96E+06	0.62 Y	0.99	0.96	-2.9%	
PCB-83 22'33'5'-PeCB	31.26	7.27E+05	0.67 Y	0.71	0.70	-1.5%	
PCB-99 22'44'5'-PeCB	31.36	9.10E+05	0.63 Y	0.92	0.88	-4.2%	
PCB-112 23'3'56'-PeCB	31.46	1.16E+06	0.65 Y	1.17	1.12	-3.8%	
PCB-108/119/86/97/125...-PeCB	31.80	5.82E+06	0.61 Y	0.98	0.94	-4.0%	
PCB-117 23'4'56'-PeCB	32.34	1.19E+06	0.62 Y	1.14	1.15	1.3%	
PCB-116/85 23'456/22'344'-PeCB	32.43	1.79E+06	0.62 Y	0.94	0.87	-7.6%	
PCB-110 23'3'4'6'-PeCB	32.54	1.10E+06	0.62 Y	1.12	1.07	-4.4%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	1.15E+06	0.66 Y	1.16	1.11	-4.2%	
PCB-82 22'33'4-PeCB	32.83	6.91E+05	0.62 Y	0.70	0.67	-4.0%	
PCB-111 233'55'-PeCB	33.15	1.20E+06	0.64 Y	1.22	1.17	-4.5%	
PCB-120 23'455'-PeCB	33.54	1.18E+06	0.65 Y	1.21	1.14	-5.6%	
PCB-107/124 ...-PeCB	34.51	2.12E+06	0.63 Y	1.10	1.03	-6.4%	
PCB-109 233'46-PeCB	34.72	1.09E+06	0.61 Y	1.25	1.05	-16.1%	
PCB-106 233'45-PeCB	34.94	1.12E+06	0.63 Y	1.11	1.08	-2.0%	
PCB-122 233'4'5'-PeCB	35.40	1.01E+06	0.63 Y	0.99	0.96	-3.7%	
PCB-127 33'455'-PeCB	37.35	1.08E+06	0.63 Y	1.10	1.04	-5.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-152 22'3566'-HxCB	30.84	1.03E+06	1.37 Y	1.17	1.12	-4.2%	
PCB-150 22'34'66'-HxCB	30.98	1.02E+06	1.19 Y	1.18	1.10	-6.1%	
PCB-136 22'33'66'-HxCB	31.29	8.99E+05	1.33 Y	1.07	0.98	-8.3%	
PCB-145 22'3466'-HxCB	31.56	1.00E+06	1.26 Y	1.11	1.09	-2.4%	
PCB-148 22'34'56'-HxCB	32.83	7.25E+05	1.41 Y	1.18	1.14	-3.9%	
PCB-151/135 ...-HxCB	33.36	1.44E+06	1.27 Y	1.14	1.13	-1.1%	
PCB-154 22'44'56'-HxCB	33.57	8.24E+05	1.31 Y	1.34	1.29	-3.8%	
PCB-144 22'345'6-HxCB	33.83	7.12E+05	1.24 Y	1.18	1.12	-5.7%	
PCB-147/149 ...-HxCB	34.13	1.47E+06	1.29 Y	1.18	1.15	-2.3%	
PCB-134 22'33'56-HxCB	34.31	5.72E+05	1.37 Y	0.92	0.90	-3.0%	
PCB-143 22'3456'-HxCB	34.39	7.05E+05	1.29 Y	1.13	1.10	-2.2%	
PCB-139/140 ...-HxCB	34.66	1.49E+06	1.23 Y	1.21	1.16	-3.5%	
PCB-131 22'33'46-HxCB	34.83	6.51E+05	1.25 Y	1.03	1.02	-0.6%	
PCB-142 22'3456-HxCB	34.98	5.89E+05	1.28 Y	0.99	0.92	-6.8%	
PCB-132 22'33'46'-HxCB	35.21	6.45E+05	1.26 Y	1.03	1.01	-2.0%	
PCB-133 22'33'55'-HxCB	35.61	7.07E+05	1.26 Y	1.13	1.11	-2.1%	
PCB-165 233'55'6-HxCB	35.95	8.89E+05	1.25 Y	1.41	1.39	-1.1%	
PCB-146 22'34'55'-HxCB	36.17	7.40E+05	1.25 Y	1.20	1.16	-3.5%	
PCB-161 233'45'6-HxCB	36.29	9.19E+05	1.24 Y	1.52	1.44	-5.3%	
PCB-153/168 ...-HxCB	36.72	1.81E+06	1.24 Y	1.46	1.42	-2.7%	
PCB-141 22'3455'-HxCB	36.86	6.67E+05	1.26 Y	1.09	1.05	-4.0%	
PCB-130 22'33'45'-HxCB	37.21	6.08E+05	1.33 Y	0.97	0.95	-2.0%	
PCB-137 22'344'5-HxCB	37.41	7.27E+05	1.30 Y	1.16	1.14	-2.1%	
PCB-164 233'4'5'6-HxCB	37.49	9.46E+05	1.33 Y	1.50	1.48	-1.0%	
PCB-163/138/129 ...-HxCB	37.78	2.21E+06	1.21 Y	1.19	1.15	-3.2%	
PCB-160 233'456-HxCB	37.92	9.44E+05	1.29 Y	1.52	1.48	-2.3%	
PCB-158 233'44'6-HxCB	38.10	1.05E+06	1.33 Y	1.66	1.64	-1.2%	
PCB-128/166 ...-HxCB	38.84	1.64E+06	1.18 Y	0.90	0.86	-4.3%	
PCB-159 233'455'-HxCB	39.65	1.05E+06	1.27 Y	1.11	1.11	-0.8%	
PCB-162 233'4'55'-HxCB	39.89	9.62E+05	1.13 Y	1.07	1.01	-5.6%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-179 22'33'566'-HpCB	35.85	6.25E+05	1.09 Y	1.16	1.16	0.1%	
PCB-184 22'344'66'-HpCB	36.32	5.87E+05	1.02 Y	1.13	1.09	-3.2%	

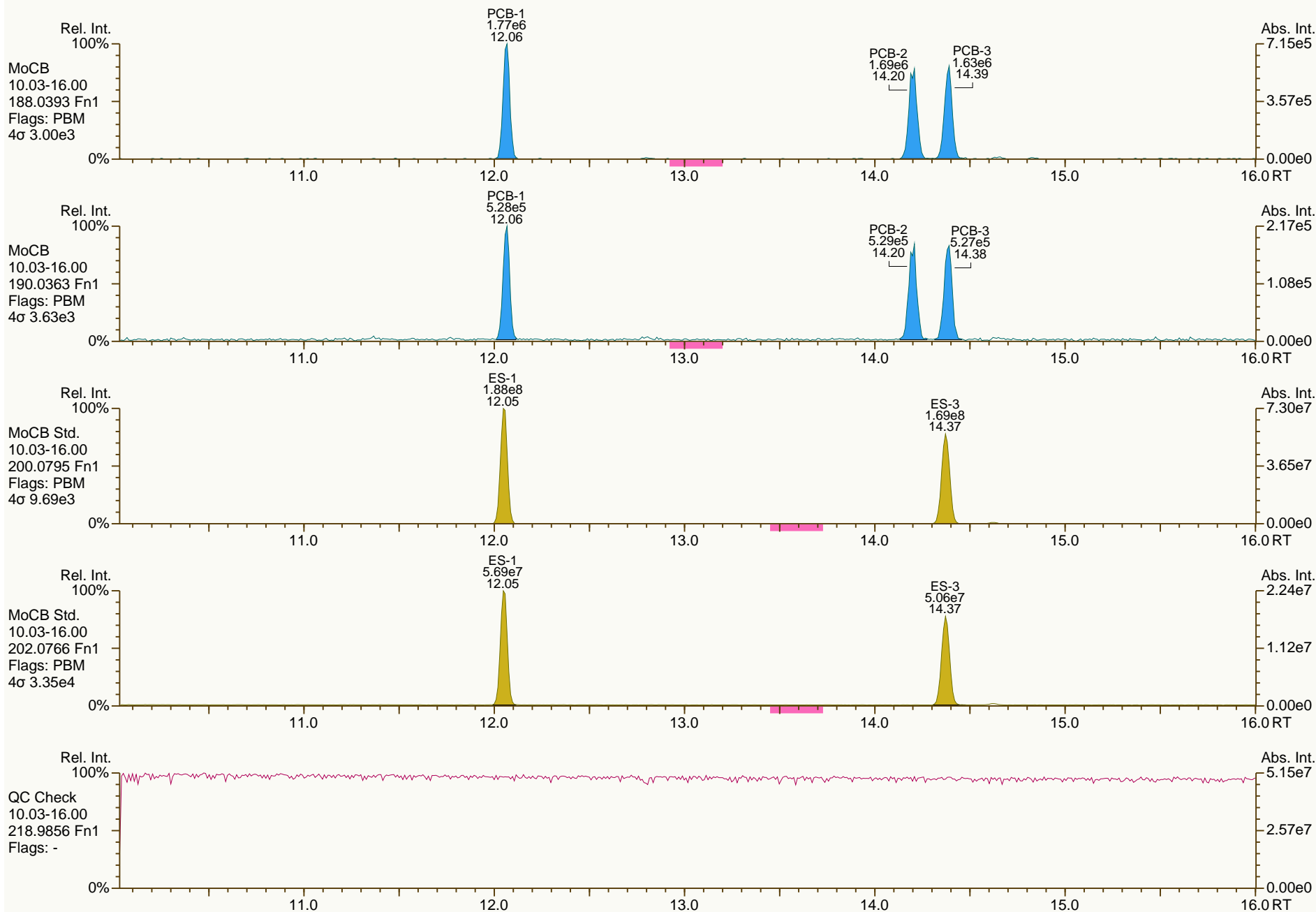
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Datafile:	131220X03						
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PCB-176 22'33'466'-HpCB	36.61	6.55E+05	1.14 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.01	5.96E+05	1.00 Y	1.13	1.11	-1.5%	
PCB-178 22'33'55'6'-HpCB	38.14	4.31E+05	1.08 Y	0.84	0.80	-4.9%	
PCB-175 22'33'45'6'-HpCB	38.69	6.43E+05	1.04 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.91	6.87E+05	1.08 Y	1.14	1.12	-1.7%	
PCB-182 22'344'56'-HpCB	39.09	6.98E+05	1.03 Y	1.18	1.14	-3.2%	
PCB-183 22'344'5'6'-HpCB	39.44	7.24E+05	1.15 Y	1.20	1.18	-2.1%	
PCB-185 22'3455'6'-HpCB	39.52	6.34E+05	1.02 Y	1.06	1.03	-2.6%	
PCB-174 22'33'456'-HpCB	39.63	6.37E+05	1.07 Y	0.99	1.04	4.9%	
PCB-177 22'33'45'6'-HpCB	40.01	5.78E+05	1.13 Y	0.95	0.94	-1.0%	
PCB-181 22'344'56'-HpCB	40.36	6.58E+05	1.09 Y	1.09	1.07	-1.4%	
PCB-171/173 ...-HpCB	40.54	1.11E+06	1.08 Y	0.95	0.90	-4.7%	
PCB-172 22'33'455'-HpCB	41.89	5.95E+05	1.09 Y	0.99	0.97	-2.0%	
PCB-192 233'455'6'-HpCB	42.14	7.80E+05	1.06 Y	1.29	1.27	-1.3%	
PCB-180/193 ...-HpCB	42.42	1.50E+06	0.95 Y	1.26	1.22	-3.0%	
PCB-191 233'44'5'6'-HpCB	42.75	8.57E+05	1.12 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.52	5.51E+05	0.98 Y	1.14	1.06	-6.8%	
PCB-190 233'44'56'-HpCB	43.98	8.22E+05	1.07 Y	1.66	1.58	-5.0%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-201 22'33'45'66'-OcCB	40.90	6.75E+05	0.92 Y	1.22	1.22	0.1%	
PCB-204 22'344'566'-OcCB	41.48	6.21E+05	0.94 Y	1.12	1.13	0.8%	
PCB-197 22'33'44'66'-OcCB	41.67	6.41E+05	0.90 Y	1.19	1.16	-2.4%	
PCB-200 22'33'4566'-OcCB	41.76	5.73E+05	0.90 Y	1.11	1.04	-6.2%	
PCB-198/199 ...-OcCB	44.09	8.75E+05	0.91 Y	0.81	0.79	-2.0%	
PCB-196 22'33'44'56'-OcCB	44.67	4.40E+05	0.99 Y	0.83	0.80	-4.4%	
PCB-203 22'344'55'6'-OcCB	44.84	4.68E+05	0.92 Y	0.87	0.85	-3.0%	
PCB-195 22'33'44'56'-OcCB	45.96	5.10E+05	0.94 Y	0.77	0.74	-3.4%	
PCB-194 22'33'44'55'-OcCB	47.91	5.61E+05	0.90 Y	0.84	0.82	-3.3%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-207 22'33'44'566'-NoCB	46.54	7.50E+05	0.80 Y	1.19	1.16	-2.9%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

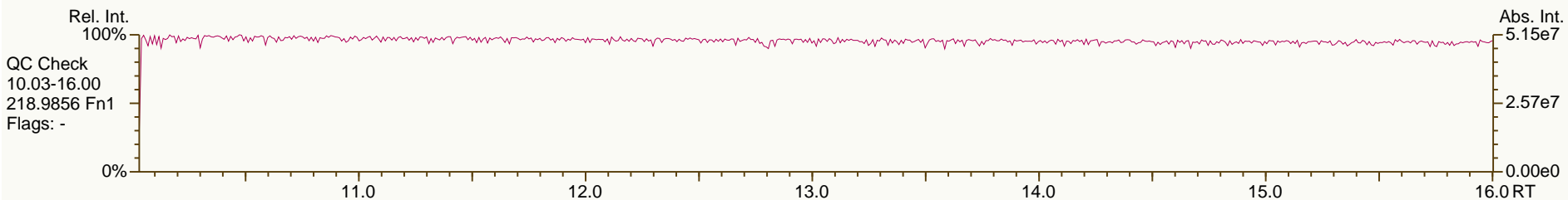
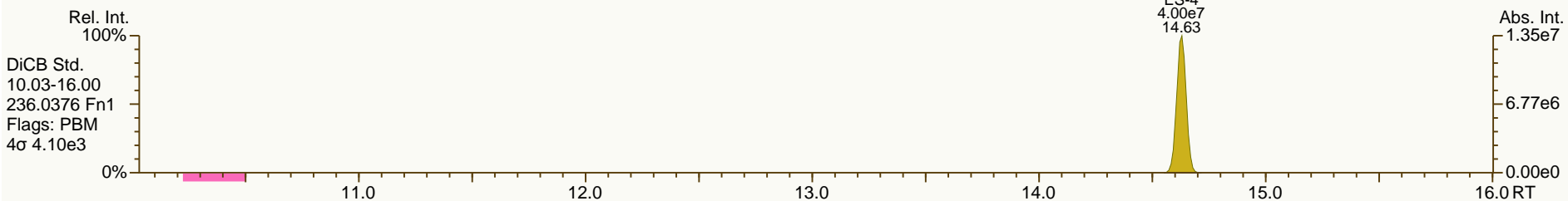
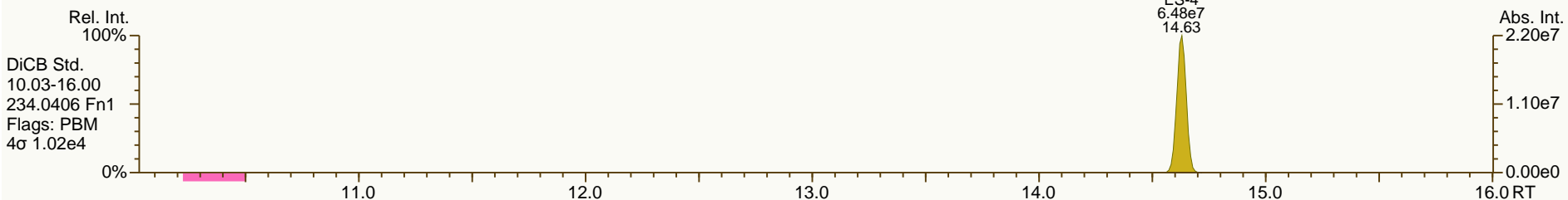
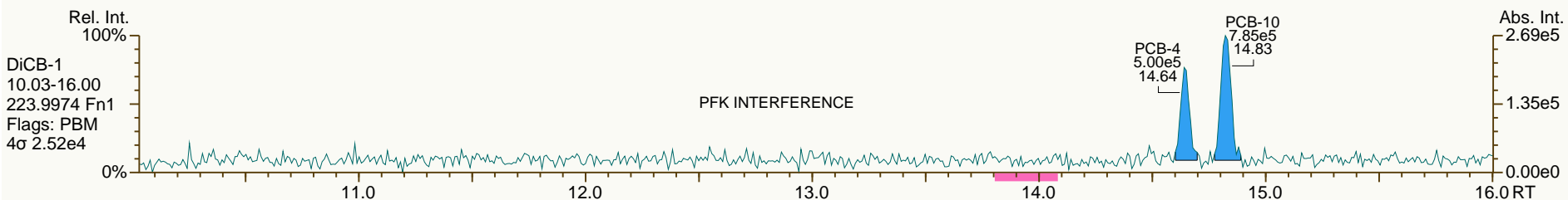
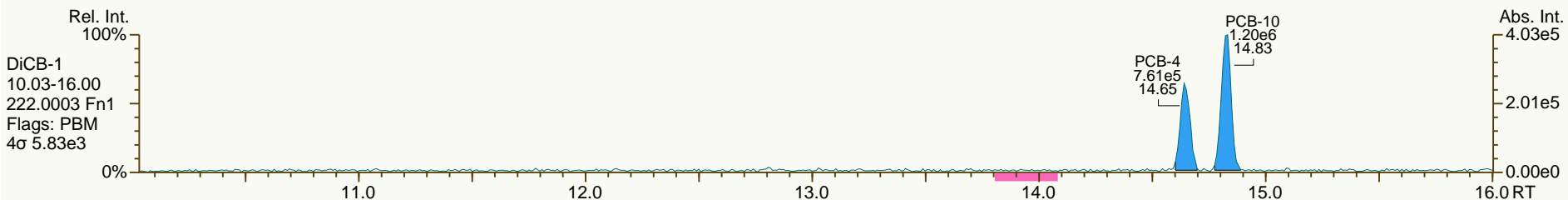
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

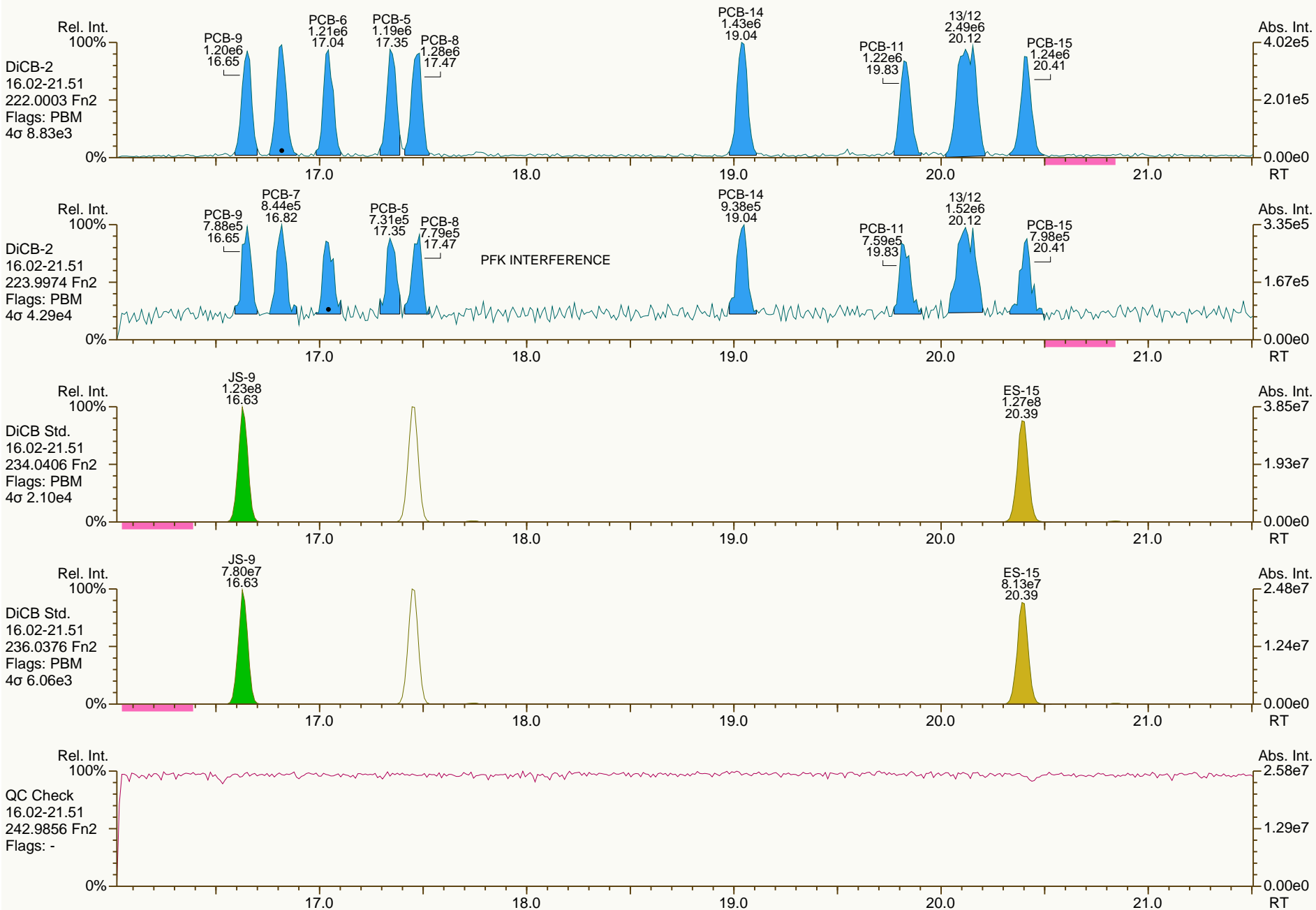
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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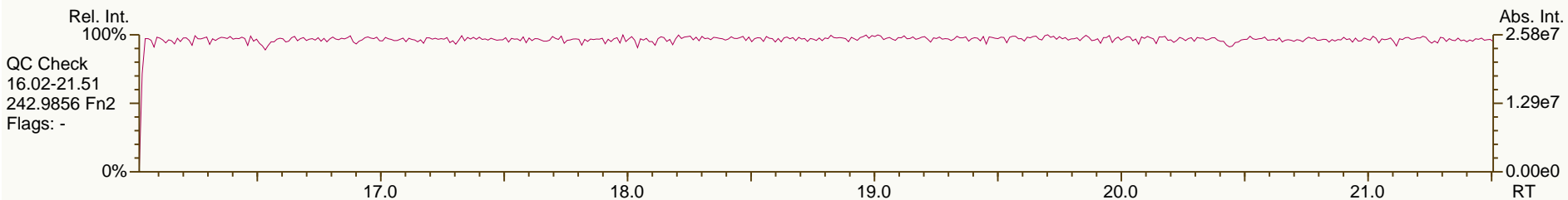
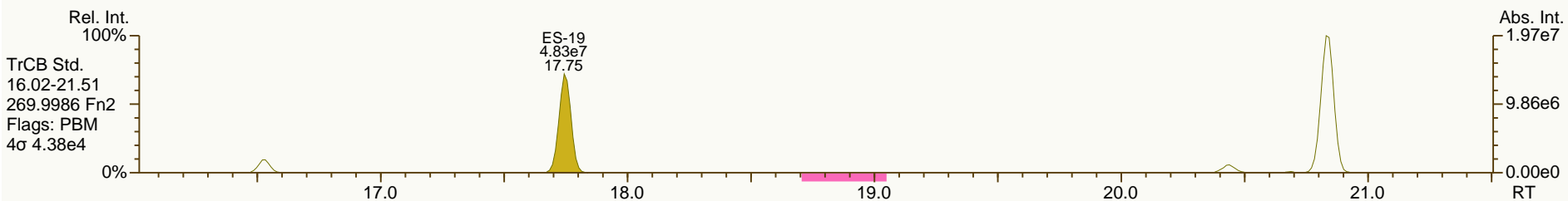
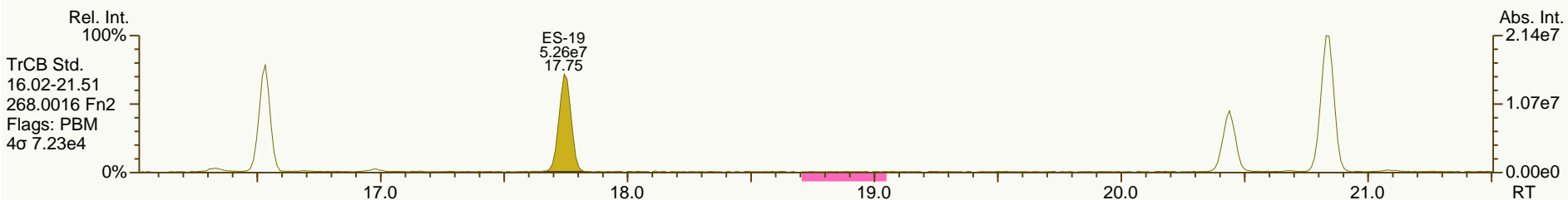
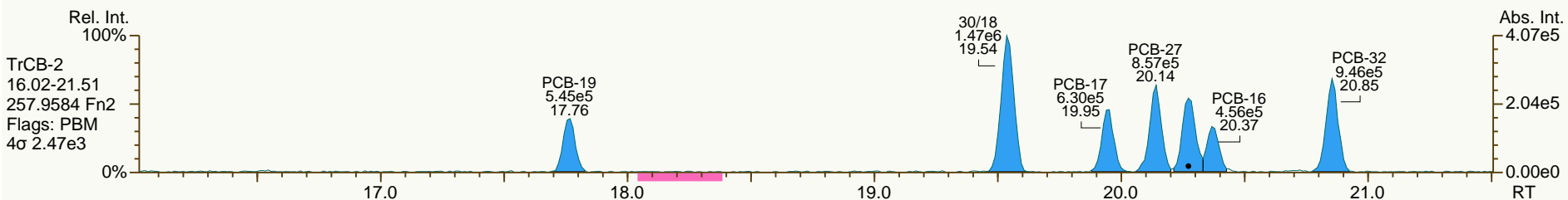
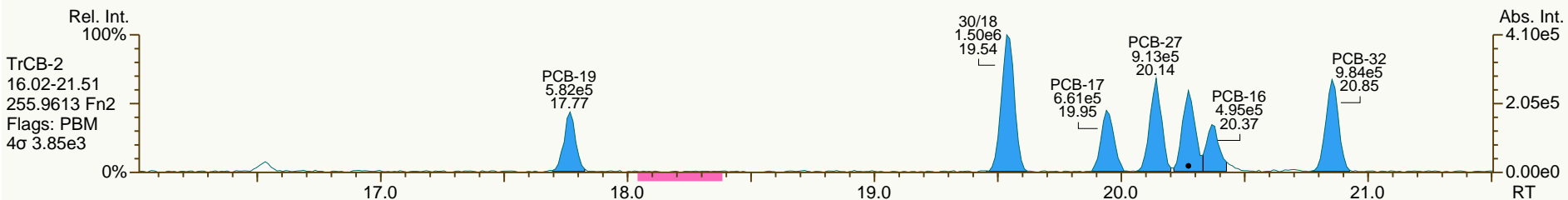
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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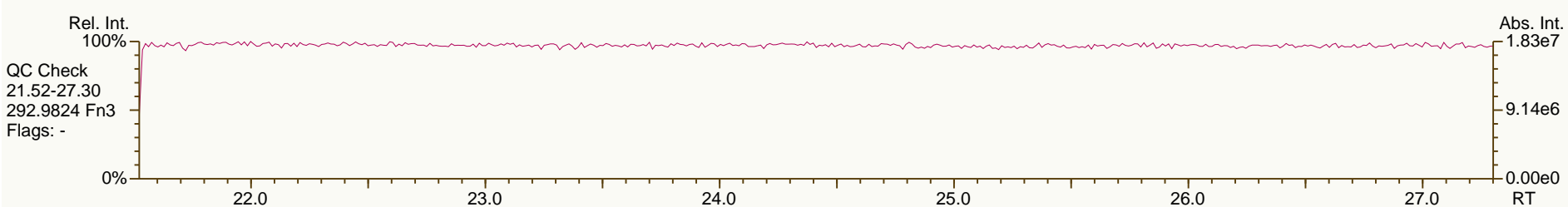
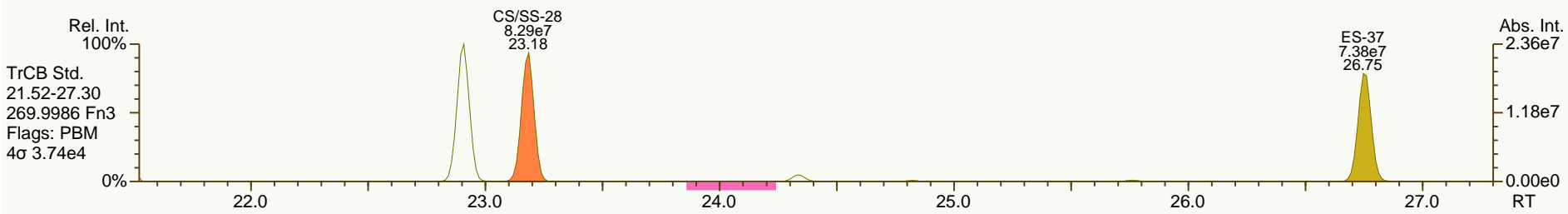
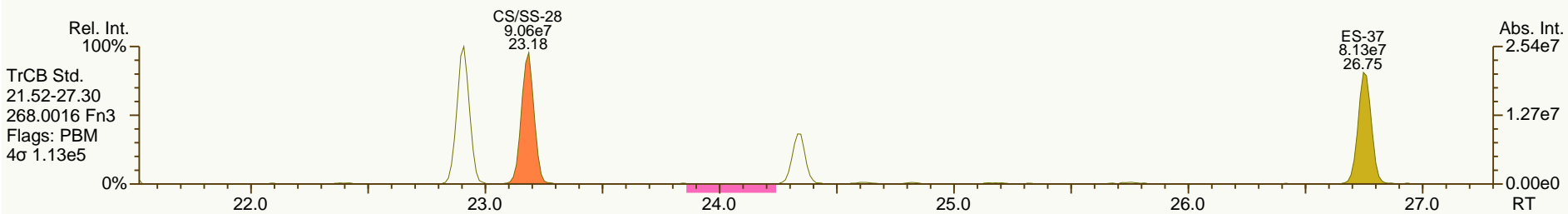
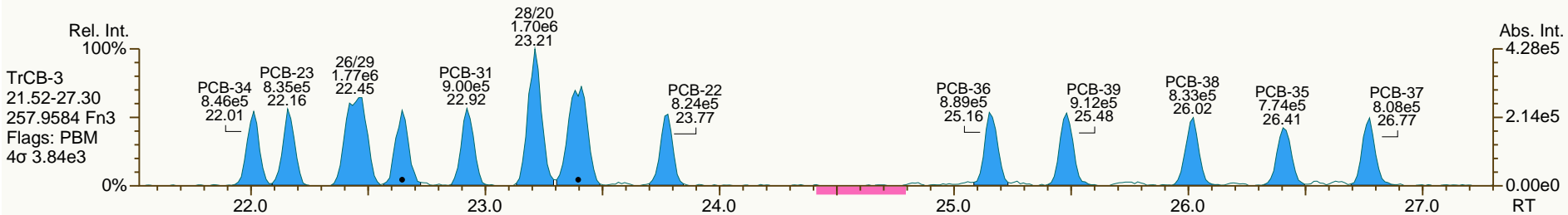
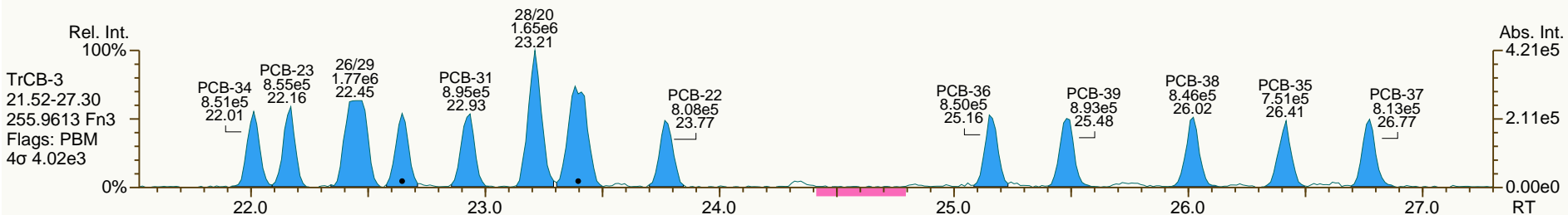
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

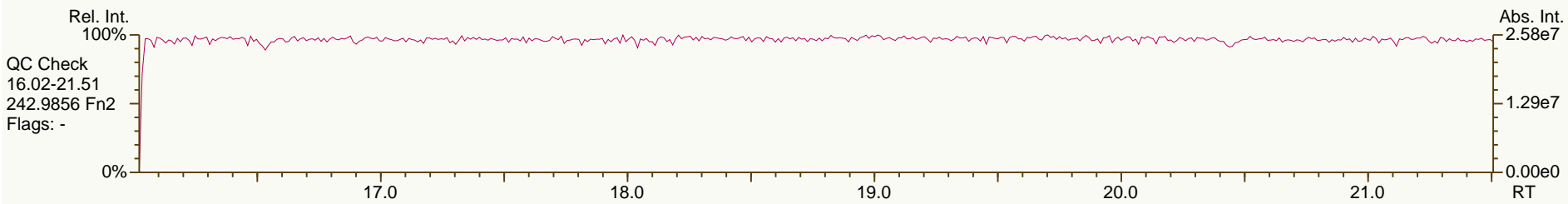
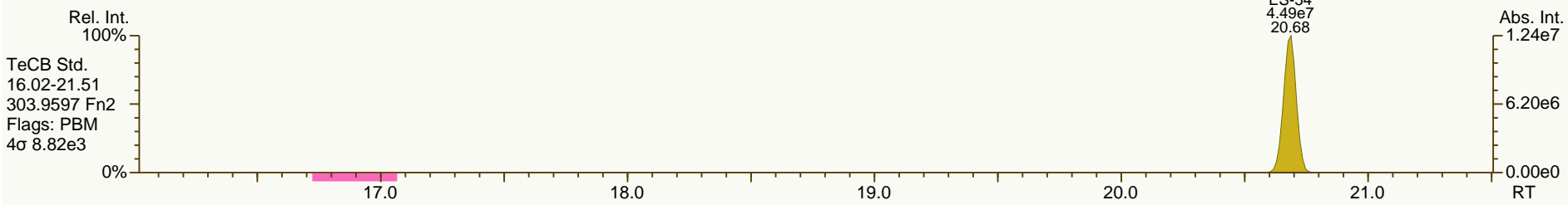
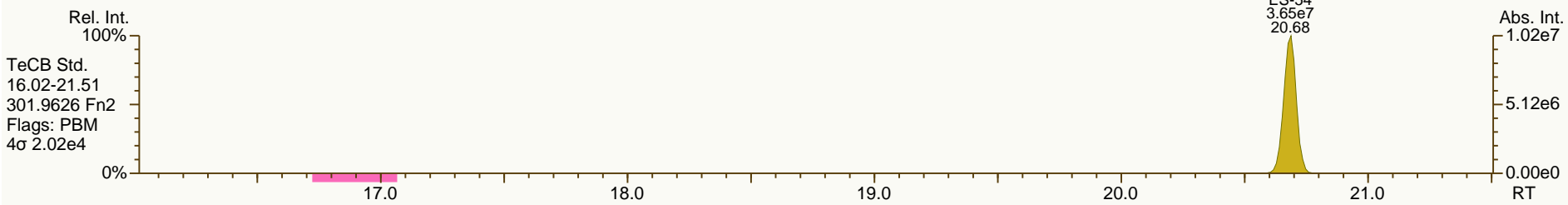
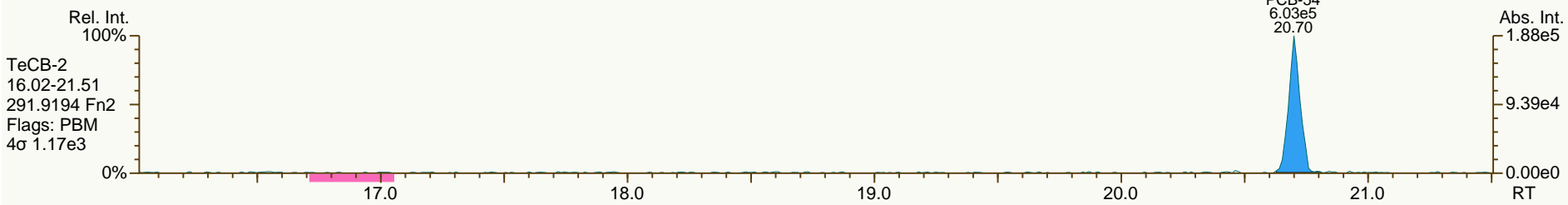
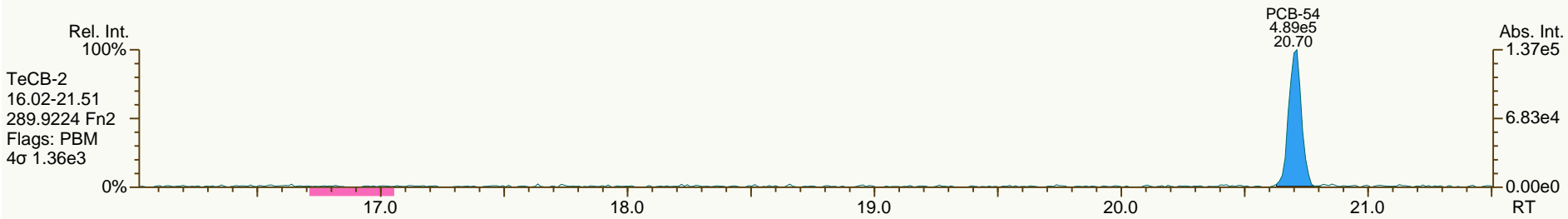
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

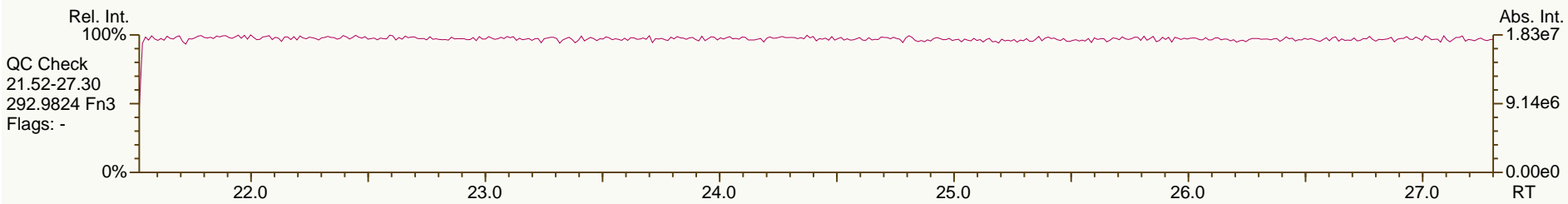
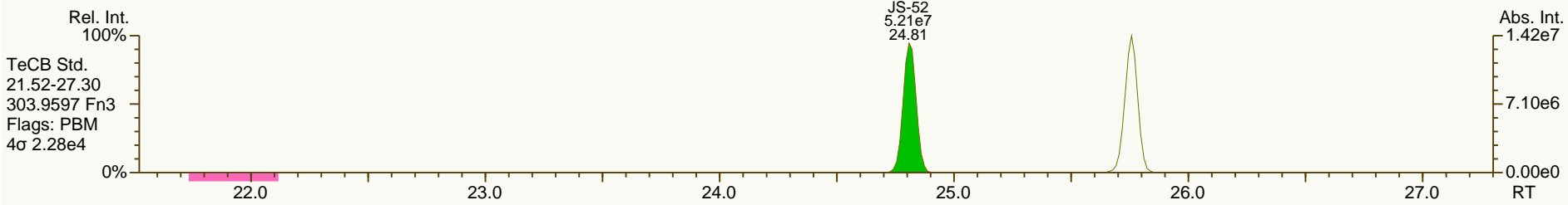
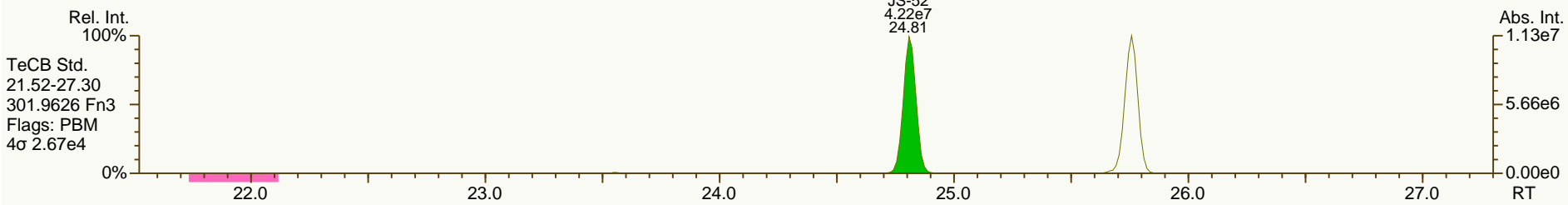
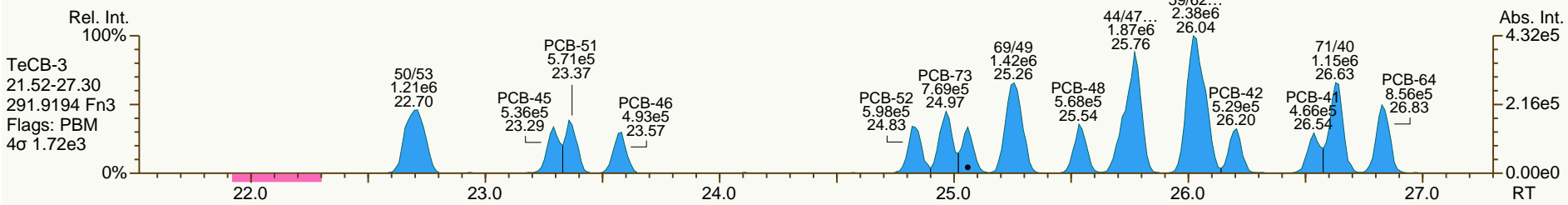
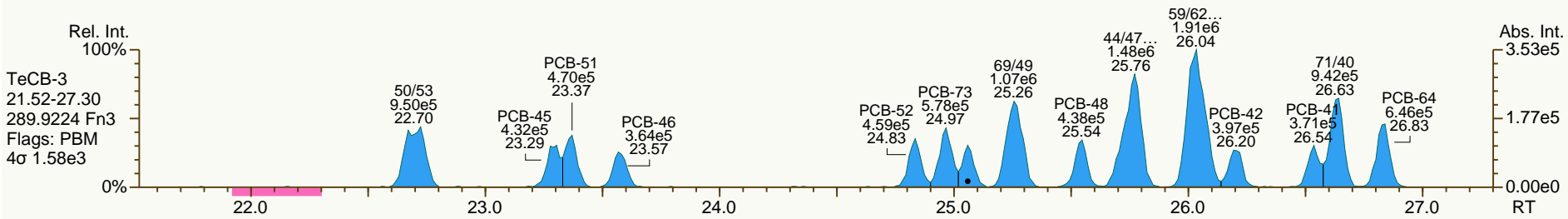
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

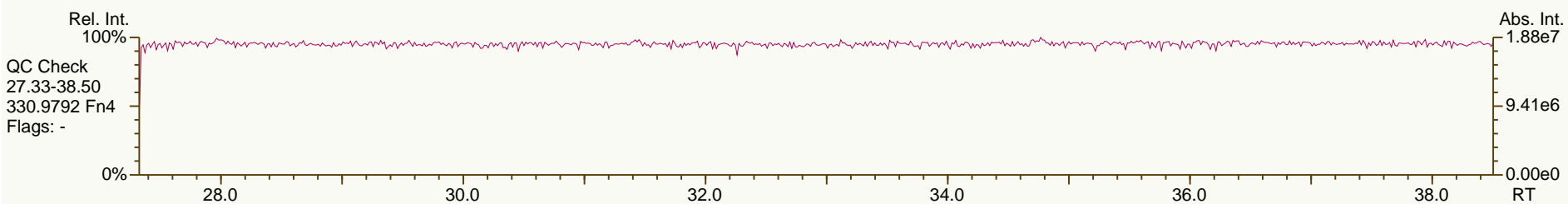
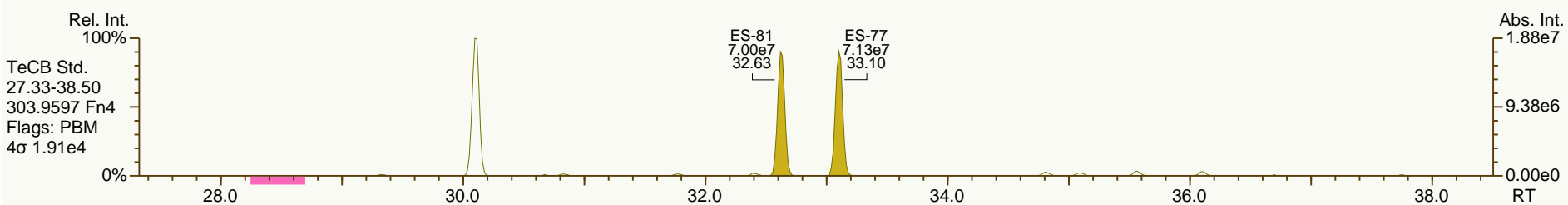
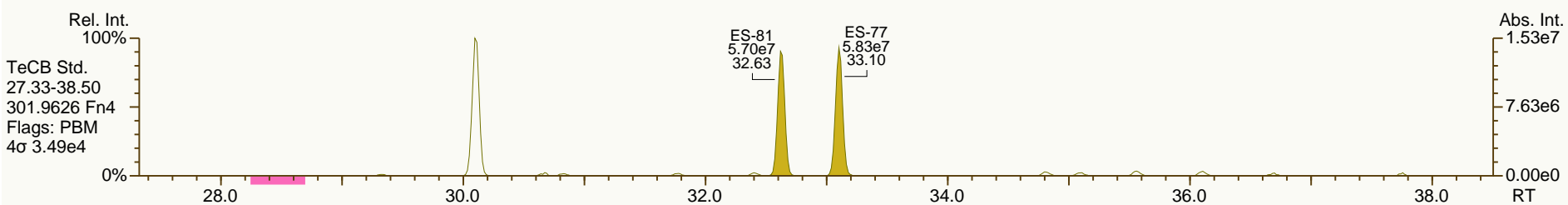
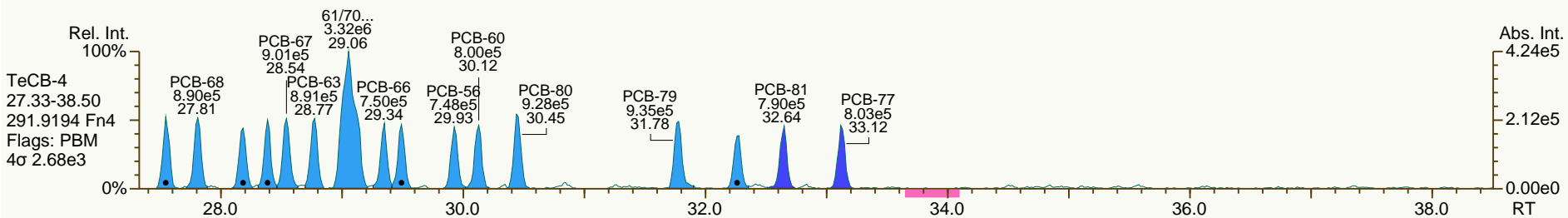
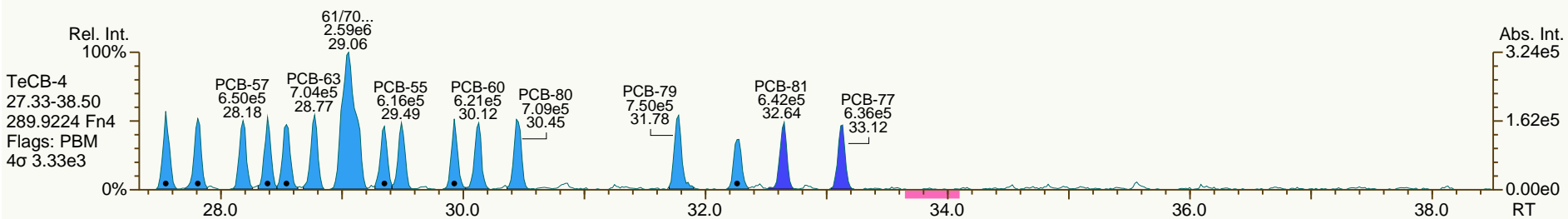
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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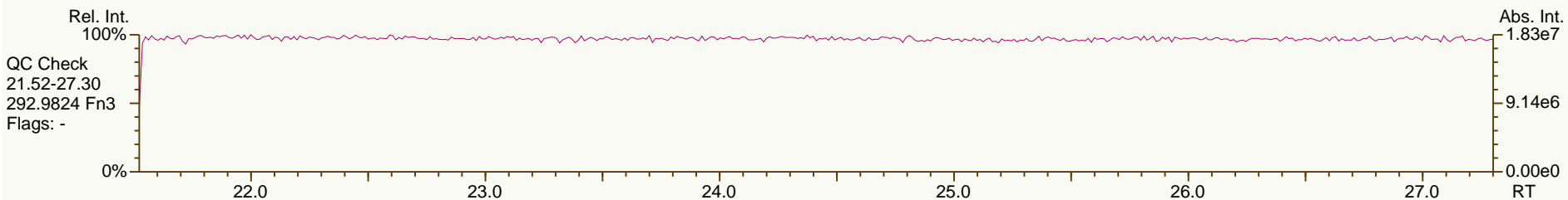
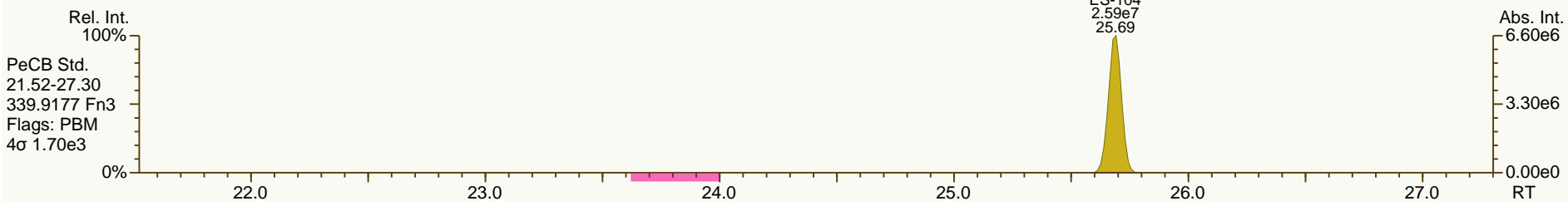
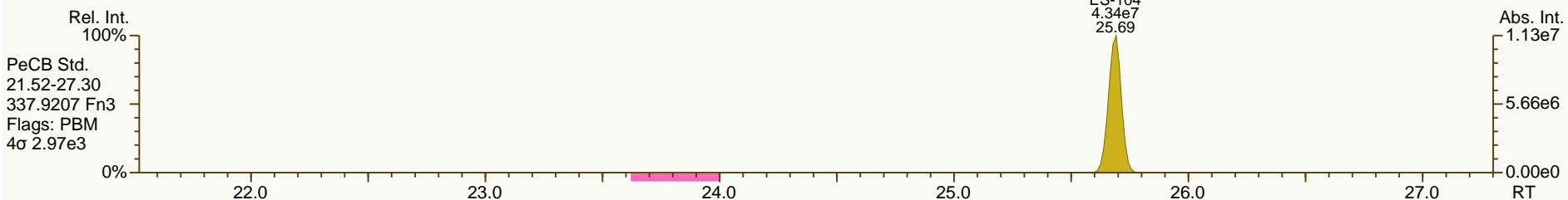
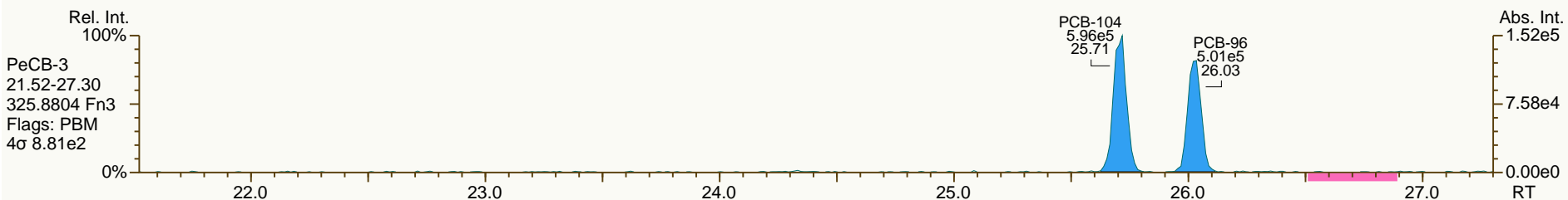
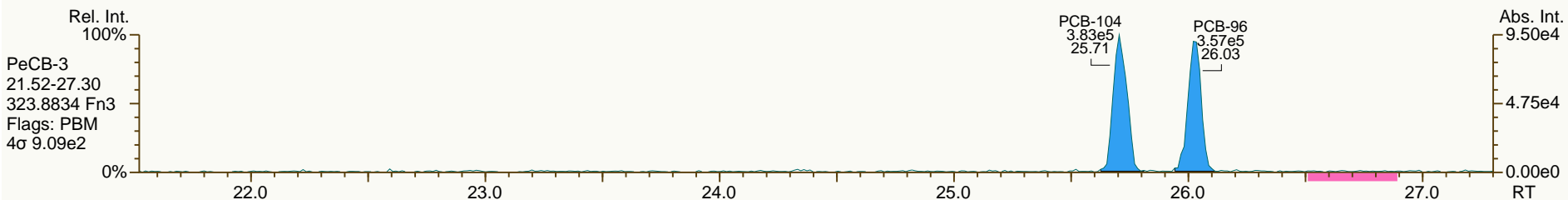




SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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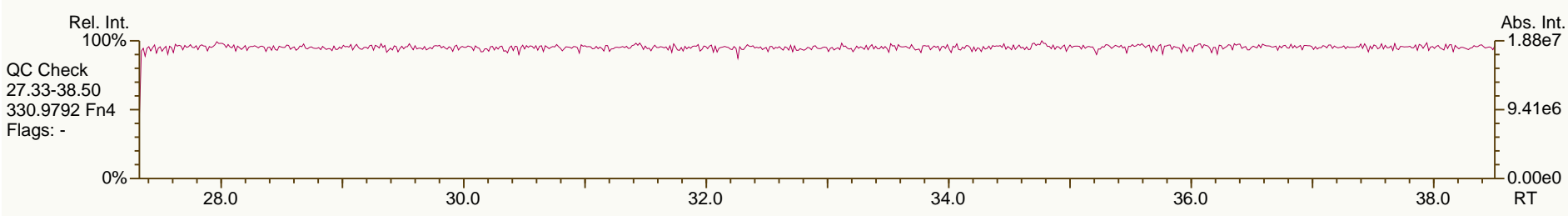
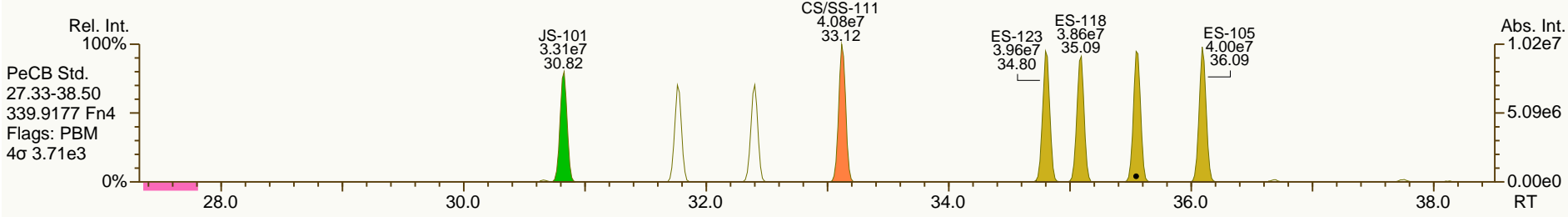
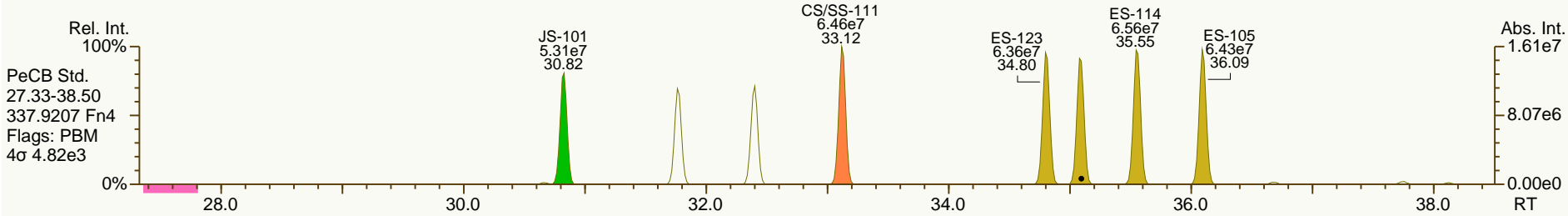
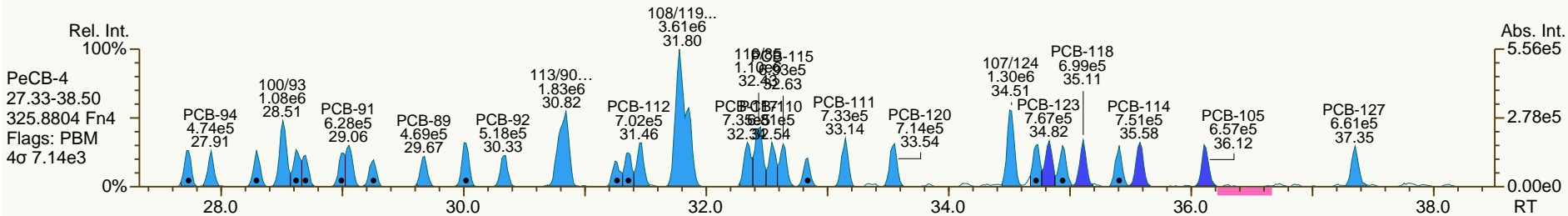
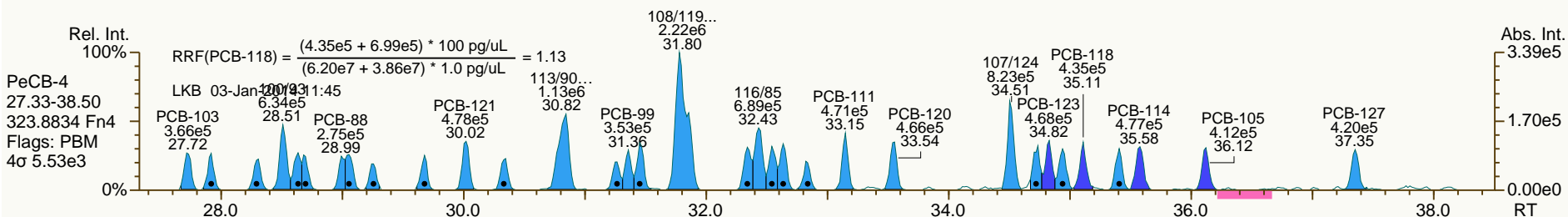
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

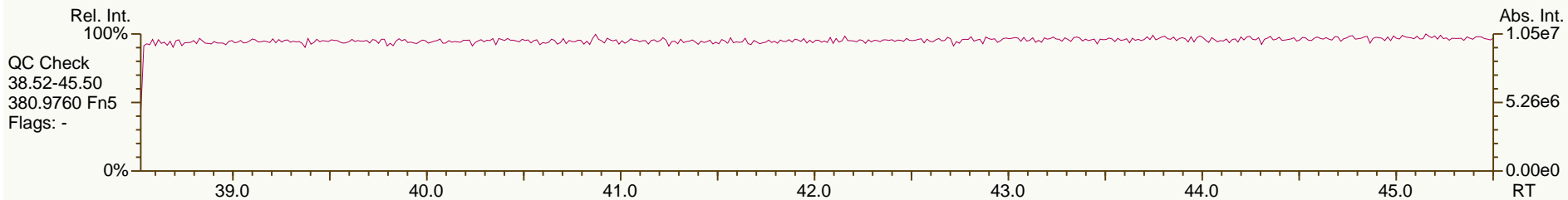
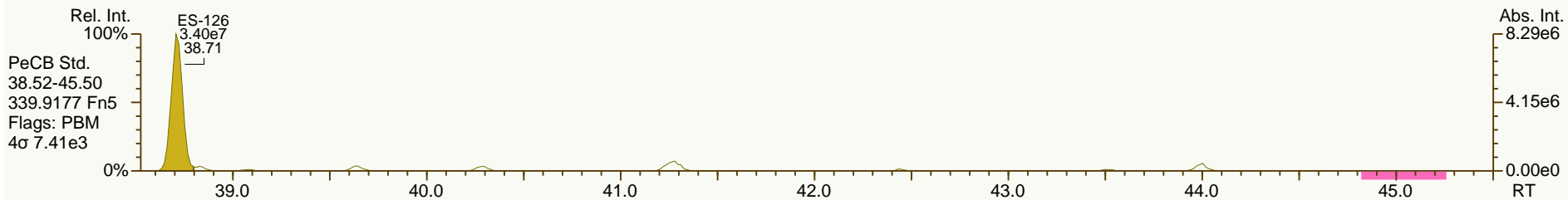
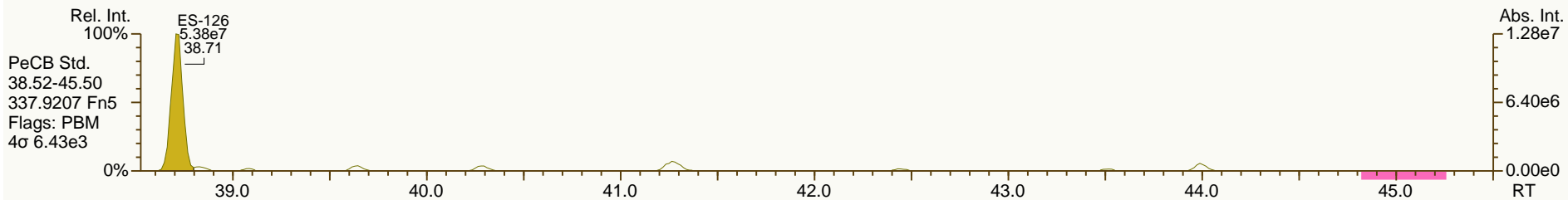
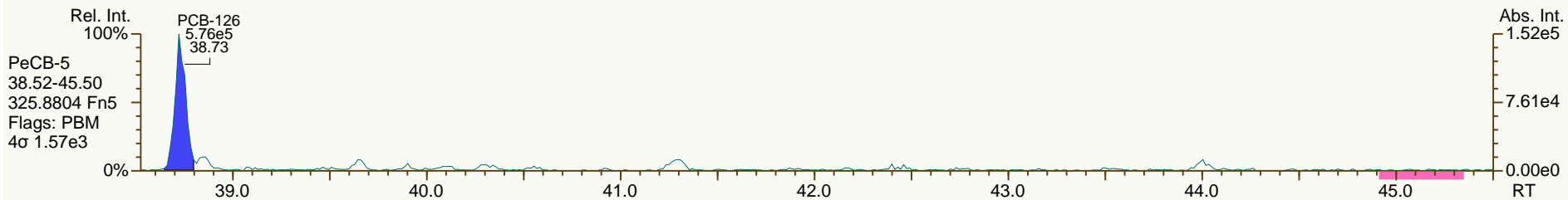
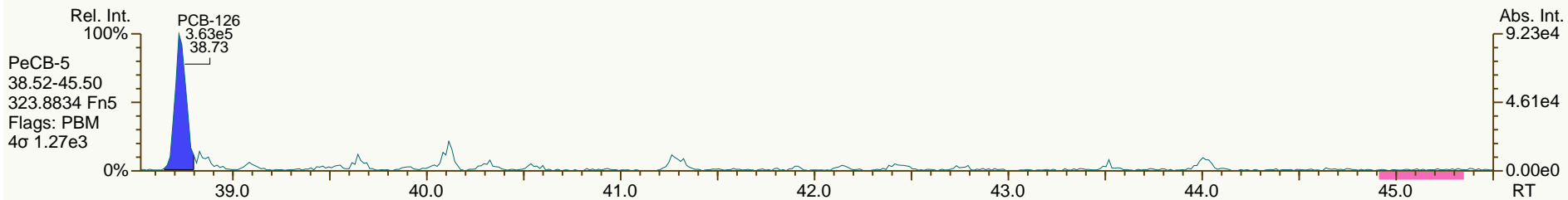
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SGS-AP ID: CS1\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-5  
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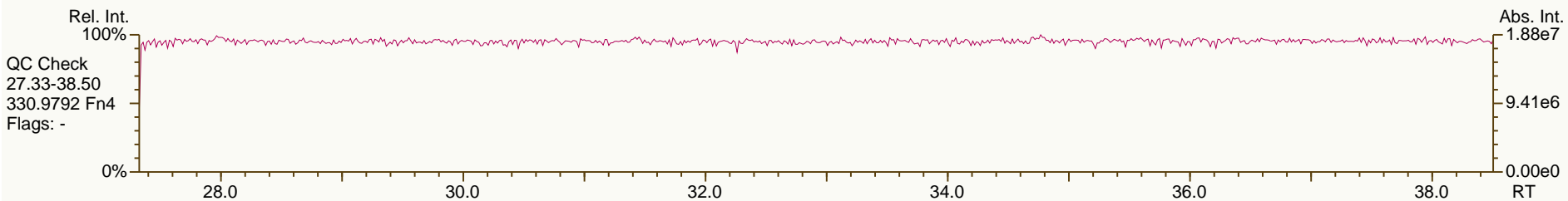
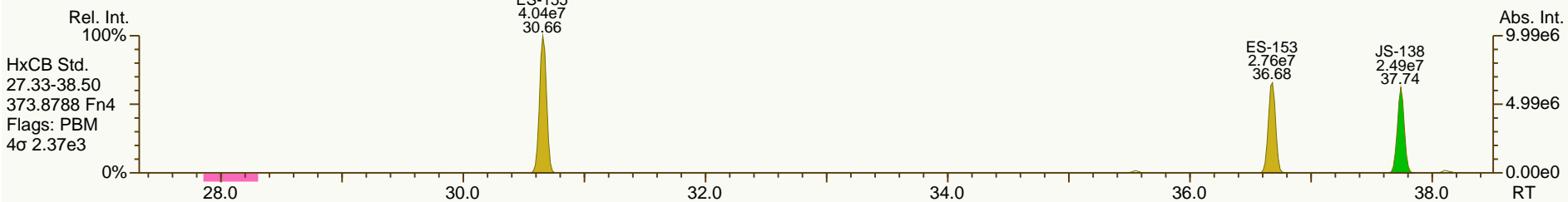
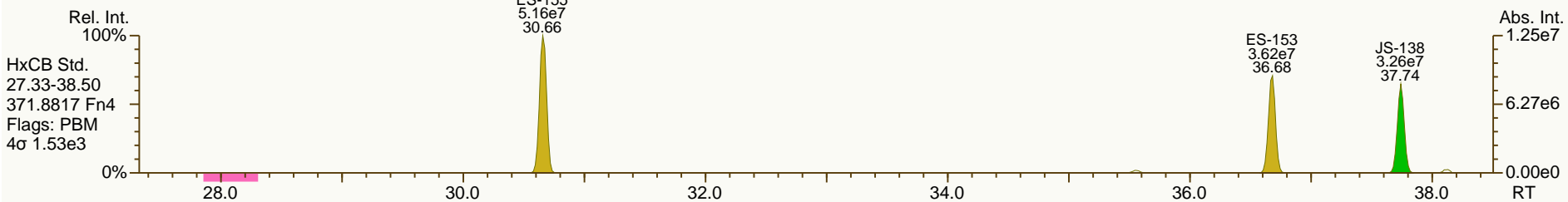
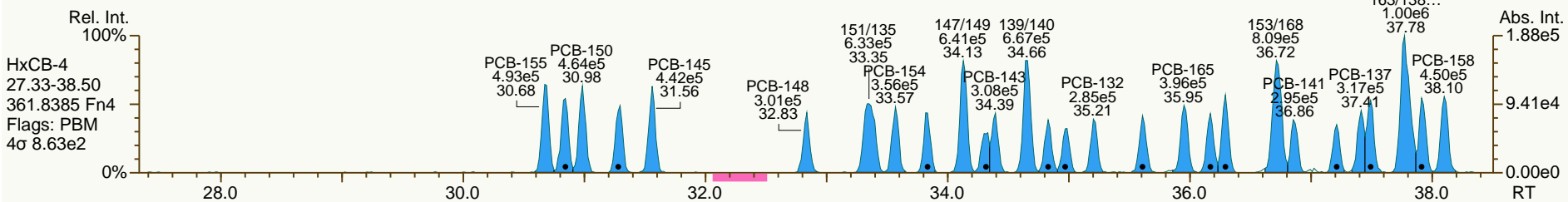
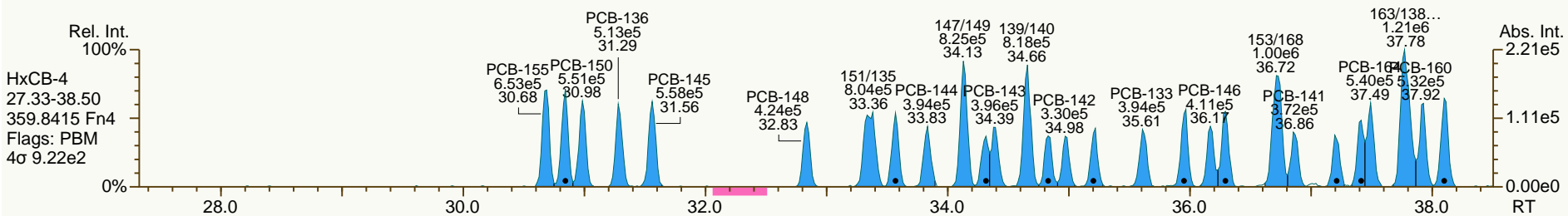
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

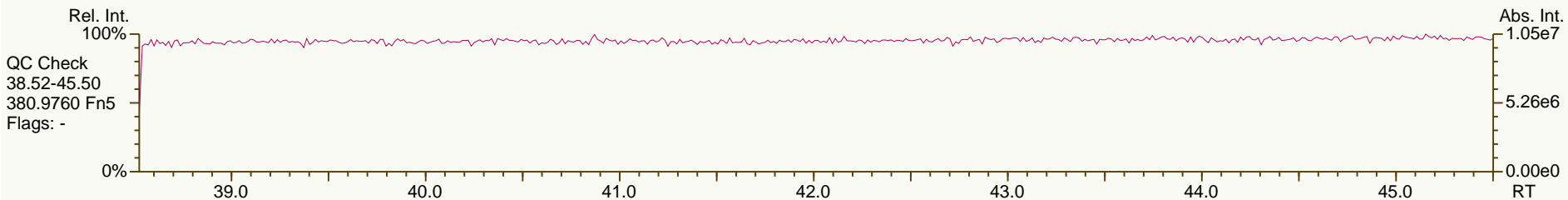
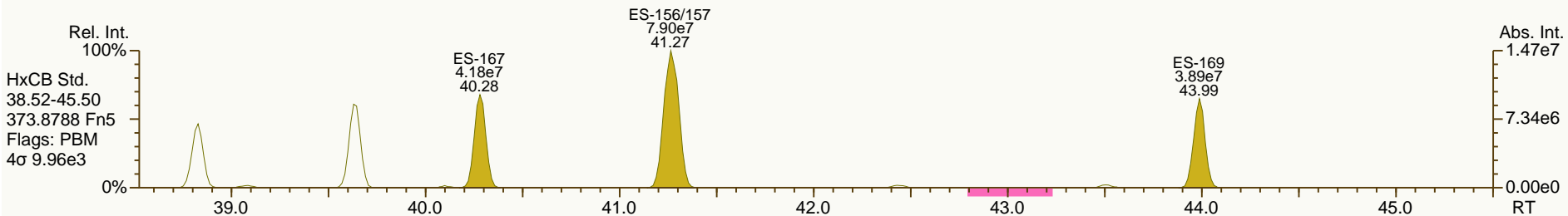
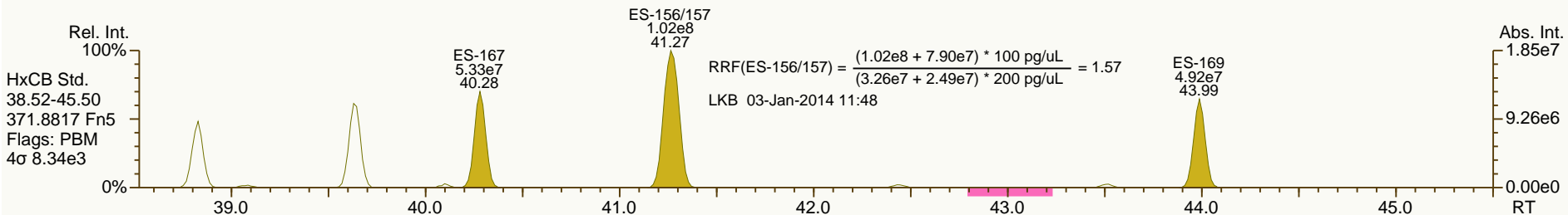
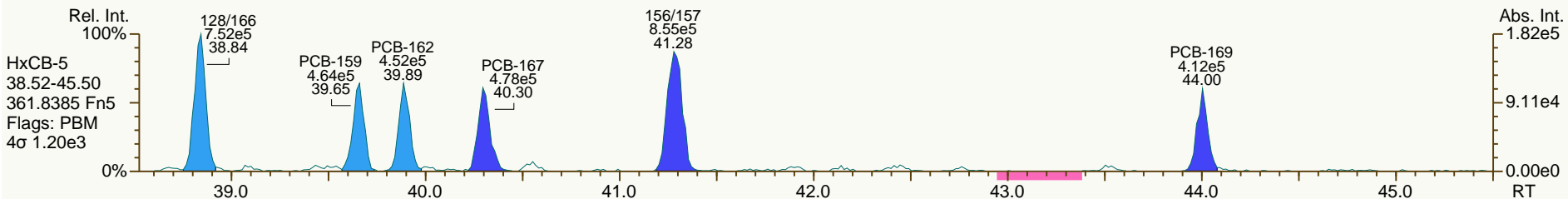
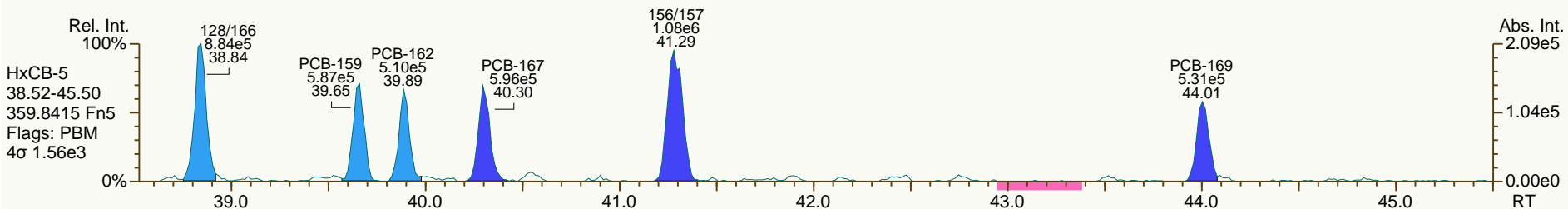
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

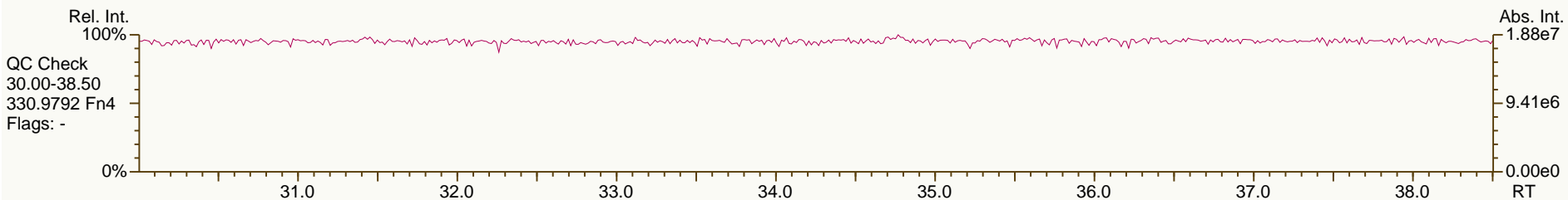
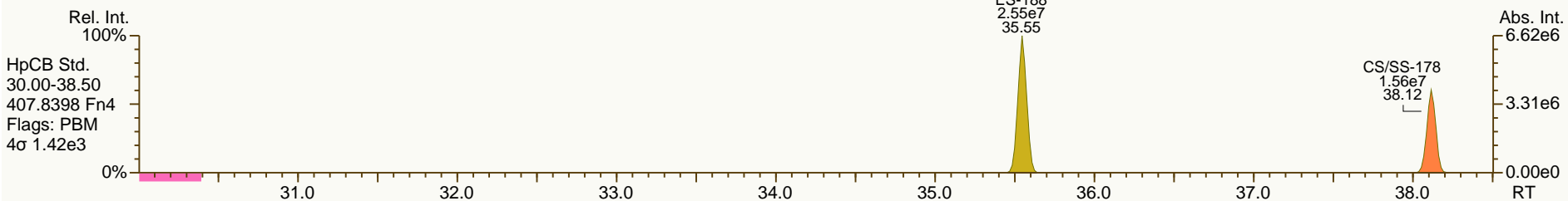
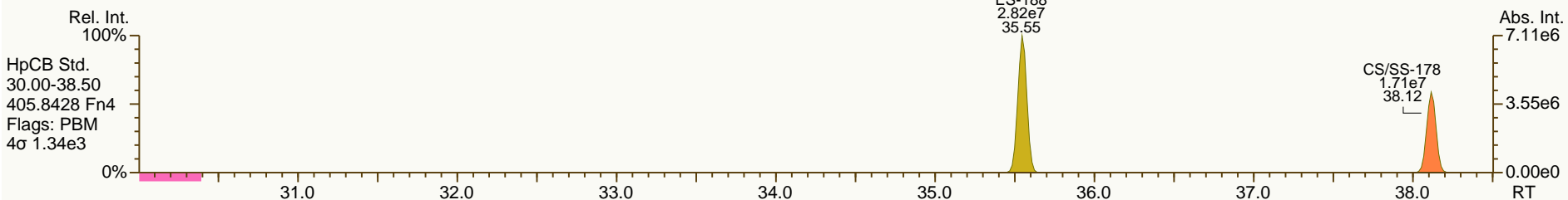
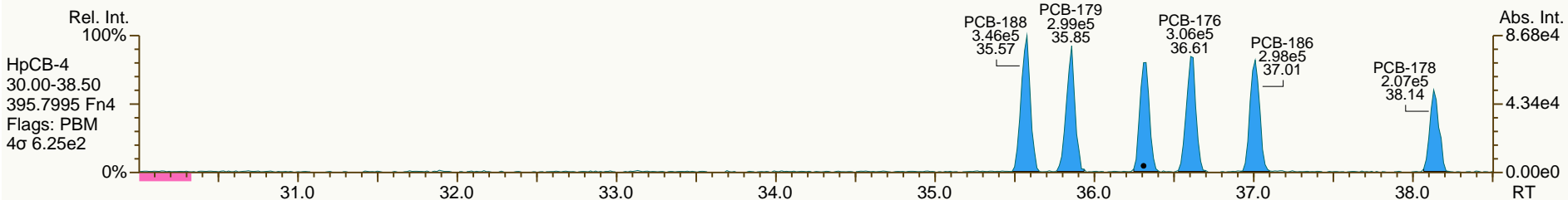
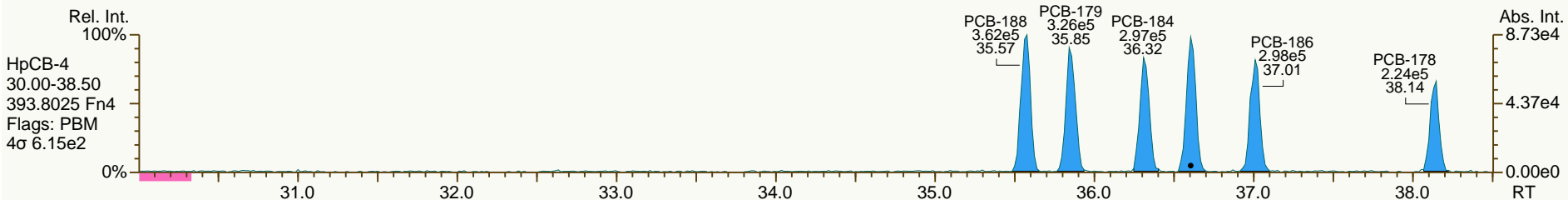
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

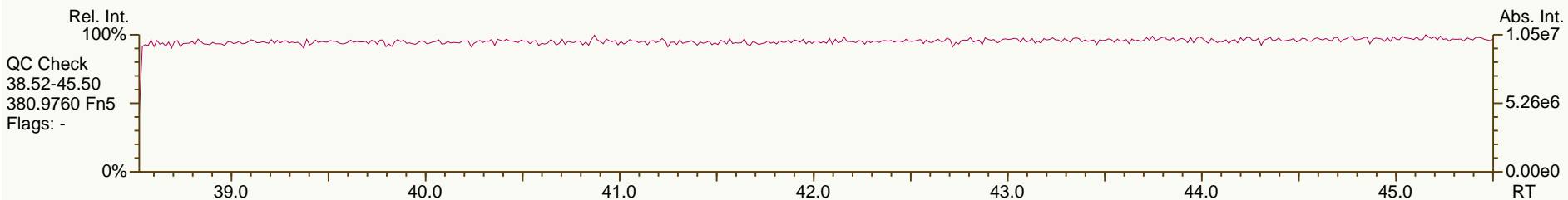
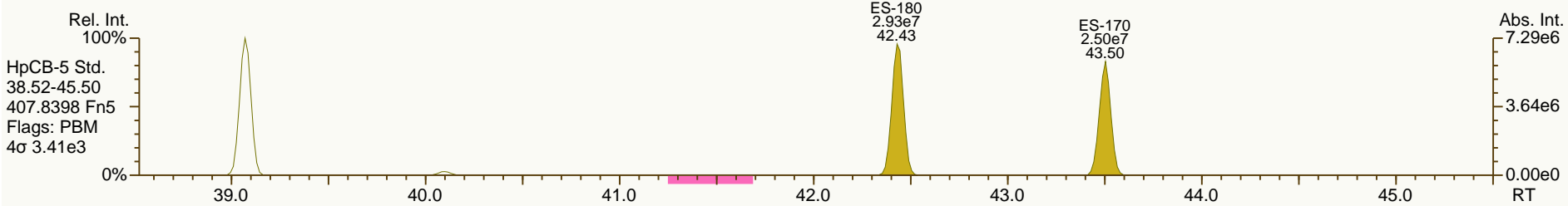
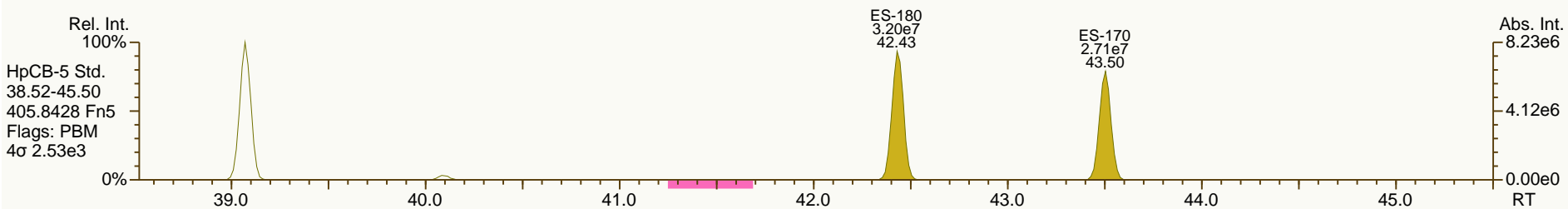
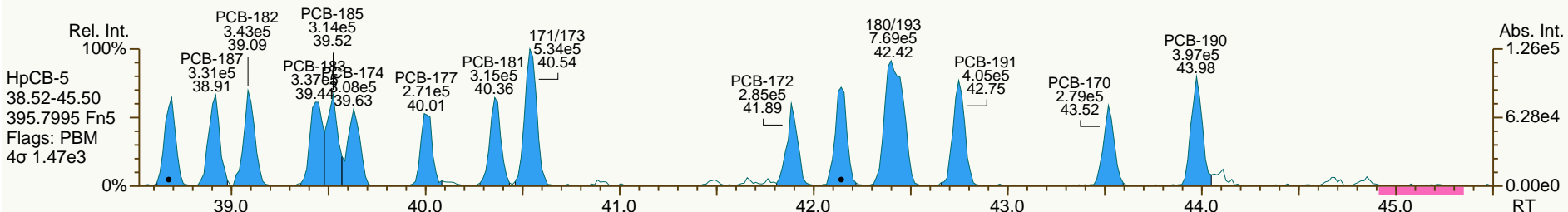
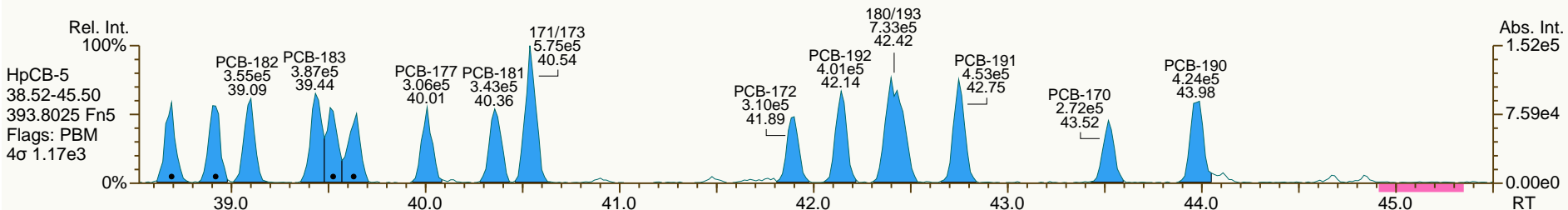
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

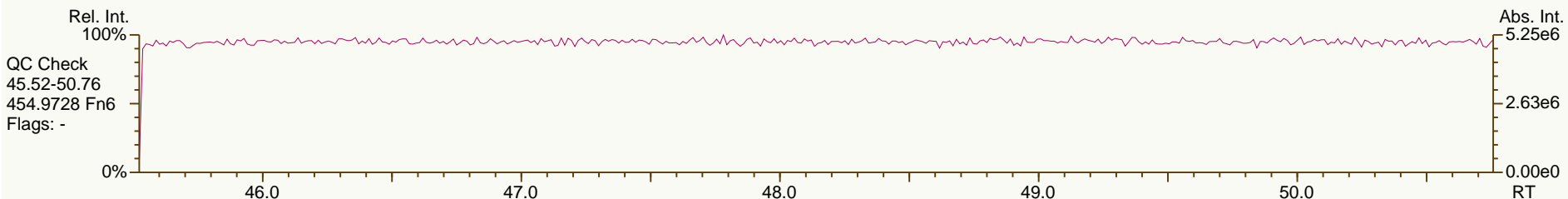
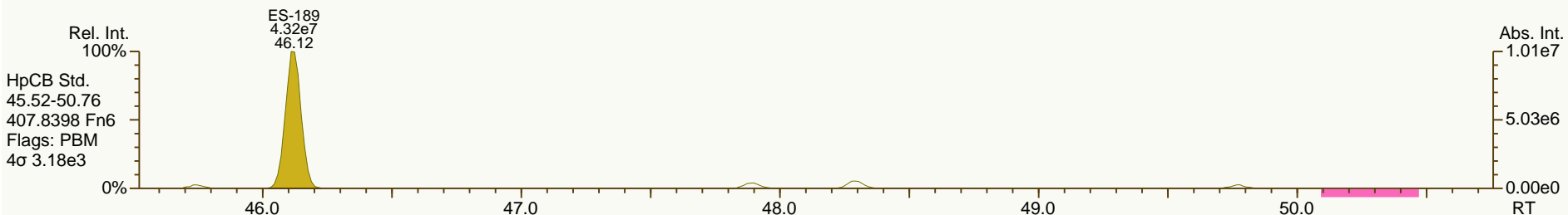
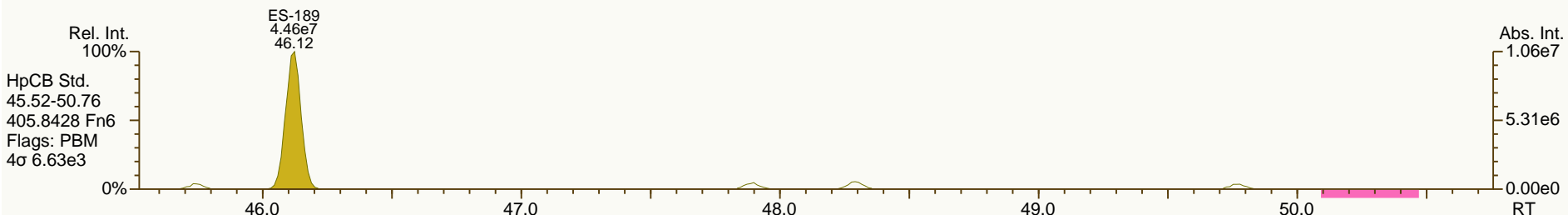
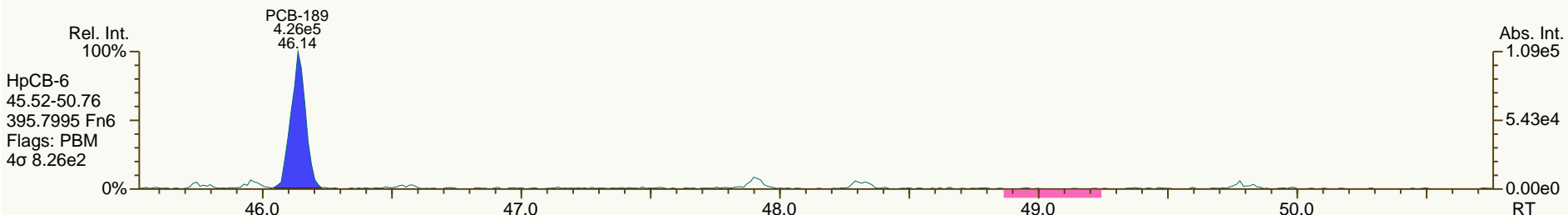
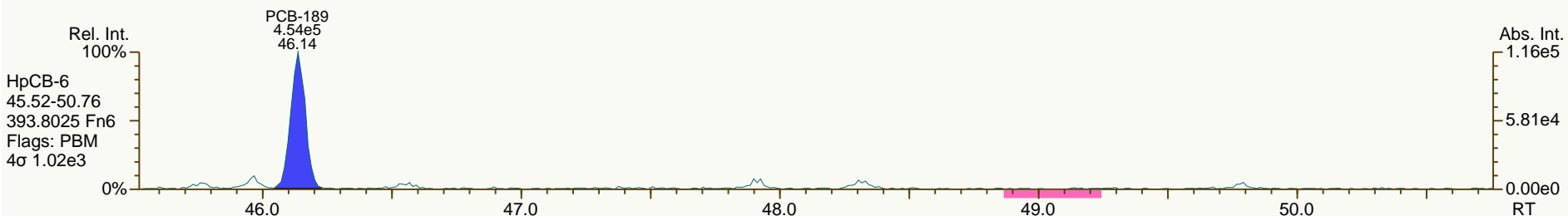
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03





SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

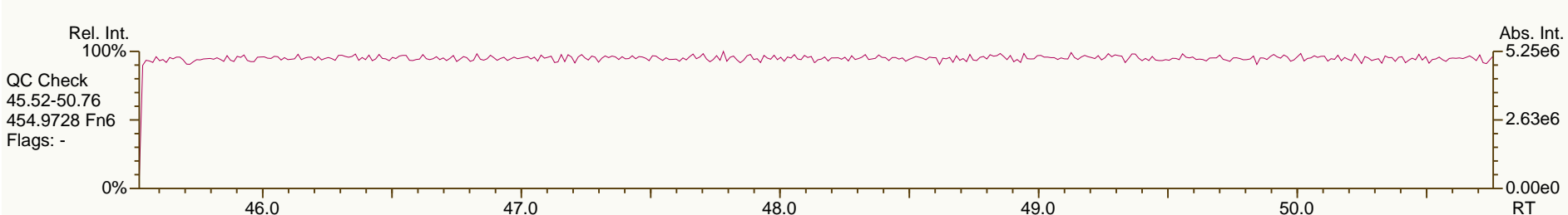
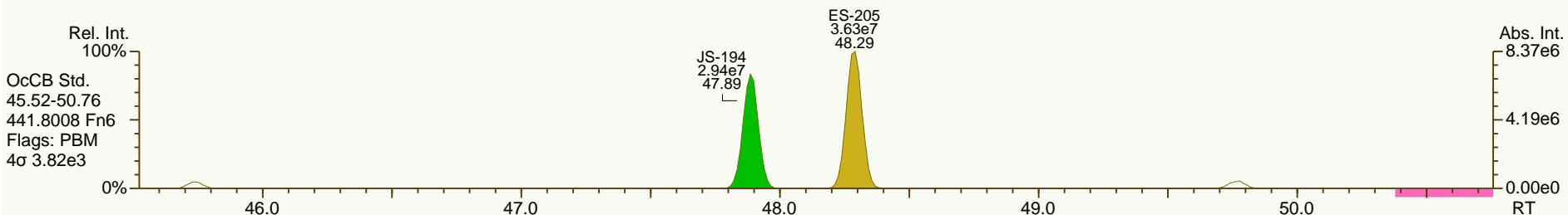
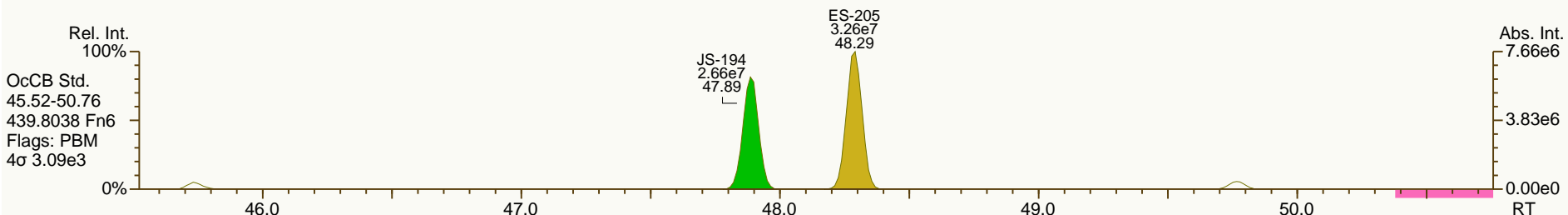
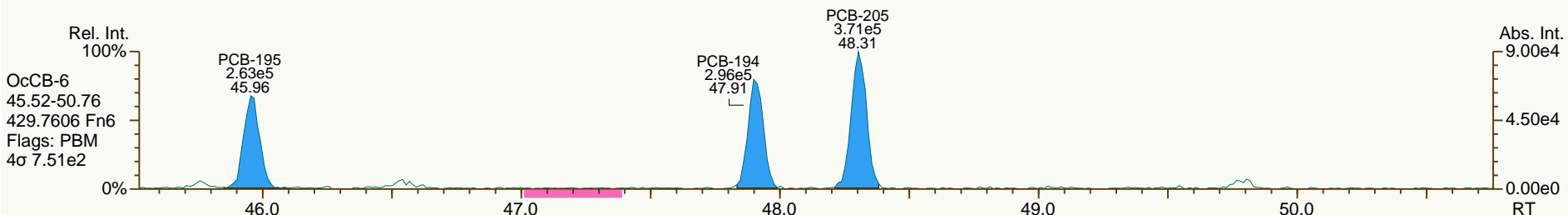
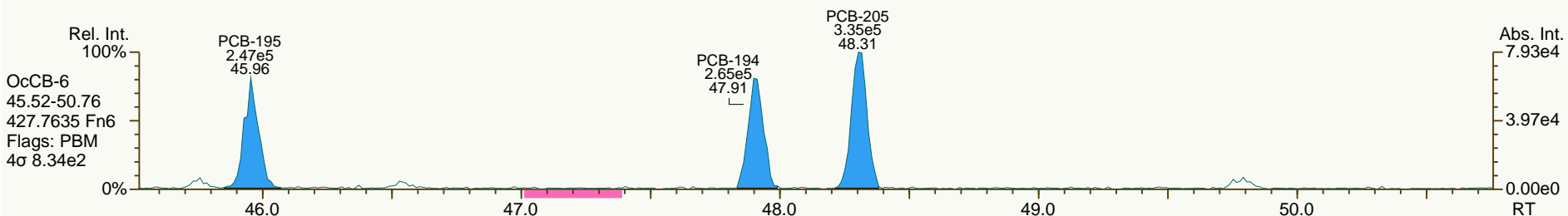
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

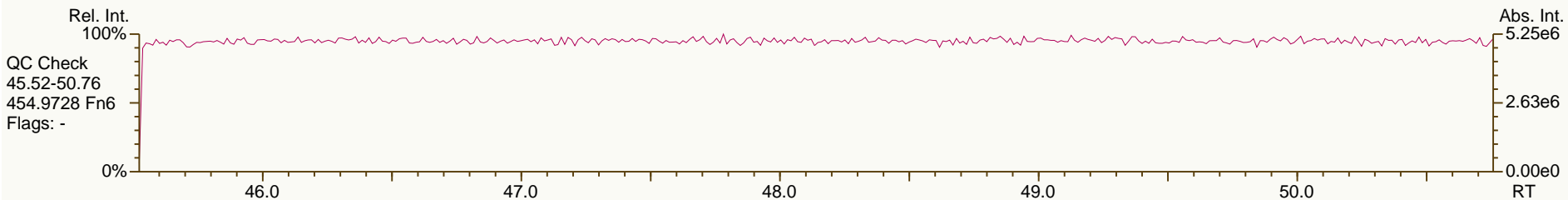
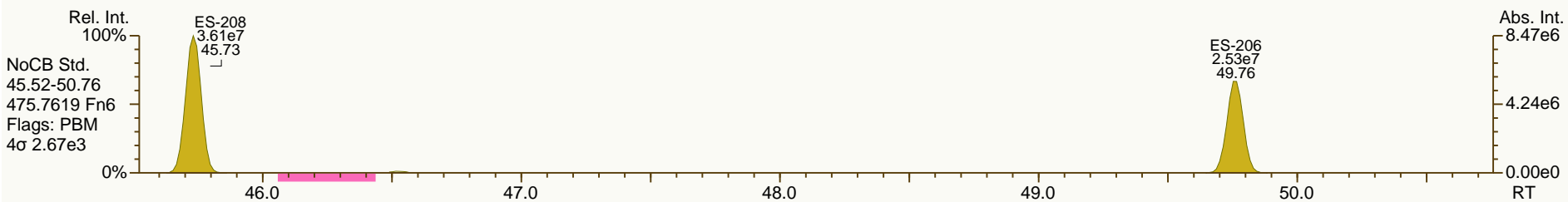
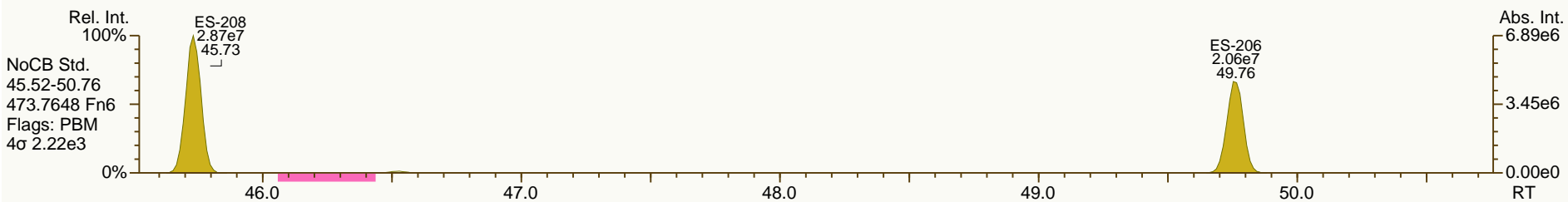
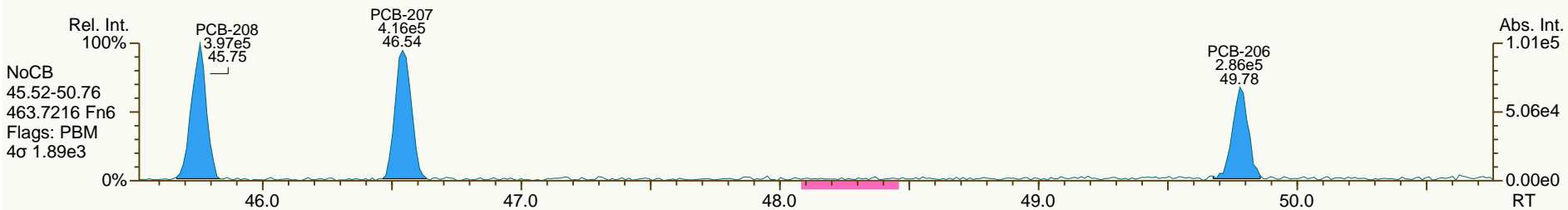
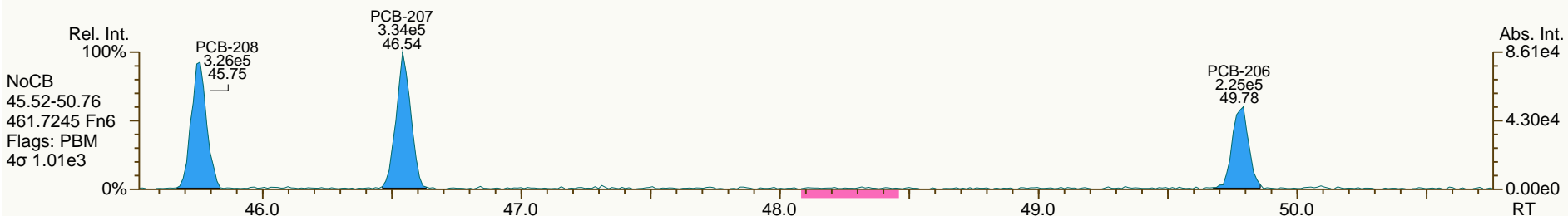
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

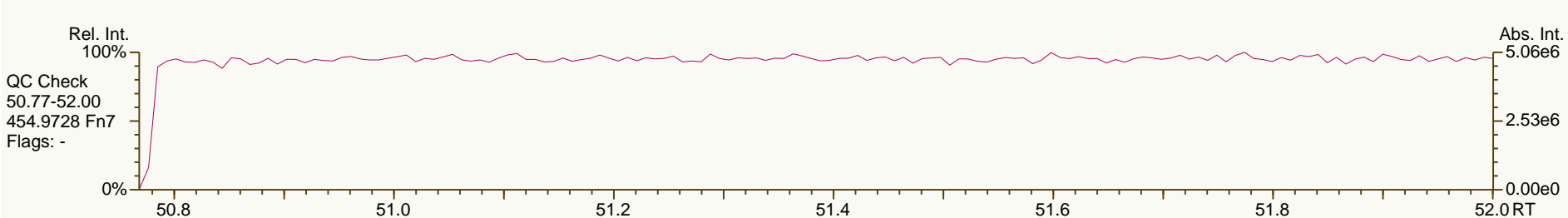
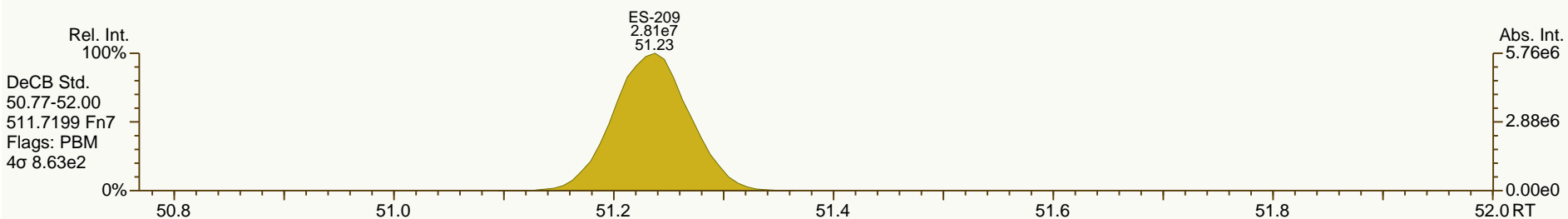
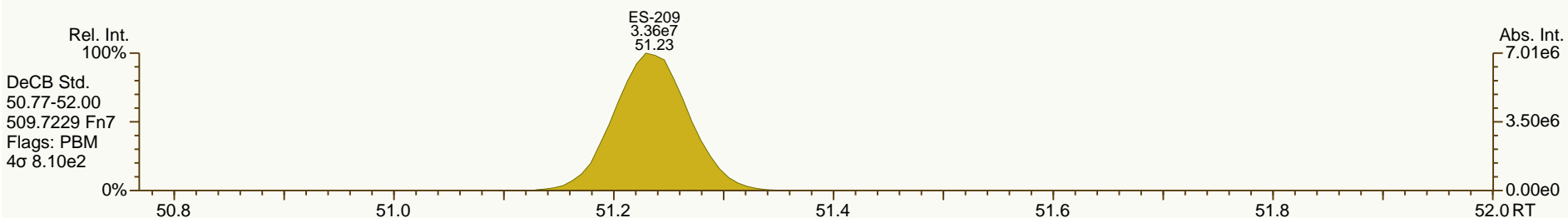
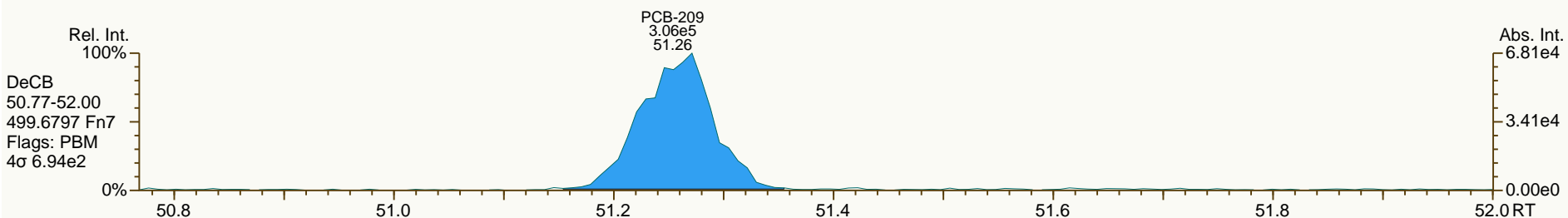
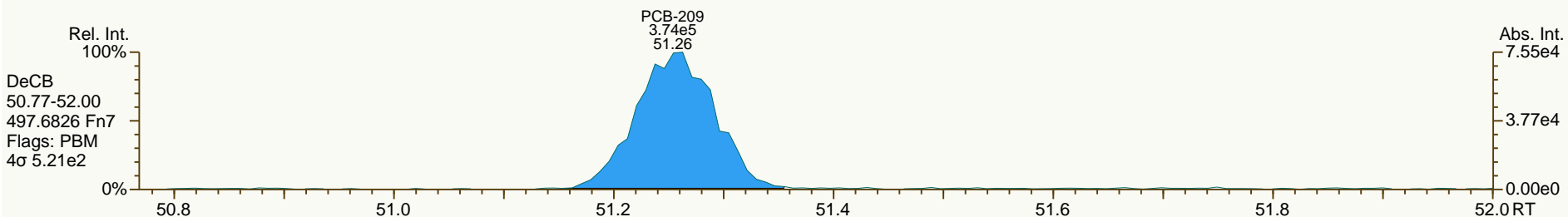
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	7.18E+06	0.79 Y	1.15	1.09	-5.2%	
PCB-81 344'5'-TeCB	32.63	6.81E+06	0.77 Y	1.12	1.08	-3.8%	
PCB-105 233'44'-PeCB	36.11	5.68E+06	0.64 Y	1.11	1.07	-4.0%	
PCB-114 2344'5'-PeCB	35.56	6.19E+06	0.62 Y	1.20	1.15	-4.1%	
PCB-118 23'44'5'-PeCB	35.10	5.72E+06	0.60 Y	1.19	1.13	-5.1%	
PCB-123 23'44'5'-PeCB	34.82	5.95E+06	0.63 Y	1.21	1.16	-3.9%	
PCB-126 33'44'5'-PeCB	38.72	4.77E+06	0.62 Y	1.11	1.05	-5.1%	
PCB-156/157 ...-HxCB	41.28	9.62E+06	1.25 Y	1.10	1.05	-4.7%	
PCB-167 23'44'55'-HxCB	40.29	5.42E+06	1.21 Y	1.16	1.12	-3.2%	
PCB-169 33'44'55'-HxCB	44.00	4.85E+06	1.23 Y	1.12	1.09	-3.1%	
PCB-189 233'44'55'-HpCB	46.13	4.61E+06	1.02 Y	1.07	1.03	-3.6%	
PCB-209 DeCB	51.25	3.38E+06	1.17 Y	1.11	1.06	-4.8%	
ES PCB-1	12.04	2.39E+08	3.26 Y	1.19	1.21	1.3%	
ES PCB-3	14.36	2.19E+08	3.37 Y	1.09	1.10	1.5%	
ES PCB-4	14.61	1.04E+08	1.62 Y	0.52	0.53	0.5%	
ES PCB-15	20.38	2.08E+08	1.56 Y	1.04	1.05	0.9%	
ES PCB-19	17.73	1.01E+08	1.08 Y	0.51	0.51	0.4%	
ES PCB-37	26.74	1.56E+08	1.09 Y	1.66	1.68	1.0%	
ES PCB-54	20.66	8.13E+07	0.82 Y	0.86	0.88	1.7%	
ES PCB-77	33.09	1.31E+08	0.80 Y	1.38	1.42	2.5%	
ES PCB-81	32.61	1.27E+08	0.80 Y	1.37	1.36	-0.2%	
ES PCB-104	25.67	7.00E+07	1.67 Y	0.80	0.82	2.2%	
ES PCB-105	36.08	1.06E+08	1.61 Y	1.20	1.25	3.7%	
ES PCB-114	35.54	1.07E+08	1.65 Y	1.22	1.26	3.3%	
ES PCB-118	35.07	1.01E+08	1.61 Y	1.16	1.19	2.4%	
ES PCB-123	34.79	1.02E+08	1.58 Y	1.19	1.20	1.1%	
ES PCB-126	38.70	9.09E+07	1.58 Y	1.03	1.07	3.7%	
ES PCB-153	36.66	6.37E+07	1.31 Y	1.11	1.13	1.3%	
ES PCB-155	30.64	9.19E+07	1.33 Y	1.59	1.63	2.5%	
ES PCB-156/157	41.26	1.84E+08	1.30 Y	1.60	1.63	1.9%	
ES PCB-167	40.27	9.64E+07	1.30 Y	1.67	1.71	2.3%	
ES PCB-169	43.98	8.90E+07	1.30 Y	1.56	1.58	1.3%	
ES PCB-170	43.49	5.32E+07	1.08 Y	0.95	0.96	1.0%	
ES PCB-180	42.42	6.31E+07	1.09 Y	1.14	1.13	-0.4%	
ES PCB-188	35.54	5.40E+07	1.06 Y	0.94	0.96	1.8%	
ES PCB-189	46.11	8.91E+07	1.03 Y	1.58	1.60	1.0%	
ES PCB-202	40.08	5.60E+07	0.94 Y	0.97	0.99	2.3%	
ES PCB-205	48.28	7.02E+07	0.89 Y	1.24	1.26	1.3%	
ES PCB-206	49.75	4.73E+07	0.81 Y	0.83	0.85	2.3%	
ES PCB-208	45.73	6.67E+07	0.80 Y	1.17	1.20	1.9%	
ES PCB-209	51.23	6.37E+07	1.19 Y	1.11	1.14	3.2%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.73E+08	1.09 Y	1.11	1.11	-0.2%	
SS PCB-111	33.11	1.05E+08	1.62 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	3.27E+07	1.12 Y	0.62	0.61	-2.3%	
CS PCB-28	23.16	1.73E+08	1.09 Y	1.85	1.86	0.9%	
CS PCB-111	33.11	1.05E+08	1.62 Y	1.22	1.23	1.1%	
CS PCB-178	38.10	3.27E+07	1.12 Y	0.58	0.58	-0.5%	
JS PCB-9	16.61	1.98E+08	1.57 Y	-	-	-	
JS PCB-52	24.79	9.28E+07	0.79 Y	-	-	-	
JS PCB-101	30.81	8.53E+07	1.59 Y	-	-	-	
JS PCB-138	37.73	5.64E+07	1.31 Y	-	-	-	
JS PCB-194	47.88	5.57E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-2 3-MoCB	14.18	1.07E+07	3.30 Y	1.03	0.98	-5.2%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-10 26'-DiCB	14.81	1.01E+07	1.59 Y	1.98	1.93	-2.5%	
PCB-9 25'-DiCB	16.63	9.38E+06	1.58 Y	0.95	0.90	-4.6%	
PCB-7 24'-DiCB	16.80	1.06E+07	1.65 Y	1.05	1.02	-2.9%	
PCB-6 23'-DiCB	17.03	9.98E+06	1.58 Y	1.00	0.96	-3.7%	
PCB-5 23'-DiCB	17.33	1.00E+07	1.62 Y	1.00	0.96	-3.7%	
PCB-8 24'-DiCB	17.45	1.05E+07	1.60 Y	1.03	1.00	-2.7%	
PCB-14 35'-DiCB	19.02	1.19E+07	1.61 Y	1.18	1.15	-2.9%	
PCB-11 33'-DiCB	19.81	1.03E+07	1.64 Y	1.01	0.99	-1.9%	
PCB-13/12 34'/34'-DiCB	20.11	2.02E+07	1.61 Y	0.99	0.97	-1.7%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-30/18 246/22'5'-TrCB	19.52	1.52E+07	1.08 Y	1.54	1.51	-1.8%	
PCB-17 22'4'-TrCB	19.93	6.40E+06	1.08 Y	1.31	1.27	-2.7%	
PCB-27 23'6'-TrCB	20.12	8.92E+06	1.07 Y	1.82	1.77	-2.6%	
PCB-24 236'-TrCB	20.26	8.42E+06	1.05 Y	1.72	1.67	-3.0%	
PCB-16 22'3'-TrCB	20.35	5.03E+06	1.05 Y	1.01	1.00	-0.7%	
PCB-32 24'6'-TrCB	20.84	9.31E+06	1.07 Y	1.92	1.85	-3.7%	
PCB-34 23'5'-TrCB	21.99	8.68E+06	0.97 Y	1.14	1.11	-1.9%	
PCB-23 235'-TrCB	22.14	8.57E+06	1.00 Y	1.16	1.10	-4.7%	
PCB-26/29 23'5'/245'-TrCB	22.43	1.76E+07	0.99 Y	1.17	1.13	-3.4%	
PCB-25 23'4'-TrCB	22.63	8.79E+06	0.95 Y	1.16	1.13	-2.4%	
PCB-31 24'5'-TrCB	22.91	9.29E+06	0.97 Y	1.23	1.19	-2.7%	
PCB-28/20 244'/233'-TrCB	23.19	1.69E+07	1.00 Y	1.13	1.08	-4.3%	
PCB-21/33 234'/23'4'-TrCB	23.38	1.76E+07	0.99 Y	1.17	1.13	-3.7%	
PCB-22 234'-TrCB	23.75	8.06E+06	1.00 Y	1.08	1.04	-4.1%	
PCB-36 33'5'-TrCB	25.14	8.80E+06	0.98 Y	1.17	1.13	-3.4%	
PCB-39 34'5'-TrCB	25.46	9.00E+06	0.97 Y	1.21	1.16	-4.5%	
PCB-38 345'-TrCB	26.00	8.25E+06	0.97 Y	1.10	1.06	-4.0%	
PCB-35 33'4'-TrCB	26.39	7.78E+06	1.00 Y	1.04	1.00	-3.9%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.07E+07	0.80 Y	0.88	0.84	-3.9%	
PCB-45 22'36'-TeCB	23.27	4.46E+06	0.79 Y	0.77	0.70	-8.2%	
PCB-51 22'46'-TeCB	23.34	5.62E+06	0.80 Y	0.86	0.89	3.3%	
PCB-46 22'36'-TeCB	23.55	4.33E+06	0.78 Y	0.70	0.68	-2.0%	
PCB-52 22'55'-TeCB	24.82	5.19E+06	0.79 Y	0.84	0.82	-2.8%	
PCB-73 23'5'6'-TeCB	24.94	6.70E+06	0.79 Y	1.11	1.06	-4.8%	
PCB-43 22'35'-TeCB	25.04	4.56E+06	0.75 Y	0.71	0.72	1.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	1.26E+07	0.79 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	5.24E+06	0.81 Y	0.84	0.83	-1.3%	
PCB-44/47/65 ...-TeCB	25.74	1.64E+07	0.78 Y	0.90	0.86	-4.4%	
PCB-59/62/75 ...-TeCB	26.02	2.14E+07	0.79 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.18	4.75E+06	0.78 Y	0.76	0.75	-1.7%	
PCB-41 22'34'-TeCB	26.52	4.38E+06	0.79 Y	0.69	0.69	-0.5%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.05E+07	0.81 Y	0.86	0.83	-3.8%	
PCB-64 234'6'-TeCB	26.81	7.49E+06	0.79 Y	1.22	1.18	-3.0%	
PCB-72 23'55'-TeCB	27.53	7.51E+06	0.80 Y	1.21	1.19	-1.9%	
PCB-68 23'45'-TeCB	27.79	7.85E+06	0.75 Y	1.28	1.24	-2.8%	
PCB-57 233'5'-TeCB	28.16	7.33E+06	0.77 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.37	7.30E+06	0.76 Y	1.18	1.15	-2.1%	
PCB-67 23'45'-TeCB	28.52	7.81E+06	0.77 Y	1.26	1.23	-2.0%	
PCB-63 234'5'-TeCB	28.75	7.85E+06	0.76 Y	1.30	1.24	-4.4%	
PCB-61/70/74/76 ...-TeCB	29.05	2.94E+07	0.79 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.33	6.87E+06	0.76 Y	1.10	1.09	-1.5%	
PCB-55 233'4'-TeCB	29.47	7.07E+06	0.79 Y	1.12	1.12	-0.3%	
PCB-56 233'4'-TeCB	29.91	6.96E+06	0.77 Y	1.11	1.10	-1.0%	
PCB-60 2344'-TeCB	30.11	7.00E+06	0.78 Y	1.14	1.11	-2.5%	
PCB-80 33'55'-TeCB	30.43	8.09E+06	0.80 Y	1.31	1.28	-2.7%	
PCB-79 33'45'-TeCB	31.76	8.10E+06	0.78 Y	1.31	1.28	-2.0%	
PCB-78 33'45'-TeCB	32.25	6.61E+06	0.79 Y	1.06	1.04	-1.6%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-96 22'366'-PeCB	26.01	4.21E+06	0.65 Y	1.23	1.20	-2.0%	
PCB-103 22'45'6'-PeCB	27.71	4.65E+06	0.62 Y	0.93	0.91	-2.2%	
PCB-94 22'356'-PeCB	27.90	4.04E+06	0.63 Y	0.80	0.79	-1.3%	
PCB-95 22'35'6'-PeCB	28.28	4.36E+06	0.62 Y	0.87	0.85	-1.5%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	8.64E+06	0.63 Y	0.86	0.85	-2.1%	
PCB-102 22'456'-PeCB	28.61	5.08E+06	0.63 Y	0.97	0.99	2.6%	
PCB-98 22'34'6'-PeCB	28.68	3.64E+06	0.64 Y	0.76	0.71	-6.0%	
PCB-88 22'346'-PeCB	28.98	3.75E+06	0.65 Y	0.80	0.73	-8.2%	
PCB-91 22'34'6'-PeCB	29.04	4.80E+06	0.63 Y	0.94	0.94	-0.5%	
PCB-84 22'33'6'-PeCB	29.24	3.58E+06	0.61 Y	0.72	0.70	-2.1%	
PCB-89 22'346'-PeCB	29.66	3.81E+06	0.62 Y	0.76	0.75	-2.3%	
PCB-121 23'45'6'-PeCB	30.00	5.96E+06	0.63 Y	1.20	1.16	-2.9%	
PCB-92 22'355'-PeCB	30.32	4.05E+06	0.62 Y	0.82	0.79	-3.5%	
PCB-113/90/101 ...-PeCB	30.81	1.47E+07	0.63 Y	0.99	0.96	-2.5%	
PCB-83 22'33'5'-PeCB	31.25	3.64E+06	0.59 Y	0.71	0.71	-0.4%	
PCB-99 22'44'5'-PeCB	31.34	4.49E+06	0.64 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.44	5.95E+06	0.63 Y	1.17	1.16	-0.4%	
PCB-108/119/86/97/125...-PeCB	31.79	2.92E+07	0.62 Y	0.98	0.95	-2.9%	
PCB-117 234'56'-PeCB	32.33	5.88E+06	0.62 Y	1.14	1.15	1.1%	
PCB-116/85 23456/22'344'-PeCB	32.42	9.01E+06	0.64 Y	0.94	0.88	-6.3%	
PCB-110 233'4'6'-PeCB	32.53	5.43E+06	0.63 Y	1.12	1.06	-5.0%	



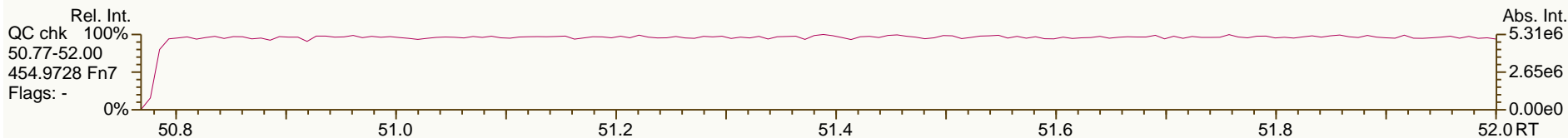
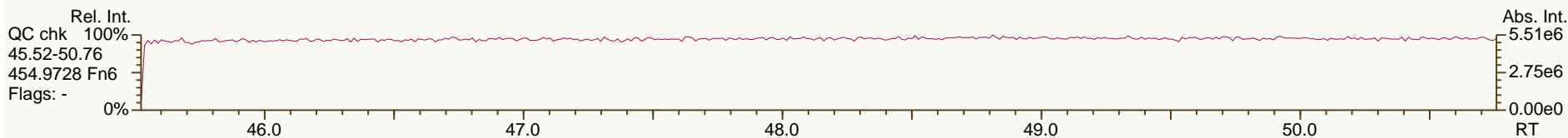
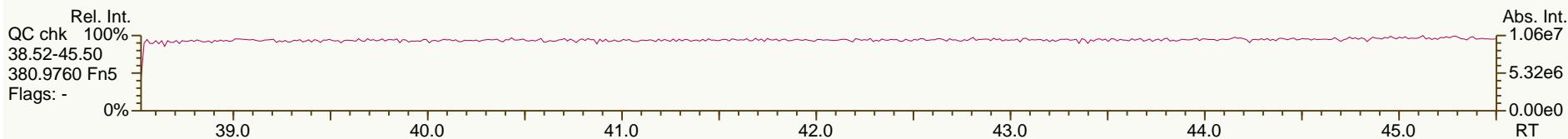
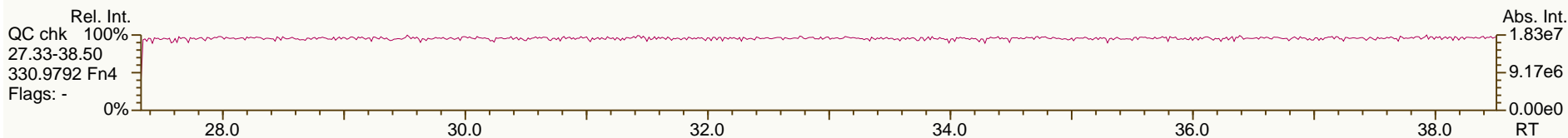
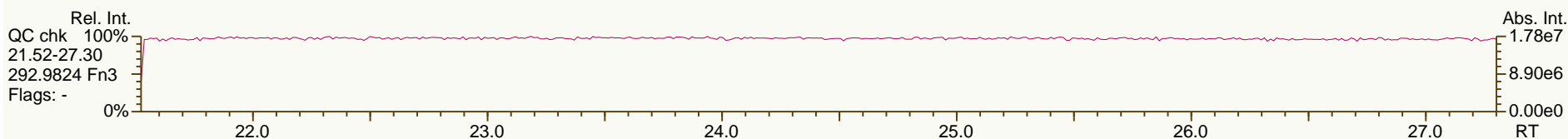
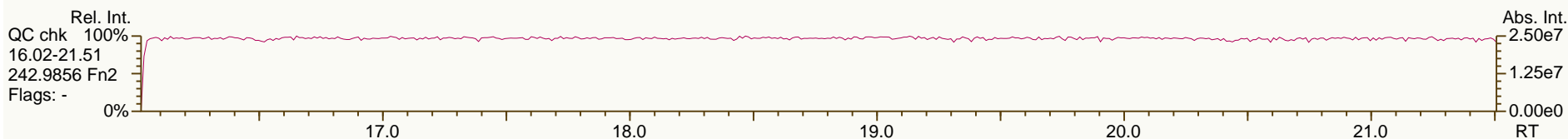
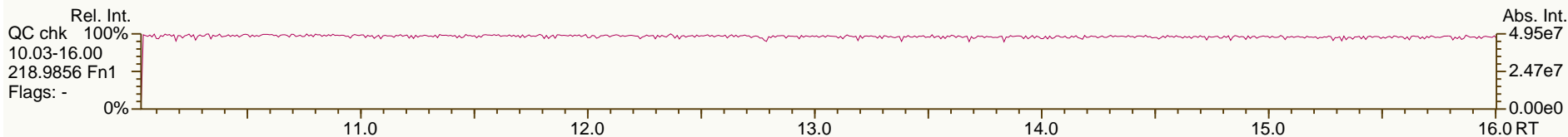
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.94E+06	0.60 Y	1.16	1.16	0.3%	
PCB-82 22'33'4-PeCB	32.82	3.45E+06	0.62 Y	0.70	0.67	-3.3%	
PCB-111 233'55'-PeCB	33.13	6.10E+06	0.63 Y	1.22	1.19	-2.3%	
PCB-120 23'455'-PeCB	33.53	6.04E+06	0.64 Y	1.21	1.18	-2.5%	
PCB-107/124 ...-PeCB	34.50	1.09E+07	0.62 Y	1.10	1.07	-2.9%	
PCB-109 233'46-PeCB	34.71	6.46E+06	0.62 Y	1.25	1.26	0.8%	
PCB-106 233'45-PeCB	34.93	5.32E+06	0.64 Y	1.11	1.04	-5.8%	
PCB-122 233'4'5'-PeCB	35.39	5.09E+06	0.64 Y	0.99	0.95	-4.5%	
PCB-127 33'455'-PeCB	37.34	5.46E+06	0.62 Y	1.10	1.03	-6.2%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-152 22'3566'-HxCB	30.82	5.18E+06	1.28 Y	1.17	1.13	-3.8%	
PCB-150 22'34'66'-HxCB	30.97	5.27E+06	1.27 Y	1.18	1.15	-2.5%	
PCB-136 22'33'66'-HxCB	31.27	4.80E+06	1.26 Y	1.07	1.04	-2.1%	
PCB-145 22'3466'-HxCB	31.55	4.89E+06	1.31 Y	1.11	1.06	-4.5%	
PCB-148 22'34'56'-HxCB	32.82	3.69E+06	1.28 Y	1.18	1.16	-2.2%	
PCB-151/135 ...-HxCB	33.34	7.14E+06	1.23 Y	1.14	1.12	-1.6%	
PCB-154 22'44'56'-HxCB	33.55	4.14E+06	1.24 Y	1.34	1.30	-3.2%	
PCB-144 22'345'6'-HxCB	33.82	3.74E+06	1.28 Y	1.18	1.17	-0.8%	
PCB-147/149 ...-HxCB	34.12	7.38E+06	1.29 Y	1.18	1.16	-1.6%	
PCB-134 22'33'56-HxCB	34.29	2.81E+06	1.29 Y	0.92	0.88	-4.5%	
PCB-143 22'3456'-HxCB	34.38	3.63E+06	1.26 Y	1.13	1.14	0.8%	
PCB-139/140 ...-HxCB	34.64	7.45E+06	1.28 Y	1.21	1.17	-3.0%	
PCB-131 22'33'46-HxCB	34.82	3.13E+06	1.29 Y	1.03	0.98	-4.2%	
PCB-142 22'3456-HxCB	34.96	3.09E+06	1.24 Y	0.99	0.97	-1.9%	
PCB-132 22'33'46'-HxCB	35.20	3.22E+06	1.28 Y	1.03	1.01	-2.1%	
PCB-133 22'33'55'-HxCB	35.60	3.47E+06	1.26 Y	1.13	1.09	-3.9%	
PCB-165 233'55'6-HxCB	35.94	4.45E+06	1.24 Y	1.41	1.40	-0.9%	
PCB-146 22'34'55'-HxCB	36.16	3.72E+06	1.30 Y	1.20	1.17	-2.9%	
PCB-161 233'45'6-HxCB	36.28	4.78E+06	1.30 Y	1.52	1.50	-1.4%	
PCB-153/168 ...-HxCB	36.71	9.14E+06	1.28 Y	1.46	1.43	-1.6%	
PCB-141 22'3455'-HxCB	36.85	3.40E+06	1.30 Y	1.09	1.07	-2.0%	
PCB-130 22'33'45'-HxCB	37.20	3.05E+06	1.25 Y	0.97	0.96	-1.7%	
PCB-137 22'344'5-HxCB	37.40	3.51E+06	1.28 Y	1.16	1.10	-5.3%	
PCB-164 233'4'5'6-HxCB	37.48	4.84E+06	1.28 Y	1.50	1.52	1.3%	
PCB-163/138/129 ...-HxCB	37.77	1.09E+07	1.27 Y	1.19	1.14	-3.9%	
PCB-160 233'456-HxCB	37.91	4.74E+06	1.26 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.09	5.15E+06	1.28 Y	1.66	1.62	-2.7%	
PCB-128/166 ...-HxCB	38.83	8.23E+06	1.25 Y	0.90	0.85	-5.1%	
PCB-159 233'455'-HxCB	39.64	5.14E+06	1.24 Y	1.11	1.07	-4.4%	
PCB-162 233'4'55'-HxCB	39.88	4.97E+06	1.21 Y	1.07	1.03	-3.7%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-179 22'33'566'-HpCB	35.84	3.06E+06	1.09 Y	1.16	1.13	-2.3%	
PCB-184 22'344'66'-HpCB	36.30	2.96E+06	1.03 Y	1.13	1.10	-2.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.29E+06	1.07 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.00	2.98E+06	1.06 Y	1.13	1.10	-1.9%	
PCB-178 22'33'55'6'-HpCB	38.13	2.21E+06	1.08 Y	0.84	0.82	-2.7%	
PCB-175 22'33'45'6'-HpCB	38.67	3.31E+06	1.06 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.90	3.49E+06	0.96 Y	1.14	1.11	-2.9%	
PCB-182 22'344'56'-HpCB	39.08	3.67E+06	1.07 Y	1.18	1.16	-1.0%	
PCB-183 22'344'5'6'-HpCB	39.43	3.83E+06	1.05 Y	1.20	1.21	0.7%	
PCB-185 22'3455'6'-HpCB	39.52	3.13E+06	1.08 Y	1.06	0.99	-6.4%	
PCB-174 22'33'456'-HpCB	39.62	3.03E+06	1.07 Y	0.99	0.96	-2.8%	
PCB-177 22'33'45'6'-HpCB	40.00	2.93E+06	1.10 Y	0.95	0.93	-2.3%	
PCB-181 22'344'56'-HpCB	40.35	3.27E+06	1.08 Y	1.09	1.04	-4.9%	
PCB-171/173 ...-HpCB	40.53	5.79E+06	1.06 Y	0.95	0.92	-3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.98E+06	1.07 Y	0.99	0.95	-4.3%	
PCB-192 233'455'6'-HpCB	42.13	4.03E+06	1.06 Y	1.29	1.28	-0.7%	
PCB-180/193 ...-HpCB	42.41	7.75E+06	1.08 Y	1.26	1.23	-2.6%	
PCB-191 233'44'5'6'-HpCB	42.74	4.20E+06	1.05 Y	1.40	1.33	-4.6%	
PCB-170 22'33'44'5'-HpCB	43.51	2.91E+06	1.04 Y	1.14	1.09	-3.7%	
PCB-190 233'44'56'-HpCB	43.97	4.21E+06	1.06 Y	1.66	1.58	-4.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-201 22'33'45'66'-OcCB	40.89	3.33E+06	0.92 Y	1.22	1.19	-2.7%	
PCB-204 22'344'566'-OcCB	41.47	3.01E+06	0.94 Y	1.12	1.08	-3.6%	
PCB-197 22'33'44'66'-OcCB	41.66	3.09E+06	0.91 Y	1.19	1.11	-7.1%	
PCB-200 22'33'4566'-OcCB	41.75	3.13E+06	0.89 Y	1.11	1.12	1.0%	
PCB-198/199 ...-OcCB	44.08	4.38E+06	0.92 Y	0.81	0.78	-3.4%	
PCB-196 22'33'44'56'-OcCB	44.66	2.29E+06	0.94 Y	0.83	0.82	-1.8%	
PCB-203 22'344'55'6'-OcCB	44.83	2.39E+06	0.93 Y	0.87	0.85	-2.2%	
PCB-195 22'33'44'56'-OcCB	45.95	2.57E+06	0.90 Y	0.77	0.73	-4.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.84E+06	0.87 Y	0.84	0.81	-4.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-207 22'33'44'566'-NoCB	46.54	3.79E+06	0.76 Y	1.19	1.14	-4.4%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

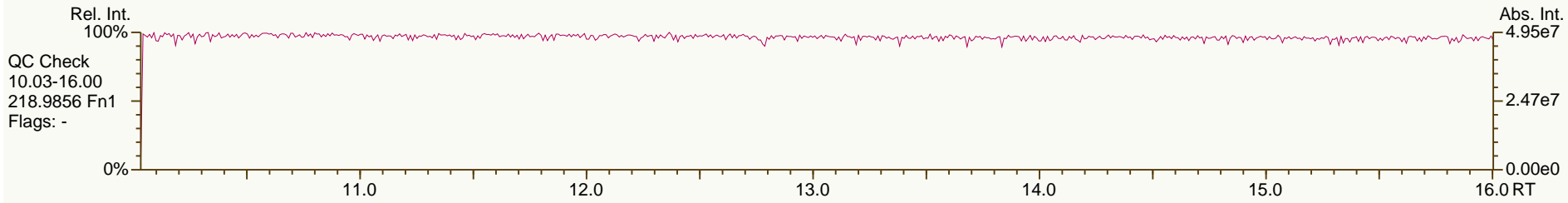
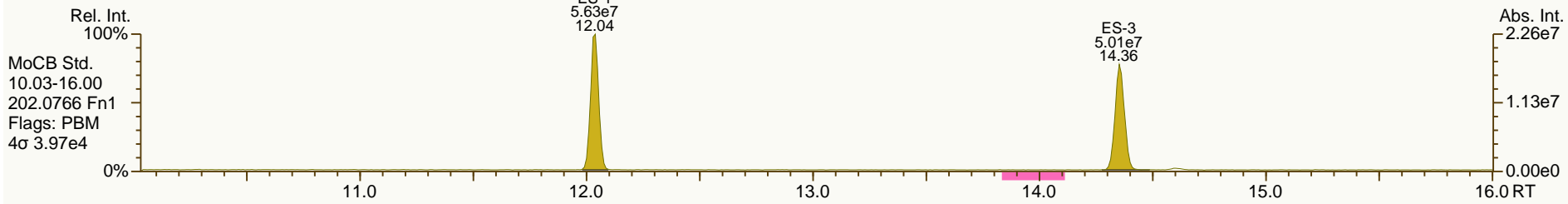
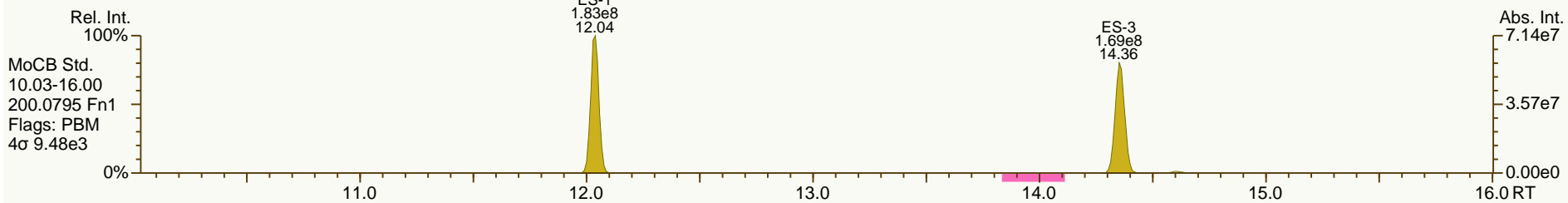
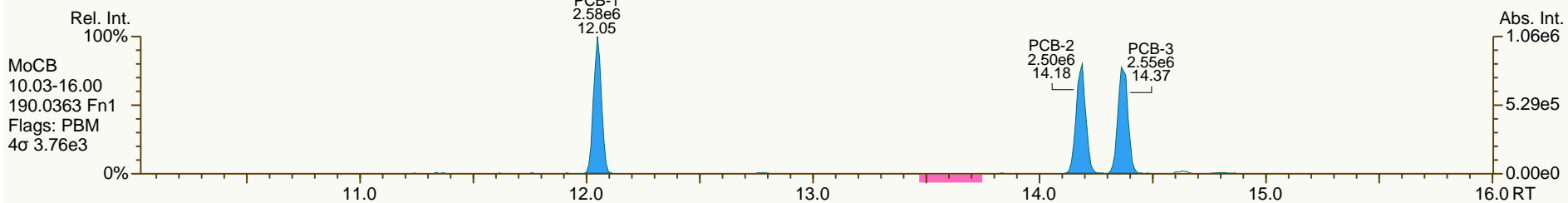
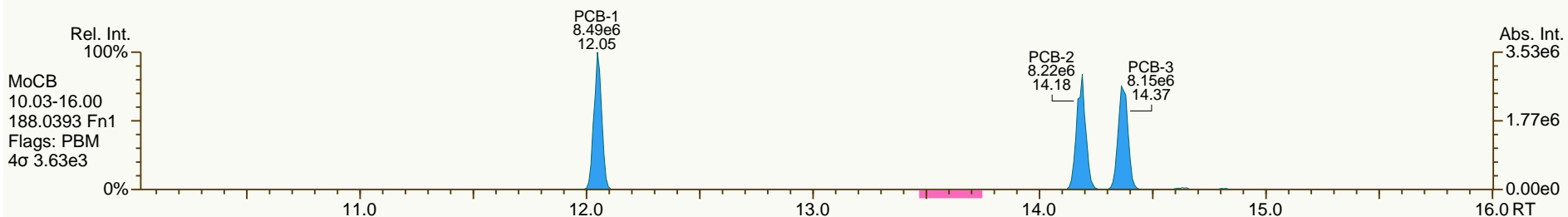
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

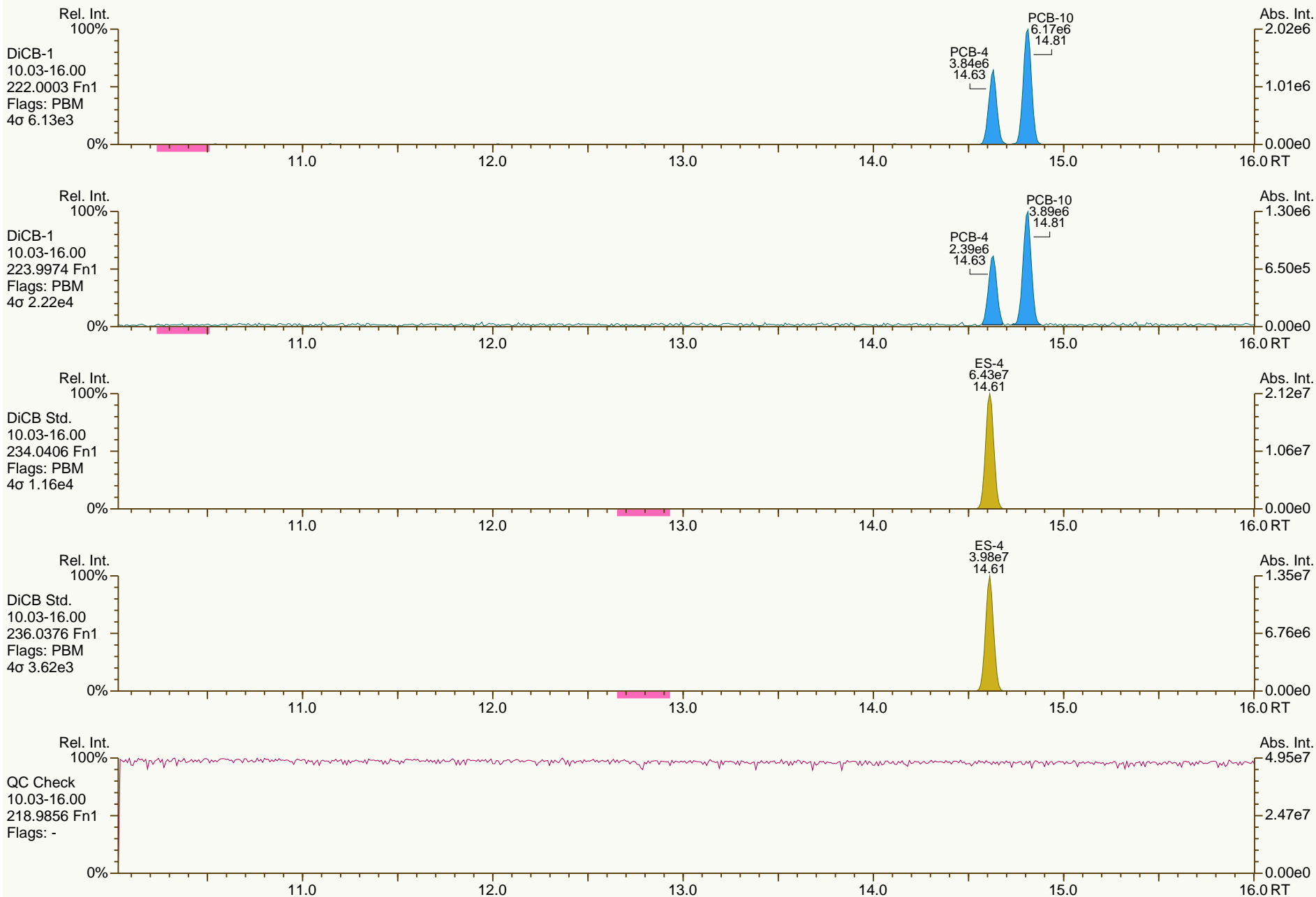
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

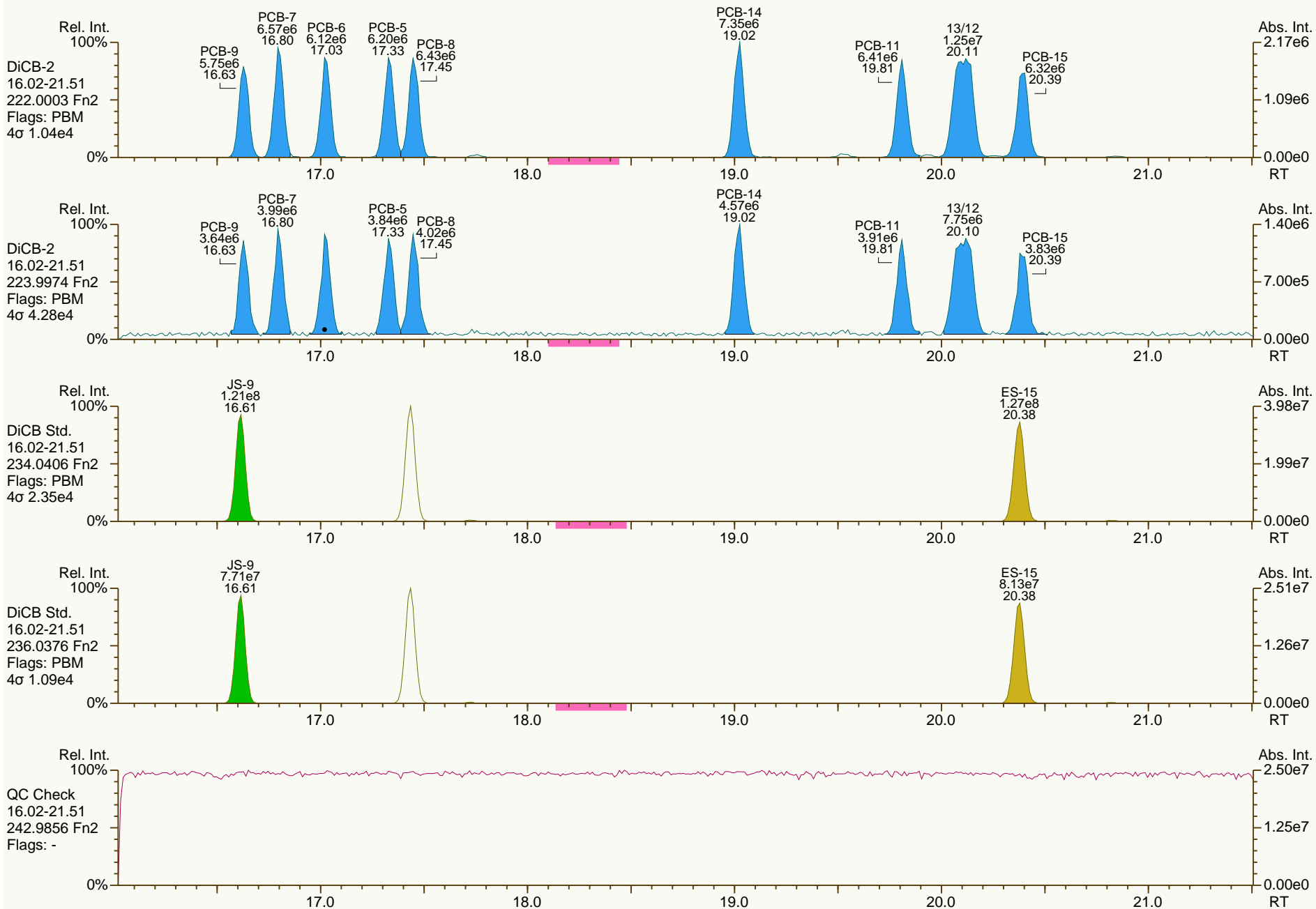
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

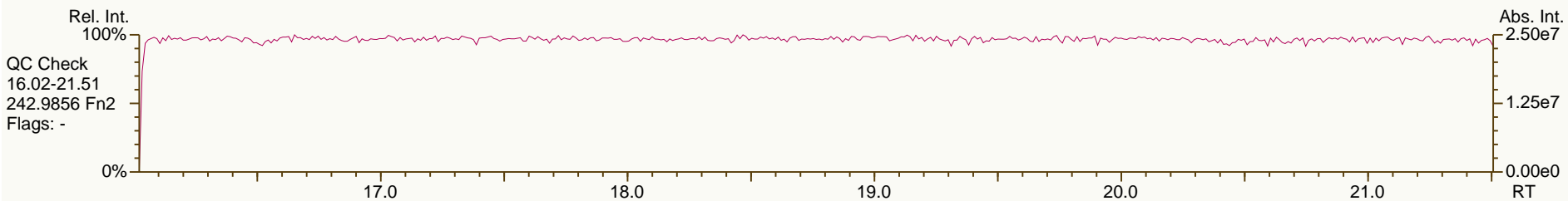
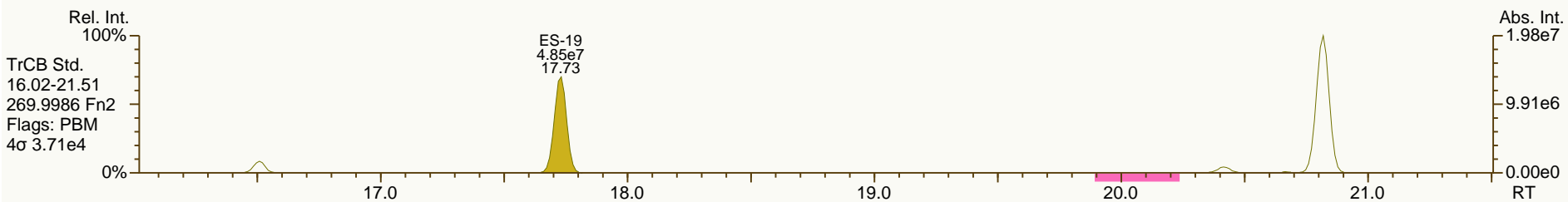
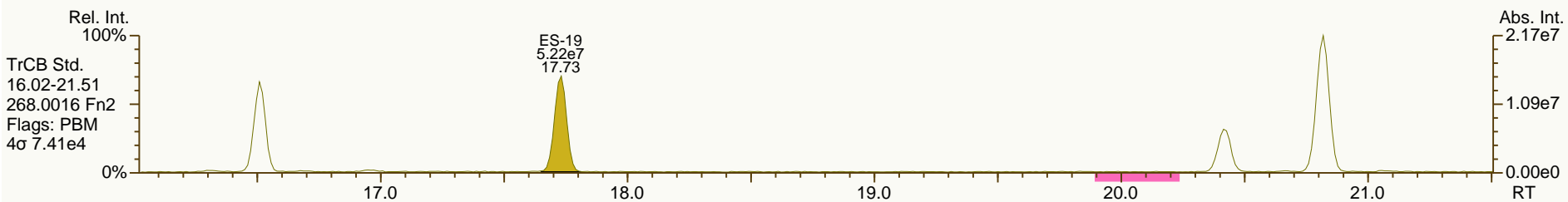
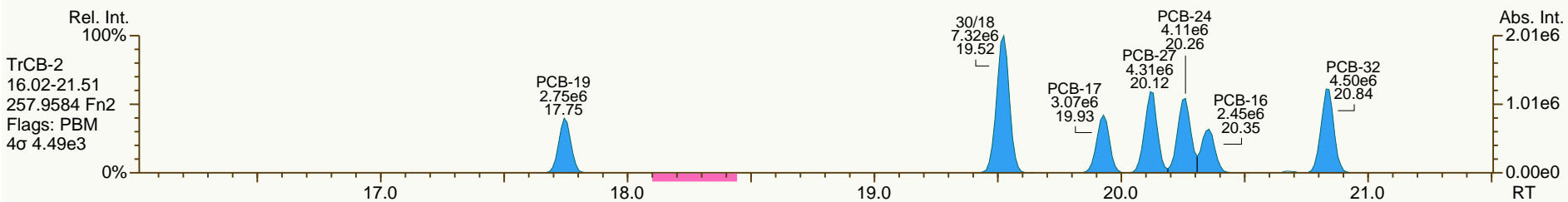
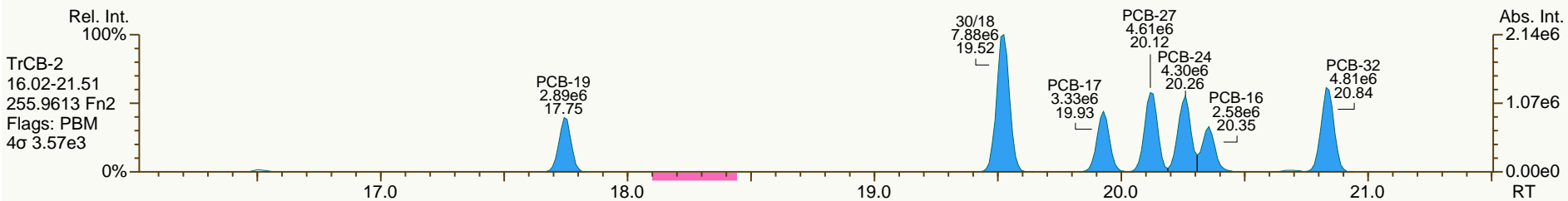
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 User: LKB Datafile: 131220X04



SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

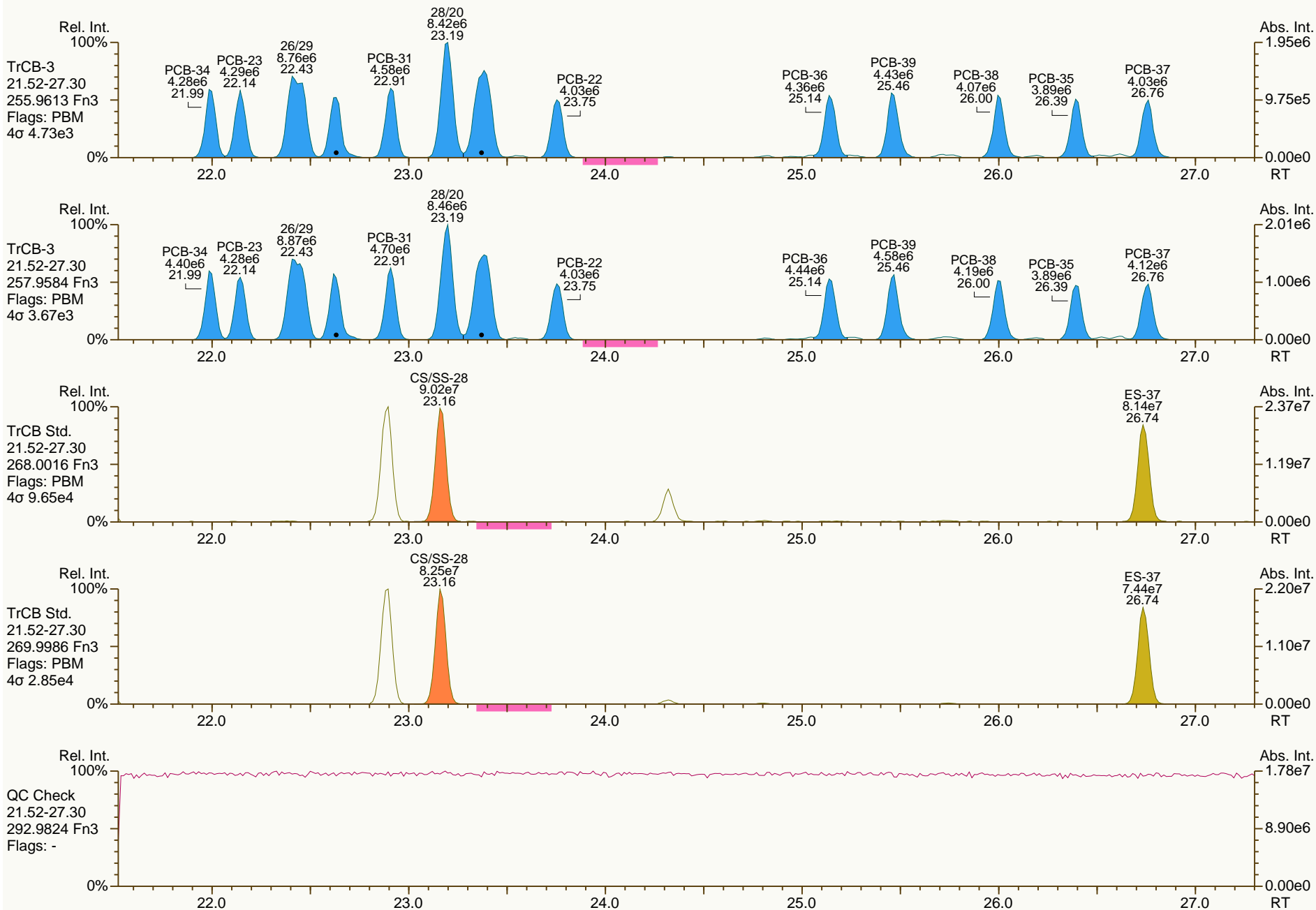
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

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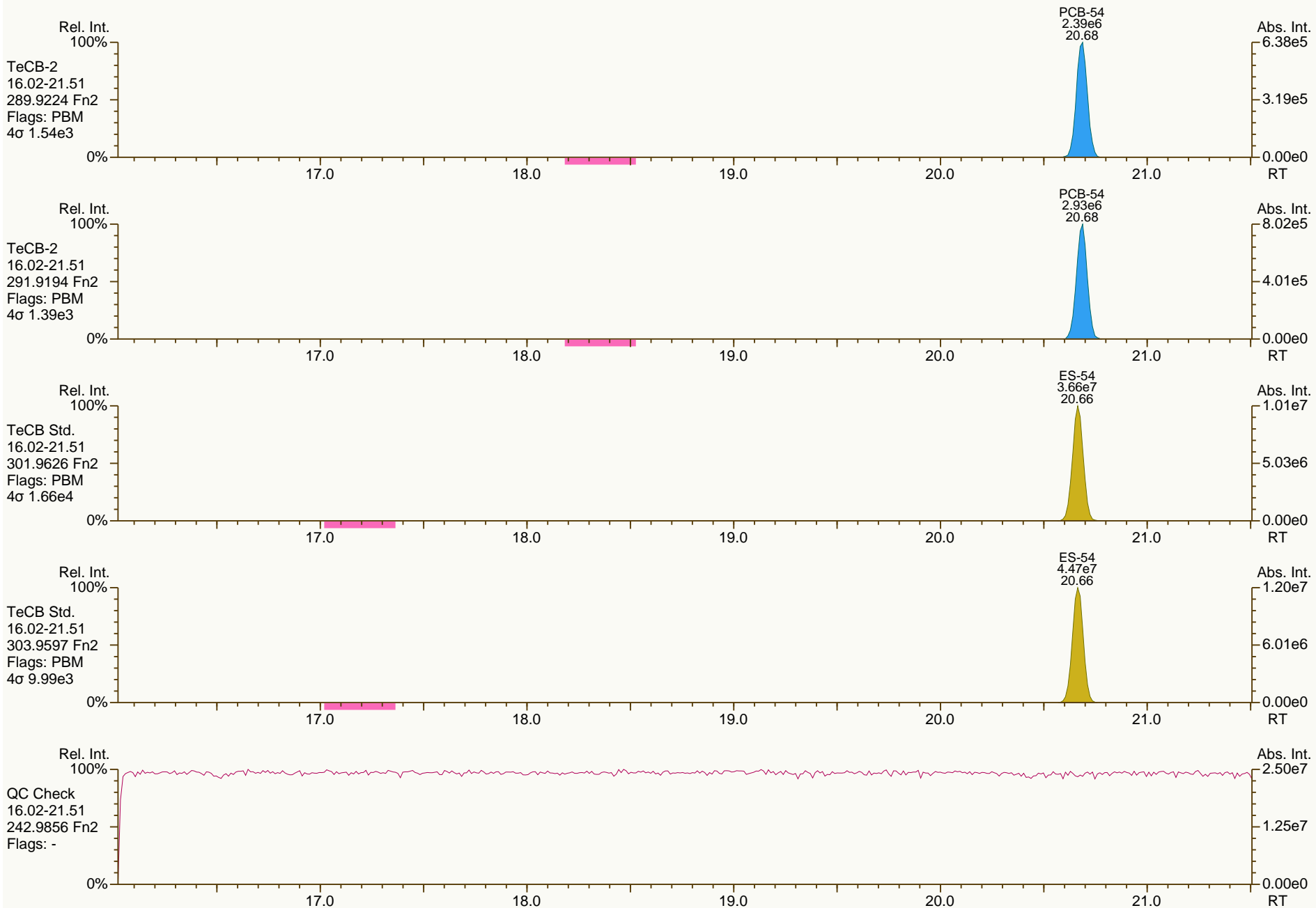




SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

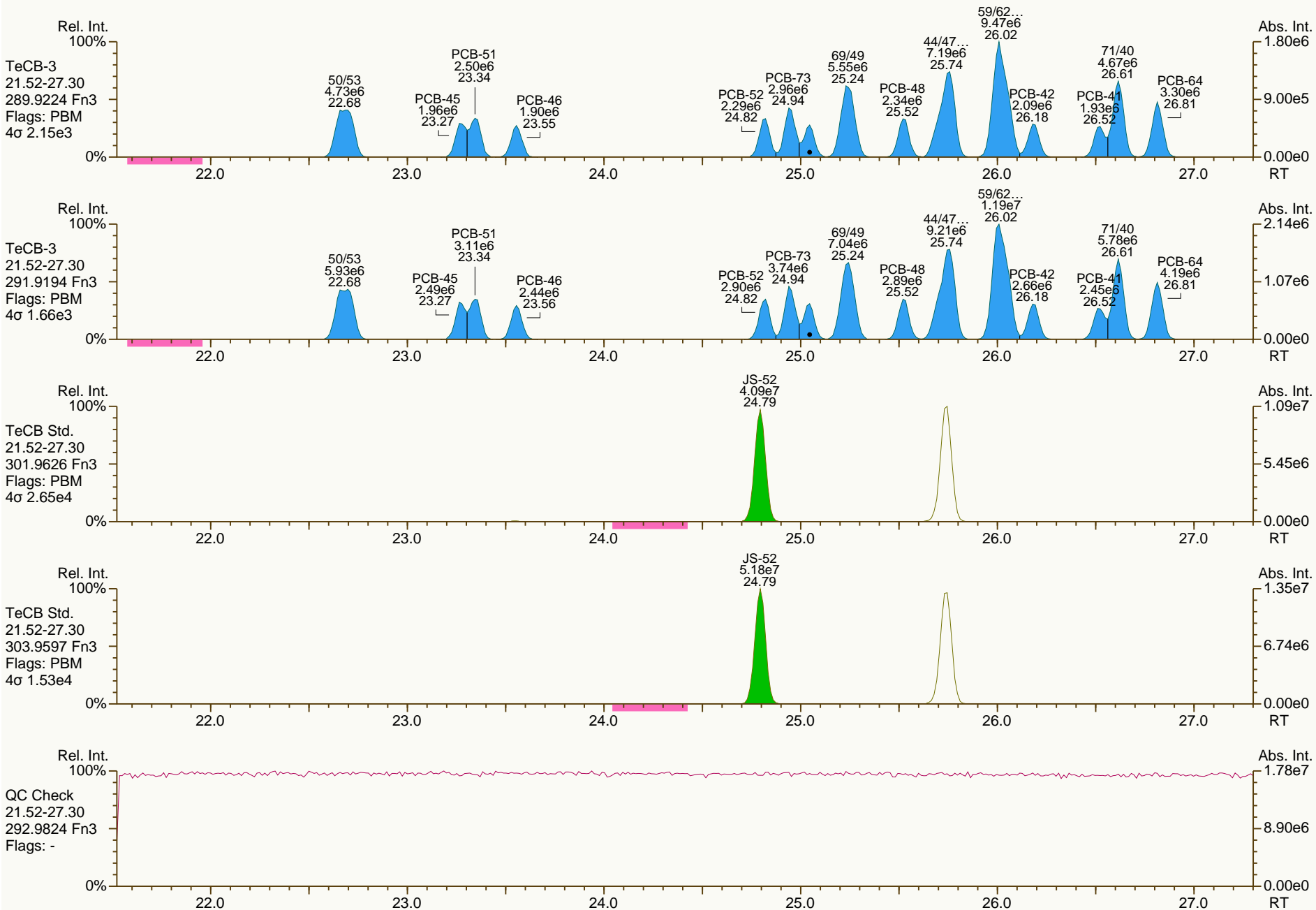
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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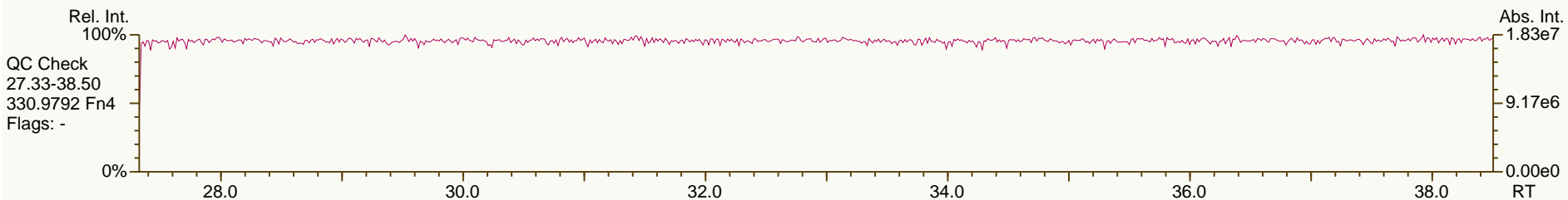
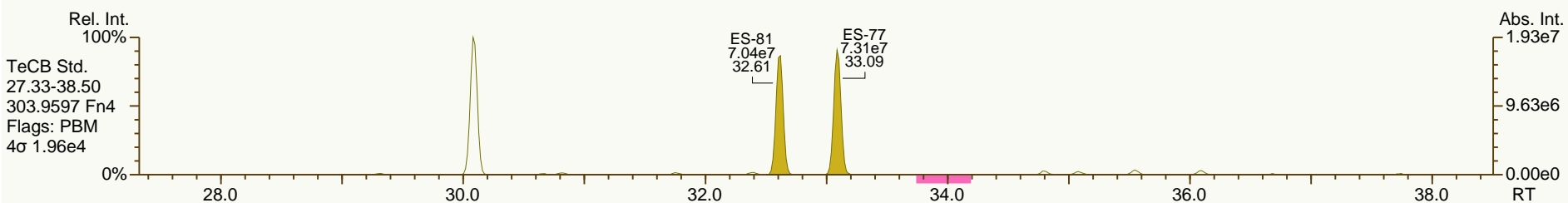
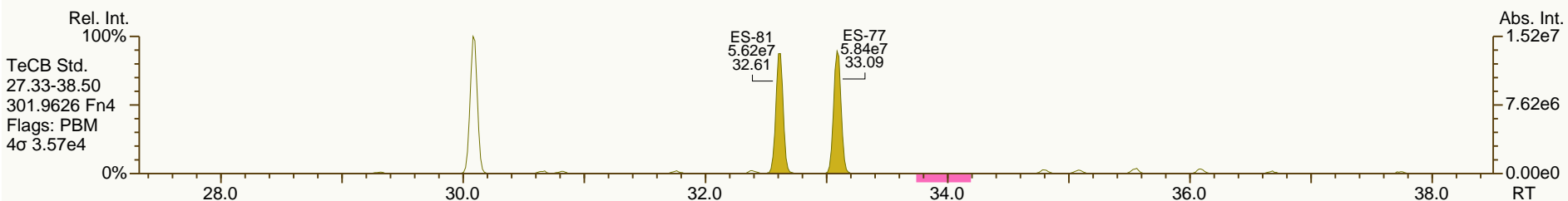
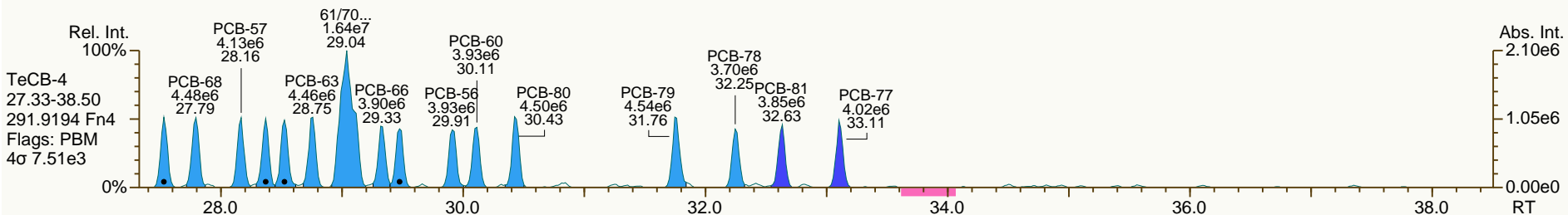
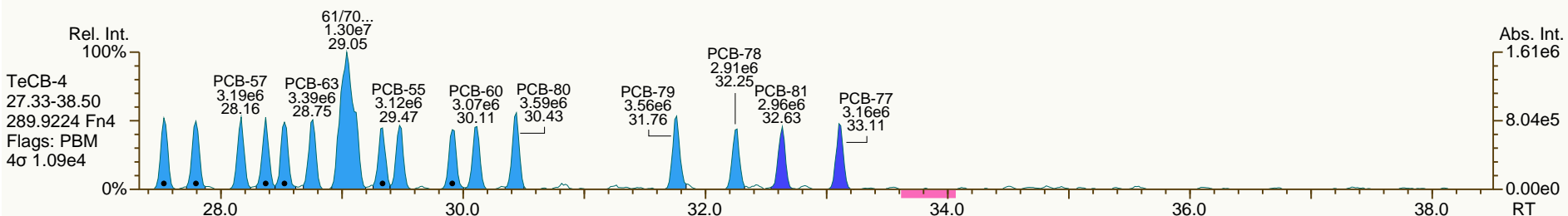
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

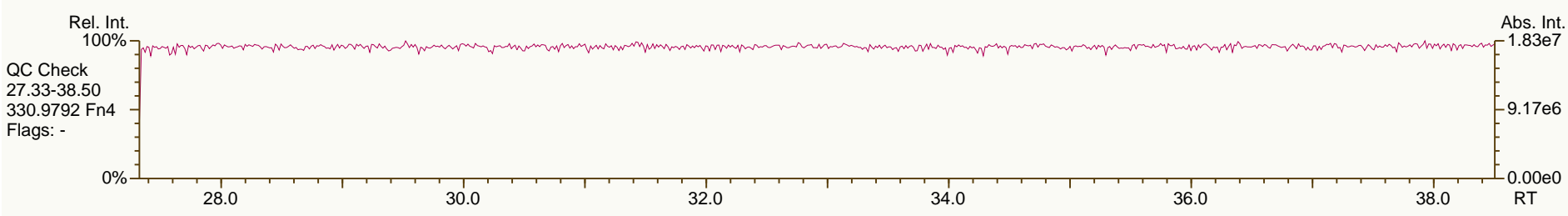
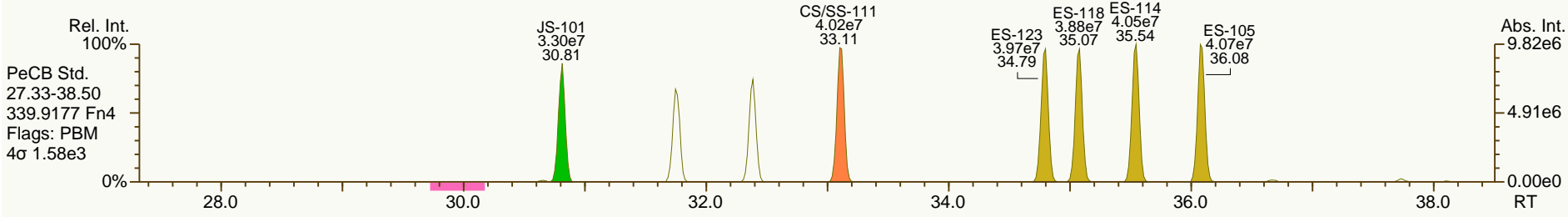
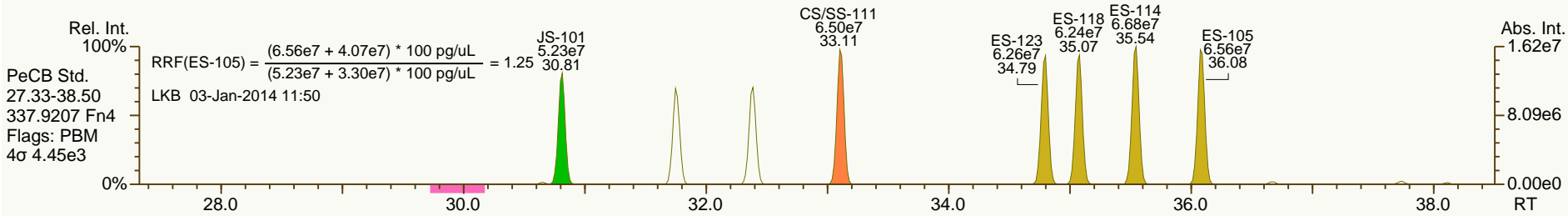
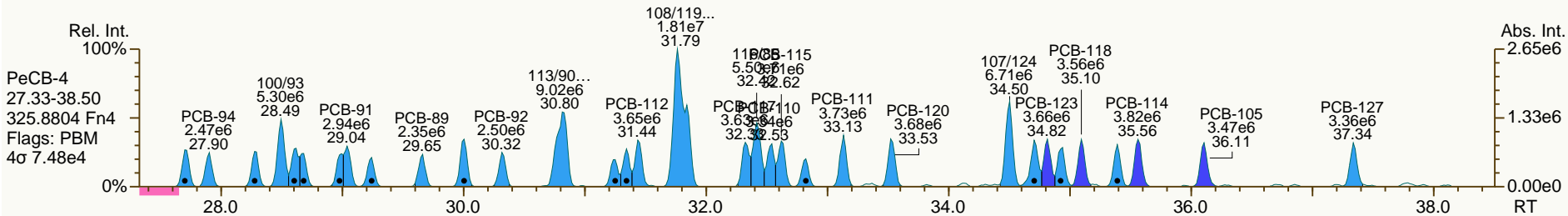
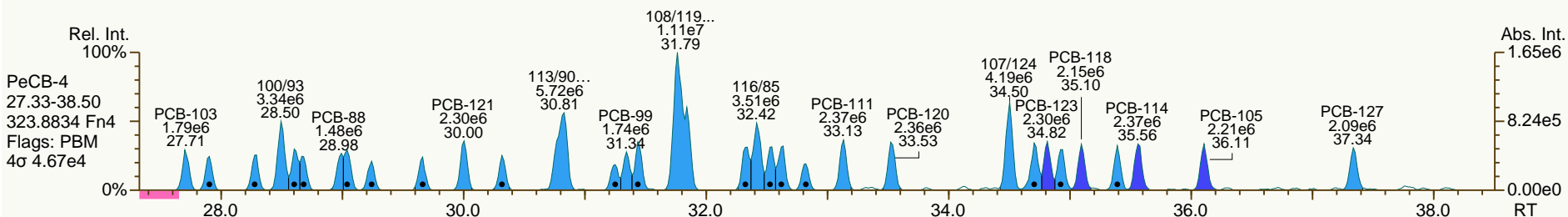
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

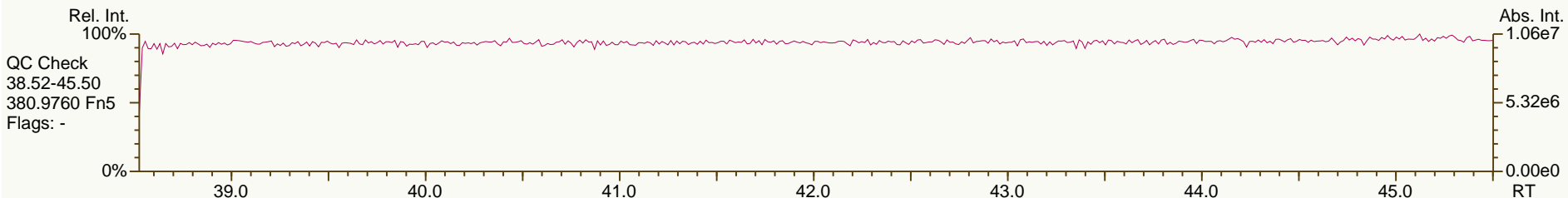
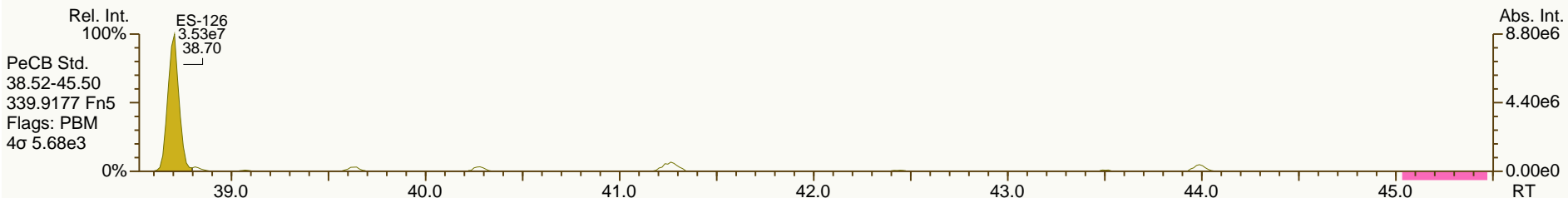
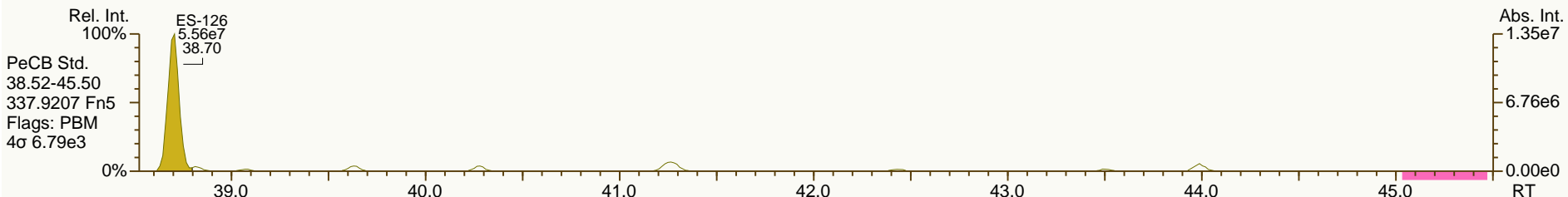
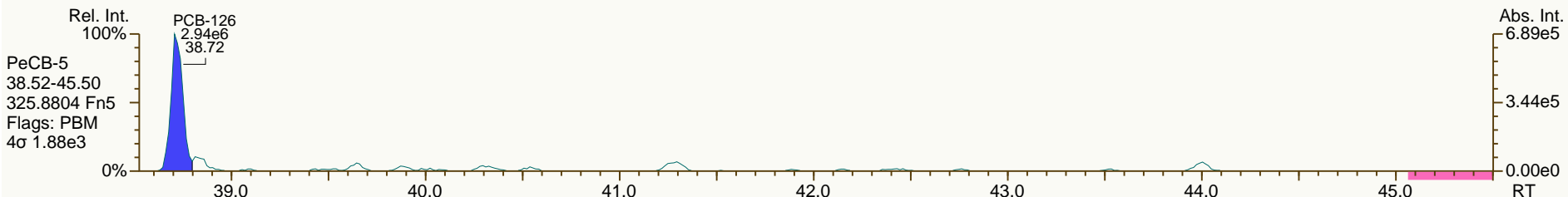
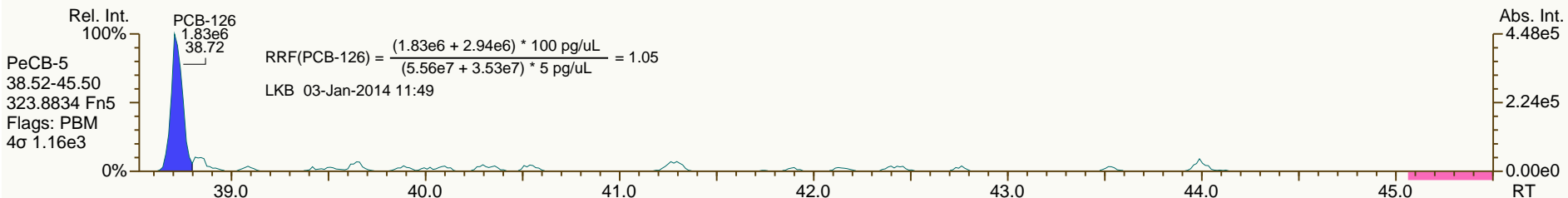
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

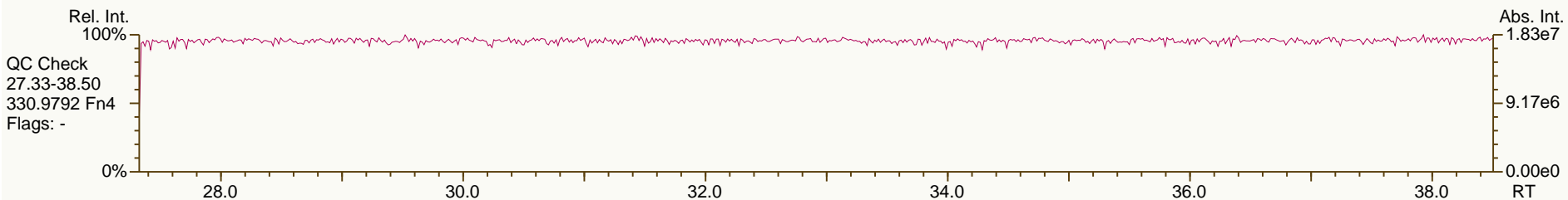
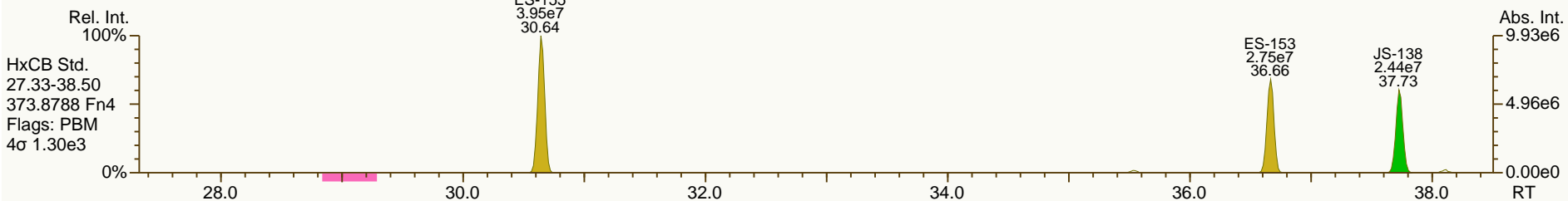
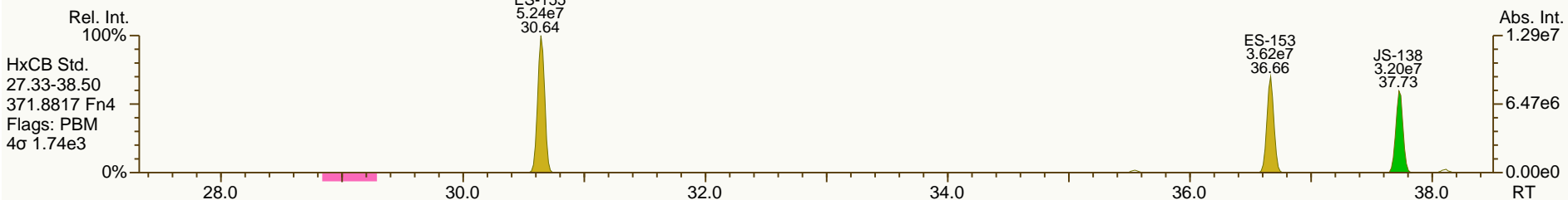
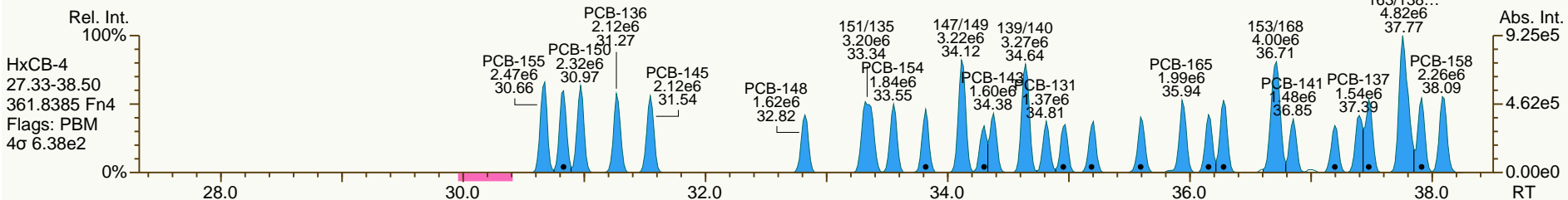
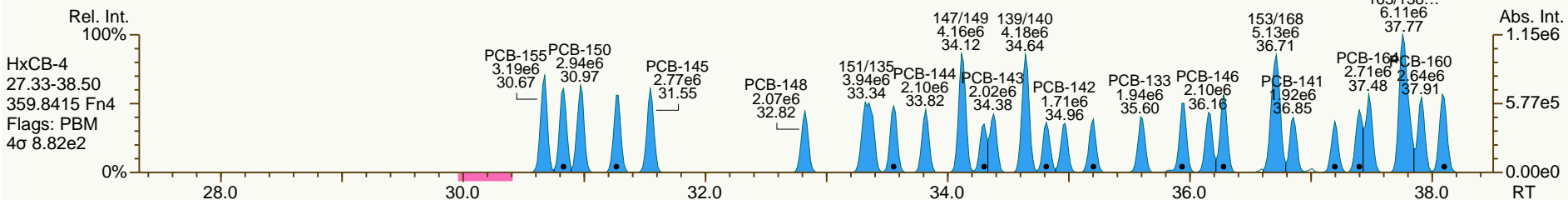
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

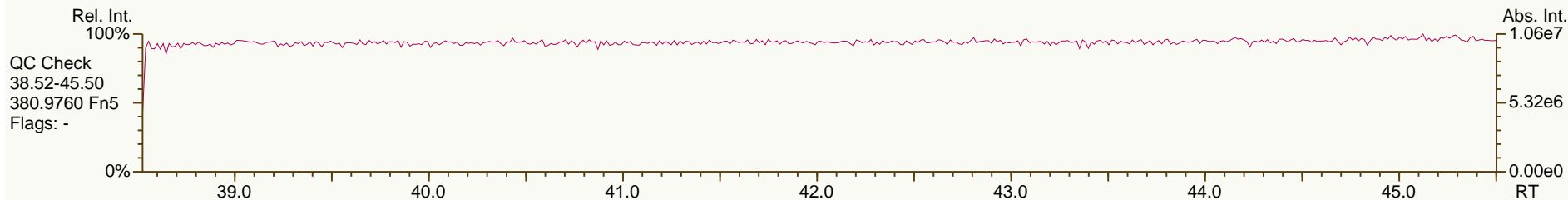
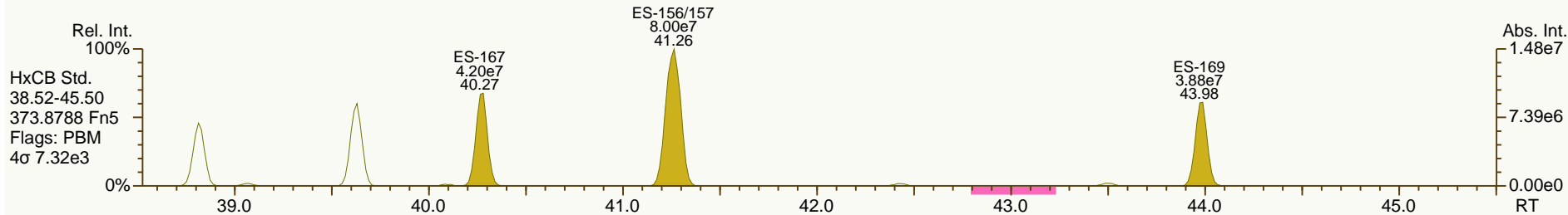
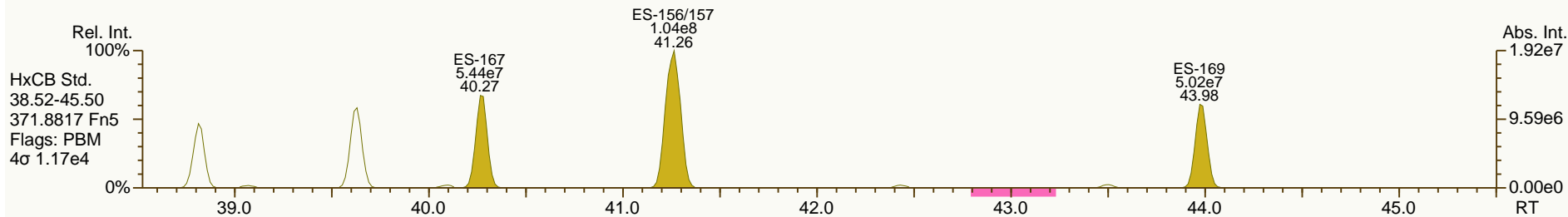
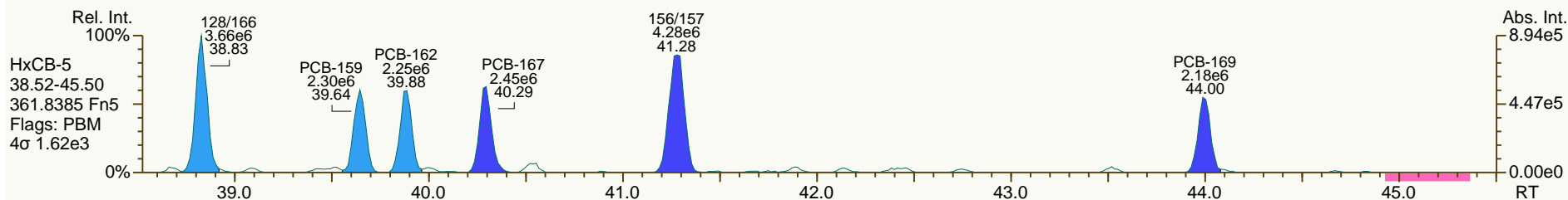
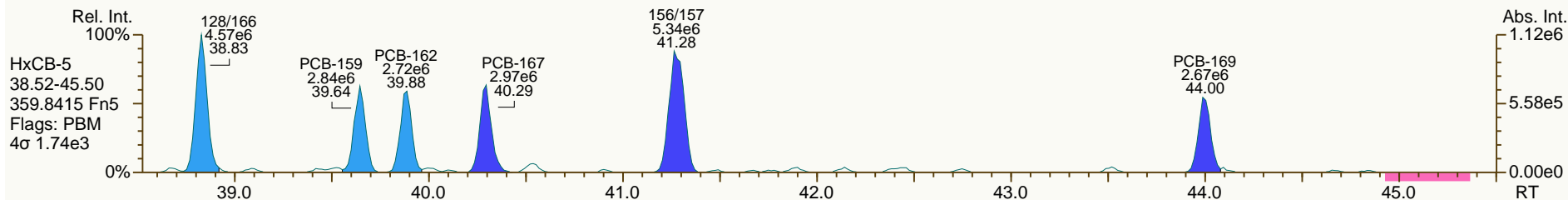
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

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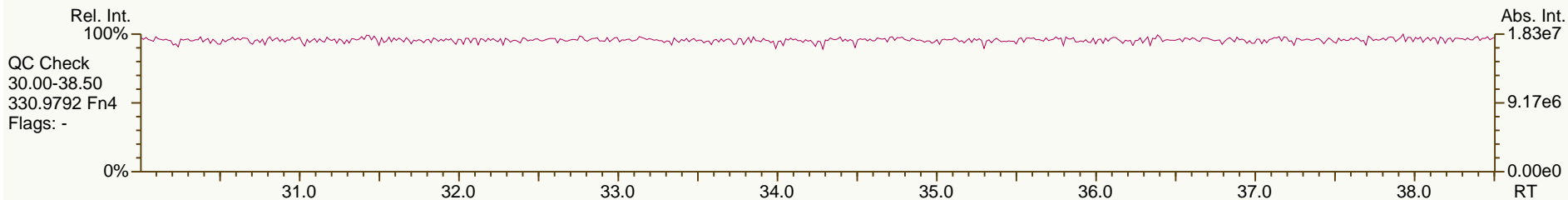
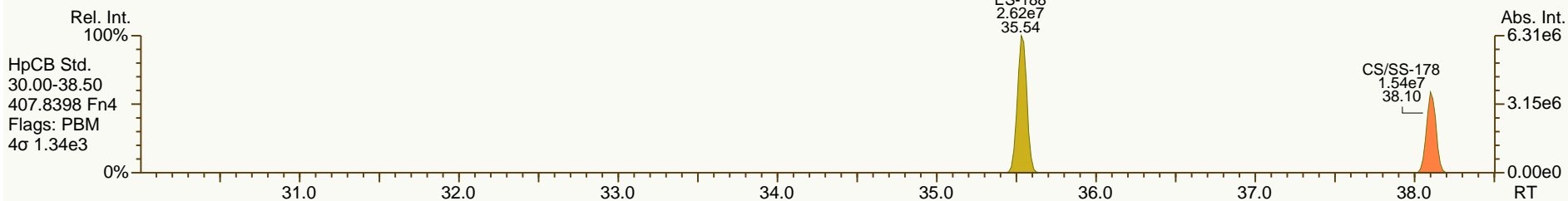
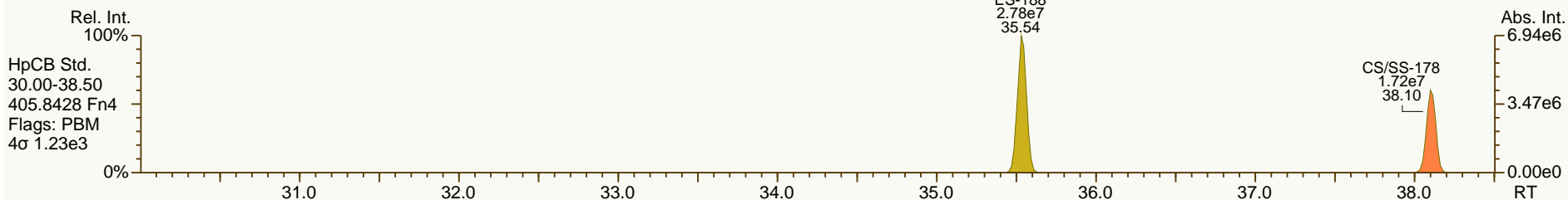
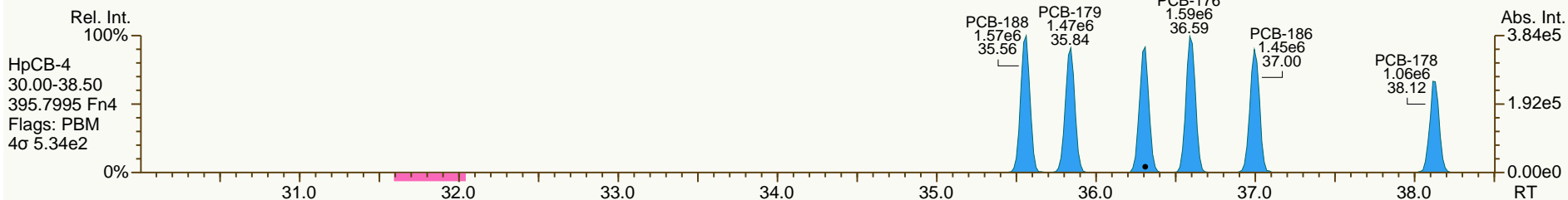
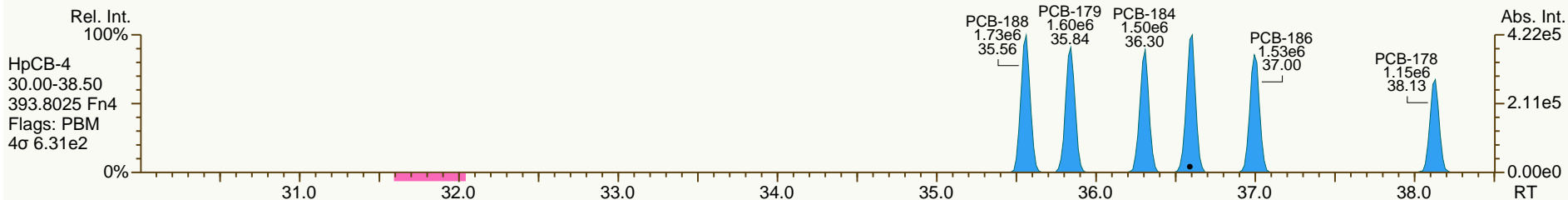




SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

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User: LKB Datafile: 131220X04



SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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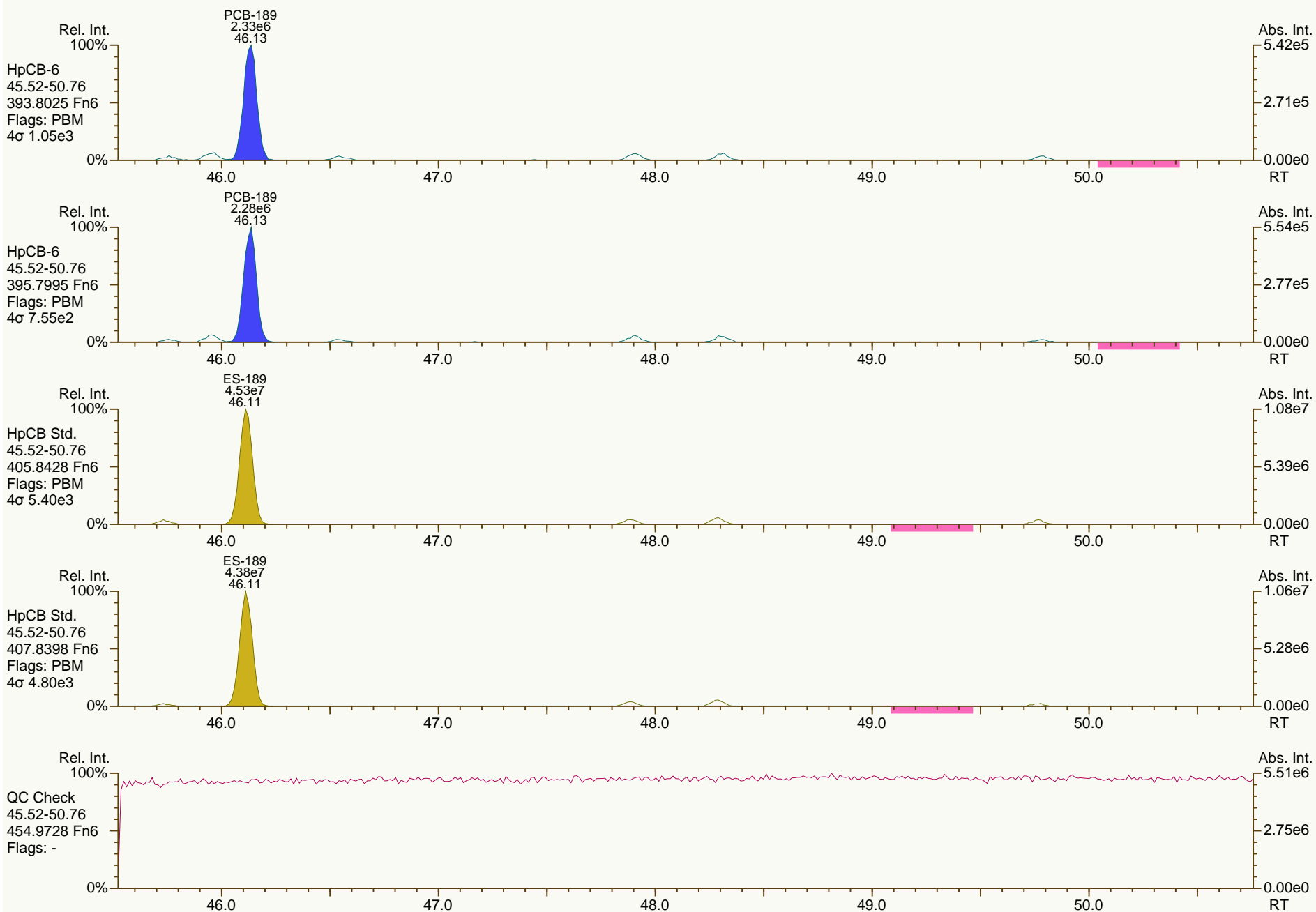
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

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SGS-AP ID: CS2\_131220\_PCB\_XA  
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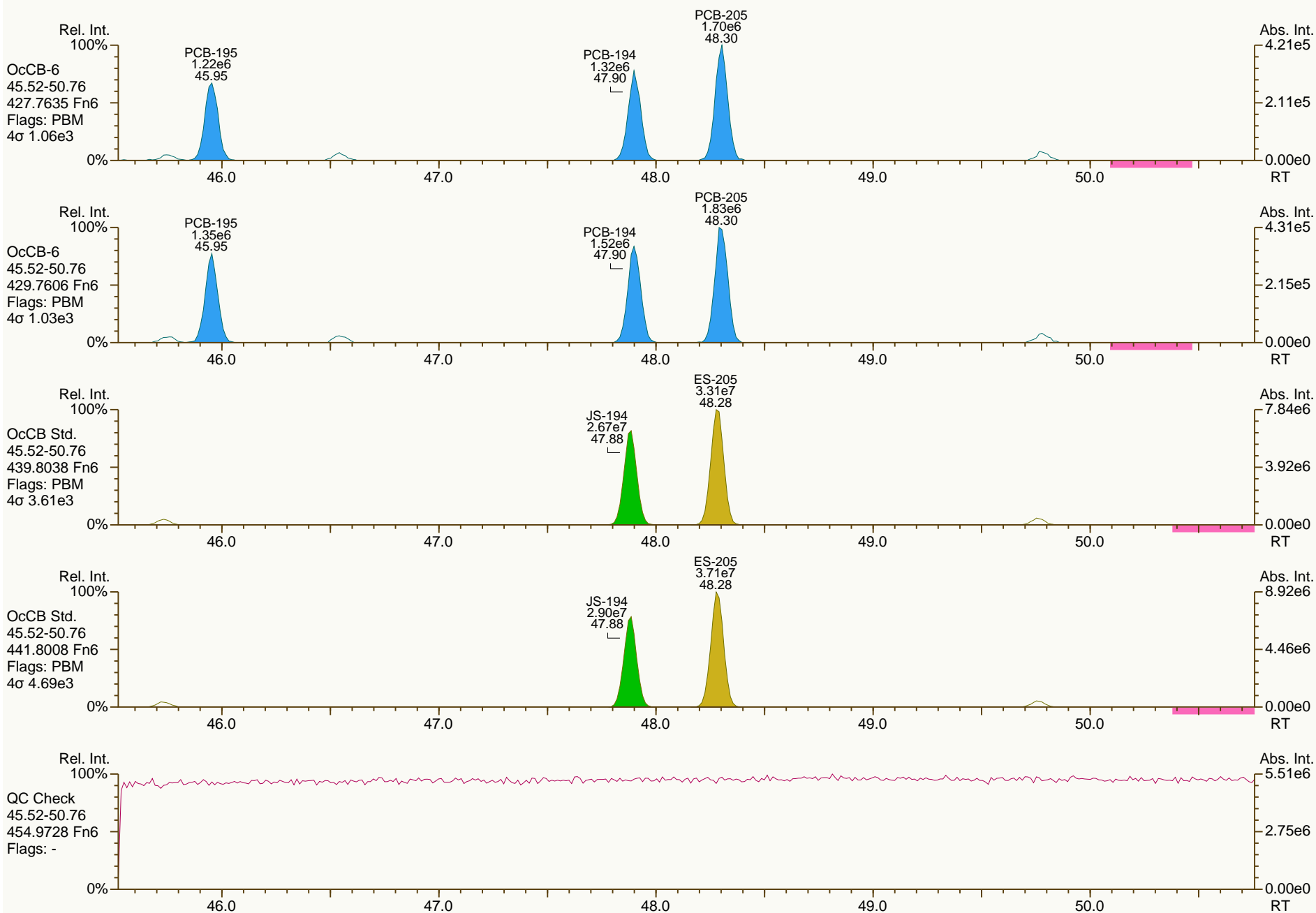
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Sample ID: SIL 13-79-4  
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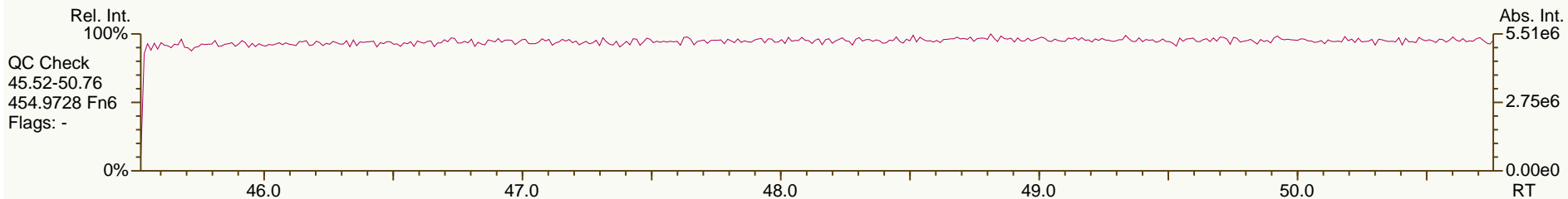
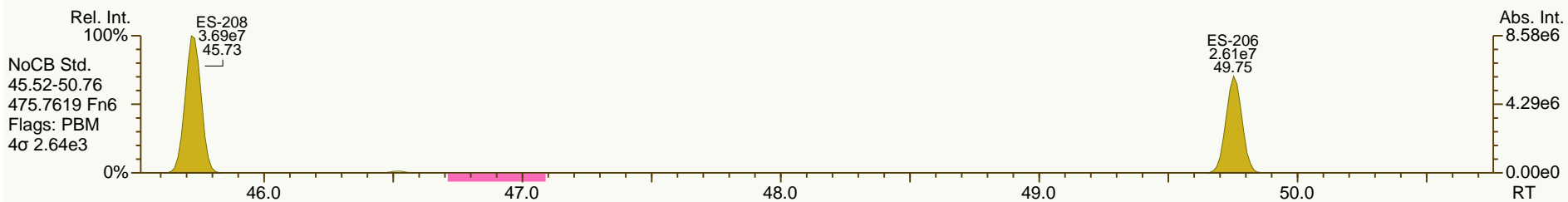
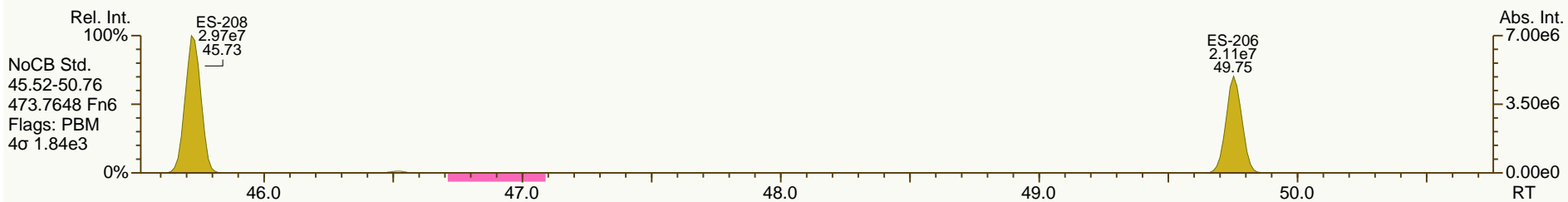
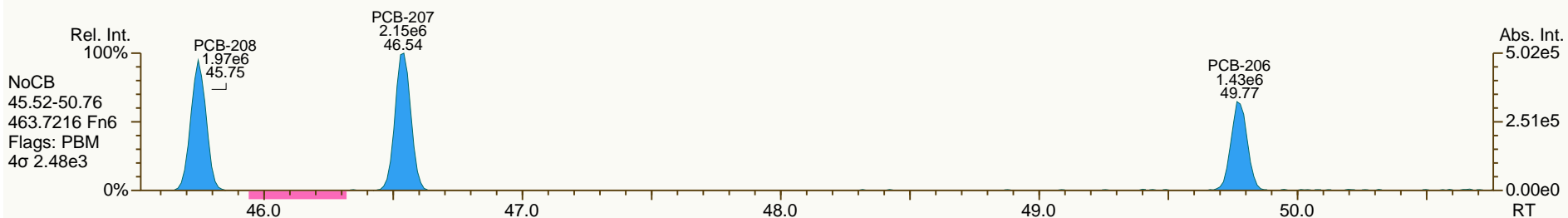
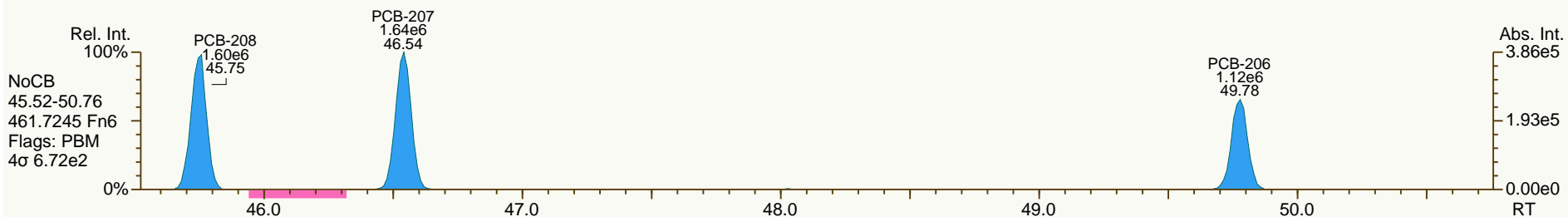
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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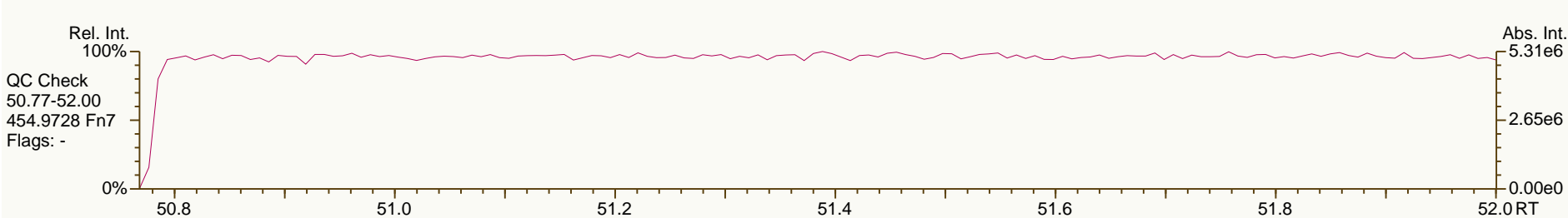
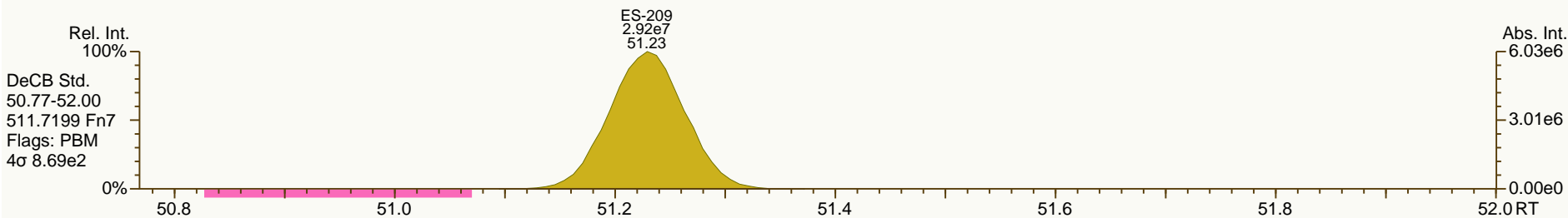
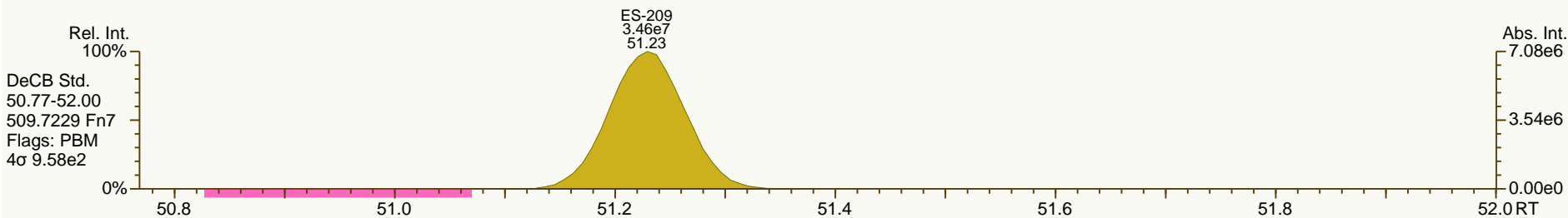
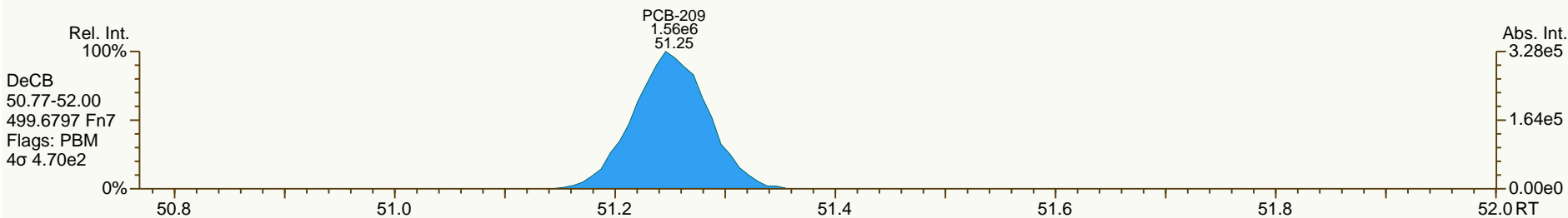
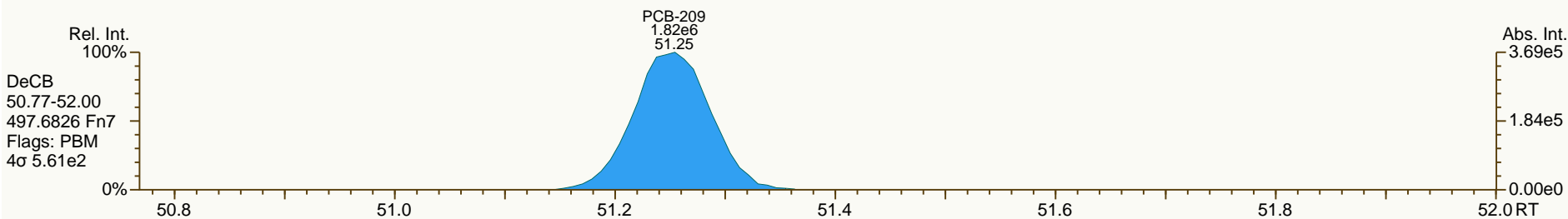
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
 User: LKB Datafile: 131220X04



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57		
Lab ID:	CS3_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.72E+07	0.78 Y	1.15	1.14	-0.9%	
PCB-81 344'5'-TeCB	32.62	6.46E+07	0.78 Y	1.12	1.12	-0.2%	
PCB-105 233'44'-PeCB	36.09	5.36E+07	0.62 Y	1.11	1.13	1.3%	
PCB-114 2344'5'-PeCB	35.55	5.90E+07	0.63 Y	1.20	1.23	2.2%	
PCB-118 23'44'5'-PeCB	35.08	5.55E+07	0.62 Y	1.19	1.22	2.5%	
PCB-123 23'44'5'-PeCB	34.80	5.75E+07	0.62 Y	1.21	1.23	1.5%	
PCB-126 33'44'5'-PeCB	38.71	4.48E+07	0.62 Y	1.11	1.12	1.1%	
PCB-156/157 ...-HxCB	41.26	9.35E+07	1.23 Y	1.10	1.12	2.3%	
PCB-167 23'44'55'-HxCB	40.28	5.18E+07	1.21 Y	1.16	1.20	2.9%	
PCB-169 33'44'55'-HxCB	43.98	4.66E+07	1.24 Y	1.12	1.16	2.8%	
PCB-189 233'44'55'-HpCB	46.12	4.39E+07	1.04 Y	1.07	1.07	-0.2%	
PCB-209 DeCB	51.23	3.15E+07	1.18 Y	1.11	1.09	-2.1%	
ES PCB-1	12.02	2.19E+08	3.31 Y	1.19	1.18	-1.3%	
ES PCB-3	14.34	1.97E+08	3.36 Y	1.09	1.06	-2.5%	
ES PCB-4	14.60	9.59E+07	1.62 Y	0.52	0.52	-1.2%	
ES PCB-15	20.36	1.90E+08	1.57 Y	1.04	1.02	-1.9%	
ES PCB-19	17.72	9.32E+07	1.08 Y	0.51	0.50	-0.9%	
ES PCB-37	26.72	1.42E+08	1.09 Y	1.66	1.61	-2.9%	
ES PCB-54	20.65	7.49E+07	0.82 Y	0.86	0.85	-0.9%	
ES PCB-77	33.08	1.18E+08	0.79 Y	1.38	1.34	-2.9%	
ES PCB-81	32.60	1.16E+08	0.81 Y	1.37	1.32	-3.5%	
ES PCB-104	25.66	6.47E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.07	9.52E+07	1.57 Y	1.20	1.18	-1.7%	
ES PCB-114	35.53	9.60E+07	1.64 Y	1.22	1.19	-2.1%	
ES PCB-118	35.06	9.11E+07	1.63 Y	1.16	1.13	-2.4%	
ES PCB-123	34.78	9.36E+07	1.59 Y	1.19	1.16	-2.1%	
ES PCB-126	38.69	8.01E+07	1.60 Y	1.03	0.99	-3.2%	
ES PCB-153	36.65	5.89E+07	1.29 Y	1.11	1.10	-1.2%	
ES PCB-155	30.63	8.37E+07	1.30 Y	1.59	1.56	-1.6%	
ES PCB-156/157	41.24	1.67E+08	1.28 Y	1.60	1.56	-2.7%	
ES PCB-167	40.26	8.66E+07	1.28 Y	1.67	1.62	-3.0%	
ES PCB-169	43.96	8.06E+07	1.28 Y	1.56	1.51	-3.2%	
ES PCB-170	43.48	4.93E+07	1.09 Y	0.95	0.95	-0.1%	
ES PCB-180	42.41	5.80E+07	1.09 Y	1.14	1.11	-2.2%	
ES PCB-188	35.52	4.92E+07	1.11 Y	0.94	0.92	-2.1%	
ES PCB-189	46.10	8.18E+07	1.01 Y	1.58	1.57	-0.9%	
ES PCB-202	40.07	5.16E+07	0.93 Y	0.97	0.97	-0.5%	
ES PCB-205	48.27	6.45E+07	0.89 Y	1.24	1.24	-0.6%	
ES PCB-206	49.74	4.32E+07	0.80 Y	0.83	0.83	-0.1%	
ES PCB-208	45.71	6.09E+07	0.80 Y	1.17	1.17	-0.5%	
ES PCB-209	51.21	5.77E+07	1.21 Y	1.11	1.11	-0.3%	



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 18:04							
Datafile:	131220X05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
SS PCB-28	23.15	1.59E+08	1.09 Y	1.11	1.12	1.0%		
SS PCB-111	33.09	9.83E+07	1.61 Y	1.03	1.05	2.1%		
SS PCB-178	38.09	3.00E+07	1.10 Y	0.62	0.61	-1.7%		
CS PCB-28	23.15	1.59E+08	1.09 Y	1.85	1.81	-1.8%		
CS PCB-111	33.09	9.83E+07	1.61 Y	1.22	1.22	0.0%		
CS PCB-178	38.09	3.00E+07	1.10 Y	0.58	0.56	-3.7%		
JS PCB-9	16.60	1.86E+08	1.55 Y	-	-	-		
JS PCB-52	24.78	8.78E+07	0.82 Y	-	-	-		
JS PCB-101	30.80	8.05E+07	1.58 Y	-	-	-		
JS PCB-138	37.72	5.35E+07	1.28 Y	-	-	-		
JS PCB-194	47.87	5.22E+07	0.91 Y	-	-	-		
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%		
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%		
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%		
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%		
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%		
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%		
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%		
PCB-104 22'466'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%		
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%		
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%		
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%		
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%		
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%		
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%		

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%	
PCB-2 3-MoCB	14.17	1.07E+08	3.26 Y	1.03	1.08	4.8%	
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%	
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%	
PCB-10 26'-DiCB	14.80	9.81E+07	1.61 Y	1.98	2.05	3.2%	
PCB-9 25'-DiCB	16.62	9.11E+07	1.64 Y	0.95	0.96	1.6%	
PCB-7 24'-DiCB	16.78	1.03E+08	1.63 Y	1.05	1.09	4.1%	
PCB-6 23'-DiCB	17.01	9.79E+07	1.63 Y	1.00	1.03	3.6%	
PCB-5 23'-DiCB	17.32	9.70E+07	1.62 Y	1.00	1.02	2.0%	
PCB-8 24'-DiCB	17.44	9.83E+07	1.64 Y	1.03	1.04	0.3%	
PCB-14 35'-DiCB	19.01	1.14E+08	1.62 Y	1.18	1.20	1.9%	
PCB-11 33'-DiCB	19.80	9.79E+07	1.64 Y	1.01	1.03	2.0%	
PCB-13/12 34'/34'-DiCB	20.09	1.94E+08	1.63 Y	0.99	1.02	3.1%	
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%	
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.46E+08	1.05 Y	1.54	1.57	1.9%	
PCB-17 22'4'-TrCB	19.91	6.21E+07	1.05 Y	1.31	1.33	2.2%	
PCB-27 23'6'-TrCB	20.11	8.52E+07	1.06 Y	1.82	1.83	0.7%	
PCB-24 236'-TrCB	20.24	8.13E+07	1.04 Y	1.72	1.74	1.2%	
PCB-16 22'3'-TrCB	20.34	4.64E+07	1.06 Y	1.01	1.00	-1.0%	
PCB-32 24'6'-TrCB	20.82	8.97E+07	1.06 Y	1.92	1.93	0.3%	
PCB-34 23'5'-TrCB	21.98	8.15E+07	0.99 Y	1.14	1.15	1.4%	
PCB-23 235'-TrCB	22.13	8.33E+07	0.99 Y	1.16	1.18	1.8%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.69E+08	0.99 Y	1.17	1.20	2.1%	
PCB-25 23'4'-TrCB	22.61	8.39E+07	0.98 Y	1.16	1.18	2.3%	
PCB-31 24'5'-TrCB	22.89	8.91E+07	0.99 Y	1.23	1.26	2.6%	
PCB-28/20 244'/233'-TrCB	23.18	1.65E+08	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.36	1.71E+08	0.97 Y	1.17	1.21	2.8%	
PCB-22 234'-TrCB	23.74	7.72E+07	0.98 Y	1.08	1.09	0.9%	
PCB-36 33'5'-TrCB	25.13	8.43E+07	0.99 Y	1.17	1.19	1.6%	
PCB-39 34'5'-TrCB	25.45	8.82E+07	0.99 Y	1.21	1.24	2.8%	
PCB-38 345'-TrCB	25.99	8.09E+07	0.99 Y	1.10	1.14	3.4%	
PCB-35 33'4'-TrCB	26.38	7.62E+07	0.99 Y	1.04	1.08	3.5%	
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%	
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%	
PCB-50/53 22'46'/22'56'-TeCB	22.67	1.04E+08	0.79 Y	0.88	0.90	2.6%	
PCB-45 22'36'-TeCB	23.26	4.29E+07	0.78 Y	0.77	0.74	-3.3%	
PCB-51 22'46'-TeCB	23.33	5.41E+07	0.79 Y	0.86	0.93	8.7%	
PCB-46 22'36'-TeCB	23.54	4.19E+07	0.78 Y	0.70	0.72	3.5%	
PCB-52 22'55'-TeCB	24.80	4.97E+07	0.79 Y	0.84	0.86	1.6%	
PCB-73 23'5'6'-TeCB	24.93	6.50E+07	0.79 Y	1.11	1.12	0.9%	
PCB-43 22'35'-TeCB	25.03	4.44E+07	0.79 Y	0.71	0.77	7.9%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.22E+08	0.79 Y	1.02	1.05	3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.51	5.03E+07	0.79 Y	0.84	0.87	3.5%	
PCB-44/47/65 ...-TeCB	25.73	1.61E+08	0.79 Y	0.90	0.93	2.8%	
PCB-59/62/75 ...-TeCB	26.01	2.11E+08	0.79 Y	1.17	1.21	4.0%	
PCB-42 22'34'-TeCB	26.17	4.56E+07	0.79 Y	0.76	0.79	3.2%	
PCB-41 22'34'-TeCB	26.51	4.24E+07	0.78 Y	0.69	0.73	5.4%	
PCB-71/40 23'4'6/22'33'-TeCB	26.60	1.01E+08	0.80 Y	0.86	0.87	1.7%	
PCB-64 23'4'6'-TeCB	26.80	7.33E+07	0.79 Y	1.22	1.27	3.7%	
PCB-72 23'55'-TeCB	27.52	7.21E+07	0.77 Y	1.21	1.25	3.0%	
PCB-68 23'45'-TeCB	27.78	7.57E+07	0.79 Y	1.28	1.31	2.4%	
PCB-57 23'35'-TeCB	28.15	6.97E+07	0.78 Y	1.16	1.20	3.4%	
PCB-58 23'35'-TeCB	28.35	6.93E+07	0.79 Y	1.18	1.20	1.6%	
PCB-67 23'45'-TeCB	28.51	7.46E+07	0.78 Y	1.26	1.29	2.3%	
PCB-63 23'45'-TeCB	28.74	7.70E+07	0.78 Y	1.30	1.33	2.5%	
PCB-61/70/74/76 ...-TeCB	29.03	2.84E+08	0.78 Y	1.20	1.23	2.3%	
PCB-66 23'44'-TeCB	29.32	6.58E+07	0.78 Y	1.10	1.14	3.1%	
PCB-55 23'34'-TeCB	29.46	6.61E+07	0.78 Y	1.12	1.14	1.9%	
PCB-56 23'34'-TeCB	29.90	6.57E+07	0.78 Y	1.11	1.13	2.2%	
PCB-60 23'44'-TeCB	30.09	6.65E+07	0.78 Y	1.14	1.15	1.2%	
PCB-80 33'55'-TeCB	30.42	7.84E+07	0.79 Y	1.31	1.35	3.1%	
PCB-79 33'45'-TeCB	31.75	7.58E+07	0.78 Y	1.31	1.31	0.3%	
PCB-78 33'45'-TeCB	32.24	6.37E+07	0.79 Y	1.06	1.10	3.6%	
PCB-104 22'46'6'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%	
PCB-96 22'36'6'-PeCB	26.00	4.07E+07	0.65 Y	1.23	1.26	2.3%	
PCB-103 22'45'6'-PeCB	27.69	4.49E+07	0.62 Y	0.93	0.96	3.1%	
PCB-94 22'35'6'-PeCB	27.89	3.89E+07	0.62 Y	0.80	0.83	3.9%	
PCB-95 22'35'6'-PeCB	28.27	4.15E+07	0.62 Y	0.87	0.89	2.5%	
PCB-100/93 22'44'6/22'35'6'-PeCB	28.48	8.23E+07	0.62 Y	0.86	0.88	1.9%	
PCB-102 22'45'6'-PeCB	28.59	4.80E+07	0.62 Y	0.97	1.03	6.0%	
PCB-98 22'34'6'-PeCB	28.66	3.74E+07	0.62 Y	0.76	0.80	5.5%	
PCB-88 22'34'6'-PeCB	28.96	3.48E+07	0.61 Y	0.80	0.74	-6.9%	
PCB-91 22'34'6'-PeCB	29.03	4.85E+07	0.62 Y	0.94	1.04	9.9%	
PCB-84 22'33'6'-PeCB	29.22	3.51E+07	0.62 Y	0.72	0.75	4.8%	
PCB-89 22'34'6'-PeCB	29.64	3.72E+07	0.61 Y	0.76	0.80	4.3%	
PCB-121 23'45'6'-PeCB	29.99	5.76E+07	0.62 Y	1.20	1.23	2.6%	
PCB-92 22'35'5'-PeCB	30.31	3.91E+07	0.61 Y	0.82	0.84	1.9%	
PCB-113/90/101 ...-PeCB	30.79	1.40E+08	0.62 Y	0.99	1.00	1.0%	
PCB-83 22'33'5'-PeCB	31.23	3.39E+07	0.62 Y	0.71	0.72	1.2%	
PCB-99 22'44'5'-PeCB	31.33	4.26E+07	0.62 Y	0.92	0.91	-1.2%	
PCB-112 23'3'56'-PeCB	31.43	5.82E+07	0.62 Y	1.17	1.24	6.6%	
PCB-108/119/86/97/125...-PeCB	31.78	2.85E+08	0.62 Y	0.98	1.01	3.6%	
PCB-117 23'4'56'-PeCB	32.31	5.48E+07	0.62 Y	1.14	1.17	2.9%	
PCB-116/85 23'45'6/22'34'4'-PeCB	32.41	8.79E+07	0.63 Y	0.94	0.94	-0.1%	
PCB-110 23'3'4'6'-PeCB	32.52	5.86E+07	0.62 Y	1.12	1.25	12.0%	

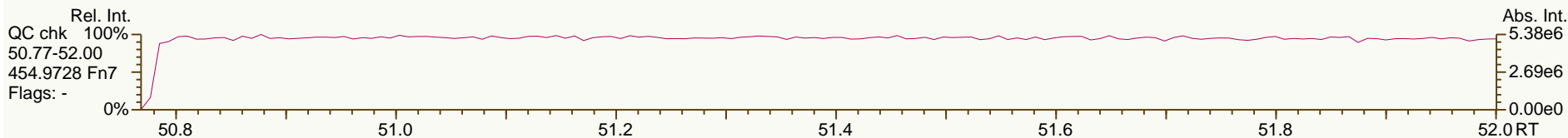
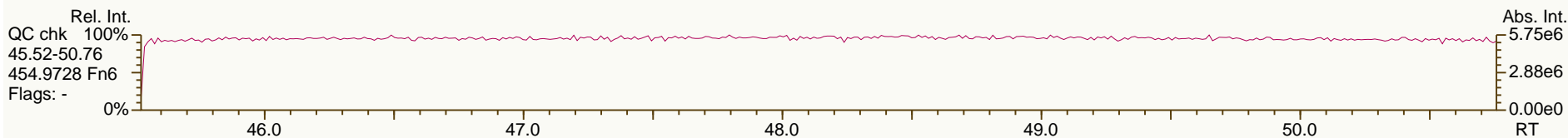
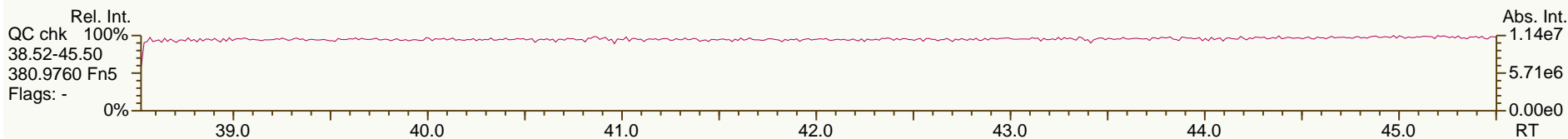
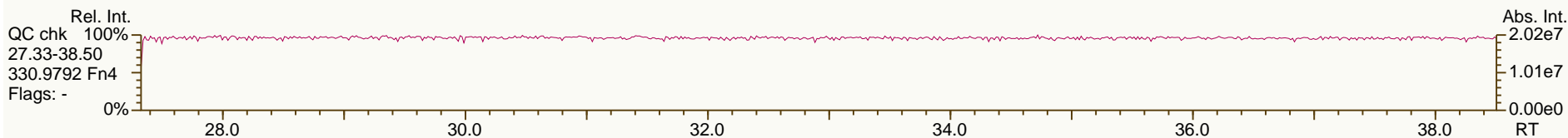
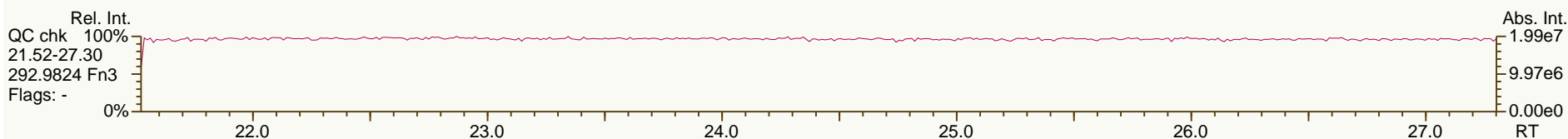
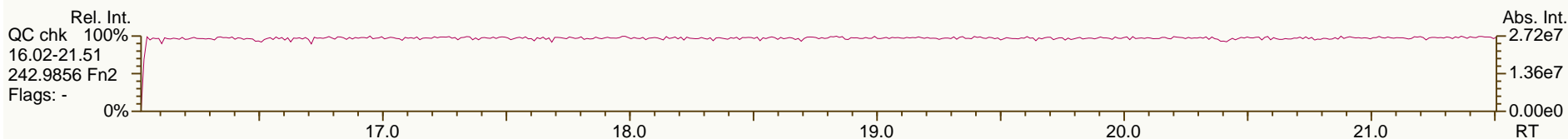
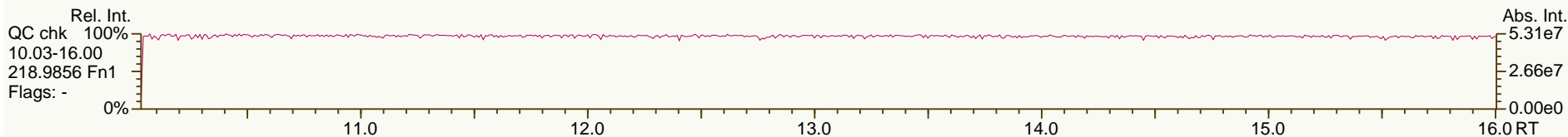
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.61	5.15E+07	0.62 Y	1.16	1.10	-5.0%	
PCB-82 22'33'4-PeCB	32.80	3.29E+07	0.62 Y	0.70	0.70	0.8%	
PCB-111 233'55'-PeCB	33.12	5.86E+07	0.62 Y	1.22	1.25	2.6%	
PCB-120 23'455'-PeCB	33.52	5.80E+07	0.62 Y	1.21	1.24	2.4%	
PCB-107/124 ...-PeCB	34.49	1.06E+08	0.62 Y	1.10	1.14	3.4%	
PCB-109 233'46-PeCB	34.69	6.23E+07	0.62 Y	1.25	1.33	6.3%	
PCB-106 233'45-PeCB	34.91	5.24E+07	0.62 Y	1.11	1.12	1.3%	
PCB-122 233'4'5'-PeCB	35.38	4.86E+07	0.62 Y	0.99	1.01	1.9%	
PCB-127 33'455'-PeCB	37.33	5.29E+07	0.62 Y	1.10	1.11	1.5%	
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%	
PCB-152 22'3566'-HxCB	30.81	4.87E+07	1.29 Y	1.17	1.16	-0.8%	
PCB-150 22'34'66'-HxCB	30.96	5.03E+07	1.27 Y	1.18	1.20	2.2%	
PCB-136 22'33'66'-HxCB	31.26	4.58E+07	1.28 Y	1.07	1.09	2.6%	
PCB-145 22'3466'-HxCB	31.53	4.68E+07	1.28 Y	1.11	1.12	0.3%	
PCB-148 22'34'56'-HxCB	32.81	3.50E+07	1.29 Y	1.18	1.19	0.6%	
PCB-151/135 ...-HxCB	33.33	6.71E+07	1.28 Y	1.14	1.14	0.1%	
PCB-154 22'44'56'-HxCB	33.54	3.92E+07	1.27 Y	1.34	1.33	-0.9%	
PCB-144 22'345'6-HxCB	33.80	3.50E+07	1.28 Y	1.18	1.19	0.5%	
PCB-147/149 ...-HxCB	34.11	6.95E+07	1.26 Y	1.18	1.18	0.4%	
PCB-134 22'33'56-HxCB	34.28	2.62E+07	1.29 Y	0.92	0.89	-3.9%	
PCB-143 22'3456'-HxCB	34.36	3.47E+07	1.29 Y	1.13	1.18	4.3%	
PCB-139/140 ...-HxCB	34.63	7.06E+07	1.29 Y	1.21	1.20	-0.5%	
PCB-131 22'33'46-HxCB	34.80	3.02E+07	1.28 Y	1.03	1.03	0.0%	
PCB-142 22'3456-HxCB	34.95	2.97E+07	1.27 Y	0.99	1.01	1.8%	
PCB-132 22'33'46'-HxCB	35.18	3.05E+07	1.29 Y	1.03	1.03	0.4%	
PCB-133 22'33'55'-HxCB	35.59	3.33E+07	1.27 Y	1.13	1.13	-0.2%	
PCB-165 233'55'6-HxCB	35.93	4.19E+07	1.29 Y	1.41	1.42	1.0%	
PCB-146 22'34'55'-HxCB	36.14	3.49E+07	1.26 Y	1.20	1.19	-1.3%	
PCB-161 233'45'6-HxCB	36.26	4.54E+07	1.29 Y	1.52	1.54	1.3%	
PCB-153/168 ...-HxCB	36.69	8.69E+07	1.27 Y	1.46	1.48	1.3%	
PCB-141 22'3455'-HxCB	36.84	3.24E+07	1.26 Y	1.09	1.10	1.2%	
PCB-130 22'33'45'-HxCB	37.18	2.87E+07	1.26 Y	0.97	0.97	0.2%	
PCB-137 22'344'5-HxCB	37.38	3.23E+07	1.26 Y	1.16	1.10	-5.5%	
PCB-164 233'4'5'6-HxCB	37.46	4.64E+07	1.27 Y	1.50	1.58	5.2%	
PCB-163/138/129 ...-HxCB	37.76	1.04E+08	1.27 Y	1.19	1.17	-1.4%	
PCB-160 233'456-HxCB	37.89	4.57E+07	1.27 Y	1.52	1.55	2.4%	
PCB-158 233'44'6-HxCB	38.08	4.80E+07	1.29 Y	1.66	1.63	-1.8%	
PCB-128/166 ...-HxCB	38.81	7.91E+07	1.23 Y	0.90	0.91	1.5%	
PCB-159 233'455'-HxCB	39.63	4.91E+07	1.23 Y	1.11	1.13	1.7%	
PCB-162 233'4'55'-HxCB	39.87	4.82E+07	1.22 Y	1.07	1.11	3.8%	
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%	
PCB-179 22'33'566'-HpCB	35.82	2.89E+07	1.08 Y	1.16	1.17	0.9%	
PCB-184 22'344'66'-HpCB	36.29	2.78E+07	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.58	3.08E+07	1.08 Y	1.23	1.25	1.6%	
PCB-186 22'34566'-HpCB	36.98	2.82E+07	1.09 Y	1.13	1.14	1.7%	
PCB-178 22'33'55'6'-HpCB	38.11	2.06E+07	1.08 Y	0.84	0.84	-0.7%	
PCB-175 22'33'45'6'-HpCB	38.66	3.12E+07	1.07 Y	1.07	1.08	0.3%	
PCB-187 22'34'55'6'-HpCB	38.89	3.32E+07	1.07 Y	1.14	1.15	0.7%	
PCB-182 22'344'56'-HpCB	39.07	3.55E+07	1.06 Y	1.18	1.22	4.2%	
PCB-183 22'344'5'6'-HpCB	39.42	3.70E+07	1.06 Y	1.20	1.28	6.0%	
PCB-185 22'3455'6'-HpCB	39.50	2.99E+07	1.07 Y	1.06	1.03	-2.8%	
PCB-174 22'33'456'-HpCB	39.61	2.90E+07	1.06 Y	0.99	1.00	1.1%	
PCB-177 22'33'45'6'-HpCB	39.98	2.76E+07	1.06 Y	0.95	0.95	0.0%	
PCB-181 22'344'56'-HpCB	40.33	3.21E+07	1.05 Y	1.09	1.11	1.7%	
PCB-171/173 ...-HpCB	40.52	5.60E+07	1.05 Y	0.95	0.97	1.8%	
PCB-172 22'33'455'-HpCB	41.87	2.94E+07	1.05 Y	0.99	1.02	2.7%	
PCB-192 233'455'6'-HpCB	42.12	3.83E+07	1.07 Y	1.29	1.32	2.5%	
PCB-180/193 ...-HpCB	42.39	7.38E+07	1.06 Y	1.26	1.27	1.0%	
PCB-191 233'44'5'6'-HpCB	42.73	4.06E+07	1.08 Y	1.40	1.40	0.4%	
PCB-170 22'33'44'5'-HpCB	43.50	2.83E+07	1.08 Y	1.14	1.15	1.0%	
PCB-190 233'44'56'-HpCB	43.95	4.10E+07	1.05 Y	1.66	1.66	0.2%	
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%	
PCB-201 22'33'45'66'-OcCB	40.88	3.19E+07	0.91 Y	1.22	1.24	1.2%	
PCB-204 22'344'566'-OcCB	41.46	2.88E+07	0.93 Y	1.12	1.12	0.0%	
PCB-197 22'33'44'66'-OcCB	41.65	2.98E+07	0.91 Y	1.19	1.15	-3.2%	
PCB-200 22'33'4566'-OcCB	41.73	3.01E+07	0.93 Y	1.11	1.16	5.1%	
PCB-198/199 ...-OcCB	44.06	4.14E+07	0.91 Y	0.81	0.80	-0.8%	
PCB-196 22'33'44'56'-OcCB	44.64	2.18E+07	0.91 Y	0.83	0.84	1.1%	
PCB-203 22'344'55'6'-OcCB	44.81	2.26E+07	0.91 Y	0.87	0.88	0.2%	
PCB-195 22'33'44'56'-OcCB	45.94	2.41E+07	0.93 Y	0.77	0.75	-2.5%	
PCB-194 22'33'44'55'-OcCB	47.89	2.69E+07	0.91 Y	0.84	0.84	-0.9%	
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%	
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%	
PCB-207 22'33'44'566'-NoCB	46.52	3.65E+07	0.78 Y	1.19	1.20	0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%	

SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

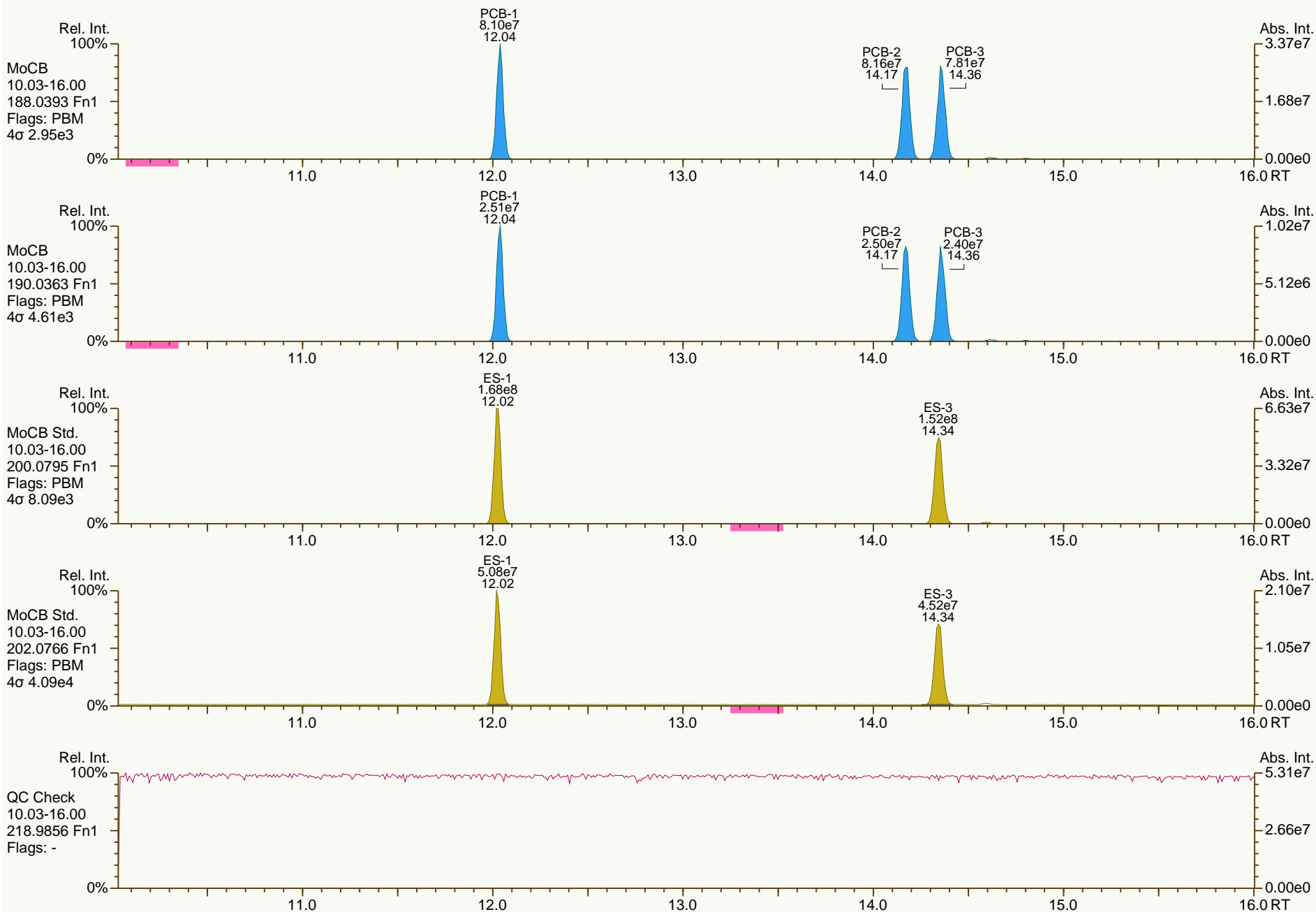
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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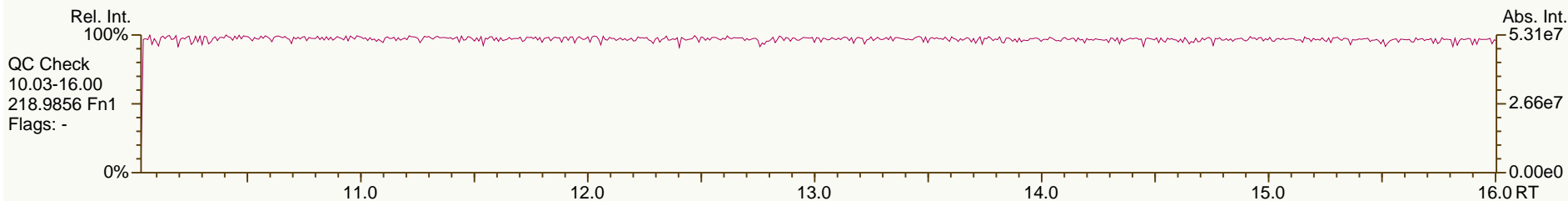
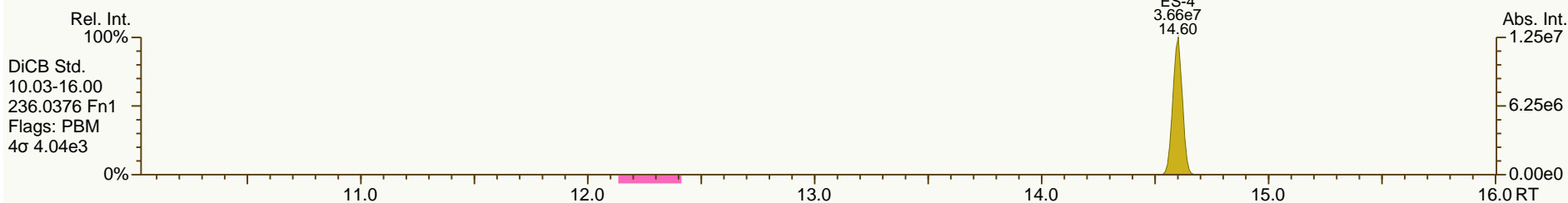
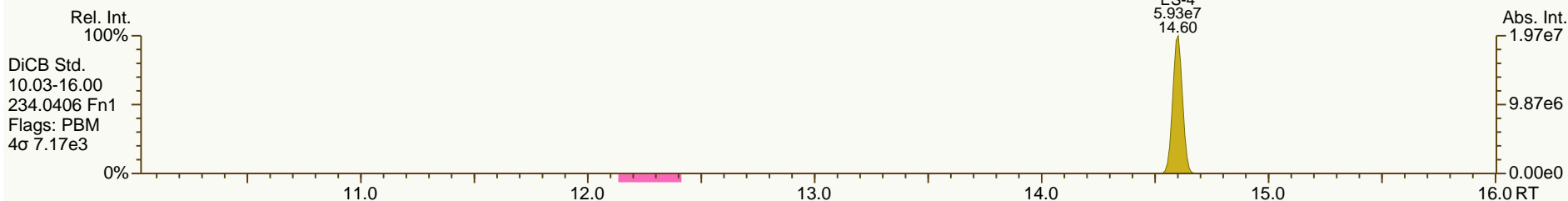
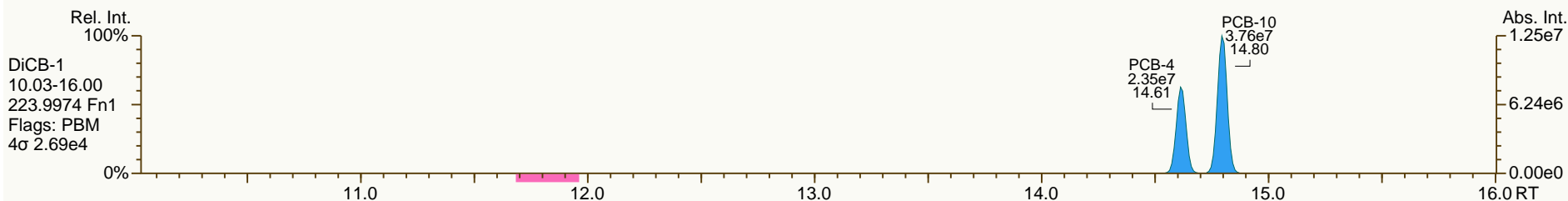
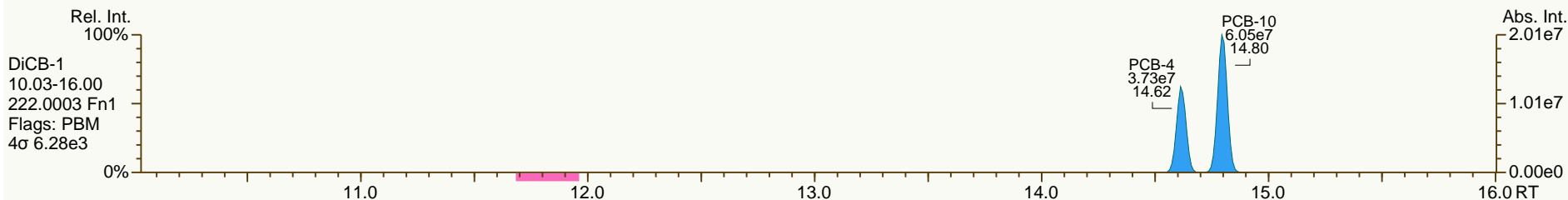
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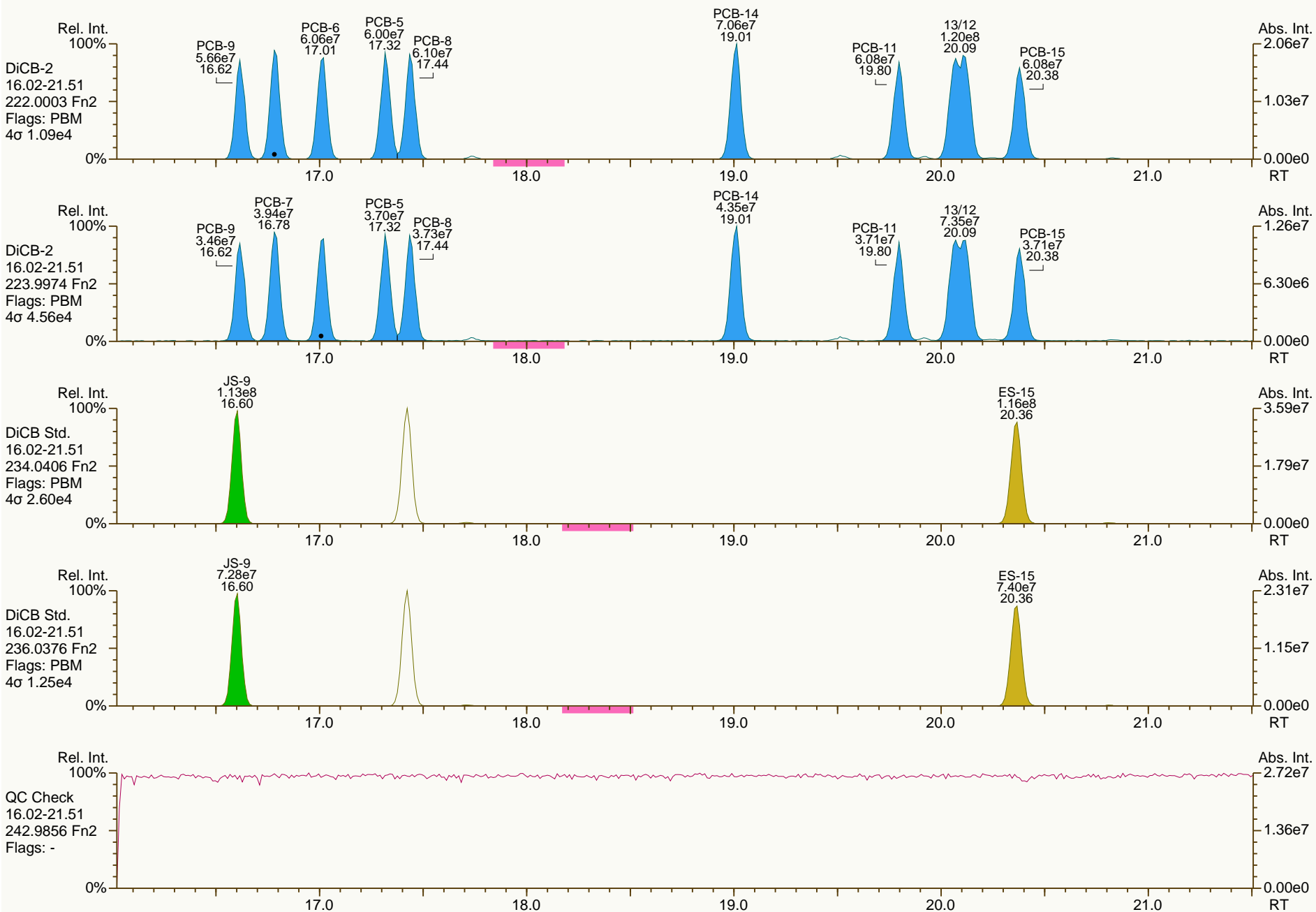




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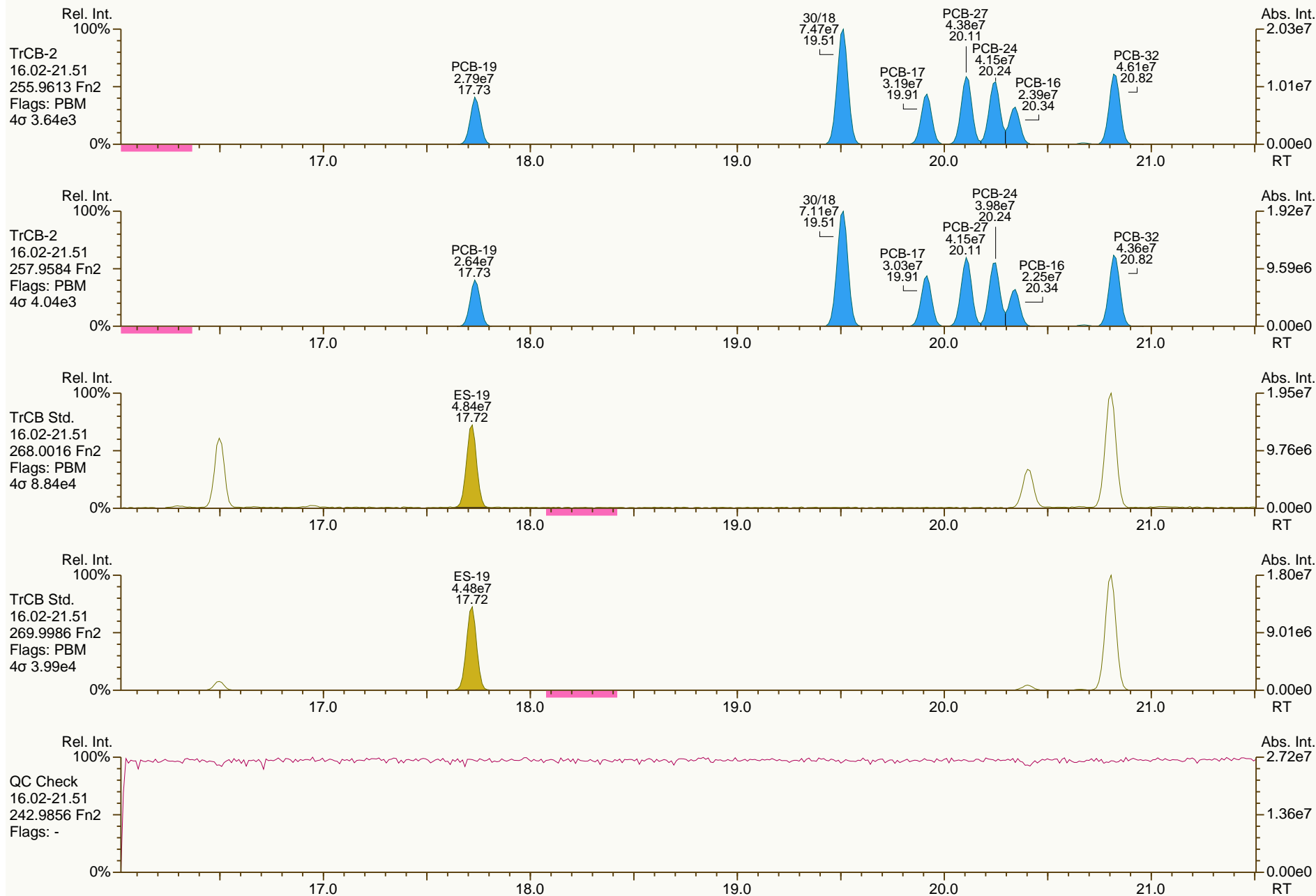
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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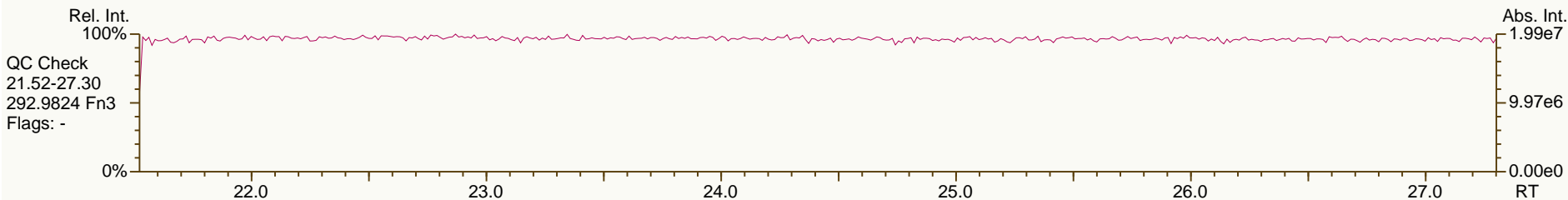
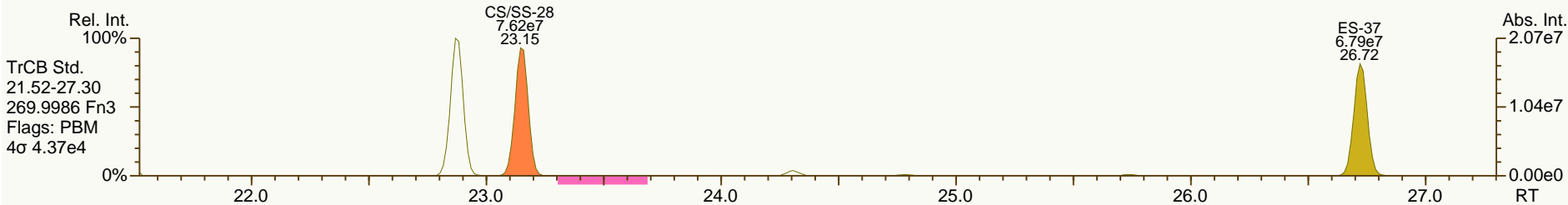
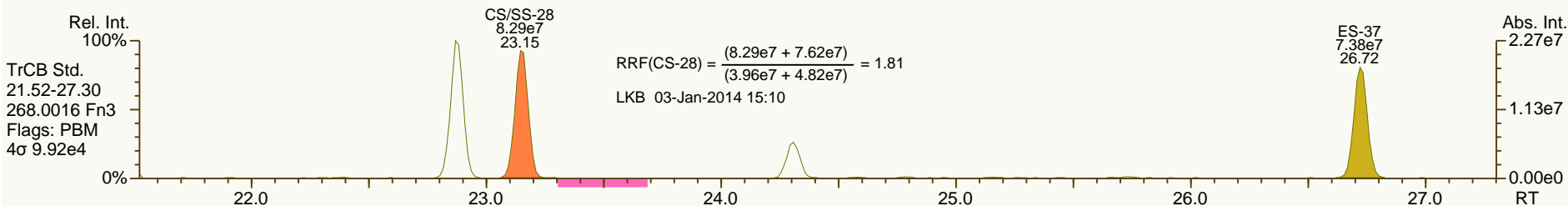
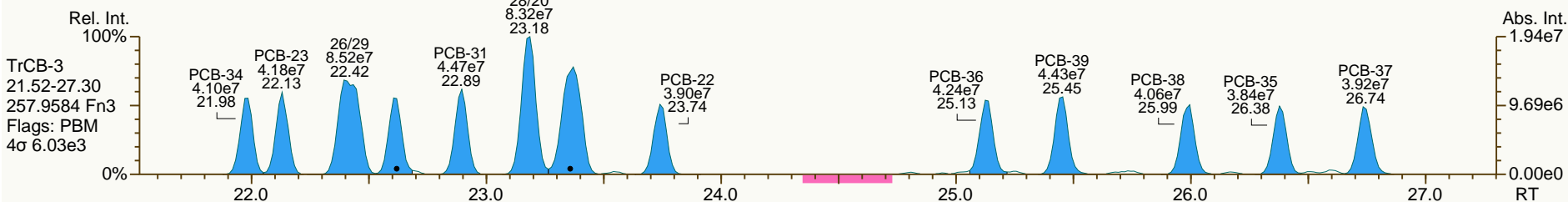
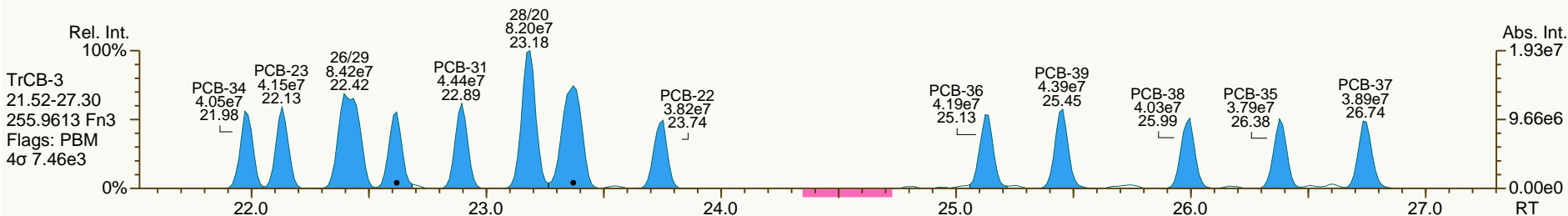
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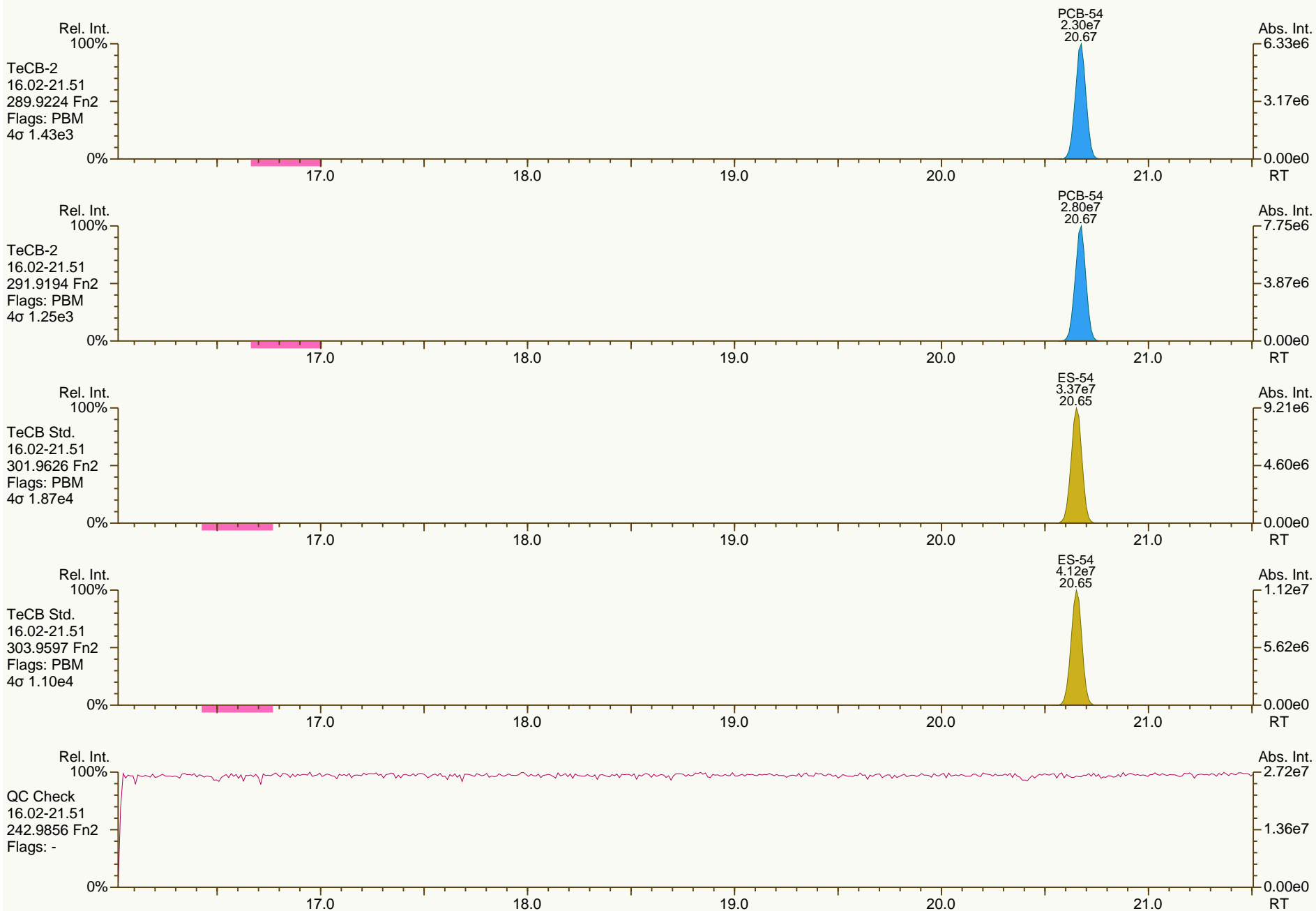
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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SGS-AP ID: CS3\_131220\_PCB\_XA  
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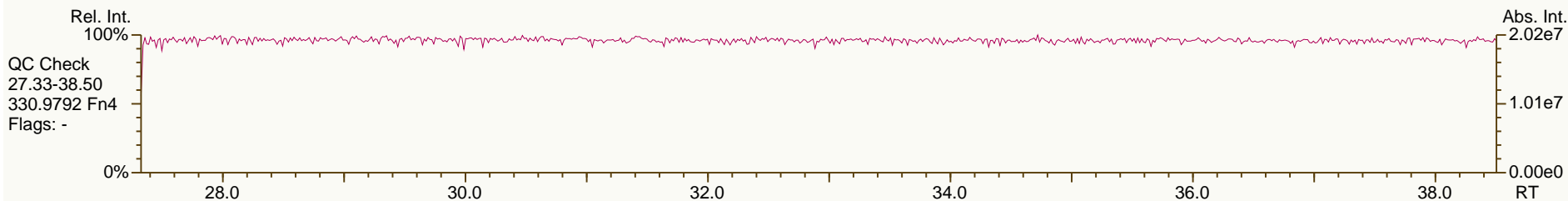
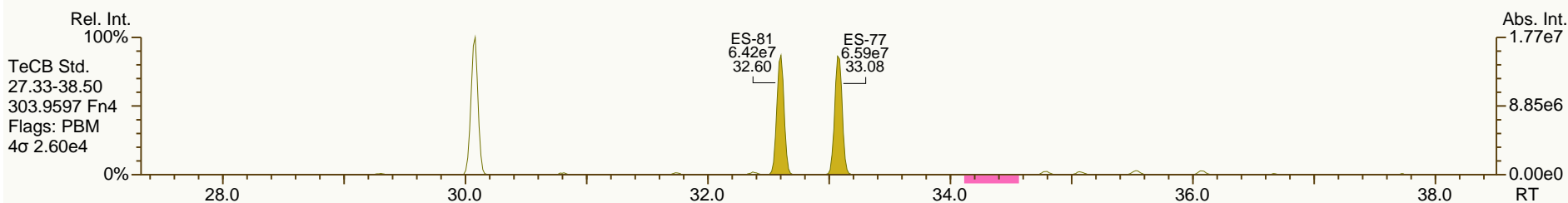
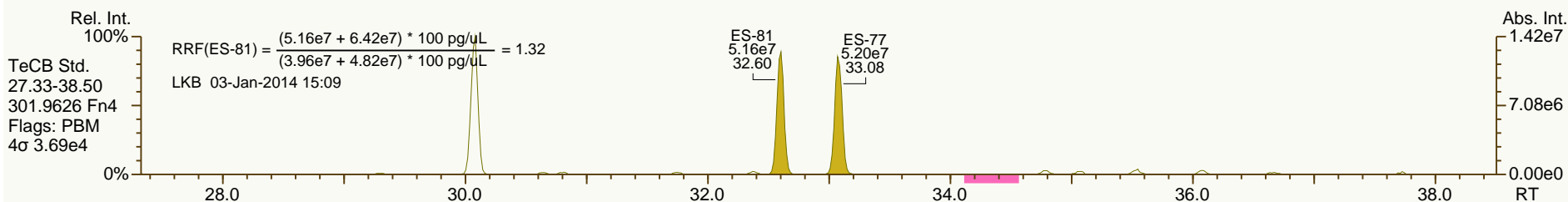
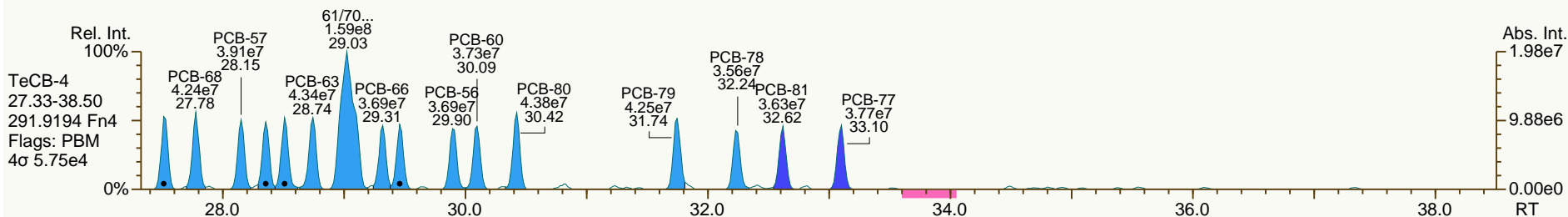
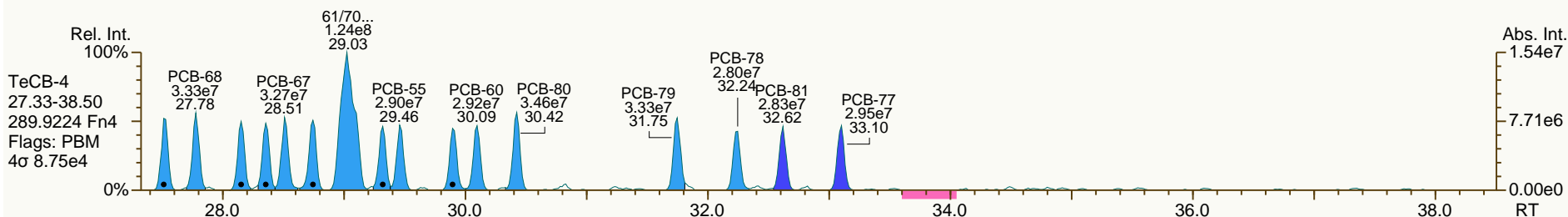
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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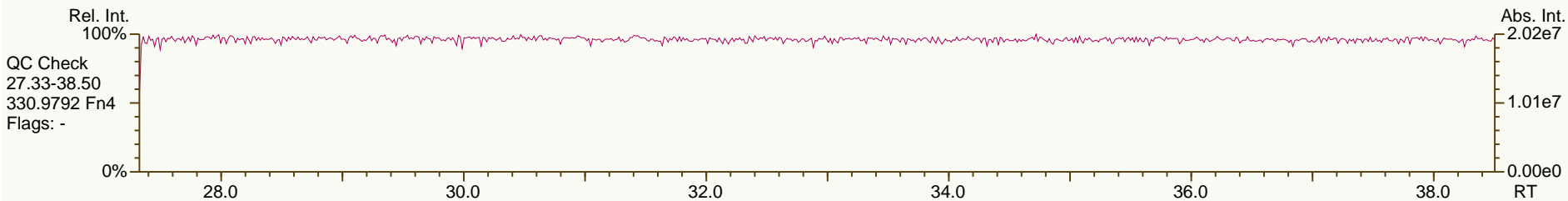
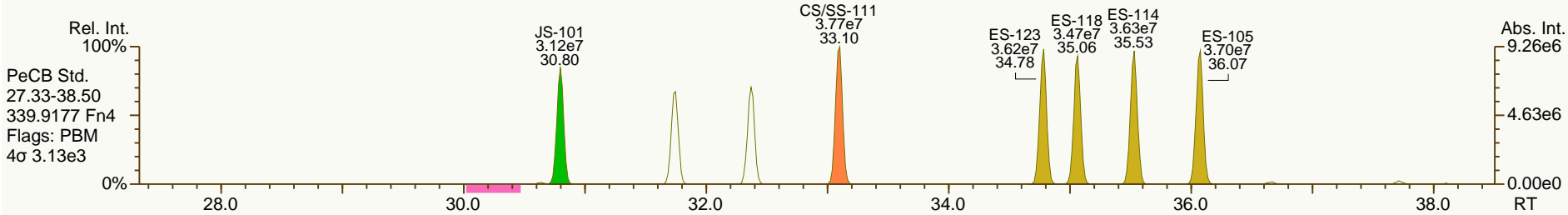
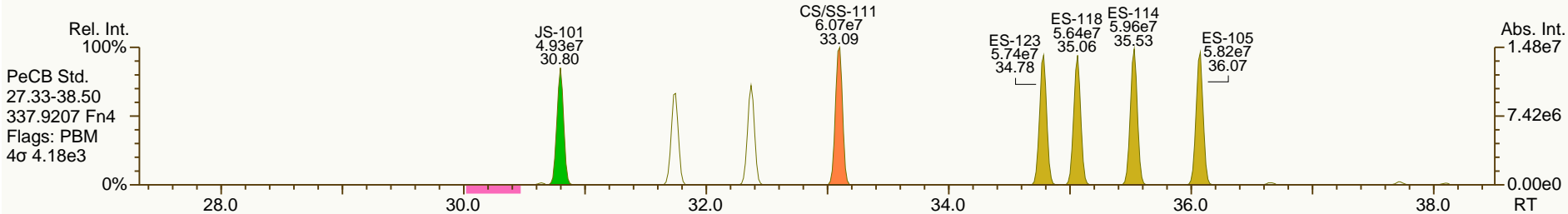
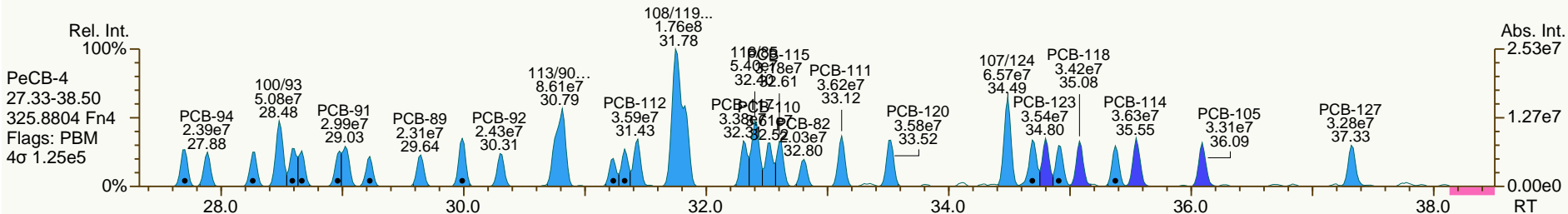
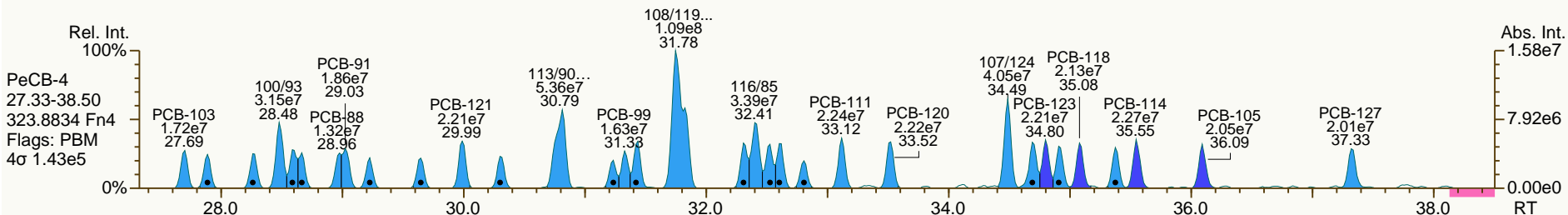
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-3  
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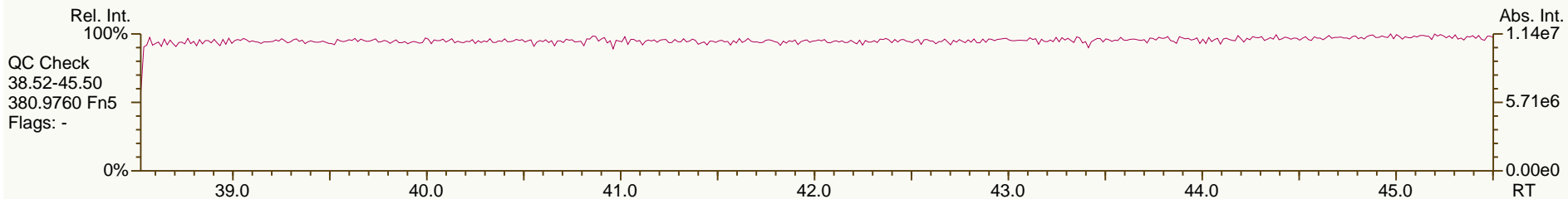
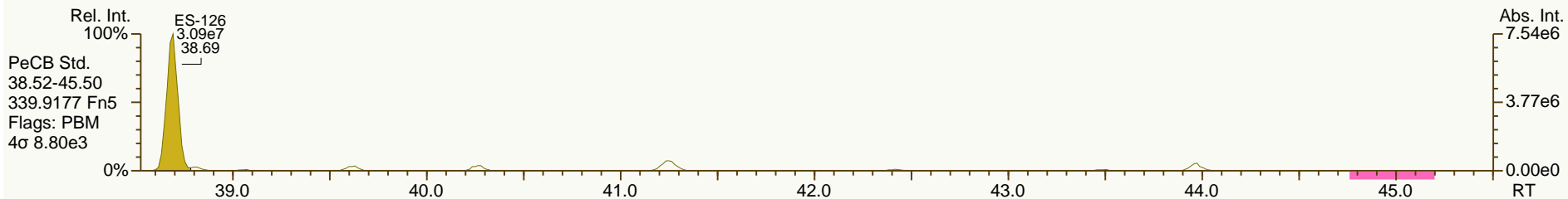
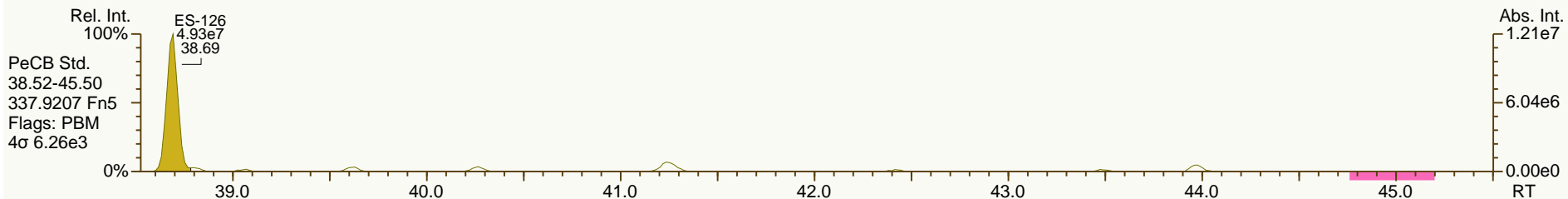
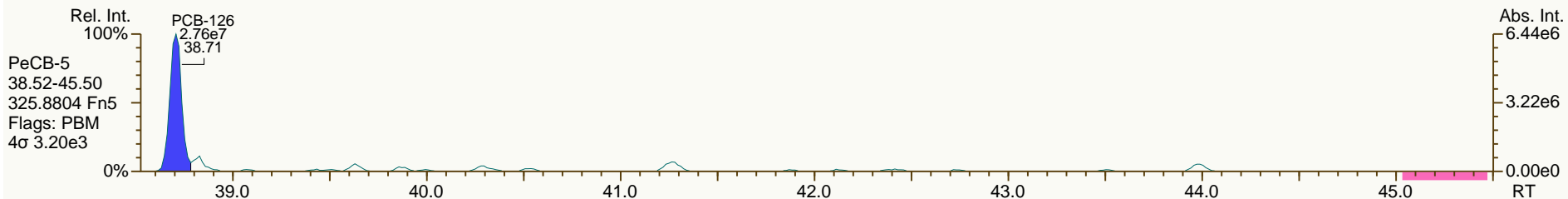
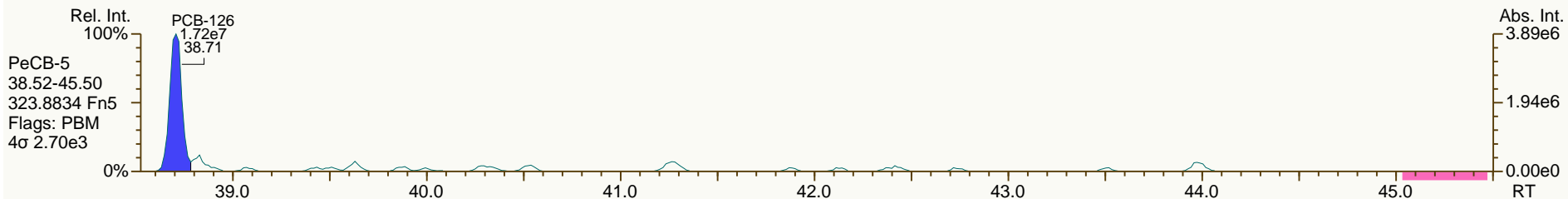




SGS-AP ID: CS3\_131220\_PCB\_XA  
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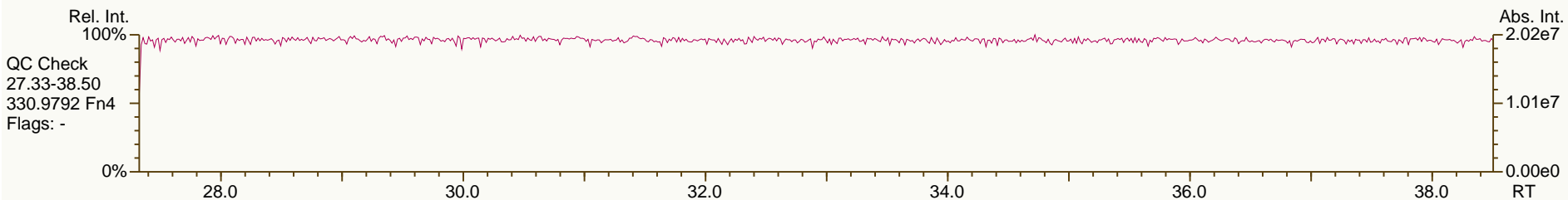
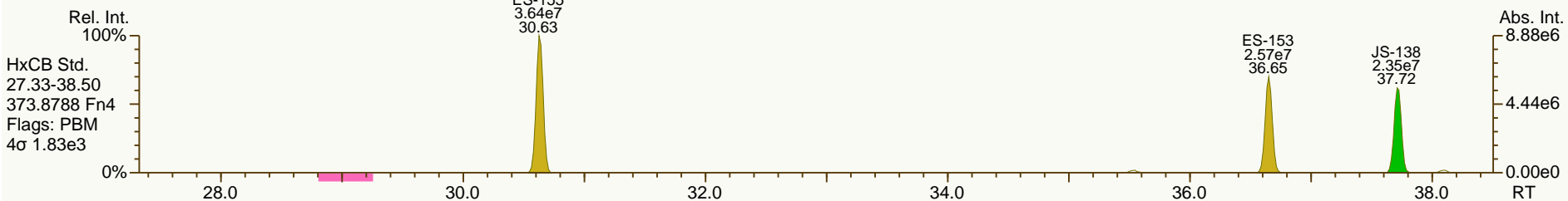
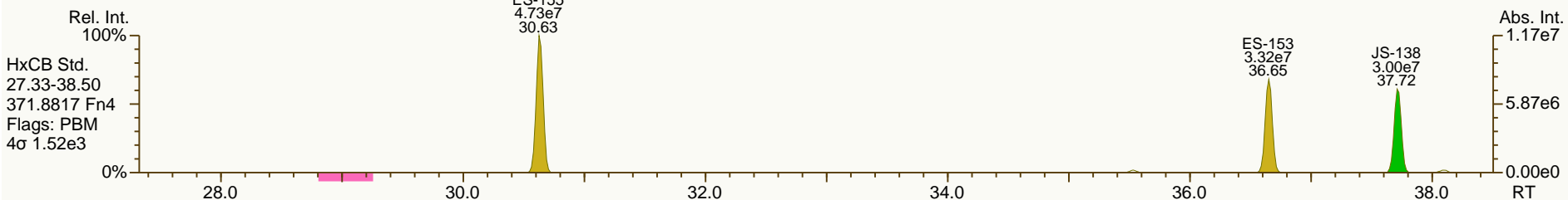
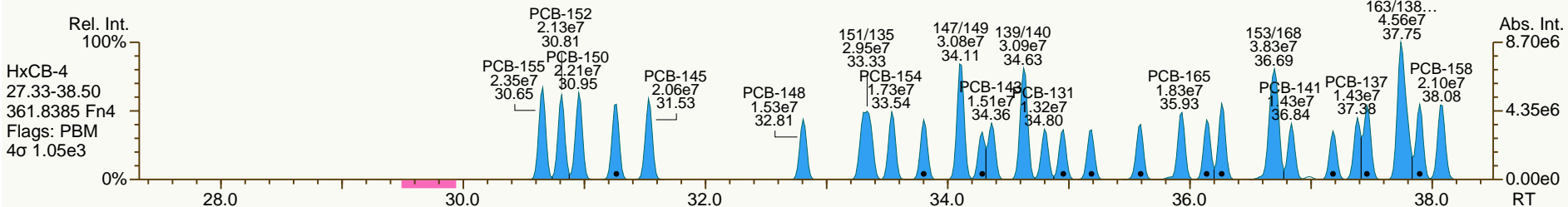
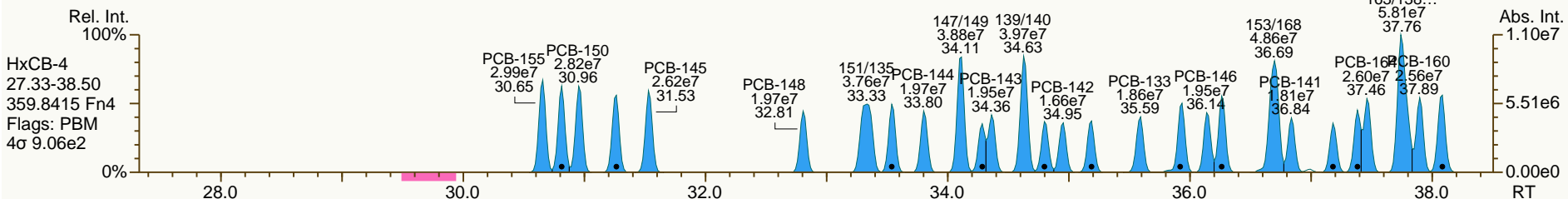
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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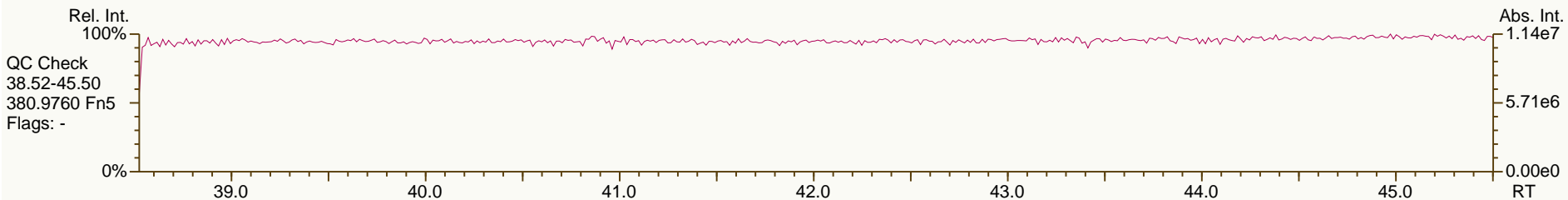
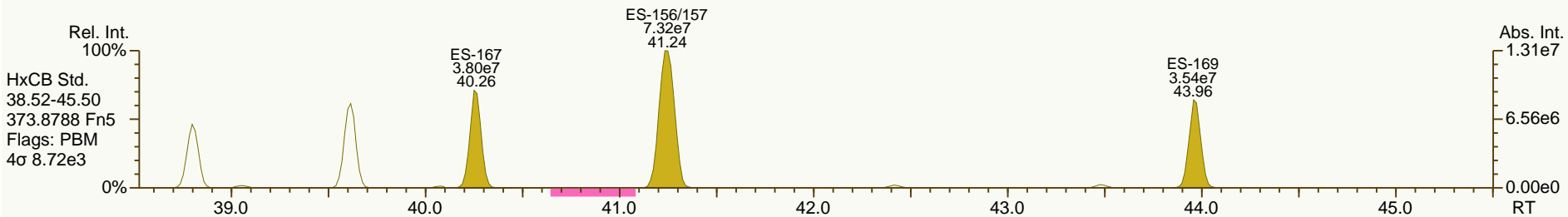
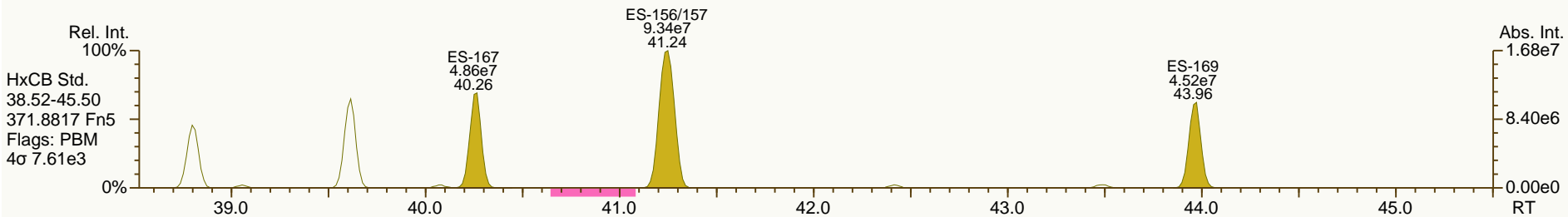
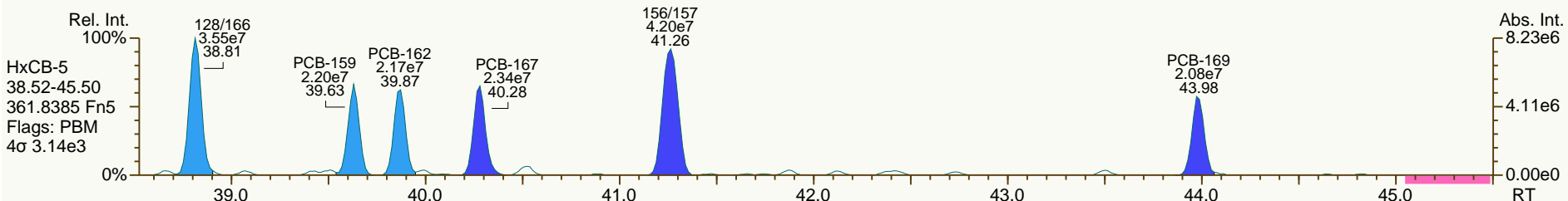
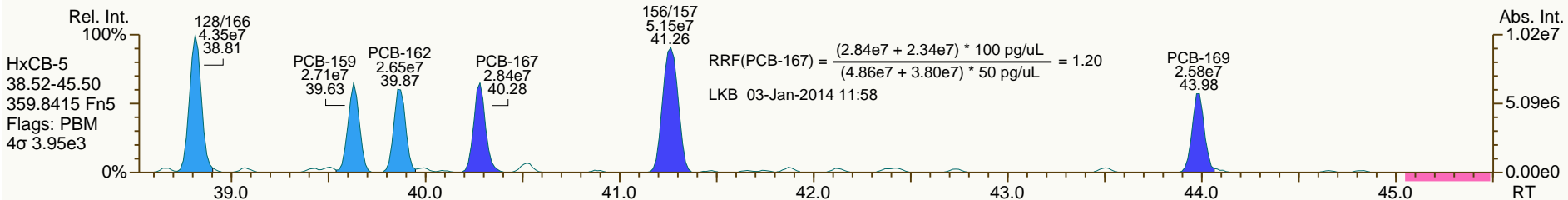
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SGS-AP ID: CS3\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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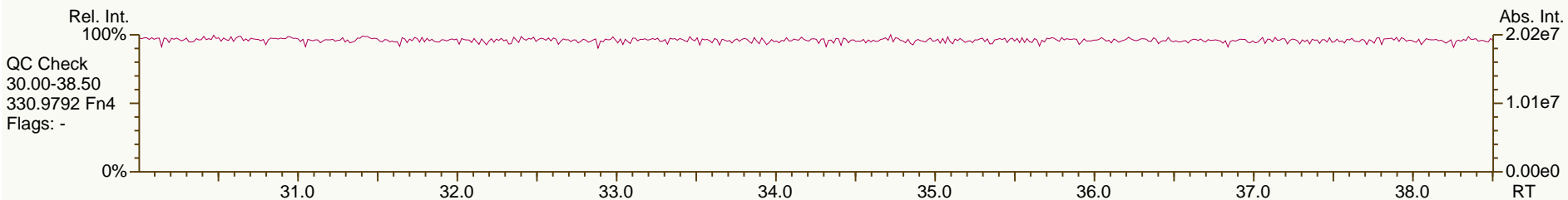
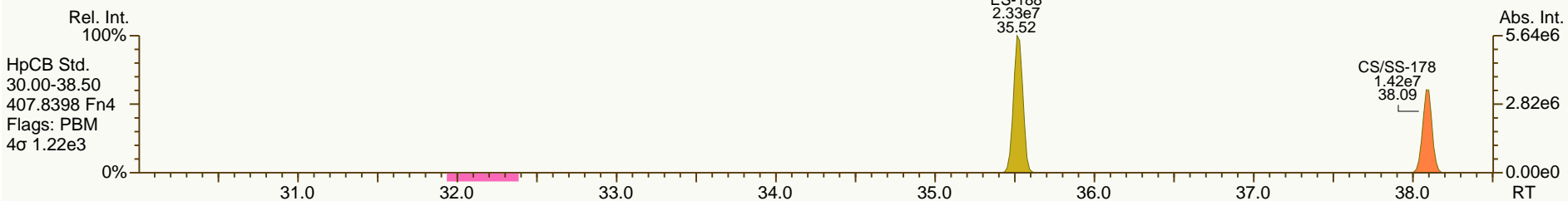
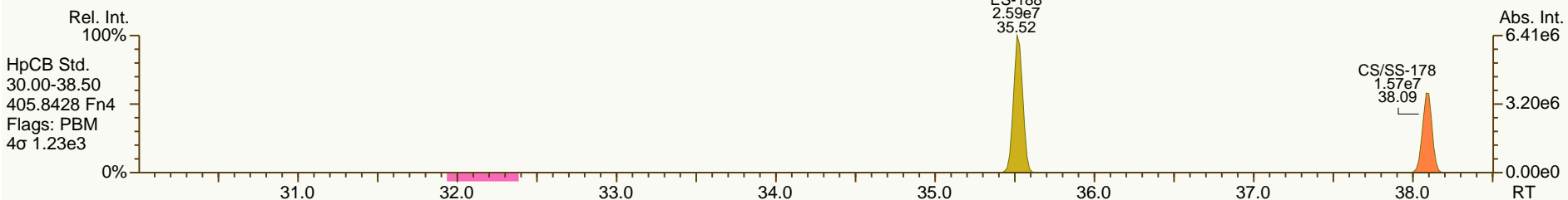
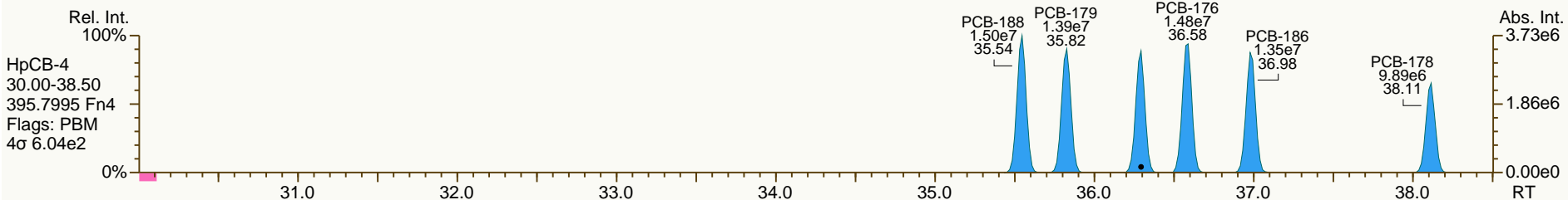
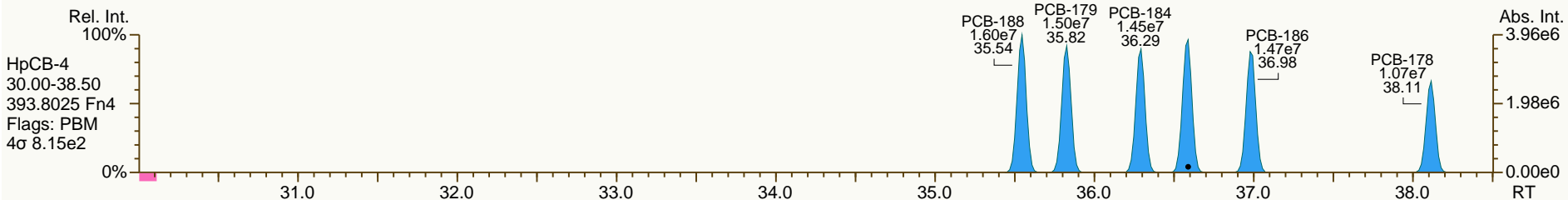
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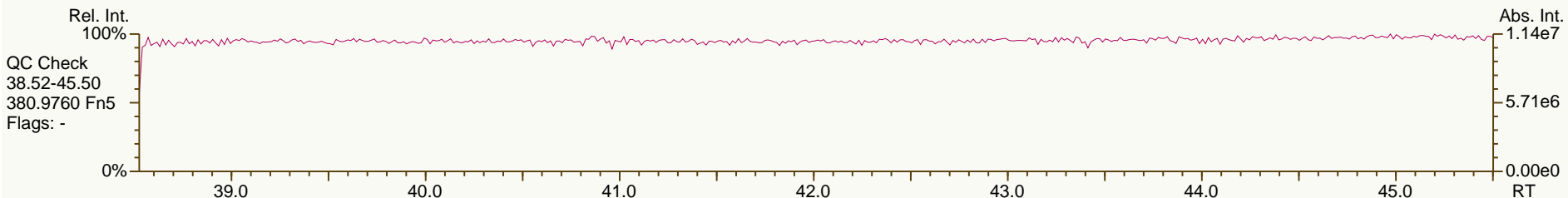
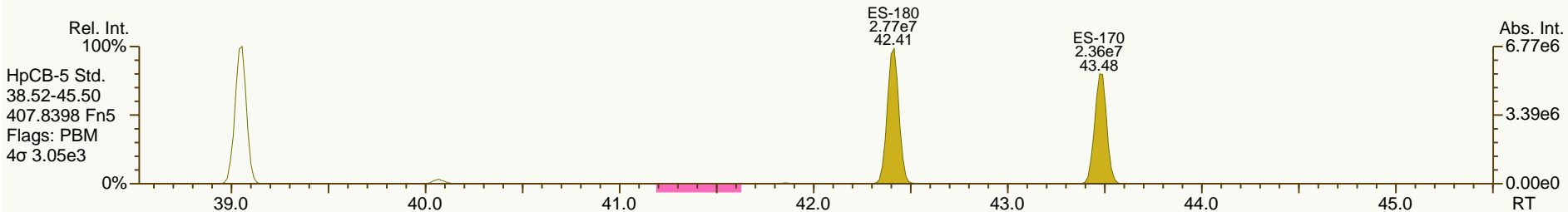
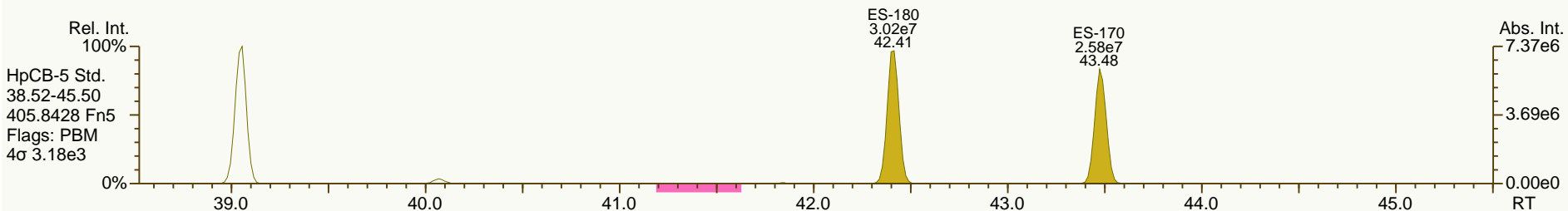
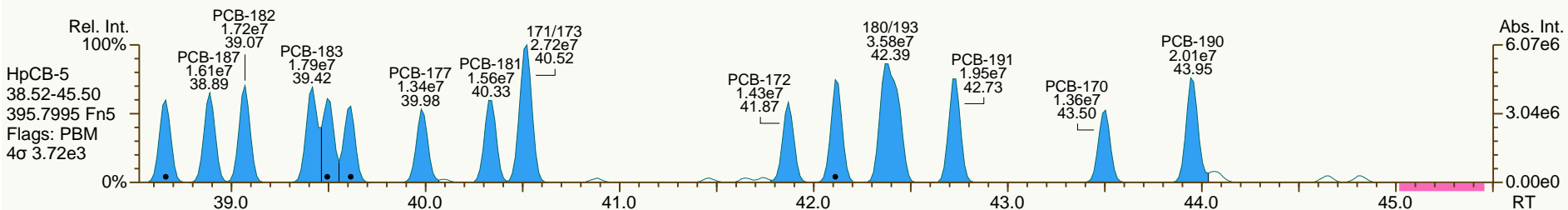
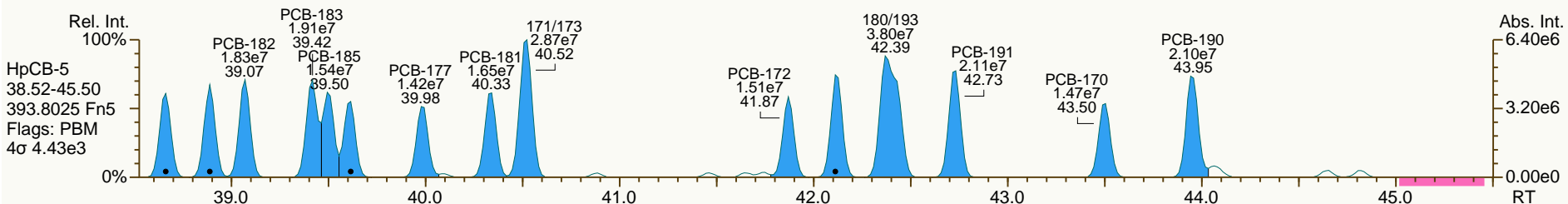
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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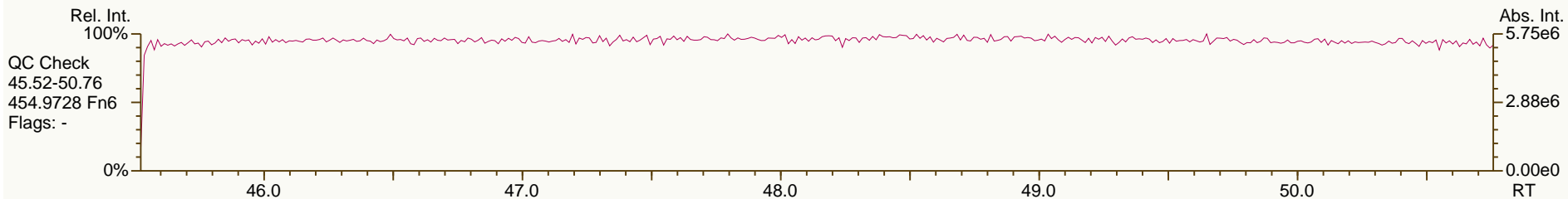
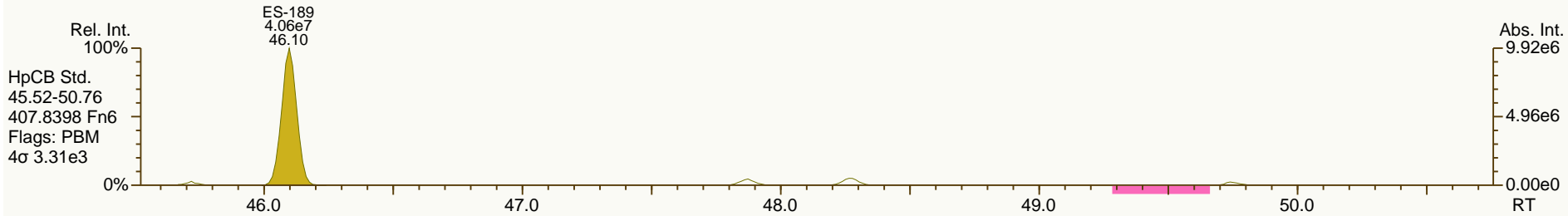
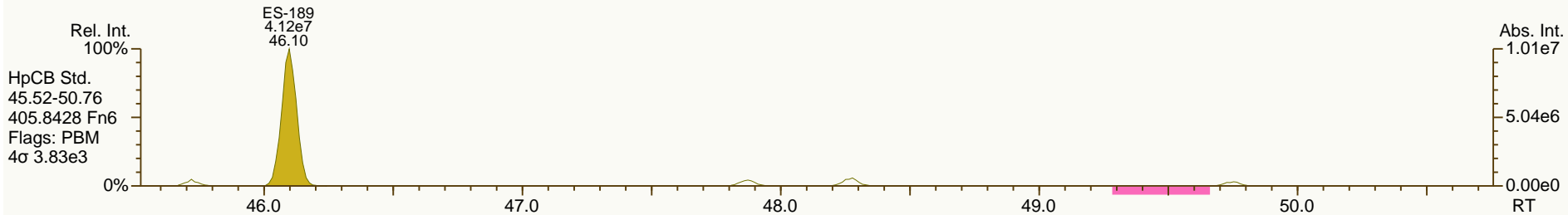
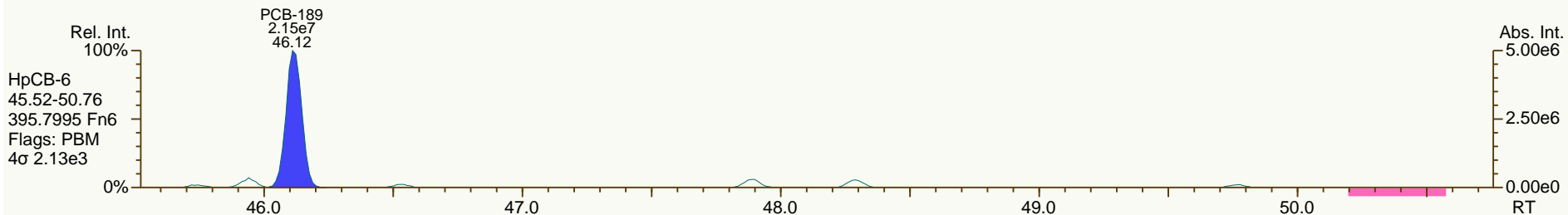
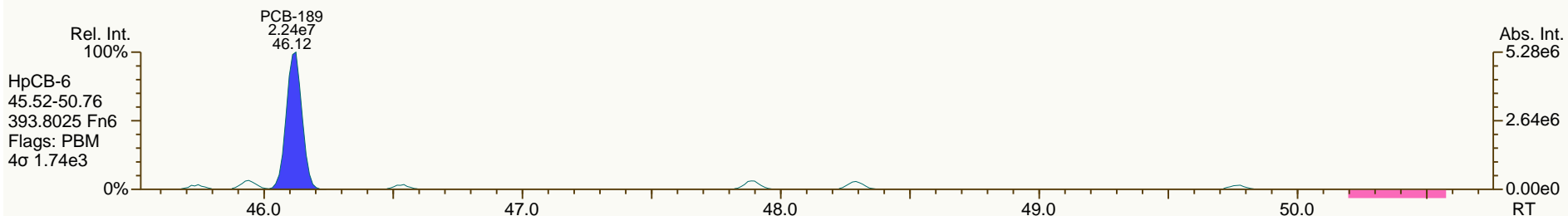
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-3  
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Sample ID: SIL 13-79-3  
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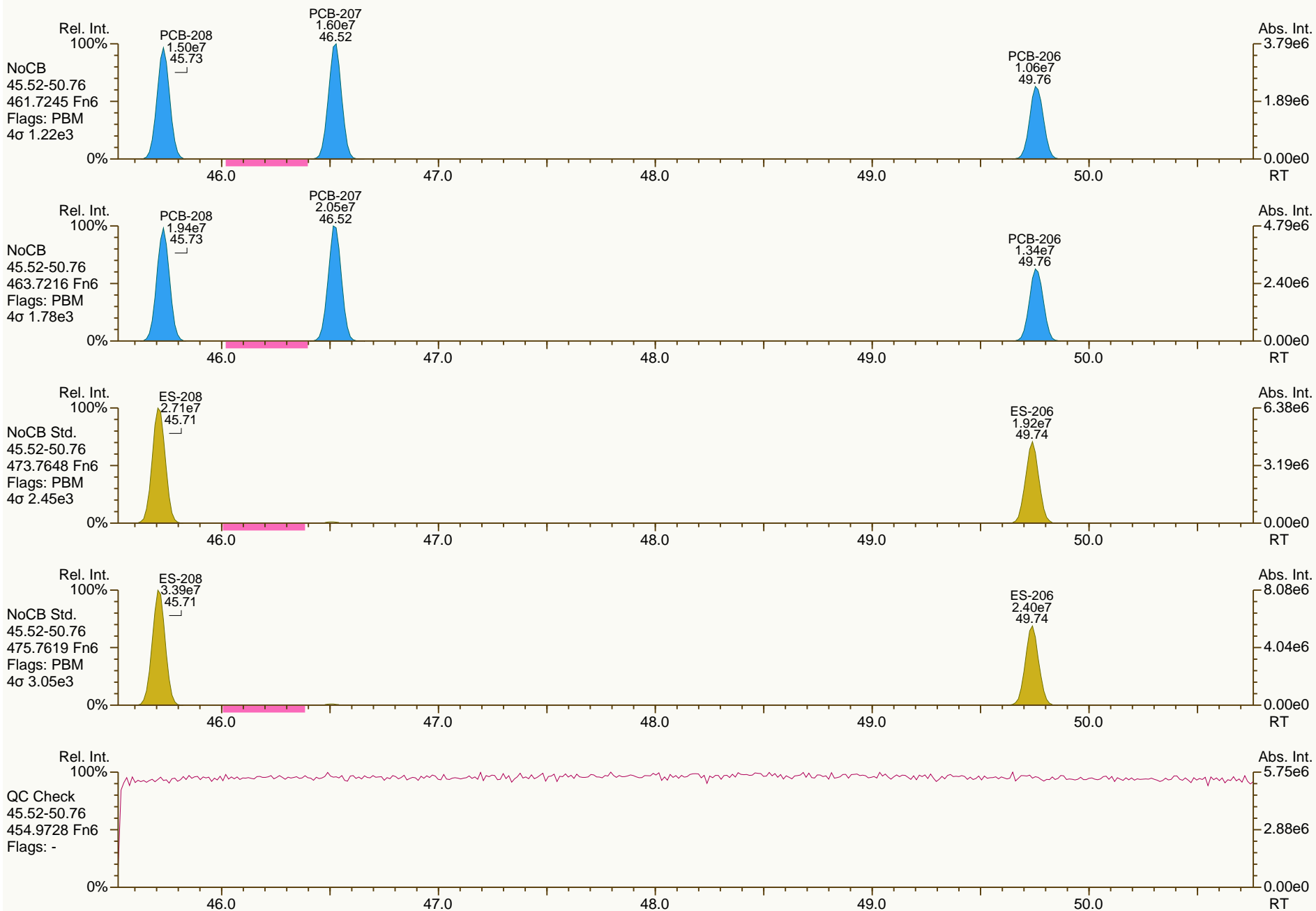




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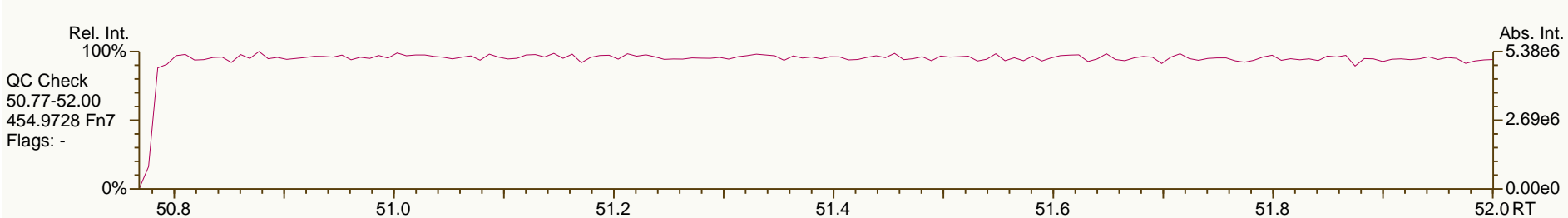
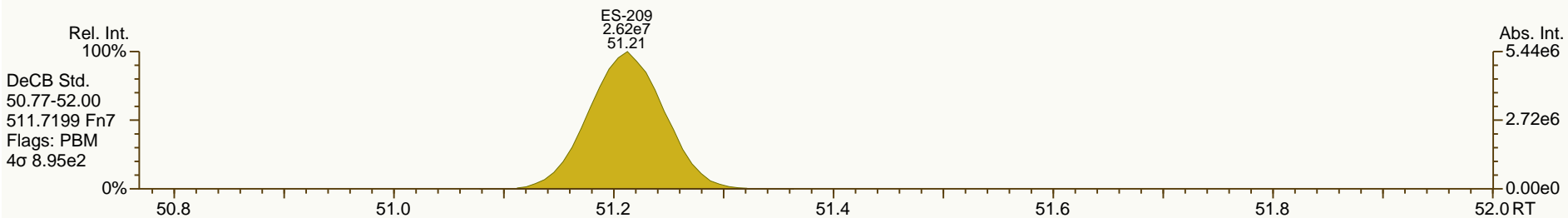
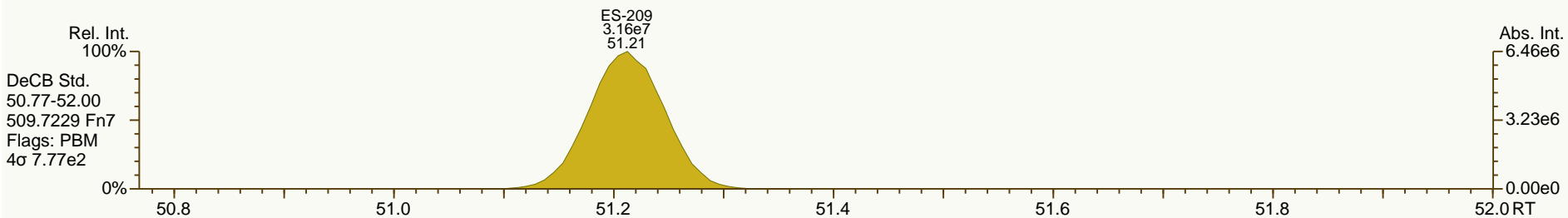
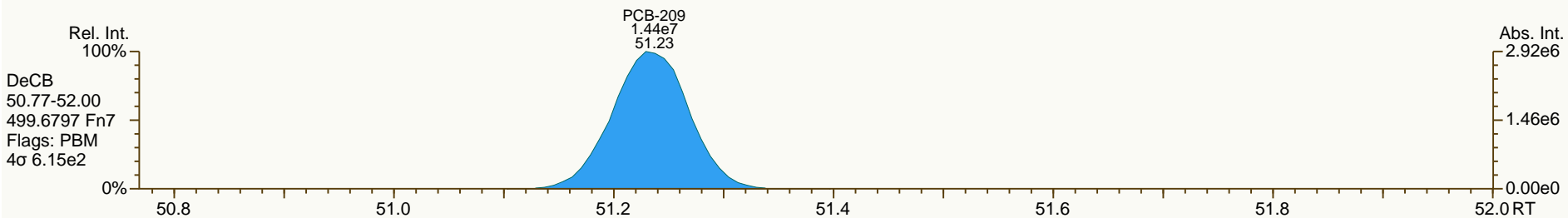
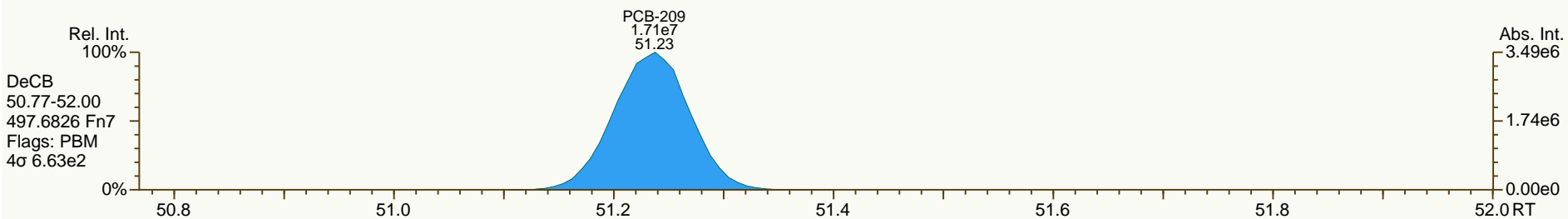
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 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

Acq: 20-Dec-2013 18:04:38  
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PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.61E+08	0.78 Y	1.15	1.17	1.7%	
PCB-81 344'5'-TeCB	32.62	6.42E+08	0.78 Y	1.12	1.14	1.9%	
PCB-105 233'44'-PeCB	36.10	5.26E+08	0.62 Y	1.11	1.15	3.3%	
PCB-114 2344'5'-PeCB	35.56	5.80E+08	0.63 Y	1.20	1.24	3.3%	
PCB-118 23'44'5'-PeCB	35.09	5.38E+08	0.62 Y	1.19	1.22	2.6%	
PCB-123 23'44'5'-PeCB	34.81	5.67E+08	0.62 Y	1.21	1.23	1.3%	
PCB-126 33'44'5'-PeCB	38.71	4.45E+08	0.63 Y	1.11	1.14	2.8%	
PCB-156/157 ...-HxCB	41.27	9.01E+08	1.22 Y	1.10	1.11	1.1%	
PCB-167 23'44'55'-HxCB	40.29	4.96E+08	1.23 Y	1.16	1.18	1.4%	
PCB-169 33'44'55'-HxCB	43.99	4.52E+08	1.24 Y	1.12	1.14	1.2%	
PCB-189 233'44'55'-HpCB	46.13	4.15E+08	1.05 Y	1.07	1.10	2.3%	
PCB-209 DeCB	51.25	2.92E+08	1.18 Y	1.11	1.10	-1.4%	
ES PCB-1	12.03	2.53E+08	3.29 Y	1.19	1.17	-1.5%	
ES PCB-3	14.35	2.32E+08	3.37 Y	1.09	1.08	-0.6%	
ES PCB-4	14.61	1.12E+08	1.64 Y	0.52	0.52	-0.1%	
ES PCB-15	20.37	2.25E+08	1.54 Y	1.04	1.05	0.6%	
ES PCB-19	17.72	1.10E+08	1.08 Y	0.51	0.51	0.9%	
ES PCB-37	26.73	1.69E+08	1.08 Y	1.66	1.66	-0.4%	
ES PCB-54	20.66	8.74E+07	0.83 Y	0.86	0.86	-0.5%	
ES PCB-77	33.08	1.41E+08	0.79 Y	1.38	1.38	0.0%	
ES PCB-81	32.61	1.41E+08	0.77 Y	1.37	1.38	1.1%	
ES PCB-104	25.66	7.69E+07	1.65 Y	0.80	0.79	-1.2%	
ES PCB-105	36.08	1.14E+08	1.60 Y	1.20	1.18	-1.7%	
ES PCB-114	35.54	1.17E+08	1.63 Y	1.22	1.21	-1.1%	
ES PCB-118	35.07	1.10E+08	1.63 Y	1.16	1.14	-1.8%	
ES PCB-123	34.79	1.15E+08	1.60 Y	1.19	1.19	0.4%	
ES PCB-126	38.70	9.79E+07	1.53 Y	1.03	1.01	-1.7%	
ES PCB-153	36.66	6.88E+07	1.31 Y	1.11	1.11	-0.6%	
ES PCB-155	30.64	9.70E+07	1.30 Y	1.59	1.56	-1.7%	
ES PCB-156/157	41.25	2.03E+08	1.29 Y	1.60	1.64	2.3%	
ES PCB-167	40.27	1.05E+08	1.27 Y	1.67	1.70	1.7%	
ES PCB-169	43.97	9.92E+07	1.27 Y	1.56	1.60	2.7%	
ES PCB-170	43.49	5.71E+07	1.09 Y	0.95	0.95	0.6%	
ES PCB-180	42.42	6.95E+07	1.09 Y	1.14	1.16	2.0%	
ES PCB-188	35.53	5.77E+07	1.13 Y	0.94	0.93	-1.0%	
ES PCB-189	46.11	9.44E+07	1.04 Y	1.58	1.57	-0.5%	
ES PCB-202	40.08	6.04E+07	0.94 Y	0.97	0.97	0.4%	
ES PCB-205	48.28	7.51E+07	0.90 Y	1.24	1.25	0.7%	
ES PCB-206	49.75	5.00E+07	0.81 Y	0.83	0.83	0.6%	
ES PCB-208	45.72	7.07E+07	0.80 Y	1.17	1.18	0.4%	
ES PCB-209	51.22	6.66E+07	1.18 Y	1.11	1.11	0.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA		ICAL: 131220 QC MM7				
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.88E+08	1.09 Y	1.11	1.11	0.2%	
SS PCB-111	33.10	1.16E+08	1.60 Y	1.03	1.00	-2.6%	
SS PCB-178	38.10	3.54E+07	1.11 Y	0.62	0.61	-1.0%	
CS PCB-28	23.16	1.88E+08	1.09 Y	1.85	1.84	-0.1%	
CS PCB-111	33.10	1.16E+08	1.60 Y	1.22	1.19	-2.2%	
CS PCB-178	38.10	3.54E+07	1.11 Y	0.58	0.57	-2.0%	
JS PCB-9	16.61	2.15E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.02E+08	0.80 Y	-	-	-	
JS PCB-101	30.80	9.69E+07	1.60 Y	-	-	-	
JS PCB-138	37.72	6.21E+07	1.30 Y	-	-	-	
JS PCB-194	47.88	6.00E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-2 3-MoCB	14.18	1.00E+09	3.28 Y	1.03	1.08	4.2%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-10 26'-DiCB	14.80	9.17E+08	1.60 Y	1.98	2.04	3.1%	
PCB-9 25'-DiCB	16.62	8.62E+08	1.63 Y	0.95	0.96	1.3%	
PCB-7 24'-DiCB	16.79	9.69E+08	1.64 Y	1.05	1.08	2.9%	
PCB-6 23'-DiCB	17.02	9.24E+08	1.65 Y	1.00	1.03	3.0%	
PCB-5 23'-DiCB	17.32	9.17E+08	1.63 Y	1.00	1.02	1.7%	
PCB-8 24'-DiCB	17.44	9.28E+08	1.63 Y	1.03	1.03	-0.2%	
PCB-14 35'-DiCB	19.01	1.09E+09	1.64 Y	1.18	1.21	2.2%	
PCB-11 33'-DiCB	19.80	9.34E+08	1.64 Y	1.01	1.04	2.7%	
PCB-13/12 34'/34'-DiCB	20.10	1.86E+09	1.64 Y	0.99	1.03	4.5%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.39E+09	1.05 Y	1.54	1.59	3.3%	
PCB-17 22'4'-TrCB	19.92	5.88E+08	1.05 Y	1.31	1.34	2.6%	
PCB-27 23'6'-TrCB	20.11	8.20E+08	1.05 Y	1.82	1.87	2.8%	
PCB-24 236'-TrCB	20.25	7.60E+08	1.05 Y	1.72	1.73	0.5%	
PCB-16 22'3'-TrCB	20.34	4.62E+08	1.06 Y	1.01	1.05	4.7%	
PCB-32 24'6'-TrCB	20.83	8.47E+08	1.05 Y	1.92	1.93	0.6%	
PCB-34 23'5'-TrCB	21.98	7.98E+08	0.99 Y	1.14	1.18	4.1%	
PCB-23 235'-TrCB	22.14	8.06E+08	0.98 Y	1.16	1.19	3.3%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.63E+09	0.98 Y	1.17	1.21	2.9%	
PCB-25 23'4'-TrCB	22.62	8.00E+08	0.97 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.90	8.40E+08	0.97 Y	1.23	1.24	1.5%	
PCB-28/20 244'/233'-TrCB	23.19	1.58E+09	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.37	1.64E+09	0.99 Y	1.17	1.21	3.3%	
PCB-22 234'-TrCB	23.75	7.44E+08	0.99 Y	1.08	1.10	2.0%	
PCB-36 33'5'-TrCB	25.14	8.17E+08	0.99 Y	1.17	1.21	3.4%	
PCB-39 34'5'-TrCB	25.46	8.41E+08	0.98 Y	1.21	1.25	2.8%	
PCB-38 345'-TrCB	25.99	7.83E+08	0.99 Y	1.10	1.16	4.9%	
PCB-35 33'4'-TrCB	26.39	7.26E+08	0.99 Y	1.04	1.07	3.4%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.00E+09	0.79 Y	0.88	0.89	1.4%	
PCB-45 22'36'-TeCB	23.27	4.42E+08	0.78 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.34	4.96E+08	0.80 Y	0.86	0.88	2.5%	
PCB-46 22'36'-TeCB	23.55	3.98E+08	0.79 Y	0.70	0.71	1.0%	
PCB-52 22'55'-TeCB	24.81	4.82E+08	0.79 Y	0.84	0.85	1.3%	
PCB-73 23'5'6'-TeCB	24.94	6.34E+08	0.78 Y	1.11	1.12	1.1%	
PCB-43 22'35'-TeCB	25.04	4.03E+08	0.80 Y	0.71	0.72	0.7%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.18E+09	0.79 Y	1.02	1.05	2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	4.79E+08	0.79 Y	0.84	0.85	1.4%	
PCB-44/47/65 ...-TeCB	25.74	1.57E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.01	2.05E+09	0.79 Y	1.17	1.22	4.3%	
PCB-42 22'34'-TeCB	26.18	4.36E+08	0.79 Y	0.76	0.77	1.5%	
PCB-41 22'34'-TeCB	26.51	3.81E+08	0.78 Y	0.69	0.68	-2.7%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.02E+09	0.80 Y	0.86	0.90	4.9%	
PCB-64 234'6'-TeCB	26.81	7.02E+08	0.79 Y	1.22	1.25	2.0%	
PCB-72 23'55'-TeCB	27.53	6.86E+08	0.78 Y	1.21	1.22	0.7%	
PCB-68 23'45'-TeCB	27.78	7.41E+08	0.78 Y	1.28	1.31	2.9%	
PCB-57 233'5'-TeCB	28.16	6.53E+08	0.78 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.36	6.72E+08	0.78 Y	1.18	1.19	1.1%	
PCB-67 23'45'-TeCB	28.52	7.17E+08	0.78 Y	1.26	1.27	1.1%	
PCB-63 234'5'-TeCB	28.75	7.44E+08	0.78 Y	1.30	1.32	1.7%	
PCB-61/70/74/76 ...-TeCB	29.04	2.76E+09	0.78 Y	1.20	1.22	2.2%	
PCB-66 23'44'-TeCB	29.32	6.42E+08	0.78 Y	1.10	1.14	3.3%	
PCB-55 233'4'-TeCB	29.47	6.33E+08	0.78 Y	1.12	1.12	0.3%	
PCB-56 233'4'-TeCB	29.91	6.29E+08	0.78 Y	1.11	1.12	0.6%	
PCB-60 2344'-TeCB	30.10	6.41E+08	0.78 Y	1.14	1.14	0.2%	
PCB-80 33'55'-TeCB	30.43	7.47E+08	0.78 Y	1.31	1.32	0.9%	
PCB-79 33'45'-TeCB	31.75	7.60E+08	0.78 Y	1.31	1.35	3.2%	
PCB-78 33'45'-TeCB	32.25	6.10E+08	0.78 Y	1.06	1.08	1.9%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-96 22'366'-PeCB	26.00	3.93E+08	0.65 Y	1.23	1.28	3.9%	
PCB-103 22'45'6'-PeCB	27.70	4.37E+08	0.62 Y	0.93	0.95	1.6%	
PCB-94 22'356'-PeCB	27.89	3.75E+08	0.62 Y	0.80	0.81	1.6%	
PCB-95 22'35'6'-PeCB	28.27	4.04E+08	0.62 Y	0.87	0.87	0.9%	
PCB-100/93 22'44'6/22'356'-PeCB	28.49	8.29E+08	0.62 Y	0.86	0.90	3.9%	
PCB-102 22'456'-PeCB	28.60	4.01E+08	0.62 Y	0.97	0.87	-10.2%	
PCB-98 22'34'6'-PeCB	28.67	3.96E+08	0.62 Y	0.76	0.86	13.2%	
PCB-88 22'346'-PeCB	28.98	3.93E+08	0.62 Y	0.80	0.85	6.8%	
PCB-91 22'34'6'-PeCB	29.04	4.40E+08	0.63 Y	0.94	0.95	0.9%	
PCB-84 22'33'6'-PeCB	29.23	3.38E+08	0.63 Y	0.72	0.73	2.3%	
PCB-89 22'346'-PeCB	29.65	3.62E+08	0.62 Y	0.76	0.78	2.8%	
PCB-121 23'45'6'-PeCB	29.99	5.66E+08	0.62 Y	1.20	1.23	2.2%	
PCB-92 22'355'-PeCB	30.31	3.81E+08	0.62 Y	0.82	0.83	0.7%	
PCB-113/90/101 ...-PeCB	30.80	1.39E+09	0.62 Y	0.99	1.01	2.0%	
PCB-83 22'33'5'-PeCB	31.24	3.22E+08	0.62 Y	0.71	0.70	-2.5%	
PCB-99 22'44'5'-PeCB	31.34	4.51E+08	0.62 Y	0.92	0.98	6.1%	
PCB-112 233'56'-PeCB	31.44	5.42E+08	0.62 Y	1.17	1.17	0.5%	
PCB-108/119/86/97/125...-PeCB	31.78	2.82E+09	0.63 Y	0.98	1.02	3.8%	
PCB-117 234'56'-PeCB	32.32	5.03E+08	0.62 Y	1.14	1.09	-4.3%	
PCB-116/85 23456/22'344'-PeCB	32.41	9.15E+08	0.62 Y	0.94	0.99	5.3%	
PCB-110 233'4'6'-PeCB	32.53	5.11E+08	0.62 Y	1.12	1.11	-1.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.34E+08	0.63 Y	1.16	1.16	-0.2%	
PCB-82 22'33'4-PeCB	32.81	3.31E+08	0.62 Y	0.70	0.72	3.0%	
PCB-111 233'55'-PeCB	33.12	5.66E+08	0.62 Y	1.22	1.23	0.5%	
PCB-120 23'455'-PeCB	33.52	5.76E+08	0.62 Y	1.21	1.25	2.9%	
PCB-107/124 ...-PeCB	34.49	1.03E+09	0.62 Y	1.10	1.12	2.0%	
PCB-109 233'46-PeCB	34.70	5.82E+08	0.62 Y	1.25	1.26	0.6%	
PCB-106 233'45-PeCB	34.92	5.22E+08	0.62 Y	1.11	1.13	2.4%	
PCB-122 233'4'5'-PeCB	35.38	4.75E+08	0.63 Y	0.99	1.02	2.2%	
PCB-127 33'455'-PeCB	37.34	5.12E+08	0.63 Y	1.10	1.12	2.2%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-152 22'3566'-HxCB	30.82	4.78E+08	1.27 Y	1.17	1.23	5.1%	
PCB-150 22'34'66'-HxCB	30.96	4.68E+08	1.27 Y	1.18	1.21	2.7%	
PCB-136 22'33'66'-HxCB	31.27	4.35E+08	1.27 Y	1.07	1.12	5.1%	
PCB-145 22'3466'-HxCB	31.54	4.41E+08	1.27 Y	1.11	1.14	2.1%	
PCB-148 22'34'56'-HxCB	32.82	3.38E+08	1.27 Y	1.18	1.23	3.8%	
PCB-151/135 ...-HxCB	33.34	6.39E+08	1.28 Y	1.14	1.16	1.9%	
PCB-154 22'44'56'-HxCB	33.55	3.76E+08	1.27 Y	1.34	1.37	1.9%	
PCB-144 22'345'6-HxCB	33.81	3.29E+08	1.28 Y	1.18	1.20	1.2%	
PCB-147/149 ...-HxCB	34.11	6.68E+08	1.27 Y	1.18	1.21	3.2%	
PCB-134 22'33'56-HxCB	34.29	2.65E+08	1.26 Y	0.92	0.96	4.4%	
PCB-143 22'3456'-HxCB	34.37	3.08E+08	1.28 Y	1.13	1.12	-1.0%	
PCB-139/140 ...-HxCB	34.64	6.80E+08	1.27 Y	1.21	1.24	2.6%	
PCB-131 22'33'46-HxCB	34.81	2.87E+08	1.28 Y	1.03	1.04	1.8%	
PCB-142 22'3456-HxCB	34.96	2.82E+08	1.29 Y	0.99	1.03	3.6%	
PCB-132 22'33'46'-HxCB	35.19	2.84E+08	1.30 Y	1.03	1.03	0.3%	
PCB-133 22'33'55'-HxCB	35.59	3.19E+08	1.28 Y	1.13	1.16	2.4%	
PCB-165 233'55'6-HxCB	35.94	3.83E+08	1.28 Y	1.41	1.39	-1.3%	
PCB-146 22'34'55'-HxCB	36.15	3.42E+08	1.27 Y	1.20	1.24	3.4%	
PCB-161 233'45'6-HxCB	36.27	4.26E+08	1.28 Y	1.52	1.55	1.8%	
PCB-153/168 ...-HxCB	36.70	8.26E+08	1.27 Y	1.46	1.50	3.0%	
PCB-141 22'3455'-HxCB	36.85	3.01E+08	1.29 Y	1.09	1.10	0.7%	
PCB-130 22'33'45'-HxCB	37.19	2.69E+08	1.27 Y	0.97	0.98	0.6%	
PCB-137 22'344'5-HxCB	37.39	3.35E+08	1.27 Y	1.16	1.22	4.6%	
PCB-164 233'4'5'6-HxCB	37.47	4.16E+08	1.29 Y	1.50	1.51	0.9%	
PCB-163/138/129 ...-HxCB	37.76	1.01E+09	1.27 Y	1.19	1.23	3.3%	
PCB-160 233'456-HxCB	37.90	4.29E+08	1.27 Y	1.52	1.56	2.8%	
PCB-158 233'44'6-HxCB	38.09	4.60E+08	1.28 Y	1.66	1.67	0.5%	
PCB-128/166 ...-HxCB	38.82	7.86E+08	1.23 Y	0.90	0.93	3.7%	
PCB-159 233'455'-HxCB	39.64	4.70E+08	1.23 Y	1.11	1.12	0.1%	
PCB-162 233'4'55'-HxCB	39.88	4.62E+08	1.22 Y	1.07	1.10	2.4%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-179 22'33'566'-HpCB	35.83	2.67E+08	1.10 Y	1.16	1.16	-0.3%	
PCB-184 22'344'66'-HpCB	36.30	2.61E+08	1.09 Y	1.13	1.13	0.2%	

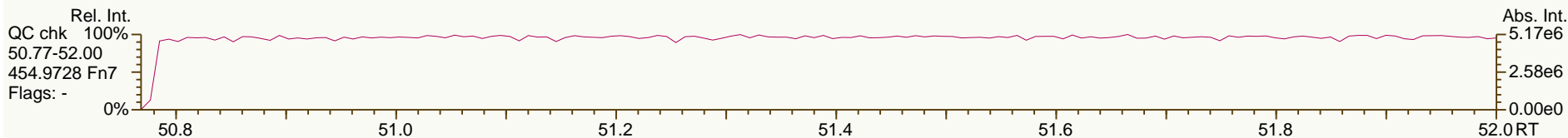
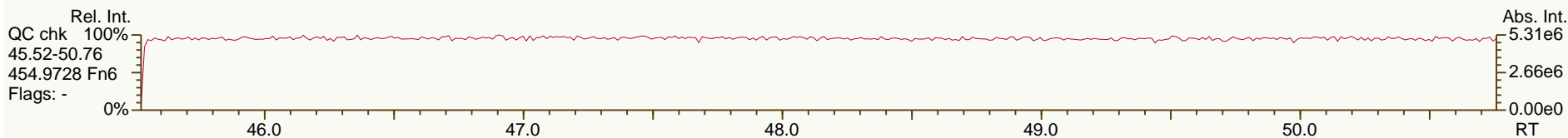
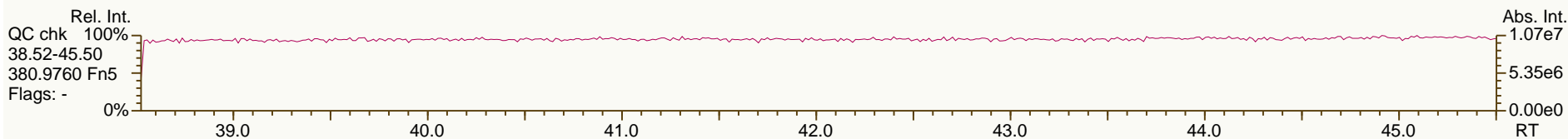
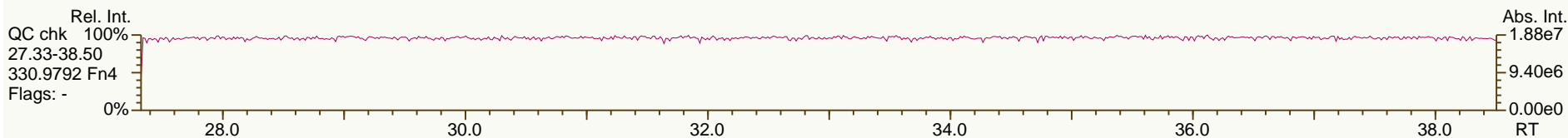
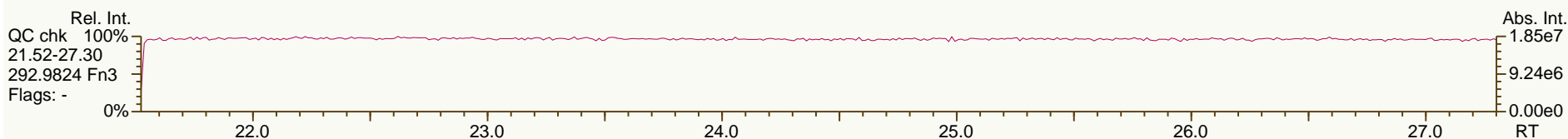
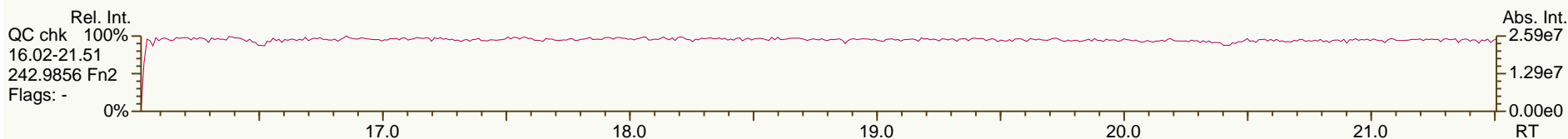
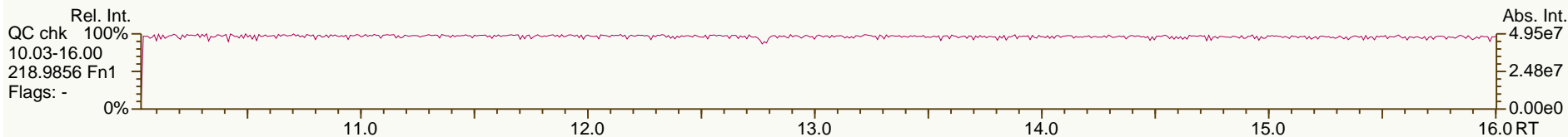
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Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	2.85E+08	1.09 Y	1.23	1.24	0.3%	
PCB-186 22'34566'-HpCB	36.99	2.59E+08	1.08 Y	1.13	1.12	-0.3%	
PCB-178 22'33'55'6'-HpCB	38.12	1.94E+08	1.08 Y	0.84	0.84	-0.6%	
PCB-175 22'33'45'6'-HpCB	38.67	3.05E+08	1.06 Y	1.07	1.10	2.1%	
PCB-187 22'34'55'6'-HpCB	38.90	3.25E+08	1.06 Y	1.14	1.17	2.6%	
PCB-182 22'344'56'-HpCB	39.08	3.35E+08	1.06 Y	1.18	1.21	2.7%	
PCB-183 22'344'5'6'-HpCB	39.42	3.29E+08	1.05 Y	1.20	1.18	-1.8%	
PCB-185 22'3455'6'-HpCB	39.51	3.20E+08	1.06 Y	1.06	1.15	8.5%	
PCB-174 22'33'456'-HpCB	39.62	2.73E+08	1.06 Y	0.99	0.98	-0.9%	
PCB-177 22'33'45'6'-HpCB	39.99	2.68E+08	1.06 Y	0.95	0.96	1.4%	
PCB-181 22'344'56'-HpCB	40.34	3.10E+08	1.06 Y	1.09	1.12	2.5%	
PCB-171/173 ...-HpCB	40.53	5.43E+08	1.06 Y	0.95	0.98	3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.79E+08	1.06 Y	0.99	1.00	1.6%	
PCB-192 233'455'6'-HpCB	42.13	3.67E+08	1.06 Y	1.29	1.32	2.6%	
PCB-180/193 ...-HpCB	42.40	7.06E+08	1.06 Y	1.26	1.27	0.7%	
PCB-191 233'44'5'6'-HpCB	42.74	3.88E+08	1.06 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.51	2.72E+08	1.05 Y	1.14	1.19	4.9%	
PCB-190 233'44'56'-HpCB	43.96	3.86E+08	1.06 Y	1.66	1.69	1.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-201 22'33'45'66'-OcCB	40.89	3.08E+08	0.92 Y	1.22	1.27	4.3%	
PCB-204 22'344'566'-OcCB	41.47	2.70E+08	0.92 Y	1.12	1.12	0.3%	
PCB-197 22'33'44'66'-OcCB	41.66	2.93E+08	0.91 Y	1.19	1.21	1.7%	
PCB-200 22'33'4566'-OcCB	41.75	2.71E+08	0.92 Y	1.11	1.12	1.3%	
PCB-198/199 ...-OcCB	44.07	3.95E+08	0.91 Y	0.81	0.82	0.9%	
PCB-196 22'33'44'56'-OcCB	44.65	2.03E+08	0.92 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.82	2.13E+08	0.92 Y	0.87	0.88	1.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.31E+08	0.91 Y	0.77	0.77	0.4%	
PCB-194 22'33'44'55'-OcCB	47.90	2.54E+08	0.92 Y	0.84	0.85	0.4%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-207 22'33'44'566'-NoCB	46.53	3.40E+08	0.79 Y	1.19	1.20	1.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	



SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

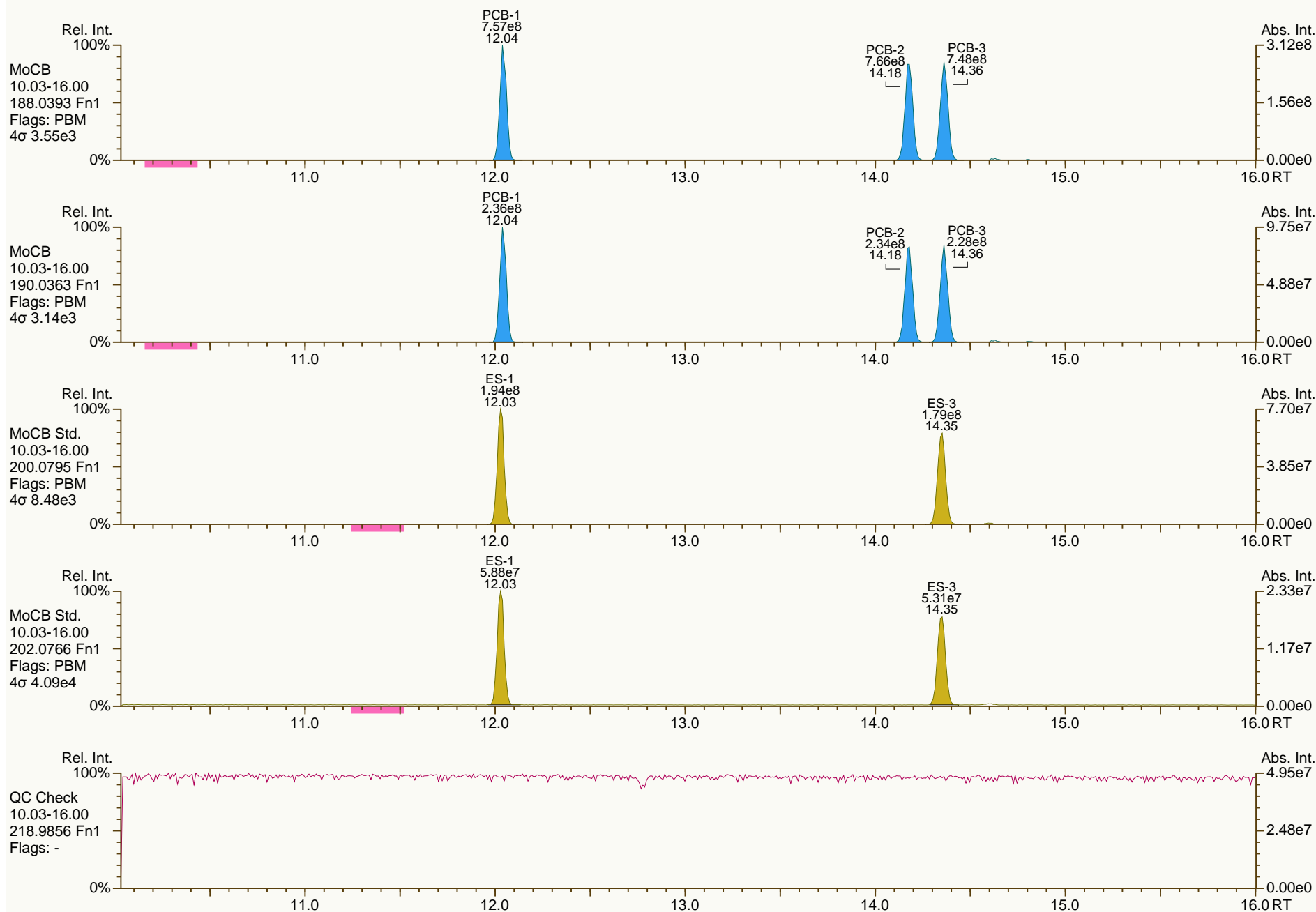
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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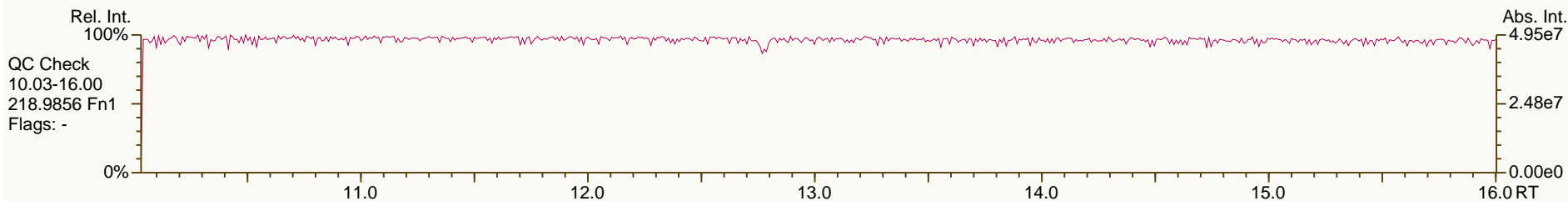
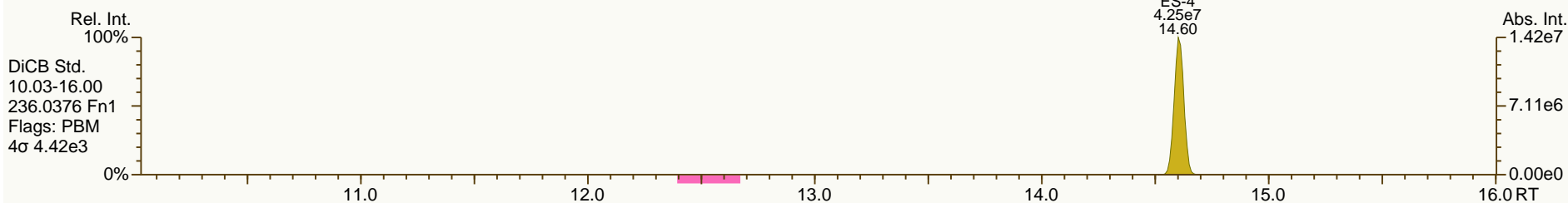
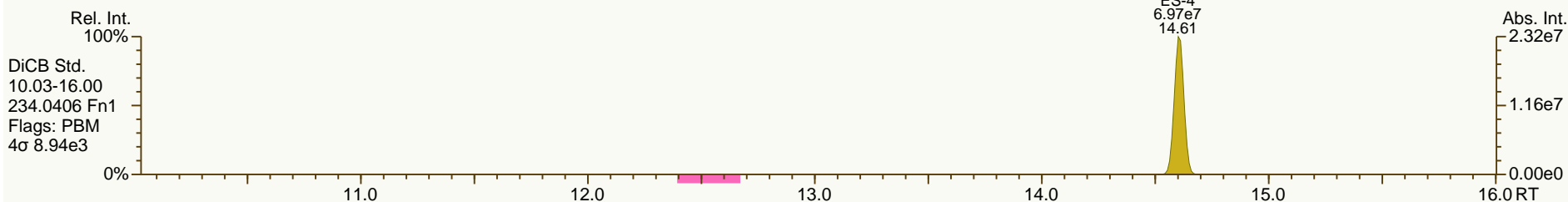
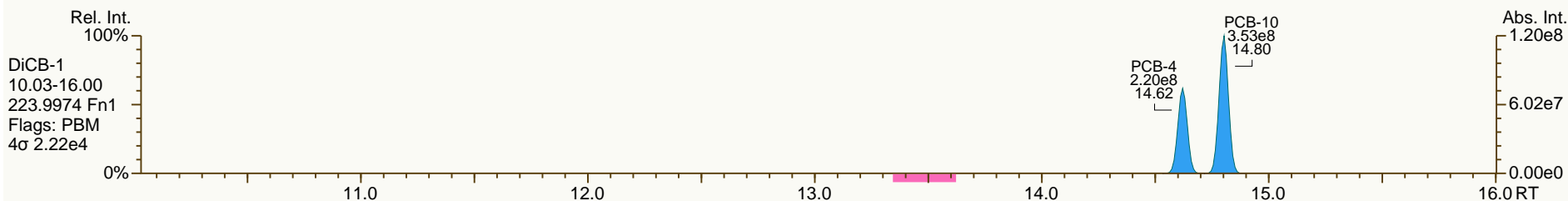
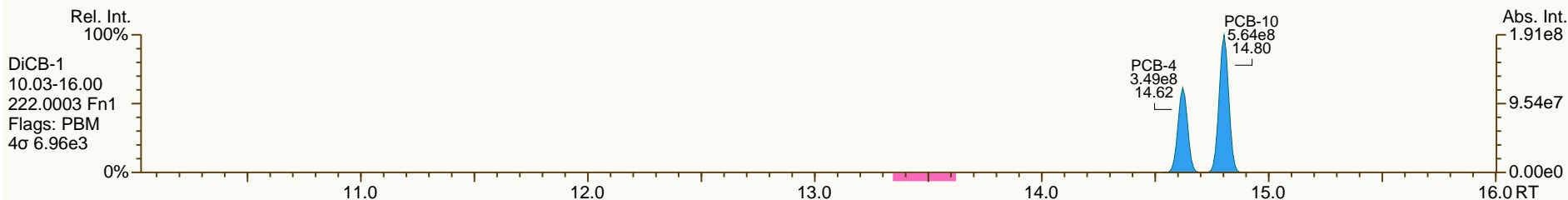
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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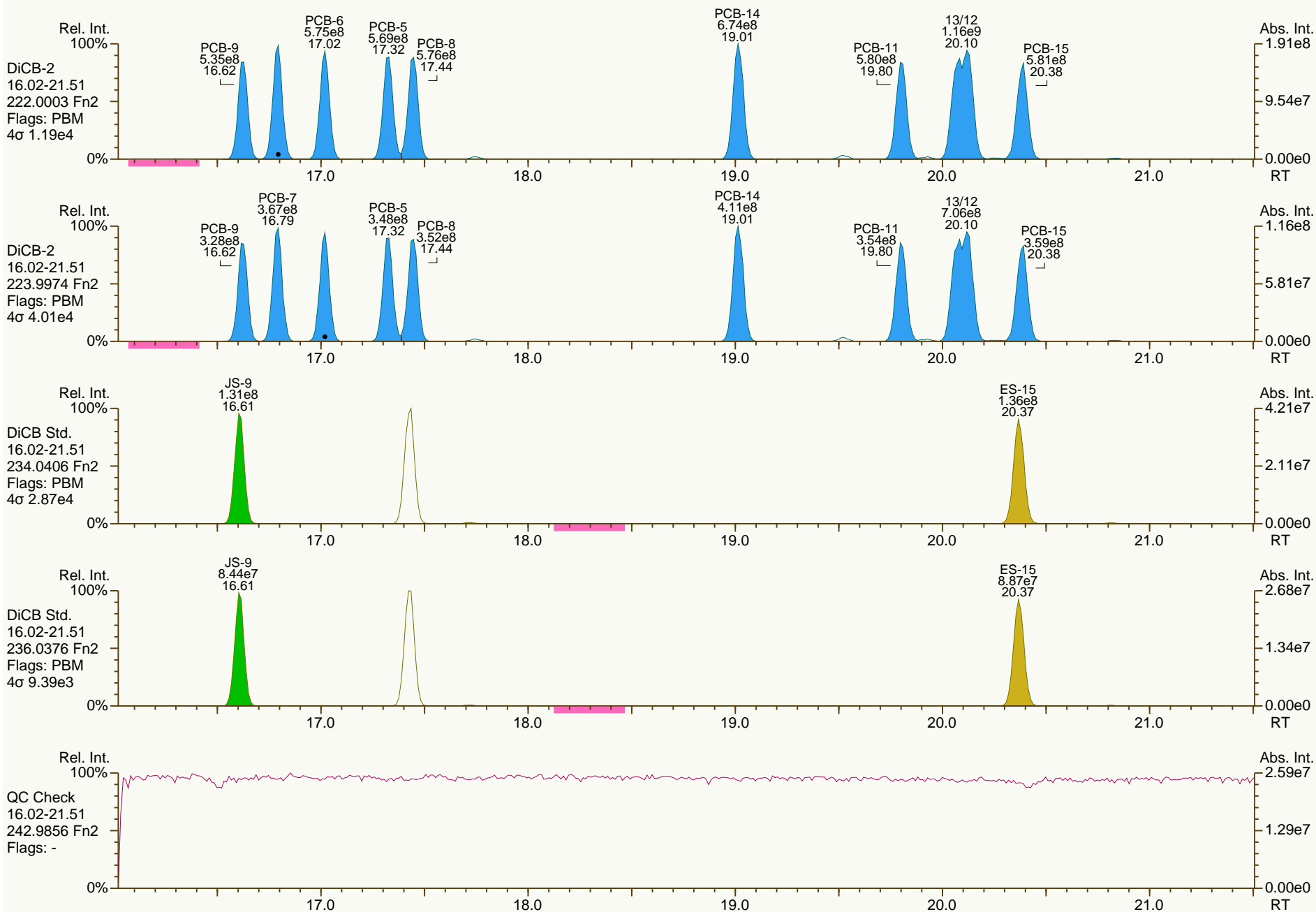
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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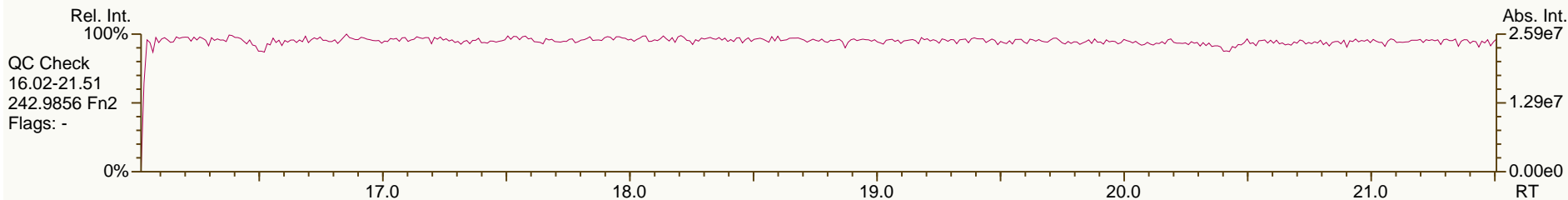
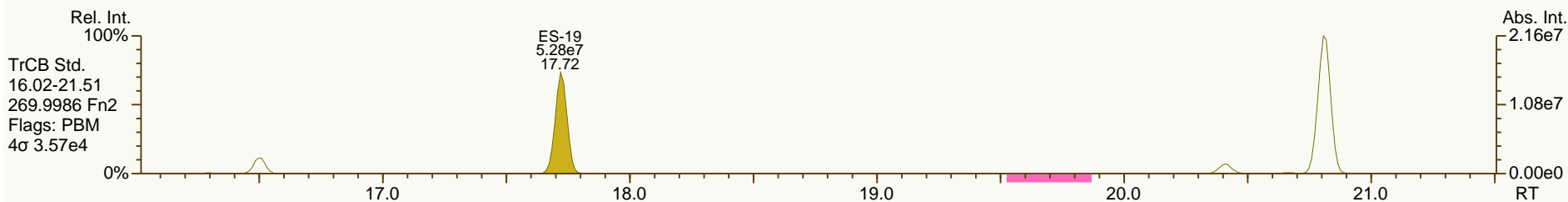
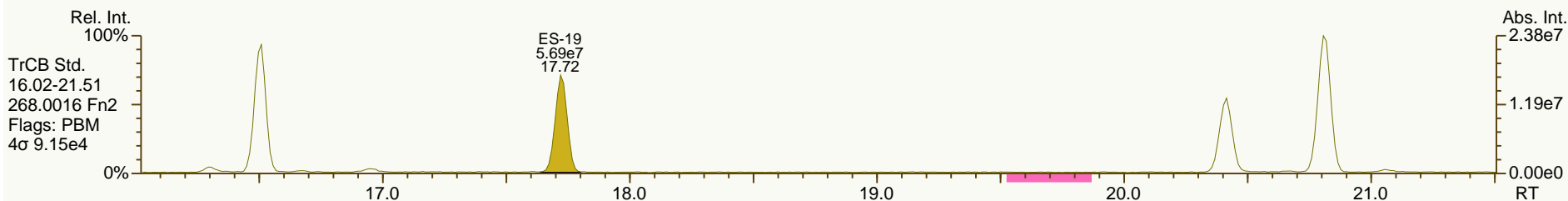
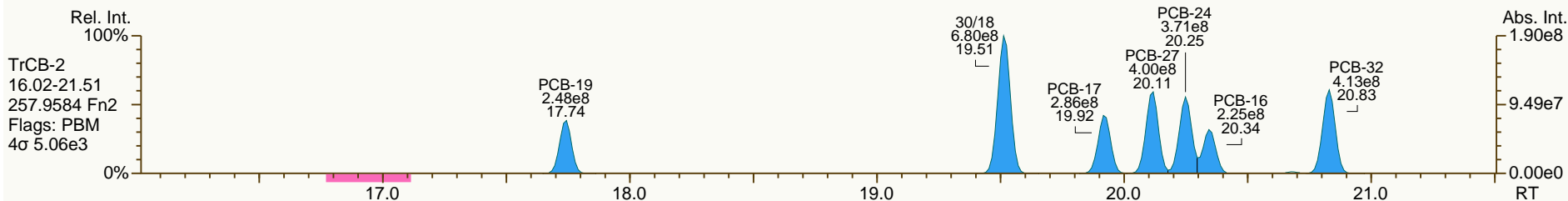
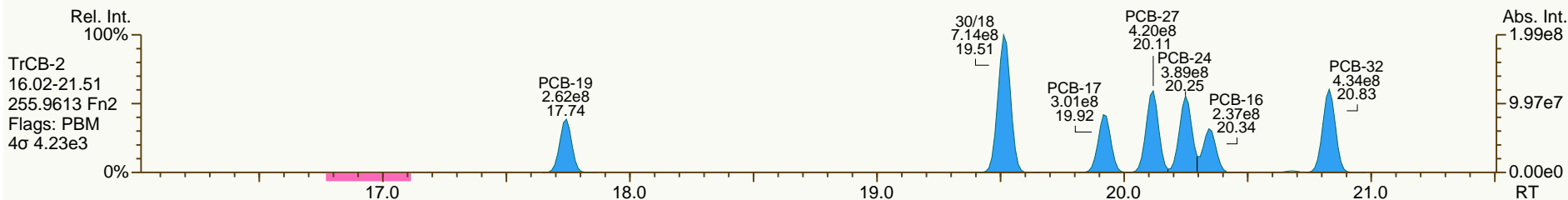
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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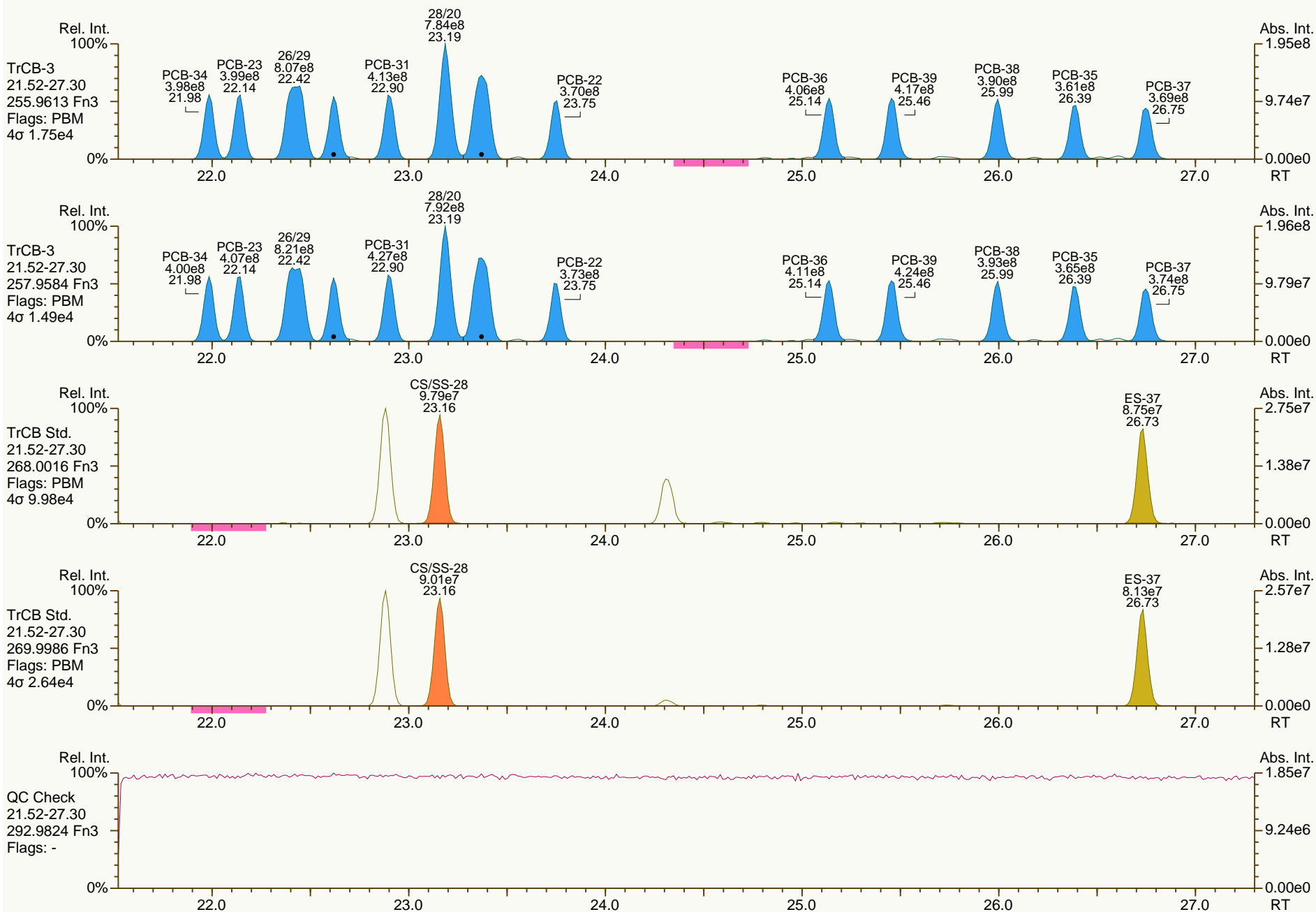
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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SGS-AP ID: CS4\_131220\_PCB\_XA  
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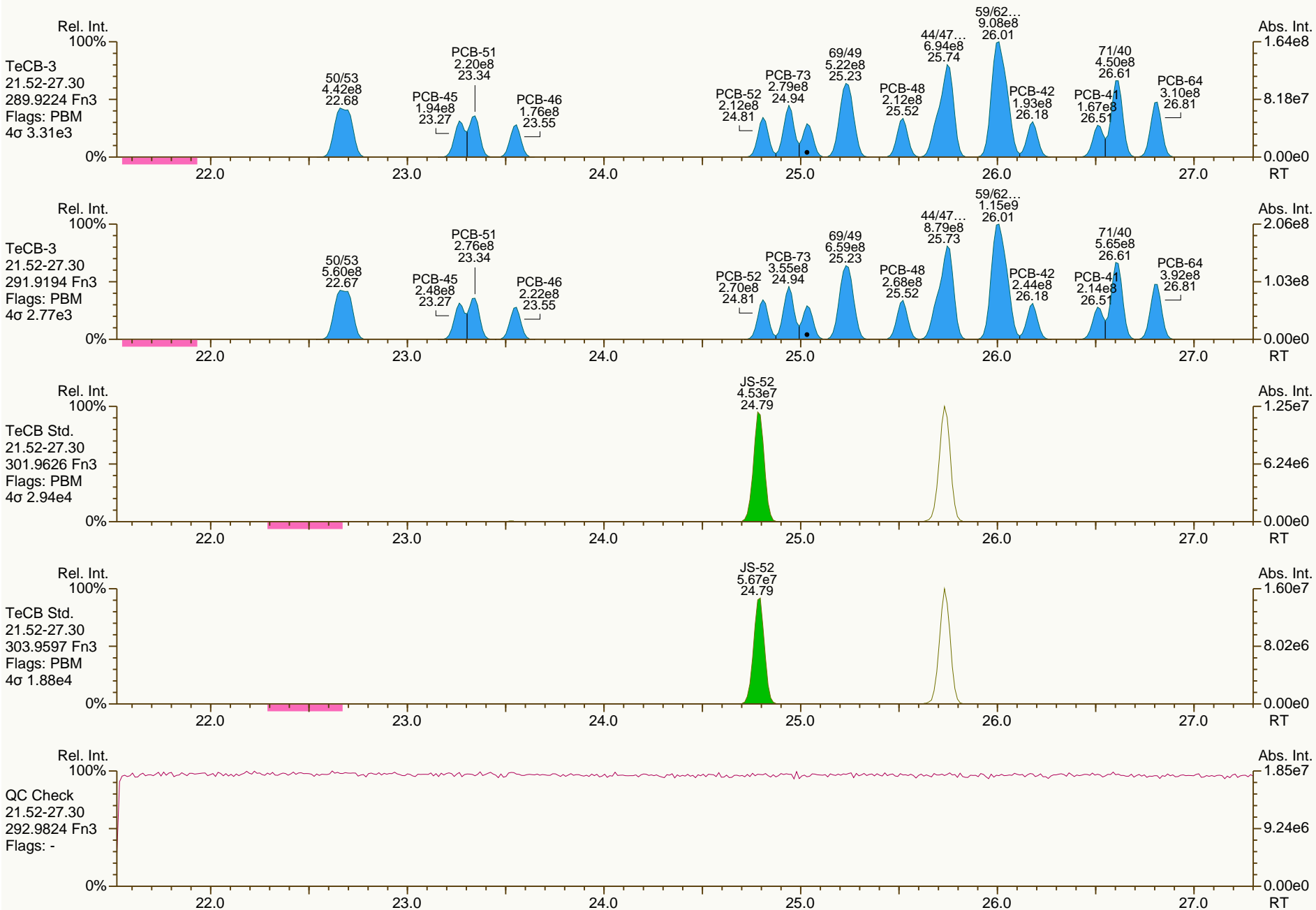
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Sample ID: SIL 13-79-2  
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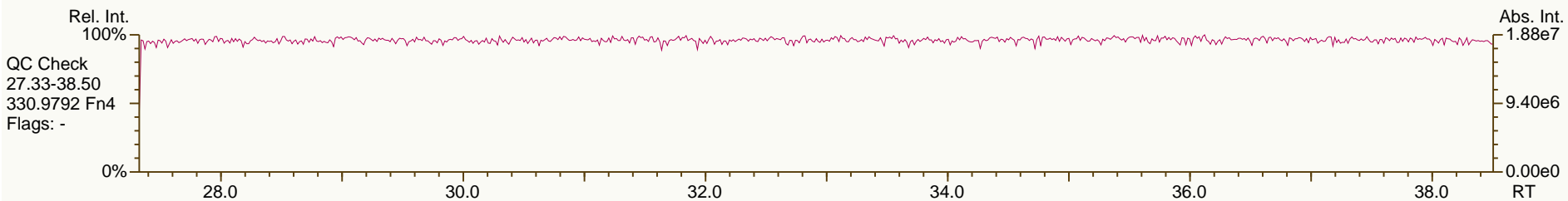
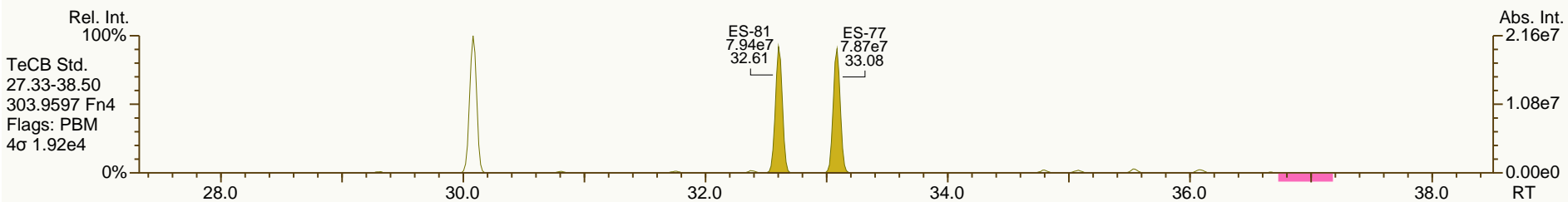
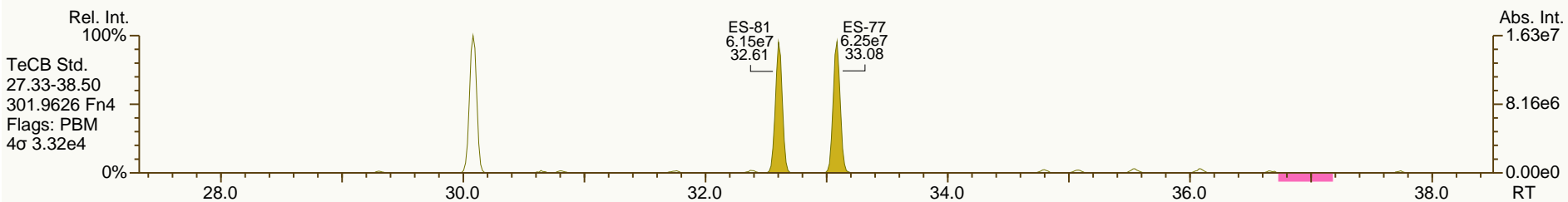
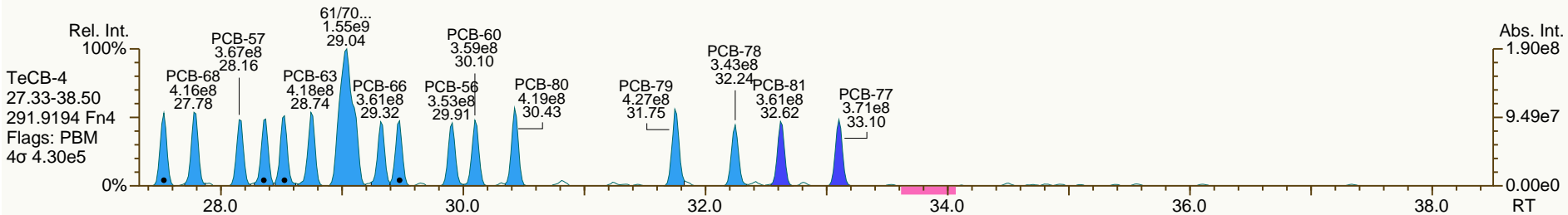
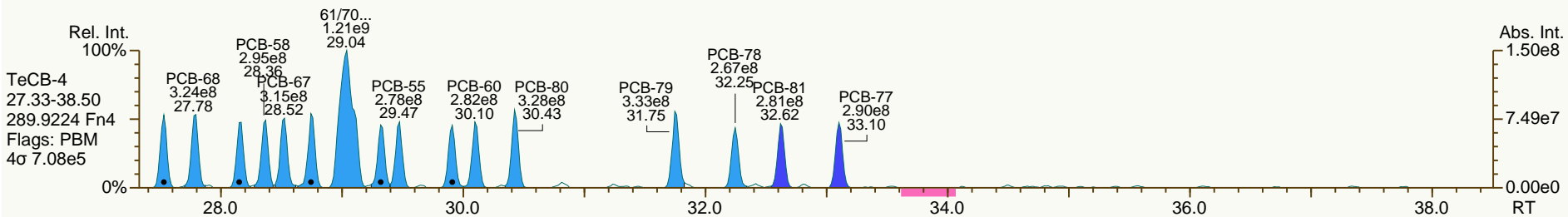




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 Instr: AutoSpec-Premier MM7

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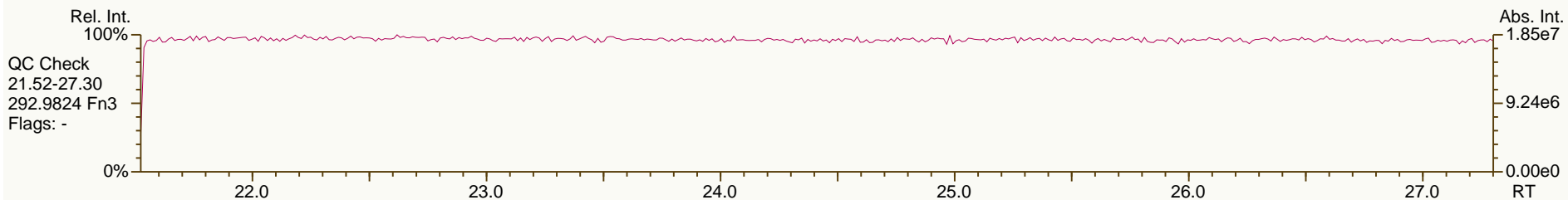
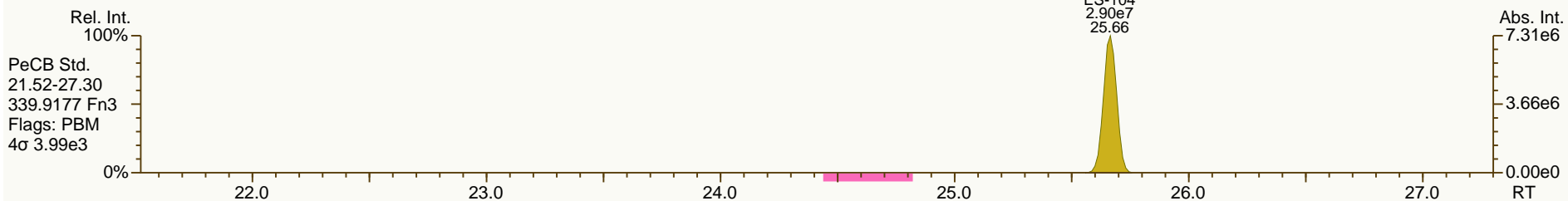
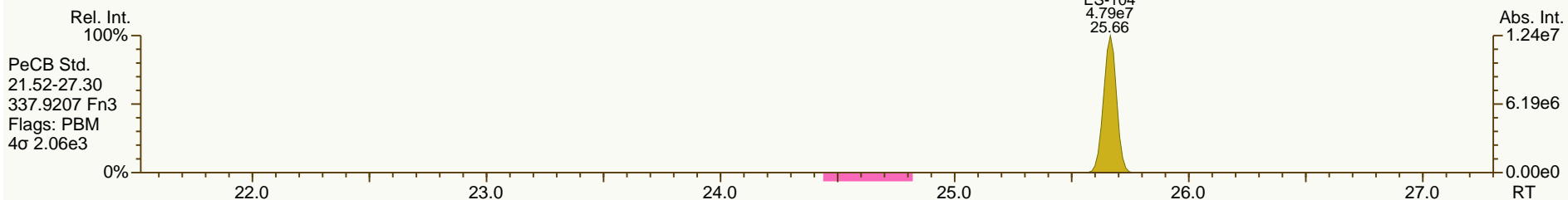
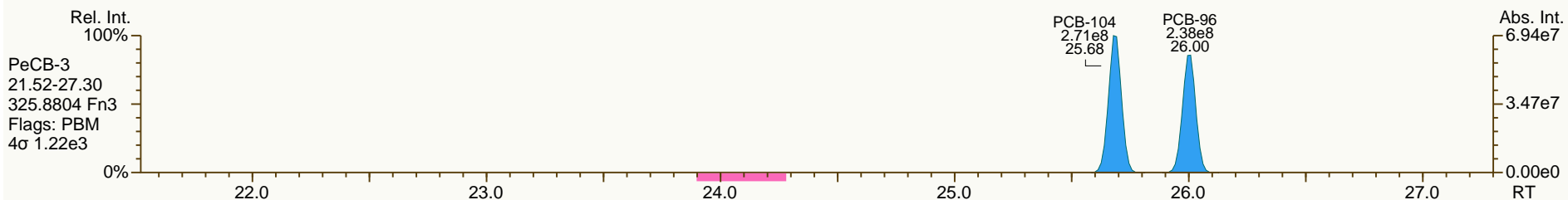
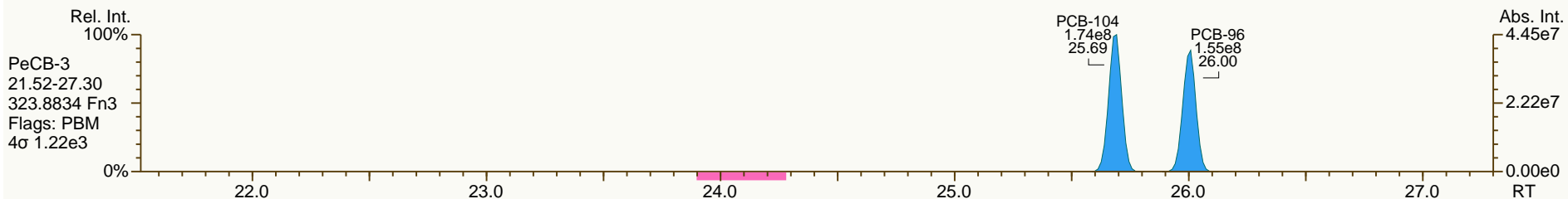
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Sample ID: SIL 13-79-2  
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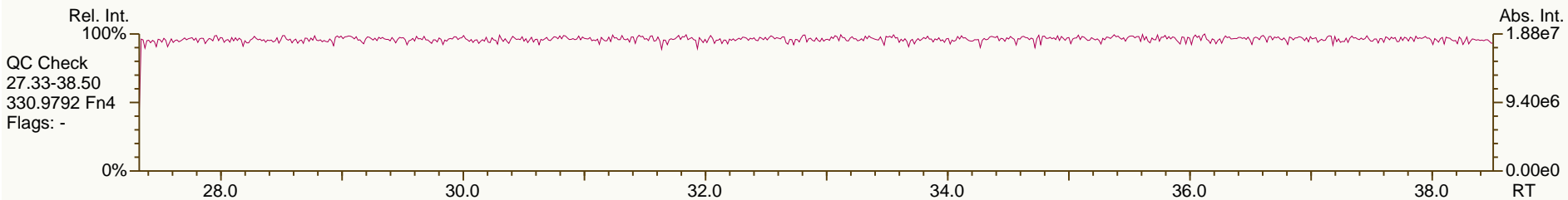
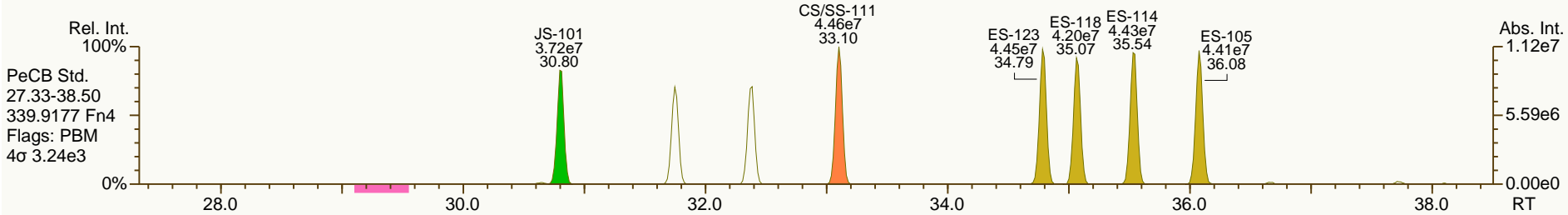
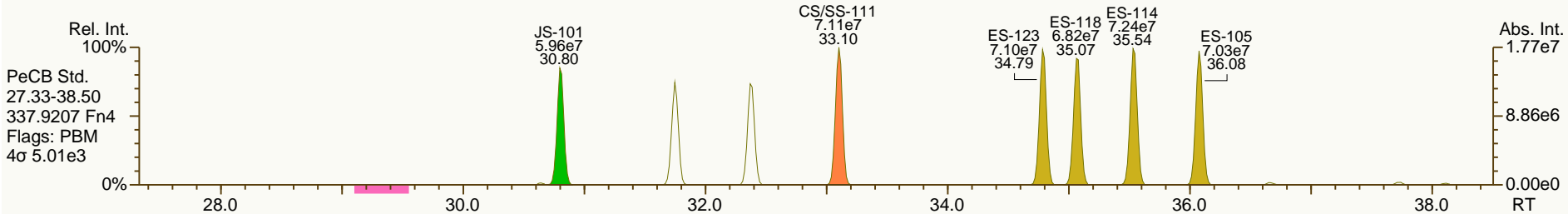
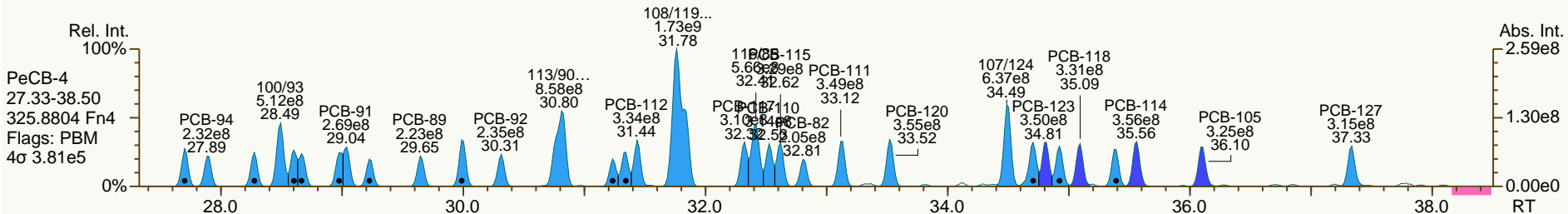
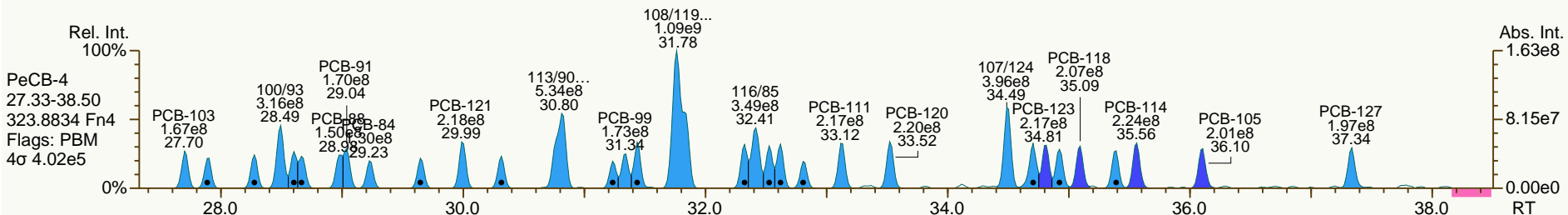
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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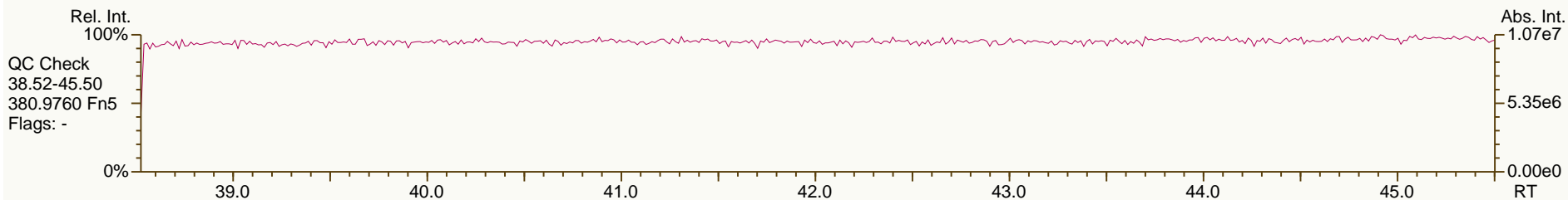
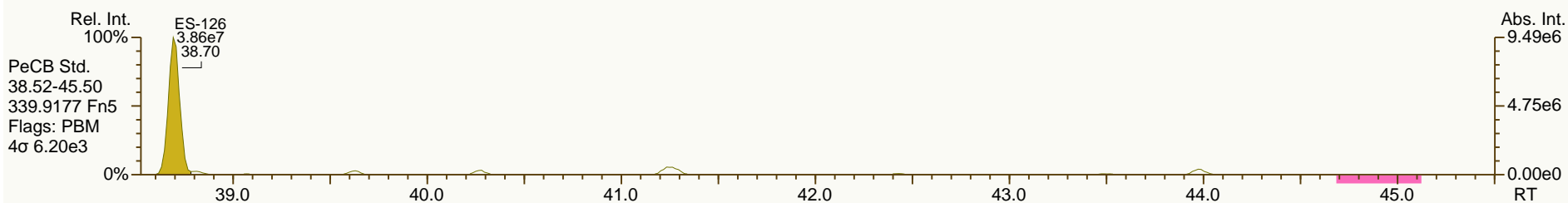
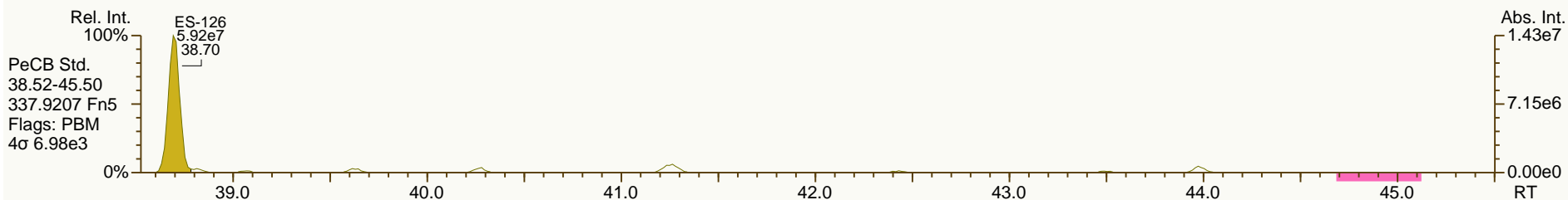
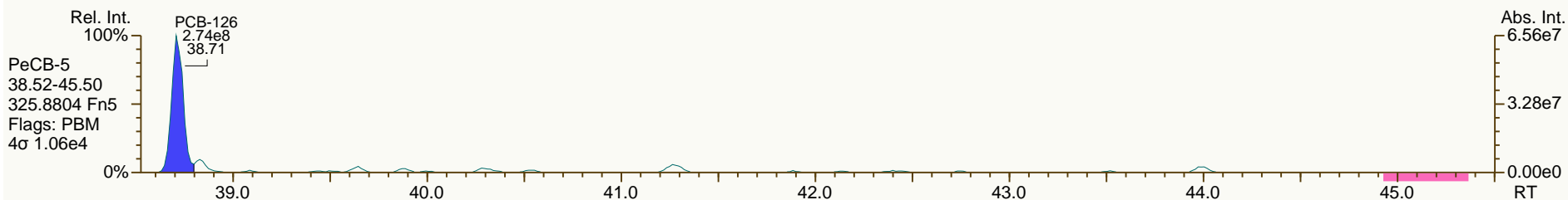
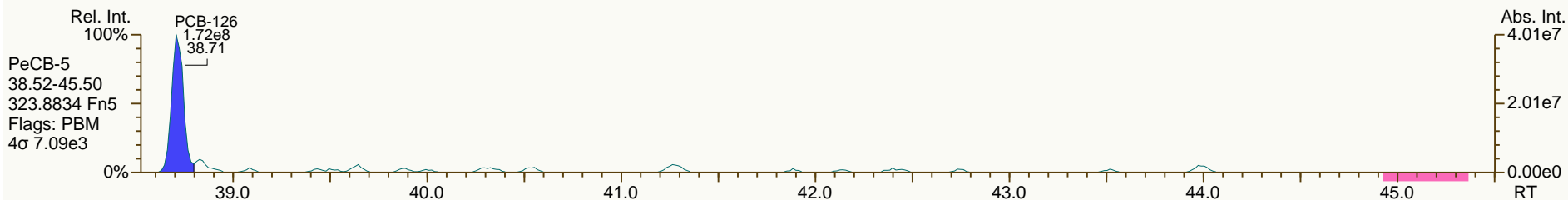
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

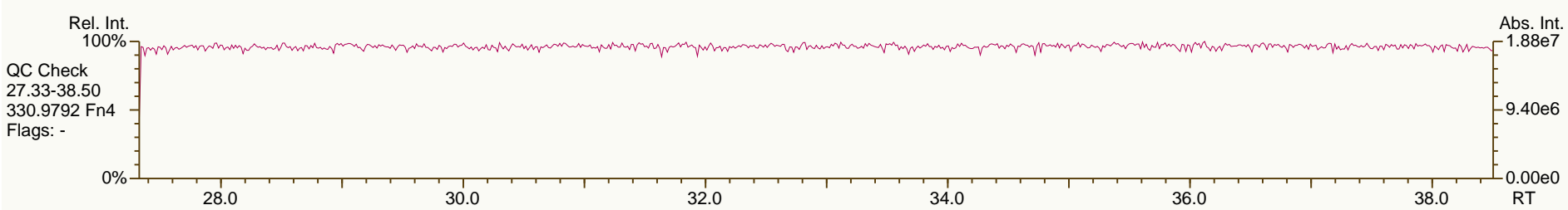
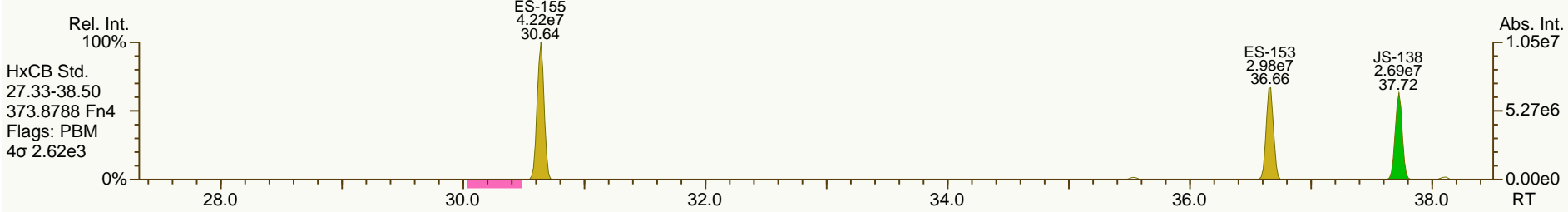
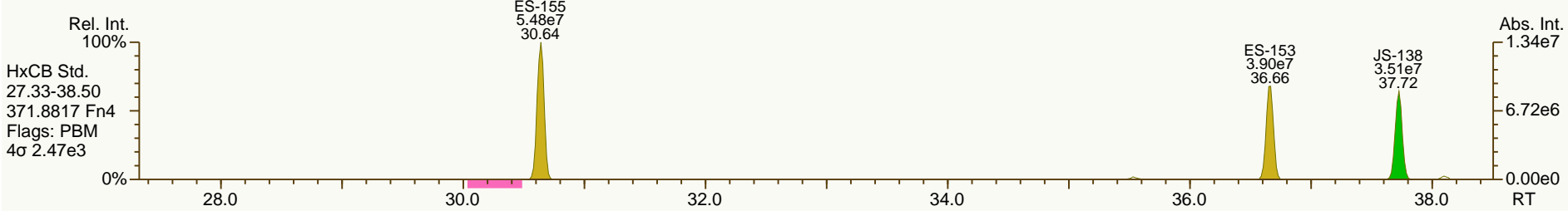
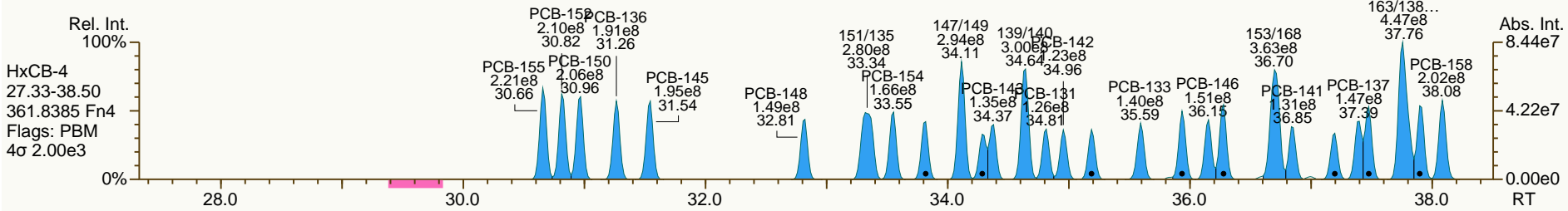
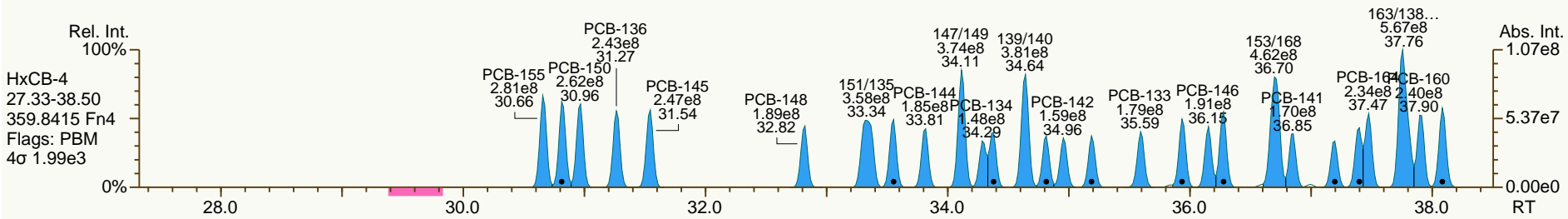
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

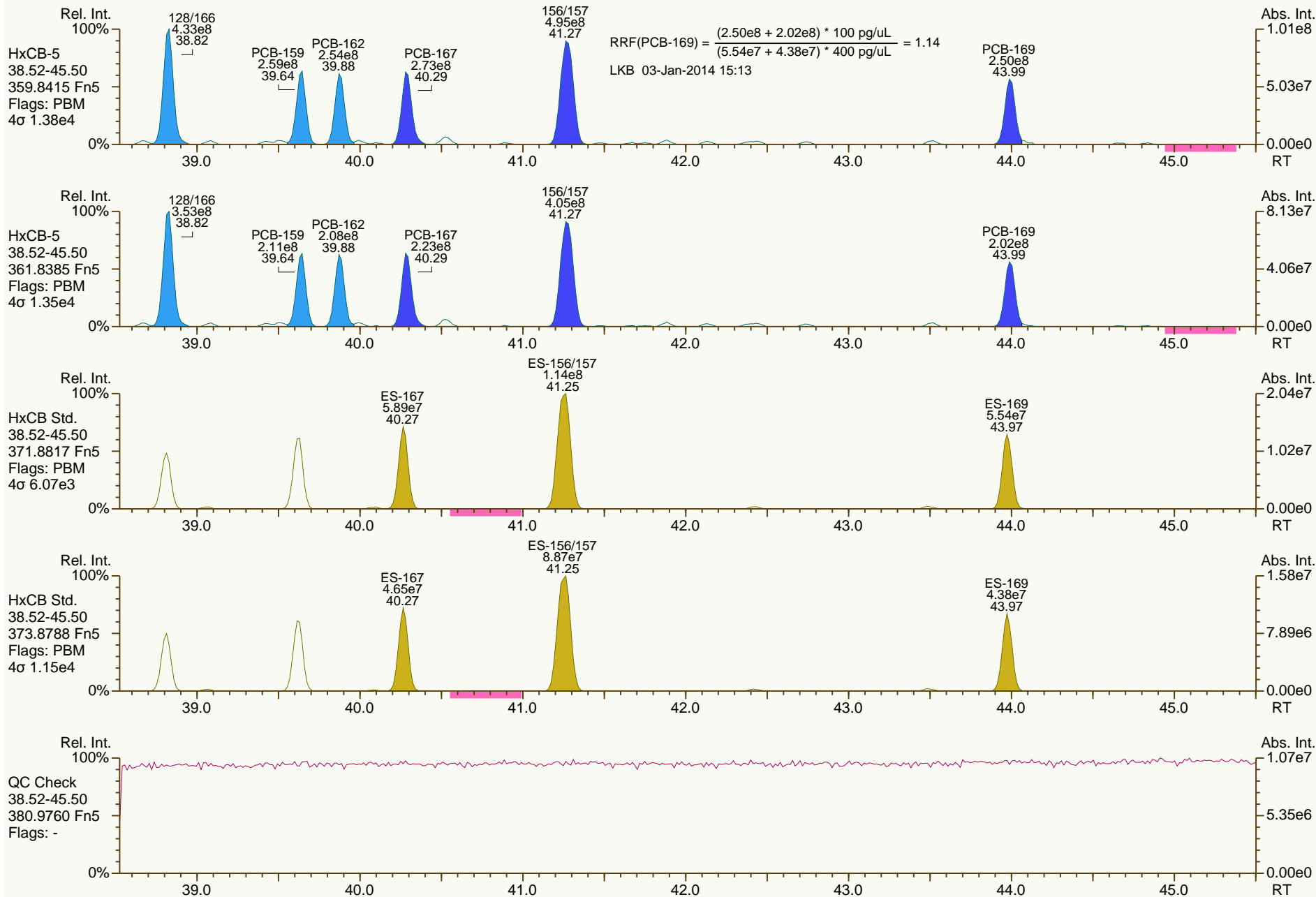
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SGS-AP ID: CS4\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-2  
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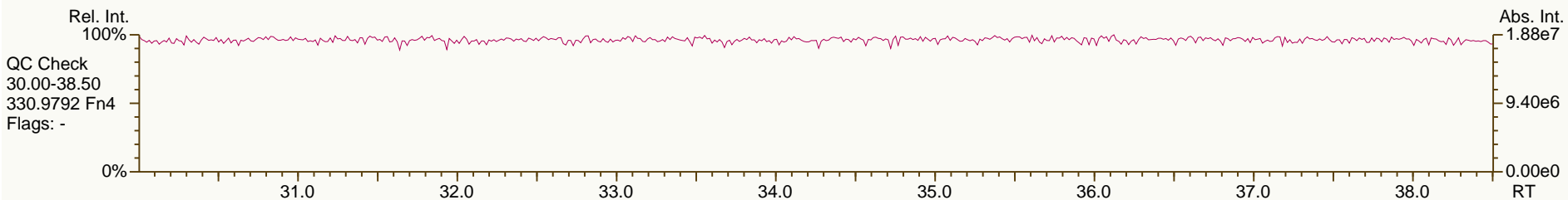
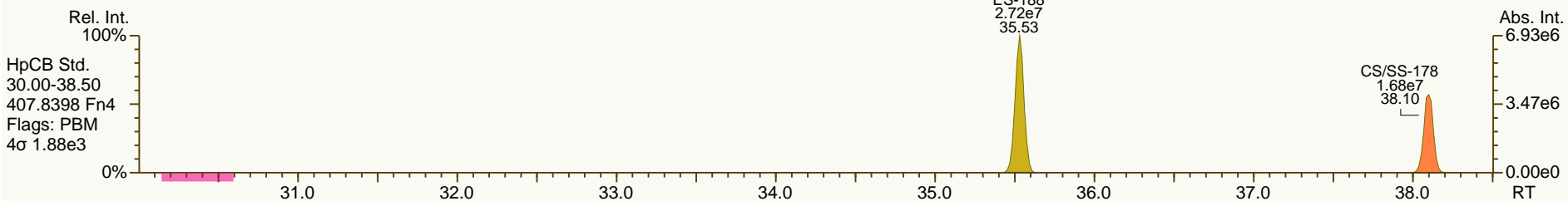
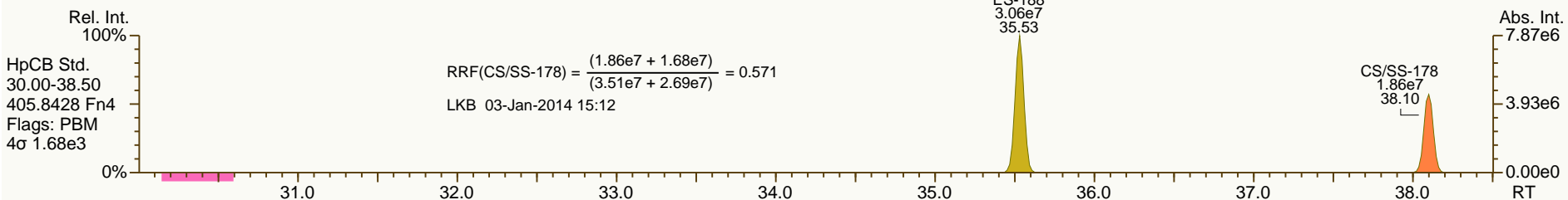
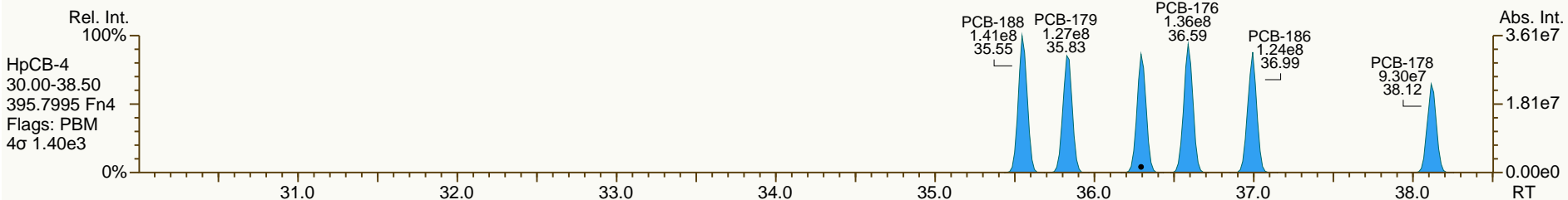
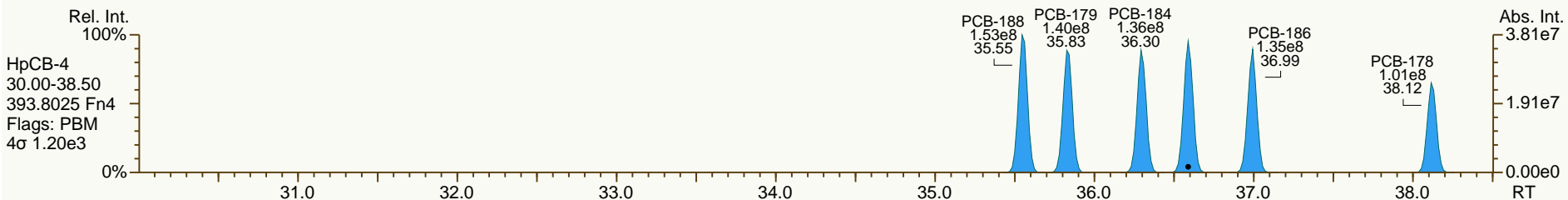
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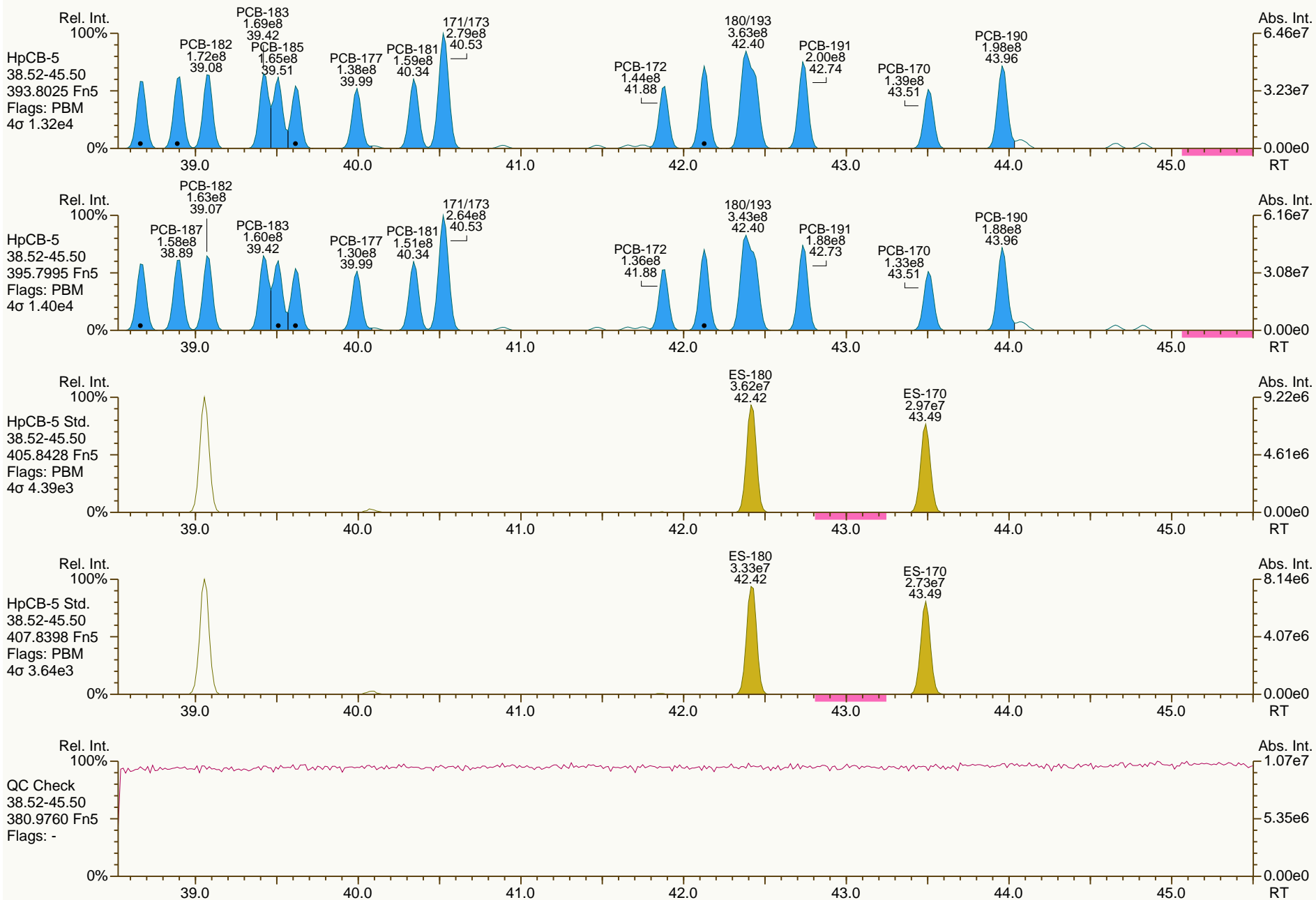
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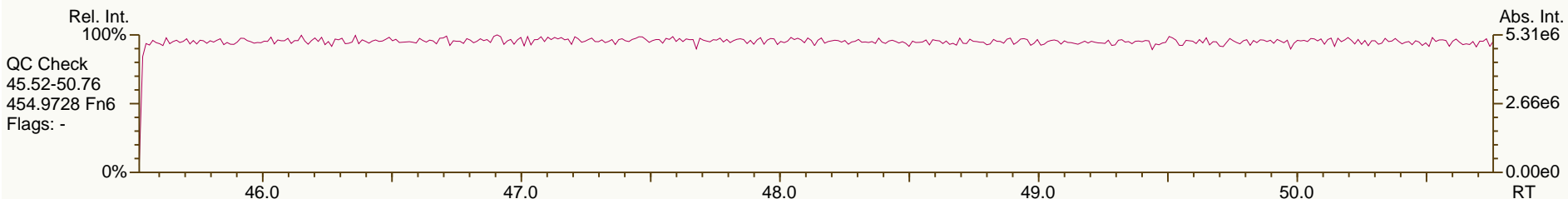
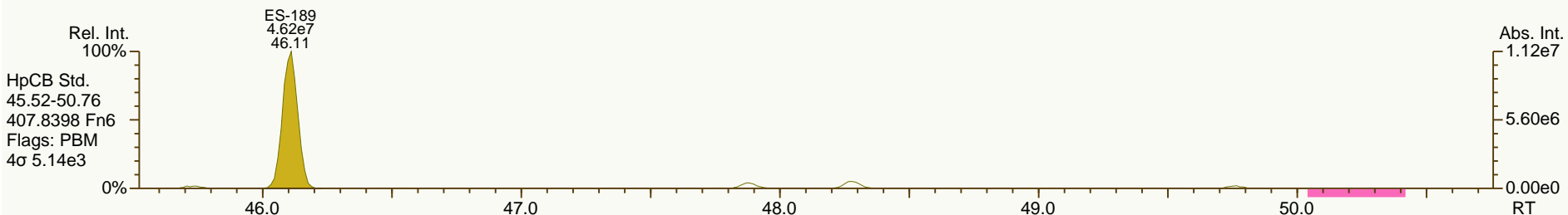
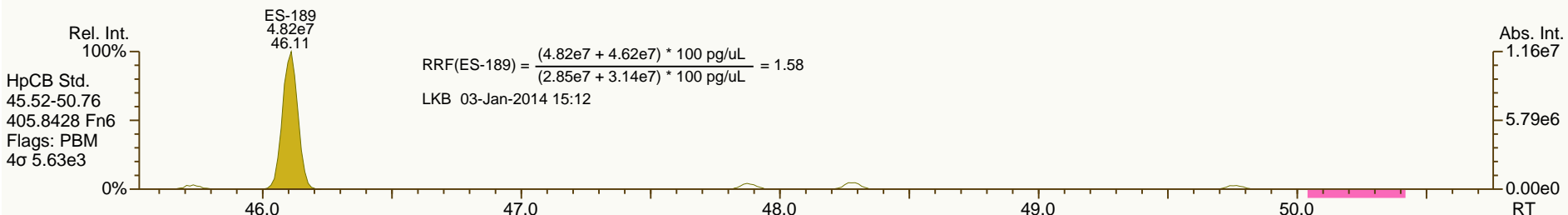
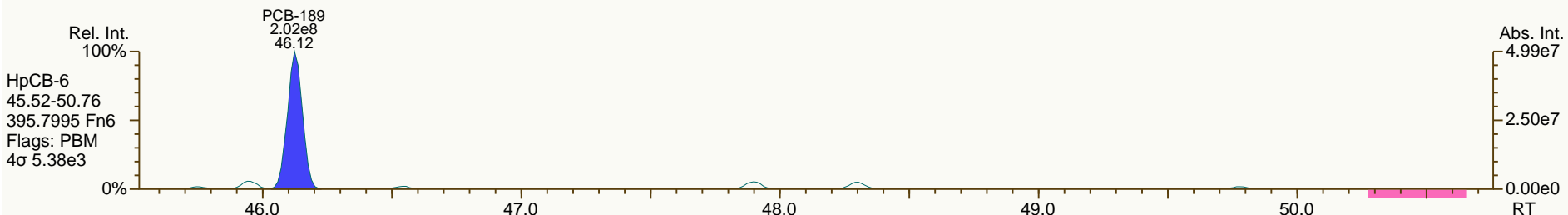
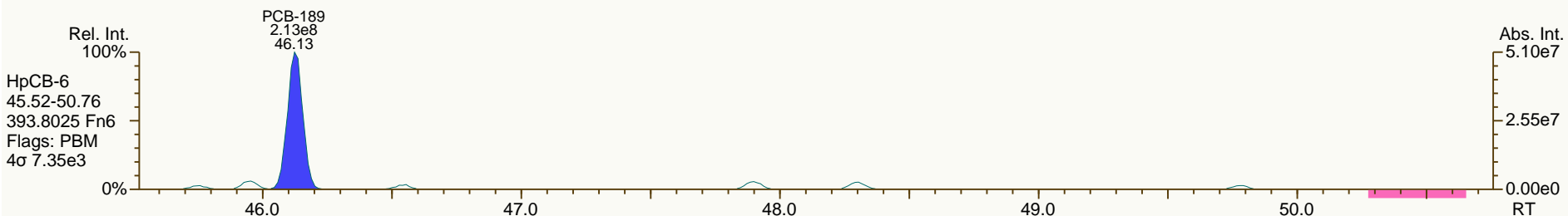




SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

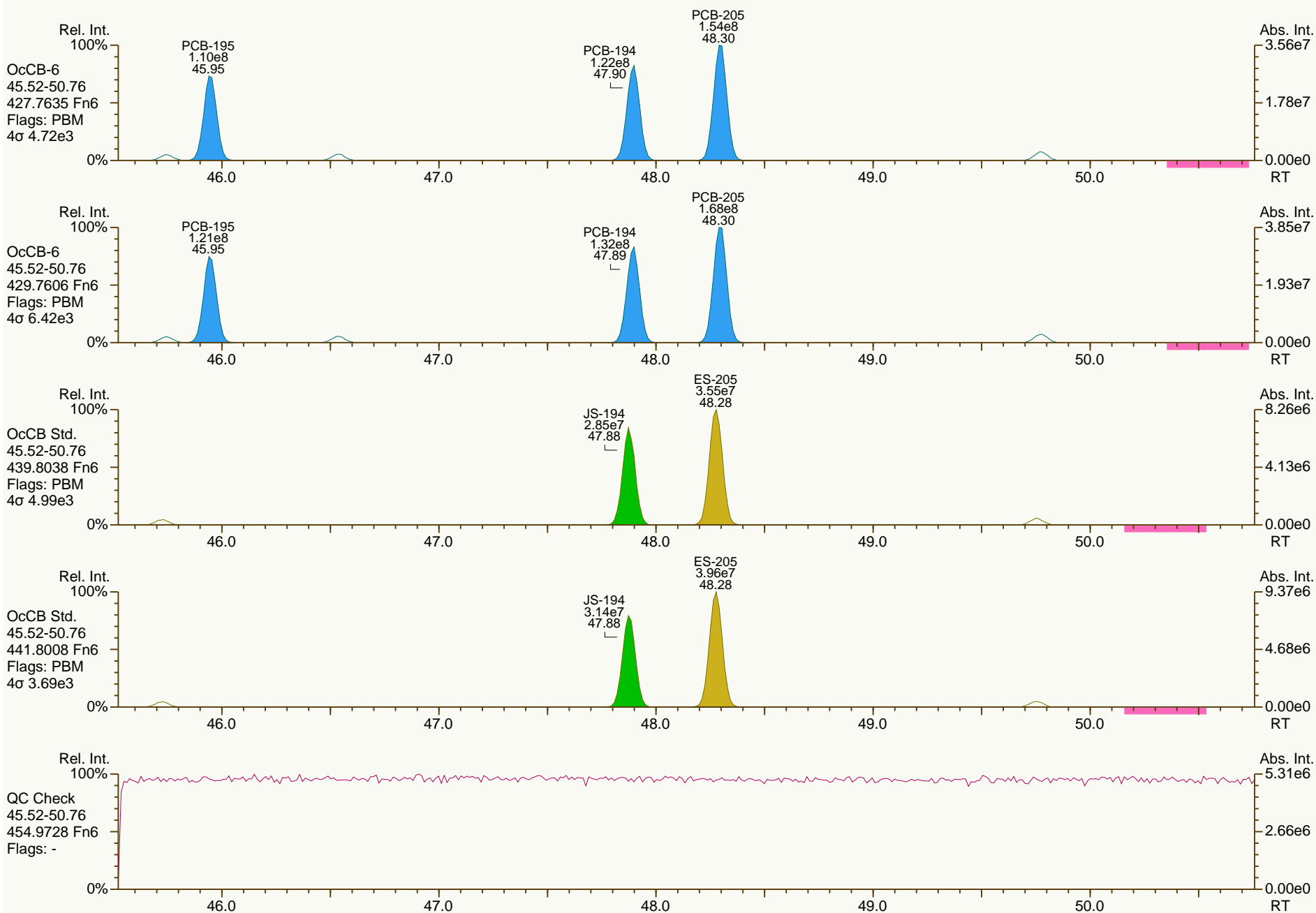
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

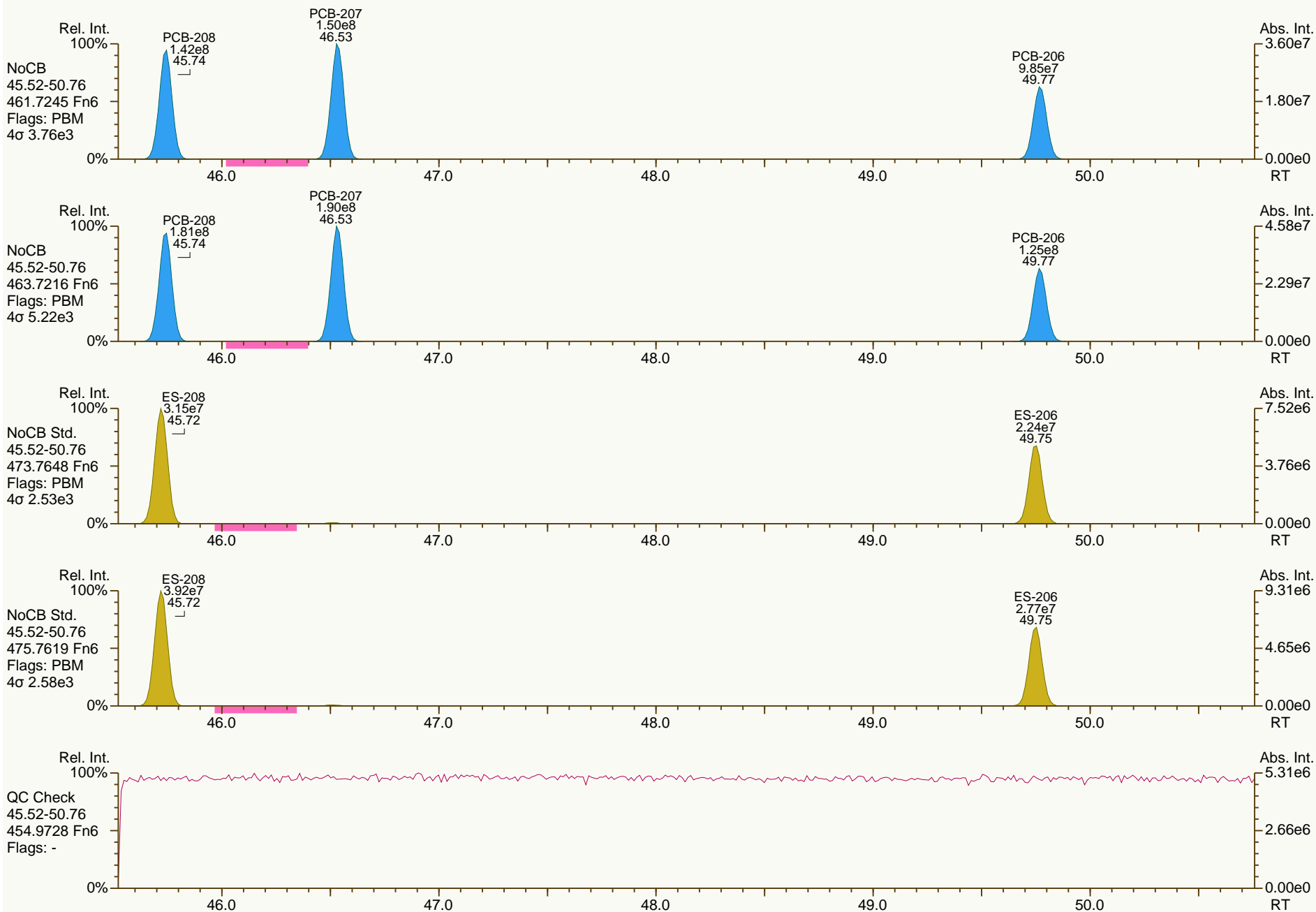
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

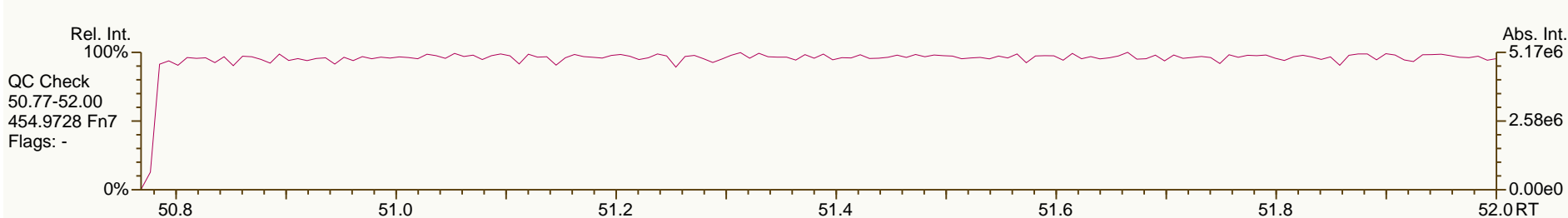
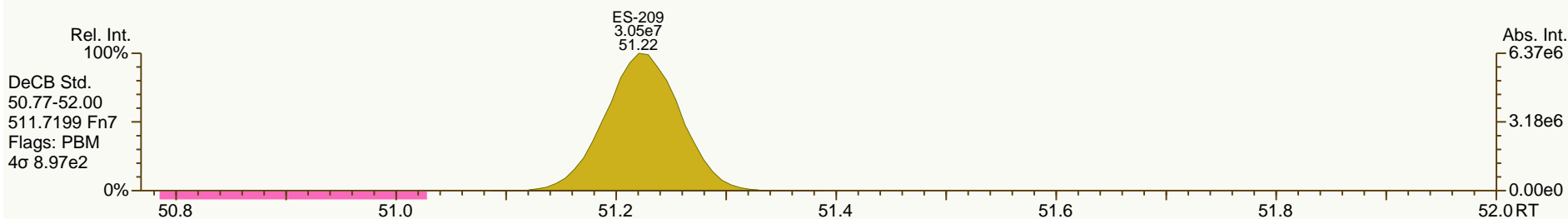
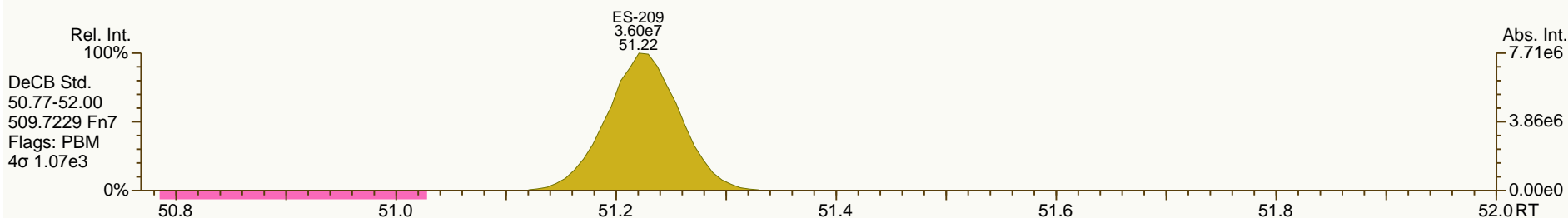
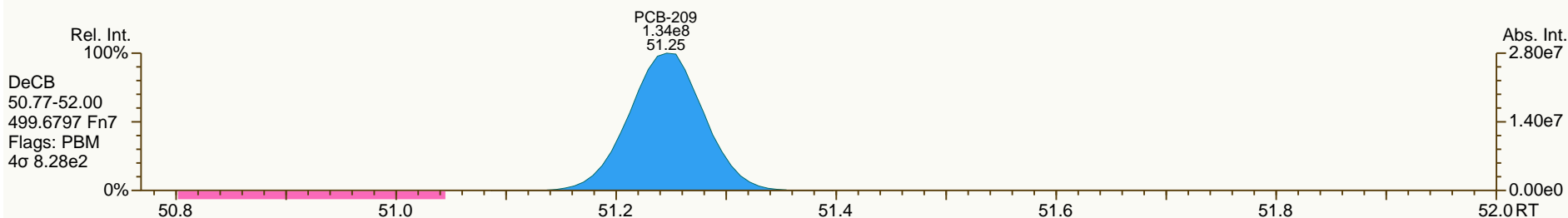
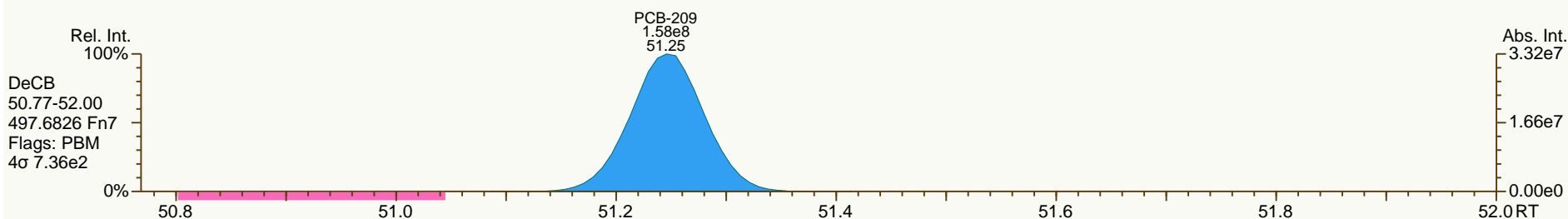
Acq: 20-Dec-2013 18:59:38  
User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
User: LKB Datafile: 131220X06



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	3.92E+09	0.79 Y	1.15	1.22	6.1%	
PCB-81 344'5'-TeCB	32.63	3.81E+09	0.78 Y	1.12	1.17	4.4%	
PCB-105 233'44'-PeCB	36.10	3.11E+09	0.62 Y	1.11	1.18	5.9%	
PCB-114 2344'5'-PeCB	35.56	3.45E+09	0.63 Y	1.20	1.29	6.9%	
PCB-118 23'44'5'-PeCB	35.09	3.20E+09	0.63 Y	1.19	1.25	4.7%	
PCB-123 23'44'5'-PeCB	34.82	3.32E+09	0.62 Y	1.21	1.25	3.0%	
PCB-126 33'44'5'-PeCB	38.72	2.76E+09	0.63 Y	1.11	1.21	9.8%	
PCB-156/157 ...-HxCB	41.27	5.55E+09	1.23 Y	1.10	1.17	6.3%	
PCB-167 23'44'55'-HxCB	40.29	3.01E+09	1.22 Y	1.16	1.23	5.8%	
PCB-169 33'44'55'-HxCB	43.99	2.75E+09	1.24 Y	1.12	1.17	4.3%	
PCB-189 233'44'55'-HpCB	46.12	2.52E+09	1.05 Y	1.07	1.16	7.9%	
PCB-209 DeCB	51.24	1.71E+09	1.18 Y	1.11	1.15	3.3%	
ES PCB-1	12.03	2.62E+08	3.21 Y	1.19	1.13	-5.6%	
ES PCB-3	14.35	2.47E+08	3.30 Y	1.09	1.06	-2.3%	
ES PCB-4	14.61	1.23E+08	1.63 Y	0.52	0.53	0.9%	
ES PCB-15	20.38	2.45E+08	1.53 Y	1.04	1.05	1.3%	
ES PCB-19	17.73	1.20E+08	1.07 Y	0.51	0.52	2.2%	
ES PCB-37	26.74	1.94E+08	1.09 Y	1.66	1.69	1.6%	
ES PCB-54	20.67	9.79E+07	0.83 Y	0.86	0.85	-0.9%	
ES PCB-77	33.09	1.61E+08	0.79 Y	1.38	1.40	1.2%	
ES PCB-81	32.61	1.63E+08	0.79 Y	1.37	1.42	4.0%	
ES PCB-104	25.67	8.86E+07	1.66 Y	0.80	0.78	-2.5%	
ES PCB-105	36.08	1.32E+08	1.58 Y	1.20	1.17	-2.9%	
ES PCB-114	35.54	1.34E+08	1.60 Y	1.22	1.19	-2.5%	
ES PCB-118	35.07	1.28E+08	1.60 Y	1.16	1.14	-1.9%	
ES PCB-123	34.79	1.33E+08	1.59 Y	1.19	1.18	-0.8%	
ES PCB-126	38.70	1.14E+08	1.54 Y	1.03	1.01	-2.2%	
ES PCB-153	36.66	8.16E+07	1.32 Y	1.11	1.10	-1.2%	
ES PCB-155	30.64	1.13E+08	1.29 Y	1.59	1.52	-4.1%	
ES PCB-156/157	41.25	2.38E+08	1.27 Y	1.60	1.61	0.4%	
ES PCB-167	40.27	1.22E+08	1.26 Y	1.67	1.65	-1.0%	
ES PCB-169	43.97	1.17E+08	1.27 Y	1.56	1.58	1.8%	
ES PCB-170	43.49	6.70E+07	1.09 Y	0.95	0.97	2.9%	
ES PCB-180	42.42	8.32E+07	1.09 Y	1.14	1.21	6.3%	
ES PCB-188	35.53	6.88E+07	1.10 Y	0.94	0.93	-1.1%	
ES PCB-189	46.11	1.09E+08	1.01 Y	1.58	1.58	-0.3%	
ES PCB-202	40.08	7.17E+07	0.94 Y	0.97	0.97	-0.2%	
ES PCB-205	48.27	8.57E+07	0.89 Y	1.24	1.25	0.1%	
ES PCB-206	49.75	5.62E+07	0.81 Y	0.83	0.82	-1.6%	
ES PCB-208	45.72	8.18E+07	0.80 Y	1.17	1.19	1.2%	
ES PCB-209	51.22	7.42E+07	1.20 Y	1.11	1.08	-2.8%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	2.10E+08	1.08 Y	1.11	1.09	-2.3%	
SS PCB-111	33.10	1.37E+08	1.60 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	4.42E+07	1.12 Y	0.62	0.64	3.8%	
CS PCB-28	23.16	2.10E+08	1.08 Y	1.85	1.83	-0.7%	
CS PCB-111	33.10	1.37E+08	1.60 Y	1.22	1.21	-0.7%	
CS PCB-178	38.10	4.42E+07	1.12 Y	0.58	0.60	2.7%	
JS PCB-9	16.61	2.33E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.15E+08	0.81 Y	-	-	-	
JS PCB-101	30.81	1.13E+08	1.60 Y	-	-	-	
JS PCB-138	37.73	7.41E+07	1.32 Y	-	-	-	
JS PCB-194	47.87	6.88E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-2 3-MoCB	14.18	5.06E+09	2.92 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-10 26'-DiCB	14.81	5.06E+09	1.58 Y	1.98	2.06	4.1%	
PCB-9 25'-DiCB	16.63	4.77E+09	1.62 Y	0.95	0.97	2.9%	
PCB-7 24'-DiCB	16.80	5.47E+09	1.65 Y	1.05	1.11	6.5%	
PCB-6 23'-DiCB	17.02	5.14E+09	1.63 Y	1.00	1.05	5.3%	
PCB-5 23'-DiCB	17.33	5.14E+09	1.64 Y	1.00	1.05	4.7%	
PCB-8 24'-DiCB	17.45	5.25E+09	1.64 Y	1.03	1.07	3.7%	
PCB-14 35'-DiCB	19.02	6.12E+09	1.60 Y	1.18	1.25	5.8%	
PCB-11 33'-DiCB	19.81	5.26E+09	1.63 Y	1.01	1.07	6.2%	
PCB-13/12 34'/34'-DiCB	20.10	1.05E+10	1.63 Y	0.99	1.07	8.0%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-30/18 246/22'5'-TrCB	19.52	7.69E+09	1.04 Y	1.54	1.60	4.0%	
PCB-17 22'4'-TrCB	19.93	3.33E+09	1.05 Y	1.31	1.38	6.0%	
PCB-27 23'6'-TrCB	20.12	4.61E+09	1.05 Y	1.82	1.92	5.5%	
PCB-24 236'-TrCB	20.26	4.39E+09	1.04 Y	1.72	1.83	5.9%	
PCB-16 22'3'-TrCB	20.35	2.55E+09	1.05 Y	1.01	1.06	5.3%	
PCB-32 24'6'-TrCB	20.84	4.79E+09	1.05 Y	1.92	1.99	3.8%	
PCB-34 23'5'-TrCB	21.99	4.49E+09	1.00 Y	1.14	1.16	2.3%	
PCB-23 235'-TrCB	22.14	4.54E+09	0.98 Y	1.16	1.17	1.5%	
PCB-26/29 23'5'/245'-TrCB	22.43	9.34E+09	0.99 Y	1.17	1.21	3.0%	
PCB-25 23'4'-TrCB	22.63	4.59E+09	0.99 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.91	4.84E+09	0.99 Y	1.23	1.25	2.1%	
PCB-28/20 244'/233'-TrCB	23.20	9.02E+09	0.98 Y	1.13	1.17	2.9%	
PCB-21/33 234'/23'4'-TrCB	23.38	9.35E+09	0.97 Y	1.17	1.21	2.9%	
PCB-22 234'-TrCB	23.75	4.32E+09	0.98 Y	1.08	1.12	3.4%	
PCB-36 33'5'-TrCB	25.14	4.81E+09	0.99 Y	1.17	1.24	6.2%	
PCB-39 34'5'-TrCB	25.46	4.93E+09	0.98 Y	1.21	1.27	5.1%	
PCB-38 345'-TrCB	26.00	4.32E+09	1.00 Y	1.10	1.11	0.9%	
PCB-35 33'4'-TrCB	26.39	4.24E+09	0.99 Y	1.04	1.10	5.3%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	5.80E+09	0.79 Y	0.88	0.89	1.5%	
PCB-45 22'36'-TeCB	23.28	2.69E+09	0.79 Y	0.77	0.83	7.6%	
PCB-51 22'46'-TeCB	23.35	2.73E+09	0.80 Y	0.86	0.84	-2.6%	
PCB-46 22'36'-TeCB	23.56	2.31E+09	0.79 Y	0.70	0.71	1.2%	
PCB-52 22'55'-TeCB	24.82	2.76E+09	0.79 Y	0.84	0.85	0.5%	
PCB-73 23'5'6'-TeCB	24.95	3.82E+09	0.79 Y	1.11	1.17	5.5%	
PCB-43 22'35'-TeCB	25.05	2.28E+09	0.79 Y	0.71	0.70	-1.5%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	6.91E+09	0.79 Y	1.02	1.06	3.6%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7				
Acquired:	20-DEC-2013 20:49					
Datafile:	131220X08					
Name	RT	Response	RA	ICAL	RRF	Dev'n
PCB-48 22'45'-TeCB	25.52	2.83E+09	0.79 Y	0.84	0.87	3.4%
PCB-44/47/65 ...-TeCB	25.74	9.10E+09	0.79 Y	0.90	0.93	3.0%
PCB-59/62/75 ...-TeCB	26.02	1.15E+10	0.81 Y	1.17	1.18	1.4%
PCB-42 22'34'-TeCB	26.18	2.53E+09	0.79 Y	0.76	0.78	1.9%
PCB-41 22'34'-TeCB	26.52	2.38E+09	0.78 Y	0.69	0.73	5.0%
PCB-71/40 23'4'6/22'33'-TeCB	26.61	5.79E+09	0.79 Y	0.86	0.89	3.5%
PCB-64 234'6'-TeCB	26.81	4.17E+09	0.79 Y	1.22	1.28	4.8%
PCB-72 23'55'-TeCB	27.53	4.01E+09	0.79 Y	1.21	1.23	1.8%
PCB-68 23'45'-TeCB	27.79	4.24E+09	0.78 Y	1.28	1.30	1.9%
PCB-57 233'5'-TeCB	28.16	3.81E+09	0.79 Y	1.16	1.17	0.4%
PCB-58 233'5'-TeCB	28.37	4.00E+09	0.79 Y	1.18	1.23	4.1%
PCB-67 23'45'-TeCB	28.53	4.17E+09	0.79 Y	1.26	1.28	1.6%
PCB-63 234'5'-TeCB	28.75	4.37E+09	0.79 Y	1.30	1.34	3.2%
PCB-61/70/74/76 ...-TeCB	29.05	1.58E+10	0.79 Y	1.20	1.21	1.4%
PCB-66 23'44'-TeCB	29.33	3.68E+09	0.78 Y	1.10	1.13	2.4%
PCB-55 233'4'-TeCB	29.47	3.76E+09	0.79 Y	1.12	1.15	3.0%
PCB-56 233'4'-TeCB	29.91	3.68E+09	0.79 Y	1.11	1.13	1.6%
PCB-60 2344'-TeCB	30.10	3.79E+09	0.78 Y	1.14	1.16	2.6%
PCB-80 33'55'-TeCB	30.43	4.36E+09	0.79 Y	1.31	1.34	1.9%
PCB-79 33'45'-TeCB	31.76	4.29E+09	0.79 Y	1.31	1.32	0.8%
PCB-78 33'45'-TeCB	32.25	3.62E+09	0.79 Y	1.06	1.11	4.6%
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%
PCB-96 22'366'-PeCB	26.01	2.25E+09	0.65 Y	1.23	1.27	3.5%
PCB-103 22'45'6'-PeCB	27.71	2.54E+09	0.62 Y	0.93	0.95	2.6%
PCB-94 22'356'-PeCB	27.90	2.18E+09	0.63 Y	0.80	0.82	2.5%
PCB-95 22'35'6'-PeCB	28.28	2.36E+09	0.62 Y	0.87	0.89	2.4%
PCB-100/93 22'44'6/22'356'-PeCB	28.50	4.75E+09	0.62 Y	0.86	0.89	3.4%
PCB-102 22'456'-PeCB	28.61	2.73E+09	0.62 Y	0.97	1.02	5.8%
PCB-98 22'34'6'-PeCB	28.68	2.05E+09	0.64 Y	0.76	0.77	1.6%
PCB-88 22'346'-PeCB	28.98	2.08E+09	0.61 Y	0.80	0.78	-2.2%
PCB-91 22'34'6'-PeCB	29.04	2.73E+09	0.63 Y	0.94	1.03	8.9%
PCB-84 22'33'6'-PeCB	29.24	1.98E+09	0.62 Y	0.72	0.74	3.7%
PCB-89 22'346'-PeCB	29.65	2.09E+09	0.62 Y	0.76	0.79	3.0%
PCB-121 23'45'6'-PeCB	30.00	3.31E+09	0.62 Y	1.20	1.24	3.7%
PCB-92 22'355'-PeCB	30.32	2.25E+09	0.62 Y	0.82	0.84	2.9%
PCB-113/90/101 ...-PeCB	30.80	8.09E+09	0.62 Y	0.99	1.01	2.8%
PCB-83 22'33'5'-PeCB	31.24	1.82E+09	0.62 Y	0.71	0.69	-4.1%
PCB-99 22'44'5'-PeCB	31.34	2.67E+09	0.62 Y	0.92	1.00	8.8%
PCB-112 233'56'-PeCB	31.44	3.15E+09	0.63 Y	1.17	1.18	1.3%
PCB-108/119/86/97/125...-PeCB	31.79	1.55E+10	0.68 Y	0.98	0.97	-0.7%
PCB-117 234'56'-PeCB	32.33	3.32E+09	0.62 Y	1.14	1.25	9.6%
PCB-116/85 23456/22'344'-PeCB	32.42	5.04E+09	0.63 Y	0.94	0.95	0.6%
PCB-110 233'4'6'-PeCB	32.53	3.01E+09	0.62 Y	1.12	1.13	1.1%

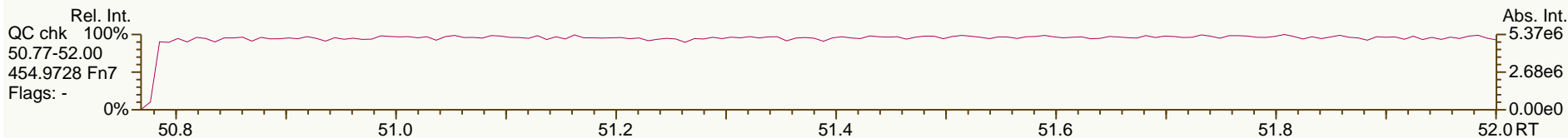
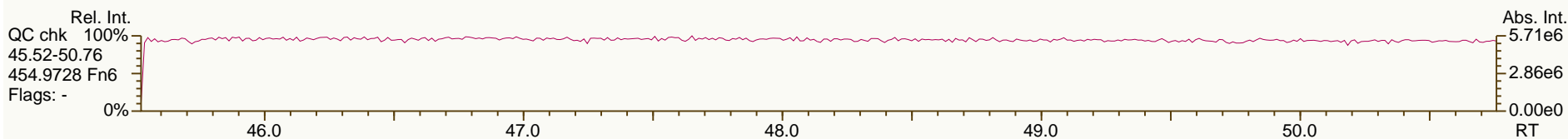
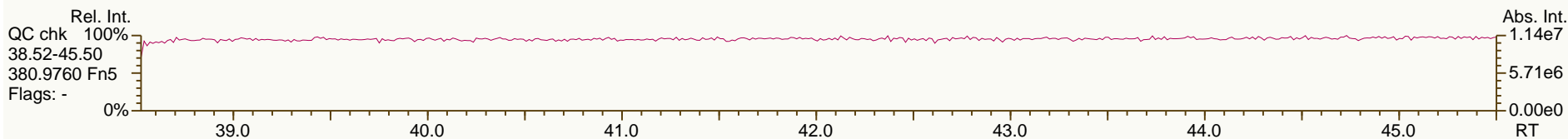
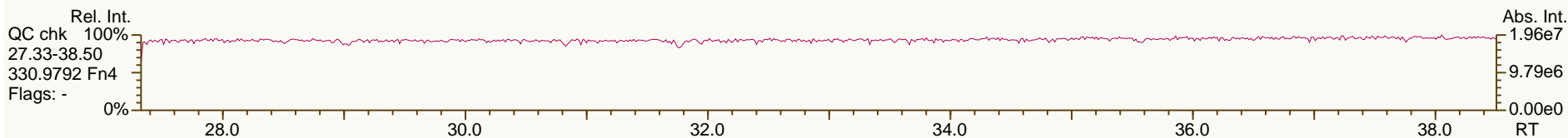
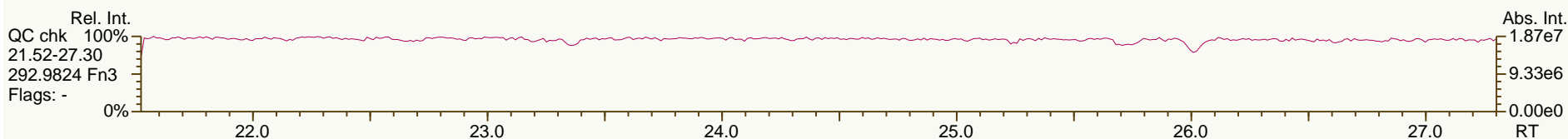
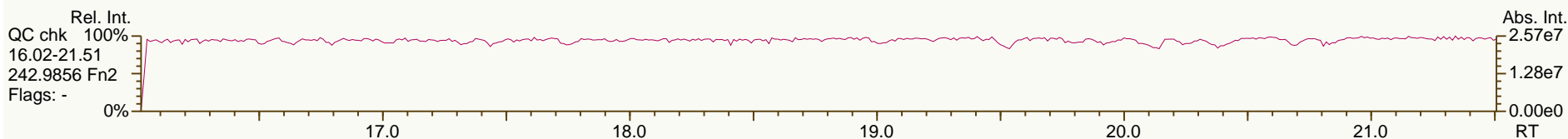
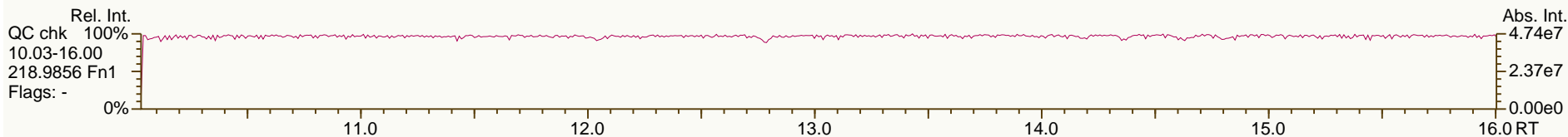
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	32.62	3.31E+09	0.63 Y	1.16	1.24	7.2%	
PCB-82 22'33'4'-PeCB	32.81	1.94E+09	0.62 Y	0.70	0.73	4.5%	
PCB-111 233'55'-PeCB	33.13	3.35E+09	0.63 Y	1.22	1.26	3.1%	
PCB-120 23'455'-PeCB	33.53	3.41E+09	0.62 Y	1.21	1.28	5.7%	
PCB-107/124 ...-PeCB	34.50	6.21E+09	0.63 Y	1.10	1.17	6.2%	
PCB-109 233'46'-PeCB	34.71	3.61E+09	0.62 Y	1.25	1.36	8.2%	
PCB-106 233'45'-PeCB	34.93	3.03E+09	0.62 Y	1.11	1.14	3.1%	
PCB-122 233'4'5'-PeCB	35.39	2.83E+09	0.63 Y	0.99	1.06	6.1%	
PCB-127 33'455'-PeCB	37.34	3.14E+09	0.62 Y	1.10	1.19	8.8%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-152 22'3566'-HxCB	30.82	2.78E+09	1.26 Y	1.17	1.23	5.0%	
PCB-150 22'34'66'-HxCB	30.97	2.75E+09	1.26 Y	1.18	1.22	3.6%	
PCB-136 22'33'66'-HxCB	31.27	2.61E+09	1.27 Y	1.07	1.16	8.4%	
PCB-145 22'3466'-HxCB	31.54	2.61E+09	1.28 Y	1.11	1.16	3.7%	
PCB-148 22'34'56'-HxCB	32.82	2.03E+09	1.30 Y	1.18	1.25	5.4%	
PCB-151/135 ...-HxCB	33.34	3.85E+09	1.28 Y	1.14	1.18	3.6%	
PCB-154 22'44'56'-HxCB	33.55	2.26E+09	1.26 Y	1.34	1.38	3.2%	
PCB-144 22'345'6'-HxCB	33.81	1.97E+09	1.28 Y	1.18	1.20	1.8%	
PCB-147/149 ...-HxCB	34.12	4.02E+09	1.26 Y	1.18	1.23	4.9%	
PCB-134 22'33'56'-HxCB	34.29	1.54E+09	1.26 Y	0.92	0.94	2.0%	
PCB-143 22'3456'-HxCB	34.37	1.89E+09	1.28 Y	1.13	1.16	2.7%	
PCB-139/140 ...-HxCB	34.64	4.13E+09	1.28 Y	1.21	1.27	5.1%	
PCB-131 22'33'46'-HxCB	34.81	1.73E+09	1.28 Y	1.03	1.06	3.7%	
PCB-142 22'3456'-HxCB	34.96	1.72E+09	1.26 Y	0.99	1.06	6.7%	
PCB-132 22'33'46'-HxCB	35.19	1.74E+09	1.27 Y	1.03	1.06	3.2%	
PCB-133 22'33'55'-HxCB	35.60	1.91E+09	1.26 Y	1.13	1.17	3.7%	
PCB-165 233'55'6'-HxCB	35.94	2.36E+09	1.27 Y	1.41	1.44	2.5%	
PCB-146 22'34'55'-HxCB	36.15	2.06E+09	1.27 Y	1.20	1.26	5.0%	
PCB-161 233'45'6'-HxCB	36.27	2.61E+09	1.27 Y	1.52	1.60	5.3%	
PCB-153/168 ...-HxCB	36.70	4.99E+09	1.28 Y	1.46	1.53	5.0%	
PCB-141 22'3455'-HxCB	36.85	1.83E+09	1.27 Y	1.09	1.12	2.9%	
PCB-130 22'33'45'-HxCB	37.19	1.63E+09	1.26 Y	0.97	1.00	3.0%	
PCB-137 22'344'5'-HxCB	37.39	2.02E+09	1.27 Y	1.16	1.24	6.3%	
PCB-164 233'4'5'6'-HxCB	37.47	2.53E+09	1.29 Y	1.50	1.55	3.5%	
PCB-163/138/129 ...-HxCB	37.77	6.19E+09	1.26 Y	1.19	1.27	6.4%	
PCB-160 233'456'-HxCB	37.90	2.49E+09	1.29 Y	1.52	1.52	0.6%	
PCB-158 233'44'6'-HxCB	38.09	2.80E+09	1.28 Y	1.66	1.72	3.4%	
PCB-128/166 ...-HxCB	38.82	4.79E+09	1.22 Y	0.90	0.98	8.8%	
PCB-159 233'455'-HxCB	39.64	2.87E+09	1.23 Y	1.11	1.17	5.3%	
PCB-162 233'4'55'-HxCB	39.88	2.82E+09	1.22 Y	1.07	1.15	7.5%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-179 22'33'566'-HpCB	35.83	1.59E+09	1.11 Y	1.16	1.15	-0.7%	
PCB-184 22'344'66'-HpCB	36.30	1.62E+09	1.09 Y	1.13	1.17	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	1.74E+09	1.08 Y	1.23	1.26	2.3%	
PCB-186 22'34566'-HpCB	36.99	1.57E+09	1.09 Y	1.13	1.14	1.1%	
PCB-178 22'33'55'6'-HpCB	38.12	1.21E+09	1.09 Y	0.84	0.88	4.2%	
PCB-175 22'33'45'6'-HpCB	38.67	1.91E+09	1.06 Y	1.07	1.15	7.1%	
PCB-187 22'34'55'6'-HpCB	38.90	2.01E+09	1.06 Y	1.14	1.21	6.2%	
PCB-182 22'344'56'-HpCB	39.08	2.05E+09	1.06 Y	1.18	1.23	4.6%	
PCB-183 22'344'5'6'-HpCB	39.42	2.03E+09	1.05 Y	1.20	1.22	1.1%	
PCB-185 22'3455'6'-HpCB	39.51	2.01E+09	1.06 Y	1.06	1.21	13.9%	
PCB-174 22'33'456'-HpCB	39.62	1.71E+09	1.06 Y	0.99	1.03	4.0%	
PCB-177 22'33'45'6'-HpCB	39.99	1.65E+09	1.06 Y	0.95	0.99	4.3%	
PCB-181 22'344'56'-HpCB	40.34	1.95E+09	1.06 Y	1.09	1.17	7.5%	
PCB-171/173 ...-HpCB	40.53	3.42E+09	1.06 Y	0.95	1.03	8.3%	
PCB-172 22'33'455'-HpCB	41.88	1.73E+09	1.06 Y	0.99	1.04	5.0%	
PCB-192 233'455'6'-HpCB	42.13	2.27E+09	1.06 Y	1.29	1.36	5.9%	
PCB-180/193 ...-HpCB	42.40	4.38E+09	1.06 Y	1.26	1.31	4.3%	
PCB-191 233'44'5'6'-HpCB	42.73	2.40E+09	1.06 Y	1.40	1.44	3.3%	
PCB-170 22'33'44'5'-HpCB	43.51	1.66E+09	1.05 Y	1.14	1.24	9.0%	
PCB-190 233'44'56'-HpCB	43.96	2.44E+09	1.05 Y	1.66	1.82	9.7%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-201 22'33'45'66'-OcCB	40.89	1.78E+09	0.92 Y	1.22	1.24	1.8%	
PCB-204 22'344'566'-OcCB	41.47	1.66E+09	0.92 Y	1.12	1.16	3.8%	
PCB-197 22'33'44'66'-OcCB	41.66	1.80E+09	0.92 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.75	1.68E+09	0.92 Y	1.11	1.17	6.1%	
PCB-198/199 ...-OcCB	44.07	2.46E+09	0.91 Y	0.81	0.86	5.9%	
PCB-196 22'33'44'56'-OcCB	44.65	1.24E+09	0.91 Y	0.83	0.87	3.9%	
PCB-203 22'344'55'6'-OcCB	44.82	1.30E+09	0.92 Y	0.87	0.91	4.0%	
PCB-195 22'33'44'56'-OcCB	45.95	1.40E+09	0.92 Y	0.77	0.82	6.5%	
PCB-194 22'33'44'55'-OcCB	47.89	1.50E+09	0.93 Y	0.84	0.88	4.1%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-207 22'33'44'566'-NoCB	46.53	2.03E+09	0.79 Y	1.19	1.24	4.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

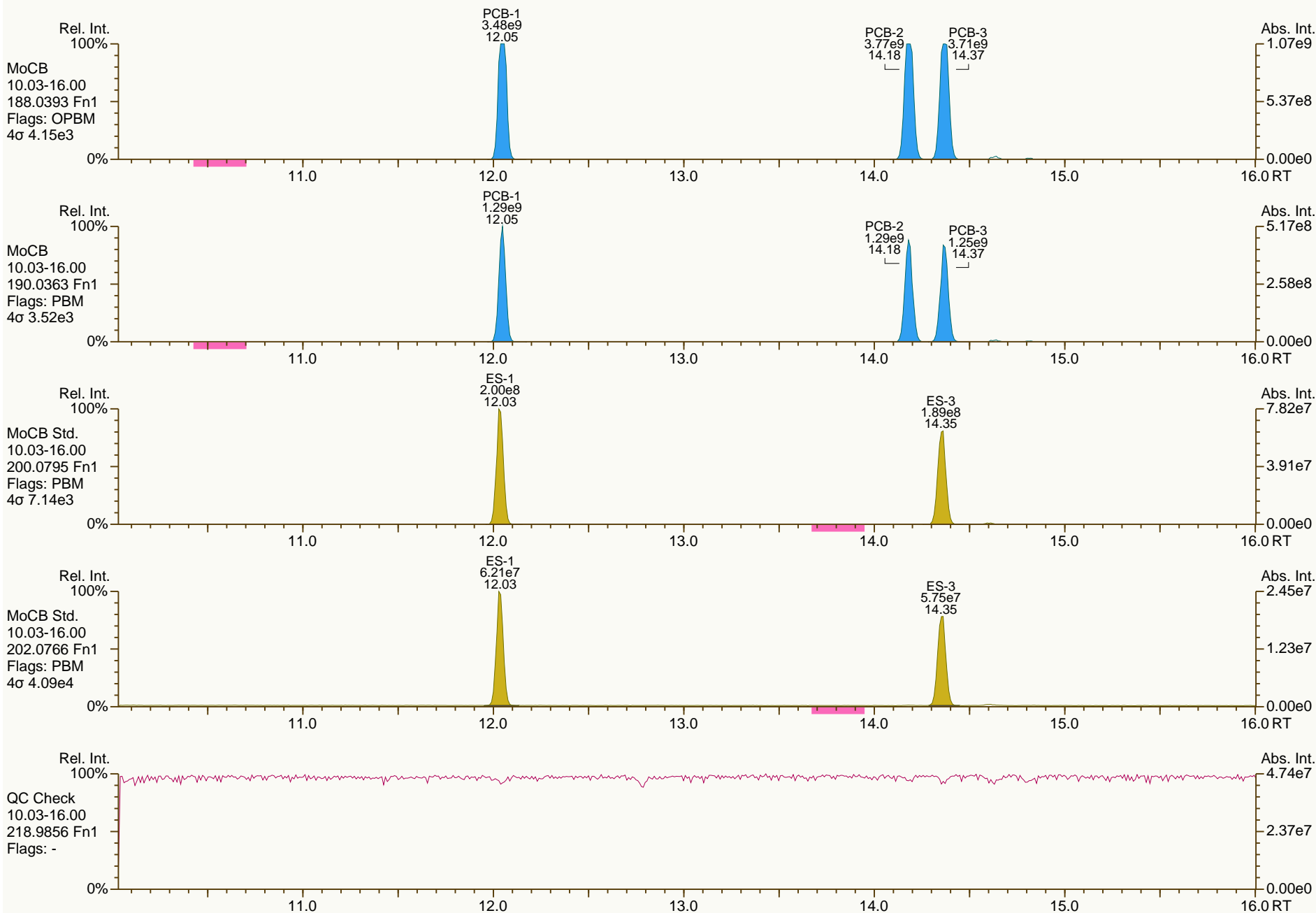
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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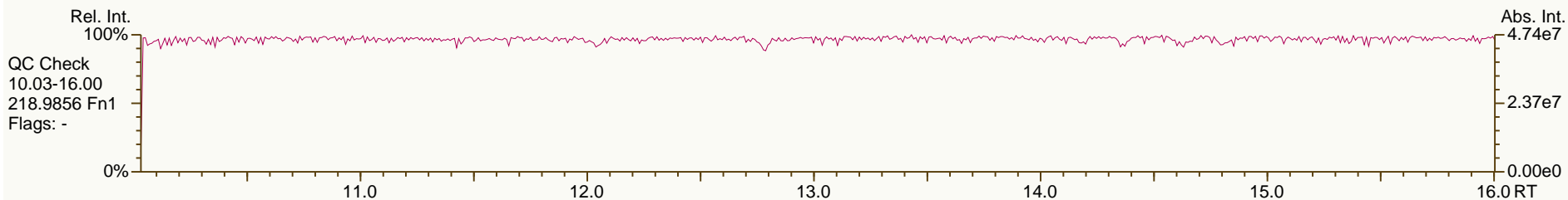
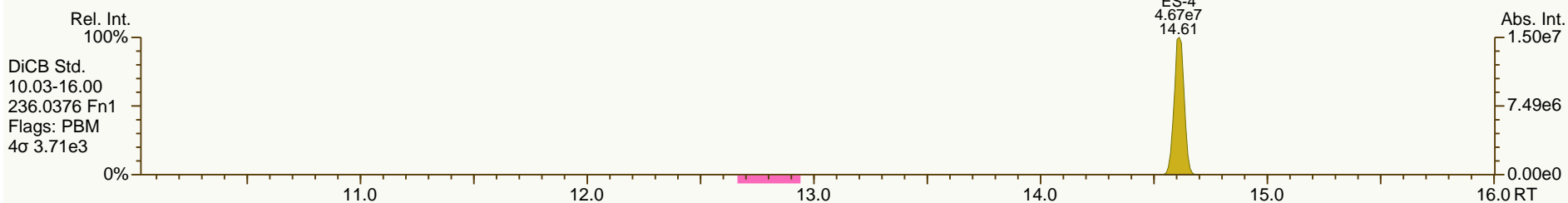
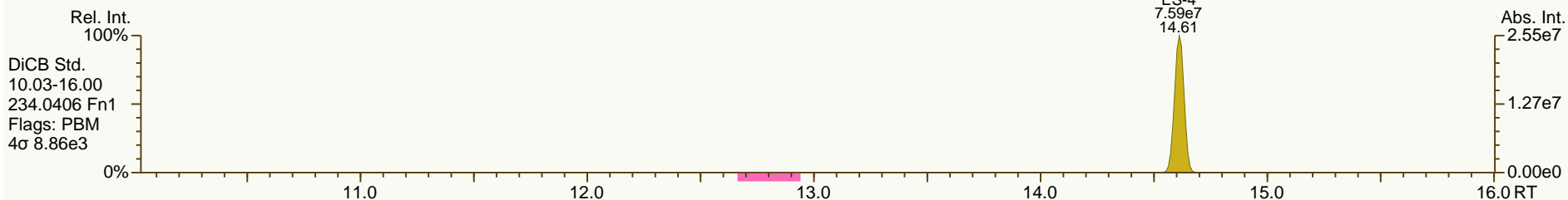
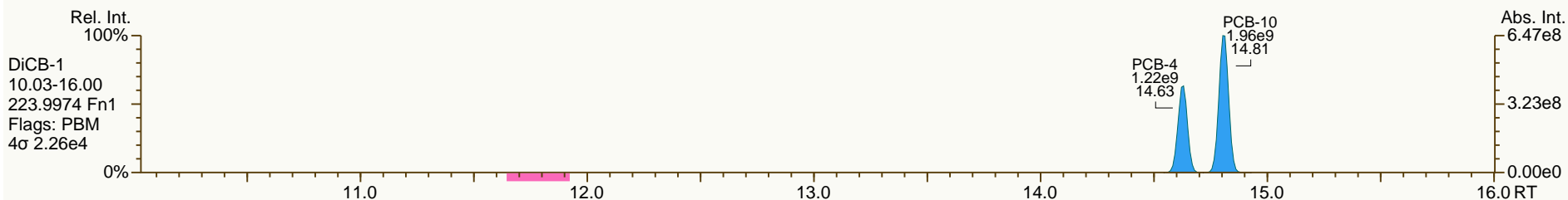
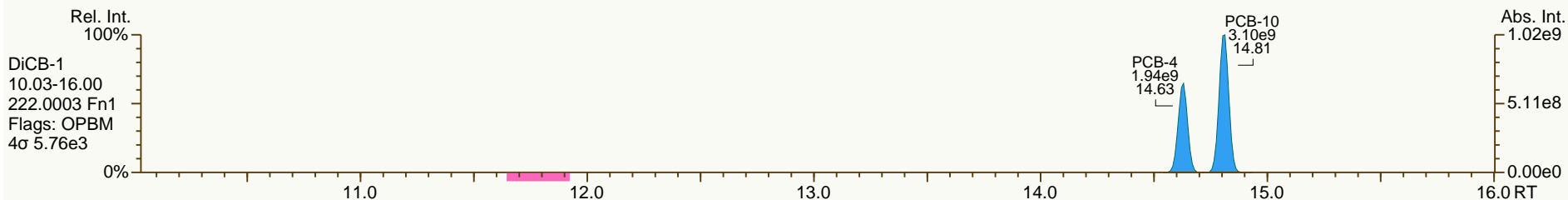
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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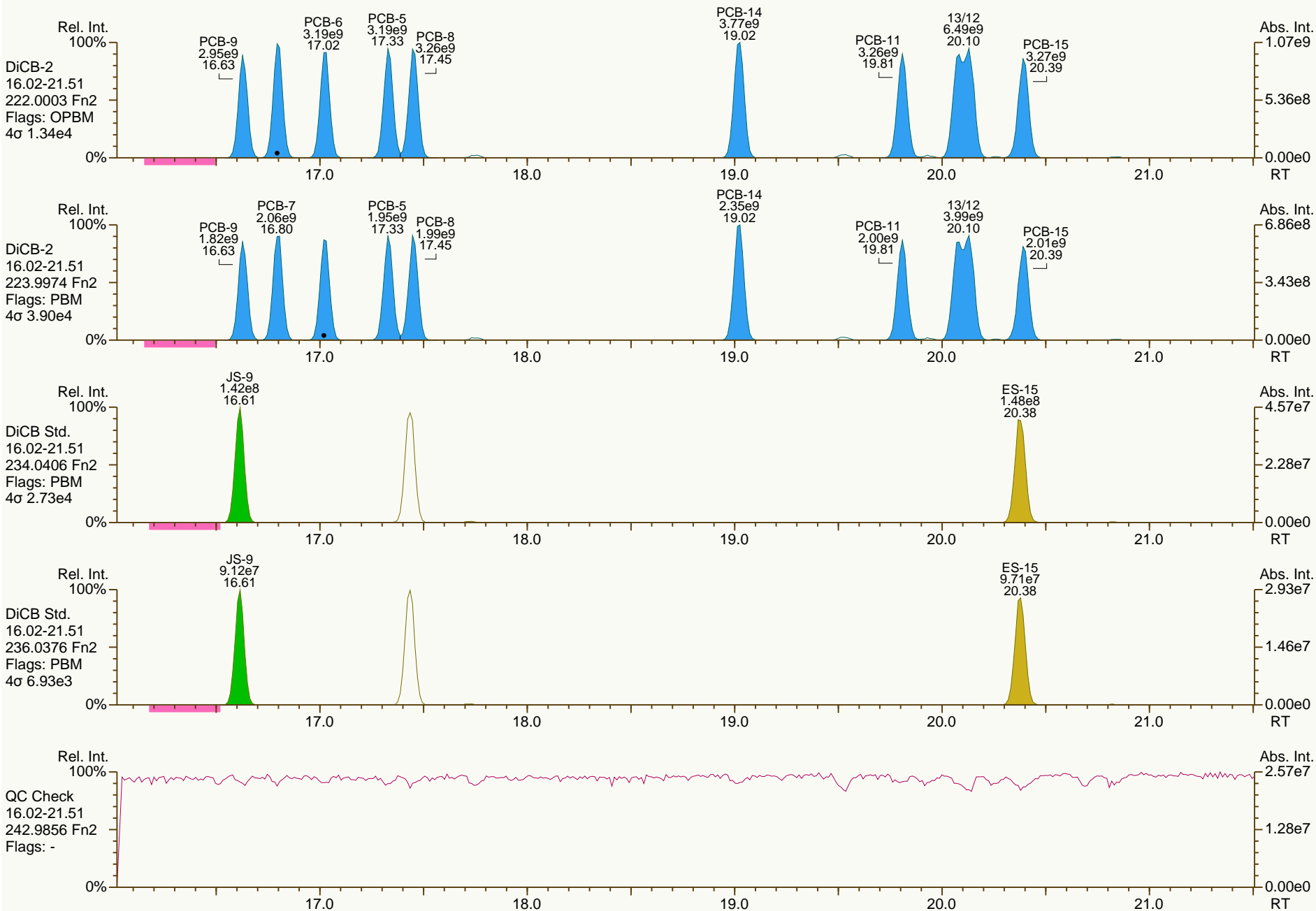
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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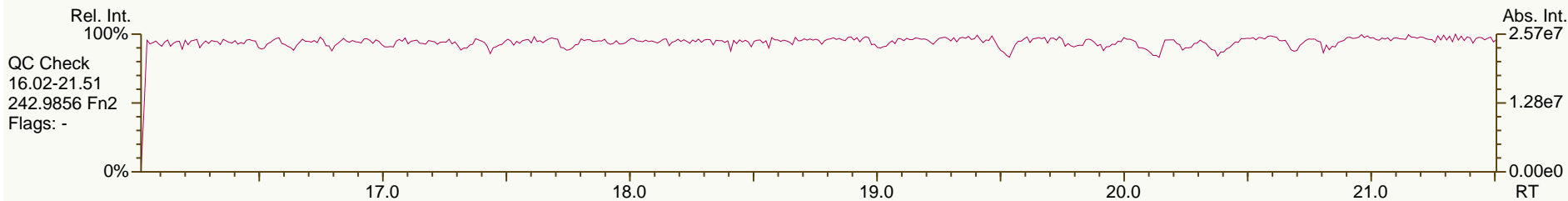
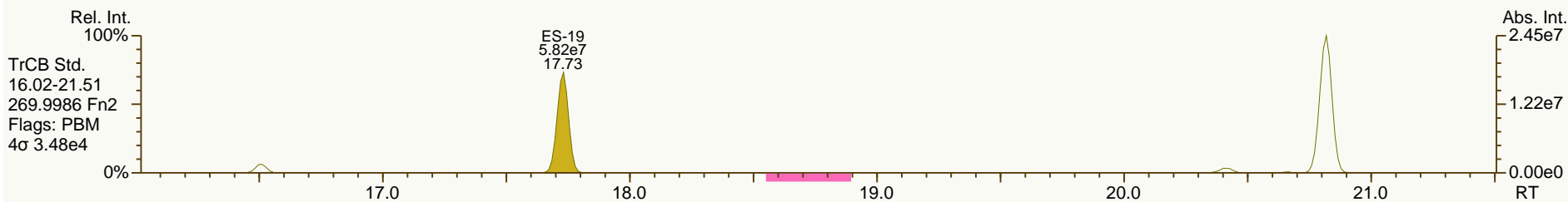
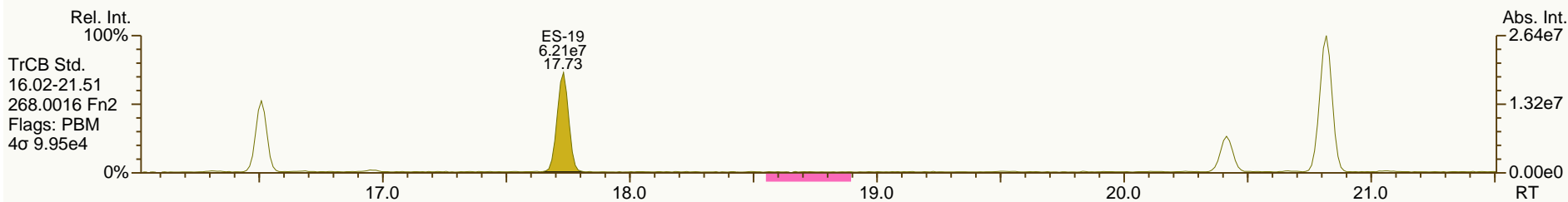
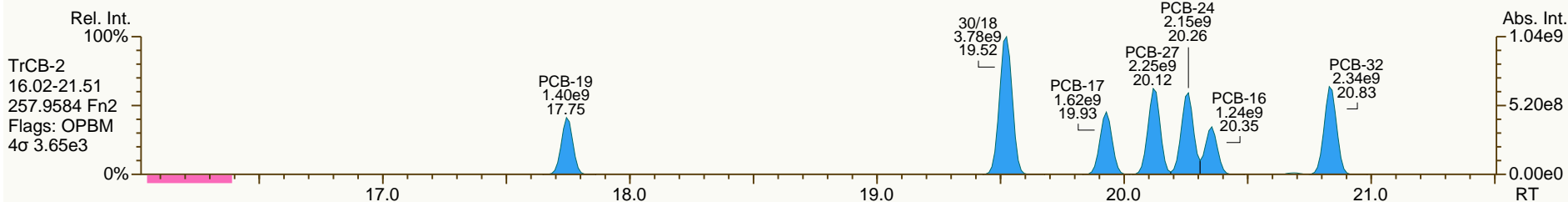
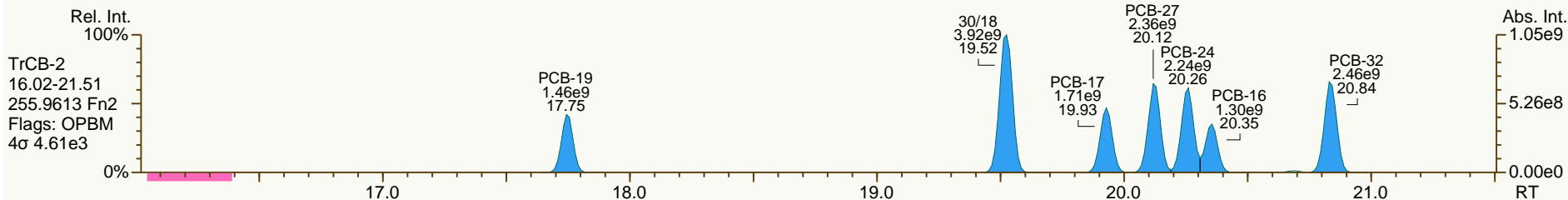
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

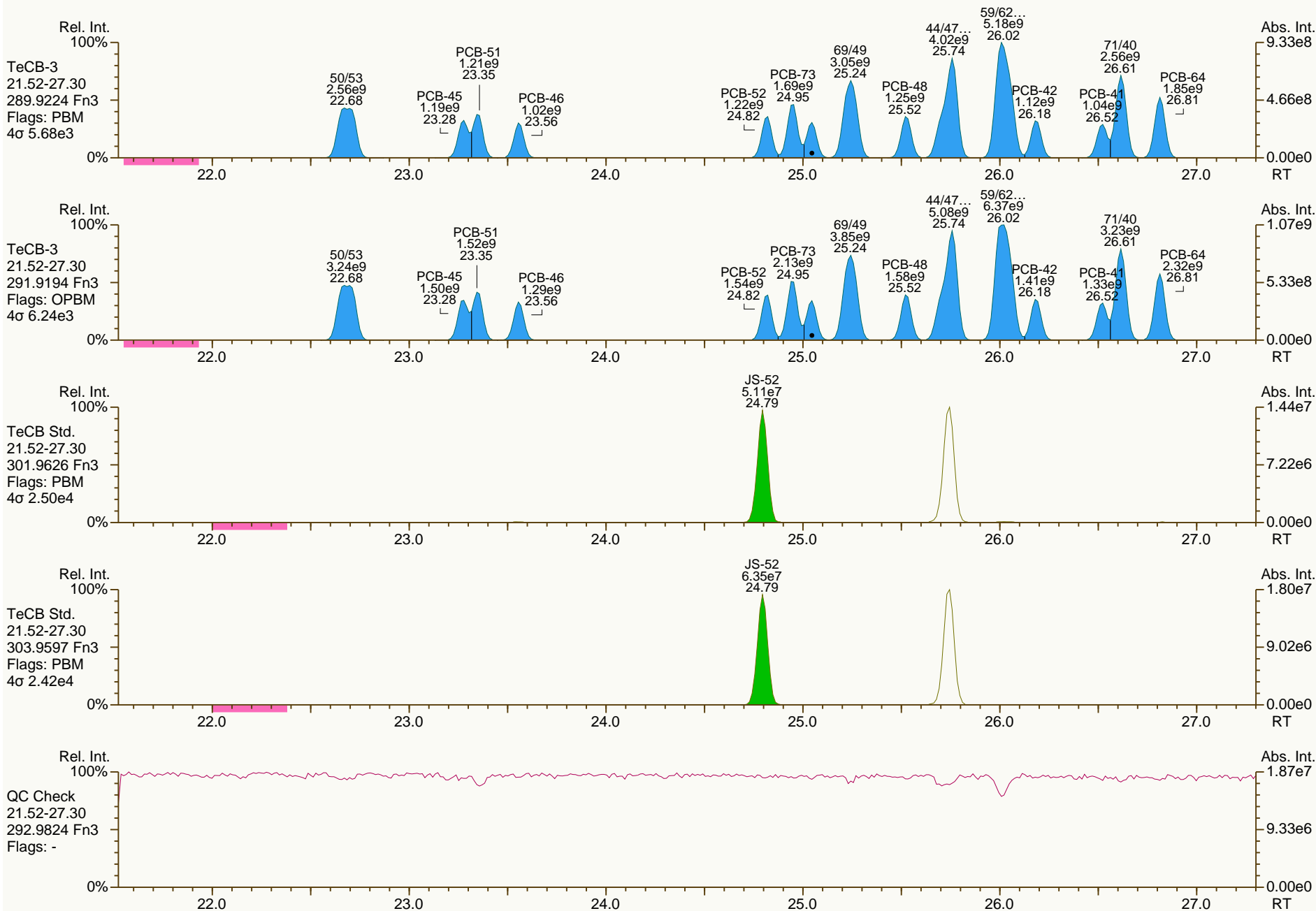
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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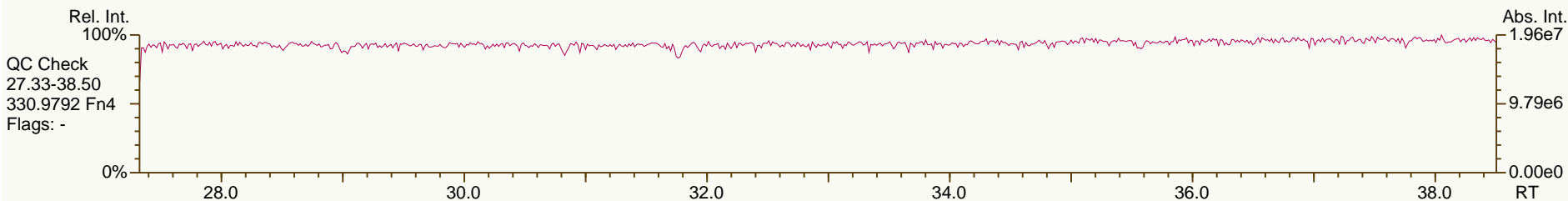
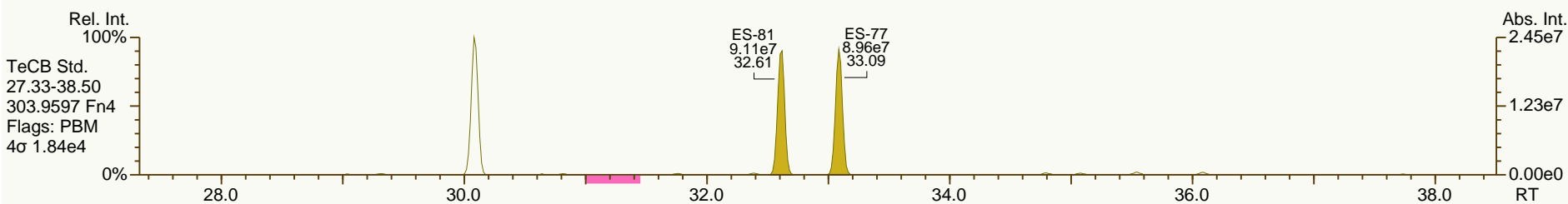
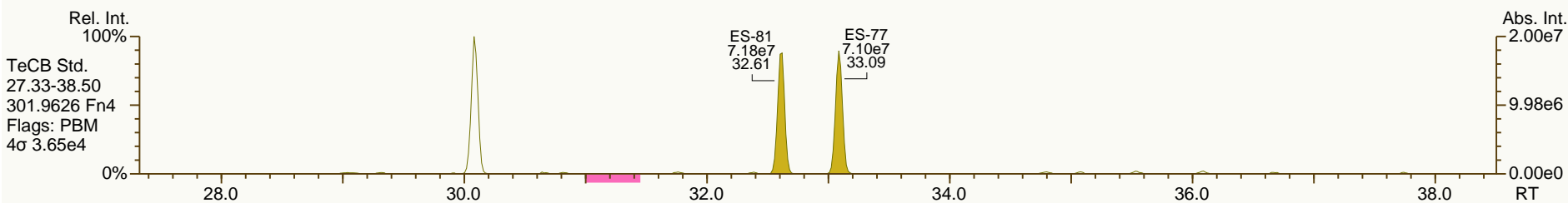
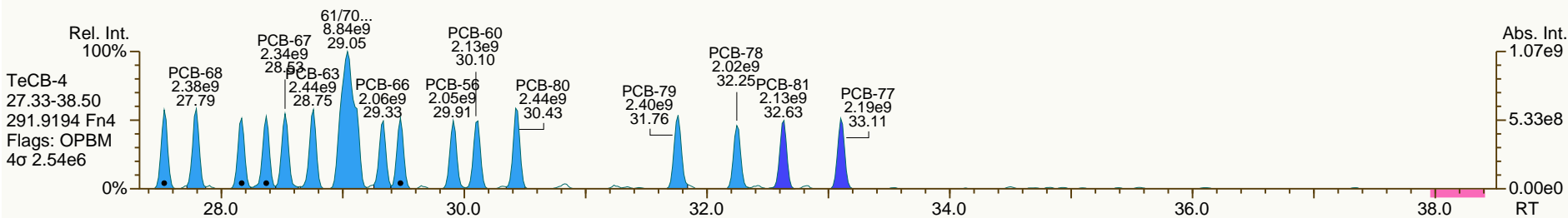
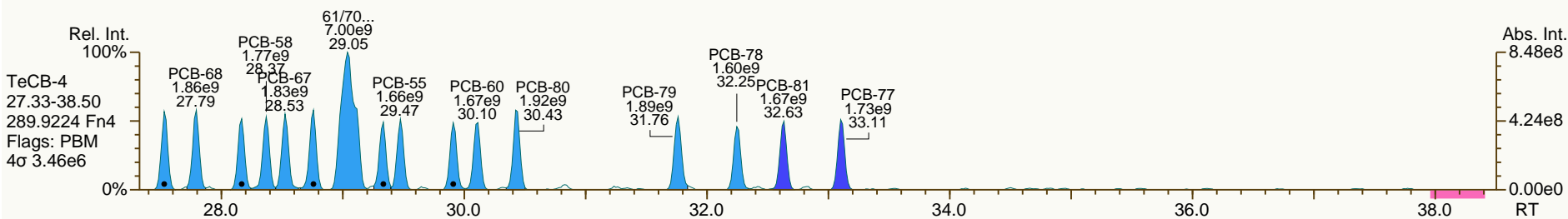
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

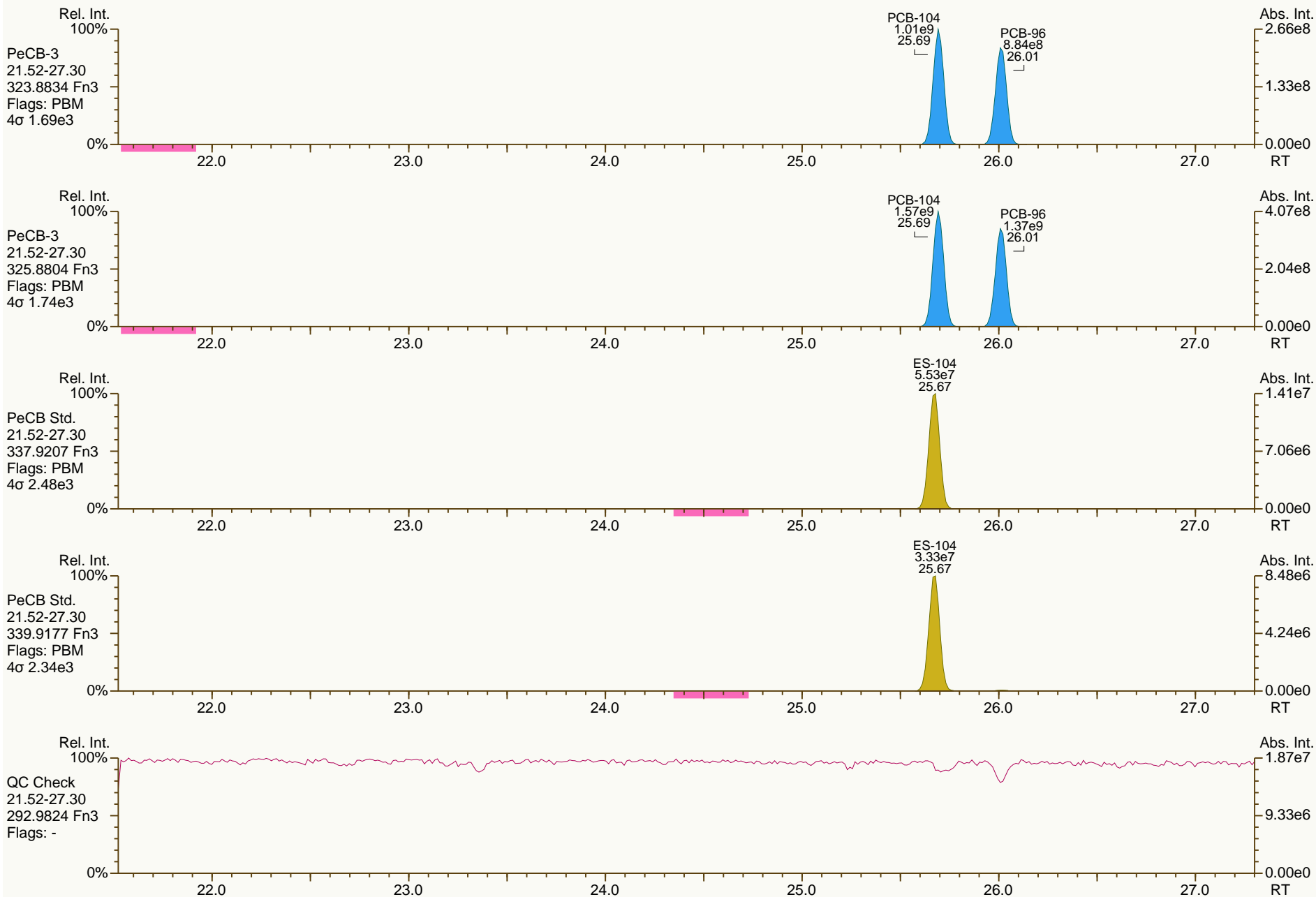
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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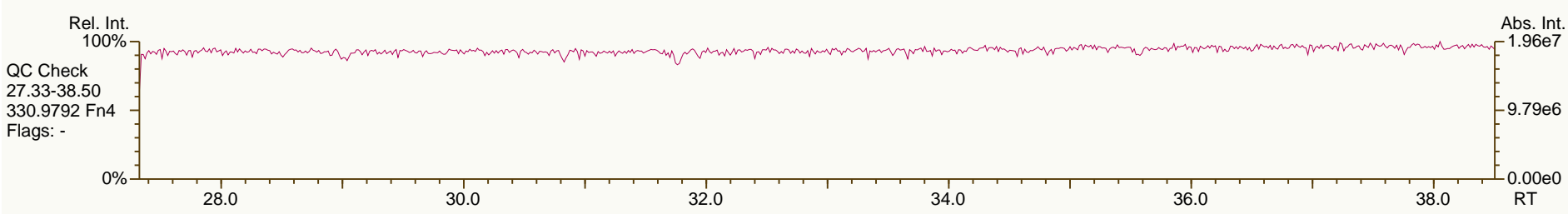
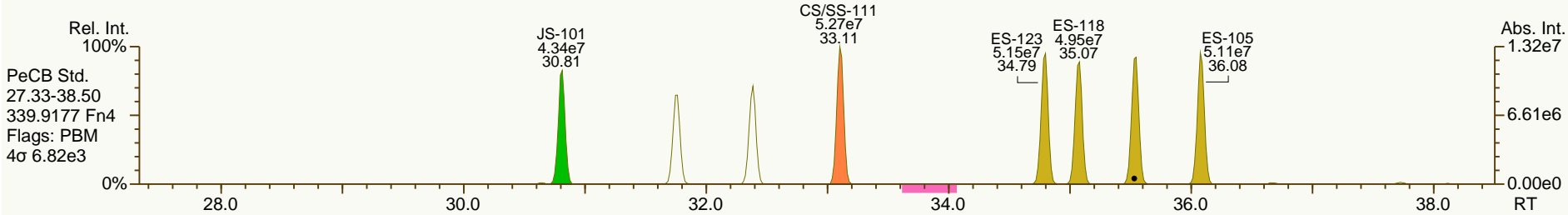
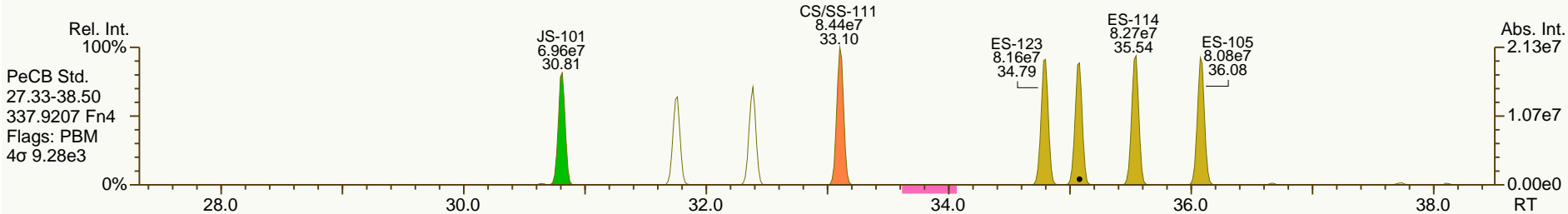
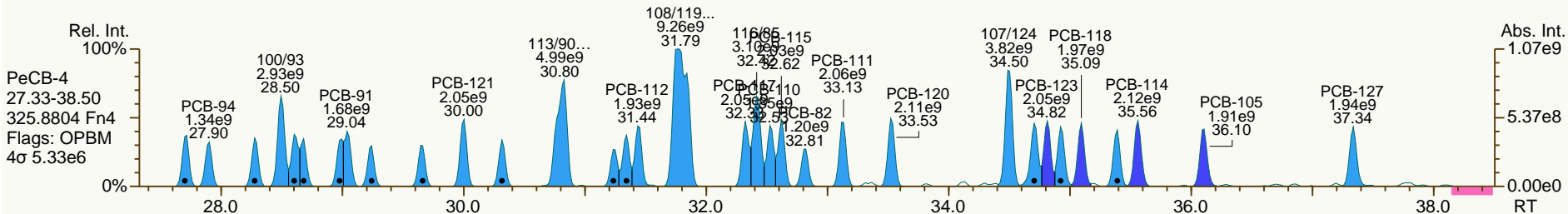
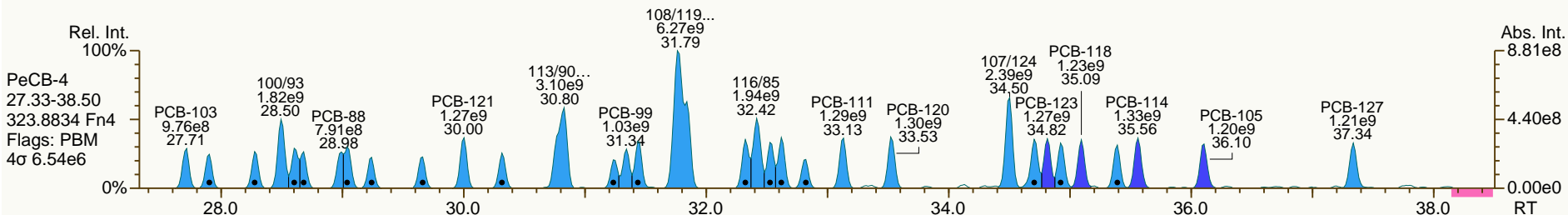
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

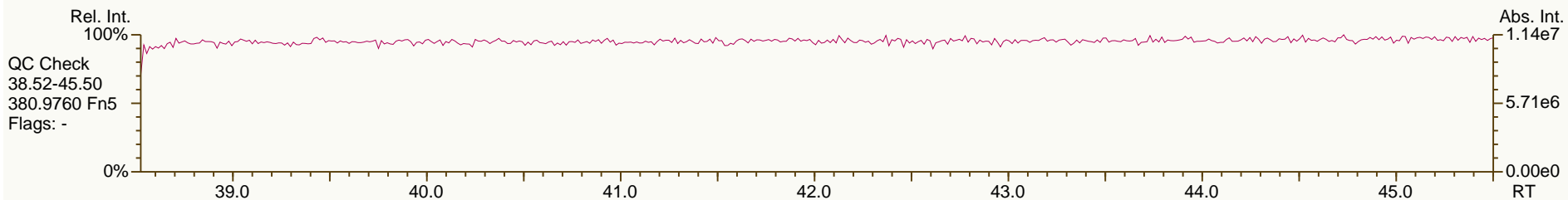
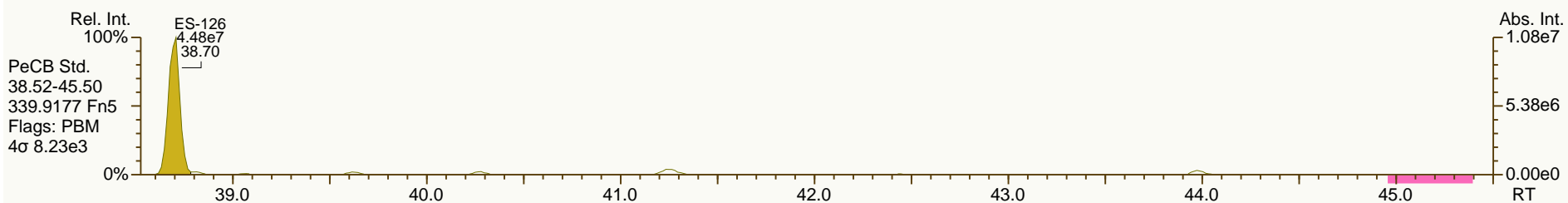
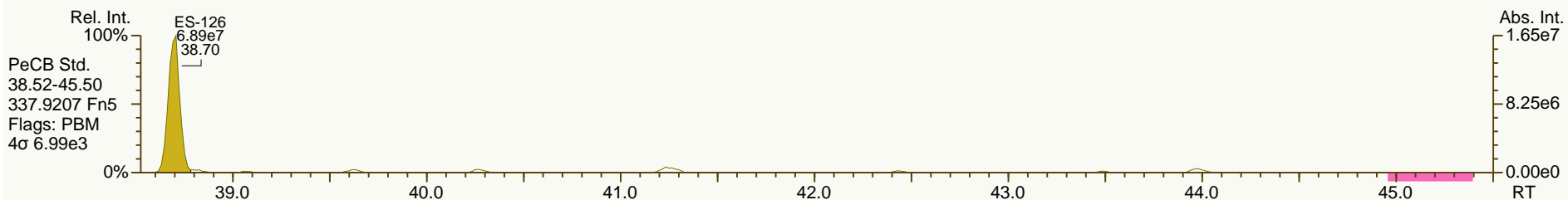
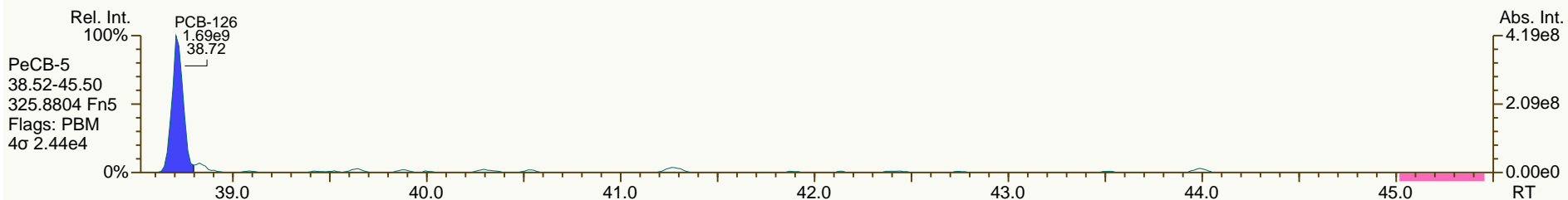
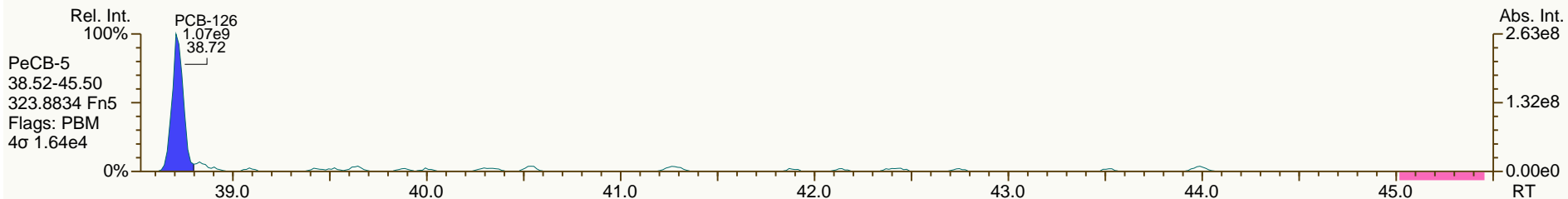
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

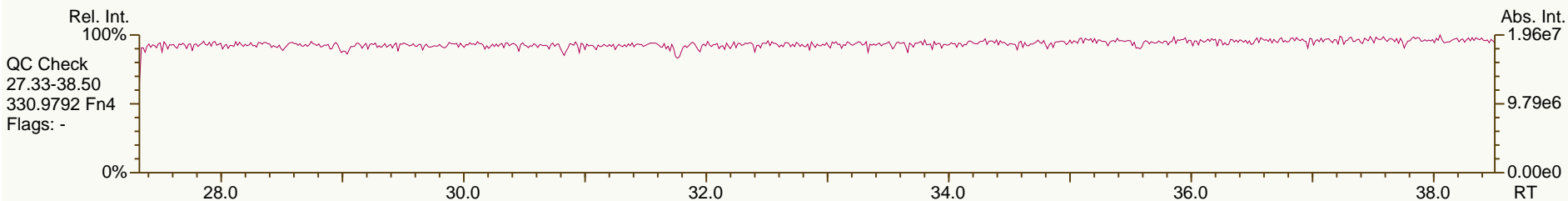
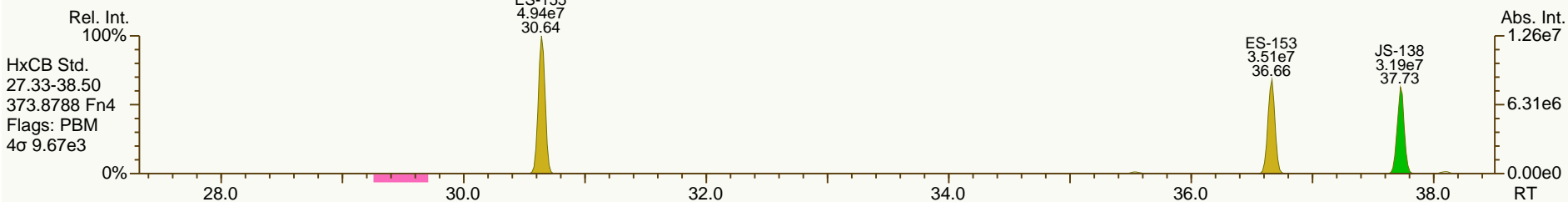
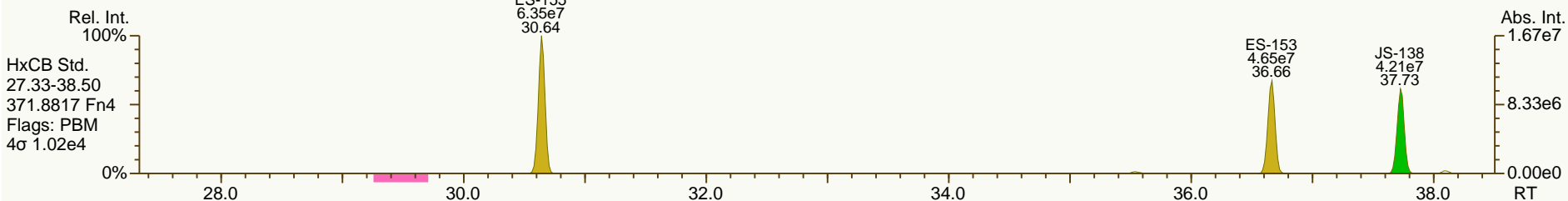
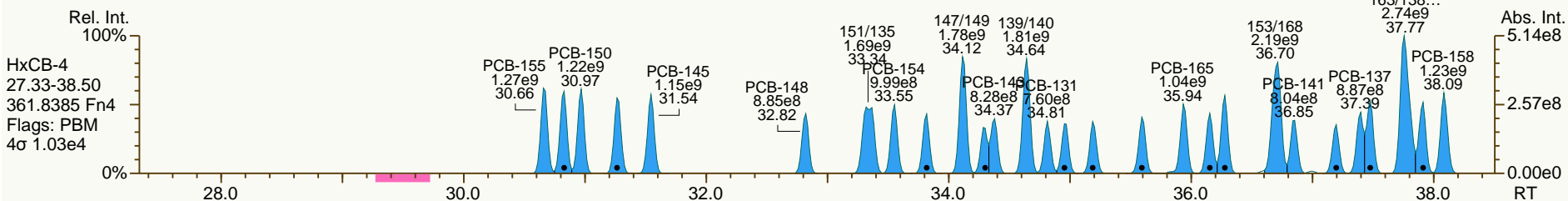
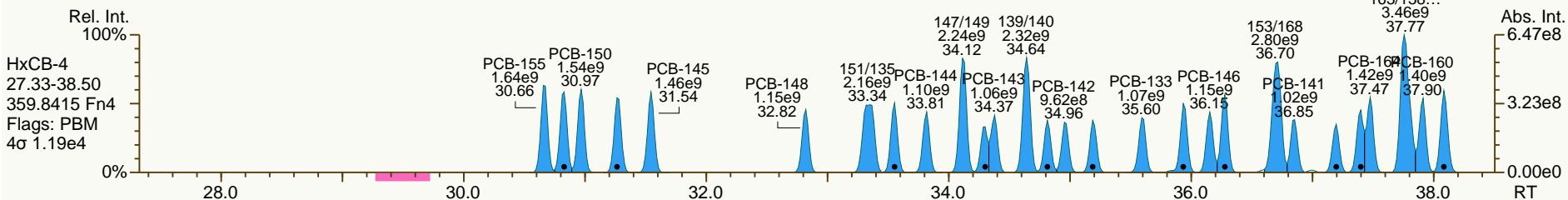
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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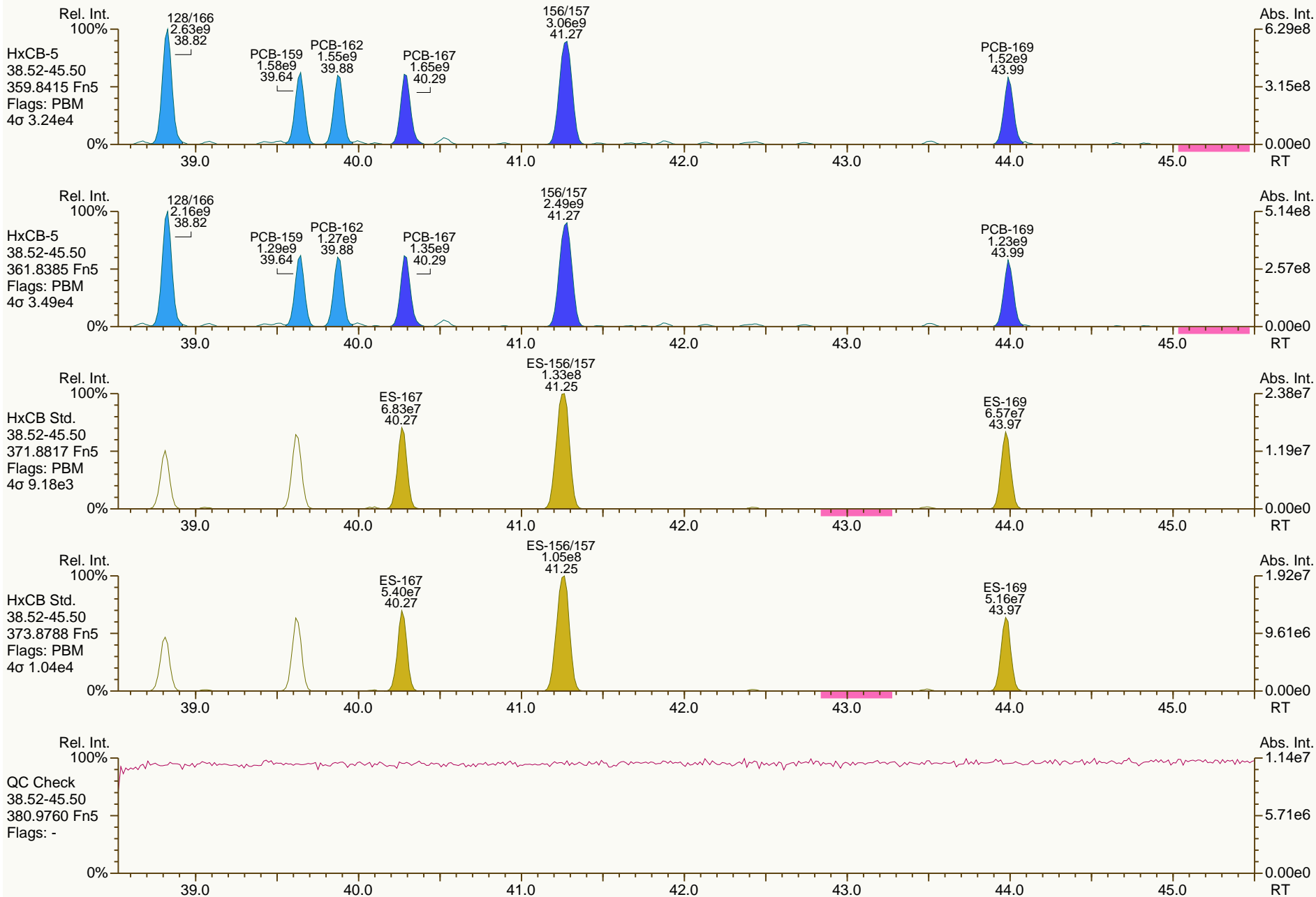




SGS-AP ID: CS5\_131220\_PCB\_XA  
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Sample ID: SIL 13-84-1  
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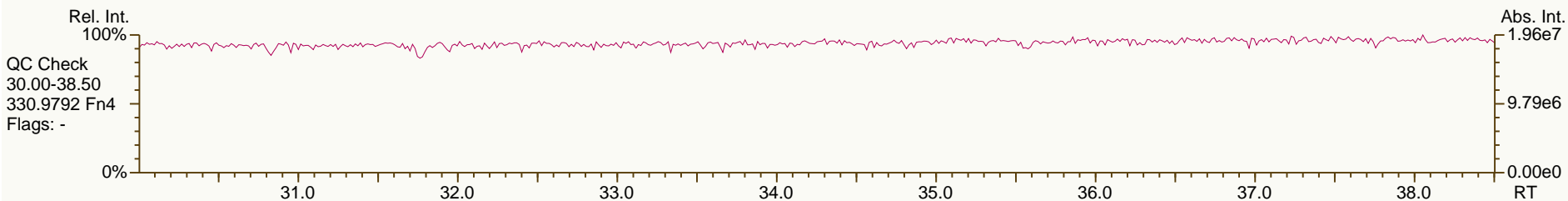
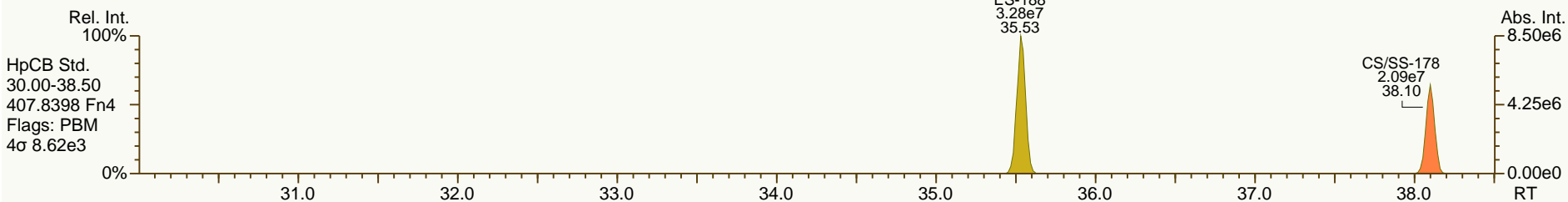
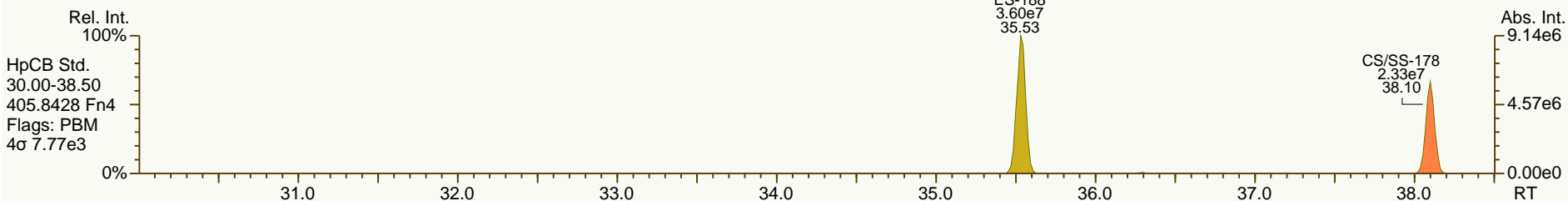
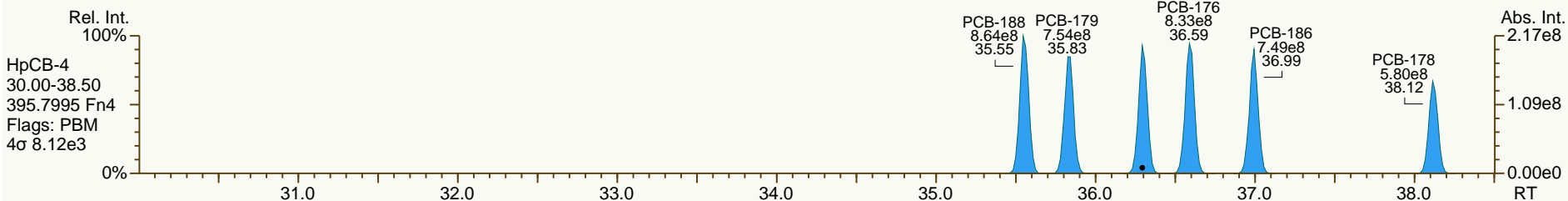
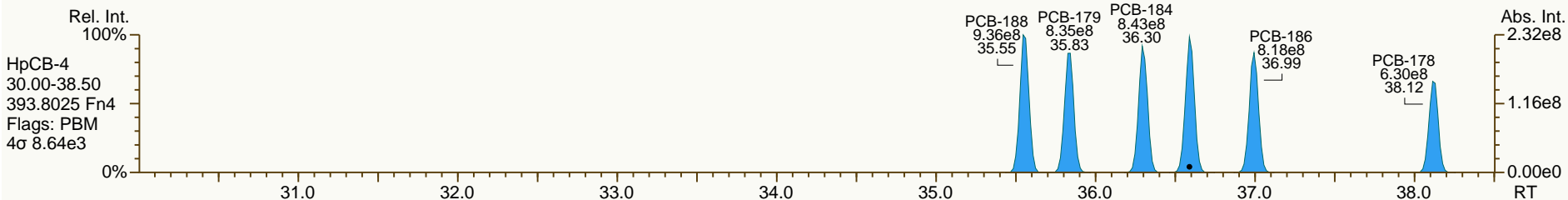
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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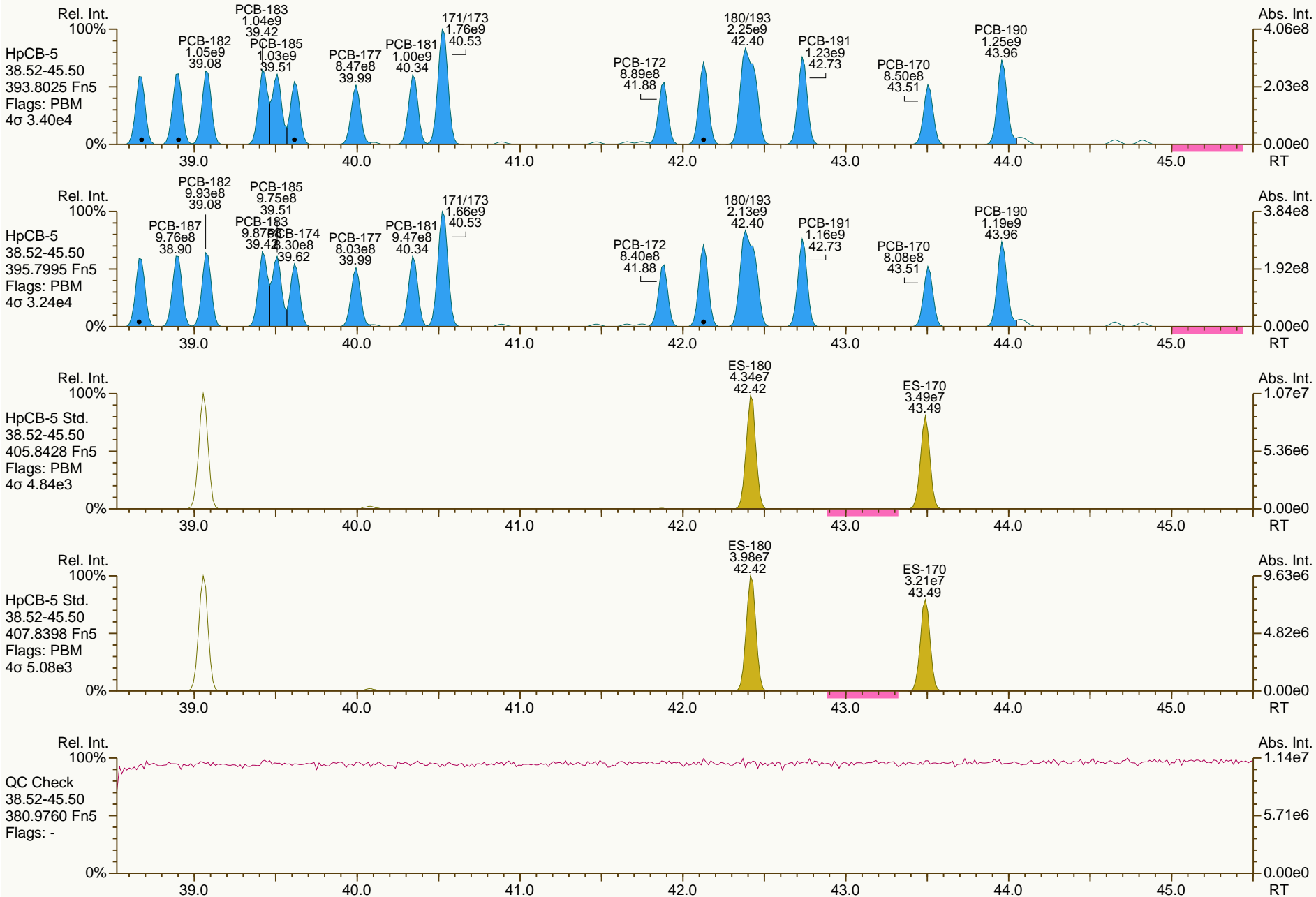
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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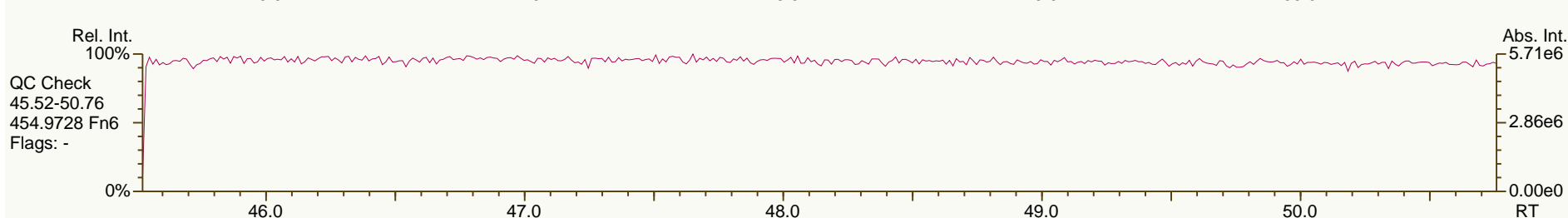
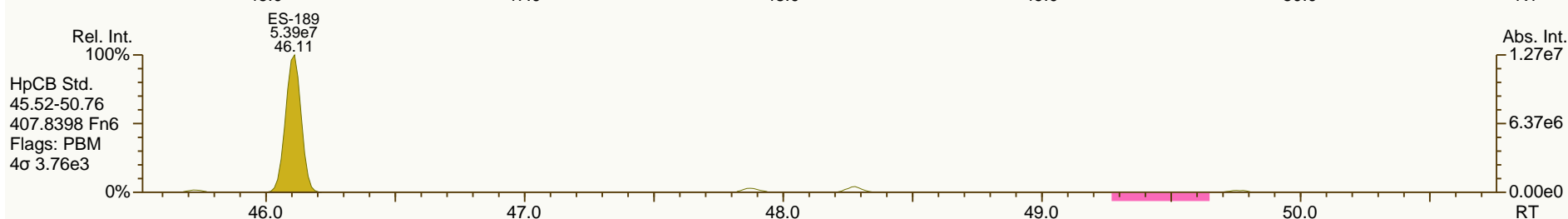
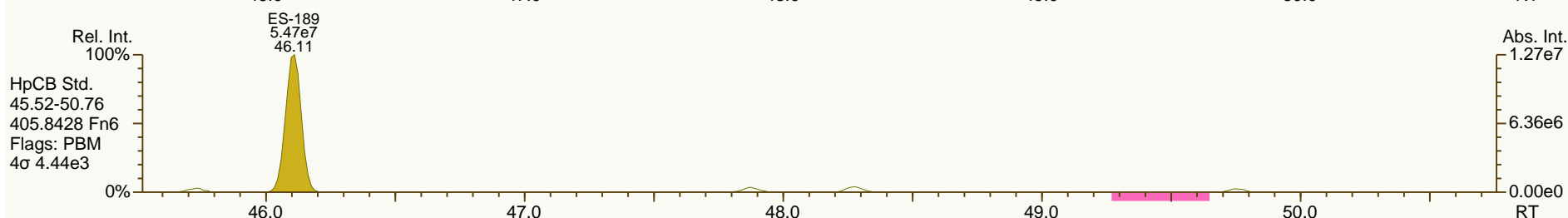
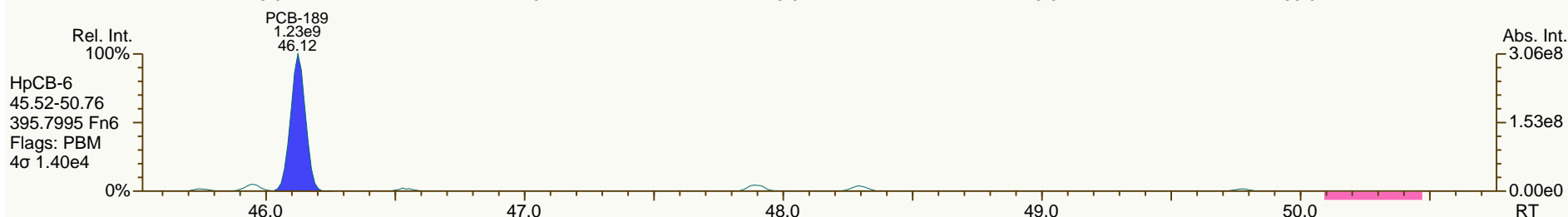
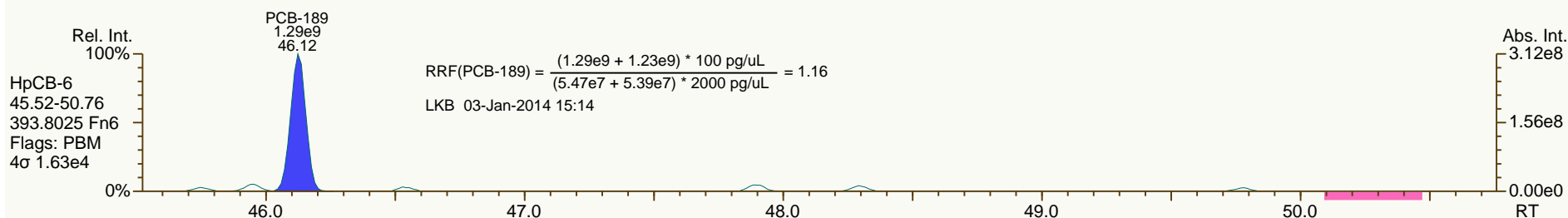
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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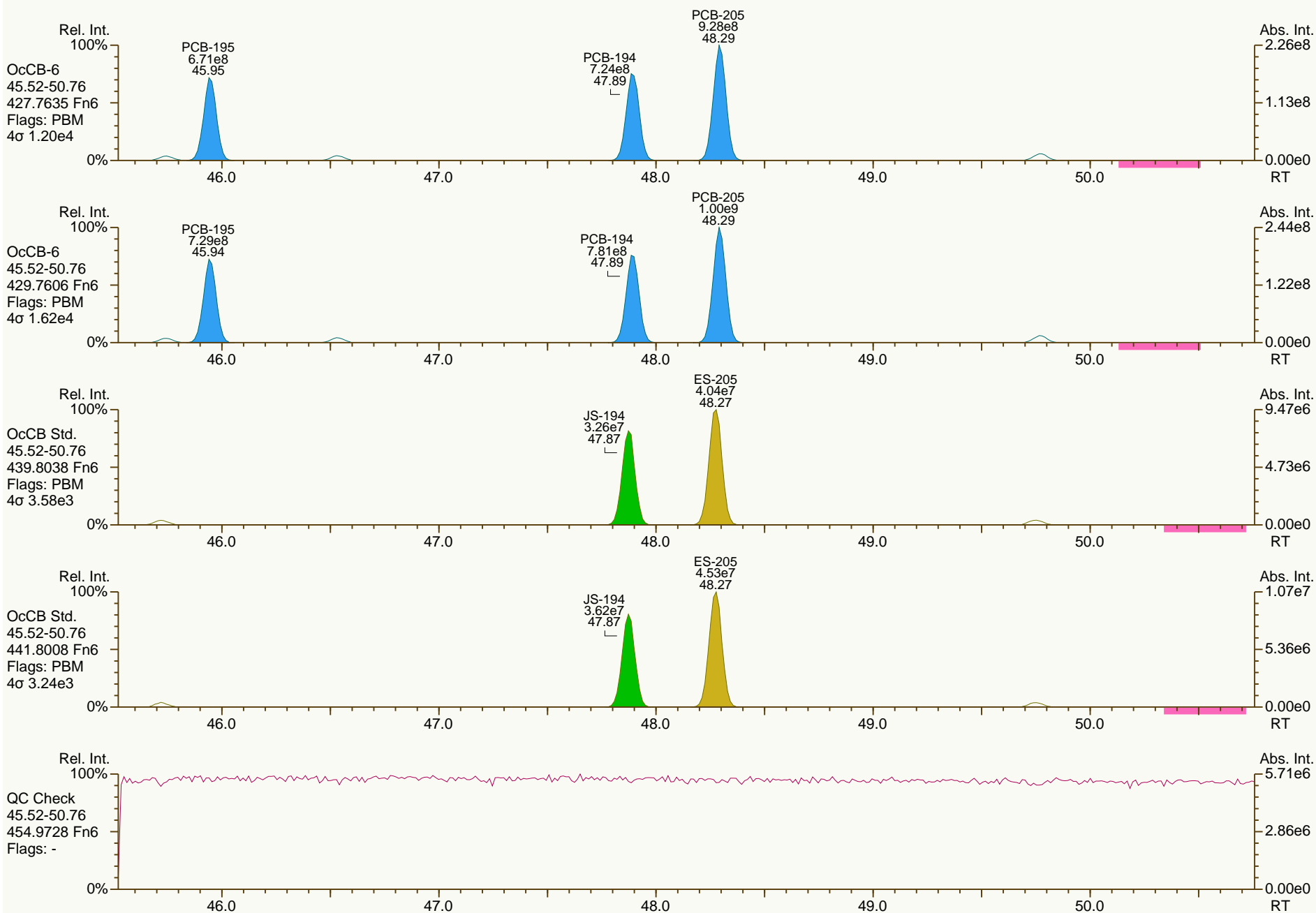
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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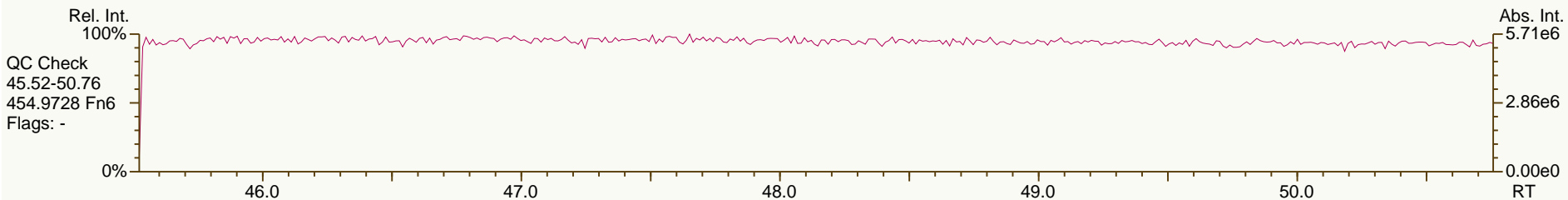
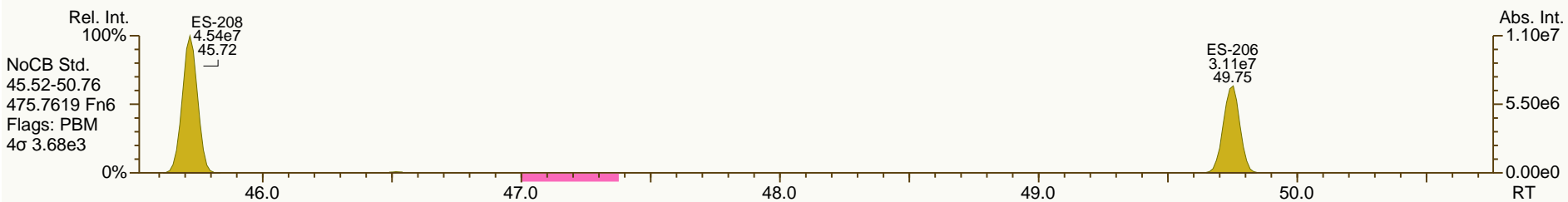
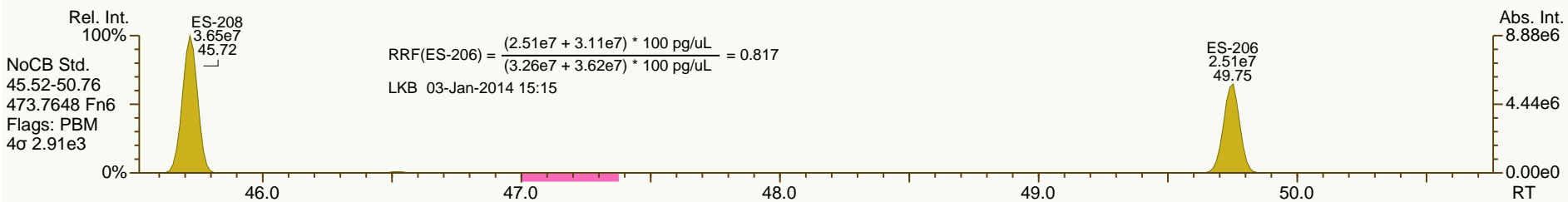
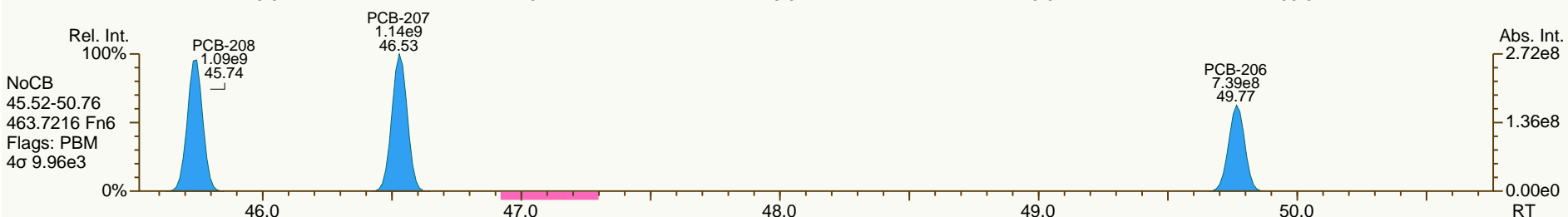
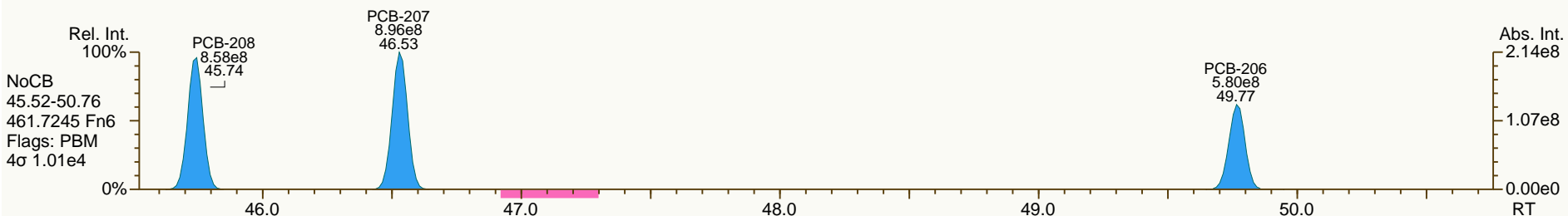
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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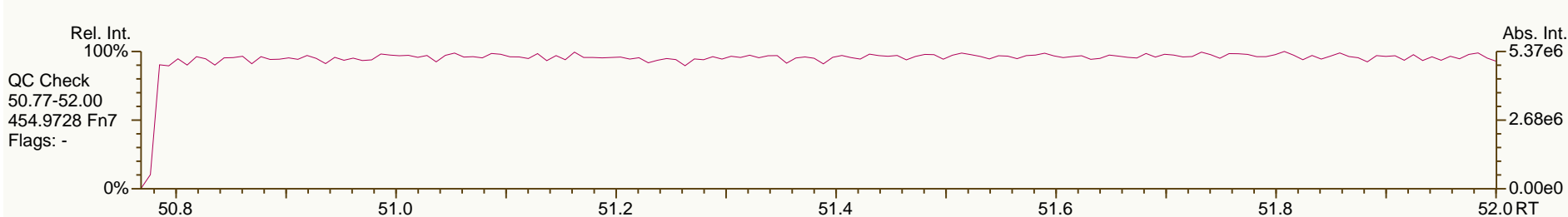
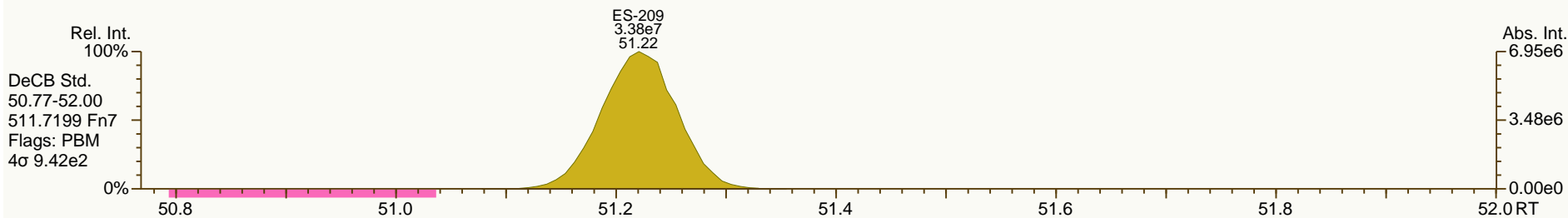
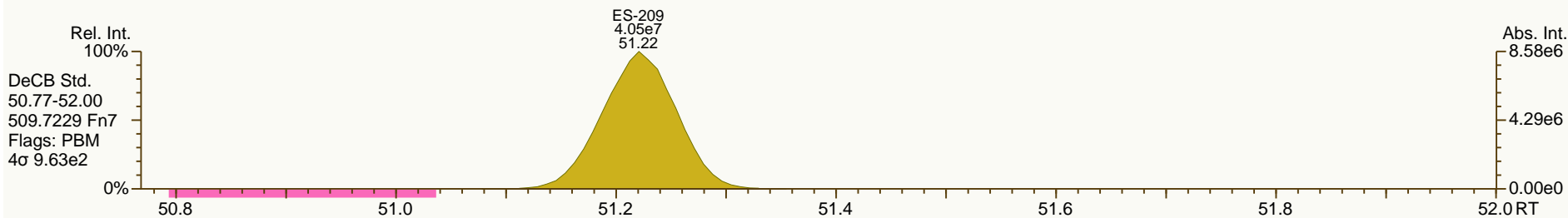
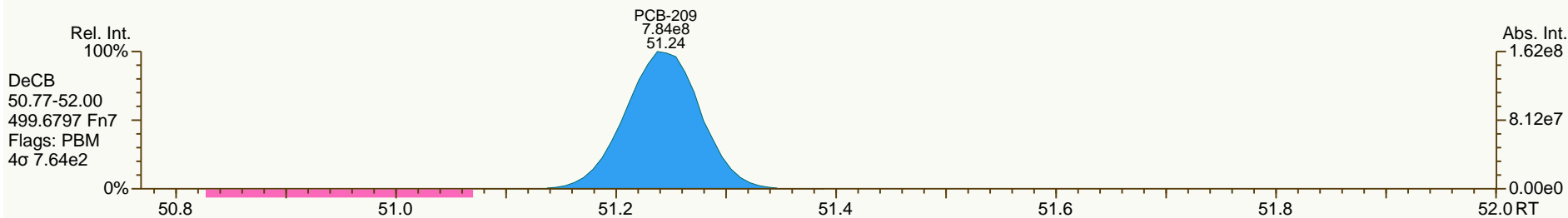
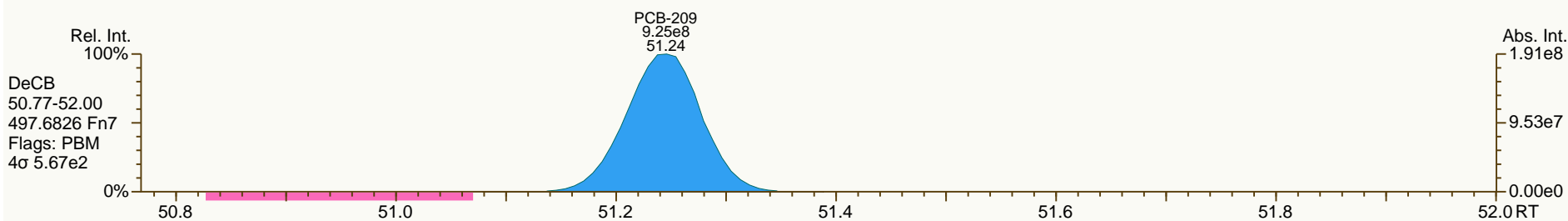
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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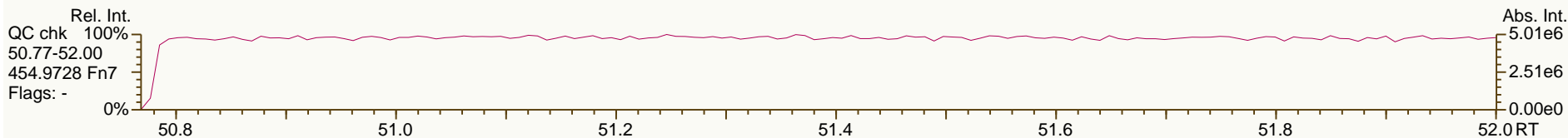
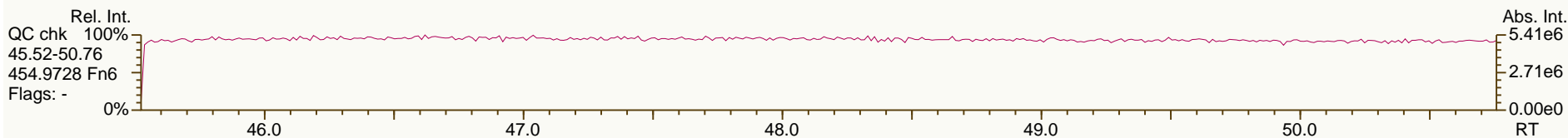
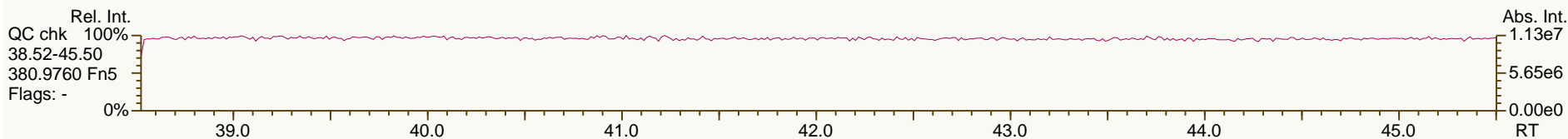
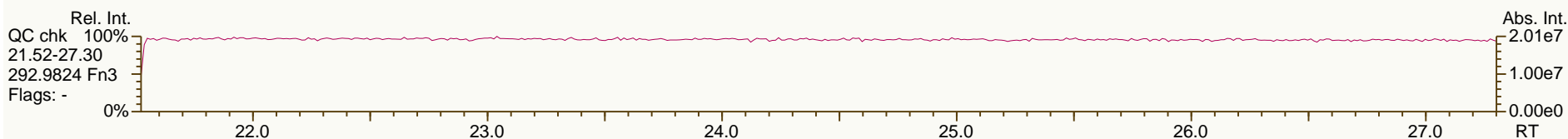
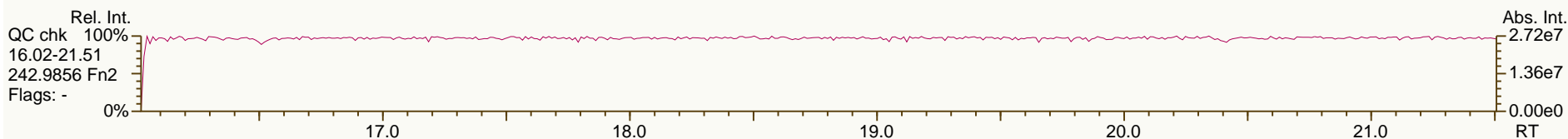
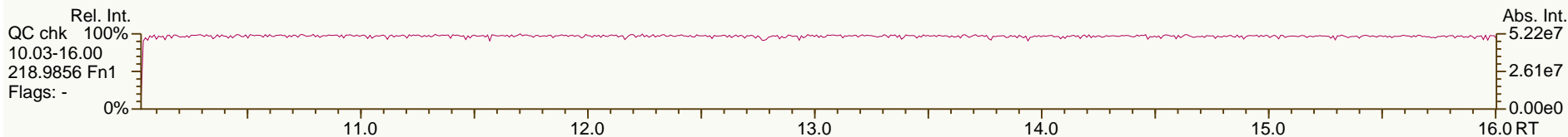




SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

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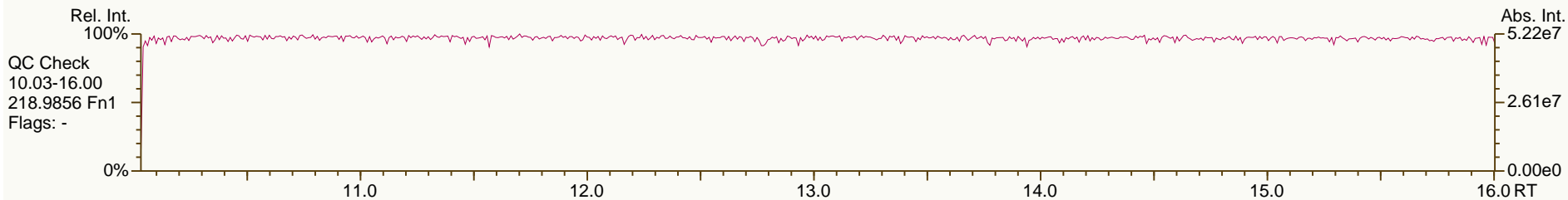
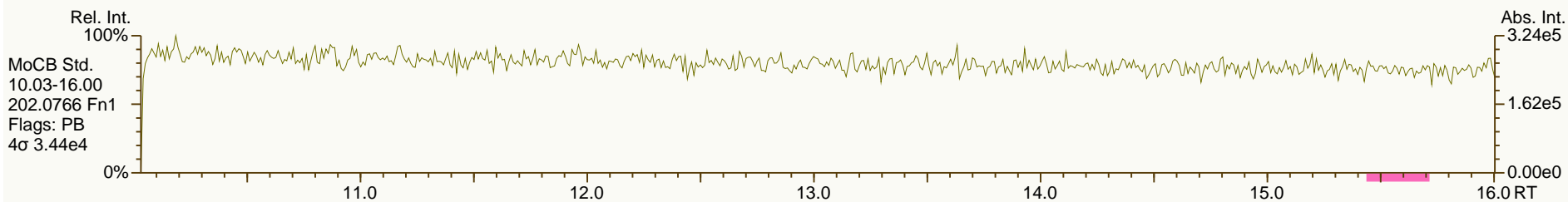
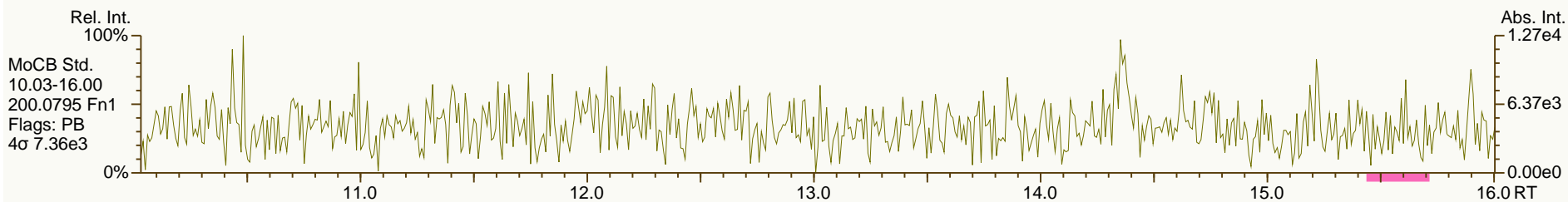
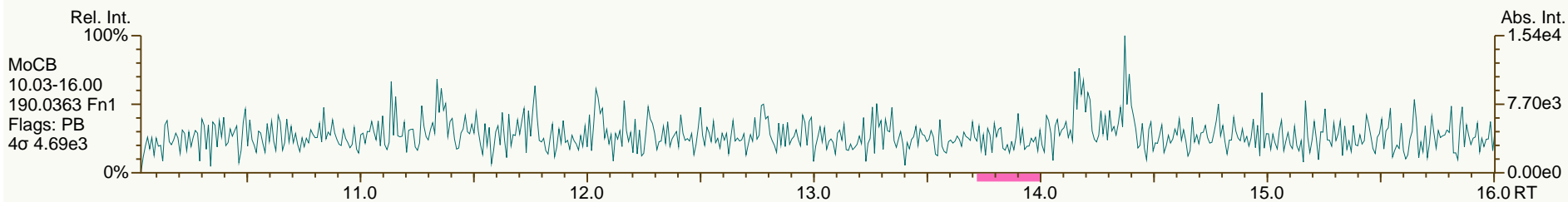
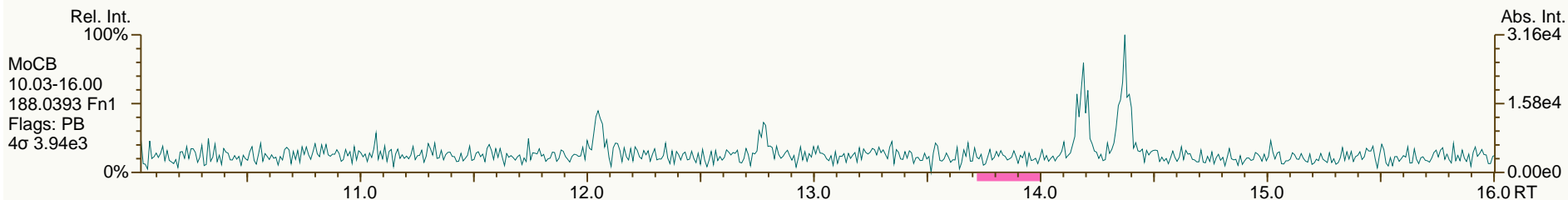
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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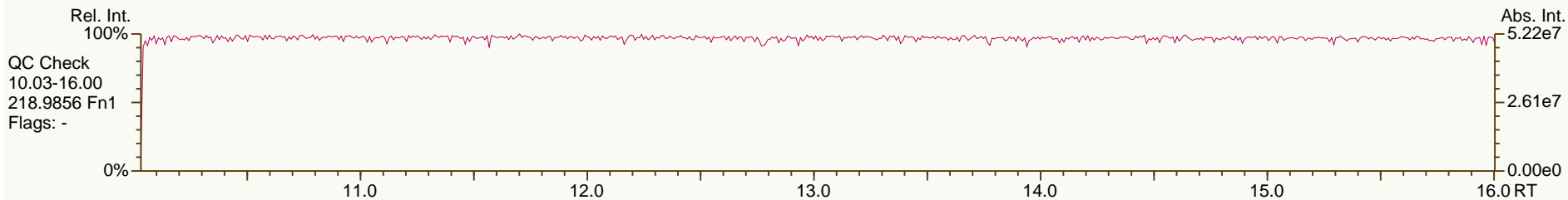
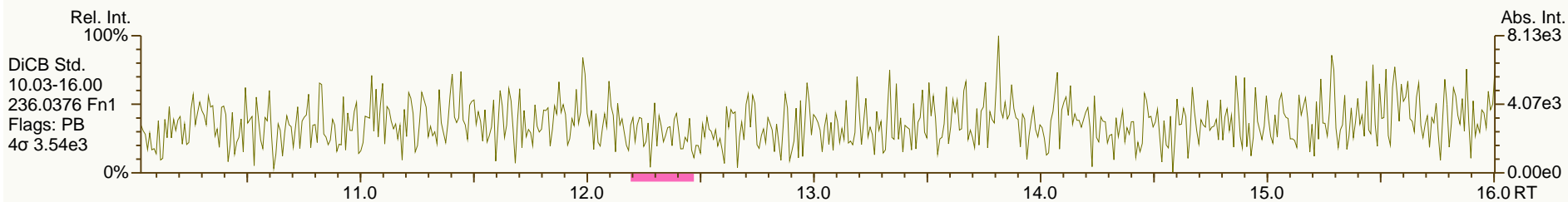
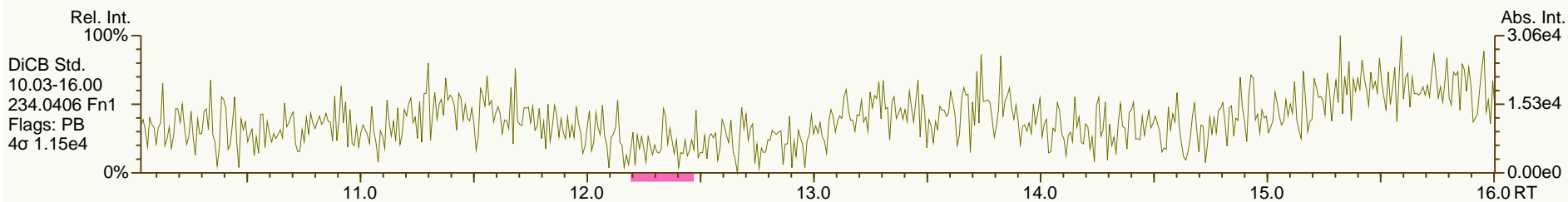
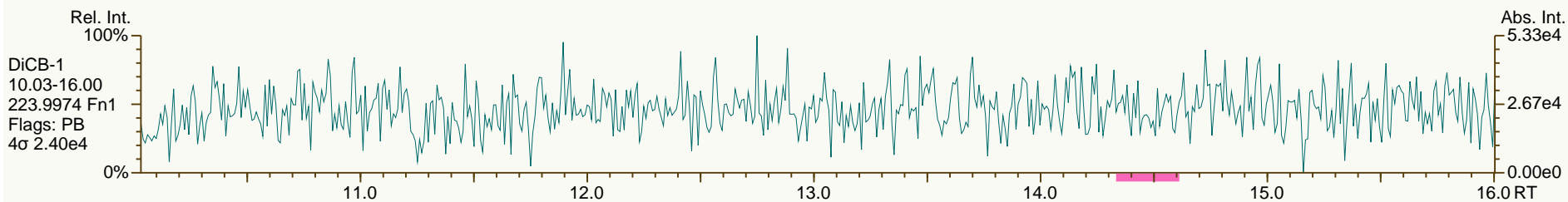
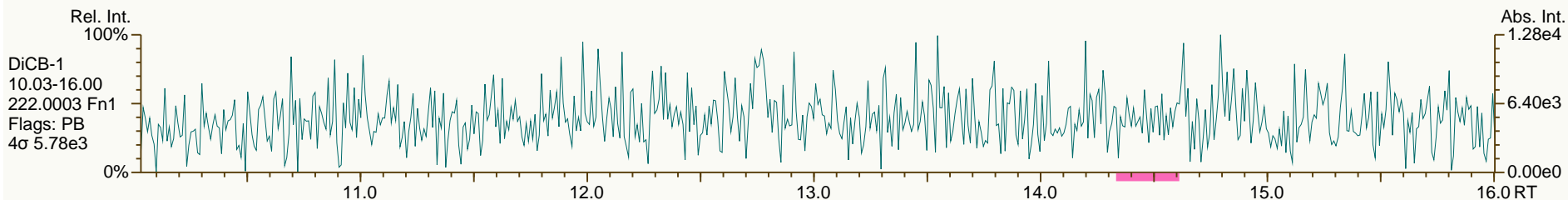
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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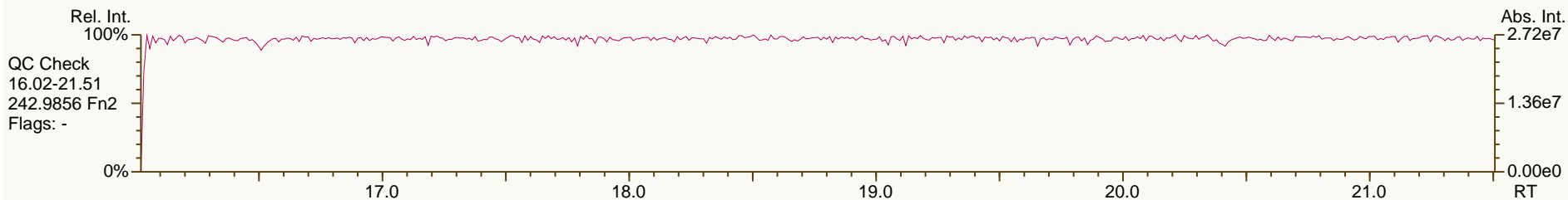
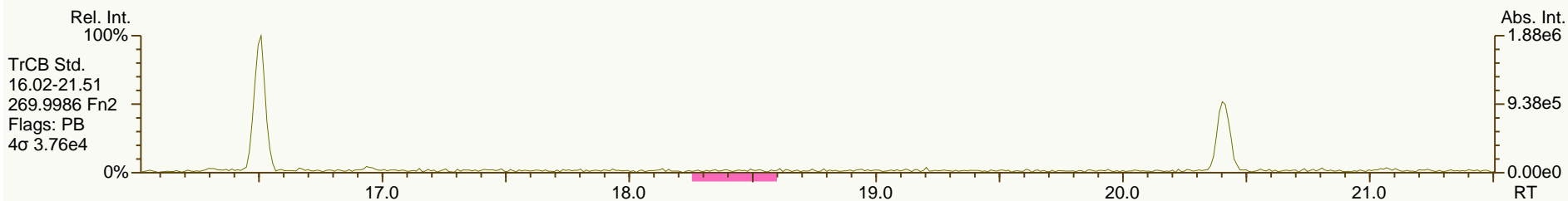
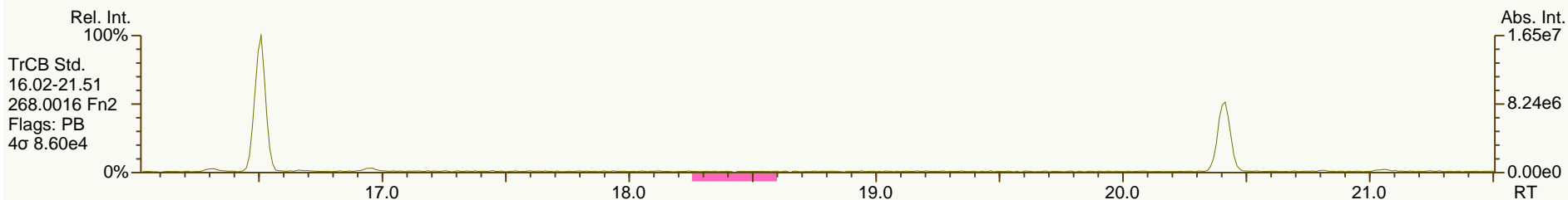
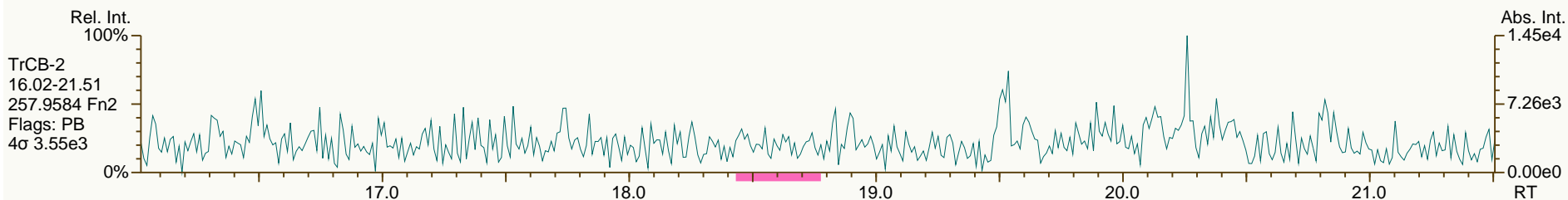
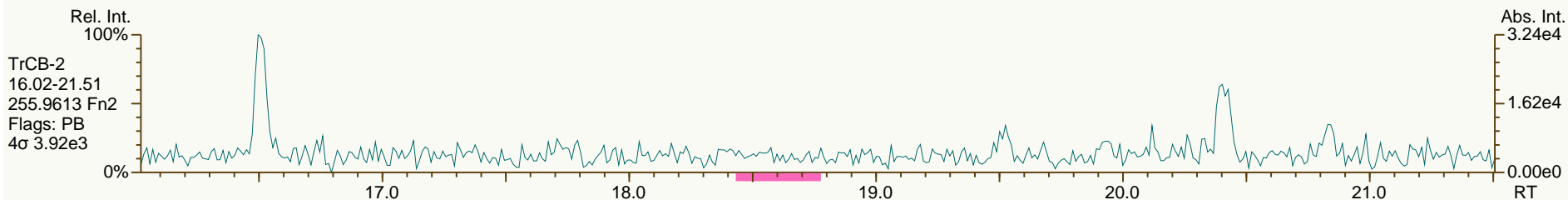
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

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SGS-AP ID: SBS\_131220\_PCB\_XB  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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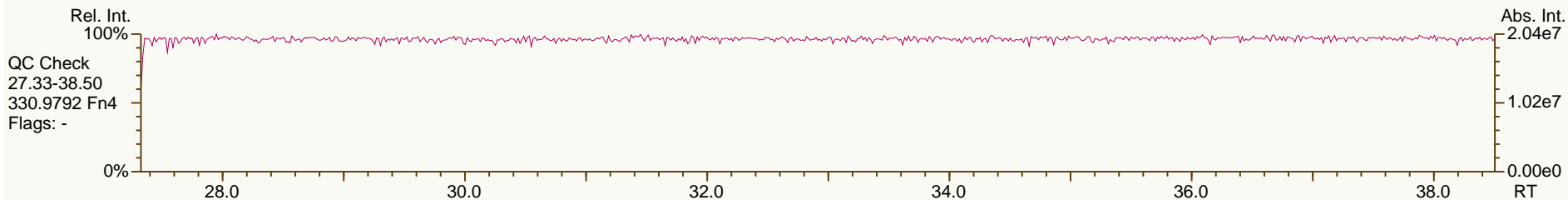
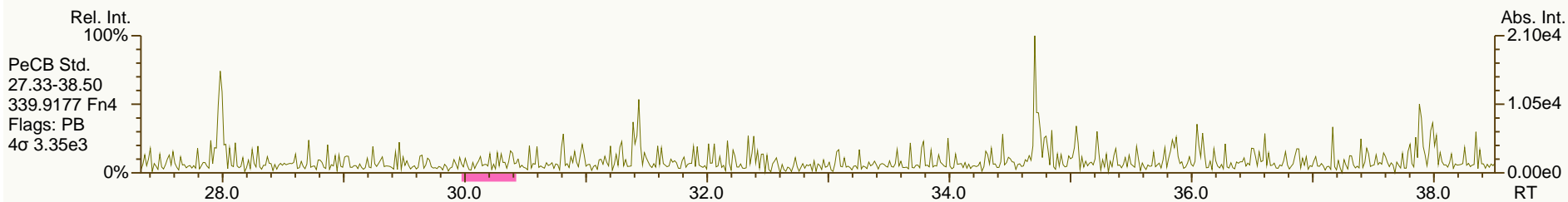
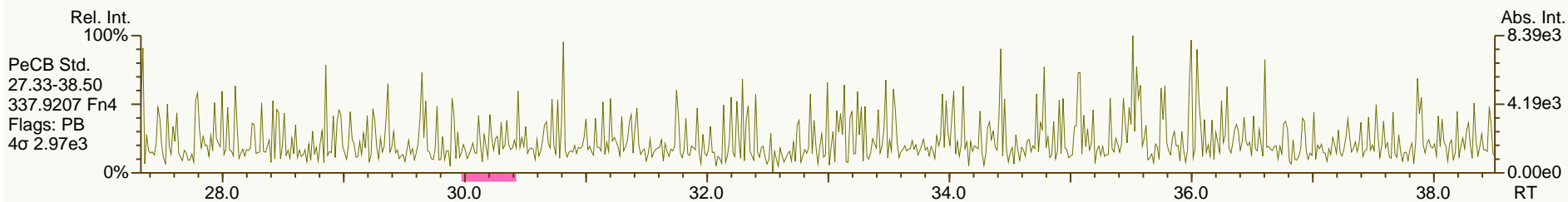
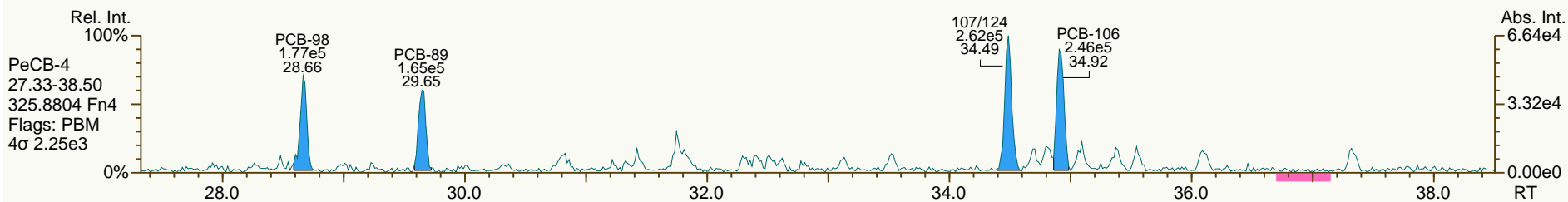
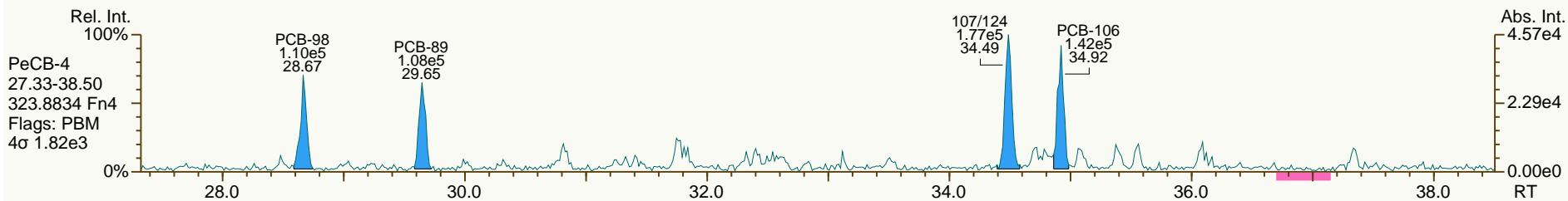
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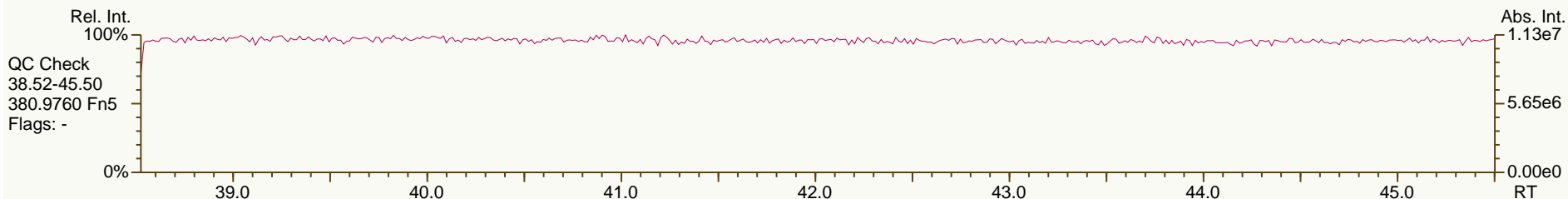
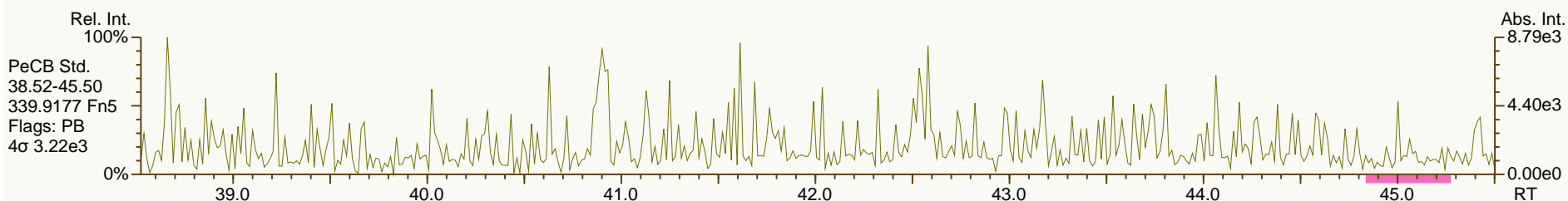
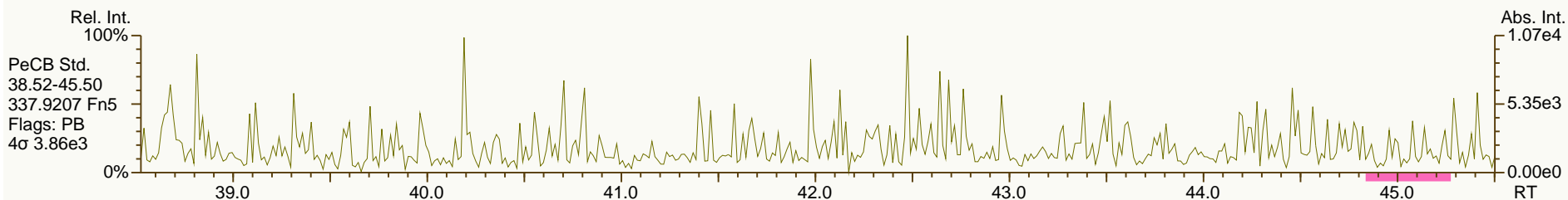
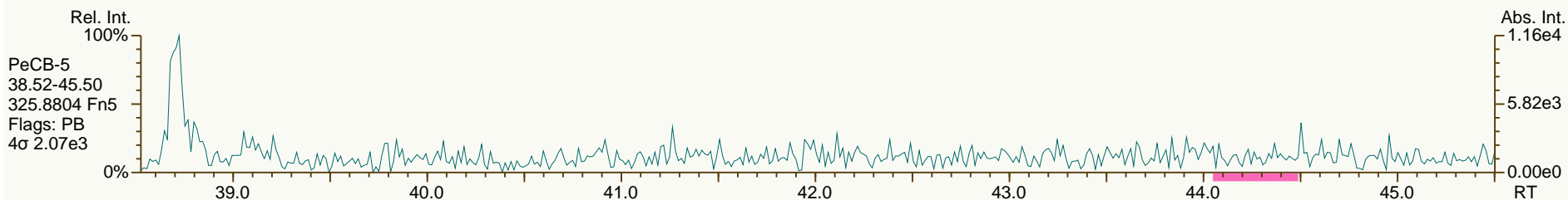
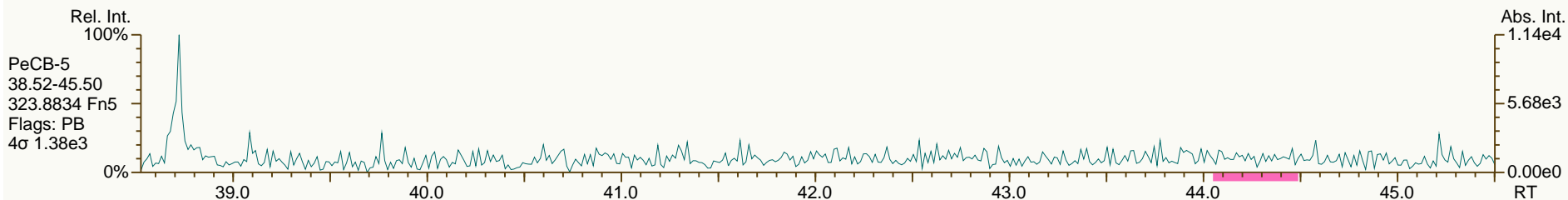
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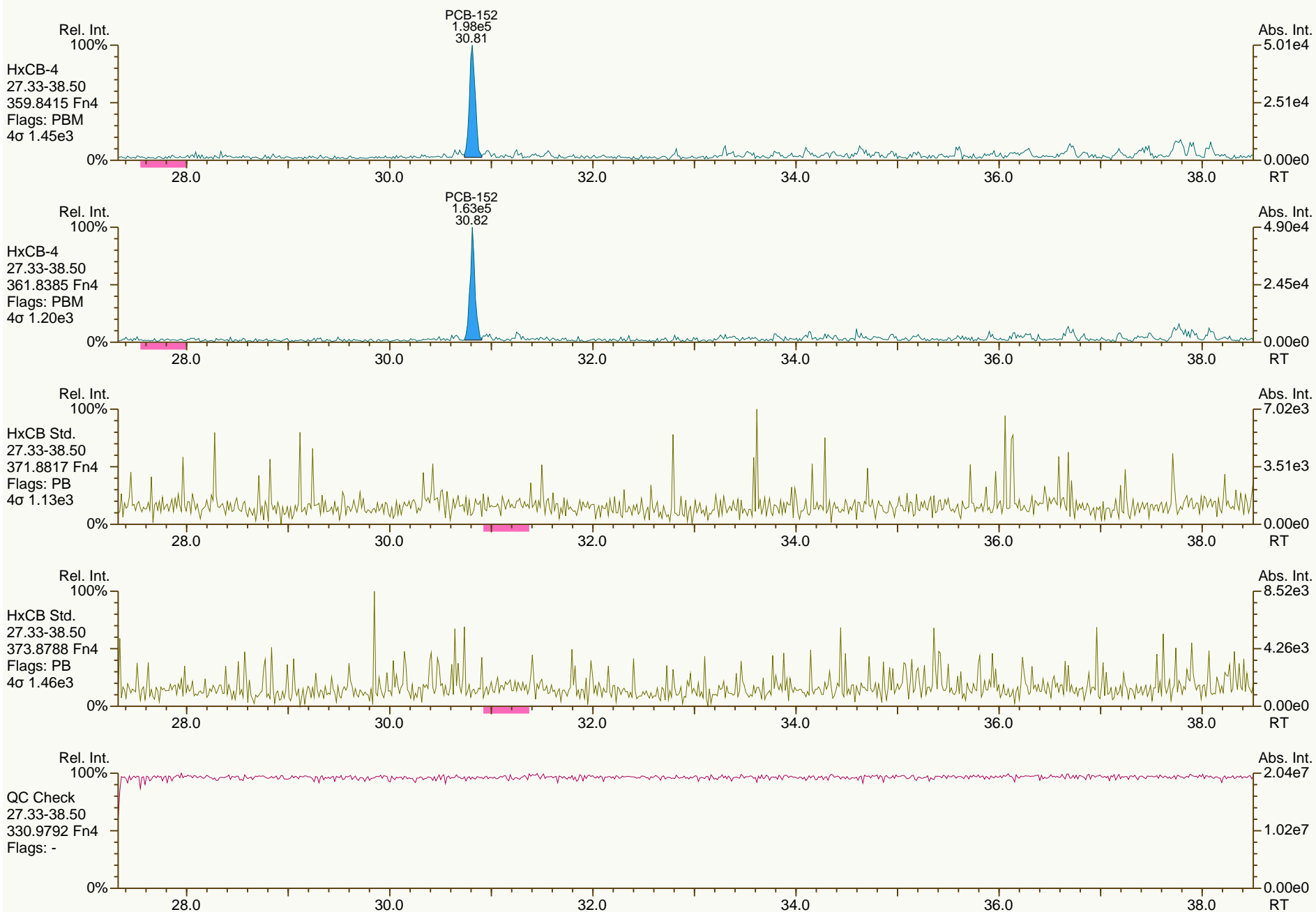
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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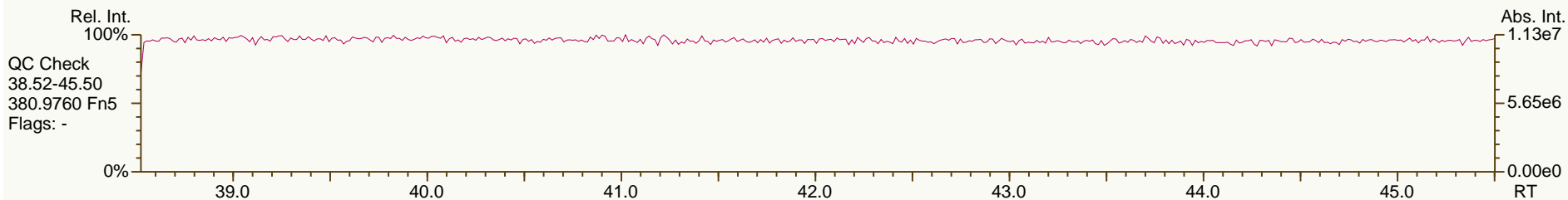
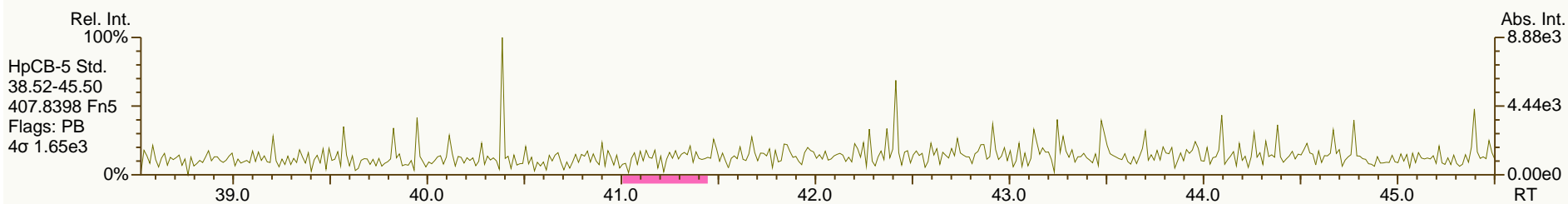
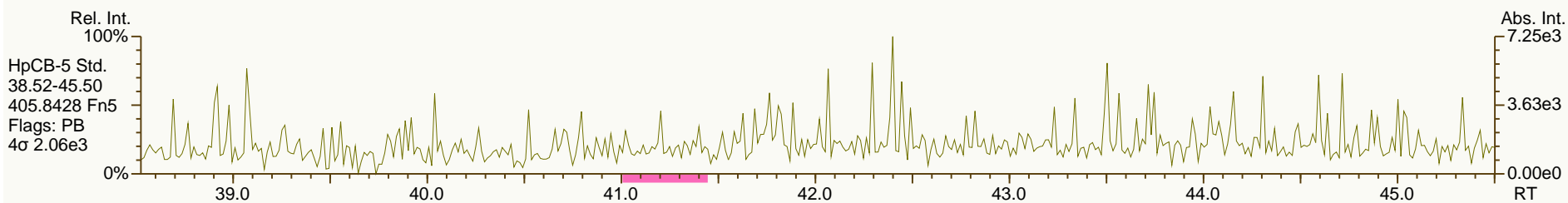
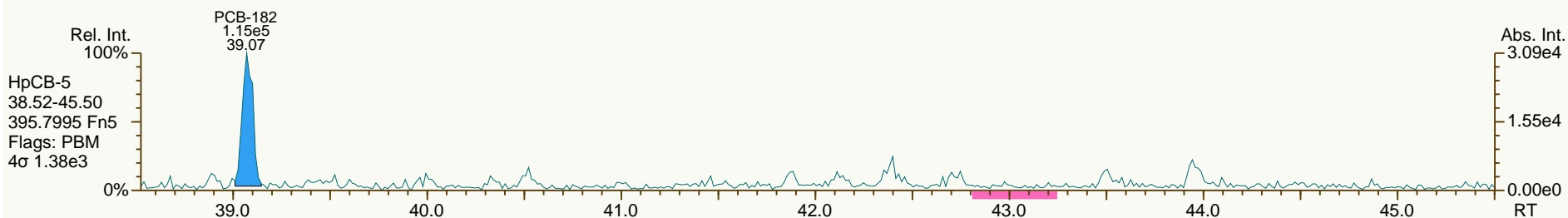
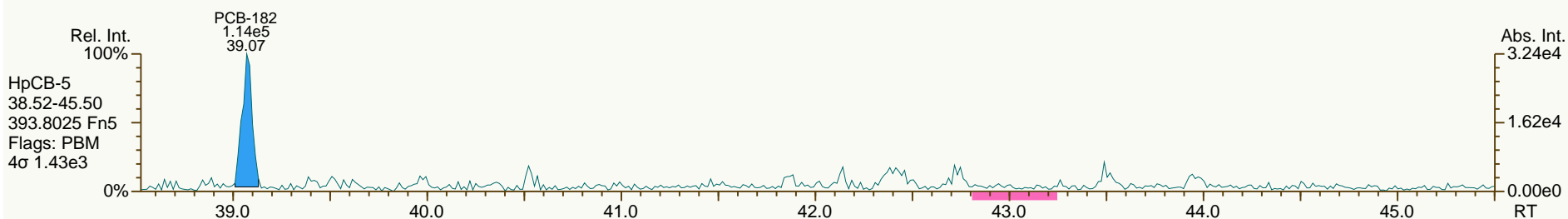
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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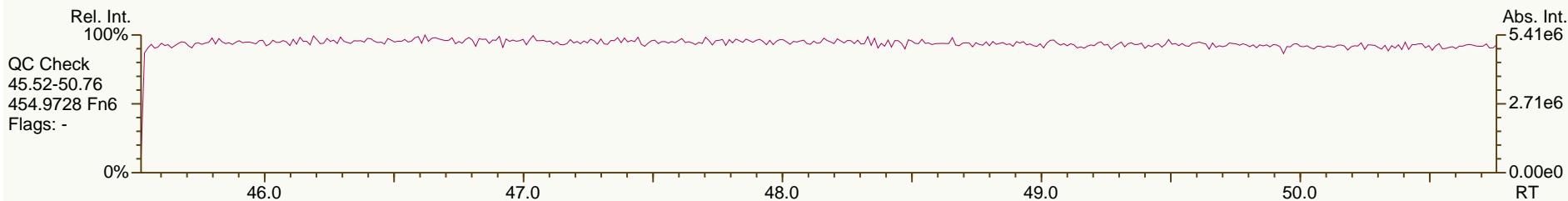
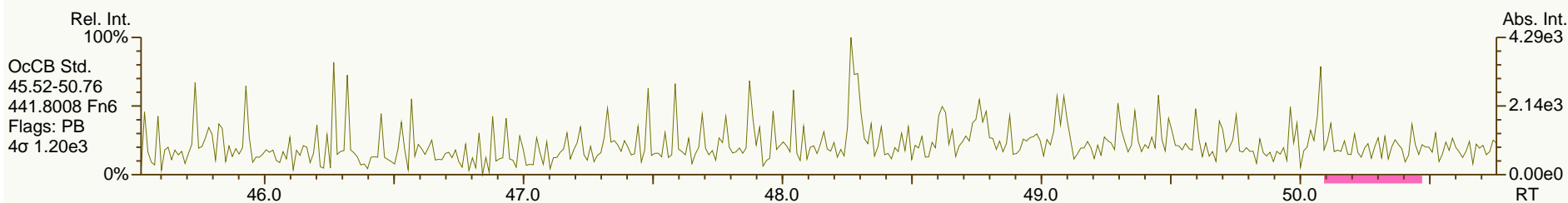
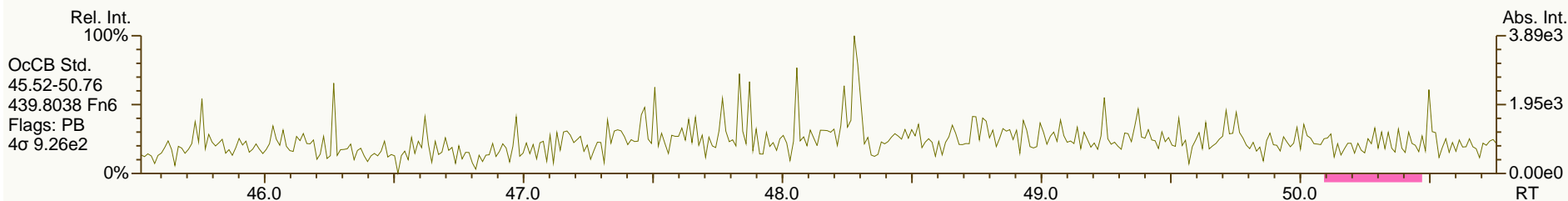
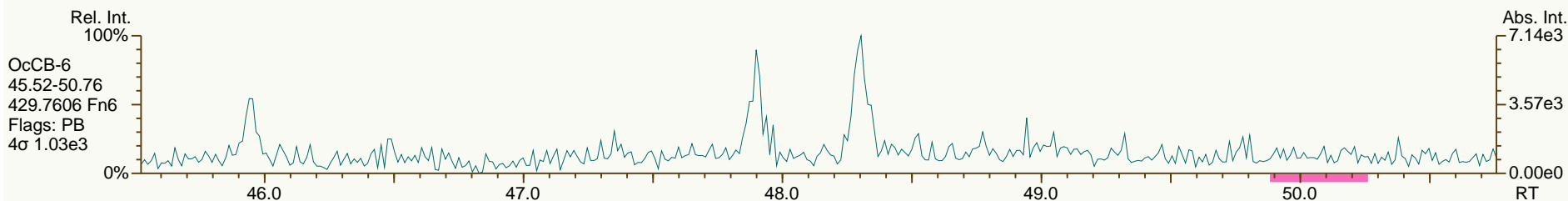
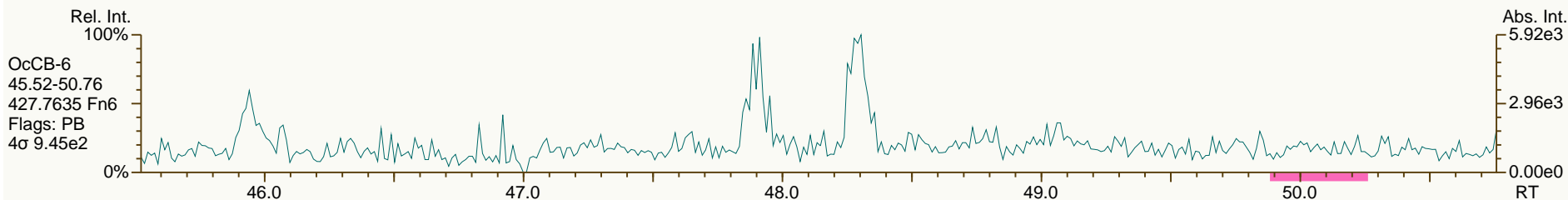
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User: LKB Datafile: 131220X07



SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

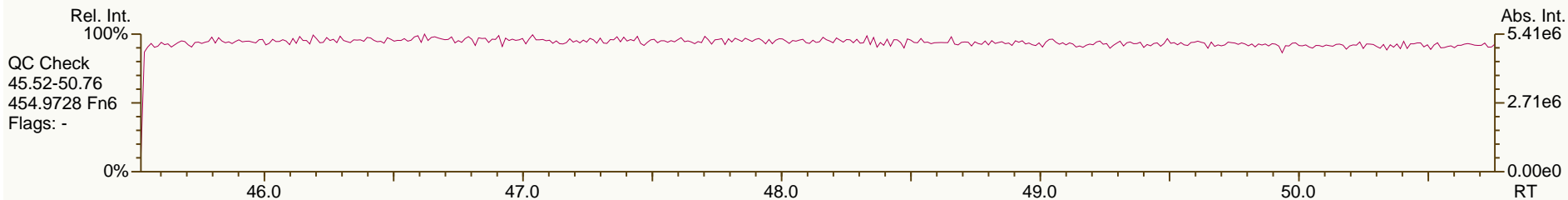
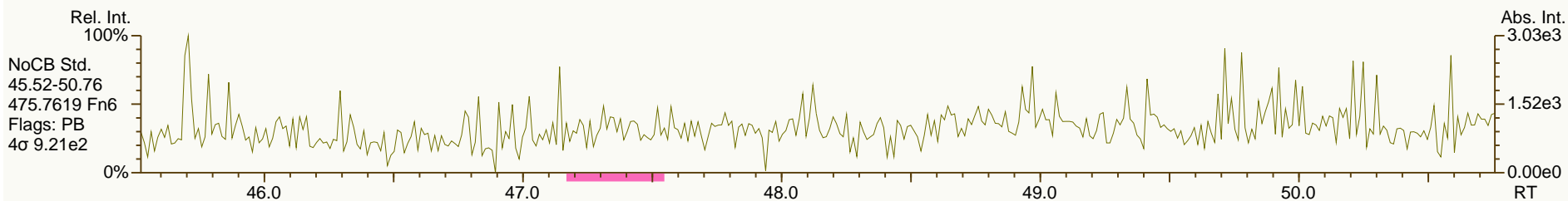
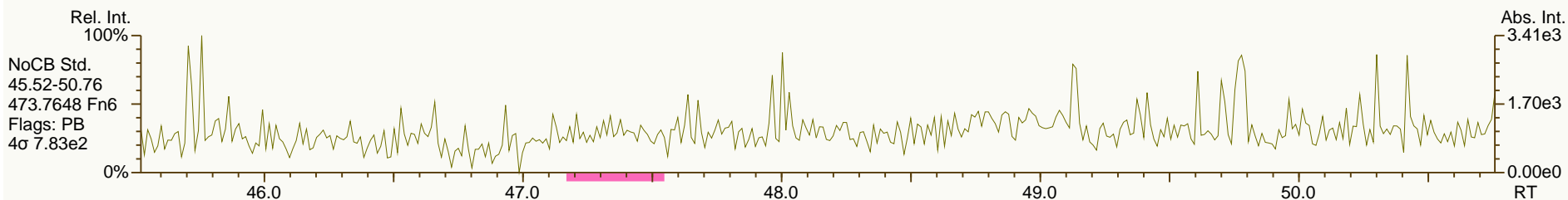
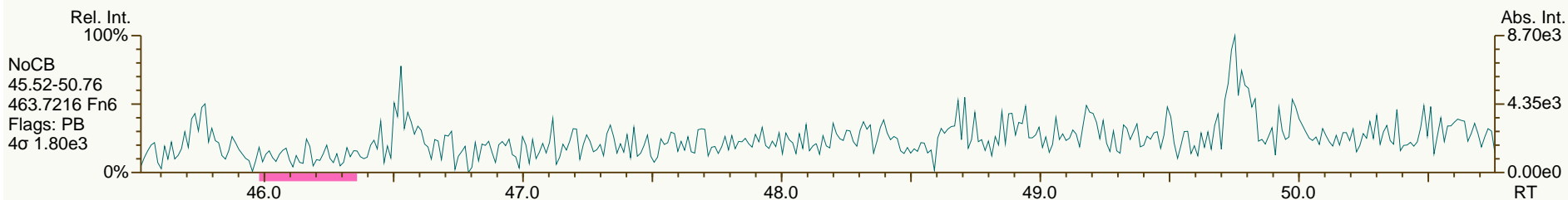
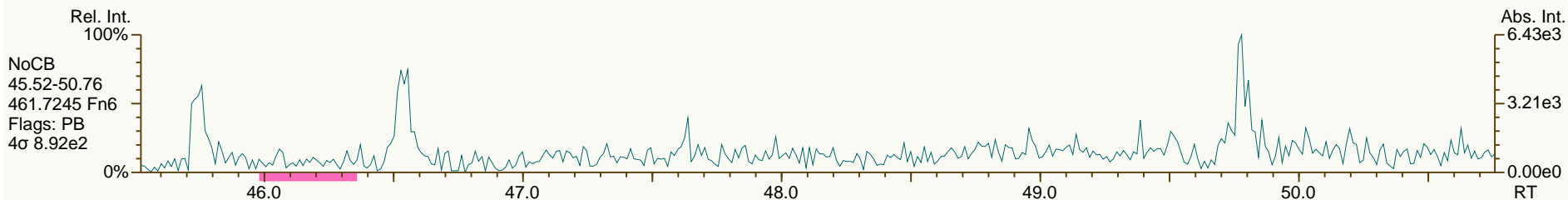
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

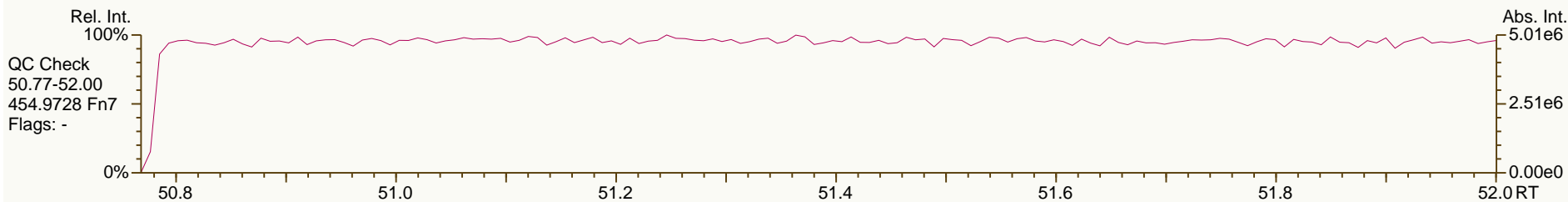
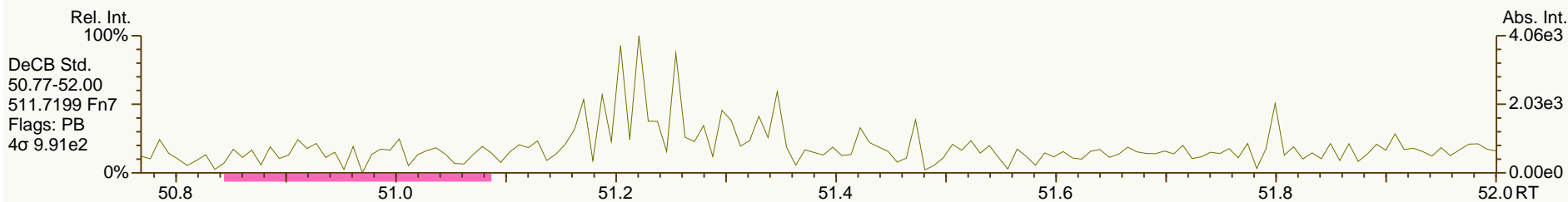
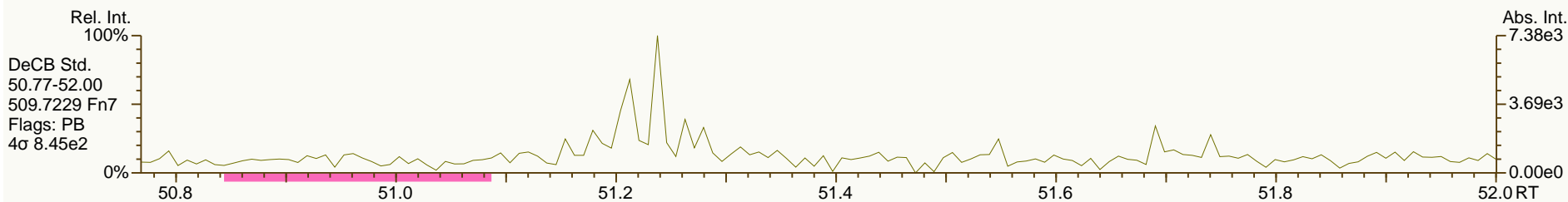
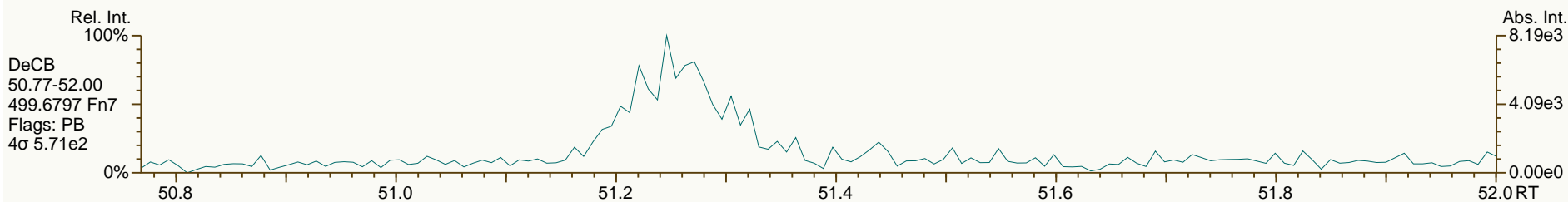
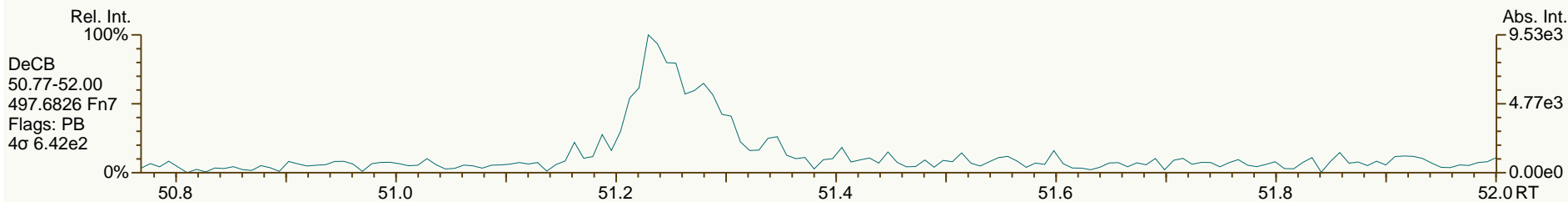
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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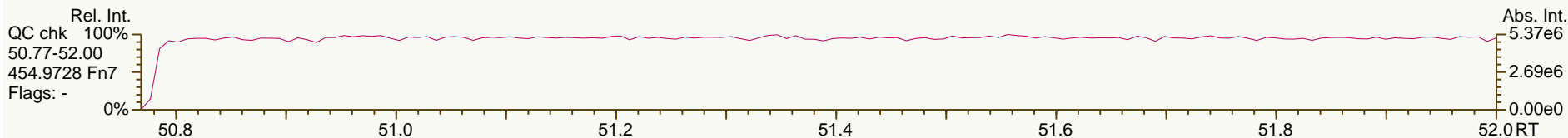
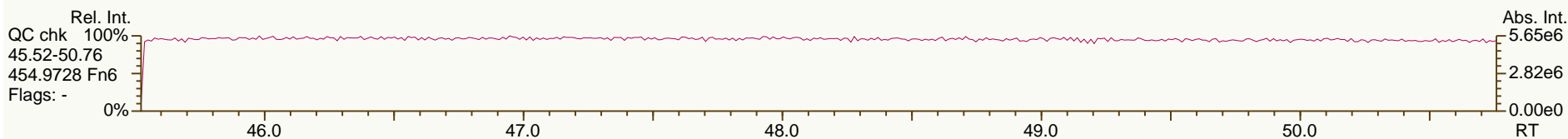
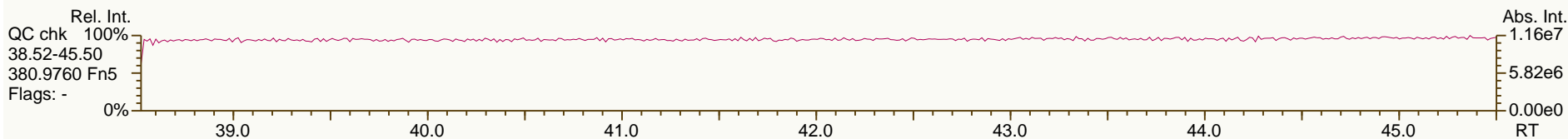
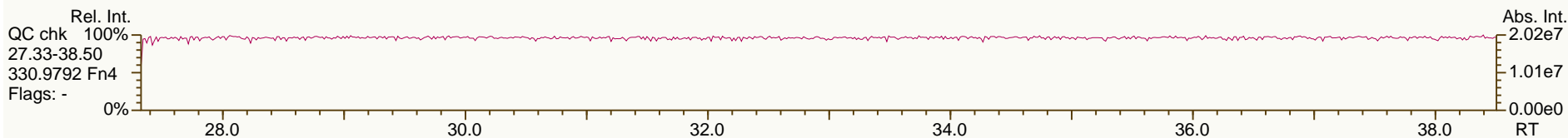
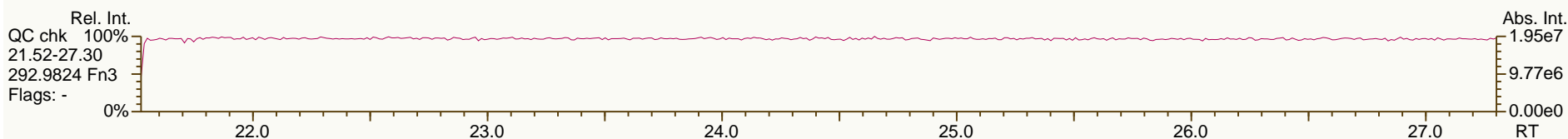
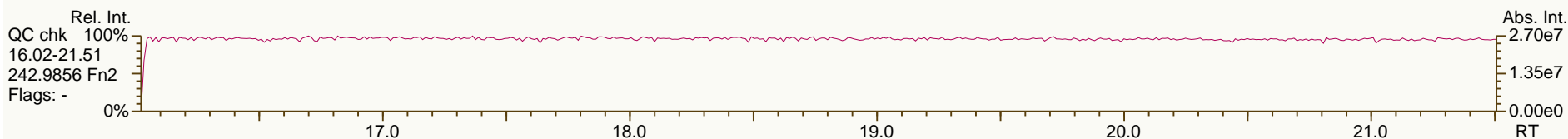
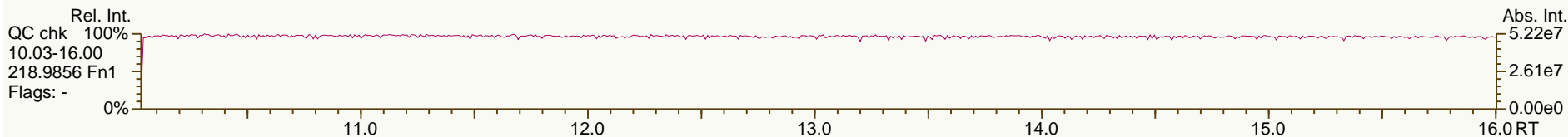
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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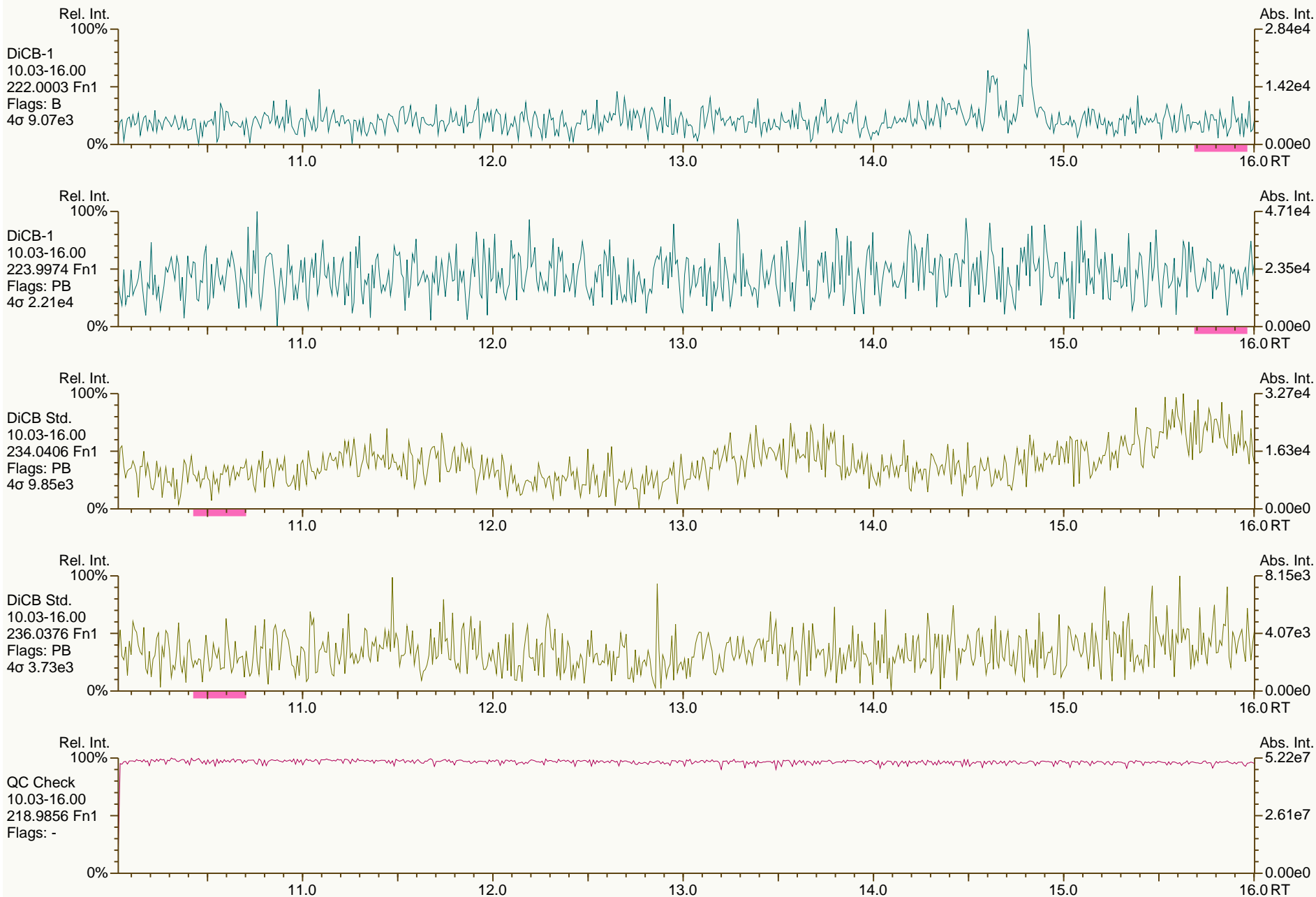
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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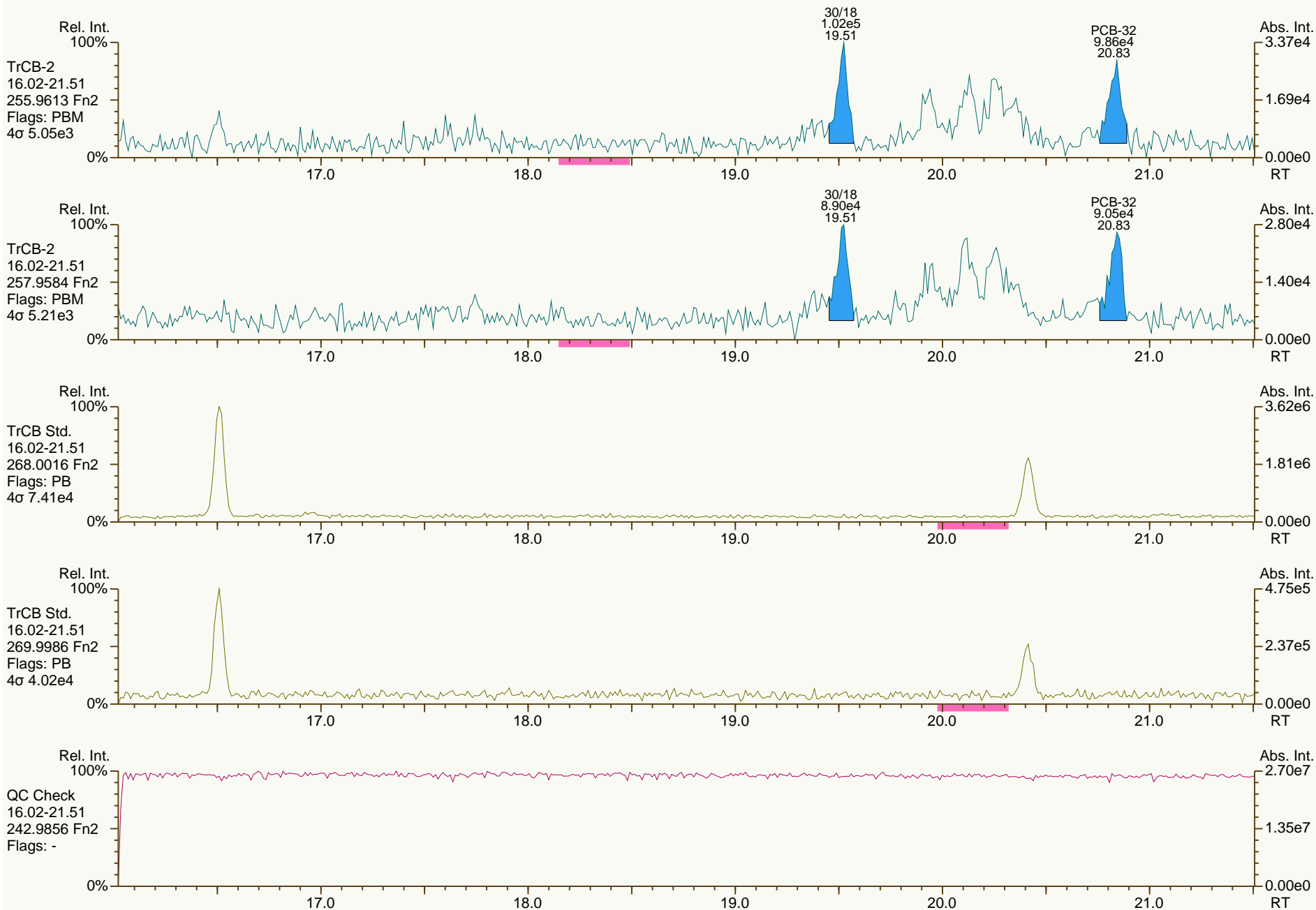
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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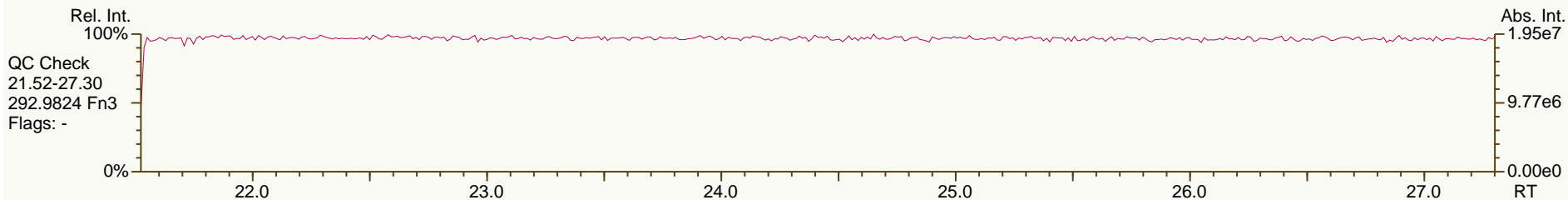
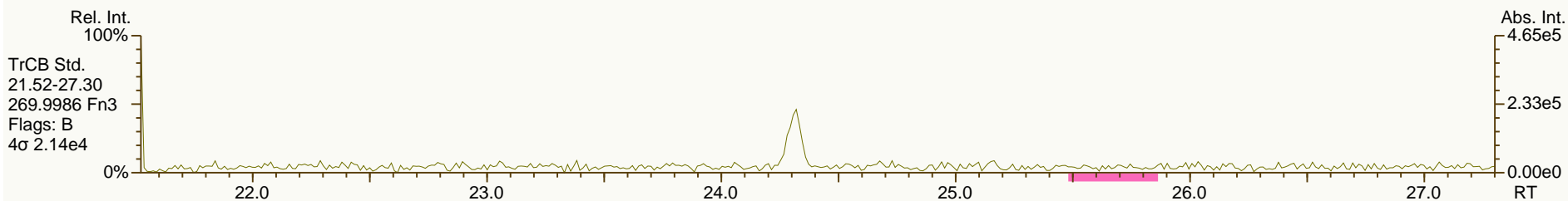
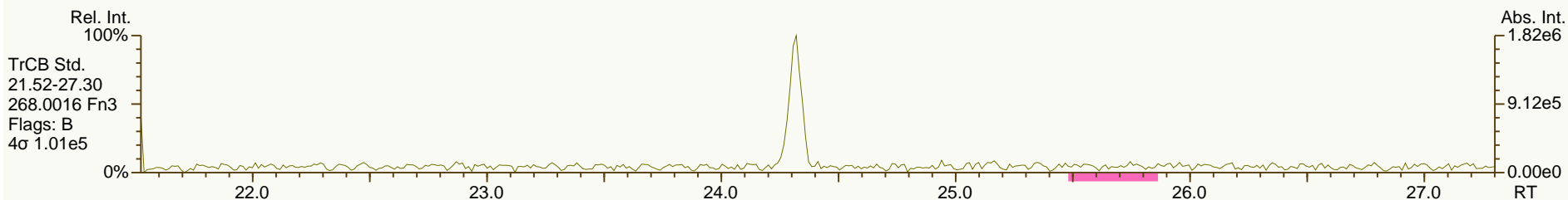
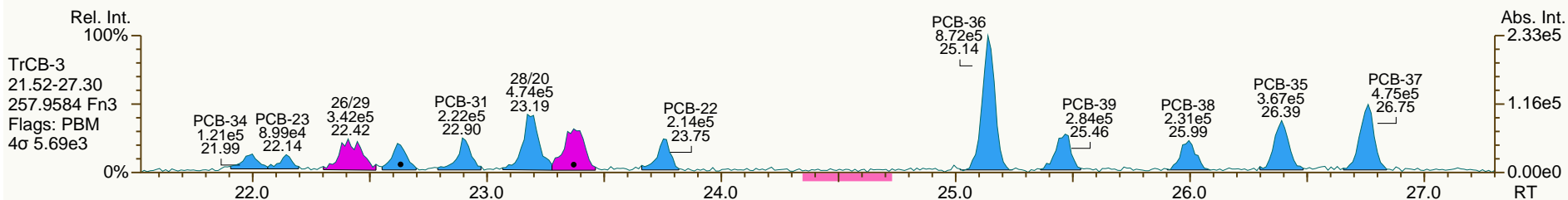
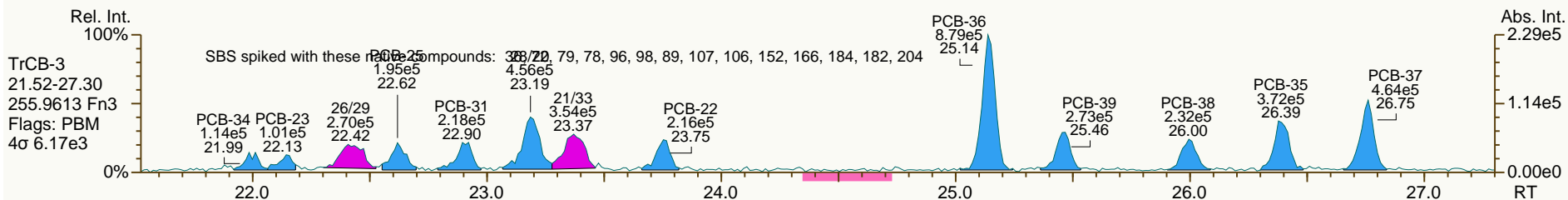
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
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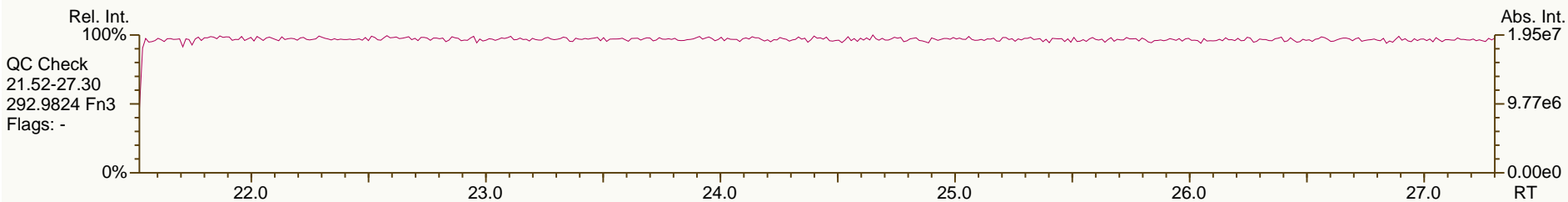
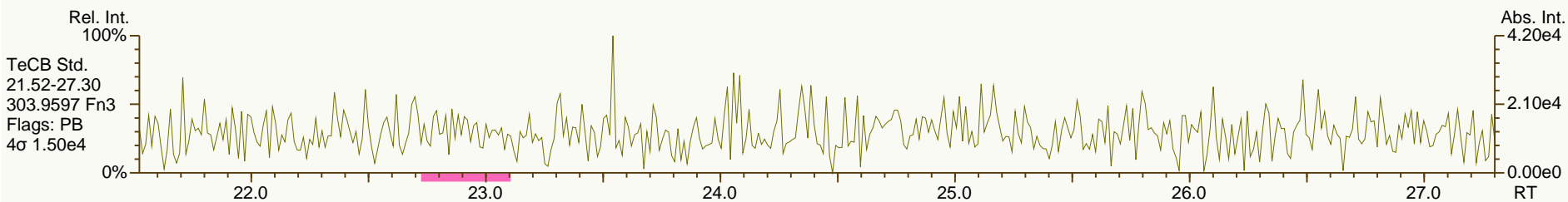
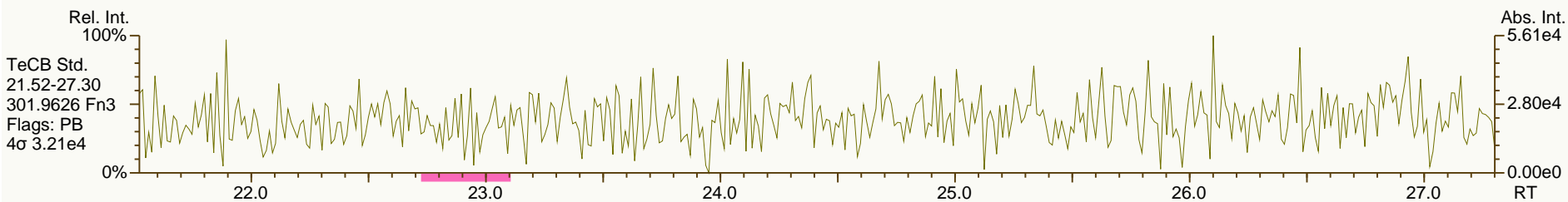
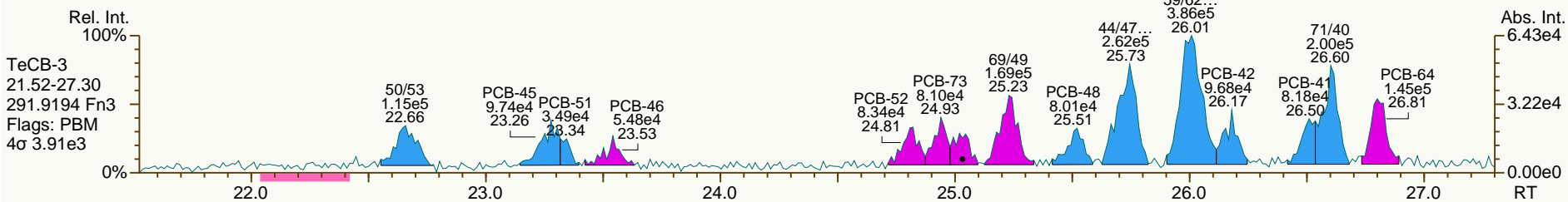
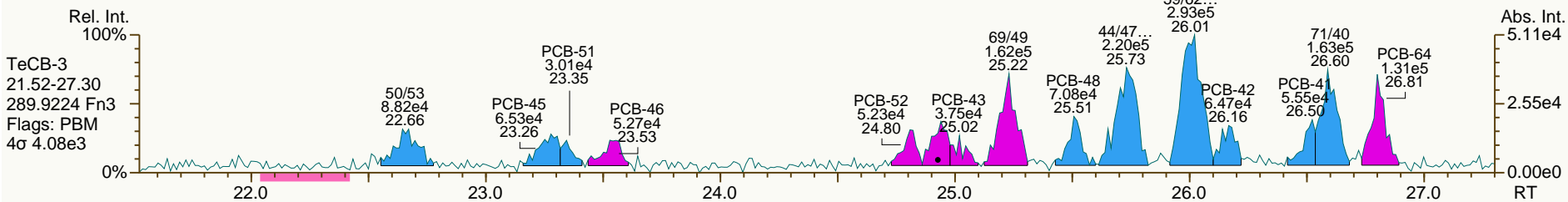
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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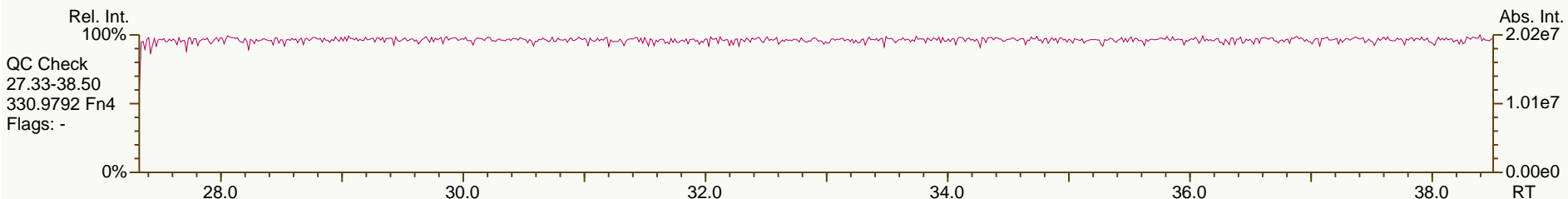
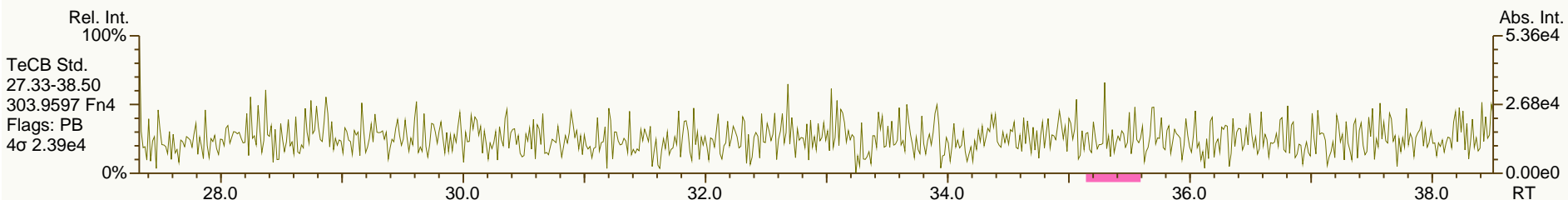
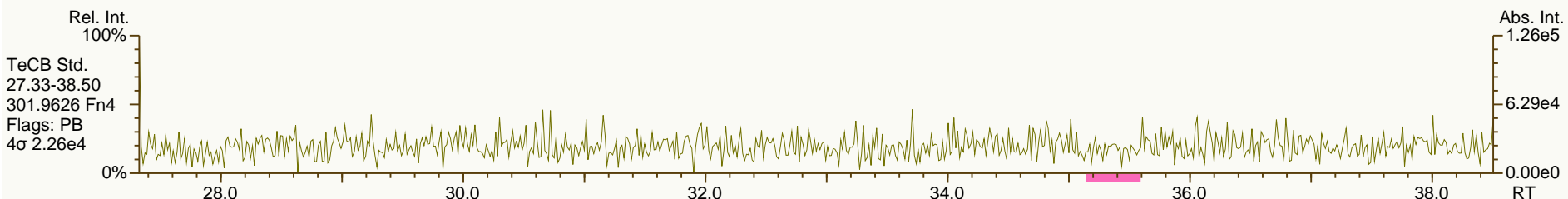
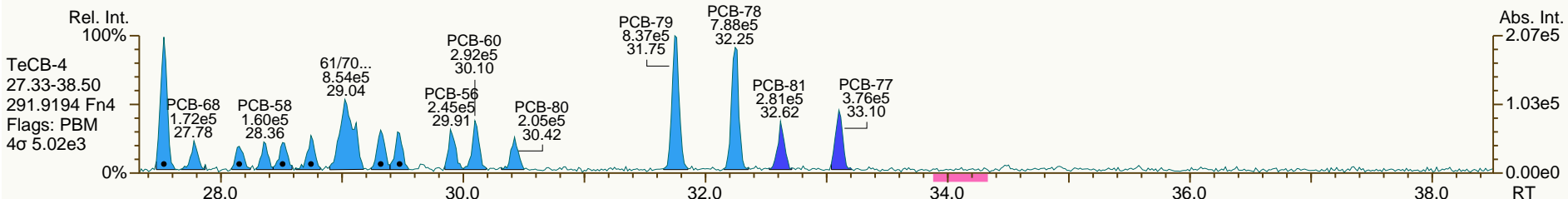
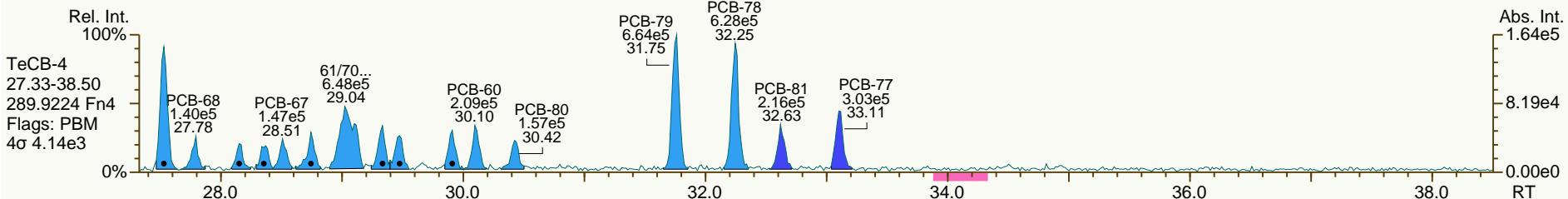
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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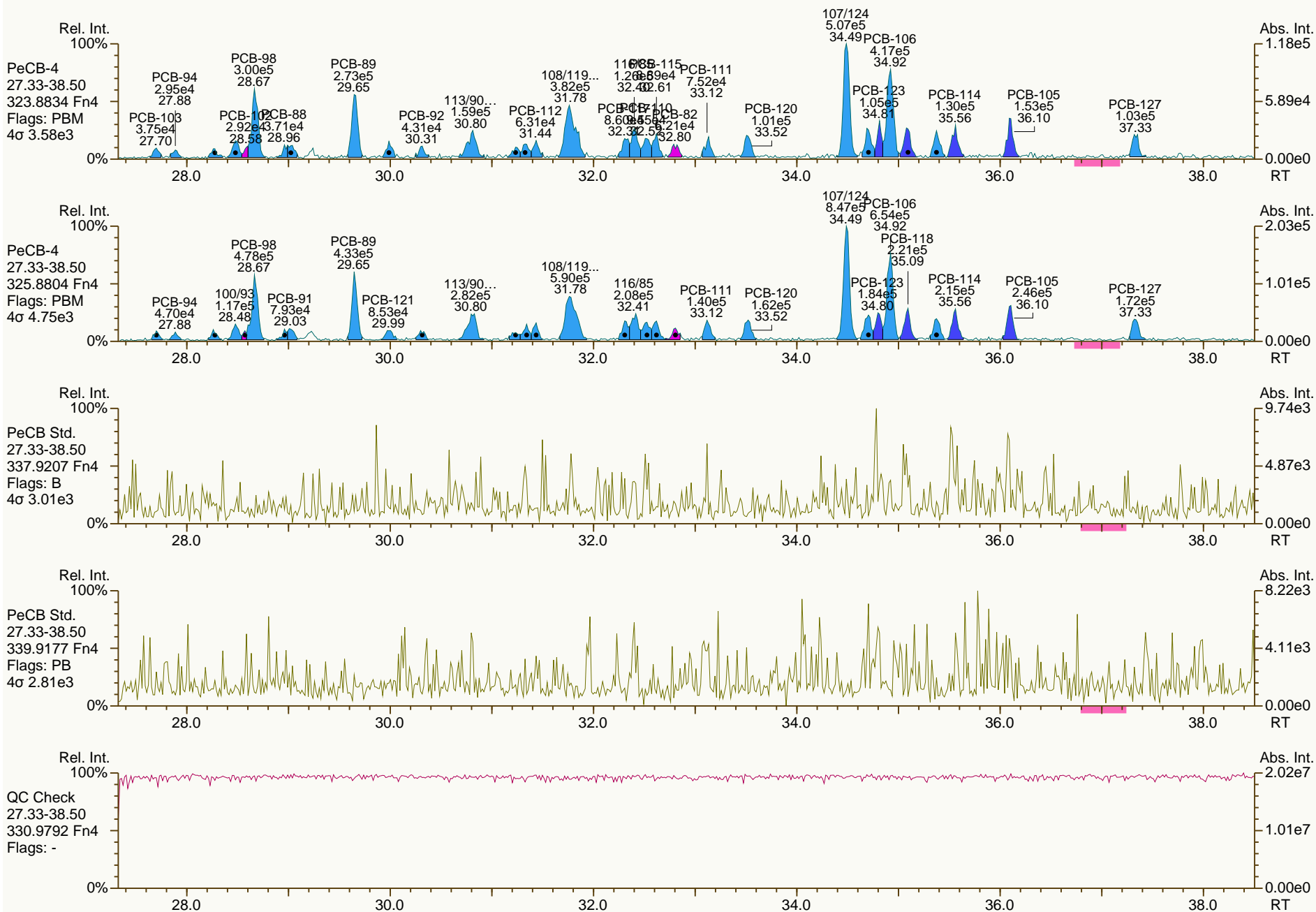
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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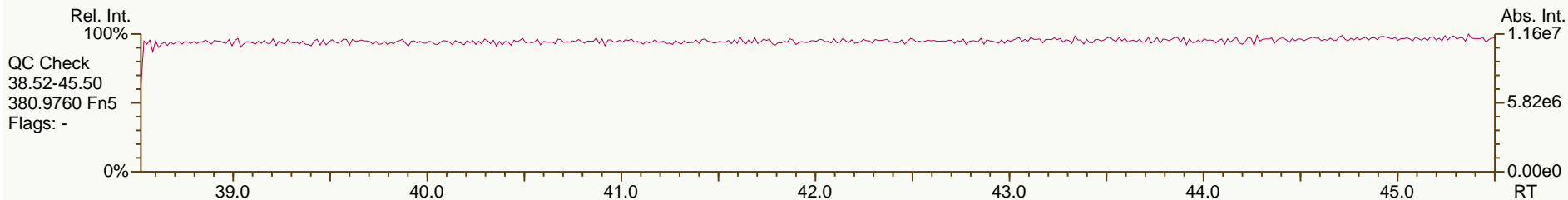
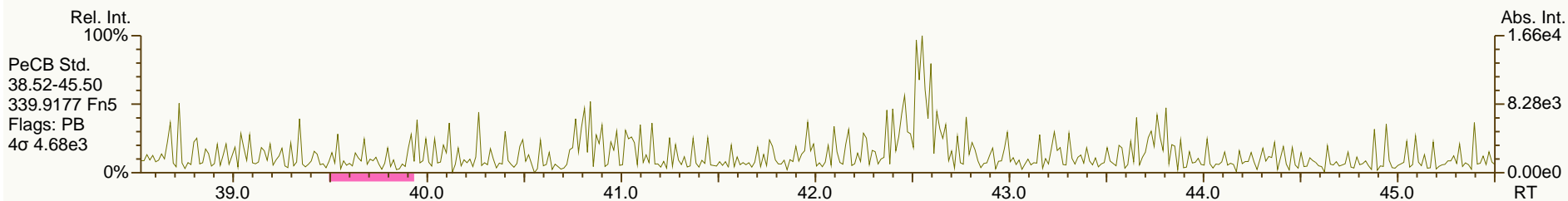
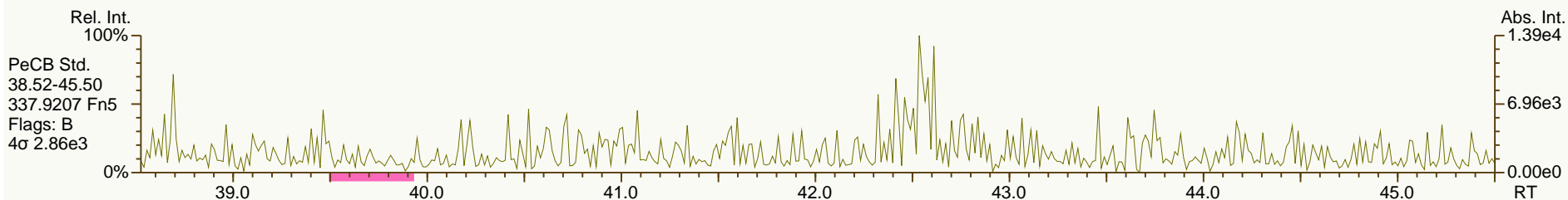
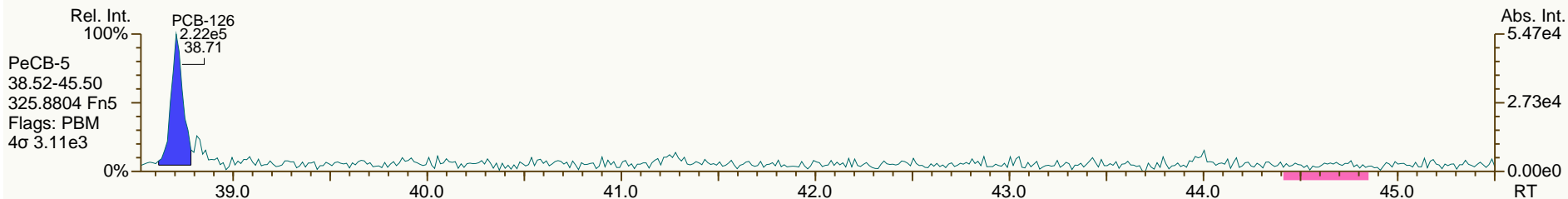
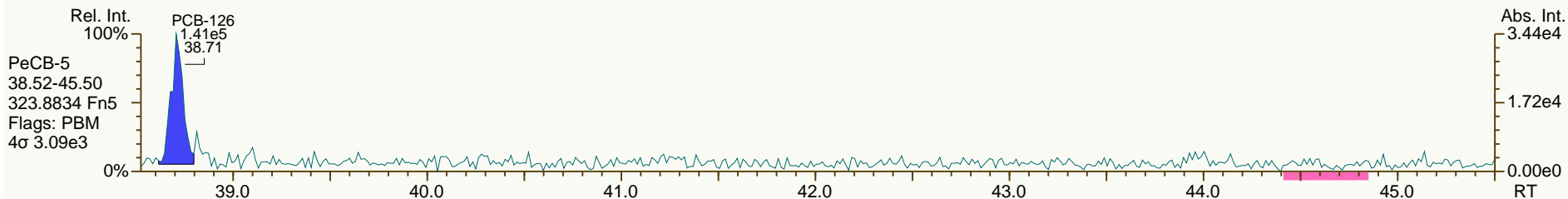




SGS-AP ID: SBS\_131220\_PCB\_XC  
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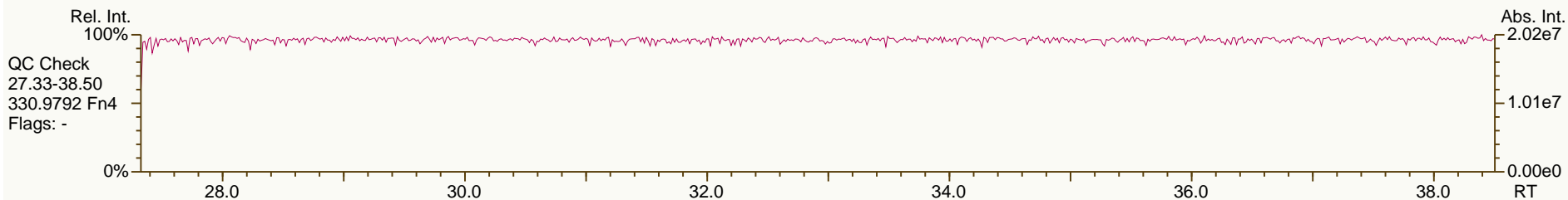
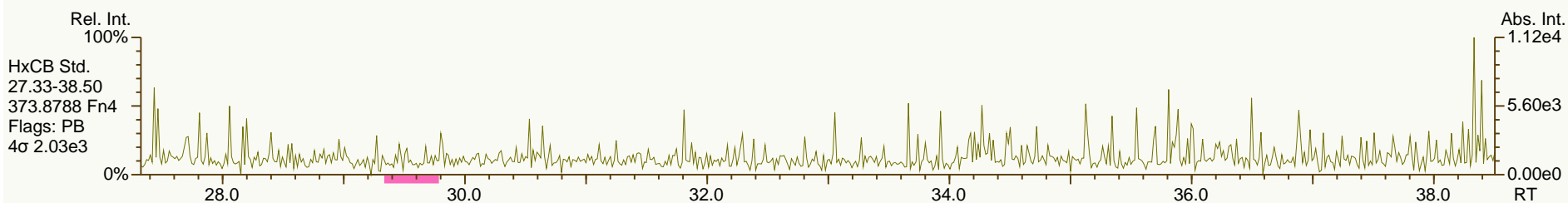
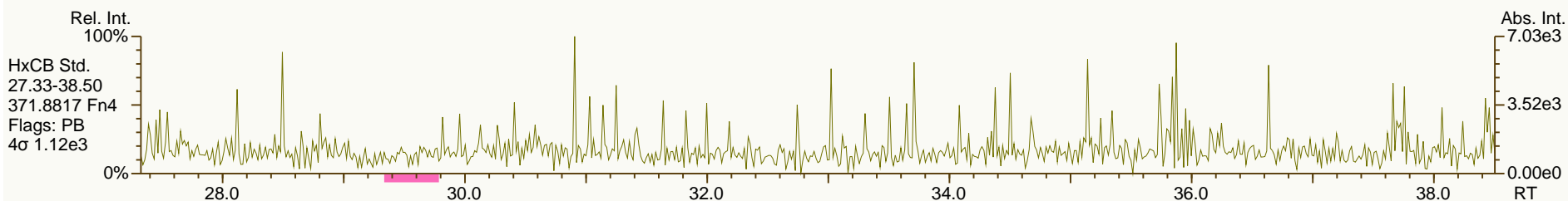
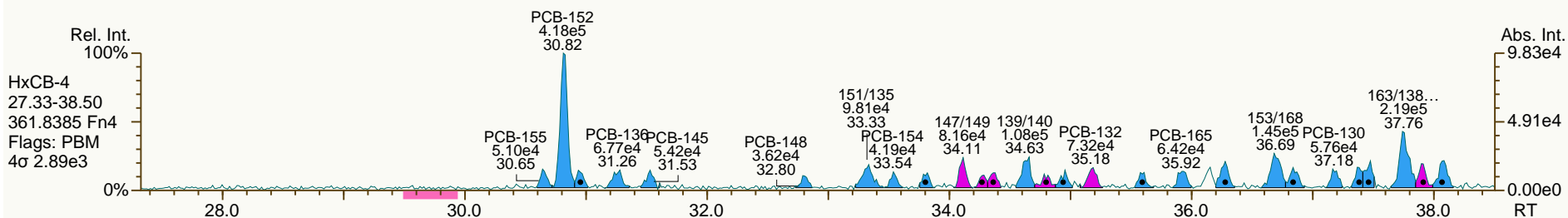
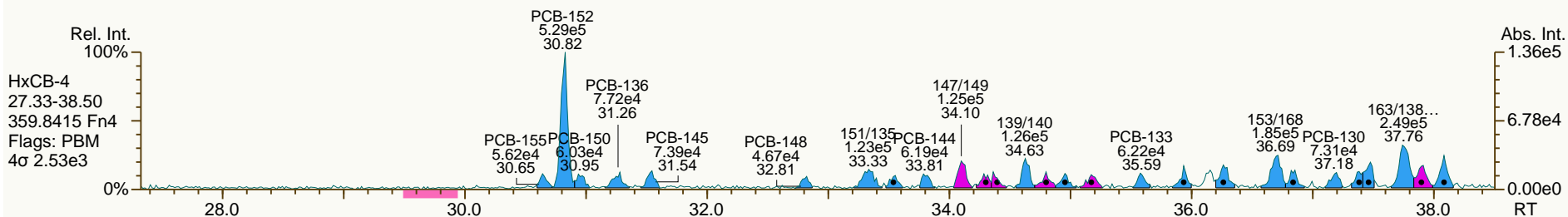
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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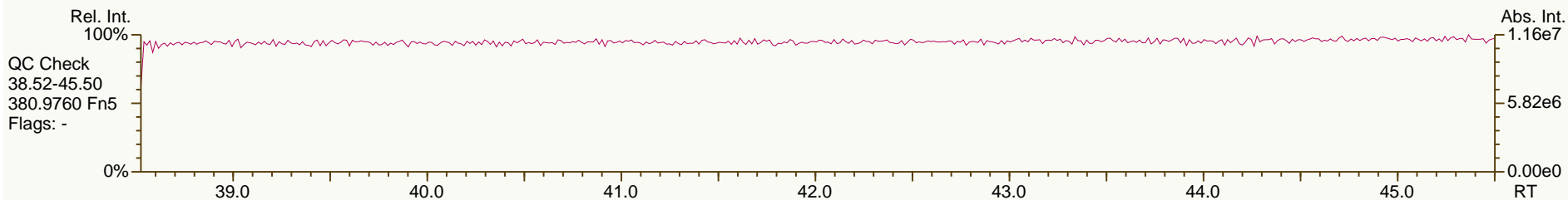
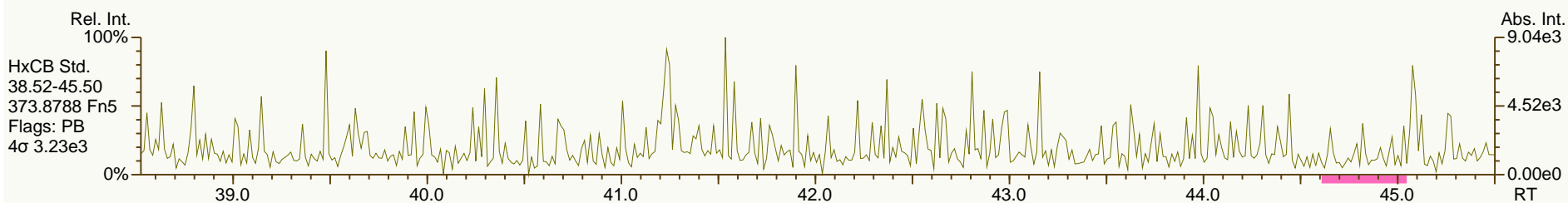
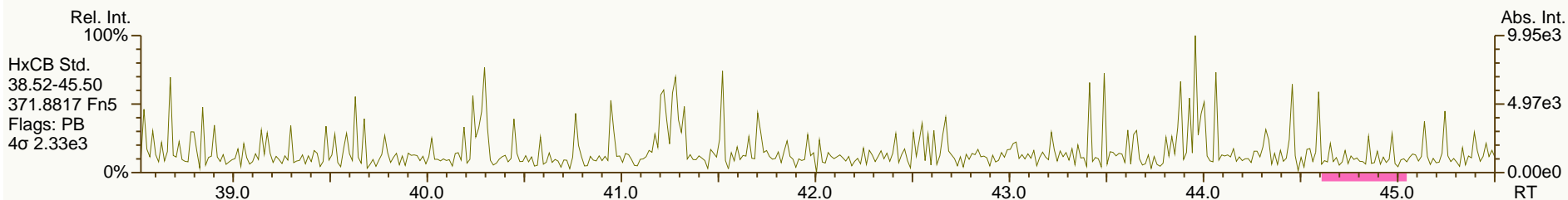
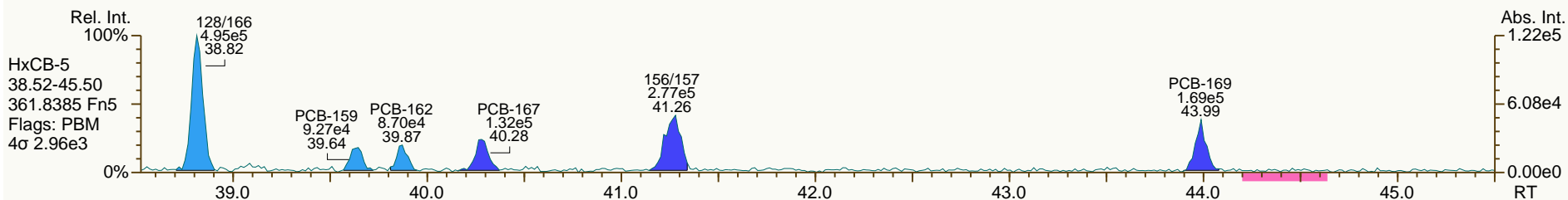
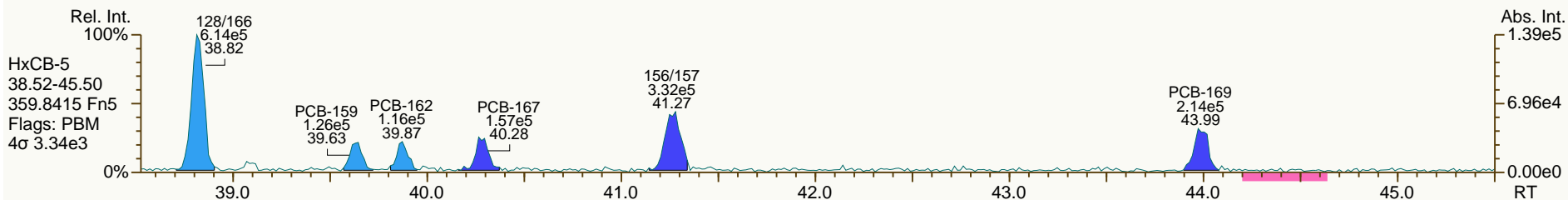
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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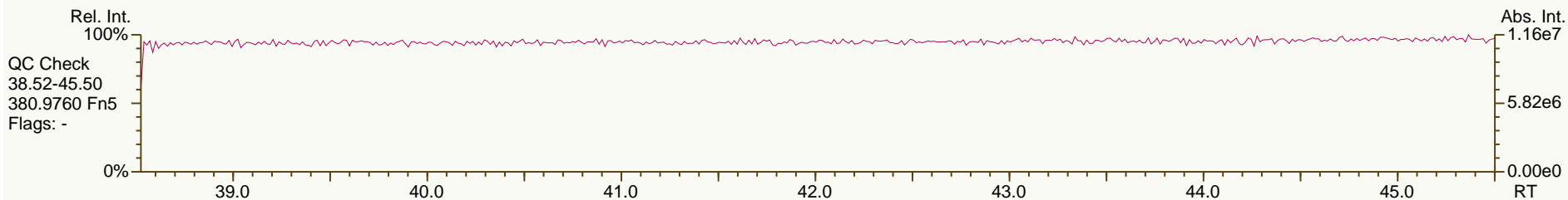
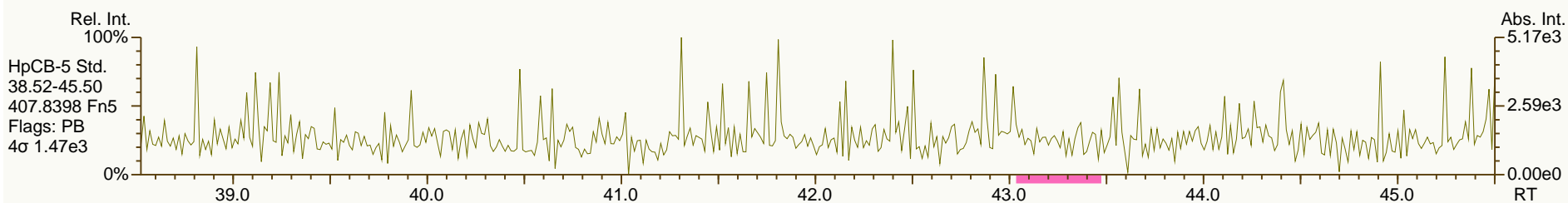
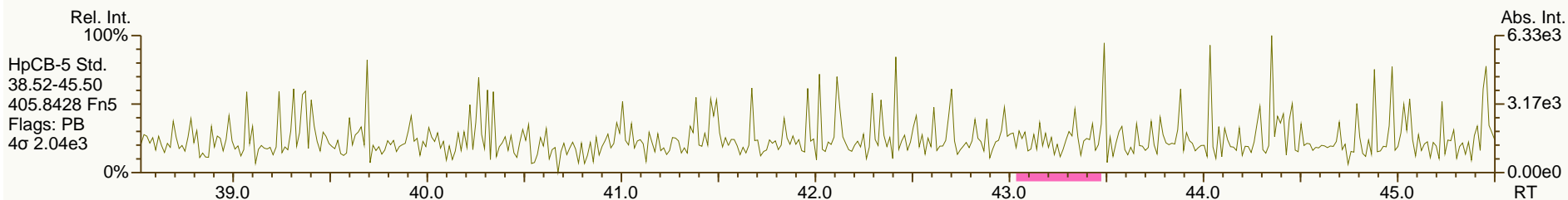
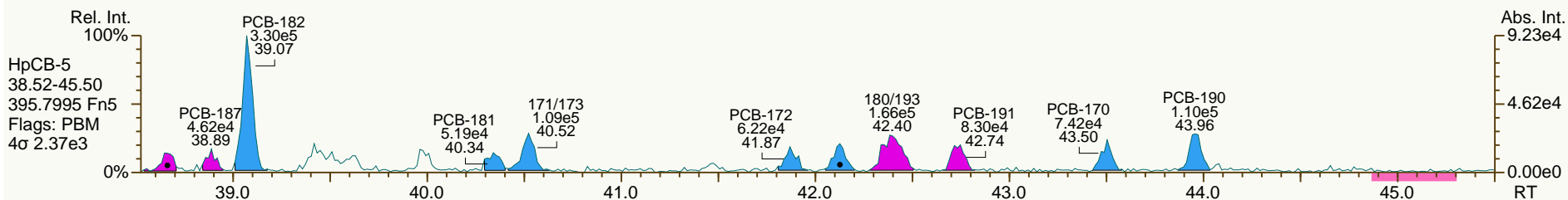
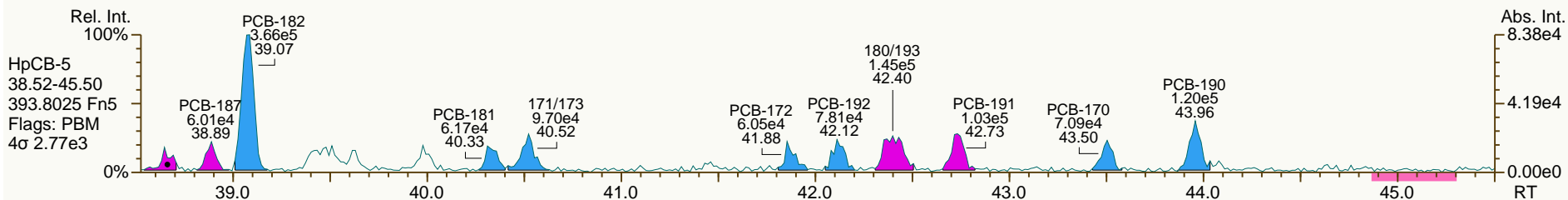
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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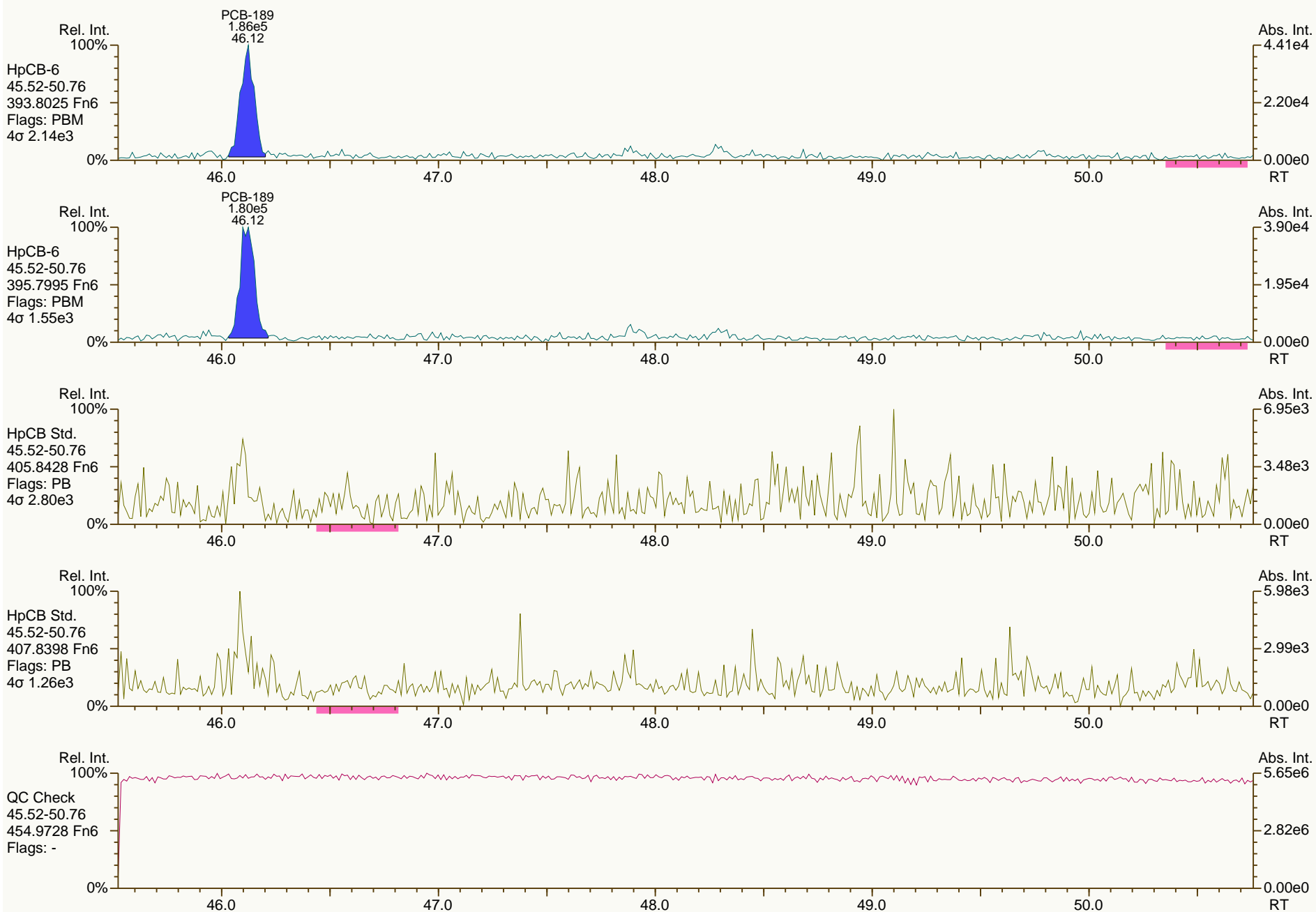
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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Sample ID: SIL 9-42-1  
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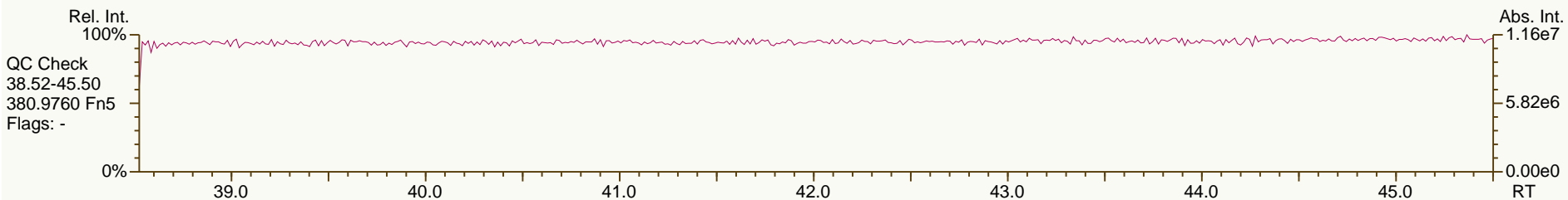
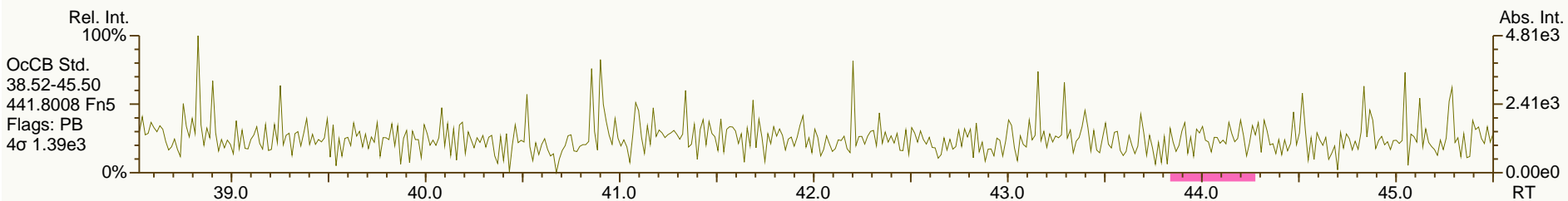
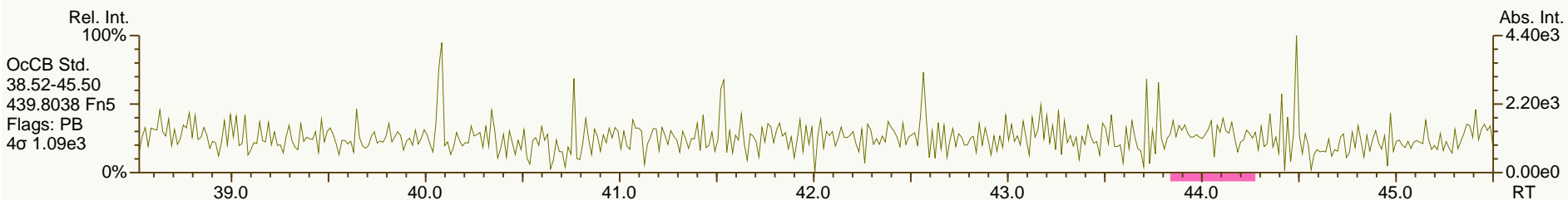
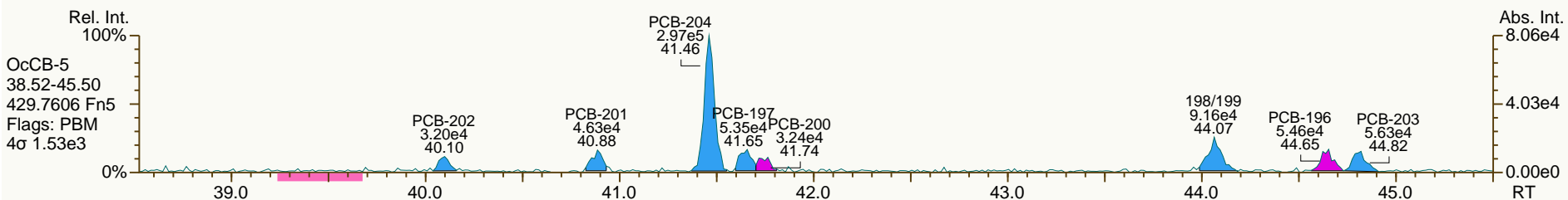
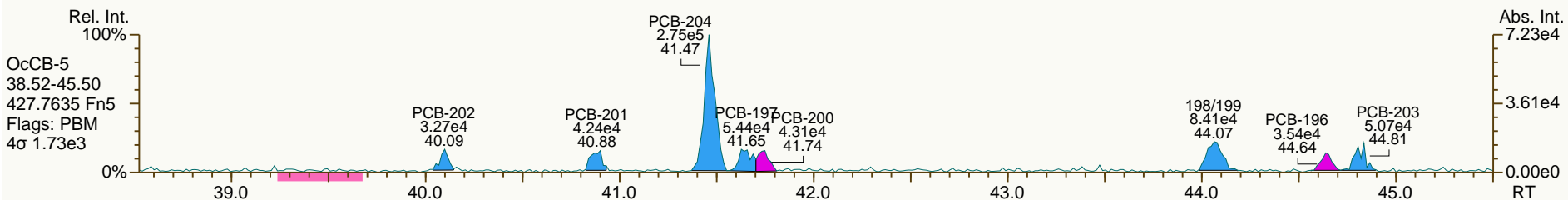
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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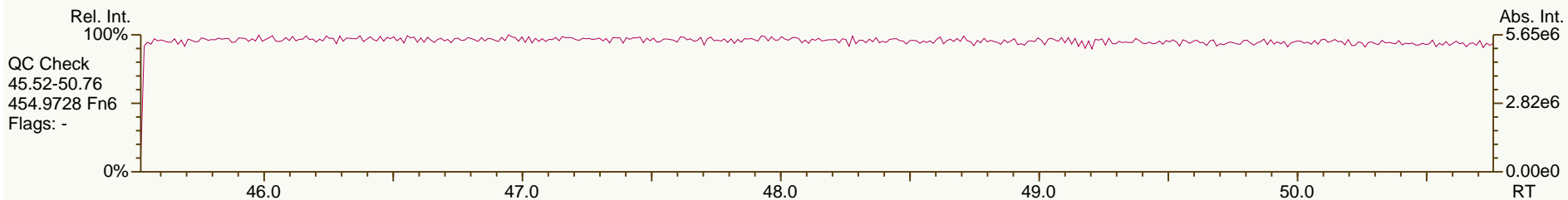
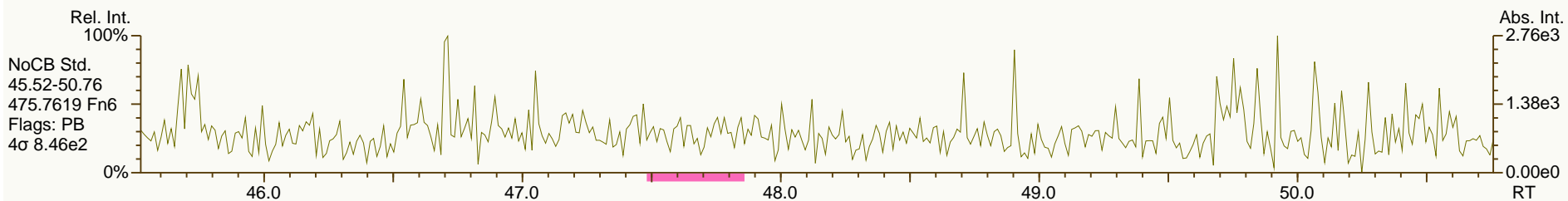
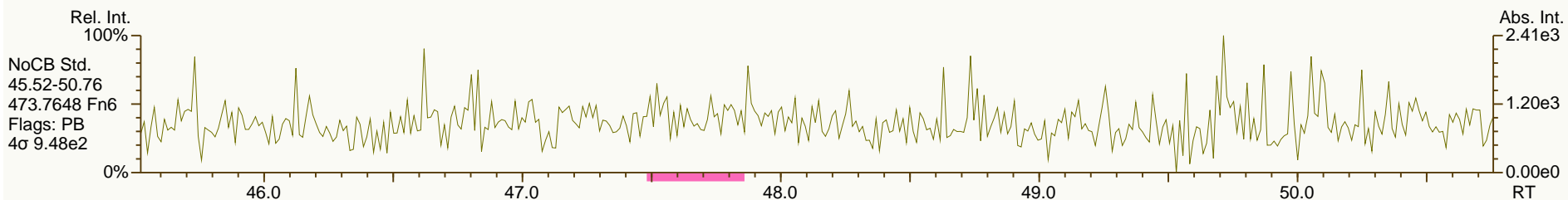
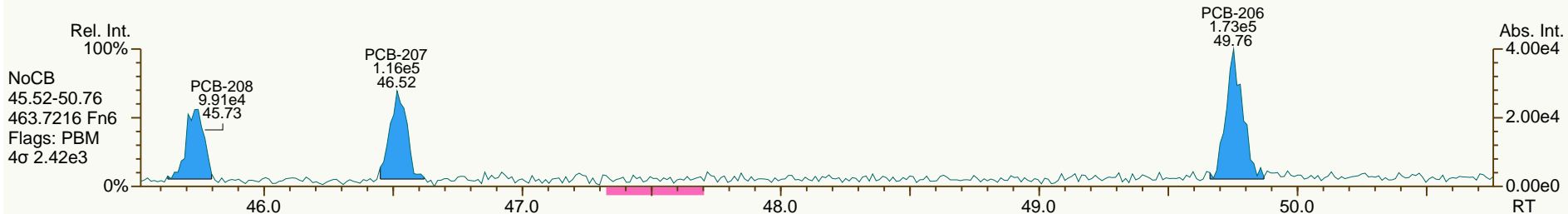
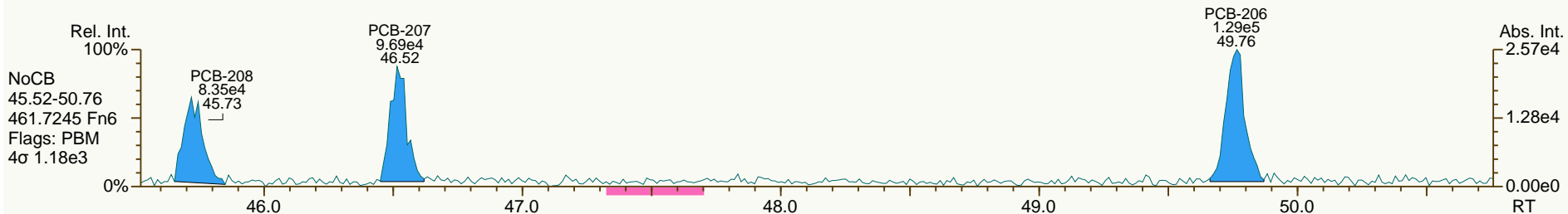




SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

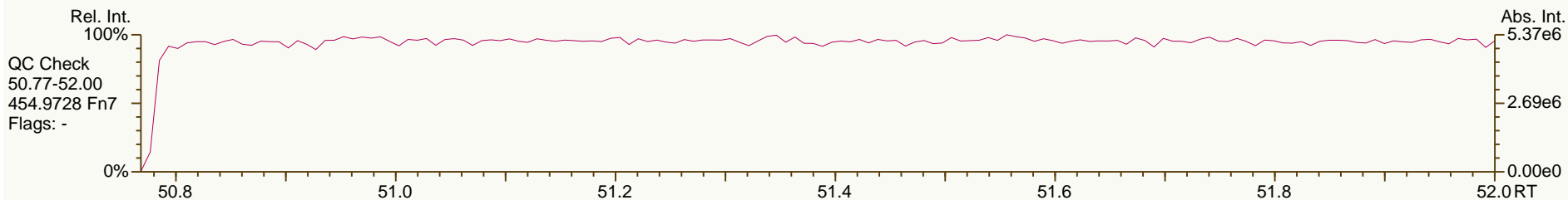
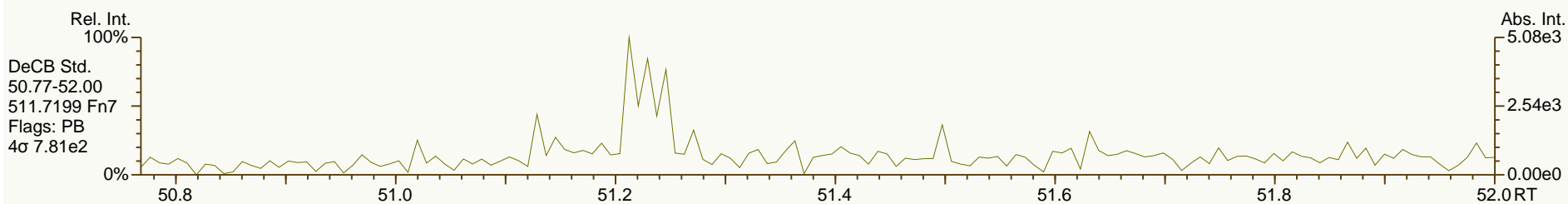
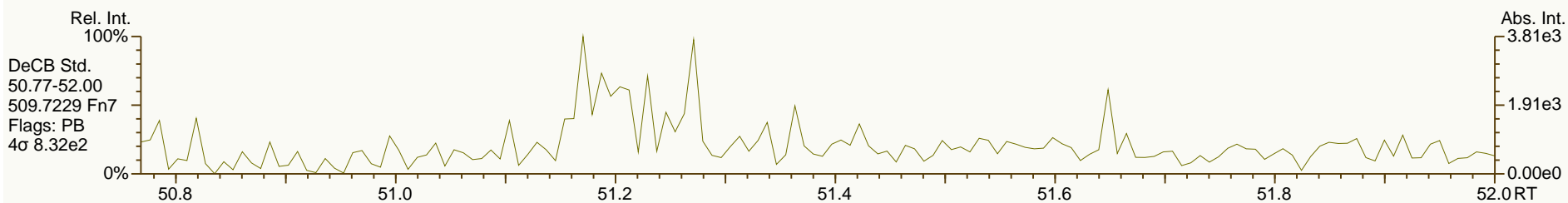
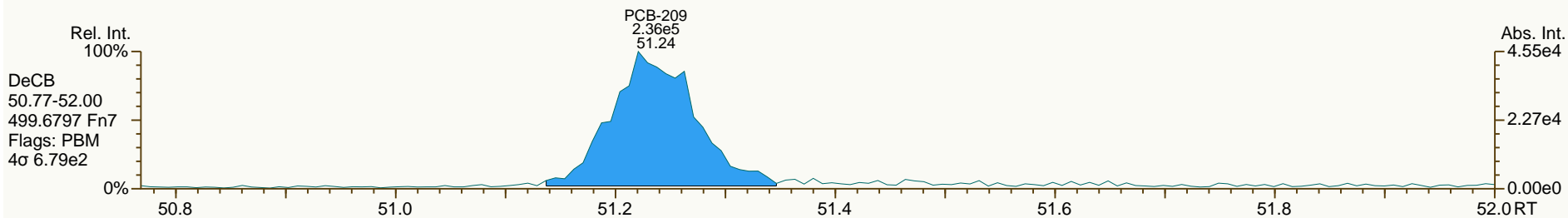
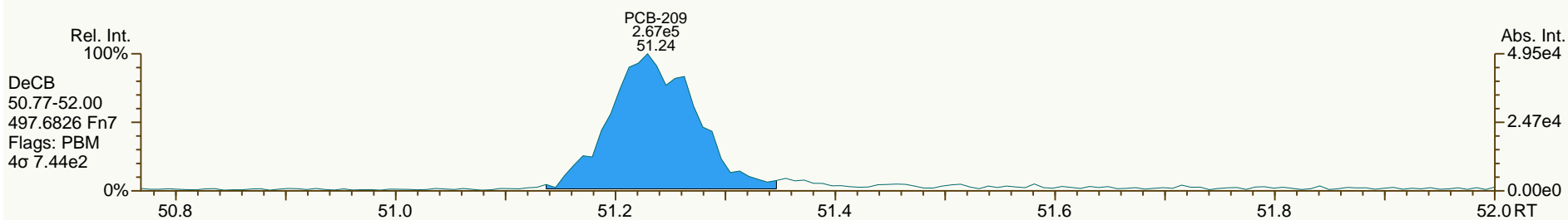
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

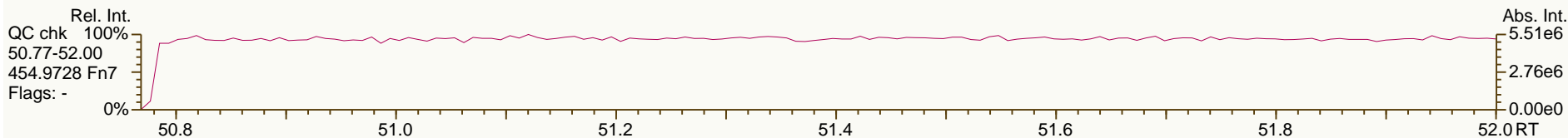
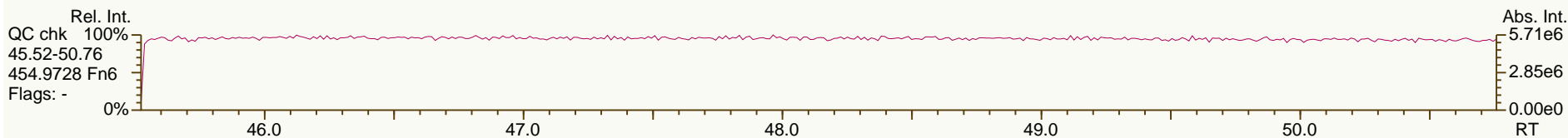
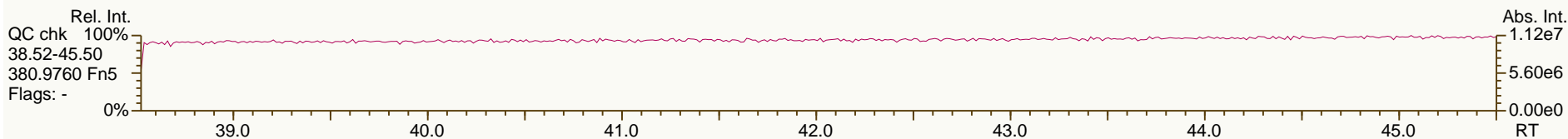
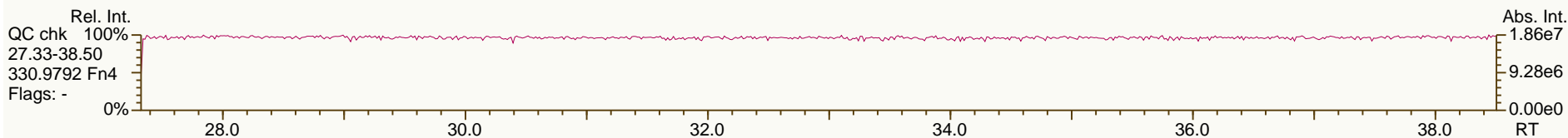
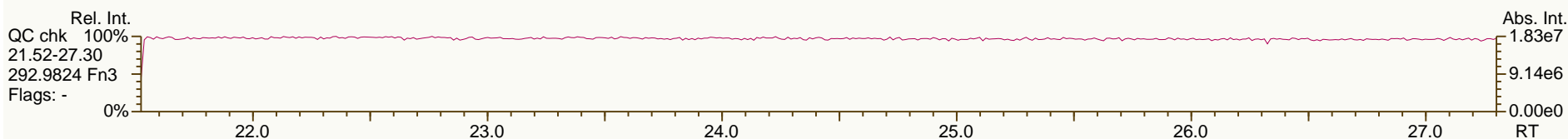
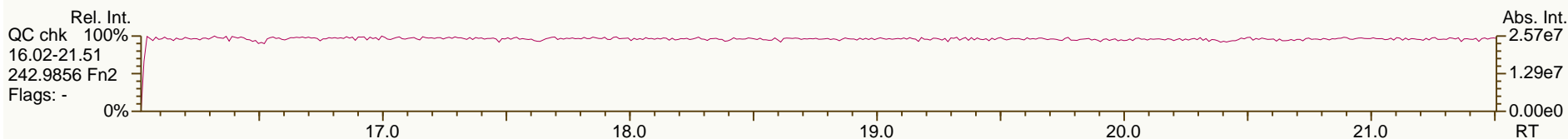
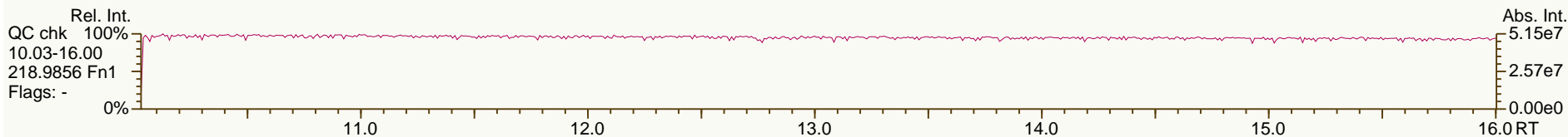
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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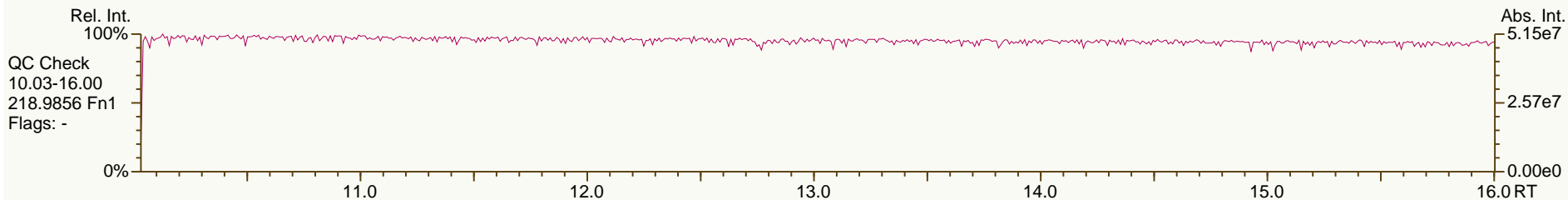
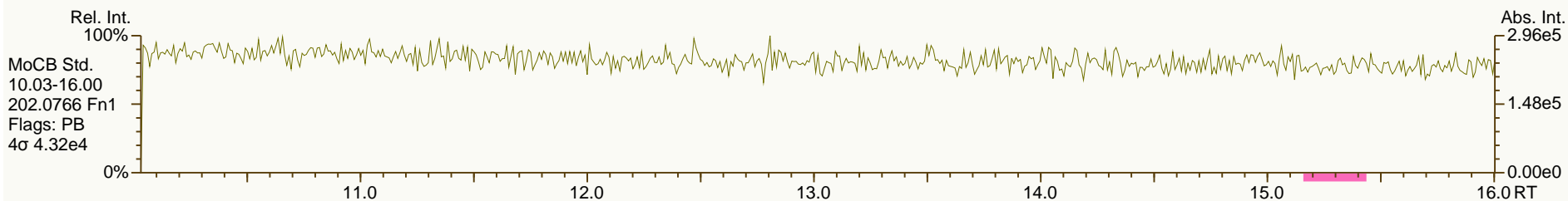
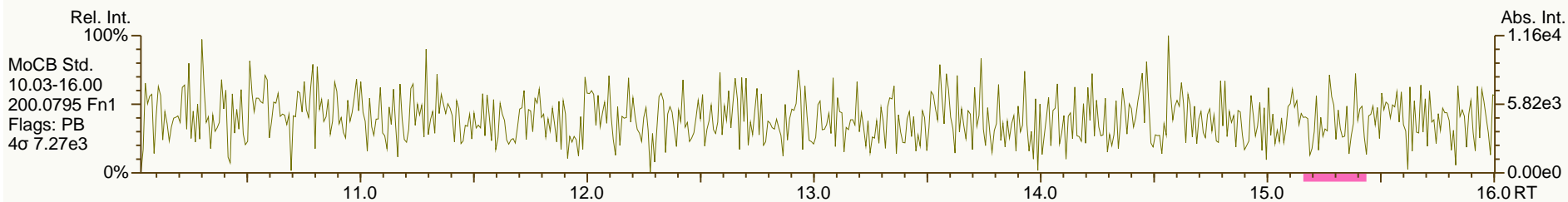
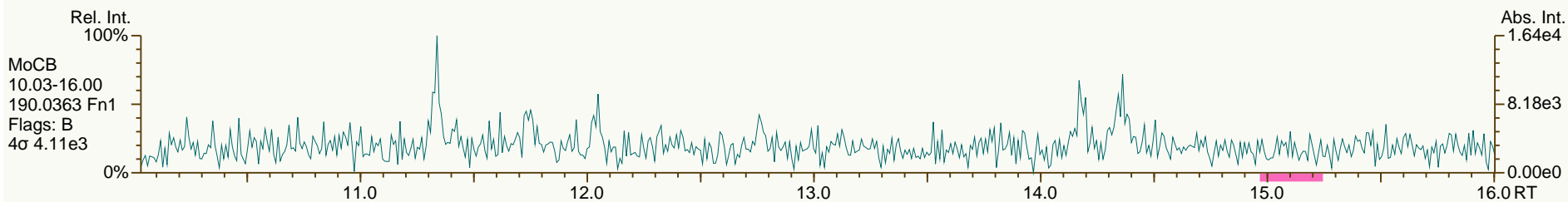
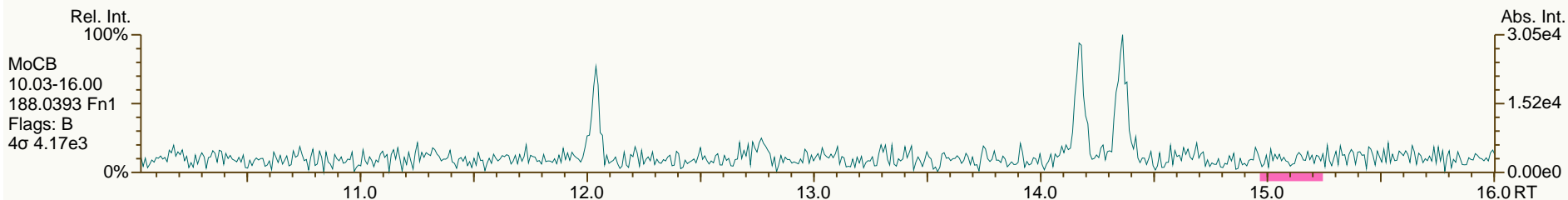
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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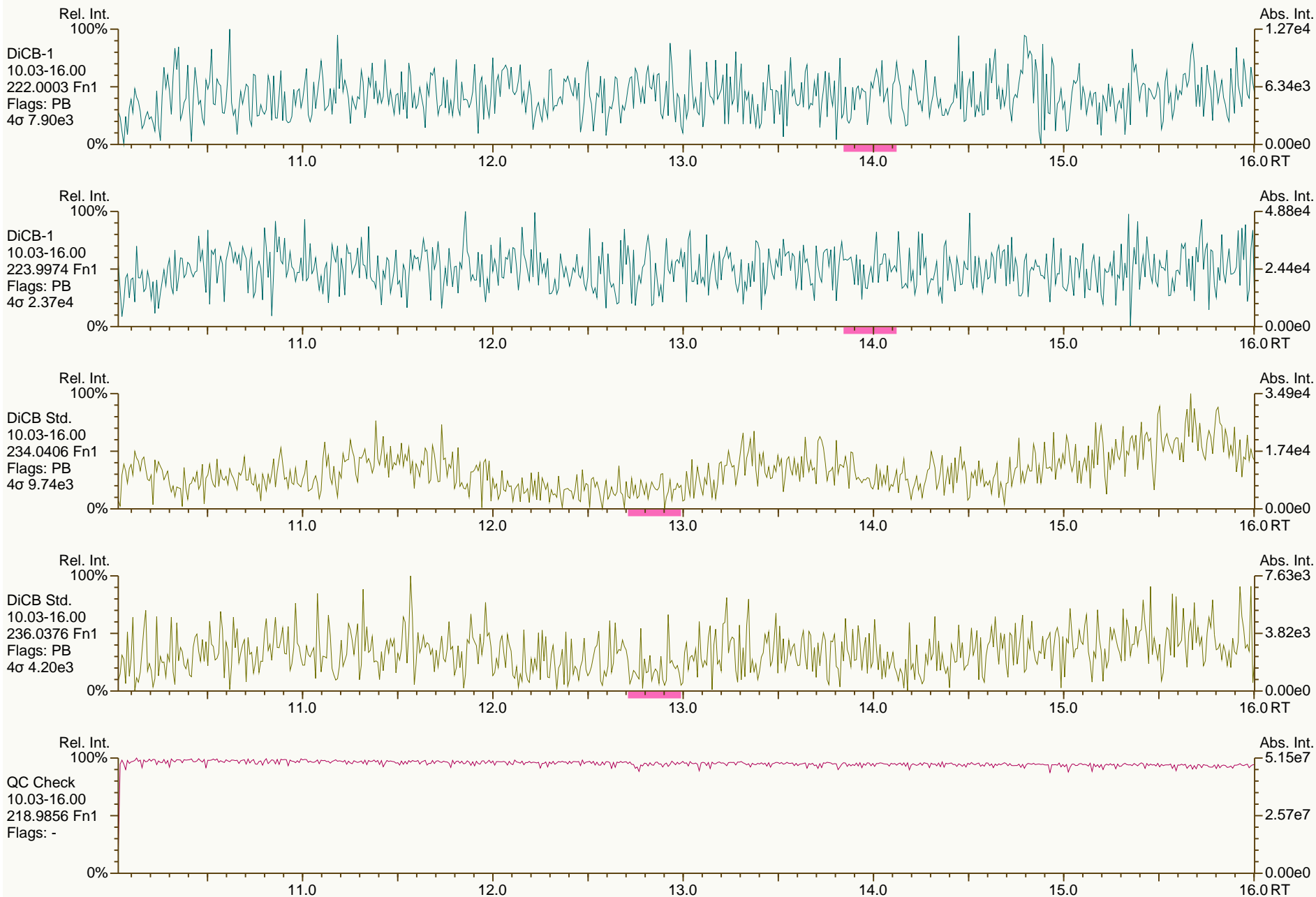
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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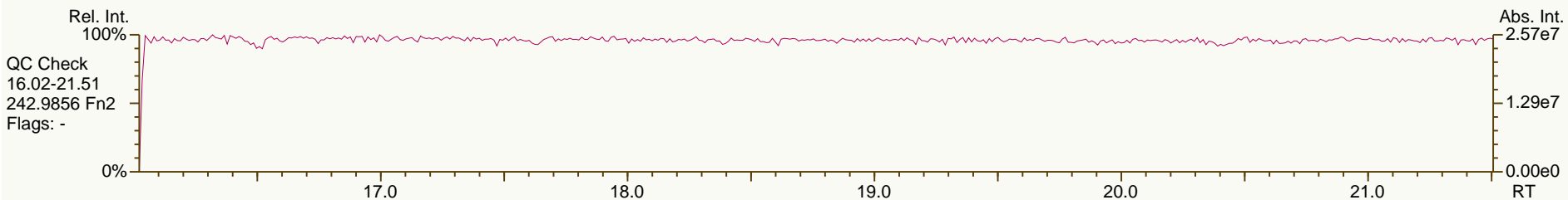
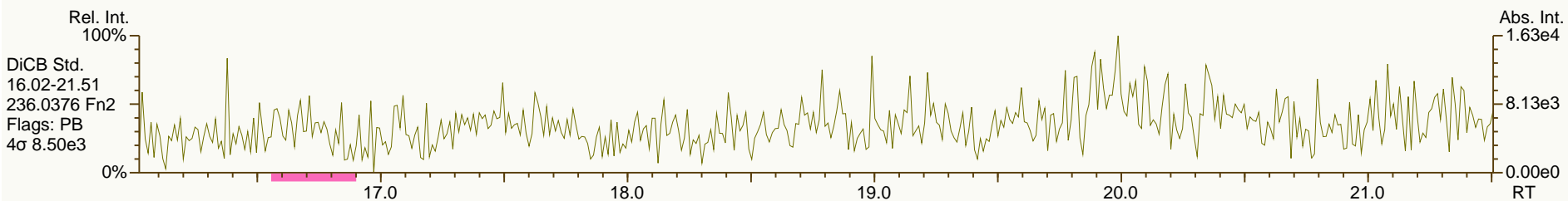
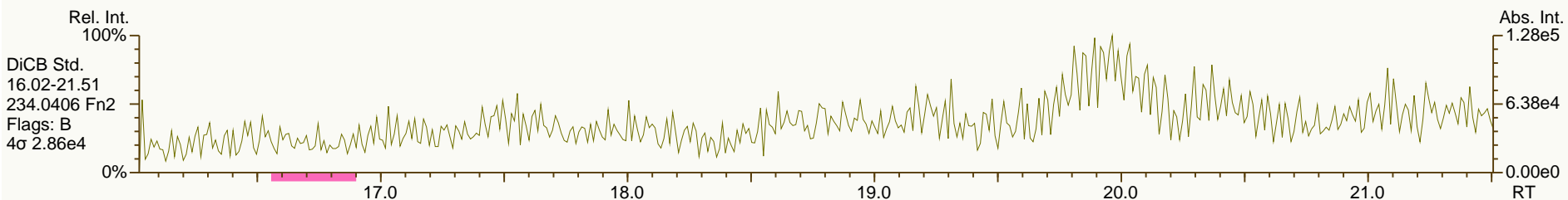
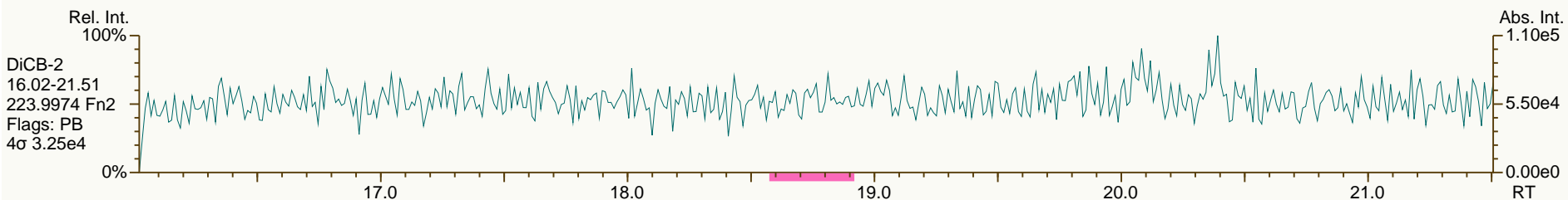
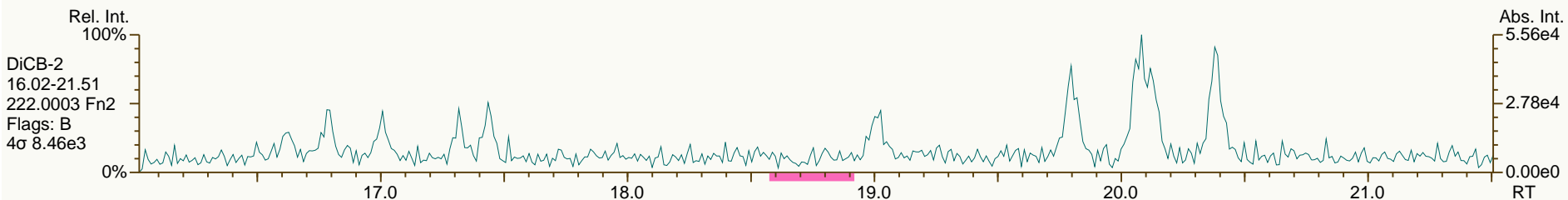
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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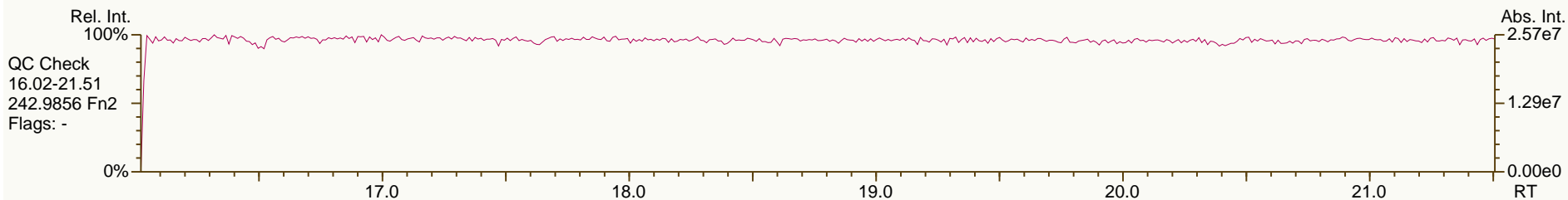
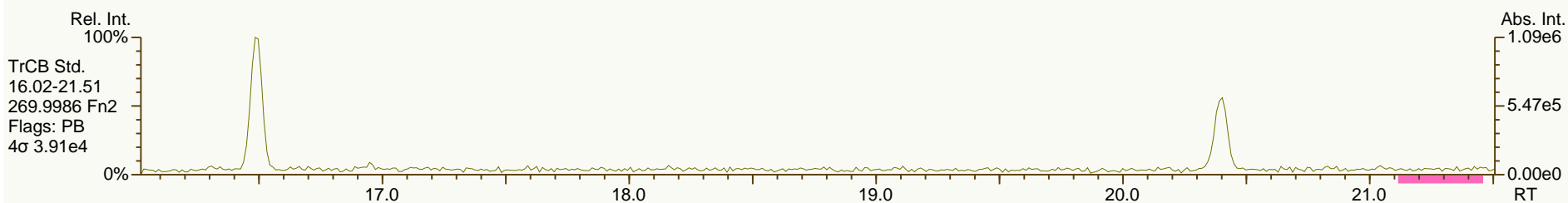
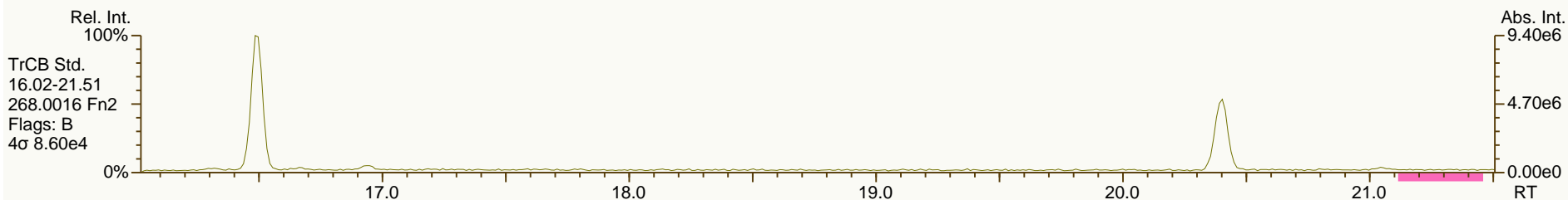
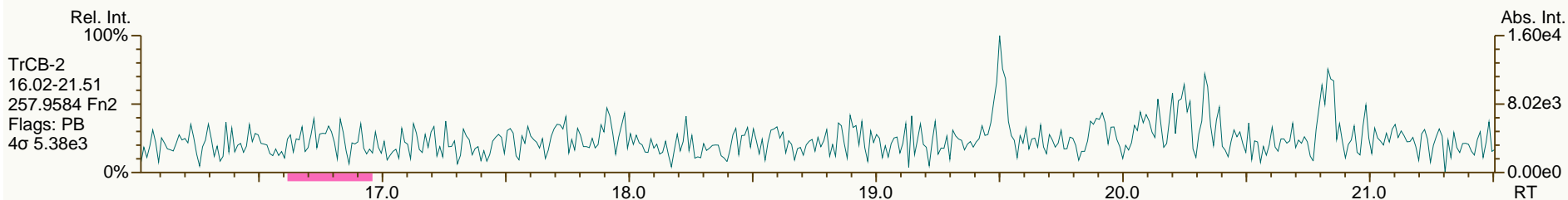
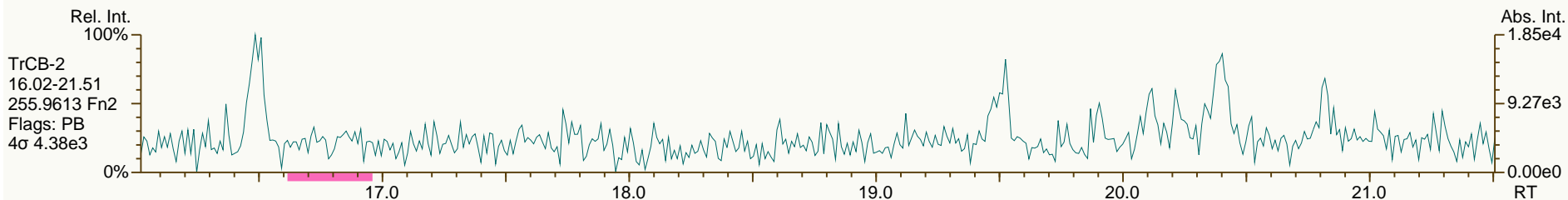
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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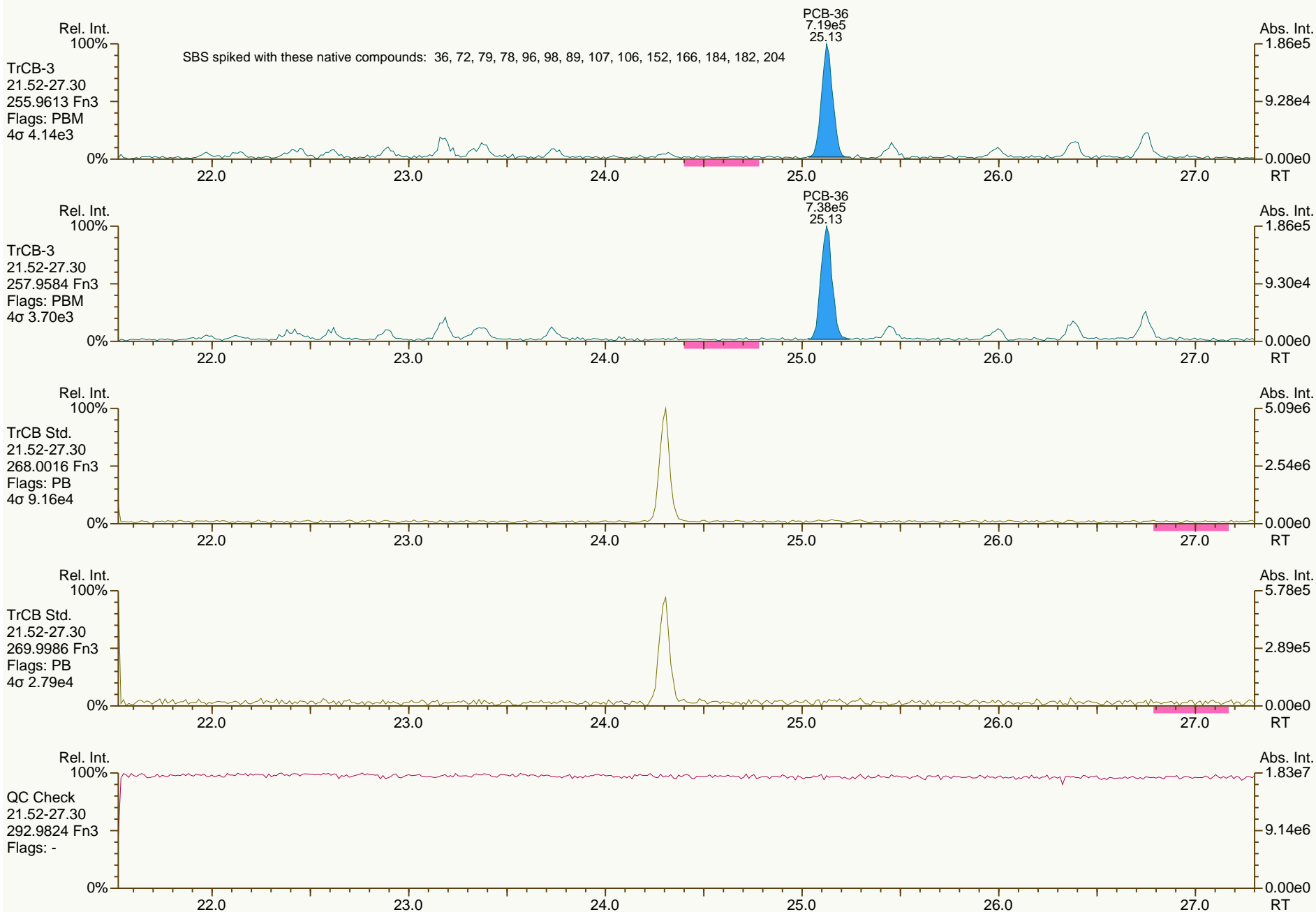
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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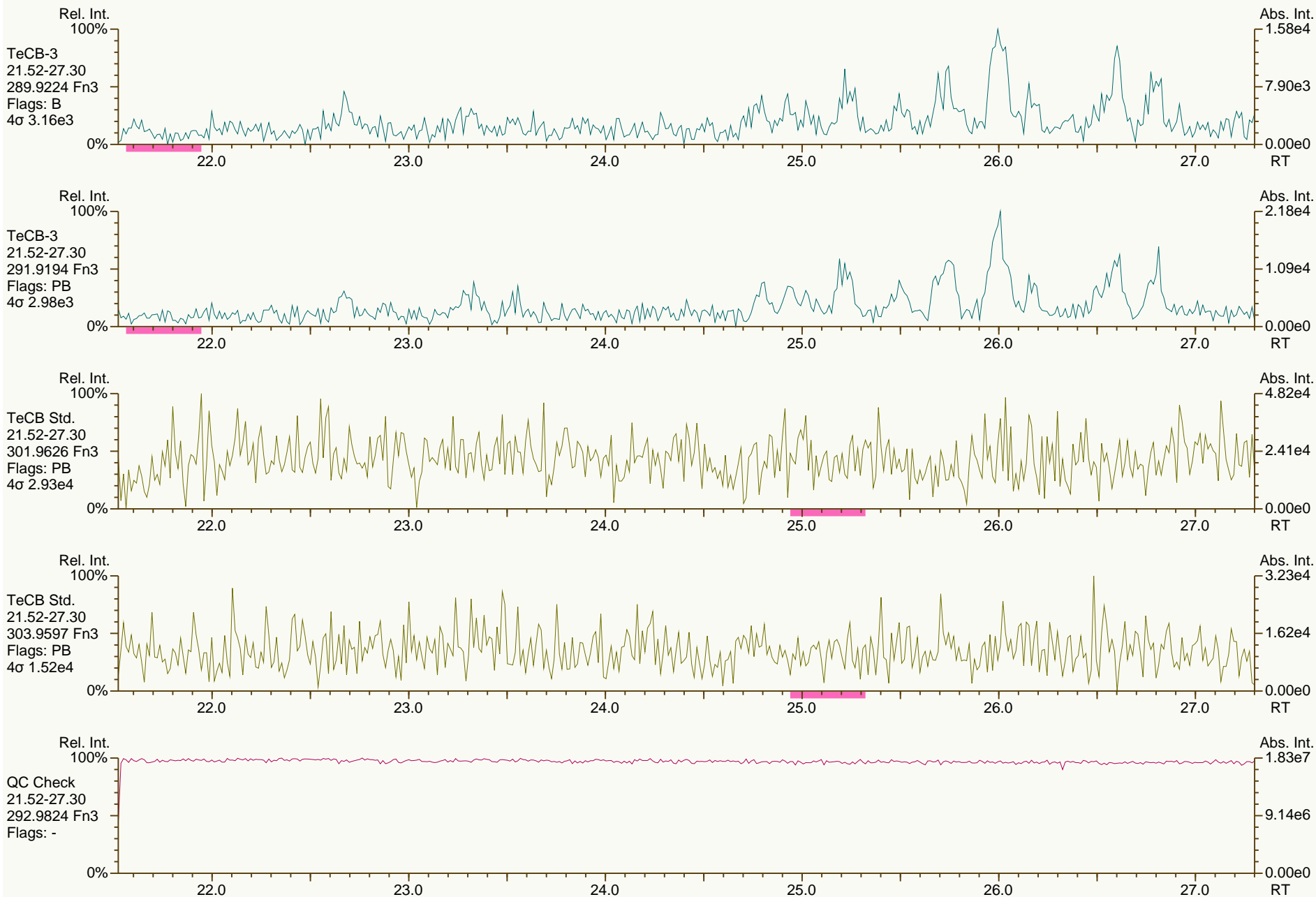
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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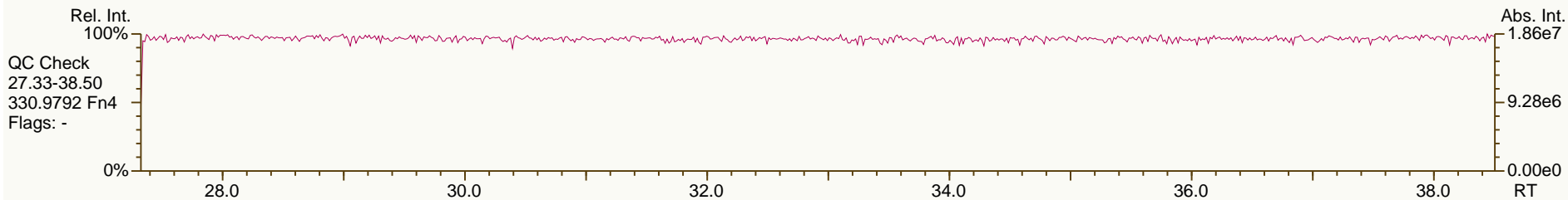
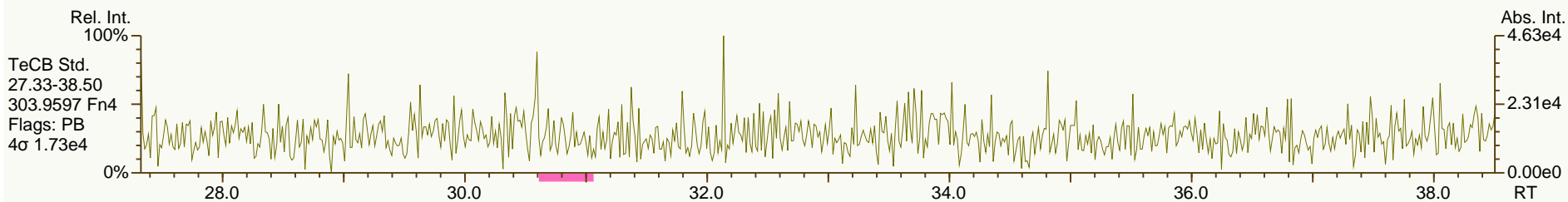
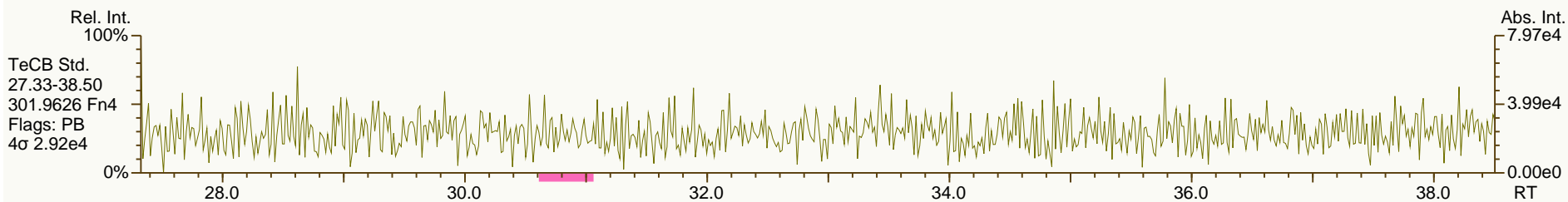
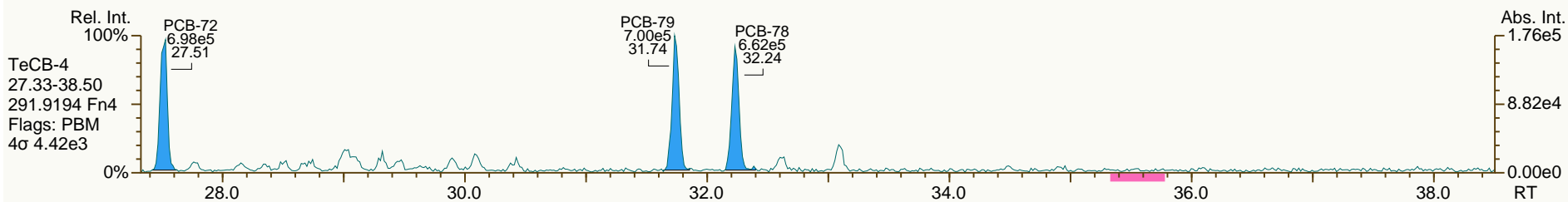
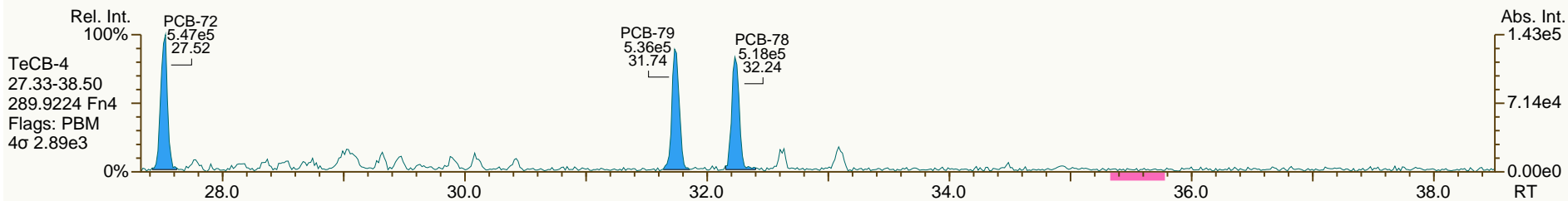
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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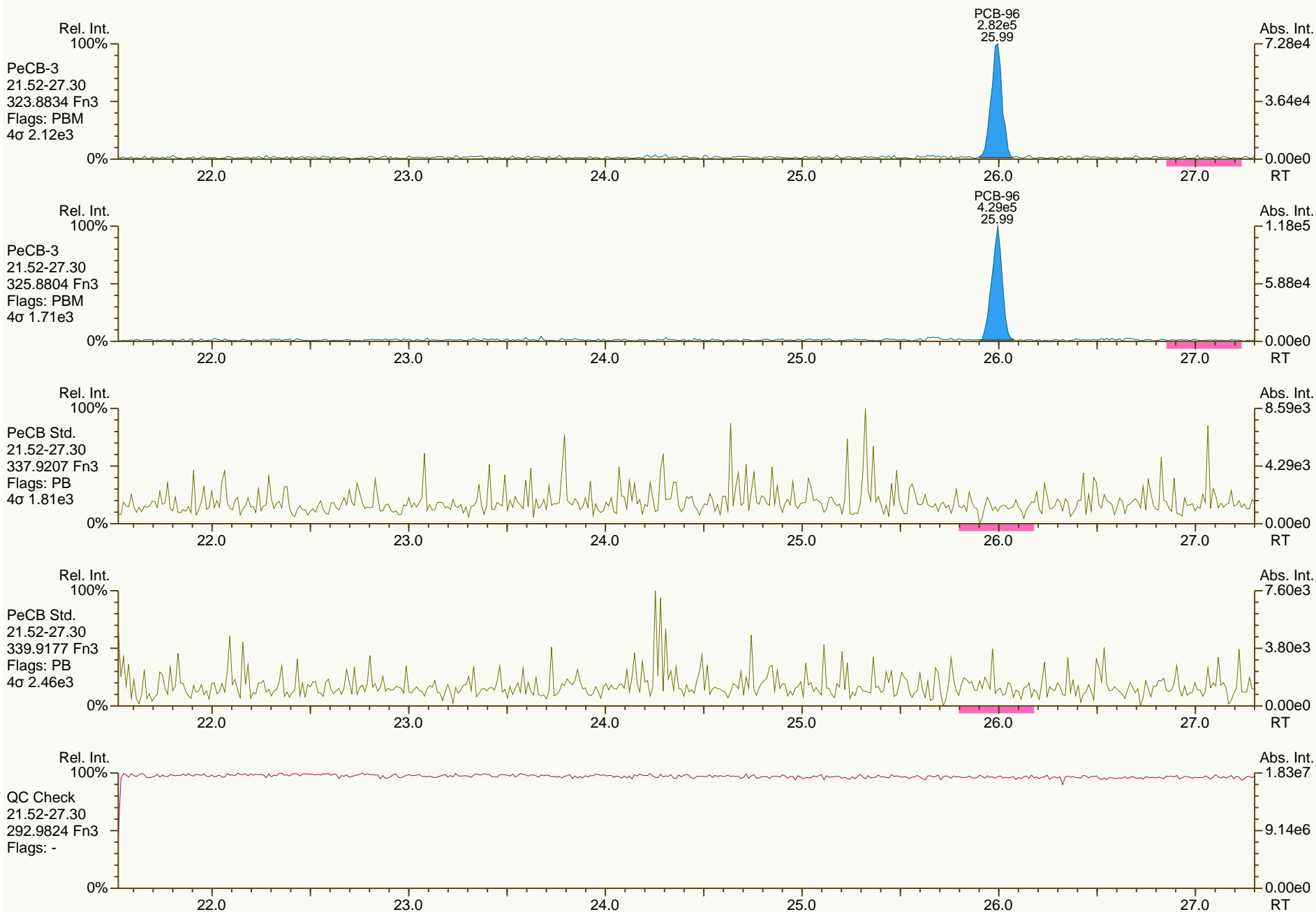
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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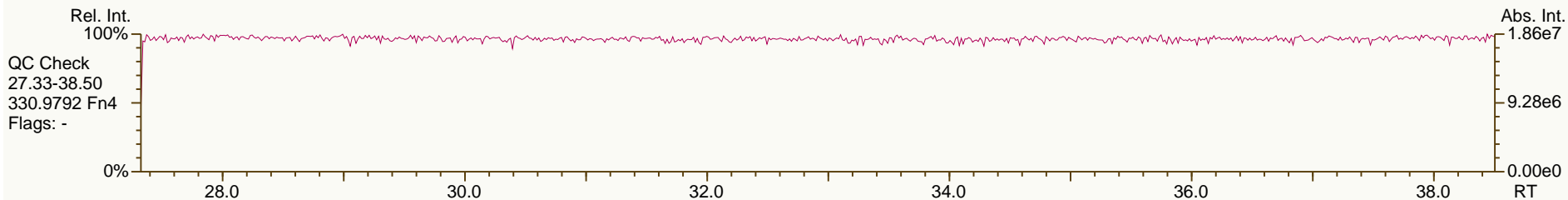
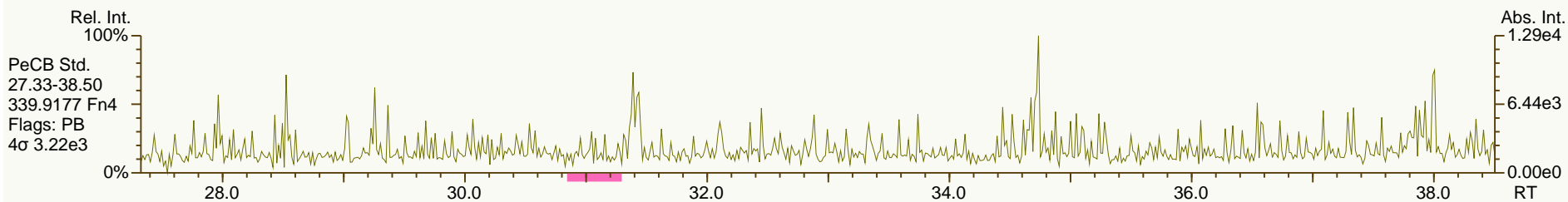
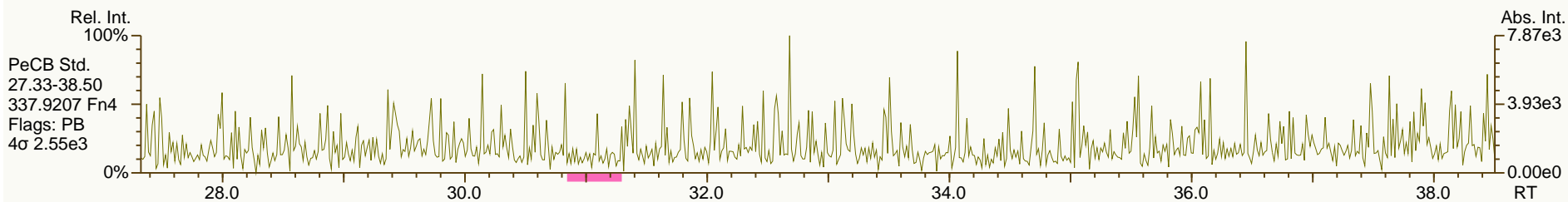
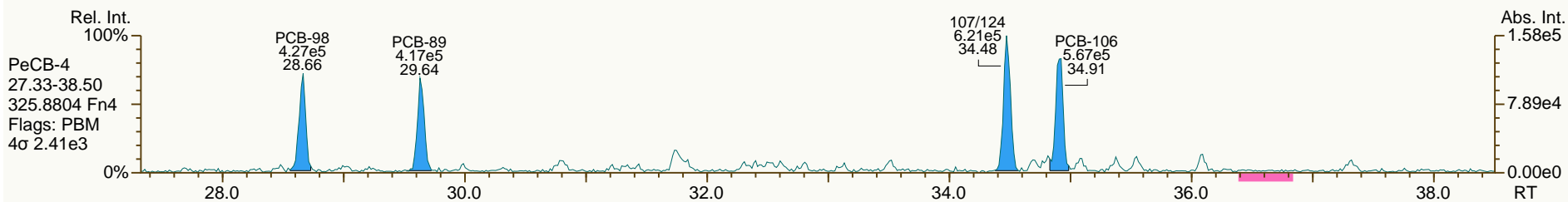
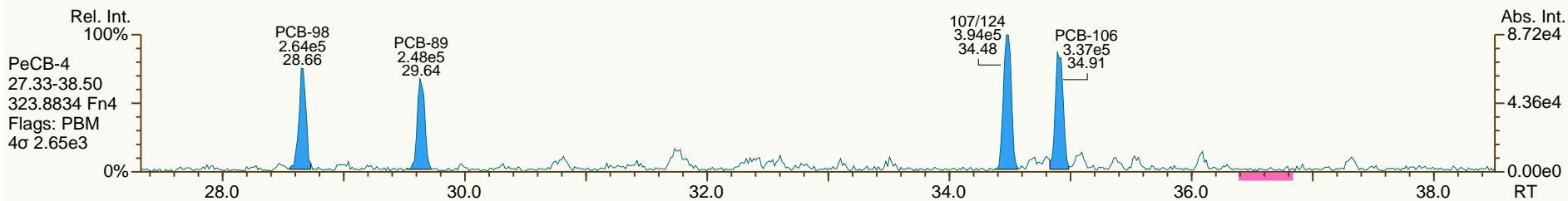
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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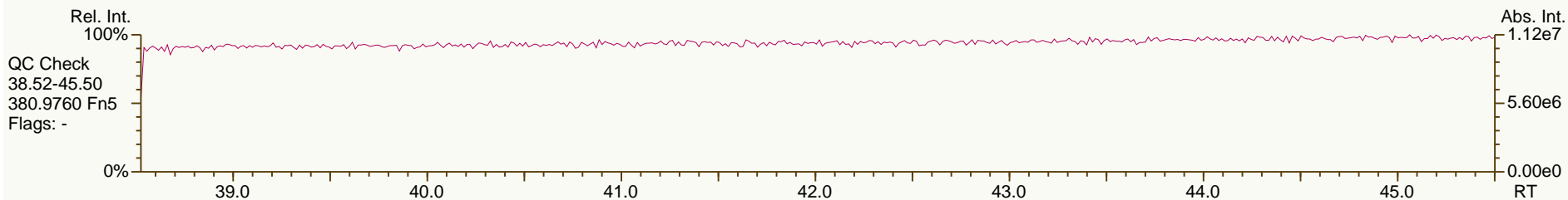
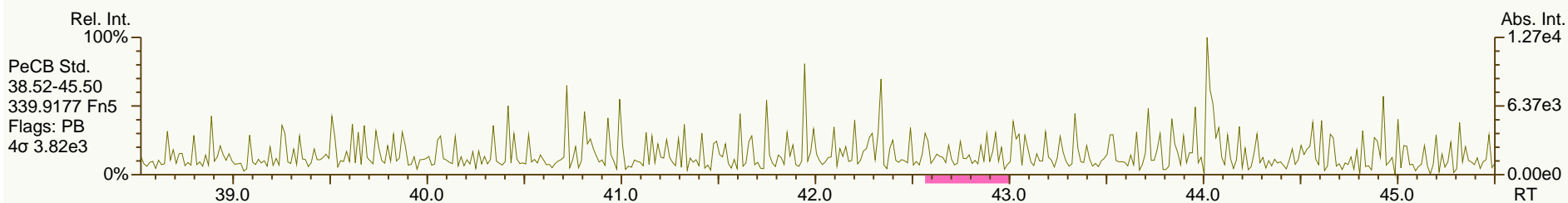
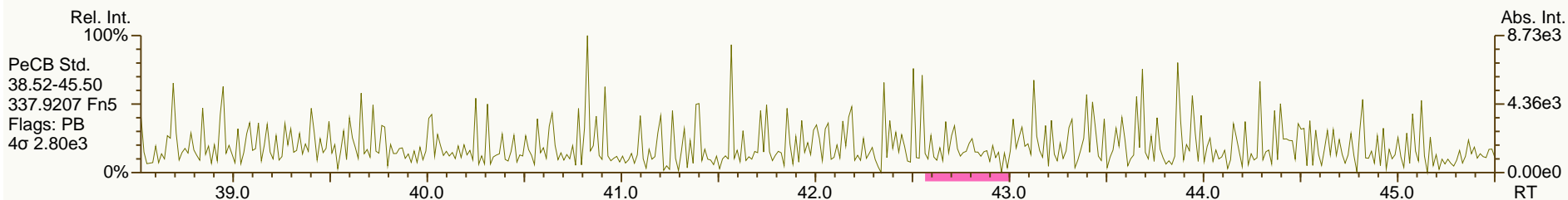
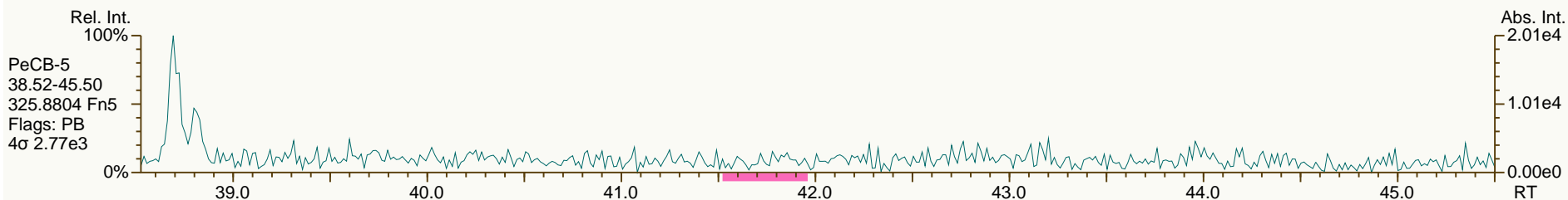
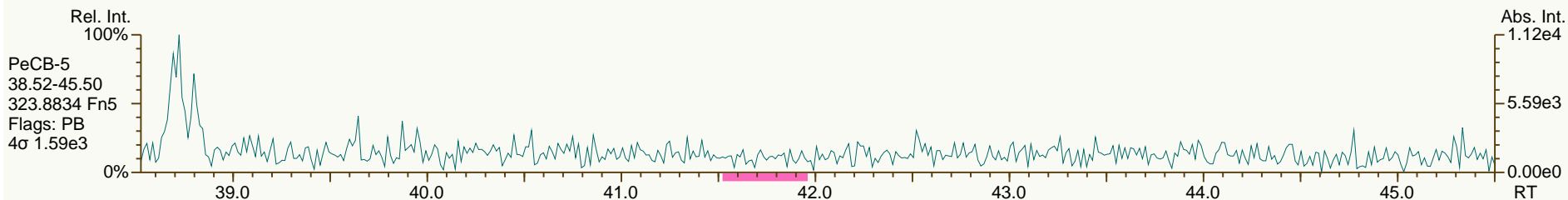
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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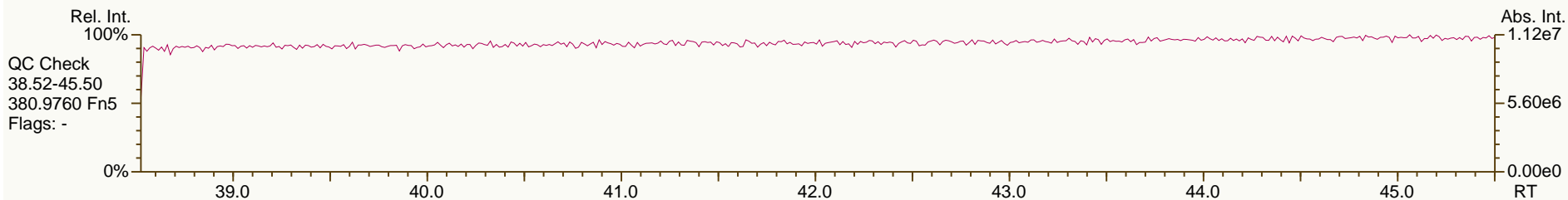
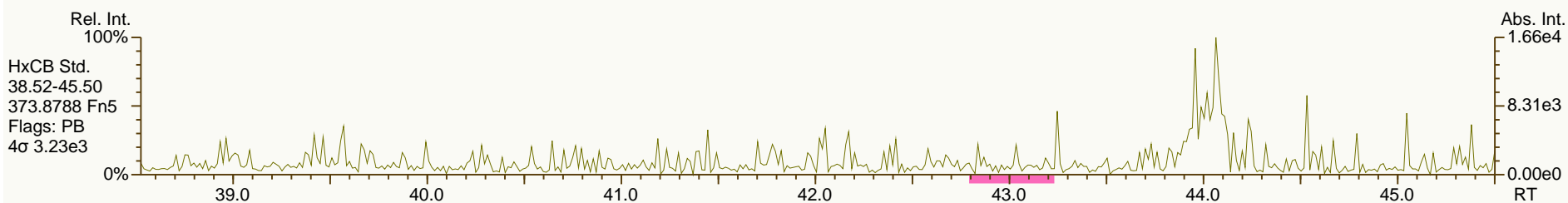
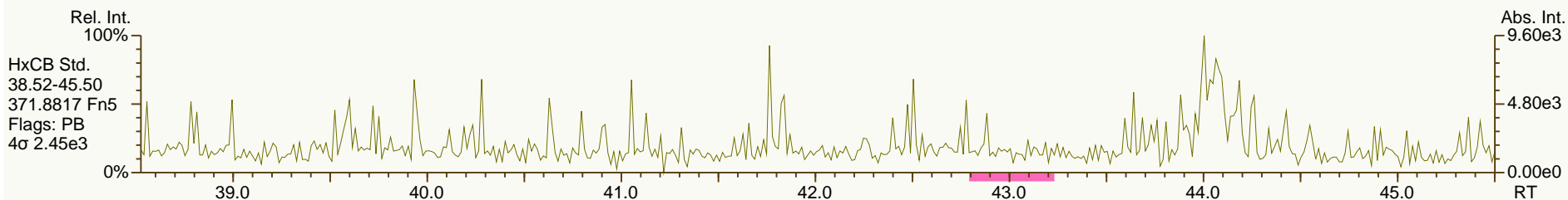
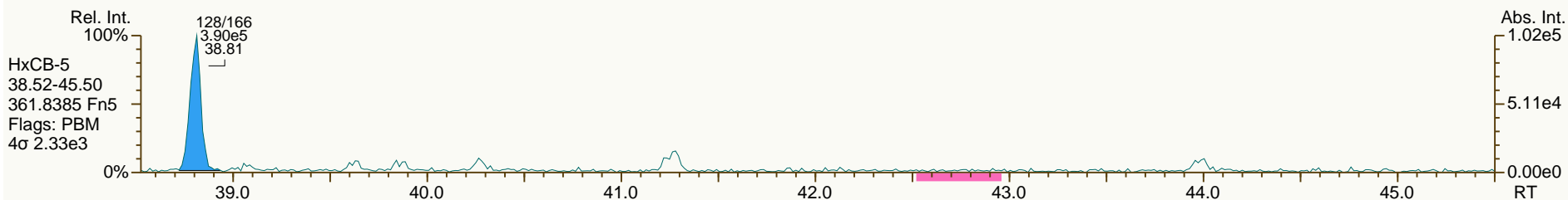
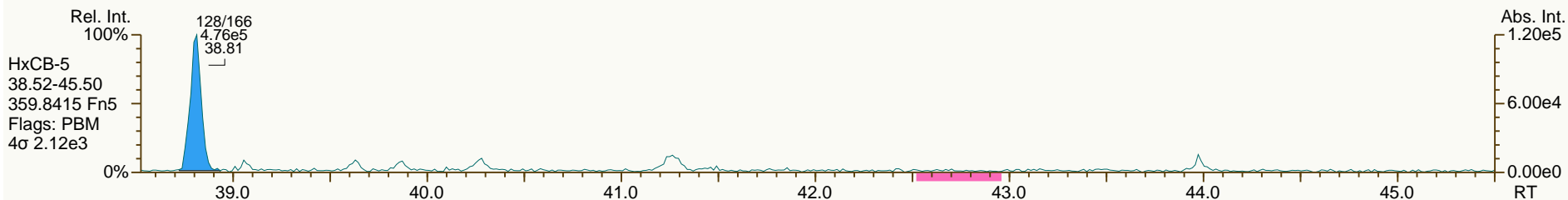
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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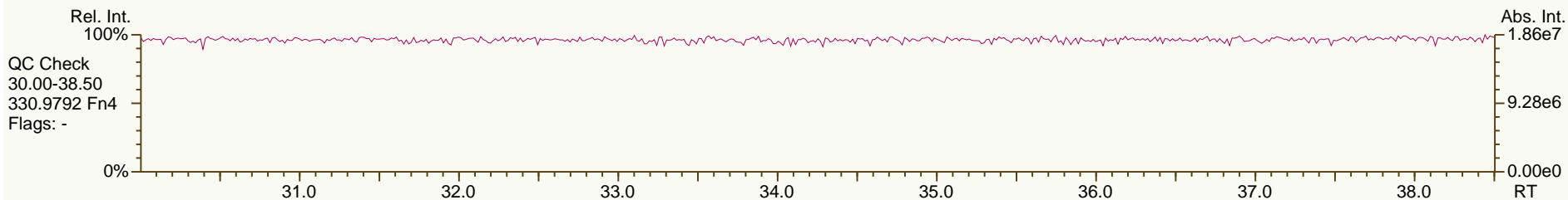
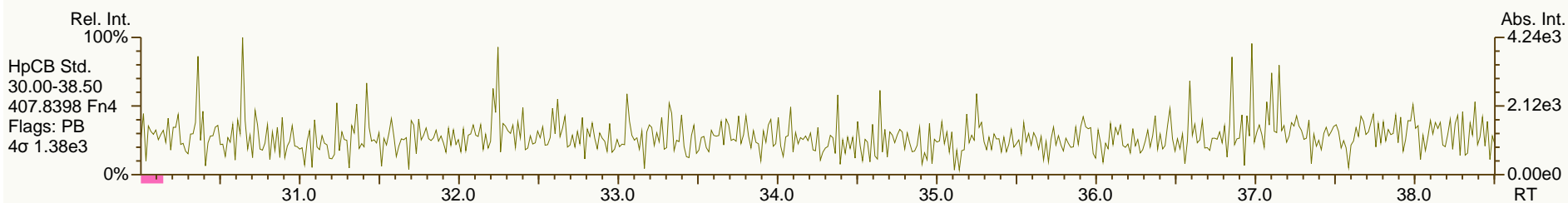
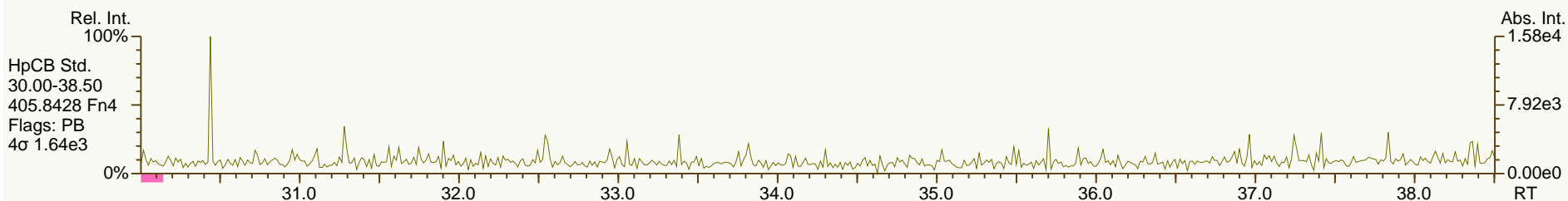
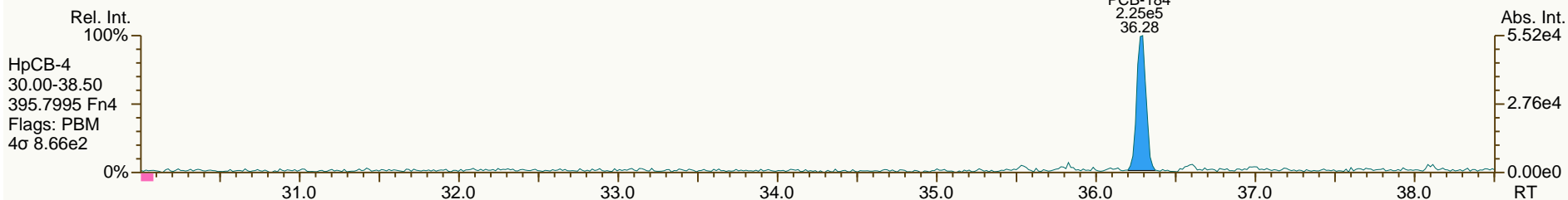
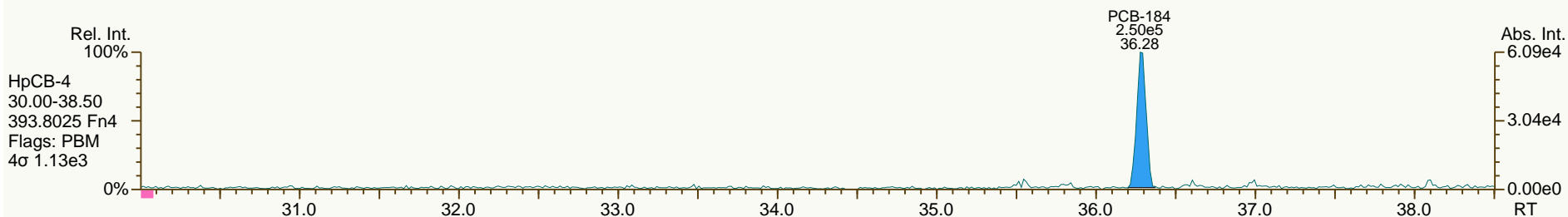




SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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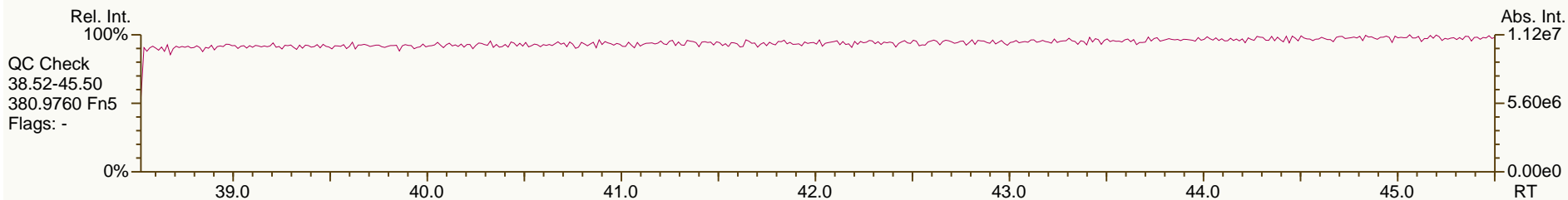
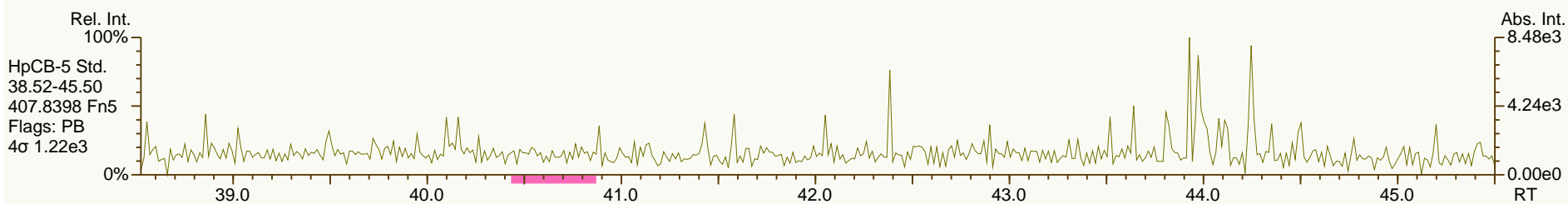
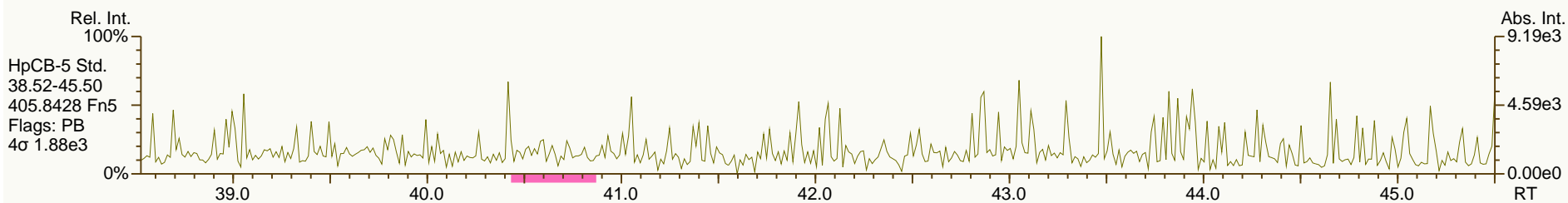
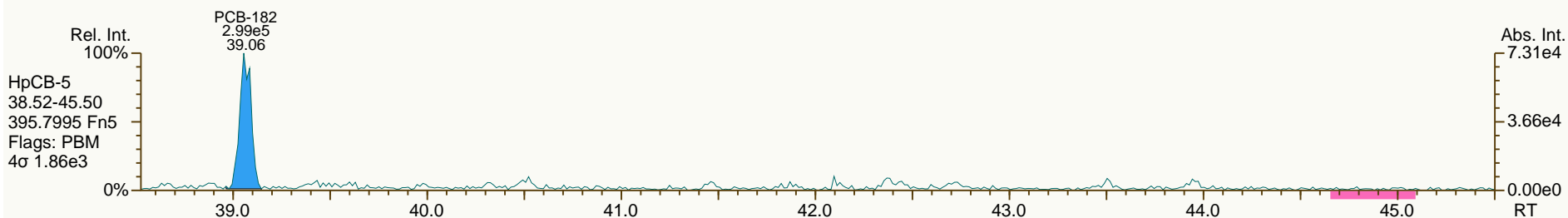
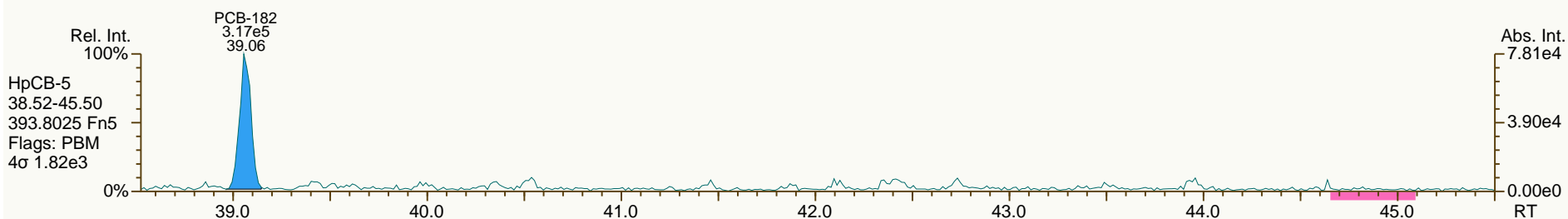
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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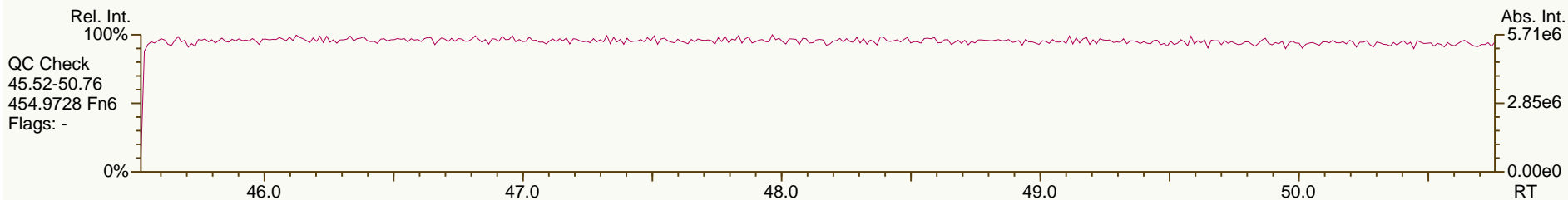
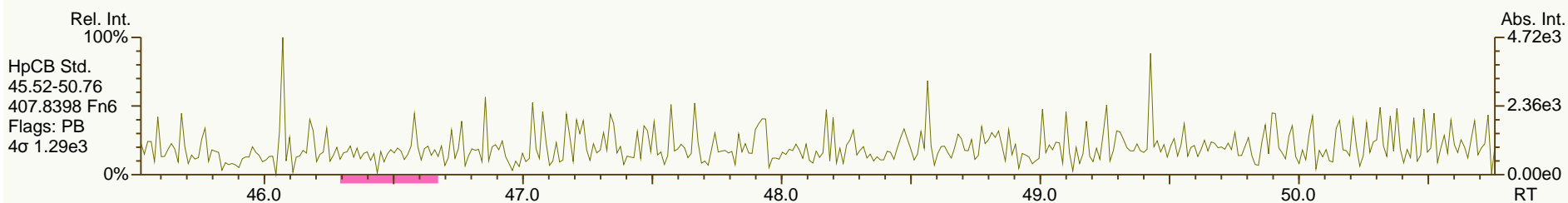
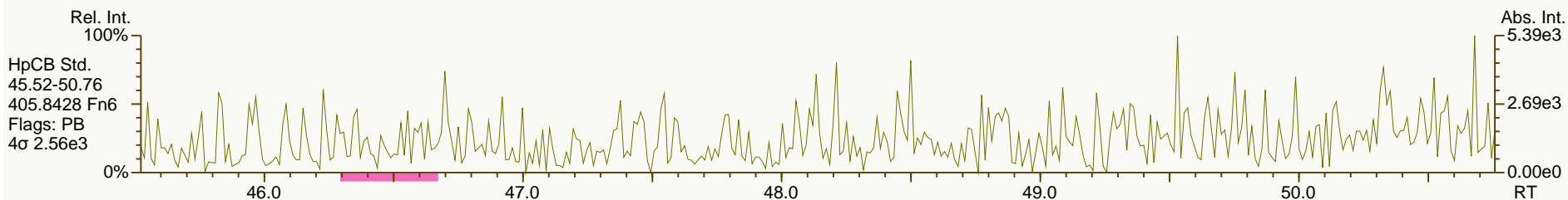
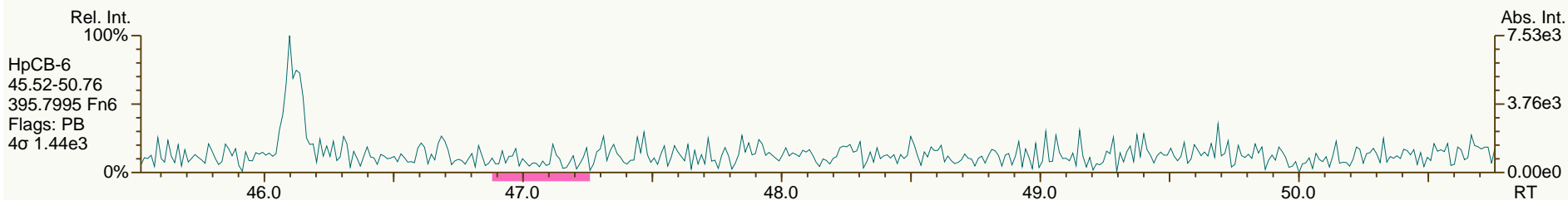
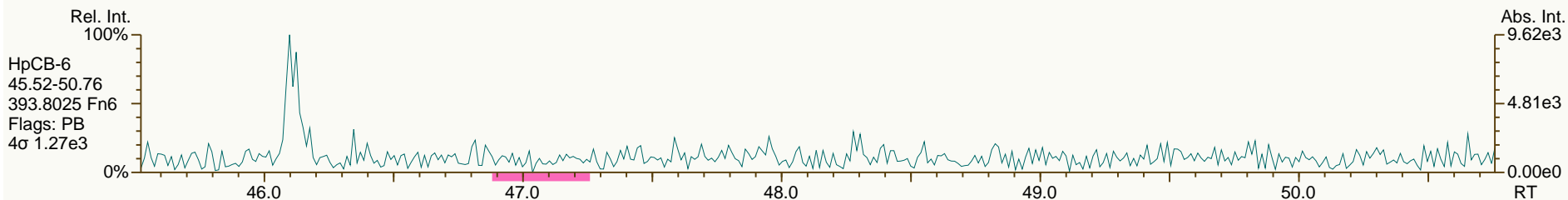
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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Acq: 20-Dec-2013 22:52:16  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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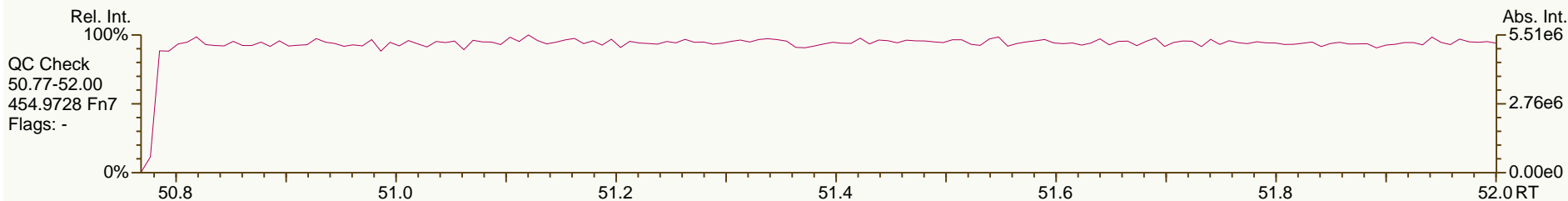
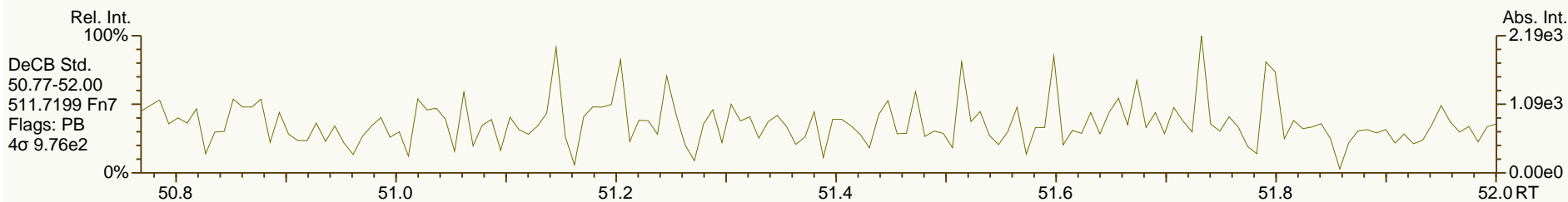
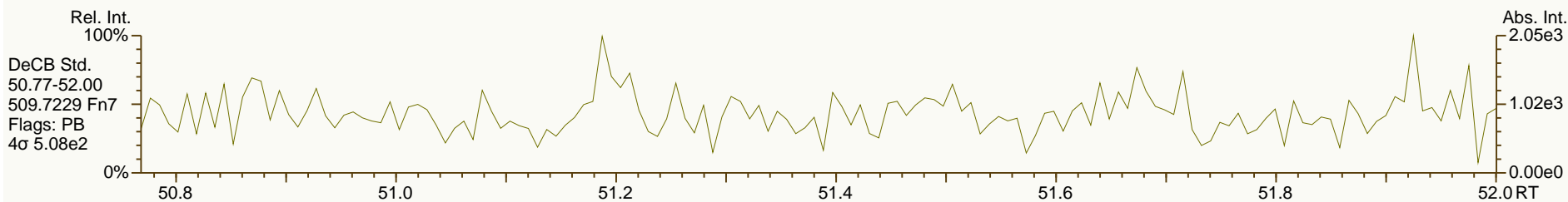
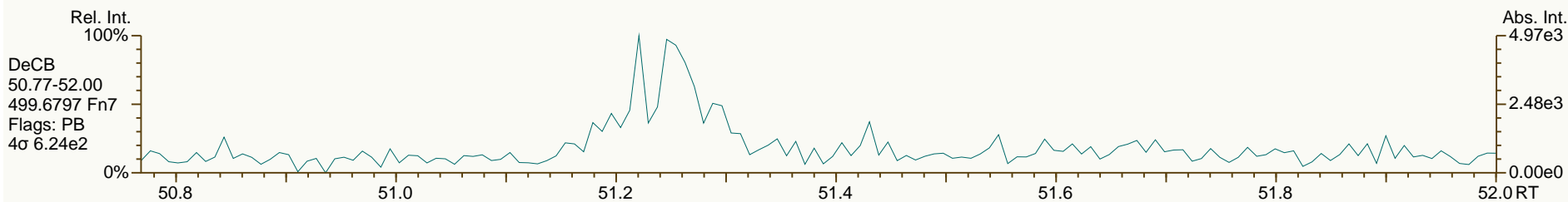
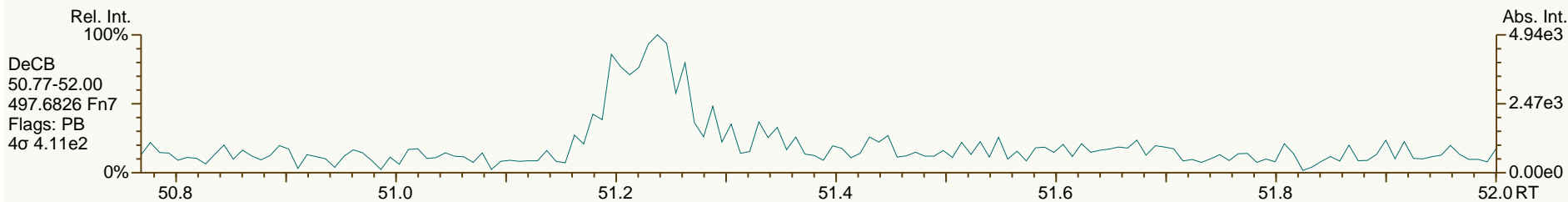
Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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## Experiment Calibration Report

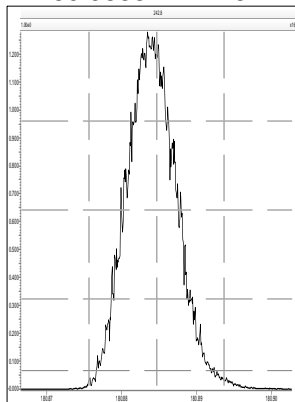
MassLynx 4.1 SCN 881

Page 1 of 1

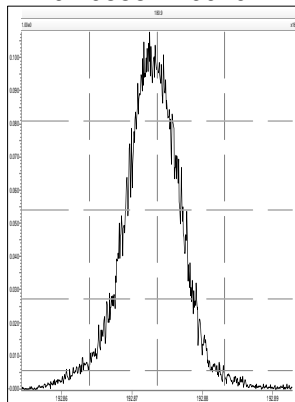
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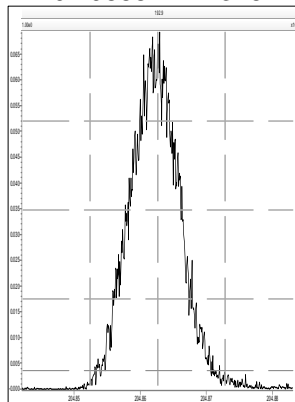
M 180.9888 R 11467



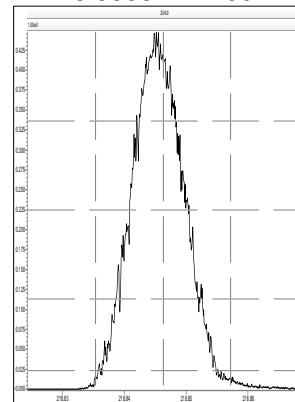
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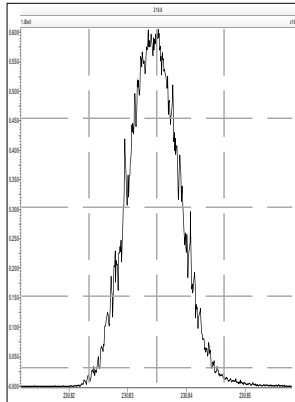
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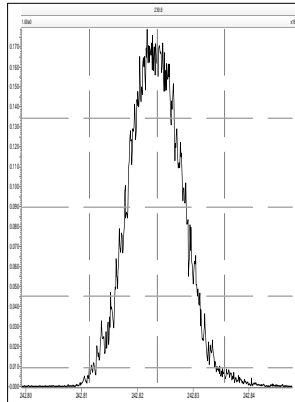
M 218.9856 R 11902



M 230.9856 R 11523



M 242.9856 R 11311





## Experiment Calibration Report

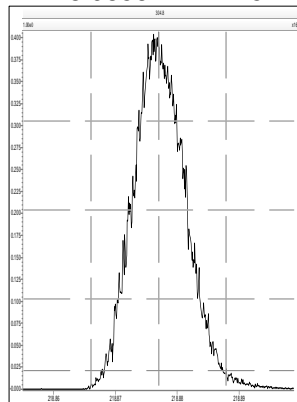
MassLynx 4.1 SCN 881

Page 1 of 1

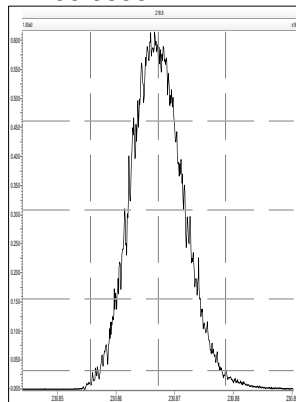
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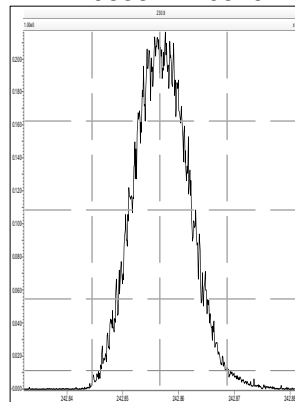
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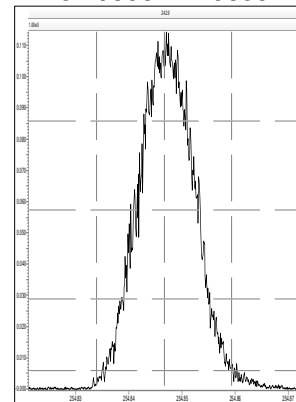
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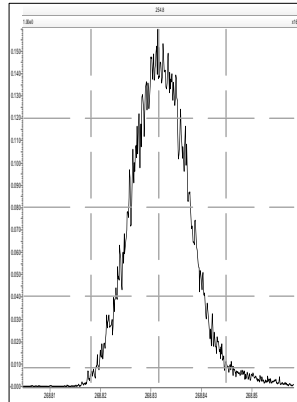
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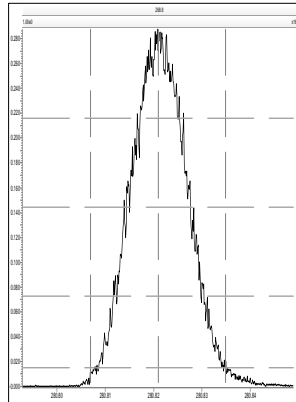
M 254.9856 R 10639



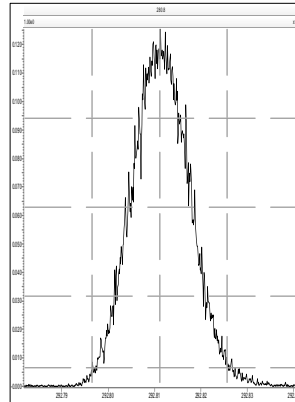
M 268.9824 R 10161



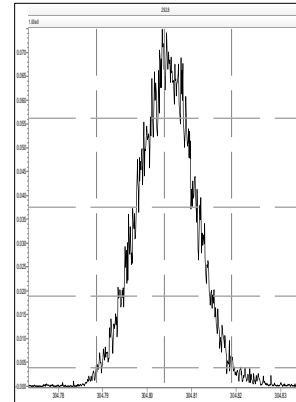
M 280.9824 R 10871



M 292.9824 R 10203



M 304.9824 R 10820



## Experiment Calibration Report

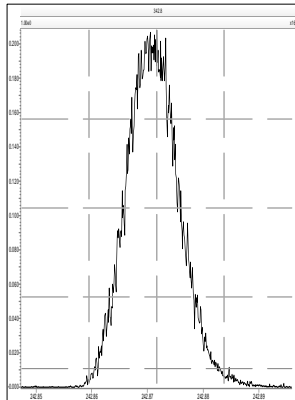
MassLynx 4.1 SCN 881

Page 1 of 1

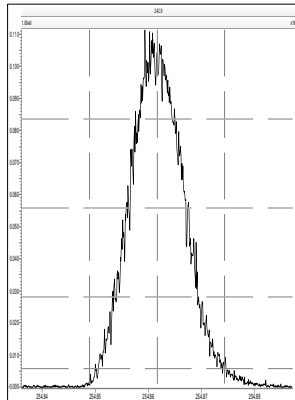
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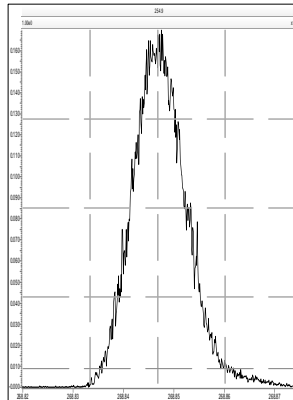
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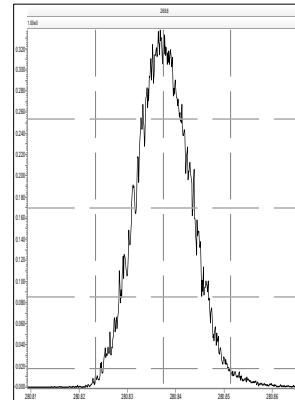
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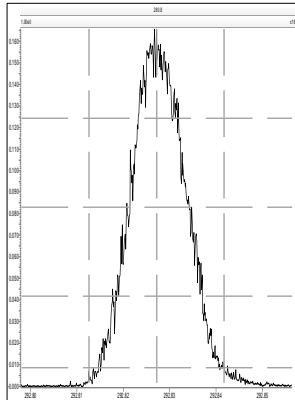
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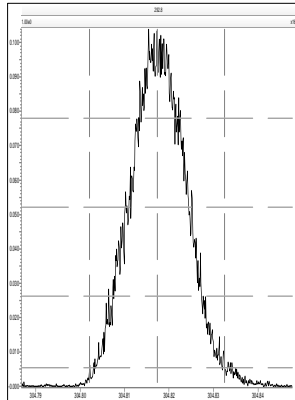
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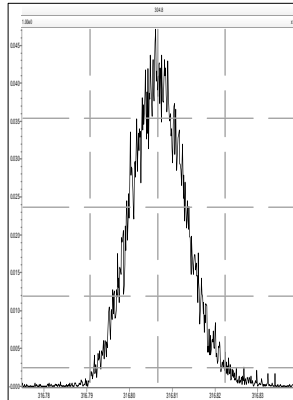
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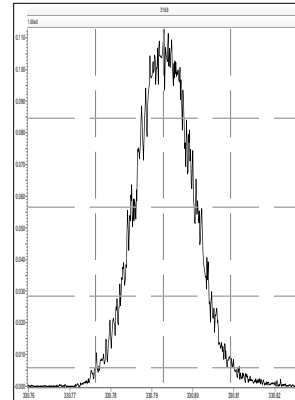
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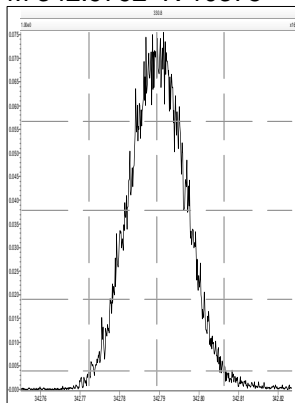
M 316.9824 R 10549



M 330.9792 R 9803



M 342.9792 R 10375



## Experiment Calibration Report

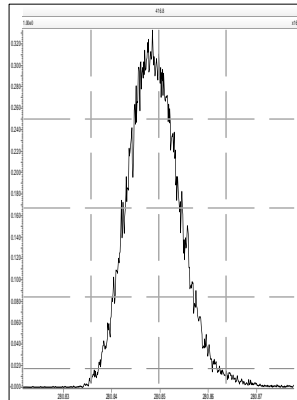
MassLynx 4.1 SCN 881

Page 1 of 1

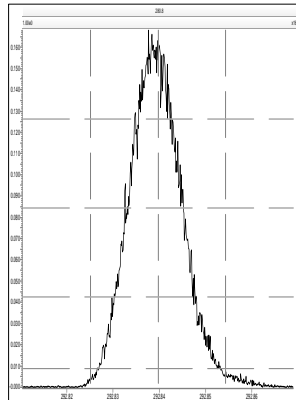
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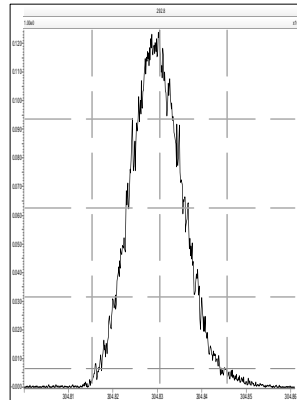
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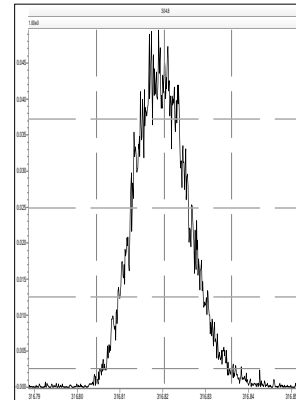
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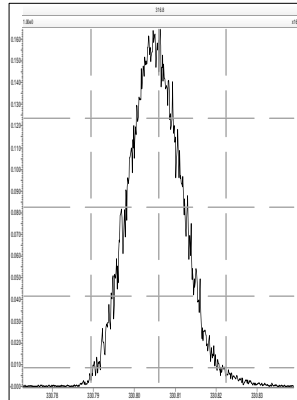
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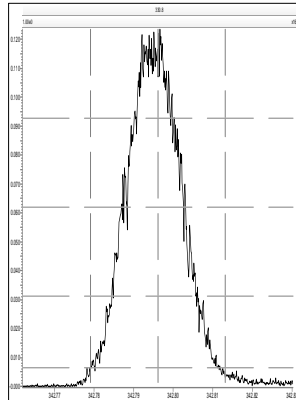
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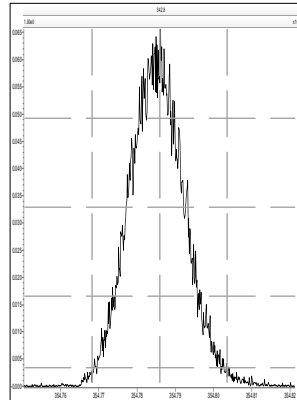
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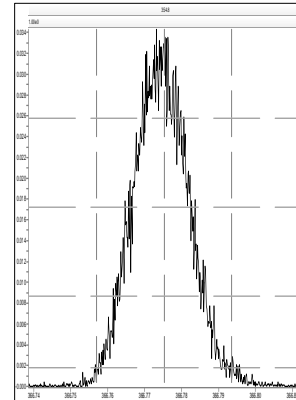
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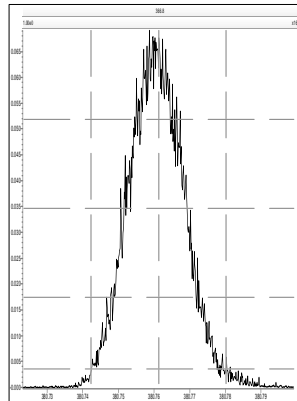
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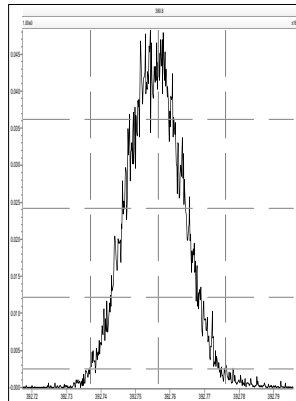
M 366.9792 R 10868



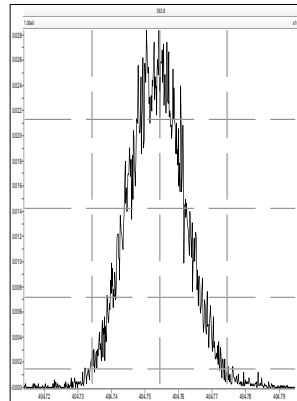
M 380.9760 R 10685



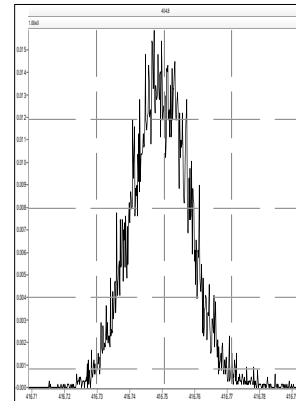
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M 404.9760 R 10290



M 416.9760 R 11464



## Experiment Calibration Report

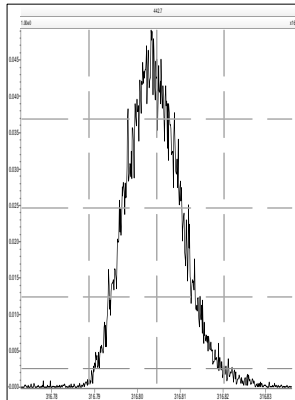
MassLynx 4.1 SCN 881

Page 1 of 1

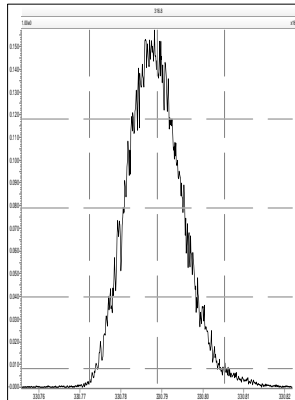
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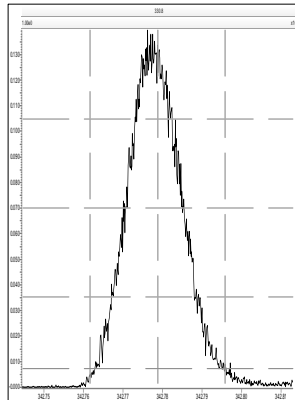
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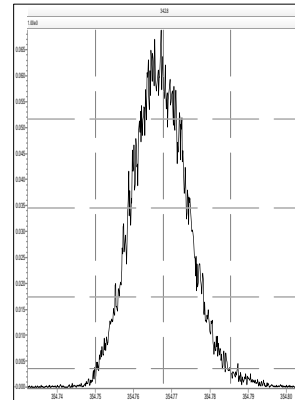
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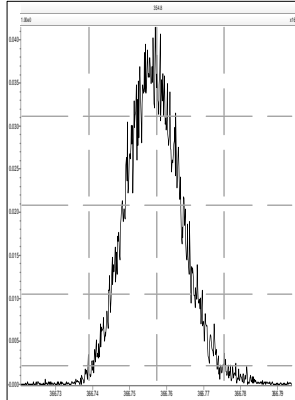
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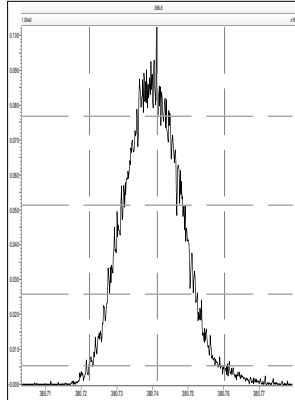
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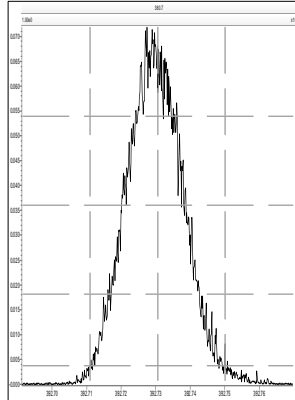
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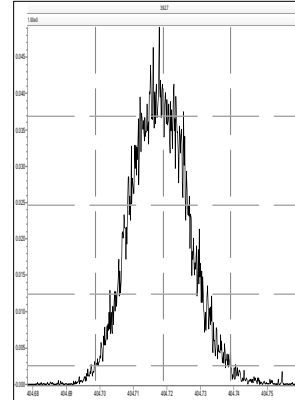
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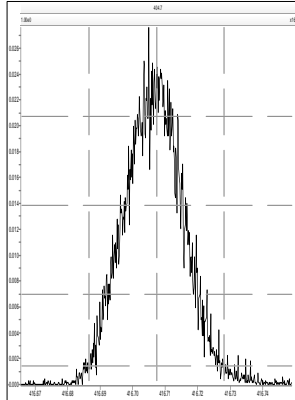
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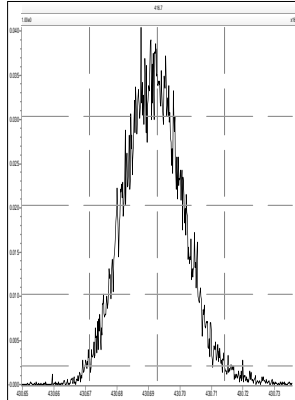
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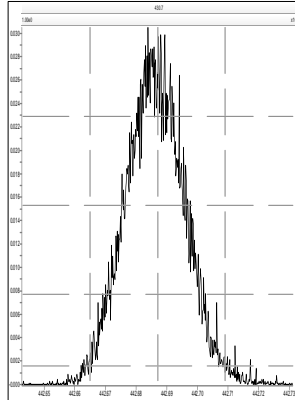
M 416.9760 R 10964



M 430.9728 R 10332



M 442.9728 R 10204



## Experiment Calibration Report

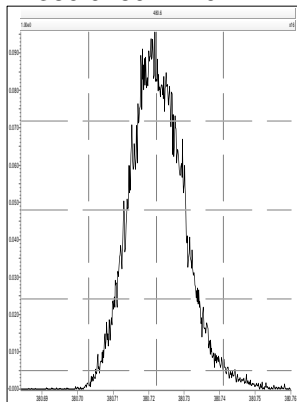
MassLynx 4.1 SCN 881

Page 1 of 1

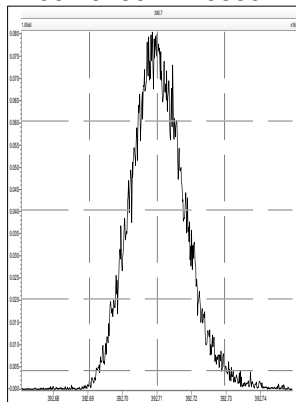
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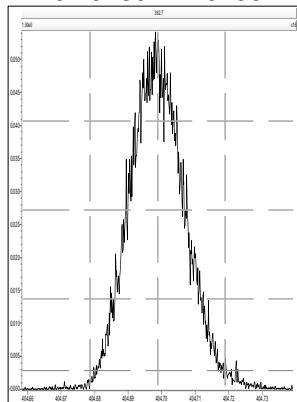
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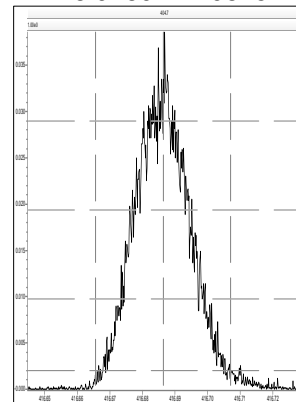
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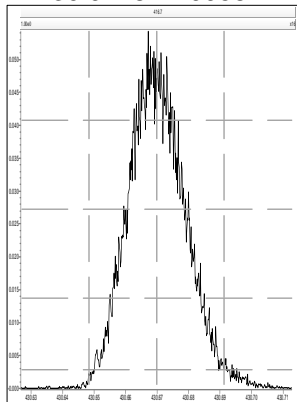
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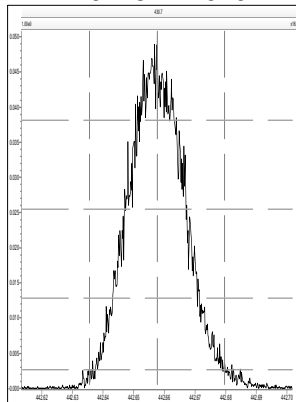
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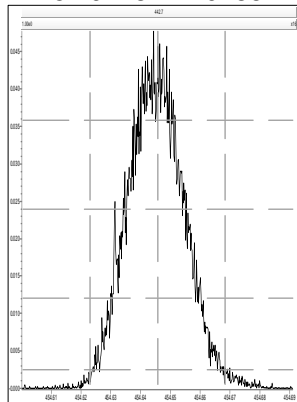
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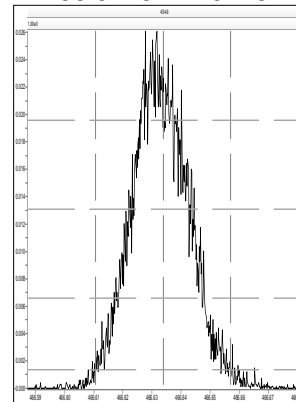
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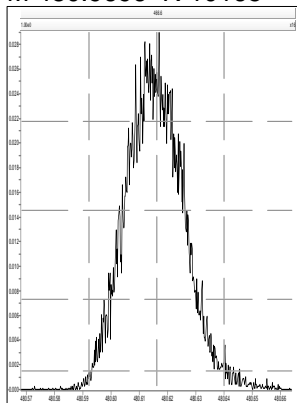
M 454.9728 R 10286



M 466.9728 R 10246



M 480.9696 R 10165



## Experiment Calibration Report

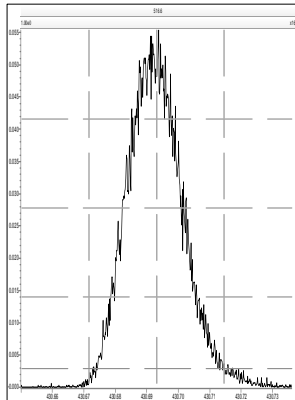
MassLynx 4.1 SCN 881

Page 1 of 1

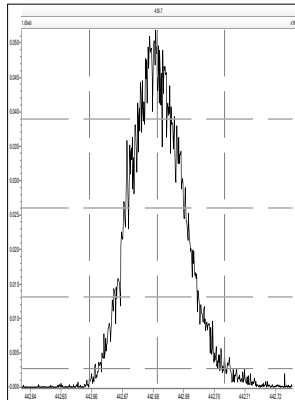
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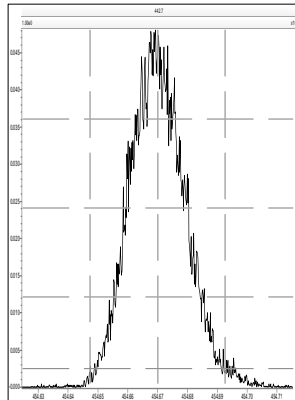
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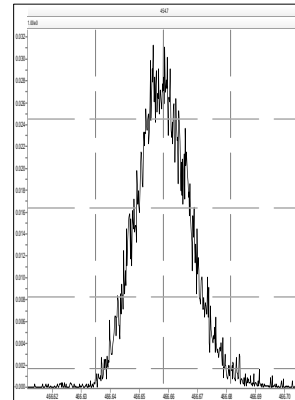
M 442.9728 R 11468



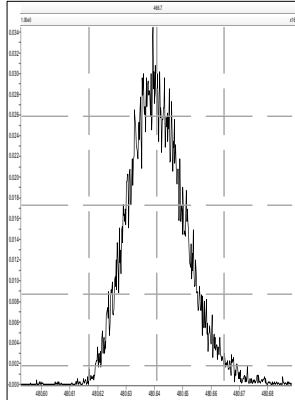
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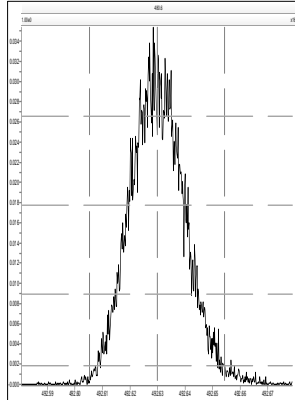
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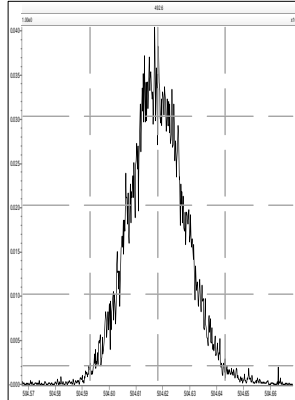
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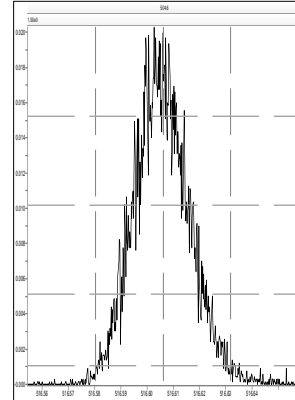
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M 504.9696 R 10504



M 516.9697 R 11012

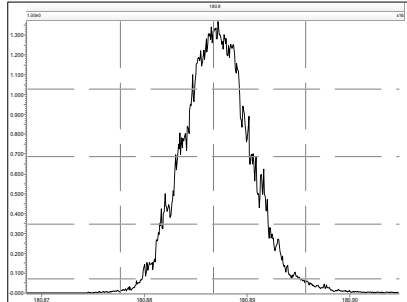


Resolution Check Report

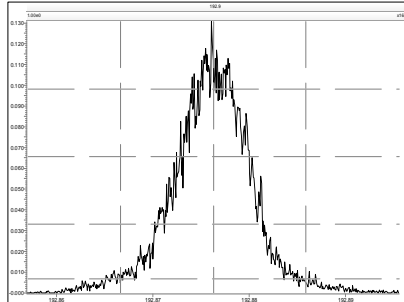
MassLynx 4.1 SCN 881

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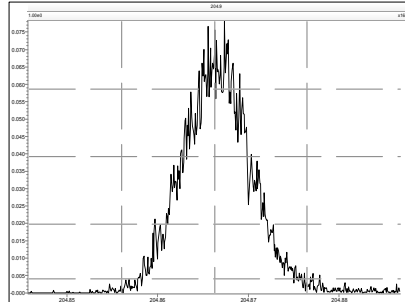
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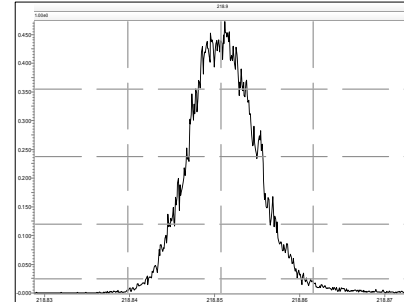
M 192.9888 R 10531



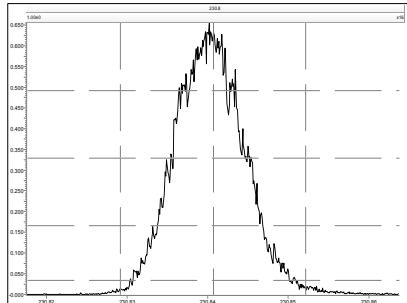
M 204.9888 R 11823



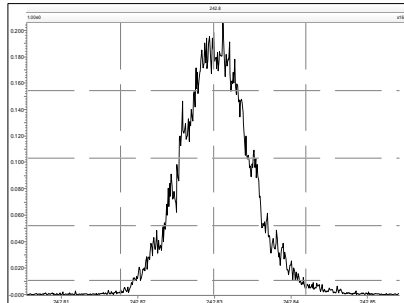
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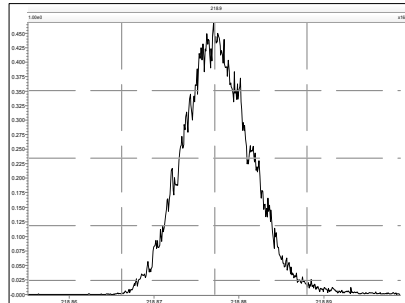
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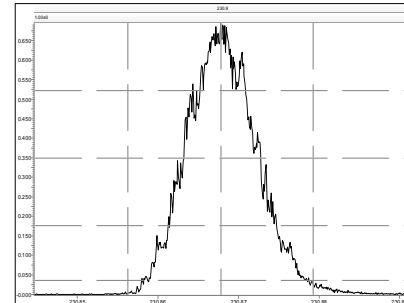
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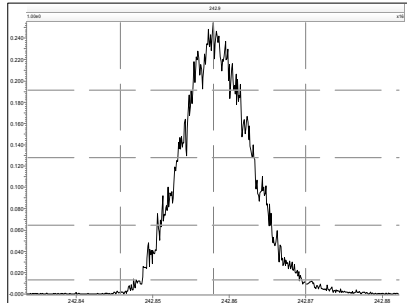
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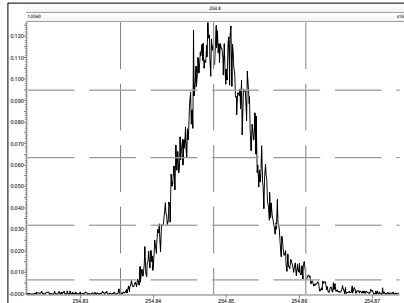
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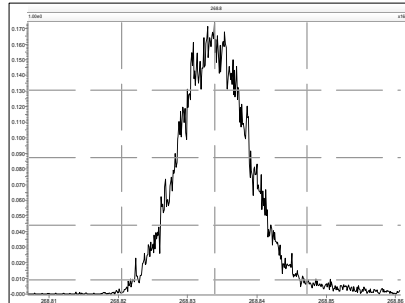
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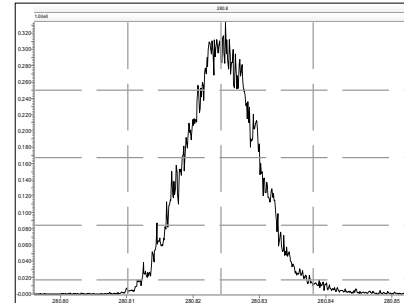
M 254.9856 R 11378



M 268.9824 R 11848



M 280.9824 R 11210

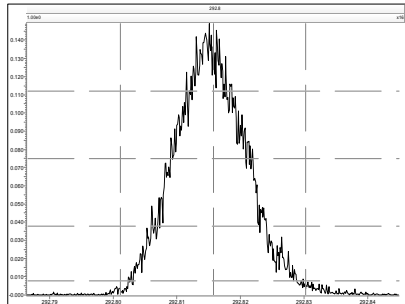


Resolution Check Report

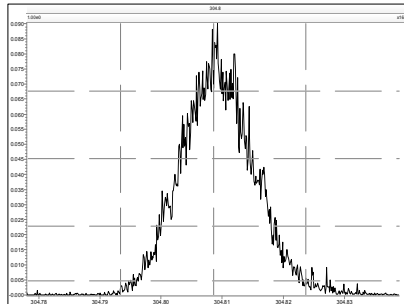
MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

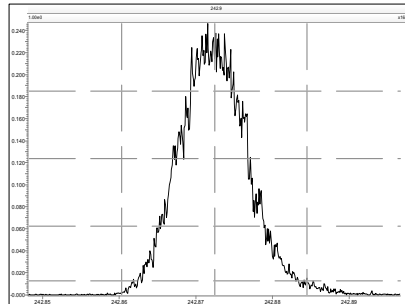
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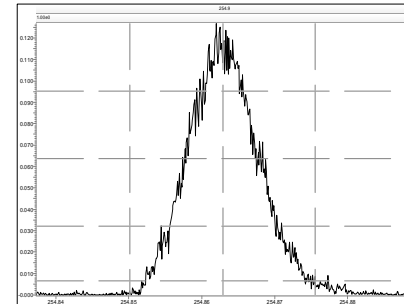
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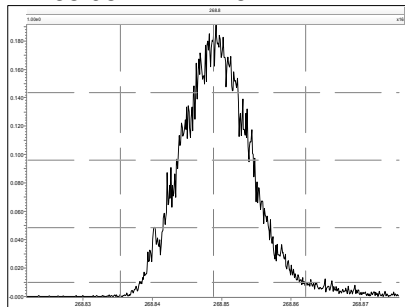
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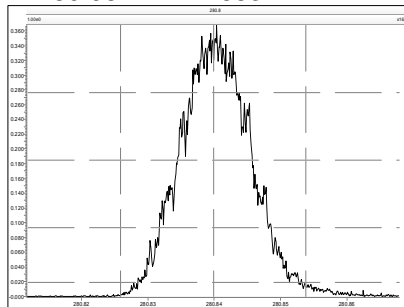
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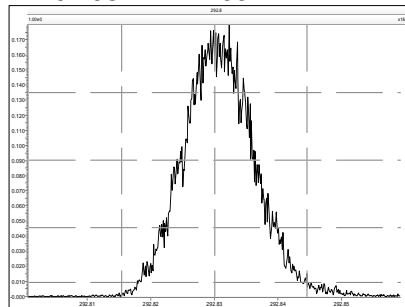
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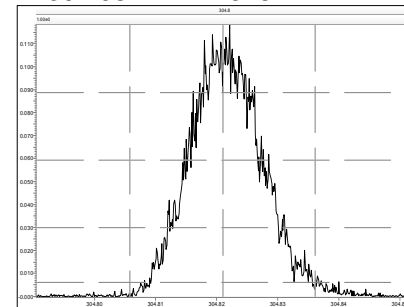
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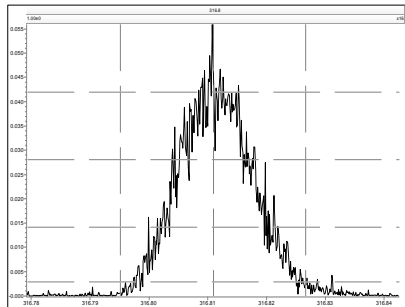
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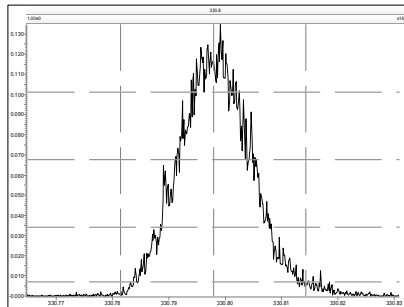
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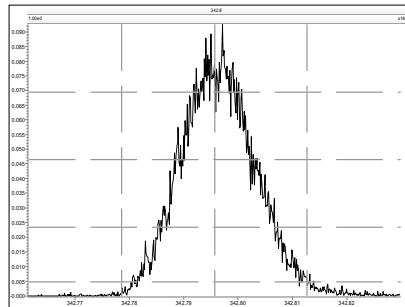
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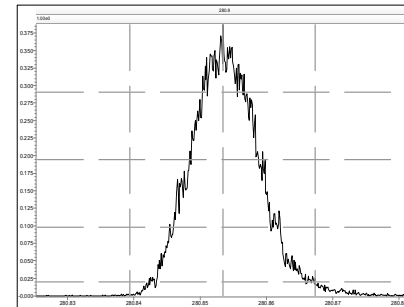
M 330.9792 R 11186



M 342.9792 R 11340



M 280.9824 R 11876





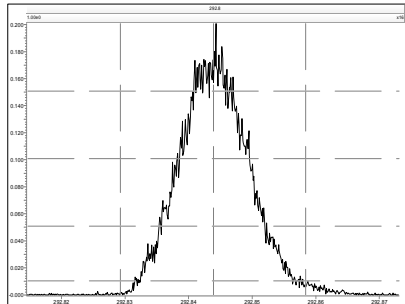
## Resolution Check Report

MassLynx 4.1 SCN 881

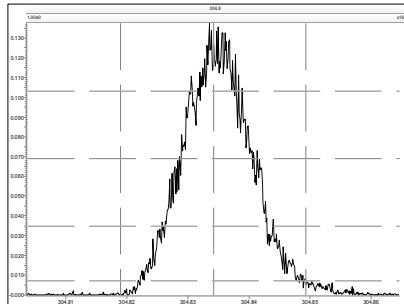
Page 3 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

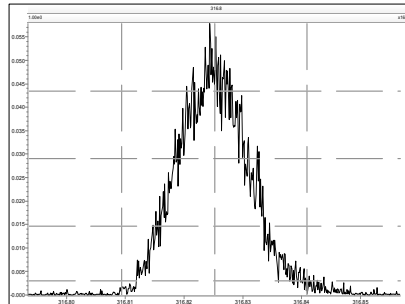
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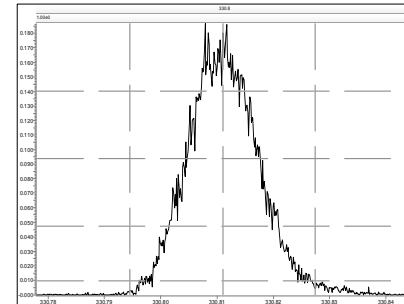
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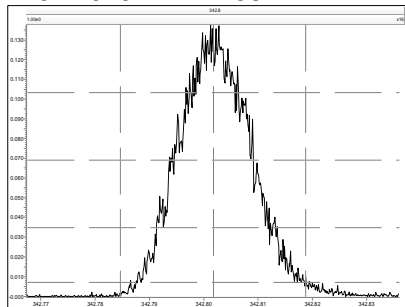
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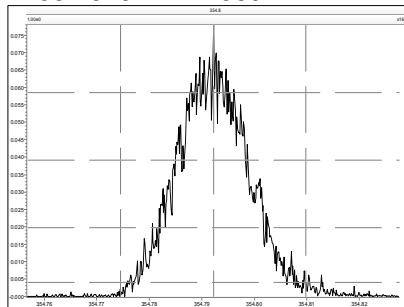
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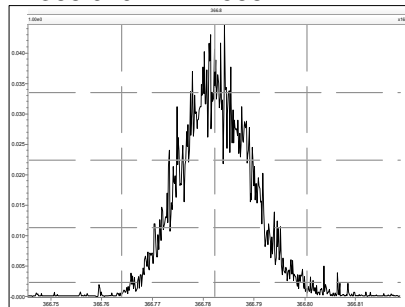
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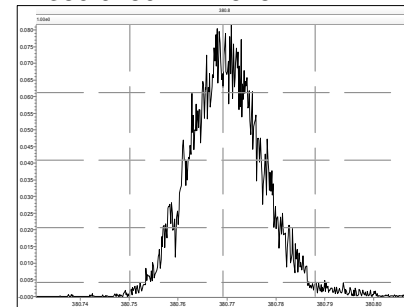
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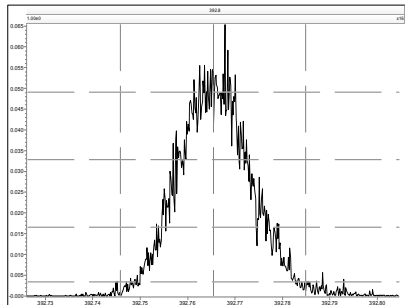
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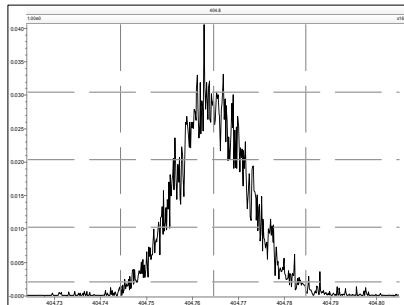
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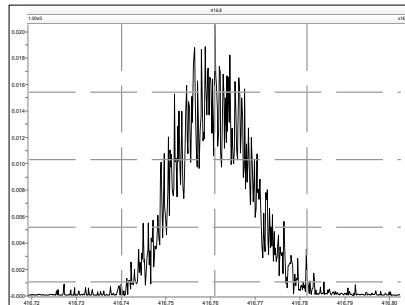
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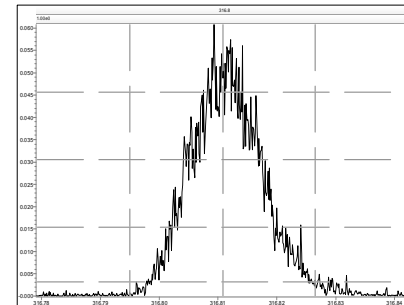
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M 416.9760 R 11574



M 316.9824 R 11467

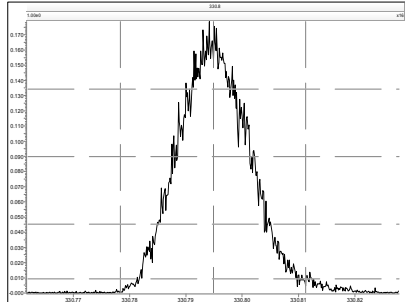


## Resolution Check Report

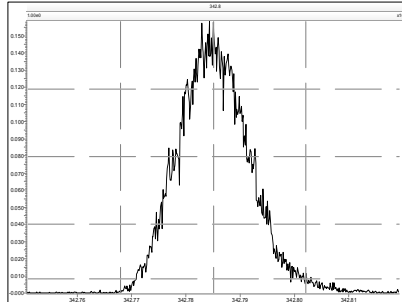
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Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

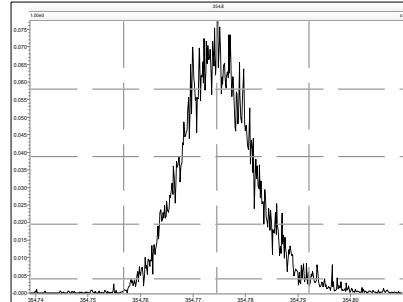
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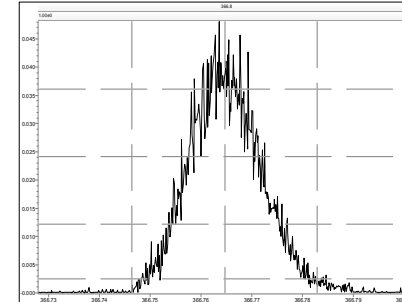
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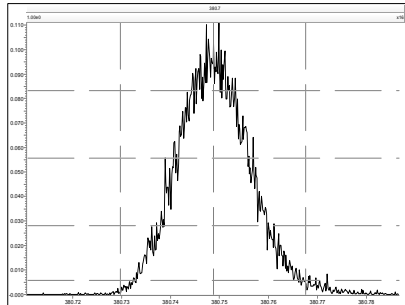
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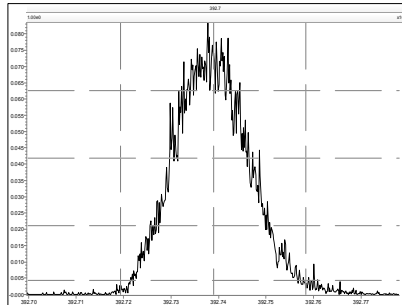
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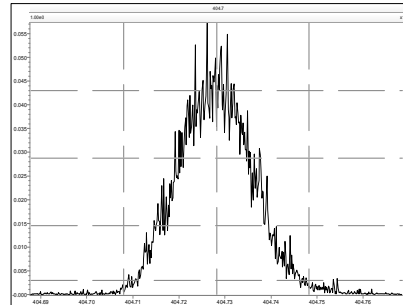
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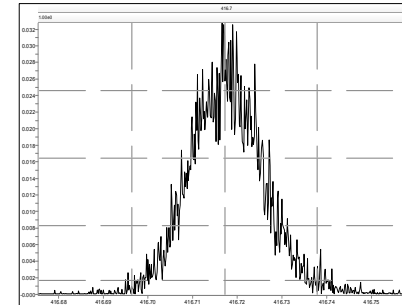
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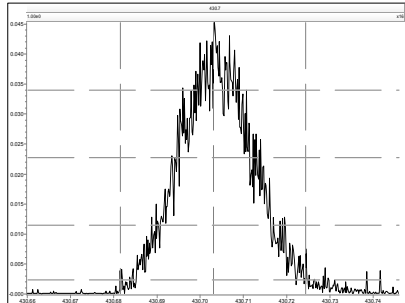
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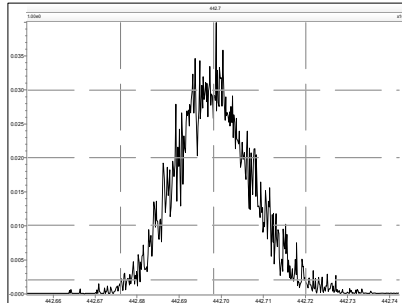
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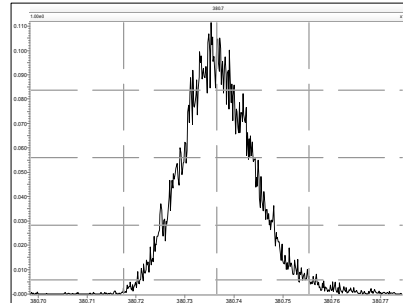
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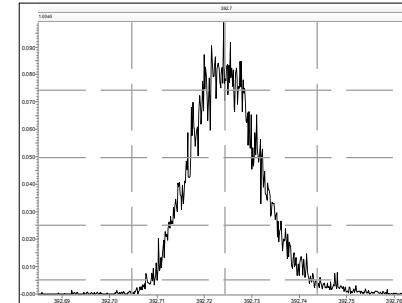
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M 380.9760 R 11522



M 392.9760 R 11852

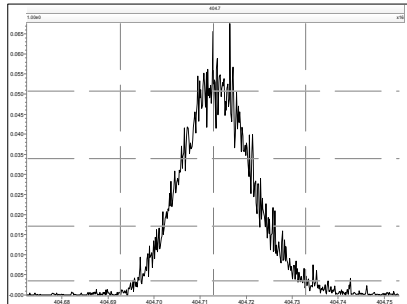


Resolution Check Report

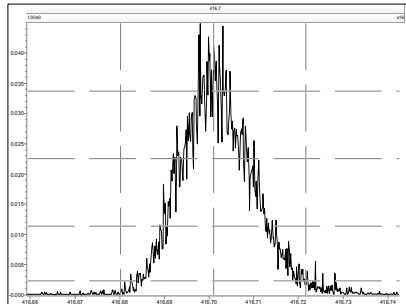
MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

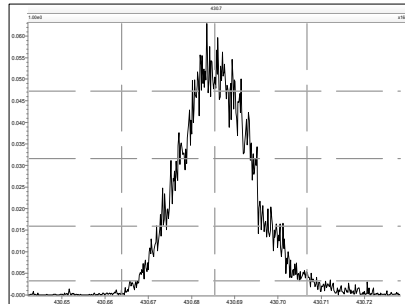
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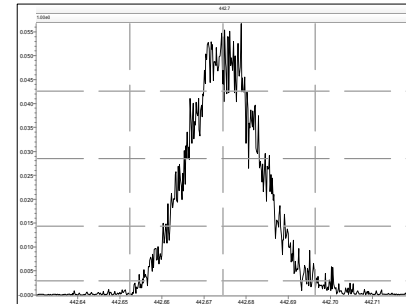
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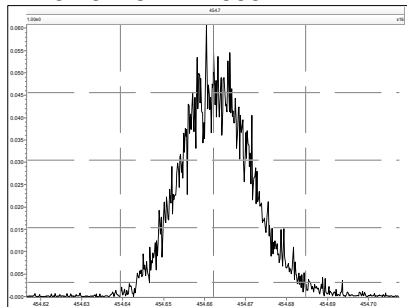
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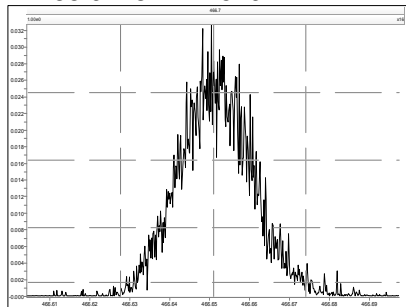
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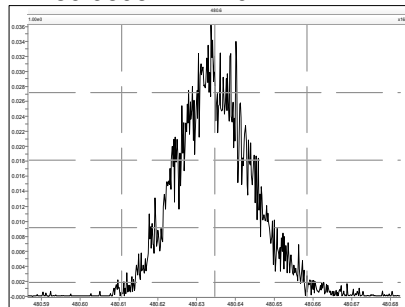
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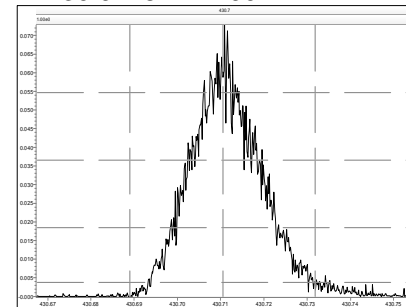
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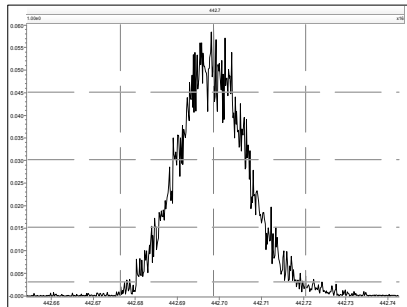
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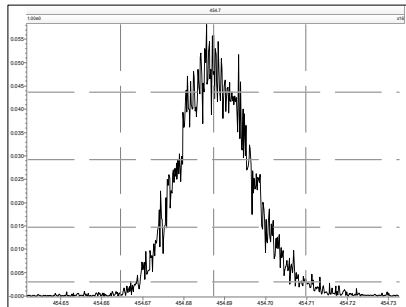
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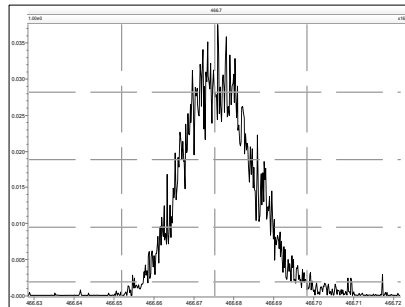
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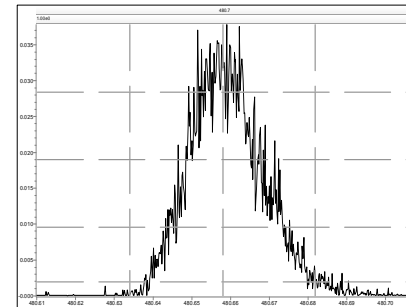
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M 466.9728 R 11628



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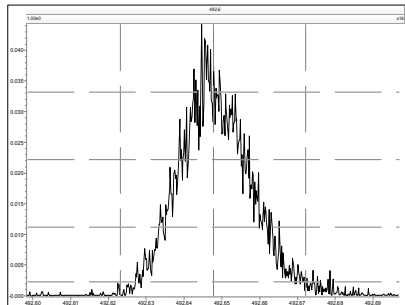
## Resolution Check Report

MassLynx 4.1 SCN 881

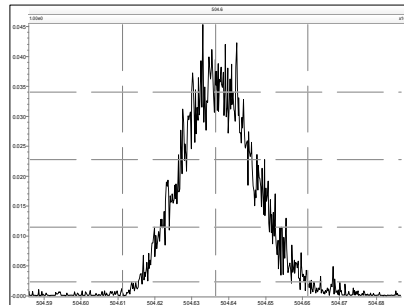
Page 6 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

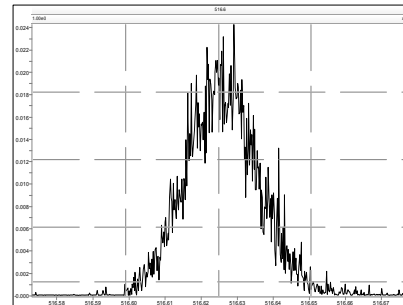
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M 516.9697 R 12194



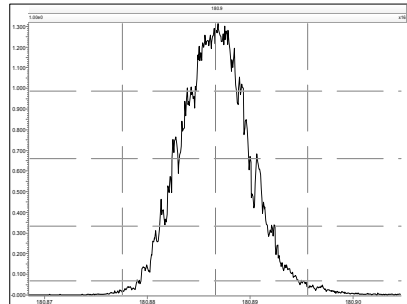
## Resolution Check Report

MassLynx 4.1 SCN 881

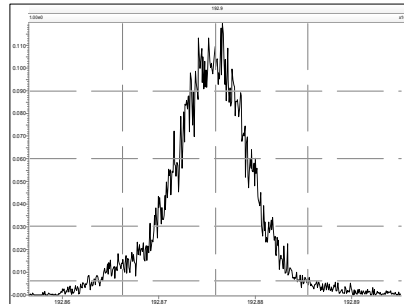
Page 1 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

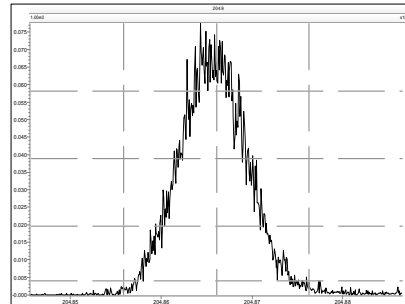
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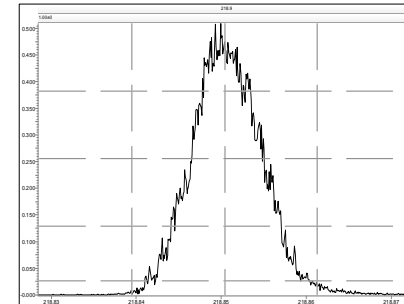
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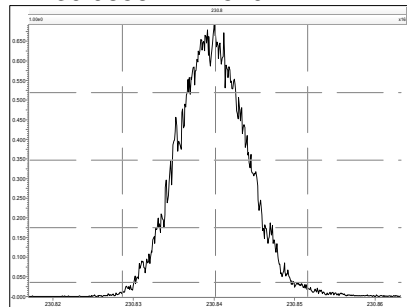
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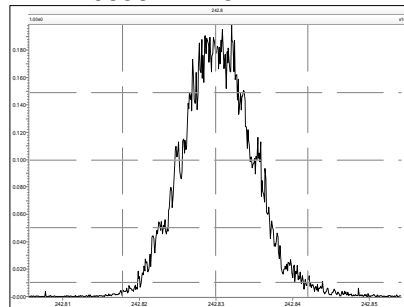
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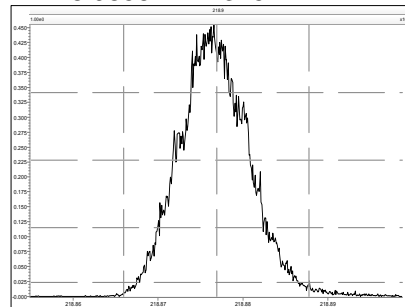
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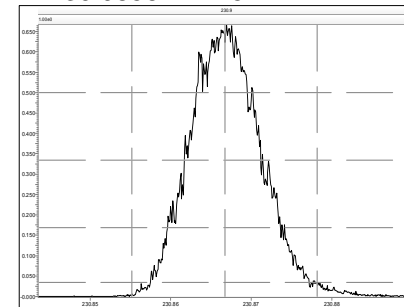
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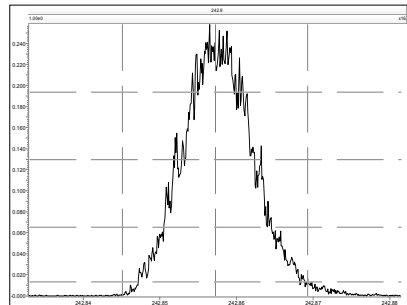
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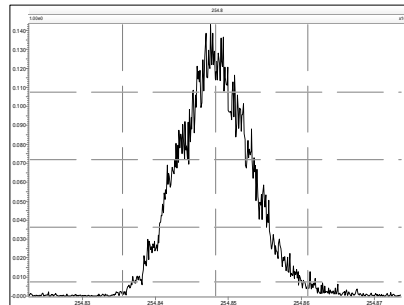
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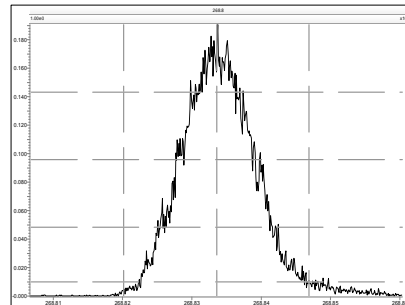
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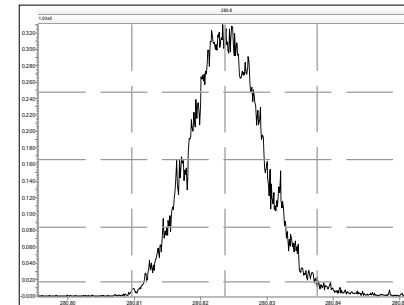
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M 268.9824 R 11118



M 280.9824 R 11012



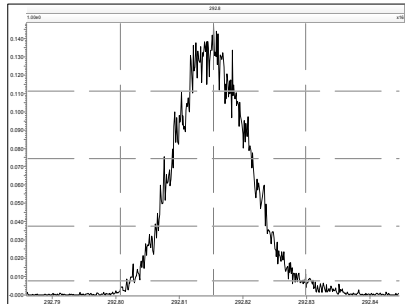
## Resolution Check Report

MassLynx 4.1 SCN 881

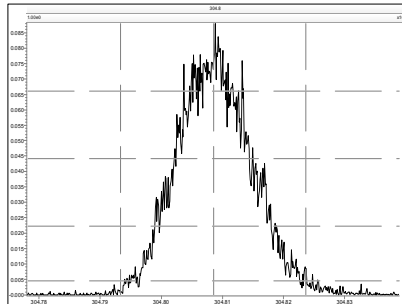
Page 2 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

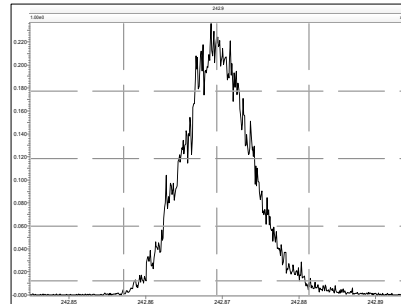
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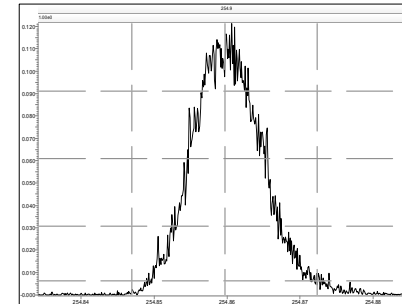
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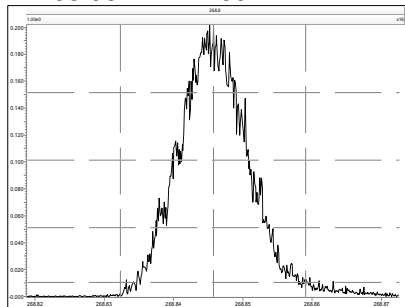
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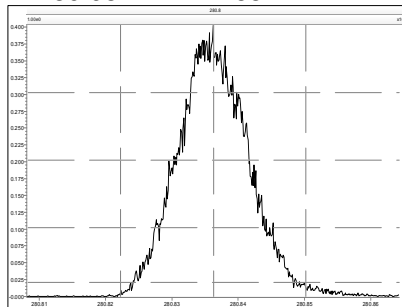
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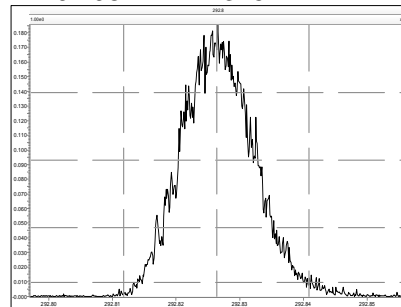
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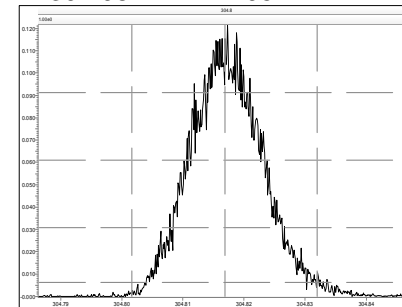
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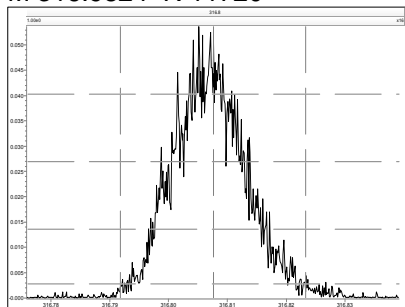
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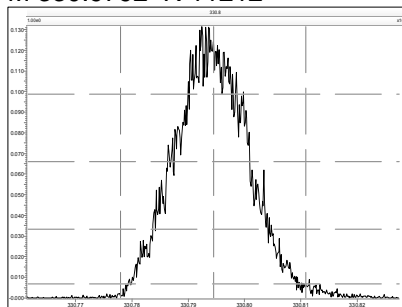
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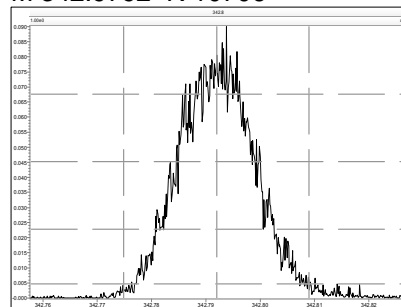
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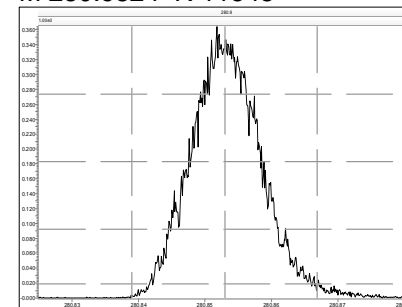
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M 342.9792 R 10706



M 280.9824 R 11548

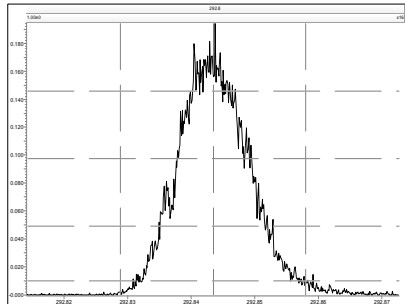


Resolution Check Report

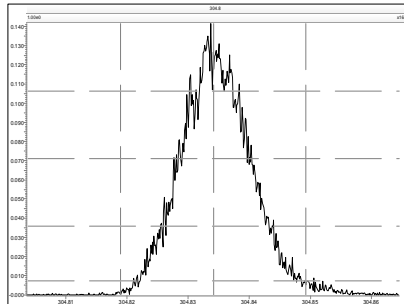
MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

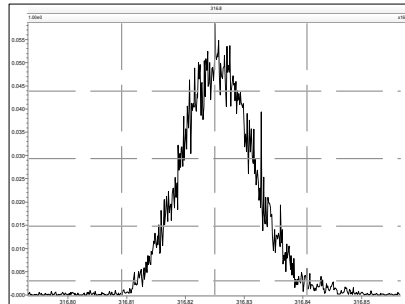
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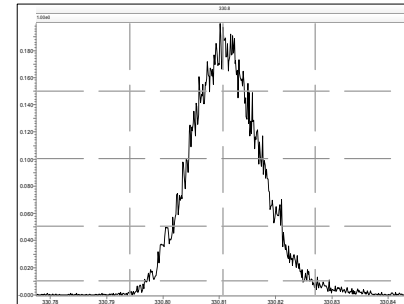
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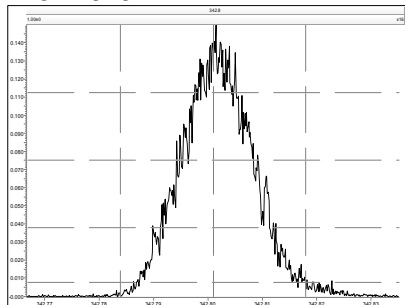
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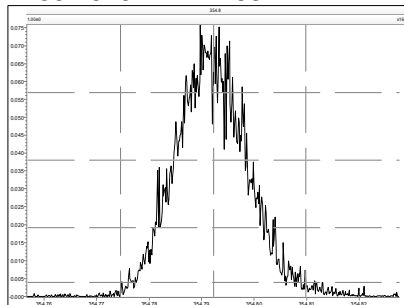
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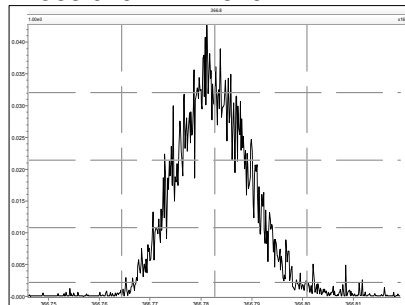
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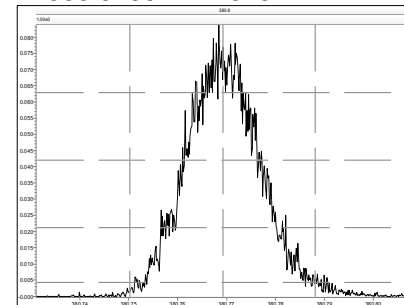
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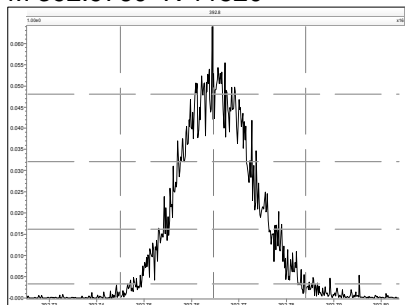
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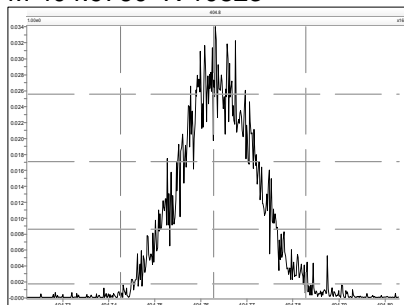
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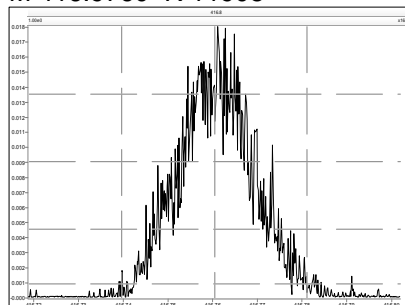
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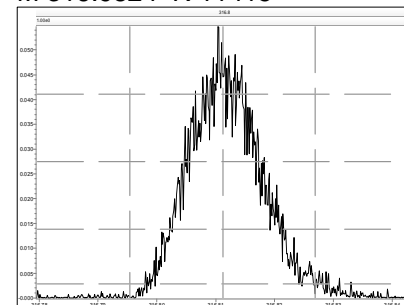
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M 416.9760 R 11908



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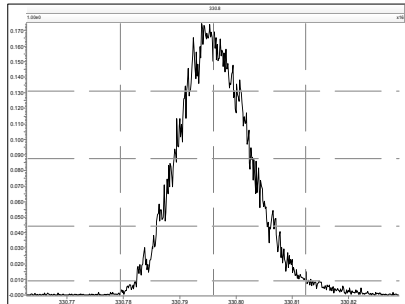


## Resolution Check Report

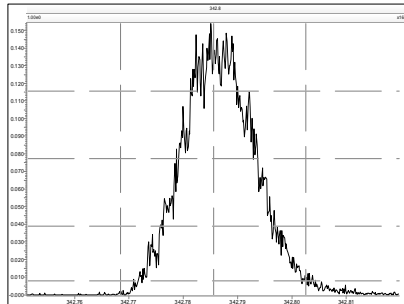
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

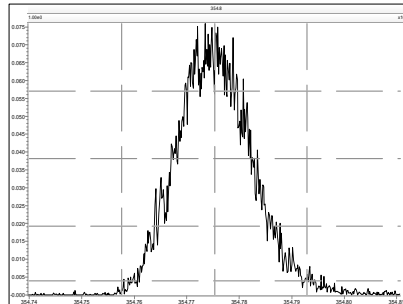
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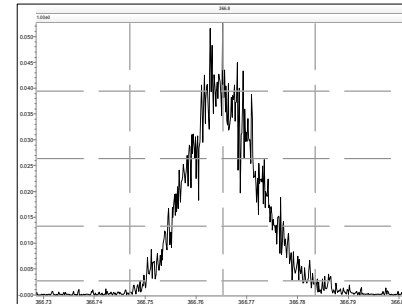
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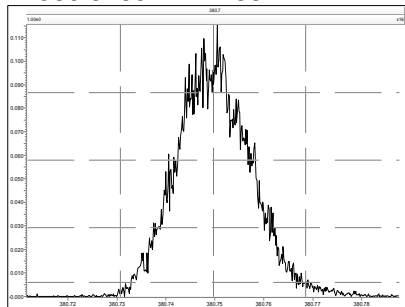
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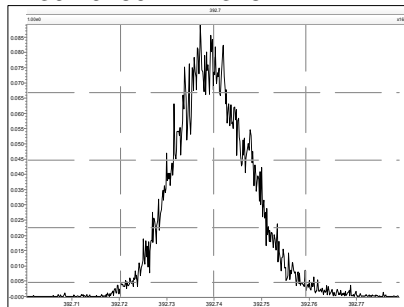
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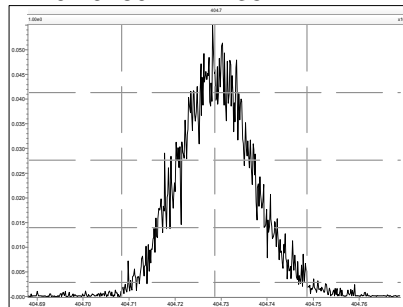
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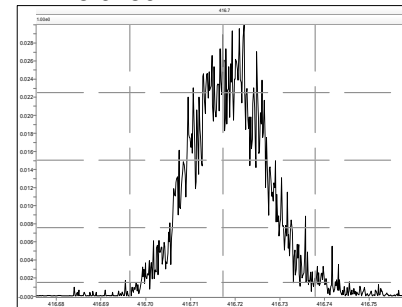
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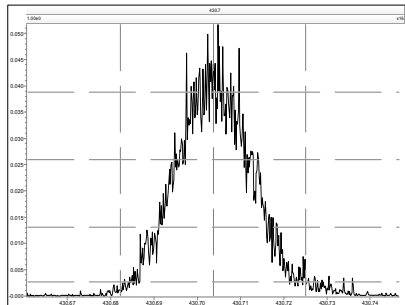
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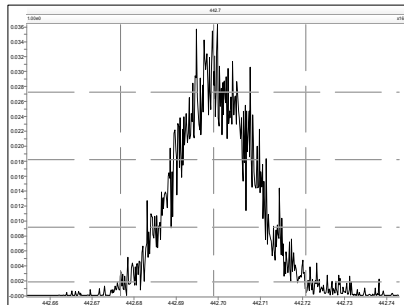
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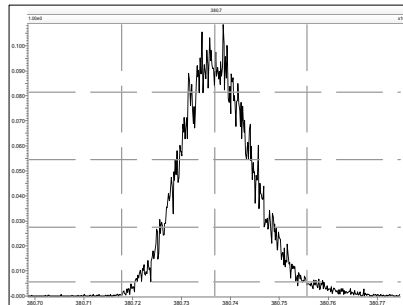
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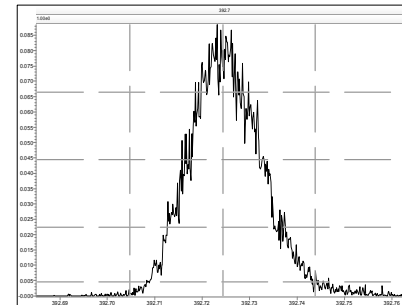
M 442.9728 R 11163



M 380.9760 R 11287



M 392.9760 R 11340



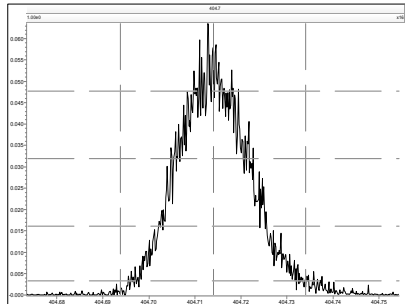


Resolution Check Report

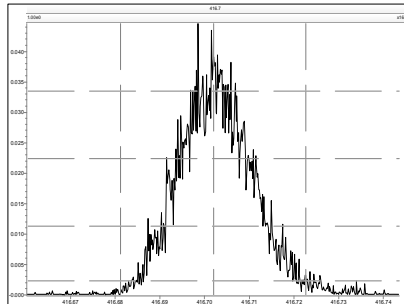
MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

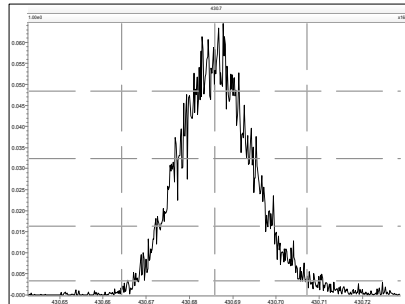
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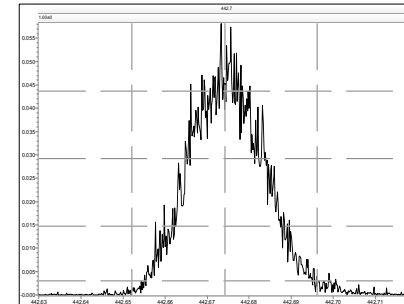
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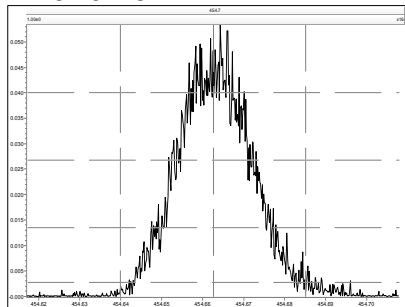
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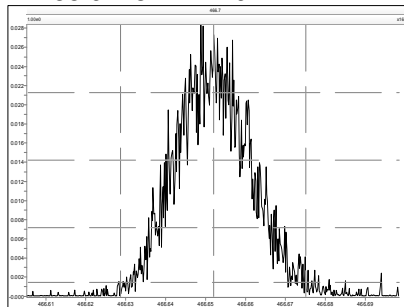
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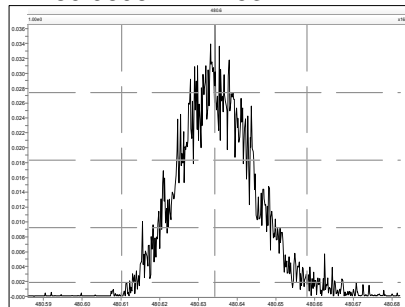
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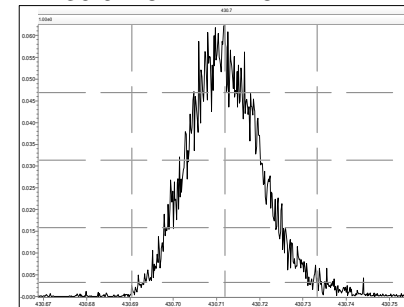
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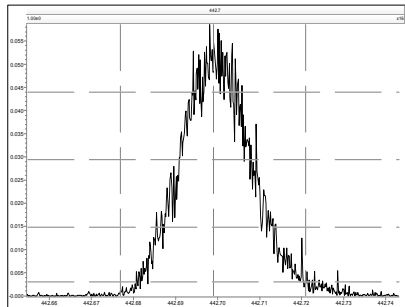
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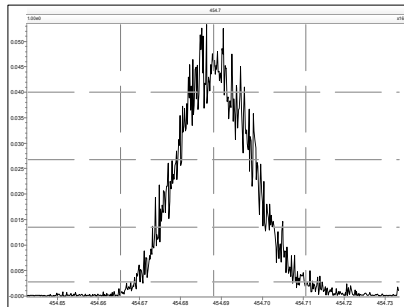
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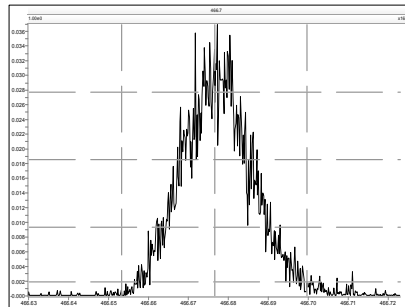
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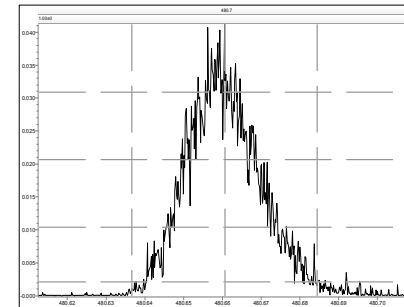
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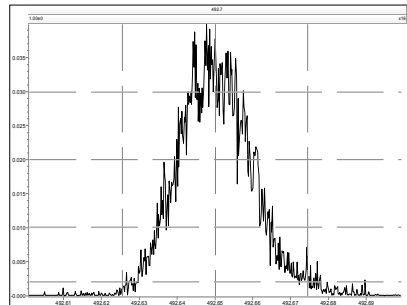
## Resolution Check Report

MassLynx 4.1 SCN 881

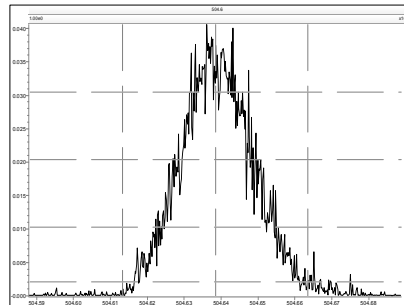
Page 6 of 6

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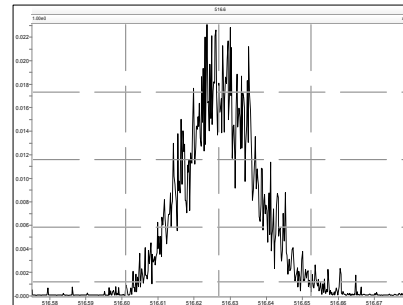
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M 516.9697 R 11848



Lab ID: OPR1\_11892\_PCB-RJ

ACQ: 26-Mar-2014 19:16:37 LKB

Wt/Vol: 1 µL

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Client ID: 0\_11892\_OPR001

UTP: 31-Mar-2014 13:19 CEM

J-level: 10 pg/µL Split: 1

Checkcode: 678-882-ZZP

Datafile: 140326X06

RPT: 31-Mar-2014 18:50 CM

Std (pg): JS: 100 ES: 100 CS/SS: 100

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.82		1.0006	1.0006	0	3.50E+07	0.80	1.15	50	7.06E+04	1.03
PCB-81 344'5'-TeCB	32.34		1.0005	1.0006	+0.2	3.40E+07	0.79	1.12	51.9	7.06E+04	1.08
PCB-105 233'44'-PeCB	35.81		1.0006	1.0007	+0.2	2.72E+07	0.61	1.11	47.5	5.39E+03	0.0961
PCB-114 2344'5'-PeCB	35.26		1.0007	1.0006	-0.2	2.96E+07	0.61	1.20	48.5	5.39E+03	0.0919
PCB-118 23'44'5'-PeCB	34.80		1.0006	1.0006	0	2.86E+07	0.62	1.19	47.8	5.39E+03	0.0897
PCB-123 23'44'5'-PeCB	34.52		1.0006	1.0007	+0.2	2.96E+07	0.61	1.21	48.6	5.39E+03	0.089
PCB-126 33'44'5'-PeCB	38.41		1.0005	1.0005	0	2.62E+07	0.64	1.11	53.9	5.24E+03	0.112
PCB-156/157 ...-HxCB	40.96	C	1.0005	1.0005	0	4.67E+07	1.22	1.10	95.7	6.11E+03	0.172
PCB-167 23'44'55'-HxCB	39.98		1.0006	1.0006	0	2.61E+07	1.23	1.16	48	6.11E+03	0.115
PCB-169 33'44'55'-HxCB	43.67		1.0004	1.0004	0	2.26E+07	1.24	1.12	49.2	6.11E+03	0.139
PCB-189 233'44'55'-HpCB	45.80		1.0004	1.0004	0	2.24E+07	1.06	1.07	52.9	3.20E+03	0.0805
PCB-209 DeCB	50.86		1.0004	1.0004	0	1.35E+07	1.17	1.11	48.5	1.54E+03	0.0649
ES PCB-1	11.89		0.7245	0.7245	0	8.18E+07	3.31	1.19	73.9 %	15%	140%
ES PCB-3	14.18		0.8640	0.8640	0	7.85E+07	3.35	1.09	77.8 %	15%	140%
ES PCB-4	14.43		0.8795	0.8794	-0.1	4.35E+07	1.60	0.52	89.5 %	30%	140%
ES PCB-15	20.14		1.2271	1.2274	+0.4	8.63E+07	1.57	1.04	89.3 %	30%	140%
ES PCB-19	17.52		1.0673	1.0673	0	4.16E+07	1.08	0.51	88.6 %	30%	140%
ES PCB-37	26.47		1.0787	1.0789	+0.3	6.90E+07	1.10	1.66	80.4 %	30%	140%
ES PCB-54	20.43		0.8328	0.8326	-0.2	4.06E+07	0.77	0.86	91.3 %	30%	140%
ES PCB-77	32.80		1.3364	1.3368	+0.8	6.08E+07	0.81	1.38	85.1 %	30%	140%
ES PCB-81	32.32		1.3170	1.3174	+0.8	5.86E+07	0.81	1.37	83 %	30%	140%
ES PCB-104	25.41		0.8325	0.8323	-0.3	4.00E+07	1.61	0.80	101 %	30%	140%
ES PCB-105	35.78		1.1720	1.1723	+0.6	5.15E+07	1.60	1.20	87 %	30%	140%
ES PCB-114	35.24		1.1543	1.1546	+0.6	5.08E+07	1.64	1.22	84.8 %	30%	140%
ES PCB-118	34.78		1.1391	1.1393	+0.4	5.02E+07	1.54	1.16	88.1 %	30%	140%
ES PCB-123	34.50		1.1299	1.1301	+0.4	5.03E+07	1.56	1.19	86.2 %	30%	140%
ES PCB-126	38.39		1.2575	1.2578	+0.7	4.39E+07	1.58	1.03	86.8 %	30%	140%
ES PCB-153	36.36		0.9716	0.9716	0	3.71E+07	1.29	1.11	85.3 %	30%	140%
ES PCB-155	30.36		0.8114	0.8112	-0.4	5.21E+07	1.26	1.59	84.5 %	30%	140%
ES PCB-156/157	40.94		1.0939	1.0940	+0.2	8.89E+07	1.27	1.60	71.6 %	30%	140%
ES PCB-167	39.96		1.0677	1.0677	0	4.68E+07	1.26	1.67	72.3 %	30%	140%
ES PCB-169	43.65		1.1664	1.1665	+0.3	4.09E+07	1.25	1.56	67.8 %	30%	140%
ES PCB-170	43.17		0.9081	0.9080	-0.3	2.67E+07	1.08	0.95	85 %	30%	140%
ES PCB-180	42.10		0.8856	0.8856	0	3.29E+07	1.11	1.14	87.2 %	30%	140%
ES PCB-188	35.23		0.7413	0.7411	-0.4	3.56E+07	1.06	0.94	97.7 %	30%	140%
ES PCB-189	45.78		0.9629	0.9629	0	3.95E+07	1.03	1.58	89.8 %	30%	140%
ES PCB-202	39.77		0.8366	0.8365	-0.2	3.44E+07	0.90	0.97	91.5 %	30%	140%
ES PCB-205	47.94		1.0084	1.0084	0	2.87E+07	0.89	1.24	83.1 %	30%	140%
ES PCB-206	49.41		1.0392	1.0392	0	2.02E+07	0.80	0.83	87.8 %	30%	140%
ES PCB-208	45.40		0.9549	0.9548	-0.3	3.20E+07	0.79	1.17	98 %	30%	140%
ES PCB-209	50.84		1.0694	1.0694	0	2.50E+07	1.17	1.11	81.2 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.91		0.9339	0.9339	0	8.08E+07	1.09	1.11	105 %	40%	125%
SS PCB-111	32.82		1.0750	1.0751	+0.2	5.66E+07	1.57	1.03	109 %	40%	125%
SS PCB-178	37.80		1.0100	1.0100	0	2.45E+07	1.07	0.62	111 %	40%	125%
CS PCB-28	22.91		0.9339	0.9339	0	8.08E+07	1.09	1.85	84.8 %	40%	125%
CS PCB-111	32.82		1.0750	1.0751	+0.2	5.66E+07	1.57	1.22	94.3 %	40%	125%
CS PCB-178	37.80		1.0100	1.0100	0	2.45E+07	1.07	0.58	109 %	40%	125%
JS PCB-9	16.41					9.29E+07	1.54				
JS PCB-52	24.54					5.16E+07	0.79				
JS PCB-101	30.52					4.92E+07	1.61				
JS PCB-138	37.42					3.88E+07	1.28				
JS PCB-194	47.54					2.78E+07	0.91				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			160		160		0.054	
			Di-CBs			588		588		0.097	
			Tri-CBs			1,170		1,170		0.103	
			Tetra-CBs			2,050		2,050		0.454	
			Penta-CBs			2,240		2,240		0.084	
			Hexa-CBs			2,090		2,090		0.112	
			Hepta-CBs			1,230		1,230		0.143	
			Octa-CBs			604		604		0.068	
			Nona-CBs			150		150		0.146	
PCB-1 2-MoCB	11.90		1.0011	1.0011	0	4.30E+07	3.30	0.95	55.1	6.14E+03	0.0501
PCB-2 3-MoCB	14.01		0.9880	0.9880	0	4.42E+07	3.35	1.12	50.4	6.14E+03	0.0523
PCB-3 4-MoCB	14.19		1.0010	1.0010	0	4.29E+07	3.34	1.01	54.2	6.14E+03	0.058
PCB-4 22'-DiCB	14.45		1.0011	1.0011	0	2.55E+07	1.61	1.23	47.6	8.41E+03	0.116
PCB-10 26-DiCB	14.63		1.0135	1.0135	0	4.16E+07	1.59	1.92	49.9	8.41E+03	0.0743
PCB-9 25-DiCB	16.43		1.0010	1.0010	0	3.93E+07	1.65	0.96	47.5	7.53E+03	0.0834
PCB-7 24-DiCB	16.59		1.0111	1.0111	0	4.58E+07	1.67	1.10	48.3	7.53E+03	0.0727
PCB-6 23'-DiCB	16.82		1.0249	1.0249	0	4.28E+07	1.64	1.01	49	7.53E+03	0.079
PCB-5 23-DiCB	17.12		1.0433	1.0434	+0.1	4.24E+07	1.65	1.01	48.6	7.53E+03	0.0791
PCB-8 24'-DiCB	17.24		1.0506	1.0506	0	4.38E+07	1.67	1.06	47.7	7.53E+03	0.0753
PCB-14 35-DiCB	18.80		0.9334	0.9333	-0.1	5.15E+07	1.65	1.21	49.2	7.53E+03	0.0659
PCB-11 33'-DiCB	19.58		0.9721	0.9720	-0.1	4.58E+07	1.64	1.06	49.8	7.53E+03	0.0751
PCB-13/12 34' /34-DiCB	19.87	C	0.9866	0.9866	0	8.98E+07	1.65	1.05	99.1	7.53E+03	0.0762
PCB-15 44'-DiCB	20.16		1.0008	1.0008	0	4.55E+07	1.63	1.02	51.8	7.53E+03	0.0784
PCB-19 22'6-TrCB	17.53		1.0010	1.0010	0	2.31E+07	1.04	1.15	48.2	5.36E+03	0.0924
PCB-30/18 246/22'5-TrCB	19.29	C	1.1014	1.1015	+0.1	6.40E+07	1.04	1.54	99.8	5.36E+03	0.0688
PCB-17 22'4-TrCB	19.70		1.1243	1.1244	+0.1	2.75E+07	1.05	1.32	50.1	5.36E+03	0.0805
PCB-27 23'6-TrCB	19.89		1.1353	1.1355	+0.2	3.74E+07	1.04	1.79	50	5.36E+03	0.0591
PCB-24 236-TrCB	20.02		1.1430	1.1431	+0.1	3.54E+07	1.05	1.72	49.6	5.36E+03	0.0618
PCB-16 22'3-TrCB	20.12		1.1484	1.1485	+0.1	2.16E+07	1.06	0.98	52.8	5.36E+03	0.108

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.60		1.1758	1.1760	+0.2	4.01E+07	1.05	1.92	50	5.36E+03	0.0551
PCB-34 23'5'-TrCB	21.75		0.8218	0.8216	-0.3	4.03E+07	1.00	1.23	47.5	8.81E+03	0.0997
PCB-23 235-TrCB	21.90		0.8275	0.8274	-0.1	3.98E+07	1.00	1.25	46.2	8.81E+03	0.0984
PCB-26/29 23'5'/245-TrCB	22.18	C	0.8383	0.8381	-0.3	8.19E+07	1.01	1.27	93.7	8.81E+03	0.0969
PCB-25 23'4-TrCB	22.38		0.8456	0.8455	-0.1	4.05E+07	1.01	1.27	46	8.81E+03	0.0963
PCB-31 24'5-TrCB	22.66		0.8562	0.8561	-0.1	4.28E+07	1.00	1.33	46.6	8.81E+03	0.0923
PCB-28/20 244'/233'-TrCB	22.95	C	0.8670	0.8668	-0.3	8.07E+07	1.01	1.23	94.8	8.81E+03	0.0994
PCB-21/33 234/23'4'-TrCB	23.13	C	0.8738	0.8737	-0.1	8.36E+07	1.01	1.27	95.7	8.81E+03	0.0969
PCB-22 234'-TrCB	23.50		0.8880	0.8878	-0.3	3.92E+07	1.01	1.18	48	8.81E+03	0.104
PCB-36 33'5-TrCB	24.88		0.9401	0.9401	0	4.31E+07	1.00	1.29	48.2	8.81E+03	0.0948
PCB-39 34'5-TrCB	25.20		0.9522	0.9521	-0.2	4.44E+07	1.00	1.34	47.9	8.81E+03	0.0915
PCB-38 345-TrCB	25.74		0.9723	0.9723	0	4.06E+07	1.01	1.22	48.3	8.81E+03	0.101
PCB-35 33'4-TrCB	26.13		0.9871	0.9871	0	3.95E+07	1.01	1.17	49	8.81E+03	0.105
PCB-37 344'-TrCB	26.49		1.0007	1.0008	+0.2	4.06E+07	1.01	1.08	54.5	8.81E+03	0.114
PCB-54 22'66'-TeCB	20.45		1.0010	1.0010	0	2.62E+07	0.80	1.35	47.8	2.33E+03	0.0375
PCB-50/53 22'46/22'56'-TeCB	22.44	C	0.9145	0.9144	-0.1	4.97E+07	0.79	0.91	93.6	3.29E+03	0.0622
PCB-45 22'36-TeCB	23.02		0.9383	0.9383	0	2.06E+07	0.77	0.82	42.7	3.29E+03	0.0686
PCB-51 22'46'-TeCB	23.09		0.9413	0.9412	-0.1	2.62E+07	0.80	0.88	51	3.29E+03	0.0643
PCB-46 22'36'-TeCB	23.30		0.9499	0.9498	-0.1	2.03E+07	0.78	0.73	47.2	3.29E+03	0.0768
PCB-52 22'55'-TeCB	24.56		1.0009	1.0009	0	2.52E+07	0.79	0.89	48.3	3.29E+03	0.0632
PCB-73 23'5'6-TeCB	24.69		1.0062	1.0062	0	3.37E+07	0.78	1.18	49	3.29E+03	0.048
PCB-43 22'35-TeCB	24.78		1.0101	1.0101	0	2.08E+07	0.79	0.76	46.4	3.29E+03	0.0738
PCB-69/49 23'46/22'45'-TeCB	24.98	C	1.0181	1.0181	0	6.11E+07	0.79	1.09	95.9	3.29E+03	0.0518
PCB-48 22'45-TeCB	25.26		1.0295	1.0296	+0.2	2.49E+07	0.79	0.89	47.7	3.29E+03	0.0633
PCB-44/47/65 ...-TeCB	25.48	C	1.0384	1.0384	0	8.02E+07	0.79	0.95	145	3.29E+03	0.0595
PCB-59/62/75 ...-TeCB	25.75	C	1.0496	1.0497	+0.2	1.04E+08	0.79	1.24	142	3.29E+03	0.0454
PCB-42 22'34'-TeCB	25.92		1.0563	1.0564	+0.2	2.35E+07	0.78	0.82	49.1	3.29E+03	0.0691
PCB-41 22'34-TeCB	26.25		1.0698	1.0699	+0.2	1.96E+07	0.76	0.75	44.6	3.29E+03	0.0754
PCB-71/40 23'4'6/22'33'-TeCB	26.35	C	1.0737	1.0738	+0.2	5.37E+07	0.78	0.91	101	3.29E+03	0.0623
PCB-64 234'6-TeCB	26.55		1.0819	1.0820	+0.2	3.73E+07	0.79	1.31	48.6	3.29E+03	0.043
PCB-72 23'55'-TeCB	27.26		0.8436	0.8434	-0.3	3.64E+07	0.79	1.27	49	7.06E+04	0.954
PCB-68 23'45'-TeCB	27.52		0.8515	0.8514	-0.2	3.80E+07	0.79	1.32	49	7.06E+04	0.914
PCB-57 233'5-TeCB	27.89		0.8630	0.8629	-0.2	3.51E+07	0.80	1.21	49.7	7.06E+04	1
PCB-58 233'5'-TeCB	28.09		0.8693	0.8691	-0.3	3.63E+07	0.80	1.22	50.7	7.06E+04	0.991
PCB-67 23'45-TeCB	28.25		0.8741	0.8740	-0.2	3.66E+07	0.78	1.29	48.4	7.06E+04	0.936
PCB-63 234'5-TeCB	28.48		0.8811	0.8810	-0.2	3.92E+07	0.79	1.36	49.3	7.06E+04	0.891
PCB-61/70/74/76 ...-TeCB	28.77	C	0.8902	0.8901	-0.2	1.44E+08	0.79	1.22	201	7.06E+04	0.992
PCB-66 23'44'-TeCB	29.05		0.8989	0.8988	-0.2	3.43E+07	0.80	1.17	50	7.06E+04	1.03
PCB-55 233'4-TeCB	29.20		0.9034	0.9033	-0.2	3.36E+07	0.80	1.15	49.8	7.06E+04	1.05
PCB-56 233'4'-TeCB	29.63		0.9169	0.9168	-0.2	3.38E+07	0.80	1.16	49.8	7.06E+04	1.05
PCB-60 2344'-TeCB	29.83		0.9229	0.9228	-0.2	3.41E+07	0.80	1.17	49.9	7.06E+04	1.04
PCB-80 33'55'-TeCB	30.15		0.9329	0.9328	-0.2	3.95E+07	0.79	1.38	48.9	7.06E+04	0.876
PCB-79 33'45'-TeCB	31.47		0.9737	0.9737	0	3.89E+07	0.80	1.32	50.5	7.06E+04	0.92
PCB-78 33'45-TeCB	31.96		0.9889	0.9889	0	3.31E+07	0.80	1.11	50.9	7.06E+04	1.09
PCB-104 22'466'-PeCB	25.43		1.0009	1.0009	0	2.71E+07	0.64	1.43	47.3	1.60E+03	0.0256
PCB-96 22'366'-PeCB	25.75		1.0134	1.0134	0	2.32E+07	0.63	1.17	49.8	1.60E+03	0.0314
PCB-103 22'45'6-PeCB	27.44		0.8989	0.8988	-0.2	2.28E+07	0.62	0.95	47.6	5.39E+03	0.113
PCB-94 22'356'-PeCB	27.63		0.9051	0.9051	0	1.96E+07	0.62	0.80	48.7	5.39E+03	0.135

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	28.01		0.9176	0.9176	0	2.12E+07	0.60	0.87	48.5	5.39E+03	0.124
PCB-100/93 22'44'6/22'356-PeCB	28.22	C	0.9246	0.9245	-0.2	4.05E+07	0.61	0.88	92	5.39E+03	0.123
PCB-102 22'456'-PeCB	28.33		0.9282	0.9281	-0.2	2.35E+07	0.62	0.88	53.1	5.39E+03	0.122
PCB-98 22'34'6'-PeCB	28.40		0.9305	0.9304	-0.2	1.99E+07	0.61	0.85	46.4	5.39E+03	0.126
PCB-88 22'346-PeCB	28.71		0.9403	0.9405	+0.3	2.12E+07	0.62	0.85	49.7	5.39E+03	0.127
PCB-91 22'34'6-PeCB	28.77		0.9424	0.9425	+0.2	2.07E+07	0.63	0.86	48	5.39E+03	0.126
PCB-84 22'33'6-PeCB	28.96		0.9487	0.9487	0	1.77E+07	0.62	0.72	48.9	5.39E+03	0.15
PCB-89 22'346'-PeCB	29.38		0.9624	0.9624	0	1.92E+07	0.61	0.78	48.9	5.39E+03	0.138
PCB-121 23'45'6-PeCB	29.72		0.9736	0.9736	0	2.95E+07	0.61	1.22	48.1	5.39E+03	0.0885
PCB-92 22'355'-PeCB	30.04		0.9841	0.9841	0	2.01E+07	0.62	0.84	47.3	5.39E+03	0.128
PCB-113/90/101 ...-PeCB	30.52	C	0.9999	0.9999	0	7.14E+07	0.61	0.97	146	5.39E+03	0.111
PCB-83 22'33'5-PeCB	30.96		1.0142	1.0142	0	1.64E+07	0.61	0.66	49.3	5.39E+03	0.163
PCB-99 22'44'5-PeCB	31.05		1.0173	1.0174	+0.2	2.41E+07	0.61	0.98	48.7	5.39E+03	0.11
PCB-112 233'56-PeCB	31.16		1.0206	1.0207	+0.2	2.80E+07	0.61	1.16	48.1	5.39E+03	0.0932
PCB-108/119/86/97/125...-PeCB	31.50	C	1.0320	1.0321	+0.2	1.43E+08	0.62	0.98	292	5.39E+03	0.11
PCB-117 234'56-PeCB	32.04		1.0495	1.0495	0	2.67E+07	0.61	1.09	48.8	5.39E+03	0.0991
PCB-116/85 23456/22'344'-PeCB	32.13	C	1.0525	1.0526	+0.2	4.72E+07	0.61	0.97	96.8	5.39E+03	0.111
PCB-110 233'4'6-PeCB	32.25		1.0561	1.0564	+0.6	2.76E+07	0.61	1.10	50	5.39E+03	0.0981
PCB-115 2344'6-PeCB	32.33		1.0590	1.0592	+0.4	2.74E+07	0.62	1.12	48.7	5.39E+03	0.0961
PCB-82 22'33'4-PeCB	32.53		1.0655	1.0656	+0.2	1.71E+07	0.62	0.69	48.9	5.39E+03	0.155
PCB-111 233'55'-PeCB	32.84		1.0757	1.0758	+0.2	2.98E+07	0.61	1.20	49.4	5.39E+03	0.0897
PCB-120 23'455'-PeCB	33.24		1.0887	1.0889	+0.4	3.00E+07	0.61	1.22	48.9	5.39E+03	0.0882
PCB-107/124 ...-PeCB	34.20	C	0.9916	0.9915	-0.2	5.45E+07	0.62	1.10	98.6	5.39E+03	0.0981
PCB-109 233'46-PeCB	34.41		0.9976	0.9976	0	3.10E+07	0.61	1.22	50.4	5.39E+03	0.0883
PCB-106 233'45-PeCB	34.63		1.0038	1.0039	+0.2	2.62E+07	0.61	1.08	48.1	5.39E+03	0.0995
PCB-122 233'4'5'-PeCB	35.09		1.0091	1.0091	0	2.54E+07	0.62	1.01	49.5	5.39E+03	0.109
PCB-127 33'455'-PeCB	37.04		1.0350	1.0351	+0.2	2.73E+07	0.61	1.06	49.8	5.39E+03	0.1
PCB-155 22'44'66'-HxCB	30.38		1.0007	1.0007	0	3.04E+07	1.27	1.26	46.4	1.64E+03	0.0244
PCB-152 22'3566'-HxCB	30.54		1.0060	1.0060	0	2.84E+07	1.26	1.09	50.1	1.64E+03	0.0283
PCB-150 22'34'66'-HxCB	30.68		1.0107	1.0107	0	2.88E+07	1.27	1.12	49.4	1.64E+03	0.0275
PCB-136 22'33'66'-HxCB	30.99		1.0207	1.0208	+0.2	2.68E+07	1.26	1.02	50.2	1.64E+03	0.03
PCB-145 22'3466'-HxCB	31.26		1.0296	1.0297	+0.2	2.70E+07	1.28	1.04	50	1.64E+03	0.0296
PCB-148 22'34'56'-HxCB	32.53		1.0714	1.0715	+0.2	2.08E+07	1.25	1.12	50	1.64E+03	0.0412
PCB-151/135 ...-HxCB	33.05	C	1.0886	1.0887	+0.2	3.97E+07	1.26	1.06	101	1.64E+03	0.0437
PCB-154 22'44'56'-HxCB	33.26		1.0954	1.0956	+0.4	2.32E+07	1.28	1.26	49.8	1.64E+03	0.0369
PCB-144 22'345'6-HxCB	33.52		1.1041	1.1043	+0.4	2.04E+07	1.24	1.10	49.8	1.64E+03	0.042
PCB-147/149 ...-HxCB	33.83	C	1.1141	1.1142	+0.2	4.12E+07	1.27	1.10	101	1.64E+03	0.0421
PCB-134 22'33'56-HxCB	34.00		1.1199	1.1199	0	1.51E+07	1.26	0.81	50.2	1.64E+03	0.0569
PCB-143 22'3456'-HxCB	34.08		1.1225	1.1226	+0.2	2.03E+07	1.28	1.09	50	1.64E+03	0.0423
PCB-139/140 ...-HxCB	34.34	C	1.1312	1.1314	+0.4	4.16E+07	1.26	1.11	101	1.64E+03	0.0417
PCB-131 22'33'46-HxCB	34.52		1.1369	1.1371	+0.4	1.76E+07	1.26	0.94	50.3	1.64E+03	0.0491
PCB-142 22'3456-HxCB	34.66		1.1416	1.1419	+0.6	1.73E+07	1.29	0.92	50.5	1.64E+03	0.0502
PCB-132 22'33'46'-HxCB	34.90		1.1494	1.1496	+0.4	1.82E+07	1.27	0.97	50.6	1.64E+03	0.0477
PCB-133 22'33'55'-HxCB	35.30		1.1626	1.1629	+0.6	1.93E+07	1.27	1.04	50.2	1.64E+03	0.0446
PCB-165 233'55'6-HxCB	35.64		0.9525	0.9524	-0.2	2.45E+07	1.28	1.32	50.1	1.64E+03	0.0351
PCB-146 22'34'55'-HxCB	35.86		0.9582	0.9582	0	2.13E+07	1.26	1.16	49.5	1.64E+03	0.04
PCB-161 233'45'6-HxCB	35.98		0.9613	0.9613	0	2.66E+07	1.26	1.42	50.3	1.64E+03	0.0326
PCB-153/168 ...-HxCB	36.40	C	0.9728	0.9728	0	5.24E+07	1.27	1.38	102	1.64E+03	0.0335

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.55		0.9766	0.9766	0	1.88E+07	1.25	1.01	50.3	1.64E+03	0.046
PCB-130 22'33'45'-HxCB	36.89		0.9859	0.9859	0	1.70E+07	1.25	0.91	50.4	1.64E+03	0.0509
PCB-137 22'344'5-HxCB	37.09		0.9911	0.9912	+0.2	2.10E+07	1.23	1.15	49.2	1.64E+03	0.0403
PCB-164 233'4'5'6'-HxCB	37.17		0.9933	0.9934	+0.2	2.58E+07	1.28	1.37	50.7	1.64E+03	0.0338
PCB-163/138/129 ...-HxCB	37.46	C	1.0011	1.0011	0	6.27E+07	1.27	1.12	150	1.64E+03	0.0412
PCB-160 233'456-HxCB	37.60		1.0048	1.0048	0	2.40E+07	1.28	1.27	51	1.64E+03	0.0365
PCB-158 233'44'6-HxCB	37.78		1.0096	1.0096	0	2.82E+07	1.26	1.49	51.1	1.64E+03	0.0311
PCB-128/166 ...-HxCB	38.52	C	0.9641	0.9640	-0.2	4.02E+07	1.21	0.89	97	6.11E+03	0.15
PCB-159 233'455'-HxCB	39.33		0.9844	0.9843	-0.2	2.46E+07	1.22	1.07	48.9	6.11E+03	0.124
PCB-162 233'4'55'-HxCB	39.57		0.9903	0.9903	0	2.47E+07	1.22	1.07	49.3	6.11E+03	0.125
PCB-188 22'34'566'-HpCB	35.26		1.0006	1.0006	0	2.15E+07	1.08	1.27	47.6	1.21E+03	0.0272
PCB-179 22'33'566'-HpCB	35.54		1.0086	1.0086	0	2.04E+07	1.07	1.09	52.7	1.21E+03	0.0318
PCB-184 22'344'66'-HpCB	36.00		1.0216	1.0217	+0.2	1.93E+07	1.07	1.04	51.9	1.21E+03	0.0331
PCB-176 22'33'466'-HpCB	36.29		1.0300	1.0300	0	2.15E+07	1.07	1.15	52.3	1.21E+03	0.03
PCB-186 22'34566'-HpCB	36.69		1.0413	1.0414	+0.2	1.99E+07	1.05	1.08	51.8	1.21E+03	0.032
PCB-178 22'33'55'6-HpCB	37.82		1.0733	1.0733	0	1.41E+07	1.06	0.75	52.6	1.21E+03	0.0458
PCB-175 22'33'45'6-HpCB	38.36		1.0887	1.0888	+0.2	1.83E+07	1.08	1.09	51	7.39E+03	0.221
PCB-187 22'34'55'6-HpCB	38.59		1.0952	1.0953	+0.2	1.94E+07	1.07	1.17	50.7	7.39E+03	0.207
PCB-182 22'344'56'-HpCB	38.77		1.1002	1.1004	+0.5	1.99E+07	1.06	1.20	50.6	7.39E+03	0.202
PCB-183 22'344'5'6-HpCB	39.12		1.1101	1.1102	+0.2	2.03E+07	1.04	1.23	50.3	7.39E+03	0.197
PCB-185 22'3455'6-HpCB	39.20		1.1125	1.1126	+0.2	1.86E+07	1.06	1.05	53.7	7.39E+03	0.23
PCB-174 22'33'456'-HpCB	39.31		1.1156	1.1157	+0.2	1.58E+07	1.07	1.01	47.6	7.39E+03	0.24
PCB-177 22'33'45'6'-HpCB	39.68		1.1262	1.1263	+0.2	1.59E+07	1.04	0.96	50.4	7.39E+03	0.252
PCB-181 22'344'56-HpCB	40.03		1.1361	1.1362	+0.2	1.78E+07	1.05	1.08	50.2	7.39E+03	0.224
PCB-171/173 ...-HpCB	40.22	C	1.1413	1.1414	+0.2	3.17E+07	1.06	0.95	102	7.39E+03	0.256
PCB-172 22'33'455'-HpCB	41.56		0.9080	0.9079	-0.2	1.64E+07	1.05	0.99	50.5	7.39E+03	0.244
PCB-192 233'455'6-HpCB	41.81		0.9134	0.9134	0	2.09E+07	1.05	1.29	49.6	7.39E+03	0.188
PCB-180/193 ...-HpCB	42.09	C	0.9194	0.9194	0	4.12E+07	1.05	1.23	102	7.39E+03	0.196
PCB-191 233'44'5'6-HpCB	42.42		0.9266	0.9266	0	2.29E+07	1.06	1.35	51.5	7.39E+03	0.179
PCB-170 22'33'44'5-HpCB	43.19		0.9434	0.9434	0	1.54E+07	1.04	1.12	51.9	7.39E+03	0.255
PCB-190 233'44'56-HpCB	43.64		0.9533	0.9533	0	2.17E+07	1.04	1.54	52.5	7.39E+03	0.184
PCB-202 22'33'55'66'-OcCB	39.79		1.0005	1.0005	0	1.75E+07	0.91	1.05	48.3	1.19E+03	0.0334
PCB-201 22'33'45'66'-OcCB	40.58		1.0203	1.0203	0	1.94E+07	0.90	1.12	50.4	1.19E+03	0.0315
PCB-204 22'344'566'-OcCB	41.15		1.0348	1.0348	0	1.78E+07	0.93	1.04	49.9	1.19E+03	0.0339
PCB-197 22'33'44'66'-OcCB	41.34		1.0396	1.0395	-0.2	1.87E+07	0.92	1.09	50	1.19E+03	0.0323
PCB-200 22'33'4566'-OcCB	41.43		1.0418	1.0418	0	1.90E+07	0.90	1.09	50.9	1.19E+03	0.0324
PCB-198/199 ...-OcCB	43.75	C	1.1001	1.1002	+0.3	2.49E+07	0.90	0.72	100	1.19E+03	0.0487
PCB-196 22'33'44'56'-OcCB	44.33		1.1146	1.1147	+0.3	1.32E+07	0.90	0.76	50.1	1.19E+03	0.0461
PCB-203 22'344'55'6-OcCB	44.50		1.1188	1.1189	+0.3	1.34E+07	0.92	0.78	50	1.19E+03	0.0451
PCB-195 22'33'44'56-OcCB	45.62		0.9516	0.9516	0	1.14E+07	0.91	0.75	52.9	3.08E+03	0.145
PCB-194 22'33'44'55'-OcCB	47.56		0.9921	0.9921	0	1.23E+07	0.92	0.81	52.6	3.08E+03	0.134
PCB-205 233'44'55'6-OcCB	47.96		1.0004	1.0004	0	1.50E+07	0.92	1.06	49.2	3.08E+03	0.103
PCB-208 22'33'455'66'-NoCB	45.42		1.0005	1.0005	0	1.77E+07	0.78	1.12	49.3	3.79E+03	0.113
PCB-207 22'33'44'566'-NoCB	46.20		1.0178	1.0178	0	1.85E+07	0.79	1.14	50.9	3.79E+03	0.112
PCB-206 22'33'44'55'6-NoCB	49.43		1.0004	1.0004	0	1.12E+07	0.79	1.11	49.7	3.79E+03	0.179

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8A

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140326X06 Analysis Date: 26-MAR-2014 19:16:37  
 Lab ID: OPR1\_11892\_PCB-RJ

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	110	50 - 150	Y
PCB-3 4-MoCB	50	108	50 - 150	Y
PCB-4 22'-DiCB	50	95.1	50 - 150	Y
PCB-15 44'-DiCB	50	104	50 - 150	Y
PCB-19 22'6'-TrCB	50	96.5	50 - 150	Y
PCB-37 344'-TrCB	50	109	50 - 150	Y
PCB-54 22'66'-TeCB	50	95.5	50 - 150	Y
PCB-77 33'44'-TeCB	50	100	50 - 150	Y
PCB-81 344'5'-TeCB	50	104	50 - 150	Y
PCB-104 22'466'-PeCB	50	94.7	50 - 150	Y
PCB-105 233'44'-PeCB	50	95	50 - 150	Y
PCB-114 2344'5'-PeCB	50	97	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	95.7	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	97.1	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	108	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	92.8	50 - 150	Y
PCB-156/157 ...-HxCB	100	95.7	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	95.9	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	98.3	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	95.1	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	106	50 - 150	Y
PCB-202 22'33'55'66'-OxCB	50	96.6	50 - 150	Y
PCB-205 233'44'55'6-OxCB	50	98.3	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	99.5	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	98.7	50 - 150	Y
PCB-209 DeCB	50	97.1	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 31 Mar 2014 18:50 Analyst: CM



## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140326X06 Analysis Date: 26-MAR-2014 19:16:37  
 Lab ID: OPR1\_11892\_PCB-RJ

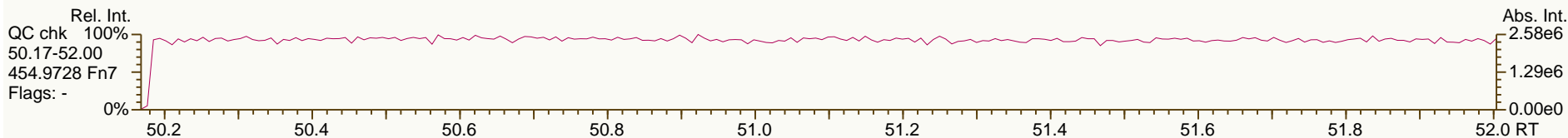
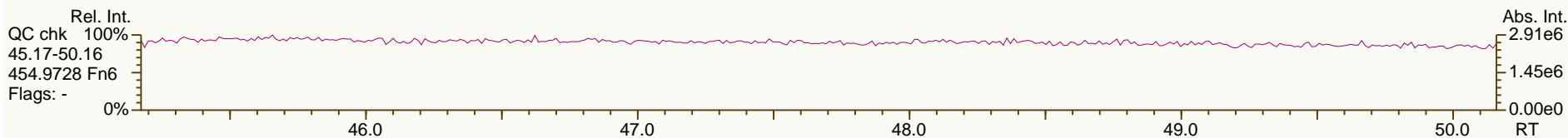
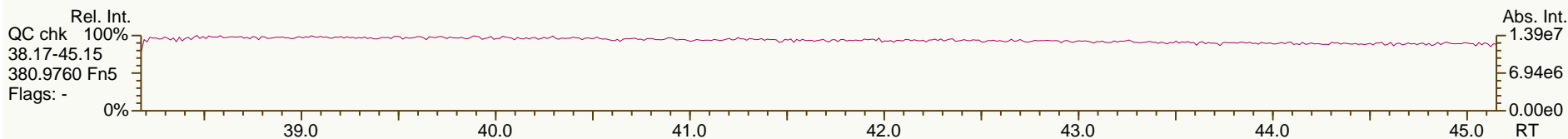
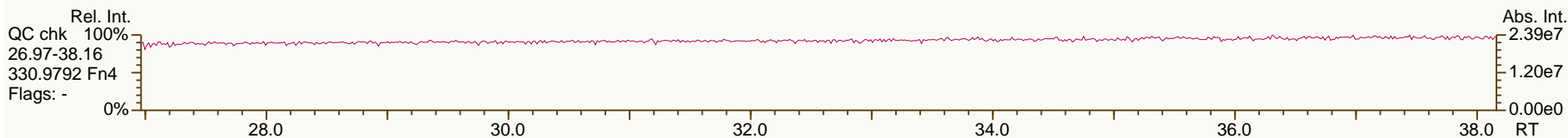
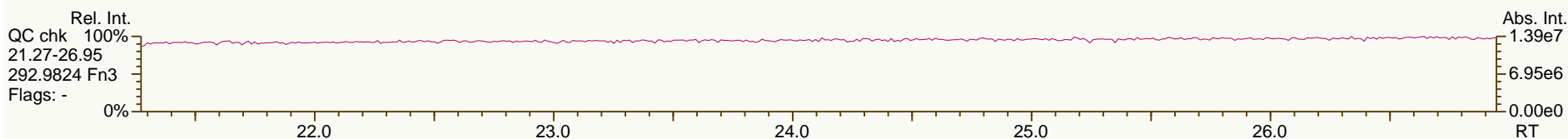
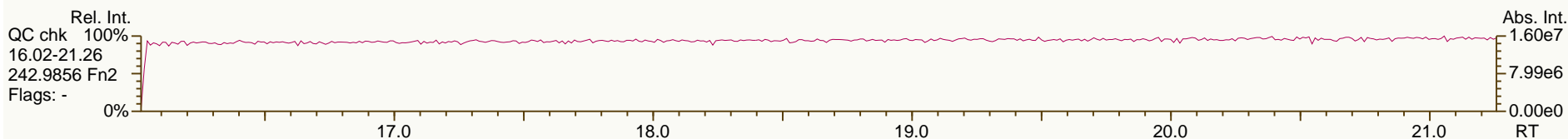
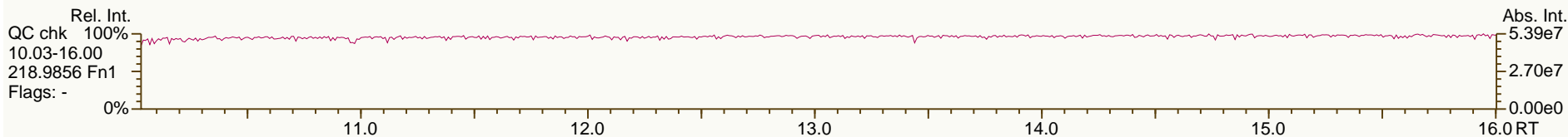
LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	73.9	15	-	140	Y
ES PCB-3	100	77.8	15	-	140	Y
ES PCB-4	100	89.5	30	-	140	Y
ES PCB-15	100	89.3	30	-	140	Y
ES PCB-19	100	88.6	30	-	140	Y
ES PCB-37	100	80.4	30	-	140	Y
ES PCB-54	100	91.3	30	-	140	Y
ES PCB-77	100	85.1	30	-	140	Y
ES PCB-81	100	83	30	-	140	Y
ES PCB-104	100	101	30	-	140	Y
ES PCB-105	100	87	30	-	140	Y
ES PCB-114	100	84.8	30	-	140	Y
ES PCB-118	100	88.1	30	-	140	Y
ES PCB-123	100	86.2	30	-	140	Y
ES PCB-126	100	86.8	30	-	140	Y
ES PCB-153	100	85.3	30	-	140	Y
ES PCB-155	100	84.5	30	-	140	Y
ES PCB-156/157	200	71.6	30	-	140	Y
ES PCB-167	100	72.3	30	-	140	Y
ES PCB-169	100	67.8	30	-	140	Y
ES PCB-170	100	85	30	-	140	Y
ES PCB-180	100	87.2	30	-	140	Y
ES PCB-188	100	97.7	30	-	140	Y
ES PCB-189	100	89.8	30	-	140	Y
ES PCB-202	100	91.5	30	-	140	Y
ES PCB-205	100	83.1	30	-	140	Y
ES PCB-206	100	87.8	30	-	140	Y
ES PCB-208	100	98	30	-	140	Y
ES PCB-209	100	81.2	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	84.8	40	-	125	Y
CS PCB-111	100	94.3	40	-	125	Y
CS PCB-178	100	109	40	-	125	Y

Processed: 31 Mar 2014 18:50 Analyst: CM

SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 32

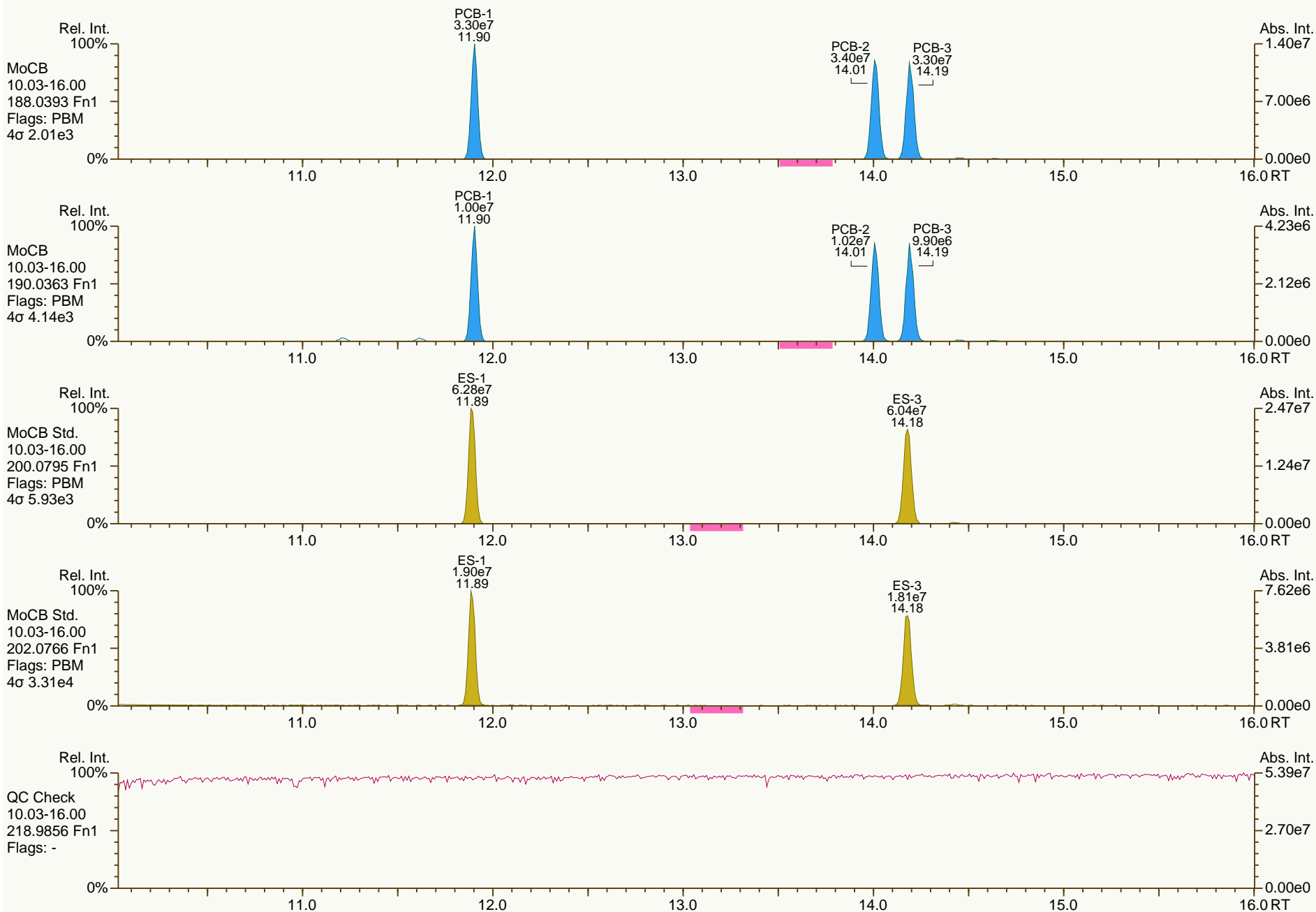
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
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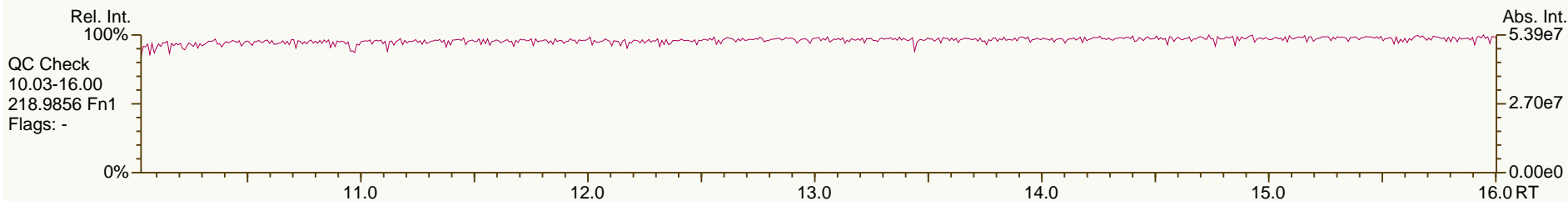
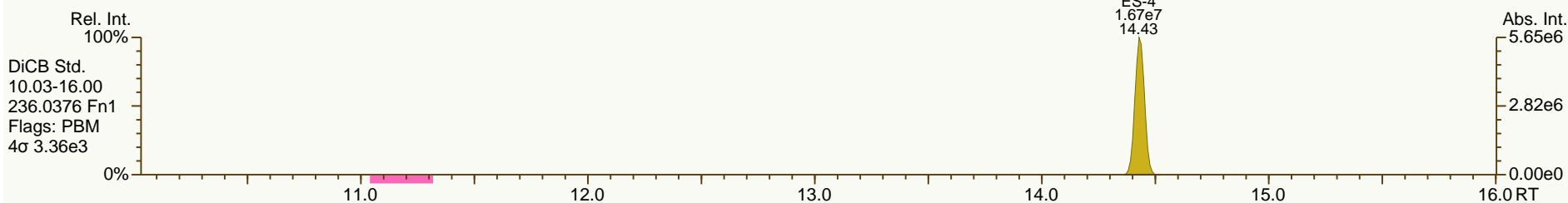
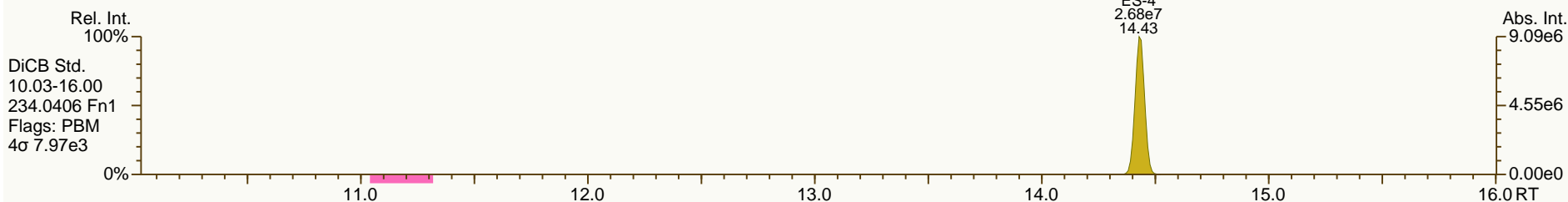
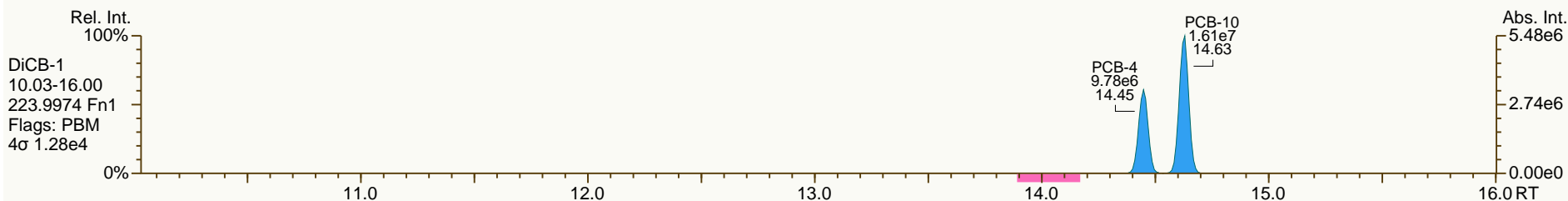
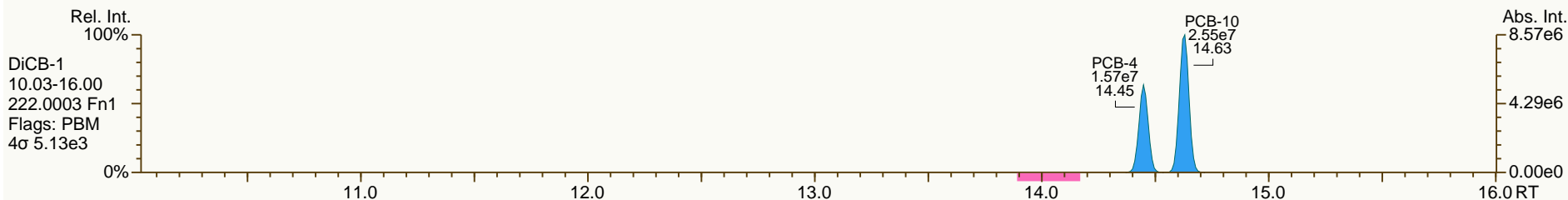
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
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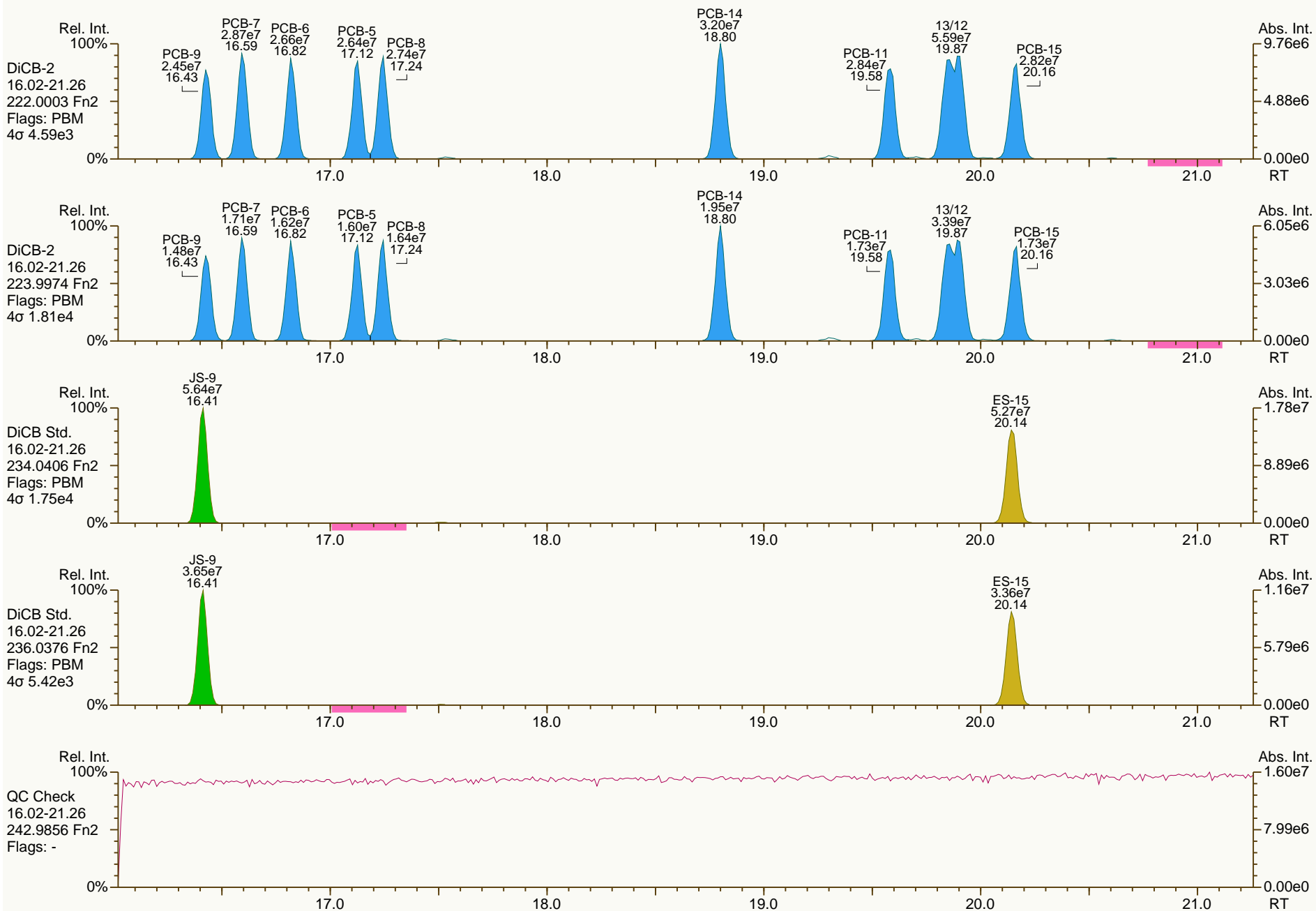
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
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Sample ID: 0\_11892\_OPR001  
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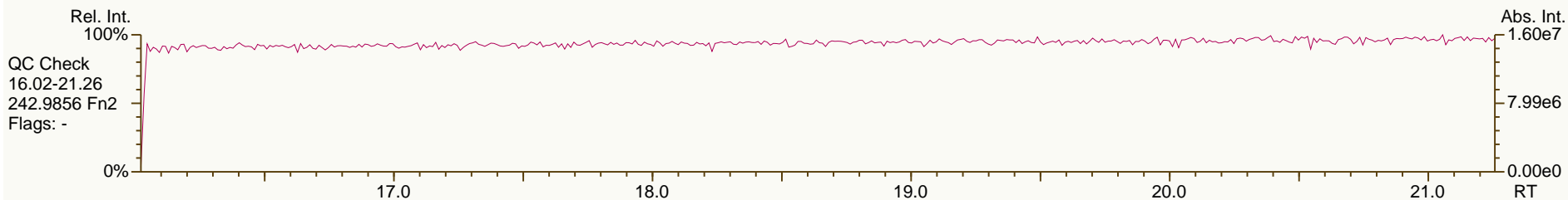
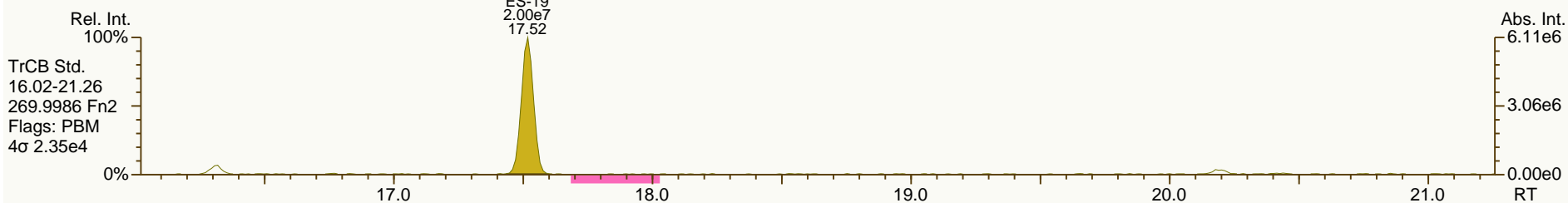
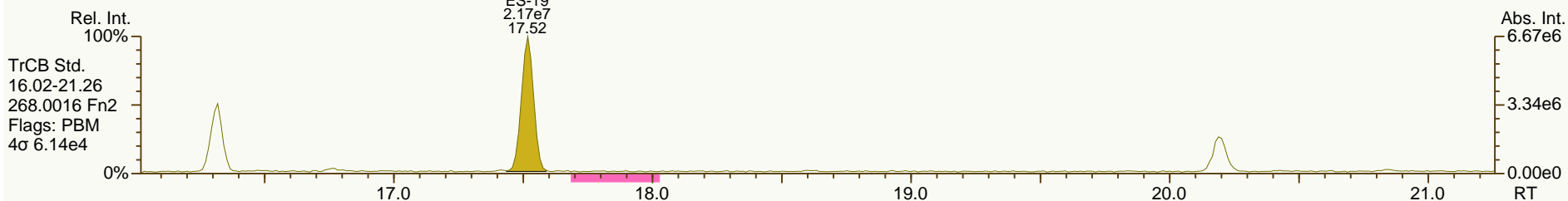
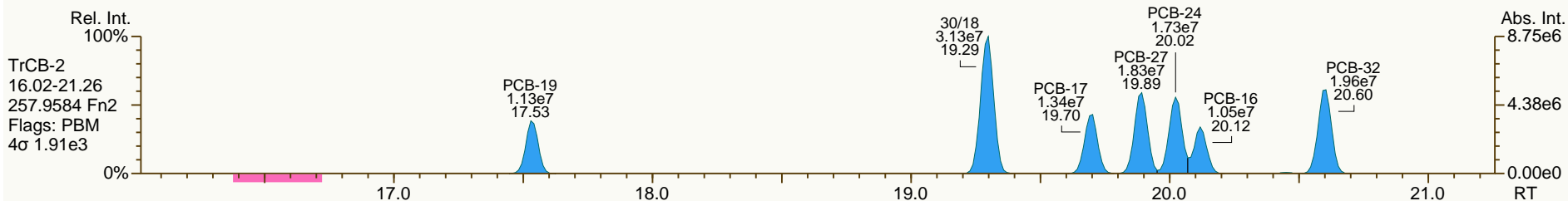
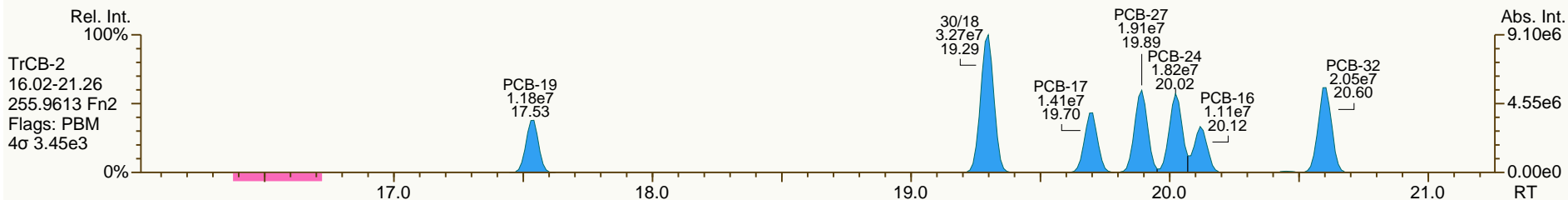
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
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Sample ID: 0\_11892\_OPR001  
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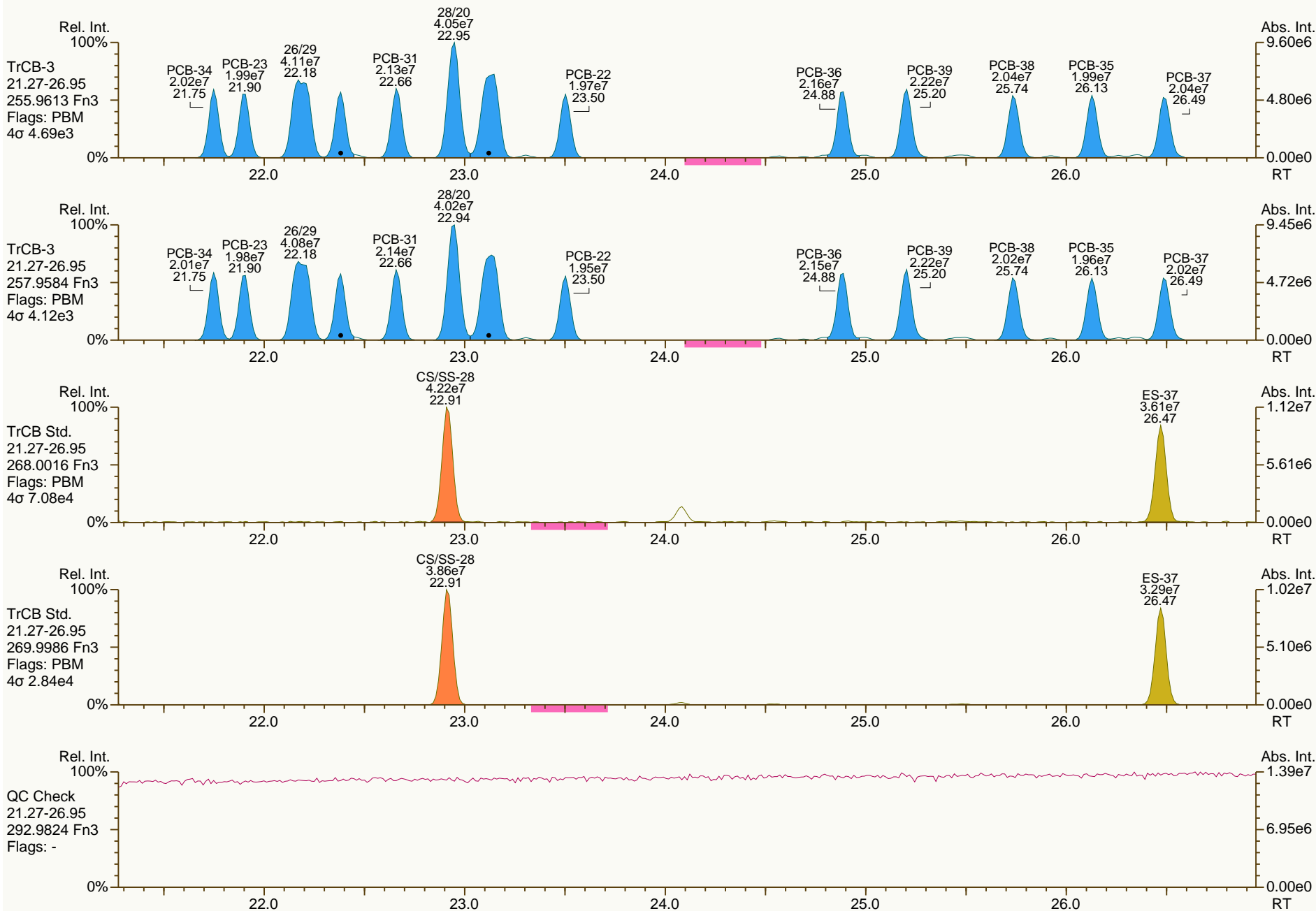
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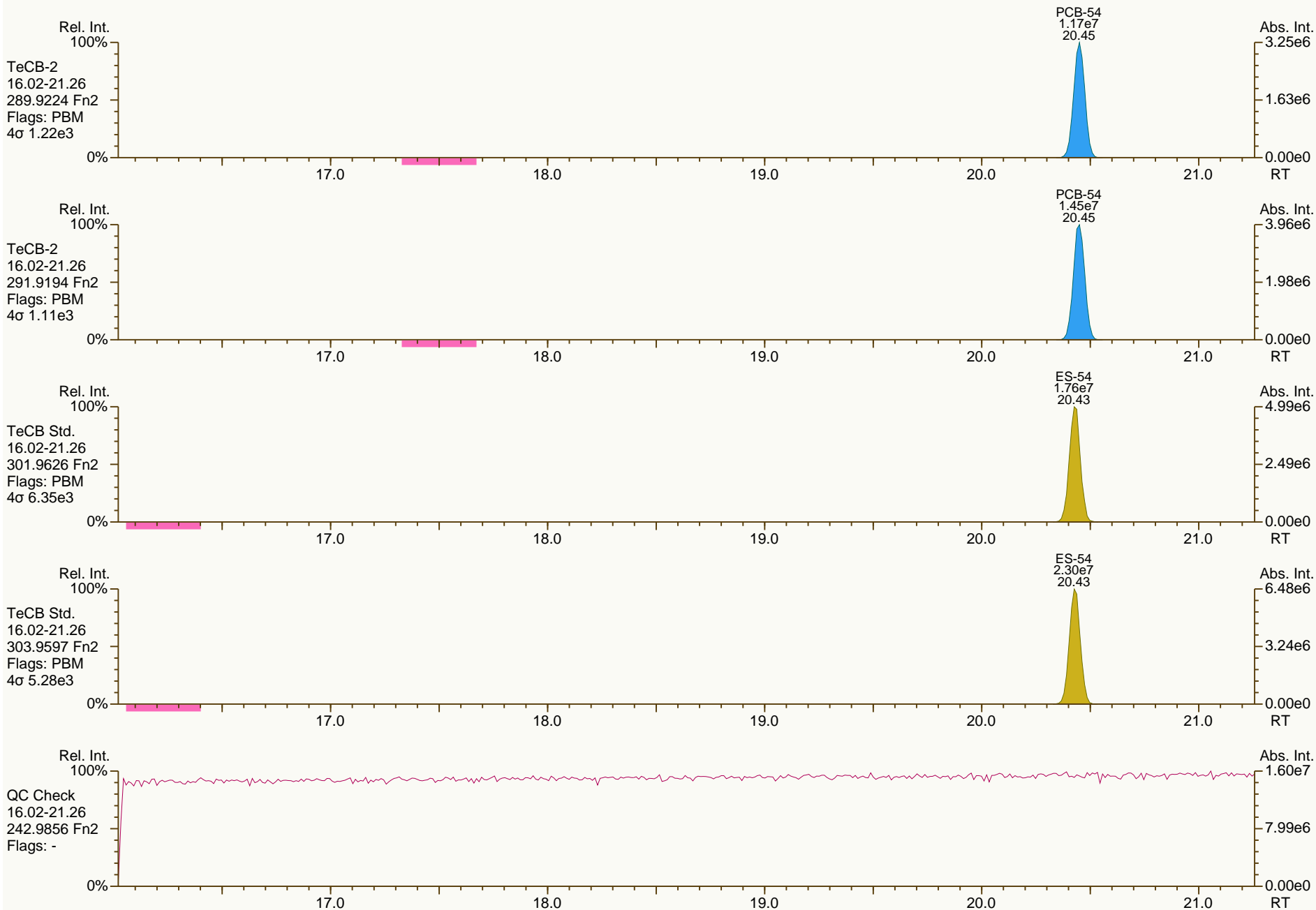
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Sample ID: 0\_11892\_OPR001  
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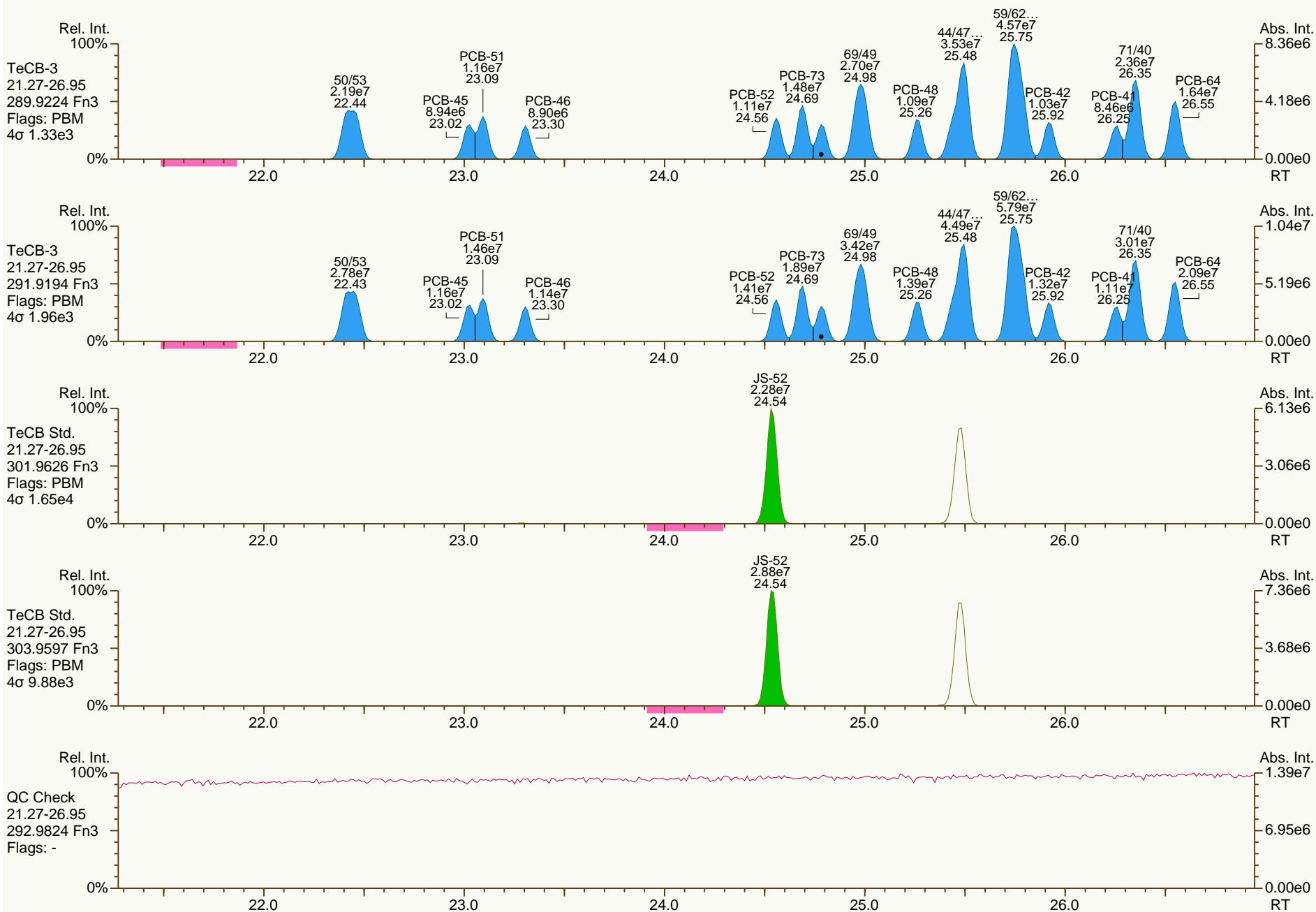




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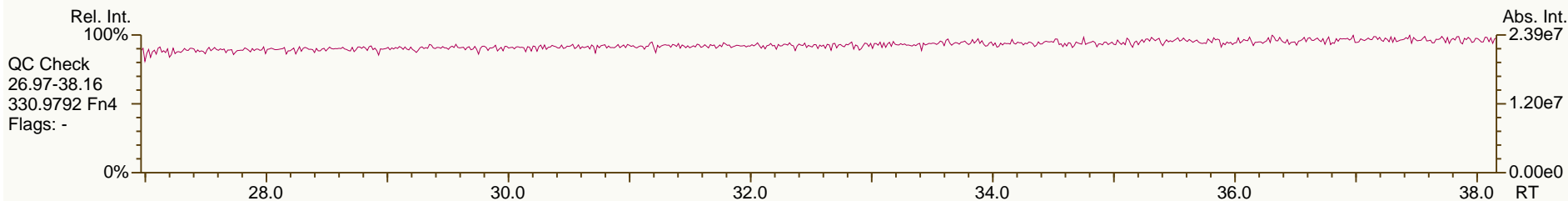
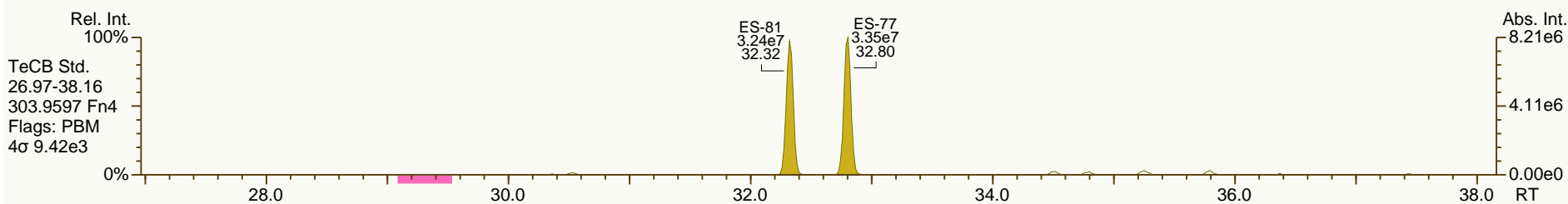
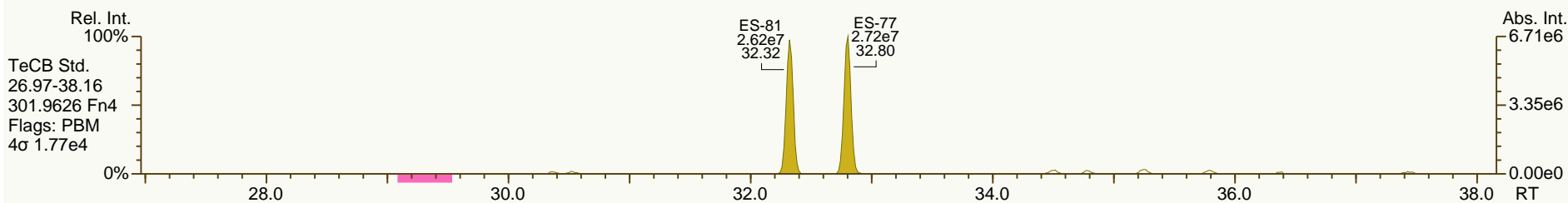
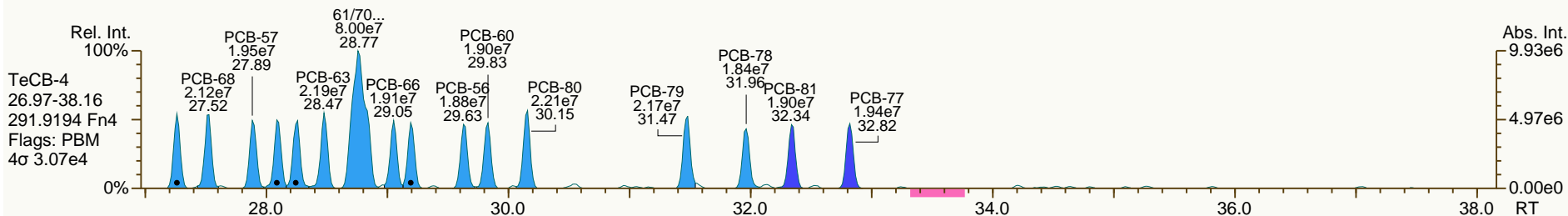
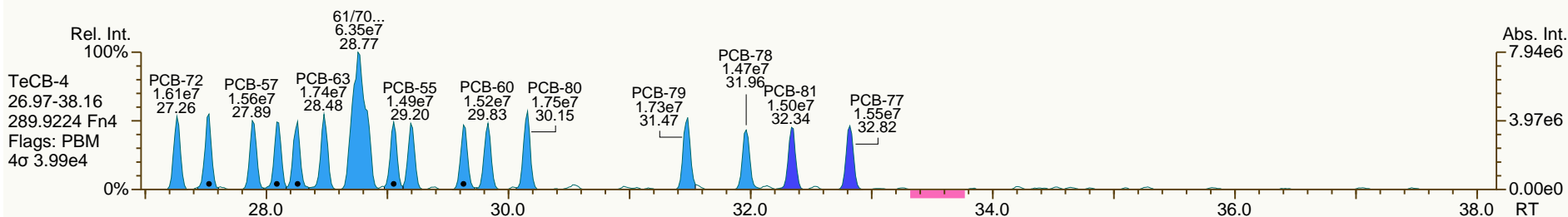
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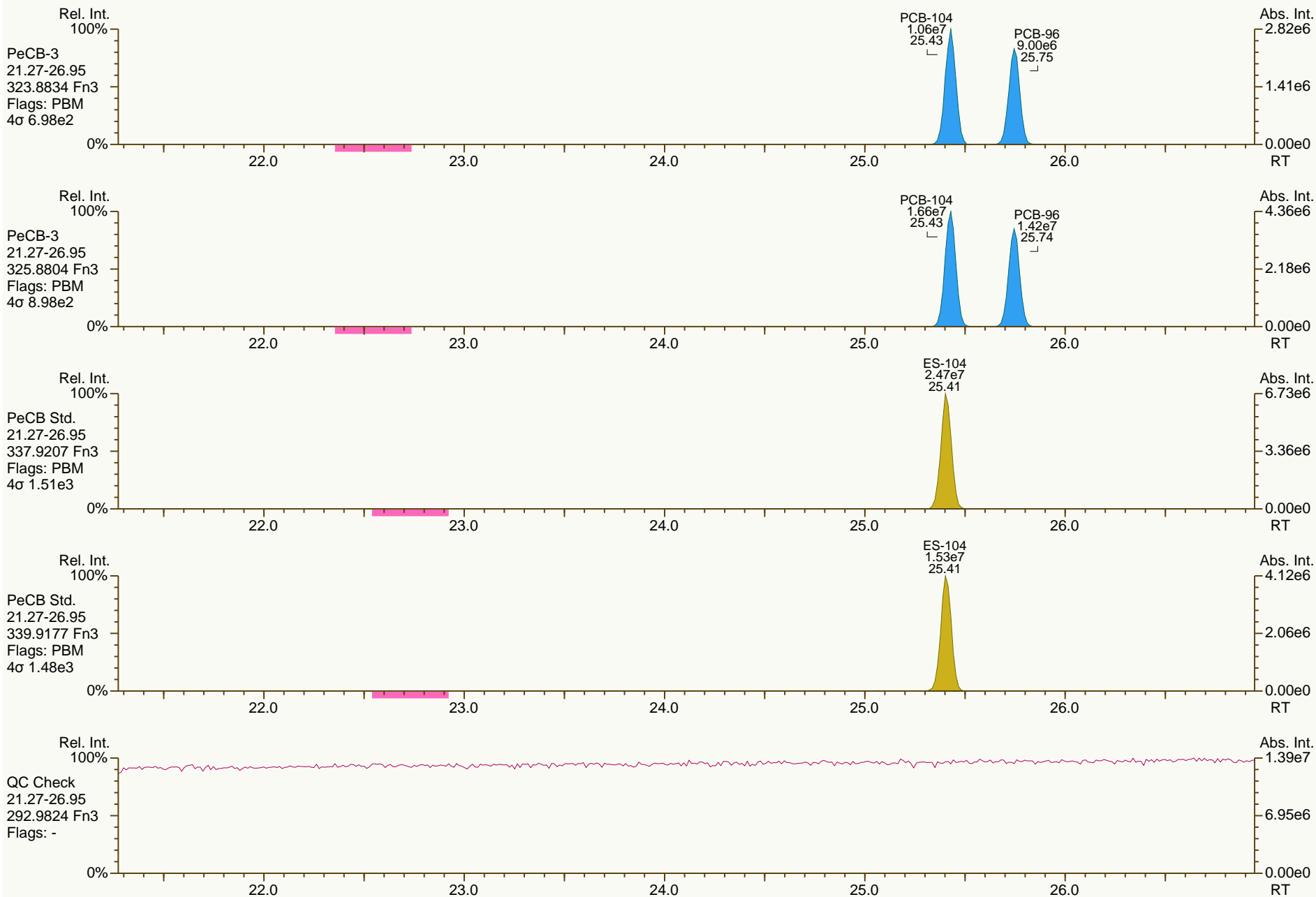
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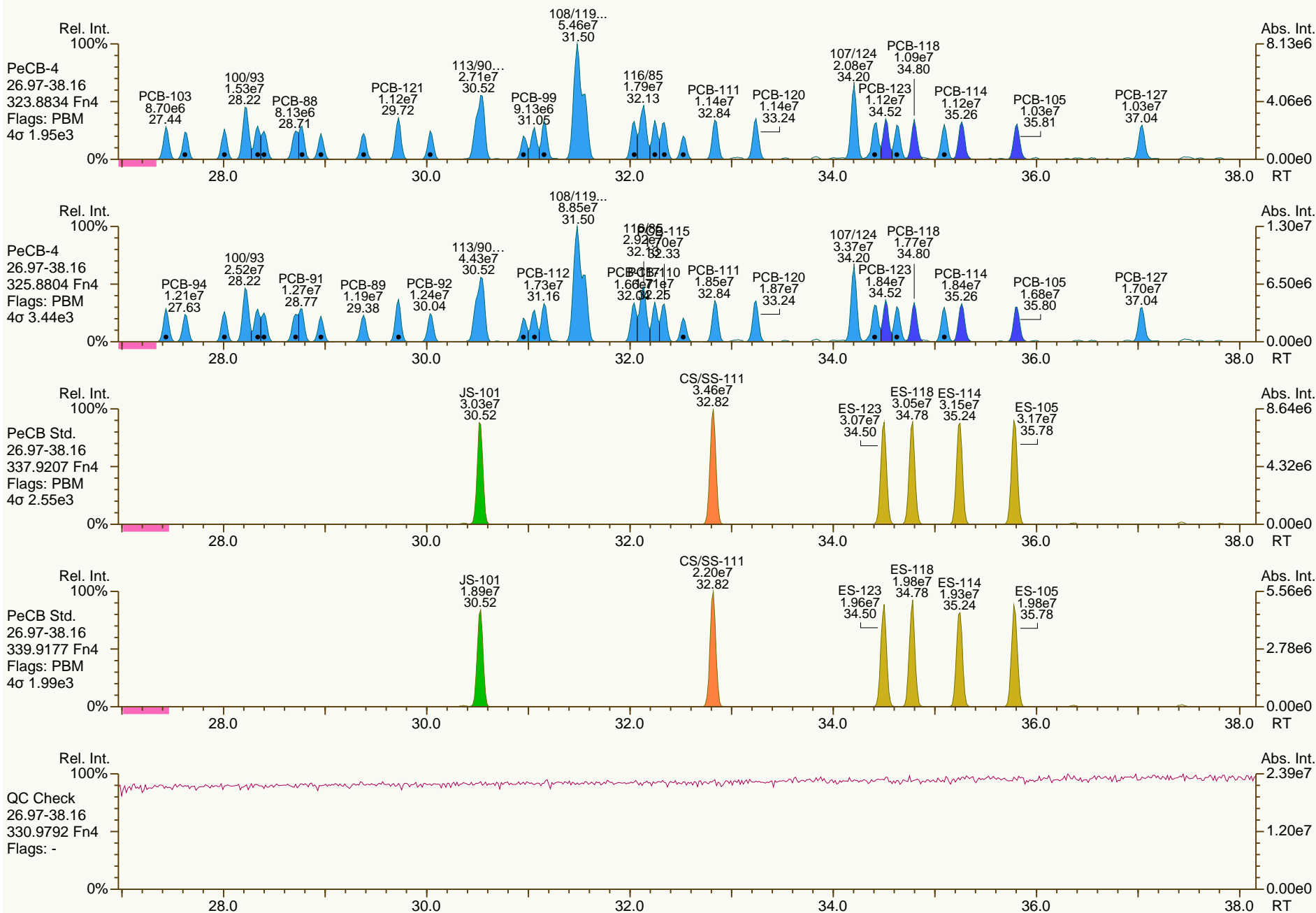
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
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Sample ID: 0\_11892\_OPR001  
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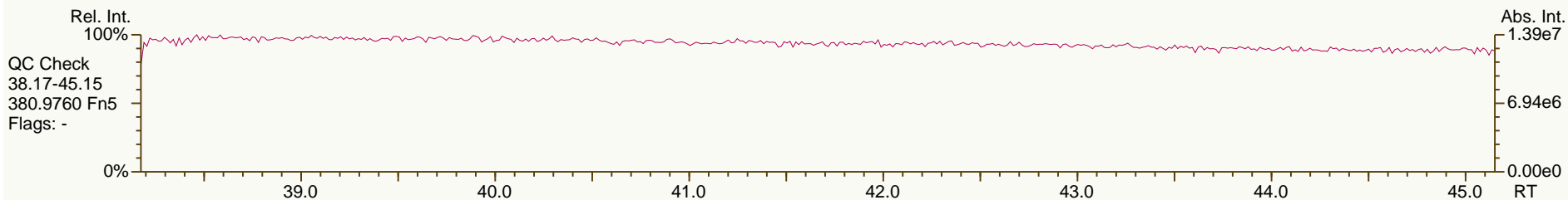
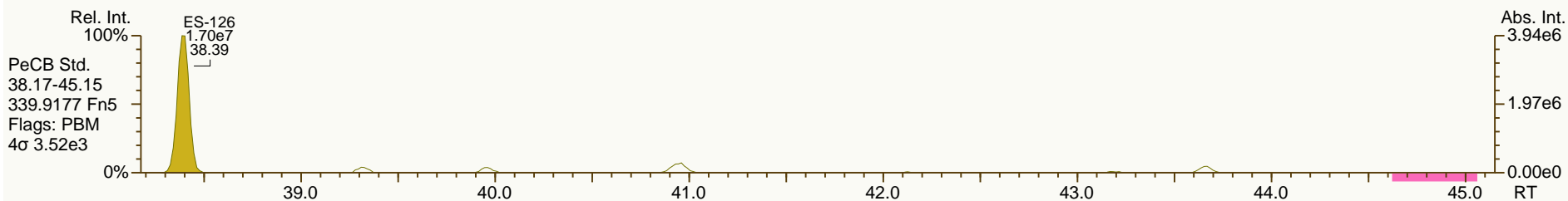
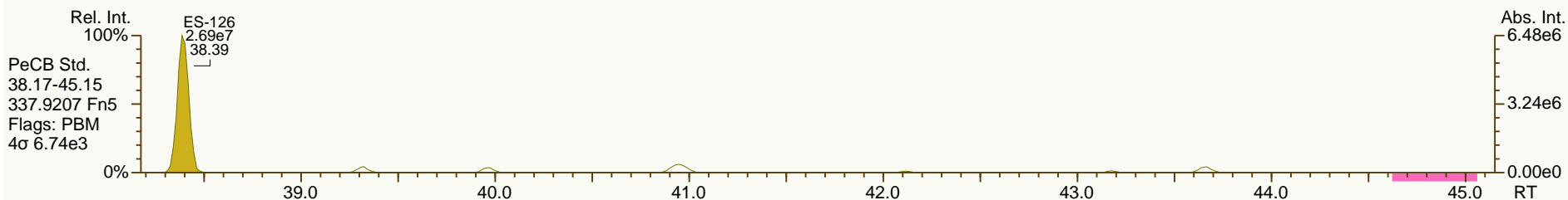
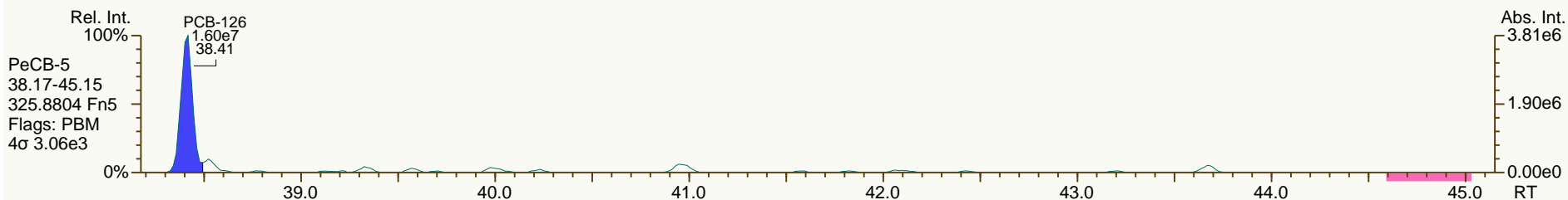
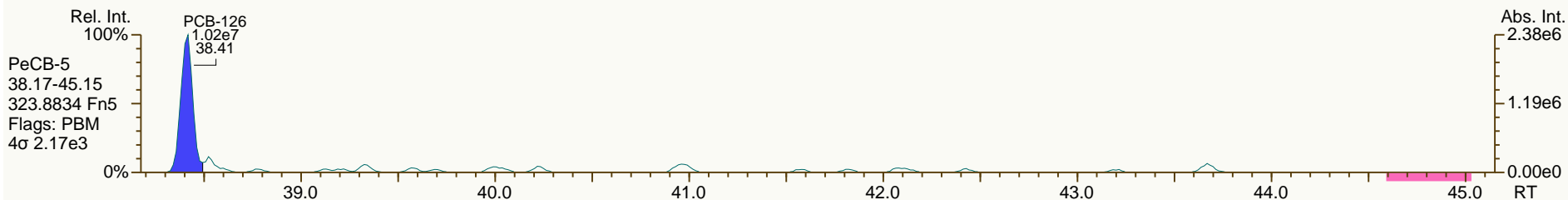
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
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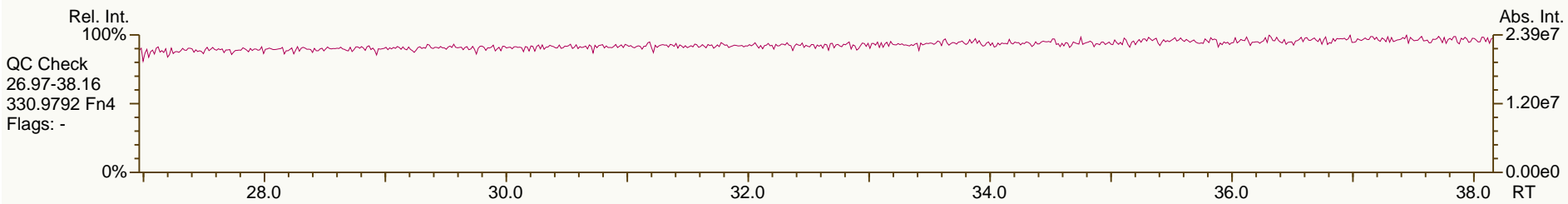
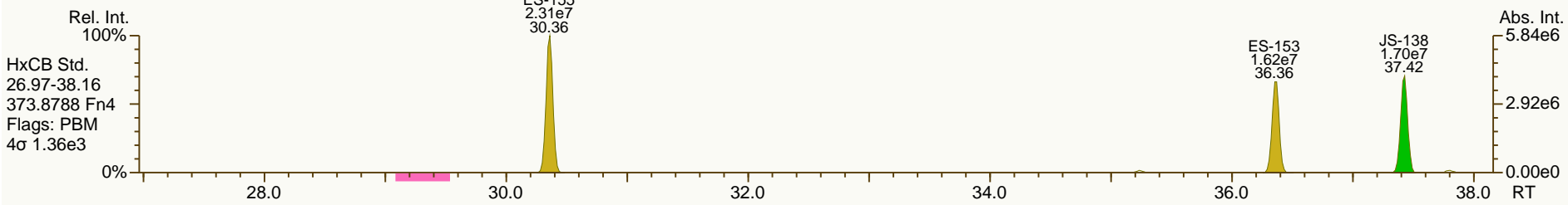
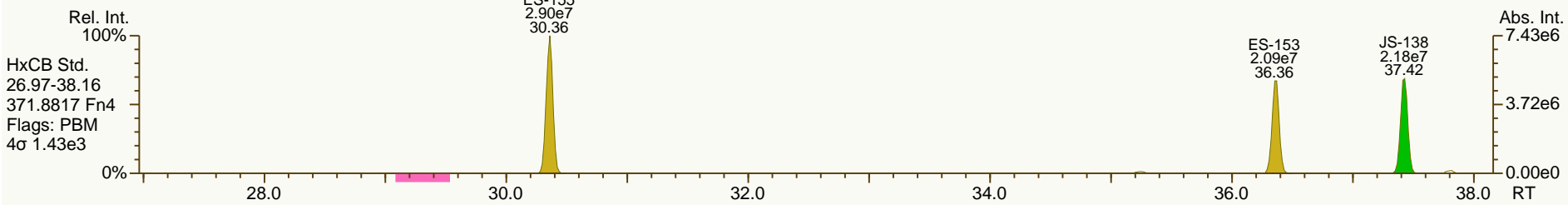
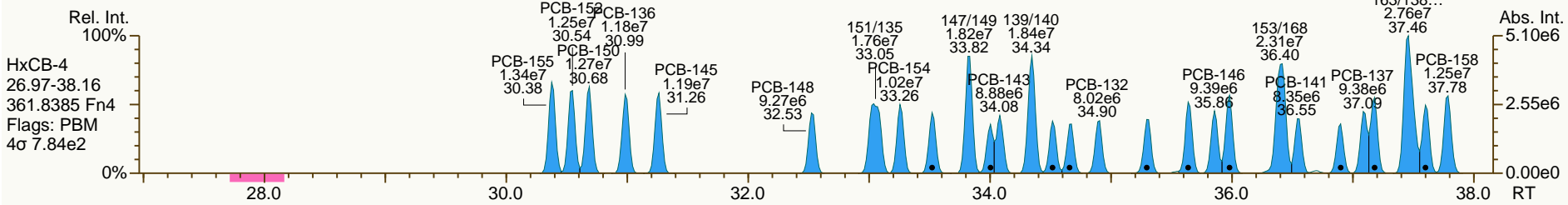
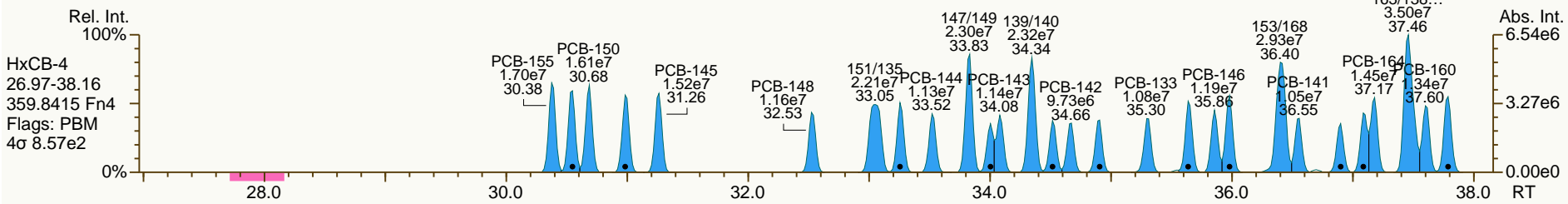
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
 Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
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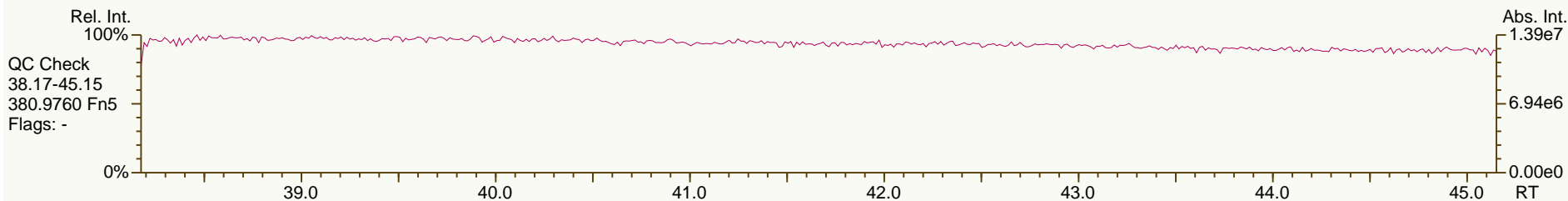
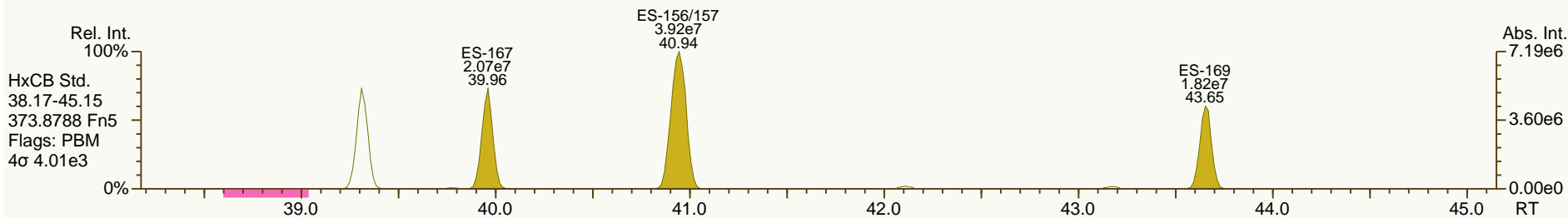
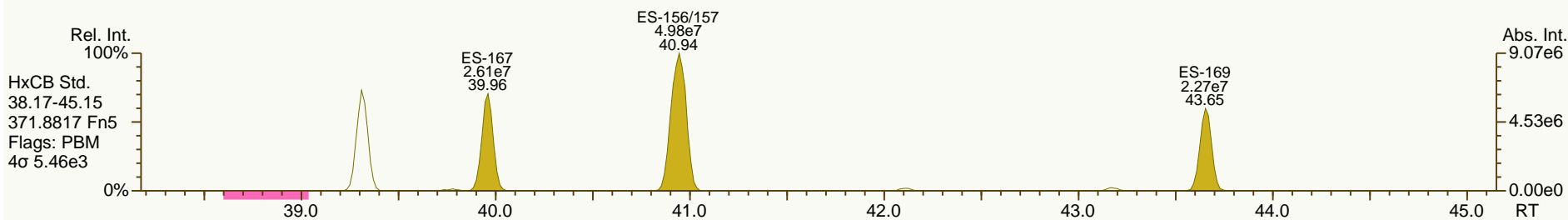
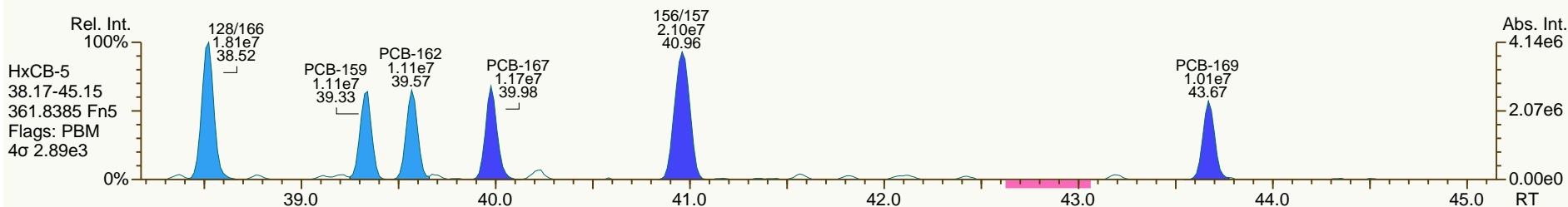
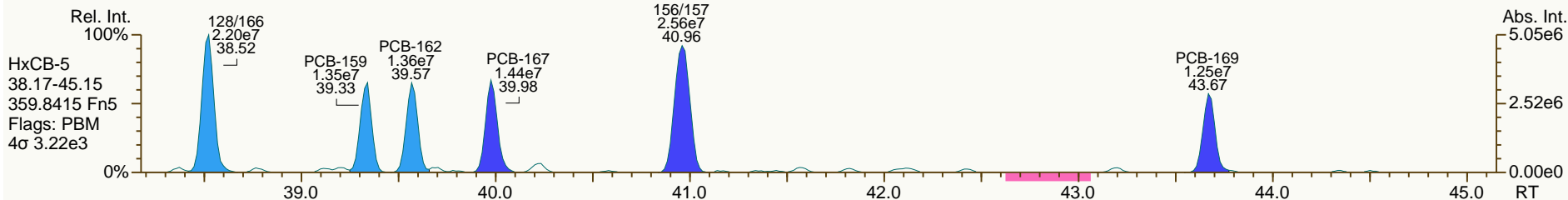
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
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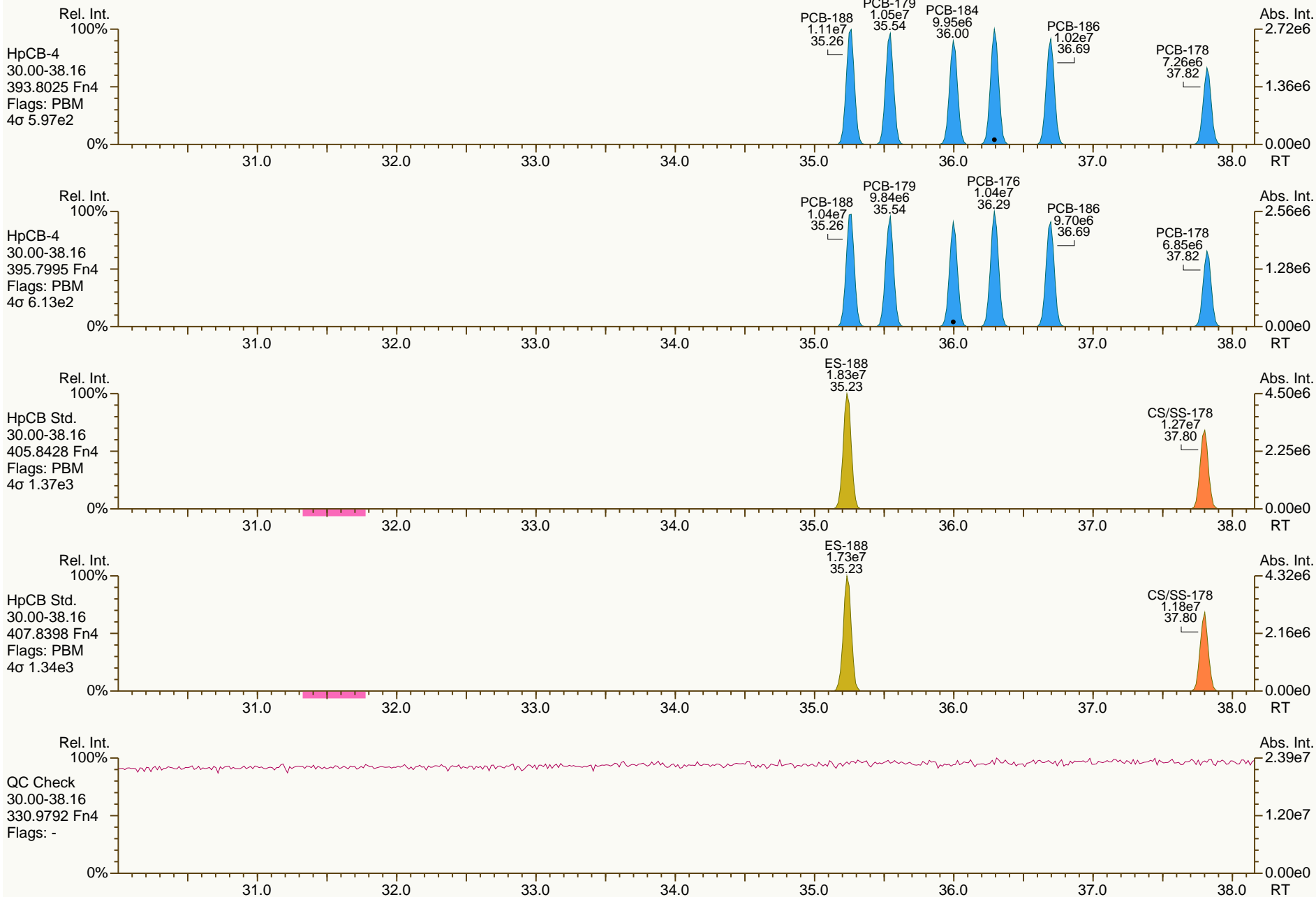
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
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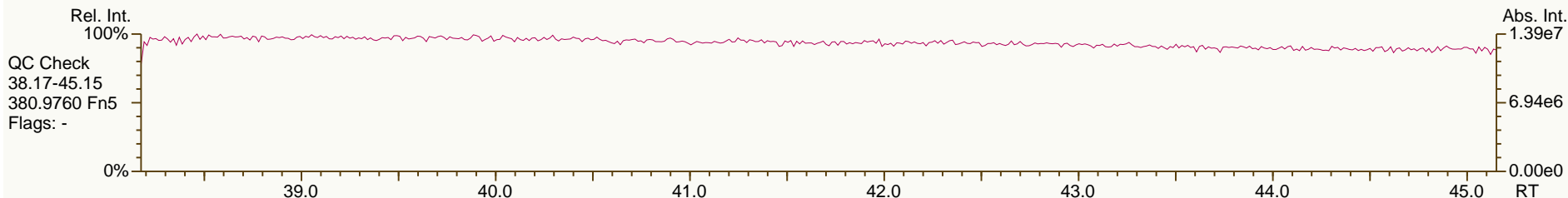
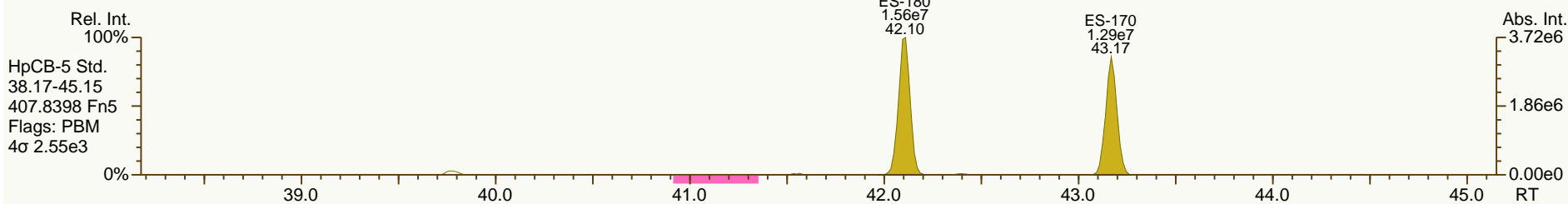
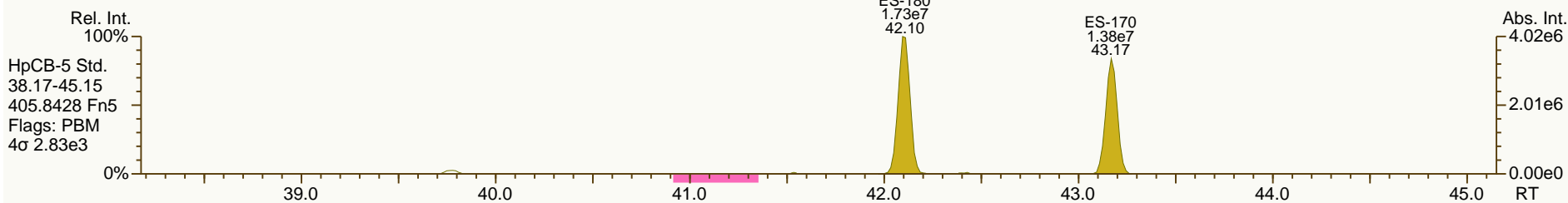
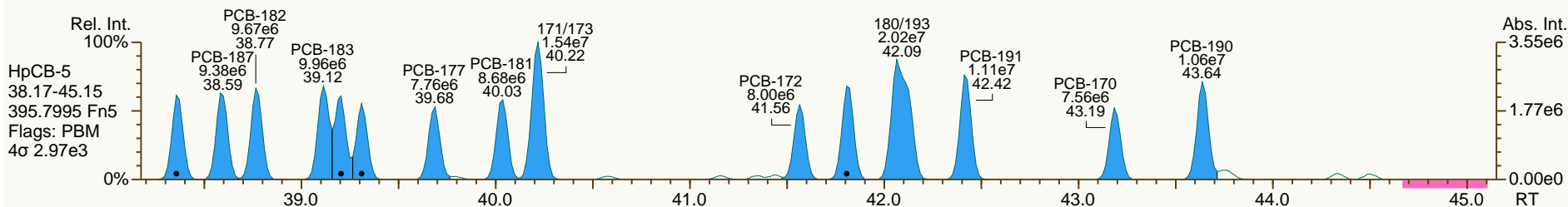
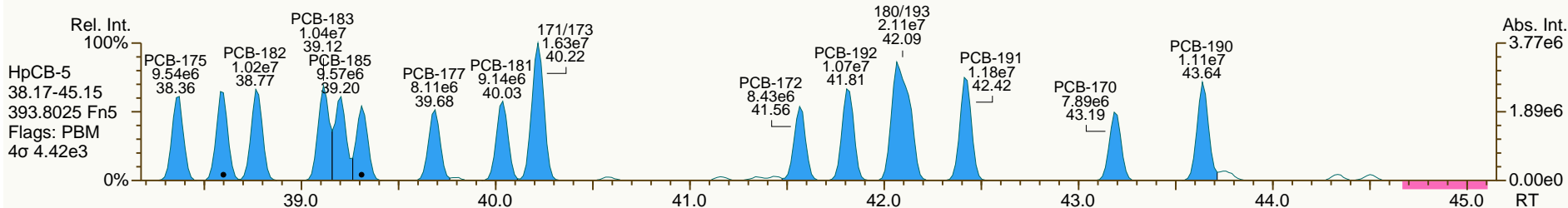




SGS-AP ID: OPR1\_11892\_PCB-RJ  
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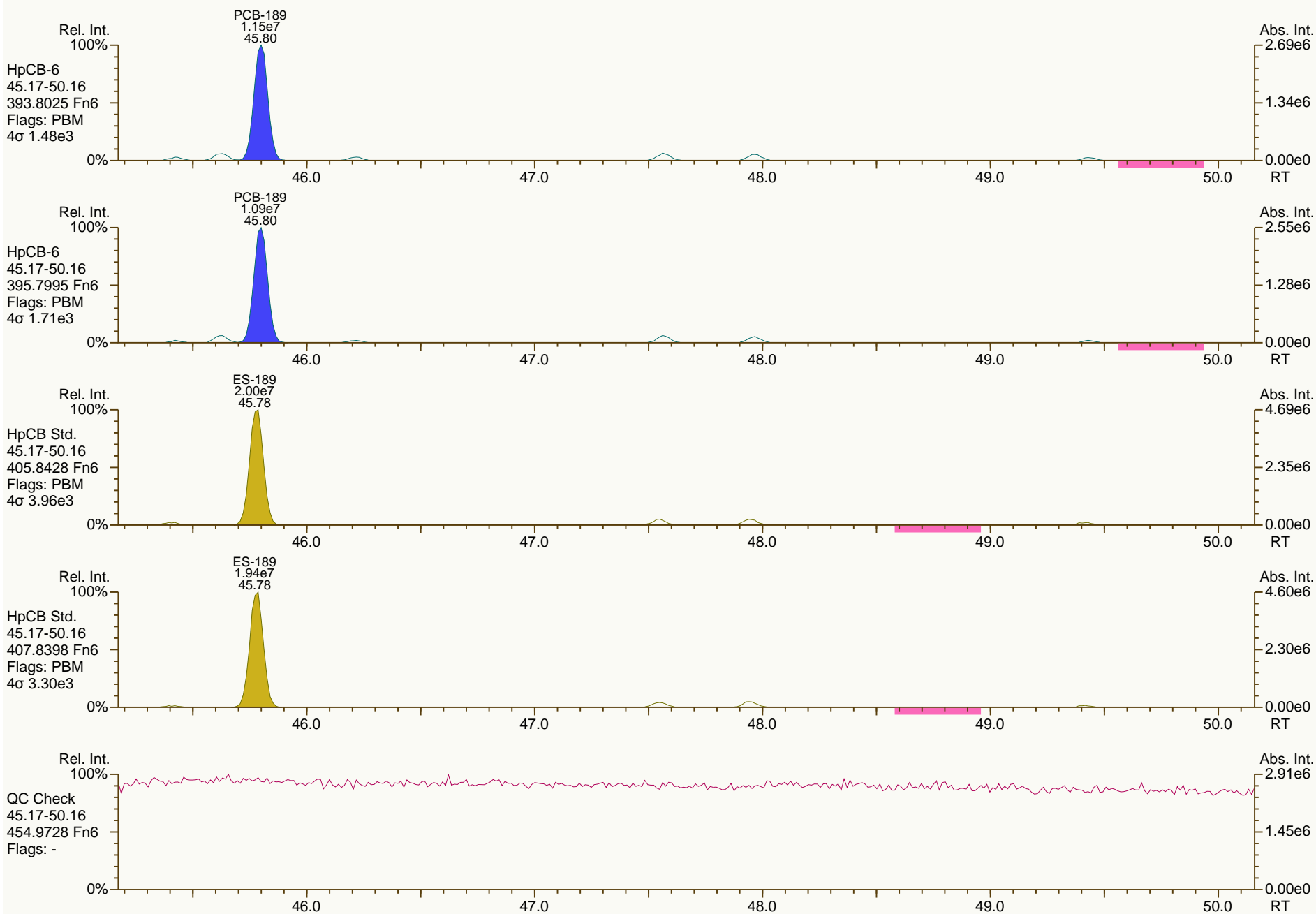
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Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 32

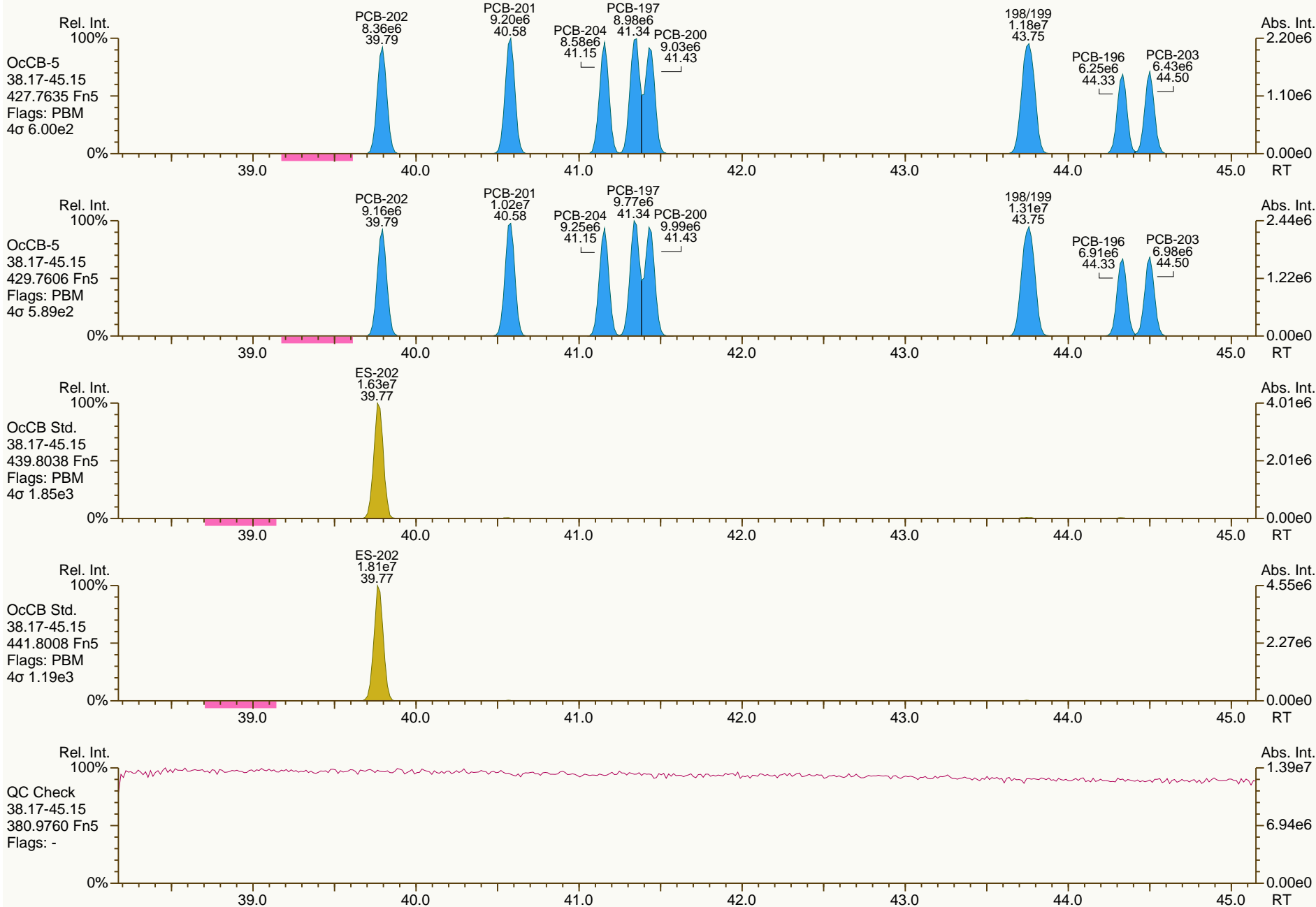
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SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 32

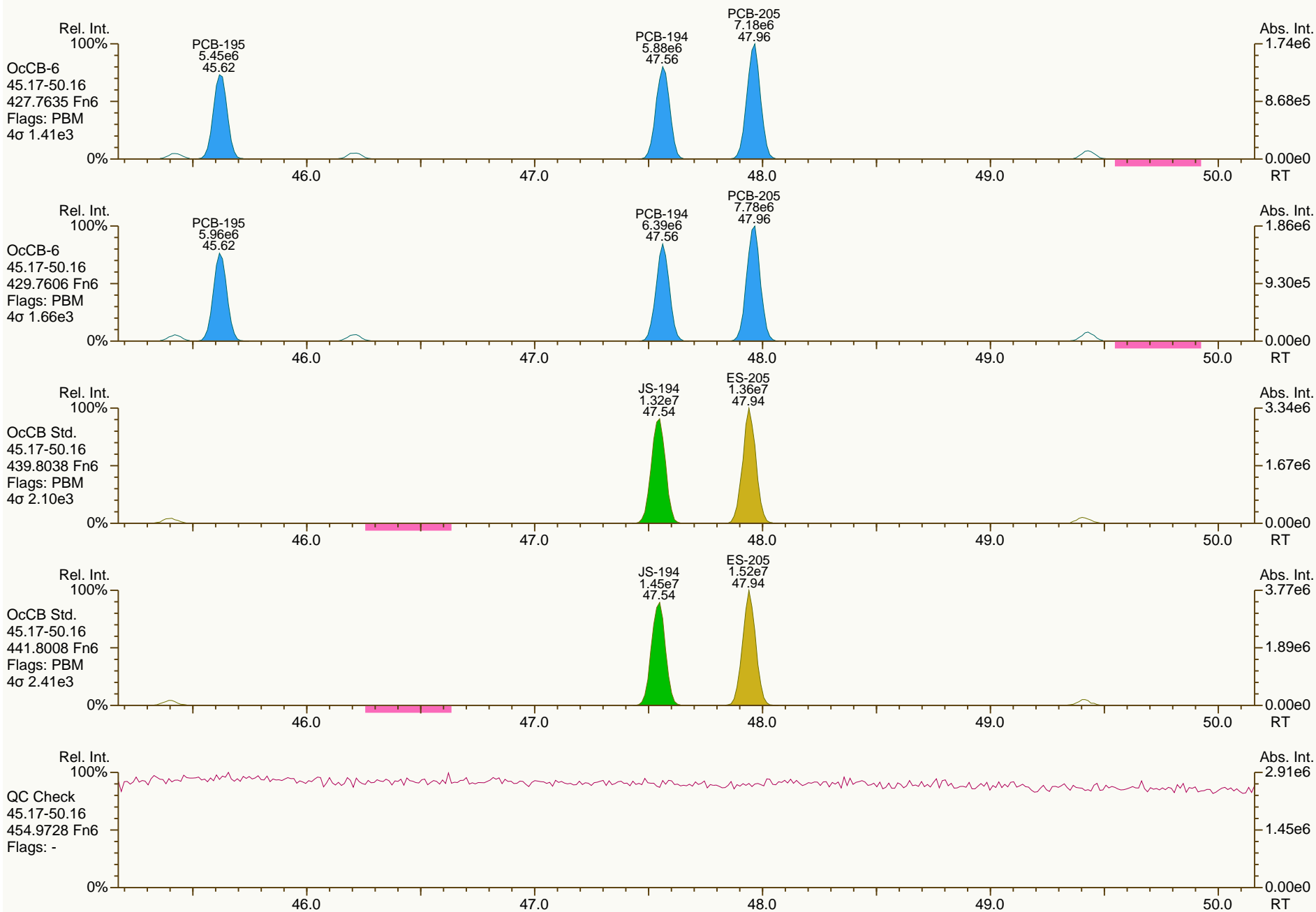
Acq: 26-Mar-2014 19:16:37  
User: LKB Datafile: 140326X06



SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 32

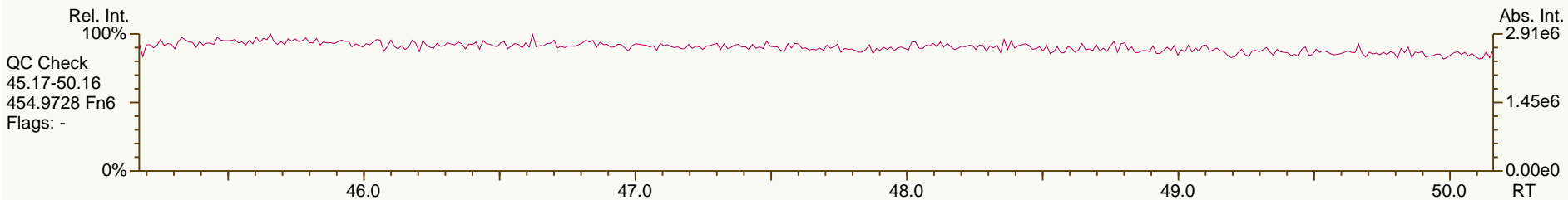
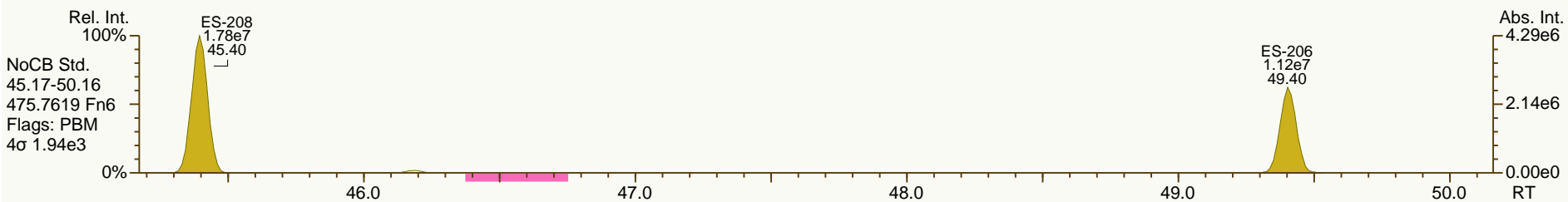
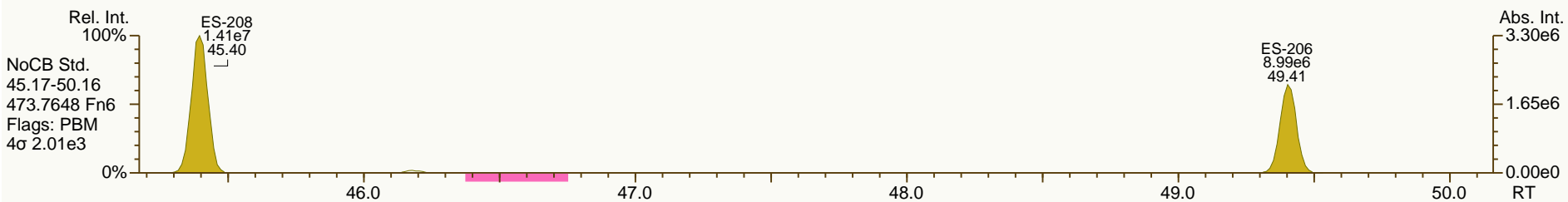
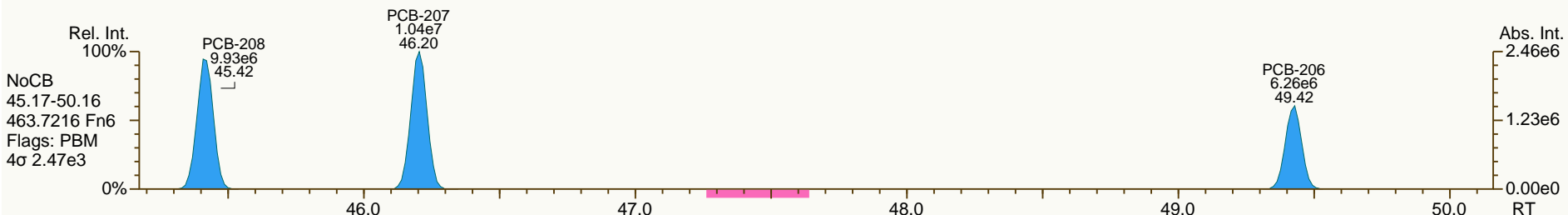
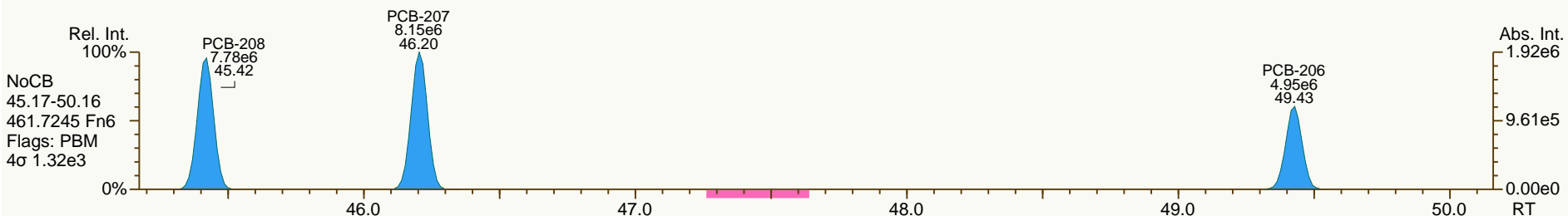
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User: LKB Datafile: 140326X06



SGS-AP ID: OPR1\_11892\_PCB-RJ  
 Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 32

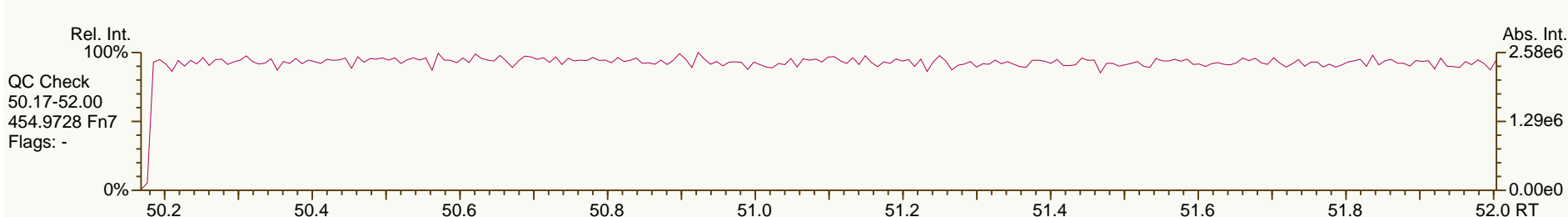
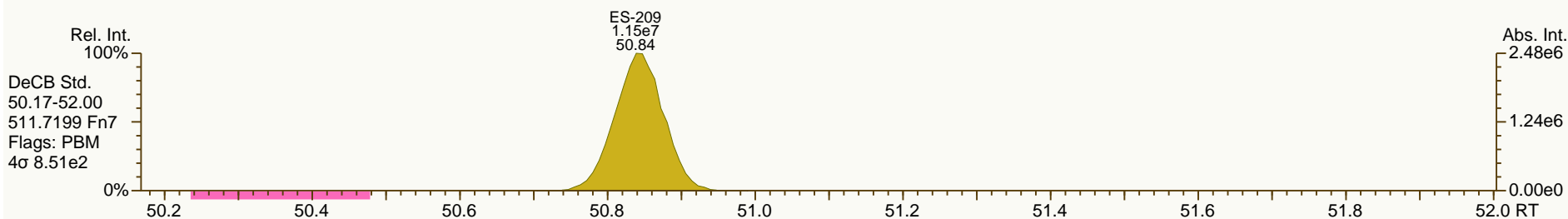
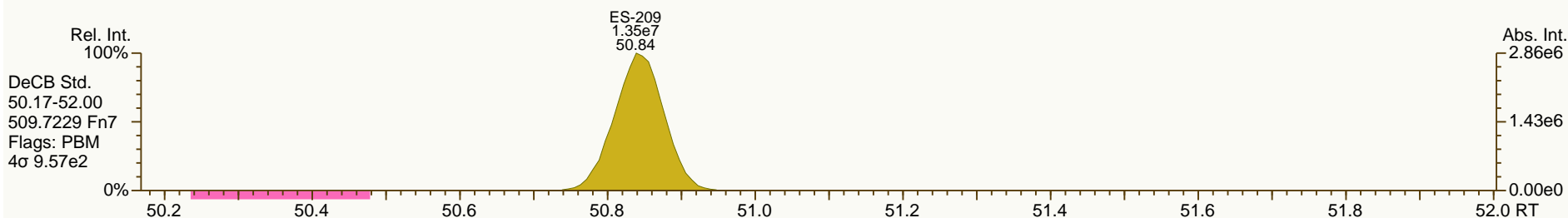
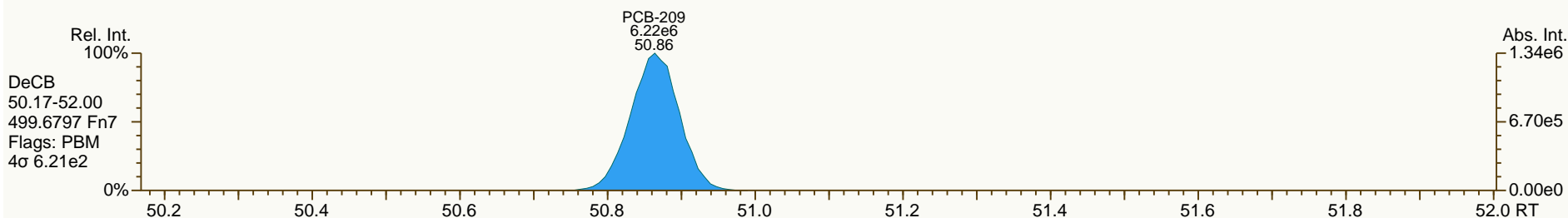
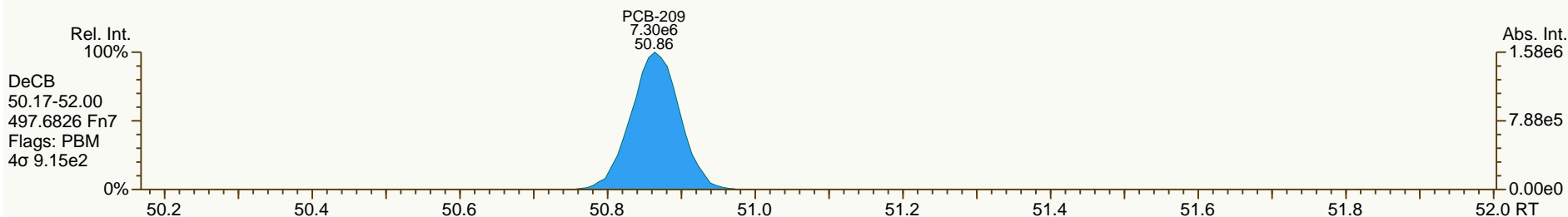
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 User: LKB Datafile: 140326X06



SGS-AP ID: OPR1\_11892\_PCB-RJ  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11892\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 32

Acq: 26-Mar-2014 19:16:37  
User: LKB Datafile: 140326X06





1 APRIL 2014

**DELANEY PETERSON  
ANCHOR QEA**

7200 Olive Way, Ste 300  
Seattle WA 98101

t. 206-287-9130  
e. DPeterson@anchorqea.com

**SUBJECT: CERTIFICATE OF RESULTS**

Dear Delaney;

Attached to this narrative are the analytical results for sample(s) submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes information about the project. If applicable, QC annotations below highlight specific analytical observations and assessments made during the sample handling and data interpretation phases.

Results reported relate only to the items tested.

**PROJECT INFORMATION SUMMARY** *(When applicable, see QC Annotations for details)*

Client Project	Patrick Bayou Superfund Ste
SGS Project #	A6506
Analytical Protocol(s)	Method 1668A
No. Samples Submitted	7 (+2 for filtration – 1 filtration on “hold”) – 8 samples analyzed
Additional QC Sample(s)	0
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
Date Received	20-Feb-2014
Condition Received	good
Temperature upon Receipt (C)	1,4
Extraction within Holding Time	yes
Analysis within Holding Time	yes

**QC ANNOTATIONS:**

1. Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.
  
2. Samples noted as "DISSOLVED" in the sample IDs were filtered with a 0.45µm filter prior to extraction.

SGS remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at [www.sgs.com/ultratrace](http://www.sgs.com/ultratrace) and click on the 'Email Us' link or go to our survey [here](#). Thank you for choosing SGS.

Sincerely,

Todd Vilen  
Project Manager





## APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. <sup>1</sup>
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. <sup>1</sup>
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



## APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

## APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.



## SGS CERTIFICATIONS

California	07255CA
Connecticut	PH-0258
Florida (primary NELAP)	E87634
ISO17025	2726.01
Kansas	E-10330
Louisiana	04115
Maryland (DW only)	299
New Jersey	NC100
New York	11685
North Carolina DENR	481
North Carolina DHHS (DW only)	37776
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029
Texas	T104704260-13-5
Utah	NC009192013-3
Virginia (DW only)	00235
Virginia	460214
Washington State	C913
West Virginia	293

**Sample ID: PB070\_B-2SWMID-140314-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.92 L	Sample ID:	A6506_11899_PCB_001	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	6	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	268				ES PCB-1	50.6	
PCB-81 344'5'-TeCB	13.2				ES PCB-3	61.4	
PCB-105 233'44'-PeCB	804				ES PCB-4	70.3	
PCB-114 2344'5'-PeCB	48.5				ES PCB-15	86.3	
PCB-118 23'44'5'-PeCB	1,410				ES PCB-19	78.9	
PCB-123 23'44'5'-PeCB	43.1				ES PCB-37	77.9	
PCB-126 33'44'5'-PeCB	EMPC		8.33	J	ES PCB-54	91.5	
PCB-156/157 233'44'5'/233'44'5'-HxCB	81.3			C	ES PCB-77	82.7	
PCB-167 23'44'55'-HxCB	22.5				ES PCB-81	80	
PCB-169 33'44'55'-HxCB	ND	1.8			ES PCB-104	99.6	
PCB-189 233'44'55'-HpCB	EMPC		3.81	J	ES PCB-105	85.2	
					ES PCB-114	83.1	
<b>TEQs (WHO M/H)</b>					ES PCB-118	85.9	
					ES PCB-123	83.6	
ND = 0	0.103		0.936		ES PCB-126	81.9	
ND = 0.5 x DL	0.23		0.963		ES PCB-153	84.4	
ND = DL	0.357		0.99		ES PCB-155	89.1	
					ES PCB-156/157	70.9	
<b>Totals</b>					ES PCB-167	73.3	
Mono-CBs	79				ES PCB-169	67.8	
Di-CBs	1,430				ES PCB-170	86.3	
Tri-CBs	16,400				ES PCB-180	87.2	
Tetra-CBs	36,300				ES PCB-188	103	
Penta-CBs	13,900		13,900		ES PCB-189	90	
Hexa-CBs	2,780				ES PCB-202	93.9	
Hepta-CBs	662		666		ES PCB-205	81.5	
Octa-CBs	149		155		ES PCB-206	84.6	
Nona-CBs	37.1		49.7		ES PCB-208	98.8	
Deca-CB	332				ES PCB-209	80.2	
					CS PCB-28	87.9	
Total PCB (Mono-Deca)	72,100		72,100		CS PCB-111	95.4	
					CS PCB-178	116	

Checkcode: 561-113-BSP


SGS Environmental Services - PCB 2014 Rev. 4.03

Report Created: 30-Mar-2014 14:29 Analyst: LB



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)

Sample ID: PB070_B-2SWMID-140314-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.92 L			Sample ID: A6506_11899_PCB_001			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 6			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 561-113-BSP			Time Analyzed: 14:18:19								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	70.1		PCB-19	356		PCB-54	15.4		PCB-72	20.8							
PCB-2	(1.82)		PCB-30/18	3,410	C	PCB-50/53	945	C	PCB-68	27.7							
PCB-3	8.95	J	PCB-17	1,100		PCB-45	979		PCB-57	14.7							
			PCB-27	191		PCB-51	198		PCB-58	7.23	J						
<b>Conc.</b>	79		PCB-24	22.6		PCB-46	373		PCB-67	79.5							
<b>EMPC</b>	79		PCB-16	1,180		PCB-52	5,850		PCB-63	120							
			PCB-32	1,020		PCB-73	10.2	J	PCB-61/70/74/76	6,050	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	9.81	J	PCB-43	188		PCB-66	3,670							
PCB-4	521		PCB-23	(2.94)		PCB-69/49	2,850	C	PCB-55	34.1							
PCB-10	22.1		PCB-26/29	471	C	PCB-48	1,000		PCB-56	1,760							
PCB-9	29.3		PCB-25	183		PCB-44/47/65	4,870	C	PCB-60	790							
PCB-7	10.9		PCB-31	3,110		PCB-59/62/75	362	C	PCB-80	(2.86)							
PCB-6	98.2		PCB-28/20	3,010	C	PCB-42	1,230		PCB-79	26.8							
PCB-5	7.67	J	PCB-21/33	893	C	PCB-41	444		PCB-78	(3.52)							
PCB-8	399		PCB-22	832		PCB-71/40	2,150	C	PCB-81	13.2							
PCB-14	(2.46)		PCB-36	(2.84)		PCB-64	1,940		PCB-77	268							
PCB-11	36.3	B	PCB-39	29.1													
PCB-13/12	32.8	C	PCB-38	7.03	J												
PCB-15	268		PCB-35	40.5													
			PCB-37	534													
<b>Conc.</b>	1,430		<b>Conc.</b>	16,400					<b>Conc.</b>	36,300							
<b>EMPC</b>	1,430		<b>EMPC</b>	16,400					<b>EMPC</b>	36,300							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						17,900			17,900		
						Tetra-Hexa						53,000			53,000		
						Hepta-Deca						1,180			1,200		
						Mono-Deca			72,100			72,100					

Sample ID: PB070_B-2SWMID-140314-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.986)		PCB-108/119/86/97/125/87	1,600	C	PCB-155	(0.836)		PCB-165	(1.25)	
PCB-96	53.3		PCB-117	66		PCB-152	(0.953)		PCB-146	80.5	
PCB-103	16.6		PCB-116/85	492	C	PCB-150	(0.94)		PCB-161	(1.15)	
PCB-94	25.6		PCB-110	2,160		PCB-136	84.1		PCB-153/168	416	C
PCB-95	1,670		PCB-115	75.3		PCB-145	(1)		PCB-141	111	
PCB-100/93	39.3	C	PCB-82	426		PCB-148	(1.46)		PCB-130	48.1	
PCB-102	114		PCB-111	(2.69)		PCB-151/135	177	C	PCB-137	39.3	
PCB-98	[4.61]	J EMPC	PCB-120	(2.65)		PCB-154	7.78	J	PCB-164	42	
PCB-88	15.8		PCB-107/124	71.9	C	PCB-144	28		PCB-163/138/129	682	C
PCB-91	410		PCB-109	118		PCB-147/149	440	C	PCB-160	(1.26)	
PCB-84	781		PCB-123	43.1		PCB-134	43.4		PCB-158	66.2	
PCB-89	83.3		PCB-106	3.41	J	PCB-143	4.91	J	PCB-128/166	120	C
PCB-121	(2.66)		PCB-118	1,410		PCB-139/140	15.7	J C	PCB-159	4.39	J
PCB-92	331		PCB-122	35.4		PCB-131	11.7		PCB-162	2.51	J
PCB-113/90/101	1,750	C	PCB-114	48.5		PCB-142	(1.77)		PCB-167	22.5	
PCB-83	129		PCB-105	804		PCB-132	243		PCB-156/157	81.3	C
PCB-99	1,140		PCB-127	(2.81)		PCB-133	9.04	J	PCB-169	(1.8)	
PCB-112	8.57	J	PCB-126	[8.33]	J EMPC						
			<b>Conc.</b>	13,900					<b>Conc.</b>	2,780	
			<b>EMPC</b>	13,900					<b>EMPC</b>	2,780	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.88)		PCB-174	84.8		PCB-202	11.2		PCB-208	[12.6]	EMPC
PCB-179	36.8		PCB-177	50.1		PCB-201	5.92	J	PCB-207	13.1	
PCB-184	(1.09)		PCB-181	(1.72)		PCB-204	(1.59)		PCB-206	24	
PCB-176	10.2	J	PCB-171/173	28.1	C	PCB-197	[2.05]	J EMPC			
PCB-186	(1.05)		PCB-172	14.6		PCB-200	[4.15]	J EMPC	<b>Conc.</b>	37.1	
PCB-178	16.9		PCB-192	(1.45)		PCB-198/199	44.6	C	<b>EMPC</b>	49.7	
PCB-175	3.98	J	PCB-180/193	160	C	PCB-196	17				
PCB-187	99		PCB-191	3.63	J	PCB-203	23.5		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.54)		PCB-170	85		PCB-195	14		PCB-209	332	
PCB-183	44.7		PCB-190	15.8		PCB-194	33				
PCB-185	8.33	J	PCB-189	[3.81]	J EMPC	PCB-205	(2.37)				
			<b>Conc.</b>	662		<b>Conc.</b>	149				
			<b>EMPC</b>	666		<b>EMPC</b>	155				

**Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.94 L	Sample ID:	A6506_11899_PCB_002	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	241				ES PCB-1	52.6	
PCB-81 344'5'-TeCB	10.1			J	ES PCB-3	64.4	
PCB-105 233'44'-PeCB	714				ES PCB-4	71.9	
PCB-114 2344'5'-PeCB	41				ES PCB-15	98.9	
PCB-118 23'44'5'-PeCB	1,270				ES PCB-19	79.4	
PCB-123 23'44'5'-PeCB	34.2				ES PCB-37	87.4	
PCB-126 33'44'5'-PeCB	7.34			J	ES PCB-54	80.9	
PCB-156/157 233'44'5'/233'44'5'-HxCB	67.7			C	ES PCB-77	93.8	
PCB-167 23'44'55'-HxCB	19.7				ES PCB-81	92.1	
PCB-169 33'44'55'-HxCB	ND	0.615			ES PCB-104	103	
PCB-189 233'44'55'-HpCB	2.96			J	ES PCB-105	93.9	
					ES PCB-114	91.7	
<b>TEQs (WHO M/H)</b>					ES PCB-118	94.3	
					ES PCB-123	92.4	
ND = 0	0.826			0.826	ES PCB-126	96.3	
ND = 0.5 x DL	0.835			0.835	ES PCB-153	93.8	
ND = DL	0.844			0.844	ES PCB-155	94.9	
					ES PCB-156/157	80.7	
<b>Totals</b>					ES PCB-167	81.1	
Mono-CBs	72.7				ES PCB-169	76.2	
Di-CBs	1,390				ES PCB-170	93.5	
Tri-CBs	16,700				ES PCB-180	94.4	
Tetra-CBs	33,400				ES PCB-188	112	
Penta-CBs	12,700				ES PCB-189	101	
Hexa-CBs	2,440			2,440	ES PCB-202	103	
Hepta-CBs	559			565	ES PCB-205	90.7	
Octa-CBs	127				ES PCB-206	90.8	
Nona-CBs	35.5				ES PCB-208	106	
Deca-CB	249				ES PCB-209	84.7	
					CS PCB-28	90	
Total PCB (Mono-Deca)	67,700			67,800	CS PCB-111	101	
					CS PCB-178	120	

Checkcode: 505-842-NMR


SGS Environmental Services - PCB 2014 Rev. 4.03

Report Created: 30-Mar-2014 14:29 Analyst: LB



5500 Business Drive  
Wilmington [www.us.sgs.com](http://www.us.sgs.com)  
North Carolina 28405  
USA

T: 910 794-1613

Sample ID: PB070_B-1SWMID-140314-N (TOTAL)										Method 1668A				
Client Data			Sample Data			Laboratory Data								
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014					
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.94 L			Sample ID: A6506_11899_PCB_002			Date Extracted: 19-Mar-2014					
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014					
			Units: pg/L			Checkcode: 505-842-NMR			Time Analyzed: 15:13:30					
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers			
PCB-1	61.8		PCB-19	391		PCB-54	16.6		PCB-72	18.6				
PCB-2	2.74	J	PCB-30/18	3,930	C	PCB-50/53	874	C	PCB-68	28				
PCB-3	8.23	J	PCB-17	1,310		PCB-45	907		PCB-57	12.8				
			PCB-27	226		PCB-51	198		PCB-58	7.46	J			
<b>Conc.</b>	72.7		PCB-24	26.4		PCB-46	364		PCB-67	71.2				
<b>EMPC</b>	72.7		PCB-16	1,430		PCB-52	5,340		PCB-63	107				
			PCB-32	1,190		PCB-73	10.2	J	PCB-61/70/74/76	5,500	C			
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	9.61	J	PCB-43	182		PCB-66	3,320				
PCB-4	531		PCB-23	(1.47)		PCB-69/49	2,610	C	PCB-55	34.9				
PCB-10	21.6		PCB-26/29	425	C	PCB-48	936		PCB-56	1,610				
PCB-9	24		PCB-25	165		PCB-44/47/65	4,590	C	PCB-60	687				
PCB-7	8.76	J	PCB-31	2,780		PCB-59/62/75	329	C	PCB-80	(1.14)				
PCB-6	88.7		PCB-28/20	2,740	C	PCB-42	1,170		PCB-79	20.3				
PCB-5	6.26	J	PCB-21/33	778	C	PCB-41	410		PCB-78	(1.4)				
PCB-8	362		PCB-22	732		PCB-71/40	2,060	C	PCB-81	10.1	J			
PCB-14	(1.07)		PCB-36	(1.42)		PCB-64	1,780		PCB-77	241				
PCB-11	35	B	PCB-39	27										
PCB-13/12	33.1	C	PCB-38	6.27	J									
PCB-15	279		PCB-35	40										
			PCB-37	482										
<b>Conc.</b>	1,390		<b>Conc.</b>	16,700					<b>Conc.</b>	33,400				
<b>EMPC</b>	1,390		<b>EMPC</b>	16,700					<b>EMPC</b>	33,400				
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>		
						Mono-Tri			18,100			18,100		
						Tetra-Hexa			48,600			48,600		
						Hepta-Deca			970			976		
			Mono-Deca			67,700			67,800					



Sample ID: PB070_B-1SWMID-140314-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.385)		PCB-108/119/86/97/125/87	1,460	C	PCB-155	(0.254)		PCB-165	(0.355)	
PCB-96	53.2		PCB-117	51.6		PCB-152	[1.02]	J EMPC	PCB-146	71.3	
PCB-103	16.3		PCB-116/85	456	C	PCB-150	[0.654]	J EMPC	PCB-161	(0.328)	
PCB-94	22.5		PCB-110	1,940		PCB-136	75.3		PCB-153/168	357	C
PCB-95	1,560		PCB-115	50.2		PCB-145	0.514	J	PCB-141	93.4	
PCB-100/93	37.4	C	PCB-82	385		PCB-148	0.868	J	PCB-130	42.1	
PCB-102	110		PCB-111	(1.17)		PCB-151/135	161	C	PCB-137	33.6	
PCB-98	7.38	J	PCB-120	3.14	J	PCB-154	6.26	J	PCB-164	37.7	
PCB-88	(1.79)		PCB-107/124	60.6	C	PCB-144	25.9		PCB-163/138/129	589	C
PCB-91	397		PCB-109	108		PCB-147/149	395	C	PCB-160	(0.357)	
PCB-84	761		PCB-123	34.2		PCB-134	41.4		PCB-158	58.9	
PCB-89	78.1		PCB-106	2.12	J	PCB-143	3.56	J	PCB-128/166	103	C
PCB-121	(1.16)		PCB-118	1,270		PCB-139/140	14.2	J C	PCB-159	3.28	J
PCB-92	310		PCB-122	31.9		PCB-131	11.8		PCB-162	2.14	J
PCB-113/90/101	1,610	C	PCB-114	41		PCB-142	(0.502)		PCB-167	19.7	
PCB-83	112		PCB-105	714		PCB-132	217		PCB-156/157	67.7	C
PCB-99	1,040		PCB-127	(1.28)		PCB-133	7.94	J	PCB-169	(0.615)	
PCB-112	5.28	J	PCB-126	[7.34]	J						
			<b>Conc.</b>	12,700					<b>Conc.</b>	2,440	
			<b>EMPC</b>	12,700					<b>EMPC</b>	2,440	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.345)		PCB-174	71.6		PCB-202	8.68	J	PCB-208	9.81	J
PCB-179	32.3		PCB-177	43.5		PCB-201	5.05	J	PCB-207	8.13	J
PCB-184	(0.426)		PCB-181	1.1	J	PCB-204	(0.475)		PCB-206	17.5	
PCB-176	8.88	J	PCB-171/173	24.6	C	PCB-197	1.69	J			
PCB-186	(0.409)		PCB-172	12.2		PCB-200	4.14	J	<b>Conc.</b>	35.5	
PCB-178	15.1		PCB-192	(0.541)		PCB-198/199	34.7	C	<b>EMPC</b>	35.5	
PCB-175	[3.06]	J EMPC	PCB-180/193	135	C	PCB-196	14.9				
PCB-187	84.1		PCB-191	[2.55]	J EMPC	PCB-203	18.7		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.573)		PCB-170	69		PCB-195	10.8		PCB-209	249	
PCB-183	38.2		PCB-190	12.9		PCB-194	26.6				
PCB-185	8	J	PCB-189	2.96	J	PCB-205	1.39	J			
			<b>Conc.</b>	559		<b>Conc.</b>	127				
			<b>EMPC</b>	565		<b>EMPC</b>	127				

**Sample ID: PB079-1SWMID-140314-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.96 L	Sample ID:	A6506_11899_PCB_003	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	101				ES PCB-1	42.5	
PCB-81 344'5'-TeCB	4.33			J	ES PCB-3	56.3	
PCB-105 233'44'-PeCB	320				ES PCB-4	63.4	
PCB-114 2344'5'-PeCB	18.1				ES PCB-15	95.1	
PCB-118 23'44'5'-PeCB	571				ES PCB-19	75.1	
PCB-123 23'44'5'-PeCB	16.7				ES PCB-37	82.5	
PCB-126 33'44'5'-PeCB	3.1			J	ES PCB-54	75.1	
PCB-156/157 233'44'5'/233'44'5'-HxCB	30.9			C	ES PCB-77	92.1	
PCB-167 23'44'55'-HxCB	9.03			J	ES PCB-81	89.5	
PCB-169 33'44'55'-HxCB	ND	0.533			ES PCB-104	93.2	
PCB-189 233'44'55'-HpCB	1.56			J	ES PCB-105	93	
					ES PCB-114	90.9	
<b>TEQs (WHO M/H)</b>					ES PCB-118	92.2	
					ES PCB-123	90.5	
ND = 0	0.351			0.351	ES PCB-126	92.6	
ND = 0.5 x DL	0.359			0.359	ES PCB-153	85.4	
ND = DL	0.367			0.367	ES PCB-155	82.3	
					ES PCB-156/157	75.6	
<b>Totals</b>					ES PCB-167	76.6	
Mono-CBs	61.2				ES PCB-169	71.7	
Di-CBs	746				ES PCB-170	88.1	
Tri-CBs	7,160			7,170	ES PCB-180	87.7	
Tetra-CBs	14,100				ES PCB-188	99.1	
Penta-CBs	5,540				ES PCB-189	94.4	
Hexa-CBs	1,170			1,180	ES PCB-202	93.5	
Hepta-CBs	271			282	ES PCB-205	86	
Octa-CBs	63.8			66.1	ES PCB-206	85.7	
Nona-CBs	18.5				ES PCB-208	100	
Deca-CB	121				ES PCB-209	79.8	
					CS PCB-28	88.5	
Total PCB (Mono-Deca)	29,200			29,300	CS PCB-111	103	
					CS PCB-178	117	

Checkcode: 109-950-QPX


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Report Created: 30-Mar-2014 14:29 Analyst: LB



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

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Sample ID: PB079-1SWMID-140314-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.96 L			Sample ID: A6506_11899_PCB_003			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 109-950-QPX			Time Analyzed: 16:08:42								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	49.8		PCB-19	192		PCB-54	8.1	J	PCB-72	8.43	J						
PCB-2	3.36	J	PCB-30/18	1,660	C	PCB-50/53	351	C	PCB-68	25.6							
PCB-3	8.1	J	PCB-17	564		PCB-45	370		PCB-57	5.56	J						
			PCB-27	102		PCB-51	82.3		PCB-58	3.14	J						
<b>Conc.</b>	61.2		PCB-24	9.1	J	PCB-46	143		PCB-67	29.2							
<b>EMPC</b>	61.2		PCB-16	585		PCB-52	2,260		PCB-63	47.4							
			PCB-32	543		PCB-73	4.14	J	PCB-61/70/74/76	2,350	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	5.08	J	PCB-43	72		PCB-66	1,420							
PCB-4	300		PCB-23	(1.14)		PCB-69/49	1,110	C	PCB-55	12.6							
PCB-10	11.6		PCB-26/29	198	C	PCB-48	367		PCB-56	697							
PCB-9	12		PCB-25	105		PCB-44/47/65	1,930	C	PCB-60	299							
PCB-7	5.81	J	PCB-31	1,160		PCB-59/62/75	140	C	PCB-80	(0.841)							
PCB-6	69.1		PCB-28/20	1,180	C	PCB-42	490		PCB-79	(0.834)							
PCB-5	3.05	J	PCB-21/33	320	C	PCB-41	144		PCB-78	(1.04)							
PCB-8	177		PCB-22	318		PCB-71/40	874	C	PCB-81	4.33	J						
PCB-14	(1.05)		PCB-36	(1.1)		PCB-64	752		PCB-77	101							
PCB-11	28.1	B	PCB-39	9.9	J												
PCB-13/12	23.1	C	PCB-38	[2.95]	J EMPC												
PCB-15	116		PCB-35	16.8													
			PCB-37	203													
<b>Conc.</b>	746		<b>Conc.</b>	7,160					<b>Conc.</b>	14,100							
<b>EMPC</b>	746		<b>EMPC</b>	7,170					<b>EMPC</b>	14,100							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						7,970			7,970		
						Tetra-Hexa						20,800			20,800		
						Hepta-Deca						475			488		
						Mono-Deca			29,200			29,300					

Sample ID: PB079-1SWMID-140314-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.379)		PCB-108/119/86/97/125/87	630	C	PCB-155	[0.433]	J EMPC	PCB-165	(0.363)	
PCB-96	23.8		PCB-117	26.2		PCB-152	0.801	J	PCB-146	34.7	
PCB-103	6.78	J	PCB-116/85	203	C	PCB-150	0.557	J	PCB-161	(0.335)	
PCB-94	9.94	J	PCB-110	860		PCB-136	36.7		PCB-153/168	179	C
PCB-95	655		PCB-115	30.1		PCB-145	(0.327)		PCB-141	45.7	
PCB-100/93	13.2	J C	PCB-82	170		PCB-148	(0.422)		PCB-130	21.1	
PCB-102	47.3		PCB-111	(0.713)		PCB-151/135	74.2	C	PCB-137	14.5	
PCB-98	2.09	J	PCB-120	(0.702)		PCB-154	2.93	J	PCB-164	20	
PCB-88	(1.08)		PCB-107/124	26.4	C	PCB-144	12.8		PCB-163/138/129	290	C
PCB-91	169		PCB-109	46.2		PCB-147/149	188	C	PCB-160	(0.364)	
PCB-84	311		PCB-123	16.7		PCB-134	19.3		PCB-158	28.9	
PCB-89	31.3		PCB-106	1.41	J	PCB-143	1.47	J	PCB-128/166	48.9	C
PCB-121	(0.704)		PCB-118	571		PCB-139/140	6.4	J C	PCB-159	2.1	J
PCB-92	134		PCB-122	14.2		PCB-131	[4.63]	J EMPC	PCB-162	1.3	J
PCB-113/90/101	695	C	PCB-114	18.1		PCB-142	(0.513)		PCB-167	9.03	J
PCB-83	53		PCB-105	320		PCB-132	101		PCB-156/157	30.9	C
PCB-99	447		PCB-127	(0.744)		PCB-133	3.74	J	PCB-169	(0.533)	
PCB-112	2.01	J	PCB-126	3.1	J						
			<b>Conc.</b>	5,540					<b>Conc.</b>	1,170	
			<b>EMPC</b>	5,540					<b>EMPC</b>	1,180	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.325)		PCB-174	36.5		PCB-202	4.71	J	PCB-208	4.79	J
PCB-179	16.3		PCB-177	21.1		PCB-201	[2.27]	J EMPC	PCB-207	4.31	J
PCB-184	(0.403)		PCB-181	(0.629)		PCB-204	(0.452)		PCB-206	9.42	J
PCB-176	4.9	J	PCB-171/173	[10.9]	J EMPC C	PCB-197	0.781	J			
PCB-186	(0.387)		PCB-172	6.01	J	PCB-200	2.2	J	<b>Conc.</b>	18.5	
PCB-178	7.84	J	PCB-192	(0.533)		PCB-198/199	18.6	J C	<b>EMPC</b>	18.5	
PCB-175	1.94	J	PCB-180/193	68.3	C	PCB-196	8.37	J			
PCB-187	41.5		PCB-191	1.44	J	PCB-203	10.6		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.565)		PCB-170	34.2		PCB-195	5.36	J	PCB-209	121	
PCB-183	19.9		PCB-190	6.69	J	PCB-194	13.2				
PCB-185	3.12	J	PCB-189	1.56	J	PCB-205	(0.564)				
			<b>Conc.</b>	271		<b>Conc.</b>	63.8				
			<b>EMPC</b>	282		<b>EMPC</b>	66.1				

**Sample ID: PB081\_A-1SWMID-140314-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.96 L	Sample ID:	A6506_11899_PCB_004	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	80.1				ES PCB-1	28.2	
PCB-81 344'5'-TeCB	EMPC		2.81	J	ES PCB-3	44.1	
PCB-105 233'44'-PeCB	250				ES PCB-4	49	
PCB-114 2344'5'-PeCB	13.4				ES PCB-15	92.2	
PCB-118 23'44'5'-PeCB	445				ES PCB-19	65.1	
PCB-123 23'44'5'-PeCB	13.7				ES PCB-37	90.8	
PCB-126 33'44'5'-PeCB	2.12			J	ES PCB-54	77.4	
PCB-156/157 233'44'5'/233'44'5'-HxCB	23.7			C	ES PCB-77	97.1	
PCB-167 23'44'55'-HxCB	7.15			J	ES PCB-81	94.8	
PCB-169 33'44'55'-HxCB	ND	0.545			ES PCB-104	106	
PCB-189 233'44'55'-HpCB	1.22			J	ES PCB-105	100	
					ES PCB-114	99	
<b>TEQs (WHO M/H)</b>					ES PCB-118	101	
					ES PCB-123	98.6	
ND = 0	0.243		0.243		ES PCB-126	99.4	
ND = 0.5 x DL	0.251		0.252		ES PCB-153	94.4	
ND = DL	0.259		0.26		ES PCB-155	93.9	
					ES PCB-156/157	83.1	
<b>Totals</b>					ES PCB-167	83.4	
Mono-CBs	47				ES PCB-169	79.1	
Di-CBs	576				ES PCB-170	96.6	
Tri-CBs	5,490				ES PCB-180	96.7	
Tetra-CBs	11,400		11,400		ES PCB-188	112	
Penta-CBs	4,470				ES PCB-189	103	
Hexa-CBs	889		901		ES PCB-202	103	
Hepta-CBs	199				ES PCB-205	93.7	
Octa-CBs	45.8		46.3		ES PCB-206	94.8	
Nona-CBs	8.74		10.3		ES PCB-208	110	
Deca-CB	54				ES PCB-209	89.3	
					CS PCB-28	94.6	
Total PCB (Mono-Deca)	23,200		23,200		CS PCB-111	107	
					CS PCB-178	121	

Checkcode: 761-905-WTS


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5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

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Sample ID: PB081_A-1SWMID-140314-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.96 L			Sample ID: A6506_11899_PCB_004			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 761-905-WTS			Time Analyzed: 17:03:52								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	38.7		PCB-19	187		PCB-54	7.25	J	PCB-72	6.31	J						
PCB-2	3.14	J	PCB-30/18	1,340	C	PCB-50/53	306	C	PCB-68	31.8							
PCB-3	5.17	J	PCB-17	482		PCB-45	315		PCB-57	4.15	J						
			PCB-27	91.5		PCB-51	82		PCB-58	[1.73]	J EMPC						
<b>Conc.</b>	47		PCB-24	7.41	J	PCB-46	123		PCB-67	23.4							
<b>EMPC</b>	47		PCB-16	470		PCB-52	1,880		PCB-63	35.7							
			PCB-32	508		PCB-73	3.48	J	PCB-61/70/74/76	1,800	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	3.73	J	PCB-43	60.4		PCB-66	1,120							
PCB-4	245		PCB-23	(0.973)		PCB-69/49	933	C	PCB-55	8.28	J						
PCB-10	9.5	J	PCB-26/29	150	C	PCB-48	301		PCB-56	539							
PCB-9	8.4	J	PCB-25	94.9		PCB-44/47/65	1,600	C	PCB-60	205							
PCB-7	3.72	J	PCB-31	782		PCB-59/62/75	113	C	PCB-80	(0.944)							
PCB-6	63.7		PCB-28/20	839	C	PCB-42	409		PCB-79	5.4	J						
PCB-5	2.44	J	PCB-21/33	181	C	PCB-41	115		PCB-78	(1.16)							
PCB-8	107		PCB-22	202		PCB-71/40	742	C	PCB-81	[2.81]	J EMPC						
PCB-14	(1.17)		PCB-36	(0.942)		PCB-64	594		PCB-77	80.1							
PCB-11	29	B	PCB-39	8.13	J												
PCB-13/12	21.8	C	PCB-38	(1.02)													
PCB-15	86		PCB-35	12.5													
			PCB-37	130													
<b>Conc.</b>	576		<b>Conc.</b>	5,490					<b>Conc.</b>	11,400							
<b>EMPC</b>	576		<b>EMPC</b>	5,490					<b>EMPC</b>	11,400							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						6,120			6,120		
						Tetra-Hexa						16,800			16,800		
						Hepta-Deca						308			310		
						Mono-Deca			23,200								

Sample ID: PB081_A-1SWMID-140314-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.405)		PCB-108/119/86/97/125/87	506	C	PCB-155	[0.44]	J EMPC	PCB-165	(0.409)	
PCB-96	20		PCB-117	20.3		PCB-152	[0.546]	J EMPC	PCB-146	27.2	
PCB-103	5.35	J	PCB-116/85	163	C	PCB-150	[0.423]	J EMPC	PCB-161	(0.378)	
PCB-94	8.82	J	PCB-110	702		PCB-136	28.8		PCB-153/168	133	C
PCB-95	533		PCB-115	16.5		PCB-145	(0.333)		PCB-141	35.6	
PCB-100/93	11.1	J C	PCB-82	142		PCB-148	(0.476)		PCB-130	16	
PCB-102	41.5		PCB-111	(0.689)		PCB-151/135	58.1	C	PCB-137	13	
PCB-98	(1.14)		PCB-120	(0.678)		PCB-154	[2.18]	J EMPC	PCB-164	13.9	
PCB-88	(1.05)		PCB-107/124	21.6	C	PCB-144	9.07	J	PCB-163/138/129	219	C
PCB-91	143		PCB-109	36.4		PCB-147/149	144	C	PCB-160	(0.411)	
PCB-84	267		PCB-123	13.7		PCB-134	16.2		PCB-158	22.5	
PCB-89	27.4		PCB-106	1.03	J	PCB-143	[1.13]	J EMPC	PCB-128/166	35.7	C
PCB-121	(0.681)		PCB-118	445		PCB-139/140	5.34	J C	PCB-159	[0.963]	J EMPC
PCB-92	110		PCB-122	11		PCB-131	[4.18]	J EMPC	PCB-162	0.722	J
PCB-113/90/101	559	C	PCB-114	13.4		PCB-142	(0.578)		PCB-167	7.15	J
PCB-83	41.4		PCB-105	250		PCB-132	80.1		PCB-156/157	23.7	C
PCB-99	361		PCB-127	(0.774)		PCB-133	[2.54]	J EMPC	PCB-169	(0.545)	
PCB-112	1.63	J	PCB-126	[2.12]	J						
			<b>Conc.</b>	4,470					<b>Conc.</b>	889	
			<b>EMPC</b>	4,470					<b>EMPC</b>	901	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.367)		PCB-174	25		PCB-202	3.14	J	PCB-208	2.44	J
PCB-179	11.4		PCB-177	14.4		PCB-201	1.89	J	PCB-207	[1.51]	J EMPC
PCB-184	(0.455)		PCB-181	(0.632)		PCB-204	(0.488)		PCB-206	6.3	J
PCB-176	3.29	J	PCB-171/173	8.58	J C	PCB-197	[0.495]	J EMPC			
PCB-186	(0.436)		PCB-172	4.87	J	PCB-200	1.71	J	<b>Conc.</b>	8.74	
PCB-178	5.86	J	PCB-192	(0.536)		PCB-198/199	13.4	J C	<b>EMPC</b>	10.3	
PCB-175	1.23	J	PCB-180/193	47.4	C	PCB-196	5.97	J			
PCB-187	30.3		PCB-191	1.18	J	PCB-203	7.04	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.568)		PCB-170	24.5		PCB-195	3.57	J	PCB-209	54	
PCB-183	13.1		PCB-190	4.48	J	PCB-194	9.06	J			
PCB-185	2.52	J	PCB-189	1.22	J	PCB-205	(0.589)				
			<b>Conc.</b>	199		<b>Conc.</b>	45.8				
			<b>EMPC</b>	199		<b>EMPC</b>	46.3				

**Sample ID: PB081\_A-1SWMID-140314-N (DISSOLVED)****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.93 L	Sample ID:	A6506_11899_PCB_005	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	15.9				ES PCB-1	30.8	
PCB-81 344'5'-TeCB	ND	1.36			ES PCB-3	41	
PCB-105 233'44'-PeCB	40.1				ES PCB-4	44.7	
PCB-114 2344'5'-PeCB	2.22			J	ES PCB-15	65.1	
PCB-118 23'44'5'-PeCB	73.3				ES PCB-19	52.3	
PCB-123 23'44'5'-PeCB	EMPC		2.05	J	ES PCB-37	75	
PCB-126 33'44'5'-PeCB	ND	1.2			ES PCB-54	61.6	
PCB-156/157 233'44'5'/233'44'5'-HxCB	EMPC		3.11	J C	ES PCB-77	77.4	
PCB-167 23'44'55'-HxCB	1.11			J	ES PCB-81	78	
PCB-169 33'44'55'-HxCB	ND	0.884			ES PCB-104	92.5	
PCB-189 233'44'55'-HpCB	ND	0.97			ES PCB-105	83.9	
					ES PCB-114	82.1	
<b>TEQs (WHO M/H)</b>					ES PCB-118	84.6	
					ES PCB-123	83.2	
ND = 0	0.00509		0.00524		ES PCB-126	83.8	
ND = 0.5 x DL	0.0788		0.0789		ES PCB-153	82.4	
ND = DL	0.153		0.153		ES PCB-155	83.1	
					ES PCB-156/157	70.4	
<b>Totals</b>					ES PCB-167	72.3	
Mono-CBs	44.3				ES PCB-169	66.6	
Di-CBs	495				ES PCB-170	80.3	
Tri-CBs	2,680		2,680		ES PCB-180	78.7	
Tetra-CBs	3,230		3,230		ES PCB-188	96.1	
Penta-CBs	802		816		ES PCB-189	82.3	
Hexa-CBs	116		144		ES PCB-202	90.6	
Hepta-CBs	12.6		28.1		ES PCB-205	65.5	
Octa-CBs			2.9		ES PCB-206	65.5	
Nona-CBs	ND	3.23			ES PCB-208	85.3	
Deca-CB	11.9				ES PCB-209	57.9	
					CS PCB-28	89.5	
Total PCB (Mono-Deca)	7,390		7,460		CS PCB-111	100	
					CS PCB-178	119	

Checkcode: 223-376-PJM

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Report Created: 30-Mar-2014 14:30 Analyst: LB



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Wilmington  
North Carolina 28405  
USA

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Sample ID: PB081_A-1SWMID-140314-N (DISSOLVED)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.93 L			Sample ID: A6506_11899_PCB_005			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 223-376-PJM			Time Analyzed: 17:59:02								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	38.8		PCB-19	116		PCB-54	[3.22]	J EMPC	PCB-72	(1.18)							
PCB-2	(2.02)		PCB-30/18	689	C	PCB-50/53	115	C	PCB-68	31.6							
PCB-3	5.52	J	PCB-17	240		PCB-45	109		PCB-57	(1.24)							
			PCB-27	46.8		PCB-51	47.9		PCB-58	(1.21)							
<b>Conc.</b>	44.3		PCB-24	[5.04]	J EMPC	PCB-46	45.7		PCB-67	5.69	J						
<b>EMPC</b>	44.3		PCB-16	249		PCB-52	599		PCB-63	8.38	J						
			PCB-32	240		PCB-73	1.24	J	PCB-61/70/74/76	408	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.76)		PCB-43	18.7		PCB-66	245							
PCB-4	213		PCB-23	(1.76)		PCB-69/49	276	C	PCB-55	2.19	J						
PCB-10	8.88	J	PCB-26/29	74.8	C	PCB-48	84.9		PCB-56	120							
PCB-9	8.3	J	PCB-25	61.6		PCB-44/47/65	487	C	PCB-60	50.1							
PCB-7	3.97	J	PCB-31	356		PCB-59/62/75	34.8	C	PCB-80	(1.11)							
PCB-6	62.3		PCB-28/20	364	C	PCB-42	114		PCB-79	(1.1)							
PCB-5	(2.76)		PCB-21/33	89.3	C	PCB-41	32.2		PCB-78	(1.37)							
PCB-8	93		PCB-22	99.8		PCB-71/40	212	C	PCB-81	(1.36)							
PCB-14	(2.32)		PCB-36	(1.7)		PCB-64	167		PCB-77	15.9							
PCB-11	34.5	B	PCB-39	(1.65)													
PCB-13/12	18.4	J C	PCB-38	(1.85)													
PCB-15	52.9		PCB-35	3.6	J												
			PCB-37	47.2													
<b>Conc.</b>	495		<b>Conc.</b>	2,680					<b>Conc.</b>	3,230							
<b>EMPC</b>	495		<b>EMPC</b>	2,680					<b>EMPC</b>	3,230							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						3,220			3,220		
						Tetra-Hexa						4,150			4,190		
						Hepta-Deca						24.4			42.9		
						Mono-Deca						7,390			7,460		

Sample ID: PB081_A-1SWMID-140314-N (DISSOLVED)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.743)		PCB-108/119/86/97/125/87	90.3	C	PCB-155	(0.489)		PCB-165	(0.69)	
PCB-96	[4.21]	J EMPC	PCB-117	[3.37]	J EMPC	PCB-152	(0.557)		PCB-146	5.28	J
PCB-103	(1.48)		PCB-116/85	26.8	C	PCB-150	(0.549)		PCB-161	(0.637)	
PCB-94	(1.76)		PCB-110	127		PCB-136	5.52	J B	PCB-153/168	23.8	B C
PCB-95	118		PCB-115	3.88	J	PCB-145	(0.587)		PCB-141	6.33	J
PCB-100/93	(1.6)	C	PCB-82	22.7		PCB-148	(0.804)		PCB-130	2.96	J
PCB-102	7.94	J	PCB-111	(1.16)		PCB-151/135	10.6	J C	PCB-137	2.2	J
PCB-98	(1.92)		PCB-120	(1.14)		PCB-154	(0.724)		PCB-164	2.16	J
PCB-88	(1.76)		PCB-107/124	3.85	J C	PCB-144	[1.89]	J EMPC	PCB-163/138/129	33.9	C
PCB-91	26.6		PCB-109	[4.6]	J EMPC	PCB-147/149	[21.4]	J B EMPC C	PCB-160	(0.693)	
PCB-84	53.4		PCB-123	[2.05]	J EMPC	PCB-134	[2.38]	J EMPC	PCB-158	3.8	J
PCB-89	5.16	J	PCB-106	(1.3)		PCB-143	(0.818)		PCB-128/166	5.65	J C
PCB-121	(1.15)		PCB-118	73.3		PCB-139/140	(0.813)	C	PCB-159	(0.759)	
PCB-92	21.6		PCB-122	(1.35)		PCB-131	(0.961)		PCB-162	(0.765)	
PCB-113/90/101	106	C	PCB-114	2.22	J	PCB-142	(0.975)		PCB-167	1.11	J
PCB-83	8.18	J	PCB-105	40.1		PCB-132	12.3	B	PCB-156/157	[3.11]	J EMPC C
PCB-99	64.6		PCB-127	(1.25)		PCB-133	(0.865)		PCB-169	(0.884)	
PCB-112	(1.19)		PCB-126	(1.2)							
			<b>Conc.</b>	802					<b>Conc.</b>	116	
			<b>EMPC</b>	816					<b>EMPC</b>	144	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.768)		PCB-174	4.59	J	PCB-202	(0.887)		PCB-208	(2.16)	
PCB-179	[2.03]	J EMPC	PCB-177	[2.36]	J EMPC	PCB-201	(0.823)		PCB-207	(2.14)	
PCB-184	(0.95)		PCB-181	(1.35)		PCB-204	(0.885)		PCB-206	(4.29)	
PCB-176	(0.855)		PCB-171/173	(1.53)	C	PCB-197	(0.826)				
PCB-186	(0.912)		PCB-172	(1.49)		PCB-200	(0.87)		<b>Conc.</b>	0	
PCB-178	(1.28)		PCB-192	(1.15)		PCB-198/199	[2.9]	J EMPC C	<b>EMPC</b>	0	
PCB-175	(1.34)		PCB-180/193	7.97	J B C	PCB-196	(1.22)				
PCB-187	[4.8]	J EMPC	PCB-191	(1.07)		PCB-203	(1.21)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.22)		PCB-170	[3.85]	J EMPC	PCB-195	(1.58)		PCB-209	11.9	
PCB-183	[2.54]	J EMPC	PCB-190	(1.17)		PCB-194	(1.47)				
PCB-185	(1.4)		PCB-189	(0.97)		PCB-205	(1.18)				
			<b>Conc.</b>	12.6		<b>Conc.</b>	0				
			<b>EMPC</b>	28.1		<b>EMPC</b>	2.9				

**Sample ID: PB089-1SWMID-140314-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.96 L	Sample ID:	A6506_11899_PCB_006	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	33.7				ES PCB-1	31.3	
PCB-81 344'5'-TeCB	1.79			J	ES PCB-3	42.5	
PCB-105 233'44'-PeCB	107				ES PCB-4	47.8	
PCB-114 2344'5'-PeCB	5.96			J	ES PCB-15	76.3	
PCB-118 23'44'5'-PeCB	206				ES PCB-19	58.3	
PCB-123 23'44'5'-PeCB	5.43			J	ES PCB-37	76.2	
PCB-126 33'44'5'-PeCB	ND	1.42			ES PCB-54	74.5	
PCB-156/157 233'44'5'/233'44'5'-HxCB	14.3			J C	ES PCB-77	82.4	
PCB-167 23'44'55'-HxCB	EMPC		3.75	J	ES PCB-81	81	
PCB-169 33'44'55'-HxCB	ND	0.68			ES PCB-104	93.1	
PCB-189 233'44'55'-HpCB	ND	0.723			ES PCB-105	85.1	
					ES PCB-114	84.2	
<b>TEQs (WHO M/H)</b>					ES PCB-118	87.1	
					ES PCB-123	83.1	
ND = 0	0.014		0.0142		ES PCB-126	87	
ND = 0.5 x DL	0.0953		0.0954		ES PCB-153	82.7	
ND = DL	0.177		0.177		ES PCB-155	80.9	
					ES PCB-156/157	71.1	
<b>Totals</b>					ES PCB-167	71.5	
Mono-CBs	21.9				ES PCB-169	66.4	
Di-CBs	339				ES PCB-170	84.6	
Tri-CBs	2,090		2,090		ES PCB-180	84	
Tetra-CBs	4,050		4,050		ES PCB-188	98.4	
Penta-CBs	1,920		1,930		ES PCB-189	88.4	
Hexa-CBs	539		546		ES PCB-202	90.8	
Hepta-CBs	146		149		ES PCB-205	76.9	
Octa-CBs	27.2		32.7		ES PCB-206	77.3	
Nona-CBs	ND	2.03			ES PCB-208	92	
Deca-CB	11.5				ES PCB-209	69.8	
					CS PCB-28	87	
Total PCB (Mono-Deca)	9,140		9,180		CS PCB-111	98.8	
					CS PCB-178	114	

Checkcode: 431-600-JCR


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USA

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Sample ID: PB089-1SWMID-140314-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.96 L			Sample ID: A6506_11899_PCB_006			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 431-600-JCR			Time Analyzed: 18:54:13								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	17.6		PCB-19	82.4		PCB-54	3.06	J	PCB-72	4.52	J						
PCB-2	(1.44)		PCB-30/18	389	C	PCB-50/53	113	C	PCB-68	29.5							
PCB-3	4.25	J	PCB-17	180		PCB-45	77.1		PCB-57	3.22	J						
			PCB-27	32.1		PCB-51	59.2		PCB-58	[1.28]	J EMPC						
<b>Conc.</b>	21.9		PCB-24	[2.93]	J EMPC	PCB-46	42.1		PCB-67	10.4							
<b>EMPC</b>	21.9		PCB-16	118		PCB-52	666		PCB-63	18.2							
			PCB-32	195		PCB-73	1.62	J	PCB-61/70/74/76	600	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	3.37	J	PCB-43	20.6		PCB-66	403							
PCB-4	125		PCB-23	(1.71)		PCB-69/49	372	C	PCB-55	5.32	J						
PCB-10	4.8	J	PCB-26/29	97.9	C	PCB-48	74.5		PCB-56	182							
PCB-9	4.53	J	PCB-25	110		PCB-44/47/65	574	C	PCB-60	77.1							
PCB-7	2.63	J	PCB-31	315		PCB-59/62/75	40	C	PCB-80	(1.05)							
PCB-6	60.3		PCB-28/20	366	C	PCB-42	147		PCB-79	2.73	J						
PCB-5	(2.39)		PCB-21/33	56.7	C	PCB-41	27.3		PCB-78	(1.3)							
PCB-8	46.8		PCB-22	88.5		PCB-71/40	251	C	PCB-81	1.79	J						
PCB-14	(2.02)		PCB-36	(1.65)		PCB-64	210		PCB-77	33.7							
PCB-11	37.4	B	PCB-39	2.69	J												
PCB-13/12	22	C	PCB-38	(1.8)													
PCB-15	35.6		PCB-35	6.89	J												
			PCB-37	47.6													
<b>Conc.</b>	339		<b>Conc.</b>	2,090					<b>Conc.</b>	4,050							
<b>EMPC</b>	339		<b>EMPC</b>	2,090					<b>EMPC</b>	4,050							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						2,450			2,450		
						Tetra-Hexa						6,500			6,530		
						Hepta-Deca						185			193		
						Mono-Deca			9,140			9,180					

Sample ID: PB089-1SWMID-140314-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.495)		PCB-108/119/86/97/125/87	209	C	PCB-155	[0.733]	J EMPC	PCB-165	(0.461)	
PCB-96	[5.99]	J EMPC	PCB-117	10.3	J	PCB-152	(0.405)		PCB-146	18	
PCB-103	[3.2]	J EMPC	PCB-116/85	64.2	C	PCB-150	(0.399)		PCB-161	(0.425)	
PCB-94	3.28	J	PCB-110	316		PCB-136	17.3		PCB-153/168	86.5	C
PCB-95	220		PCB-115	5.63	J	PCB-145	(0.426)		PCB-141	19.3	
PCB-100/93	5.39	J C	PCB-82	50.9		PCB-148	(0.536)		PCB-130	8.89	J
PCB-102	15.9		PCB-111	(0.935)		PCB-151/135	35.8	C	PCB-137	6.64	J
PCB-98	(1.55)		PCB-120	(0.921)		PCB-154	1.48	J	PCB-164	9.2	J
PCB-88	(1.42)		PCB-107/124	9.76	J C	PCB-144	5.12	J	PCB-163/138/129	136	C
PCB-91	60.4		PCB-109	17.5		PCB-147/149	88.2	C	PCB-160	(0.463)	
PCB-84	106		PCB-123	5.43	J	PCB-134	9.02	J	PCB-158	12.8	
PCB-89	[9.09]	J EMPC	PCB-106	(1.05)		PCB-143	(0.546)		PCB-128/166	21.1	C
PCB-121	(0.924)		PCB-118	206		PCB-139/140	2.83	J C	PCB-159	(0.633)	
PCB-92	52.8		PCB-122	3.94	J	PCB-131	[2.03]	J EMPC	PCB-162	(0.638)	
PCB-113/90/101	257	C	PCB-114	5.96	J	PCB-142	(0.651)		PCB-167	[3.75]	J EMPC
PCB-83	20.8		PCB-105	107		PCB-132	44.7		PCB-156/157	14.3	J C
PCB-99	163		PCB-127	(0.95)		PCB-133	1.51	J	PCB-169	(0.68)	
PCB-112	(0.962)		PCB-126	(1.42)							
			<b>Conc.</b>	1,920					<b>Conc.</b>	539	
			<b>EMPC</b>	1,930					<b>EMPC</b>	546	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.466)		PCB-174	19.5		PCB-202	2.89	J	PCB-208	(1.51)	
PCB-179	8.93	J	PCB-177	10.7		PCB-201	1.47	J	PCB-207	(1.49)	
PCB-184	2.25	J	PCB-181	(0.876)		PCB-204	(0.694)		PCB-206	(2.55)	
PCB-176	2.28	J	PCB-171/173	6.1	J C	PCB-197	(0.648)				
PCB-186	(0.553)		PCB-172	2.66	J	PCB-200	1.07	J	<b>Conc.</b>	0	
PCB-178	3.91	J	PCB-192	(0.742)		PCB-198/199	9.96	J C	<b>EMPC</b>	0	
PCB-175	(0.867)		PCB-180/193	36.3	C	PCB-196	[3.34]	J EMPC			
PCB-187	23.5		PCB-191	(0.694)		PCB-203	5.14	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.787)		PCB-170	17.2		PCB-195	[2.18]	J EMPC	PCB-209	11.5	
PCB-183	10.6		PCB-190	[3.08]	J EMPC	PCB-194	6.68	J			
PCB-185	1.93	J	PCB-189	(0.723)		PCB-205	(0.93)				
			<b>Conc.</b>	146		<b>Conc.</b>	27.2				
			<b>EMPC</b>	149		<b>EMPC</b>	32.7				

**Sample ID: PB085-1SWMID-140314-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.97 L	Sample ID:	A6506_11899_PCB_007	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	19.1				ES PCB-1	29.8	
PCB-81 344'5'-TeCB	ND	1.26			ES PCB-3	40.9	
PCB-105 233'44'-PeCB	60.1				ES PCB-4	44.8	
PCB-114 2344'5'-PeCB	EMPC		3.67	J	ES PCB-15	70.6	
PCB-118 23'44'5'-PeCB	116				ES PCB-19	51.8	
PCB-123 23'44'5'-PeCB	3.38			J	ES PCB-37	72.7	
PCB-126 33'44'5'-PeCB	ND	1.14			ES PCB-54	61.1	
PCB-156/157 233'44'5'/233'44'5'-HxCB	7.42			J C	ES PCB-77	80.3	
PCB-167 23'44'55'-HxCB	2.49			J	ES PCB-81	77.5	
PCB-169 33'44'55'-HxCB	ND	0.643			ES PCB-104	81.2	
PCB-189 233'44'55'-HpCB	ND	0.723			ES PCB-105	82.1	
					ES PCB-114	79.2	
<b>TEQs (WHO M/H)</b>					ES PCB-118	82	
					ES PCB-123	79.7	
ND = 0	0.00759		0.0077		ES PCB-126	82.6	
ND = 0.5 x DL	0.0743		0.0744		ES PCB-153	78.4	
ND = DL	0.141		0.141		ES PCB-155	74.4	
					ES PCB-156/157	69.2	
<b>Totals</b>					ES PCB-167	69.4	
Mono-CBs			28.6		ES PCB-169	66.3	
Di-CBs	353				ES PCB-170	79.9	
Tri-CBs	1,890				ES PCB-180	79	
Tetra-CBs	2,830		2,840		ES PCB-188	91.1	
Penta-CBs	1,130		1,130		ES PCB-189	86.1	
Hexa-CBs	313				ES PCB-202	86.6	
Hepta-CBs	75.4		86.9		ES PCB-205	78	
Octa-CBs	14		19.7		ES PCB-206	80.4	
Nona-CBs	ND	1.98			ES PCB-208	88.2	
Deca-CB	12				ES PCB-209	75.8	
					CS PCB-28	90.1	
Total PCB (Mono-Deca)	6,620		6,680		CS PCB-111	101	
					CS PCB-178	120	

Checkcode: 507-769-DWM


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Report Created: 30-Mar-2014 14:31 Analyst: LB



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Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
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Sample ID: PB085-1SWMID-140314-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.97 L			Sample ID: A6506_11899_PCB_007			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 507-769-DWM			Time Analyzed: 19:49:23								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	[23.3]	EMPC	PCB-19	91.2		PCB-54	[2.32]	J EMPC	PCB-72	1.86	J						
PCB-2	(1.48)		PCB-30/18	418	C	PCB-50/53	87	C	PCB-68	26.7							
PCB-3	[5.34]	J EMPC	PCB-17	176		PCB-45	65.1		PCB-57	1.24	J						
			PCB-27	34		PCB-51	54.5		PCB-58	(1.12)							
<b>Conc.</b>	0		PCB-24	3.55	J	PCB-46	35		PCB-67	5.26	J						
<b>EMPC</b>	28.6		PCB-16	138		PCB-52	473		PCB-63	10.3	J						
			PCB-32	186		PCB-73	1.35	J	PCB-61/70/74/76	394	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	2.13	J	PCB-43	14		PCB-66	253							
PCB-4	145		PCB-23	(1.76)		PCB-69/49	253	C	PCB-55	2.97	J						
PCB-10	4.88	J	PCB-26/29	68.3	C	PCB-48	58.7		PCB-56	122							
PCB-9	5.08	J	PCB-25	71.8		PCB-44/47/65	418	C	PCB-60	51							
PCB-7	(3.07)		PCB-31	253		PCB-59/62/75	29.7	J C	PCB-80	(1.03)							
PCB-6	57		PCB-28/20	283	C	PCB-42	105		PCB-79	1.46	J						
PCB-5	(3.26)		PCB-21/33	52.9	C	PCB-41	22		PCB-78	(1.27)							
PCB-8	57.1		PCB-22	73.6		PCB-71/40	179	C	PCB-81	(1.26)							
PCB-14	(2.75)		PCB-36	(1.71)		PCB-64	151		PCB-77	19.1							
PCB-11	30.7	B	PCB-39	(1.66)													
PCB-13/12	18.9	J C	PCB-38	(1.85)													
PCB-15	34.5		PCB-35	3.97	J												
			PCB-37	36.5													
<b>Conc.</b>	353		<b>Conc.</b>	1,890					<b>Conc.</b>	2,830							
<b>EMPC</b>	353		<b>EMPC</b>	1,890					<b>EMPC</b>	2,840							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						2,240			2,270		
						Tetra-Hexa						4,280			4,280		
						Hepta-Deca						101			119		
						Mono-Deca			6,620			6,680					

Sample ID: PB085-1SWMID-140314-N (TOTAL)						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.564)		PCB-108/119/86/97/125/87	122	C	PCB-155	(0.421)		PCB-165	(0.56)	
PCB-96	4.31	J	PCB-117	3.64	J	PCB-152	(0.48)		PCB-146	9.9	J
PCB-103	[1.43]	J EMPC	PCB-116/85	41.4	C	PCB-150	(0.474)		PCB-161	(0.517)	
PCB-94	[1.82]	J EMPC	PCB-110	186		PCB-136	10	J	PCB-153/168	50.4	C
PCB-95	135		PCB-115	2.41	J	PCB-145	(0.506)		PCB-141	11.9	
PCB-100/93	2.86	J C	PCB-82	31.2		PCB-148	(0.652)		PCB-130	5.15	J
PCB-102	9.42	J	PCB-111	(0.719)		PCB-151/135	21	C	PCB-137	3.5	J
PCB-98	(1.19)		PCB-120	(0.708)		PCB-154	(0.588)		PCB-164	4.48	J
PCB-88	(1.09)		PCB-107/124	5.89	J C	PCB-144	3.1	J	PCB-163/138/129	77.6	C
PCB-91	34.1		PCB-109	10.2	J	PCB-147/149	51.3	C	PCB-160	(0.563)	
PCB-84	64.3		PCB-123	3.38	J	PCB-134	5.73	J	PCB-158	7.84	J
PCB-89	5.57	J	PCB-106	(0.804)		PCB-143	(0.664)		PCB-128/166	11.8	J C
PCB-121	(0.711)		PCB-118	116		PCB-139/140	1.9	J C	PCB-159	(0.593)	
PCB-92	31.3		PCB-122	2.98	J	PCB-131	1.33	J	PCB-162	(0.598)	
PCB-113/90/101	149	C	PCB-114	[3.67]	J EMPC	PCB-142	(0.792)		PCB-167	2.49	J
PCB-83	11.6		PCB-105	60.1		PCB-132	26.4		PCB-156/157	7.42	J C
PCB-99	94.1		PCB-127	(0.767)		PCB-133	(0.702)		PCB-169	(0.643)	
PCB-112	(0.74)		PCB-126	(1.14)							
			<b>Conc.</b>	1,130					<b>Conc.</b>	313	
			<b>EMPC</b>	1,130					<b>EMPC</b>	313	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.516)		PCB-174	10.8		PCB-202	1.68	J	PCB-208	(1.53)	
PCB-179	5.21	J	PCB-177	5.68	J	PCB-201	(0.712)		PCB-207	(1.52)	
PCB-184	(0.638)		PCB-181	(0.915)		PCB-204	(0.766)		PCB-206	(2.43)	
PCB-176	[1.64]	J EMPC	PCB-171/173	[3.85]	J EMPC C	PCB-197	(0.715)				
PCB-186	(0.613)		PCB-172	1.9	J	PCB-200	(0.753)		<b>Conc.</b>	0	
PCB-178	2.48	J	PCB-192	(0.776)		PCB-198/199	6.53	J C	<b>EMPC</b>	0	
PCB-175	(0.906)		PCB-180/193	21.9	C	PCB-196	[2.49]	J EMPC			
PCB-187	13.4		PCB-191	(0.725)		PCB-203	[3.15]	J EMPC	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.822)		PCB-170	12		PCB-195	1.74	J	PCB-209	12	
PCB-183	[5.97]	J EMPC	PCB-190	2.09	J	PCB-194	4.06	J			
PCB-185	(0.948)		PCB-189	(0.723)		PCB-205	(0.828)				
			<b>Conc.</b>	75.4		<b>Conc.</b>	14				
			<b>EMPC</b>	86.9		<b>EMPC</b>	19.7				



**Sample ID: PB097\_A-1SWMID-140314-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	15-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	0.96 L	Sample ID:	A6506_11899_PCB_008	Date Extracted:	19-Mar-2014
Date Collected:	14-Mar-2014	pH	7	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	8.1			J	ES PCB-1	31.3	
PCB-81 344'5'-TeCB	ND	0.718			ES PCB-3	44.1	
PCB-105 233'44'-PeCB	23.4				ES PCB-4	49.4	
PCB-114 2344'5'-PeCB	EMPC		1.5	J	ES PCB-15	84.7	
PCB-118 23'44'5'-PeCB	45.9				ES PCB-19	61.5	
PCB-123 23'44'5'-PeCB	EMPC		1.16	J	ES PCB-37	78.8	
PCB-126 33'44'5'-PeCB	ND	0.633			ES PCB-54	67.4	
PCB-156/157 233'44'5'/233'44'5'-HxCB	3.58			J C	ES PCB-77	85.6	
PCB-167 23'44'55'-HxCB	1.16			J	ES PCB-81	83.2	
PCB-169 33'44'55'-HxCB	ND	0.435			ES PCB-104	95.7	
PCB-189 233'44'55'-HpCB	ND	0.489			ES PCB-105	88	
					ES PCB-114	88	
<b>TEQs (WHO M/H)</b>					ES PCB-118	89.2	
					ES PCB-123	86.9	
ND = 0	0.00303		0.00311		ES PCB-126	87.3	
ND = 0.5 x DL	0.0413		0.0414		ES PCB-153	85.4	
ND = DL	0.0796		0.0797		ES PCB-155	85.3	
					ES PCB-156/157	73.3	
<b>Totals</b>					ES PCB-167	74.8	
Mono-CBs	13.7		16.8		ES PCB-169	69	
Di-CBs	159		174		ES PCB-170	85.6	
Tri-CBs	768		770		ES PCB-180	84.7	
Tetra-CBs	1,090		1,090		ES PCB-188	101	
Penta-CBs	450		456		ES PCB-189	89.5	
Hexa-CBs	127		132		ES PCB-202	94.3	
Hepta-CBs	17.4		33.7		ES PCB-205	78.7	
Octa-CBs	4.67		8.77		ES PCB-206	80.4	
Nona-CBs	ND	1.31			ES PCB-208	95.9	
Deca-CB	2.81			J	ES PCB-209	74.5	
					CS PCB-28	86.9	
Total PCB (Mono-Deca)	2,630		2,690		CS PCB-111	98.4	
					CS PCB-178	116	

Checkcode: 581-063-DWJ


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5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
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Sample ID: PB097_A-1SWMID-140314-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: 15-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 0.96 L			Sample ID: A6506_11899_PCB_008			Date Extracted: 19-Mar-2014								
Date Collected: 14-Mar-2014			pH: 7			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 581-063-DWJ			Time Analyzed: 20:44:35								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	12		PCB-19	35.9		PCB-54	1.37	J	PCB-72	1.05	J						
PCB-2	1.76	J	PCB-30/18	157	C	PCB-50/53	33.3	C	PCB-68	16.7							
PCB-3	[3.04]	J EMPC	PCB-17	76.1		PCB-45	24		PCB-57	(0.652)							
			PCB-27	13.3		PCB-51	24.2		PCB-58	(0.637)							
<b>Conc.</b>	13.7		PCB-24	[1.95]	J EMPC	PCB-46	12.6		PCB-67	[2.34]	J EMPC						
<b>EMPC</b>	16.8		PCB-16	49.7		PCB-52	186		PCB-63	5.02	J						
			PCB-32	74.5		PCB-73	[0.711]	J EMPC	PCB-61/70/74/76	142	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	1.04	J	PCB-43	5.72	J	PCB-66	88.3							
PCB-4	64.5		PCB-23	(0.828)		PCB-69/49	104	C	PCB-55	1.33	J						
PCB-10	(1.83)		PCB-26/29	34.6	C	PCB-48	20.1		PCB-56	45.2							
PCB-9	2.34	J	PCB-25	42.9		PCB-44/47/65	168	C	PCB-60	17.5							
PCB-7	1.52	J	PCB-31	99.7		PCB-59/62/75	11.7	J C	PCB-80	(0.587)							
PCB-6	31.9		PCB-28/20	117	C	PCB-42	41.2		PCB-79	0.891	J						
PCB-5	(1.24)		PCB-21/33	16.8	J C	PCB-41	8.24	J	PCB-78	(0.723)							
PCB-8	23.7		PCB-22	30.1		PCB-71/40	68.8	C	PCB-81	(0.718)							
PCB-14	(1.04)		PCB-36	(0.801)		PCB-64	56.4		PCB-77	8.1	J						
PCB-11	24.1	B	PCB-39	(0.778)													
PCB-13/12	10.8	J C	PCB-38	(0.87)													
PCB-15	[15.3]	EMPC	PCB-35	3.04	J												
			PCB-37	15.8													
<b>Conc.</b>	159		<b>Conc.</b>	768					<b>Conc.</b>	1,090							
<b>EMPC</b>	174		<b>EMPC</b>	770					<b>EMPC</b>	1,090							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						941			961		
						Tetra-Hexa						1,670			1,680		
						Hepta-Deca						24.9			45.3		
						Mono-Deca						2,630			2,690		

Sample ID: PB097_A-1SWMID-140314-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.363)		PCB-108/119/86/97/125/87	50.3	J C	PCB-155	0.64	J	PCB-165	(0.333)	
PCB-96	[1.56]	J EMPC	PCB-117	3.48	J	PCB-152	(0.284)		PCB-146	4.65	J
PCB-103	(0.699)		PCB-116/85	13.9	J C	PCB-150	(0.281)		PCB-161	(0.308)	
PCB-94	(0.833)		PCB-110	73.9		PCB-136	4.17	J B	PCB-153/168	21	B C
PCB-95	56.5		PCB-115	2.25	J	PCB-145	(0.3)		PCB-141	4.67	J
PCB-100/93	1.51	J C	PCB-82	12.5		PCB-148	(0.388)		PCB-130	[1.92]	J EMPC
PCB-102	3.59	J	PCB-111	(0.55)		PCB-151/135	9.19	J C	PCB-137	1.41	J
PCB-98	(0.911)		PCB-120	(0.541)		PCB-154	(0.35)		PCB-164	[1.79]	J EMPC
PCB-88	(0.836)		PCB-107/124	2.47	J C	PCB-144	[1.21]	J EMPC	PCB-163/138/129	32.3	C
PCB-91	14.1		PCB-109	4.45	J	PCB-147/149	20.6	J B C	PCB-160	(0.335)	
PCB-84	25.9		PCB-123	[1.16]	J EMPC	PCB-134	2.34	J	PCB-158	3.04	J
PCB-89	[2.05]	J EMPC	PCB-106	(0.615)		PCB-143	(0.395)		PCB-128/166	5.02	J C
PCB-121	(0.543)		PCB-118	45.9		PCB-139/140	0.835	J C	PCB-159	(0.375)	
PCB-92	12.5		PCB-122	0.968	J	PCB-131	0.706	J	PCB-162	(0.378)	
PCB-113/90/101	59.8	C	PCB-114	[1.5]	J EMPC	PCB-142	(0.471)		PCB-167	1.16	J
PCB-83	4.89	J	PCB-105	23.4		PCB-132	10.9	B	PCB-156/157	3.58	J C
PCB-99	37.1		PCB-127	(0.602)		PCB-133	0.634	J	PCB-169	(0.435)	
PCB-112	(0.566)		PCB-126	(0.633)							
			<b>Conc.</b>	450					<b>Conc.</b>	127	
			<b>EMPC</b>	456					<b>EMPC</b>	132	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.335)		PCB-174	4.48	J	PCB-202	[0.712]	J EMPC	PCB-208	(0.961)	
PCB-179	2.25	J	PCB-177	[2.03]	J EMPC	PCB-201	(0.432)		PCB-207	(0.953)	
PCB-184	[0.846]	J EMPC	PCB-181	(0.578)		PCB-204	(0.464)		PCB-206	(1.66)	
PCB-176	[0.581]	J EMPC	PCB-171/173	[1.22]	J EMPC C	PCB-197	(0.433)				
PCB-186	(0.398)		PCB-172	(0.637)		PCB-200	(0.456)		<b>Conc.</b>	0	
PCB-178	1.12	J	PCB-192	(0.49)		PCB-198/199	[3.38]	J EMPC C	<b>EMPC</b>	0	
PCB-175	(0.572)		PCB-180/193	8.74	J B C	PCB-196	1.11	J			
PCB-187	[5.53]	J EMPC	PCB-191	(0.458)		PCB-203	1.64	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.52)		PCB-170	[3.63]	J EMPC	PCB-195	(0.73)		PCB-209	2.81	J
PCB-183	[2.49]	J EMPC	PCB-190	0.829	J	PCB-194	1.93	J			
PCB-185	(0.599)		PCB-189	(0.489)		PCB-205	(0.548)				
			<b>Conc.</b>	17.4		<b>Conc.</b>	4.67				
			<b>EMPC</b>	33.7		<b>EMPC</b>	8.77				

**Sample ID: Method Blank A6506****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6506	Date Received:	n/a
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	1.00 L	Sample ID:	MB1_11899_PCB_TLX	Date Extracted:	19-Mar-2014
Date Collected:	n/a	pH	n/a	QC Batch No.:	11899	Date Analyzed:	27-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	0.969			ES PCB-1	59.7	
PCB-81 344'5'-TeCB	ND	1.04			ES PCB-3	70.1	
PCB-105 233'44'-PeCB	1.06			J	ES PCB-4	81	
PCB-114 2344'5'-PeCB	ND	0.542			ES PCB-15	91.1	
PCB-118 23'44'5'-PeCB	2.29			J	ES PCB-19	85.8	
PCB-123 23'44'5'-PeCB	ND	0.543			ES PCB-37	83.1	
PCB-126 33'44'5'-PeCB	ND	0.763			ES PCB-54	90.3	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	0.929		C	ES PCB-77	90.4	
PCB-167 23'44'55'-HxCB	ND	0.614			ES PCB-81	90	
PCB-169 33'44'55'-HxCB	ND	0.71			ES PCB-104	97.6	
PCB-189 233'44'55'-HpCB	ND	0.784			ES PCB-105	92.2	
					ES PCB-114	89.8	
<b>TEQs (WHO M/H)</b>					ES PCB-118	93.6	
					ES PCB-123	92.5	
ND = 0	0.0001		0.0001		ES PCB-126	92.9	
ND = 0.5 x DL	0.0491		0.0491		ES PCB-153	89.2	
ND = DL	0.0982		0.0982		ES PCB-155	90.7	
					ES PCB-156/157	74.9	
<b>Totals</b>					ES PCB-167	76.7	
Mono-CBs	ND	0.949			ES PCB-169	72.4	
Di-CBs	9.36				ES PCB-170	90.3	
Tri-CBs	6.48		8.82		ES PCB-180	89.3	
Tetra-CBs	9.73		12.5		ES PCB-188	107	
Penta-CBs	16.7		20.4		ES PCB-189	96.9	
Hexa-CBs	11.5				ES PCB-202	97.7	
Hepta-CBs	1.57				ES PCB-205	88.4	
Octa-CBs	ND	0.678			ES PCB-206	92.4	
Nona-CBs	ND	2.16			ES PCB-208	104	
Deca-CB	ND	0.863			ES PCB-209	87.4	
					CS PCB-28	89.2	
Total PCB (Mono-Deca)	55.4		64.1		CS PCB-111	103	
					CS PCB-178	115	

Checkcode: 733-035-NQY


SGS Environmental Services - PCB 2014 Rev. 4.03

Report Created: 30-Mar-2014 14:28 Analyst: LB



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)

Sample ID: Method Blank A6506						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6506			Date Received: n/a								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 1.00 L			Sample ID: MB1_11899_PCB_TLX			Date Extracted: 19-Mar-2014								
Date Collected: n/a			pH: n/a			QC Batch No.: 11899			Date Analyzed: 27-Mar-2014								
			Units: pg/L			Checkcode: 733-035-NQY			Time Analyzed: 13:23:08								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(0.923)		PCB-19	(1.59)		PCB-54	(0.708)		PCB-72	(0.905)							
PCB-2	(0.822)		PCB-30/18	2.66	J C	PCB-50/53	(0.752)	C	PCB-68	(0.854)							
PCB-3	(0.975)		PCB-17	(1.37)		PCB-45	(0.869)		PCB-57	(0.949)							
			PCB-27	(1.01)		PCB-51	(0.752)		PCB-58	(0.927)							
<b>Conc.</b>	0		PCB-24	(1.07)		PCB-46	(0.95)		PCB-67	(0.893)							
<b>EMPC</b>	0		PCB-16	(1.8)		PCB-52	3.95	J	PCB-63	(0.858)							
			PCB-32	(0.957)		PCB-73	(0.59)		PCB-61/70/74/76	[2.76]	J EMPC C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(0.943)		PCB-43	(0.902)		PCB-66	1.4	J						
PCB-4	(2.09)		PCB-23	(0.942)		PCB-69/49	1.78	J C	PCB-55	(0.994)							
PCB-10	(1.35)		PCB-26/29	(0.933)	C	PCB-48	(0.767)		PCB-56	(1)							
PCB-9	(0.881)		PCB-25	(0.937)		PCB-44/47/65	2.6	J C	PCB-60	(0.993)							
PCB-7	(0.783)		PCB-31	2.29	J	PCB-59/62/75	(0.558)	C	PCB-80	(0.854)							
PCB-6	(0.838)		PCB-28/20	[2.34]	J EMPC C	PCB-42	(0.837)		PCB-79	(0.847)							
PCB-5	(0.831)		PCB-21/33	1.53	J C	PCB-41	(0.953)		PCB-78	(1.05)							
PCB-8	1.64	J	PCB-22	(1)		PCB-71/40	(0.748)	C	PCB-81	(1.04)							
PCB-14	(0.699)		PCB-36	(0.912)		PCB-64	(0.528)		PCB-77	(0.969)							
PCB-11	7.71	J B	PCB-39	(0.886)													
PCB-13/12	(0.813)	C	PCB-38	(0.99)													
PCB-15	(0.874)		PCB-35	(1.04)													
			PCB-37	(1.12)													
<b>Conc.</b>	9.36		<b>Conc.</b>	6.48					<b>Conc.</b>	9.73							
<b>EMPC</b>	9.36		<b>EMPC</b>	8.82					<b>EMPC</b>	12.5							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						15.8			18.2		
						Tetra-Hexa						37.9			44.4		
						Hepta-Deca						1.57			1.57		
						Mono-Deca						55.4			64.1		

Sample ID: Method Blank A6506						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.473)		PCB-108/119/86/97/125/87	[2.7]	J EMPC C	PCB-155	(0.34)		PCB-165	(0.496)	
PCB-96	(0.567)		PCB-117	(0.626)		PCB-152	(0.388)		PCB-146	(0.57)	
PCB-103	(0.695)		PCB-116/85	0.686	J C	PCB-150	(0.382)		PCB-161	(0.458)	
PCB-94	(0.828)		PCB-110	3.95	J	PCB-136	0.87	J	PCB-153/168	2.53	J C
PCB-95	3.4	J	PCB-115	(0.574)		PCB-145	(0.408)		PCB-141	(0.627)	
PCB-100/93	(0.752)	C	PCB-82	(0.95)		PCB-148	(0.577)		PCB-130	(0.706)	
PCB-102	(0.631)		PCB-111	(0.546)		PCB-151/135	(0.609)	C	PCB-137	(0.571)	
PCB-98	(0.905)		PCB-120	(0.538)		PCB-154	(0.52)		PCB-164	(0.47)	
PCB-88	(0.831)		PCB-107/124	(0.6)	C	PCB-144	(0.588)		PCB-163/138/129	3.12	J C
PCB-91	(0.719)		PCB-109	(0.53)		PCB-147/149	3.22	J C	PCB-160	(0.498)	
PCB-84	[0.983]	J EMPC	PCB-123	(0.543)		PCB-134	(0.824)		PCB-158	(0.434)	
PCB-89	(0.861)		PCB-106	(0.611)		PCB-143	(0.588)		PCB-128/166	(0.798)	C
PCB-121	(0.54)		PCB-118	2.29	J	PCB-139/140	(0.584)	C	PCB-159	(0.665)	
PCB-92	(0.797)		PCB-122	(0.65)		PCB-131	(0.69)		PCB-162	(0.67)	
PCB-113/90/101	3.6	J C	PCB-114	(0.542)		PCB-142	(0.701)		PCB-167	(0.614)	
PCB-83	(0.921)		PCB-105	1.06	J	PCB-132	1.79	J	PCB-156/157	(0.929)	C
PCB-99	1.71	J	PCB-127	(0.615)		PCB-133	(0.621)		PCB-169	(0.71)	
PCB-112	(0.562)		PCB-126	(0.763)							
			<b>Conc.</b>	16.7					<b>Conc.</b>	11.5	
			<b>EMPC</b>	20.4					<b>EMPC</b>	11.5	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.405)		PCB-174	(0.948)		PCB-202	(0.626)		PCB-208	(1.65)	
PCB-179	(0.476)		PCB-177	(0.984)		PCB-201	(0.581)		PCB-207	(1.63)	
PCB-184	(0.501)		PCB-181	(0.871)		PCB-204	(0.625)		PCB-206	(2.67)	
PCB-176	(0.451)		PCB-171/173	(0.984)	C	PCB-197	(0.583)				
PCB-186	(0.482)		PCB-172	(0.959)		PCB-200	(0.614)		<b>Conc.</b>	0	
PCB-178	(0.678)		PCB-192	(0.738)		PCB-198/199	(0.915)	C	<b>EMPC</b>	0	
PCB-175	(0.862)		PCB-180/193	1.57	J C	PCB-196	(0.862)				
PCB-187	(0.81)		PCB-191	(0.689)		PCB-203	(0.854)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.782)		PCB-170	(0.941)		PCB-195	(0.972)		PCB-209	(0.863)	
PCB-183	(0.762)		PCB-190	(0.687)		PCB-194	(0.908)				
PCB-185	(0.901)		PCB-189	(0.784)		PCB-205	(0.73)				
			<b>Conc.</b>	1.57		<b>Conc.</b>	0				
			<b>EMPC</b>	1.57		<b>EMPC</b>	0				

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140327X02 Analysis Date: 27-MAR-2014 11:32:47  
 Lab ID: OPR1\_11899\_PCB

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	115	50 - 150	Y
PCB-3 4-MoCB	50	114	50 - 150	Y
PCB-4 22'-DiCB	50	94.1	50 - 150	Y
PCB-15 44'-DiCB	50	108	50 - 150	Y
PCB-19 22'6'-TrCB	50	95.1	50 - 150	Y
PCB-37 344'-TrCB	50	111	50 - 150	Y
PCB-54 22'66'-TeCB	50	95.8	50 - 150	Y
PCB-77 33'44'-TeCB	50	98.5	50 - 150	Y
PCB-81 344'5'-TeCB	50	101	50 - 150	Y
PCB-104 22'466'-PeCB	50	96.1	50 - 150	Y
PCB-105 233'44'-PeCB	50	93.8	50 - 150	Y
PCB-114 2344'5'-PeCB	50	97.1	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	95.4	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	95.3	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	107	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	92.1	50 - 150	Y
PCB-156/157 ...-HxCB	100	97	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	97	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	97	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	92.3	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	104	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	94.9	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	98.1	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	97.8	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	98.8	50 - 150	Y
PCB-209 DeCB	50	96.2	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 30 Mar 2014 14:24 Analyst: LB

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140327X02 Analysis Date: 27-MAR-2014 11:32:47  
 Lab ID: OPR1\_11899\_PCB

LABELED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	74.5	15	-	140	Y
ES PCB-3	100	78.6	15	-	140	Y
ES PCB-4	100	91.7	30	-	140	Y
ES PCB-15	100	95.2	30	-	140	Y
ES PCB-19	100	90.7	30	-	140	Y
ES PCB-37	100	84.2	30	-	140	Y
ES PCB-54	100	91.5	30	-	140	Y
ES PCB-77	100	94.4	30	-	140	Y
ES PCB-81	100	92.9	30	-	140	Y
ES PCB-104	100	98.5	30	-	140	Y
ES PCB-105	100	93.3	30	-	140	Y
ES PCB-114	100	91.1	30	-	140	Y
ES PCB-118	100	95.2	30	-	140	Y
ES PCB-123	100	92.6	30	-	140	Y
ES PCB-126	100	94.7	30	-	140	Y
ES PCB-153	100	92.7	30	-	140	Y
ES PCB-155	100	92.6	30	-	140	Y
ES PCB-156/157	200	77.5	30	-	140	Y
ES PCB-167	100	78.3	30	-	140	Y
ES PCB-169	100	75.8	30	-	140	Y
ES PCB-170	100	90.1	30	-	140	Y
ES PCB-180	100	90.7	30	-	140	Y
ES PCB-188	100	109	30	-	140	Y
ES PCB-189	100	96.9	30	-	140	Y
ES PCB-202	100	101	30	-	140	Y
ES PCB-205	100	88	30	-	140	Y
ES PCB-206	100	91.5	30	-	140	Y
ES PCB-208	100	102	30	-	140	Y
ES PCB-209	100	86.4	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	86.7	40	-	125	Y
CS PCB-111	100	101	40	-	125	Y
CS PCB-178	100	119	40	-	125	Y

Processed: 30 Mar 2014 14:24 Analyst: LB



2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 15-Mar-14 at 10:30  
**AP Project name:** A6506  
**Requested TAT:** 21 days  
**Projected due date:** 7-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Partick Bayou Superfund Site  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchoragea.com](mailto:dpeterson@anchoragea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB070_B-2SWMID-140314-N (TOTAL)	A6506_001	WS	2	1.25 L Amber	14-Mar-14	09:10	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB070_B-1SWMID-140314-N (TOTAL)	A6506_002	WS	2	1.25 L Amber	14-Mar-14	13:15	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB079-1SWMID-140314-N (TOTAL)	A6506_003	WS	2	1.25 L Amber	14-Mar-14	14:00	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB081_A-1SWMID-140314-N (TOTAL)	A6506_004	WS	2	1.25 L Amber	14-Mar-14	15:05	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB081_A-1SWMID-140314-N (DISSOLVED)	A6506_005	WS	2	1.25 L Amber	14-Mar-14	15:05	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB089-1SWMID-140314-N (TOTAL)	A6506_006	WS	2	1.25 L Amber	14-Mar-14	17:25	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB085-1SWMID-140314-N (TOTAL)	A6506_007	WS	2	1.25 L Amber	14-Mar-14	16:54	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB097_A-1SWMID-140314-N (TOTAL)	A6506_008	WS	2	1.25 L Amber	14-Mar-14	17:54	1.4	1, 2, 3	798228909281, 798228909270, 875887997273
PB097_A-1SWMID-140314-N (DISSOLVED)	A6506_009	WS	2	1.25 L Amber	14-Mar-14	17:54	1.4	1, 2, 3	798228909281, 798228909270, 875887997273

**Preservation Type:** Ice - Good Condition+Ice - **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6506

### PROJECT INFO:

PROJECT: *Patrick Bayou Superfund Site*

PO. #:

QUOTE #:

SITE REF: *040284-01.08*

TURN AROUND TIME: *Standard*

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

### SEND DOCUMENTATION / RESULTS TO:

COMPANY: *Anchor OEA*

CONTACT: *Delaney Detuson*

ADDRESS: *720 Olive Way, Ste 300*

PHONE: *Seattle WA 98101*

EMAIL: *206-267-9130*  
*dpetuson@anchoroea.com*

INVOICE TO:  CHECK IF SAME

COMPANY: *PNL* CONTACT: *Bob*

ADDRESS: *Piniewski*

PHONE: *919-435-0934*

EMAIL: *bob@projectnavigator.com*

### SPECIAL INSTRUCTIONS / COMMENTS:

SPECIAL DELIVERABLES:  State of Origin:  EDD:  Other:

PRESERVATIVE					ANALYSIS & METHOD	REMARKS
none	HCl	none	none	none		
					<i>Filter upon receipt</i> <i>** Filter and preserve upon receipt</i>	

RECEIVED BY LABORATORY:	DATE:	TIME:
<i>[Signature]</i>	<i>3-15-14</i>	<i>1030</i>

COG SEAL:	SAMPLE RECEIPT TEMP: °C	CARRIER:	TRACKING #:
<input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	<i>1.4</i>	<i>Fedex</i>	

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	Pb/Blay Tot	TOC	TSS	Pb/Cov. Dis	DOC **
				MS	MSD	DUP								
	<i>PB070-B-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>0910</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>		
	<i>PB070-B-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>1315</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>		
	<i>PB079-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>1400</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>		
	<i>PB081-A-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>1655</i>				<i>G</i>	<i>WS</i>	<i>9</i>	<i>11</i>	<i>11</i>	<i>1</i>	<i>11</i>	<i>11</i>
	<del><i>PB101-1SWMID-140314-N</i></del>	<del><i>3/14/14</i></del>	<del></del>				<del><i>G</i></del>	<del><i>WS</i></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>
	<i>PB089-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>1725</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>		
	<i>PB085-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>1654</i>				<i>G</i>	<i>W</i>	<i>5</i>	<i>11</i>	<i>11</i>	<i>1</i>		
	<i>PB097A-1SWMID-140314-N</i>	<i>3/14/14</i>	<i>1754</i>				<i>G</i>	<i>W</i>	<i>9</i>	<i>11</i>	<i>11</i>	<i>1</i>	<i>11</i>	<i>11</i>

COLLECTED/RELINQUISHED BY (1):	DATE:	TIME:	RECEIVED BY:
<i>[Signature]</i> <i>Jasun Kase</i>	<i>3/14/14</i>	<i>1918</i>	<i>FedEx</i>

RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:

**SGS**

## Project Initiation Form

Project Number: A6506Initiation Date: 17-Mar-14Client Name: ANCHOR QEASample Matrix: AqueousAnalysis Method: 1668ATAT: 21 daysProject Manager: Amy

### Special Instructions

1668A w/ OPR  
Dissolved samples need to be filtered before extraction

### Reporting Instructions

1668A w/ OPR  
Anchor Equis EDD

PM Initials: akornega Date: 17-Mar-2014

TRANSFER: AW 3/21/14

RECEIVED: AW 3/21/14

SGS ANALYTICAL PERSPECTIVES		1668A		Water							
Project #	A6506	Batch #	11899	Extract Init/Date:	MC 3/19/14	ASECS Init/Date:	3/21/14	Transfer Init/Date:	AW 3/21/14		
AP Sample ID	Client Sample ID	Volume (ml.)	Talex #	SDS #	RV		(Td)	Clean-up	Observations		
					#	Initials					
A6506_11899_001	PB070_B-2SWMID-140314-N (TOTAL)	915	3	-	2	YB	-	AW	yellowish, slightly cloudy		
A6506_11899_002	PB070_B-1SWMID-140314-N (TOTAL)	944	4	-	1	TB	-	AW	yellowish, slightly cloudy, pm		
A6506_11899_003	PB079-1SWMID-140314-N (TOTAL)	961	5	-	2	YB	-	AW	see 001		
A6506_11899_004	PB081_A-1SWMID-140314-N (TOTAL)	955	6	-	1	TB	-	AW	see 001		
A6506_11899_005	PB081_A-1SWMID-140314-N (DISSOLVED)	930	7	-	2	YB	-	AW	yellowish		
A6506_11899_006	PB089-1SWMID-140314-N (TOTAL)	960	8	-	1	YB	-	AW	see 002		
A6506_11899_007	PB085-1SWMID-140314-N (TOTAL)	965	9	-	2	TB	-	AW	see 001		
A6506_11899_008	PB097_A-1SWMID-140314-N (TOTAL)	962	10	-	2	TB	-	AW	see 002		
A6506_11899_009	PB097_A-1SWMID-140314-N (DISSOLVED)	958	11	-	1	TB	-	AW	see 005		
MB1_11899	Method Blank	1000	1	-	2	YB	-	AW	Talex DI H <sub>2</sub> O 02272014		
OPR1_11899	0_11899_OPR001	1000	2	-	1	TB	-	AW	Talex DI H <sub>2</sub> O 02272014		
					3/20/14			3/21/14			
Special Instructions:					Cycle Time			Supply IDs			
1668A w/ OPR Dissolved samples need to be filtered before extraction					Start: 10:17 am			Toluene	—	Acid Silica	03142014
					Stop: 12:55 pm			CH <sub>2</sub> Cl <sub>2</sub>	—	Base Silica	—
								Sand	—	HydroMatrix	—
								Florasil	—	Tetradecane	—
					Start:			Hexane	DJLase	Na2SO4 H <sub>2</sub> SO <sub>4</sub>	02272014
					Stop:			Silica	—	K Silicate	—

\* Sample on hold



1668A

Aqueous

Project # A6506 Batch # 11899

**Inter-Department Communication Sheet**

Filtered Samples 005 and 009 with 0.7µm filter prior to extraction  
-MK 4/1/14

eeAd 31MARI4

**Special Instructions**

1668A w/ OPR  
Dissolved samples need to be filtered before extraction



SGS ANALYTICAL PERSPECTIVES		1668A		Water			
Project # A6506		Batch # 11899					
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
		Spiker Initials/Date: <i>M 3/19/14</i> <i>M 3/19/14</i> <i>JK 3/20/14</i> <i>MAL 3-21-14</i>					
AP Sample ID	Client Sample ID	PCB ES	PCB AX 209	PCB CS	PCB JS		
		Amount: <i>20µL</i>	Amount: <i>20µL</i>	Amount: <i>20µL</i>	Amount: <i>10µL</i>	Amount:	
		Observer Initials	Observer Initials	Observer Initials	Observer Initials	Observer Initials	
A6506_11899_001	PB070_B-2SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_002	PB070_B-1SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_003	PB079-1SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_004	PB081_A-1SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_005	PB081_A-1SWMID-140314-N (DISSOLVED)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_006	PB089-1SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_007	PB085-1SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_008	PB097_A-1SWMID-140314-N (TOTAL)	<i>MK</i>	-	<i>a</i>	<i>a</i>		
A6506_11899_009	PB097_A-1SWMID-140314-N (DISSOLVED)	<i>MK</i>	-	<i>* 1</i>	<i>* 1</i>		
MB1_11899	Method Blank	<i>MK</i>	-	<i>a</i>	<i>a</i>		
OPR1_11899	0_11899_OPR001	<i>MK</i>	<i>MK</i>	<i>a</i>	<i>a</i>		
		<i>3/19/14</i>	<i>3/19/14</i>	<i>3/20/14</i>	<i>3/21/14</i>		
Standard Information							
Std. Type		PCB ES	AX 209		PCB CS/SS	PCB JS	
Spike ID		<i>10292013B</i>	<i>10292013</i>		<i>10292013B</i>	<i>10292013A</i>	
SIL #		<i>13-96-1</i>	<i>13-78-1</i>		<i>* 43-62-13-96-2</i>	<i>13-78-3</i>	
Concentration		100	50		100	200	
Units		pg/µL	pg/µL		pg/µL	pg/µL	
Exp. Date		<i>12/19/14</i>	<i>10/29/14</i>		<i>12-19-14</i>	<i>10-29-14</i>	
Spike amount (µL)		20	20		20	10	

*\* Sample on hold*  
*\* EG on 3/21/14*







## SGS Analytical Perspectives — Run Log

Project: A6506\_11899\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	140327X01	Tray1:03	CS3_140327_PCB_XA	1.00	SIL 13-79-3	LKB	702-497	27-Mar-2014	10:37:58
2	140327X02	Tray1:47	OPR1_11899_PCB	1.00	0_11899_OPR001	LKB	756-952	27-Mar-2014	11:32:47
3	140327X03	Tray1:02	SBS_140327_PCB_XA	1.00	SIL 13-42-1	LKB	169-929	27-Mar-2014	12:27:58
4	140327X04	Tray1:48	MB1_11899_PCB_TLX	1.00	Method Blank	LKB	733-035	27-Mar-2014	13:23:08
5	140327X05	Tray1:49	A6506_11899_PCB_001	0.92	PB070_B-2SWMID-140314-N (TOTAL)	LKB	561-113	27-Mar-2014	14:18:19
6	140327X06	Tray1:50	A6506_11899_PCB_002	0.94	PB070_B-1SWMID-140314-N (TOTAL)	LKB	505-842	27-Mar-2014	15:13:30
7	140327X07	Tray1:51	A6506_11899_PCB_003	0.96	PB079-1SWMID-140314-N (TOTAL)	LKB	109-950	27-Mar-2014	16:08:42
8	140327X08	Tray1:52	A6506_11899_PCB_004	0.96	PB081_A-1SWMID-140314-N (TOTAL)	LKB	761-905	27-Mar-2014	17:03:52
9	140327X09	Tray1:53	A6506_11899_PCB_005	0.93	PB081_A-1SWMID-140314-N (DISSOLVED)	LKB	223-376	27-Mar-2014	17:59:02
10	140327X10	Tray1:54	A6506_11899_PCB_006	0.96	PB089-1SWMID-140314-N (TOTAL)	LKB	431-600	27-Mar-2014	18:54:13
11	140327X11	Tray1:55	A6506_11899_PCB_007	0.97	PB085-1SWMID-140314-N (TOTAL)	LKB	507-769	27-Mar-2014	19:49:23
12	140327X12	Tray1:56	A6506_11899_PCB_008	0.96	PB097_A-1SWMID-140314-N (TOTAL)	LKB	581-063	27-Mar-2014	20:44:35

Lab ID: MB1\_11899\_PCB\_TLX

ACQ: 27-Mar-2014 13:23:08 LKB

Wt/Vol: 1.00 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA

Client ID: Method Blank A6506

UTP: 30-Mar-2014 14:25 LKB

J-level: 10 pg/L Split: 1

Checkcode: 733-035-NQY

Datafile: 140327X04

RPT: 30-Mar-2014 14:28 LB

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	3.66E+03	0.969
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.66E+03	1.04
PCB-105 233'44'-PeCB	35.78	J	1.0006	1.0008	+0.4	3.34E+04	0.58	1.11	1.06	1.83E+03	0.6
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.20	ND	1.83E+03	0.542
PCB-118 23'44'5'-PeCB	34.77	J	1.0006	1.0007	+0.2	7.55E+04	0.69	1.19	2.29	1.83E+03	0.567
PCB-123 23'44'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.21	ND	1.83E+03	0.543
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.05E+03	0.763
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.77E+03	0.929
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.77E+03	0.614
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.77E+03	0.71
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.78E+03	0.784
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.19E+03	0.863
ES PCB-1	11.88		0.7245	0.7245	0	6.98E+07	3.24	1.19	59.7 %	15%	150%
ES PCB-3	14.17		0.8640	0.8641	+0.1	7.46E+07	3.28	1.09	70.1 %	15%	150%
ES PCB-4	14.42		0.8795	0.8794	-0.1	4.15E+07	1.59	0.52	81 %	25%	150%
ES PCB-15	20.13		1.2271	1.2276	+0.6	9.29E+07	1.57	1.04	91.1 %	25%	150%
ES PCB-19	17.50		1.0673	1.0673	0	4.25E+07	1.05	0.51	85.8 %	25%	150%
ES PCB-37	26.45		1.0787	1.0790	+0.5	7.36E+07	1.11	1.66	83.1 %	25%	150%
ES PCB-54	20.41		0.8328	0.8326	-0.2	4.14E+07	0.76	0.86	90.3 %	25%	150%
ES PCB-77	32.78		1.3364	1.3371	+1.4	6.67E+07	0.80	1.38	90.4 %	25%	150%
ES PCB-81	32.30		1.3170	1.3176	+1.2	6.55E+07	0.78	1.37	90 %	25%	150%
ES PCB-104	25.38		0.8325	0.8322	-0.5	4.02E+07	1.56	0.80	97.6 %	25%	150%
ES PCB-105	35.76		1.1720	1.1724	+0.9	5.67E+07	1.62	1.20	92.2 %	25%	150%
ES PCB-114	35.21		1.1543	1.1546	+0.6	5.60E+07	1.60	1.22	89.8 %	25%	150%
ES PCB-118	34.75		1.1391	1.1394	+0.6	5.56E+07	1.58	1.16	93.6 %	25%	150%
ES PCB-123	34.47		1.1299	1.1302	+0.6	5.62E+07	1.59	1.19	92.5 %	25%	150%
ES PCB-126	38.37		1.2575	1.2579	+0.9	4.89E+07	1.56	1.03	92.9 %	25%	150%
ES PCB-153	36.33		0.9716	0.9716	0	4.02E+07	1.31	1.11	89.2 %	25%	150%
ES PCB-155	30.33		0.8114	0.8111	-0.5	5.76E+07	1.30	1.59	90.7 %	25%	150%
ES PCB-156/157	40.91		1.0939	1.0941	+0.5	9.58E+07	1.27	1.60	74.9 %	25%	150%
ES PCB-167	39.93		1.0677	1.0678	+0.2	5.12E+07	1.27	1.67	76.7 %	25%	150%
ES PCB-169	43.63		1.1664	1.1666	+0.5	4.50E+07	1.29	1.56	72.4 %	25%	150%
ES PCB-170	43.14		0.9081	0.9080	-0.3	3.01E+07	1.08	0.95	90.3 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	3.59E+07	1.05	1.14	89.3 %	25%	150%
ES PCB-188	35.21		0.7413	0.7410	-0.6	4.03E+07	1.07	0.94	107 %	25%	150%
ES PCB-189	45.75		0.9629	0.9629	0	4.41E+07	1.06	1.58	96.9 %	25%	150%
ES PCB-202	39.74		0.8366	0.8364	-0.5	3.79E+07	0.93	0.97	97.7 %	25%	150%
ES PCB-205	47.91		1.0084	1.0084	0	3.16E+07	0.88	1.24	88.4 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	2.20E+07	0.80	0.83	92.4 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	3.50E+07	0.79	1.17	104 %	25%	150%
ES PCB-209	50.81		1.0694	1.0694	0	2.79E+07	1.18	1.11	87.4 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	8.77E+07	1.09	1.11	107 %	30%	135%
SS PCB-111	32.79		1.0750	1.0751	+0.2	6.45E+07	1.60	1.03	111 %	30%	135%
SS PCB-178	37.77		1.0100	1.0100	0	2.68E+07	1.06	0.62	108 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	8.77E+07	1.09	1.85	89.2 %	30%	135%
CS PCB-111	32.79		1.0750	1.0751	+0.2	6.45E+07	1.60	1.22	103 %	30%	135%
CS PCB-178	37.77		1.0100	1.0100	0	2.68E+07	1.06	0.58	115 %	30%	135%
JS PCB-9	16.39					9.80E+07	1.57				
JS PCB-52	24.51					5.33E+07	0.79				
JS PCB-101	30.50					5.12E+07	1.59				
JS PCB-138	37.40					4.00E+07	1.30				
JS PCB-194	47.51					2.87E+07	0.90				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	0	0	0.949		
						Di-CBs	9.36	9.36	1.48		
						Tri-CBs	6.48	8.82	1.35		
						Tetra-CBs	9.73	12.5	0.85		
						Penta-CBs	16.7	20.4	0.581		
						Hexa-CBs	11.5	11.5	0.648		
						Hepta-CBs	1.57	1.57	0.753		
						Octa-CBs	0	0	0.678		
						Nona-CBs	0	0	2.16		
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00	0.95		ND	4.90E+03	0.923
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00	1.20		ND	4.90E+03	0.822
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00	1.01		ND	4.90E+03	0.975
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00	1.23		ND	7.16E+03	2.09
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00	1.90		ND	7.16E+03	1.35
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00	1.01		ND	4.54E+03	0.881
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00	1.14		ND	4.54E+03	0.783
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00	1.06		ND	4.54E+03	0.838
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00	1.07		ND	4.54E+03	0.831
PCB-8 24'-DiCB	17.23	J	1.0506	1.0511	+0.5	8.39E+04	SI	1.10	1.64	4.54E+03	0.81
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00	1.27		ND	4.54E+03	0.699
PCB-11 33'-DiCB	19.57	J B	0.9721	0.9721	0	3.94E+05	SI	1.10	7.71	4.54E+03	0.81
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9866	-		0.00E+00	1.10		ND	4.54E+03	0.813
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00	1.02		ND	4.54E+03	0.874
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00	1.15		ND	4.63E+03	1.59
PCB-30/18 246/22'5-TrCB	19.28	J C	1.1014	1.1020	+0.7	8.67E+04	1.14	1.54	2.66	4.63E+03	1.19
PCB-17 22'4-TrCB	NotFnd		1.1243	-		0.00E+00	1.32		ND	4.63E+03	1.37
PCB-27 23'6-TrCB	NotFnd		1.1353	-		0.00E+00	1.80		ND	4.63E+03	1.01
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00	1.71		ND	4.63E+03	1.07
PCB-16 22'3-TrCB	NotFnd		1.1484	-		0.00E+00	1.01		ND	4.63E+03	1.8
PCB-32 24'6-TrCB	NotFnd		1.1758	-		0.00E+00	1.90		ND	4.63E+03	0.957

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.28	ND	4.65E+03	0.943
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	4.65E+03	0.942
PCB-26/29 23'5/245-TrCB	NotFnd	C	0.8383	-		0.00E+00		1.29	ND	4.65E+03	0.933
PCB-25 23'4-TrCB	NotFnd		0.8456	-		0.00E+00		1.28	ND	4.65E+03	0.937
PCB-31 24'5-TrCB	22.64	J	0.8562	0.8560	-0.3	1.14E+05	1.19	1.34	2.29	4.65E+03	0.895
PCB-28/20 244'/233'-TrCB	22.91	J EMPC C	0.8670	0.8663	-1.0	1.08E+05	0.80	1.25	2.34	4.65E+03	0.96
PCB-21/33 234/23'4'-TrCB	23.13	J C	0.8738	0.8745	+1.0	7.24E+04	1.04	1.29	1.53	4.65E+03	0.934
PCB-22 234'-TrCB	NotFnd		0.8880	-		0.00E+00		1.20	ND	4.65E+03	1
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	4.65E+03	0.912
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	4.65E+03	0.886
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.21	ND	4.65E+03	0.99
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.16	ND	4.65E+03	1.04
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	4.65E+03	1.12
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	2.28E+03	0.708
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9145	-		0.00E+00		0.92	ND	2.18E+03	0.752
PCB-45 22'36-TeCB	NotFnd		0.9383	-		0.00E+00		0.80	ND	2.18E+03	0.869
PCB-51 22'46'-TeCB	NotFnd		0.9413	-		0.00E+00		0.93	ND	2.18E+03	0.752
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.73	ND	2.18E+03	0.95
PCB-52 22'55'-TeCB	24.54	J	1.0009	1.0010	+0.1	1.16E+05	0.79	0.89	3.95	2.18E+03	0.778
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.18	ND	2.18E+03	0.59
PCB-43 22'35-TeCB	NotFnd		1.0101	-		0.00E+00		0.77	ND	2.18E+03	0.902
PCB-69/49 23'46/22'45'-TeCB	24.98	J C	1.0181	1.0189	+1.2	6.40E+04	0.75	1.10	1.78	2.18E+03	0.633
PCB-48 22'45-TeCB	NotFnd		1.0295	-		0.00E+00		0.91	ND	2.18E+03	0.767
PCB-44/47/65 ...-TeCB	25.43	J C	1.0384	1.0374	-1.5	8.22E+04	0.67	0.96	2.6	2.18E+03	0.721
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0496	-		0.00E+00		1.25	ND	2.18E+03	0.558
PCB-42 22'34'-TeCB	NotFnd		1.0563	-		0.00E+00		0.83	ND	2.18E+03	0.837
PCB-41 22'34-TeCB	NotFnd		1.0698	-		0.00E+00		0.73	ND	2.18E+03	0.953
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0737	-		0.00E+00		0.93	ND	2.18E+03	0.748
PCB-64 234'6-TeCB	NotFnd		1.0819	-		0.00E+00		1.32	ND	2.18E+03	0.528
PCB-72 23'55'-TeCB	NotFnd		0.8436	-		0.00E+00		1.29	ND	3.66E+03	0.905
PCB-68 23'45'-TeCB	NotFnd		0.8515	-		0.00E+00		1.37	ND	3.66E+03	0.854
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.23	ND	3.66E+03	0.949
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.26	ND	3.66E+03	0.927
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.31	ND	3.66E+03	0.893
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.36	ND	3.66E+03	0.858
PCB-61/70/74/76 ...-TeCB	28.75	J EMPC C	0.8902	0.8903	+0.2	1.13E+05	0.90	1.24	2.76	3.66E+03	0.939
PCB-66 23'44'-TeCB	29.02	J	0.8989	0.8985	-0.7	5.36E+04	0.89	1.17	1.4	3.66E+03	1
PCB-55 233'4-TeCB	NotFnd		0.9034	-		0.00E+00		1.17	ND	3.66E+03	0.994
PCB-56 233'4'-TeCB	NotFnd		0.9169	-		0.00E+00		1.16	ND	3.66E+03	1
PCB-60 2344'-TeCB	NotFnd		0.9229	-		0.00E+00		1.18	ND	3.66E+03	0.993
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	3.66E+03	0.854
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.38	ND	3.66E+03	0.847
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	3.66E+03	1.05
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.41E+03	0.473
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.20	ND	1.41E+03	0.567
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	1.83E+03	0.695
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.79	ND	1.83E+03	0.828
PCB-95 22'35'6-PeCB	27.99	J	0.9176	0.9176	0	8.25E+04	0.54	0.86	3.4	1.83E+03	0.761

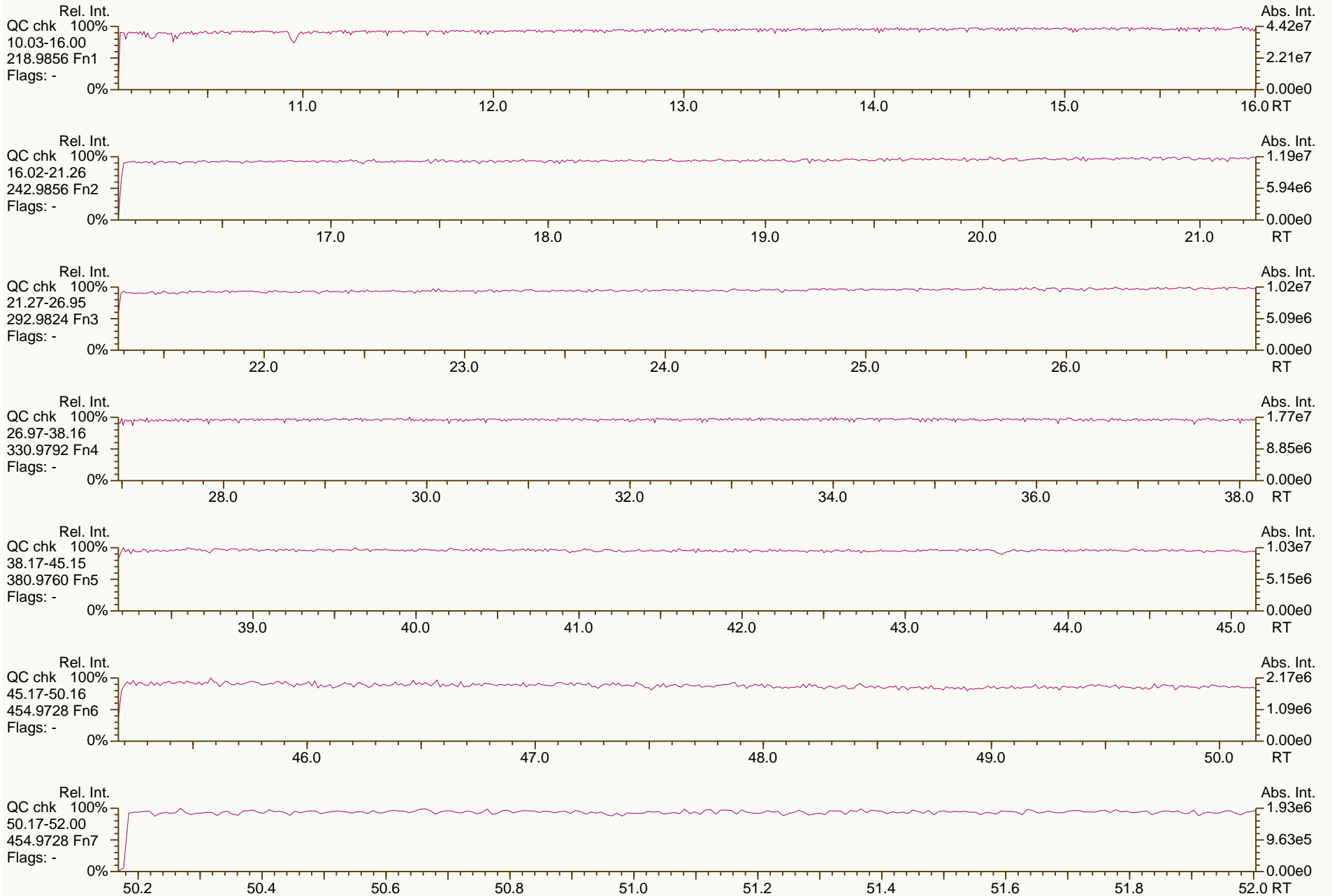
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	1.83E+03	0.752
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		1.04	ND	1.83E+03	0.631
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.73	ND	1.83E+03	0.905
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	1.83E+03	0.831
PCB-91 22'34'6-PeCB	NotFnd		0.9424	-		0.00E+00		0.91	ND	1.83E+03	0.719
PCB-84 22'33'6-PeCB	28.94	J EMPC	0.9487	0.9488	+0.2	2.00E+04	1.02	0.72	0.983	1.83E+03	0.91
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.76	ND	1.83E+03	0.861
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	1.83E+03	0.54
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.83	ND	1.83E+03	0.797
PCB-113/90/101 ...-PeCB	30.52	J C	0.9999	1.0006	+1.3	9.93E+04	0.63	0.98	3.6	1.83E+03	0.67
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.71	ND	1.83E+03	0.921
PCB-99 22'44'5-PeCB	31.03	J	1.0173	1.0173	0	4.36E+04	0.55	0.91	1.71	1.83E+03	0.725
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	1.83E+03	0.562
PCB-108/119/86/97/125...-PeCB	31.50	J EMPC C	1.0320	1.0330	+1.9	7.55E+04	0.74	1.00	2.7	1.83E+03	0.66
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.05	ND	1.83E+03	0.626
PCB-116/85 23456/22'344'-PeCB	32.08	J C	1.0525	1.0519	-1.2	1.90E+04	0.63	0.98	0.686	1.83E+03	0.669
PCB-110 233'4'6-PeCB	32.22	J	1.0561	1.0564	+0.6	1.24E+05	0.64	1.12	3.95	1.83E+03	0.59
PCB-115 2344'6-PeCB	NotFnd		1.0590	-		0.00E+00		1.15	ND	1.83E+03	0.574
PCB-82 22'33'4-PeCB	NotFnd		1.0655	-		0.00E+00		0.69	ND	1.83E+03	0.95
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	1.83E+03	0.546
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	1.83E+03	0.538
PCB-107/124 ...-PeCB	NotFnd	C	0.9916	-		0.00E+00		1.10	ND	1.83E+03	0.6
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.24	ND	1.83E+03	0.53
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		1.08	ND	1.83E+03	0.611
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.00	ND	1.83E+03	0.65
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	1.83E+03	0.615
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.27E+03	0.34
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.11	ND	1.27E+03	0.388
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.27E+03	0.382
PCB-136 22'33'66'-HxCB	30.96	J	1.0207	1.0207	0	2.57E+04	1.12	1.03	0.87	1.27E+03	0.418
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.27E+03	0.408
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.27E+03	0.577
PCB-151/135 ...-HxCB	NotFnd	C	1.0886	-		0.00E+00		1.06	ND	1.27E+03	0.609
PCB-154 22'44'56'-HxCB	NotFnd		1.0954	-		0.00E+00		1.25	ND	1.27E+03	0.52
PCB-144 22'345'6-HxCB	NotFnd		1.1041	-		0.00E+00		1.10	ND	1.27E+03	0.588
PCB-147/149 ...-HxCB	33.79	J C	1.1141	1.1142	+0.2	7.15E+04	1.23	1.11	3.22	1.27E+03	0.587
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.79	ND	1.27E+03	0.824
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.10	ND	1.27E+03	0.588
PCB-139/140 ...-HxCB	NotFnd	C	1.1312	-		0.00E+00		1.11	ND	1.27E+03	0.584
PCB-131 22'33'46-HxCB	NotFnd		1.1369	-		0.00E+00		0.94	ND	1.27E+03	0.69
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.27E+03	0.701
PCB-132 22'33'46'-HxCB	34.88	J	1.1494	1.1499	+1.0	3.50E+04	1.18	0.97	1.79	1.27E+03	0.669
PCB-133 22'33'55'-HxCB	NotFnd		1.1626	-		0.00E+00		1.04	ND	1.27E+03	0.621
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.27E+03	0.496
PCB-146 22'34'55'-HxCB	NotFnd		0.9582	-		0.00E+00		1.14	ND	1.27E+03	0.57
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.27E+03	0.458
PCB-153/168 ...-HxCB	36.35	J C	0.9728	0.9720	-1.7	7.06E+04	1.27	1.39	2.53	1.27E+03	0.467
PCB-141 22'3455'-HxCB	NotFnd		0.9766	-		0.00E+00		1.03	ND	1.27E+03	0.627

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.92	ND	1.27E+03	0.706
PCB-137 22'344'5'-HxCB	NotFnd		0.9911	-		0.00E+00		1.14	ND	1.27E+03	0.571
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9933	-		0.00E+00		1.38	ND	1.27E+03	0.47
PCB-163/138/129 ...-HxCB	37.42	J C	1.0011	1.0006	-1.1	6.97E+04	1.41	1.11	3.12	1.27E+03	0.584
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.27E+03	0.498
PCB-158 233'44'6'-HxCB	NotFnd		1.0096	-		0.00E+00		1.50	ND	1.27E+03	0.434
PCB-128/166 ...-HxCB	NotFnd	C	0.9641	-		0.00E+00		0.89	ND	1.77E+03	0.798
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.07	ND	1.77E+03	0.665
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.77E+03	0.67
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	9.99E+02	0.405
PCB-179 22'33'566'-HpCB	NotFnd		1.0086	-		0.00E+00		1.08	ND	9.99E+02	0.476
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	9.99E+02	0.501
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.14	ND	9.99E+02	0.451
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	9.99E+02	0.482
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0733	-		0.00E+00		0.76	ND	9.99E+02	0.678
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.08	ND	1.57E+03	0.862
PCB-187 22'34'55'6'-HpCB	NotFnd		1.0952	-		0.00E+00		1.15	ND	1.57E+03	0.81
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.57E+03	0.782
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1101	-		0.00E+00		1.22	ND	1.57E+03	0.762
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.03	ND	1.57E+03	0.901
PCB-174 22'33'456'-HpCB	NotFnd		1.1156	-		0.00E+00		0.98	ND	1.57E+03	0.948
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1262	-		0.00E+00		0.95	ND	1.57E+03	0.984
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.57E+03	0.871
PCB-171/173 ...-HpCB	NotFnd	C	1.1413	-		0.00E+00		0.95	ND	1.57E+03	0.984
PCB-172 22'33'455'-HpCB	NotFnd		0.9080	-		0.00E+00		0.97	ND	1.57E+03	0.959
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.57E+03	0.738
PCB-180/193 ...-HpCB	42.09	J C	0.9194	0.9199	+1.3	3.51E+04	0.99	1.24	1.57	1.57E+03	0.75
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.57E+03	0.689
PCB-170 22'33'44'5'-HpCB	NotFnd		0.9434	-		0.00E+00		1.14	ND	1.57E+03	0.941
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.56	ND	1.57E+03	0.687
PCB-202 22'33'55'66'-OoCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.20E+03	0.626
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.13	ND	1.20E+03	0.581
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.20E+03	0.625
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.13	ND	1.20E+03	0.583
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.07	ND	1.20E+03	0.614
PCB-198/199 ...-OoCB	NotFnd	C	1.1001	-		0.00E+00		0.72	ND	1.20E+03	0.915
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1146	-		0.00E+00		0.76	ND	1.20E+03	0.862
PCB-203 22'344'55'6'-OoCB	NotFnd		1.1188	-		0.00E+00		0.77	ND	1.20E+03	0.854
PCB-195 22'33'44'56-OoCB	NotFnd		0.9516	-		0.00E+00		0.80	ND	1.16E+03	0.972
PCB-194 22'33'44'55'-OoCB	NotFnd		0.9921	-		0.00E+00		0.85	ND	1.16E+03	0.908
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.16E+03	0.73
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.07E+03	1.65
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.13	ND	3.07E+03	1.63
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.07E+03	2.67

SGS-AP ID: MB1\_11899\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 48

Acq: 27-Mar-2014 13:23:08  
 User: LKB Datafile: 140327X04

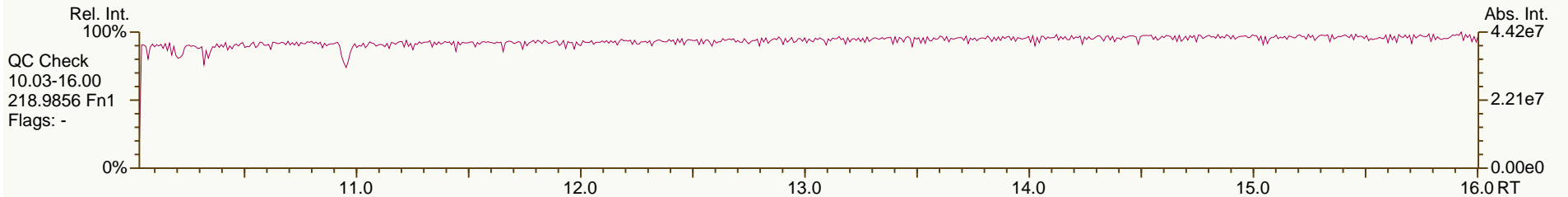
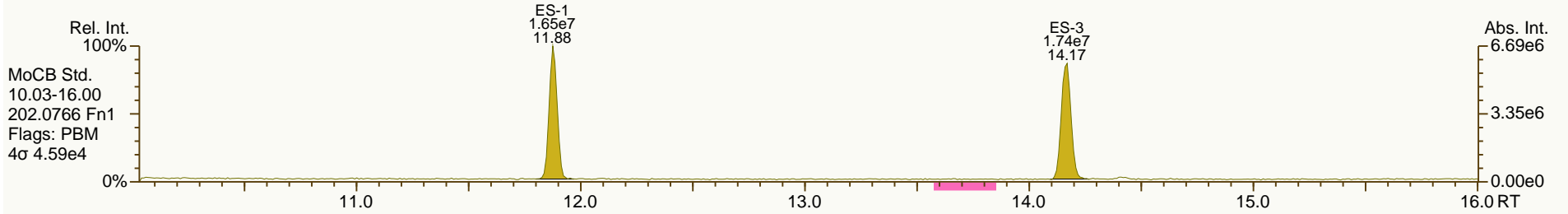
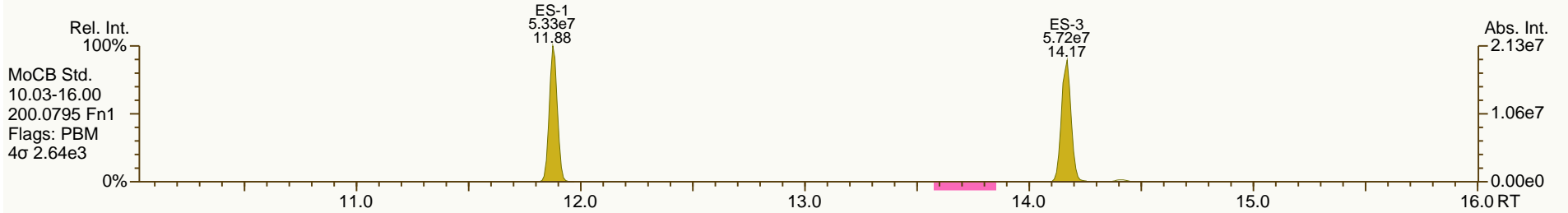
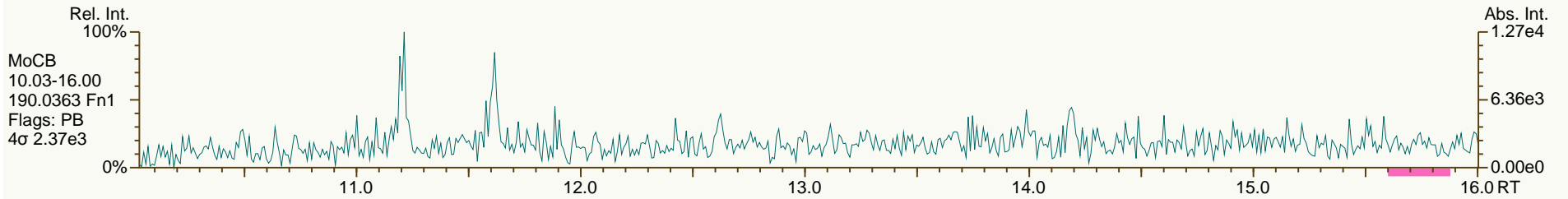
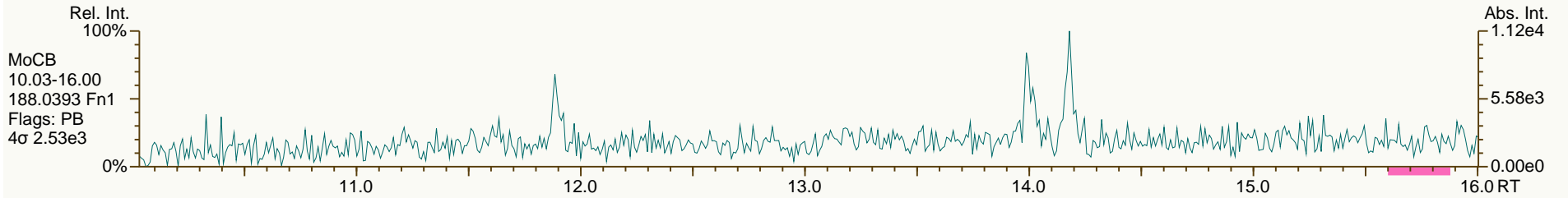




SGS-AP ID: MB1\_11899\_PCB\_TLX  
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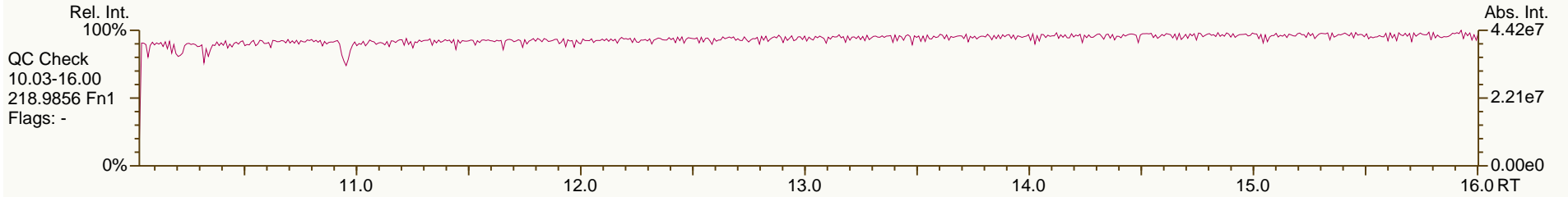
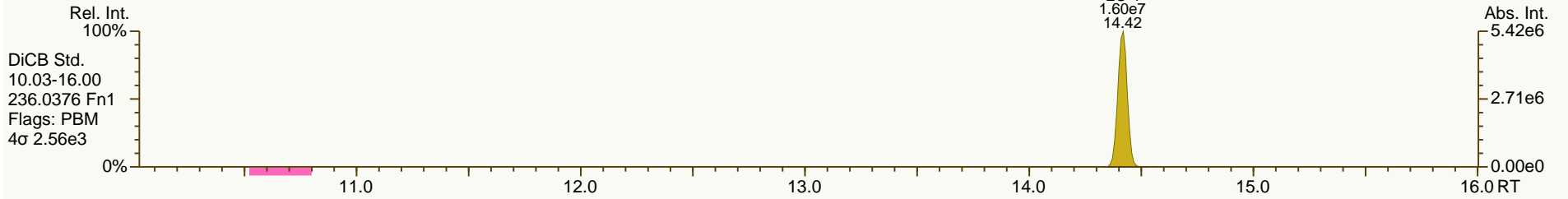
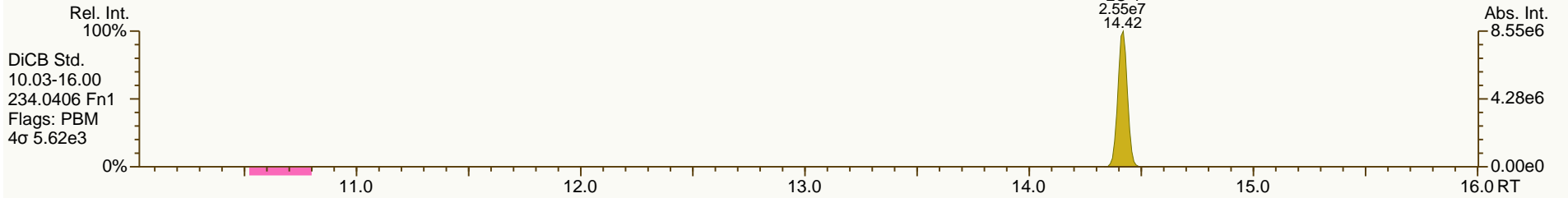
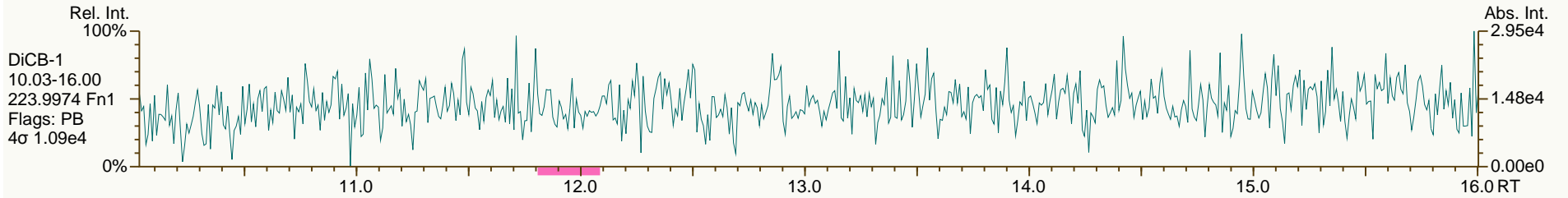
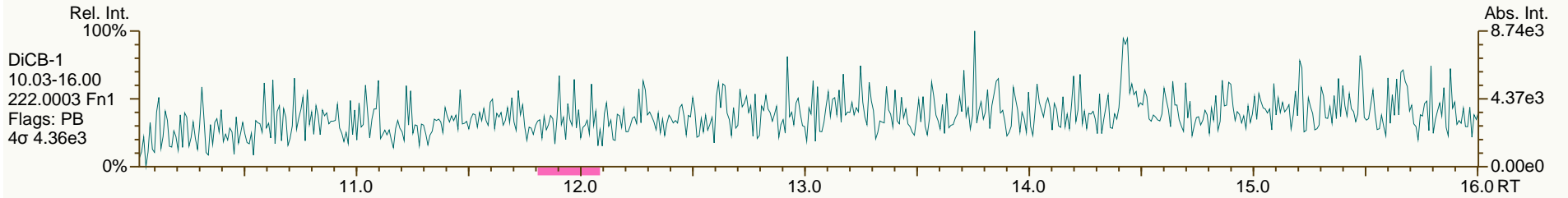
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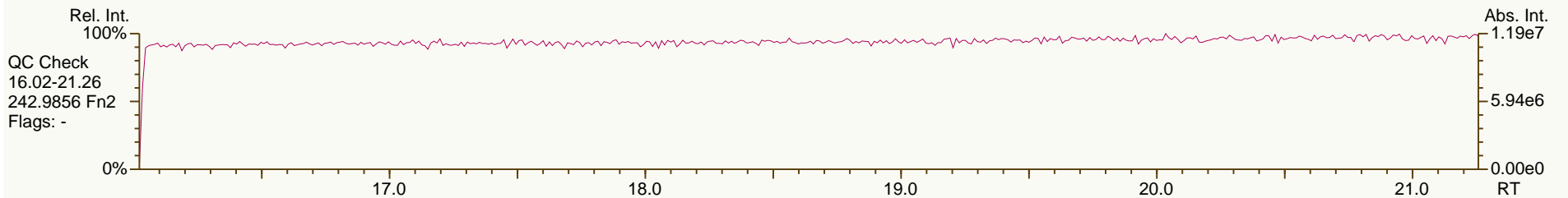
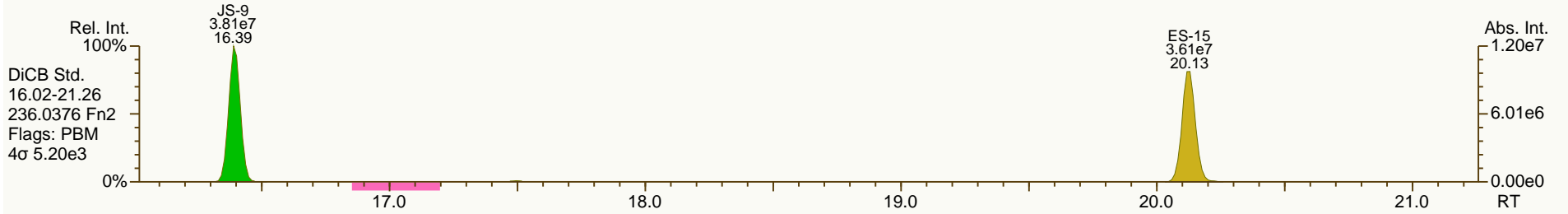
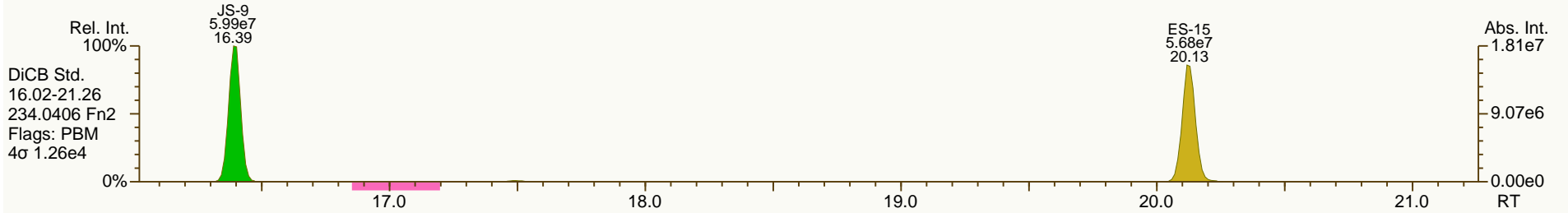
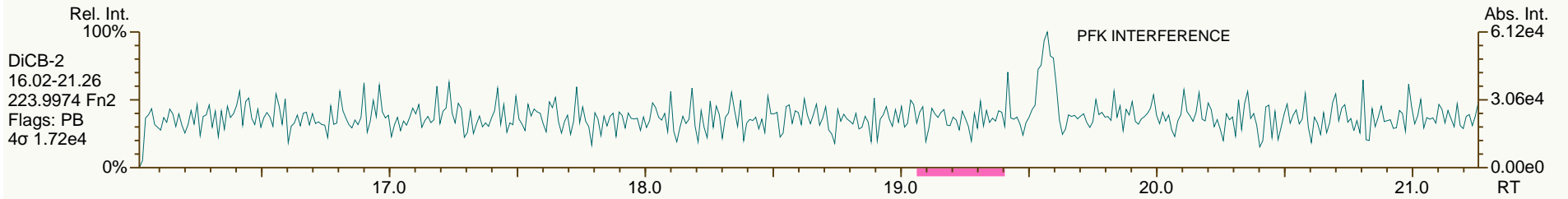
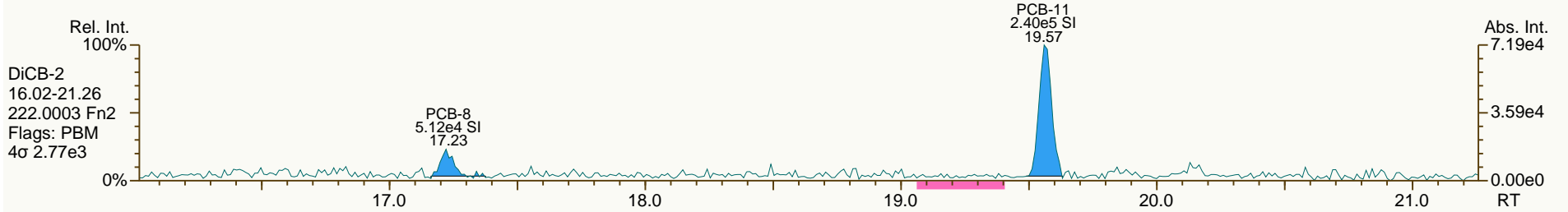
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SGS-AP ID: MB1\_11899\_PCB\_TLX  
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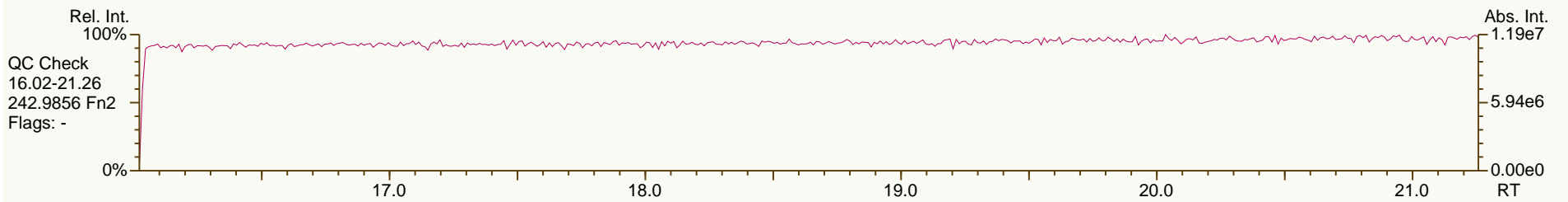
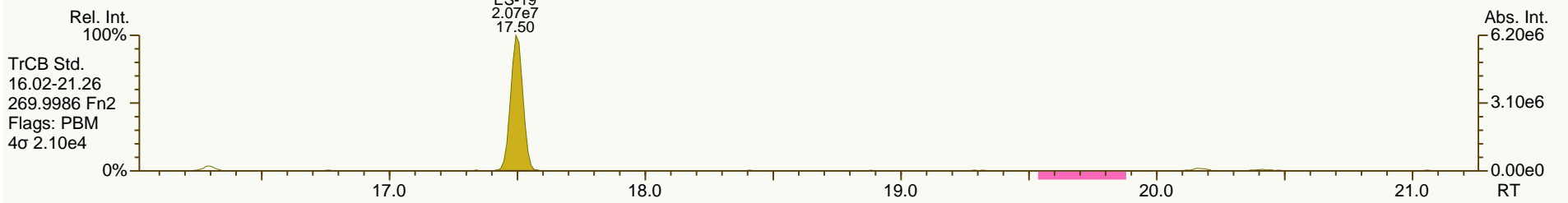
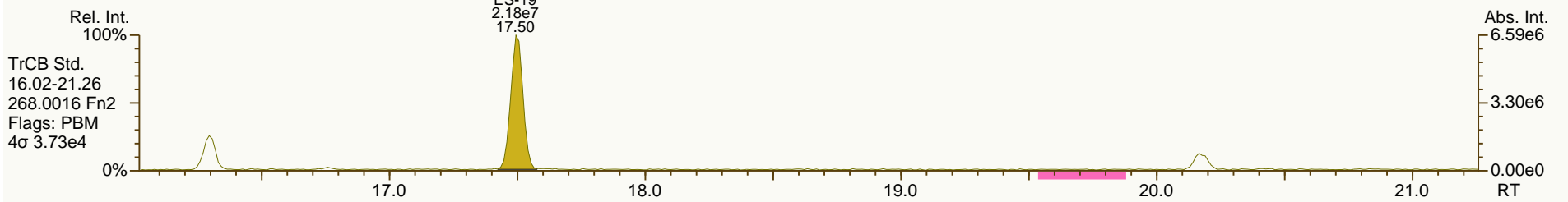
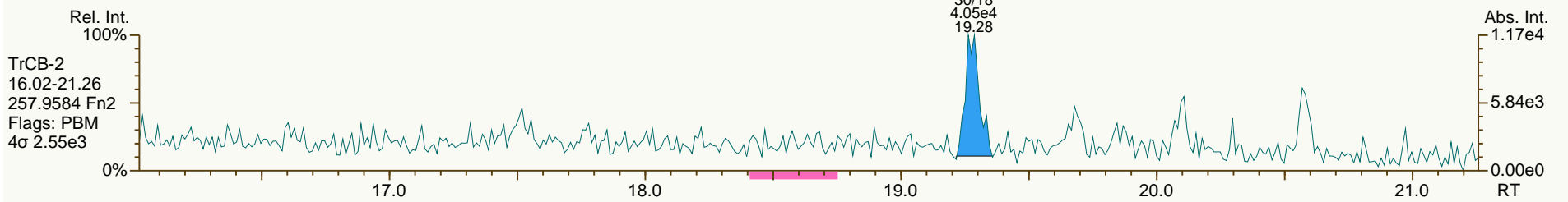
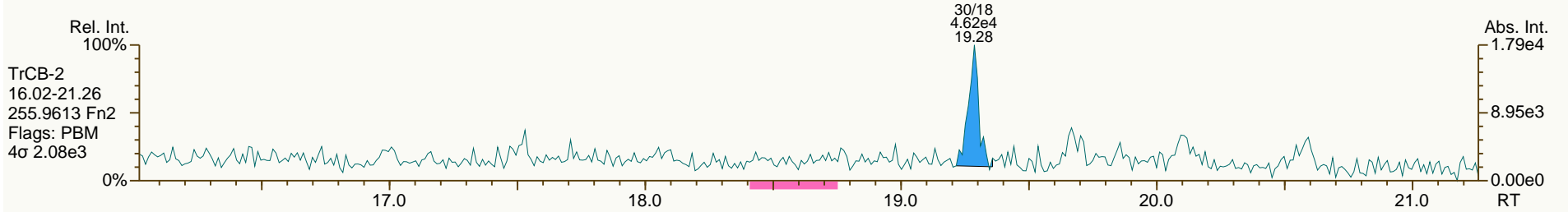
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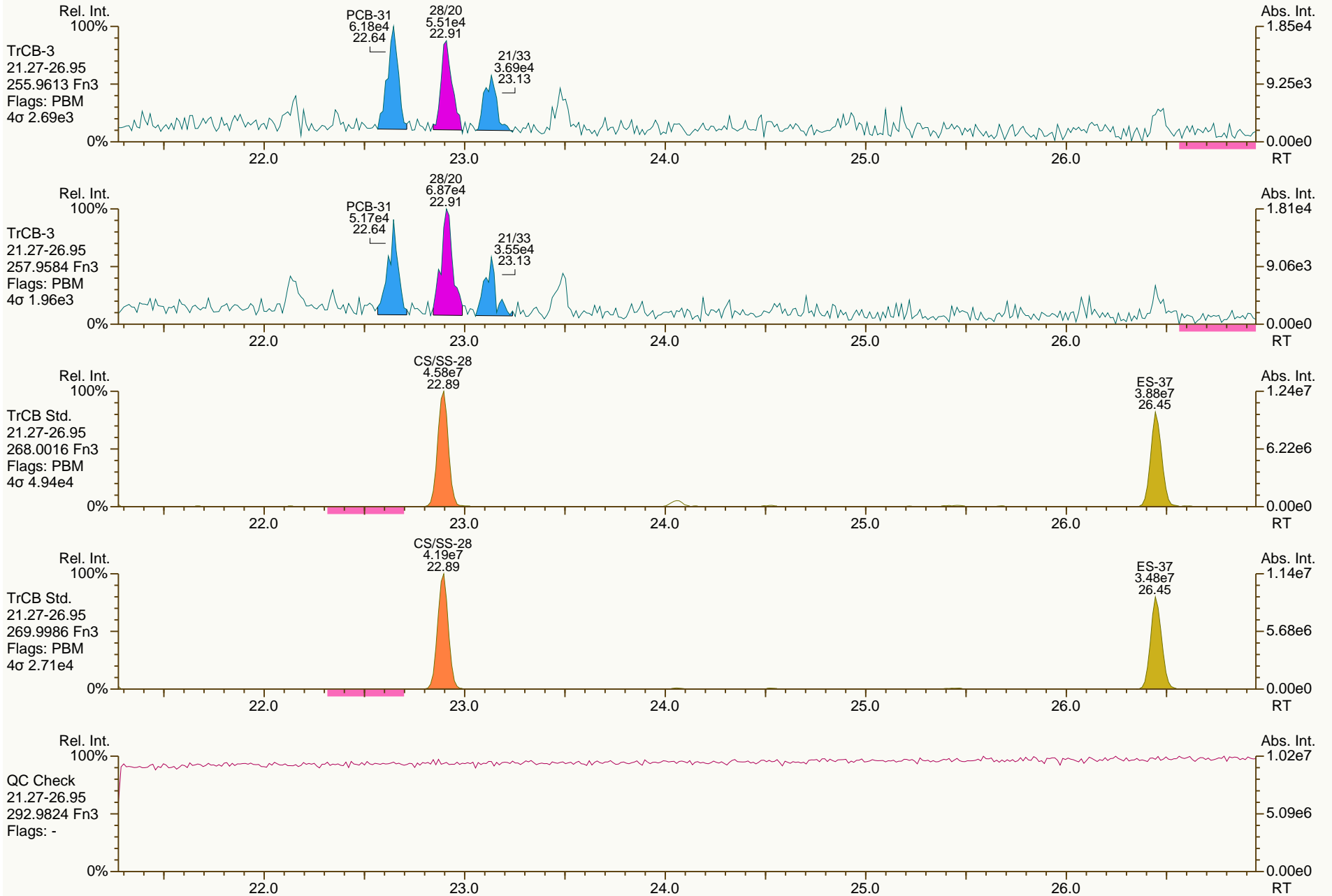
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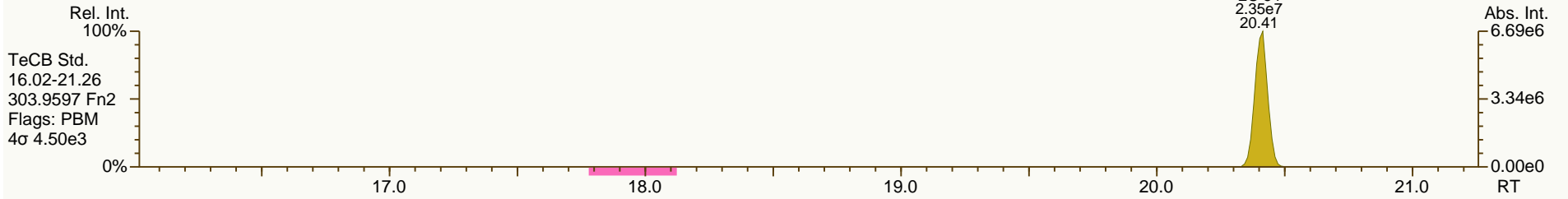
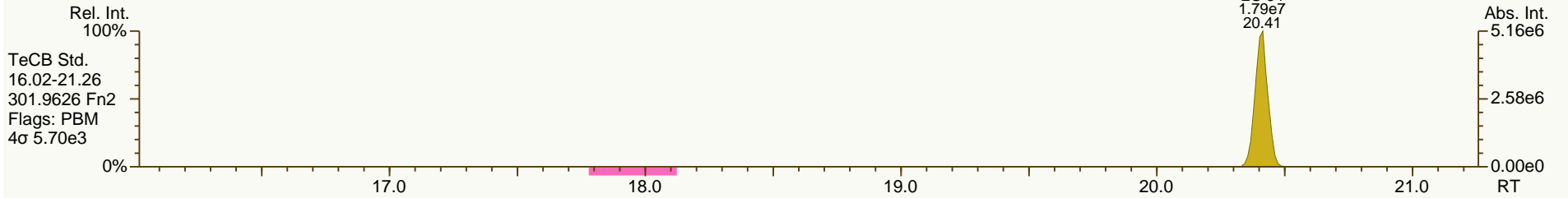
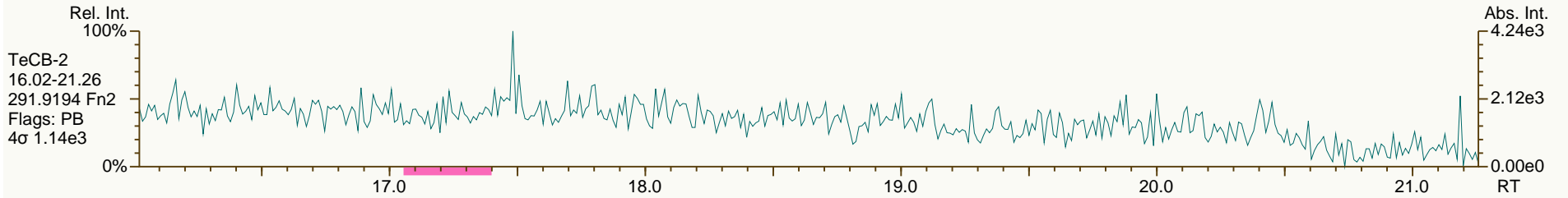
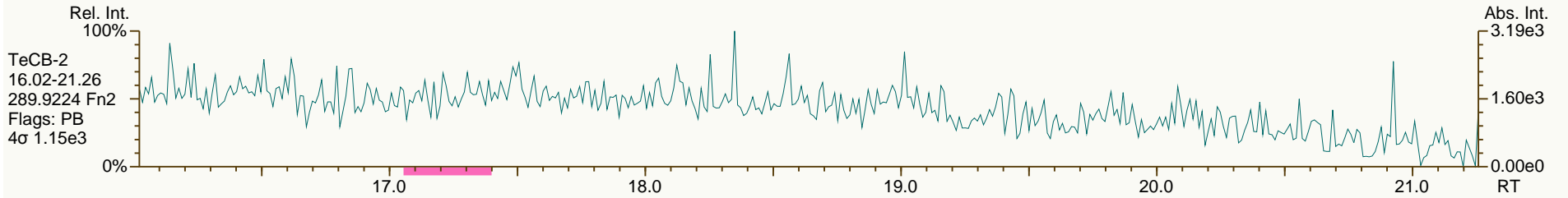
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Sample ID: Method Blank  
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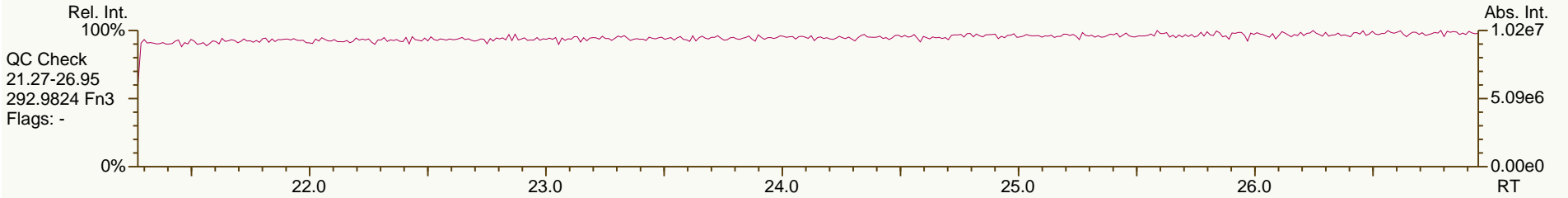
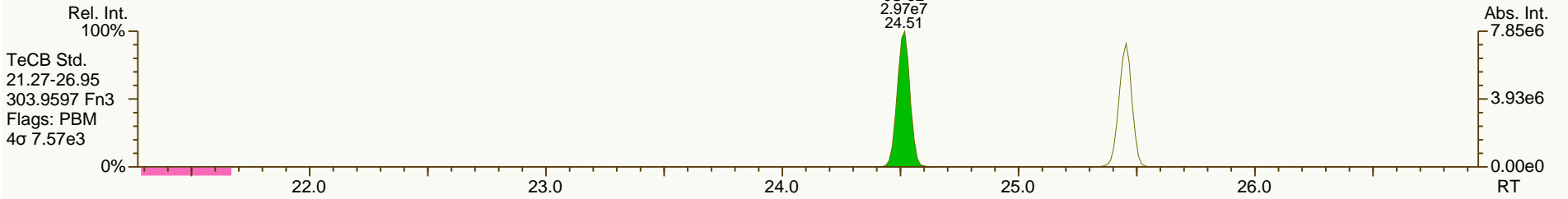
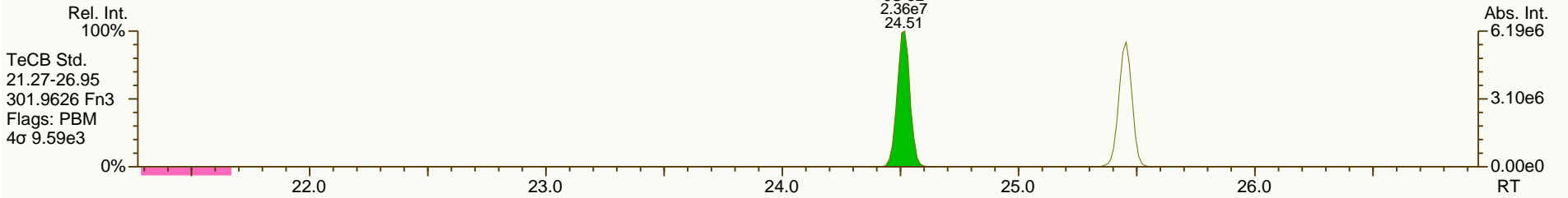
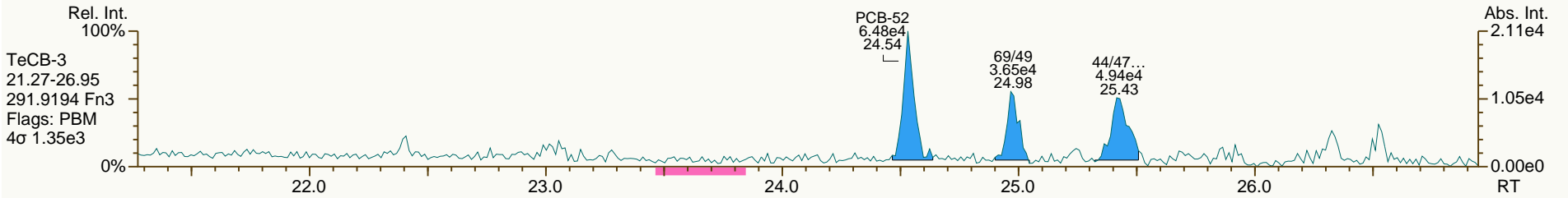
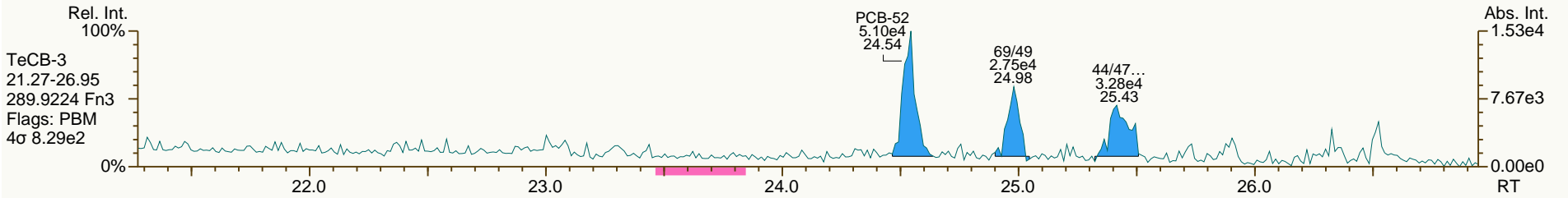
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Sample ID: Method Blank  
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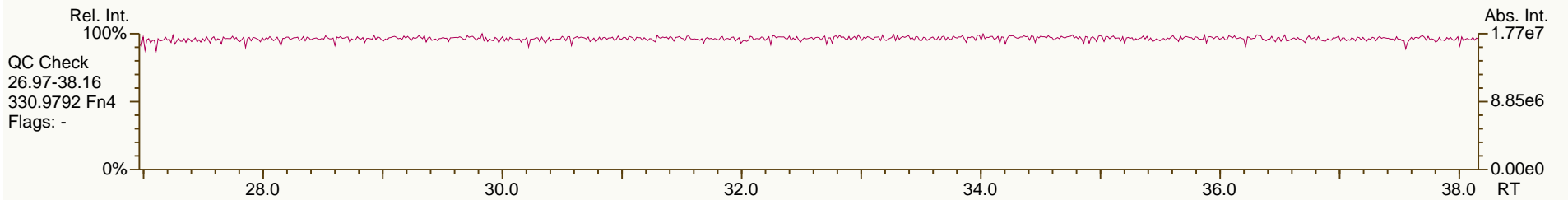
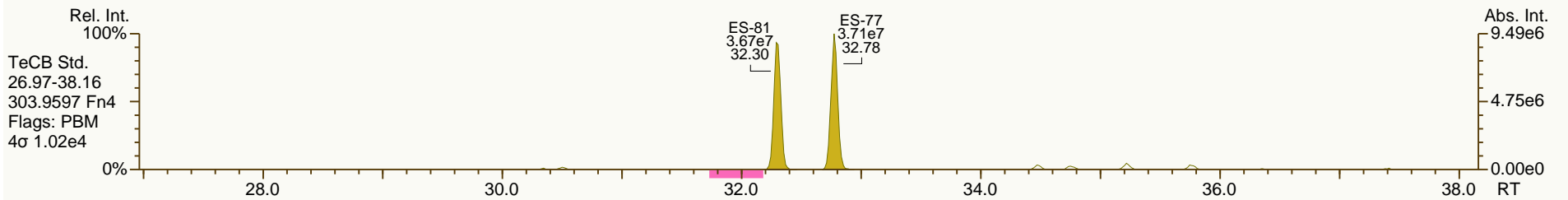
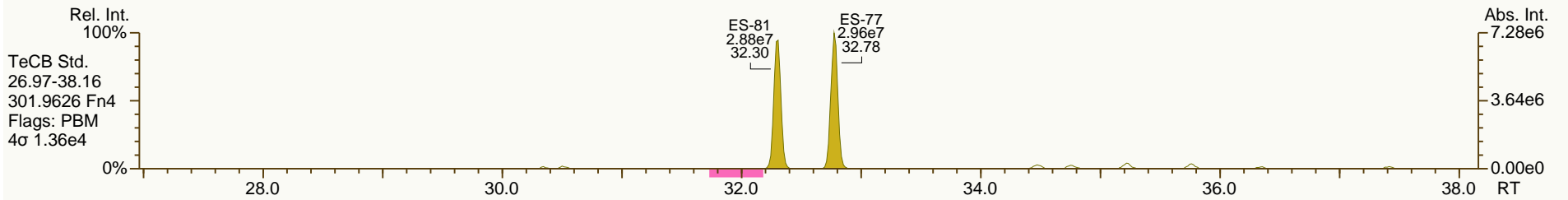
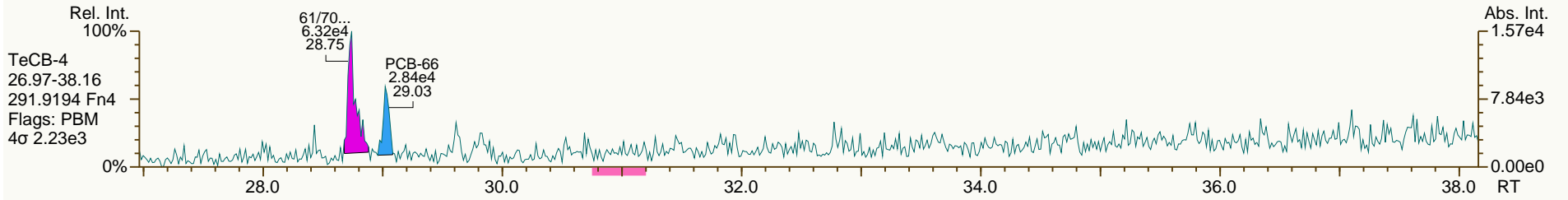
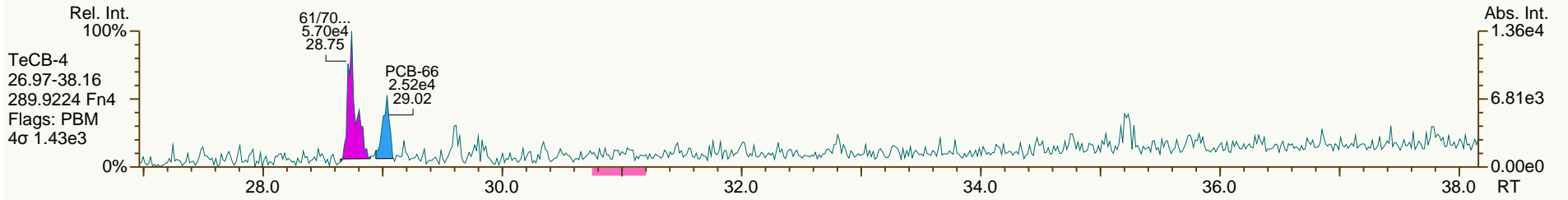
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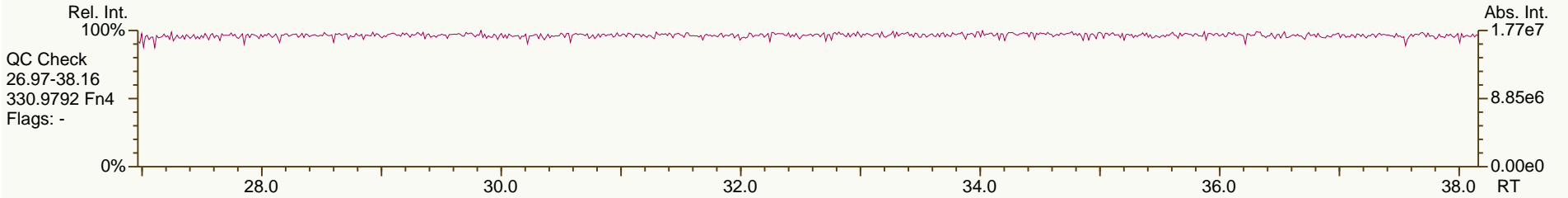
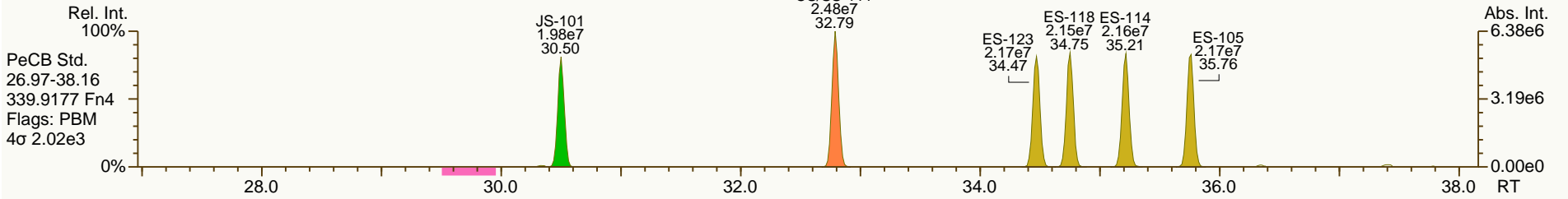
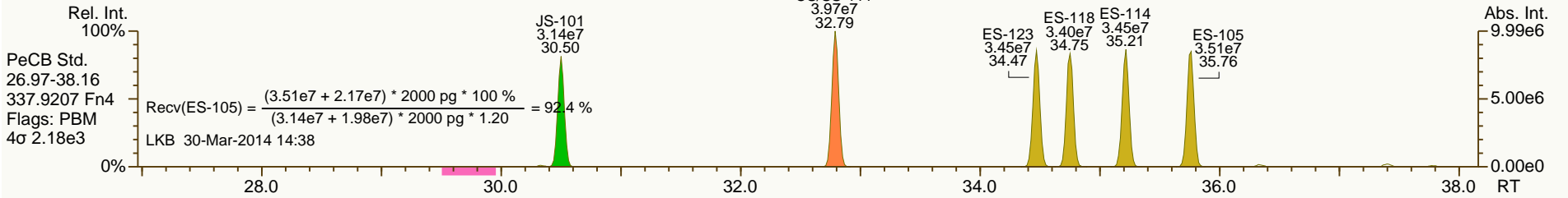
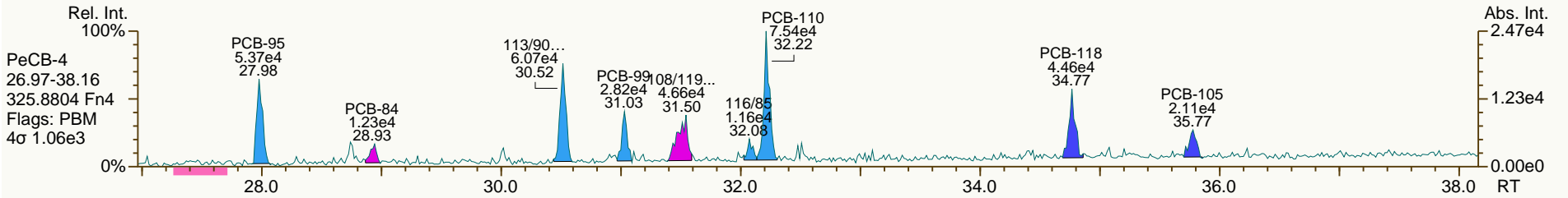
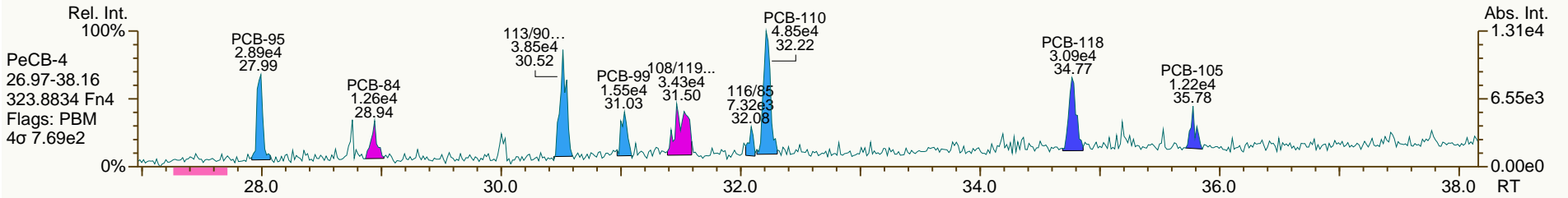
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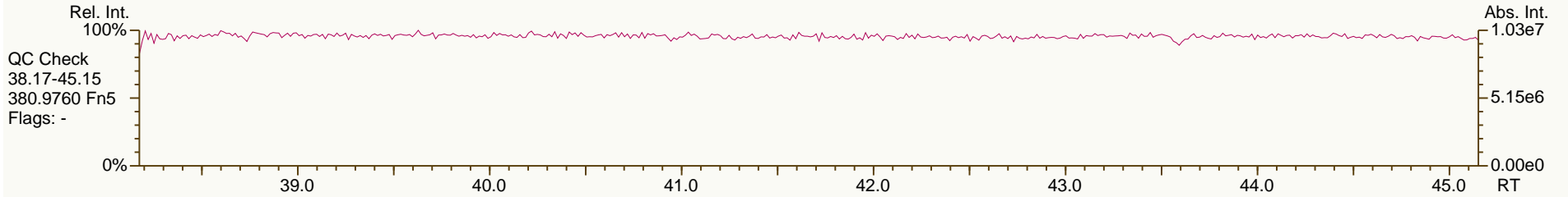
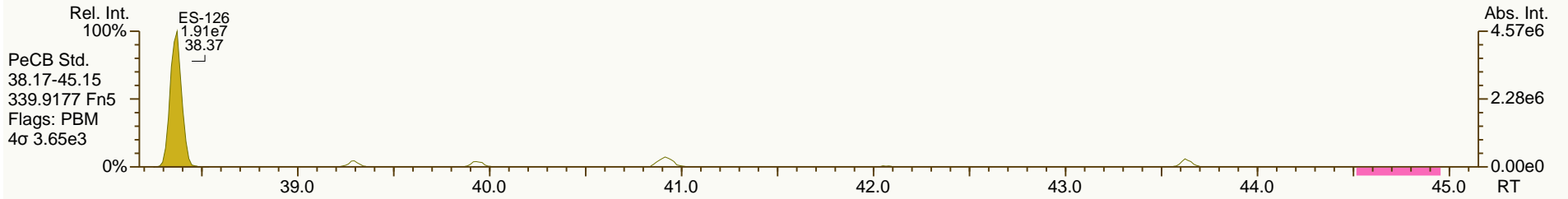
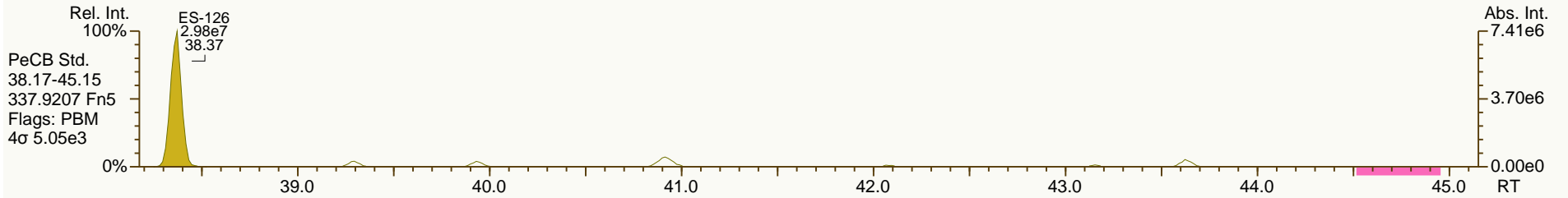
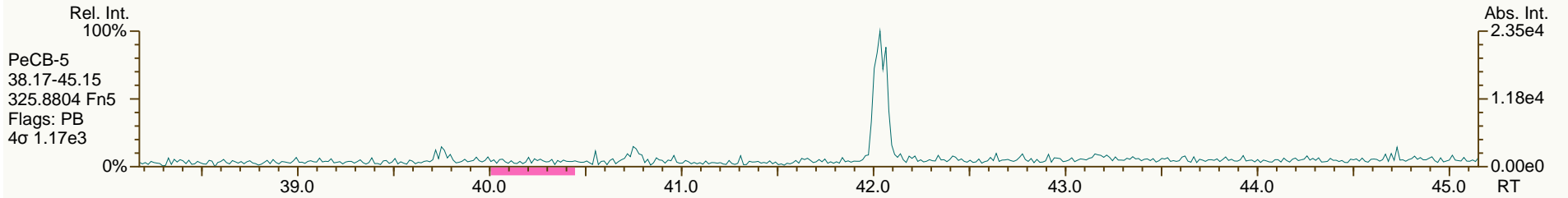
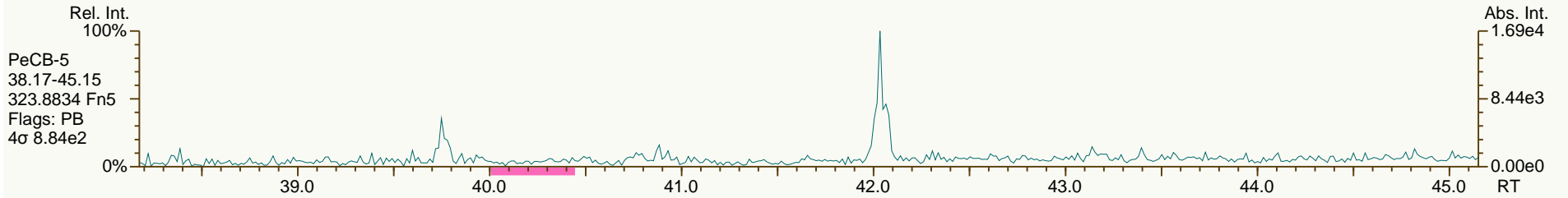
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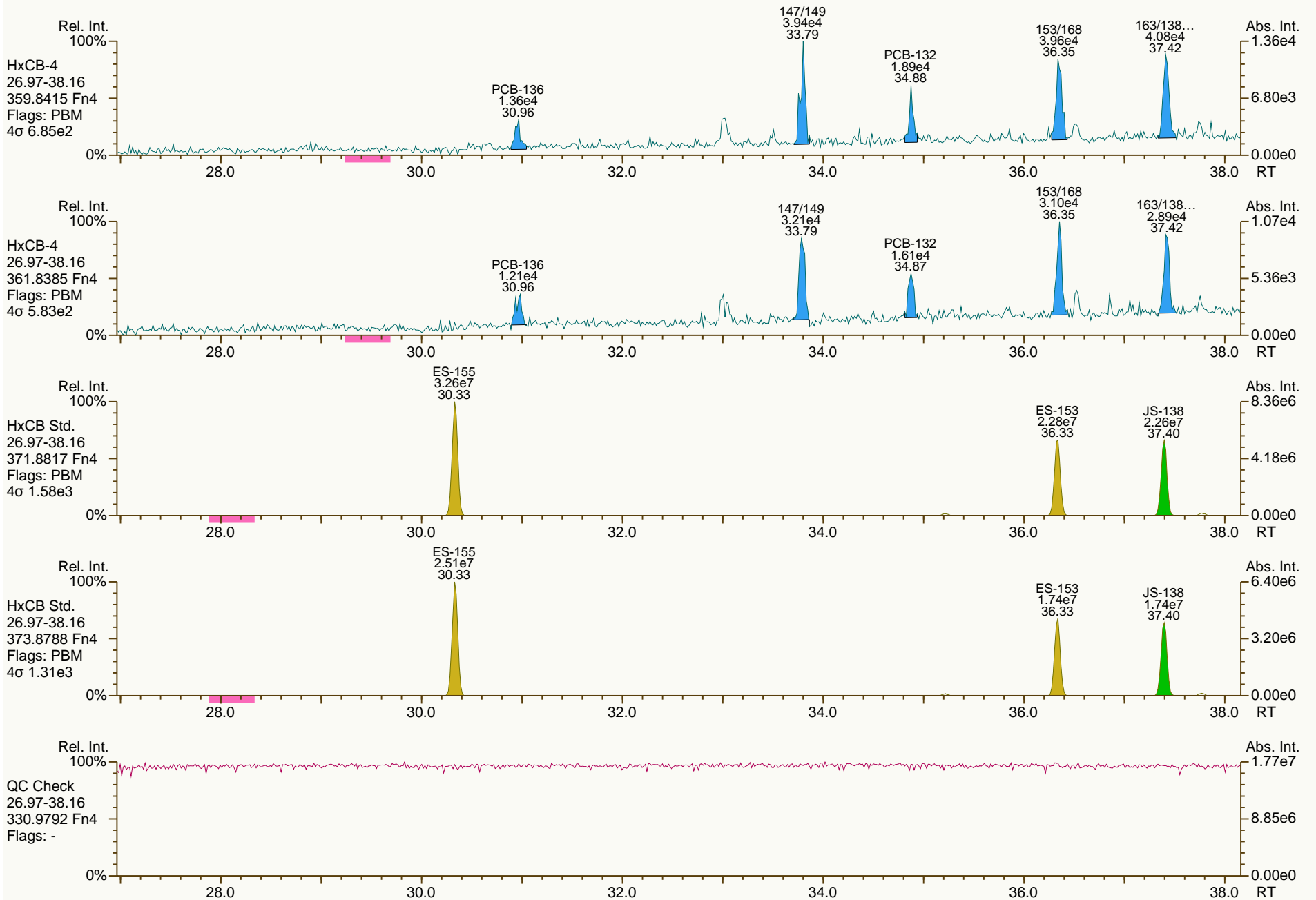
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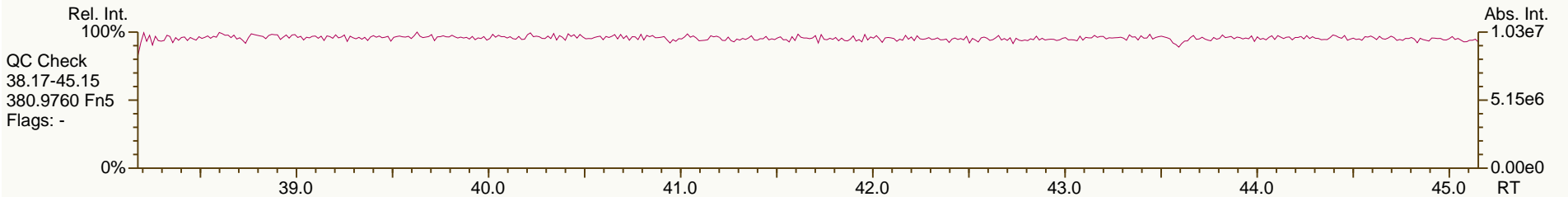
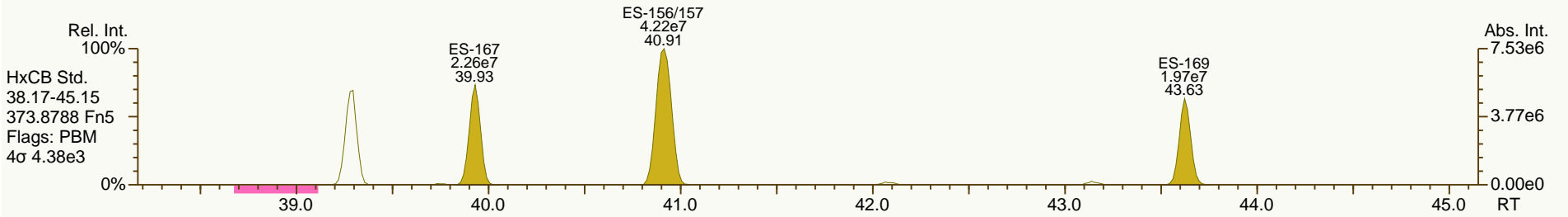
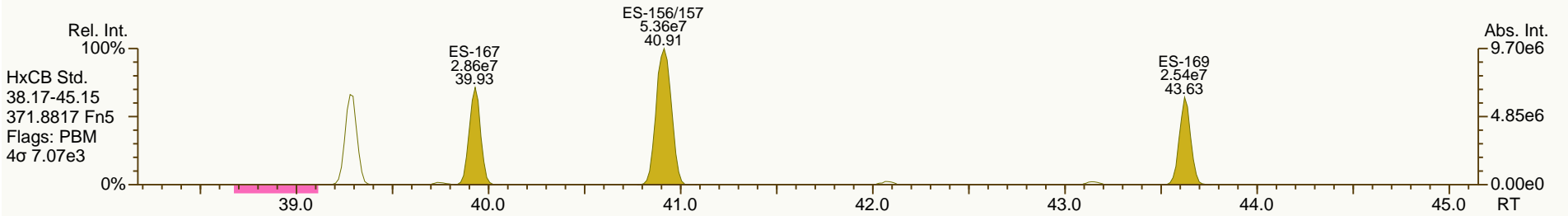
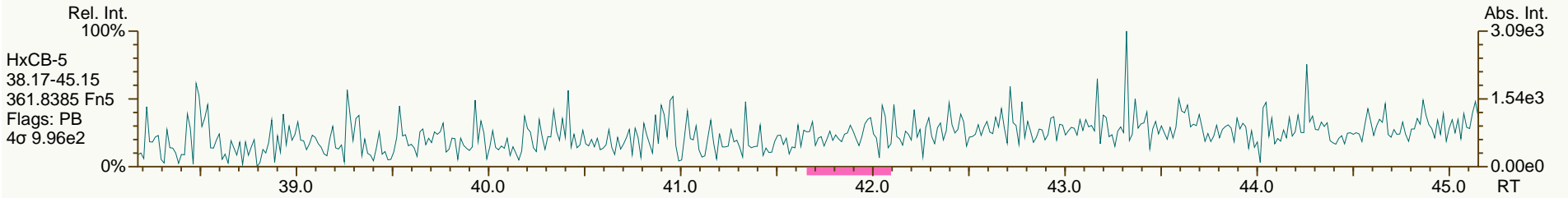
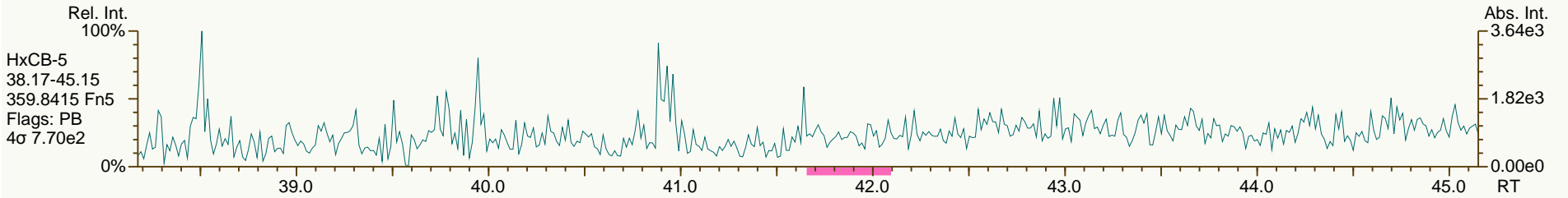
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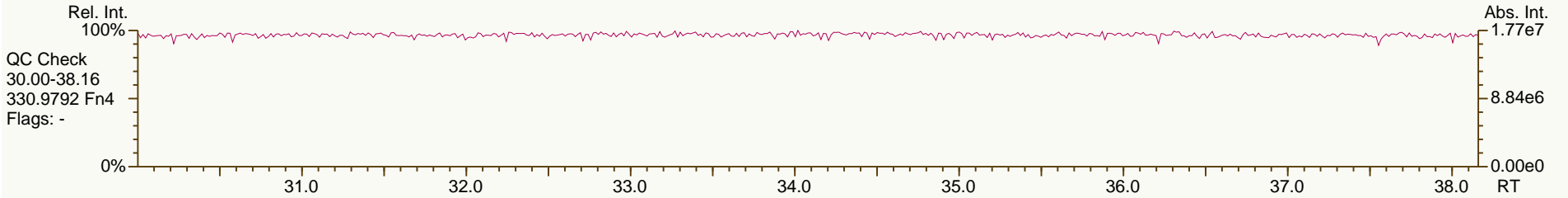
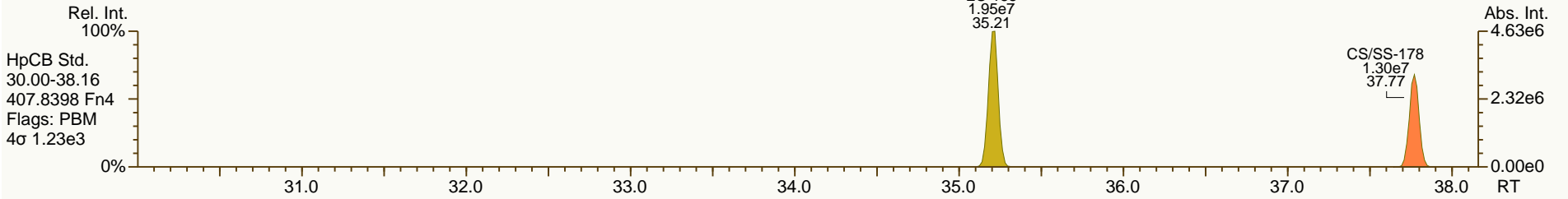
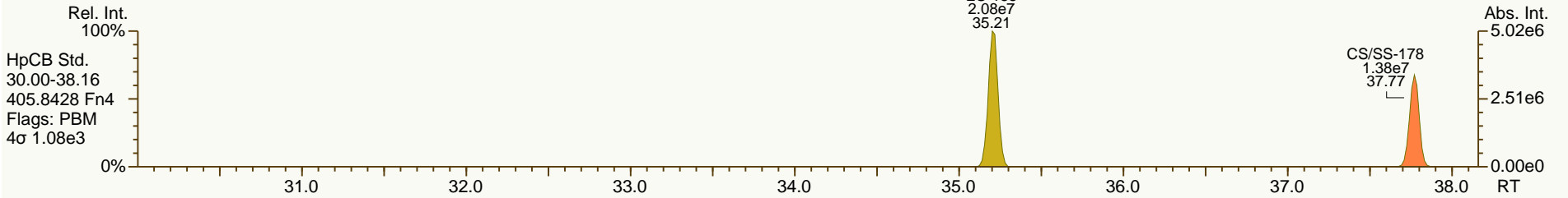
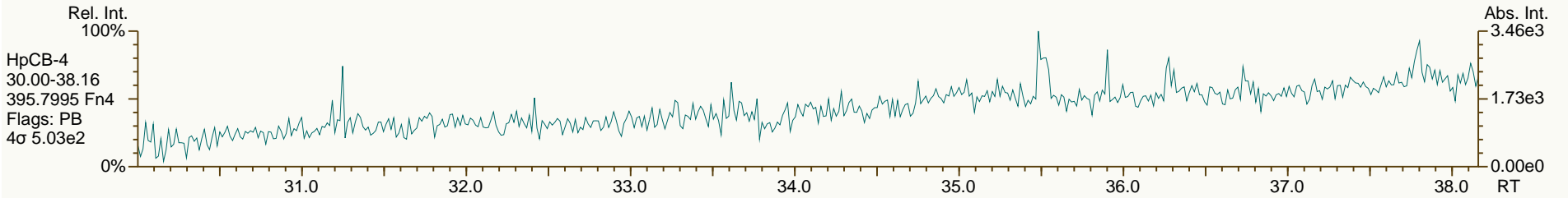
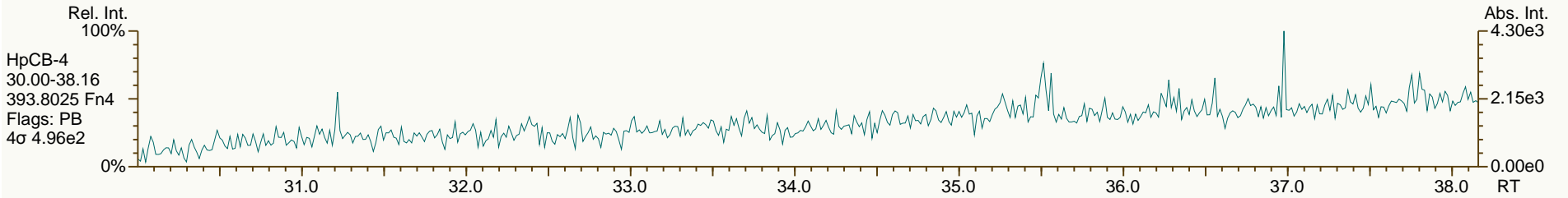
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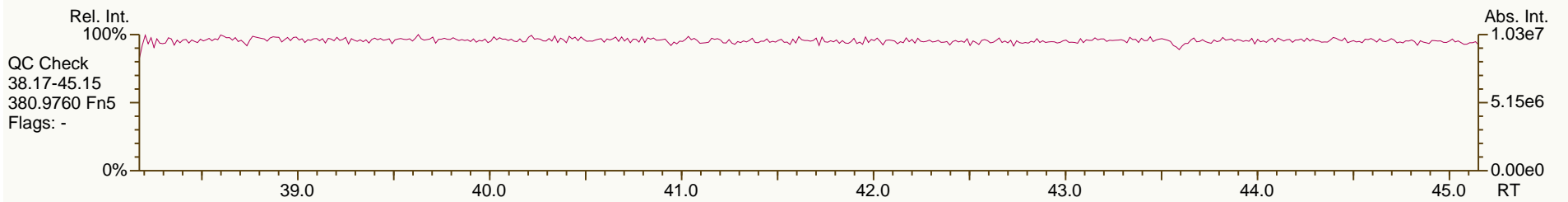
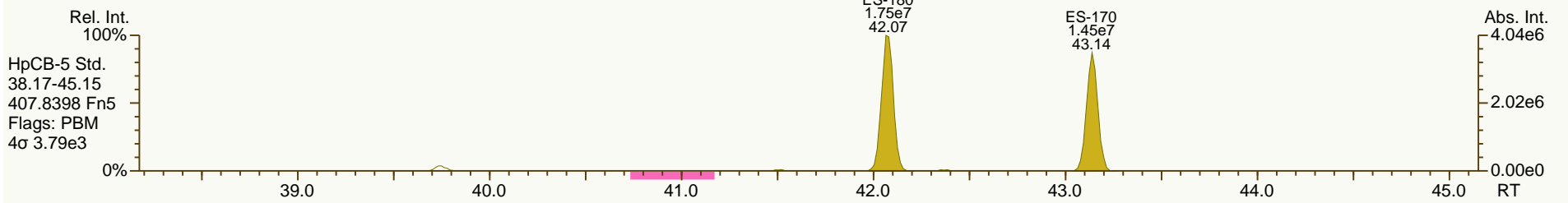
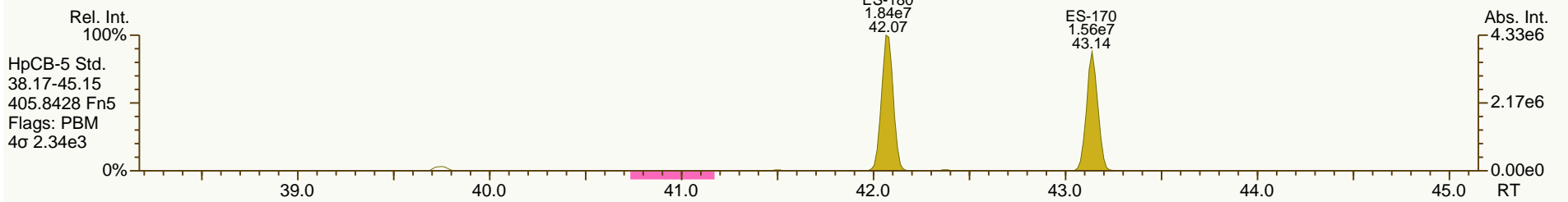
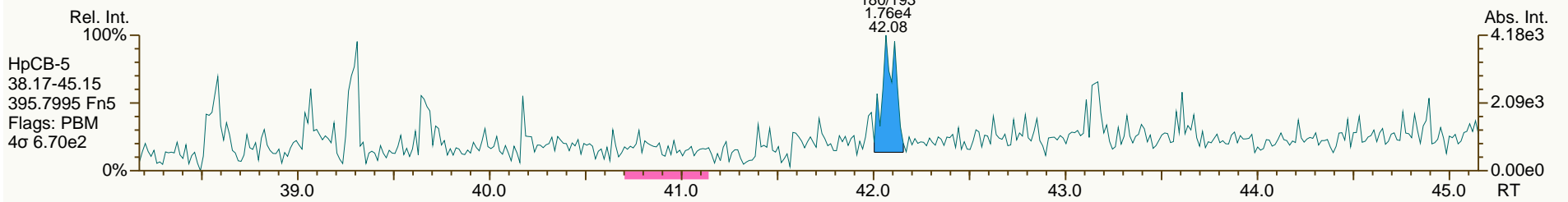
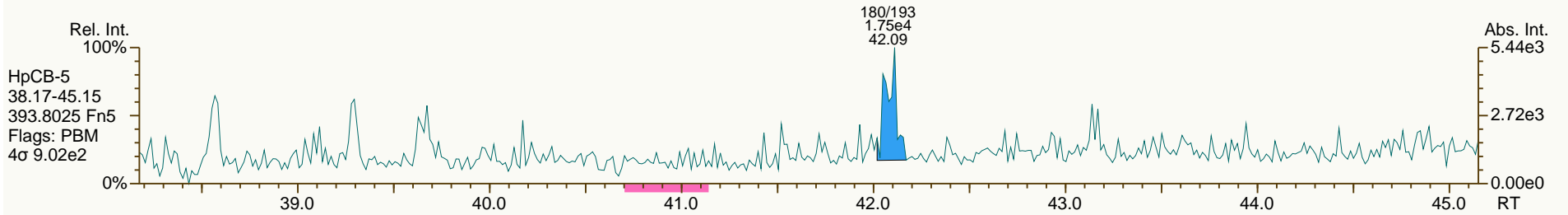
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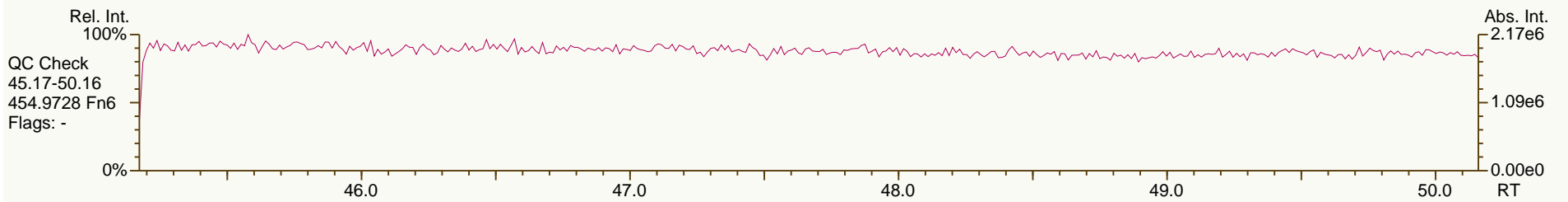
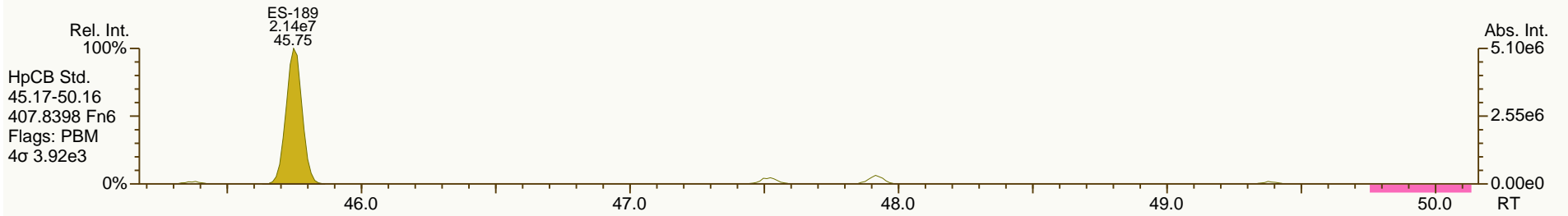
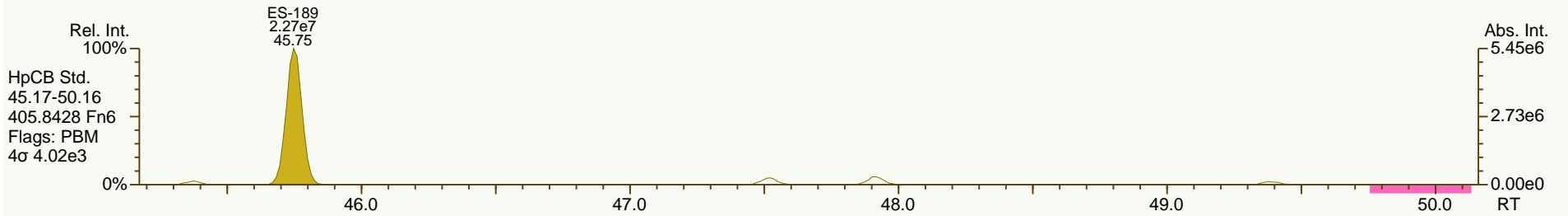
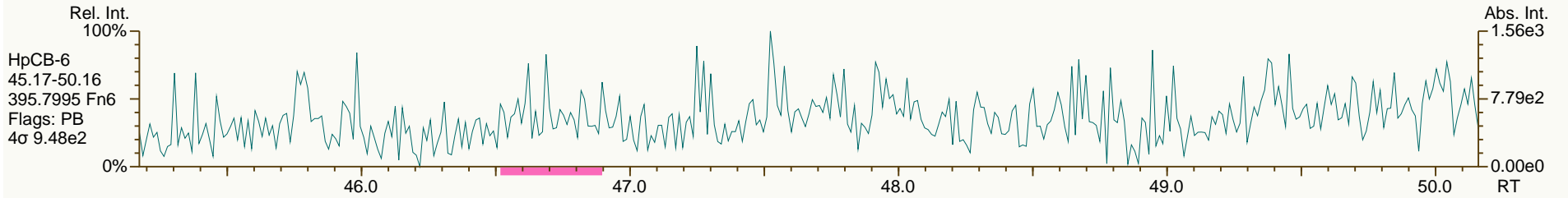
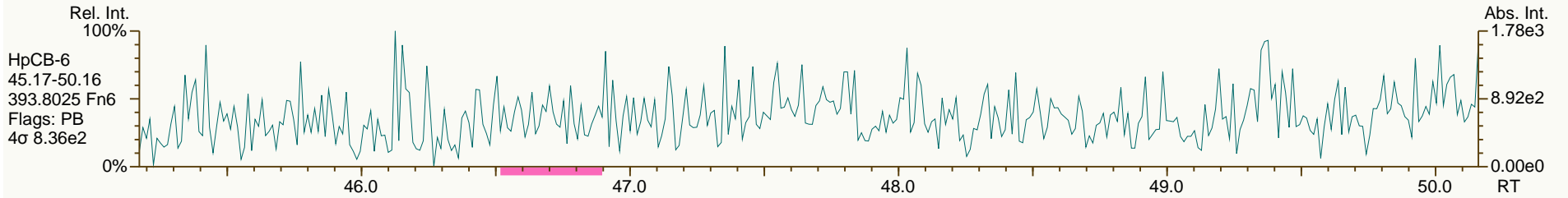
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 User: LKB Datafile: 140327X04



SGS-AP ID: MB1\_11899\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 48

Acq: 27-Mar-2014 13:23:08  
 User: LKB Datafile: 140327X04

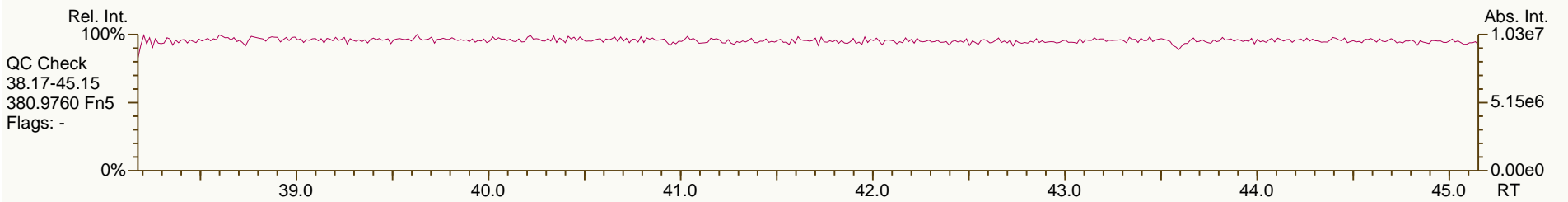
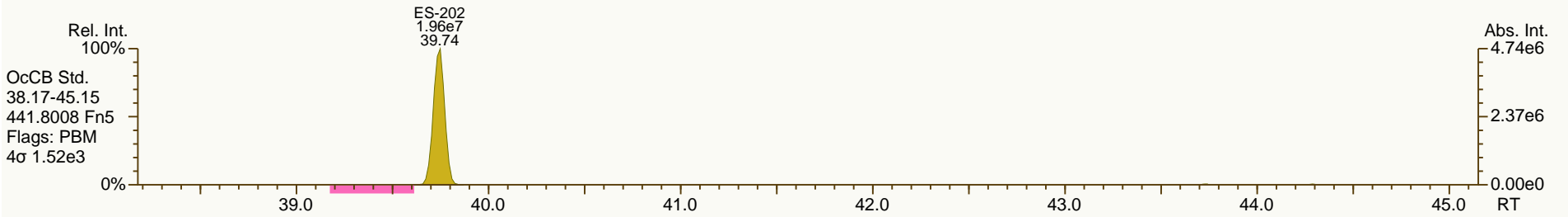
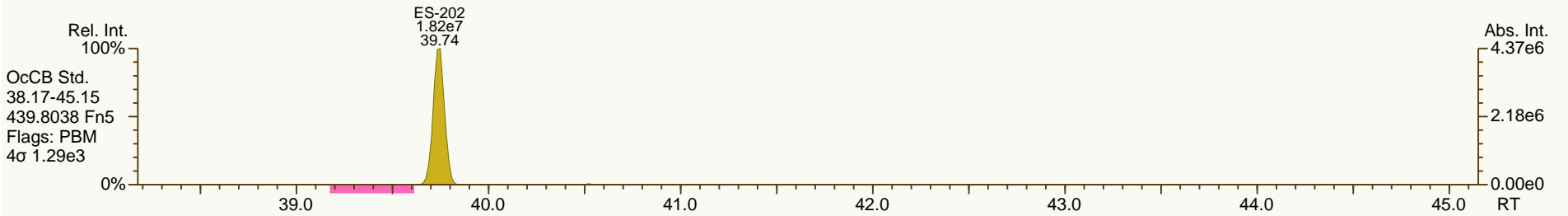
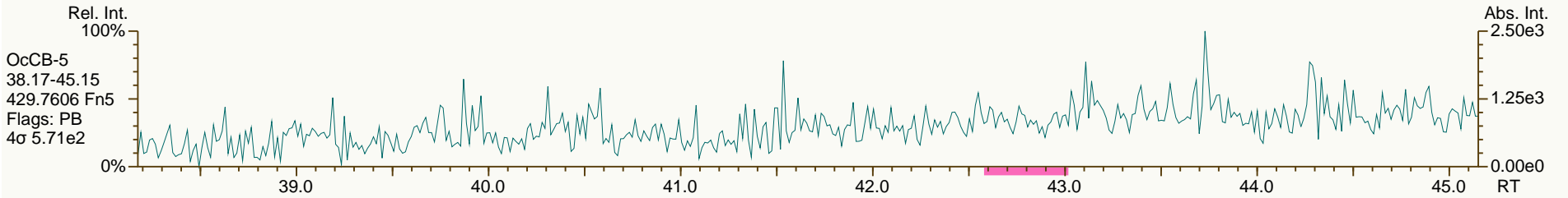
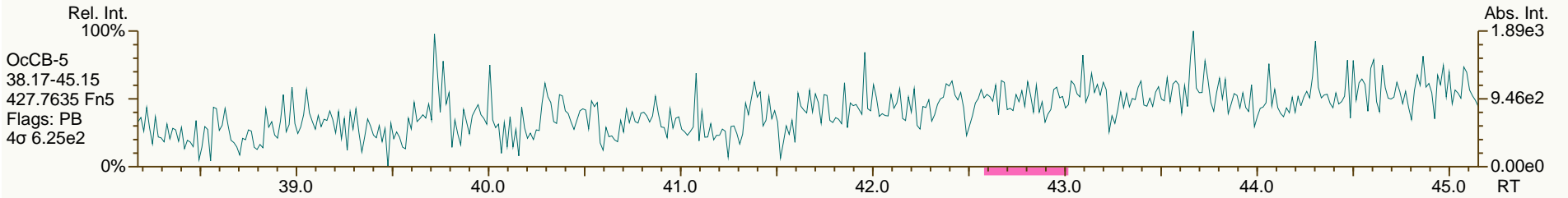




SGS-AP ID: MB1\_11899\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 48

Acq: 27-Mar-2014 13:23:08  
 User: LKB Datafile: 140327X04



SGS-AP ID: MB1\_11899\_PCB\_TLX  
 Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 48

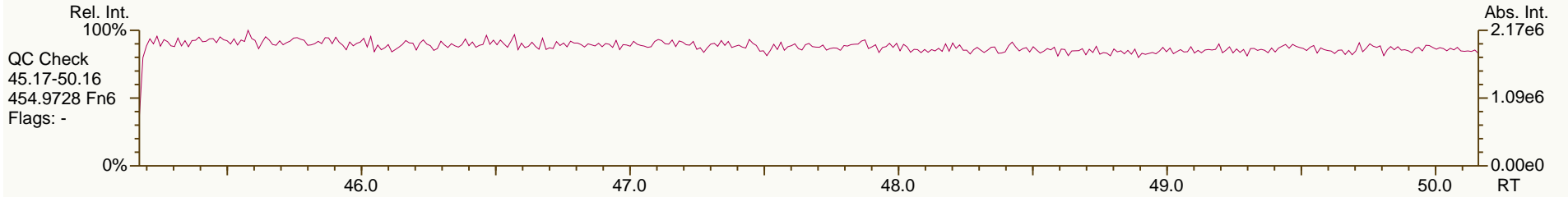
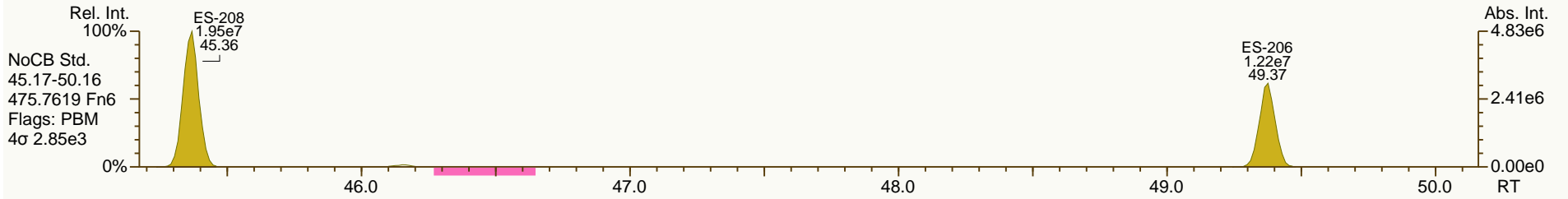
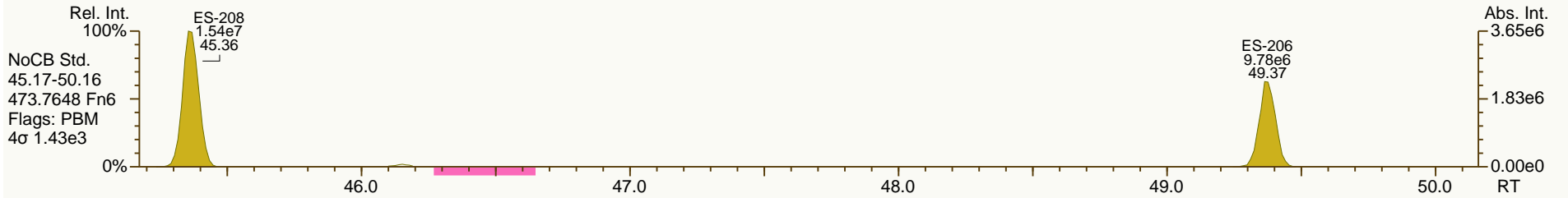
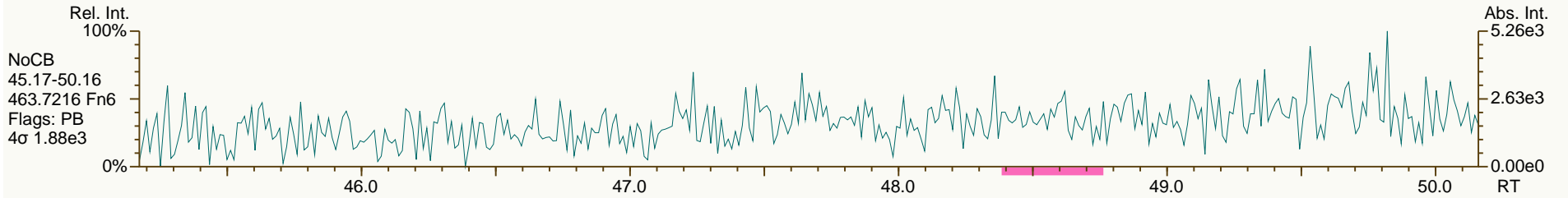
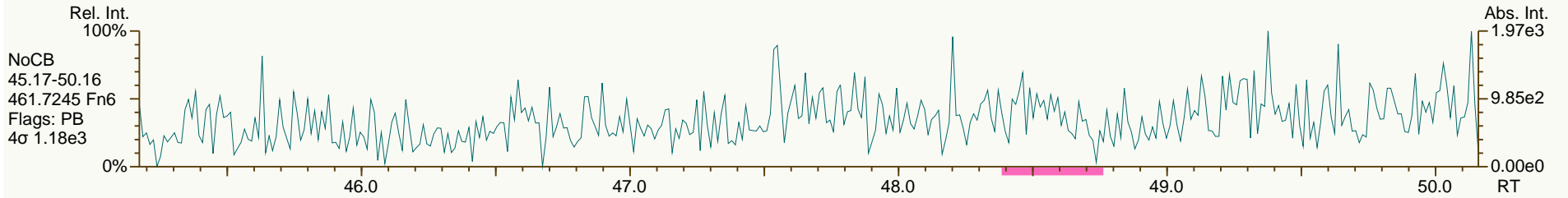
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SGS-AP ID: MB1\_11899\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 48

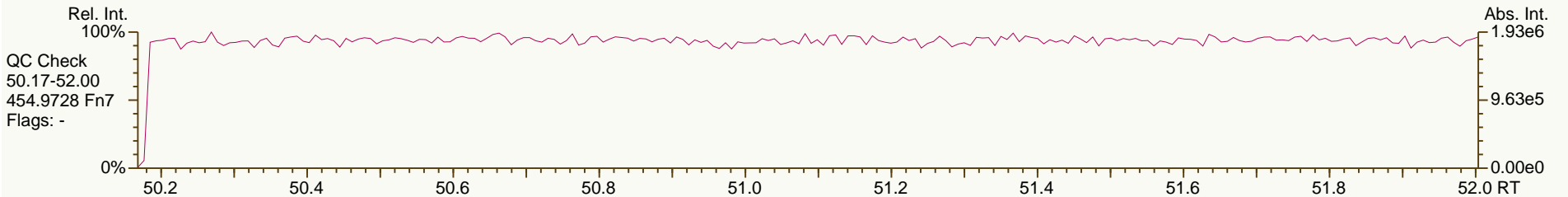
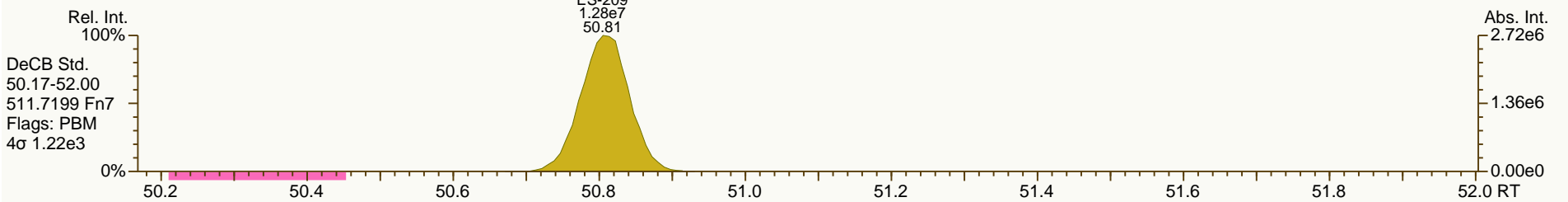
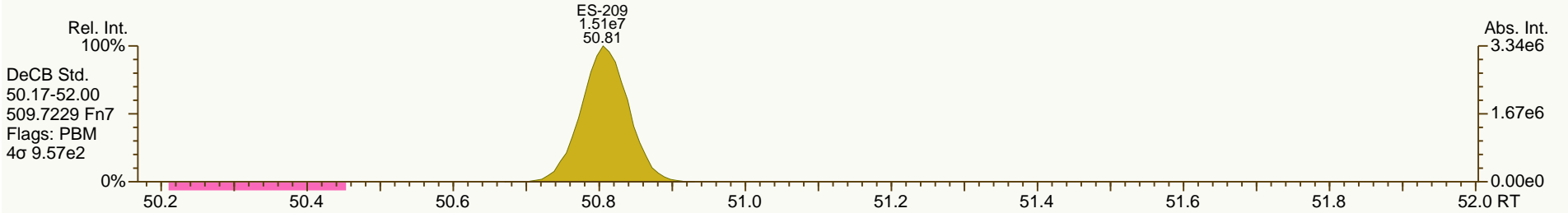
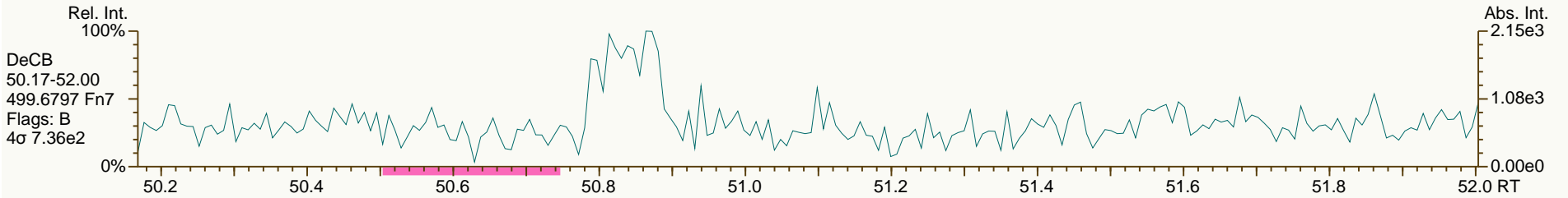
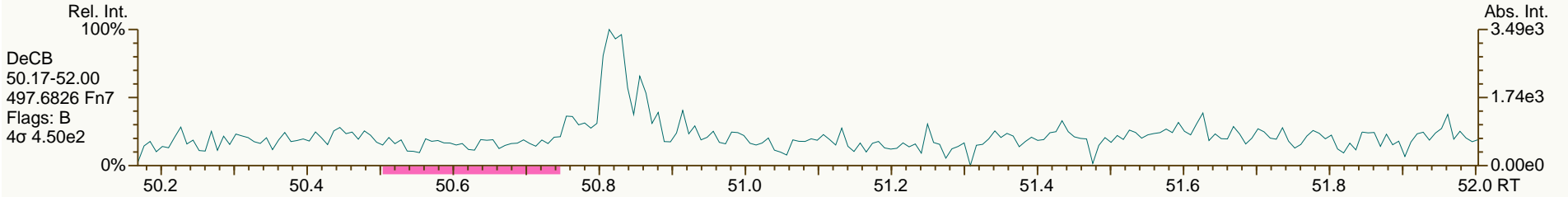
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SGS-AP ID: MB1\_11899\_PCB\_TLX  
Instr: AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 48

Acq: 27-Mar-2014 13:23:08  
User: LKB Datafile: 140327X04



Lab ID: A6506\_11899\_PCB\_001

ACQ: 27-Mar-2014 14:18:19 LKB

Wt/Vol: 0.92 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA

Client ID: PB070\_B-2SWMID-140314-N (TOTAL)

UTP: 30-Mar-2014 13:53 LKB

J-level: 10.9 pg/L Split: 1

Checkcode: 561-113-BSP

Datafile: 140327X05

RPT: 30-Mar-2014 14:29 LB

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79		1.0006	1.0005	-0.2	4.81E+06	0.82	1.15	268	5.86E+03	3.5
PCB-81 344'5'-TeCB	32.31		1.0005	1.0006	+0.2	2.19E+05	0.78	1.12	13.2	5.86E+03	3.5
PCB-105 233'44'-PeCB	35.77		1.0006	1.0006	0	1.15E+07	0.60	1.11	804	3.88E+03	2.74
PCB-114 2344'5'-PeCB	35.23		1.0007	1.0006	-0.2	7.43E+05	0.61	1.20	48.5	3.88E+03	2.57
PCB-118 23'44'5'-PeCB	34.76		1.0006	1.0006	0	2.10E+07	0.61	1.19	1,410	3.88E+03	2.7
PCB-123 23'44'5'-PeCB	34.48		1.0006	1.0006	0	6.52E+05	0.67	1.21	43.1	3.88E+03	2.68
PCB-126 33'44'5'-PeCB	38.38	J EMPC	1.0005	1.0005	0	9.77E+04	0.77	1.11	8.33	2.42E+03	2
PCB-156/157 ...-HxCB	40.91	C	1.0005	1.0001	-1.0	9.68E+05	1.22	1.10	81.3	1.85E+03	2.16
PCB-167 23'44'55'-HxCB	39.94		1.0006	1.0005	-0.2	3.06E+05	1.38	1.16	22.5	1.85E+03	1.41
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.85E+03	1.8
PCB-189 233'44'55'-HpCB	45.76	J EMPC	1.0004	1.0004	0	3.98E+04	1.25	1.07	3.81	1.69E+03	1.77
PCB-209 DeCB	50.82		1.0004	1.0004	0	2.24E+06	1.16	1.11	332	1.25E+03	2.2
ES PCB-1	11.87		0.7245	0.7244	-0.1	3.39E+07	3.23	1.19	50.6 %	15%	150%
ES PCB-3	14.16		0.8640	0.8640	0	3.75E+07	3.27	1.09	61.4 %	15%	150%
ES PCB-4	14.41		0.8795	0.8793	-0.2	2.06E+07	1.59	0.52	70.3 %	25%	150%
ES PCB-15	20.13		1.2271	1.2277	+0.7	5.05E+07	1.56	1.04	86.3 %	25%	150%
ES PCB-19	17.50		1.0673	1.0673	0	2.24E+07	1.08	0.51	78.9 %	25%	150%
ES PCB-37	26.44		1.0787	1.0790	+0.5	3.85E+07	1.09	1.66	77.9 %	25%	150%
ES PCB-54	20.41		0.8328	0.8326	-0.2	2.34E+07	0.77	0.86	91.5 %	25%	150%
ES PCB-77	32.77		1.3364	1.3371	+1.4	3.40E+07	0.82	1.38	82.7 %	25%	150%
ES PCB-81	32.29		1.3170	1.3176	+1.2	3.25E+07	0.82	1.37	80 %	25%	150%
ES PCB-104	25.38		0.8325	0.8322	-0.5	2.20E+07	1.62	0.80	99.6 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	2.81E+07	1.61	1.20	85.2 %	25%	150%
ES PCB-114	35.21		1.1543	1.1546	+0.6	2.78E+07	1.65	1.22	83.1 %	25%	150%
ES PCB-118	34.74		1.1391	1.1394	+0.6	2.74E+07	1.59	1.16	85.9 %	25%	150%
ES PCB-123	34.46		1.1299	1.1302	+0.6	2.73E+07	1.57	1.19	83.6 %	25%	150%
ES PCB-126	38.36		1.2575	1.2580	+1.2	2.32E+07	1.57	1.03	81.9 %	25%	150%
ES PCB-153	36.33		0.9716	0.9716	0	1.99E+07	1.29	1.11	84.4 %	25%	150%
ES PCB-155	30.32		0.8114	0.8111	-0.5	2.96E+07	1.28	1.59	89.1 %	25%	150%
ES PCB-156/157	40.91		1.0939	1.0941	+0.5	4.74E+07	1.29	1.60	70.9 %	25%	150%
ES PCB-167	39.92		1.0677	1.0678	+0.2	2.56E+07	1.27	1.67	73.3 %	25%	150%
ES PCB-169	43.62		1.1664	1.1667	+0.8	2.20E+07	1.29	1.56	67.8 %	25%	150%
ES PCB-170	43.13		0.9081	0.9080	-0.3	1.49E+07	1.07	0.95	86.3 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	1.82E+07	1.09	1.14	87.2 %	25%	150%
ES PCB-188	35.20		0.7413	0.7410	-0.6	2.03E+07	1.09	0.94	103 %	25%	150%
ES PCB-189	45.74		0.9629	0.9629	0	2.13E+07	1.04	1.58	90 %	25%	150%
ES PCB-202	39.74		0.8366	0.8364	-0.5	1.90E+07	0.94	0.97	93.9 %	25%	150%
ES PCB-205	47.91		1.0084	1.0084	0	1.51E+07	0.89	1.24	81.5 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	1.05E+07	0.81	0.83	84.6 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	1.73E+07	0.80	1.17	98.8 %	25%	150%
ES PCB-209	50.80		1.0694	1.0694	0	1.33E+07	1.19	1.11	80.2 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	4.83E+07	1.08	1.11	113 %	30%	135%
SS PCB-111	32.78		1.0750	1.0751	+0.2	3.21E+07	1.60	1.03	114 %	30%	135%
SS PCB-178	37.76		1.0100	1.0100	0	1.40E+07	1.11	0.62	112 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	4.83E+07	1.08	1.85	87.9 %	30%	135%
CS PCB-111	32.78		1.0750	1.0751	+0.2	3.21E+07	1.60	1.22	95.4 %	30%	135%
CS PCB-178	37.76		1.0100	1.0100	0	1.40E+07	1.11	0.58	116 %	30%	135%
JS PCB-9	16.39					5.62E+07	1.56				
JS PCB-52	24.51					2.97E+07	0.81				
JS PCB-101	30.49					2.75E+07	1.62				
JS PCB-138	37.39					2.09E+07	1.27				
JS PCB-194	47.51					1.49E+07	0.89				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	79	79	2.14		
						Di-CBs	1,430	1,430	3.34		
						Tri-CBs	16,400	16,400	3.46		
						Tetra-CBs	36,300	36,300	2.3		
						Penta-CBs	13,900	13,900	2.28		
						Hexa-CBs	2,780	2,780	1.55		
						Hepta-CBs	662	666	1.56		
						Octa-CBs	149	155	1.98		
						Nona-CBs	37.1	49.7	4.7		
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	1.04E+06	3.29	0.95	70.1	4.89E+03	2.12
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.20	ND	4.89E+03	1.82
PCB-3 4-MoCB	14.18	J	1.0010	1.0009	-0.1	1.55E+05	3.58	1.01	8.95	4.89E+03	2.16
PCB-4 22'-DiCB	14.43		1.0011	1.0011	0	6.07E+06	1.57	1.23	521	5.65E+03	3.59
PCB-10 26'-DiCB	14.61		1.0135	1.0135	0	3.98E+05	1.61	1.90	22.1	5.65E+03	2.33
PCB-9 25'-DiCB	16.41		1.0010	1.0010	0	6.83E+05	1.48	1.01	29.3	8.00E+03	3.11
PCB-7 24'-DiCB	16.57		1.0111	1.0111	0	2.87E+05	1.63	1.14	10.9	8.00E+03	2.76
PCB-6 23'-DiCB	16.80		1.0249	1.0249	0	2.41E+06	1.56	1.06	98.2	8.00E+03	2.95
PCB-5 23'-DiCB	17.10	J	1.0433	1.0431	-0.2	1.90E+05	SI	1.07	7.67	8.00E+03	2.93
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	1.01E+07	1.62	1.10	399	8.00E+03	2.86
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	8.00E+03	2.46
PCB-11 33'-DiCB	19.56	B	0.9721	0.9721	0	9.23E+05	1.54	1.10	36.3	8.00E+03	2.85
PCB-13/12 34'/34'-DiCB	19.84	C	0.9866	0.9857	-1.1	8.29E+05	1.56	1.10	32.8	8.00E+03	2.86
PCB-15 44'-DiCB	20.14		1.0008	1.0006	-0.2	6.32E+06	1.62	1.02	268	8.00E+03	3.08
PCB-19 22'6-TrCB	17.51		1.0010	1.0010	0	4.20E+06	1.06	1.15	356	5.09E+03	3.44
PCB-30/18 246/22'5-TrCB	19.28	C	1.1014	1.1019	+0.6	5.38E+07	1.03	1.54	3,410	5.09E+03	2.57
PCB-17 22'4-TrCB	19.68		1.1243	1.1245	+0.2	1.50E+07	1.06	1.32	1,100	5.09E+03	2.98
PCB-27 23'6-TrCB	19.87		1.1353	1.1355	+0.2	3.53E+06	1.05	1.80	191	5.09E+03	2.19
PCB-24 236-TrCB	20.00		1.1430	1.1428	-0.2	3.96E+05	1.08	1.71	22.6	5.09E+03	2.31
PCB-16 22'3-TrCB	20.10		1.1484	1.1486	+0.2	1.23E+07	1.04	1.01	1,180	5.09E+03	3.9
PCB-32 24'6-TrCB	20.58		1.1758	1.1761	+0.4	2.00E+07	1.04	1.90	1,020	5.09E+03	2.08

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.73	J	0.8218	0.8215	-0.4	2.20E+05	1.01	1.28	9.81	6.88E+03	2.94
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	6.88E+03	2.94
PCB-26/29 23'5'/245-TrCB	22.14	C	0.8383	0.8371	-1.6	1.07E+07	1.02	1.29	471	6.88E+03	2.91
PCB-25 23'4'-TrCB	22.36		0.8456	0.8456	0	4.15E+06	0.98	1.28	183	6.88E+03	2.92
PCB-31 24'5'-TrCB	22.64		0.8562	0.8560	-0.3	7.36E+07	1.01	1.34	3,110	6.88E+03	2.79
PCB-28/20 244' / 233' -TrCB	22.91	C	0.8670	0.8664	-0.8	6.65E+07	1.01	1.25	3,010	6.88E+03	2.99
PCB-21/33 234'/23'4'-TrCB	23.12	C	0.8738	0.8744	+0.8	2.03E+07	1.00	1.29	893	6.88E+03	2.91
PCB-22 234'-TrCB	23.48		0.8880	0.8878	-0.3	1.76E+07	1.00	1.20	832	6.88E+03	3.12
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	6.88E+03	2.84
PCB-39 34'5'-TrCB	25.23		0.9522	0.9541	+2.9	6.97E+05	0.99	1.36	29.1	6.88E+03	2.76
PCB-38 345-TrCB	25.72	J	0.9723	0.9725	+0.3	1.50E+05	0.98	1.21	7.03	6.88E+03	3.09
PCB-35 33'4'-TrCB	26.10		0.9871	0.9871	0	8.25E+05	0.98	1.16	40.5	6.88E+03	3.24
PCB-37 344'-TrCB	26.47		1.0007	1.0009	+0.3	1.01E+07	1.04	1.08	534	6.88E+03	3.48
PCB-54 22'66'-TeCB	20.43		1.0010	1.0011	+0.1	2.23E+05	0.72	1.35	15.4	1.91E+03	1.17
PCB-50/53 22'46'/22'56'-TeCB	22.39	C	0.9145	0.9134	-1.5	1.30E+07	0.79	0.92	945	2.26E+03	1.63
PCB-45 22'36'-TeCB	23.00		0.9383	0.9385	+0.3	1.17E+07	0.77	0.80	979	2.26E+03	1.89
PCB-51 22'46'-TeCB	23.08		0.9413	0.9416	+0.4	2.73E+06	0.78	0.93	198	2.26E+03	1.63
PCB-46 22'36'-TeCB	23.28		0.9499	0.9499	0	4.07E+06	0.81	0.73	373	2.26E+03	2.06
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	7.79E+07	0.79	0.89	5,850	2.26E+03	1.69
PCB-73 23'5'6'-TeCB	24.65	J	1.0062	1.0059	-0.4	1.79E+05	0.84	1.18	10.2	2.26E+03	1.28
PCB-43 22'35'-TeCB	24.76		1.0101	1.0101	0	2.15E+06	0.78	0.77	188	2.26E+03	1.96
PCB-69/49 23'46'/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	4.66E+07	0.79	1.10	2,850	2.26E+03	1.38
PCB-48 22'45'-TeCB	25.23		1.0295	1.0296	+0.2	1.35E+07	0.80	0.91	1,000	2.26E+03	1.67
PCB-44/47/65 ...-TeCB	25.42	C	1.0384	1.0374	-1.5	6.99E+07	0.78	0.96	4,870	2.26E+03	1.57
PCB-59/62/75 ...-TeCB	25.72	C	1.0496	1.0492	-0.6	6.72E+06	0.78	1.25	362	2.26E+03	1.21
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	1.52E+07	0.79	0.83	1,230	2.26E+03	1.82
PCB-41 22'34'-TeCB	26.22		1.0698	1.0700	+0.3	4.82E+06	0.79	0.73	444	2.26E+03	2.07
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	2.98E+07	0.79	0.93	2,150	2.26E+03	1.63
PCB-64 234'6'-TeCB	26.52		1.0819	1.0820	+0.2	3.80E+07	0.80	1.32	1,940	2.26E+03	1.15
PCB-72 23'55'-TeCB	27.23		0.8436	0.8434	-0.3	4.00E+05	0.86	1.29	20.8	5.86E+03	3.03
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	5.63E+05	0.89	1.37	27.7	5.86E+03	2.86
PCB-57 233'5'-TeCB	27.86		0.8630	0.8629	-0.2	2.70E+05	0.85	1.23	14.7	5.86E+03	3.18
PCB-58 233'5'-TeCB	28.06	J	0.8693	0.8691	-0.3	1.36E+05	0.80	1.26	7.23	5.86E+03	3.1
PCB-67 23'45'-TeCB	28.22		0.8741	0.8740	-0.2	1.55E+06	0.78	1.31	79.5	5.86E+03	2.99
PCB-63 234'5'-TeCB	28.45		0.8811	0.8810	-0.2	2.43E+06	0.82	1.36	120	5.86E+03	2.88
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8902	0	1.12E+08	0.79	1.24	6,050	5.86E+03	3.14
PCB-66 23'44'-TeCB	29.02		0.8989	0.8987	-0.3	6.38E+07	0.79	1.17	3,670	5.86E+03	3.35
PCB-55 233'4'-TeCB	29.17		0.9034	0.9034	0	5.97E+05	0.78	1.17	34.1	5.86E+03	3.33
PCB-56 233'4'-TeCB	29.60		0.9169	0.9167	-0.4	3.05E+07	0.78	1.16	1,760	5.86E+03	3.36
PCB-60 2344'-TeCB	29.80		0.9229	0.9228	-0.2	1.38E+07	0.79	1.18	790	5.86E+03	3.33
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	5.86E+03	2.86
PCB-79 33'45'-TeCB	31.46		0.9737	0.9742	+0.9	5.51E+05	0.78	1.38	26.8	5.86E+03	2.84
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	5.86E+03	3.52
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.47E+03	0.986
PCB-96 22'366'-PeCB	25.72		1.0134	1.0134	0	6.42E+05	0.67	1.20	53.3	1.47E+03	1.18
PCB-103 22'45'6'-PeCB	27.41		0.8989	0.8988	-0.2	1.96E+05	0.65	0.95	16.6	3.88E+03	3.43
PCB-94 22'356'-PeCB	27.60		0.9051	0.9050	-0.2	2.54E+05	0.63	0.79	25.6	3.88E+03	4.08
PCB-95 22'35'6'-PeCB	27.98		0.9176	0.9175	-0.2	1.80E+07	0.62	0.86	1,670	3.88E+03	3.75

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.19	C	0.9246	0.9246	0	4.29E+05	0.63	0.88	39.3	3.88E+03	3.71
PCB-102 22'456"-PeCB	28.30		0.9282	0.9281	-0.2	1.49E+06	0.60	1.04	114	3.88E+03	3.11
PCB-98 22'34'6"-PeCB	28.38	J EMPC	0.9305	0.9307	+0.3	4.19E+04	0.50	0.73	4.61	3.88E+03	4.46
PCB-88 22'346"-PeCB	28.67		0.9403	0.9402	-0.2	1.56E+05	0.64	0.79	15.8	3.88E+03	4.1
PCB-91 22'34'6"-PeCB	28.74		0.9424	0.9424	0	4.68E+06	0.63	0.91	410	3.88E+03	3.55
PCB-84 22'33'6"-PeCB	28.93		0.9487	0.9487	0	7.05E+06	0.61	0.72	781	3.88E+03	4.49
PCB-89 22'346"-PeCB	29.35		0.9624	0.9625	+0.2	7.95E+05	0.59	0.76	83.3	3.88E+03	4.24
PCB-121 23'45'6"-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	3.88E+03	2.66
PCB-92 22'355"-PeCB	30.01		0.9841	0.9840	-0.2	3.41E+06	0.63	0.83	331	3.88E+03	3.93
PCB-113/90/101 ...-PeCB	30.51	C	0.9999	1.0007	+1.5	2.14E+07	0.62	0.98	1,750	3.88E+03	3.3
PCB-83 22'33'5"-PeCB	30.92		1.0142	1.0141	-0.2	1.15E+06	0.61	0.71	129	3.88E+03	4.54
PCB-99 22'44'5"-PeCB	31.02		1.0173	1.0174	+0.2	1.29E+07	0.62	0.91	1,140	3.88E+03	3.57
PCB-112 233'56"-PeCB	31.13	J	1.0206	1.0210	+0.7	1.25E+05	0.67	1.17	8.57	3.88E+03	2.77
PCB-108/119/86/97/125...-PeCB	31.50	C	1.0320	1.0329	+1.7	1.98E+07	0.62	1.00	1,600	3.88E+03	3.26
PCB-117 234'56"-PeCB	32.00		1.0495	1.0495	0	8.65E+05	0.62	1.05	66	3.88E+03	3.09
PCB-116/85 23456/22'344"-PeCB	32.08	C	1.0525	1.0521	-0.8	6.04E+06	0.62	0.98	492	3.88E+03	3.3
PCB-110 233'4'6"-PeCB	32.21		1.0561	1.0563	+0.4	3.01E+07	0.62	1.12	2,160	3.88E+03	2.91
PCB-115 2344'6"-PeCB	32.30		1.0590	1.0592	+0.4	1.08E+06	0.65	1.15	75.3	3.88E+03	2.83
PCB-82 22'33'4"-PeCB	32.49		1.0655	1.0656	+0.2	3.68E+06	0.64	0.69	426	3.88E+03	4.69
PCB-111 233'55"-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	3.88E+03	2.69
PCB-120 23'455"-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.88E+03	2.65
PCB-107/124 ...-PeCB	34.17	C	0.9916	0.9916	0	9.83E+05	0.62	1.10	71.9	3.88E+03	2.96
PCB-109 233'46"-PeCB	34.38		0.9976	0.9976	0	1.83E+06	0.61	1.24	118	3.88E+03	2.62
PCB-106 233'45"-PeCB	34.60	J	1.0038	1.0039	+0.2	4.58E+04	0.62	1.08	3.41	3.88E+03	3.01
PCB-122 233'4'5"-PeCB	35.06		1.0091	1.0091	0	4.52E+05	0.61	1.00	35.4	3.88E+03	3.08
PCB-127 33'455"-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	3.88E+03	2.81
PCB-155 22'44'66"-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.43E+03	0.836
PCB-152 22'3566"-HxCB	NotFnd		1.0060	-		0.00E+00		1.11	ND	1.43E+03	0.953
PCB-150 22'34'66"-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.43E+03	0.94
PCB-136 22'33'66"-HxCB	30.96		1.0207	1.0208	+0.2	1.17E+06	1.27	1.03	84.1	1.43E+03	1.03
PCB-145 22'3466"-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.43E+03	1
PCB-148 22'34'56"-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.43E+03	1.46
PCB-151/135 ...-HxCB	33.01	C	1.0886	1.0886	0	1.72E+06	1.24	1.06	177	1.43E+03	1.54
PCB-154 22'44'56"-HxCB	33.22	J	1.0954	1.0955	+0.2	8.83E+04	1.17	1.25	7.78	1.43E+03	1.31
PCB-144 22'345'6"-HxCB	33.49		1.1041	1.1044	+0.6	2.81E+05	1.21	1.10	28	1.43E+03	1.48
PCB-147/149 ...-HxCB	33.79	C	1.1141	1.1142	+0.2	4.43E+06	1.26	1.11	440	1.43E+03	1.48
PCB-134 22'33'56"-HxCB	33.96		1.1199	1.1200	+0.2	3.11E+05	1.16	0.79	43.4	1.43E+03	2.08
PCB-143 22'3456"-HxCB	34.04	J	1.1225	1.1225	0	4.93E+04	1.21	1.10	4.91	1.43E+03	1.48
PCB-139/140 ...-HxCB	34.30	J C	1.1312	1.1311	-0.2	1.59E+05	1.31	1.11	15.7	1.43E+03	1.47
PCB-131 22'33'46"-HxCB	34.49		1.1369	1.1372	+0.6	1.00E+05	1.10	0.94	11.7	1.43E+03	1.74
PCB-142 22'3456"-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.43E+03	1.77
PCB-132 22'33'46"-HxCB	34.86		1.1494	1.1497	+0.6	2.14E+06	1.27	0.97	243	1.43E+03	1.69
PCB-133 22'33'55"-HxCB	35.27	J	1.1626	1.1630	+0.8	8.59E+04	1.26	1.04	9.04	1.43E+03	1.57
PCB-165 233'55'6"-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.43E+03	1.25
PCB-146 22'34'55"-HxCB	35.82		0.9582	0.9581	-0.2	8.35E+05	1.25	1.14	80.5	1.43E+03	1.44
PCB-161 233'45'6"-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.43E+03	1.15
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9721	-1.5	5.25E+06	1.25	1.39	416	1.43E+03	1.18
PCB-141 22'3455"-HxCB	36.51		0.9766	0.9766	0	1.04E+06	1.22	1.03	111	1.43E+03	1.58



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.86		0.9859	0.9859	0	4.02E+05	1.31	0.92	48.1	1.43E+03	1.78
PCB-137 22'344'5'-HxCB	37.06		0.9911	0.9912	+0.2	4.06E+05	1.15	1.14	39.3	1.43E+03	1.44
PCB-164 233'4'5'6'-HxCB	37.14		0.9933	0.9934	+0.2	5.28E+05	1.19	1.38	42	1.43E+03	1.19
PCB-163/138/129 ...-HxCB	37.41	C	1.0011	1.0007	-0.9	6.90E+06	1.27	1.11	682	1.43E+03	1.47
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.43E+03	1.26
PCB-158 233'44'6'-HxCB	37.75		1.0096	1.0096	0	9.00E+05	1.25	1.50	66.2	1.43E+03	1.09
PCB-128/166 ...-HxCB	38.49	C	0.9641	0.9642	+0.2	1.26E+06	1.22	0.89	120	1.85E+03	1.84
PCB-159 233'455'-HxCB	39.28	J	0.9844	0.9840	-0.9	5.51E+04	1.21	1.07	4.39	1.85E+03	1.53
PCB-162 233'4'55'-HxCB	39.54	J	0.9903	0.9904	+0.2	3.13E+04	1.41	1.06	2.51	1.85E+03	1.54
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.07E+03	0.88
PCB-179 22'33'566'-HpCB	35.51		1.0086	1.0087	+0.2	3.69E+05	1.13	1.08	36.8	1.07E+03	1.03
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.07E+03	1.09
PCB-176 22'33'466'-HpCB	36.26	J	1.0300	1.0302	+0.4	1.07E+05	1.10	1.14	10.2	1.07E+03	0.98
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.07E+03	1.05
PCB-178 22'33'55'6'-HpCB	37.78		1.0733	1.0733	0	1.19E+05	0.97	0.76	16.9	1.07E+03	1.47
PCB-175 22'33'45'6'-HpCB	38.33	J	1.0887	1.0890	+0.7	3.58E+04	1.04	1.08	3.98	1.53E+03	1.7
PCB-187 22'34'55'6'-HpCB	38.56		1.0952	1.0954	+0.5	9.47E+05	1.04	1.15	99	1.53E+03	1.6
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.53E+03	1.54
PCB-183 22'344'5'6'-HpCB	39.08		1.1101	1.1102	+0.2	4.54E+05	1.05	1.22	44.7	1.53E+03	1.5
PCB-185 22'3455'6'-HpCB	39.15	J	1.1125	1.1123	-0.5	7.16E+04	1.04	1.03	8.33	1.53E+03	1.78
PCB-174 22'33'456'-HpCB	39.27		1.1156	1.1158	+0.5	6.93E+05	1.02	0.98	84.8	1.53E+03	1.87
PCB-177 22'33'45'6'-HpCB	39.65		1.1262	1.1264	+0.5	3.95E+05	0.92	0.95	50.1	1.53E+03	1.94
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.53E+03	1.72
PCB-171/173 ...-HpCB	40.19	C	1.1413	1.1416	+0.7	2.21E+05	0.97	0.95	28.1	1.53E+03	1.94
PCB-172 22'33'455'-HpCB	41.53		0.9080	0.9079	-0.2	1.18E+05	1.05	0.97	14.6	1.53E+03	1.89
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.53E+03	1.45
PCB-180/193 ...-HpCB	42.08	C	0.9194	0.9200	+1.5	1.65E+06	1.07	1.24	160	1.53E+03	1.48
PCB-191 233'44'5'6'-HpCB	42.38	J	0.9266	0.9265	-0.3	4.08E+04	1.18	1.35	3.63	1.53E+03	1.36
PCB-170 22'33'44'5'-HpCB	43.15		0.9434	0.9434	0	6.59E+05	1.12	1.14	85	1.53E+03	1.99
PCB-190 233'44'56-HpCB	43.61		0.9533	0.9533	0	1.68E+05	0.93	1.56	15.8	1.53E+03	1.46
PCB-202 22'33'55'66'-OoCB	39.75		1.0005	1.0005	0	1.02E+05	0.90	1.05	11.2	1.41E+03	1.6
PCB-201 22'33'45'66'-OoCB	40.54	J	1.0203	1.0203	0	5.84E+04	0.77	1.13	5.92	1.41E+03	1.48
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.41E+03	1.59
PCB-197 22'33'44'66'-OoCB	41.30	J EMPC	1.0396	1.0394	-0.5	2.02E+04	1.41	1.13	2.05	1.41E+03	1.49
PCB-200 22'33'4566'-OoCB	41.41	J EMPC	1.0418	1.0421	+0.7	3.88E+04	0.66	1.07	4.15	1.41E+03	1.57
PCB-198/199 ...-OoCB	43.74	C	1.1001	1.1007	+1.6	2.80E+05	0.99	0.72	44.6	1.41E+03	2.34
PCB-196 22'33'44'56'-OoCB	44.30		1.1146	1.1148	+0.5	1.13E+05	0.87	0.76	17	1.41E+03	2.2
PCB-203 22'344'55'6-OoCB	44.46		1.1188	1.1190	+0.5	1.58E+05	0.82	0.77	23.5	1.41E+03	2.18
PCB-195 22'33'44'56-OoCB	45.58		0.9516	0.9515	-0.3	7.71E+04	0.82	0.80	14	1.73E+03	3.16
PCB-194 22'33'44'55'-OoCB	47.53		0.9921	0.9921	0	1.94E+05	0.84	0.85	33	1.73E+03	2.95
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.73E+03	2.37
PCB-208 22'33'455'66'-NoCB	45.38	EMPC	1.0005	1.0005	0	1.12E+05	0.98	1.12	12.6	3.04E+03	3.59
PCB-207 22'33'44'566'-NoCB	46.17		1.0178	1.0178	0	1.18E+05	0.82	1.13	13.1	3.04E+03	3.56
PCB-206 22'33'44'55'6-NoCB	49.39		1.0004	1.0004	0	1.28E+05	0.82	1.11	24	3.04E+03	5.82

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Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-2SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 49

Acq: 27-Mar-2014 14:18:19  
User: LKB Datafile: 140327X05



SGS-AP ID: A6506\_11899\_PCB\_001  
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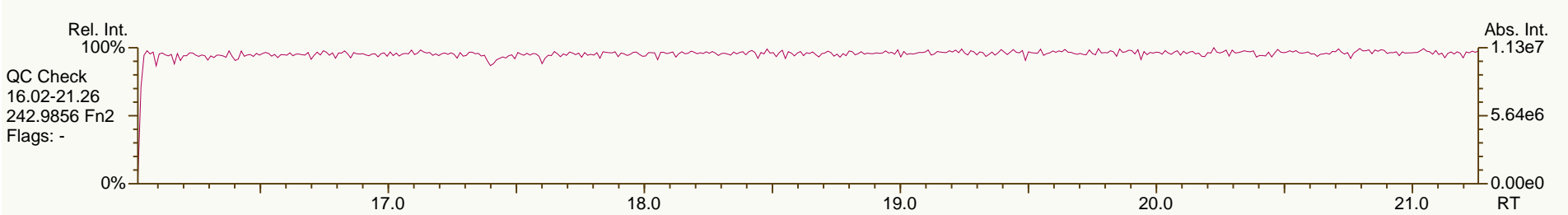
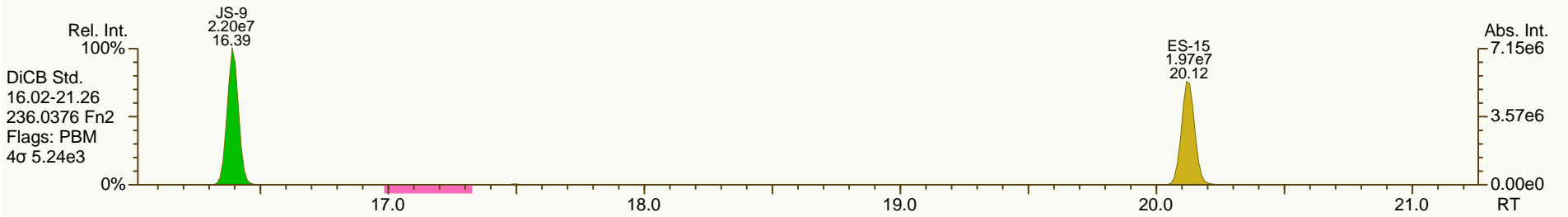
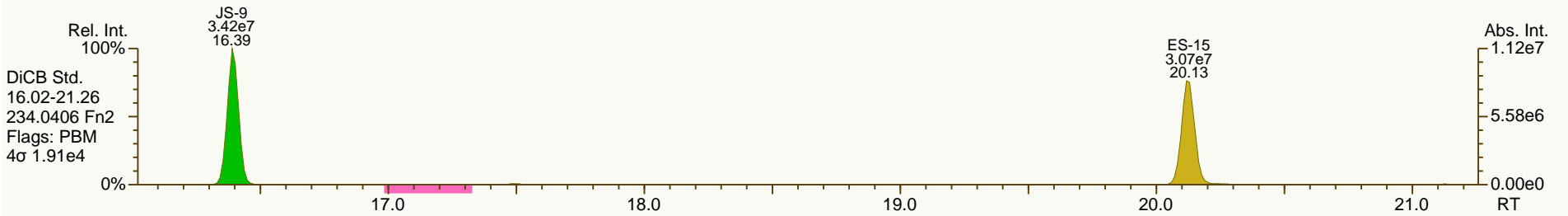
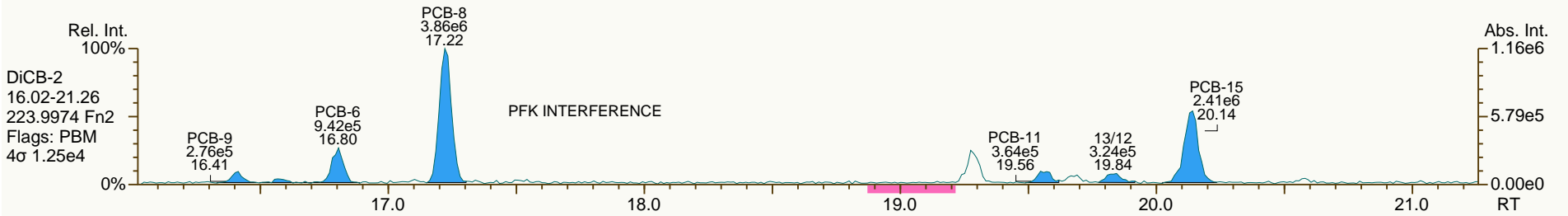
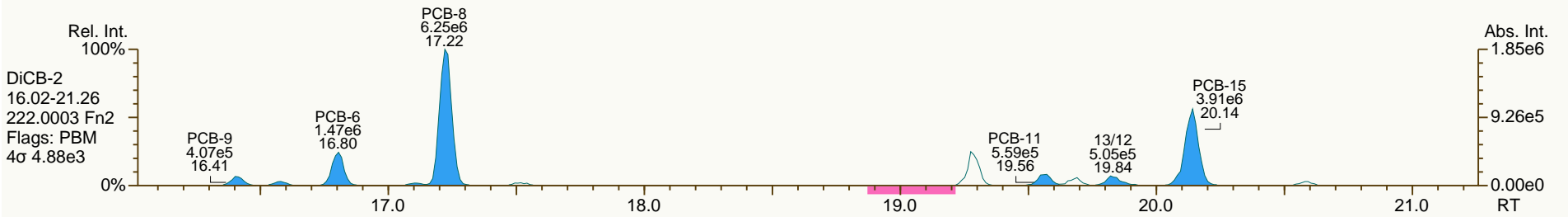
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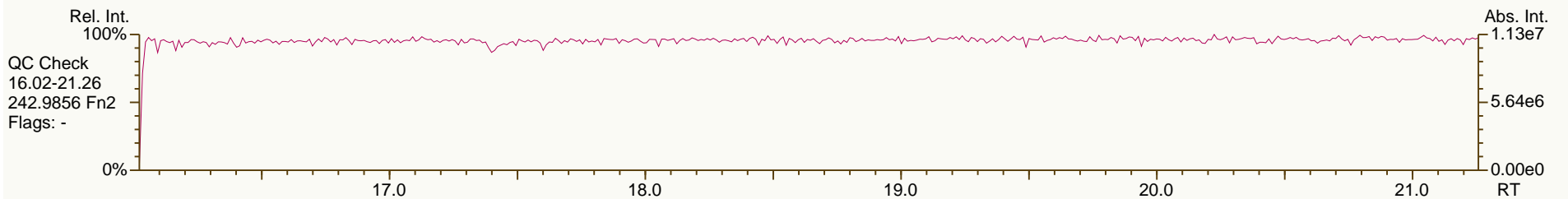
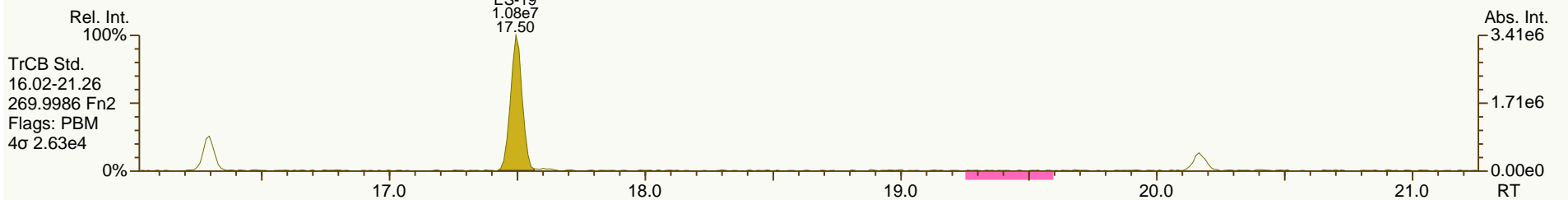
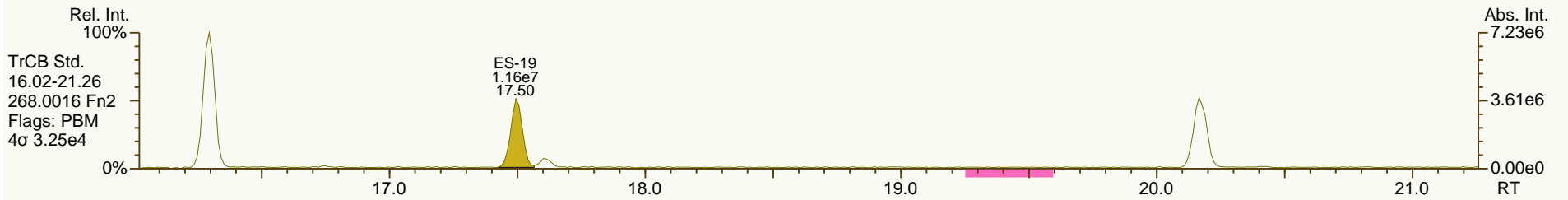
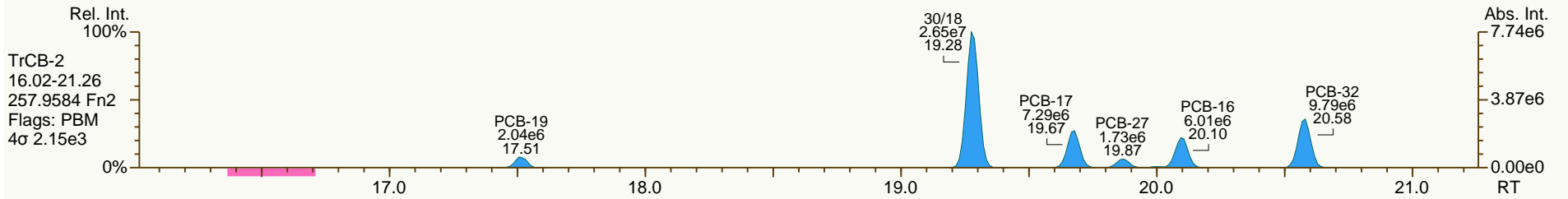
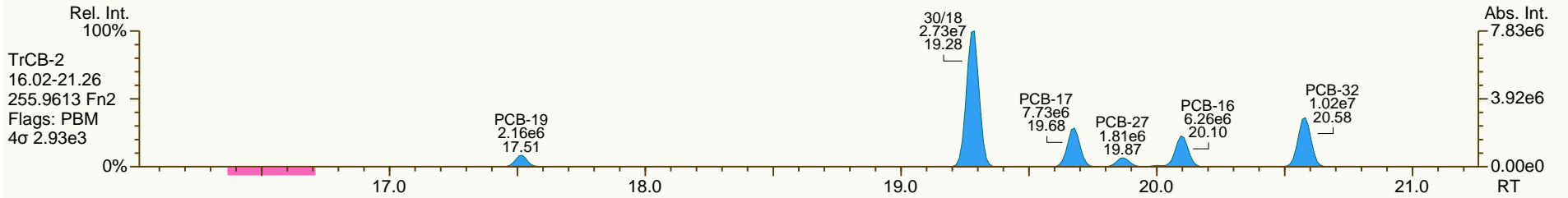
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Sample ID: PB070\_B-2SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 49

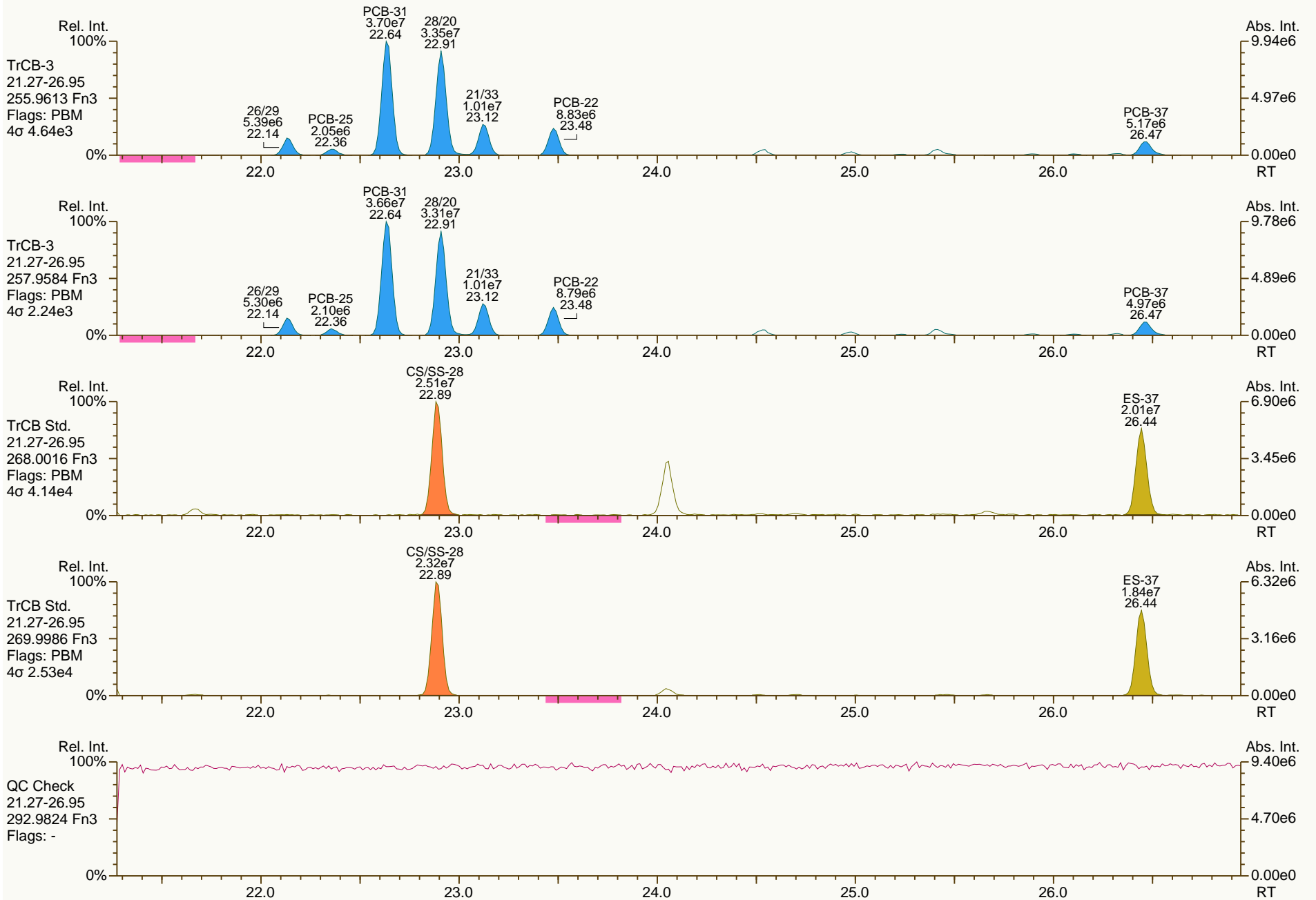
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SGS-AP ID: A6506\_11899\_PCB\_001  
 Instr: AutoSpec-Premier MM7

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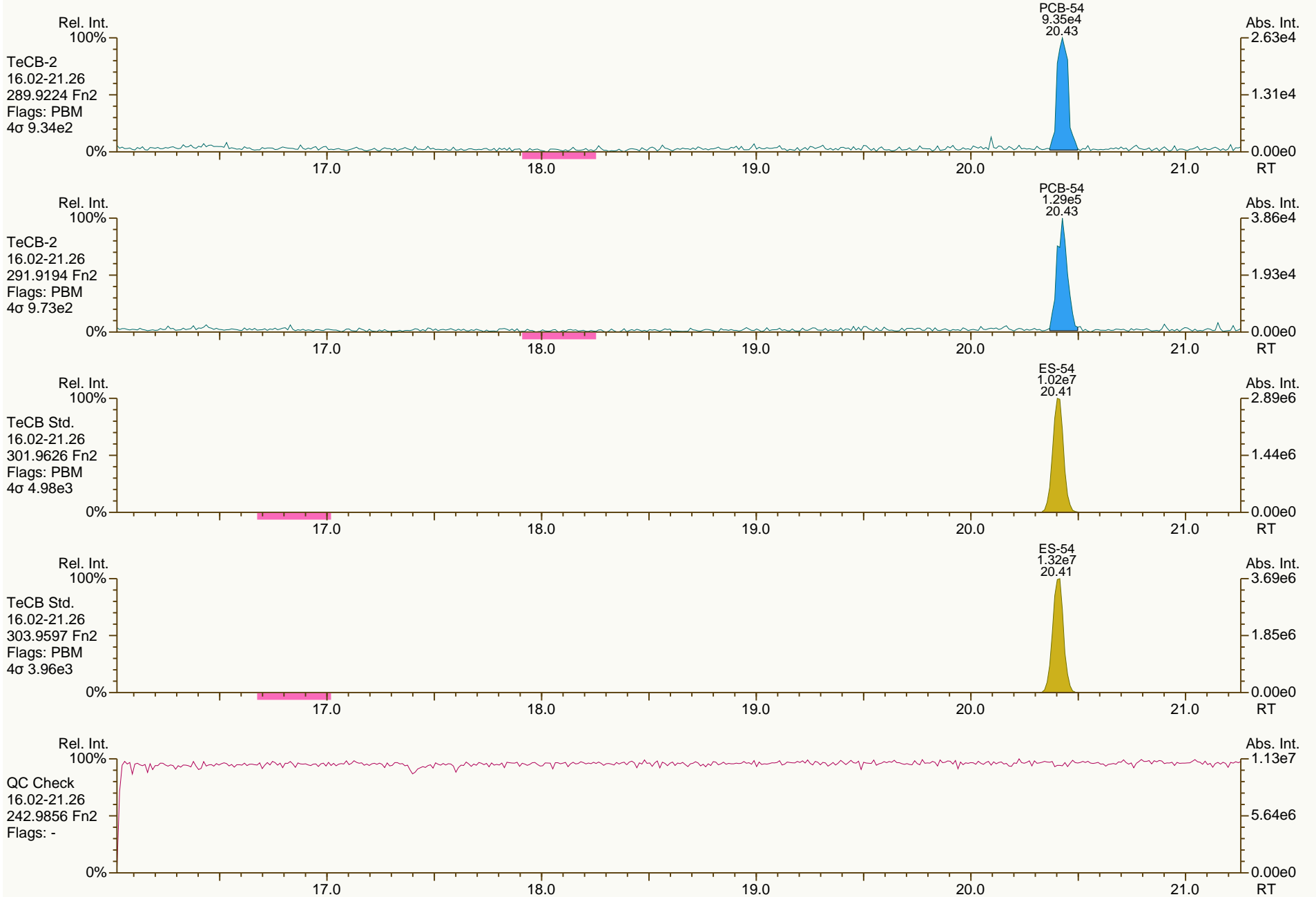
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SGS-AP ID: A6506\_11899\_PCB\_001  
 Instr: AutoSpec-Premier MM7

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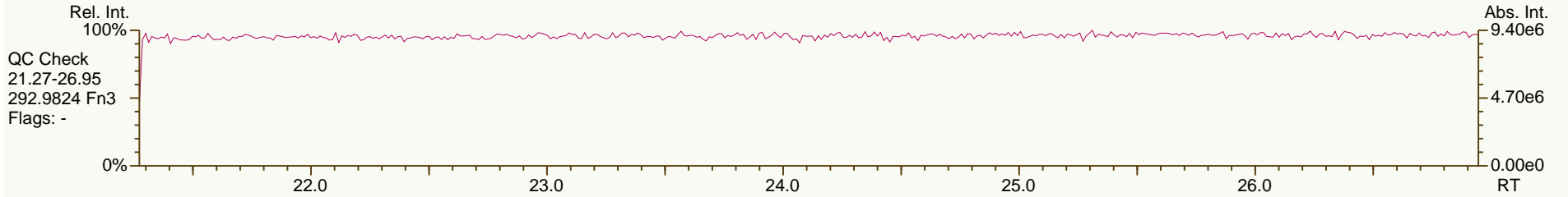
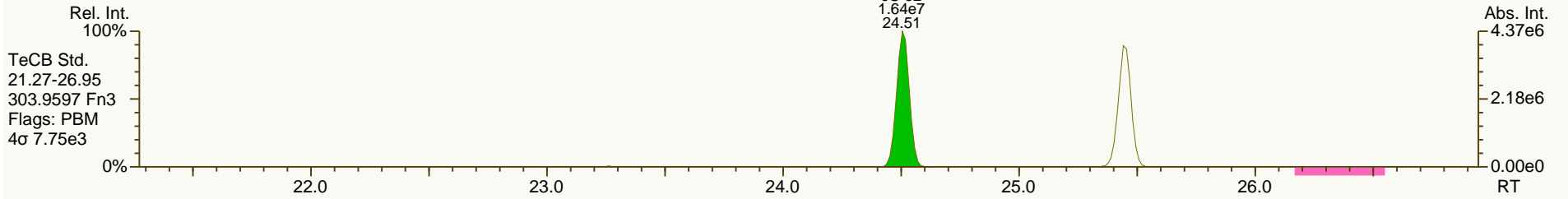
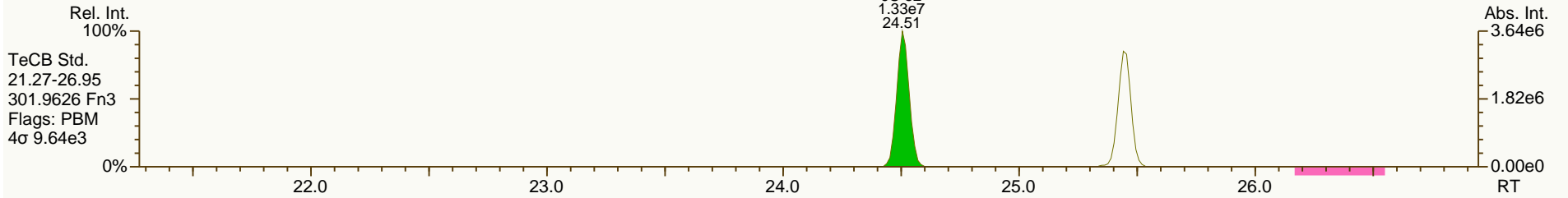
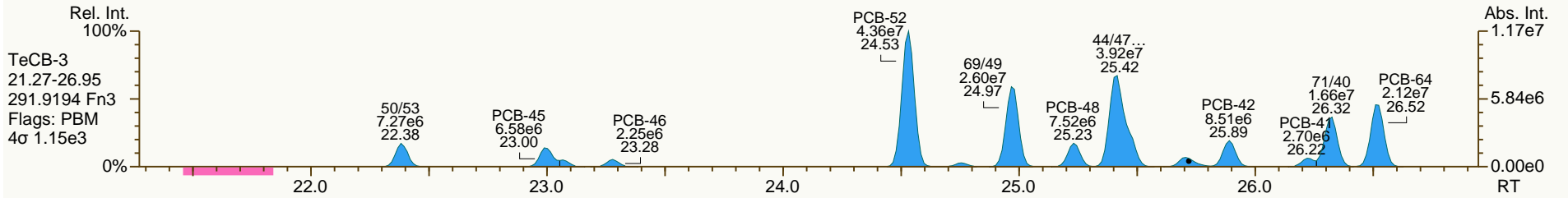
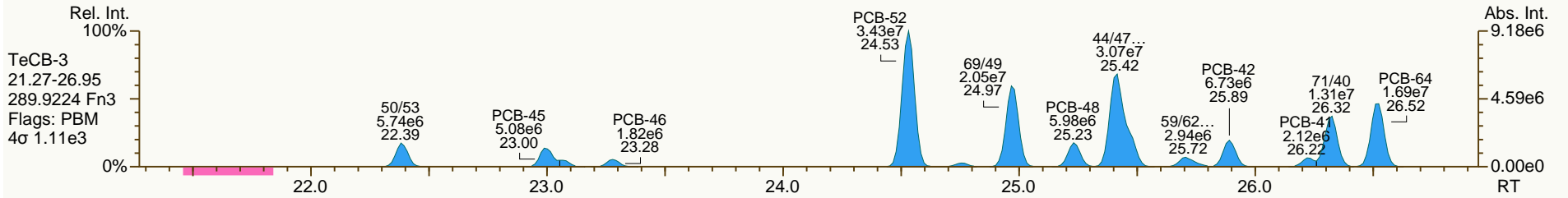




SGS-AP ID: A6506\_11899\_PCB\_001  
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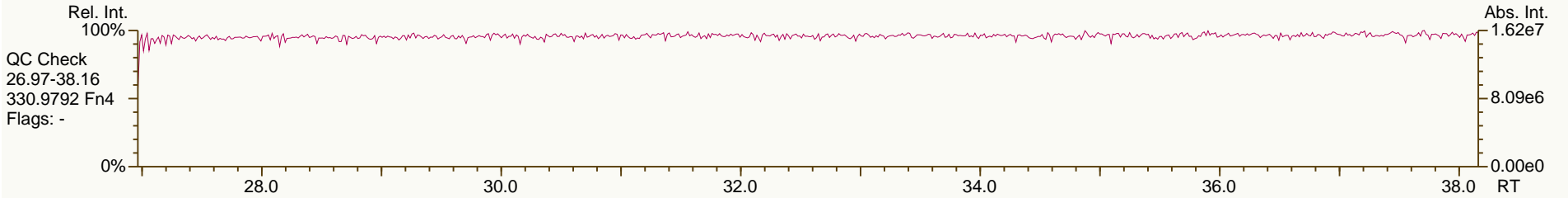
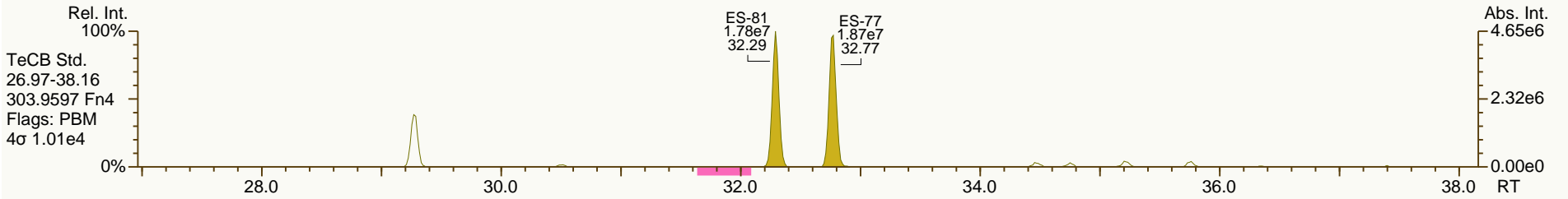
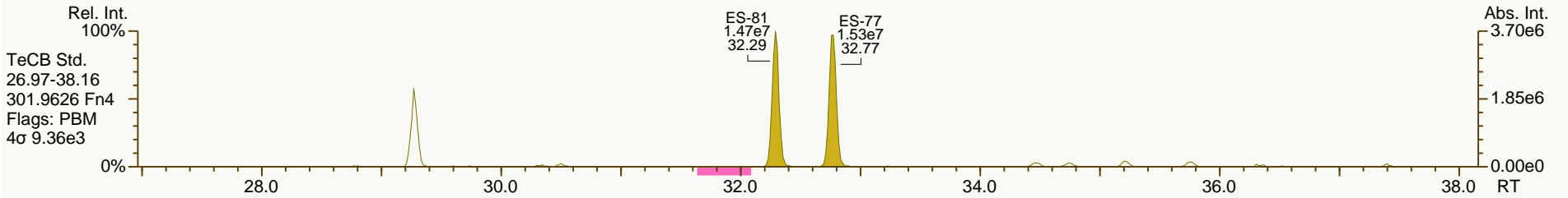
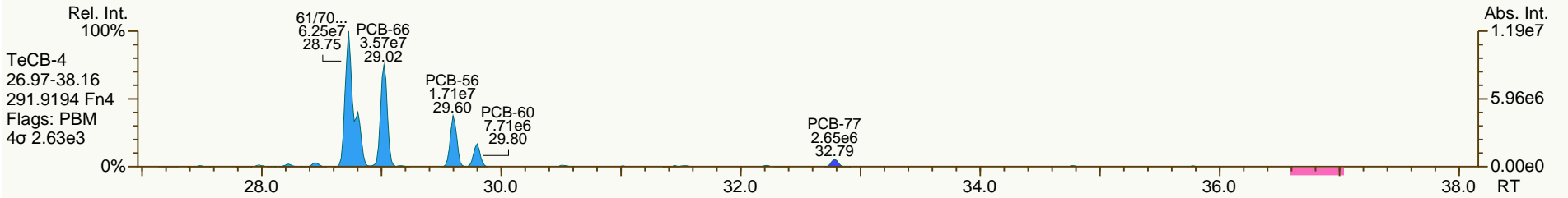
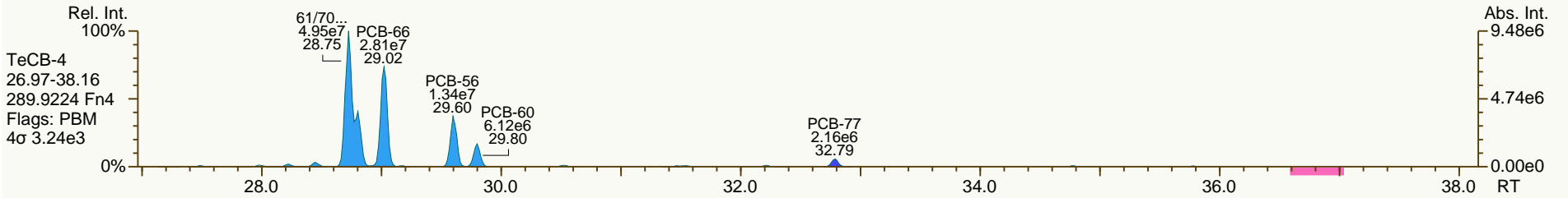
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 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-2SWMID-140314-N (TOTAL)  
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SGS-AP ID: A6506\_11899\_PCB\_001  
 Instr: AutoSpec-Premier MM7

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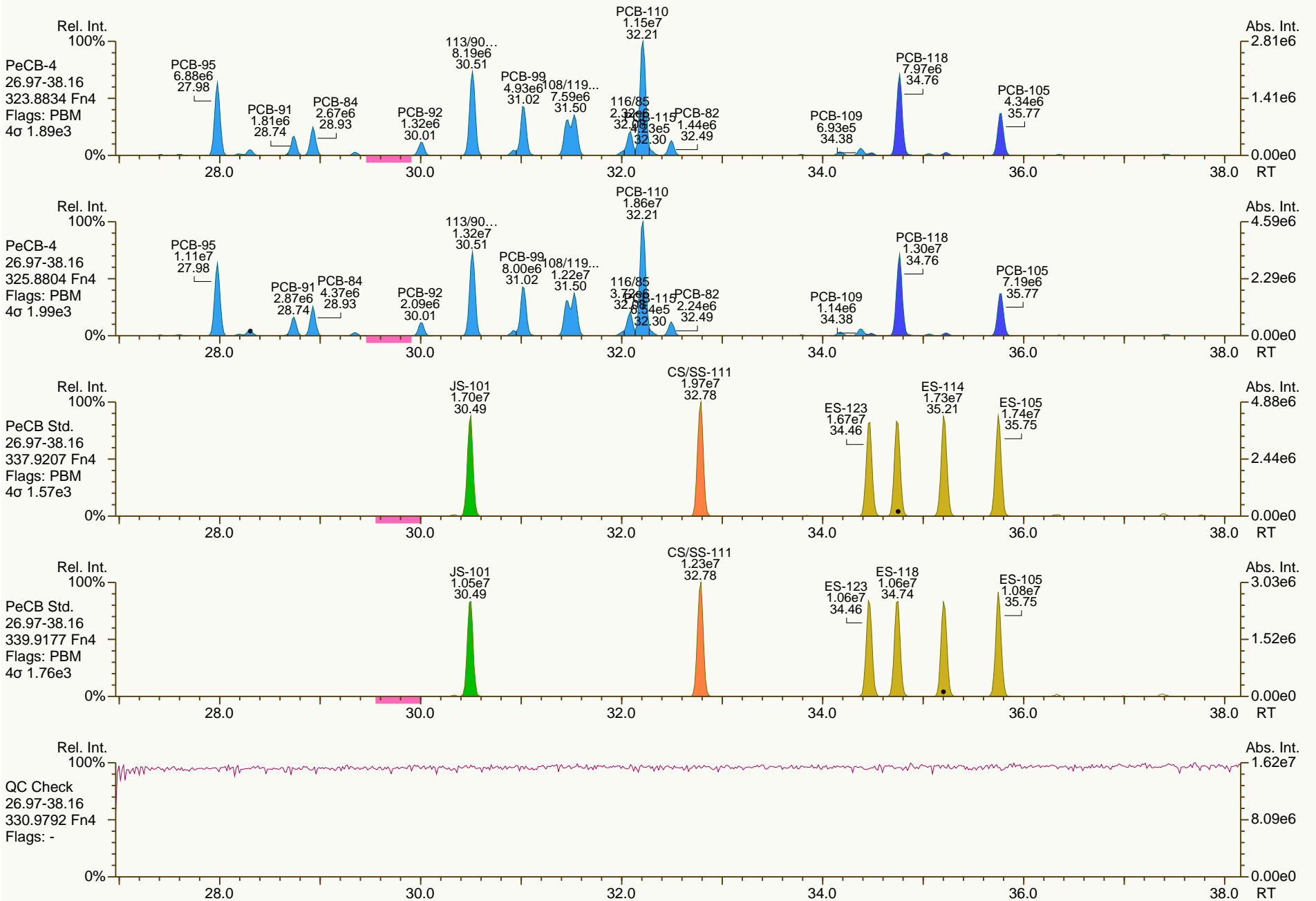
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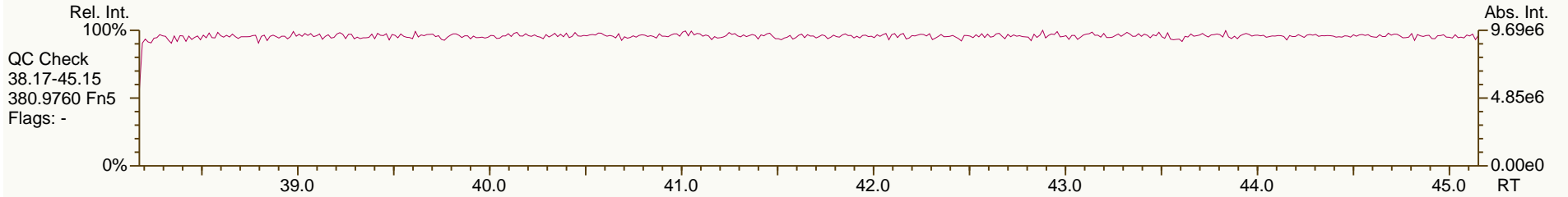
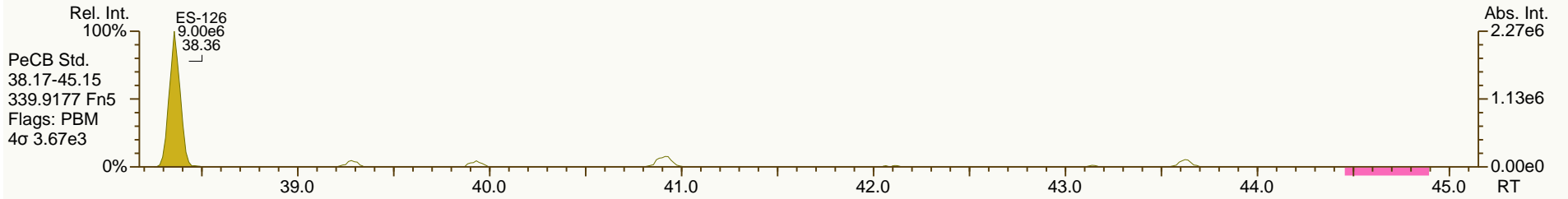
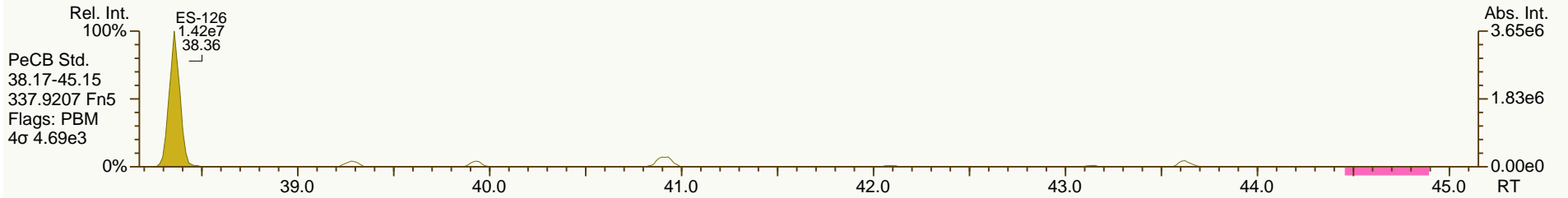
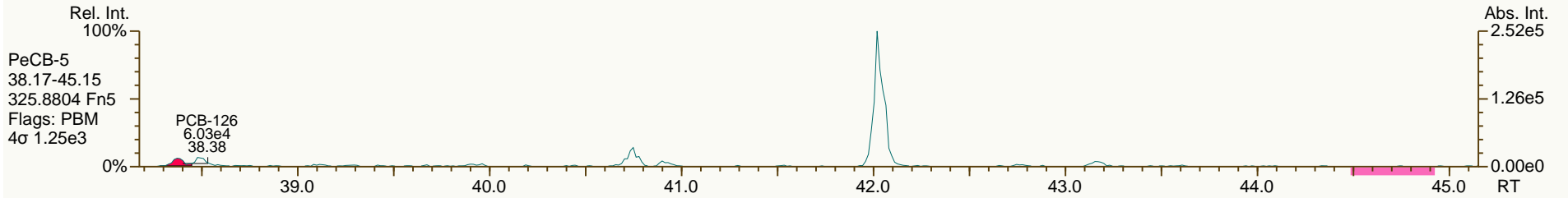
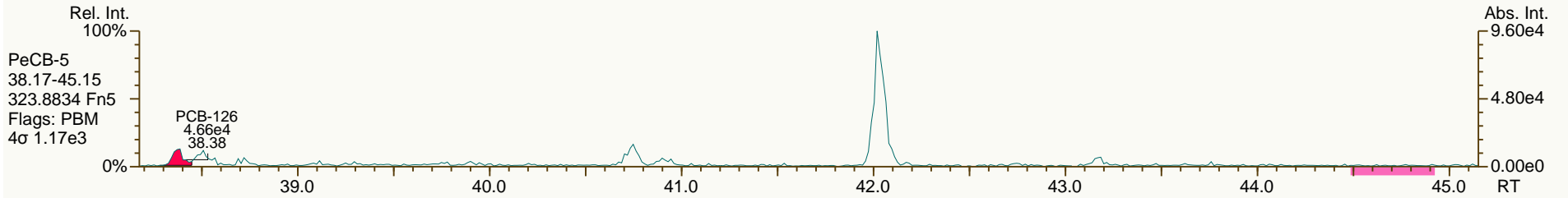
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SGS-AP ID: A6506\_11899\_PCB\_001  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-2SWMID-140314-N (TOTAL)  
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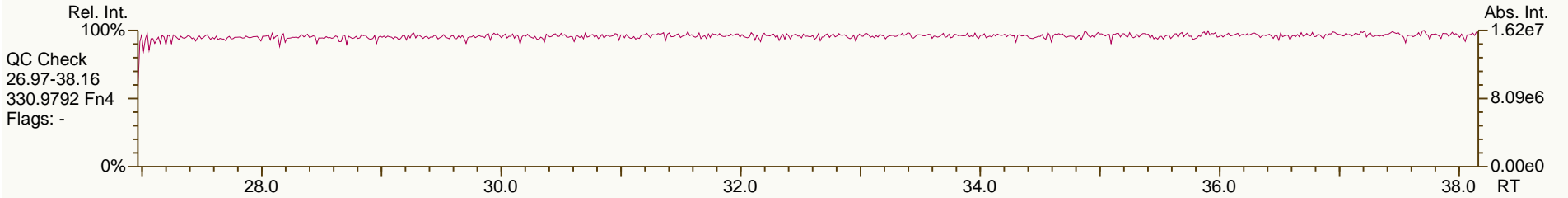
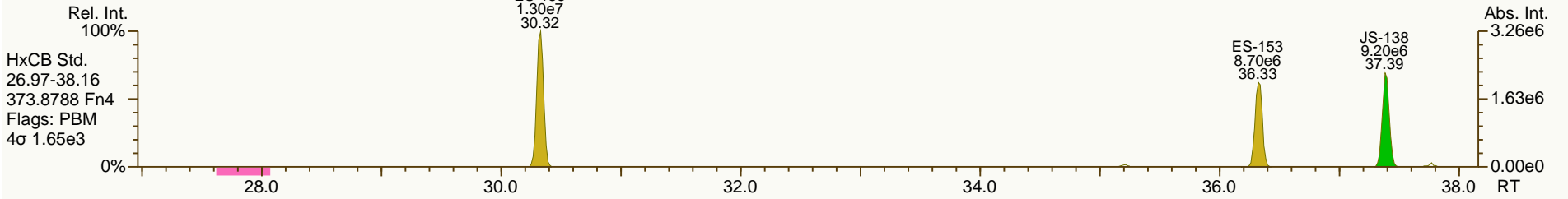
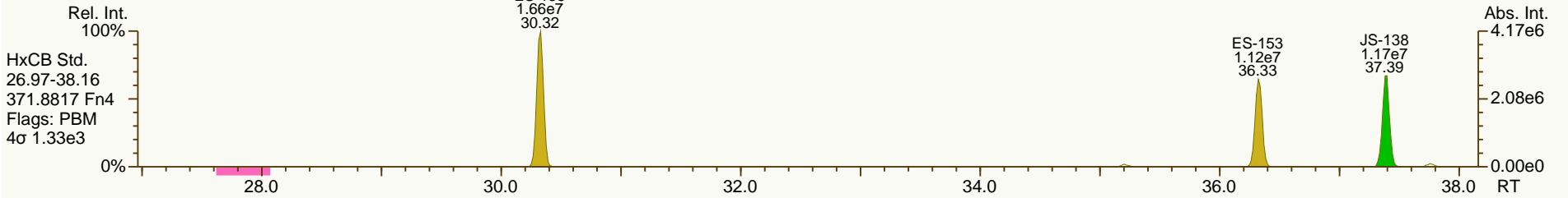
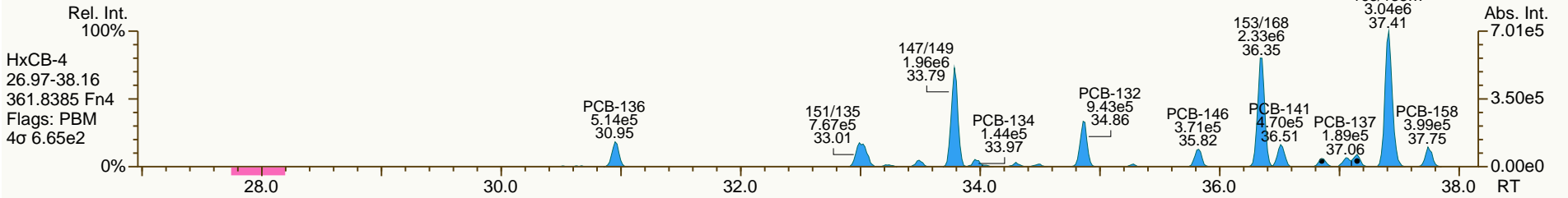
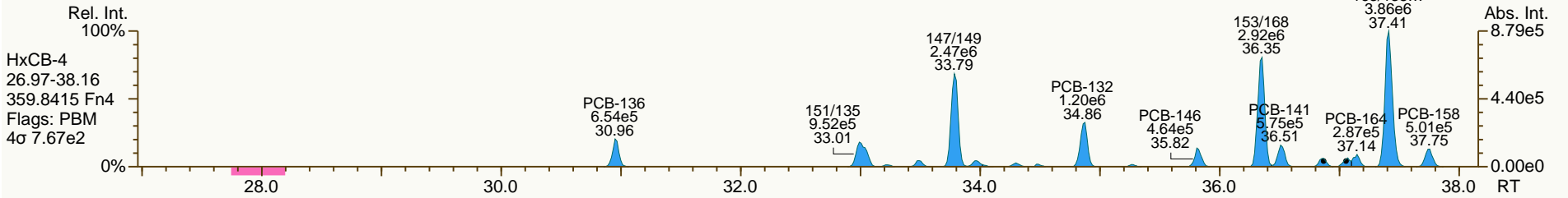
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SGS-AP ID: A6506\_11899\_PCB\_001  
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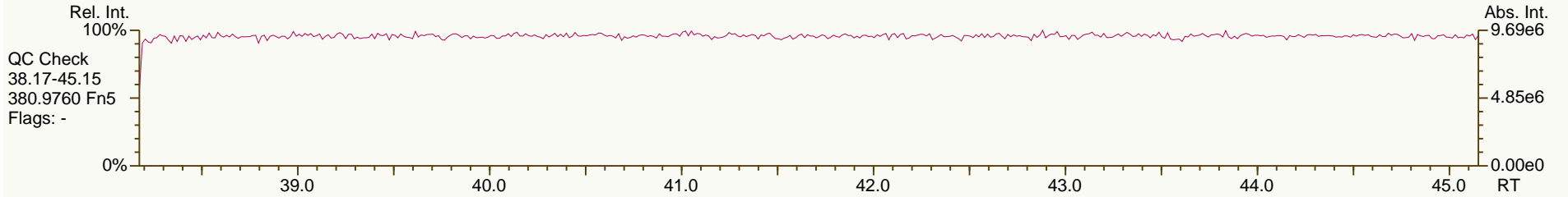
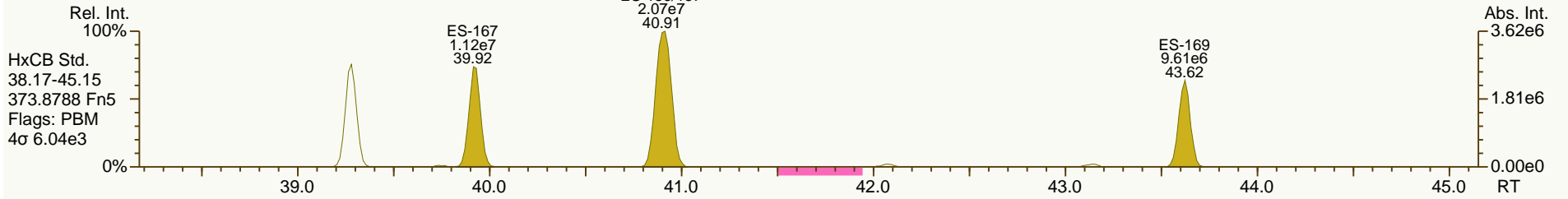
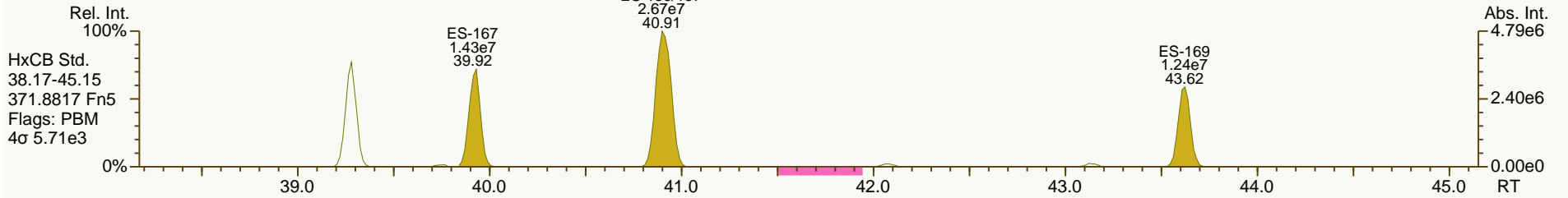
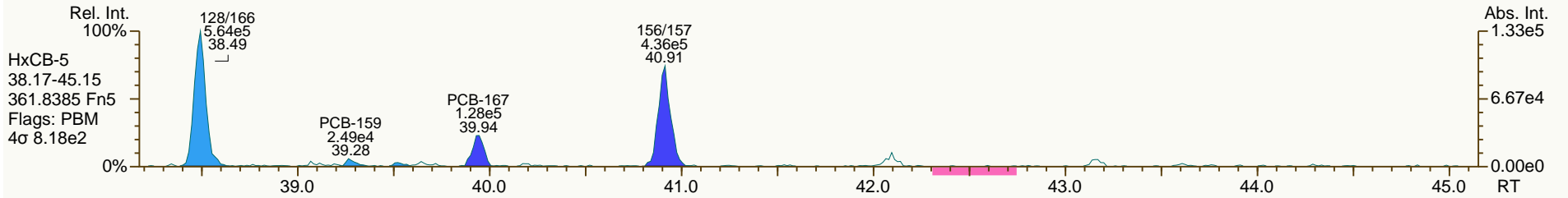
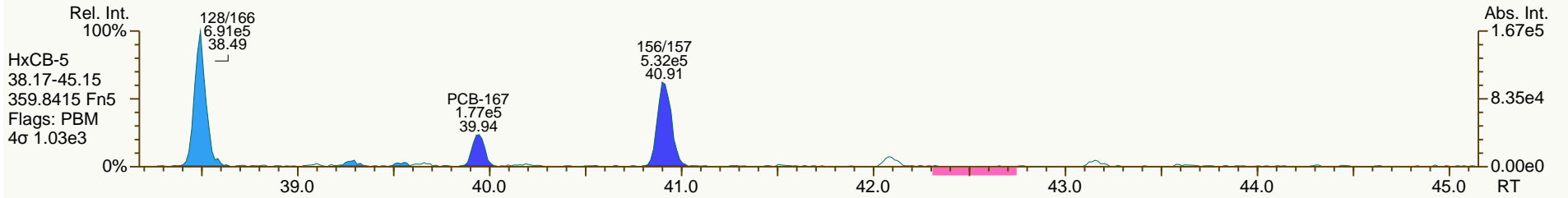
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SGS-AP ID: A6506\_11899\_PCB\_001  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-2SWMID-140314-N (TOTAL)  
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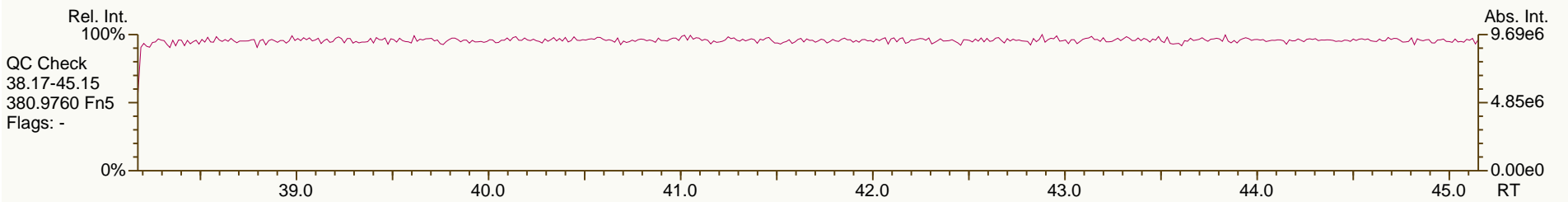
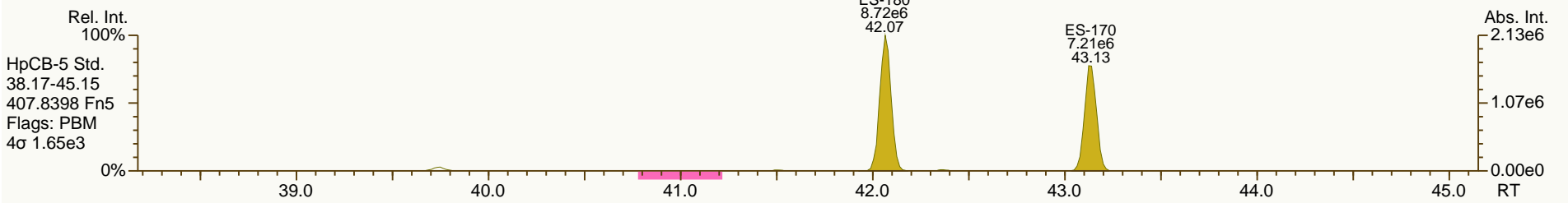
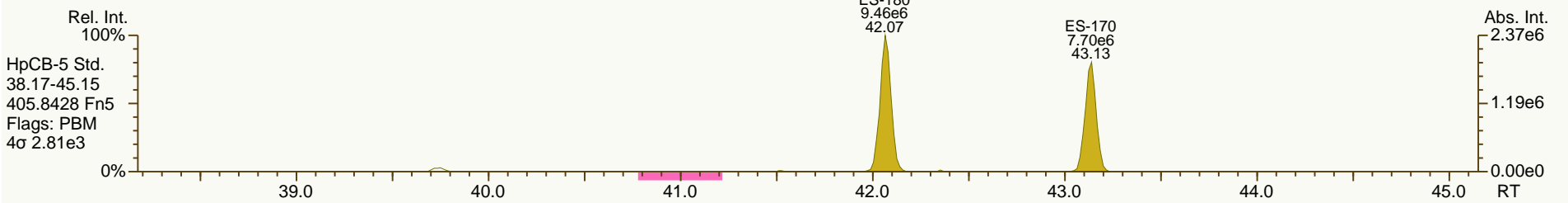
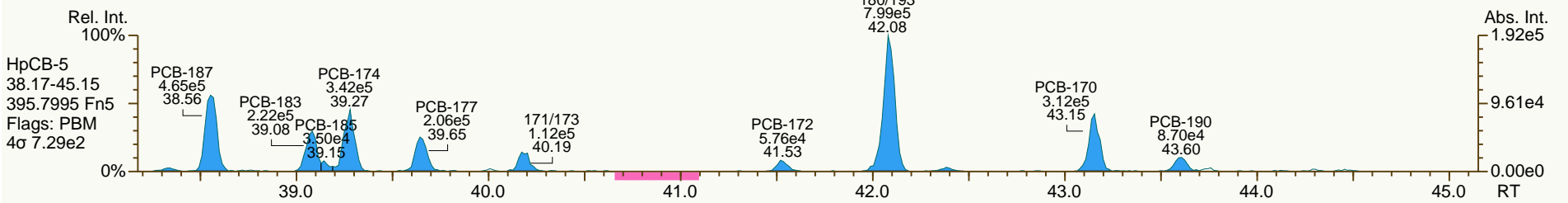
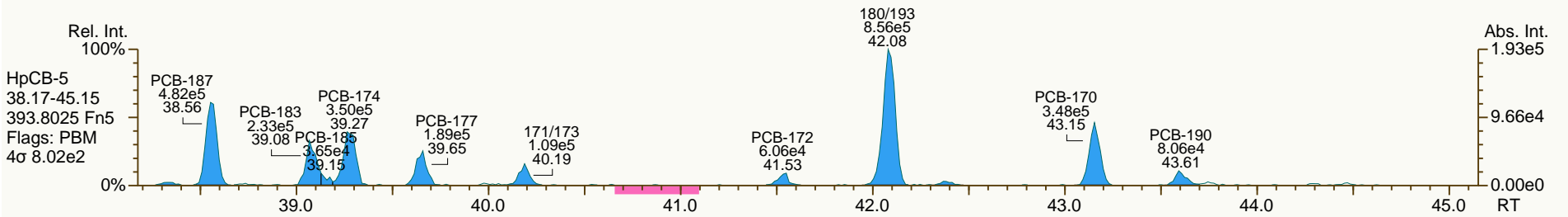




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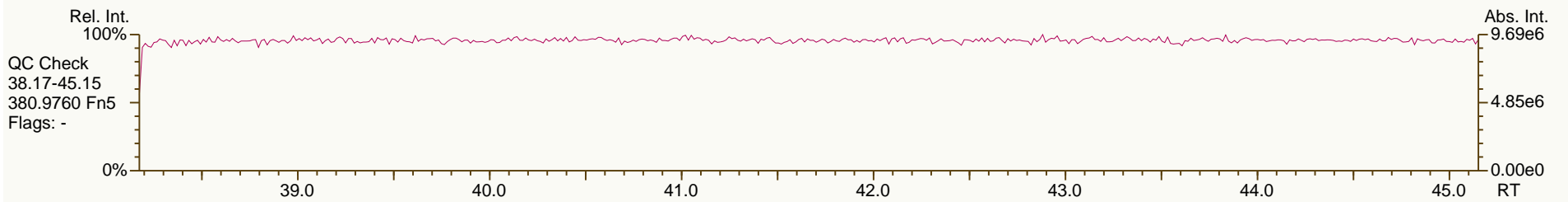
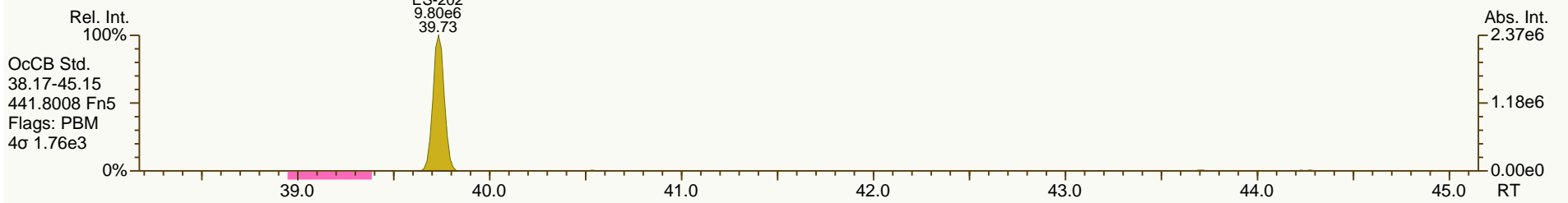
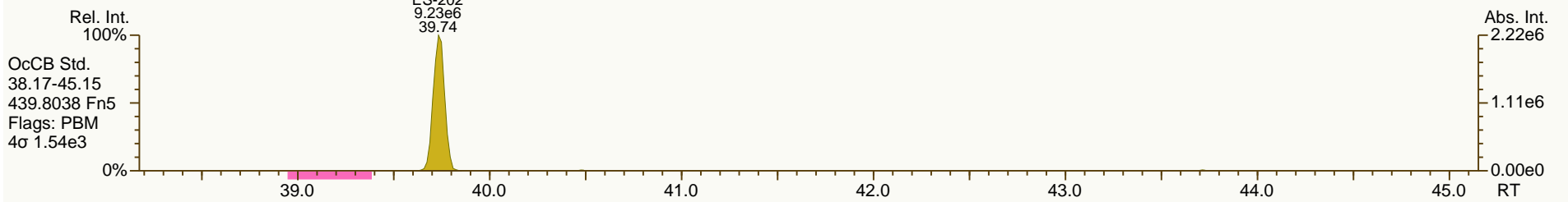
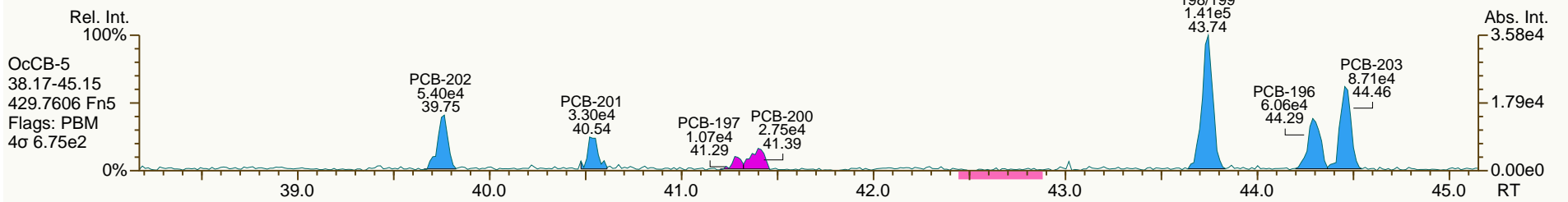
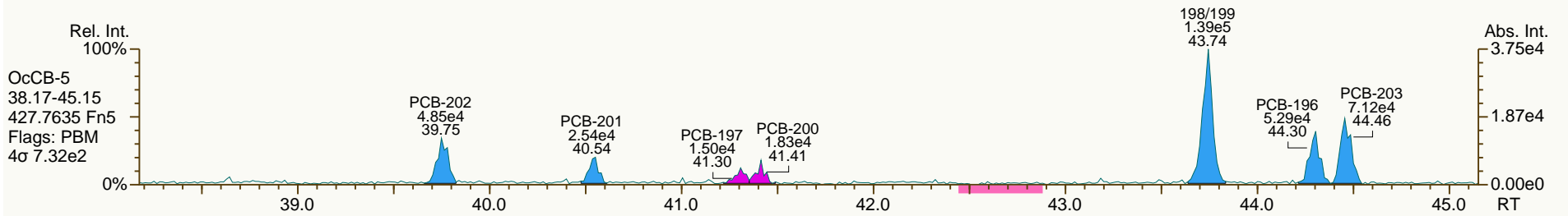
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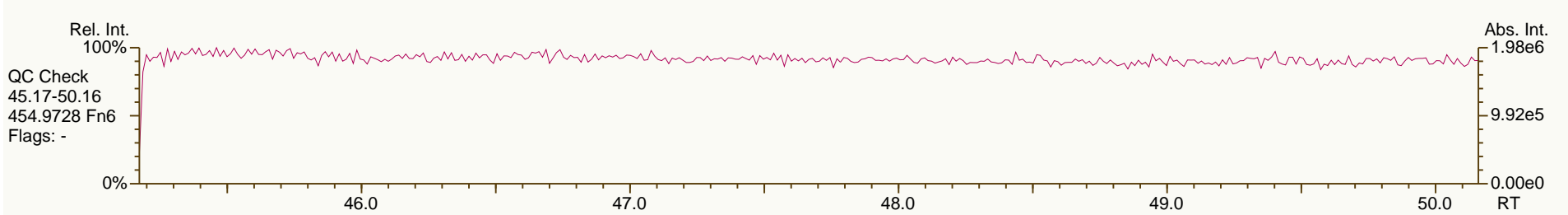
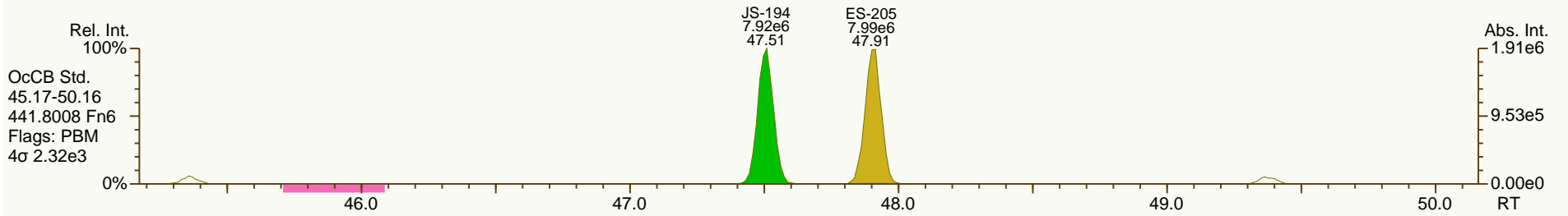
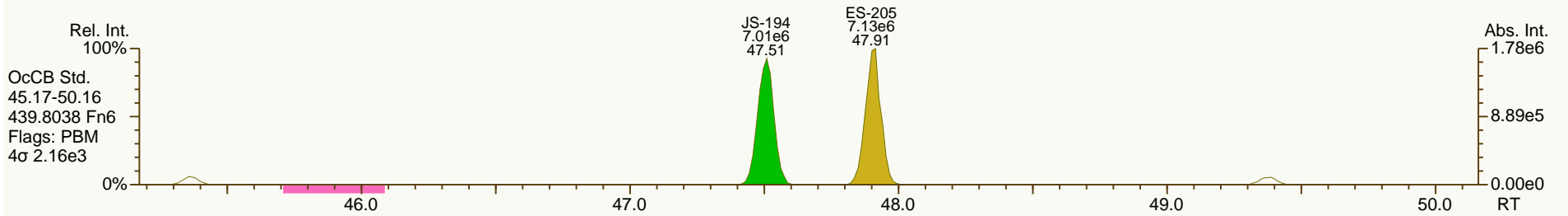
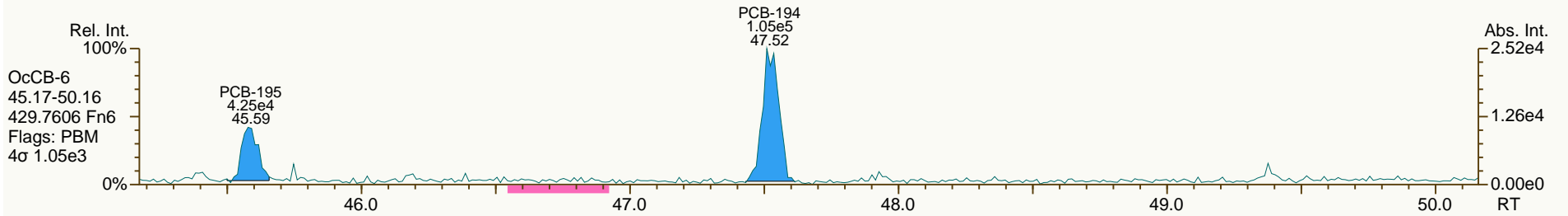
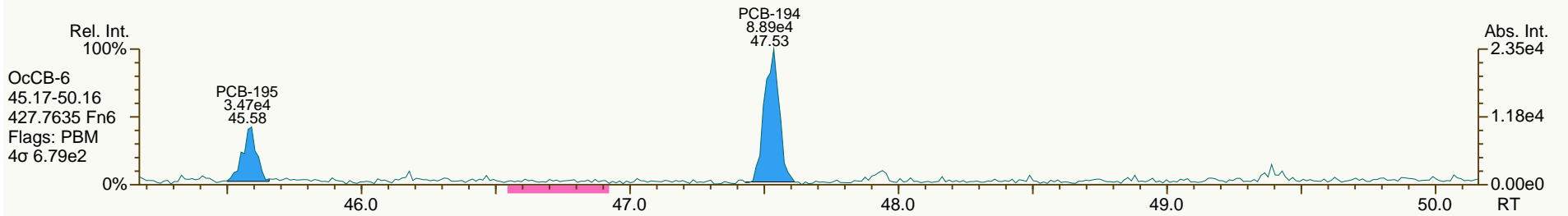
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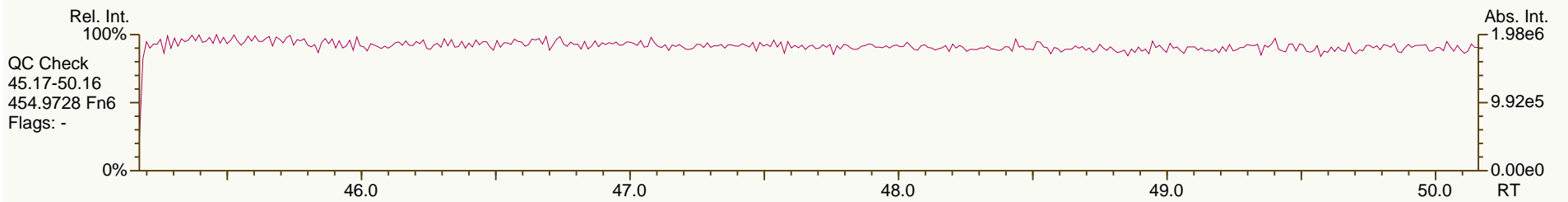
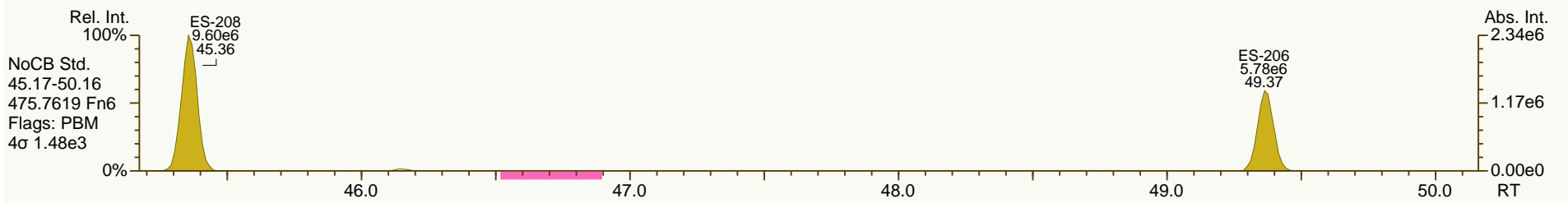
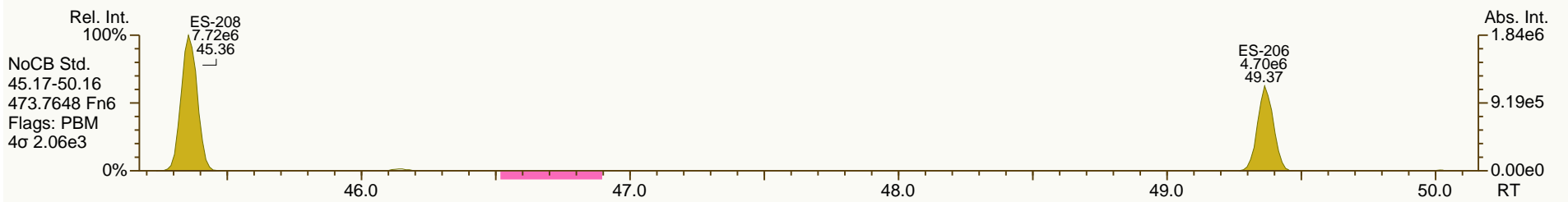
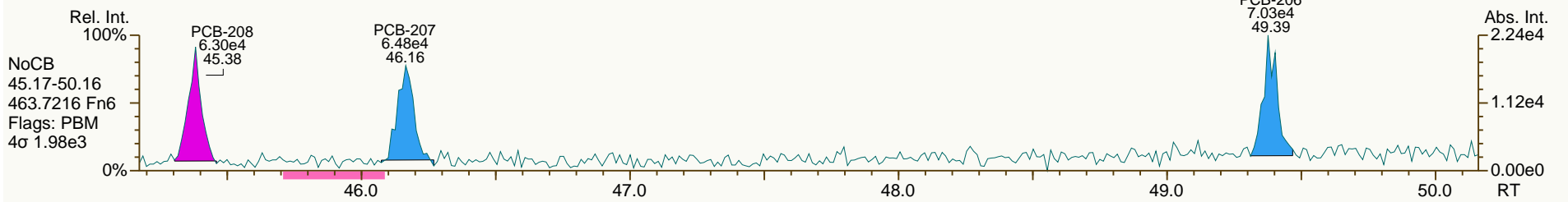
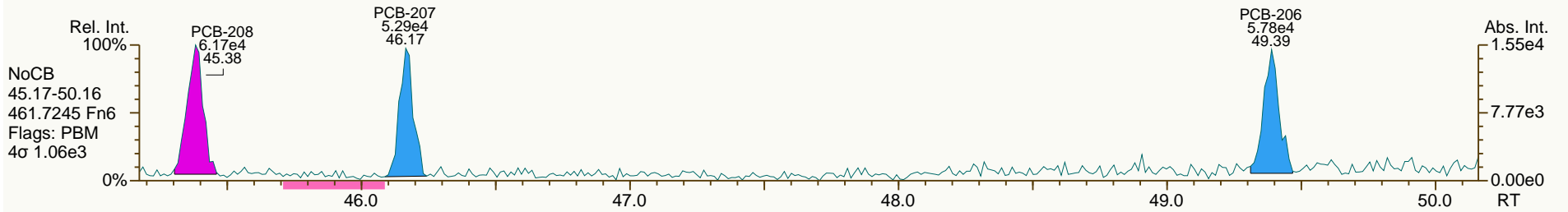
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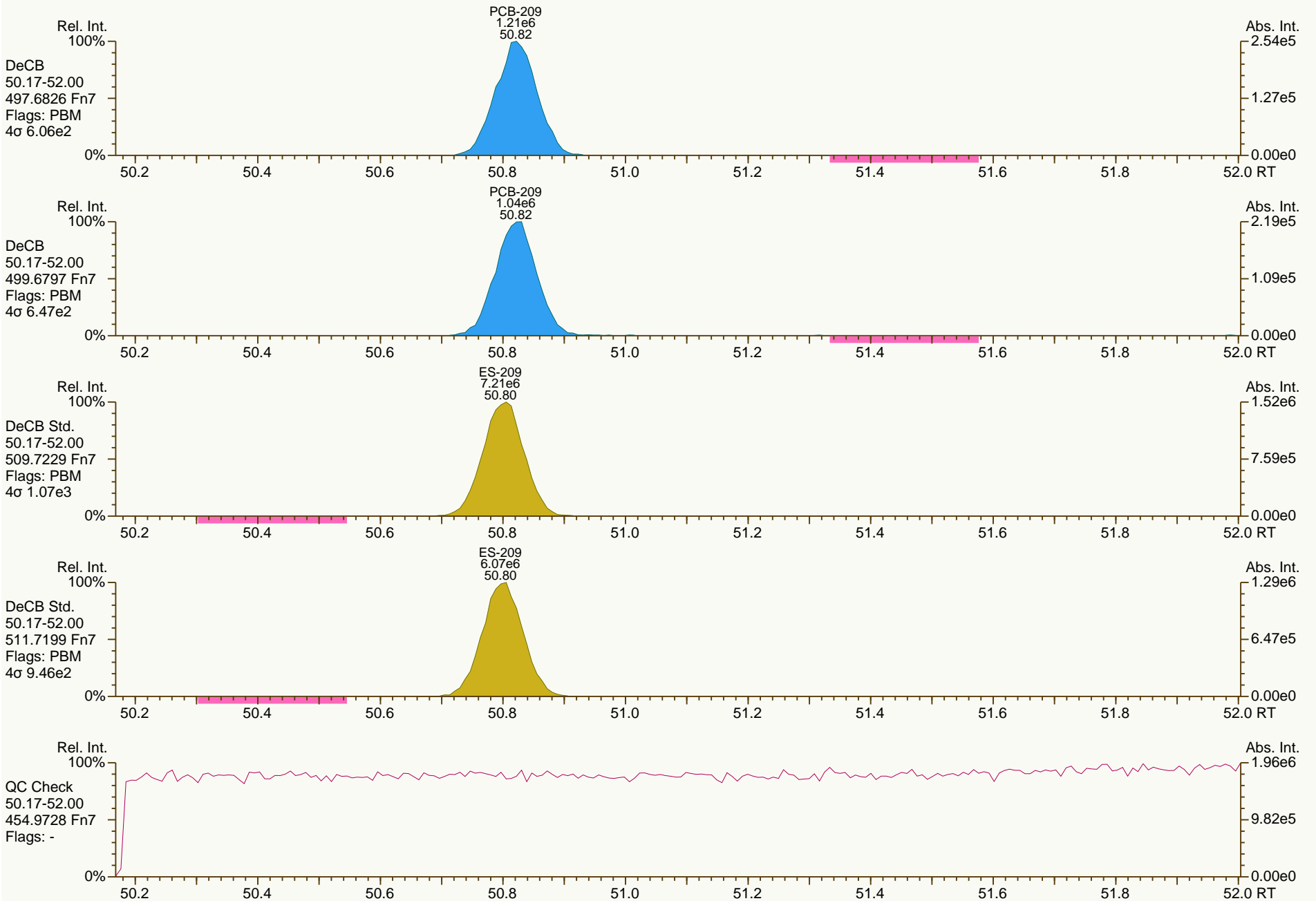
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Instr: AutoSpec-Premier MM7

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Lab ID: A6506\_11899\_PCB\_002

ACQ: 27-Mar-2014 15:13:30 LKB

Wt/Vol: 0.94 L

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Client ID: PB070\_B-1SWMID-140314-N (TOTAL)

UTP: 30-Mar-2014 13:53 LKB

J-level: 10.6 pg/L Split: 1

Checkcode: 505-842-NMR

Datafile: 140327X06

RPT: 30-Mar-2014 14:29 LB

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79		1.0006	1.0005	-0.2	1.64E+07	0.80	1.15	241	8.35E+03	1.26
PCB-81 344'5'-TeCB	32.32	J	1.0005	1.0007	+0.4	6.48E+05	0.79	1.12	10.1	8.35E+03	1.39
PCB-105 233'44'-PeCB	35.78		1.0006	1.0006	0	3.84E+07	0.62	1.11	714	6.43E+03	1.25
PCB-114 2344'5'-PeCB	35.23		1.0007	1.0006	-0.2	2.36E+06	0.64	1.20	41	6.43E+03	1.14
PCB-118 23'44'5'-PeCB	34.77		1.0006	1.0006	0	7.10E+07	0.62	1.19	1,270	6.43E+03	1.2
PCB-123 23'44'5'-PeCB	34.49		1.0006	1.0008	+0.4	1.95E+06	0.62	1.21	34.2	6.43E+03	1.17
PCB-126 33'44'5'-PeCB	38.38	J	1.0005	1.0004	-0.2	3.45E+05	0.69	1.11	7.34	4.04E+03	0.875
PCB-156/157 ...-HxCB	40.92	C	1.0005	1.0002	-0.7	3.09E+06	1.22	1.10	67.7	2.60E+03	0.813
PCB-167 23'44'55'-HxCB	39.95		1.0006	1.0005	-0.2	9.99E+05	1.26	1.16	19.7	2.60E+03	0.527
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.60E+03	0.615
PCB-189 233'44'55'-HpCB	45.77	J	1.0004	1.0004	0	1.18E+05	1.06	1.07	2.96	2.55E+03	0.659
PCB-209 DeCB	50.83		1.0004	1.0004	0	6.07E+06	1.16	1.11	249	1.38E+03	0.649
ES PCB-1	11.87		0.7245	0.7243	-0.1	9.83E+07	3.22	1.19	52.6 %	15%	150%
ES PCB-3	14.16		0.8640	0.8639	-0.1	1.10E+08	3.30	1.09	64.4 %	15%	150%
ES PCB-4	14.41		0.8795	0.8792	-0.3	5.88E+07	1.59	0.52	71.9 %	25%	150%
ES PCB-15	20.12		1.2271	1.2276	+0.6	1.61E+08	1.58	1.04	98.9 %	25%	150%
ES PCB-19	17.50		1.0673	1.0674	+0.1	6.29E+07	1.06	0.51	79.4 %	25%	150%
ES PCB-37	26.45		1.0787	1.0790	+0.5	1.40E+08	1.09	1.66	87.4 %	25%	150%
ES PCB-54	20.41		0.8328	0.8326	-0.2	6.71E+07	0.79	0.86	80.9 %	25%	150%
ES PCB-77	32.77		1.3364	1.3371	+1.4	1.25E+08	0.80	1.38	93.8 %	25%	150%
ES PCB-81	32.30		1.3170	1.3177	+1.4	1.21E+08	0.80	1.37	92.1 %	25%	150%
ES PCB-104	25.38		0.8325	0.8322	-0.5	7.49E+07	1.57	0.80	103 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	1.02E+08	1.59	1.20	93.9 %	25%	150%
ES PCB-114	35.21		1.1543	1.1546	+0.6	1.01E+08	1.61	1.22	91.7 %	25%	150%
ES PCB-118	34.75		1.1391	1.1394	+0.6	9.93E+07	1.60	1.16	94.3 %	25%	150%
ES PCB-123	34.47		1.1299	1.1302	+0.6	9.95E+07	1.59	1.19	92.4 %	25%	150%
ES PCB-126	38.37		1.2575	1.2580	+1.2	8.99E+07	1.54	1.03	96.3 %	25%	150%
ES PCB-153	36.33		0.9716	0.9716	0	7.22E+07	1.30	1.11	93.8 %	25%	150%
ES PCB-155	30.33		0.8114	0.8111	-0.5	1.03E+08	1.26	1.59	94.9 %	25%	150%
ES PCB-156/157	40.91		1.0939	1.0941	+0.5	1.76E+08	1.27	1.60	80.7 %	25%	150%
ES PCB-167	39.93		1.0677	1.0678	+0.2	9.24E+07	1.29	1.67	81.1 %	25%	150%
ES PCB-169	43.63		1.1664	1.1666	+0.5	8.11E+07	1.27	1.56	76.2 %	25%	150%
ES PCB-170	43.14		0.9081	0.9080	-0.3	5.35E+07	1.09	0.95	93.5 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	6.51E+07	1.08	1.14	94.4 %	25%	150%
ES PCB-188	35.21		0.7413	0.7410	-0.6	7.17E+07	1.08	0.94	112 %	25%	150%
ES PCB-189	45.75		0.9629	0.9629	0	7.88E+07	1.05	1.58	101 %	25%	150%
ES PCB-202	39.74		0.8366	0.8364	-0.5	6.80E+07	0.90	0.97	103 %	25%	150%
ES PCB-205	47.91		1.0084	1.0084	0	5.56E+07	0.90	1.24	90.7 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	3.72E+07	0.81	0.83	90.8 %	25%	150%
ES PCB-208	45.37		0.9549	0.9548	-0.3	6.13E+07	0.79	1.17	106 %	25%	150%
ES PCB-209	50.81		1.0694	1.0693	-0.3	4.63E+07	1.19	1.11	84.7 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	1.60E+08	1.08	1.11	103 %	30%	135%
SS PCB-111	32.79		1.0750	1.0751	+0.2	1.12E+08	1.60	1.03	110 %	30%	135%
SS PCB-178	37.77		1.0100	1.0100	0	4.78E+07	1.07	0.62	108 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	1.60E+08	1.08	1.85	90 %	30%	135%
CS PCB-111	32.79		1.0750	1.0751	+0.2	1.12E+08	1.60	1.22	101 %	30%	135%
CS PCB-178	37.77		1.0100	1.0100	0	4.78E+07	1.07	0.58	120 %	30%	135%
JS PCB-9	16.39					1.57E+08	1.57				
JS PCB-52	24.51					9.63E+07	0.82				
JS PCB-101	30.50					9.08E+07	1.58				
JS PCB-138	37.40					6.83E+07	1.27				
JS PCB-194	47.51					4.94E+07	0.90				
					<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
					Mono-CBs	72.7	72.7	0.911			
					Di-CBs	1,390	1,390	1.75			
					Tri-CBs	16,700	16,700	1.85			
					Tetra-CBs	33,400	33,400	0.919			
					Penta-CBs	12,700	12,700	1			
					Hexa-CBs	2,440	2,440	0.553			
					Hepta-CBs	559	565	0.584			
					Octa-CBs	127	127	0.537			
					Nona-CBs	35.5	35.5	1.47			
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	2.73E+06	3.17	0.95	61.8	6.48E+03	0.901
PCB-2 3-MoCB	13.99	J	0.9880	0.9881	+0.1	1.69E+05	3.21	1.20	2.74	6.48E+03	0.776
PCB-3 4-MoCB	14.18	J	1.0010	1.0010	0	4.30E+05	3.25	1.01	8.23	6.48E+03	0.921
PCB-4 22'-DiCB	14.43		1.0011	1.0011	0	1.82E+07	1.57	1.23	531	9.48E+03	2.17
PCB-10 26'-DiCB	14.61		1.0135	1.0138	+0.3	1.14E+06	1.79	1.90	21.6	9.48E+03	1.41
PCB-9 25'-DiCB	16.41		1.0010	1.0010	0	1.85E+06	1.63	1.01	24	1.06E+04	1.35
PCB-7 24'-DiCB	16.57	J	1.0111	1.0111	0	7.60E+05	SI	1.14	8.76	1.06E+04	1.2
PCB-6 23'-DiCB	16.80		1.0249	1.0249	0	7.19E+06	1.69	1.06	88.7	1.06E+04	1.28
PCB-5 23'-DiCB	17.10	J	1.0433	1.0432	-0.1	5.11E+05	SI	1.07	6.26	1.06E+04	1.27
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	3.03E+07	1.63	1.10	362	1.06E+04	1.24
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	1.06E+04	1.07
PCB-11 33'-DiCB	19.56	B	0.9721	0.9720	-0.1	2.93E+06	1.60	1.10	35	1.06E+04	1.24
PCB-13/12 34'/34'-DiCB	19.83	C	0.9866	0.9855	-1.3	2.77E+06	1.51	1.10	33.1	1.06E+04	1.25
PCB-15 44'-DiCB	20.14		1.0008	1.0006	-0.2	2.16E+07	1.66	1.02	279	1.06E+04	1.34
PCB-19 22'6-TrCB	17.52		1.0010	1.0010	0	1.33E+07	1.05	1.15	391	7.48E+03	1.96
PCB-30/18 246/22'5-TrCB	19.28	C	1.1014	1.1020	+0.7	1.79E+08	1.03	1.54	3,930	7.48E+03	1.47
PCB-17 22'4-TrCB	19.68		1.1243	1.1245	+0.2	5.15E+07	1.04	1.32	1,310	7.48E+03	1.7
PCB-27 23'6-TrCB	19.87		1.1353	1.1355	+0.2	1.21E+07	1.05	1.80	226	7.48E+03	1.25
PCB-24 236-TrCB	19.99		1.1430	1.1427	-0.4	1.34E+06	1.10	1.71	26.4	7.48E+03	1.32
PCB-16 22'3-TrCB	20.10		1.1484	1.1486	+0.2	4.29E+07	1.05	1.01	1,430	7.48E+03	2.22
PCB-32 24'6-TrCB	20.58		1.1758	1.1761	+0.4	6.74E+07	1.04	1.90	1,190	7.48E+03	1.18



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.73	J	0.8218	0.8216	-0.3	8.09E+05	1.00	1.28	9.61	1.22E+04	1.47
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	1.22E+04	1.47
PCB-26/29 23'5'/245-TrCB	22.14	C	0.8383	0.8371	-1.6	3.62E+07	1.00	1.29	425	1.22E+04	1.46
PCB-25 23'4'-TrCB	22.36		0.8456	0.8456	0	1.40E+07	1.00	1.28	165	1.22E+04	1.46
PCB-31 24'5'-TrCB	22.64		0.8562	0.8560	-0.3	2.47E+08	1.01	1.34	2,780	1.22E+04	1.4
PCB-28/20 244'/233'-TrCB	22.91	C	0.8670	0.8664	-0.8	2.26E+08	1.00	1.25	2,740	1.22E+04	1.5
PCB-21/33 234'/23'4'-TrCB	23.13	C	0.8738	0.8744	+0.8	6.61E+07	1.01	1.29	778	1.22E+04	1.46
PCB-22 234'-TrCB	23.48		0.8880	0.8878	-0.3	5.80E+07	1.00	1.20	732	1.22E+04	1.56
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	1.22E+04	1.42
PCB-39 34'5'-TrCB	25.23		0.9522	0.9540	+2.7	2.42E+06	0.99	1.36	27	1.22E+04	1.38
PCB-38 345-TrCB	25.73	J	0.9723	0.9728	+0.8	5.02E+05	1.13	1.21	6.27	1.22E+04	1.55
PCB-35 33'4'-TrCB	26.11		0.9871	0.9872	+0.2	3.05E+06	1.00	1.16	40	1.22E+04	1.62
PCB-37 344'-TrCB	26.47		1.0007	1.0009	+0.3	3.43E+07	1.01	1.08	482	1.22E+04	1.74
PCB-54 22'66'-TeCB	20.43		1.0010	1.0010	0	7.10E+05	0.88	1.35	16.6	2.81E+03	0.664
PCB-50/53 22'46'/22'56'-TeCB	22.39	C	0.9145	0.9134	-1.5	4.62E+07	0.78	0.92	874	3.13E+03	0.631
PCB-45 22'36'-TeCB	23.00		0.9383	0.9384	+0.1	4.15E+07	0.77	0.80	907	3.13E+03	0.729
PCB-51 22'46'-TeCB	23.08		0.9413	0.9416	+0.4	1.05E+07	0.80	0.93	198	3.13E+03	0.631
PCB-46 22'36'-TeCB	23.28		0.9499	0.9498	-0.1	1.53E+07	0.80	0.73	364	3.13E+03	0.797
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	2.73E+08	0.79	0.89	5,340	3.13E+03	0.652
PCB-73 23'5'6'-TeCB	24.65	J	1.0062	1.0057	-0.7	6.86E+05	0.80	1.18	10.2	3.13E+03	0.495
PCB-43 22'35'-TeCB	24.76		1.0101	1.0101	0	8.01E+06	0.79	0.77	182	3.13E+03	0.757
PCB-69/49 23'46'/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	1.64E+08	0.79	1.10	2,610	3.13E+03	0.531
PCB-48 22'45'-TeCB	25.24		1.0295	1.0296	+0.2	4.86E+07	0.79	0.91	936	3.13E+03	0.643
PCB-44/47/65 ...-TeCB	25.43	C	1.0384	1.0374	-1.5	2.53E+08	0.79	0.96	4,590	3.13E+03	0.605
PCB-59/62/75 ...-TeCB	25.72	C	1.0496	1.0493	-0.5	2.35E+07	0.79	1.25	329	3.13E+03	0.468
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	5.55E+07	0.79	0.83	1,170	3.13E+03	0.702
PCB-41 22'34'-TeCB	26.23		1.0698	1.0700	+0.3	1.71E+07	0.79	0.73	410	3.13E+03	0.799
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	1.09E+08	0.79	0.93	2,060	3.13E+03	0.628
PCB-64 234'6'-TeCB	26.52		1.0819	1.0820	+0.2	1.34E+08	0.79	1.32	1,780	3.13E+03	0.443
PCB-72 23'55'-TeCB	27.24		0.8436	0.8433	-0.5	1.38E+06	0.80	1.29	18.6	8.35E+03	1.21
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	2.19E+06	0.77	1.37	28	8.35E+03	1.14
PCB-57 233'5'-TeCB	27.87		0.8630	0.8629	-0.2	9.00E+05	0.74	1.23	12.8	8.35E+03	1.26
PCB-58 233'5'-TeCB	28.07	J	0.8693	0.8692	-0.2	5.38E+05	0.82	1.26	7.46	8.35E+03	1.23
PCB-67 23'45'-TeCB	28.23		0.8741	0.8740	-0.2	5.32E+06	0.79	1.31	71.2	8.35E+03	1.19
PCB-63 234'5'-TeCB	28.45		0.8811	0.8810	-0.2	8.34E+06	0.78	1.36	107	8.35E+03	1.14
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8902	0	3.92E+08	0.79	1.24	5,500	8.35E+03	1.25
PCB-66 23'44'-TeCB	29.03		0.8989	0.8987	-0.3	2.21E+08	0.79	1.17	3,320	8.35E+03	1.33
PCB-55 233'4'-TeCB	29.17		0.9034	0.9031	-0.5	2.35E+06	0.81	1.17	34.9	8.35E+03	1.32
PCB-56 233'4'-TeCB	29.61		0.9169	0.9167	-0.4	1.07E+08	0.79	1.16	1,610	8.35E+03	1.34
PCB-60 2344'-TeCB	29.80		0.9229	0.9227	-0.4	4.62E+07	0.79	1.18	687	8.35E+03	1.32
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	8.35E+03	1.14
PCB-79 33'45'-TeCB	31.46		0.9737	0.9741	+0.8	1.61E+06	0.71	1.38	20.3	8.35E+03	1.13
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	8.35E+03	1.4
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.89E+03	0.385
PCB-96 22'366'-PeCB	25.72		1.0134	1.0134	0	2.25E+06	0.64	1.20	53.2	1.89E+03	0.461
PCB-103 22'45'6'-PeCB	27.41		0.8989	0.8988	-0.2	7.27E+05	0.64	0.95	16.3	6.43E+03	1.49
PCB-94 22'356'-PeCB	27.60		0.9051	0.9050	-0.2	8.40E+05	0.61	0.79	22.5	6.43E+03	1.78
PCB-95 22'35'6'-PeCB	27.98		0.9176	0.9175	-0.2	6.34E+07	0.61	0.86	1,560	6.43E+03	1.64

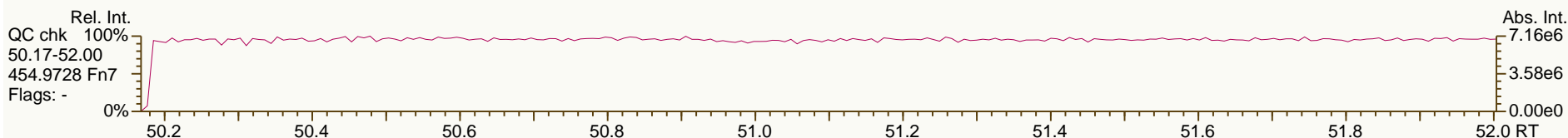
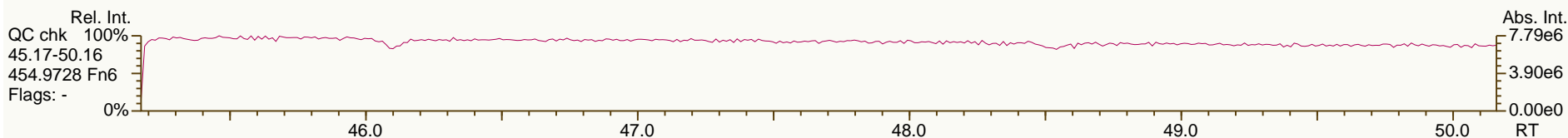
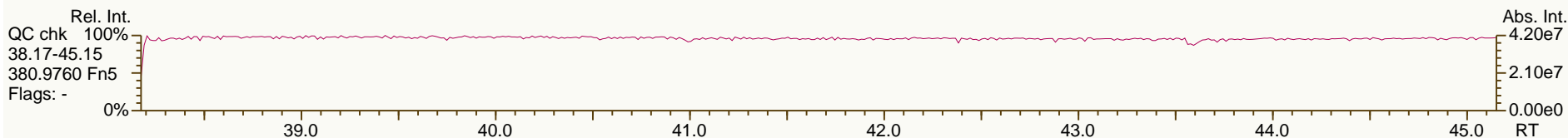
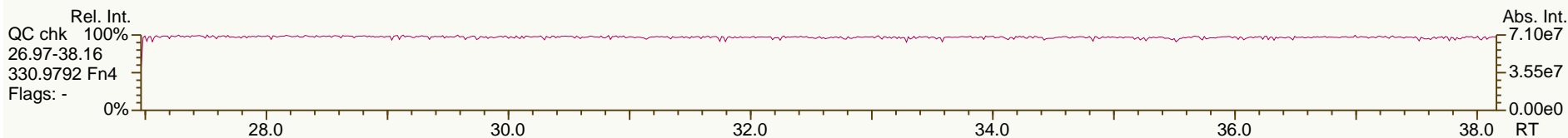
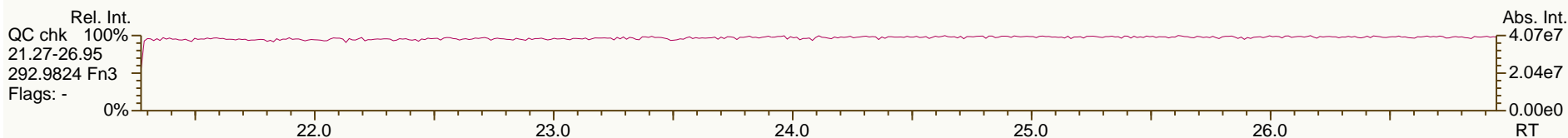
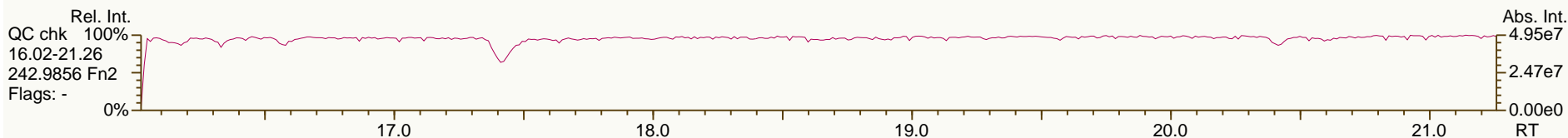
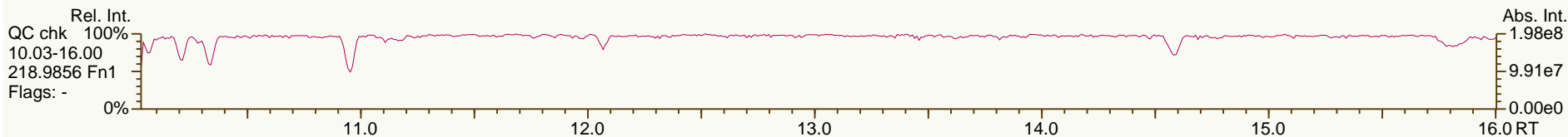
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.19	C	0.9246	0.9244	-0.3	1.54E+06	0.58	0.88	37.4	6.43E+03	1.62
PCB-102 22'456"-PeCB	28.30		0.9282	0.9280	-0.3	5.38E+06	0.62	1.04	110	6.43E+03	1.36
PCB-98 22'34'6"-PeCB	28.38	J	0.9305	0.9306	+0.2	2.52E+05	0.61	0.73	7.38	6.43E+03	1.95
PCB-88 22'346"-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	6.43E+03	1.79
PCB-91 22'34'6"-PeCB	28.74		0.9424	0.9424	0	1.71E+07	0.61	0.91	397	6.43E+03	1.55
PCB-84 22'33'6"-PeCB	28.93		0.9487	0.9487	0	2.58E+07	0.61	0.72	761	6.43E+03	1.96
PCB-89 22'346"-PeCB	29.35		0.9624	0.9624	0	2.80E+06	0.61	0.76	78.1	6.43E+03	1.85
PCB-121 23'45'6"-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	6.43E+03	1.16
PCB-92 22'355"-PeCB	30.01		0.9841	0.9841	0	1.20E+07	0.61	0.83	310	6.43E+03	1.71
PCB-113/90/101 ...-PeCB	30.52	C	0.9999	1.0007	+1.5	7.45E+07	0.62	0.98	1,610	6.43E+03	1.44
PCB-83 22'33'5"-PeCB	30.92		1.0142	1.0140	-0.4	3.76E+06	0.61	0.71	112	6.43E+03	1.98
PCB-99 22'44'5"-PeCB	31.03		1.0173	1.0173	0	4.42E+07	0.62	0.91	1,040	6.43E+03	1.56
PCB-112 233'56"-PeCB	31.14	J	1.0206	1.0212	+1.1	2.90E+05	0.62	1.17	5.28	6.43E+03	1.21
PCB-108/119/86/97/125...-PeCB	31.50	C	1.0320	1.0329	+1.7	6.84E+07	0.62	1.00	1,460	6.43E+03	1.42
PCB-117 234'56"-PeCB	32.00		1.0495	1.0493	-0.4	2.55E+06	0.60	1.05	51.6	6.43E+03	1.35
PCB-116/85 23456/22'344"-PeCB	32.09	C	1.0525	1.0520	-1.0	2.11E+07	0.62	0.98	456	6.43E+03	1.44
PCB-110 233'4'6"-PeCB	32.22		1.0561	1.0563	+0.4	1.02E+08	0.62	1.12	1,940	6.43E+03	1.27
PCB-115 2344'6"-PeCB	32.31		1.0590	1.0595	+1.0	2.70E+06	0.62	1.15	50.2	6.43E+03	1.23
PCB-82 22'33'4"-PeCB	32.50		1.0655	1.0656	+0.2	1.25E+07	0.62	0.69	385	6.43E+03	2.04
PCB-111 233'55"-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	6.43E+03	1.17
PCB-120 23'455"-PeCB	33.21	J	1.0887	1.0890	+0.6	1.81E+05	0.64	1.22	3.14	6.43E+03	1.16
PCB-107/124 ...-PeCB	34.18	C	0.9916	0.9916	0	3.12E+06	0.62	1.10	60.6	6.43E+03	1.29
PCB-109 233'46"-PeCB	34.39		0.9976	0.9977	+0.2	6.26E+06	0.63	1.24	108	6.43E+03	1.14
PCB-106 233'45"-PeCB	34.61	J	1.0038	1.0041	+0.6	1.07E+05	0.64	1.08	2.12	6.43E+03	1.31
PCB-122 233'4'5"-PeCB	35.07		1.0091	1.0091	0	1.53E+06	0.61	1.00	31.9	6.43E+03	1.37
PCB-127 33'455"-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	6.43E+03	1.28
PCB-155 22'44'66"-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.55E+03	0.254
PCB-152 22'3566"-HxCB	30.51	J EMPC	1.0060	1.0060	0	5.46E+04	0.91	1.11	1.02	1.55E+03	0.29
PCB-150 22'34'66"-HxCB	30.65	J EMPC	1.0107	1.0107	0	3.56E+04	1.49	1.12	0.654	1.55E+03	0.286
PCB-136 22'33'66"-HxCB	30.96		1.0207	1.0208	+0.2	3.76E+06	1.29	1.03	75.3	1.55E+03	0.312
PCB-145 22'3466"-HxCB	31.23	J	1.0296	1.0297	+0.2	2.62E+04	1.13	1.05	0.514	1.55E+03	0.305
PCB-148 22'34'56"-HxCB	32.51	J	1.0714	1.0718	+0.8	3.32E+04	1.27	1.12	0.868	1.55E+03	0.414
PCB-151/135 ...-HxCB	33.02	C	1.0886	1.0886	0	5.83E+06	1.25	1.06	161	1.55E+03	0.437
PCB-154 22'44'56"-HxCB	33.23	J	1.0954	1.0956	+0.4	2.66E+05	1.22	1.25	6.26	1.55E+03	0.373
PCB-144 22'345'6"-HxCB	33.50		1.1041	1.1044	+0.6	9.74E+05	1.26	1.10	25.9	1.55E+03	0.422
PCB-147/149 ...-HxCB	33.79	C	1.1141	1.1142	+0.2	1.49E+07	1.27	1.11	395	1.55E+03	0.421
PCB-134 22'33'56"-HxCB	33.97		1.1199	1.1202	+0.6	1.11E+06	1.30	0.79	41.4	1.55E+03	0.591
PCB-143 22'3456"-HxCB	34.06	J	1.1225	1.1229	+0.8	1.34E+05	1.17	1.10	3.56	1.55E+03	0.421
PCB-139/140 ...-HxCB	34.31	J C	1.1312	1.1313	+0.2	5.38E+05	1.19	1.11	14.2	1.55E+03	0.419
PCB-131 22'33'46"-HxCB	34.49		1.1369	1.1373	+0.8	3.78E+05	1.38	0.94	11.8	1.55E+03	0.495
PCB-142 22'3456"-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.55E+03	0.502
PCB-132 22'33'46"-HxCB	34.87		1.1494	1.1497	+0.6	7.17E+06	1.27	0.97	217	1.55E+03	0.479
PCB-133 22'33'55"-HxCB	35.27	J	1.1626	1.1629	+0.6	2.83E+05	1.25	1.04	7.94	1.55E+03	0.445
PCB-165 233'55'6"-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.55E+03	0.355
PCB-146 22'34'55"-HxCB	35.83		0.9582	0.9581	-0.2	2.77E+06	1.29	1.14	71.3	1.55E+03	0.408
PCB-161 233'45'6"-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.55E+03	0.328
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9721	-1.5	1.69E+07	1.26	1.39	357	1.55E+03	0.335
PCB-141 22'3455"-HxCB	36.52		0.9766	0.9766	0	3.30E+06	1.27	1.03	93.4	1.55E+03	0.45

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.87		0.9859	0.9859	0	1.32E+06	1.27	0.92	42.1	1.55E+03	0.506
PCB-137 22'344'5'-HxCB	37.06		0.9911	0.9911	0	1.30E+06	1.29	1.14	33.6	1.55E+03	0.41
PCB-164 233'4'5'6'-HxCB	37.15		0.9933	0.9933	0	1.77E+06	1.27	1.38	37.7	1.55E+03	0.337
PCB-163/138/129 ...-HxCB	37.42	C	1.0011	1.0007	-0.9	2.23E+07	1.24	1.11	589	1.55E+03	0.418
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.55E+03	0.357
PCB-158 233'44'6'-HxCB	37.75		1.0096	1.0096	0	3.00E+06	1.30	1.50	58.9	1.55E+03	0.311
PCB-128/166 ...-HxCB	38.50	C	0.9641	0.9642	+0.2	4.03E+06	1.24	0.89	103	2.60E+03	0.686
PCB-159 233'455'-HxCB	39.29	J	0.9844	0.9840	-0.9	1.53E+05	1.34	1.07	3.28	2.60E+03	0.572
PCB-162 233'4'55'-HxCB	39.54	J	0.9903	0.9902	-0.2	9.93E+04	1.06	1.06	2.14	2.60E+03	0.576
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.41E+03	0.345
PCB-179 22'33'566'-HpCB	35.51		1.0086	1.0087	+0.2	1.18E+06	1.07	1.08	32.3	1.41E+03	0.405
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.41E+03	0.426
PCB-176 22'33'466'-HpCB	36.26	J	1.0300	1.0300	0	3.42E+05	1.16	1.14	8.88	1.41E+03	0.384
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.41E+03	0.409
PCB-178 22'33'55'6'-HpCB	37.79		1.0733	1.0734	+0.2	3.88E+05	1.13	0.76	15.1	1.41E+03	0.577
PCB-175 22'33'45'6'-HpCB	38.33	J EMPC	1.0887	1.0888	+0.2	1.02E+05	0.86	1.08	3.06	2.05E+03	0.632
PCB-187 22'34'55'6'-HpCB	38.56		1.0952	1.0954	+0.5	2.97E+06	1.05	1.15	84.1	2.05E+03	0.593
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	2.05E+03	0.573
PCB-183 22'344'5'6'-HpCB	39.09		1.1101	1.1102	+0.2	1.43E+06	1.04	1.22	38.2	2.05E+03	0.559
PCB-185 22'3455'6'-HpCB	39.18	J	1.1125	1.1128	+0.7	2.54E+05	1.03	1.03	8	2.05E+03	0.661
PCB-174 22'33'456'-HpCB	39.28		1.1156	1.1158	+0.5	2.16E+06	1.04	0.98	71.6	2.05E+03	0.695
PCB-177 22'33'45'6'-HpCB	39.66		1.1262	1.1264	+0.5	1.27E+06	1.02	0.95	43.5	2.05E+03	0.721
PCB-181 22'344'56-HpCB	40.01	J	1.1361	1.1363	+0.5	3.60E+04	1.19	1.07	1.1	2.05E+03	0.638
PCB-171/173 ...-HpCB	40.20	C	1.1413	1.1417	+1.0	7.16E+05	1.03	0.95	24.6	2.05E+03	0.721
PCB-172 22'33'455'-HpCB	41.54		0.9080	0.9079	-0.2	3.62E+05	1.10	0.97	12.2	2.05E+03	0.703
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	2.05E+03	0.541
PCB-180/193 ...-HpCB	42.09	C	0.9194	0.9200	+1.5	5.14E+06	1.03	1.24	135	2.05E+03	0.55
PCB-191 233'44'5'6'-HpCB	42.39	J EMPC	0.9266	0.9265	-0.3	1.06E+05	1.26	1.35	2.55	2.05E+03	0.505
PCB-170 22'33'44'5'-HpCB	43.16		0.9434	0.9434	0	1.98E+06	1.08	1.14	69	2.05E+03	0.752
PCB-190 233'44'56-HpCB	43.61		0.9533	0.9533	0	5.06E+05	1.14	1.56	12.9	2.05E+03	0.549
PCB-202 22'33'55'66'-OoCB	39.76	J	1.0005	1.0006	+0.2	2.93E+05	0.89	1.05	8.68	1.50E+03	0.476
PCB-201 22'33'45'66'-OoCB	40.55	J	1.0203	1.0204	+0.2	1.84E+05	0.82	1.13	5.05	1.50E+03	0.442
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.50E+03	0.475
PCB-197 22'33'44'66'-OoCB	41.32	J	1.0396	1.0396	0	6.13E+04	0.93	1.13	1.69	1.50E+03	0.443
PCB-200 22'33'4566'-OoCB	41.40	J	1.0418	1.0418	0	1.43E+05	0.86	1.07	4.14	1.50E+03	0.466
PCB-198/199 ...-OoCB	43.75	C	1.1001	1.1007	+1.6	8.03E+05	0.86	0.72	34.7	1.50E+03	0.695
PCB-196 22'33'44'56'-OoCB	44.30		1.1146	1.1147	+0.3	3.65E+05	0.88	0.76	14.9	1.50E+03	0.655
PCB-203 22'344'55'6-OoCB	44.47		1.1188	1.1190	+0.5	4.63E+05	0.97	0.77	18.7	1.50E+03	0.649
PCB-195 22'33'44'56-OoCB	45.59		0.9516	0.9515	-0.3	2.26E+05	0.85	0.80	10.8	1.63E+03	0.798
PCB-194 22'33'44'55'-OoCB	47.53		0.9921	0.9921	0	5.95E+05	0.96	0.85	26.6	1.63E+03	0.745
PCB-205 233'44'55'6-OoCB	47.94	J	1.0004	1.0005	+0.3	3.88E+04	0.98	1.06	1.39	1.63E+03	0.599
PCB-208 22'33'455'66'-NoCB	45.39	J	1.0005	1.0004	-0.3	3.19E+05	0.84	1.12	9.81	3.39E+03	1.1
PCB-207 22'33'44'566'-NoCB	46.17	J	1.0178	1.0178	0	2.67E+05	0.71	1.13	8.13	3.39E+03	1.09
PCB-206 22'33'44'55'6-NoCB	49.40		1.0004	1.0005	+0.3	3.43E+05	0.77	1.11	17.5	3.39E+03	1.83

SGS-AP ID: A6506\_11899\_PCB\_002  
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Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
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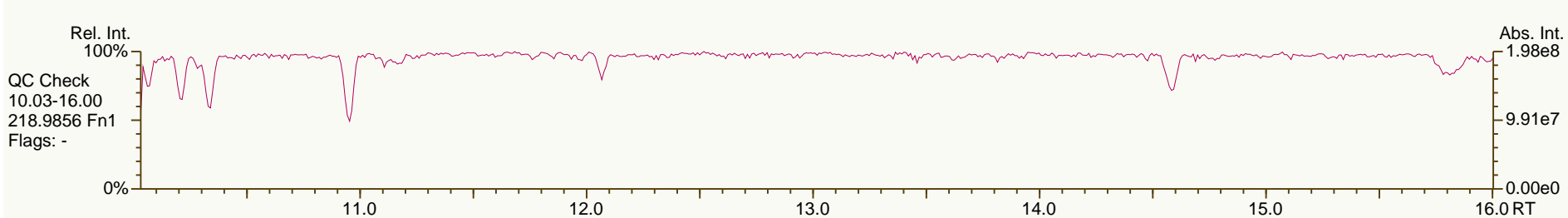
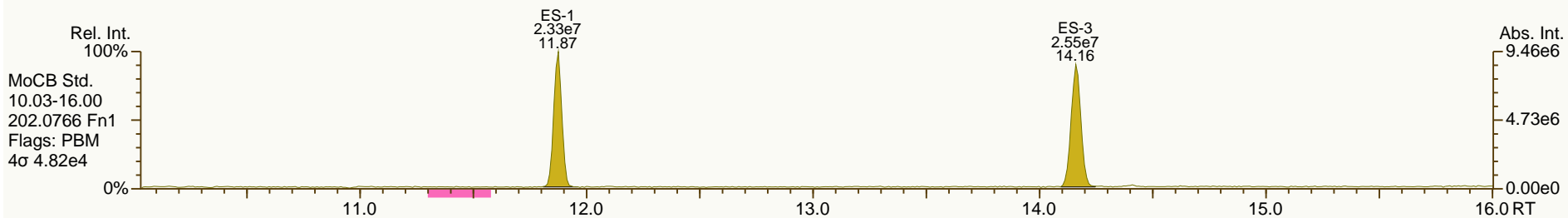
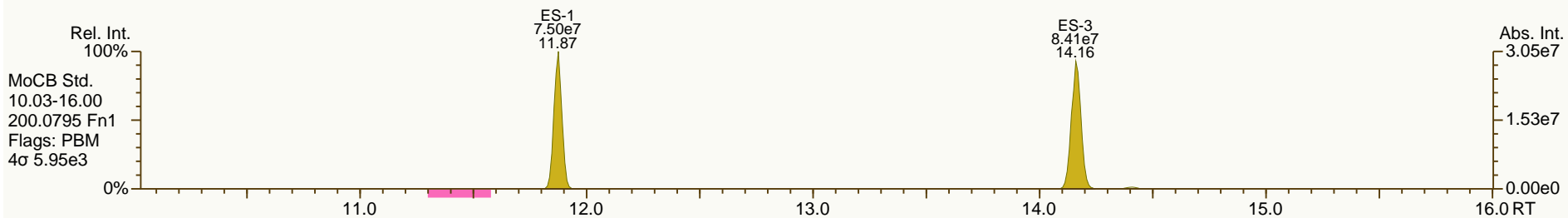
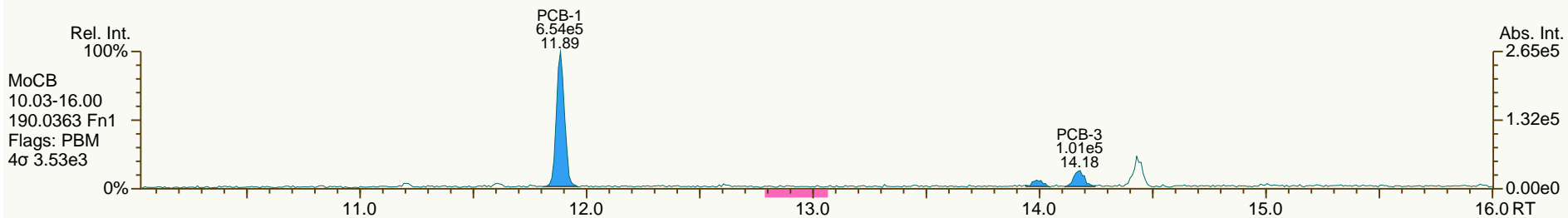
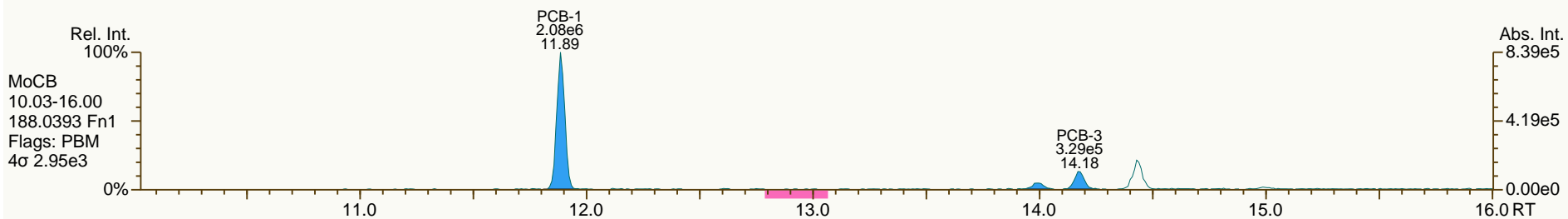
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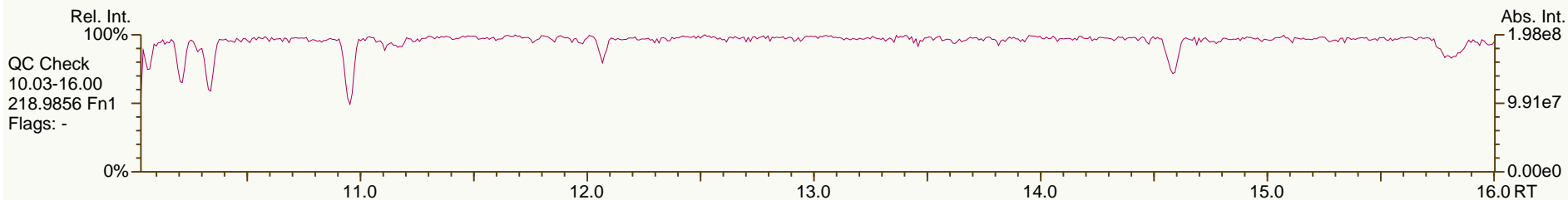
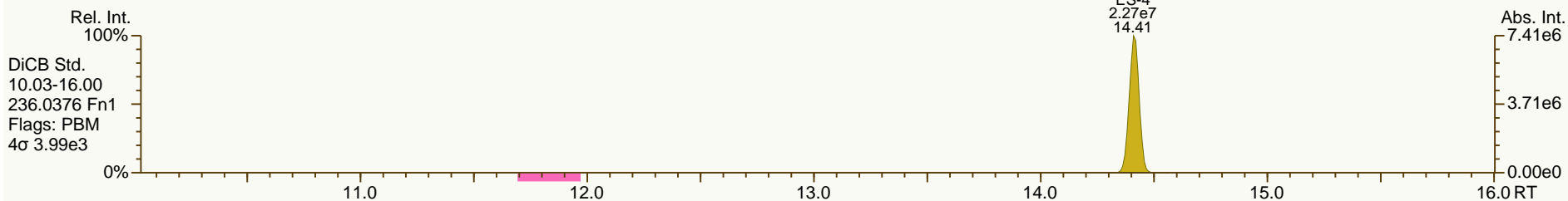
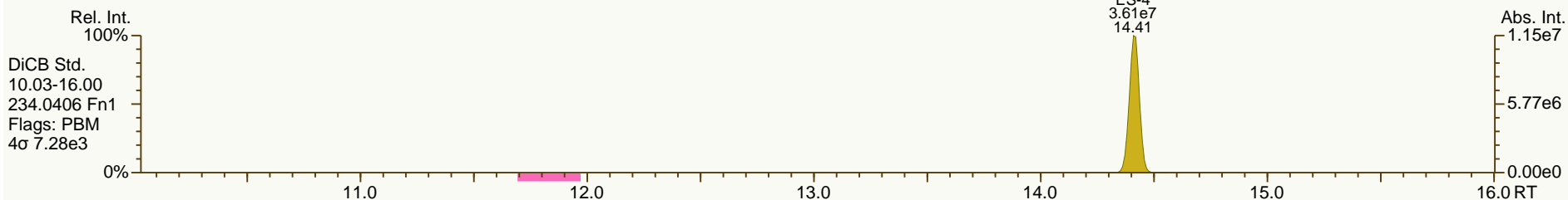
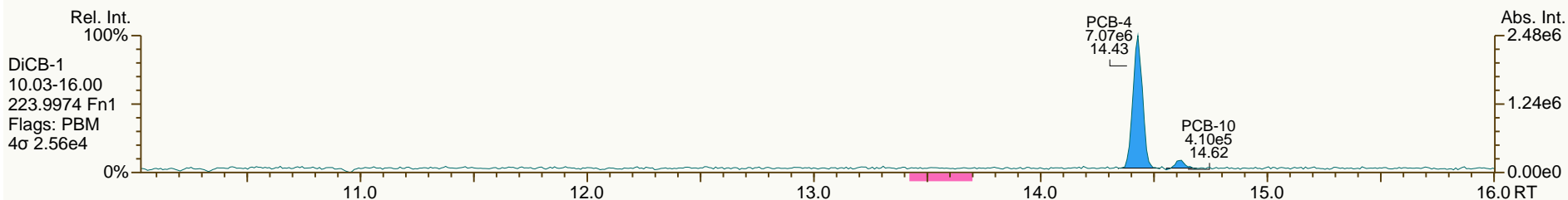
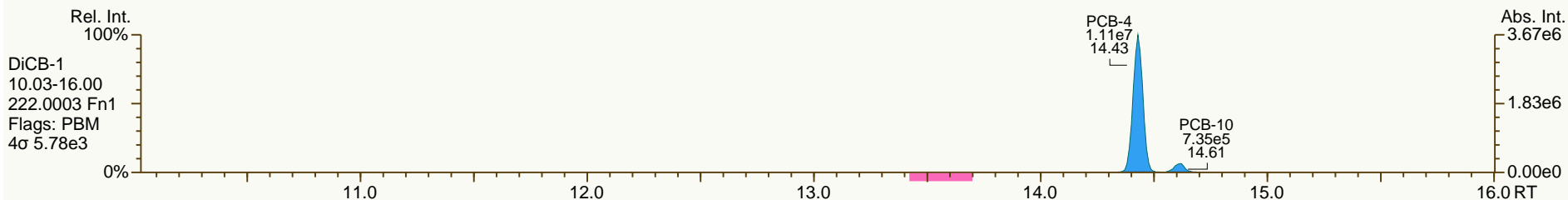
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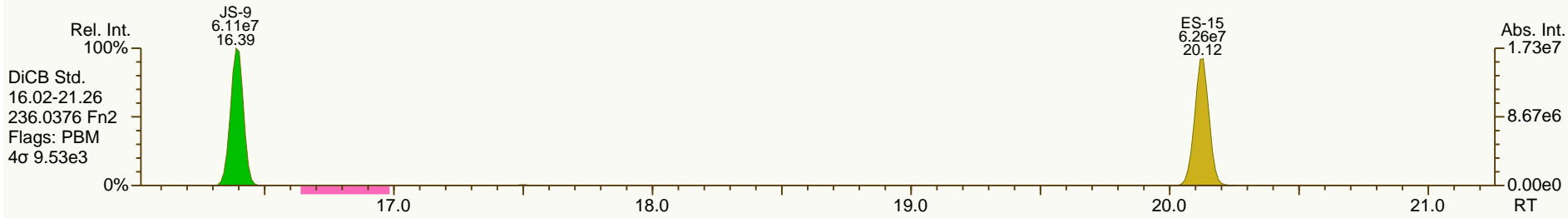
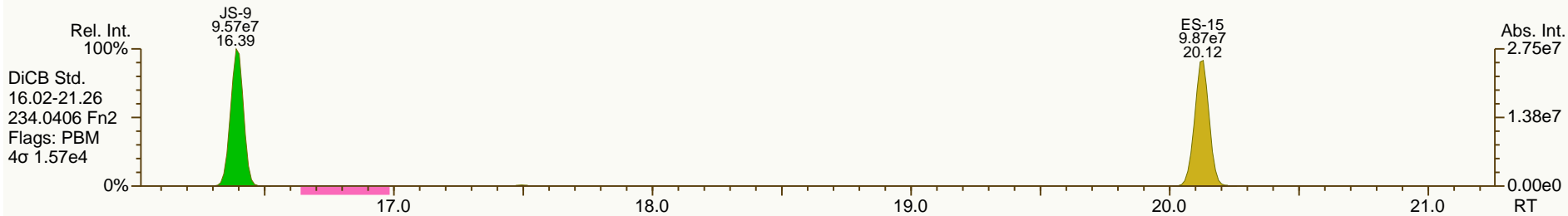
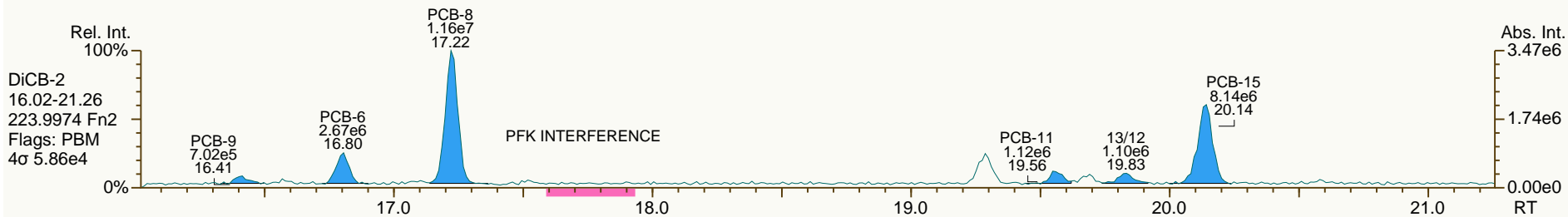
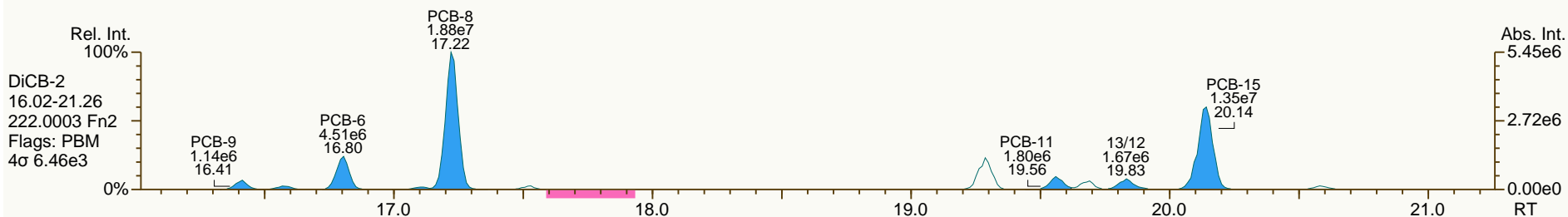
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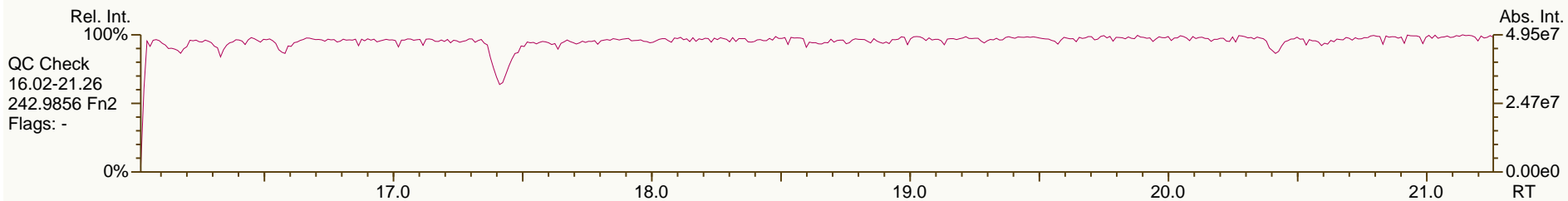
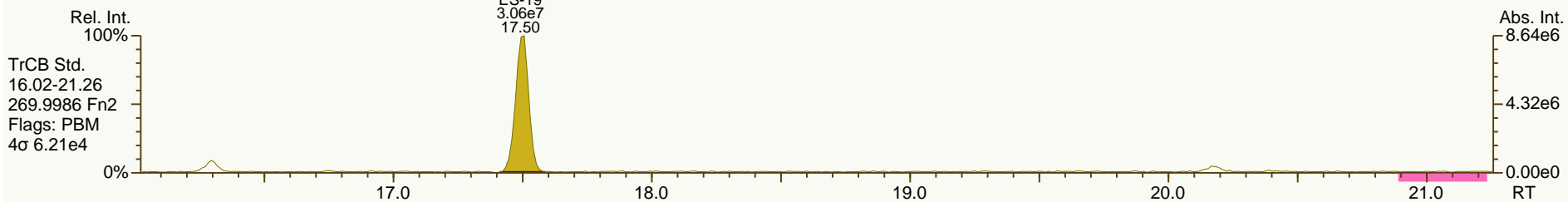
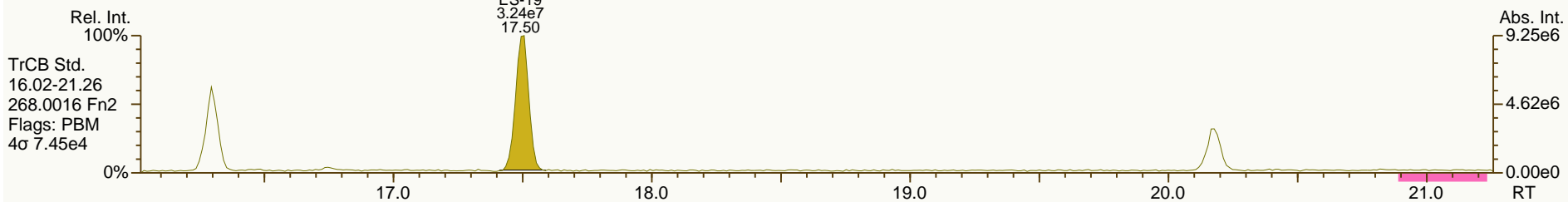
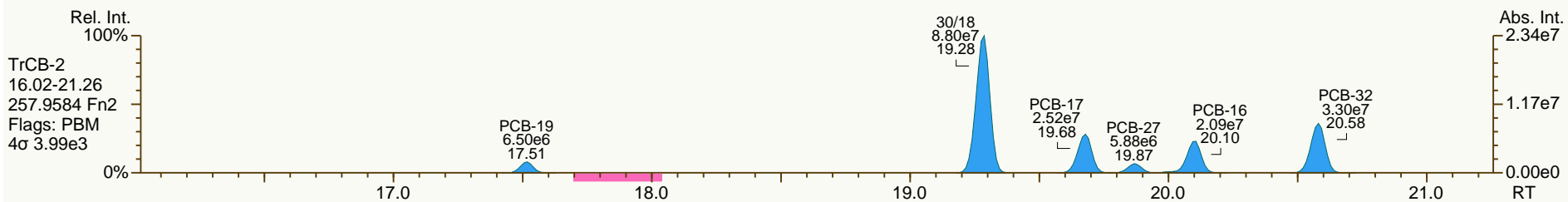
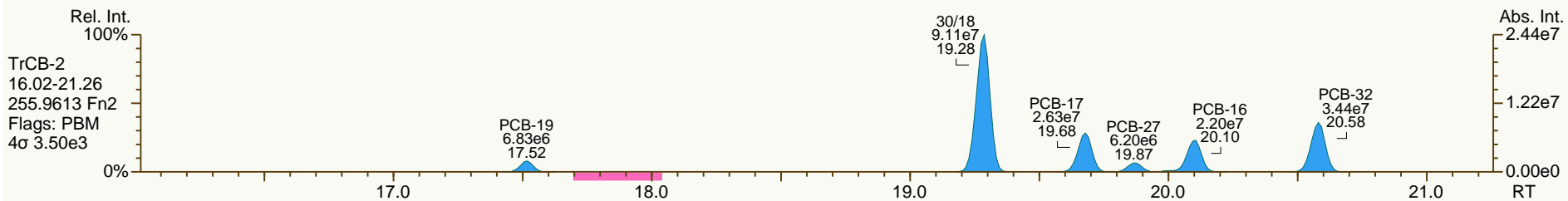
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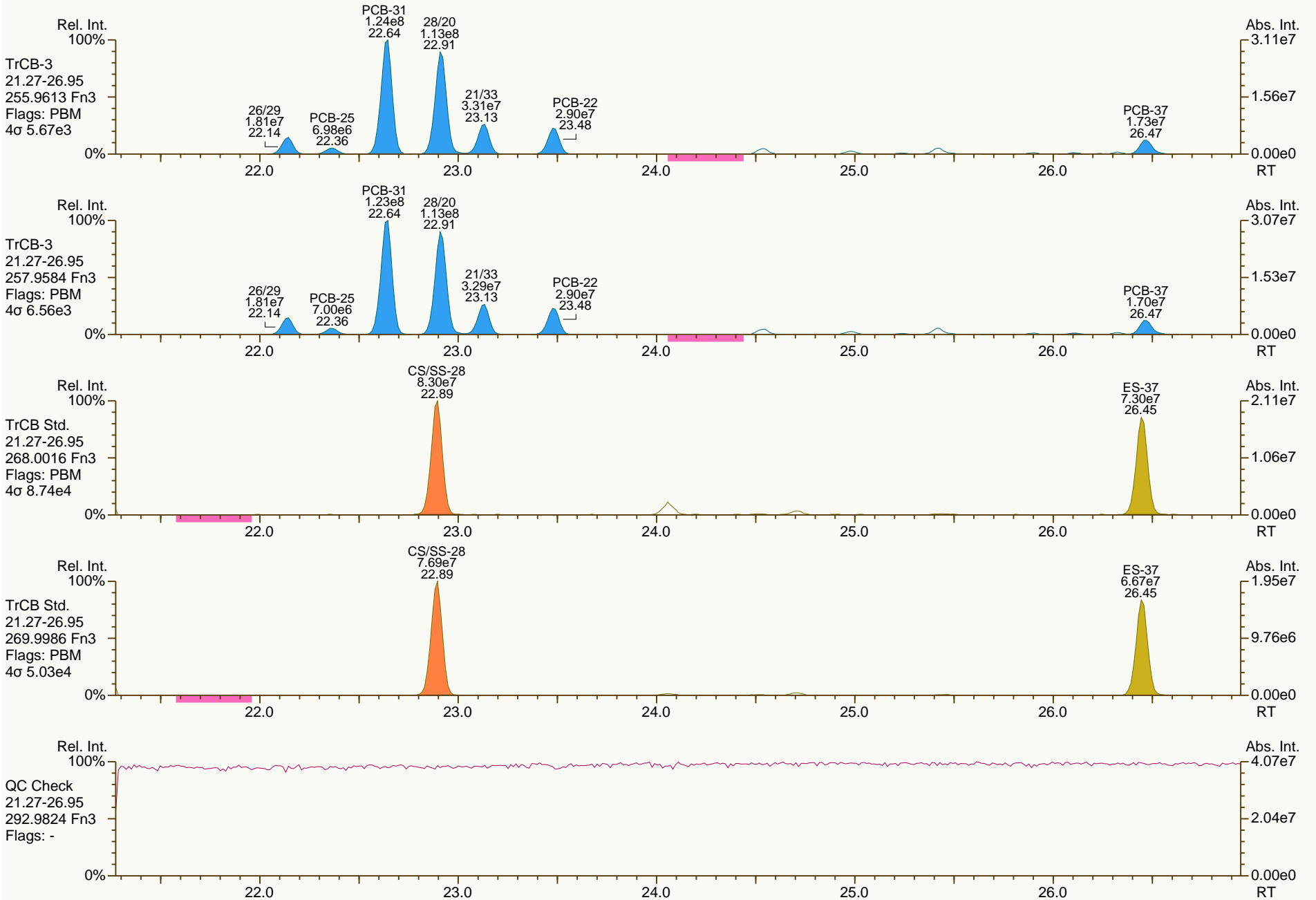




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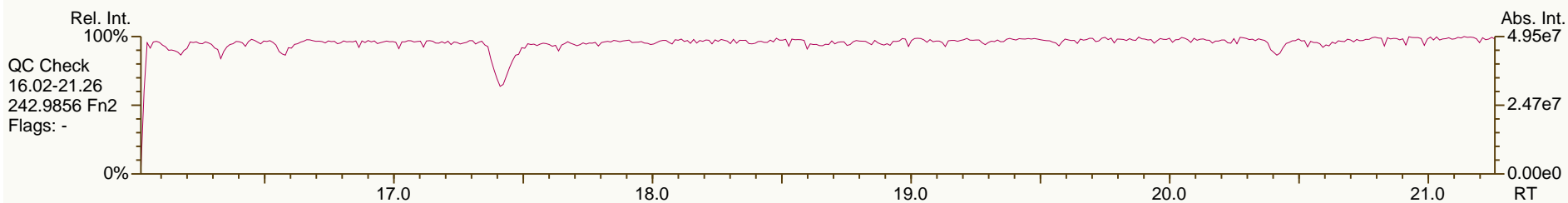
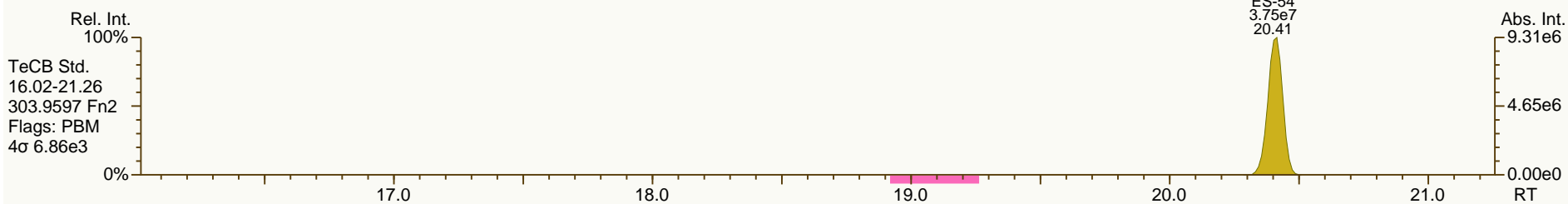
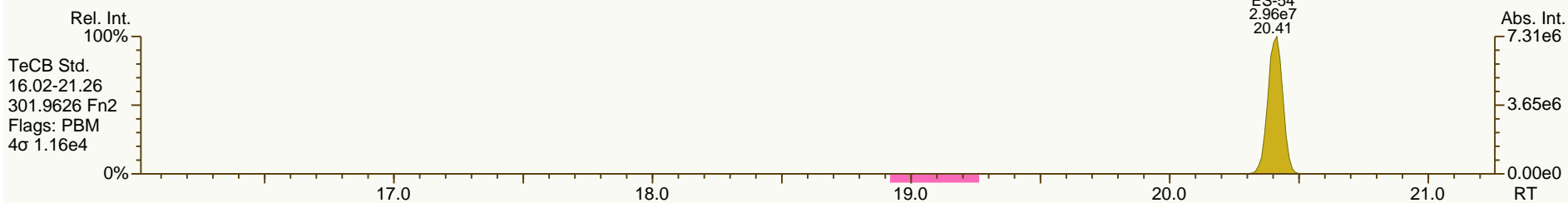
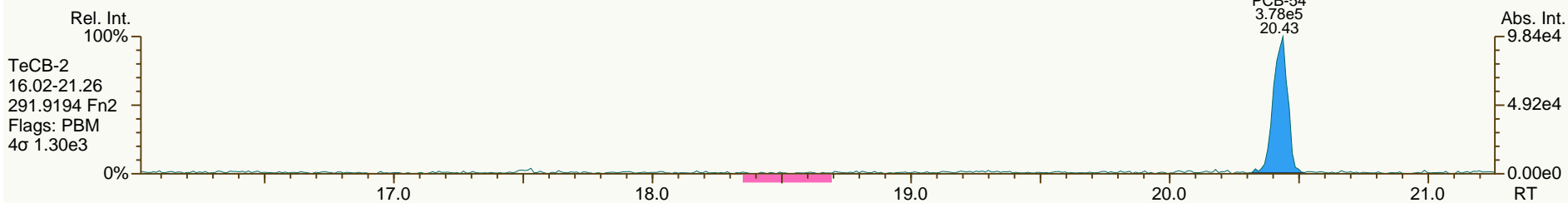
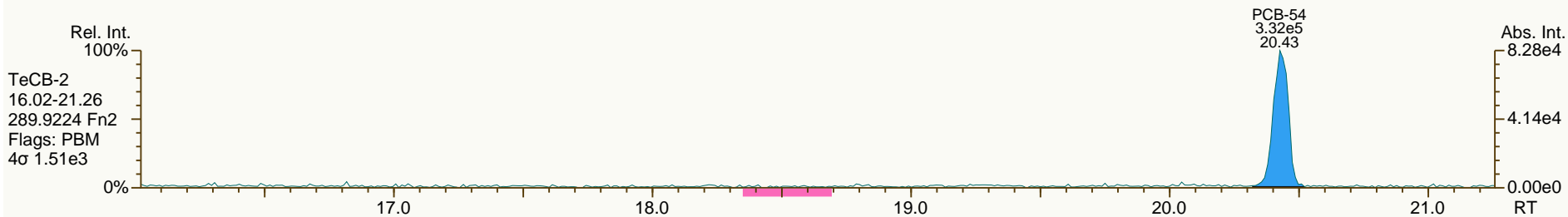
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SGS-AP ID: A6506\_11899\_PCB\_002  
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Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
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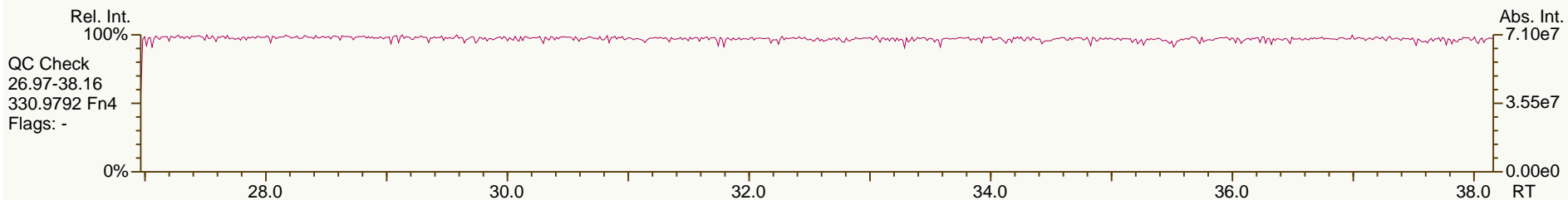
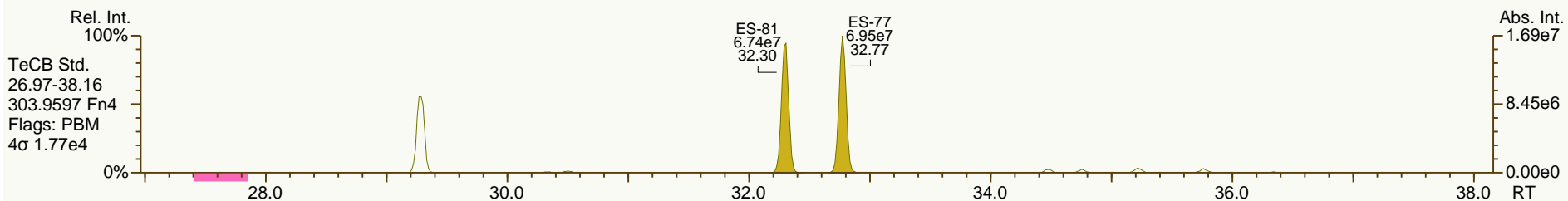
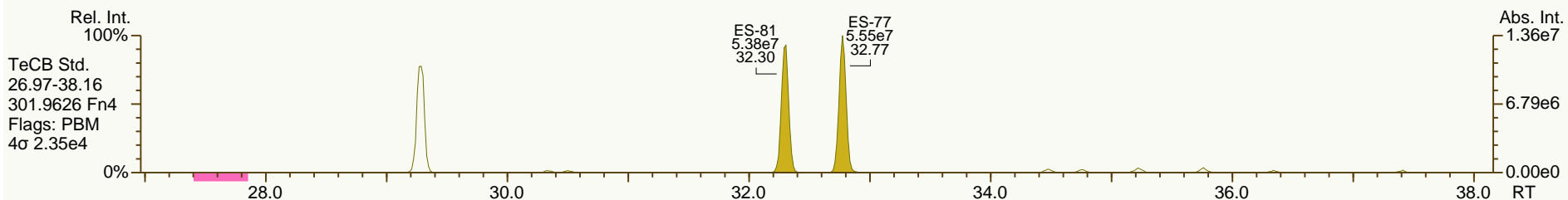
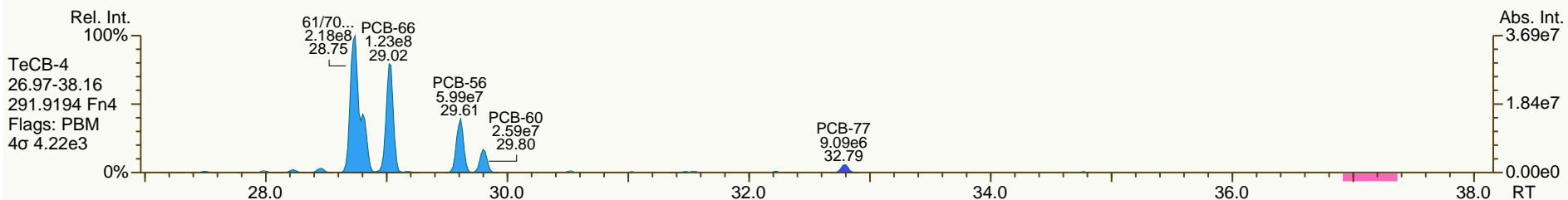
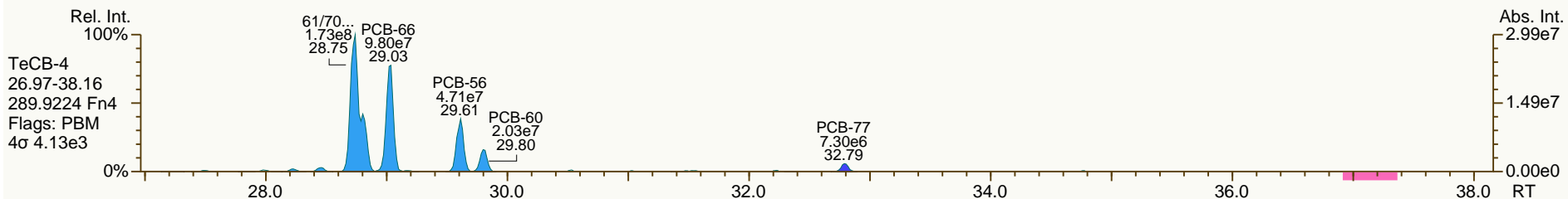
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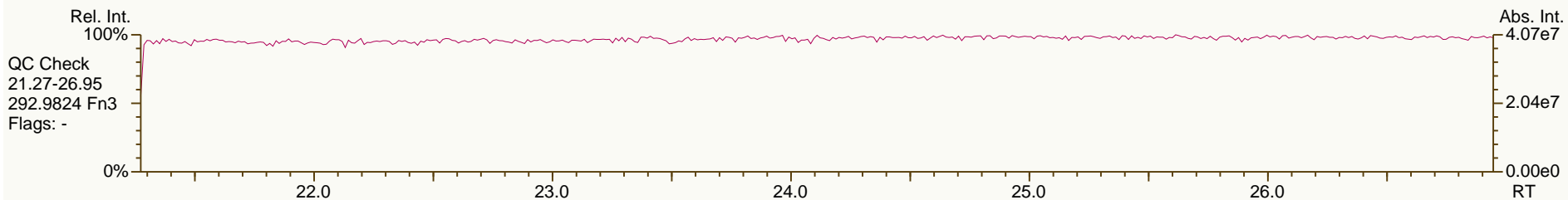
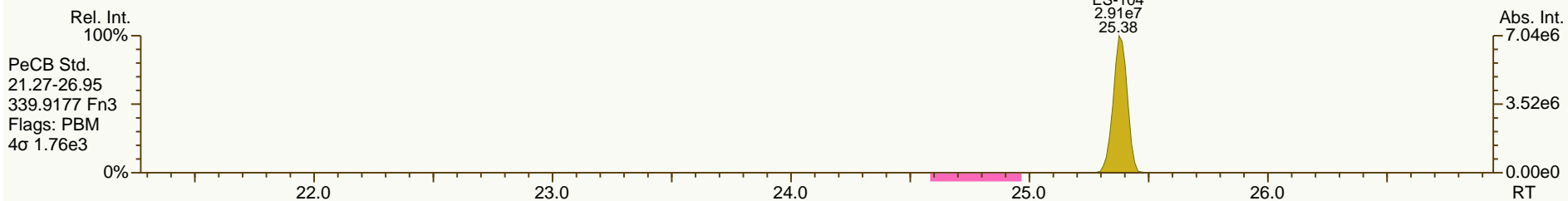
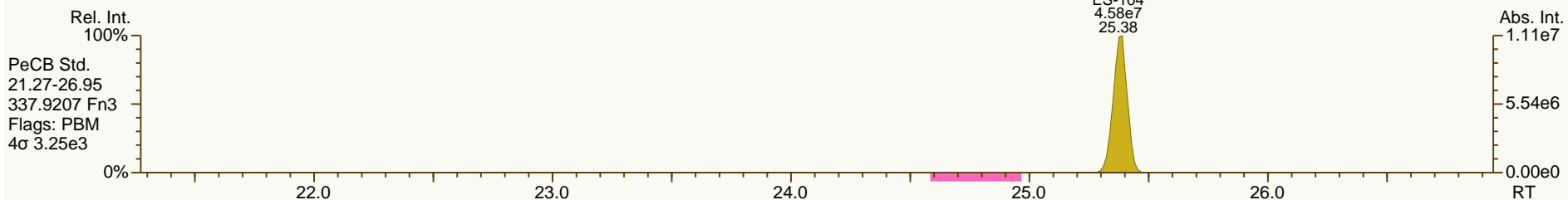
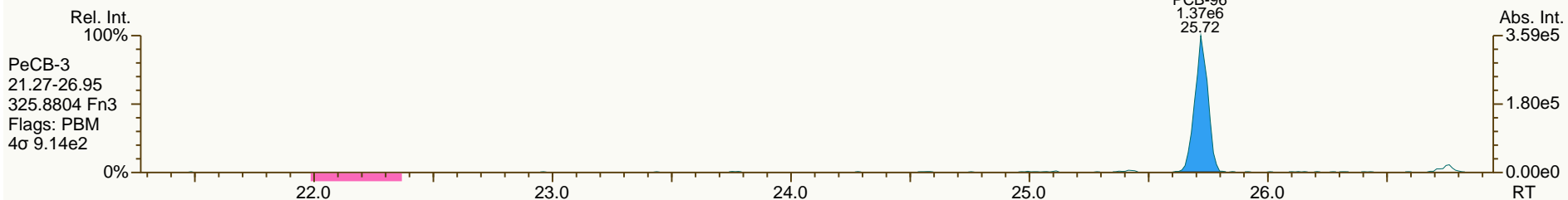
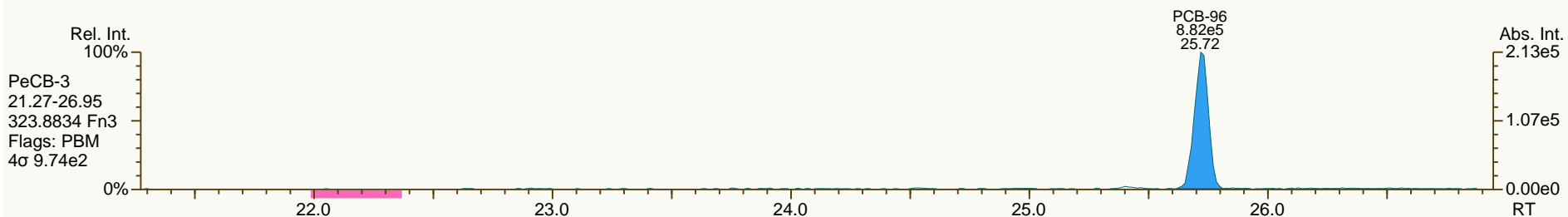
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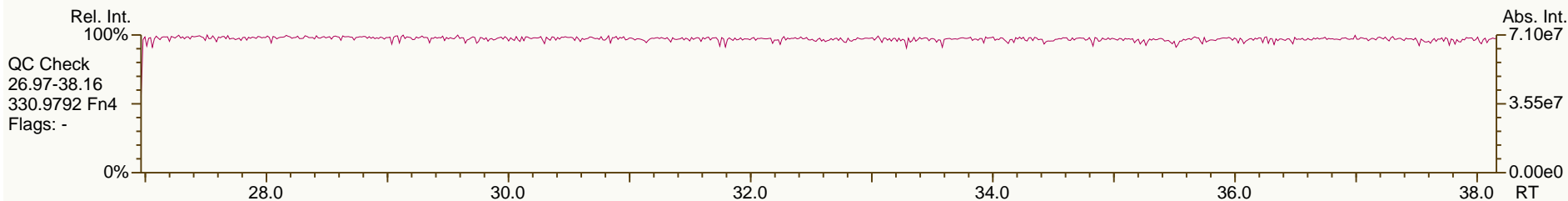
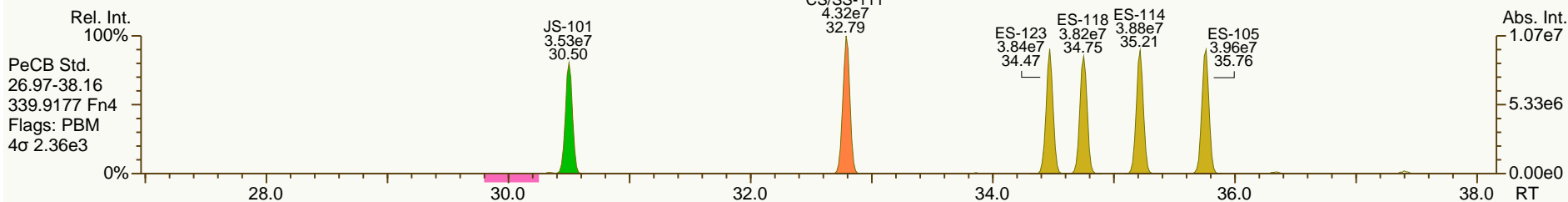
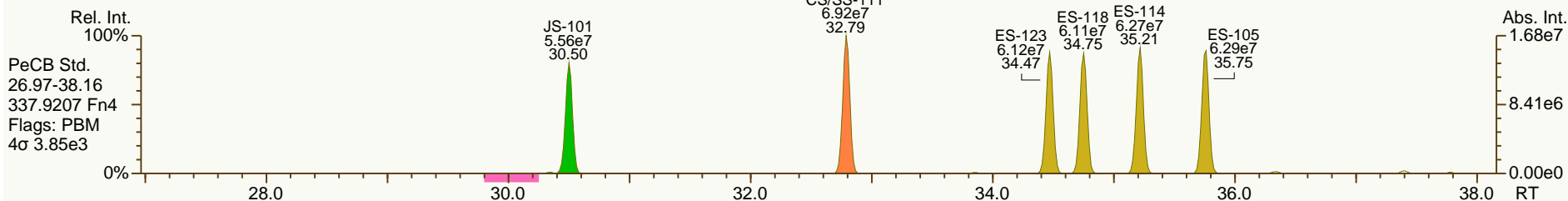
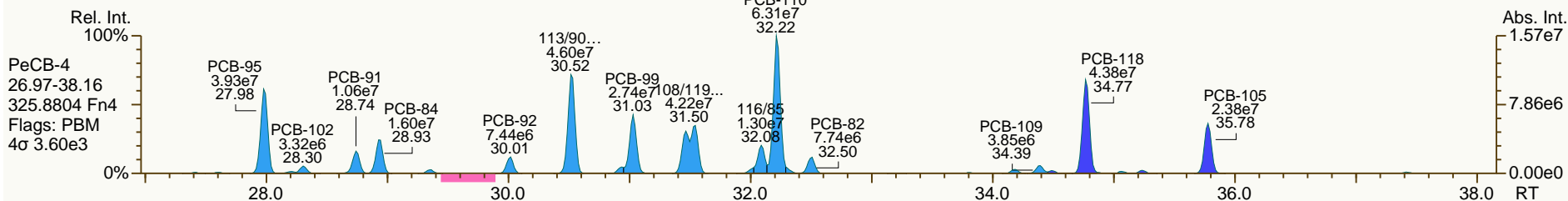
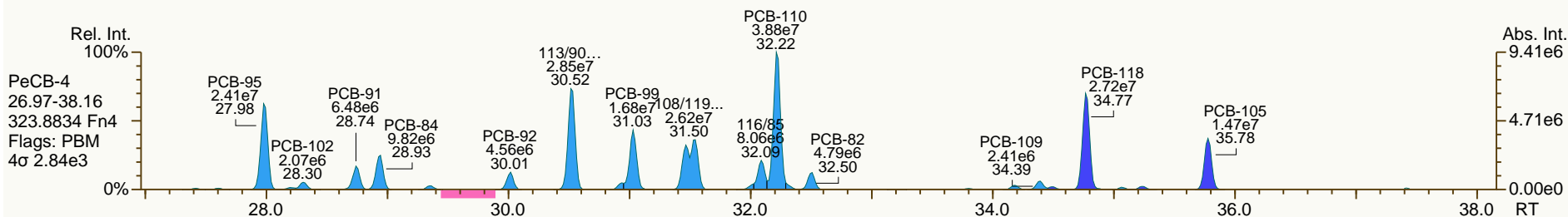
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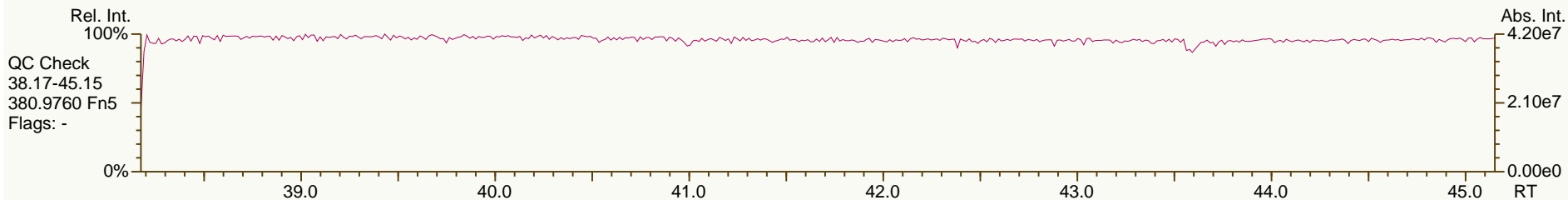
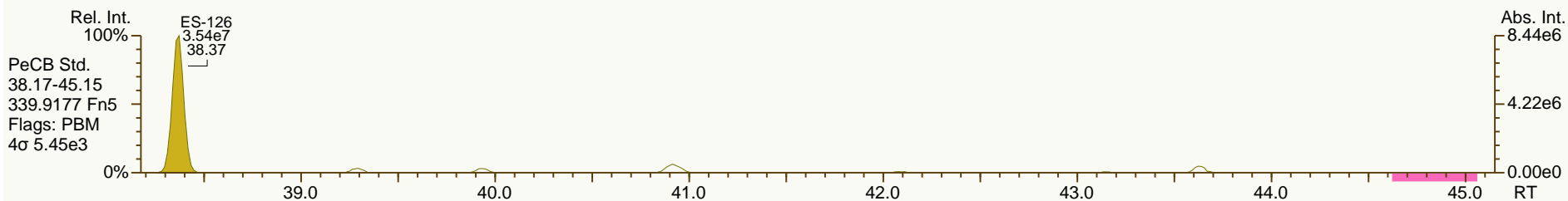
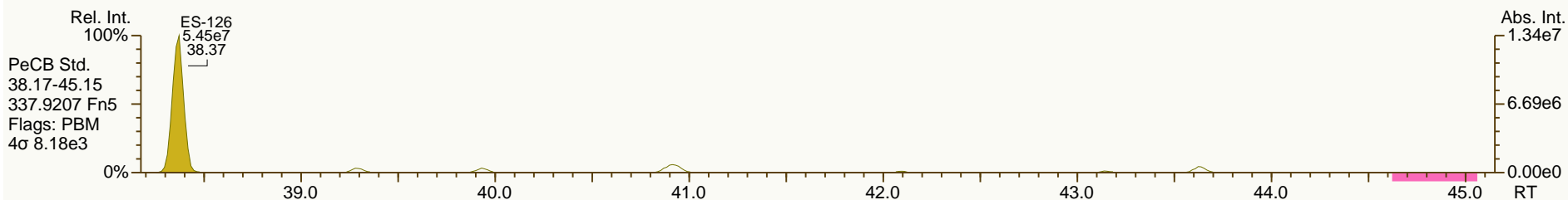
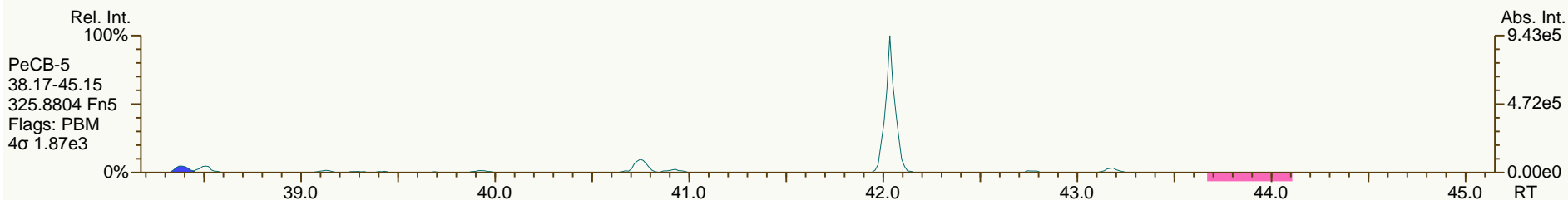
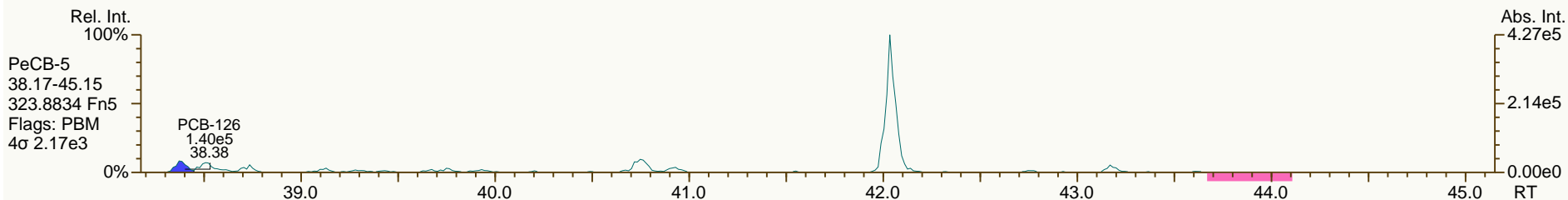
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SGS-AP ID: A6506\_11899\_PCB\_002  
Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

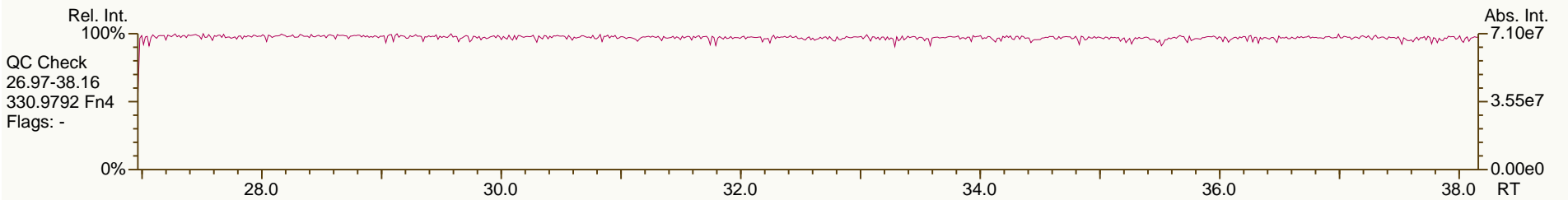
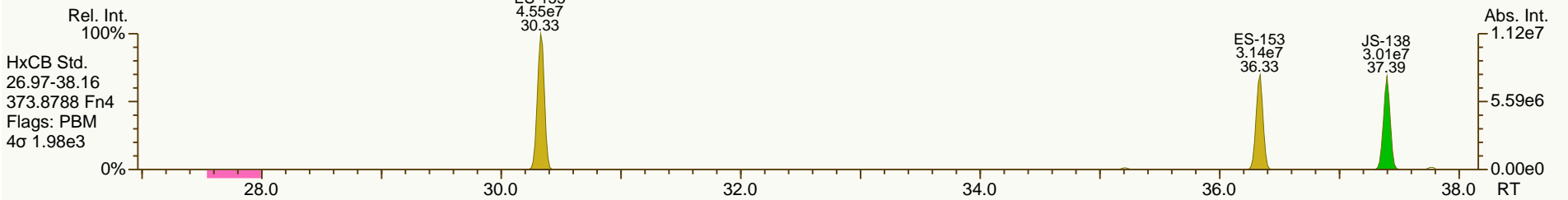
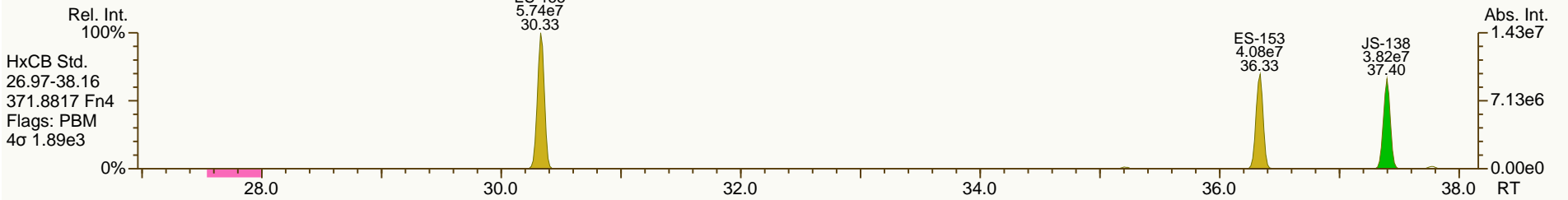
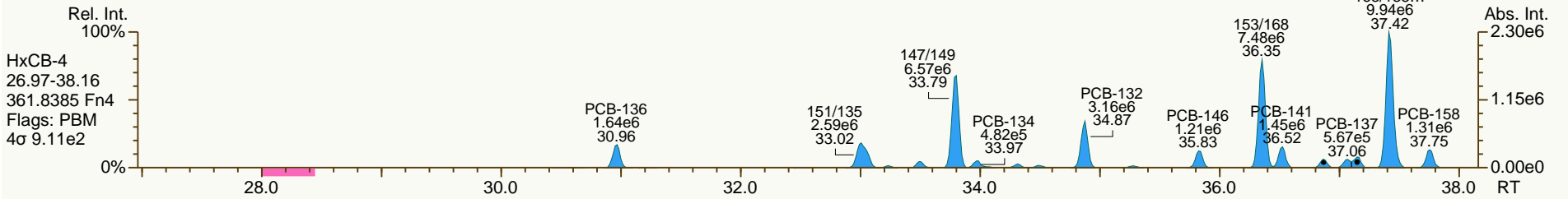
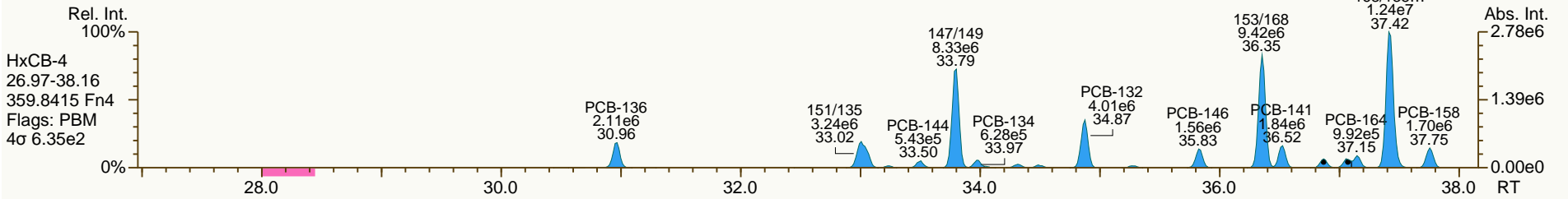
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

Acq: 27-Mar-2014 15:13:30  
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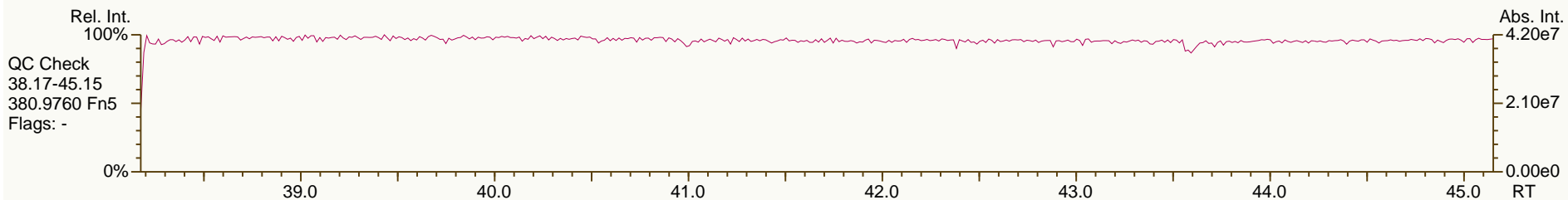
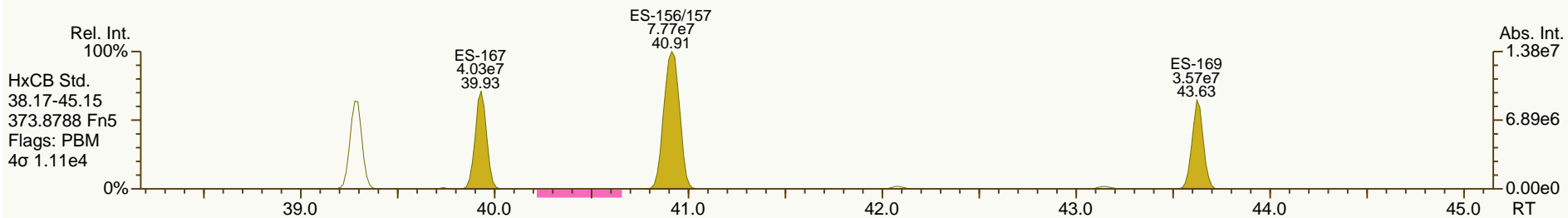
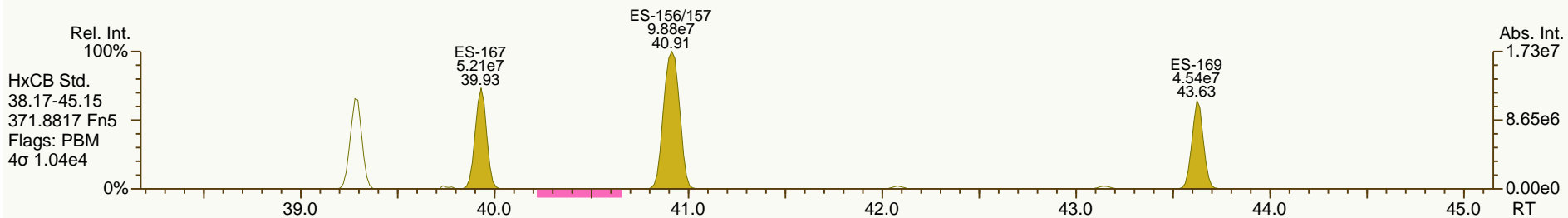
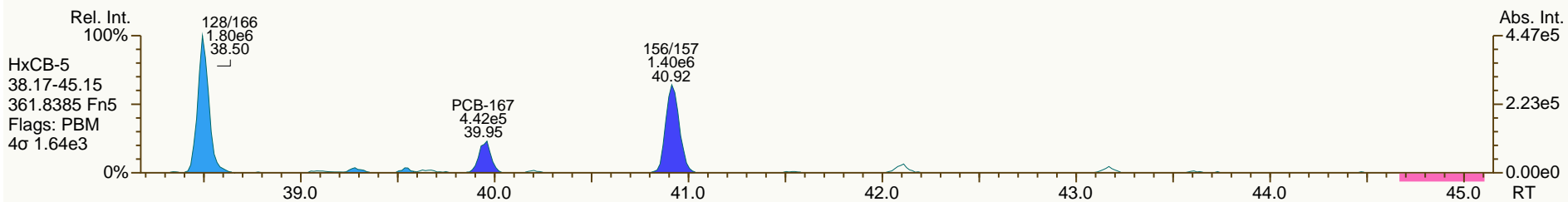
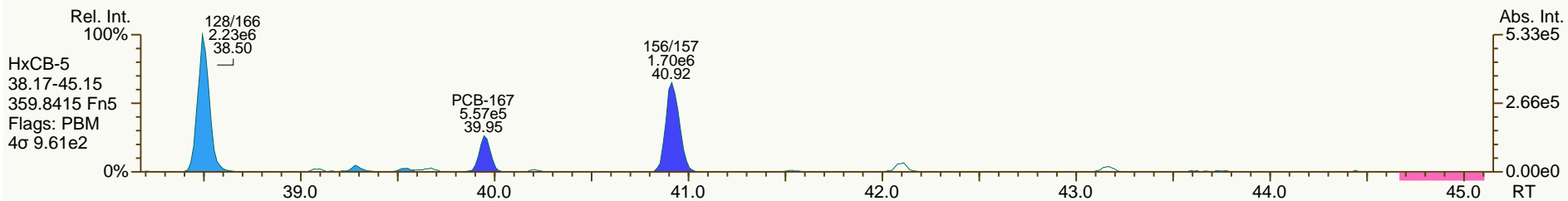




SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

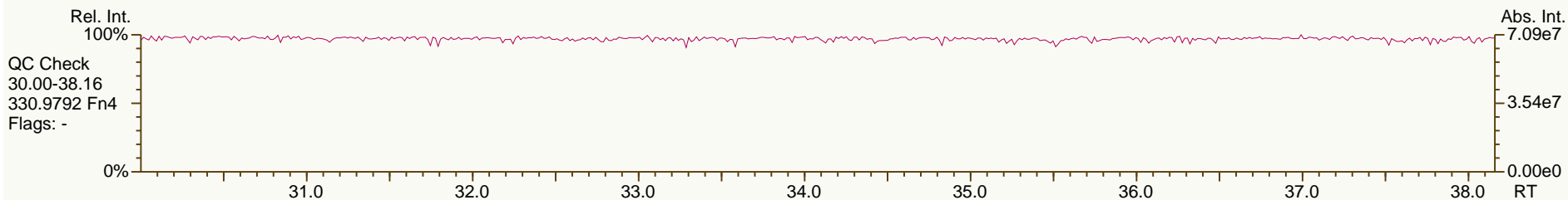
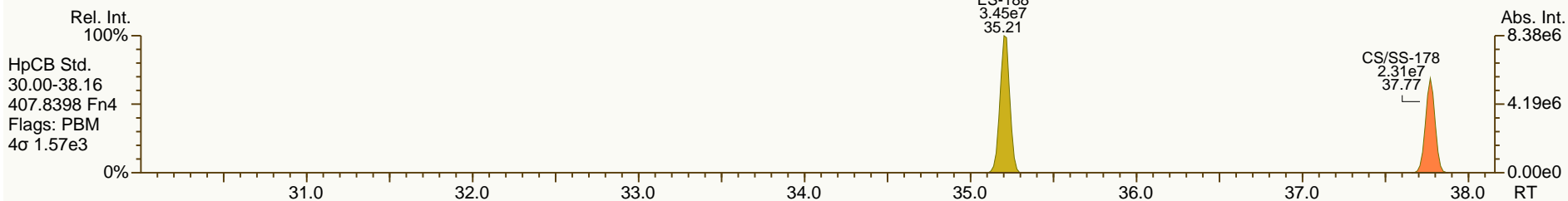
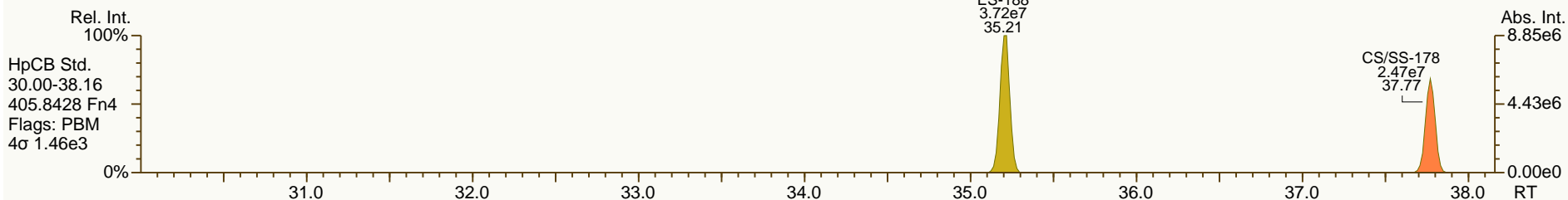
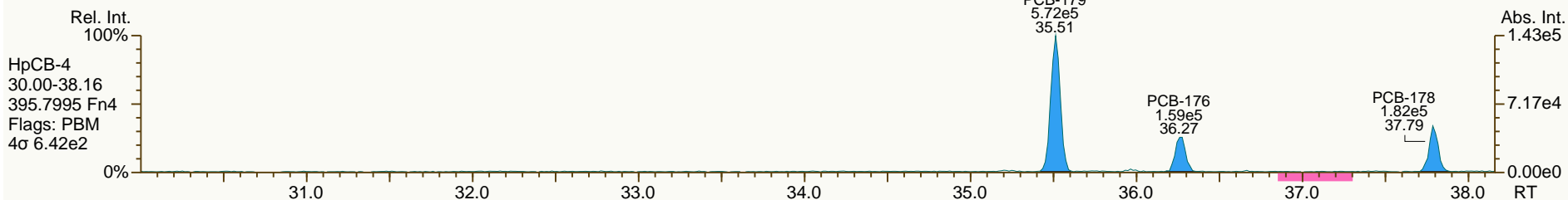
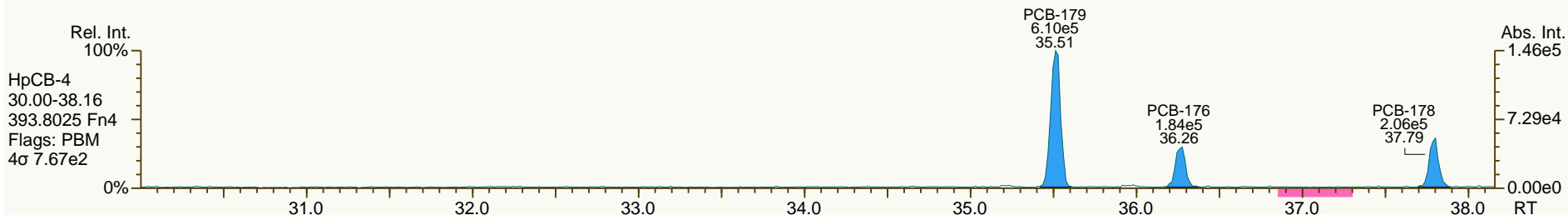
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

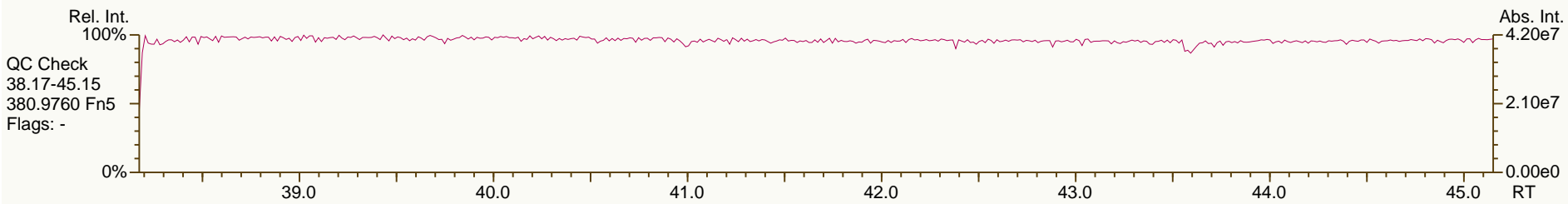
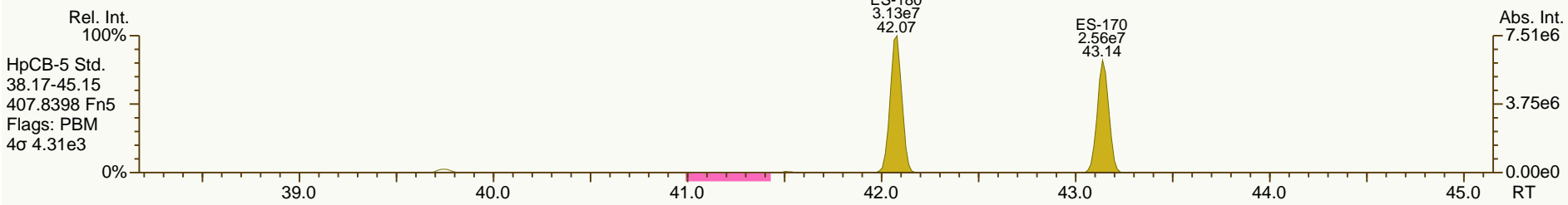
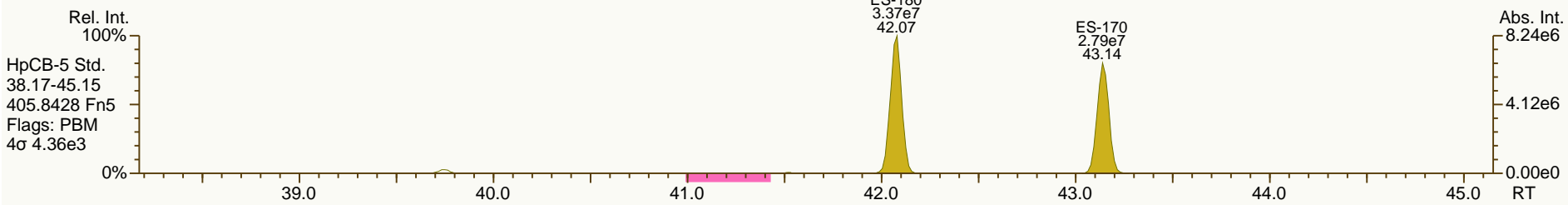
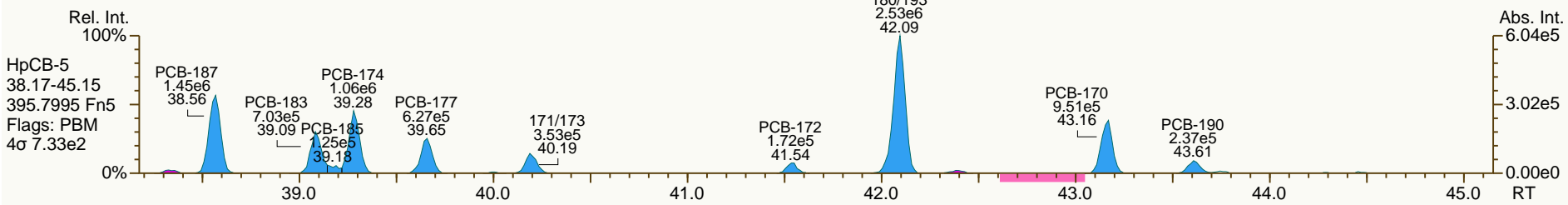
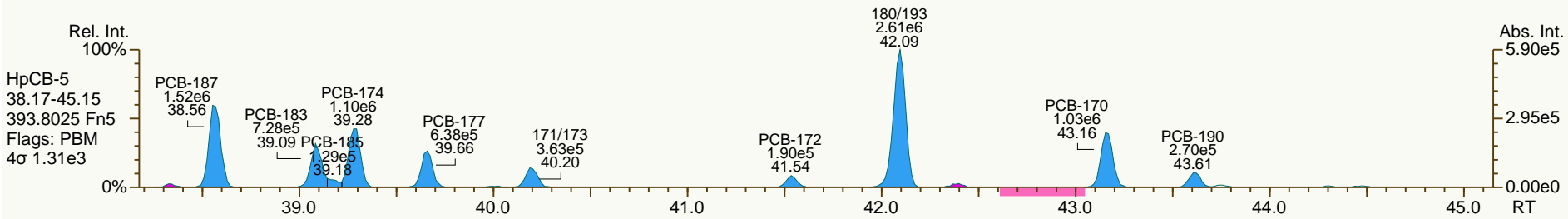
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

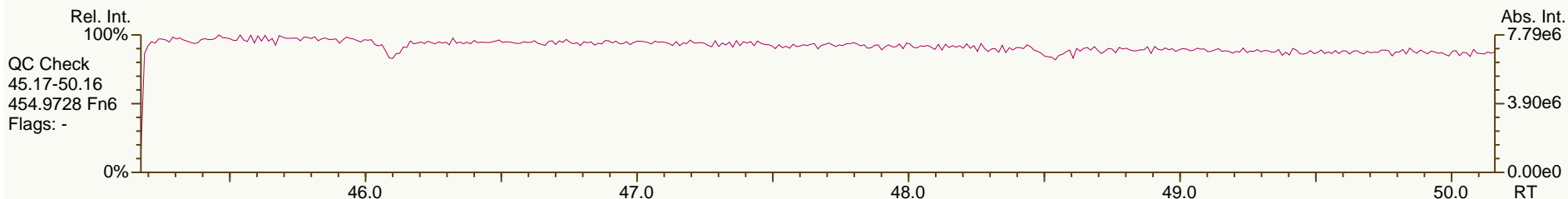
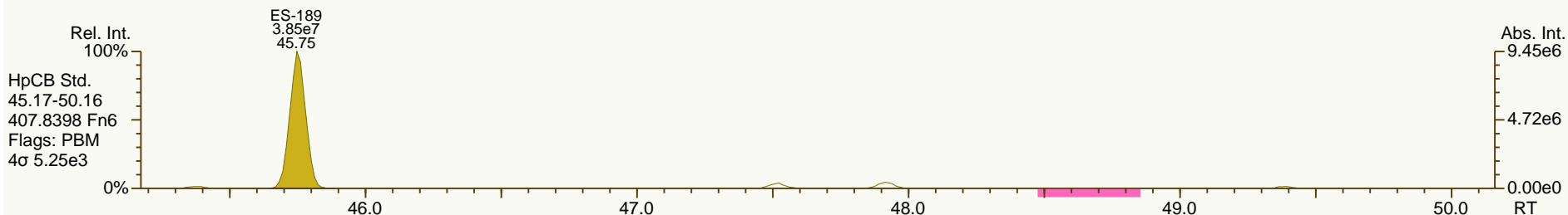
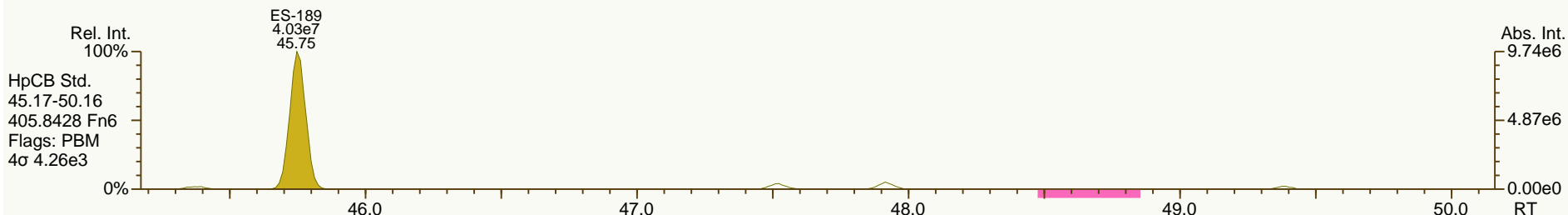
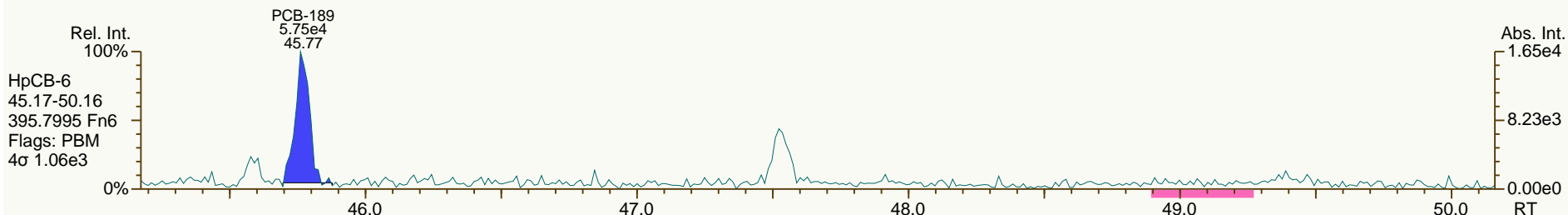
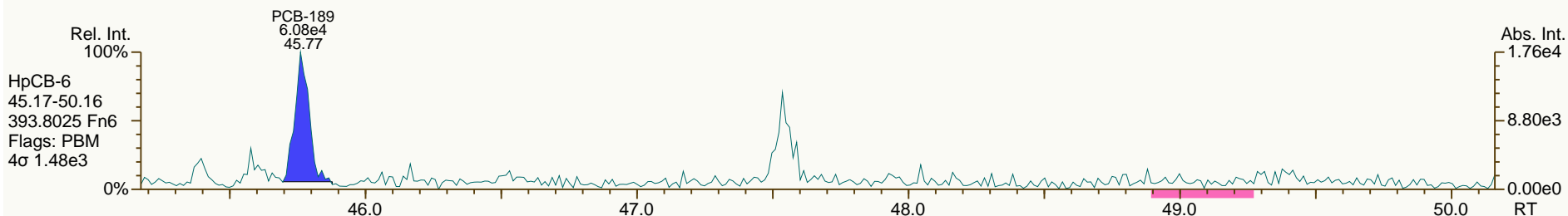
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

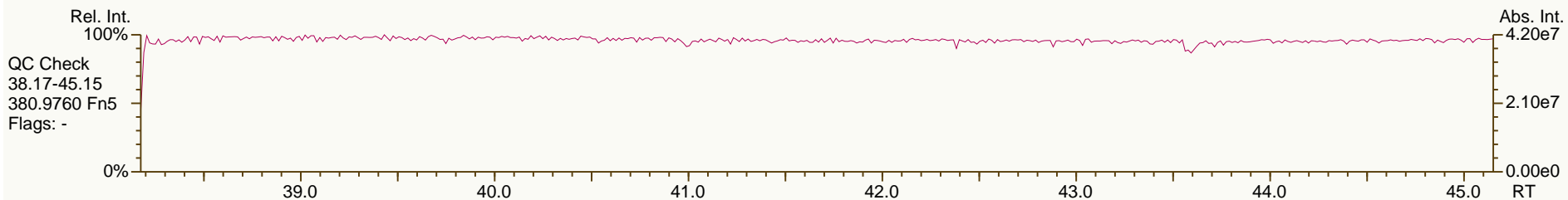
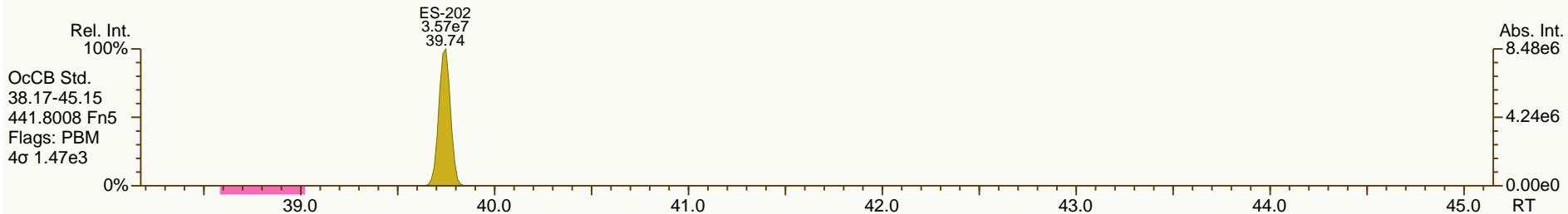
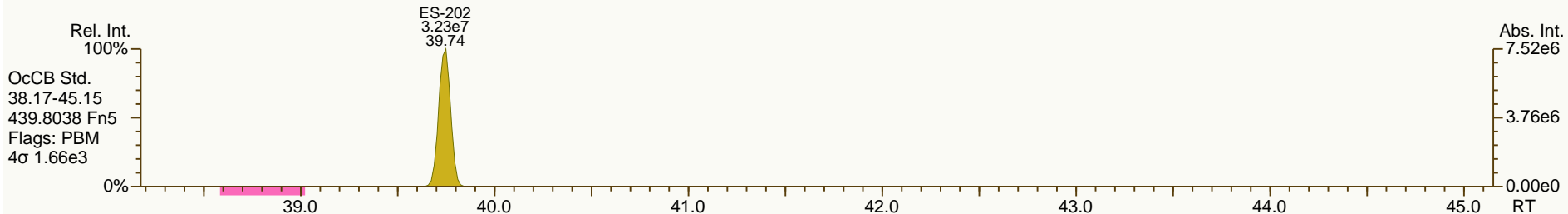
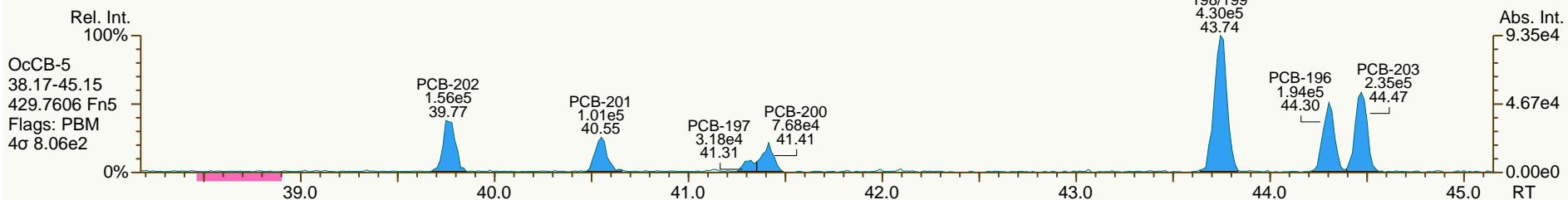
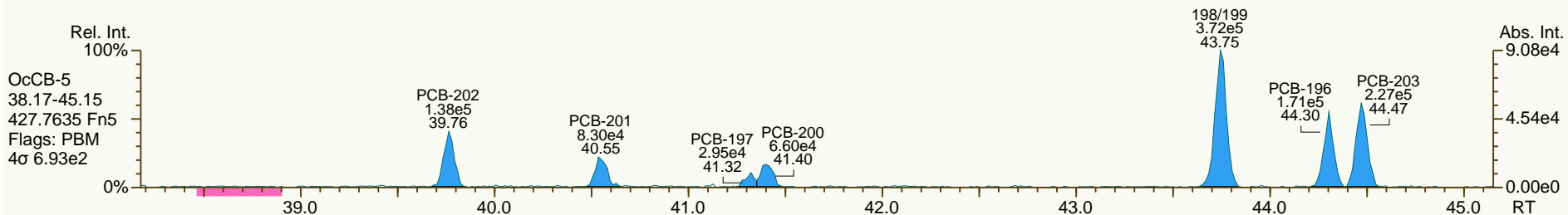
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

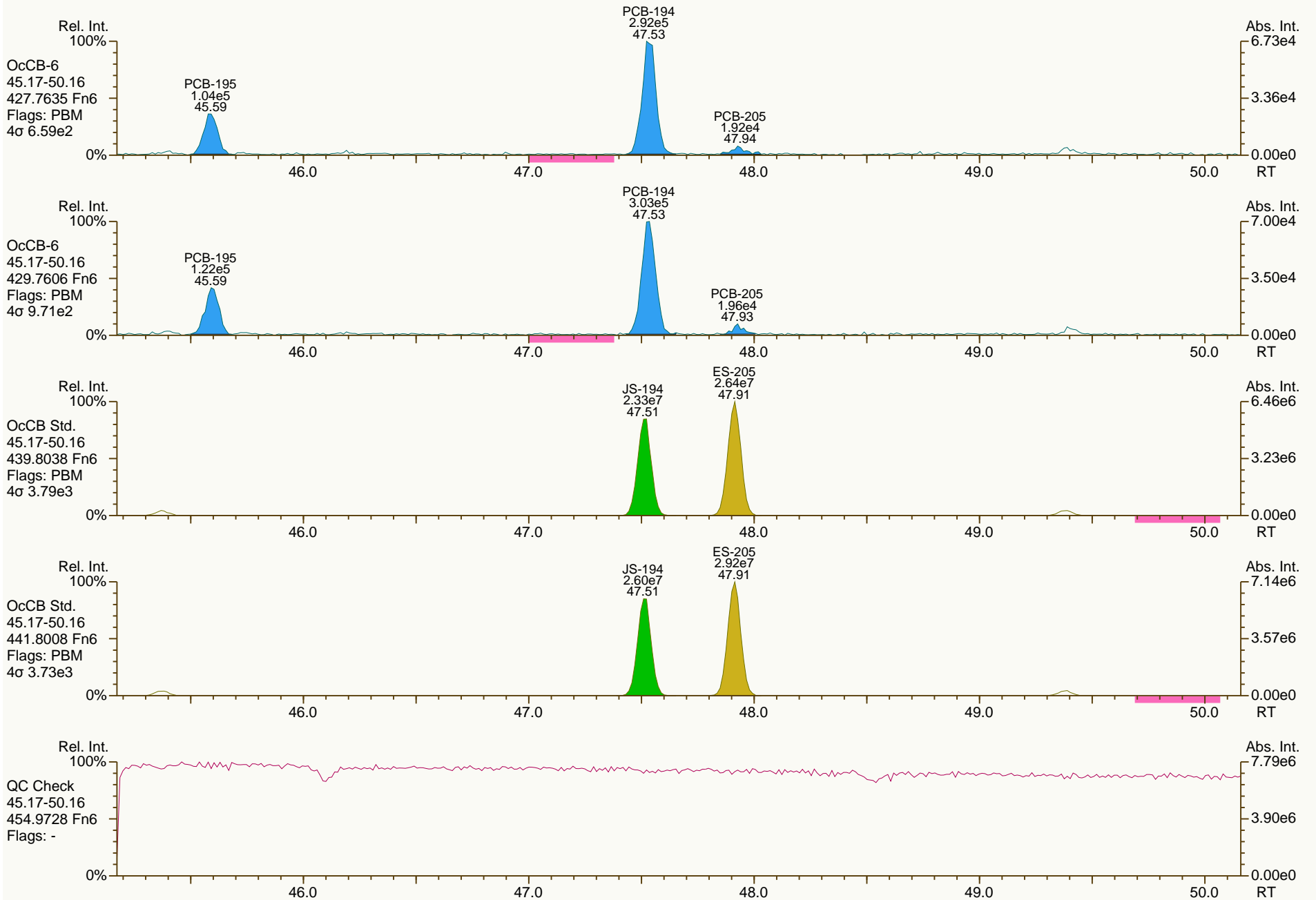
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

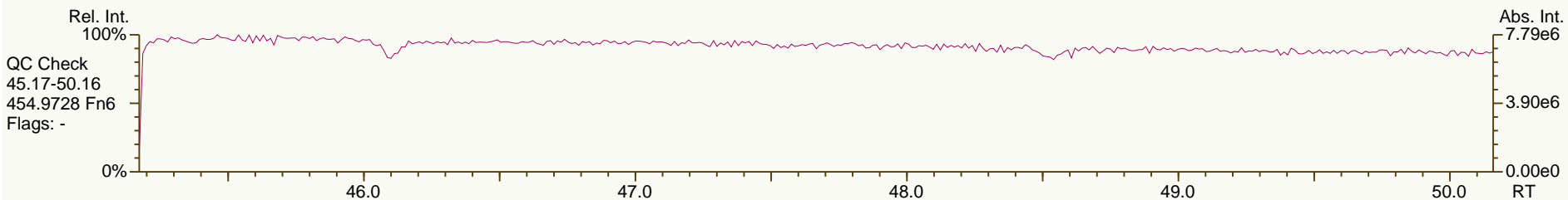
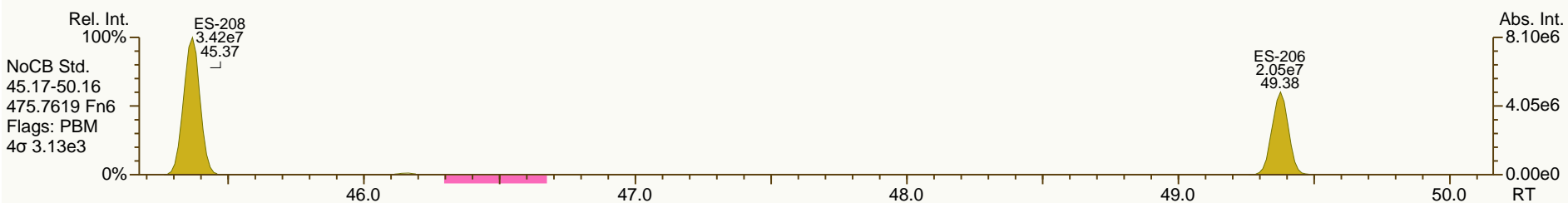
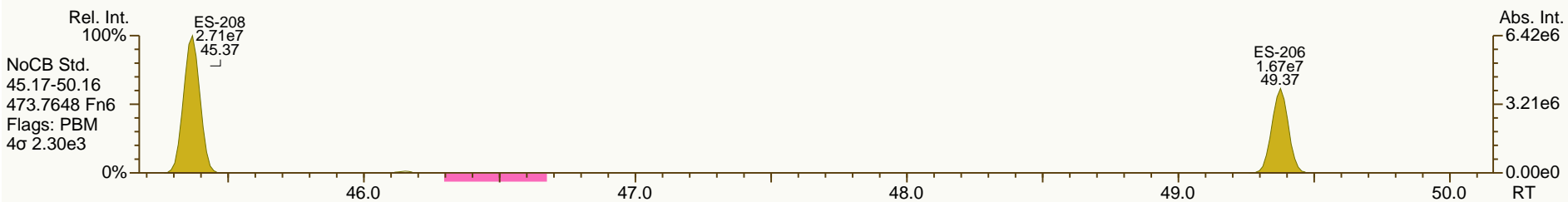
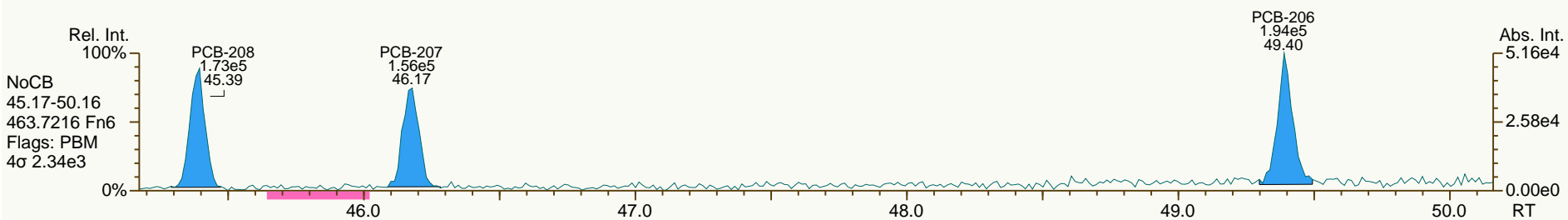
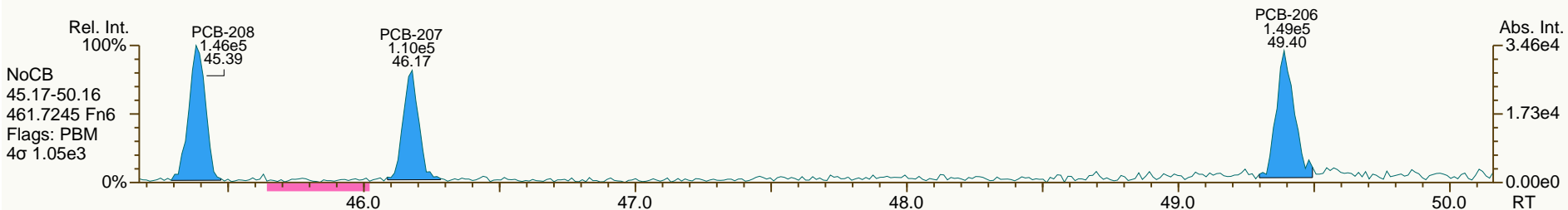
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 50

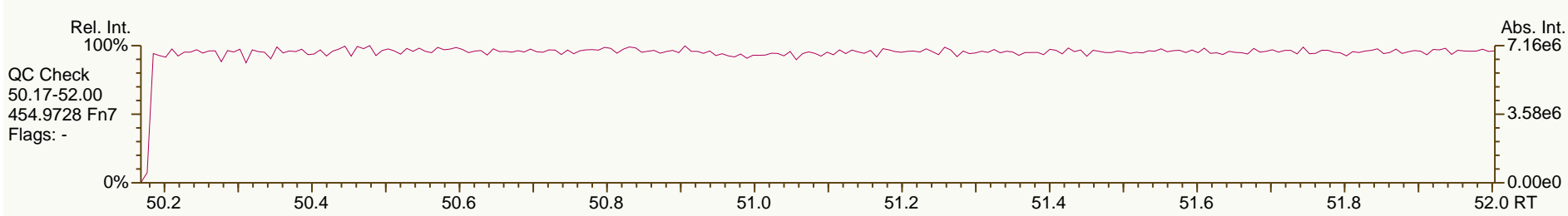
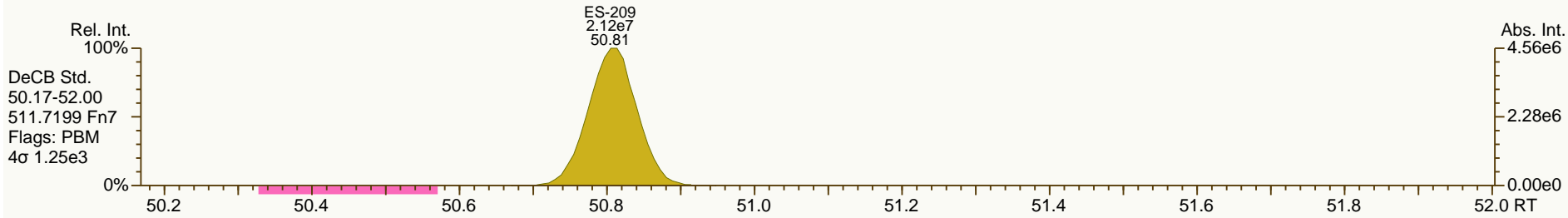
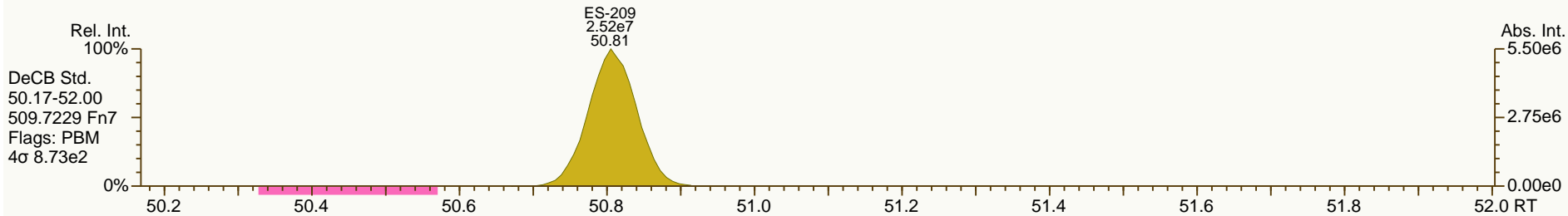
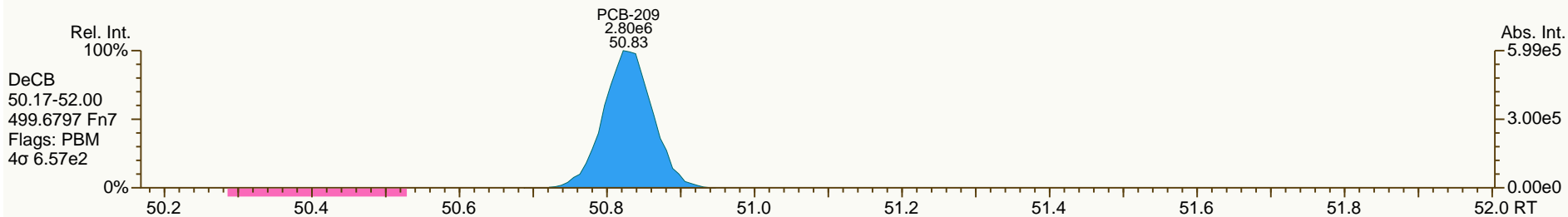
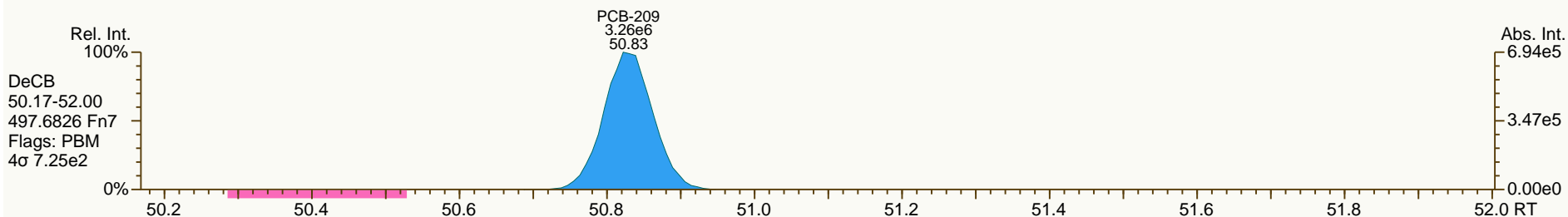
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SGS-AP ID: A6506\_11899\_PCB\_002  
 Instr: AutoSpec-Premier MM7

Sample ID: PB070\_B-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 60

Acq: 27-Mar-2014 15:13:30  
 User: LKB Datafile: 140327X06





Lab ID: A6506\_11899\_PCB\_003

ACQ: 27-Mar-2014 16:08:42 LKB

Wt/Vol: 0.96 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA

Client ID: PB079-1SWMID-140314-N (TOTAL)

UTP: 30-Mar-2014 13:53 LKB

J-level: 10.4 pg/L Split: 1

Checkcode: 109-950-QPX

Datafile: 140327X07

RPT: 30-Mar-2014 14:29 LB

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79		1.0006	1.0006	0	7.49E+06	0.78	1.15	101	6.85E+03	0.959
PCB-81 344'5'-TeCB	32.32	J	1.0005	1.0008	+0.6	2.98E+05	0.72	1.12	4.33	6.85E+03	1.03
PCB-105 233'44'-PeCB	35.77		1.0006	1.0006	0	1.92E+07	0.62	1.11	320	4.29E+03	0.727
PCB-114 2344'5'-PeCB	35.23		1.0007	1.0006	-0.2	1.16E+06	0.64	1.20	18.1	4.29E+03	0.693
PCB-118 23'44'5'-PeCB	34.76		1.0006	1.0006	0	3.50E+07	0.61	1.19	571	4.29E+03	0.725
PCB-123 23'44'5'-PeCB	34.49		1.0006	1.0007	+0.2	1.05E+06	0.59	1.21	16.7	4.29E+03	0.709
PCB-126 33'44'5'-PeCB	38.38	J	1.0005	1.0005	0	1.57E+05	0.70	1.11	3.1	3.61E+03	0.746
PCB-156/157 ...-HxCB	40.91	C	1.0005	1.0002	-0.7	1.55E+06	1.26	1.10	30.9	2.42E+03	0.675
PCB-167 23'44'55'-HxCB	39.94	J	1.0006	1.0005	-0.2	5.07E+05	1.18	1.16	9.03	2.42E+03	0.462
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.42E+03	0.533
PCB-189 233'44'55'-HpCB	45.76	J	1.0004	1.0004	0	6.86E+04	0.92	1.07	1.56	2.02E+03	0.487
PCB-209 DeCB	50.82		1.0004	1.0004	0	3.29E+06	1.20	1.11	121	1.28E+03	0.553
ES PCB-1	11.87		0.7245	0.7245	0	8.19E+07	3.26	1.19	42.5 %	15%	150%
ES PCB-3	14.16		0.8640	0.8640	0	9.88E+07	3.30	1.09	56.3 %	15%	150%
ES PCB-4	14.41		0.8795	0.8793	-0.2	5.35E+07	1.60	0.52	63.4 %	25%	150%
ES PCB-15	20.12		1.2271	1.2277	+0.7	1.60E+08	1.59	1.04	95.1 %	25%	150%
ES PCB-19	17.49		1.0673	1.0673	0	6.14E+07	1.06	0.51	75.1 %	25%	150%
ES PCB-37	26.44		1.0787	1.0790	+0.5	1.44E+08	1.10	1.66	82.5 %	25%	150%
ES PCB-54	20.40		0.8328	0.8325	-0.4	6.78E+07	0.78	0.86	75.1 %	25%	150%
ES PCB-77	32.77		1.3364	1.3371	+1.4	1.34E+08	0.81	1.38	92.1 %	25%	150%
ES PCB-81	32.29		1.3170	1.3177	+1.4	1.28E+08	0.79	1.37	89.5 %	25%	150%
ES PCB-104	25.37		0.8325	0.8322	-0.5	7.50E+07	1.59	0.80	93.2 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	1.12E+08	1.62	1.20	93 %	25%	150%
ES PCB-114	35.21		1.1543	1.1547	+0.8	1.11E+08	1.60	1.22	90.9 %	25%	150%
ES PCB-118	34.74		1.1391	1.1394	+0.6	1.07E+08	1.57	1.16	92.2 %	25%	150%
ES PCB-123	34.46		1.1299	1.1302	+0.6	1.08E+08	1.57	1.19	90.5 %	25%	150%
ES PCB-126	38.36		1.2575	1.2580	+1.2	9.53E+07	1.59	1.03	92.6 %	25%	150%
ES PCB-153	36.33		0.9716	0.9716	0	7.57E+07	1.28	1.11	85.4 %	25%	150%
ES PCB-155	30.32		0.8114	0.8111	-0.5	1.03E+08	1.29	1.59	82.3 %	25%	150%
ES PCB-156/157	40.91		1.0939	1.0941	+0.5	1.90E+08	1.28	1.60	75.6 %	25%	150%
ES PCB-167	39.92		1.0677	1.0678	+0.2	1.01E+08	1.28	1.67	76.6 %	25%	150%
ES PCB-169	43.62		1.1664	1.1667	+0.8	8.78E+07	1.27	1.56	71.7 %	25%	150%
ES PCB-170	43.13		0.9081	0.9080	-0.3	5.84E+07	1.08	0.95	88.1 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	7.02E+07	1.08	1.14	87.7 %	25%	150%
ES PCB-188	35.20		0.7413	0.7410	-0.6	7.33E+07	1.07	0.94	99.1 %	25%	150%
ES PCB-189	45.74		0.9629	0.9629	0	8.55E+07	1.04	1.58	94.4 %	25%	150%
ES PCB-202	39.74		0.8366	0.8364	-0.5	7.14E+07	0.90	0.97	93.5 %	25%	150%
ES PCB-205	47.91		1.0084	1.0084	0	6.12E+07	0.89	1.24	86 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	4.07E+07	0.80	0.83	85.7 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	6.72E+07	0.79	1.17	100 %	25%	150%
ES PCB-209	50.80		1.0694	1.0694	0	5.07E+07	1.17	1.11	79.8 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	1.71E+08	1.08	1.11	107 %	30%	135%
SS PCB-111	32.78		1.0750	1.0751	+0.2	1.25E+08	1.59	1.03	113 %	30%	135%
SS PCB-178	37.76		1.0100	1.0100	0	5.34E+07	1.06	0.62	118 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	1.71E+08	1.08	1.85	88.5 %	30%	135%
CS PCB-111	32.78		1.0750	1.0751	+0.2	1.25E+08	1.59	1.22	103 %	30%	135%
CS PCB-178	37.76		1.0100	1.0100	0	5.34E+07	1.06	0.58	117 %	30%	135%
JS PCB-9	16.39					1.62E+08	1.56				
JS PCB-52	24.51					1.05E+08	0.79				
JS PCB-101	30.49					1.00E+08	1.60				
JS PCB-138	37.39					7.87E+07	1.32				
JS PCB-194	47.51					5.73E+07	0.90				
					<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
					Mono-CBs	61.2	61.2	0.916			
					Di-CBs	746	746	1.79			
					Tri-CBs	7,160	7,170	1.53			
					Tetra-CBs	14,100	14,100	0.758			
					Penta-CBs	5,540	5,540	0.663			
					Hexa-CBs	1,170	1,180	0.486			
					Hepta-CBs	271	282	0.532			
					Octa-CBs	63.8	66.1	0.508			
					Nona-CBs	18.5	18.5	1.18			
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	1.87E+06	3.27	0.95	49.8	5.82E+03	0.952
PCB-2 3-MoCB	13.99	J	0.9880	0.9879	-0.1	1.91E+05	3.21	1.20	3.36	5.82E+03	0.743
PCB-3 4-MoCB	14.17	J	1.0010	1.0010	0	3.88E+05	3.25	1.01	8.1	5.82E+03	0.881
PCB-4 22'-DiCB	14.43		1.0011	1.0011	0	9.50E+06	1.57	1.23	300	9.63E+03	2.27
PCB-10 26'-DiCB	14.61		1.0135	1.0136	+0.1	5.69E+05	SI	1.90	11.6	9.63E+03	1.47
PCB-9 25'-DiCB	16.41		1.0010	1.0010	0	9.35E+05	SI	1.01	12	1.12E+04	1.33
PCB-7 24'-DiCB	16.57	J	1.0111	1.0112	+0.1	5.08E+05	SI	1.14	5.81	1.12E+04	1.18
PCB-6 23'-DiCB	16.80		1.0249	1.0249	0	5.65E+06	1.63	1.06	69.1	1.12E+04	1.26
PCB-5 23'-DiCB	17.10	J	1.0433	1.0433	0	2.52E+05	SI	1.07	3.05	1.12E+04	1.25
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	1.50E+07	1.64	1.10	177	1.12E+04	1.22
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	1.12E+04	1.05
PCB-11 33'-DiCB	19.56	B	0.9721	0.9720	-0.1	2.38E+06	1.62	1.10	28.1	1.12E+04	1.22
PCB-13/12 34'/34'-DiCB	19.83	C	0.9866	0.9855	-1.3	1.95E+06	1.54	1.10	23.1	1.12E+04	1.23
PCB-15 44'-DiCB	20.13		1.0008	1.0006	-0.2	9.12E+06	1.65	1.02	116	1.12E+04	1.32
PCB-19 22'6-TrCB	17.51		1.0010	1.0010	0	6.51E+06	1.02	1.15	192	6.86E+03	1.7
PCB-30/18 246/22'5-TrCB	19.28	C	1.1014	1.1020	+0.7	7.50E+07	1.04	1.54	1,660	6.86E+03	1.27
PCB-17 22'4-TrCB	19.67		1.1243	1.1246	+0.4	2.20E+07	1.06	1.32	564	6.86E+03	1.48
PCB-27 23'6-TrCB	19.86		1.1353	1.1356	+0.4	5.44E+06	1.08	1.80	102	6.86E+03	1.09
PCB-24 236-TrCB	19.99	J	1.1430	1.1426	-0.5	4.58E+05	1.07	1.71	9.1	6.86E+03	1.15
PCB-16 22'3-TrCB	20.09		1.1484	1.1487	+0.4	1.75E+07	1.05	1.01	585	6.86E+03	1.93
PCB-32 24'6-TrCB	20.57		1.1758	1.1762	+0.5	3.04E+07	1.07	1.90	543	6.86E+03	1.03

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.72	J	0.8218	0.8215	-0.4	4.47E+05	1.07	1.28	5.08	9.88E+03	1.14
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	9.88E+03	1.14
PCB-26/29 23'5'/245-TrCB	22.13	C	0.8383	0.8371	-1.6	1.76E+07	1.02	1.29	198	9.88E+03	1.13
PCB-25 23'4'-TrCB	22.36		0.8456	0.8455	-0.1	9.35E+06	0.99	1.28	105	9.88E+03	1.13
PCB-31 24'5'-TrCB	22.63		0.8562	0.8560	-0.3	1.08E+08	1.01	1.34	1,160	9.88E+03	1.08
PCB-28/20 244'/233'-TrCB	22.91	C	0.8670	0.8664	-0.8	1.02E+08	1.01	1.25	1,180	9.88E+03	1.16
PCB-21/33 234'/23'4'-TrCB	23.12	C	0.8738	0.8744	+0.8	2.84E+07	1.01	1.29	320	9.88E+03	1.13
PCB-22 234'-TrCB	23.48		0.8880	0.8878	-0.3	2.64E+07	1.00	1.20	318	9.88E+03	1.21
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	9.88E+03	1.1
PCB-39 34'5'-TrCB	25.22	J	0.9522	0.9540	+2.7	9.28E+05	1.02	1.36	9.9	9.88E+03	1.07
PCB-38 345-TrCB	25.72	J EMPC	0.9723	0.9728	+0.8	2.47E+05	1.48	1.21	2.95	9.88E+03	1.19
PCB-35 33'4'-TrCB	26.10		0.9871	0.9871	0	1.34E+06	1.07	1.16	16.8	9.88E+03	1.26
PCB-37 344'-TrCB	26.46		1.0007	1.0009	+0.3	1.51E+07	1.03	1.08	203	9.88E+03	1.35
PCB-54 22'66'-TeCB	20.42	J	1.0010	1.0009	-0.1	3.56E+05	0.85	1.35	8.1	2.78E+03	0.575
PCB-50/53 22'46'/22'56'-TeCB	22.38	C	0.9145	0.9134	-1.5	2.00E+07	0.80	0.92	351	3.32E+03	0.602
PCB-45 22'36'-TeCB	23.00		0.9383	0.9385	+0.3	1.82E+07	0.78	0.80	370	3.32E+03	0.696
PCB-51 22'46'-TeCB	23.08		0.9413	0.9416	+0.4	4.69E+06	0.82	0.93	82.3	3.32E+03	0.602
PCB-46 22'36'-TeCB	23.28		0.9499	0.9498	-0.1	6.46E+06	0.78	0.73	143	3.32E+03	0.76
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	1.24E+08	0.79	0.89	2,260	3.32E+03	0.623
PCB-73 23'5'6'-TeCB	24.66	J	1.0062	1.0061	-0.1	3.00E+05	0.79	1.18	4.14	3.32E+03	0.472
PCB-43 22'35'-TeCB	24.75		1.0101	1.0101	0	3.42E+06	0.78	0.77	72	3.32E+03	0.722
PCB-69/49 23'46'/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	7.50E+07	0.79	1.10	1,110	3.32E+03	0.507
PCB-48 22'45'-TeCB	25.23		1.0295	1.0296	+0.2	2.05E+07	0.78	0.91	367	3.32E+03	0.614
PCB-44/47/65 ...-TeCB	25.42	C	1.0384	1.0374	-1.5	1.14E+08	0.79	0.96	1,930	3.32E+03	0.577
PCB-59/62/75 ...-TeCB	25.71	C	1.0496	1.0493	-0.5	1.08E+07	0.80	1.25	140	3.32E+03	0.446
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	2.51E+07	0.80	0.83	490	3.32E+03	0.67
PCB-41 22'34'-TeCB	26.22		1.0698	1.0698	0	6.48E+06	0.77	0.73	144	3.32E+03	0.763
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	5.00E+07	0.80	0.93	874	3.32E+03	0.599
PCB-64 234'6'-TeCB	26.52		1.0819	1.0820	+0.2	6.11E+07	0.78	1.32	752	3.32E+03	0.423
PCB-72 23'55'-TeCB	27.23	J	0.8436	0.8433	-0.5	6.70E+05	0.67	1.29	8.43	6.85E+03	0.891
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	2.15E+06	0.79	1.37	25.6	6.85E+03	0.842
PCB-57 233'5'-TeCB	27.86	J	0.8630	0.8628	-0.3	4.21E+05	0.74	1.23	5.56	6.85E+03	0.935
PCB-58 233'5'-TeCB	28.07	J	0.8693	0.8693	0	2.44E+05	0.88	1.26	3.14	6.85E+03	0.913
PCB-67 23'45'-TeCB	28.22		0.8741	0.8740	-0.2	2.35E+06	0.77	1.31	29.2	6.85E+03	0.88
PCB-63 234'5'-TeCB	28.45		0.8811	0.8810	-0.2	3.97E+06	0.78	1.36	47.4	6.85E+03	0.846
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8902	0	1.80E+08	0.79	1.24	2,350	6.85E+03	0.925
PCB-66 23'44'-TeCB	29.02		0.8989	0.8987	-0.3	1.02E+08	0.79	1.17	1,420	6.85E+03	0.987
PCB-55 233'4'-TeCB	29.17		0.9034	0.9033	-0.2	9.15E+05	0.75	1.17	12.6	6.85E+03	0.979
PCB-56 233'4'-TeCB	29.60		0.9169	0.9167	-0.4	4.99E+07	0.79	1.16	697	6.85E+03	0.989
PCB-60 2344'-TeCB	29.80		0.9229	0.9227	-0.4	2.16E+07	0.78	1.18	299	6.85E+03	0.979
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	6.85E+03	0.841
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.38	ND	6.85E+03	0.834
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	6.85E+03	1.04
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	2.05E+03	0.379
PCB-96 22'366'-PeCB	25.72		1.0134	1.0134	0	1.03E+06	0.62	1.20	23.8	2.05E+03	0.453
PCB-103 22'45'6'-PeCB	27.40	J	0.8989	0.8988	-0.2	3.32E+05	0.54	0.95	6.78	4.29E+03	0.907
PCB-94 22'356'-PeCB	27.59	J	0.9051	0.9050	-0.2	4.08E+05	0.61	0.79	9.94	4.29E+03	1.08
PCB-95 22'35'6'-PeCB	27.98		0.9176	0.9175	-0.2	2.93E+07	0.62	0.86	655	4.29E+03	0.993

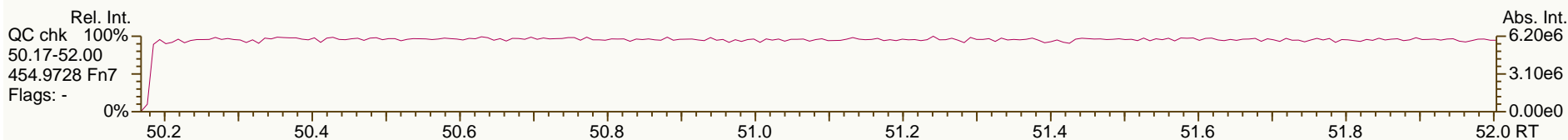
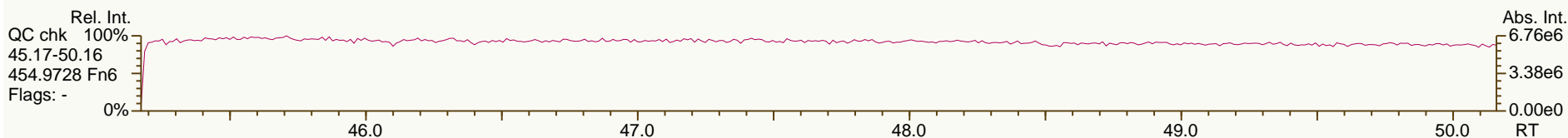
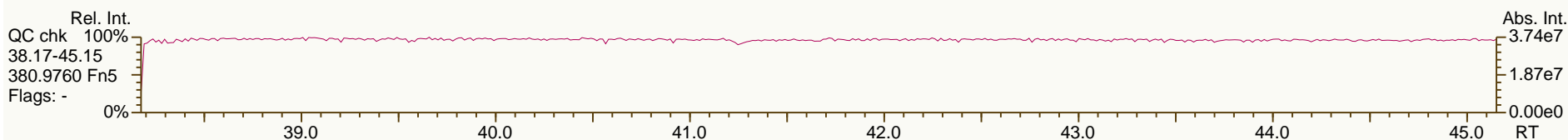
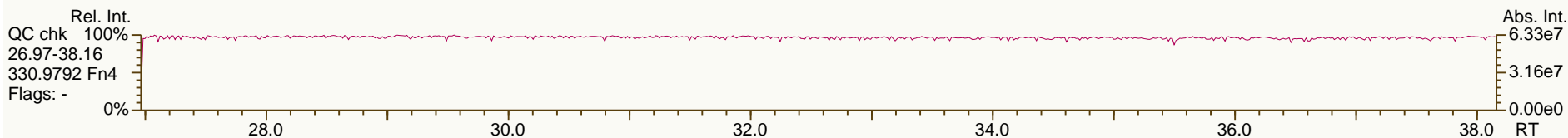
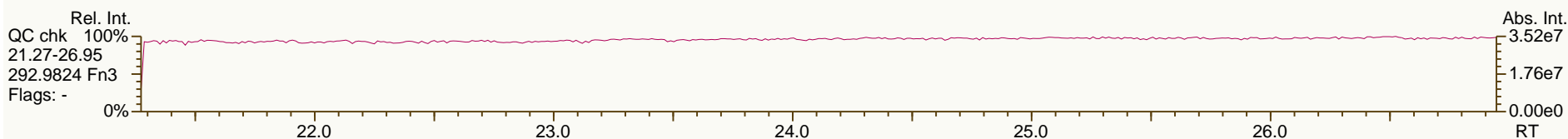
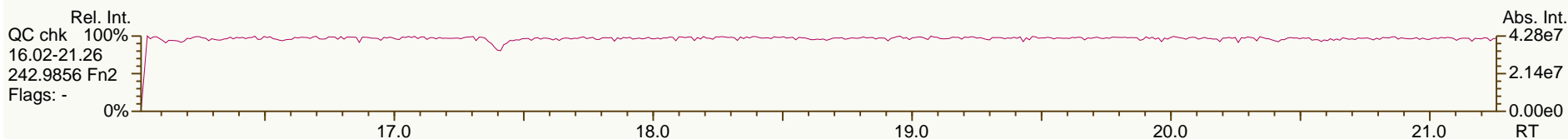
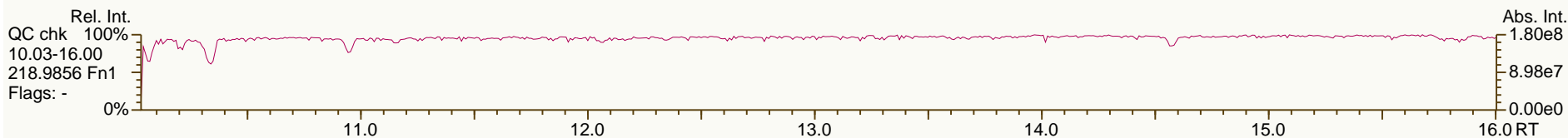
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.19	J C	0.9246	0.9246	0	5.96E+05	0.58	0.88	13.2	4.29E+03	0.981
PCB-102 22'456"-PeCB	28.30		0.9282	0.9280	-0.3	2.55E+06	0.62	1.04	47.3	4.29E+03	0.824
PCB-98 22'34'6"-PeCB	28.38	J	0.9305	0.9308	+0.5	7.85E+04	0.57	0.73	2.09	4.29E+03	1.18
PCB-88 22'346"-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	4.29E+03	1.08
PCB-91 22'34'6"-PeCB	28.73		0.9424	0.9423	-0.2	7.99E+06	0.62	0.91	169	4.29E+03	0.939
PCB-84 22'33'6"-PeCB	28.93		0.9487	0.9487	0	1.16E+07	0.61	0.72	311	4.29E+03	1.19
PCB-89 22'346"-PeCB	29.34		0.9624	0.9624	0	1.24E+06	0.60	0.76	31.3	4.29E+03	1.12
PCB-121 23'45'6"-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	4.29E+03	0.704
PCB-92 22'355"-PeCB	30.01		0.9841	0.9841	0	5.70E+06	0.61	0.83	134	4.29E+03	1.04
PCB-113/90/101 ...-PeCB	30.51	C	0.9999	1.0007	+1.5	3.53E+07	0.62	0.98	695	4.29E+03	0.874
PCB-83 22'33'5"-PeCB	30.92		1.0142	1.0141	-0.2	1.96E+06	0.60	0.71	53	4.29E+03	1.2
PCB-99 22'44'5"-PeCB	31.02		1.0173	1.0174	+0.2	2.10E+07	0.62	0.91	447	4.29E+03	0.946
PCB-112 233'56"-PeCB	31.14	J	1.0206	1.0213	+1.3	1.21E+05	0.59	1.17	2.01	4.29E+03	0.734
PCB-108/119/86/97/125...-PeCB	31.50	C	1.0320	1.0329	+1.7	3.24E+07	0.61	1.00	630	4.29E+03	0.862
PCB-117 234'56"-PeCB	32.00		1.0495	1.0495	0	1.42E+06	0.59	1.05	26.2	4.29E+03	0.817
PCB-116/85 23456/22'344"-PeCB	32.08	C	1.0525	1.0521	-0.8	1.03E+07	0.62	0.98	203	4.29E+03	0.873
PCB-110 233'4'6"-PeCB	32.21		1.0561	1.0563	+0.4	4.95E+07	0.61	1.12	860	4.29E+03	0.77
PCB-115 2344'6"-PeCB	32.30		1.0590	1.0592	+0.4	1.78E+06	0.62	1.15	30.1	4.29E+03	0.749
PCB-82 22'33'4"-PeCB	32.49		1.0655	1.0657	+0.4	6.09E+06	0.62	0.69	170	4.29E+03	1.24
PCB-111 233'55"-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	4.29E+03	0.713
PCB-120 23'455"-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	4.29E+03	0.702
PCB-107/124 ...-PeCB	34.17	C	0.9916	0.9916	0	1.49E+06	0.65	1.10	26.4	4.29E+03	0.784
PCB-109 233'46"-PeCB	34.38		0.9976	0.9976	0	2.96E+06	0.61	1.24	46.2	4.29E+03	0.692
PCB-106 233'45"-PeCB	34.59	J	1.0038	1.0038	0	7.87E+04	0.58	1.08	1.41	4.29E+03	0.797
PCB-122 233'4'5"-PeCB	35.06		1.0091	1.0090	-0.2	7.57E+05	0.62	1.00	14.2	4.29E+03	0.83
PCB-127 33'455"-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	4.29E+03	0.744
PCB-155 22'44'66"-HxCB	30.35	J EMPC	1.0007	1.0009	+0.4	2.70E+04	0.97	1.26	0.433	1.71E+03	0.272
PCB-152 22'3566"-HxCB	30.51	J	1.0060	1.0061	+0.2	4.38E+04	1.07	1.11	0.801	1.71E+03	0.31
PCB-150 22'34'66"-HxCB	30.65	J	1.0107	1.0107	0	3.09E+04	1.16	1.12	0.557	1.71E+03	0.306
PCB-136 22'33'66"-HxCB	30.95		1.0207	1.0208	+0.2	1.86E+06	1.24	1.03	36.7	1.71E+03	0.334
PCB-145 22'3466"-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.71E+03	0.327
PCB-148 22'34'56"-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.71E+03	0.422
PCB-151/135 ...-HxCB	33.01	C	1.0886	1.0886	0	2.88E+06	1.32	1.06	74.2	1.71E+03	0.446
PCB-154 22'44'56"-HxCB	33.22	J	1.0954	1.0956	+0.4	1.33E+05	1.38	1.25	2.93	1.71E+03	0.381
PCB-144 22'345'6"-HxCB	33.49		1.1041	1.1043	+0.4	5.13E+05	1.21	1.10	12.8	1.71E+03	0.431
PCB-147/149 ...-HxCB	33.79	C	1.1141	1.1142	+0.2	7.58E+06	1.26	1.11	188	1.71E+03	0.429
PCB-134 22'33'56"-HxCB	33.97		1.1199	1.1201	+0.4	5.52E+05	1.39	0.79	19.3	1.71E+03	0.603
PCB-143 22'3456"-HxCB	34.06	J	1.1225	1.1231	+1.2	5.91E+04	1.27	1.10	1.47	1.71E+03	0.43
PCB-139/140 ...-HxCB	34.30	J C	1.1312	1.1312	0	2.59E+05	1.25	1.11	6.4	1.71E+03	0.428
PCB-131 22'33'46"-HxCB	34.49	J EMPC	1.1369	1.1372	+0.6	1.58E+05	1.03	0.94	4.63	1.71E+03	0.505
PCB-142 22'3456"-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.71E+03	0.513
PCB-132 22'33'46"-HxCB	34.86		1.1494	1.1497	+0.6	3.57E+06	1.29	0.97	101	1.71E+03	0.49
PCB-133 22'33'55"-HxCB	35.27	J	1.1626	1.1630	+0.8	1.42E+05	1.23	1.04	3.74	1.71E+03	0.455
PCB-165 233'55'6"-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.71E+03	0.363
PCB-146 22'34'55"-HxCB	35.82		0.9582	0.9581	-0.2	1.44E+06	1.35	1.14	34.7	1.71E+03	0.417
PCB-161 233'45'6"-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.71E+03	0.335
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9721	-1.5	9.03E+06	1.27	1.39	179	1.71E+03	0.342
PCB-141 22'3455"-HxCB	36.51		0.9766	0.9766	0	1.72E+06	1.27	1.03	45.7	1.71E+03	0.459

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.86		0.9859	0.9859	0	7.04E+05	1.17	0.92	21.1	1.71E+03	0.517
PCB-137 22'344'5'-HxCB	37.05		0.9911	0.9910	-0.2	5.99E+05	1.25	1.14	14.5	1.71E+03	0.418
PCB-164 233'4'5'6'-HxCB	37.14		0.9933	0.9933	0	1.01E+06	1.33	1.38	20	1.71E+03	0.344
PCB-163/138/129 ...-HxCB	37.41	C	1.0011	1.0007	-0.9	1.17E+07	1.28	1.11	290	1.71E+03	0.427
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.71E+03	0.364
PCB-158 233'44'6'-HxCB	37.75		1.0096	1.0096	0	1.57E+06	1.27	1.50	28.9	1.71E+03	0.317
PCB-128/166 ...-HxCB	38.49	C	0.9641	0.9642	+0.2	2.11E+06	1.23	0.89	48.9	2.42E+03	0.602
PCB-159 233'455'-HxCB	39.28	J	0.9844	0.9839	-1.2	1.09E+05	1.25	1.07	2.1	2.42E+03	0.501
PCB-162 233'4'55'-HxCB	39.54	J	0.9903	0.9904	+0.2	6.71E+04	1.26	1.06	1.3	2.42E+03	0.505
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.42E+03	0.325
PCB-179 22'33'566'-HpCB	35.50		1.0086	1.0086	0	6.20E+05	0.98	1.08	16.3	1.42E+03	0.382
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.42E+03	0.403
PCB-176 22'33'466'-HpCB	36.26	J	1.0300	1.0301	+0.2	1.97E+05	1.05	1.14	4.9	1.42E+03	0.362
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.42E+03	0.387
PCB-178 22'33'55'6'-HpCB	37.79	J	1.0733	1.0734	+0.2	2.09E+05	1.05	0.76	7.84	1.42E+03	0.545
PCB-175 22'33'45'6'-HpCB	38.33	J	1.0887	1.0890	+0.7	7.08E+04	1.12	1.08	1.94	2.25E+03	0.623
PCB-187 22'34'55'6'-HpCB	38.56		1.0952	1.0954	+0.5	1.61E+06	1.08	1.15	41.5	2.25E+03	0.585
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	2.25E+03	0.565
PCB-183 22'344'5'6'-HpCB	39.08		1.1101	1.1102	+0.2	8.22E+05	1.14	1.22	19.9	2.25E+03	0.551
PCB-185 22'3455'6'-HpCB	39.17	J	1.1125	1.1128	+0.7	1.09E+05	1.03	1.03	3.12	2.25E+03	0.651
PCB-174 22'33'456'-HpCB	39.28		1.1156	1.1158	+0.5	1.21E+06	1.06	0.98	36.5	2.25E+03	0.685
PCB-177 22'33'45'6'-HpCB	39.65		1.1262	1.1264	+0.5	6.72E+05	1.06	0.95	21.1	2.25E+03	0.711
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	2.25E+03	0.629
PCB-171/173 ...-HpCB	40.19	J EMPC C	1.1413	1.1416	+0.7	3.46E+05	1.20	0.95	10.9	2.25E+03	0.711
PCB-172 22'33'455'-HpCB	41.53	J	0.9080	0.9079	-0.2	1.97E+05	0.96	0.97	6.01	2.25E+03	0.693
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	2.25E+03	0.533
PCB-180/193 ...-HpCB	42.08	C	0.9194	0.9200	+1.5	2.86E+06	1.08	1.24	68.3	2.25E+03	0.542
PCB-191 233'44'5'6'-HpCB	42.38	J	0.9266	0.9265	-0.3	6.57E+04	1.15	1.35	1.44	2.25E+03	0.498
PCB-170 22'33'44'5'-HpCB	43.15		0.9434	0.9434	0	1.09E+06	1.02	1.14	34.2	2.25E+03	0.752
PCB-190 233'44'56-HpCB	43.61	J	0.9533	0.9533	0	2.92E+05	1.00	1.56	6.69	2.25E+03	0.549
PCB-202 22'33'55'66'-OoCB	39.76	J	1.0005	1.0005	0	1.70E+05	0.80	1.05	4.71	1.57E+03	0.452
PCB-201 22'33'45'66'-OoCB	40.54	J EMPC	1.0203	1.0201	-0.5	8.84E+04	0.73	1.13	2.27	1.57E+03	0.42
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.57E+03	0.452
PCB-197 22'33'44'66'-OoCB	41.30	J	1.0396	1.0395	-0.2	3.03E+04	0.88	1.13	0.781	1.57E+03	0.421
PCB-200 22'33'4566'-OoCB	41.40	J	1.0418	1.0418	0	8.12E+04	0.97	1.07	2.2	1.57E+03	0.444
PCB-198/199 ...-OoCB	43.74	J C	1.1001	1.1007	+1.6	4.59E+05	0.94	0.72	18.6	1.57E+03	0.661
PCB-196 22'33'44'56'-OoCB	44.30	J	1.1146	1.1149	+0.8	2.19E+05	0.95	0.76	8.37	1.57E+03	0.623
PCB-203 22'344'55'6'-OoCB	44.46		1.1188	1.1190	+0.5	2.81E+05	0.82	0.77	10.6	1.57E+03	0.617
PCB-195 22'33'44'56'-OoCB	45.58	J	0.9516	0.9516	0	1.26E+05	0.89	0.80	5.36	1.67E+03	0.751
PCB-194 22'33'44'55'-OoCB	47.53		0.9921	0.9921	0	3.30E+05	0.87	0.85	13.2	1.67E+03	0.702
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.67E+03	0.564
PCB-208 22'33'455'66'-NoCB	45.38	J	1.0005	1.0005	0	1.74E+05	0.88	1.12	4.79	3.08E+03	0.888
PCB-207 22'33'44'566'-NoCB	46.17	J	1.0178	1.0178	0	1.58E+05	0.78	1.13	4.31	3.08E+03	0.88
PCB-206 22'33'44'55'6'-NoCB	49.40	J	1.0004	1.0006	+0.6	2.05E+05	0.70	1.11	9.42	3.08E+03	1.48

SGS-AP ID: A6506\_11899\_PCB\_003  
Instr: AutoSpec-Premier MM7

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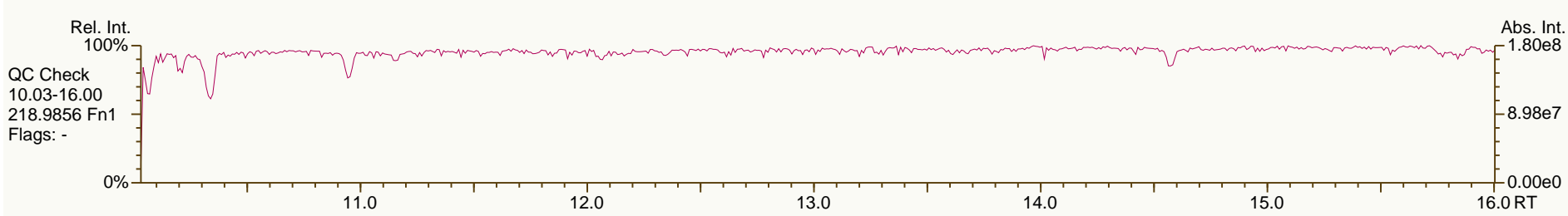
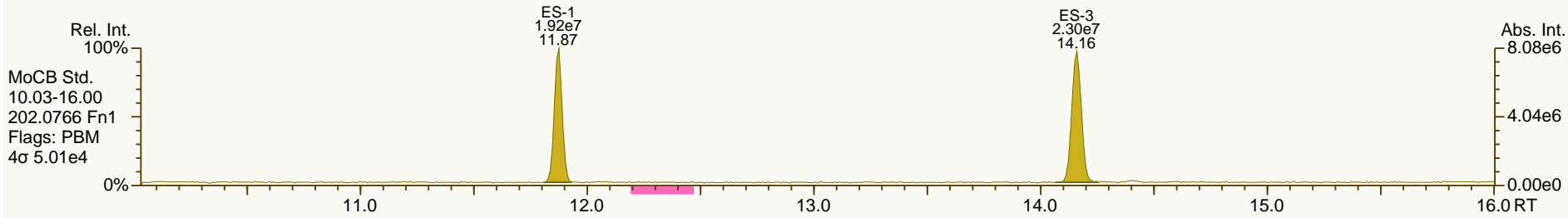
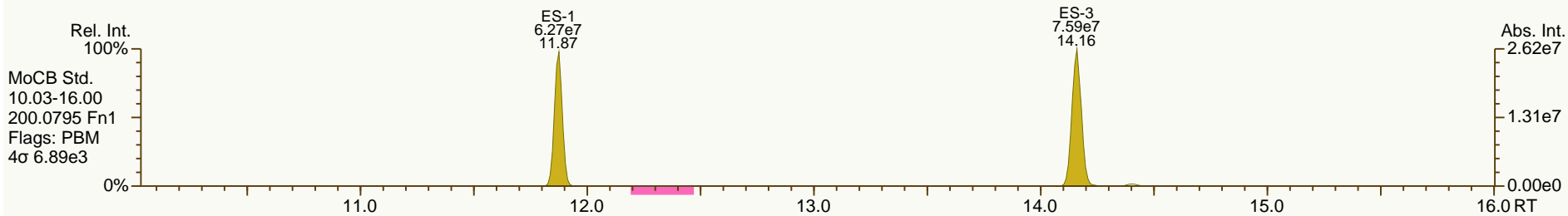
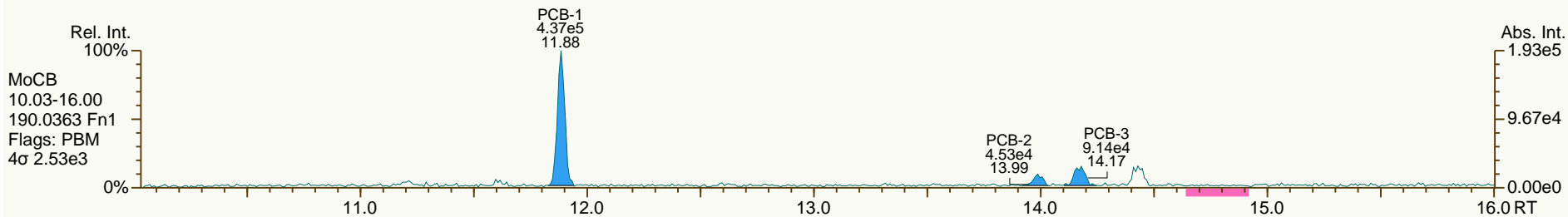
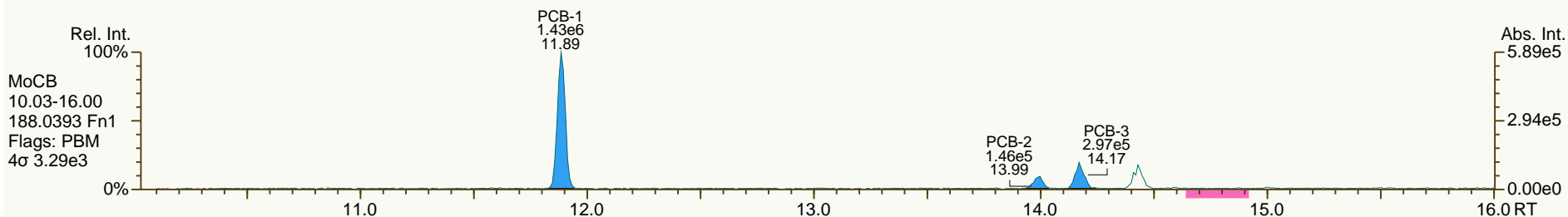
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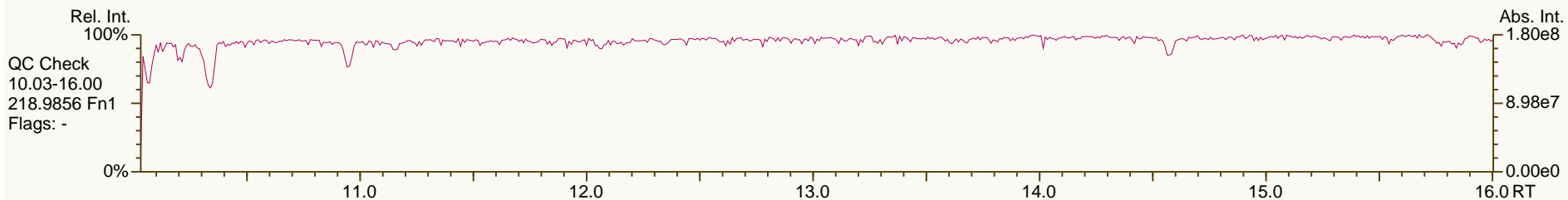
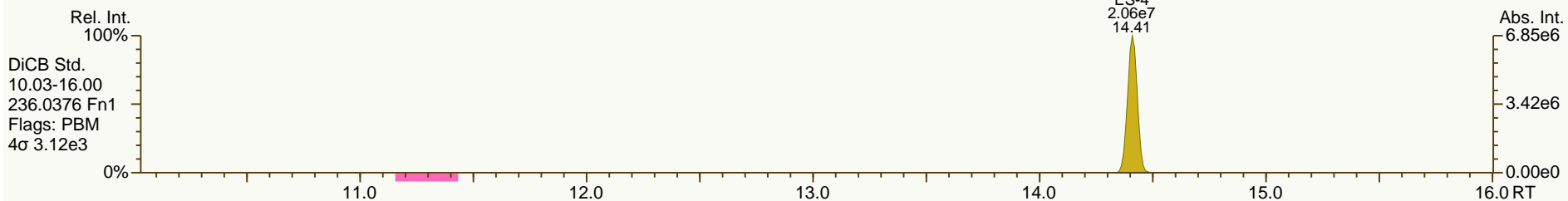
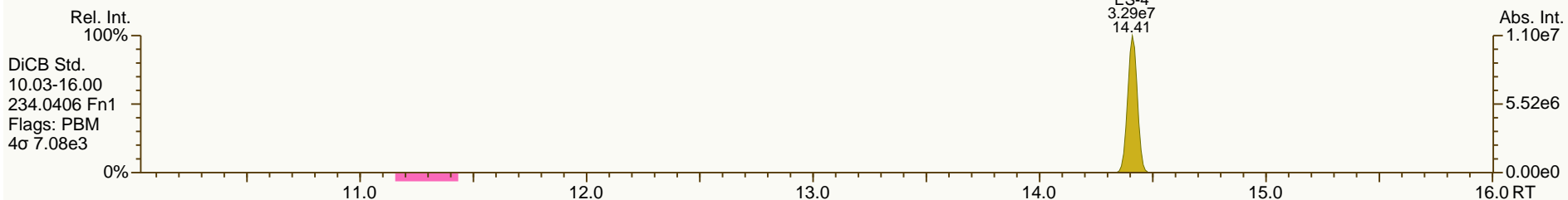
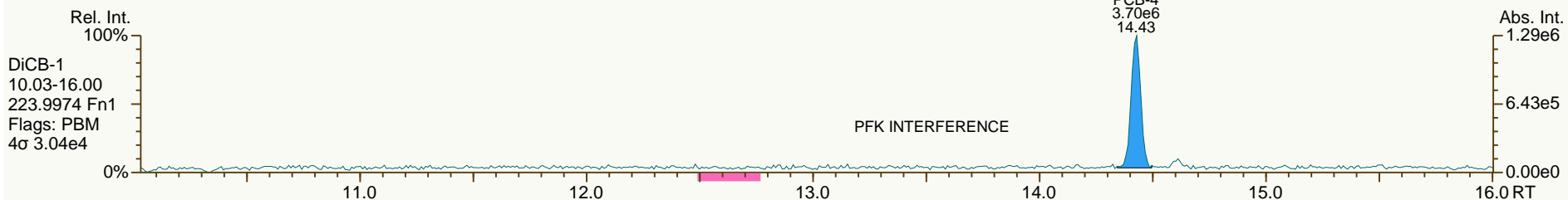
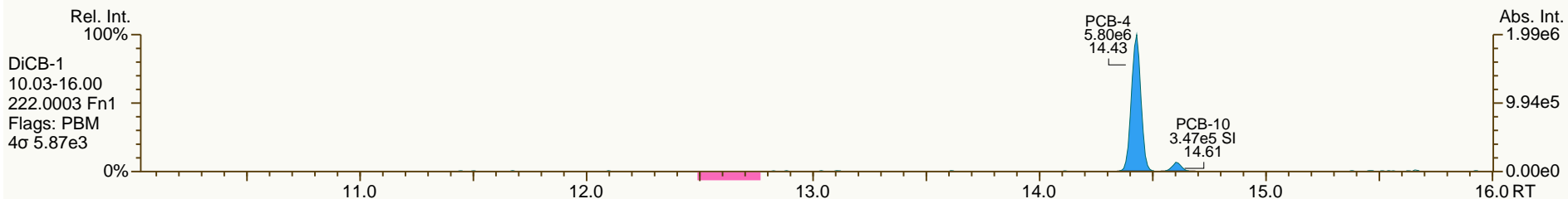
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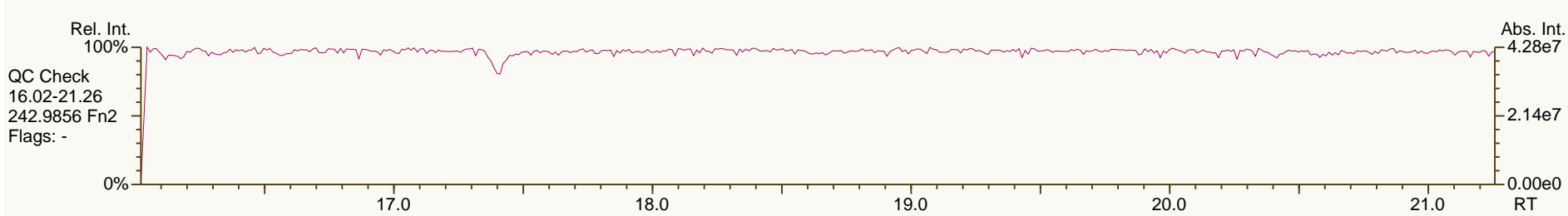
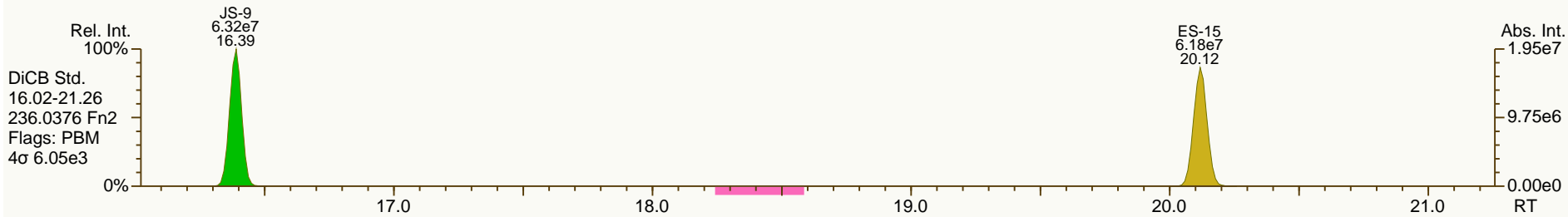
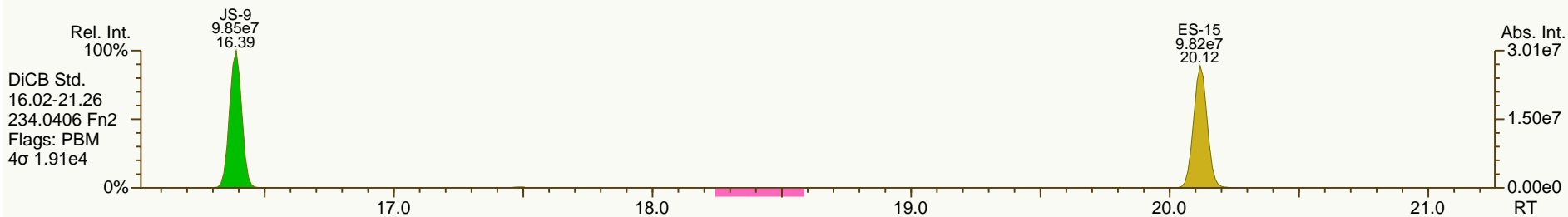
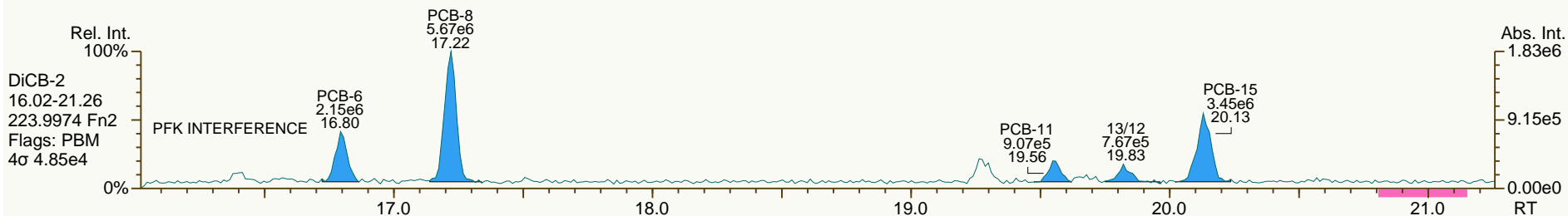
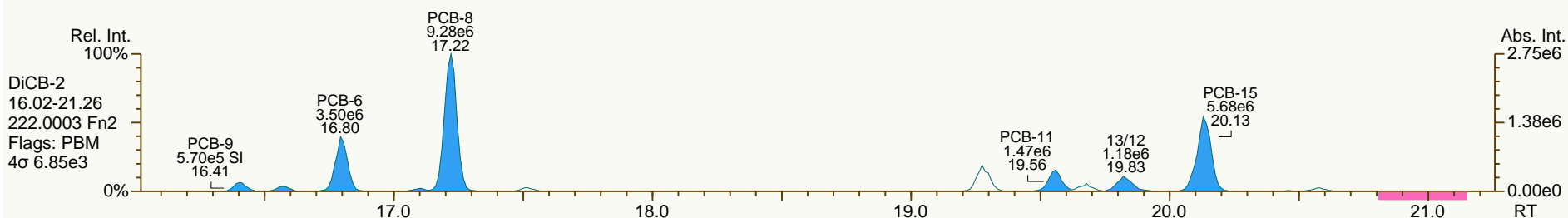




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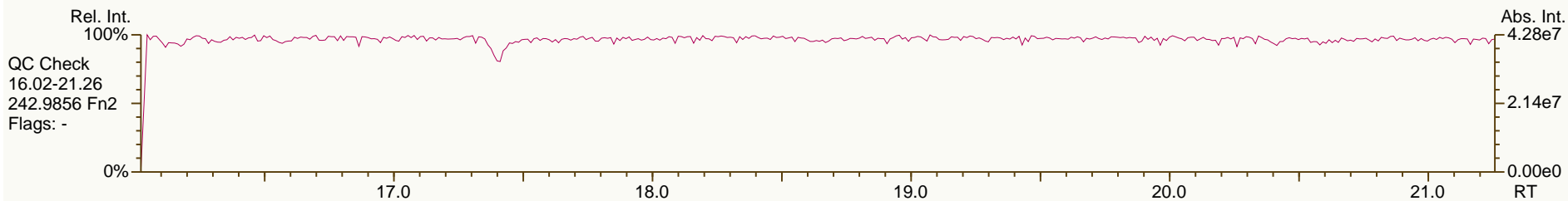
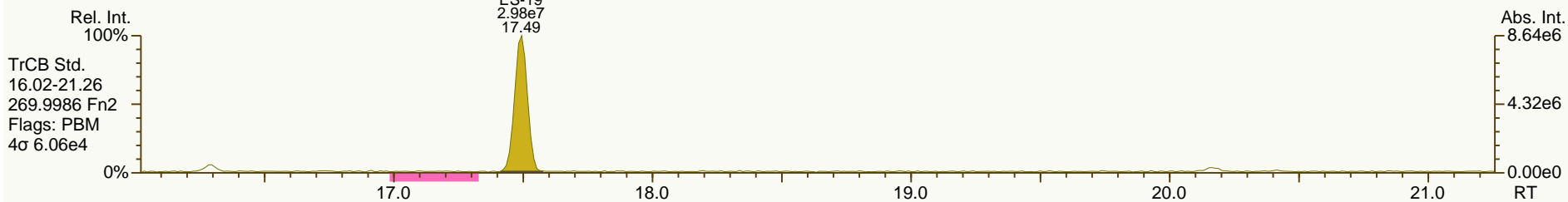
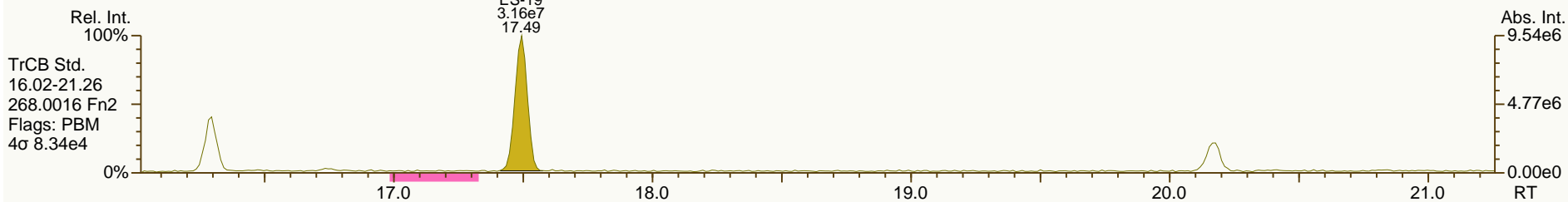
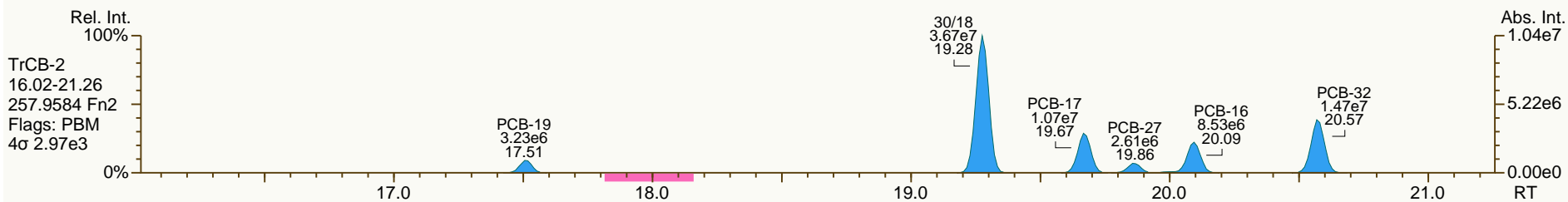
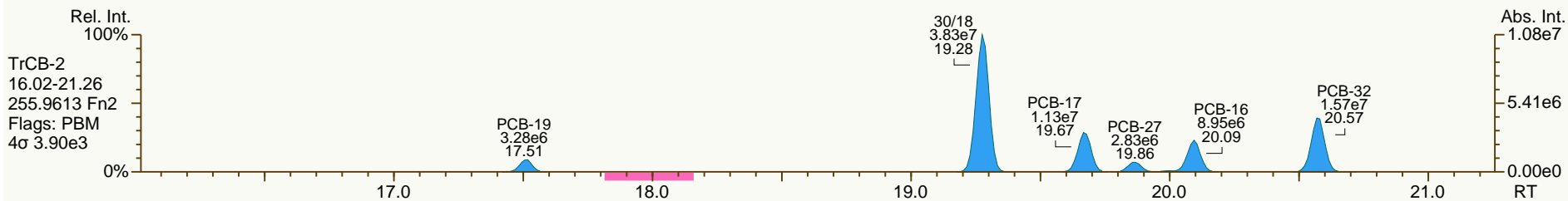
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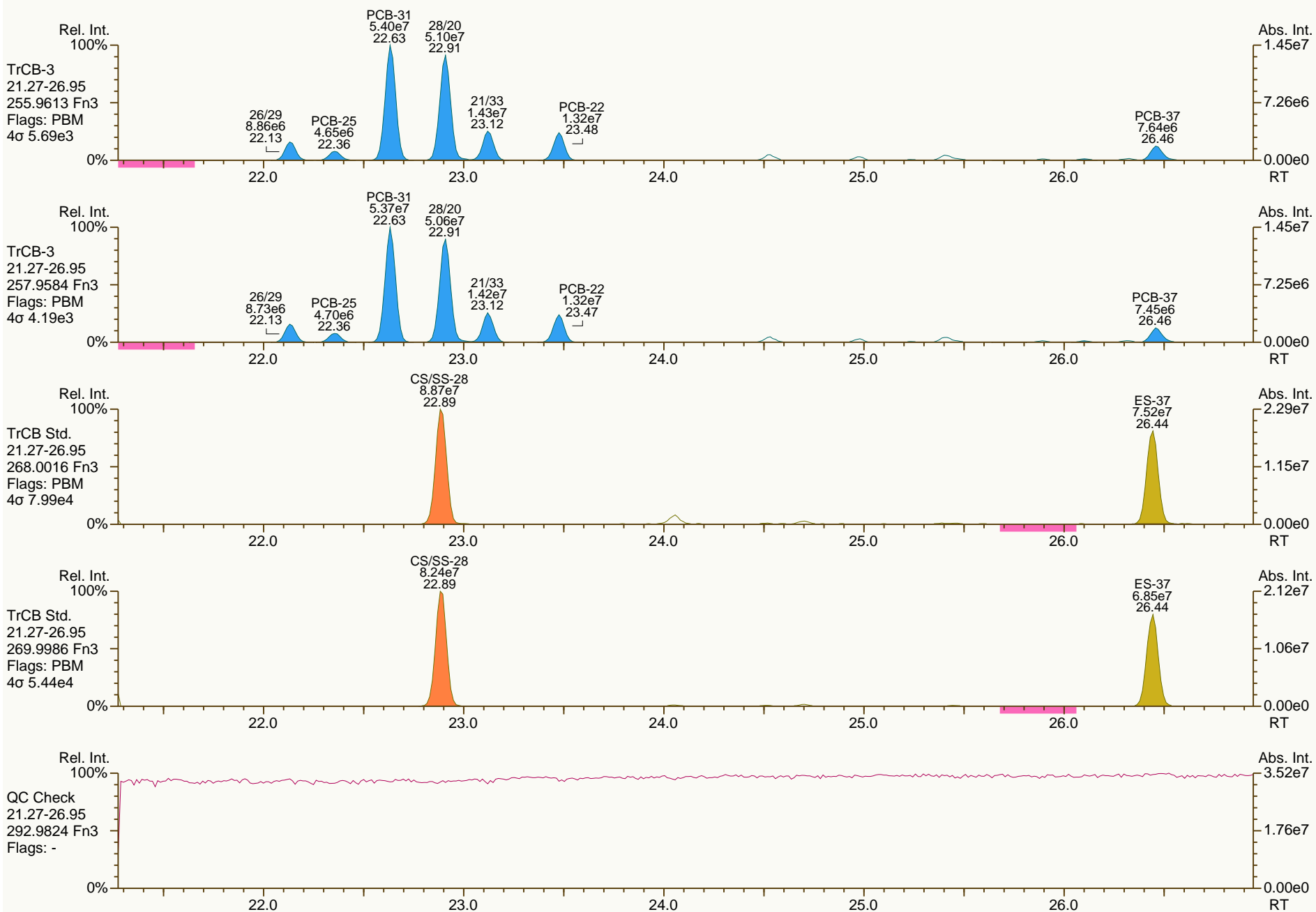
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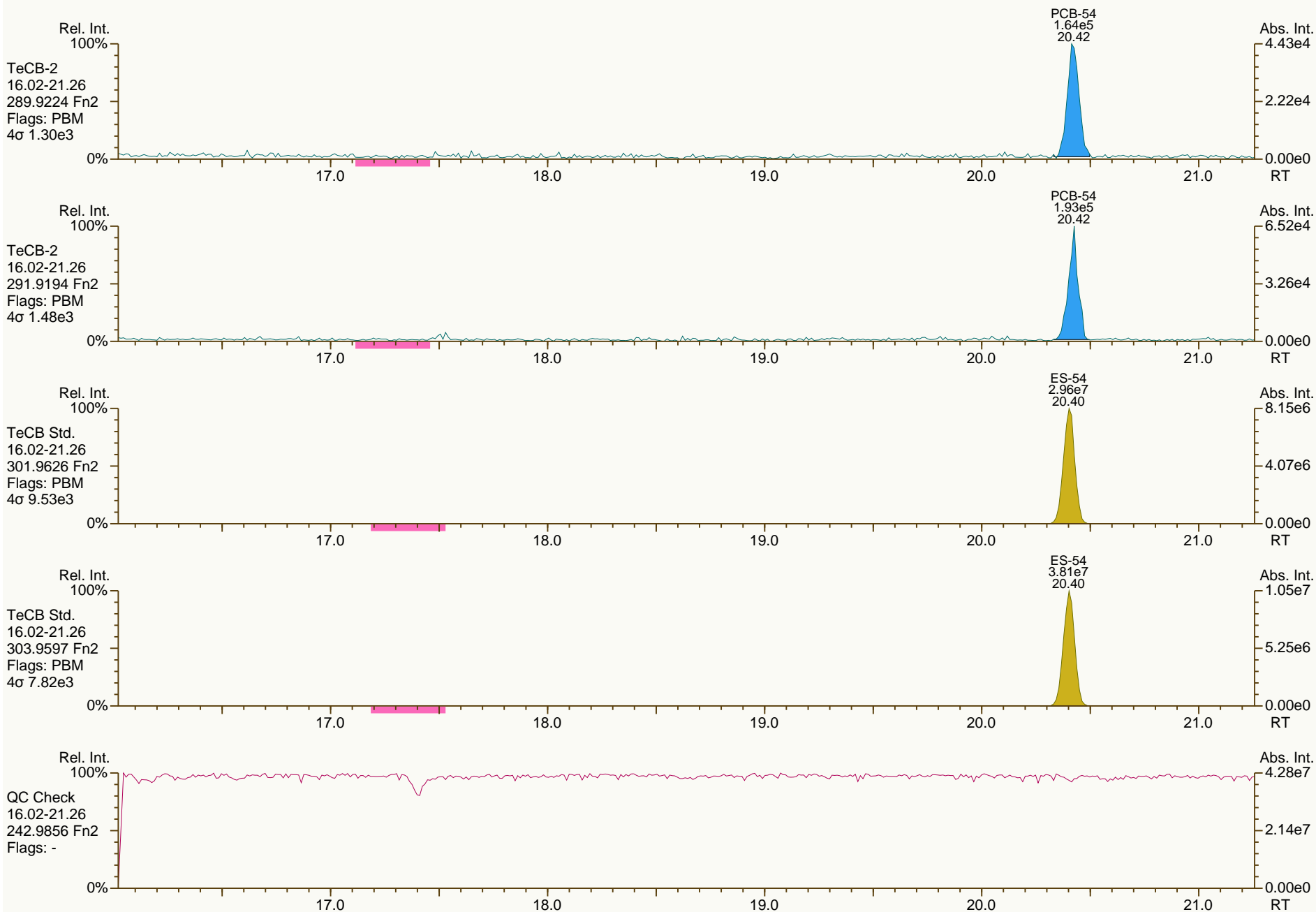
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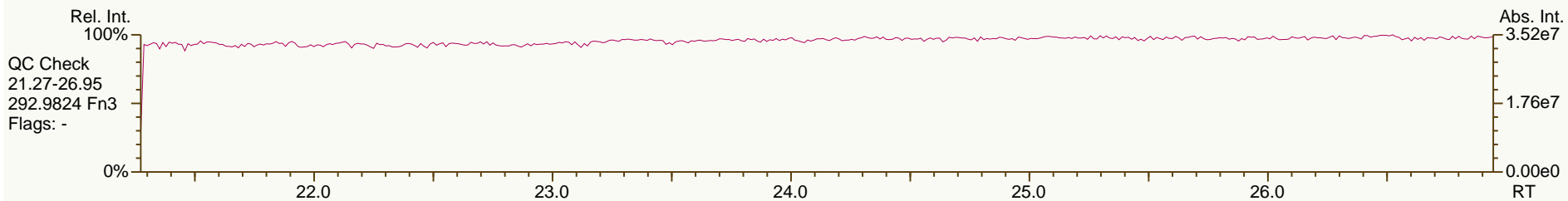
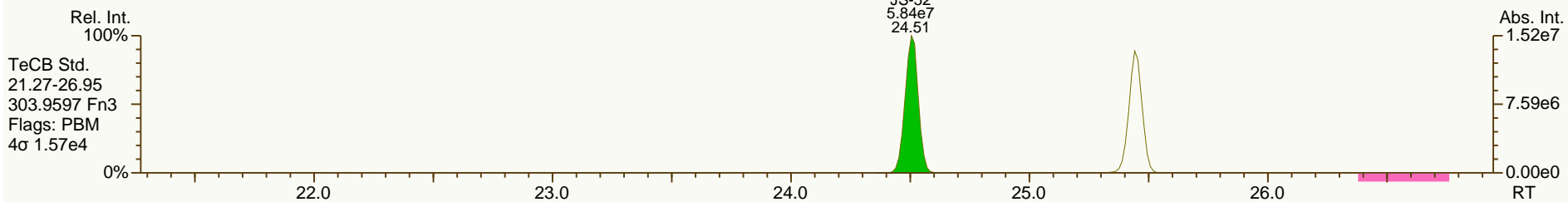
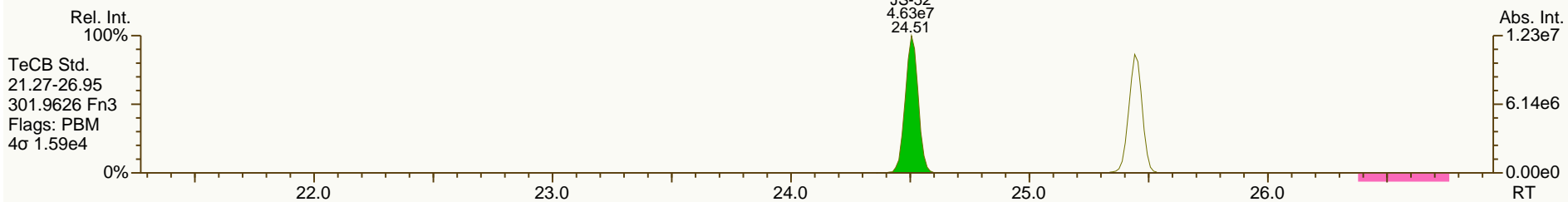
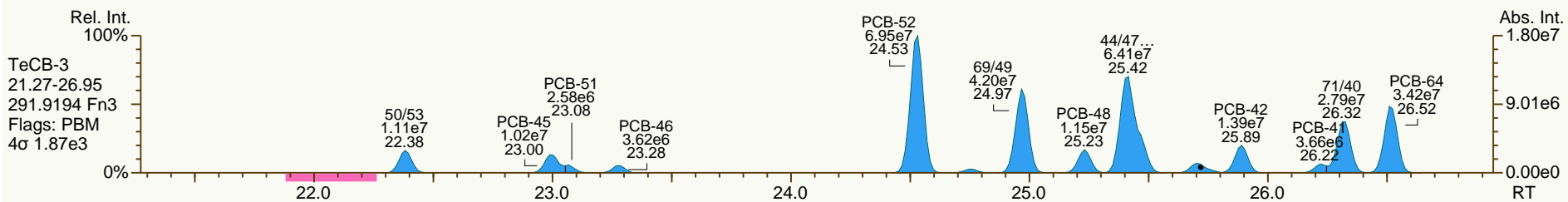
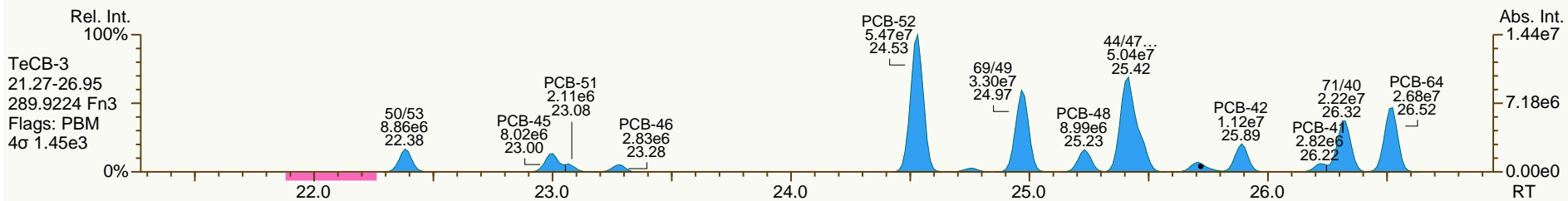
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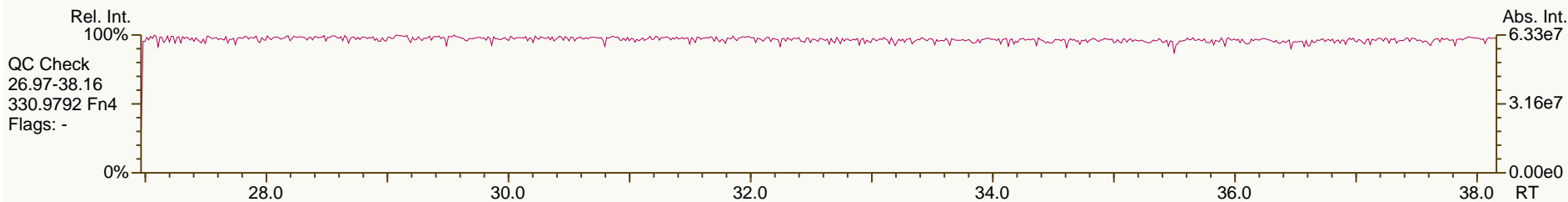
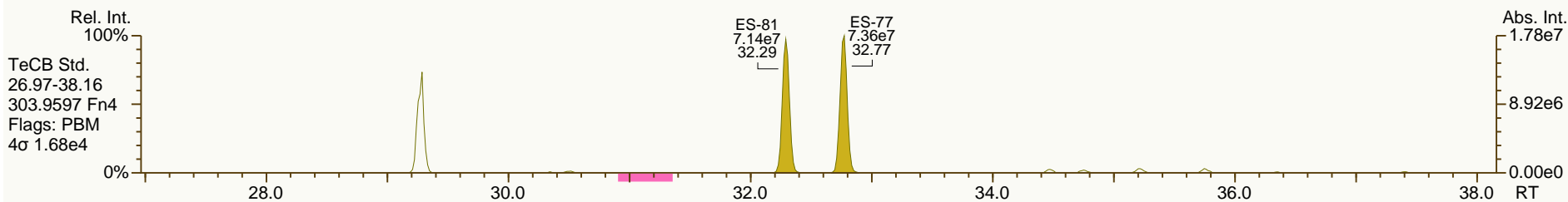
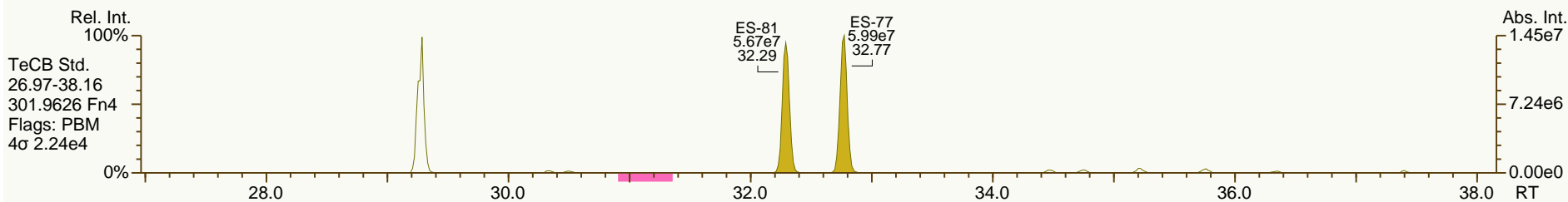
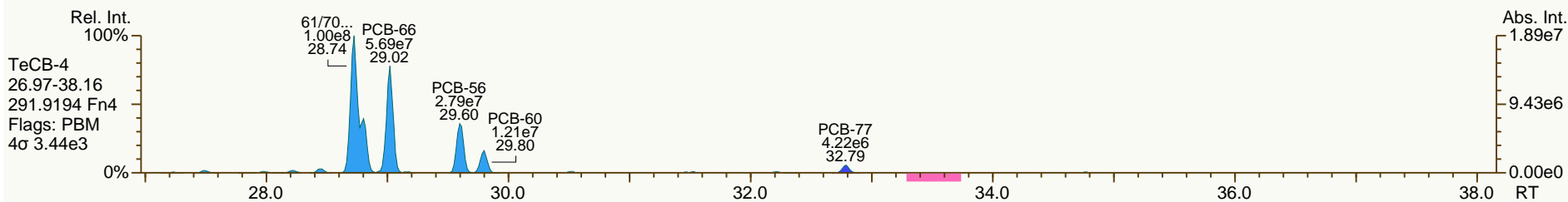
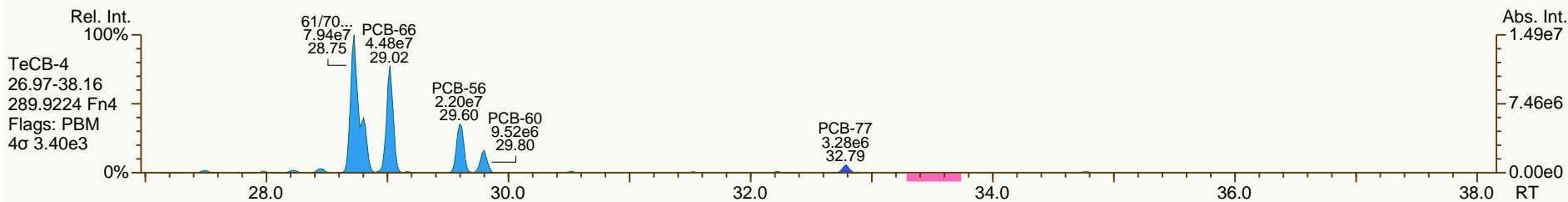
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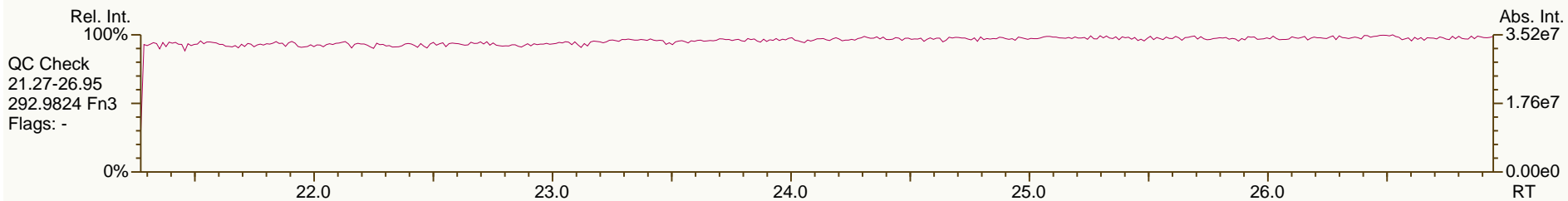
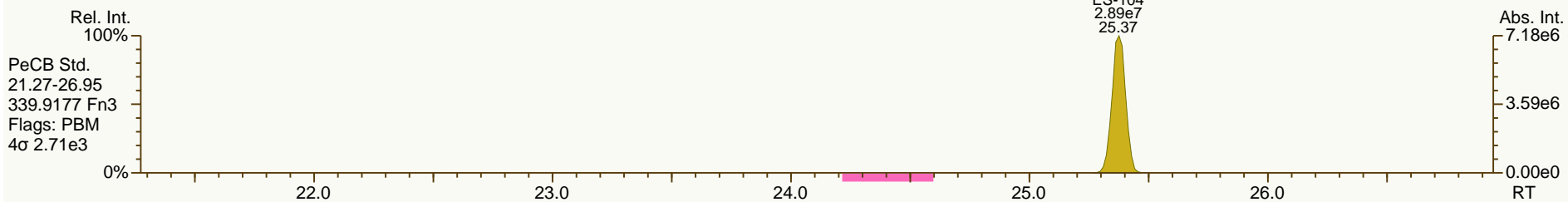
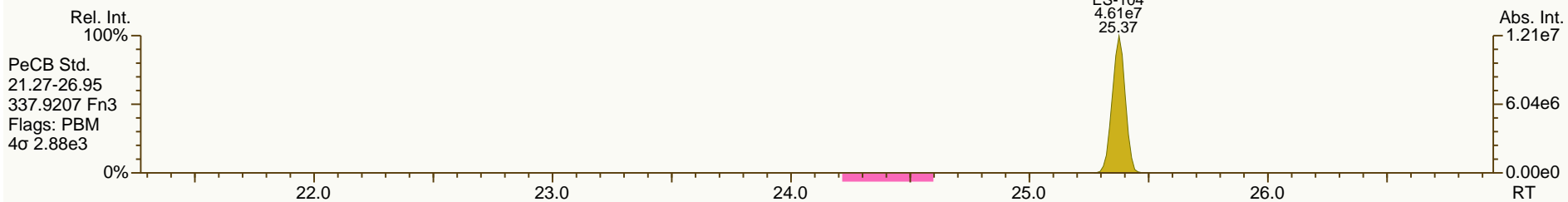
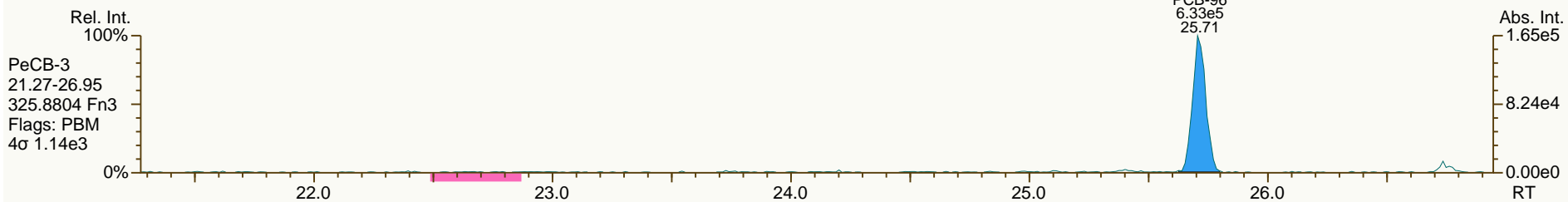
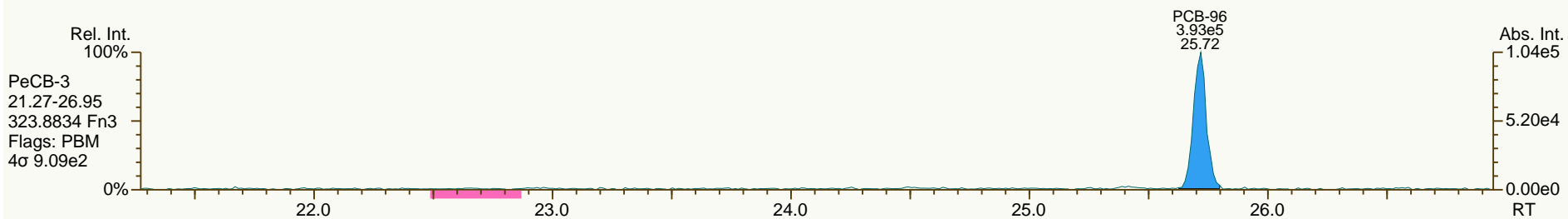
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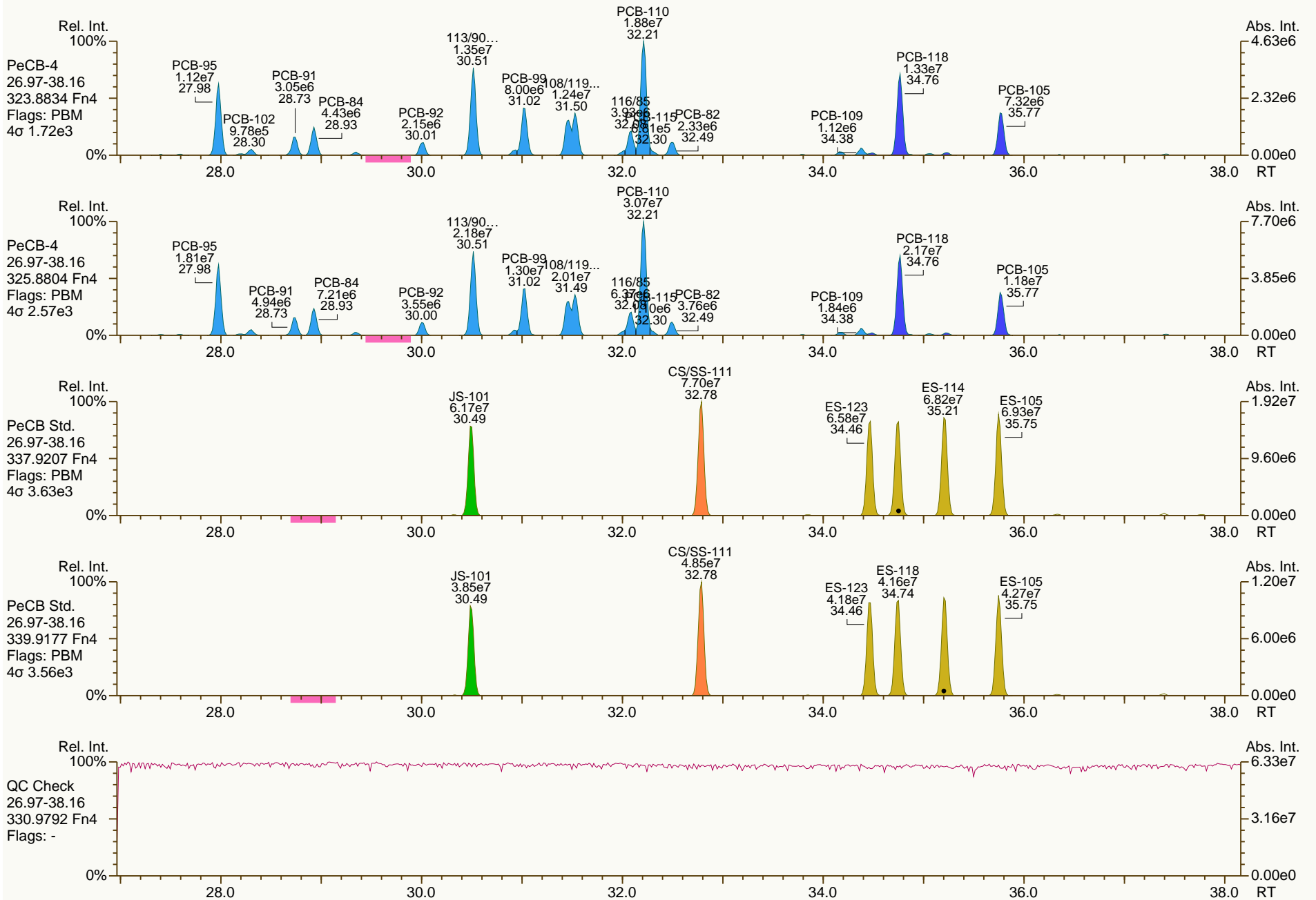
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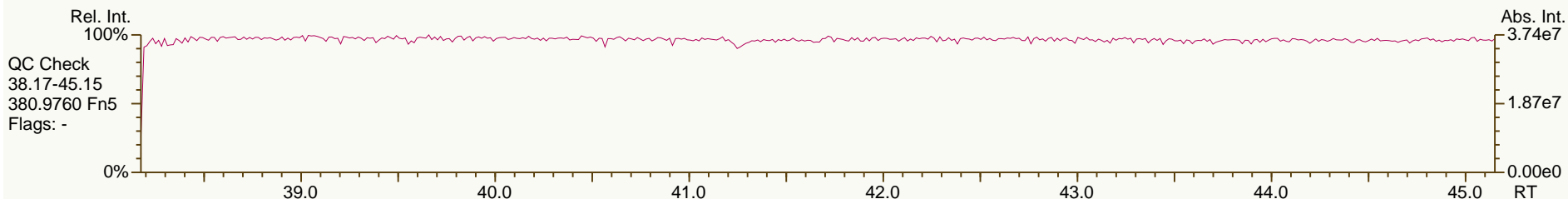
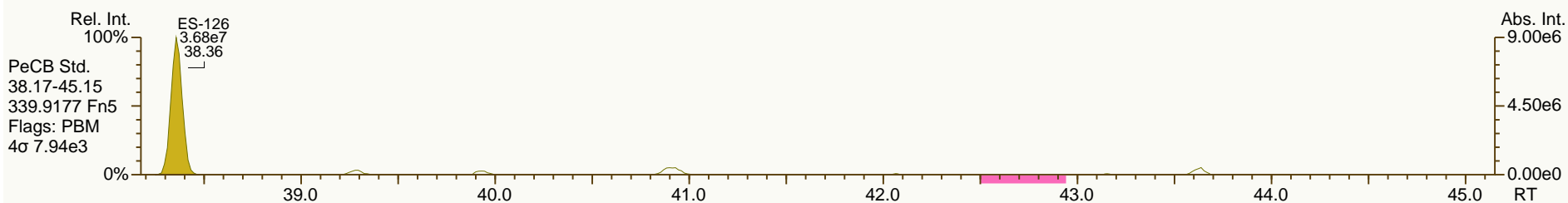
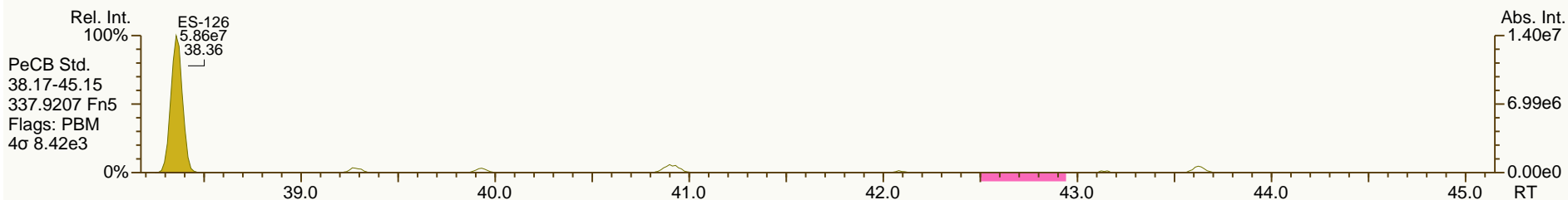
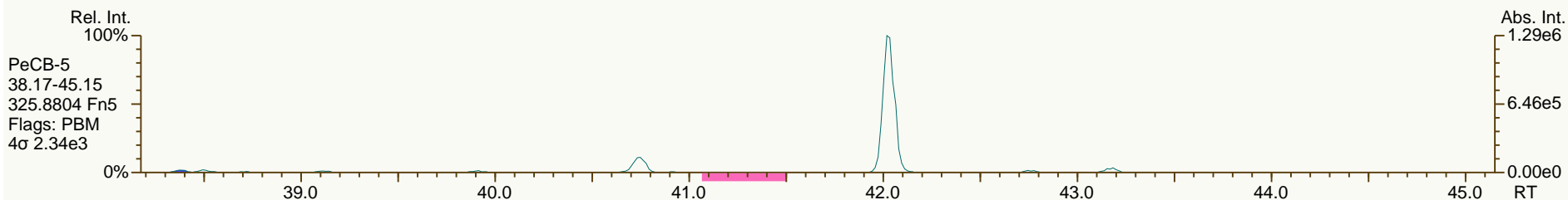
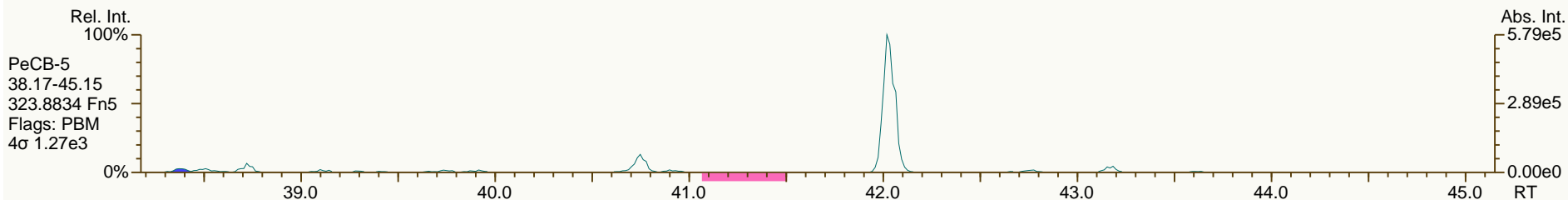




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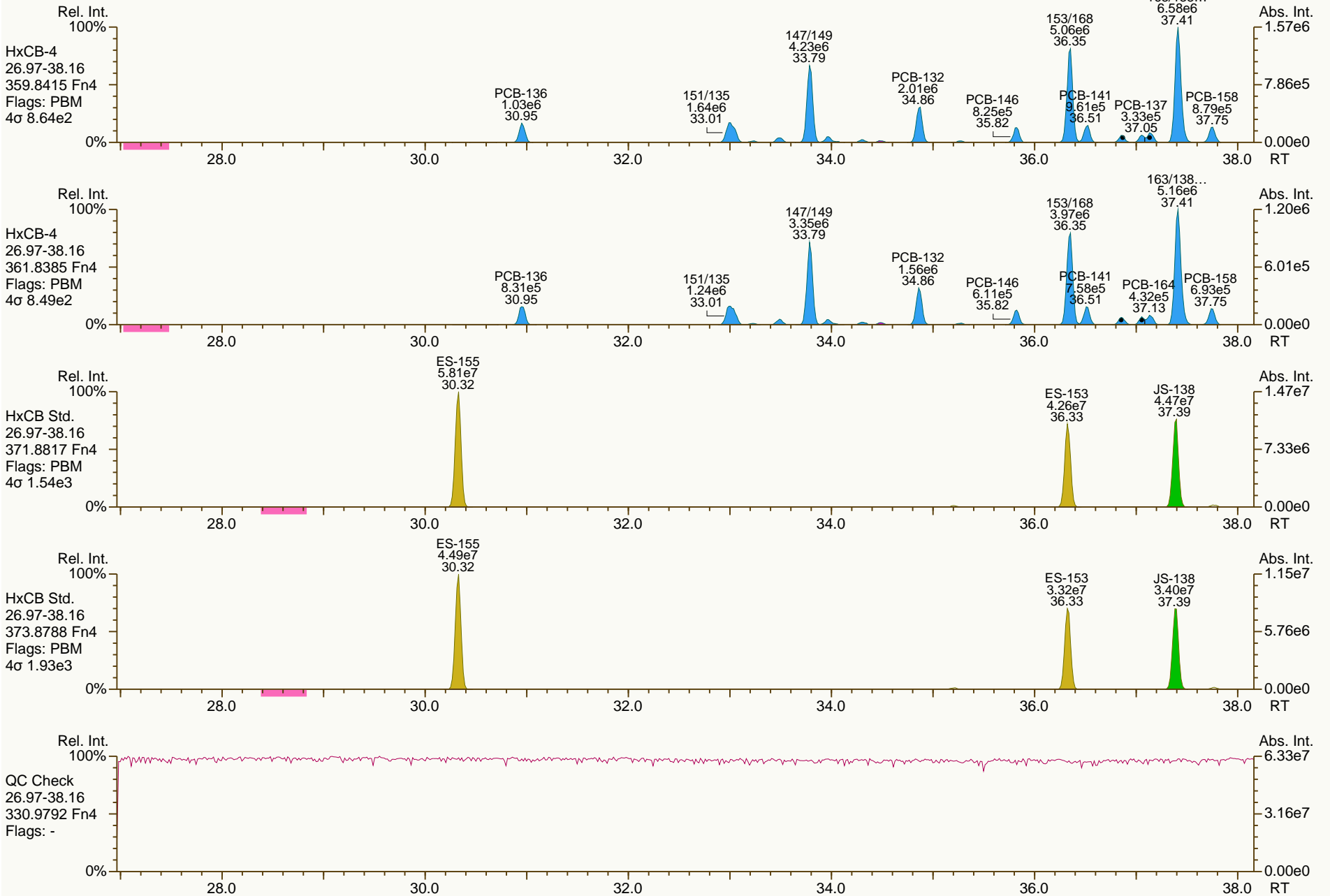
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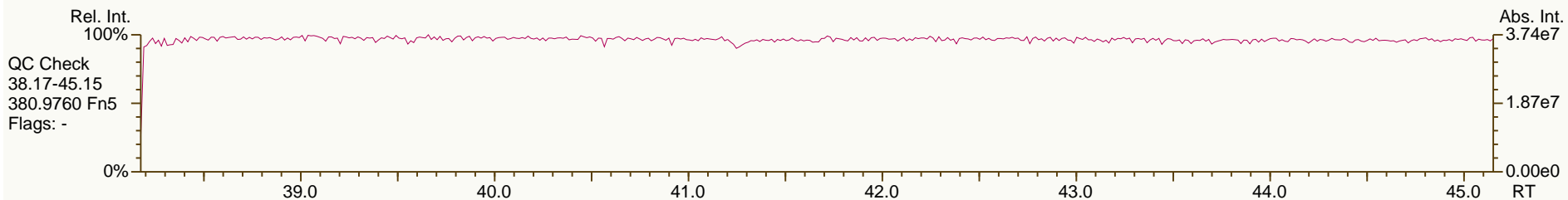
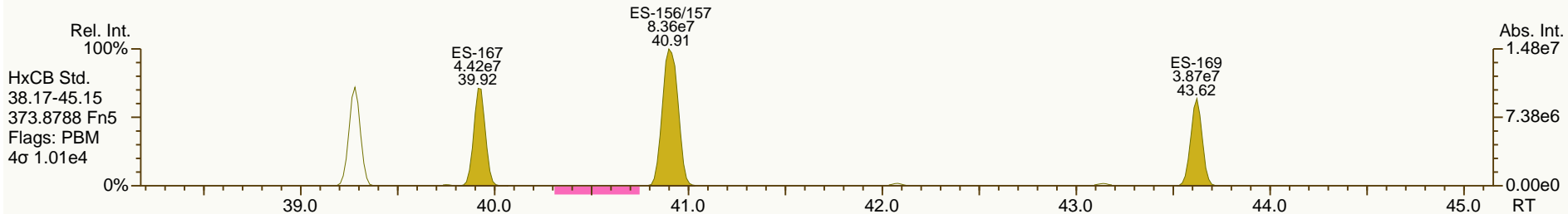
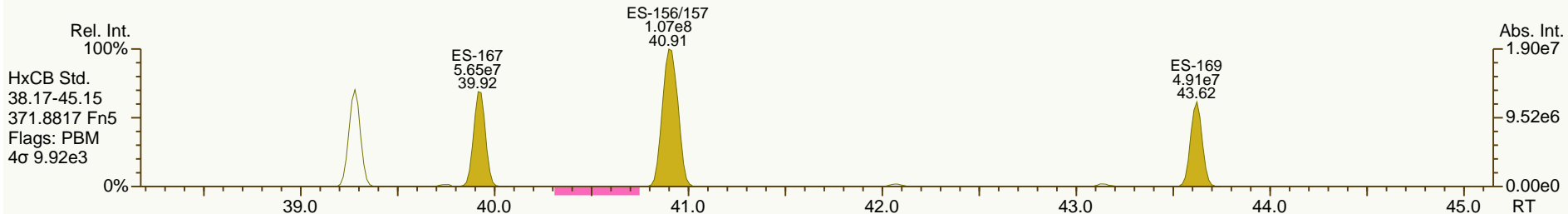
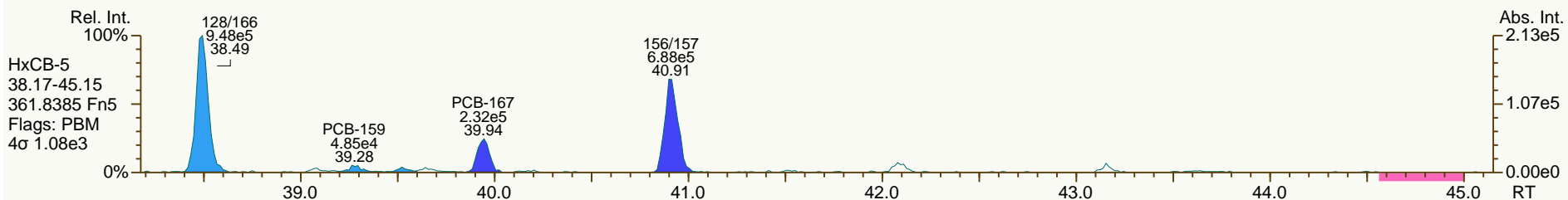
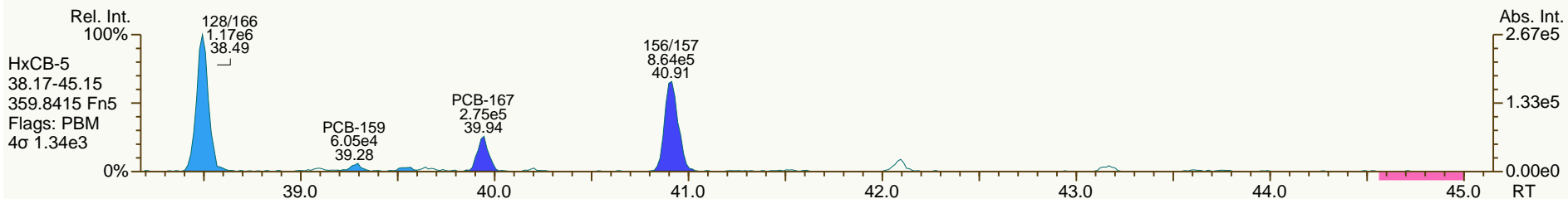
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SGS-AP ID: A6506\_11899\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 51

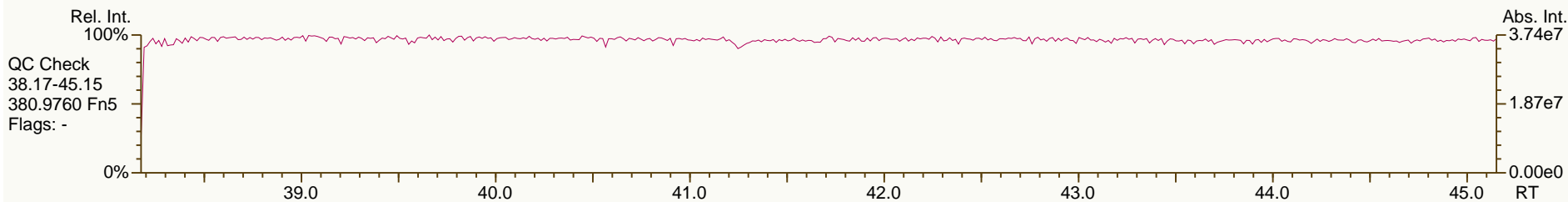
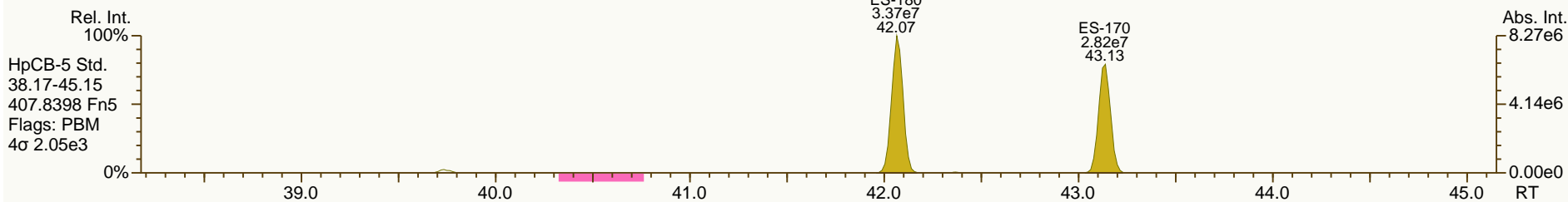
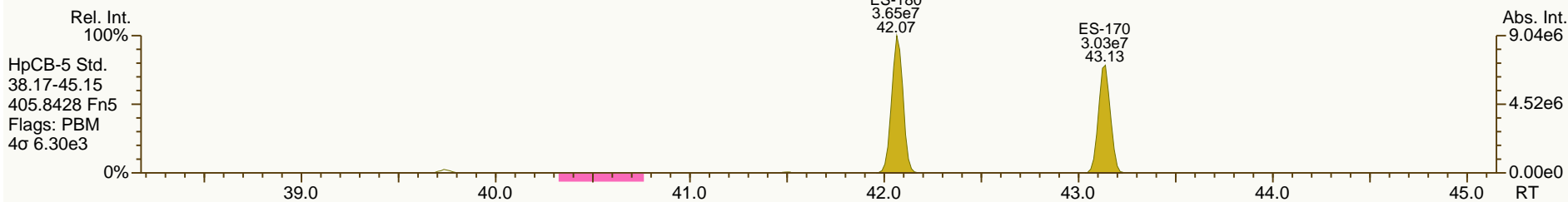
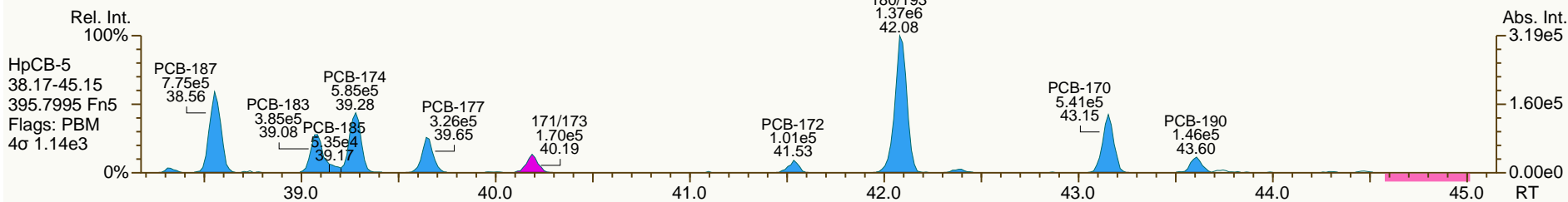
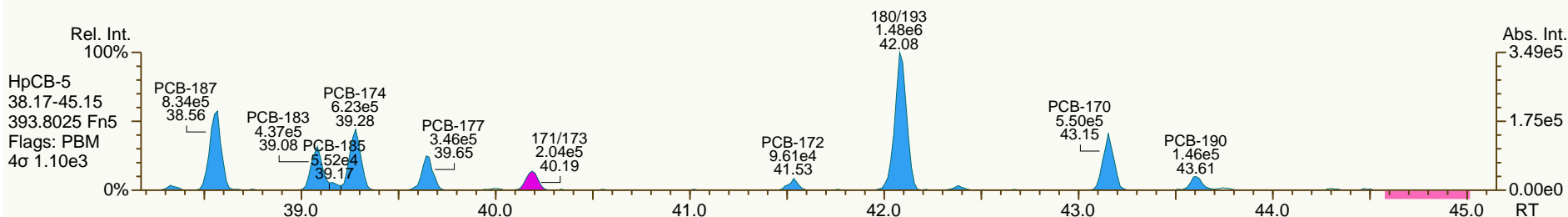
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SGS-AP ID: A6506\_11899\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
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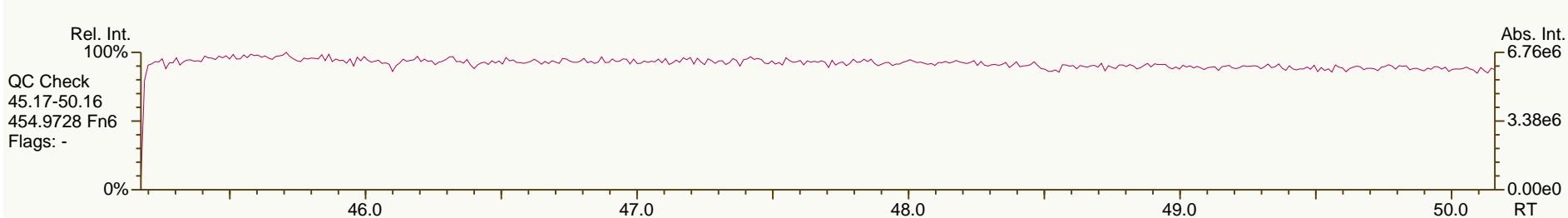
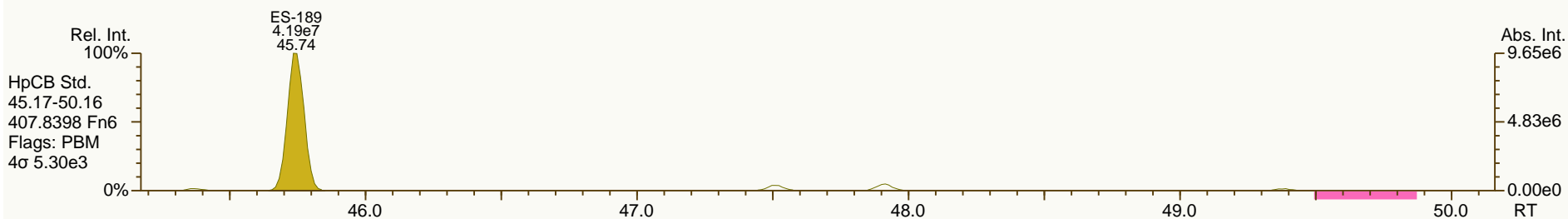
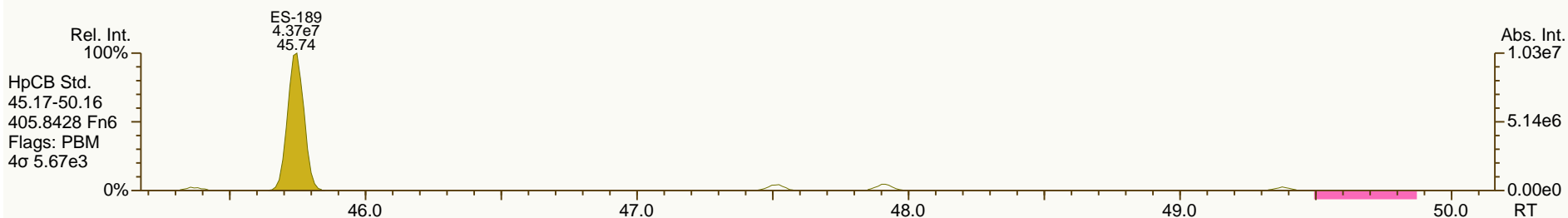
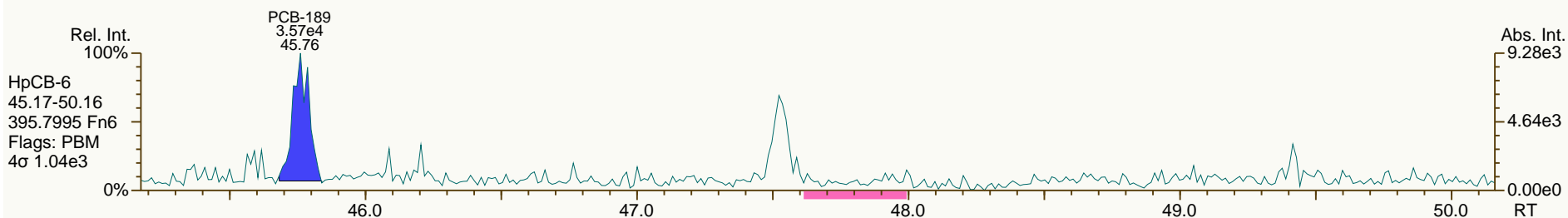
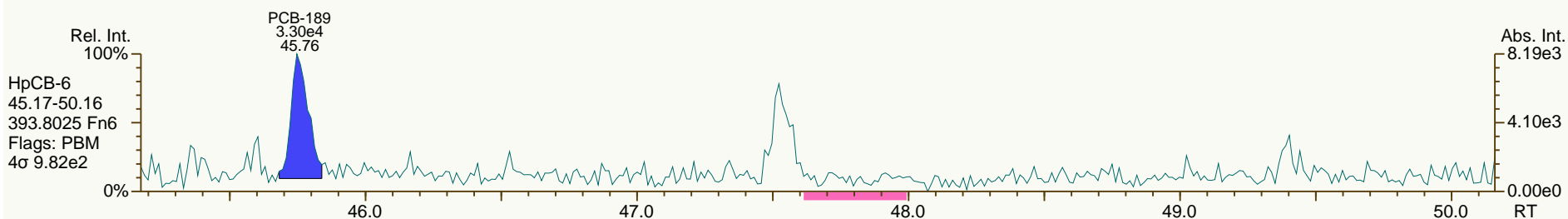
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SGS-AP ID: A6506\_11899\_PCB\_003  
Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 51

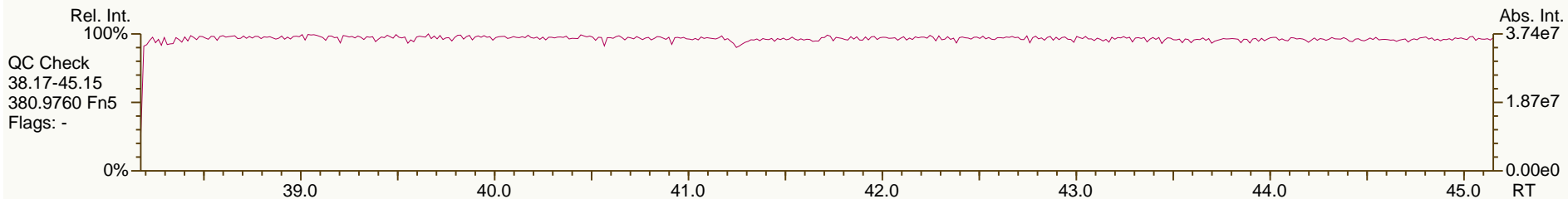
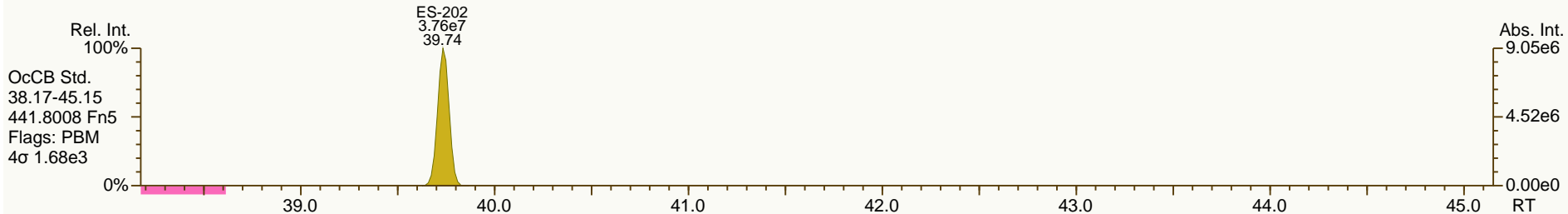
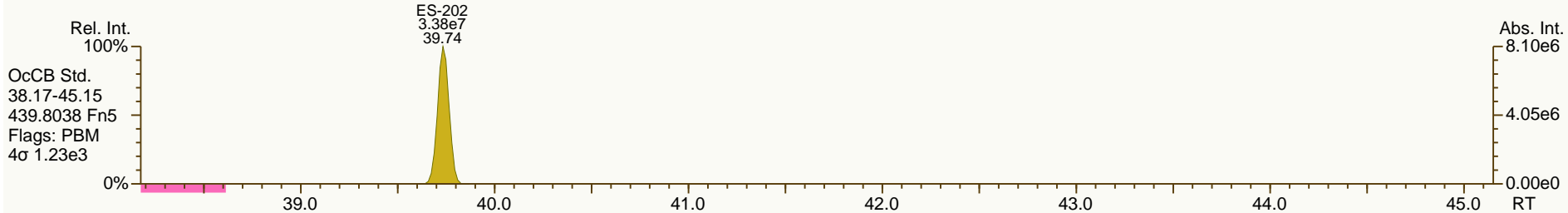
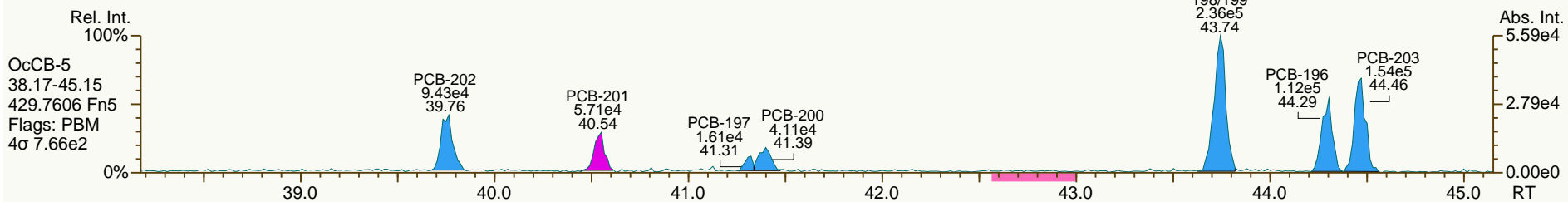
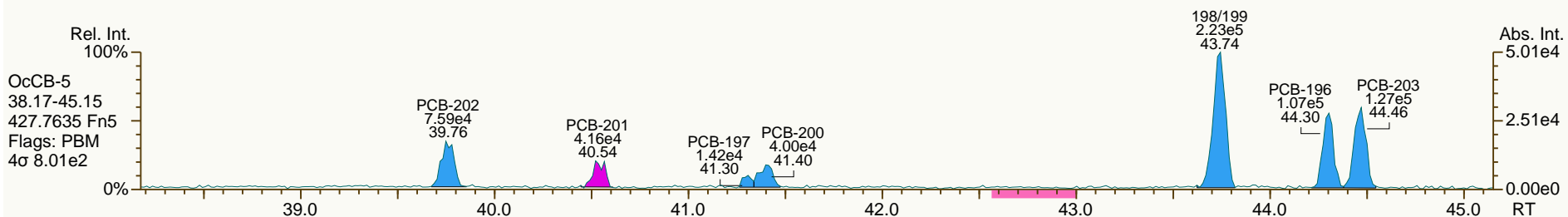
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SGS-AP ID: A6506\_11899\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 51

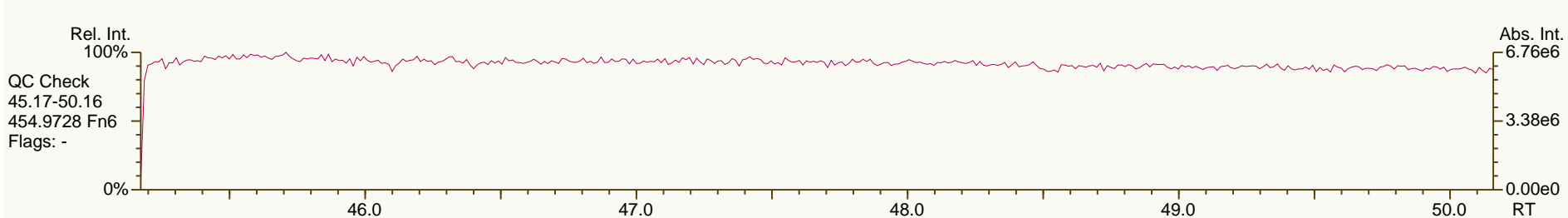
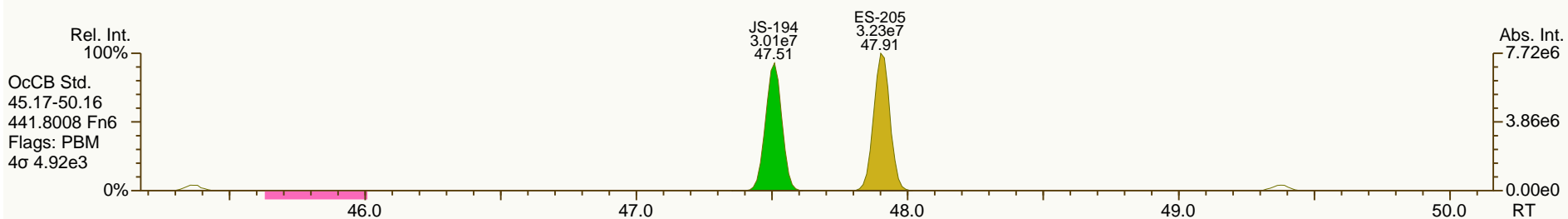
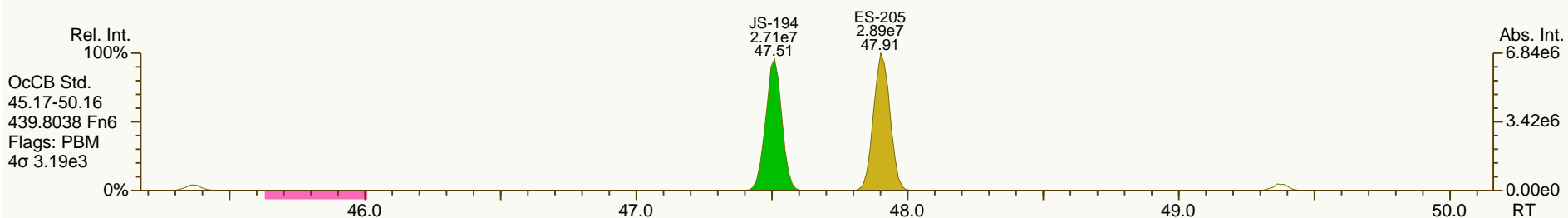
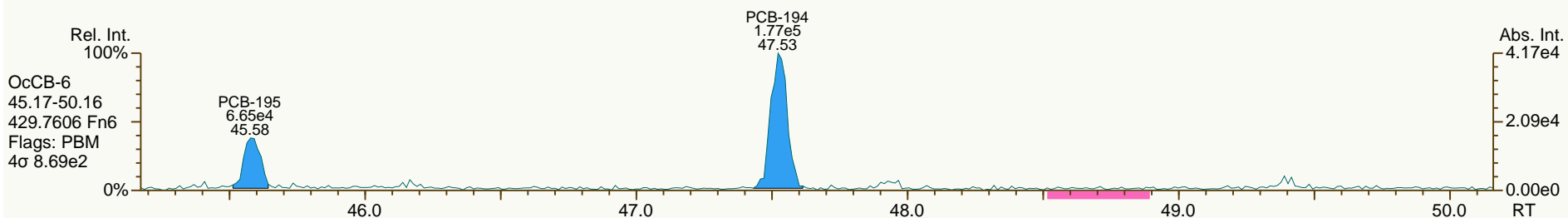
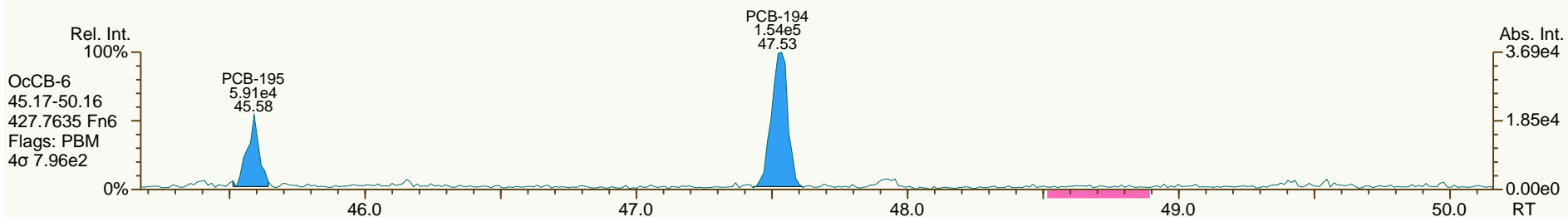
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SGS-AP ID: A6506\_11899\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 51

Acq: 27-Mar-2014 16:08:42  
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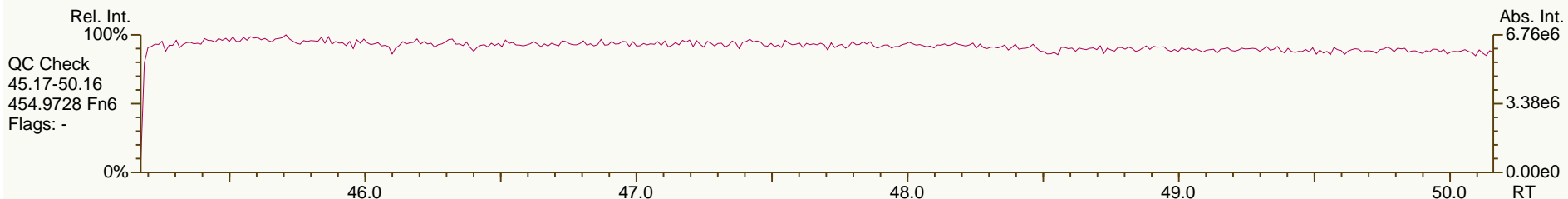
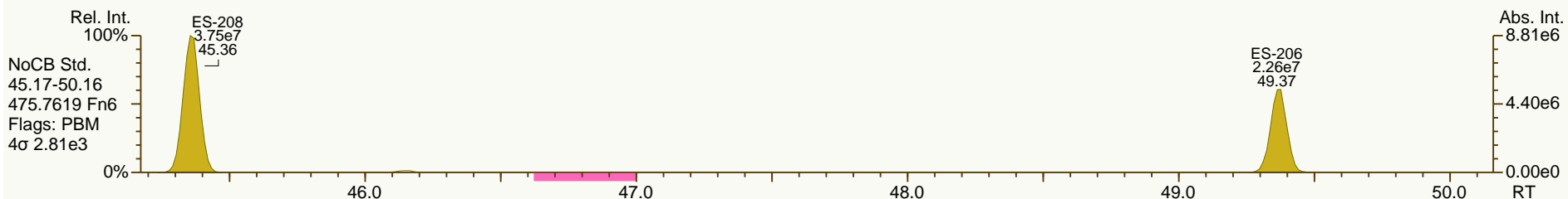
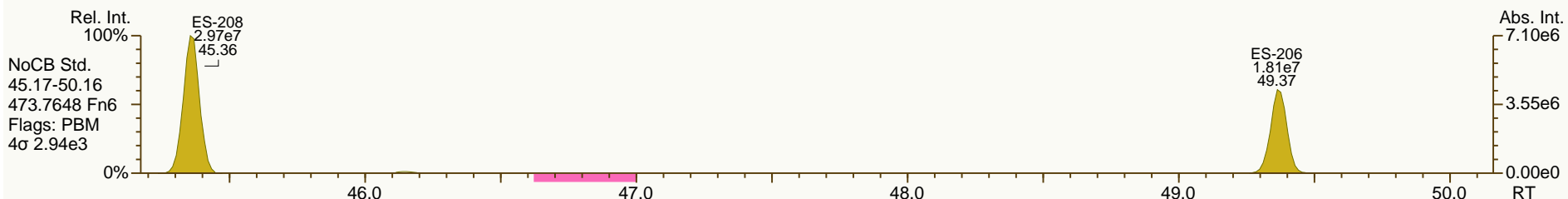
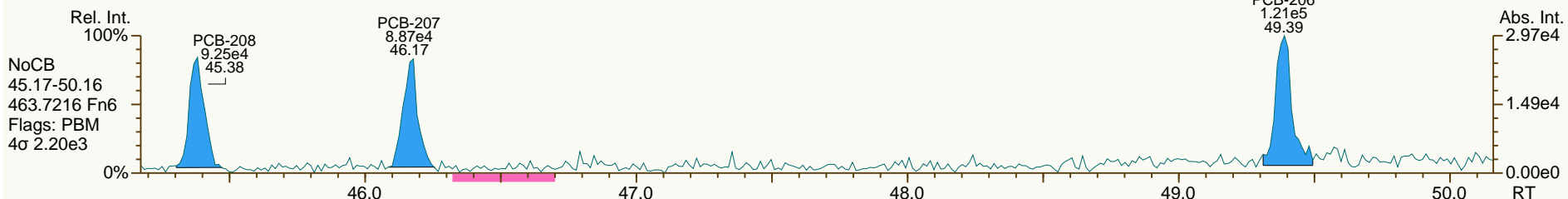
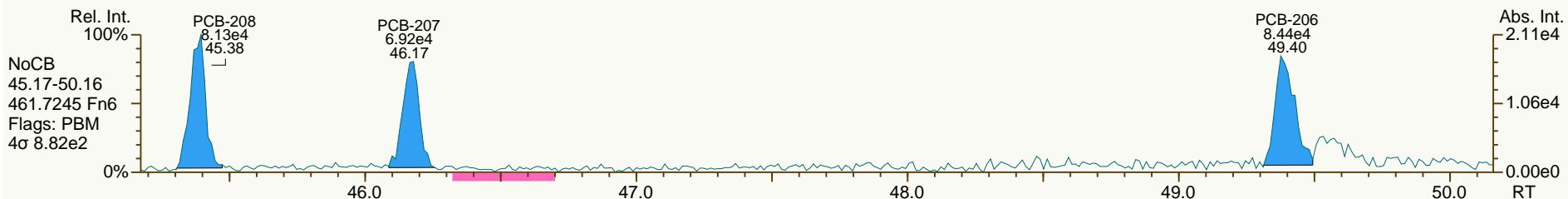




SGS-AP ID: A6506\_11899\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
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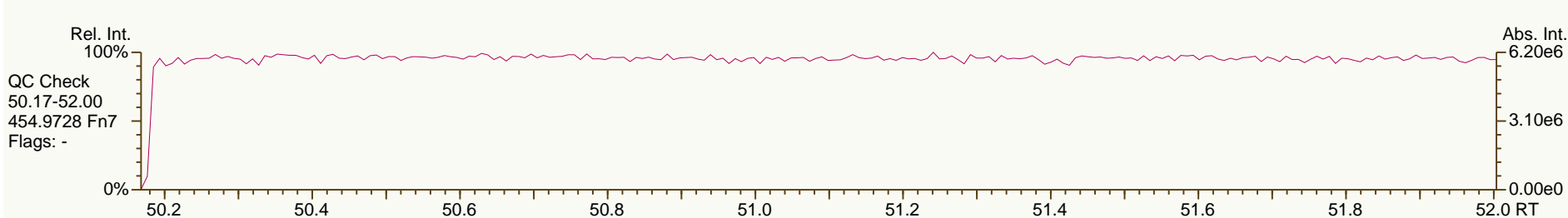
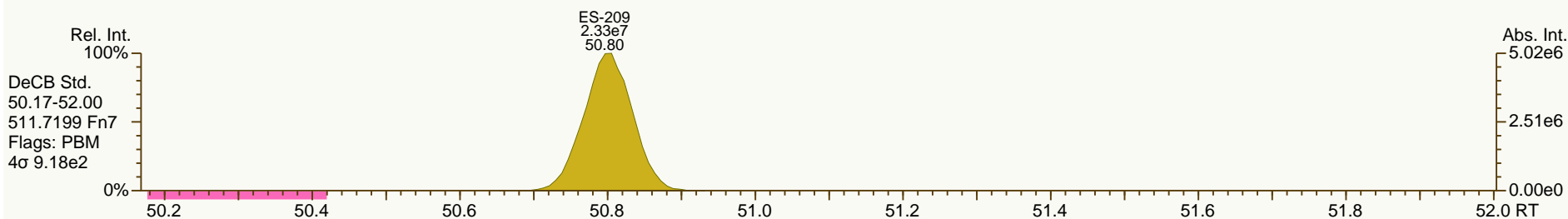
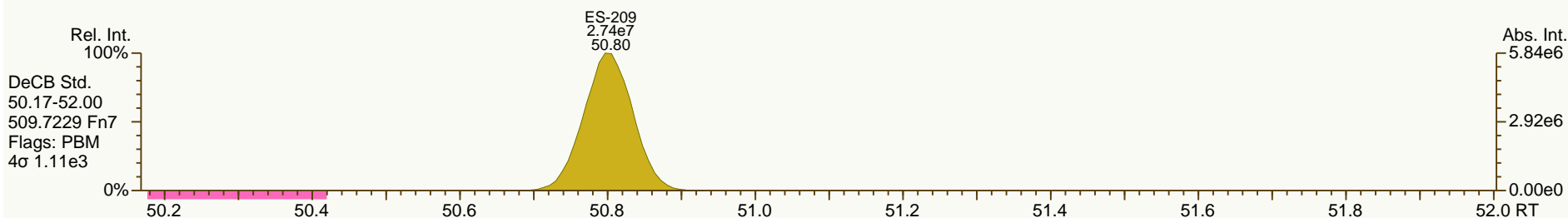
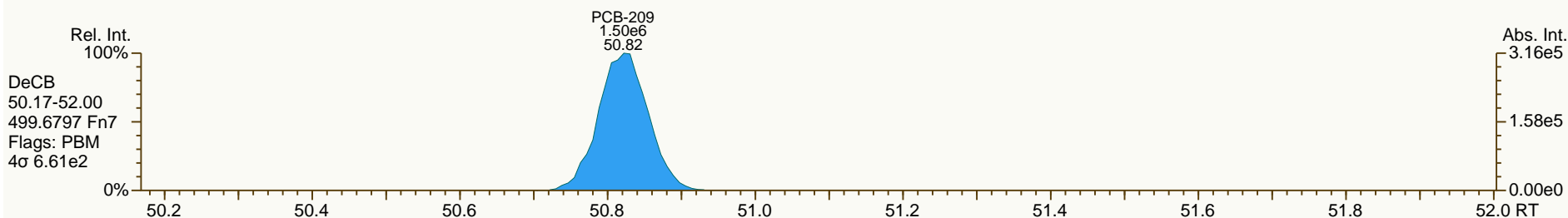
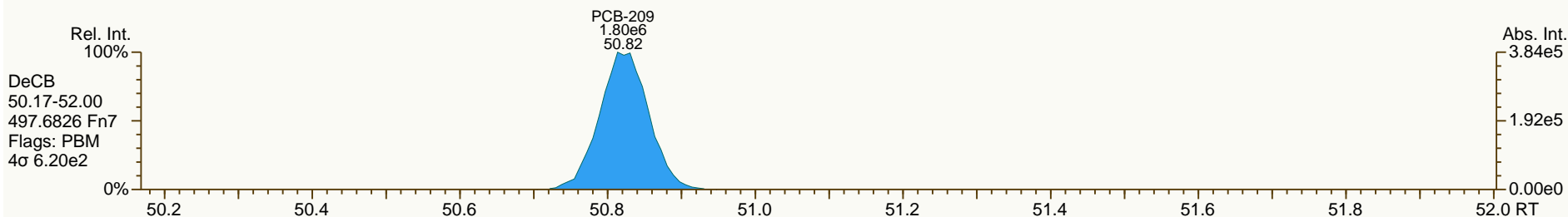
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SGS-AP ID: A6506\_11899\_PCB\_003  
 Instr: AutoSpec-Premier MM7

Sample ID: PB079-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 51

Acq: 27-Mar-2014 16:08:42  
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Lab ID: A6506\_11899\_PCB\_004

ACQ: 27-Mar-2014 17:03:52 LKB

Wt/Vol: 0.96 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA

Client ID: PB081\_A-1SWMID-140314-N (TOTAL)

UTP: 30-Mar-2014 13:53 LKB

J-level: 10.5 pg/L Split: 1

Checkcode: 761-905-WTS

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Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79		1.0006	1.0006	0	5.22E+06	0.77	1.15	80.1	7.09E+03	1.15
PCB-81 344'5'-TeCB	32.32	J EMPC	1.0005	1.0008	+0.6	1.72E+05	0.61	1.12	2.81	7.09E+03	1.15
PCB-105 233'44'-PeCB	35.77		1.0006	1.0006	0	1.30E+07	0.62	1.11	250	3.78E+03	0.755
PCB-114 2344'5'-PeCB	35.23		1.0007	1.0006	-0.2	7.53E+05	0.64	1.20	13.4	3.78E+03	0.706
PCB-118 23'44'5'-PeCB	34.77		1.0006	1.0006	0	2.40E+07	0.62	1.19	445	3.78E+03	0.716
PCB-123 23'44'5'-PeCB	34.49		1.0006	1.0006	0	7.55E+05	0.65	1.21	13.7	3.78E+03	0.685
PCB-126 33'44'5'-PeCB	38.38	J	1.0005	1.0005	0	9.31E+04	0.59	1.11	2.12	3.16E+03	0.75
PCB-156/157 ...-HxCB	40.92	C	1.0005	1.0002	-0.7	1.04E+06	1.20	1.10	23.7	2.16E+03	0.697
PCB-167 23'44'55'-HxCB	39.94	J	1.0006	1.0005	-0.2	3.48E+05	1.10	1.16	7.15	2.16E+03	0.455
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.16E+03	0.545
PCB-189 233'44'55'-HpCB	45.76	J	1.0004	1.0002	-0.5	4.67E+04	1.02	1.07	1.22	1.76E+03	0.465
PCB-209 DeCB	50.83		1.0004	1.0004	0	1.30E+06	1.14	1.11	54	1.28E+03	0.627
ES PCB-1	11.87		0.7245	0.7245	0	4.84E+07	3.26	1.19	28.2 %	15%	150%
ES PCB-3	14.16		0.8640	0.8641	+0.1	6.90E+07	3.31	1.09	44.1 %	15%	150%
ES PCB-4	14.41		0.8795	0.8793	-0.2	3.69E+07	1.61	0.52	49 %	25%	150%
ES PCB-15	20.12		1.2271	1.2277	+0.7	1.38E+08	1.57	1.04	92.2 %	25%	150%
ES PCB-19	17.49		1.0673	1.0673	0	4.75E+07	1.07	0.51	65.1 %	25%	150%
ES PCB-37	26.44		1.0787	1.0790	+0.5	1.33E+08	1.10	1.66	90.8 %	25%	150%
ES PCB-54	20.40		0.8328	0.8325	-0.4	5.88E+07	0.78	0.86	77.4 %	25%	150%
ES PCB-77	32.77		1.3364	1.3372	+1.6	1.18E+08	0.80	1.38	97.1 %	25%	150%
ES PCB-81	32.29		1.3170	1.3177	+1.4	1.14E+08	0.82	1.37	94.8 %	25%	150%
ES PCB-104	25.38		0.8325	0.8322	-0.5	6.91E+07	1.62	0.80	106 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	9.79E+07	1.59	1.20	100 %	25%	150%
ES PCB-114	35.21		1.1543	1.1547	+0.8	9.81E+07	1.62	1.22	99 %	25%	150%
ES PCB-118	34.74		1.1391	1.1394	+0.6	9.51E+07	1.62	1.16	101 %	25%	150%
ES PCB-123	34.46		1.1299	1.1302	+0.6	9.52E+07	1.57	1.19	98.6 %	25%	150%
ES PCB-126	38.36		1.2575	1.2580	+1.2	8.31E+07	1.55	1.03	99.4 %	25%	150%
ES PCB-153	36.33		0.9716	0.9716	0	6.71E+07	1.30	1.11	94.4 %	25%	150%
ES PCB-155	30.33		0.8114	0.8111	-0.5	9.40E+07	1.28	1.59	93.9 %	25%	150%
ES PCB-156/157	40.91		1.0939	1.0941	+0.5	1.68E+08	1.27	1.60	83.1 %	25%	150%
ES PCB-167	39.92		1.0677	1.0678	+0.2	8.77E+07	1.28	1.67	83.4 %	25%	150%
ES PCB-169	43.62		1.1664	1.1667	+0.8	7.76E+07	1.29	1.56	79.1 %	25%	150%
ES PCB-170	43.14		0.9081	0.9080	-0.3	5.13E+07	1.09	0.95	96.6 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	6.20E+07	1.08	1.14	96.7 %	25%	150%
ES PCB-188	35.20		0.7413	0.7410	-0.6	6.65E+07	1.06	0.94	112 %	25%	150%
ES PCB-189	45.75		0.9629	0.9629	0	7.49E+07	1.04	1.58	103 %	25%	150%
ES PCB-202	39.74		0.8366	0.8364	-0.5	6.33E+07	0.93	0.97	103 %	25%	150%
ES PCB-205	47.91		1.0084	1.0084	0	5.34E+07	0.90	1.24	93.7 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	3.60E+07	0.79	0.83	94.8 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	5.92E+07	0.81	1.17	110 %	25%	150%
ES PCB-209	50.80		1.0694	1.0694	0	4.54E+07	1.18	1.11	89.3 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	1.54E+08	1.08	1.11	104 %	30%	135%
SS PCB-111	32.79		1.0750	1.0752	+0.4	1.06E+08	1.60	1.03	108 %	30%	135%
SS PCB-178	37.77		1.0100	1.0100	0	4.46E+07	1.09	0.62	108 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	1.54E+08	1.08	1.85	94.6 %	30%	135%
CS PCB-111	32.79		1.0750	1.0752	+0.4	1.06E+08	1.60	1.22	107 %	30%	135%
CS PCB-178	37.77		1.0100	1.0100	0	4.46E+07	1.09	0.58	121 %	30%	135%
JS PCB-9	16.39					1.44E+08	1.57				
JS PCB-52	24.51					8.82E+07	0.80				
JS PCB-101	30.49					8.14E+07	1.60				
JS PCB-138	37.39					6.30E+07	1.29				
JS PCB-194	47.51					4.58E+07	0.88				
					<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
					Mono-CBs	47	47	1.67			
					Di-CBs	576	576	1.98			
					Tri-CBs	5,490	5,490	1.7			
					Tetra-CBs	11,400	11,400	0.824			
					Penta-CBs	4,470	4,470	0.669			
					Hexa-CBs	889	901	0.493			
					Hepta-CBs	199	199	0.539			
					Octa-CBs	45.8	46.3	0.539			
					Nona-CBs	8.74	10.3	1.47			
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	8.53E+05	3.40	0.95	38.7	6.71E+03	1.89
PCB-2 3-MoCB	13.99	J	0.9880	0.9878	-0.2	1.24E+05	3.44	1.20	3.14	6.71E+03	1.22
PCB-3 4-MoCB	14.17	J	1.0010	1.0009	-0.1	1.72E+05	3.34	1.01	5.17	6.71E+03	1.45
PCB-4 22'-DiCB	14.43		1.0011	1.0011	0	5.31E+06	1.59	1.23	245	7.60E+03	2.51
PCB-10 26'-DiCB	14.61	J	1.0135	1.0136	+0.1	3.19E+05	SI	1.90	9.5	7.60E+03	1.62
PCB-9 25'-DiCB	16.41	J	1.0010	1.0010	0	5.61E+05	SI	1.01	8.4	1.08E+04	1.47
PCB-7 24'-DiCB	16.57	J	1.0111	1.0114	+0.3	2.80E+05	SI	1.14	3.72	1.08E+04	1.31
PCB-6 23'-DiCB	16.80		1.0249	1.0250	+0.1	4.47E+06	1.60	1.06	63.7	1.08E+04	1.4
PCB-5 23'-DiCB	17.09	J	1.0433	1.0430	-0.3	1.73E+05	SI	1.07	2.44	1.08E+04	1.39
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	7.79E+06	1.58	1.10	107	1.08E+04	1.35
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	1.08E+04	1.17
PCB-11 33'-DiCB	19.56	B	0.9721	0.9721	0	2.11E+06	1.45	1.10	29	1.08E+04	1.35
PCB-13/12 34'/34'-DiCB	19.83	C	0.9866	0.9854	-1.4	1.58E+06	1.52	1.10	21.8	1.08E+04	1.36
PCB-15 44'-DiCB	20.13		1.0008	1.0006	-0.2	5.79E+06	1.46	1.02	86	1.08E+04	1.46
PCB-19 22'6-TrCB	17.51		1.0010	1.0010	0	4.86E+06	1.09	1.15	187	6.74E+03	2.24
PCB-30/18 246/22'5-TrCB	19.28	C	1.1014	1.1020	+0.7	4.68E+07	1.05	1.54	1,340	6.74E+03	1.68
PCB-17 22'4-TrCB	19.67		1.1243	1.1246	+0.4	1.45E+07	1.05	1.32	482	6.74E+03	1.94
PCB-27 23'6-TrCB	19.86		1.1353	1.1356	+0.4	3.74E+06	1.05	1.80	91.5	6.74E+03	1.43
PCB-24 236-TrCB	19.99	J	1.1430	1.1425	-0.6	2.87E+05	1.11	1.71	7.41	6.74E+03	1.51
PCB-16 22'3-TrCB	20.09		1.1484	1.1487	+0.4	1.08E+07	1.06	1.01	470	6.74E+03	2.54
PCB-32 24'6-TrCB	20.57		1.1758	1.1762	+0.5	2.19E+07	1.05	1.90	508	6.74E+03	1.35

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.72	J	0.8218	0.8215	-0.4	3.02E+05	1.09	1.28	3.73	8.05E+03	0.974
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	8.05E+03	0.973
PCB-26/29 23'5'/245-TrCB	22.13	C	0.8383	0.8370	-1.7	1.23E+07	0.99	1.29	150	8.05E+03	0.964
PCB-25 23'4'-TrCB	22.36		0.8456	0.8455	-0.1	7.75E+06	1.01	1.28	94.9	8.05E+03	0.967
PCB-31 24'5'-TrCB	22.63		0.8562	0.8559	-0.4	6.68E+07	1.01	1.34	782	8.05E+03	0.924
PCB-28/20 244'/233'-TrCB	22.91	C	0.8670	0.8663	-1.0	6.68E+07	1.01	1.25	839	8.05E+03	0.992
PCB-21/33 234'/23'4'-TrCB	23.12	C	0.8738	0.8744	+0.8	1.48E+07	1.00	1.29	181	8.05E+03	0.965
PCB-22 234'-TrCB	23.48		0.8880	0.8878	-0.3	1.54E+07	1.00	1.20	202	8.05E+03	1.03
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	8.05E+03	0.942
PCB-39 34'5'-TrCB	25.23	J	0.9522	0.9539	+2.6	7.02E+05	0.99	1.36	8.13	8.05E+03	0.915
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.21	ND	8.05E+03	1.02
PCB-35 33'4'-TrCB	26.09		0.9871	0.9867	-0.6	9.21E+05	1.18	1.16	12.5	8.05E+03	1.07
PCB-37 344'-TrCB	26.47		1.0007	1.0009	+0.3	8.93E+06	1.01	1.08	130	8.05E+03	1.15
PCB-54 22'66'-TeCB	20.42	J	1.0010	1.0010	0	2.75E+05	0.77	1.35	7.25	2.31E+03	0.55
PCB-50/53 22'46'/22'56'-TeCB	22.38	C	0.9145	0.9134	-1.5	1.54E+07	0.79	0.92	306	3.14E+03	0.619
PCB-45 22'36'-TeCB	23.00		0.9383	0.9385	+0.3	1.37E+07	0.77	0.80	315	3.14E+03	0.716
PCB-51 22'46'-TeCB	23.08		0.9413	0.9416	+0.4	4.14E+06	0.78	0.93	82	3.14E+03	0.619
PCB-46 22'36'-TeCB	23.28		0.9499	0.9498	-0.1	4.91E+06	0.79	0.73	123	3.14E+03	0.782
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	9.16E+07	0.79	0.89	1,880	3.14E+03	0.64
PCB-73 23'5'6'-TeCB	24.65	J	1.0062	1.0060	-0.3	2.24E+05	0.74	1.18	3.48	3.14E+03	0.485
PCB-43 22'35'-TeCB	24.75		1.0101	1.0101	0	2.54E+06	0.79	0.77	60.4	3.14E+03	0.743
PCB-69/49 23'46'/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	5.59E+07	0.79	1.10	933	3.14E+03	0.521
PCB-48 22'45'-TeCB	25.23		1.0295	1.0296	+0.2	1.49E+07	0.79	0.91	301	3.14E+03	0.631
PCB-44/47/65 ...-TeCB	25.42	C	1.0384	1.0374	-1.5	8.41E+07	0.79	0.96	1,600	3.14E+03	0.594
PCB-59/62/75 ...-TeCB	25.72	C	1.0496	1.0493	-0.5	7.67E+06	0.80	1.25	113	3.14E+03	0.459
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	1.86E+07	0.79	0.83	409	3.14E+03	0.689
PCB-41 22'34'-TeCB	26.22		1.0698	1.0698	0	4.59E+06	0.78	0.73	115	3.14E+03	0.784
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	3.76E+07	0.79	0.93	742	3.14E+03	0.616
PCB-64 234'6'-TeCB	26.52		1.0819	1.0821	+0.3	4.27E+07	0.78	1.32	594	3.14E+03	0.434
PCB-72 23'55'-TeCB	27.23	J	0.8436	0.8433	-0.5	4.45E+05	0.71	1.29	6.31	7.09E+03	1
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	2.38E+06	0.78	1.37	31.8	7.09E+03	0.945
PCB-57 233'5'-TeCB	27.86	J	0.8630	0.8628	-0.3	2.79E+05	0.86	1.23	4.15	7.09E+03	1.05
PCB-58 233'5'-TeCB	28.08	J EMPC	0.8693	0.8694	+0.2	1.19E+05	0.59	1.26	1.73	7.09E+03	1.02
PCB-67 23'45'-TeCB	28.23		0.8741	0.8740	-0.2	1.67E+06	0.76	1.31	23.4	7.09E+03	0.988
PCB-63 234'5'-TeCB	28.45		0.8811	0.8810	-0.2	2.65E+06	0.76	1.36	35.7	7.09E+03	0.949
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8902	0	1.22E+08	0.79	1.24	1,800	7.09E+03	1.04
PCB-66 23'44'-TeCB	29.02		0.8989	0.8987	-0.3	7.14E+07	0.78	1.17	1,120	7.09E+03	1.11
PCB-55 233'4'-TeCB	29.17	J	0.9034	0.9032	-0.4	5.31E+05	0.80	1.17	8.28	7.09E+03	1.1
PCB-56 233'4'-TeCB	29.60		0.9169	0.9167	-0.4	3.42E+07	0.79	1.16	539	7.09E+03	1.11
PCB-60 2344'-TeCB	29.80		0.9229	0.9227	-0.4	1.31E+07	0.79	1.18	205	7.09E+03	1.1
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	7.09E+03	0.944
PCB-79 33'45'-TeCB	31.45	J	0.9737	0.9740	+0.6	4.06E+05	0.66	1.38	5.4	7.09E+03	0.936
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	7.09E+03	1.16
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.97E+03	0.405
PCB-96 22'366'-PeCB	25.72		1.0134	1.0135	+0.2	7.89E+05	0.65	1.20	20	1.97E+03	0.485
PCB-103 22'45'6'-PeCB	27.40	J	0.8989	0.8987	-0.3	2.30E+05	0.56	0.95	5.35	3.78E+03	0.876
PCB-94 22'356'-PeCB	27.60	J	0.9051	0.9051	0	3.19E+05	0.57	0.79	8.82	3.78E+03	1.04
PCB-95 22'35'6'-PeCB	27.98		0.9176	0.9175	-0.2	2.09E+07	0.61	0.86	533	3.78E+03	0.959

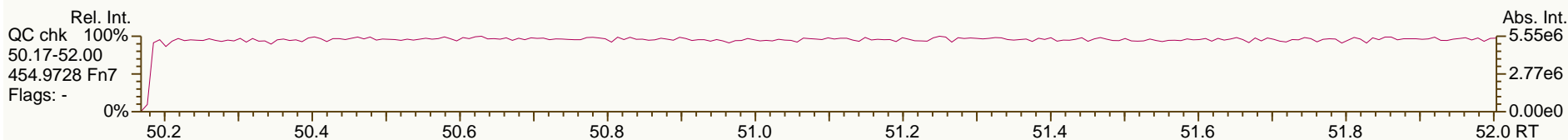
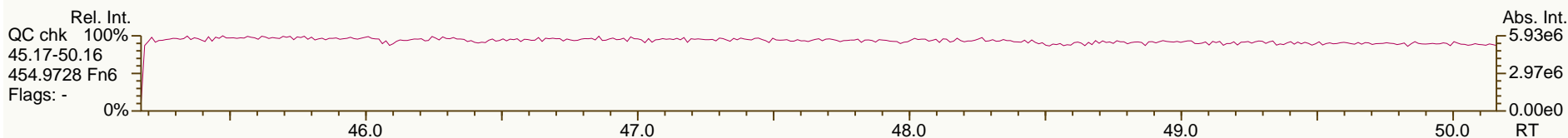
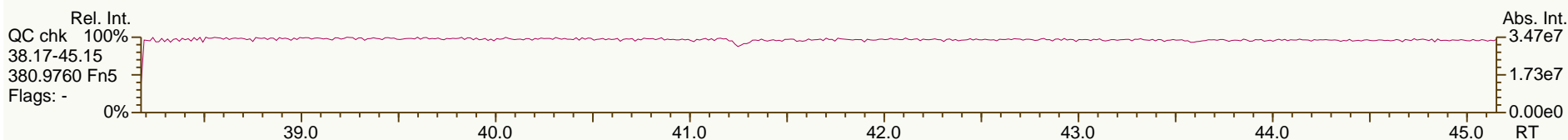
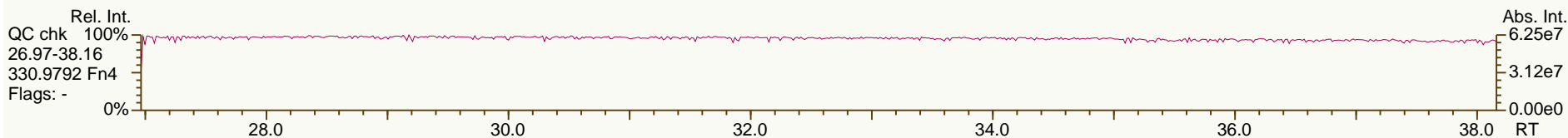
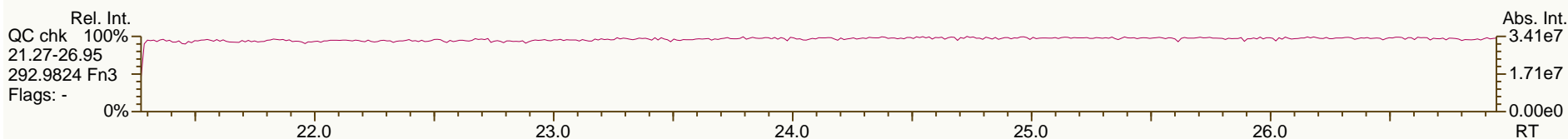
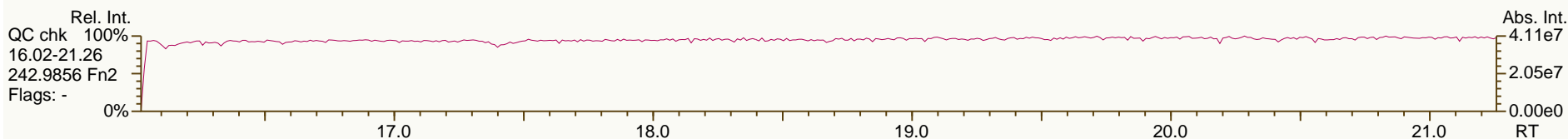
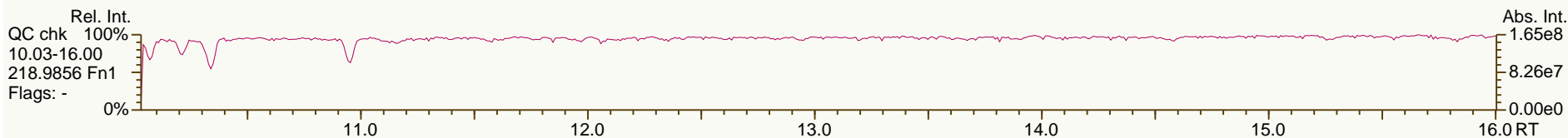
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.19	J C	0.9246	0.9245	-0.2	4.40E+05	0.61	0.88	11.1	3.78E+03	0.948
PCB-102 22'456"-PeCB	28.30		0.9282	0.9281	-0.2	1.97E+06	0.61	1.04	41.5	3.78E+03	0.796
PCB-98 22'34'6"-PeCB	NotFnd		0.9305	-		0.00E+00		0.73	ND	3.78E+03	1.14
PCB-88 22'346"-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	3.78E+03	1.05
PCB-91 22'34'6"-PeCB	28.74		0.9424	0.9424	0	5.93E+06	0.62	0.91	143	3.78E+03	0.907
PCB-84 22'33'6"-PeCB	28.93		0.9487	0.9487	0	8.76E+06	0.62	0.72	267	3.78E+03	1.15
PCB-89 22'346"-PeCB	29.35		0.9624	0.9624	0	9.54E+05	0.65	0.76	27.4	3.78E+03	1.09
PCB-121 23'45'6"-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	3.78E+03	0.681
PCB-92 22'355"-PeCB	30.01		0.9841	0.9841	0	4.11E+06	0.62	0.83	110	3.78E+03	1.01
PCB-113/90/101 ...-PeCB	30.52	C	0.9999	1.0007	+1.5	2.50E+07	0.62	0.98	559	3.78E+03	0.844
PCB-83 22'33'5"-PeCB	30.92		1.0142	1.0140	-0.4	1.34E+06	0.60	0.71	41.4	3.78E+03	1.16
PCB-99 22'44'5"-PeCB	31.02		1.0173	1.0174	+0.2	1.49E+07	0.62	0.91	361	3.78E+03	0.914
PCB-112 233'56"-PeCB	31.14	J	1.0206	1.0212	+1.1	8.69E+04	0.58	1.17	1.63	3.78E+03	0.709
PCB-108/119/86/97/125...-PeCB	31.50	C	1.0320	1.0329	+1.7	2.29E+07	0.61	1.00	506	3.78E+03	0.833
PCB-117 234'56"-PeCB	32.00		1.0495	1.0494	-0.2	9.68E+05	0.59	1.05	20.3	3.78E+03	0.79
PCB-116/85 23456/22'344"-PeCB	32.08	C	1.0525	1.0521	-0.8	7.29E+06	0.62	0.98	163	3.78E+03	0.843
PCB-110 233'4'6"-PeCB	32.21		1.0561	1.0564	+0.6	3.56E+07	0.62	1.12	702	3.78E+03	0.744
PCB-115 2344'6"-PeCB	32.31		1.0590	1.0596	+1.2	8.61E+05	0.66	1.15	16.5	3.78E+03	0.724
PCB-82 22'33'4"-PeCB	32.50		1.0655	1.0657	+0.4	4.48E+06	0.64	0.69	142	3.78E+03	1.2
PCB-111 233'55"-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	3.78E+03	0.689
PCB-120 23'455"-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.78E+03	0.678
PCB-107/124 ...-PeCB	34.18	C	0.9916	0.9917	+0.2	1.08E+06	0.63	1.10	21.6	3.78E+03	0.757
PCB-109 233'46"-PeCB	34.38		0.9976	0.9976	0	2.05E+06	0.64	1.24	36.4	3.78E+03	0.669
PCB-106 233'45"-PeCB	34.59	J	1.0038	1.0037	-0.2	5.03E+04	0.60	1.08	1.03	3.78E+03	0.77
PCB-122 233'4'5"-PeCB	35.06		1.0091	1.0090	-0.2	5.17E+05	0.59	1.00	11	3.78E+03	0.846
PCB-127 33'455"-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	3.78E+03	0.774
PCB-155 22'44'66"-HxCB	30.34	J EMPC	1.0007	1.0004	-0.5	2.49E+04	1.00	1.26	0.44	1.63E+03	0.278
PCB-152 22'3566"-HxCB	30.51	J EMPC	1.0060	1.0062	+0.4	2.71E+04	0.94	1.11	0.546	1.63E+03	0.316
PCB-150 22'34'66"-HxCB	30.65	J EMPC	1.0107	1.0106	-0.2	2.13E+04	0.97	1.12	0.423	1.63E+03	0.312
PCB-136 22'33'66"-HxCB	30.96		1.0207	1.0207	0	1.33E+06	1.22	1.03	28.8	1.63E+03	0.341
PCB-145 22'3466"-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.63E+03	0.333
PCB-148 22'34'56"-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.63E+03	0.476
PCB-151/135 ...-HxCB	33.01	C	1.0886	1.0886	0	1.98E+06	1.25	1.06	58.1	1.63E+03	0.503
PCB-154 22'44'56"-HxCB	33.23	J EMPC	1.0954	1.0956	+0.4	8.70E+04	1.49	1.25	2.18	1.63E+03	0.429
PCB-144 22'345'6"-HxCB	33.49	J	1.1041	1.1044	+0.6	3.20E+05	1.34	1.10	9.07	1.63E+03	0.486
PCB-147/149 ...-HxCB	33.79	C	1.1141	1.1142	+0.2	5.11E+06	1.29	1.11	144	1.63E+03	0.484
PCB-134 22'33'56"-HxCB	33.97		1.1199	1.1201	+0.4	4.09E+05	1.42	0.79	16.2	1.63E+03	0.68
PCB-143 22'3456"-HxCB	34.06	J EMPC	1.1225	1.1231	+1.2	4.01E+04	1.57	1.10	1.13	1.63E+03	0.485
PCB-139/140 ...-HxCB	34.30	J C	1.1312	1.1312	0	1.90E+05	1.22	1.11	5.34	1.63E+03	0.482
PCB-131 22'33'46"-HxCB	34.48	J EMPC	1.1369	1.1370	+0.2	1.26E+05	1.49	0.94	4.18	1.63E+03	0.57
PCB-142 22'3456"-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.63E+03	0.578
PCB-132 22'33'46"-HxCB	34.87		1.1494	1.1497	+0.6	2.49E+06	1.28	0.97	80.1	1.63E+03	0.552
PCB-133 22'33'55"-HxCB	35.27	J EMPC	1.1626	1.1631	+1.1	8.48E+04	1.04	1.04	2.54	1.63E+03	0.513
PCB-165 233'55'6"-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.63E+03	0.409
PCB-146 22'34'55"-HxCB	35.82		0.9582	0.9581	-0.2	9.92E+05	1.36	1.14	27.2	1.63E+03	0.47
PCB-161 233'45'6"-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.63E+03	0.378
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9722	-1.3	5.89E+06	1.25	1.39	133	1.63E+03	0.386
PCB-141 22'3455"-HxCB	36.52		0.9766	0.9767	+0.2	1.18E+06	1.29	1.03	35.6	1.63E+03	0.518

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.86		0.9859	0.9859	0	4.71E+05	1.21	0.92	16	1.63E+03	0.583
PCB-137 22'344'5'-HxCB	37.06		0.9911	0.9912	+0.2	4.73E+05	1.19	1.14	13	1.63E+03	0.472
PCB-164 233'4'5'6'-HxCB	37.14		0.9933	0.9934	+0.2	6.15E+05	1.31	1.38	13.9	1.63E+03	0.388
PCB-163/138/129 ...-HxCB	37.42	C	1.0011	1.0007	-0.9	7.78E+06	1.28	1.11	219	1.63E+03	0.482
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.63E+03	0.411
PCB-158 233'44'6'-HxCB	37.75		1.0096	1.0096	0	1.08E+06	1.28	1.50	22.5	1.63E+03	0.358
PCB-128/166 ...-HxCB	38.50	C	0.9641	0.9642	+0.2	1.34E+06	1.27	0.89	35.7	2.16E+03	0.591
PCB-159 233'455'-HxCB	39.29	J EMPC	0.9844	0.9840	-0.9	4.32E+04	0.92	1.07	0.963	2.16E+03	0.493
PCB-162 233'4'55'-HxCB	39.55	J	0.9903	0.9905	+0.5	3.22E+04	1.43	1.06	0.722	2.16E+03	0.496
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.45E+03	0.367
PCB-179 22'33'566'-HpCB	35.51		1.0086	1.0086	0	3.92E+05	1.10	1.08	11.4	1.45E+03	0.431
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.45E+03	0.455
PCB-176 22'33'466'-HpCB	36.26	J	1.0300	1.0301	+0.2	1.19E+05	1.06	1.14	3.29	1.45E+03	0.409
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.45E+03	0.436
PCB-178 22'33'55'6'-HpCB	37.78	J	1.0733	1.0733	0	1.41E+05	1.00	0.76	5.86	1.45E+03	0.615
PCB-175 22'33'45'6'-HpCB	38.33	J	1.0887	1.0889	+0.5	3.94E+04	0.93	1.08	1.23	1.88E+03	0.626
PCB-187 22'34'55'6'-HpCB	38.56		1.0952	1.0953	+0.2	1.03E+06	1.04	1.15	30.3	1.88E+03	0.588
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.88E+03	0.568
PCB-183 22'344'5'6'-HpCB	39.08		1.1101	1.1103	+0.5	4.73E+05	1.10	1.22	13.1	1.88E+03	0.554
PCB-185 22'3455'6'-HpCB	39.17	J	1.1125	1.1127	+0.5	7.70E+04	1.11	1.03	2.52	1.88E+03	0.655
PCB-174 22'33'456'-HpCB	39.28		1.1156	1.1157	+0.2	7.26E+05	1.04	0.98	25	1.88E+03	0.688
PCB-177 22'33'45'6'-HpCB	39.65		1.1262	1.1263	+0.2	4.04E+05	1.09	0.95	14.4	1.88E+03	0.714
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.88E+03	0.632
PCB-171/173 ...-HpCB	40.19	J C	1.1413	1.1417	+1.0	2.40E+05	1.09	0.95	8.58	1.88E+03	0.715
PCB-172 22'33'455'-HpCB	41.53	J	0.9080	0.9079	-0.2	1.40E+05	1.00	0.97	4.87	1.88E+03	0.696
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.88E+03	0.536
PCB-180/193 ...-HpCB	42.09	C	0.9194	0.9200	+1.5	1.74E+06	1.01	1.24	47.4	1.88E+03	0.545
PCB-191 233'44'5'6'-HpCB	42.39	J	0.9266	0.9266	0	4.70E+04	0.95	1.35	1.18	1.88E+03	0.501
PCB-170 22'33'44'5'-HpCB	43.16		0.9434	0.9434	0	6.83E+05	1.11	1.14	24.5	1.88E+03	0.672
PCB-190 233'44'56-HpCB	43.61	J	0.9533	0.9532	-0.3	1.71E+05	0.94	1.56	4.48	1.88E+03	0.491
PCB-202 22'33'55'66'-OoCB	39.76	J	1.0005	1.0004	-0.2	9.99E+04	0.83	1.05	3.14	1.53E+03	0.489
PCB-201 22'33'45'66'-OoCB	40.55	J	1.0203	1.0203	0	6.47E+04	0.87	1.13	1.89	1.53E+03	0.453
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.53E+03	0.488
PCB-197 22'33'44'66'-OoCB	41.32	J EMPC	1.0396	1.0398	+0.5	1.69E+04	1.27	1.13	0.495	1.53E+03	0.455
PCB-200 22'33'4566'-OoCB	41.40	J	1.0418	1.0419	+0.2	5.53E+04	0.78	1.07	1.71	1.53E+03	0.479
PCB-198/199 ...-OoCB	43.74	J C	1.1001	1.1007	+1.6	2.92E+05	0.93	0.72	13.4	1.53E+03	0.714
PCB-196 22'33'44'56'-OoCB	44.30	J	1.1146	1.1147	+0.3	1.38E+05	0.89	0.76	5.97	1.53E+03	0.673
PCB-203 22'344'55'6-OoCB	44.46	J	1.1188	1.1189	+0.3	1.64E+05	0.83	0.77	7.04	1.53E+03	0.666
PCB-195 22'33'44'56-OoCB	45.59	J	0.9516	0.9515	-0.3	7.24E+04	0.90	0.80	3.57	1.55E+03	0.785
PCB-194 22'33'44'55'-OoCB	47.53	J	0.9921	0.9920	-0.3	1.97E+05	0.97	0.85	9.06	1.55E+03	0.733
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.55E+03	0.589
PCB-208 22'33'455'66'-NoCB	45.38	J	1.0005	1.0005	0	7.76E+04	0.78	1.12	2.44	3.40E+03	1.12
PCB-207 22'33'44'566'-NoCB	46.17	J EMPC	1.0178	1.0178	0	4.84E+04	1.08	1.13	1.51	3.40E+03	1.11
PCB-206 22'33'44'55'6-NoCB	49.39	J	1.0004	1.0004	0	1.21E+05	0.74	1.11	6.3	3.40E+03	1.81

SGS-AP ID: A6506\_11899\_PCB\_004  
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Sample ID: PB081\_A-1SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 52

Acq: 27-Mar-2014 17:03:52  
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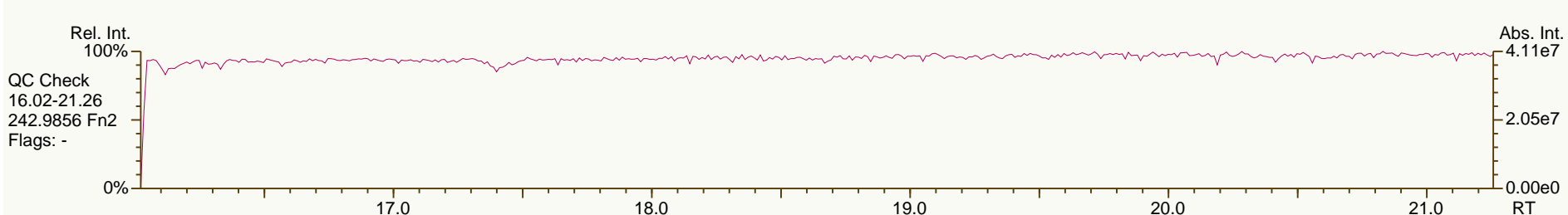
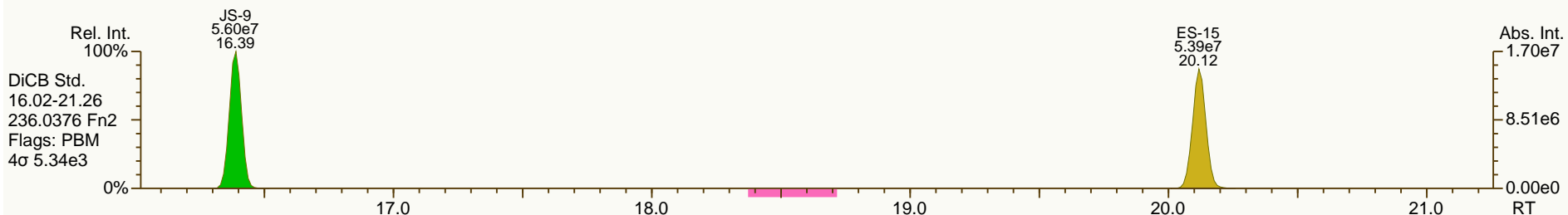
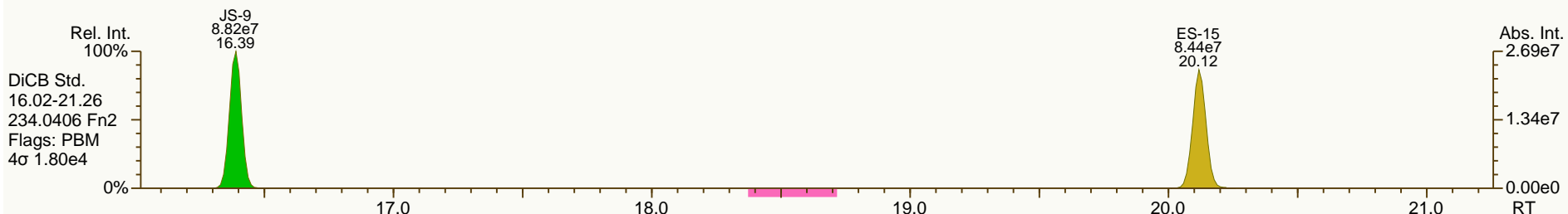
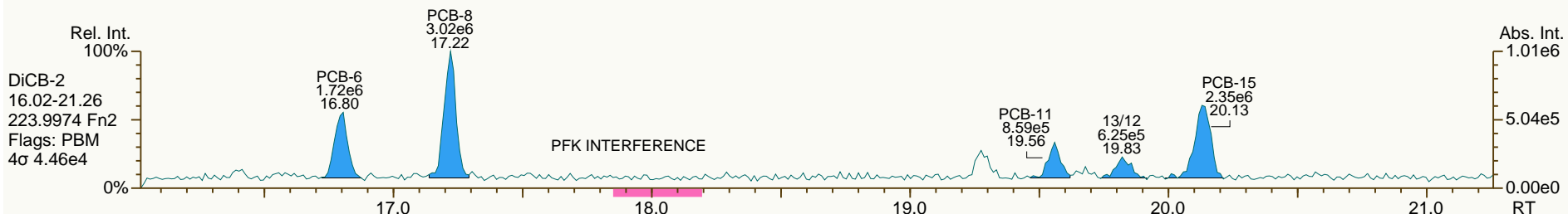
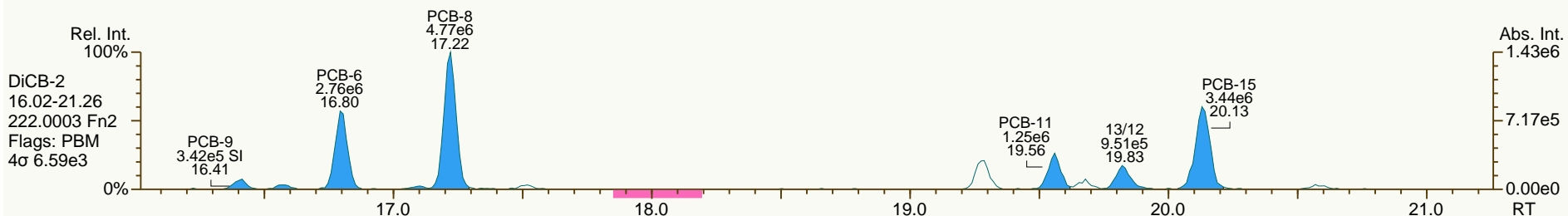
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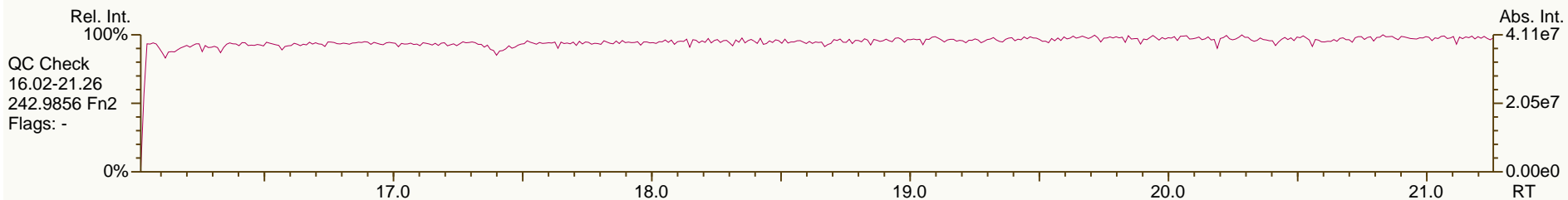
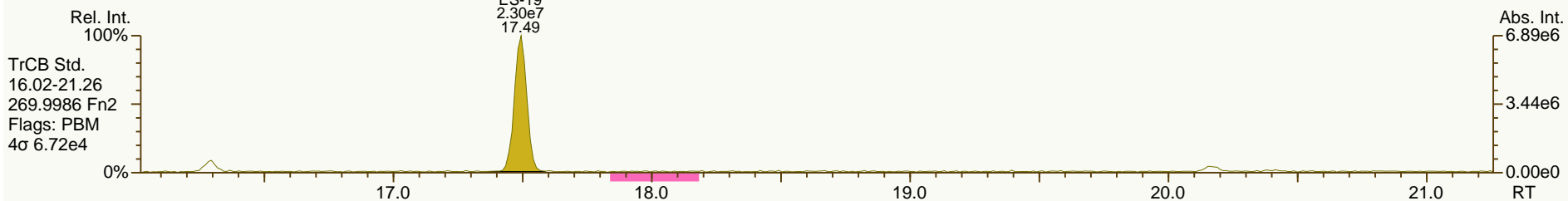
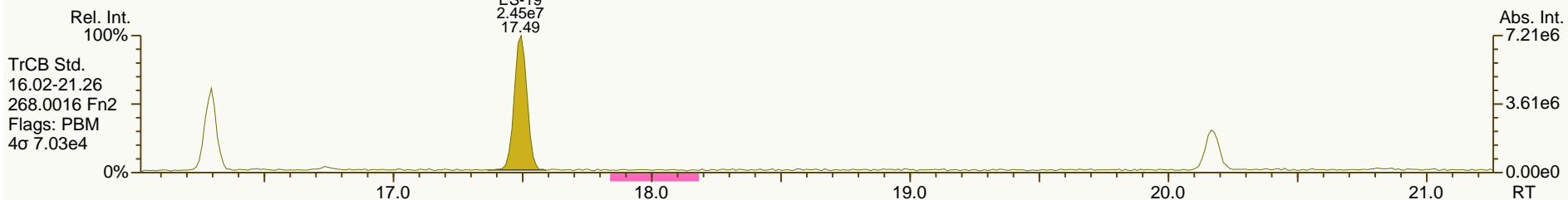
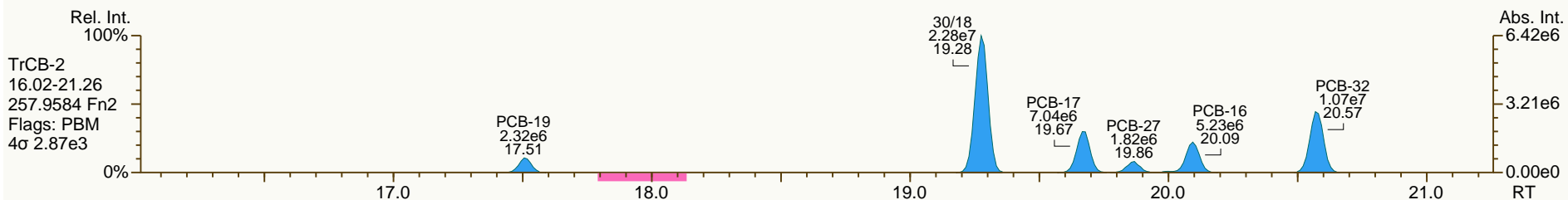
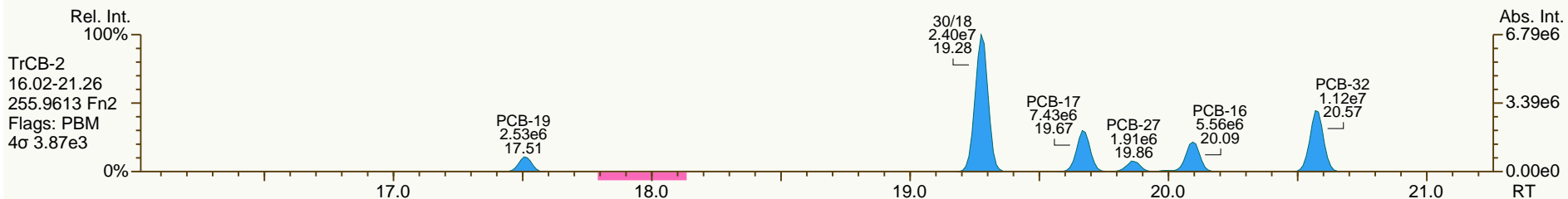
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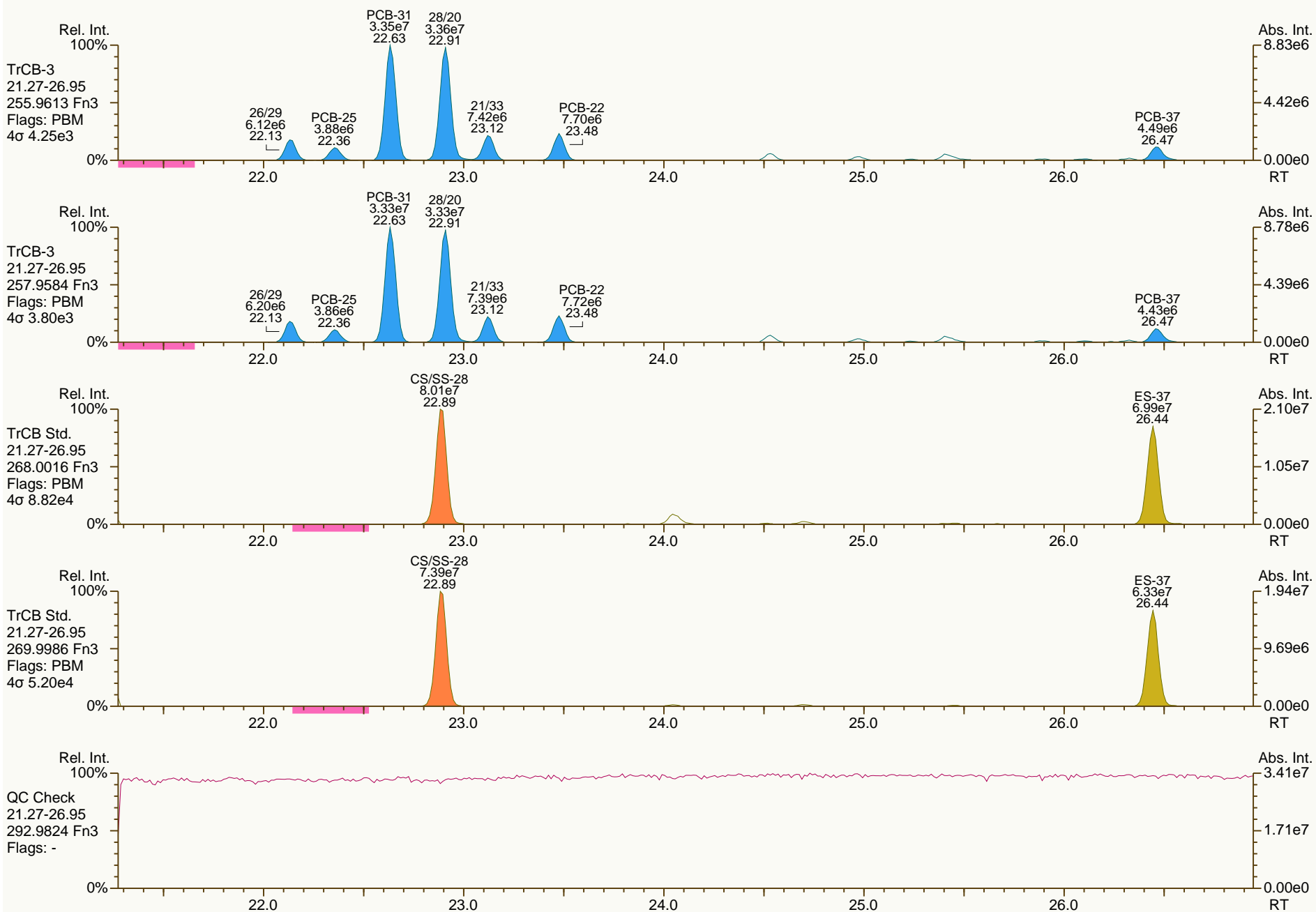
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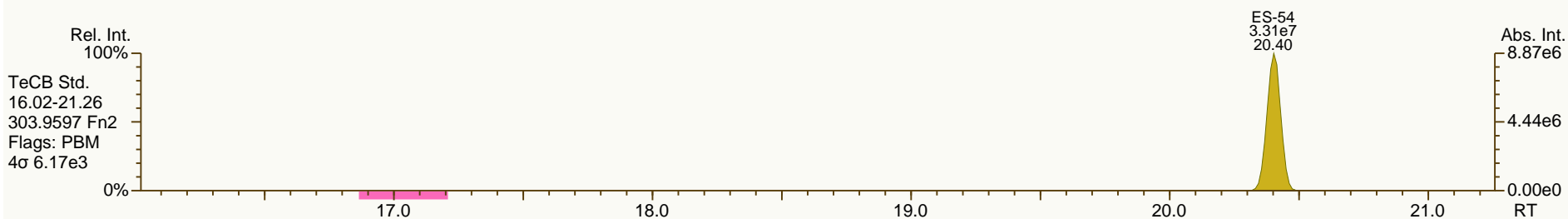
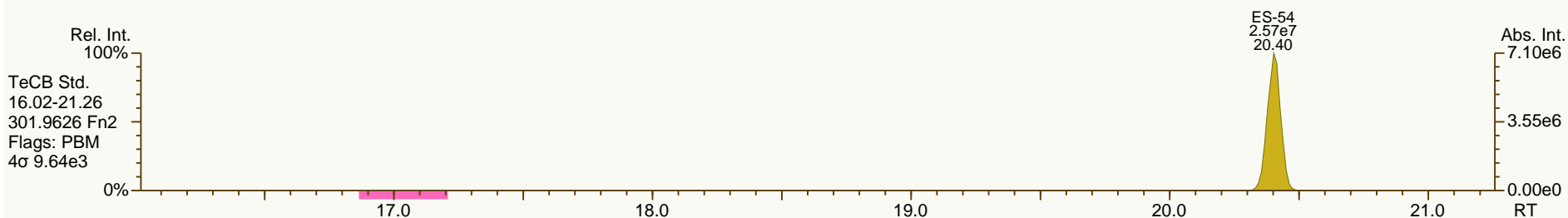
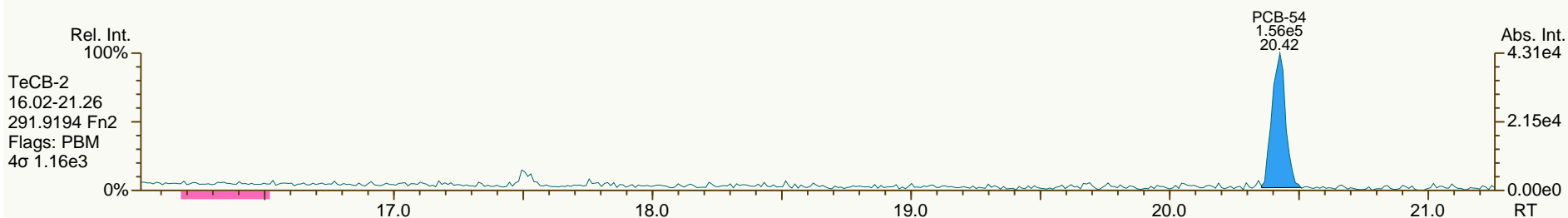
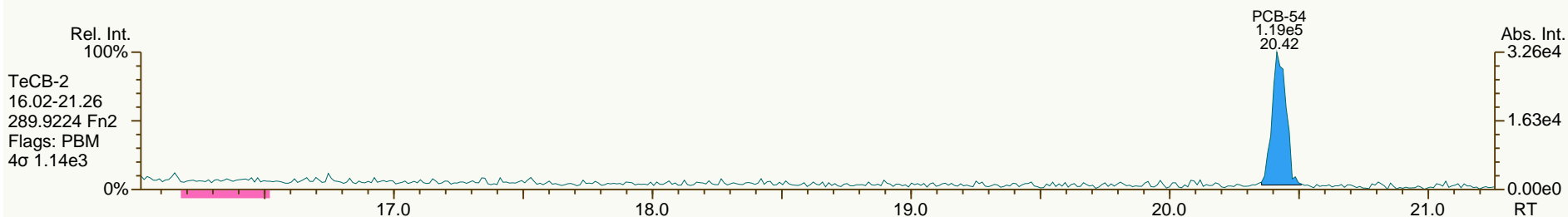
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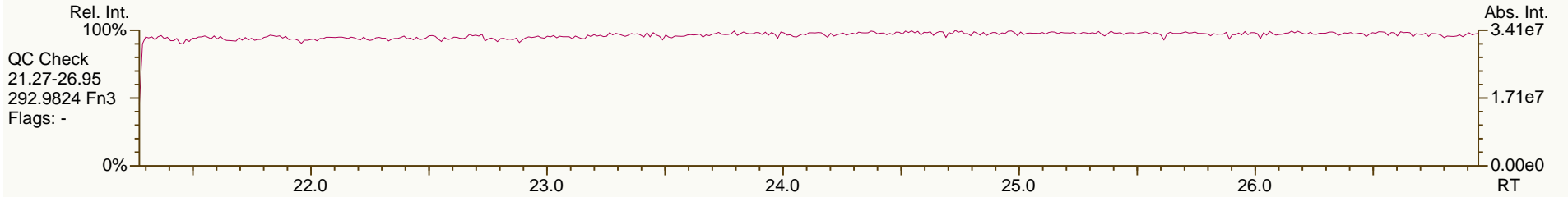
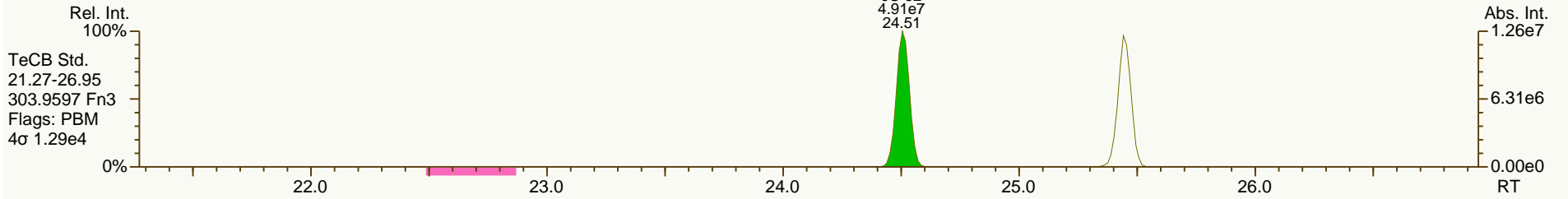
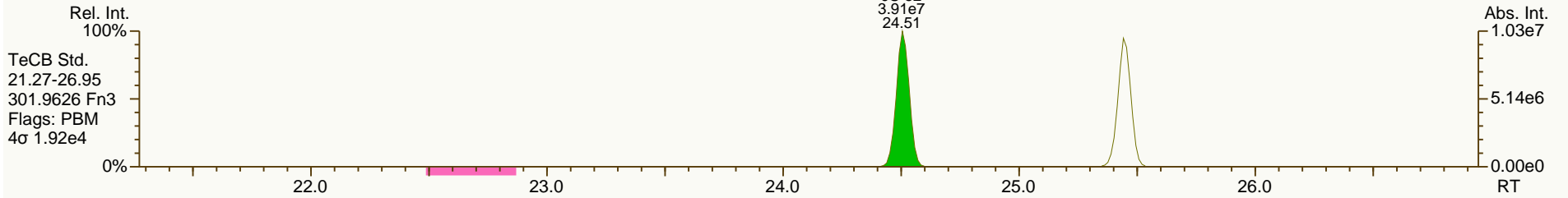
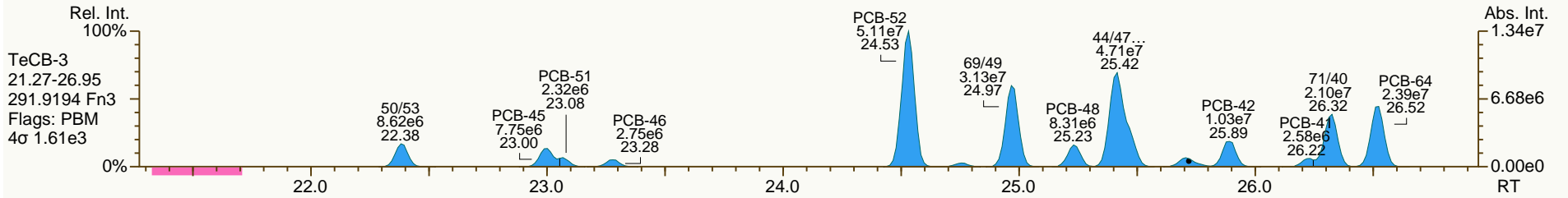
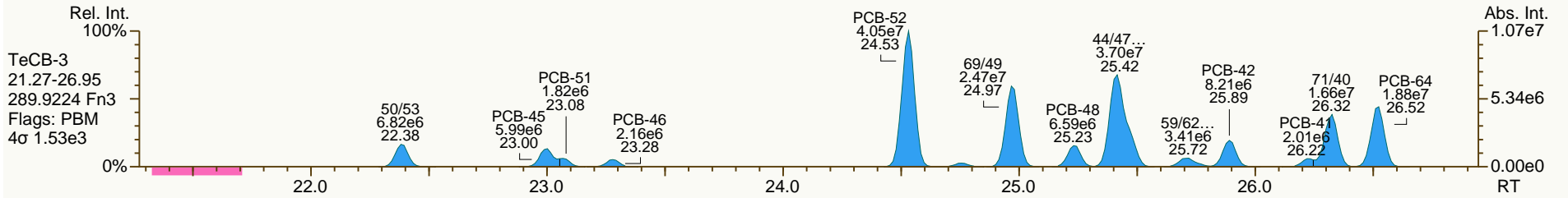
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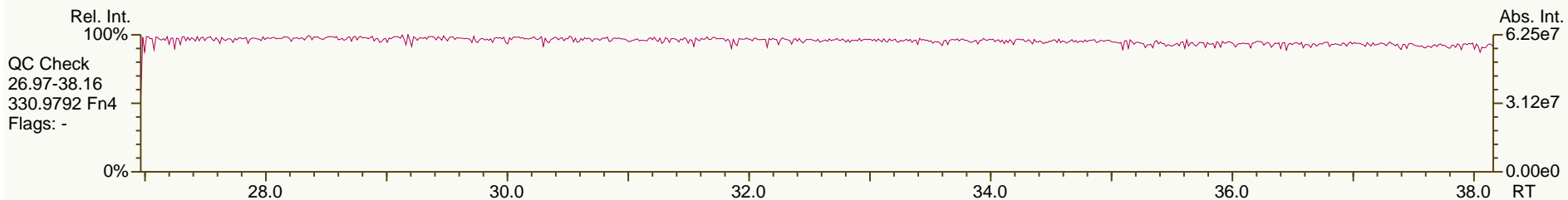
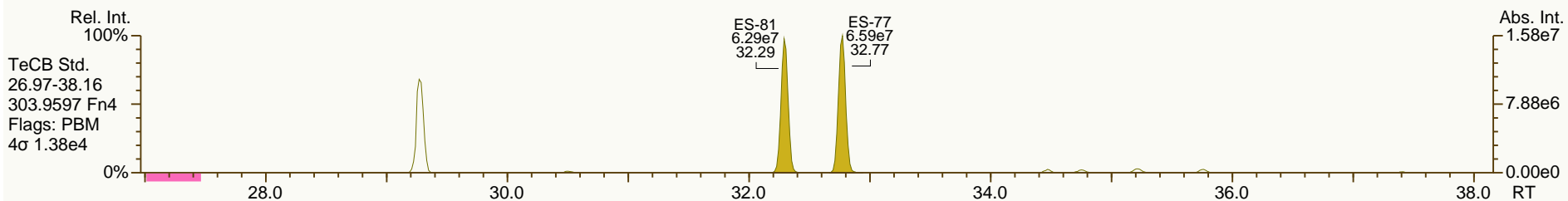
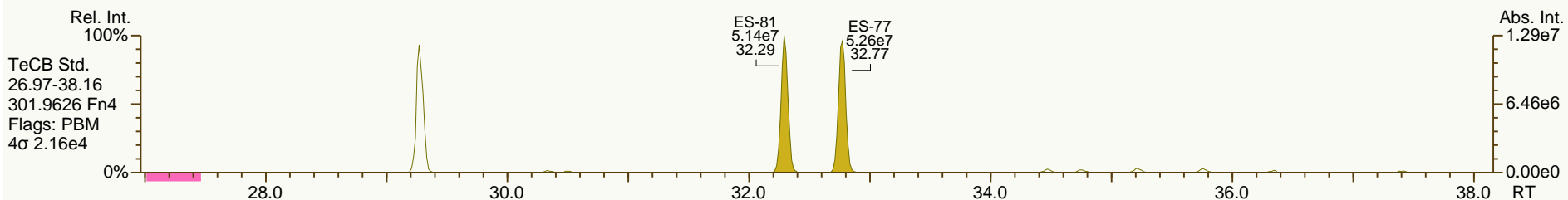
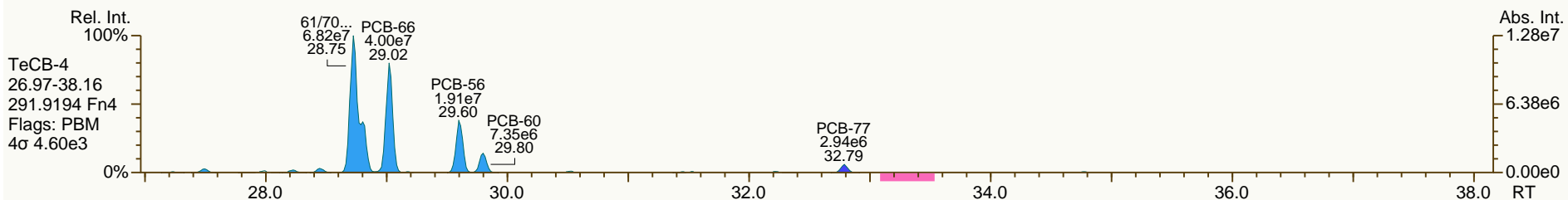
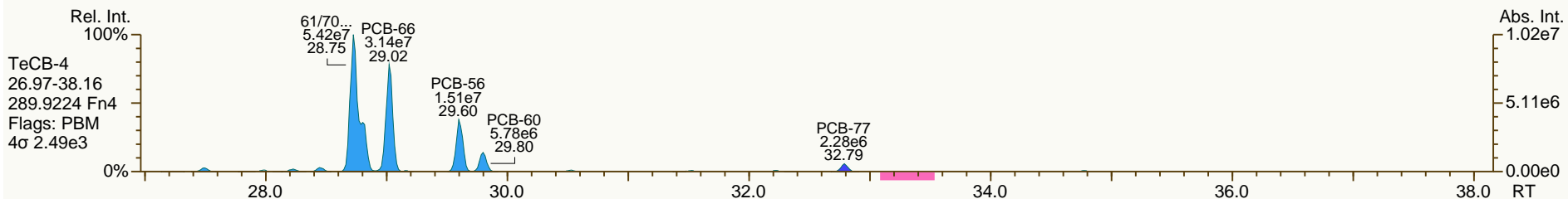
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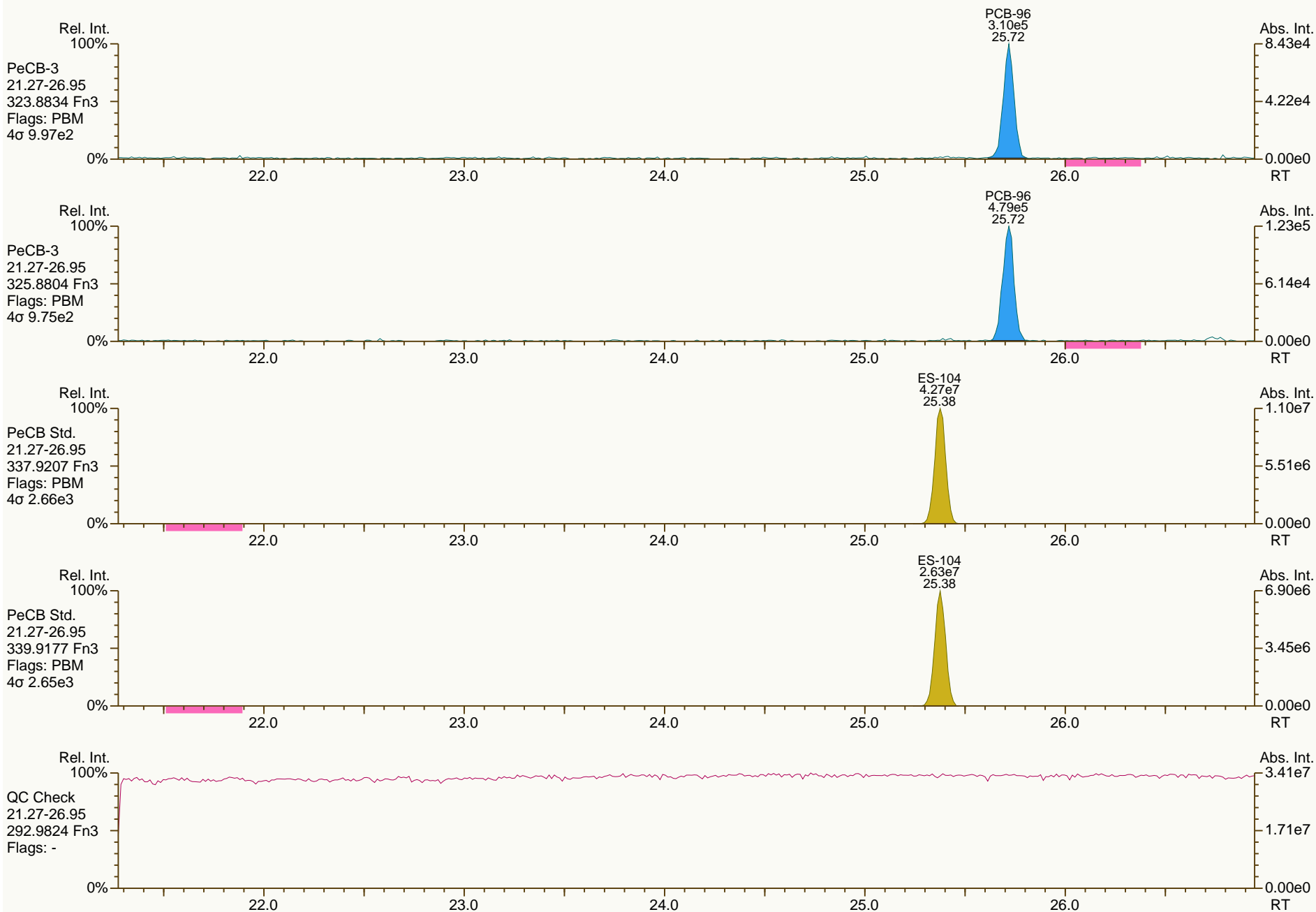




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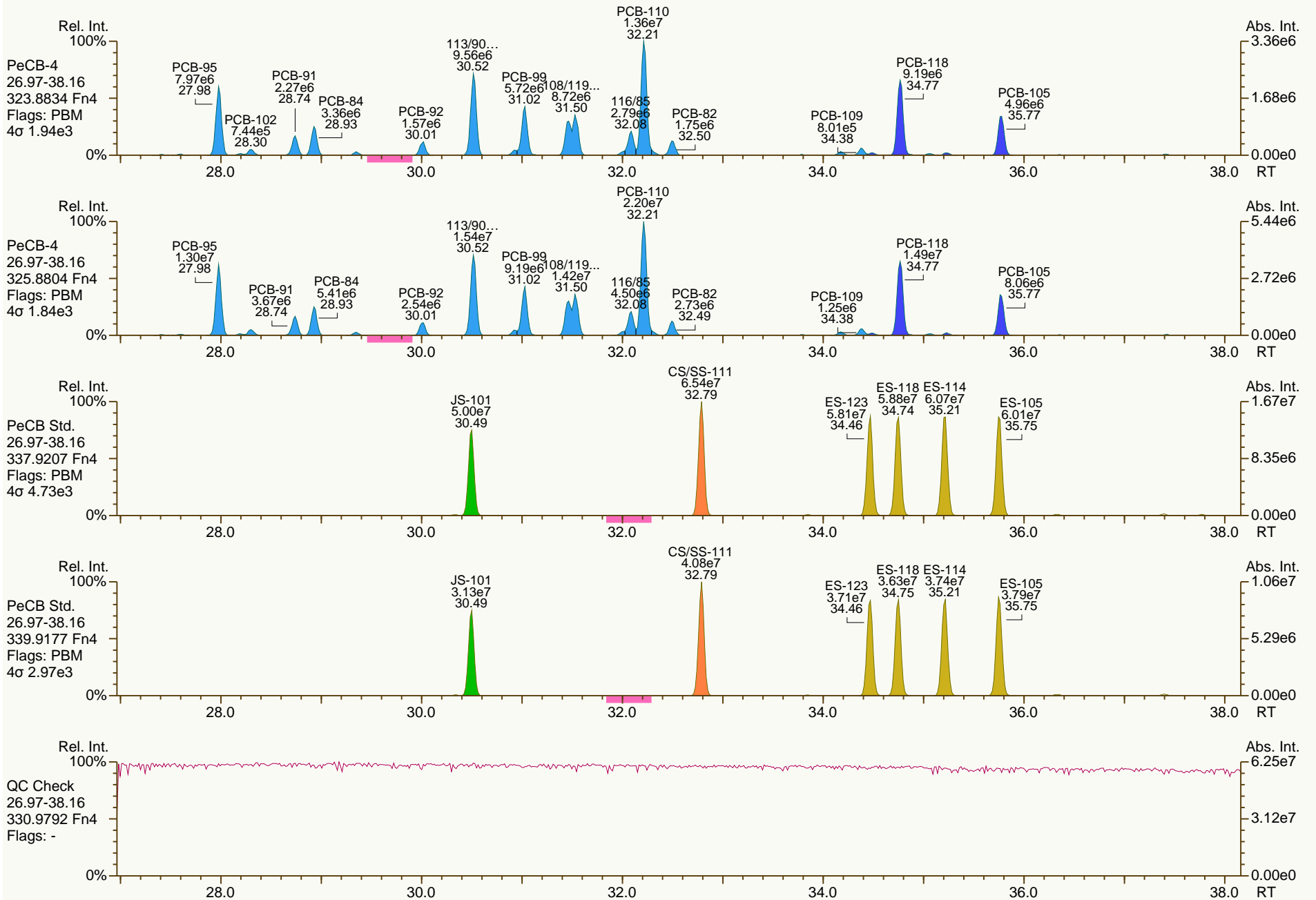
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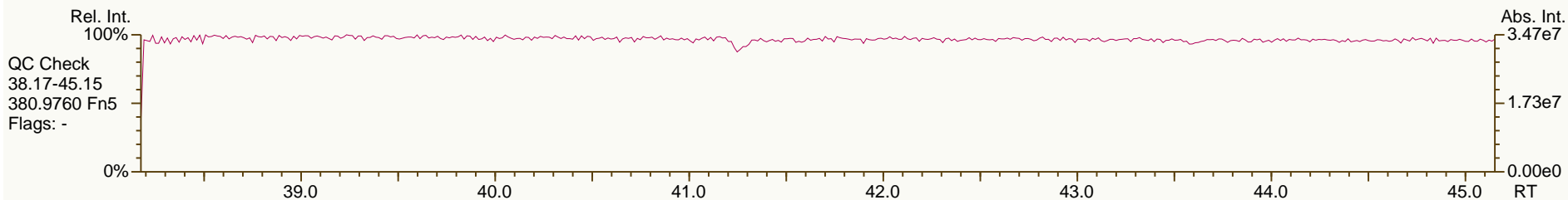
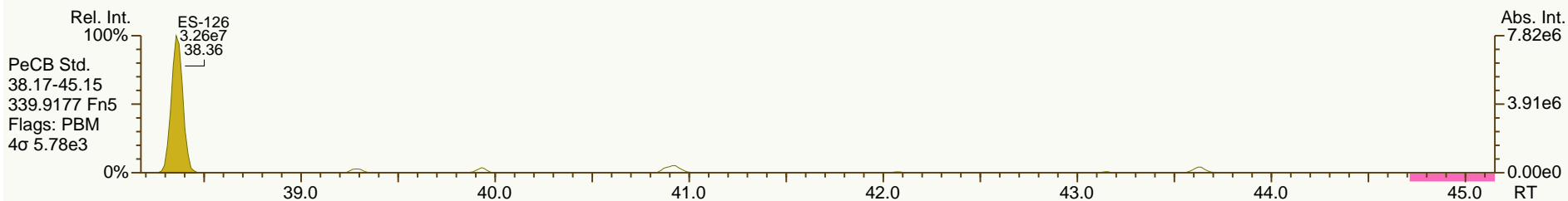
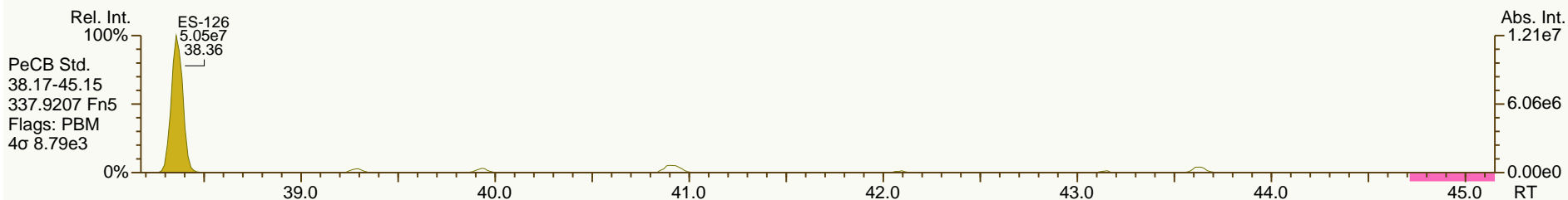
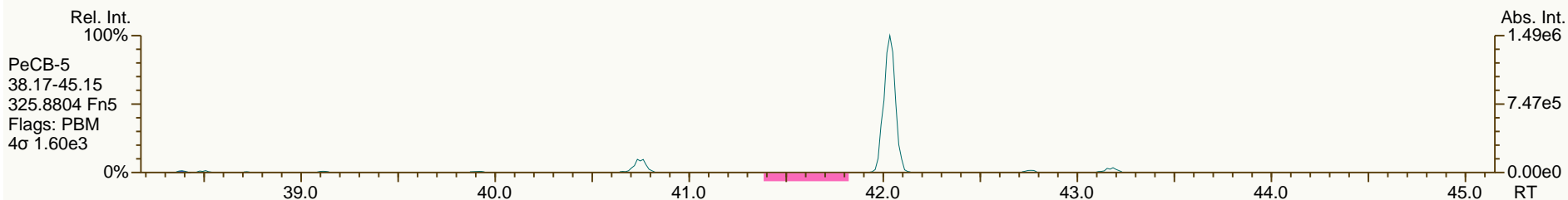
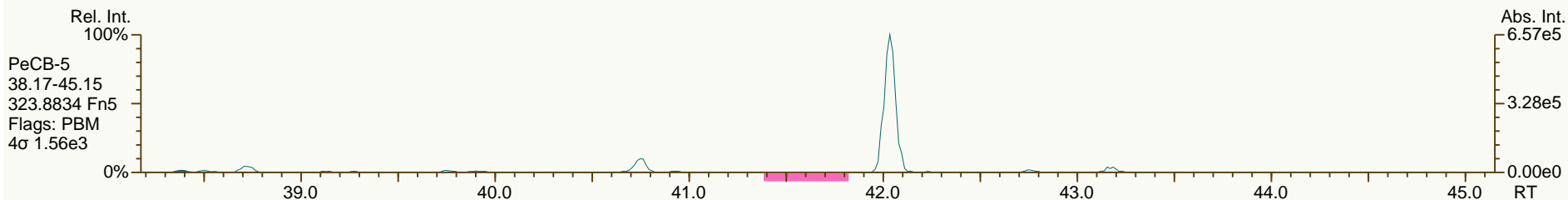
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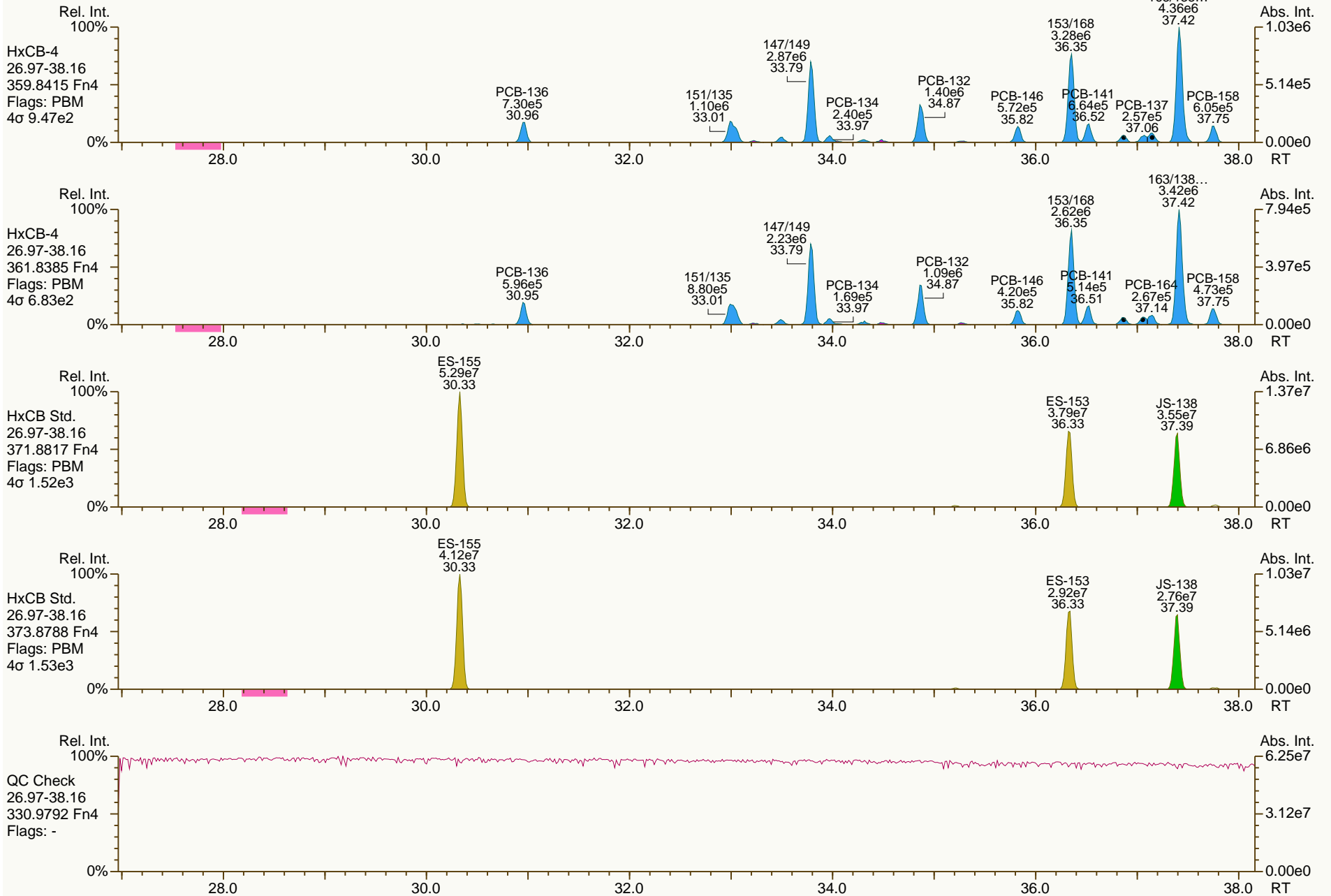
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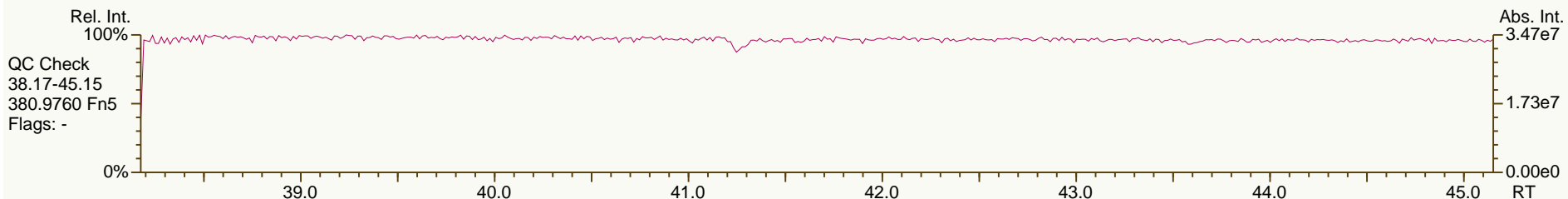
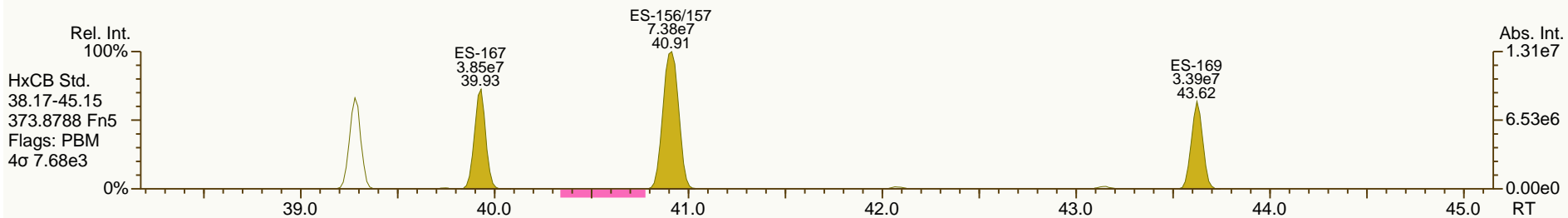
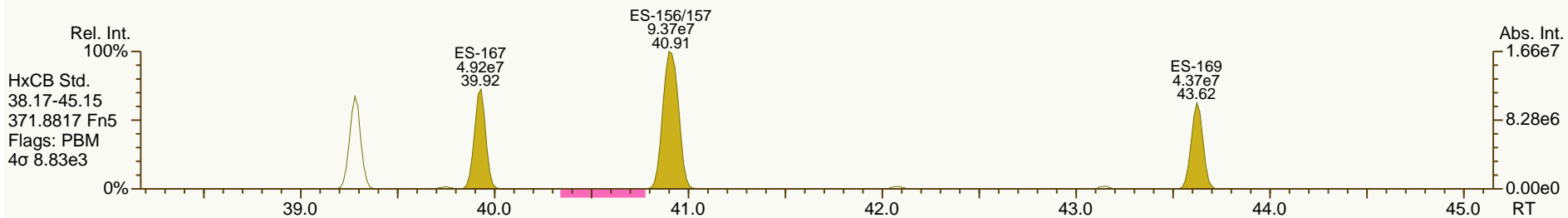
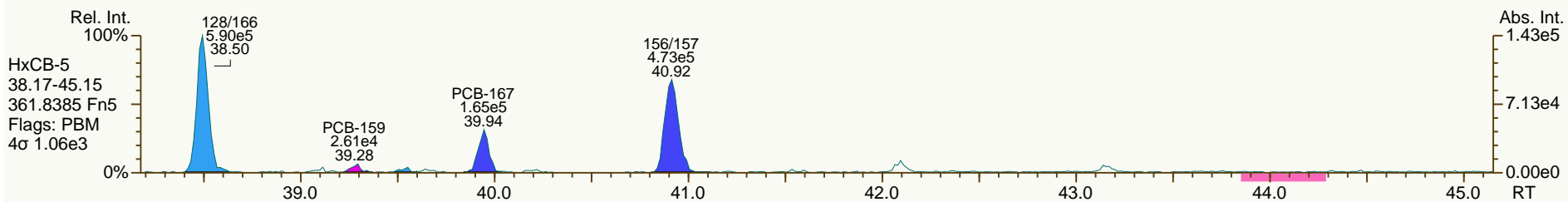
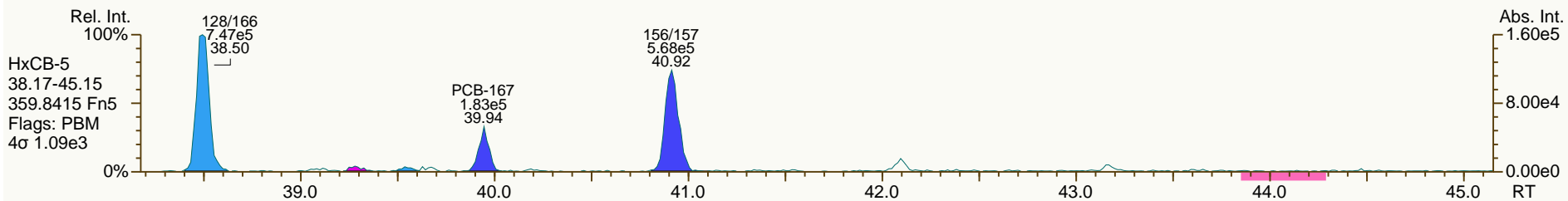
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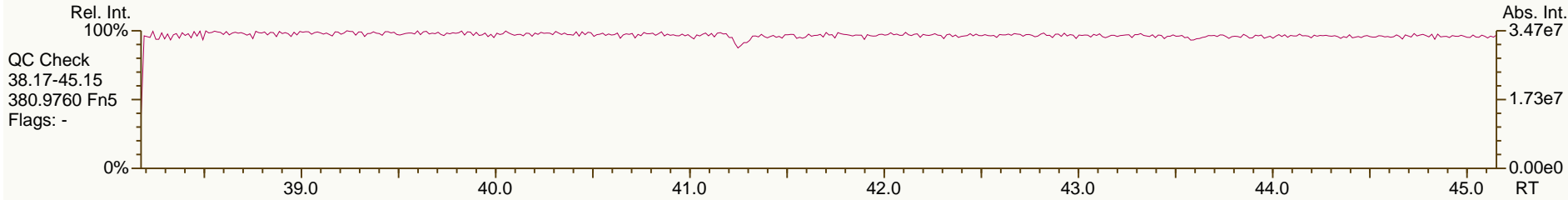
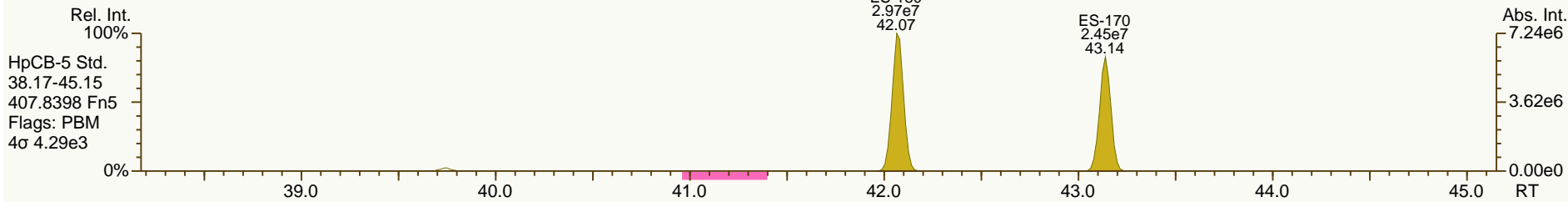
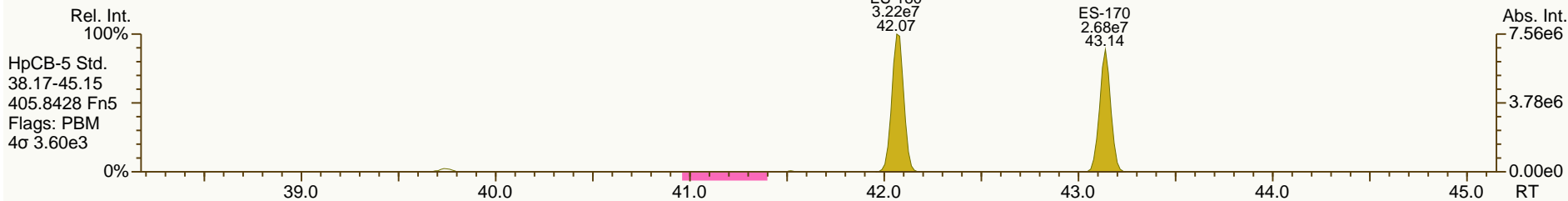
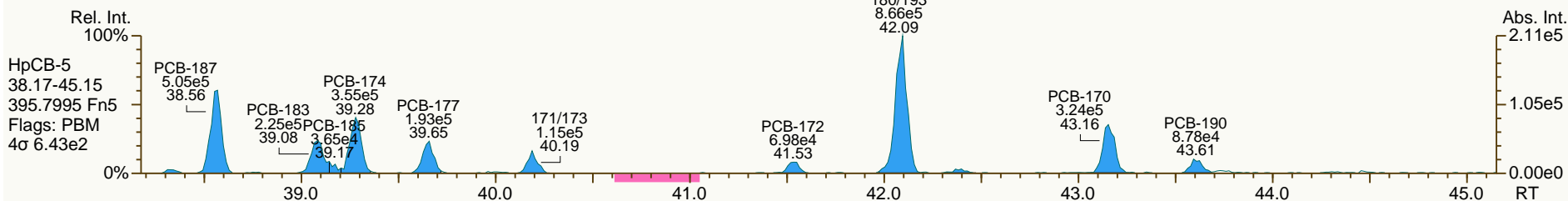
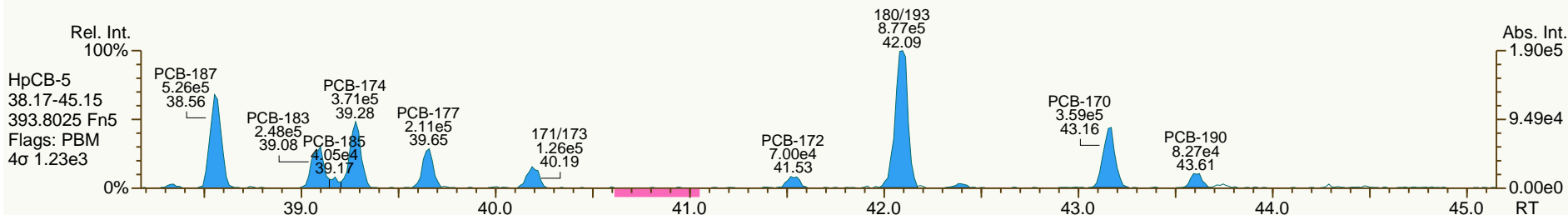
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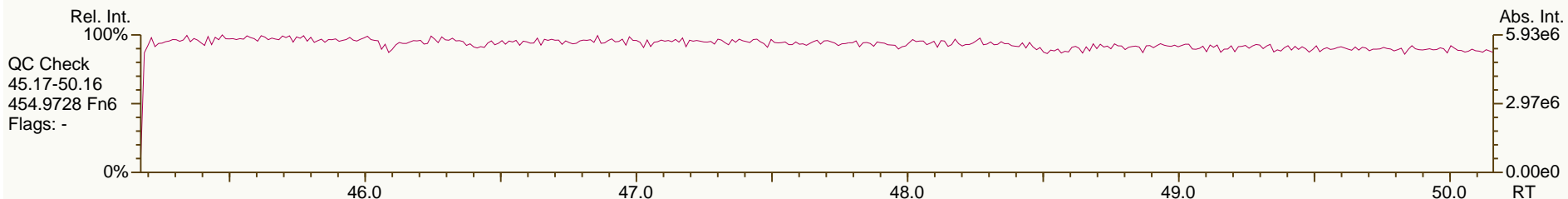
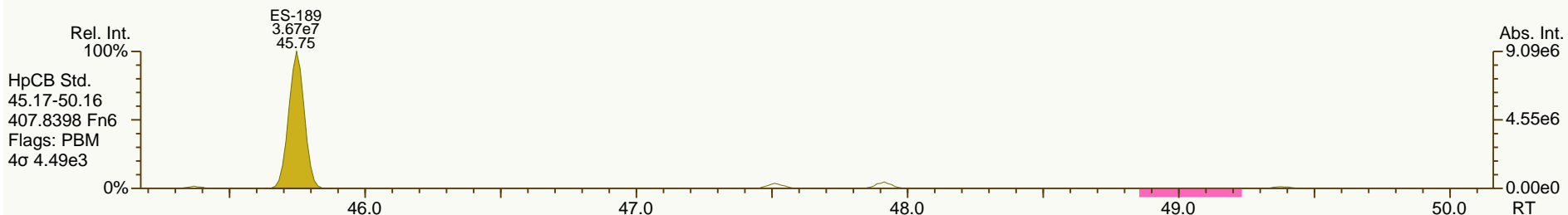
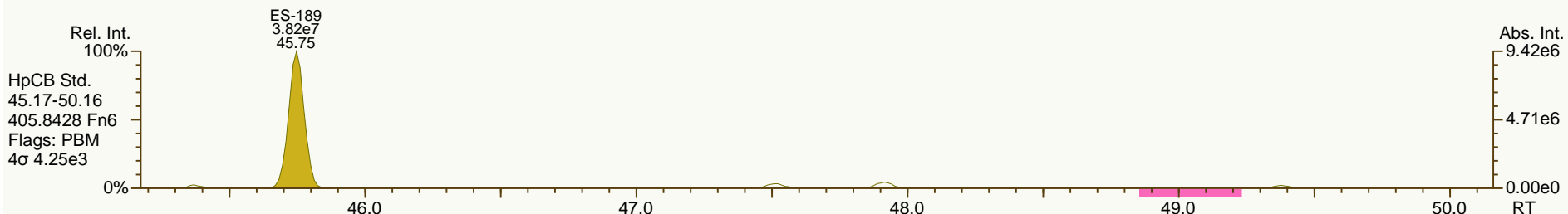
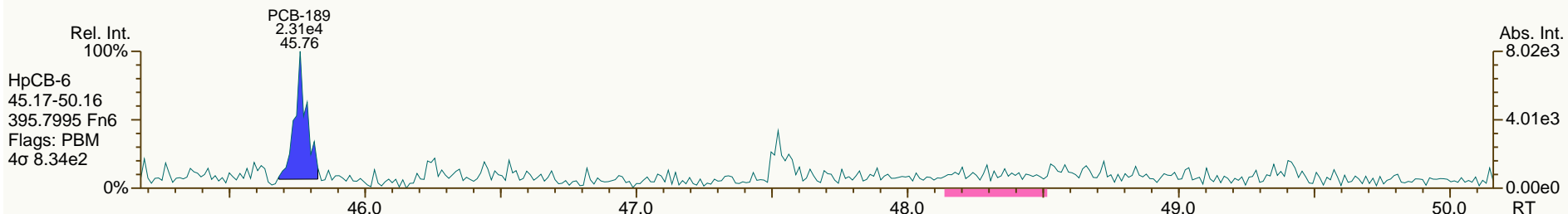
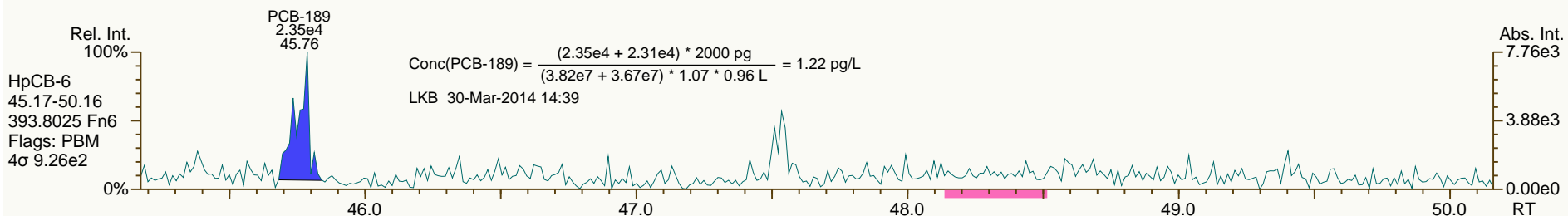
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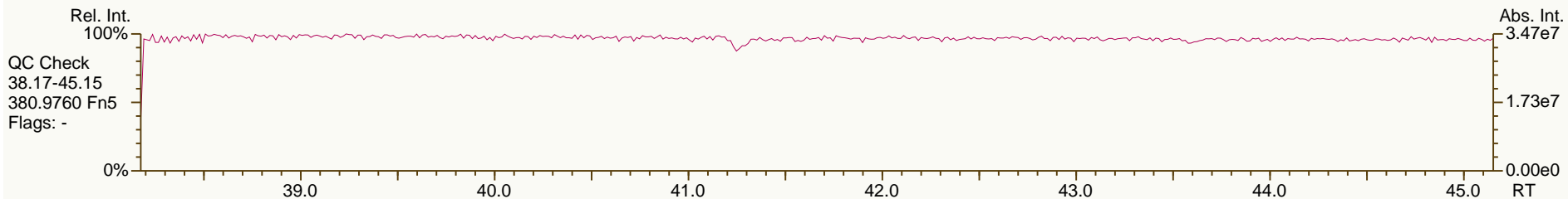
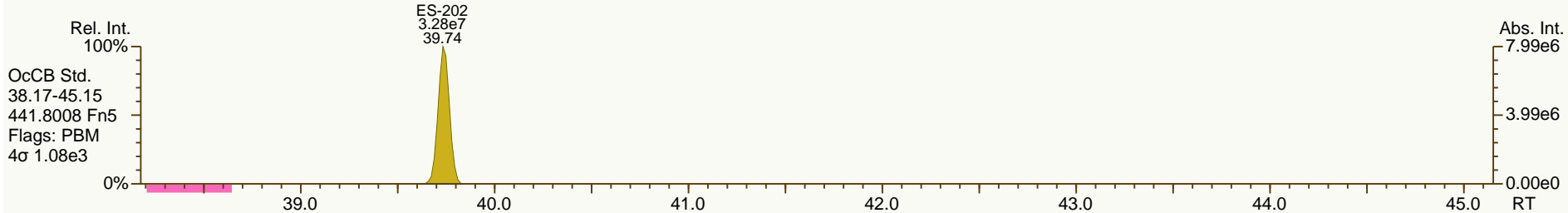
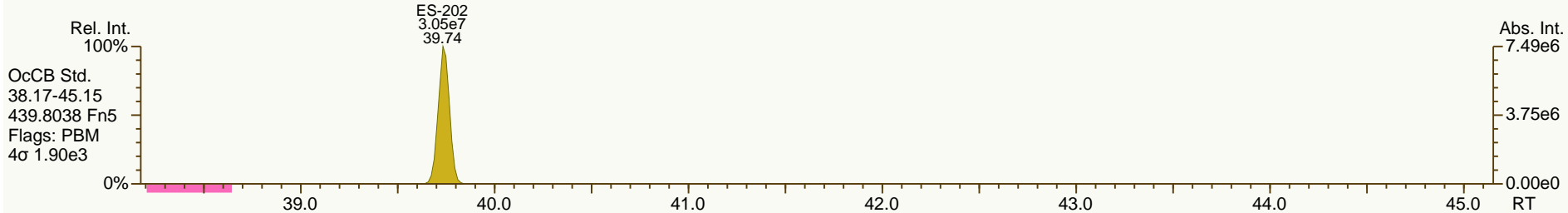
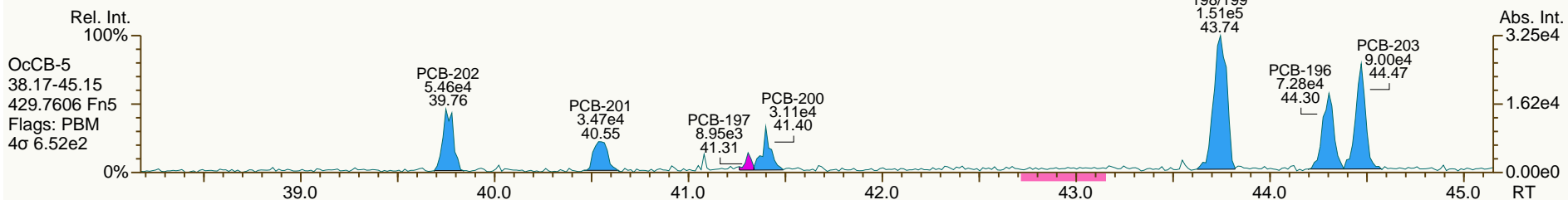
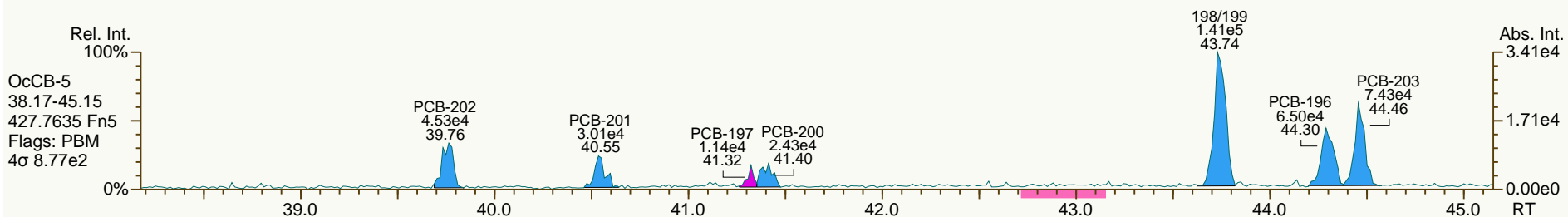




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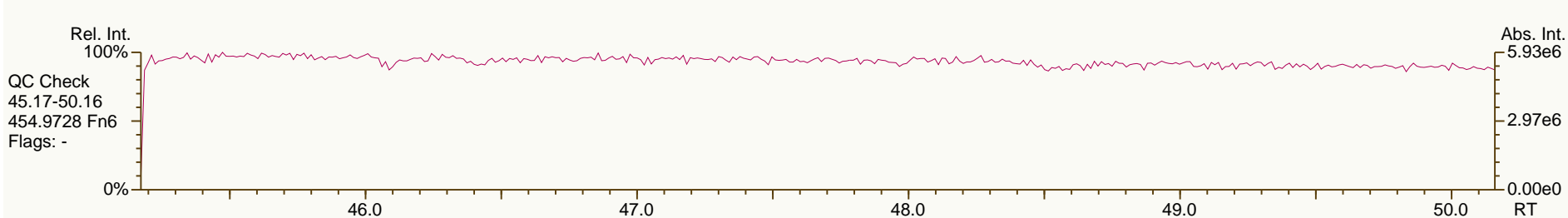
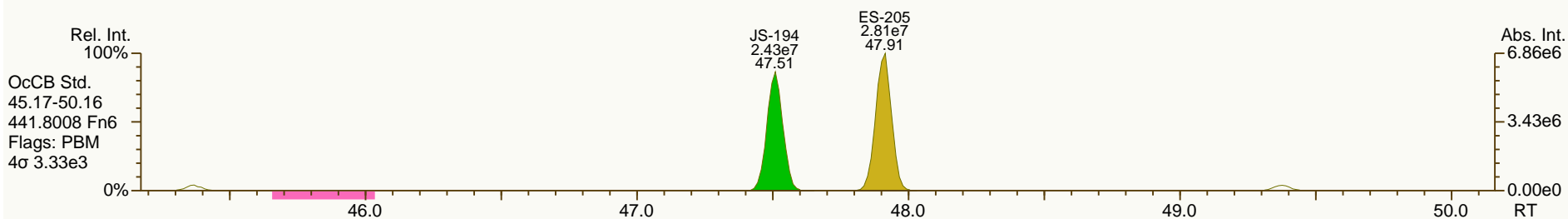
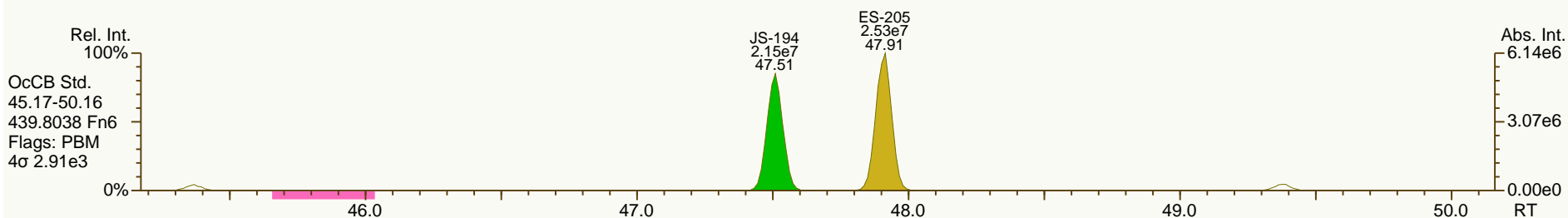
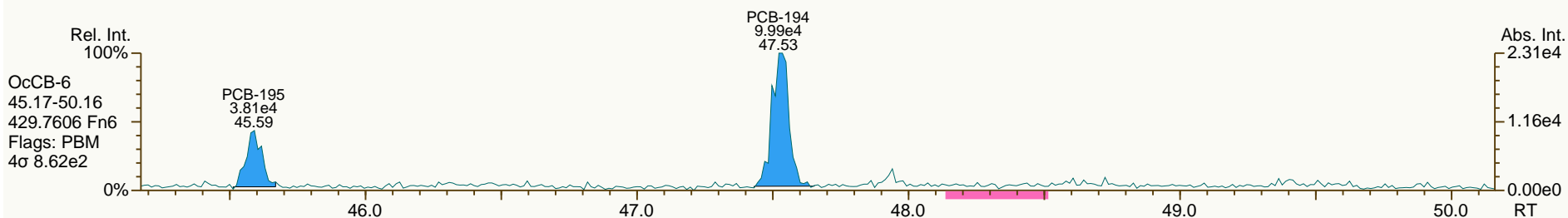
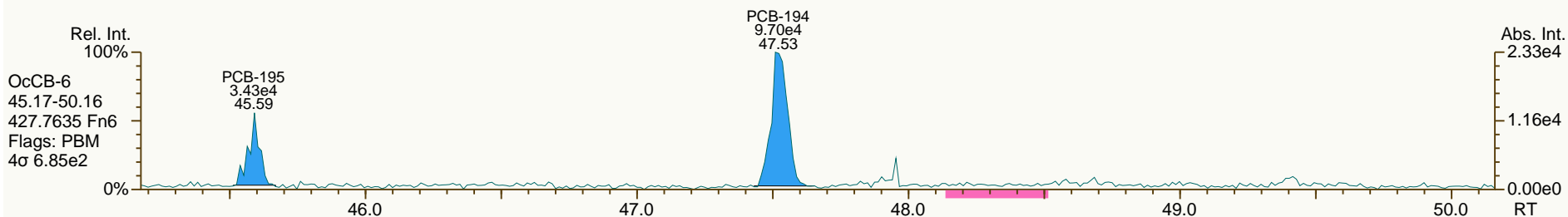
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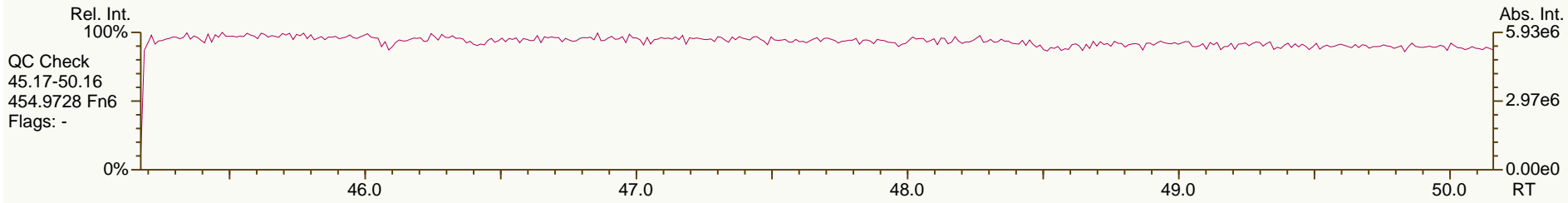
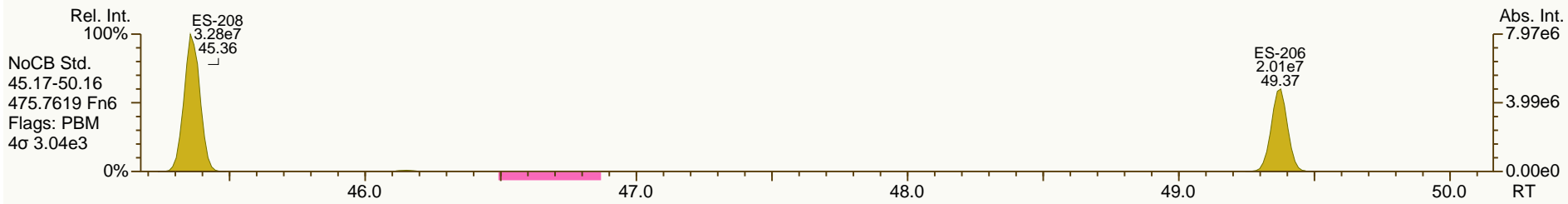
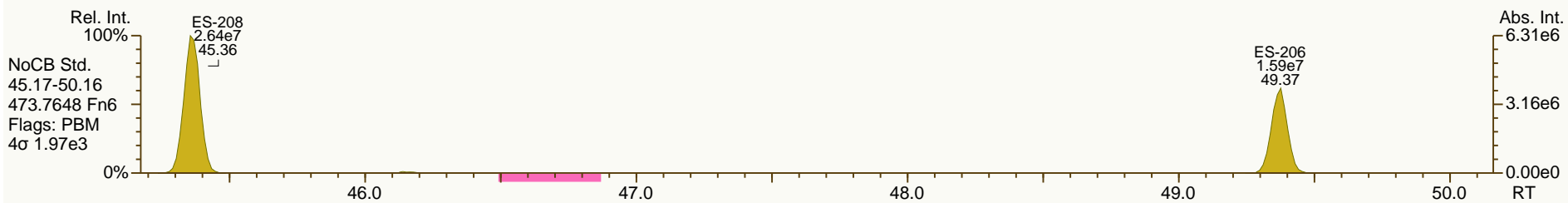
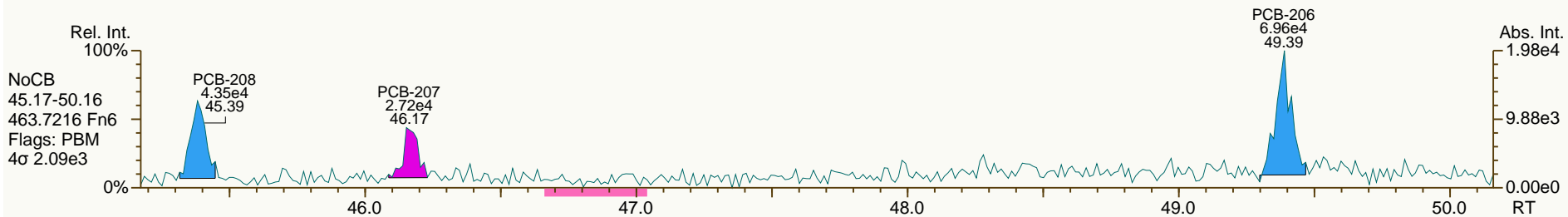
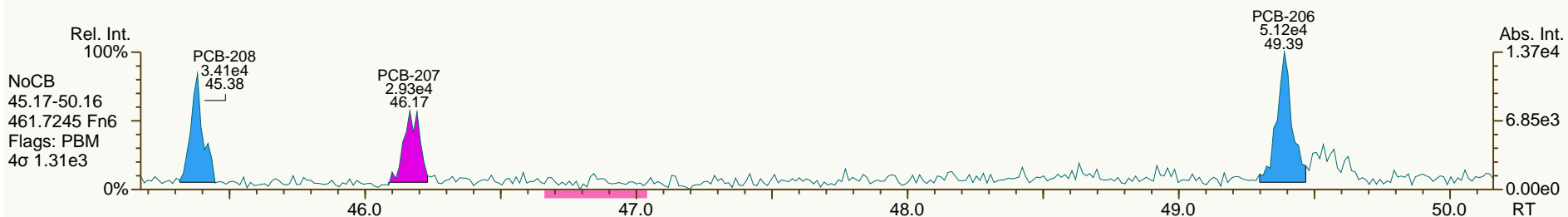
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 User: LKB Datafile: 140327X08



SGS-AP ID: A6506\_11899\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB081\_A-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 52

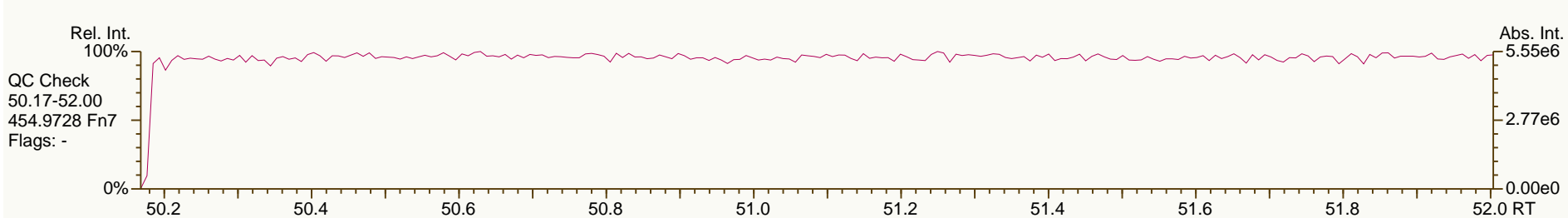
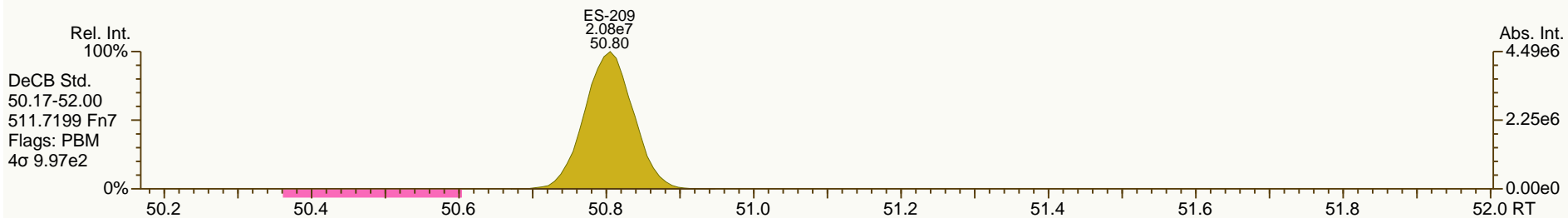
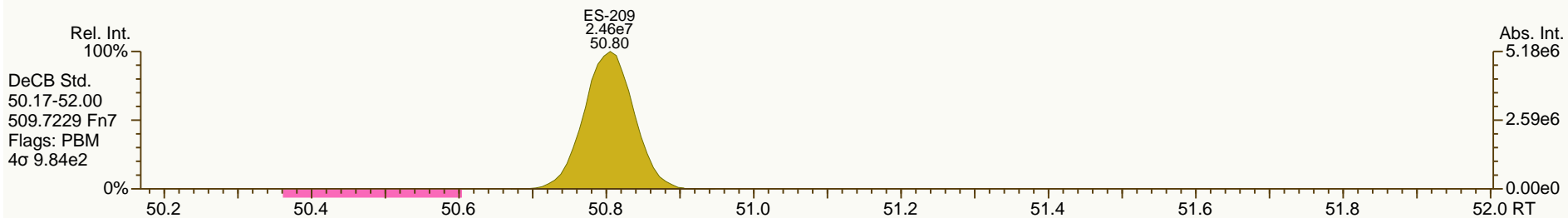
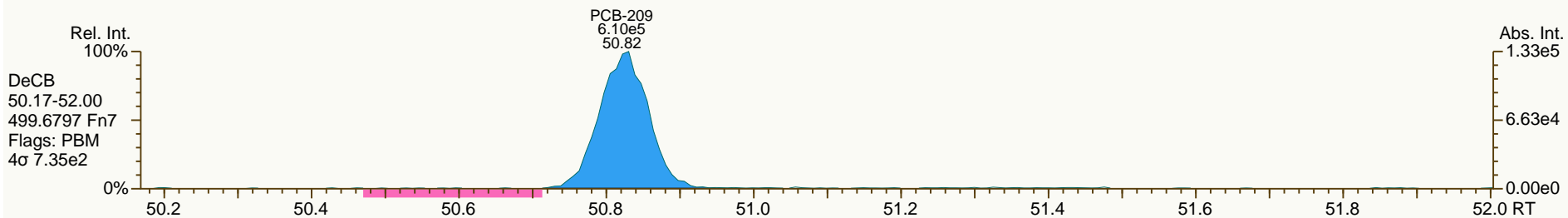
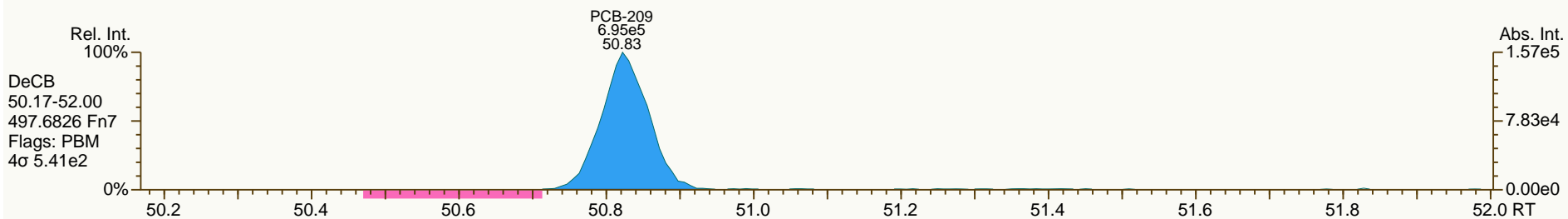
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 User: LKB Datafile: 140327X08



SGS-AP ID: A6506\_11899\_PCB\_004  
 Instr: AutoSpec-Premier MM7

Sample ID: PB081\_A-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 52

Acq: 27-Mar-2014 17:03:52  
 User: LKB Datafile: 140327X08



Lab ID: A6506\_11899\_PCB\_005

ACQ: 27-Mar-2014 17:59:02 LKB

Wt/Vol: 0.93 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA

Client ID: PB081\_A-1SWMID-140314-N (DISSOLVED)

UTP: 30-Mar-2014 13:53 LKB

J-level: 10.8 pg/L Split: 1

Checkcode: 223-376-PJM

Datafile: 140327X09

RPT: 30-Mar-2014 14:30 LB

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.78		1.0006	1.0006	0	4.74E+05	0.79	1.15	15.9	3.79E+03	1.31
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.79E+03	1.36
PCB-105 233'44'-PeCB	35.77		1.0006	1.0006	0	9.64E+05	0.63	1.11	40.1	2.90E+03	1.22
PCB-114 2344'5'-PeCB	35.23	J	1.0007	1.0006	-0.2	5.71E+04	0.60	1.20	2.22	2.90E+03	1.13
PCB-118 23'44'5'-PeCB	34.76		1.0006	1.0007	+0.2	1.83E+06	0.62	1.19	73.3	2.90E+03	1.2
PCB-123 23'44'5'-PeCB	34.48	J EMPC	1.0006	1.0007	+0.2	5.25E+04	0.72	1.21	2.05	2.90E+03	1.15
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.20E+03	1.2
PCB-156/157 ...-HxCB	40.91	J EMPC C	1.0005	1.0002	-0.7	6.21E+04	0.94	1.10	3.11	1.52E+03	1.08
PCB-167 23'44'55'-HxCB	39.93	J	1.0006	1.0004	-0.5	2.51E+04	1.40	1.16	1.11	1.52E+03	0.7
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.52E+03	0.884
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.53E+03	0.97
PCB-209 DeCB	50.82		1.0004	1.0004	0	1.03E+05	1.09	1.11	11.9	1.22E+03	1.71
ES PCB-1	11.87		0.7245	0.7245	0	3.51E+07	3.24	1.19	30.8 %	15%	150%
ES PCB-3	14.16		0.8640	0.8641	+0.1	4.26E+07	3.33	1.09	41 %	15%	150%
ES PCB-4	14.41		0.8795	0.8793	-0.2	2.23E+07	1.64	0.52	44.7 %	25%	150%
ES PCB-15	20.12		1.2271	1.2277	+0.7	6.47E+07	1.56	1.04	65.1 %	25%	150%
ES PCB-19	17.49		1.0673	1.0673	0	2.53E+07	1.07	0.51	52.3 %	25%	150%
ES PCB-37	26.44		1.0787	1.0790	+0.5	6.50E+07	1.10	1.66	75 %	25%	150%
ES PCB-54	20.40		0.8328	0.8326	-0.2	2.77E+07	0.80	0.86	61.6 %	25%	150%
ES PCB-77	32.77		1.3364	1.3371	+1.4	5.58E+07	0.79	1.38	77.4 %	25%	150%
ES PCB-81	32.29		1.3170	1.3176	+1.2	5.56E+07	0.80	1.37	78 %	25%	150%
ES PCB-104	25.37		0.8325	0.8322	-0.5	3.42E+07	1.61	0.80	92.5 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	4.64E+07	1.60	1.20	83.9 %	25%	150%
ES PCB-114	35.20		1.1543	1.1546	+0.6	4.60E+07	1.61	1.22	82.1 %	25%	150%
ES PCB-118	34.74		1.1391	1.1394	+0.6	4.51E+07	1.60	1.16	84.6 %	25%	150%
ES PCB-123	34.46		1.1299	1.1302	+0.6	4.54E+07	1.60	1.19	83.2 %	25%	150%
ES PCB-126	38.36		1.2575	1.2580	+1.2	3.96E+07	1.51	1.03	83.8 %	25%	150%
ES PCB-153	36.32		0.9716	0.9716	0	3.22E+07	1.31	1.11	82.4 %	25%	150%
ES PCB-155	30.32		0.8114	0.8111	-0.5	4.58E+07	1.28	1.59	83.1 %	25%	150%
ES PCB-156/157	40.90		1.0939	1.0941	+0.5	7.82E+07	1.26	1.60	70.4 %	25%	150%
ES PCB-167	39.92		1.0677	1.0678	+0.2	4.19E+07	1.25	1.67	72.3 %	25%	150%
ES PCB-169	43.62		1.1664	1.1667	+0.8	3.60E+07	1.29	1.56	66.6 %	25%	150%
ES PCB-170	43.13		0.9081	0.9079	-0.5	2.41E+07	1.07	0.95	80.3 %	25%	150%
ES PCB-180	42.06		0.8856	0.8855	-0.3	2.85E+07	1.06	1.14	78.7 %	25%	150%
ES PCB-188	35.20		0.7413	0.7410	-0.6	3.13E+07	1.08	0.94	96.1 %	25%	150%
ES PCB-189	45.74		0.9629	0.9629	0	3.38E+07	1.03	1.58	82.3 %	25%	150%
ES PCB-202	39.73		0.8366	0.8364	-0.5	3.05E+07	0.91	0.97	90.6 %	25%	150%
ES PCB-205	47.90		1.0084	1.0084	0	2.11E+07	0.89	1.24	65.5 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	1.41E+07	0.80	0.83	65.5 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	2.60E+07	0.79	1.17	85.3 %	25%	150%
ES PCB-209	50.80		1.0694	1.0694	0	1.67E+07	1.19	1.11	57.9 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	8.62E+07	1.08	1.11	119 %	30%	135%
SS PCB-111	32.78		1.0750	1.0751	+0.2	5.64E+07	1.58	1.03	121 %	30%	135%
SS PCB-178	37.76		1.0100	1.0100	0	2.40E+07	1.07	0.62	124 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	8.62E+07	1.08	1.85	89.5 %	30%	135%
CS PCB-111	32.78		1.0750	1.0751	+0.2	5.64E+07	1.58	1.22	100 %	30%	135%
CS PCB-178	37.76		1.0100	1.0100	0	2.40E+07	1.07	0.58	119 %	30%	135%
JS PCB-9	16.39					9.56E+07	1.57				
JS PCB-52	24.51					5.21E+07	0.81				
JS PCB-101	30.49					4.60E+07	1.59				
JS PCB-138	37.39					3.47E+07	1.28				
JS PCB-194	47.50					2.59E+07	0.91				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	44.3	44.3	2.5		
						Di-CBs	495	495	3.63		
						Tri-CBs	2,680	2,680	3.03		
						Tetra-CBs	3,230	3,230	1.32		
						Penta-CBs	802	816	1.11		
						Hexa-CBs	116	144	0.789		
						Hepta-CBs	12.6	28.1	1.14		
						Octa-CBs	0	2.9	1.04		
						Nona-CBs	0	0	3.23		
PCB-1 2-MoCB	11.89		1.0011	1.0011	0	6.03E+05	3.37	0.95	38.8	6.39E+03	2.61
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.20	ND	6.39E+03	2.02
PCB-3 4-MoCB	14.17	J	1.0010	1.0010	0	1.10E+05	2.73	1.01	5.52	6.39E+03	2.4
PCB-4 22'-DiCB	14.43		1.0011	1.0011	0	2.73E+06	1.56	1.23	213	7.79E+03	4.36
PCB-10 26'-DiCB	14.61	J	1.0135	1.0137	+0.2	1.76E+05	SI	1.90	8.88	7.79E+03	2.82
PCB-9 25'-DiCB	16.40	J	1.0010	1.0010	0	2.52E+05	SI	1.01	8.3	9.71E+03	2.93
PCB-7 24'-DiCB	16.57	J	1.0111	1.0112	+0.1	1.36E+05	SI	1.14	3.97	9.71E+03	2.6
PCB-6 23'-DiCB	16.80		1.0249	1.0249	0	2.00E+06	1.58	1.06	62.3	9.71E+03	2.78
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.07	ND	9.71E+03	2.76
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	3.08E+06	1.61	1.10	93	9.71E+03	2.69
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	9.71E+03	2.32
PCB-11 33'-DiCB	19.56	B	0.9721	0.9721	0	1.14E+06	1.36	1.10	34.5	9.71E+03	2.69
PCB-13/12 34'/34'-DiCB	19.83	J C	0.9866	0.9855	-1.3	6.07E+05	SI	1.10	18.4	9.71E+03	2.7
PCB-15 44'-DiCB	20.13		1.0008	1.0006	-0.2	1.62E+06	1.60	1.02	52.9	9.71E+03	2.9
PCB-19 22'6-TrCB	17.51		1.0010	1.0011	+0.1	1.57E+06	1.06	1.15	116	6.58E+03	3.99
PCB-30/18 246/22'5-TrCB	19.28	C	1.1014	1.1020	+0.7	1.24E+07	1.03	1.54	689	6.58E+03	2.98
PCB-17 22'4-TrCB	19.67		1.1243	1.1246	+0.4	3.73E+06	1.08	1.32	240	6.58E+03	3.45
PCB-27 23'6-TrCB	19.86		1.1353	1.1355	+0.2	9.91E+05	1.10	1.80	46.8	6.58E+03	2.54
PCB-24 236-TrCB	19.99	J EMPC	1.1430	1.1426	-0.5	1.01E+05	1.31	1.71	5.04	6.58E+03	2.68
PCB-16 22'3-TrCB	20.09		1.1484	1.1488	+0.5	2.96E+06	1.06	1.01	249	6.58E+03	4.52
PCB-32 24'6-TrCB	20.57		1.1758	1.1763	+0.6	5.38E+06	1.04	1.90	240	6.58E+03	2.4

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.28	ND	6.95E+03	1.76
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	6.95E+03	1.76
PCB-26/29 23'5/245-TrCB	22.13	C	0.8383	0.8370	-1.7	2.91E+06	1.03	1.29	74.8	6.95E+03	1.74
PCB-25 23'4-TrCB	22.35		0.8456	0.8454	-0.3	2.39E+06	1.01	1.28	61.6	6.95E+03	1.75
PCB-31 24'5-TrCB	22.63		0.8562	0.8560	-0.3	1.45E+07	1.02	1.34	356	6.95E+03	1.67
PCB-28/20 244'/233'-TrCB	22.91	C	0.8670	0.8663	-1.0	1.38E+07	1.00	1.25	364	6.95E+03	1.79
PCB-21/33 234/23'4'-TrCB	23.12	C	0.8738	0.8744	+0.8	3.47E+06	1.02	1.29	89.3	6.95E+03	1.75
PCB-22 234'-TrCB	23.47		0.8880	0.8878	-0.3	3.63E+06	1.03	1.20	99.8	6.95E+03	1.87
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	6.95E+03	1.7
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	6.95E+03	1.65
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.21	ND	6.95E+03	1.85
PCB-35 33'4-TrCB	26.10	J	0.9871	0.9870	-0.2	1.26E+05	1.04	1.16	3.6	6.95E+03	1.94
PCB-37 344'-TrCB	26.46		1.0007	1.0008	+0.2	1.54E+06	1.00	1.08	47.2	6.95E+03	2.08
PCB-54 22'66'-TeCB	20.42	J EMPC	1.0010	1.0008	-0.2	5.60E+04	0.96	1.35	3.22	2.59E+03	1.33
PCB-50/53 22'46/22'56'-TeCB	22.38	C	0.9145	0.9134	-1.5	2.75E+06	0.80	0.92	115	2.95E+03	1.28
PCB-45 22'36-TeCB	23.00		0.9383	0.9384	+0.1	2.25E+06	0.79	0.80	109	2.95E+03	1.48
PCB-51 22'46'-TeCB	23.07		0.9413	0.9414	+0.1	1.15E+06	0.84	0.93	47.9	2.95E+03	1.28
PCB-46 22'36'-TeCB	23.28		0.9499	0.9498	-0.1	8.66E+05	0.79	0.73	45.7	2.95E+03	1.62
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	1.39E+07	0.80	0.89	599	2.95E+03	1.33
PCB-73 23'5'6-TeCB	24.65	J	1.0062	1.0060	-0.3	3.79E+04	0.87	1.18	1.24	2.95E+03	1
PCB-43 22'35-TeCB	24.76		1.0101	1.0102	+0.1	3.73E+05	0.82	0.77	18.7	2.95E+03	1.54
PCB-69/49 23'46/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	7.84E+06	0.79	1.10	276	2.95E+03	1.08
PCB-48 22'45-TeCB	25.23		1.0295	1.0296	+0.2	1.99E+06	0.79	0.91	84.9	2.95E+03	1.31
PCB-44/47/65 ...-TeCB	25.42	C	1.0384	1.0373	-1.7	1.21E+07	0.79	0.96	487	2.95E+03	1.23
PCB-59/62/75 ...-TeCB	25.71	C	1.0496	1.0493	-0.5	1.12E+06	0.83	1.25	34.8	2.95E+03	0.95
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	2.45E+06	0.81	0.83	114	2.95E+03	1.43
PCB-41 22'34-TeCB	26.22		1.0698	1.0698	0	6.08E+05	0.77	0.73	32.2	2.95E+03	1.62
PCB-71/40 23'4'6/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	5.09E+06	0.78	0.93	212	2.95E+03	1.27
PCB-64 234'6-TeCB	26.52		1.0819	1.0820	+0.2	5.70E+06	0.80	1.32	167	2.95E+03	0.899
PCB-72 23'55'-TeCB	NotFnd		0.8436	-		0.00E+00		1.29	ND	3.79E+03	1.18
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	1.12E+06	0.75	1.37	31.6	3.79E+03	1.11
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.23	ND	3.79E+03	1.24
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.26	ND	3.79E+03	1.21
PCB-67 23'45-TeCB	28.22	J	0.8741	0.8739	-0.3	1.93E+05	0.74	1.31	5.69	3.79E+03	1.17
PCB-63 234'5-TeCB	28.44	J	0.8811	0.8809	-0.3	2.95E+05	0.83	1.36	8.38	3.79E+03	1.12
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8902	0	1.31E+07	0.78	1.24	408	3.79E+03	1.22
PCB-66 23'44'-TeCB	29.02		0.8989	0.8987	-0.3	7.39E+06	0.79	1.17	245	3.79E+03	1.31
PCB-55 233'4-TeCB	29.16	J	0.9034	0.9031	-0.5	6.64E+04	0.88	1.17	2.19	3.79E+03	1.3
PCB-56 233'4'-TeCB	29.60		0.9169	0.9167	-0.4	3.61E+06	0.79	1.16	120	3.79E+03	1.31
PCB-60 2344'-TeCB	29.80		0.9229	0.9227	-0.4	1.52E+06	0.78	1.18	50.1	3.79E+03	1.3
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	3.79E+03	1.11
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.38	ND	3.79E+03	1.1
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	3.79E+03	1.37
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.87E+03	0.743
PCB-96 22'366'-PeCB	25.72	J EMPC	1.0134	1.0135	+0.2	8.01E+04	0.80	1.20	4.21	1.87E+03	0.89
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	2.90E+03	1.48
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.79	ND	2.90E+03	1.76
PCB-95 22'35'6-PeCB	27.97		0.9176	0.9175	-0.2	2.16E+06	0.60	0.86	118	2.90E+03	1.62

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.88	ND	2.90E+03	1.6
PCB-102 22'456'-PeCB	28.30	J	0.9282	0.9282	0	1.75E+05	0.58	1.04	7.94	2.90E+03	1.34
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.73	ND	2.90E+03	1.92
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	2.90E+03	1.76
PCB-91 22'34'6'-PeCB	28.73		0.9424	0.9424	0	5.15E+05	0.54	0.91	26.6	2.90E+03	1.53
PCB-84 22'33'6'-PeCB	28.93		0.9487	0.9487	0	8.15E+05	0.62	0.72	53.4	2.90E+03	1.93
PCB-89 22'346'-PeCB	29.34	J	0.9624	0.9624	0	8.33E+04	0.66	0.76	5.16	2.90E+03	1.83
PCB-121 23'45'6'-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.90E+03	1.15
PCB-92 22'355'-PeCB	30.00		0.9841	0.9840	-0.2	3.76E+05	0.59	0.83	21.6	2.90E+03	1.69
PCB-113/90/101 ...-PeCB	30.51	C	0.9999	1.0007	+1.5	2.19E+06	0.62	0.98	106	2.90E+03	1.42
PCB-83 22'33'5'-PeCB	30.92	J	1.0142	1.0140	-0.4	1.23E+05	0.68	0.71	8.18	2.90E+03	1.95
PCB-99 22'44'5'-PeCB	31.02		1.0173	1.0174	+0.2	1.24E+06	0.63	0.91	64.6	2.90E+03	1.54
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	2.90E+03	1.19
PCB-108/119/86/97/125...-PeCB	31.49	C	1.0320	1.0329	+1.7	1.90E+06	0.62	1.00	90.3	2.90E+03	1.4
PCB-117 234'56-PeCB	32.00	J EMPC	1.0495	1.0495	0	7.48E+04	0.76	1.05	3.37	2.90E+03	1.33
PCB-116/85 23456/22'344'-PeCB	32.08	C	1.0525	1.0521	-0.8	5.57E+05	0.60	0.98	26.8	2.90E+03	1.42
PCB-110 233'4'6'-PeCB	32.21		1.0561	1.0563	+0.4	3.00E+06	0.61	1.12	127	2.90E+03	1.25
PCB-115 2344'6-PeCB	32.29	J	1.0590	1.0592	+0.4	9.40E+04	0.71	1.15	3.88	2.90E+03	1.22
PCB-82 22'33'4'-PeCB	32.49		1.0655	1.0657	+0.4	3.33E+05	0.64	0.69	22.7	2.90E+03	2.02
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	2.90E+03	1.16
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	2.90E+03	1.14
PCB-107/124 ...-PeCB	34.17	J C	0.9916	0.9917	+0.2	8.91E+04	0.54	1.10	3.85	2.90E+03	1.27
PCB-109 233'46-PeCB	34.38	J EMPC	0.9976	0.9978	+0.4	1.21E+05	0.49	1.24	4.6	2.90E+03	1.13
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		1.08	ND	2.90E+03	1.3
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.00	ND	2.90E+03	1.35
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	2.90E+03	1.25
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.34E+03	0.489
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.11	ND	1.34E+03	0.557
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.34E+03	0.549
PCB-136 22'33'66'-HxCB	30.96	J B	1.0207	1.0209	+0.4	1.21E+05	1.15	1.03	5.52	1.34E+03	0.6
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.34E+03	0.587
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.34E+03	0.804
PCB-151/135 ...-HxCB	33.01	J C	1.0886	1.0885	-0.2	1.70E+05	1.17	1.06	10.6	1.34E+03	0.848
PCB-154 22'44'56'-HxCB	NotFnd		1.0954	-		0.00E+00		1.25	ND	1.34E+03	0.724
PCB-144 22'345'6-HxCB	33.49	J EMPC	1.1041	1.1044	+0.6	3.12E+04	1.46	1.10	1.89	1.34E+03	0.819
PCB-147/149 ...-HxCB	33.79	J B EMPC C	1.1141	1.1142	+0.2	3.54E+05	1.55	1.11	21.4	1.34E+03	0.817
PCB-134 22'33'56-HxCB	33.97	J EMPC	1.1199	1.1202	+0.6	2.81E+04	0.78	0.79	2.38	1.34E+03	1.15
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.10	ND	1.34E+03	0.818
PCB-139/140 ...-HxCB	NotFnd	C	1.1312	-		0.00E+00		1.11	ND	1.34E+03	0.813
PCB-131 22'33'46-HxCB	NotFnd		1.1369	-		0.00E+00		0.94	ND	1.34E+03	0.961
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.34E+03	0.975
PCB-132 22'33'46'-HxCB	34.86	B	1.1494	1.1498	+0.8	1.79E+05	1.26	0.97	12.3	1.34E+03	0.931
PCB-133 22'33'55'-HxCB	NotFnd		1.1626	-		0.00E+00		1.04	ND	1.34E+03	0.865
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.34E+03	0.69
PCB-146 22'34'55'-HxCB	35.82	J	0.9582	0.9581	-0.2	9.02E+04	1.30	1.14	5.28	1.34E+03	0.793
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.34E+03	0.637
PCB-153/168 ...-HxCB	36.34	B C	0.9728	0.9721	-1.5	4.96E+05	1.36	1.39	23.8	1.34E+03	0.651
PCB-141 22'3455'-HxCB	36.51	J	0.9766	0.9766	0	9.81E+04	1.15	1.03	6.33	1.34E+03	0.873

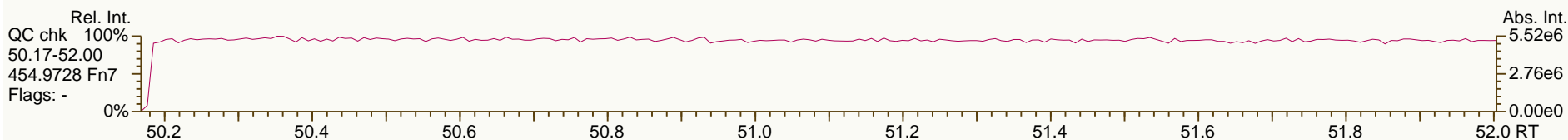
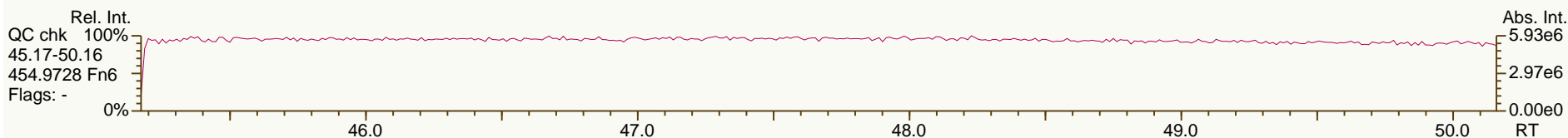
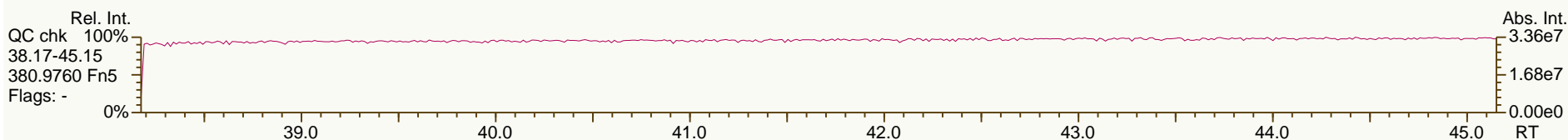
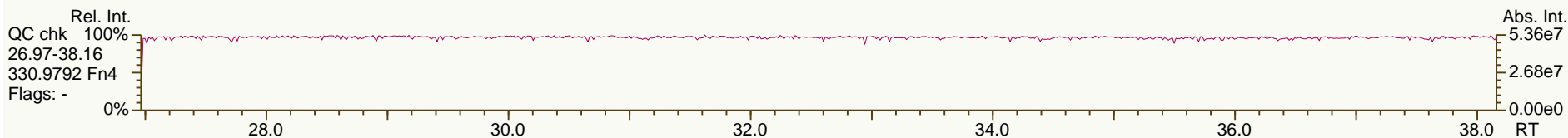
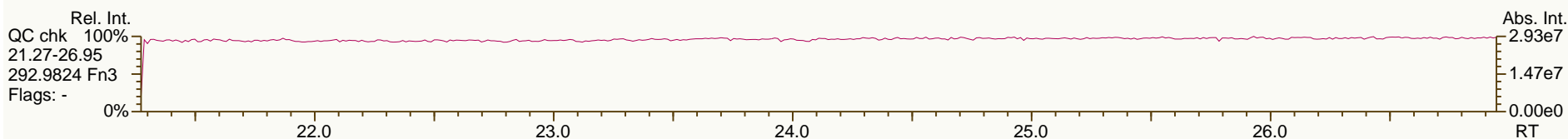
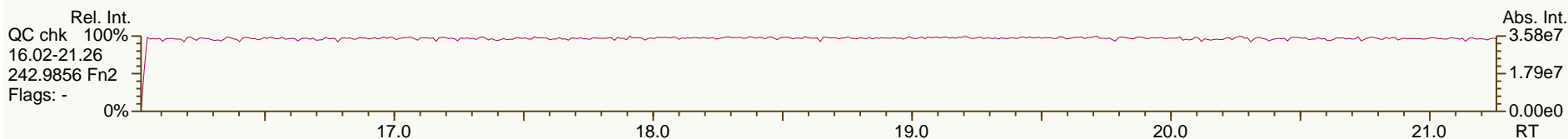
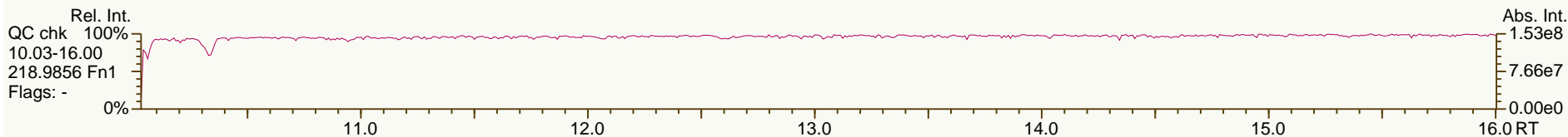


Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.86	J	0.9859	0.9858	-0.2	4.07E+04	1.17	0.92	2.96	1.34E+03	0.983
PCB-137 22'344'5'-HxCB	37.05	J	0.9911	0.9911	0	3.75E+04	1.06	1.14	2.2	1.34E+03	0.796
PCB-164 233'4'5'6'-HxCB	37.14	J	0.9933	0.9934	+0.2	4.47E+04	1.07	1.38	2.16	1.34E+03	0.654
PCB-163/138/129 ...-HxCB	37.41	C	1.0011	1.0007	-0.9	5.65E+05	1.29	1.11	33.9	1.34E+03	0.813
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.34E+03	0.693
PCB-158 233'44'6'-HxCB	37.74	J	1.0096	1.0096	0	8.52E+04	1.14	1.50	3.8	1.34E+03	0.604
PCB-128/166 ...-HxCB	38.49	J C	0.9641	0.9641	0	9.82E+04	1.32	0.89	5.65	1.52E+03	0.911
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.07	ND	1.52E+03	0.759
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.52E+03	0.765
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.44E+03	0.768
PCB-179 22'33'566'-HpCB	35.50	J EMPC	1.0086	1.0086	0	3.20E+04	1.23	1.08	2.03	1.44E+03	0.901
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.44E+03	0.95
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.14	ND	1.44E+03	0.855
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.44E+03	0.912
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0733	-		0.00E+00		0.76	ND	1.44E+03	1.28
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.08	ND	1.92E+03	1.34
PCB-187 22'34'55'6'-HpCB	38.55	J EMPC	1.0952	1.0952	0	7.32E+04	1.29	1.15	4.8	1.92E+03	1.26
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.92E+03	1.22
PCB-183 22'344'5'6'-HpCB	39.09	J EMPC	1.1101	1.1105	+0.9	4.12E+04	1.60	1.22	2.54	1.92E+03	1.19
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.03	ND	1.92E+03	1.4
PCB-174 22'33'456'-HpCB	39.27	J	1.1156	1.1157	+0.2	5.98E+04	1.15	0.98	4.59	1.92E+03	1.47
PCB-177 22'33'45'6'-HpCB	39.64	J EMPC	1.1262	1.1262	0	2.96E+04	1.38	0.95	2.36	1.92E+03	1.53
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.92E+03	1.35
PCB-171/173 ...-HpCB	NotFnd	C	1.1413	-		0.00E+00		0.95	ND	1.92E+03	1.53
PCB-172 22'33'455'-HpCB	NotFnd		0.9080	-		0.00E+00		0.97	ND	1.92E+03	1.49
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.92E+03	1.15
PCB-180/193 ...-HpCB	42.08	J B C	0.9194	0.9200	+1.5	1.31E+05	0.99	1.24	7.97	1.92E+03	1.17
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.92E+03	1.07
PCB-170 22'33'44'5'-HpCB	43.15	J EMPC	0.9434	0.9435	+0.3	4.91E+04	1.44	1.14	3.85	1.92E+03	1.6
PCB-190 233'44'56'-HpCB	NotFnd		0.9533	-		0.00E+00		1.56	ND	1.92E+03	1.17
PCB-202 22'33'55'66'-OoCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.29E+03	0.887
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.13	ND	1.29E+03	0.823
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.29E+03	0.885
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.13	ND	1.29E+03	0.826
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.07	ND	1.29E+03	0.87
PCB-198/199 ...-OoCB	43.74	J EMPC C	1.1001	1.1009	+2.1	2.96E+04	1.05	0.72	2.9	1.29E+03	1.3
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1146	-		0.00E+00		0.76	ND	1.29E+03	1.22
PCB-203 22'344'55'6'-OoCB	NotFnd		1.1188	-		0.00E+00		0.77	ND	1.29E+03	1.21
PCB-195 22'33'44'56'-OoCB	NotFnd		0.9516	-		0.00E+00		0.80	ND	1.17E+03	1.58
PCB-194 22'33'44'55'-OoCB	NotFnd		0.9921	-		0.00E+00		0.85	ND	1.17E+03	1.47
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.17E+03	1.18
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.96E+03	2.16
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.13	ND	2.96E+03	2.14
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.96E+03	4.29

SGS-AP ID: A6506\_11899\_PCB\_005  
Instr: AutoSpec-Premier MM7

Sample ID: PB081\_A-1SWMID-140314-N (DISSOLVED)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 53

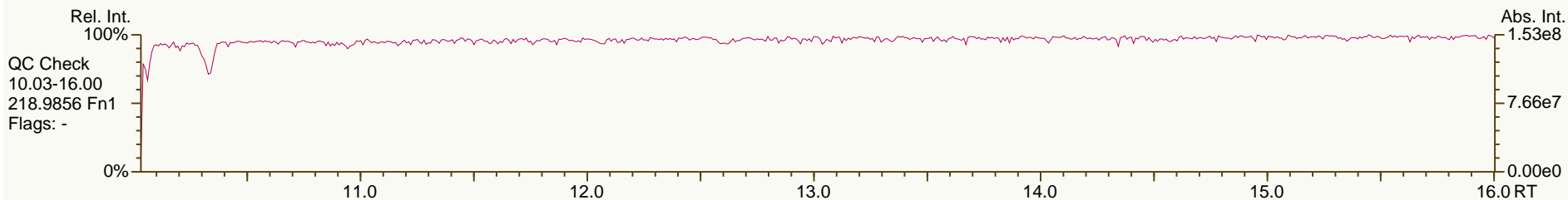
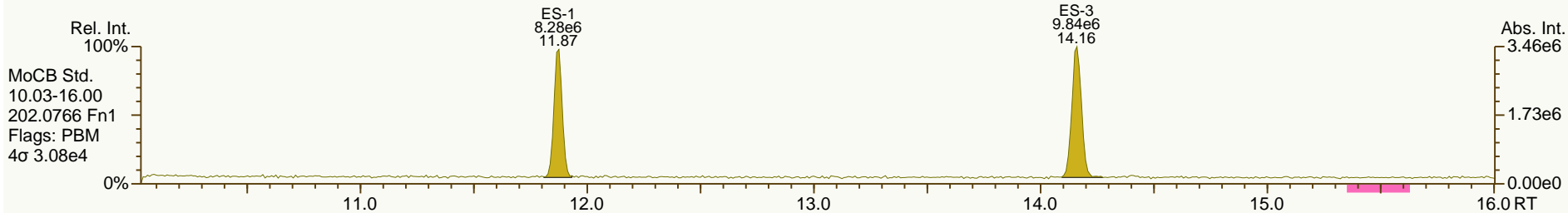
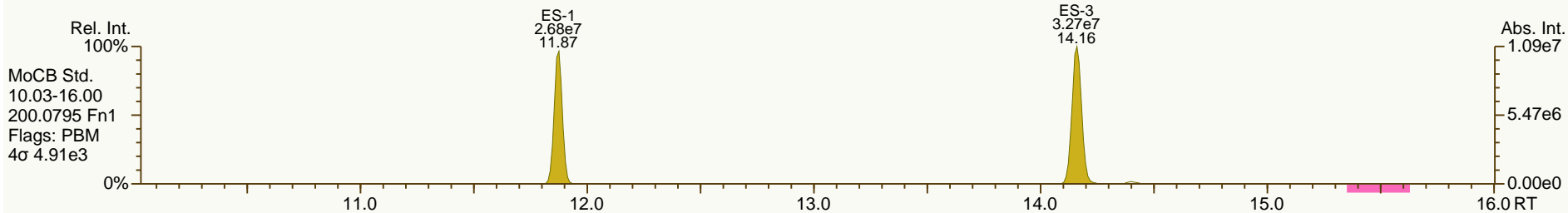
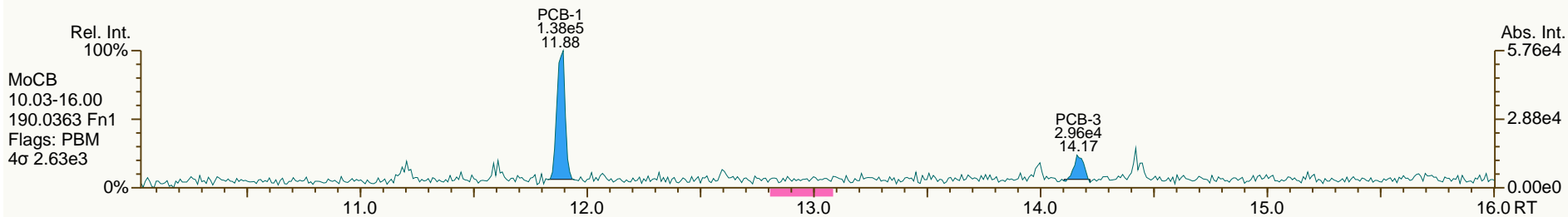
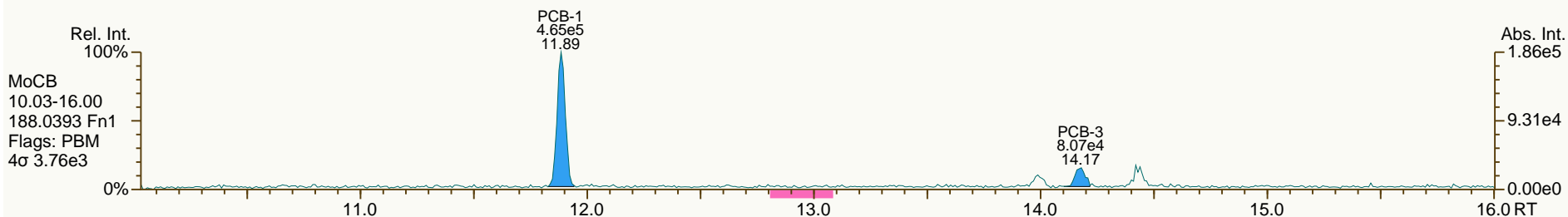
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SGS-AP ID: A6506\_11899\_PCB\_005  
Instr: AutoSpec-Premier MM7

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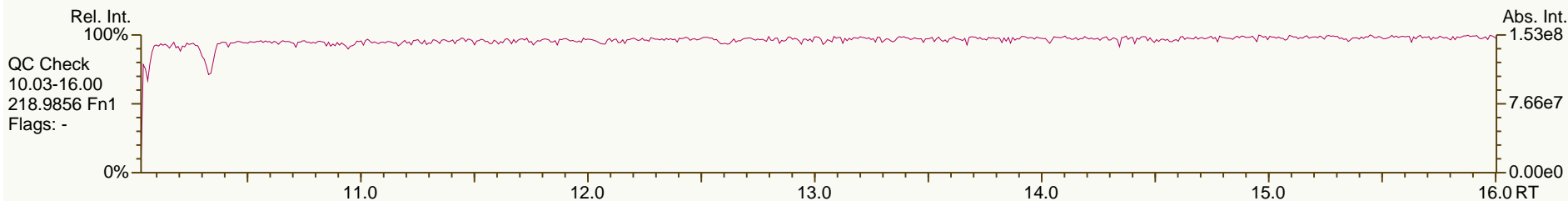
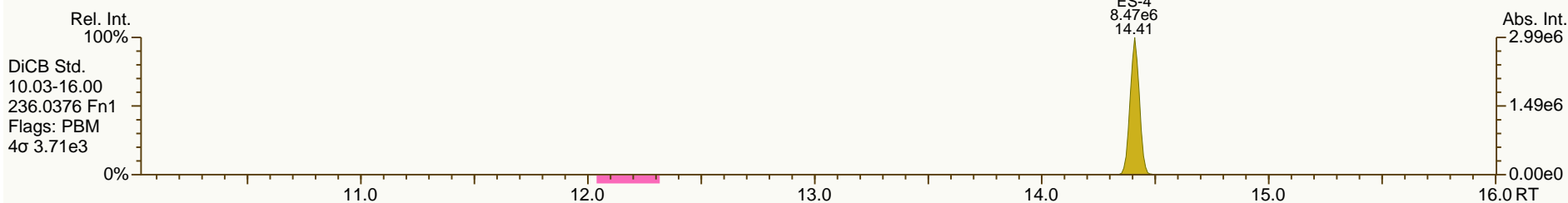
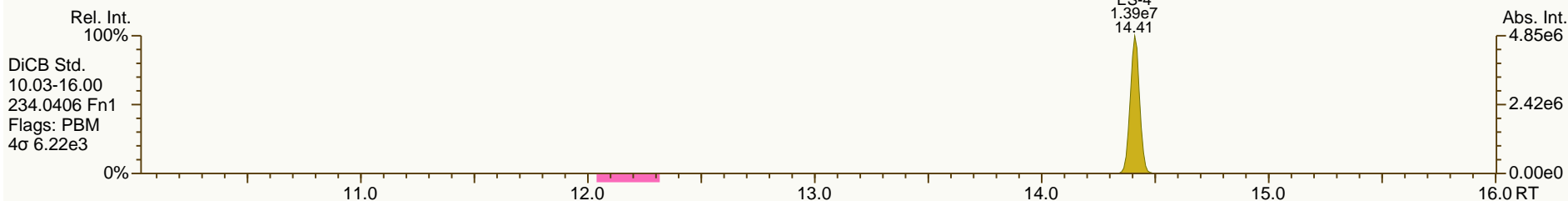
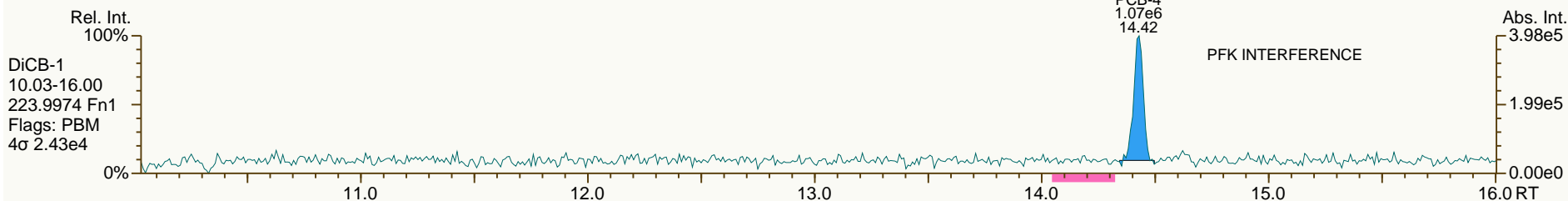
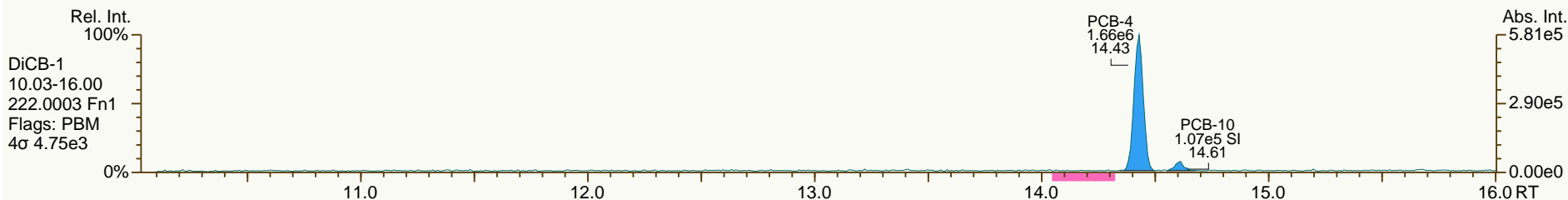
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SGS-AP ID: A6506\_11899\_PCB\_005  
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Sample ID: PB081\_A-1SWMID-140314-N (DISSOLVED)  
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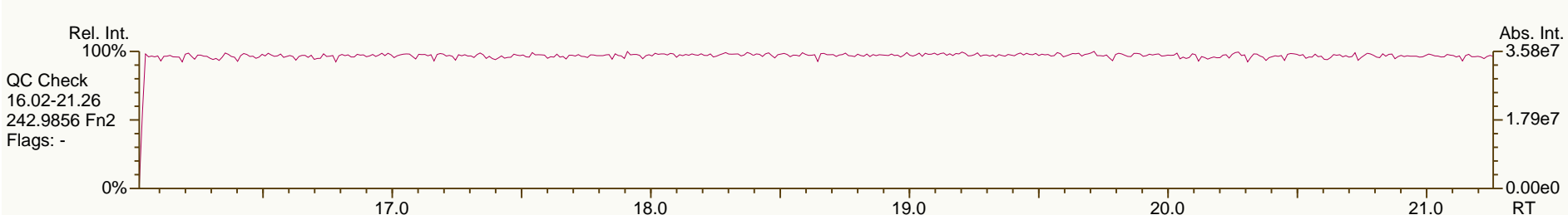
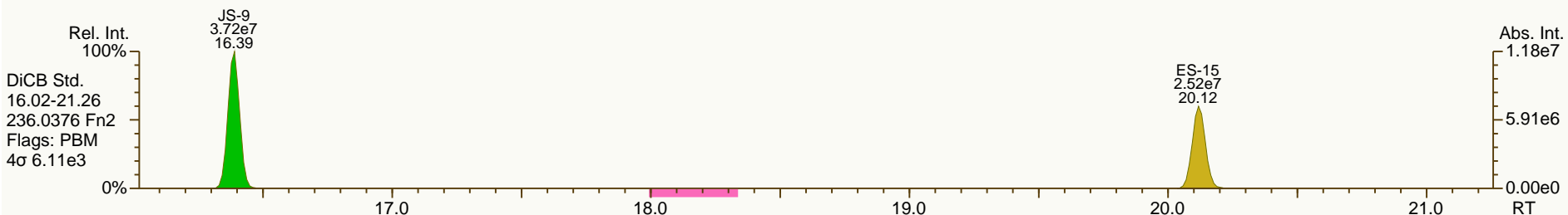
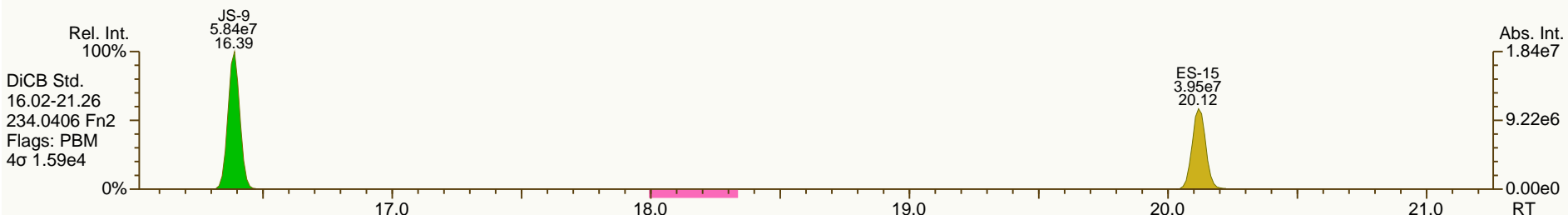
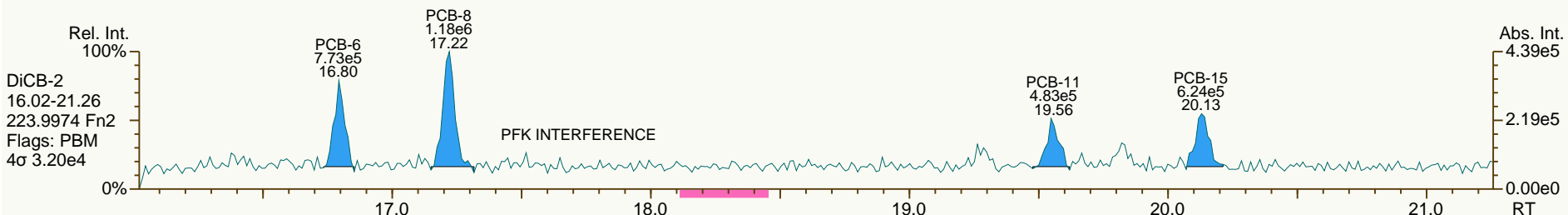
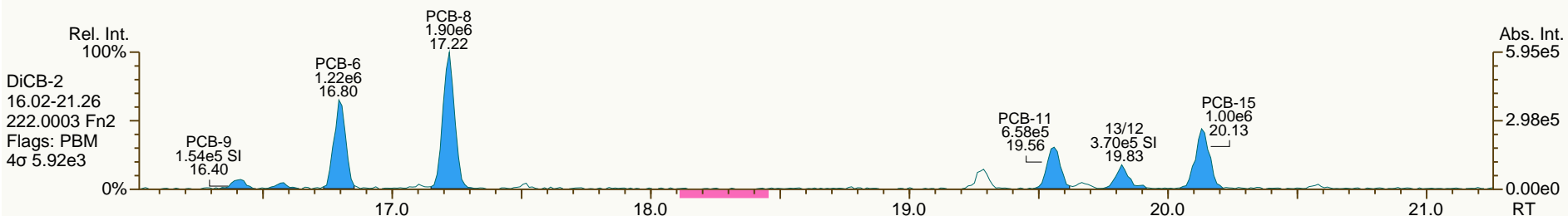
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 Instr: AutoSpec-Premier MM7

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 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 53

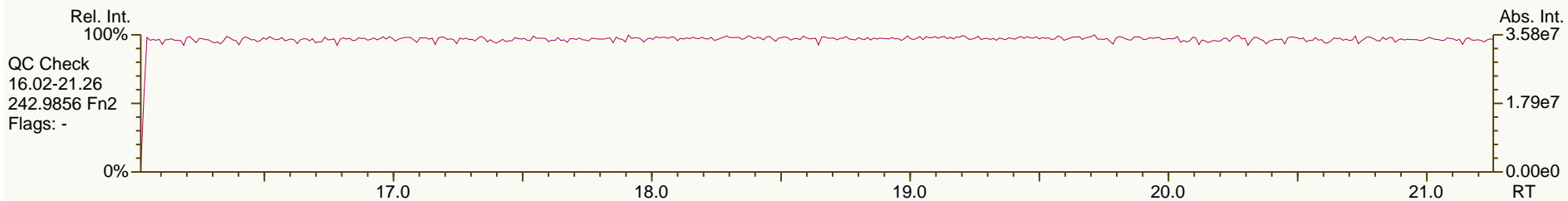
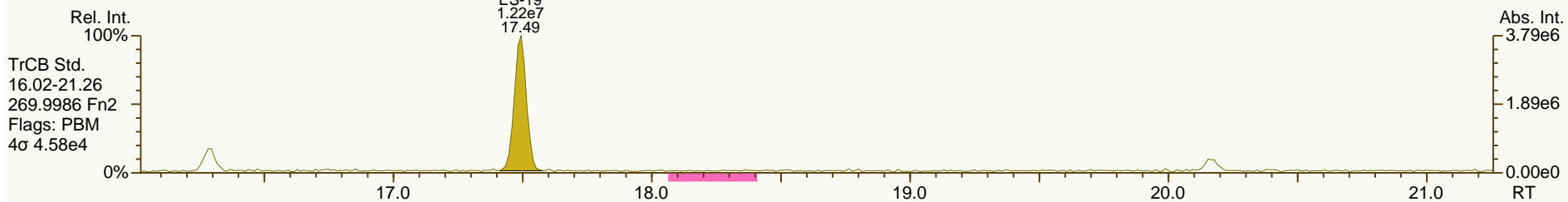
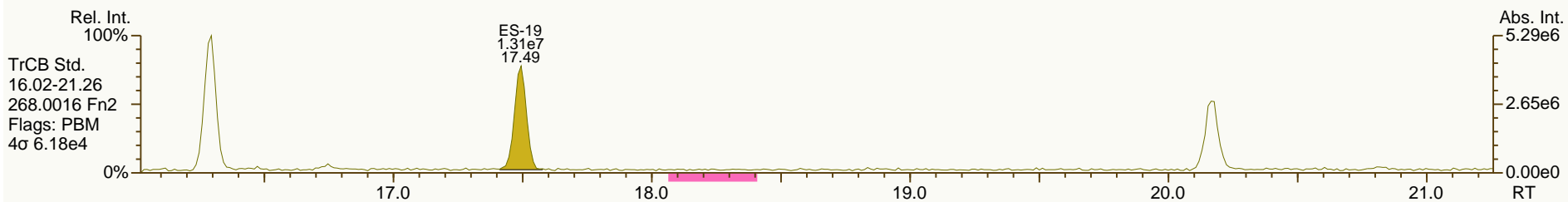
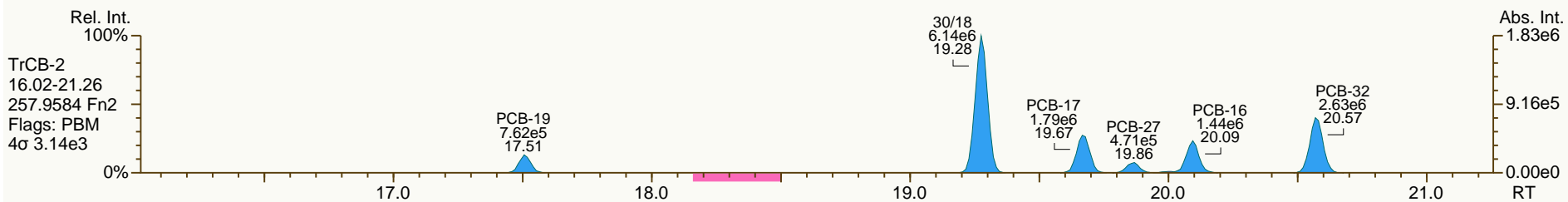
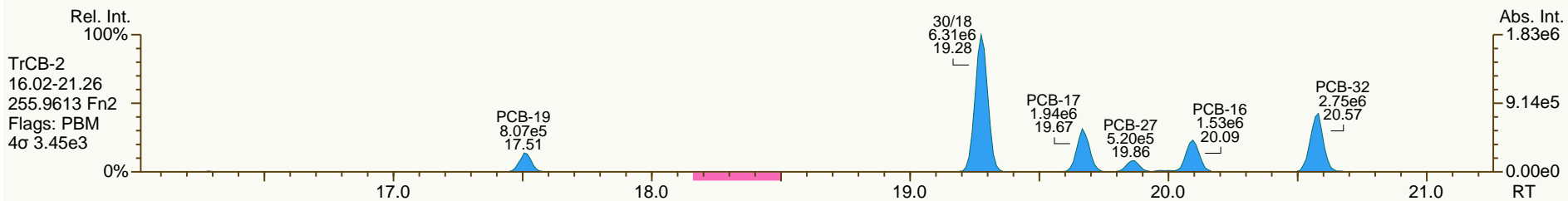
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SGS-AP ID: A6506\_11899\_PCB\_005  
 Instr: AutoSpec-Premier MM7

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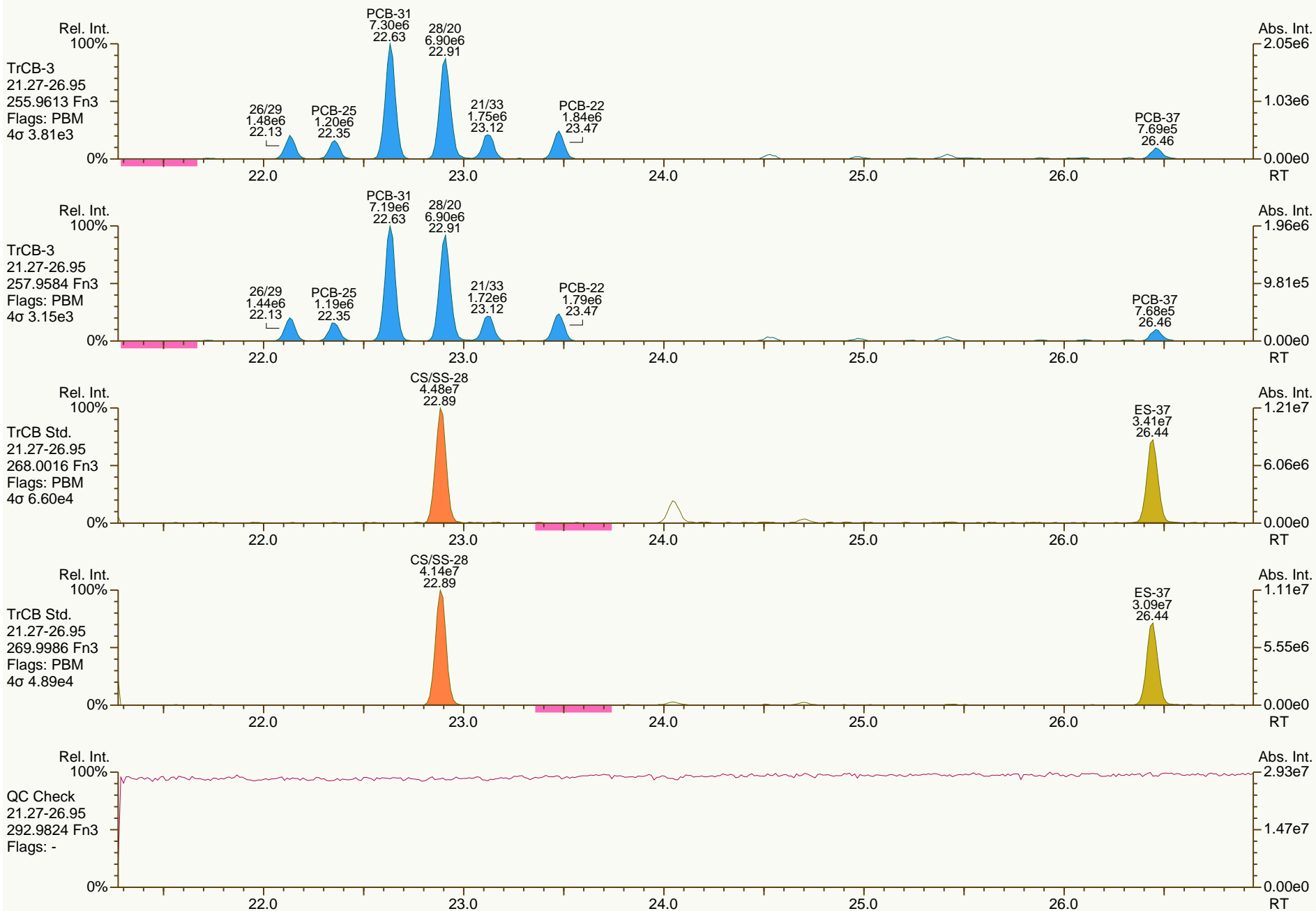
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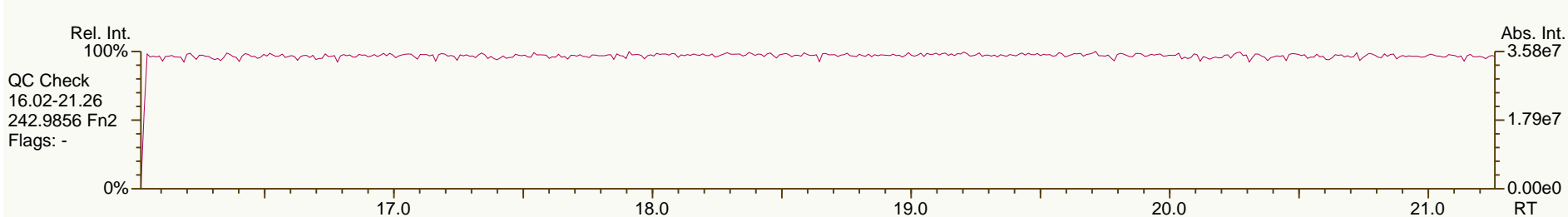
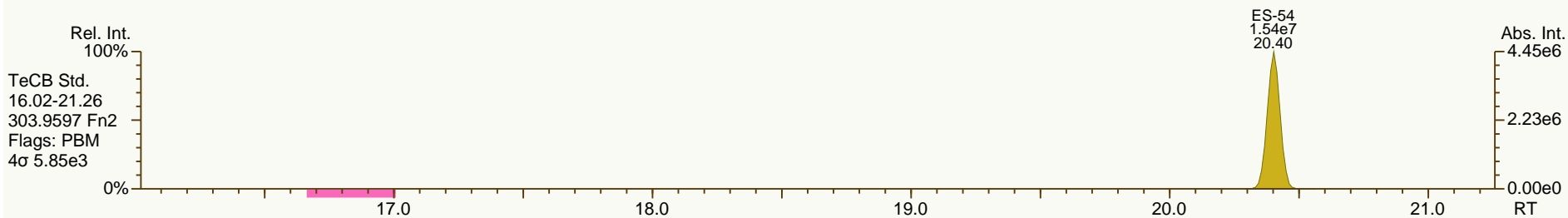
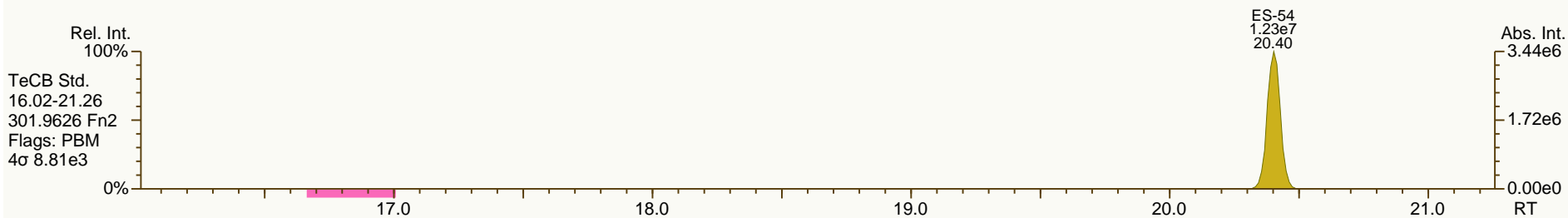
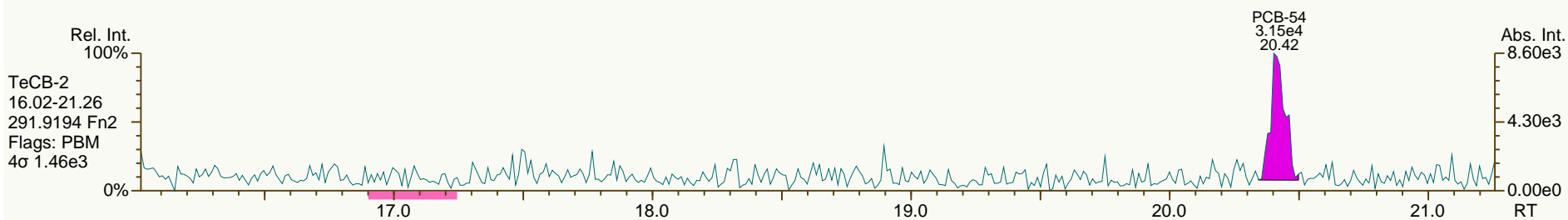
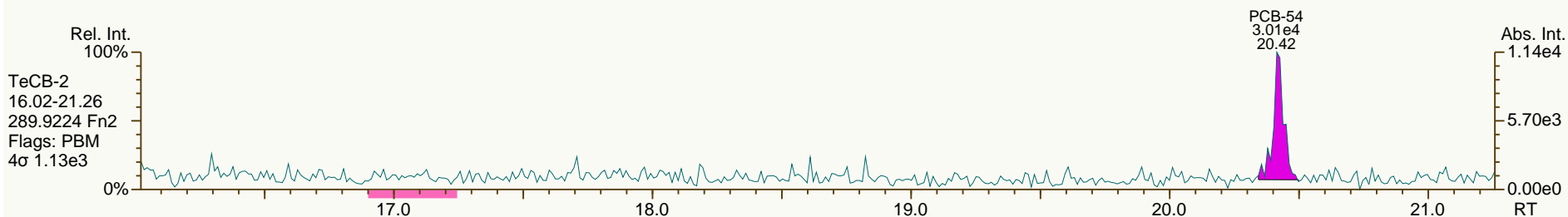
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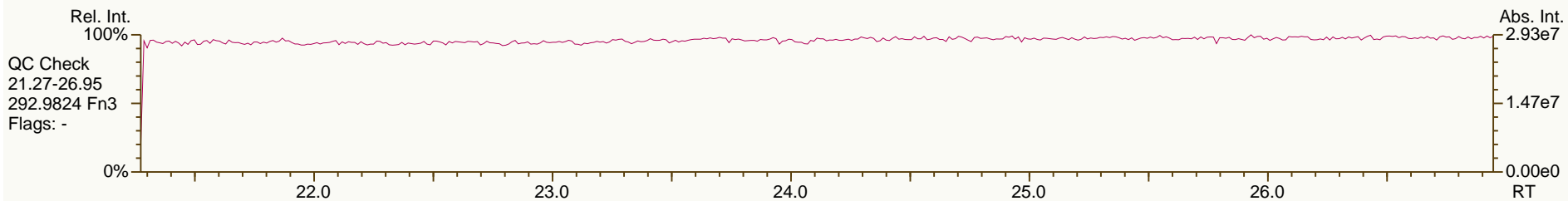
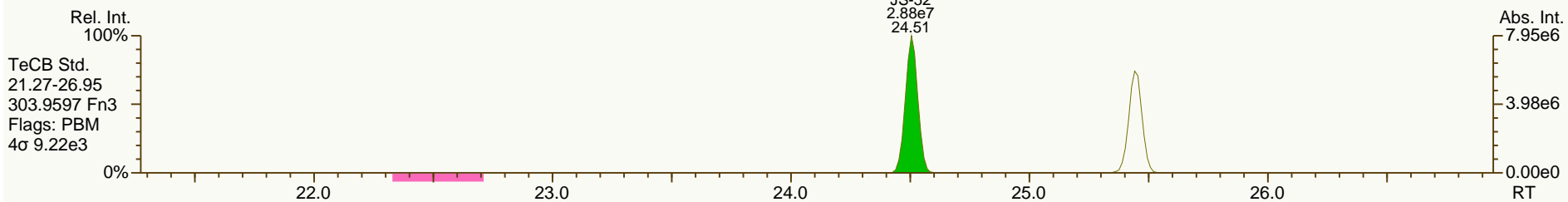
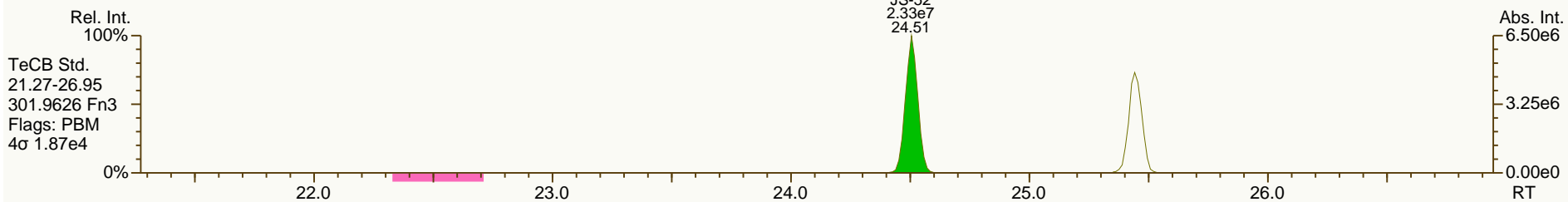
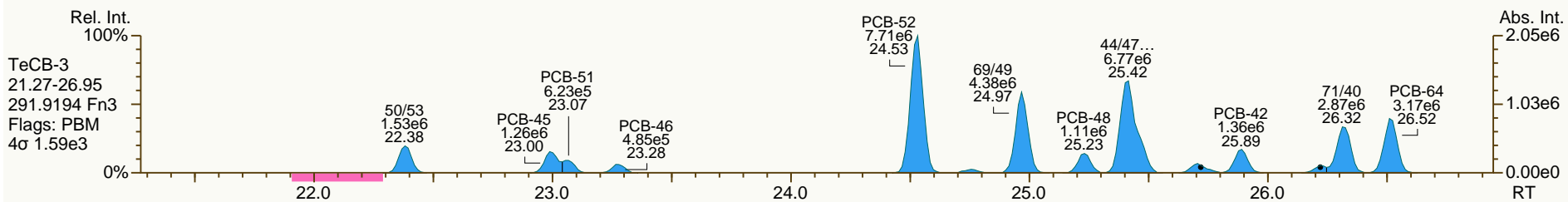
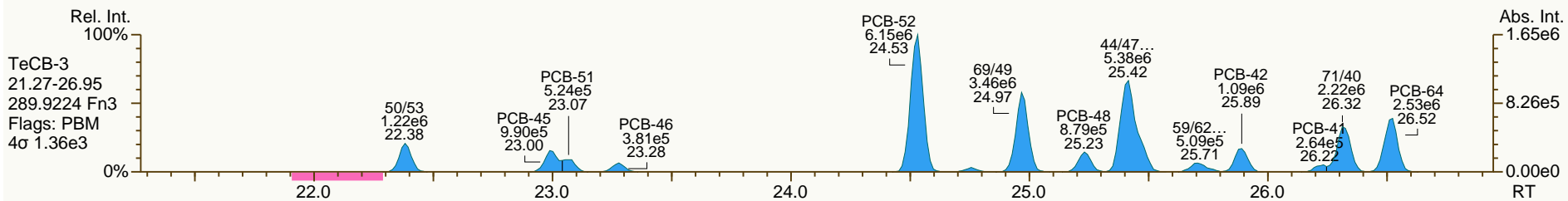




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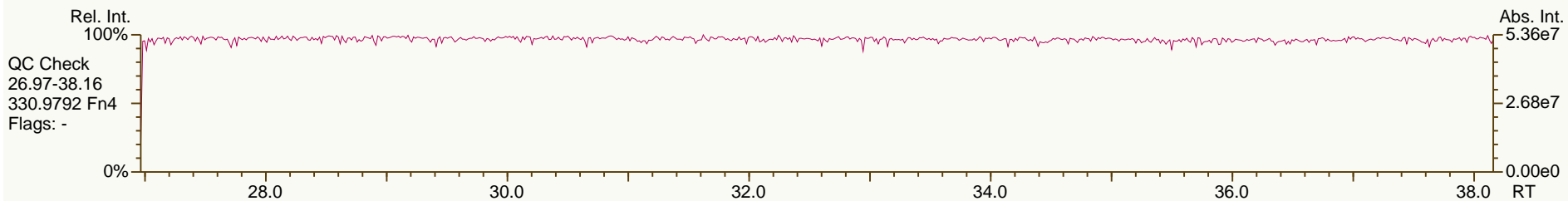
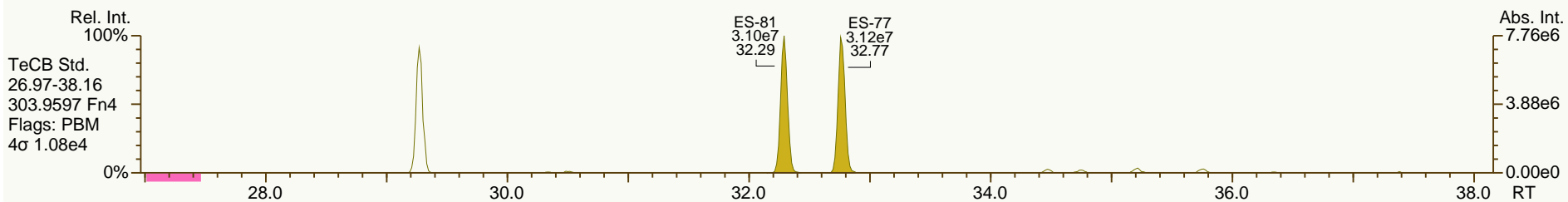
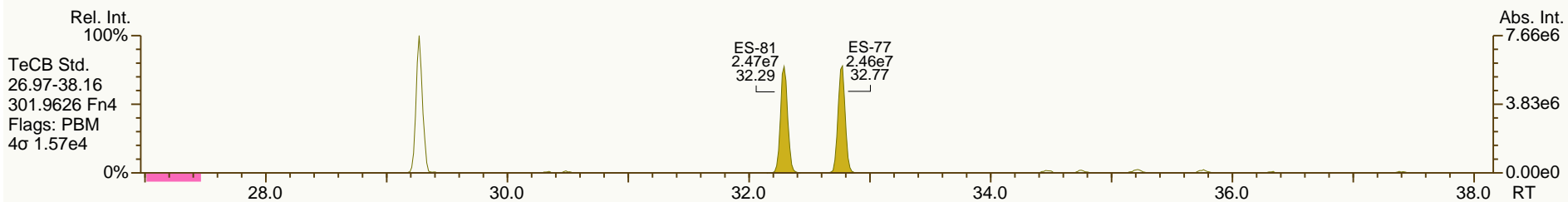
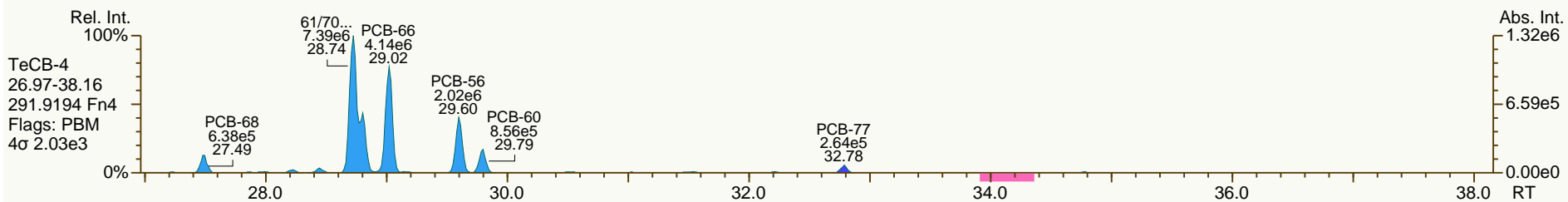
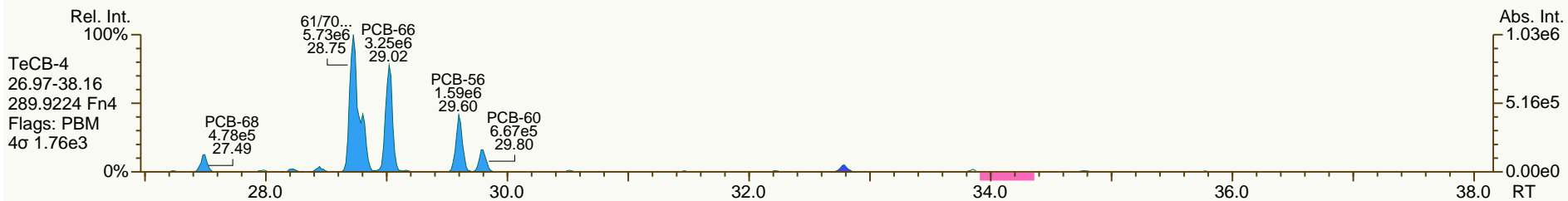
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SGS-AP ID: A6506\_11899\_PCB\_005  
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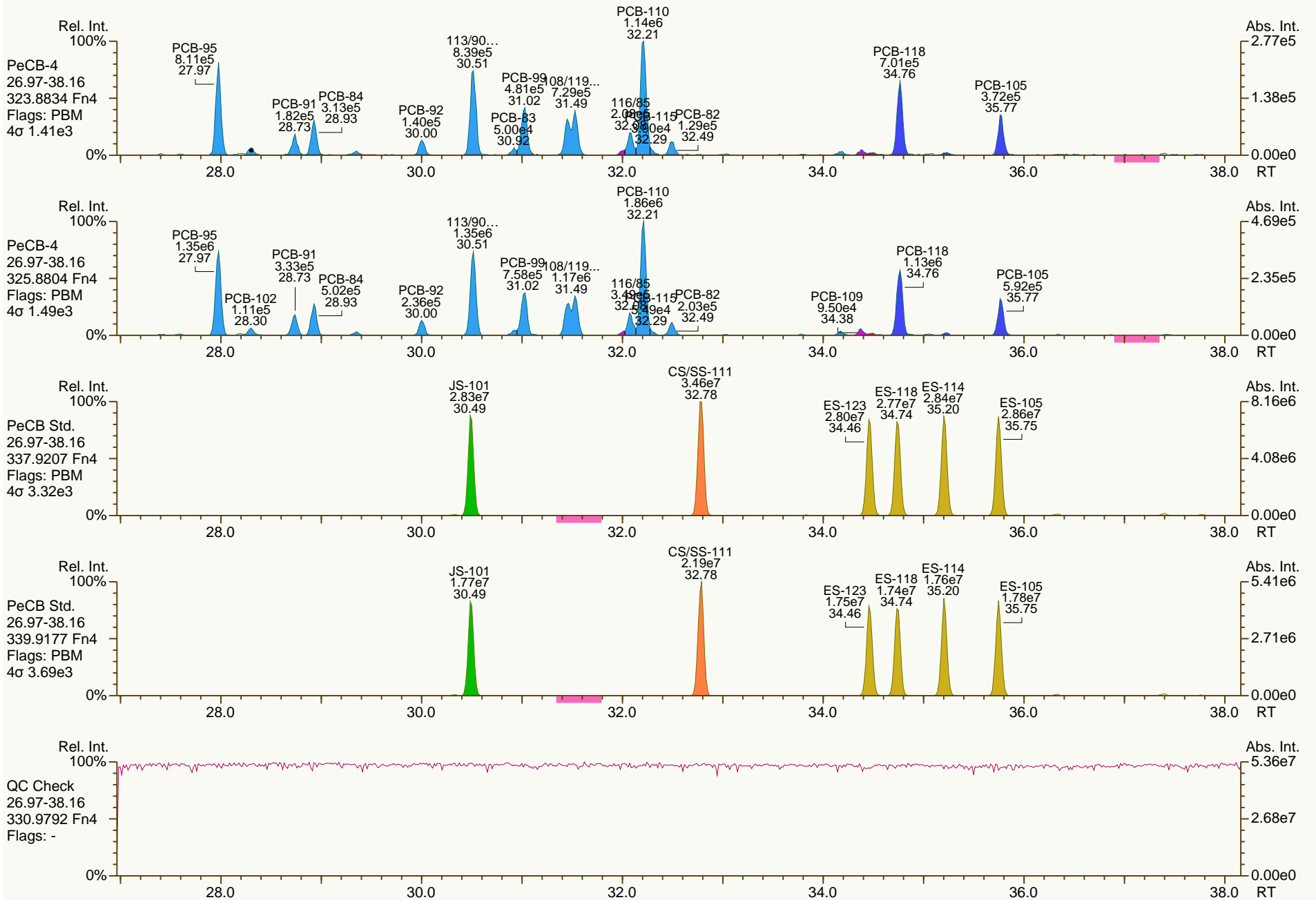
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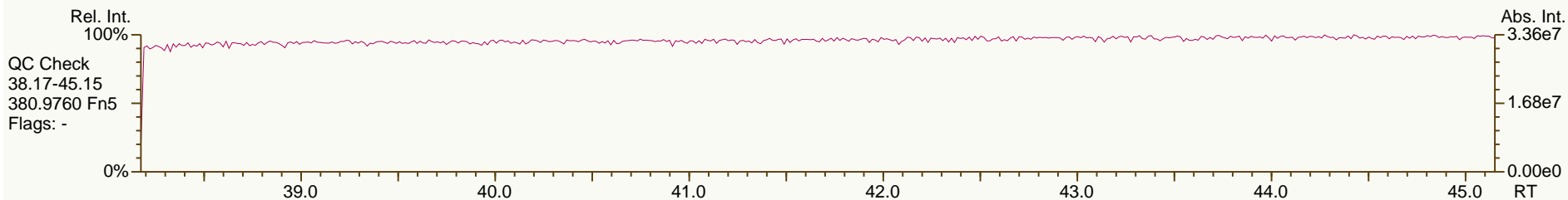
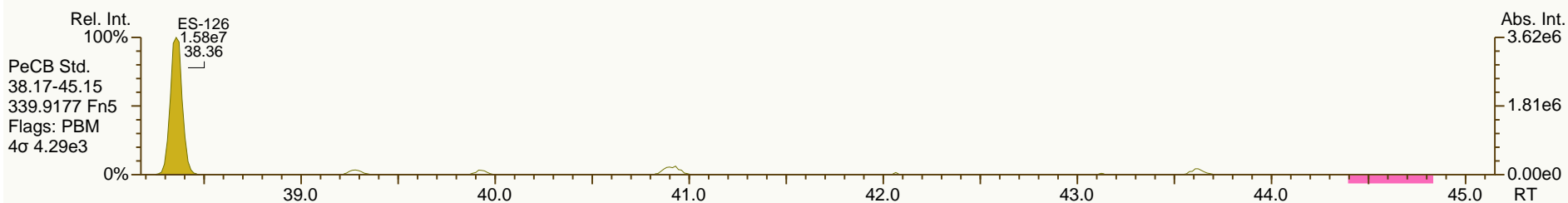
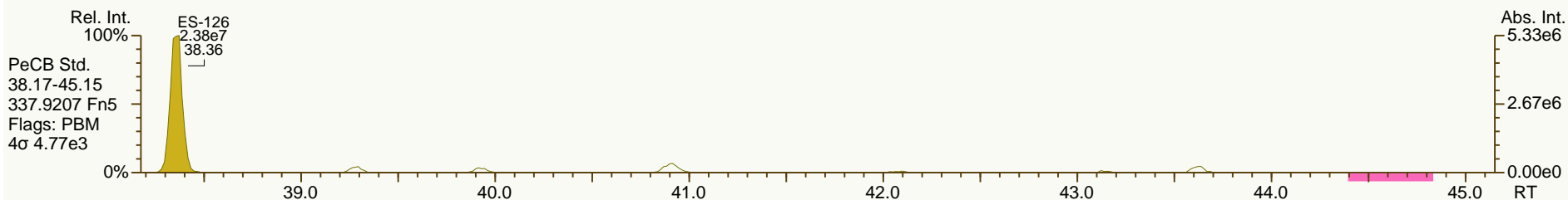
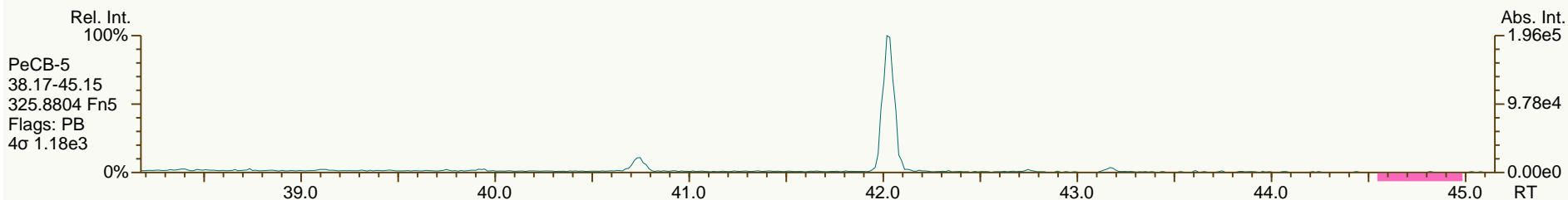
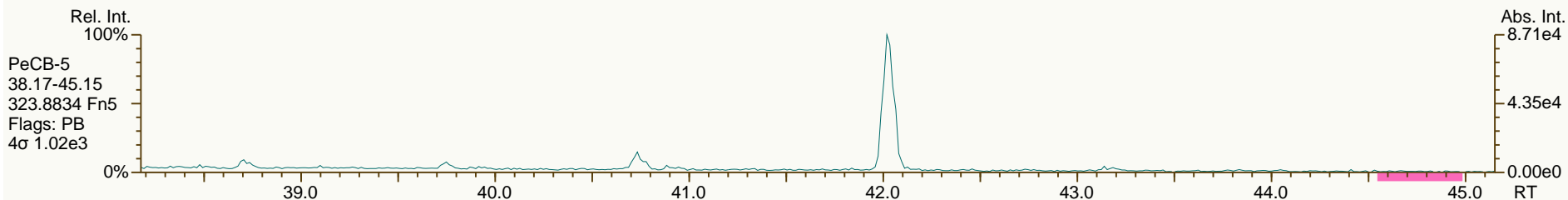
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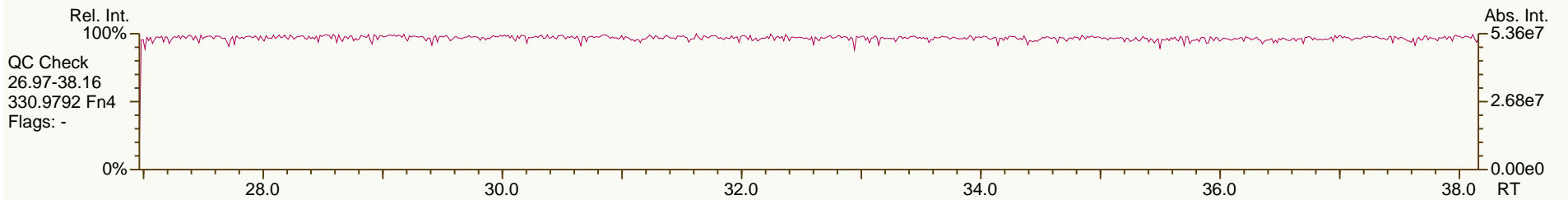
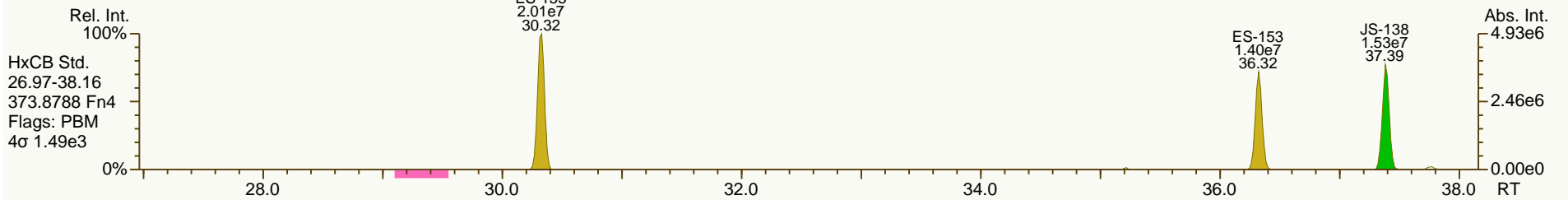
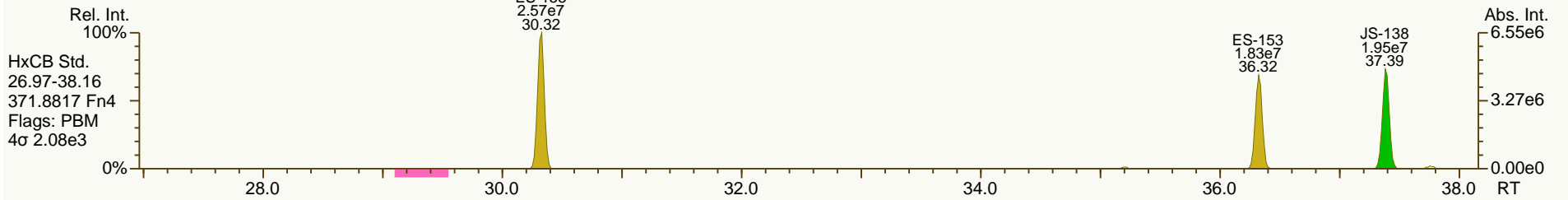
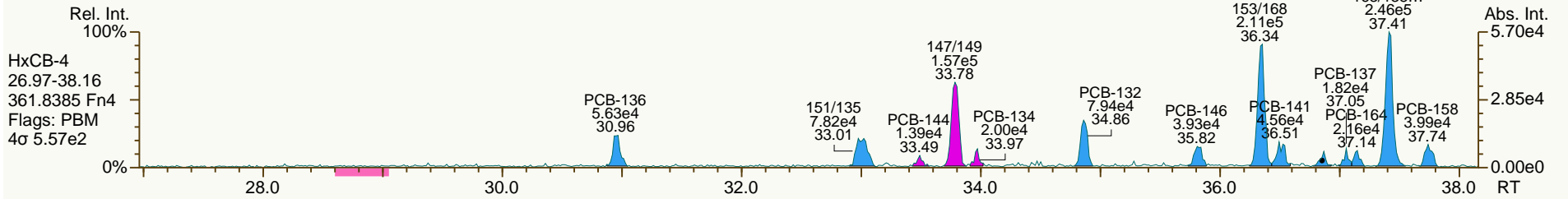
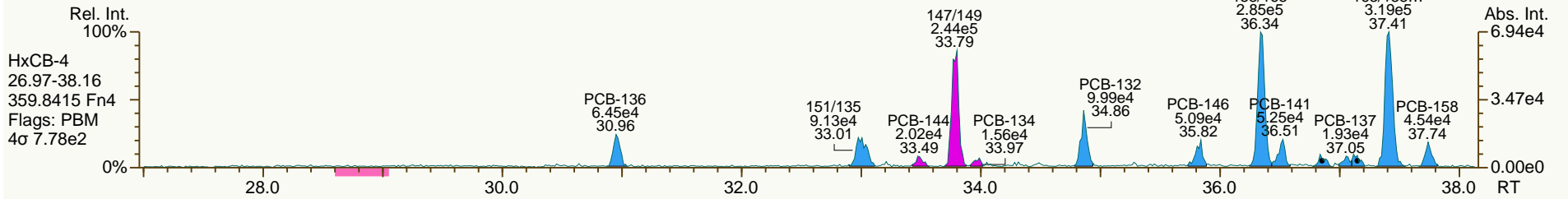
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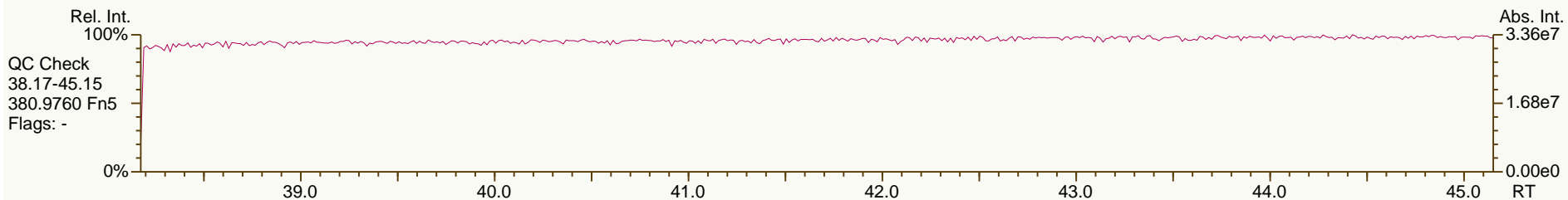
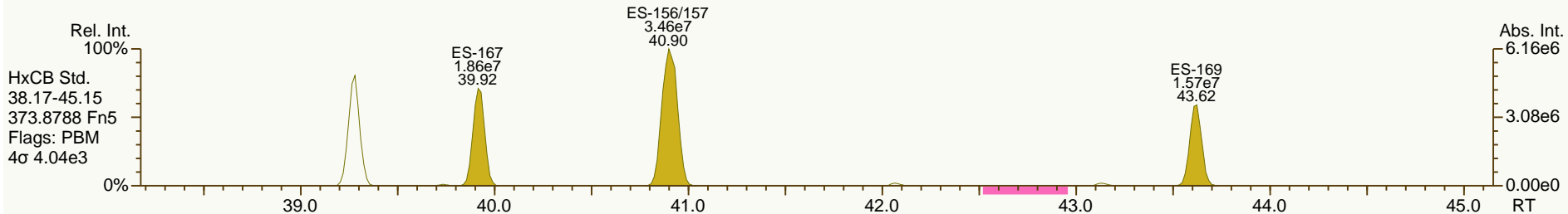
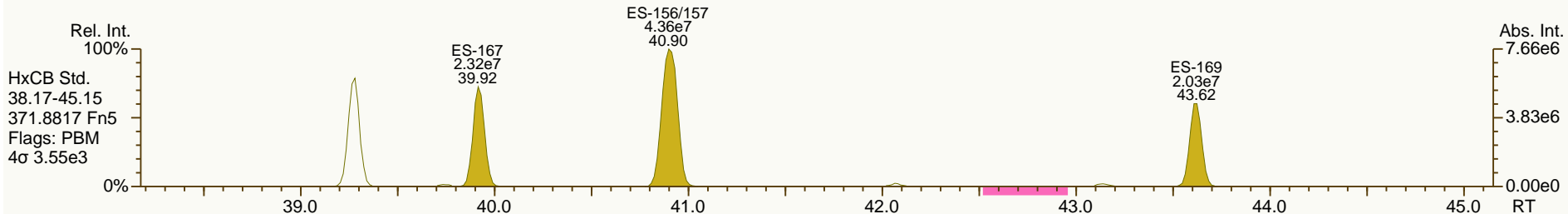
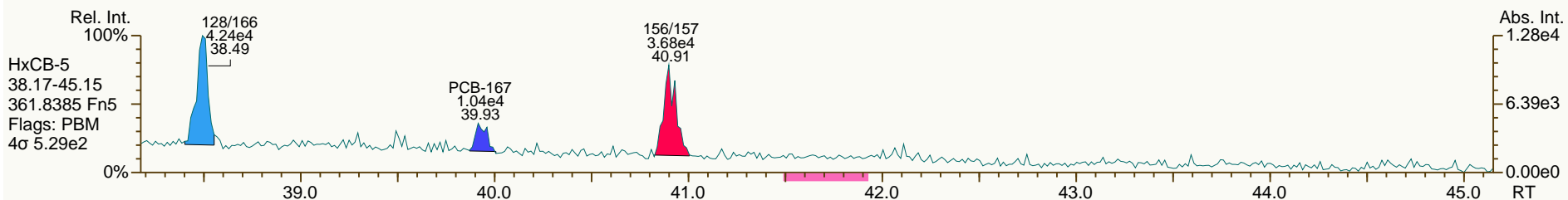
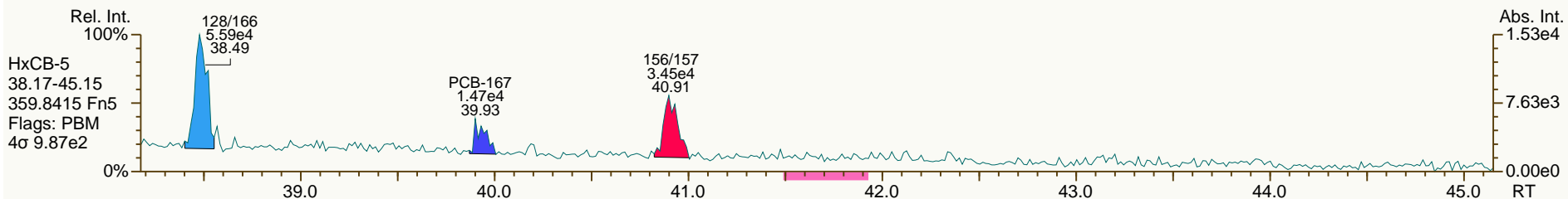
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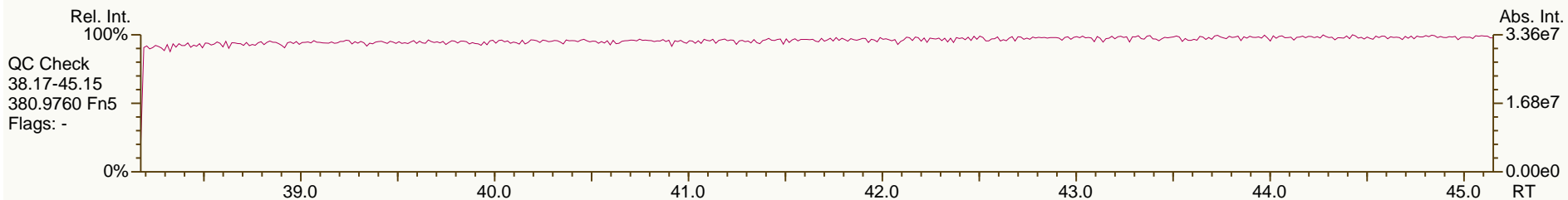
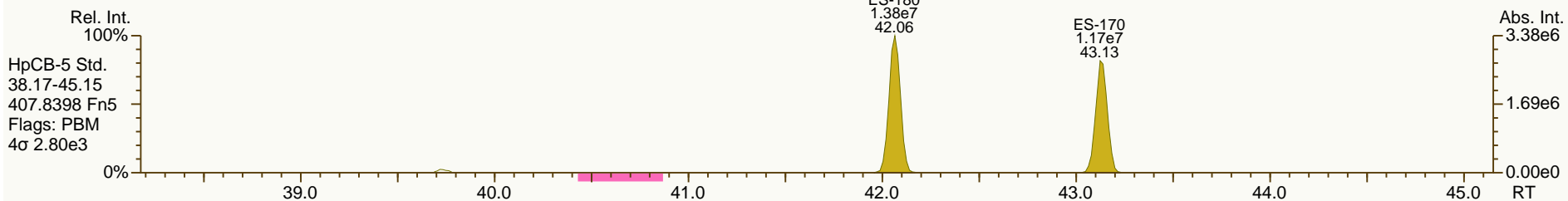
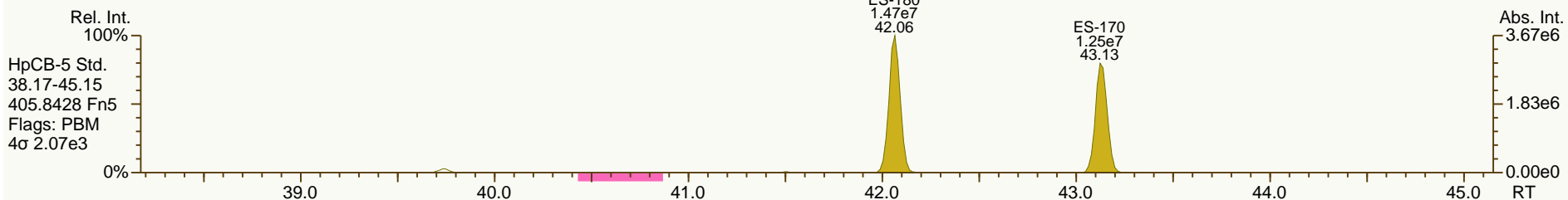
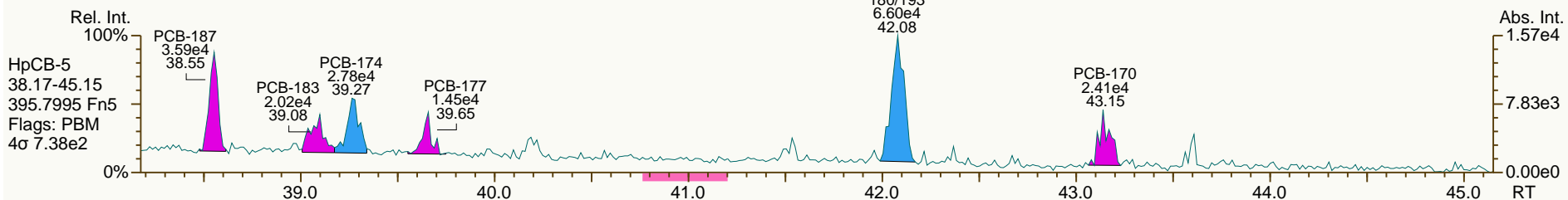
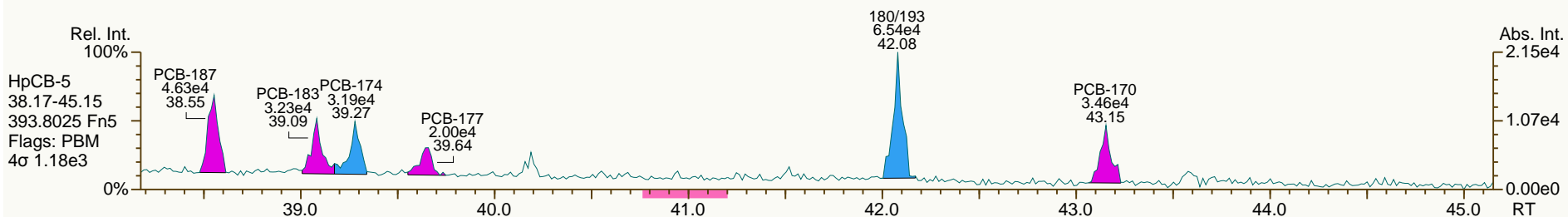




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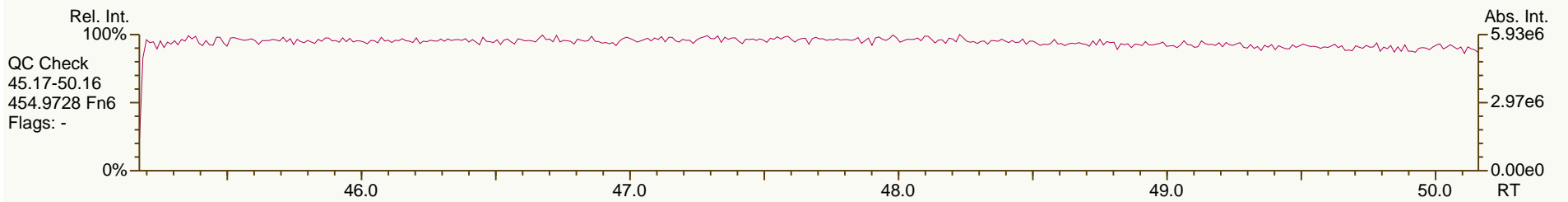
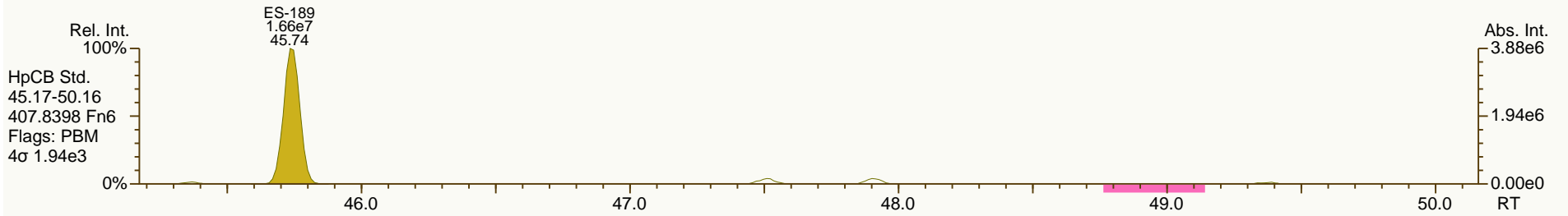
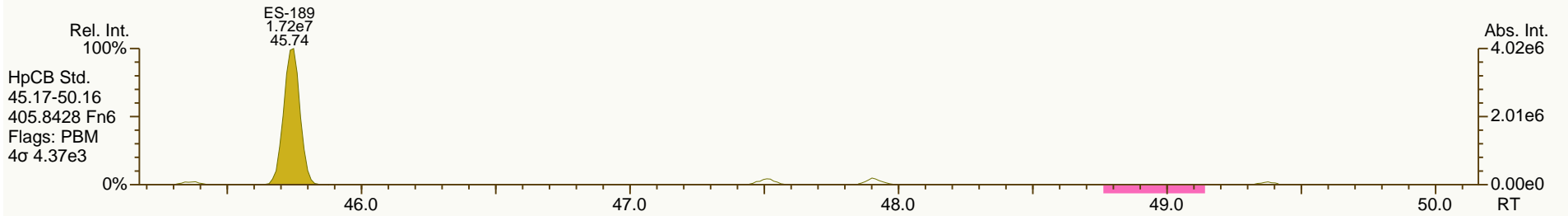
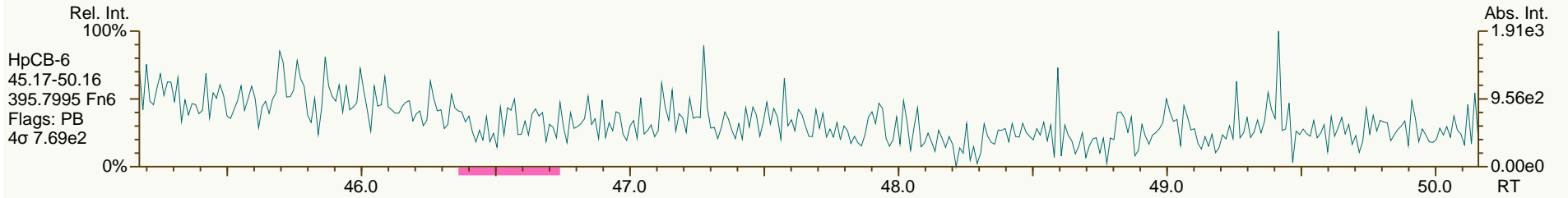
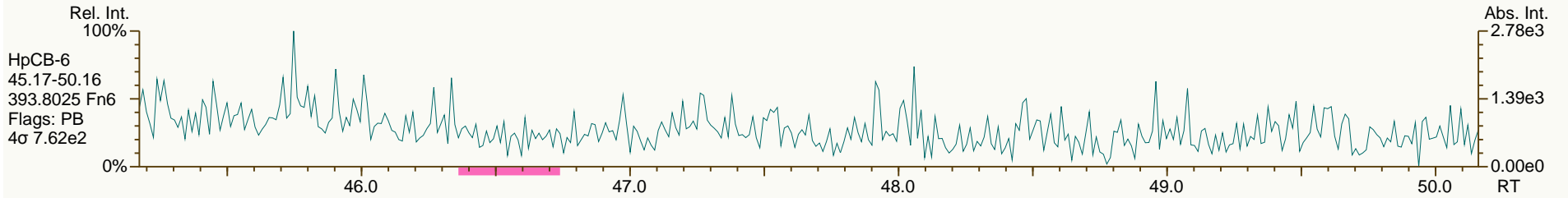
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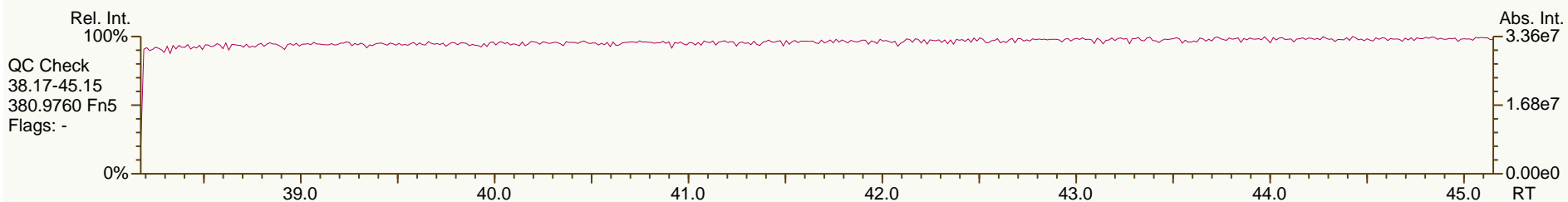
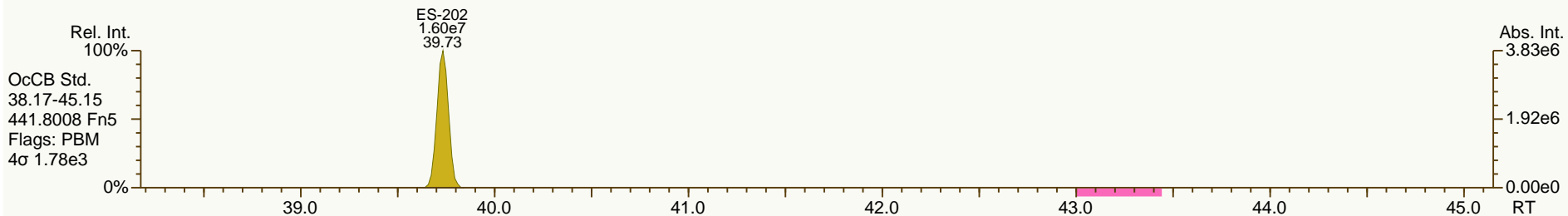
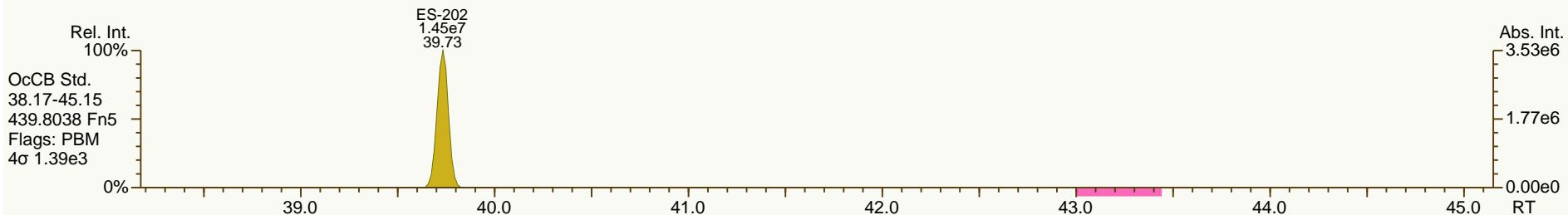
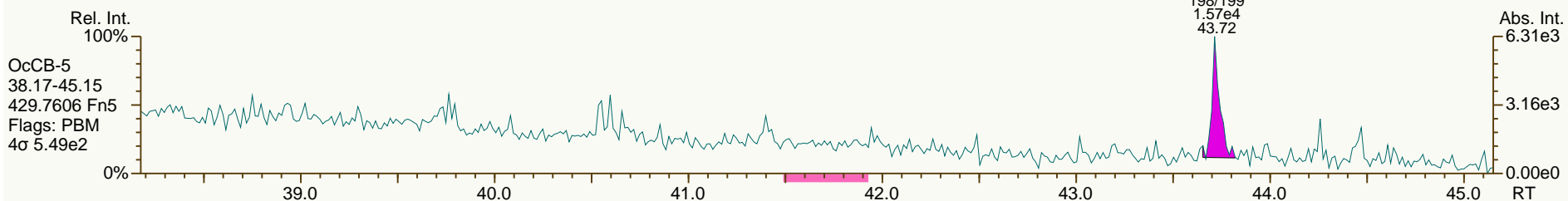
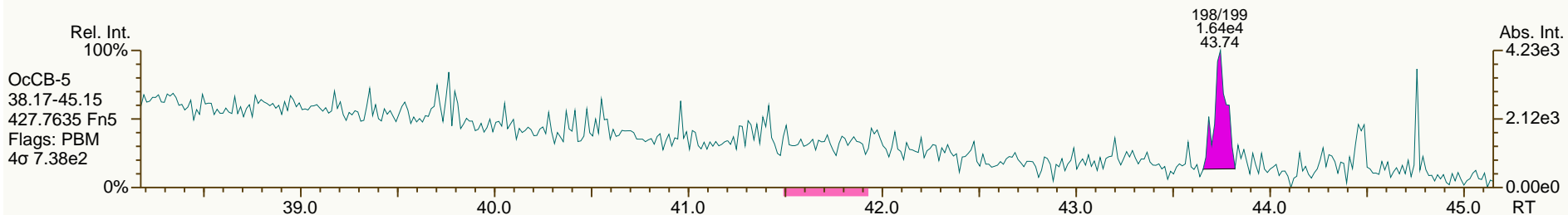
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 Instr: AutoSpec-Premier MM7

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 Instr: AutoSpec-Premier MM7

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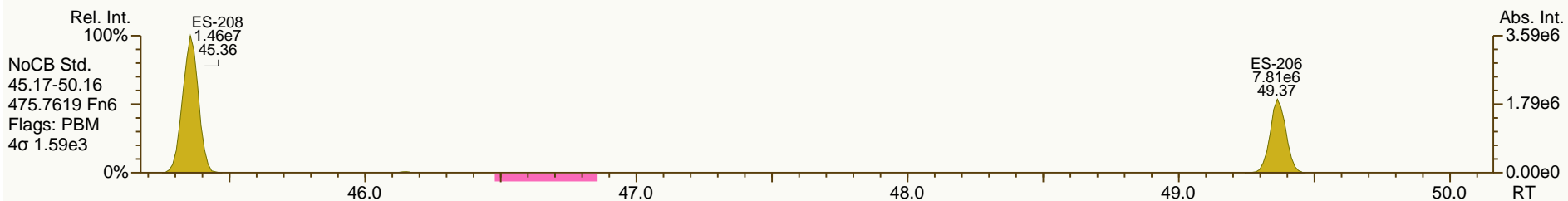
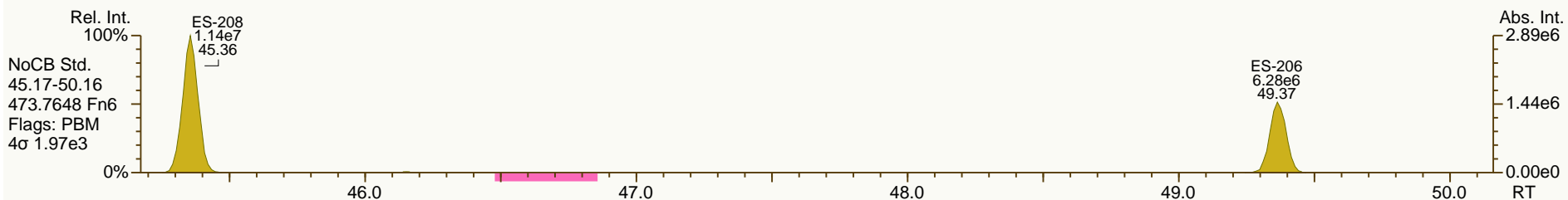
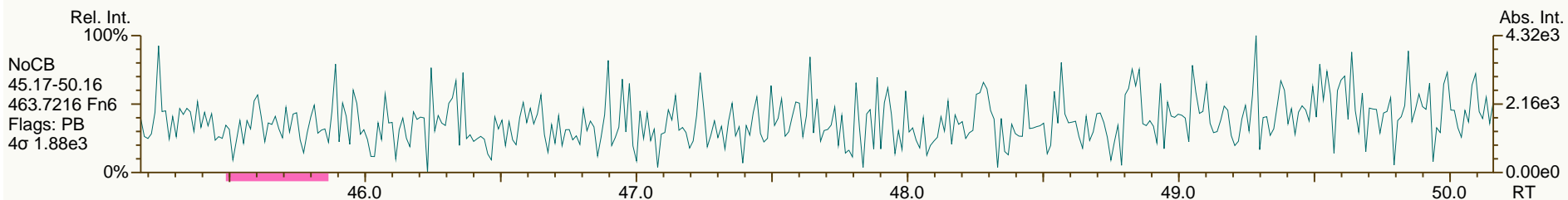
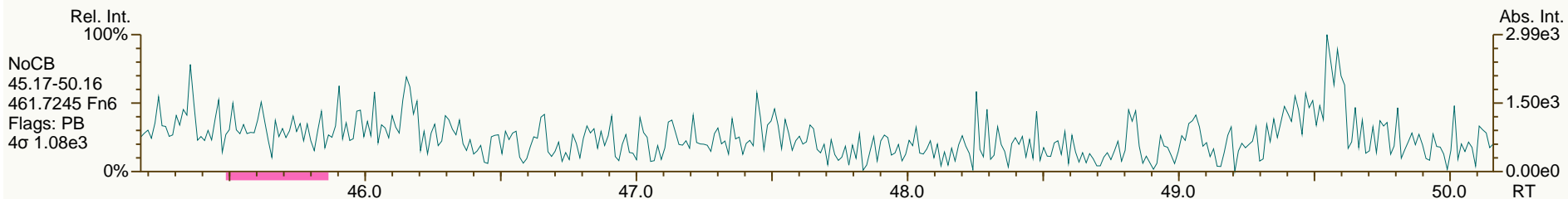
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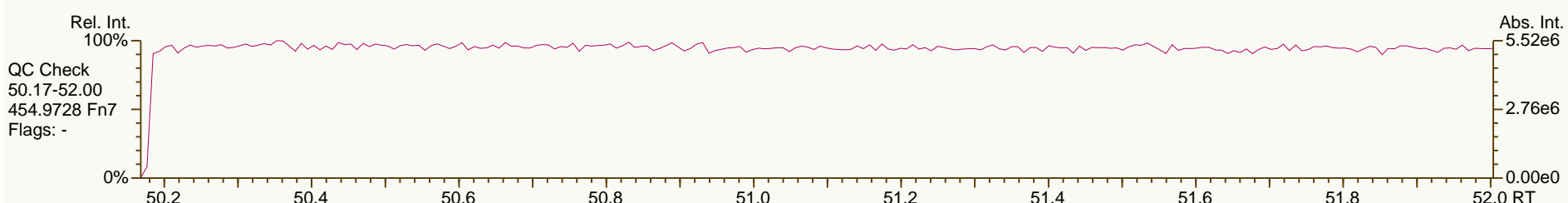
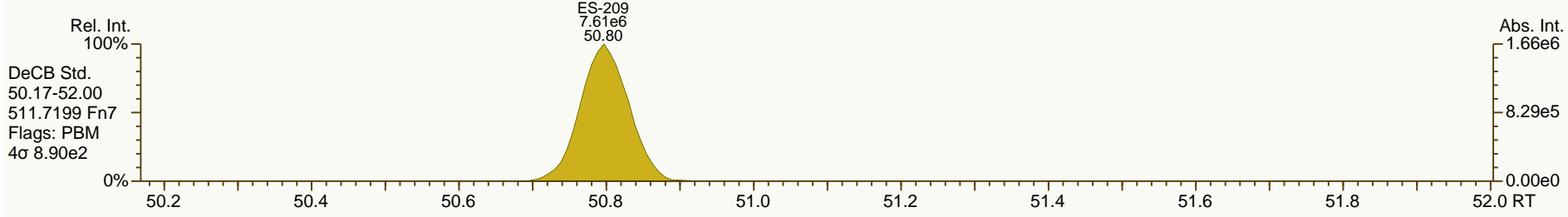
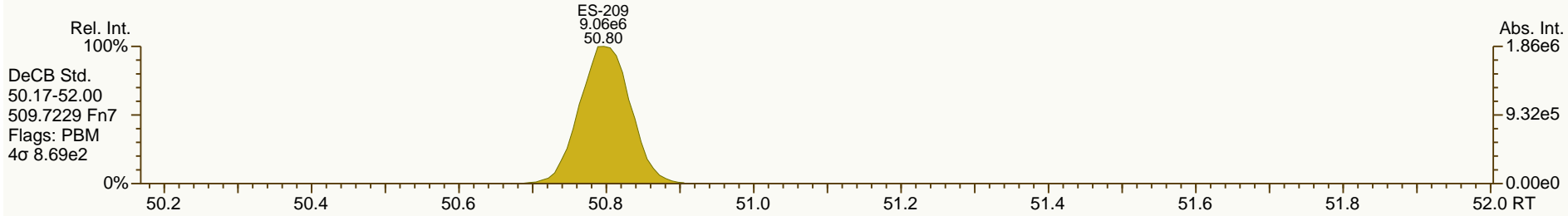
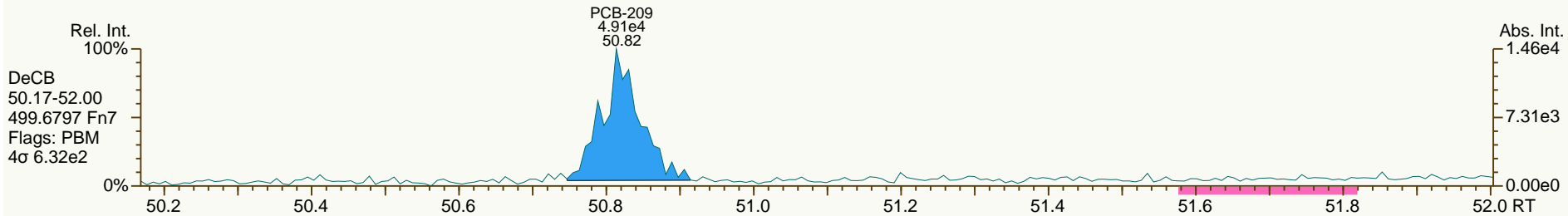
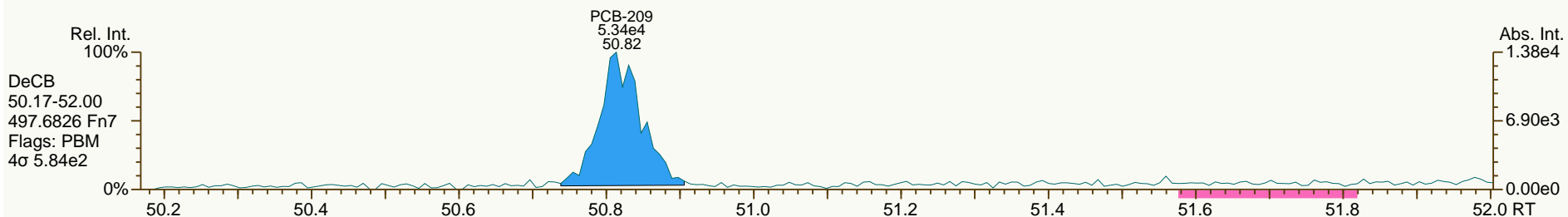
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 Instr: AutoSpec-Premier MM7

Sample ID: PB081\_A-1SWMID-140314-N (DISSOLVED)  
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Wt/Vol: 0.96 L  
 J-level: 10.4 pg/L Split: 1  
 Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA  
 Checkcode: 431-600-JCR  
 Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.80		1.0006	1.0006	0	1.37E+06	0.82	1.15	33.7	4.99E+03	1.29
PCB-81 344'5'-TeCB	32.32	J	1.0005	1.0005	0	6.87E+04	0.82	1.12	1.79	4.99E+03	1.29
PCB-105 233'44'-PeCB	35.78		1.0006	1.0006	0	3.47E+06	0.60	1.11	107	3.06E+03	0.927
PCB-114 2344'5'-PeCB	35.24	J	1.0007	1.0006	-0.2	2.11E+05	0.65	1.20	5.96	3.06E+03	0.896
PCB-118 23'44'5'-PeCB	34.78		1.0006	1.0006	0	7.07E+06	0.60	1.19	206	3.06E+03	0.892
PCB-123 23'44'5'-PeCB	34.50	J	1.0006	1.0008	+0.4	1.86E+05	0.64	1.21	5.43	3.06E+03	0.929
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	3.93E+03	1.42
PCB-156/157 ...-HxCB	40.93	J C	1.0005	1.0002	-0.7	3.99E+05	1.14	1.10	14.3	1.73E+03	0.87
PCB-167 23'44'55'-HxCB	39.95	J EMPC	1.0006	1.0005	-0.2	1.16E+05	1.01	1.16	3.75	1.73E+03	0.584
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.73E+03	0.68
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.67E+03	0.723
PCB-209 DeCB	50.84		1.0004	1.0005	+0.3	1.58E+05	1.12	1.11	11.5	1.15E+03	0.979
ES PCB-1	11.88		0.7245	0.7247	+0.1	4.23E+07	3.25	1.19	31.3 %	15%	150%
ES PCB-3	14.17		0.8640	0.8641	+0.1	5.24E+07	3.32	1.09	42.5 %	15%	150%
ES PCB-4	14.42		0.8795	0.8794	-0.1	2.83E+07	1.59	0.52	47.8 %	25%	150%
ES PCB-15	20.13		1.2271	1.2276	+0.6	9.00E+07	1.56	1.04	76.3 %	25%	150%
ES PCB-19	17.50		1.0673	1.0673	0	3.34E+07	1.06	0.51	58.3 %	25%	150%
ES PCB-37	26.45		1.0787	1.0790	+0.5	8.17E+07	1.09	1.66	76.2 %	25%	150%
ES PCB-54	20.41		0.8328	0.8326	-0.2	4.14E+07	0.78	0.86	74.5 %	25%	150%
ES PCB-77	32.78		1.3364	1.3370	+1.2	7.35E+07	0.81	1.38	82.4 %	25%	150%
ES PCB-81	32.30		1.3170	1.3176	+1.2	7.15E+07	0.81	1.37	81 %	25%	150%
ES PCB-104	25.39		0.8325	0.8322	-0.5	4.46E+07	1.62	0.80	93.1 %	25%	150%
ES PCB-105	35.76		1.1720	1.1723	+0.6	6.10E+07	1.58	1.20	85.1 %	25%	150%
ES PCB-114	35.22		1.1543	1.1546	+0.6	6.12E+07	1.62	1.22	84.2 %	25%	150%
ES PCB-118	34.76		1.1391	1.1394	+0.6	6.02E+07	1.58	1.16	87.1 %	25%	150%
ES PCB-123	34.47		1.1299	1.1302	+0.6	5.88E+07	1.58	1.19	83.1 %	25%	150%
ES PCB-126	38.37		1.2575	1.2579	+0.9	5.33E+07	1.55	1.03	87 %	25%	150%
ES PCB-153	36.34		0.9716	0.9716	0	4.34E+07	1.27	1.11	82.7 %	25%	150%
ES PCB-155	30.34		0.8114	0.8111	-0.5	5.99E+07	1.28	1.59	80.9 %	25%	150%
ES PCB-156/157	40.92		1.0939	1.0941	+0.5	1.06E+08	1.29	1.60	71.1 %	25%	150%
ES PCB-167	39.93		1.0677	1.0678	+0.2	5.56E+07	1.31	1.67	71.5 %	25%	150%
ES PCB-169	43.63		1.1664	1.1666	+0.5	4.82E+07	1.27	1.56	66.4 %	25%	150%
ES PCB-170	43.15		0.9081	0.9080	-0.3	3.25E+07	1.09	0.95	84.6 %	25%	150%
ES PCB-180	42.08		0.8856	0.8855	-0.3	3.89E+07	1.10	1.14	84 %	25%	150%
ES PCB-188	35.21		0.7413	0.7410	-0.6	4.31E+07	1.07	0.94	98.4 %	25%	150%
ES PCB-189	45.76		0.9629	0.9629	0	4.64E+07	1.02	1.58	88.4 %	25%	150%
ES PCB-202	39.75		0.8366	0.8365	-0.2	4.10E+07	0.90	0.97	90.8 %	25%	150%
ES PCB-205	47.92		1.0084	1.0084	0	3.17E+07	0.89	1.24	76.9 %	25%	150%
ES PCB-206	49.38		1.0392	1.0392	0	2.13E+07	0.79	0.83	77.3 %	25%	150%
ES PCB-208	45.37		0.9549	0.9548	-0.3	3.58E+07	0.79	1.17	92 %	25%	150%
ES PCB-209	50.81		1.0694	1.0693	-0.3	2.57E+07	1.19	1.11	69.8 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.90		0.9339	0.9339	0	1.04E+08	1.09	1.11	114 %	30%	135%
SS PCB-111	32.80		1.0750	1.0751	+0.2	7.19E+07	1.59	1.03	119 %	30%	135%
SS PCB-178	37.78		1.0100	1.0100	0	3.09E+07	1.08	0.62	116 %	30%	135%
CS PCB-28	22.90		0.9339	0.9339	0	1.04E+08	1.09	1.85	87 %	30%	135%
CS PCB-111	32.80		1.0750	1.0751	+0.2	7.19E+07	1.59	1.22	98.8 %	30%	135%
CS PCB-178	37.78		1.0100	1.0100	0	3.09E+07	1.08	0.58	114 %	30%	135%
JS PCB-9	16.40					1.13E+08	1.55				
JS PCB-52	24.52					6.45E+07	0.80				
JS PCB-101	30.50					5.96E+07	1.61				
JS PCB-138	37.40					4.66E+07	1.30				
JS PCB-194	47.52					3.31E+07	0.93				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	21.9	21.9	1.76		
						Di-CBs	339	339	3.09		
						Tri-CBs	2,090	2,090	2.65		
						Tetra-CBs	4,050	4,050	1.04		
						Penta-CBs	1,920	1,930	0.927		
						Hexa-CBs	539	546	0.622		
						Hepta-CBs	146	149	0.755		
						Octa-CBs	27.2	32.7	0.813		
						Nona-CBs	0	0	2.03		
PCB-1 2-MoCB	11.90		1.0011	1.0010	-0.1	3.41E+05	3.20	0.95	17.6	5.74E+03	1.82
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.20	ND	5.74E+03	1.44
PCB-3 4-MoCB	14.19	J	1.0010	1.0011	+0.1	1.08E+05	2.96	1.01	4.25	5.74E+03	1.71
PCB-4 22'-DiCB	14.44		1.0011	1.0011	0	2.09E+06	1.51	1.23	125	8.27E+03	3.67
PCB-10 26'-DiCB	14.61	J	1.0135	1.0133	-0.2	1.24E+05	SI	1.90	4.8	8.27E+03	2.37
PCB-9 25'-DiCB	16.42	J	1.0010	1.0010	0	1.98E+05	SI	1.01	4.53	1.25E+04	2.54
PCB-7 24'-DiCB	16.58	J	1.0111	1.0111	0	1.29E+05	SI	1.14	2.63	1.25E+04	2.26
PCB-6 23'-DiCB	16.81		1.0249	1.0249	0	2.77E+06	1.58	1.06	60.3	1.25E+04	2.41
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.07	ND	1.25E+04	2.39
PCB-8 24'-DiCB	17.23		1.0506	1.0507	+0.1	2.22E+06	1.62	1.10	46.8	1.25E+04	2.34
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	1.25E+04	2.02
PCB-11 33'-DiCB	19.57	B	0.9721	0.9721	0	1.78E+06	1.49	1.10	37.4	1.25E+04	2.33
PCB-13/12 34'/34'-DiCB	19.84	C	0.9866	0.9853	-1.5	1.04E+06	1.53	1.10	22	1.25E+04	2.34
PCB-15 44'-DiCB	20.15		1.0008	1.0007	-0.1	1.57E+06	1.65	1.02	35.6	1.25E+04	2.52
PCB-19 22'6-TrCB	17.52		1.0010	1.0011	+0.1	1.52E+06	1.06	1.15	82.4	6.78E+03	3.27
PCB-30/18 246/22'5-TrCB	19.29	C	1.1014	1.1020	+0.7	9.59E+06	1.04	1.54	389	6.78E+03	2.45
PCB-17 22'4-TrCB	19.68		1.1243	1.1245	+0.2	3.82E+06	1.07	1.32	180	6.78E+03	2.84
PCB-27 23'6-TrCB	19.87		1.1353	1.1355	+0.2	9.30E+05	1.11	1.80	32.1	6.78E+03	2.09
PCB-24 236-TrCB	19.99	J EMPC	1.1430	1.1423	-0.8	8.02E+04	1.47	1.71	2.93	6.78E+03	2.2
PCB-16 22'3-TrCB	20.11		1.1484	1.1487	+0.4	1.92E+06	1.05	1.01	118	6.78E+03	3.71
PCB-32 24'6-TrCB	20.58		1.1758	1.1761	+0.4	5.95E+06	1.03	1.90	195	6.78E+03	1.98



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.74	J	0.8218	0.8217	-0.1	1.69E+05	0.91	1.28	3.37	8.72E+03	1.71
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	8.72E+03	1.71
PCB-26/29 23'5'/245-TrCB	22.14	C	0.8383	0.8371	-1.6	4.95E+06	0.99	1.29	97.9	8.72E+03	1.69
PCB-25 23'4'-TrCB	22.36		0.8456	0.8454	-0.3	5.52E+06	1.01	1.28	110	8.72E+03	1.7
PCB-31 24'5'-TrCB	22.65		0.8562	0.8560	-0.3	1.66E+07	1.00	1.34	315	8.72E+03	1.62
PCB-28/20 244'/233'-TrCB	22.92	C	0.8670	0.8664	-0.8	1.80E+07	1.01	1.25	366	8.72E+03	1.74
PCB-21/33 234'/23'4'-TrCB	23.13	C	0.8738	0.8744	+0.8	2.86E+06	0.97	1.29	56.7	8.72E+03	1.7
PCB-22 234'-TrCB	23.49		0.8880	0.8878	-0.3	4.17E+06	1.02	1.20	88.5	8.72E+03	1.82
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	8.72E+03	1.65
PCB-39 34'5'-TrCB	25.22	J	0.9522	0.9535	+2.0	1.43E+05	1.12	1.36	2.69	8.72E+03	1.61
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.21	ND	8.72E+03	1.8
PCB-35 33'4'-TrCB	26.10	J	0.9871	0.9868	-0.5	3.12E+05	1.19	1.16	6.89	8.72E+03	1.89
PCB-37 344'-TrCB	26.48		1.0007	1.0009	+0.3	2.01E+06	1.03	1.08	47.6	8.72E+03	2.03
PCB-54 22'66'-TeCB	20.43	J	1.0010	1.0010	0	8.21E+04	0.80	1.35	3.06	2.51E+03	0.798
PCB-50/53 22'46'/22'56'-TeCB	22.39	C	0.9145	0.9134	-1.5	3.57E+06	0.82	0.92	113	2.88E+03	0.9
PCB-45 22'36'-TeCB	23.01		0.9383	0.9383	0	2.12E+06	0.79	0.80	77.1	2.88E+03	1.04
PCB-51 22'46'-TeCB	23.08		0.9413	0.9412	-0.1	1.88E+06	0.78	0.93	59.2	2.88E+03	0.9
PCB-46 22'36'-TeCB	23.29		0.9499	0.9498	-0.1	1.06E+06	0.80	0.73	42.1	2.88E+03	1.14
PCB-52 22'55'-TeCB	24.54		1.0009	1.0009	0	2.04E+07	0.79	0.89	666	2.88E+03	0.931
PCB-73 23'5'6'-TeCB	24.67	J	1.0062	1.0062	0	6.54E+04	0.87	1.18	1.62	2.88E+03	0.706
PCB-43 22'35'-TeCB	24.77		1.0101	1.0101	0	5.45E+05	0.76	0.77	20.6	2.88E+03	1.08
PCB-69/49 23'46'/22'45'-TeCB	24.98	C	1.0181	1.0189	+1.2	1.40E+07	0.78	1.10	372	2.88E+03	0.758
PCB-48 22'45'-TeCB	25.24		1.0295	1.0296	+0.2	2.32E+06	0.73	0.91	74.5	2.88E+03	0.918
PCB-44/47/65 ...-TeCB	25.44	C	1.0384	1.0376	-1.2	1.90E+07	0.79	0.96	574	2.88E+03	0.863
PCB-59/62/75 ...-TeCB	25.73	C	1.0496	1.0494	-0.3	1.71E+06	0.77	1.25	40	2.88E+03	0.667
PCB-42 22'34'-TeCB	25.90		1.0563	1.0564	+0.2	4.20E+06	0.79	0.83	147	2.88E+03	1
PCB-41 22'34'-TeCB	26.23		1.0698	1.0699	+0.2	6.83E+05	0.76	0.73	27.3	2.88E+03	1.14
PCB-71/40 23'4'6'/22'33'-TeCB	26.33	C	1.0737	1.0739	+0.3	8.01E+06	0.80	0.93	251	2.88E+03	0.895
PCB-64 234'6'-TeCB	26.53		1.0819	1.0820	+0.2	9.49E+06	0.78	1.32	210	2.88E+03	0.632
PCB-72 23'55'-TeCB	27.24	J	0.8436	0.8434	-0.3	2.00E+05	0.71	1.29	4.52	4.99E+03	1.12
PCB-68 23'45'-TeCB	27.50		0.8515	0.8514	-0.2	1.38E+06	0.78	1.37	29.5	4.99E+03	1.05
PCB-57 233'5'-TeCB	27.87	J	0.8630	0.8628	-0.3	1.36E+05	0.75	1.23	3.22	4.99E+03	1.17
PCB-58 233'5'-TeCB	28.08	J EMPC	0.8693	0.8693	0	5.52E+04	0.64	1.26	1.28	4.99E+03	1.14
PCB-67 23'45'-TeCB	28.23		0.8741	0.8739	-0.3	4.65E+05	0.78	1.31	10.4	4.99E+03	1.1
PCB-63 234'5'-TeCB	28.46		0.8811	0.8810	-0.2	8.48E+05	0.79	1.36	18.2	4.99E+03	1.06
PCB-61/70/74/76 ...-TeCB	28.76	C	0.8902	0.8903	+0.2	2.56E+07	0.78	1.24	600	4.99E+03	1.16
PCB-66 23'44'-TeCB	29.03		0.8989	0.8987	-0.3	1.61E+07	0.80	1.17	403	4.99E+03	1.23
PCB-55 233'4'-TeCB	29.17	J	0.9034	0.9031	-0.5	2.14E+05	0.84	1.17	5.32	4.99E+03	1.22
PCB-56 233'4'-TeCB	29.61		0.9169	0.9167	-0.4	7.26E+06	0.78	1.16	182	4.99E+03	1.24
PCB-60 2344'-TeCB	29.81		0.9229	0.9227	-0.4	3.11E+06	0.83	1.18	77.1	4.99E+03	1.22
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	4.99E+03	1.05
PCB-79 33'45'-TeCB	31.46	J	0.9737	0.9738	+0.2	1.29E+05	0.77	1.38	2.73	4.99E+03	1.04
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.99E+03	1.3
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.68E+03	0.495
PCB-96 22'366'-PeCB	25.72	J EMPC	1.0134	1.0134	0	1.53E+05	0.77	1.20	5.99	1.68E+03	0.592
PCB-103 22'45'6'-PeCB	27.42	J EMPC	0.8989	0.8989	0	8.54E+04	0.74	0.95	3.2	3.06E+03	1.19
PCB-94 22'356'-PeCB	27.61	J	0.9051	0.9050	-0.2	7.35E+04	0.59	0.79	3.28	3.06E+03	1.42
PCB-95 22'35'6'-PeCB	27.99		0.9176	0.9175	-0.2	5.38E+06	0.62	0.86	220	3.06E+03	1.3

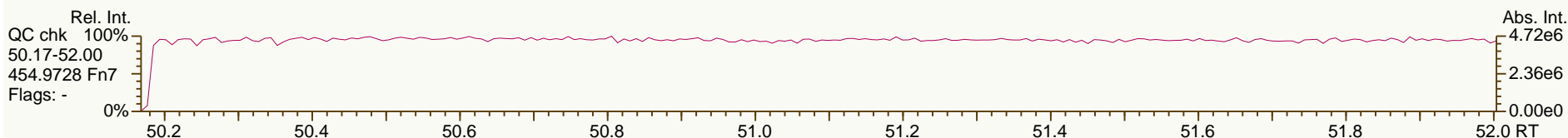
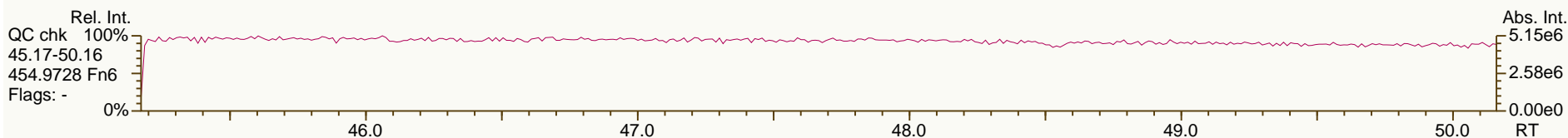
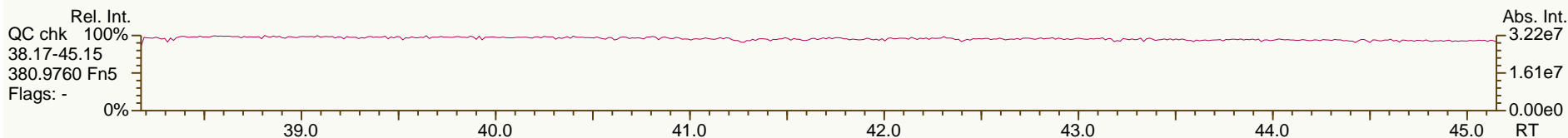
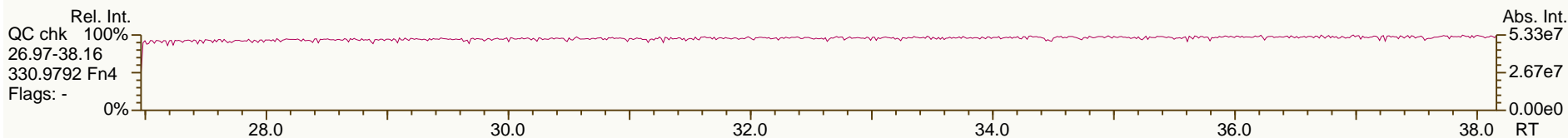
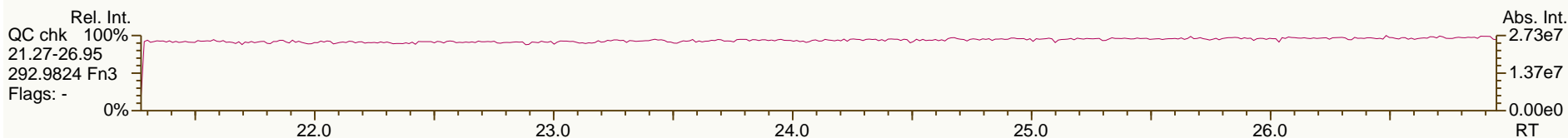
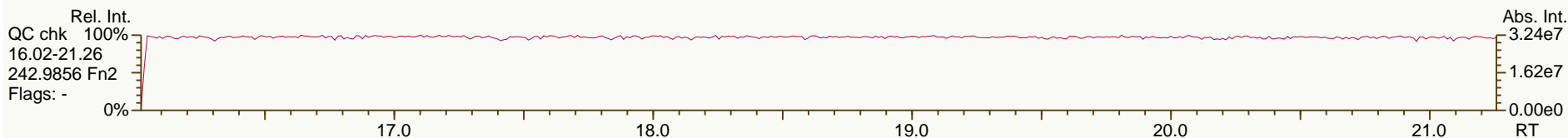
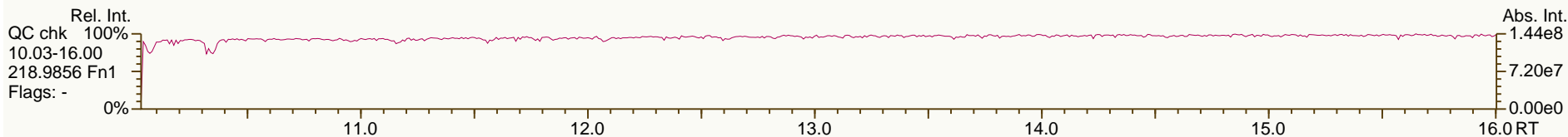
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.20	J C	0.9246	0.9245	-0.2	1.33E+05	0.62	0.88	5.39	3.06E+03	1.29
PCB-102 22'456"-PeCB	28.31		0.9282	0.9282	0	4.67E+05	0.57	1.04	15.9	3.06E+03	1.08
PCB-98 22'34'6"-PeCB	NotFnd		0.9305	-		0.00E+00		0.73	ND	3.06E+03	1.55
PCB-88 22'346"-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	3.06E+03	1.42
PCB-91 22'34'6"-PeCB	28.75		0.9424	0.9424	0	1.56E+06	0.61	0.91	60.4	3.06E+03	1.23
PCB-84 22'33'6"-PeCB	28.94		0.9487	0.9487	0	2.16E+06	0.62	0.72	106	3.06E+03	1.56
PCB-89 22'346"-PeCB	29.36	J EMPC	0.9624	0.9624	0	1.96E+05	0.72	0.76	9.09	3.06E+03	1.47
PCB-121 23'45'6"-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	3.06E+03	0.924
PCB-92 22'355"-PeCB	30.02		0.9841	0.9840	-0.2	1.23E+06	0.61	0.83	52.8	3.06E+03	1.36
PCB-113/90/101 ...-PeCB	30.53	C	0.9999	1.0007	+1.5	7.12E+06	0.63	0.98	257	3.06E+03	1.15
PCB-83 22'33'5"-PeCB	30.93		1.0142	1.0141	-0.2	4.19E+05	0.62	0.71	20.8	3.06E+03	1.58
PCB-99 22'44'5"-PeCB	31.03		1.0173	1.0174	+0.2	4.18E+06	0.62	0.91	163	3.06E+03	1.24
PCB-112 233'56"-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	3.06E+03	0.962
PCB-108/119/86/97/125...-PeCB	31.51	C	1.0320	1.0329	+1.7	5.88E+06	0.63	1.00	209	3.06E+03	1.13
PCB-117 234'56"-PeCB	32.02	J	1.0495	1.0495	0	3.06E+05	0.59	1.05	10.3	3.06E+03	1.07
PCB-116/85 23456/22'344"-PeCB	32.09	C	1.0525	1.0521	-0.8	1.78E+06	0.63	0.98	64.2	3.06E+03	1.14
PCB-110 233'4'6"-PeCB	32.22		1.0561	1.0564	+0.6	9.96E+06	0.63	1.12	316	3.06E+03	1.01
PCB-115 2344'6"-PeCB	32.32	J	1.0590	1.0596	+1.2	1.82E+05	0.55	1.15	5.63	3.06E+03	0.983
PCB-82 22'33'4"-PeCB	32.51		1.0655	1.0656	+0.2	9.95E+05	0.67	0.69	50.9	3.06E+03	1.63
PCB-111 233'55"-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	3.06E+03	0.935
PCB-120 23'455"-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.06E+03	0.921
PCB-107/124 ...-PeCB	34.19	J C	0.9916	0.9917	+0.2	3.02E+05	0.68	1.10	9.76	3.06E+03	1.03
PCB-109 233'46"-PeCB	34.39		0.9976	0.9977	+0.2	6.13E+05	0.61	1.24	17.5	3.06E+03	0.908
PCB-106 233'45"-PeCB	NotFnd		1.0038	-		0.00E+00		1.08	ND	3.06E+03	1.05
PCB-122 233'4'5"-PeCB	35.07	J	1.0091	1.0090	-0.2	1.16E+05	0.68	1.00	3.94	3.06E+03	1.07
PCB-127 33'455"-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	3.06E+03	0.95
PCB-155 22'44'66"-HxCB	30.36	J EMPC	1.0007	1.0008	+0.2	2.66E+04	0.81	1.26	0.733	1.25E+03	0.355
PCB-152 22'3566"-HxCB	NotFnd		1.0060	-		0.00E+00		1.11	ND	1.25E+03	0.405
PCB-150 22'34'66"-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.25E+03	0.399
PCB-136 22'33'66"-HxCB	30.97		1.0207	1.0208	+0.2	5.09E+05	1.29	1.03	17.3	1.25E+03	0.436
PCB-145 22'3466"-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.25E+03	0.426
PCB-148 22'34'56"-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.25E+03	0.536
PCB-151/135 ...-HxCB	33.02	C	1.0886	1.0886	0	7.94E+05	1.23	1.06	35.8	1.25E+03	0.566
PCB-154 22'44'56"-HxCB	33.24	J	1.0954	1.0956	+0.4	3.83E+04	1.36	1.25	1.48	1.25E+03	0.483
PCB-144 22'345'6"-HxCB	33.51	J	1.1041	1.1045	+0.8	1.18E+05	1.26	1.10	5.12	1.25E+03	0.547
PCB-147/149 ...-HxCB	33.80	C	1.1141	1.1142	+0.2	2.03E+06	1.23	1.11	88.2	1.25E+03	0.545
PCB-134 22'33'56"-HxCB	33.99	J	1.1199	1.1204	+1.0	1.48E+05	1.21	0.79	9.02	1.25E+03	0.766
PCB-143 22'3456"-HxCB	NotFnd		1.1225	-		0.00E+00		1.10	ND	1.25E+03	0.546
PCB-139/140 ...-HxCB	34.32	J C	1.1312	1.1314	+0.4	6.55E+04	1.42	1.11	2.83	1.25E+03	0.543
PCB-131 22'33'46"-HxCB	34.49	J EMPC	1.1369	1.1370	+0.2	3.98E+04	1.63	0.94	2.03	1.25E+03	0.641
PCB-142 22'3456"-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.25E+03	0.651
PCB-132 22'33'46"-HxCB	34.88		1.1494	1.1497	+0.6	9.02E+05	1.26	0.97	44.7	1.25E+03	0.621
PCB-133 22'33'55"-HxCB	35.28	J	1.1626	1.1629	+0.6	3.28E+04	1.20	1.04	1.51	1.25E+03	0.577
PCB-165 233'55'6"-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.25E+03	0.461
PCB-146 22'34'55"-HxCB	35.84		0.9582	0.9581	-0.2	4.27E+05	1.29	1.14	18	1.25E+03	0.529
PCB-161 233'45'6"-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.25E+03	0.425
PCB-153/168 ...-HxCB	36.36	C	0.9728	0.9722	-1.3	2.50E+06	1.27	1.39	86.5	1.25E+03	0.434
PCB-141 22'3455"-HxCB	36.53		0.9766	0.9766	0	4.15E+05	1.26	1.03	19.3	1.25E+03	0.583

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.87	J	0.9859	0.9859	0	1.70E+05	1.07	0.92	8.89	1.25E+03	0.656
PCB-137 22'344'5'-HxCB	37.07	J	0.9911	0.9911	0	1.57E+05	1.40	1.14	6.64	1.25E+03	0.531
PCB-164 233'4'5'6'-HxCB	37.15	J	0.9933	0.9932	-0.2	2.65E+05	1.16	1.38	9.2	1.25E+03	0.437
PCB-163/138/129 ...-HxCB	37.43	C	1.0011	1.0007	-0.9	3.16E+06	1.27	1.11	136	1.25E+03	0.542
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.25E+03	0.463
PCB-158 233'44'6'-HxCB	37.76		1.0096	1.0096	0	4.00E+05	1.11	1.50	12.8	1.25E+03	0.403
PCB-128/166 ...-HxCB	38.51	C	0.9641	0.9642	+0.2	5.03E+05	1.29	0.89	21.1	1.73E+03	0.76
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.07	ND	1.73E+03	0.633
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.73E+03	0.638
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.22E+03	0.466
PCB-179 22'33'566'-HpCB	35.52	J	1.0086	1.0087	+0.2	2.00E+05	0.95	1.08	8.93	1.22E+03	0.547
PCB-184 22'344'66'-HpCB	35.97	J	1.0216	1.0215	-0.2	4.77E+04	1.20	1.03	2.25	1.22E+03	0.576
PCB-176 22'33'466'-HpCB	36.27	J	1.0300	1.0300	0	5.36E+04	0.94	1.14	2.28	1.22E+03	0.519
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.22E+03	0.553
PCB-178 22'33'55'6'-HpCB	37.79	J	1.0733	1.0733	0	6.13E+04	1.12	0.76	3.91	1.22E+03	0.78
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.08	ND	1.70E+03	0.867
PCB-187 22'34'55'6'-HpCB	38.57		1.0952	1.0953	+0.2	5.04E+05	1.03	1.15	23.5	1.70E+03	0.815
PCB-182 22'344'56'6'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.70E+03	0.787
PCB-183 22'344'5'6'-HpCB	39.09		1.1101	1.1101	0	2.42E+05	1.07	1.22	10.6	1.70E+03	0.767
PCB-185 22'3455'6'-HpCB	39.16	J	1.1125	1.1122	-0.7	3.72E+04	1.13	1.03	1.93	1.70E+03	0.907
PCB-174 22'33'456'-HpCB	39.29		1.1156	1.1157	+0.2	3.57E+05	1.14	0.98	19.5	1.70E+03	0.954
PCB-177 22'33'45'6'-HpCB	39.66		1.1262	1.1263	+0.2	1.90E+05	1.19	0.95	10.7	1.70E+03	0.99
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.70E+03	0.876
PCB-171/173 ...-HpCB	40.20	J C	1.1413	1.1417	+1.0	1.08E+05	1.08	0.95	6.1	1.70E+03	0.99
PCB-172 22'33'455'-HpCB	41.54	J	0.9080	0.9078	-0.5	4.83E+04	1.04	0.97	2.66	1.70E+03	0.965
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.70E+03	0.742
PCB-180/193 ...-HpCB	42.10	C	0.9194	0.9200	+1.5	8.42E+05	1.06	1.24	36.3	1.70E+03	0.755
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.70E+03	0.694
PCB-170 22'33'44'5'-HpCB	43.17		0.9434	0.9434	0	3.04E+05	1.14	1.14	17.2	1.70E+03	0.981
PCB-190 233'44'56-HpCB	43.62	J EMPC	0.9533	0.9533	0	7.46E+04	1.33	1.56	3.08	1.70E+03	0.716
PCB-202 22'33'55'66'-OoCB	39.78	J	1.0005	1.0007	+0.5	6.00E+04	0.82	1.05	2.89	1.45E+03	0.696
PCB-201 22'33'45'66'-OoCB	40.54	J	1.0203	1.0200	-0.7	3.30E+04	0.86	1.13	1.47	1.45E+03	0.646
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.45E+03	0.694
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.13	ND	1.45E+03	0.648
PCB-200 22'33'4566'-OoCB	41.41	J	1.0418	1.0417	-0.2	2.26E+04	0.99	1.07	1.07	1.45E+03	0.682
PCB-198/199 ...-OoCB	43.75	J C	1.1001	1.1007	+1.6	1.41E+05	0.93	0.72	9.96	1.45E+03	1.02
PCB-196 22'33'44'56'-OoCB	44.30	J EMPC	1.1146	1.1146	0	5.02E+04	1.11	0.76	3.34	1.45E+03	0.958
PCB-203 22'344'55'6'-OoCB	44.48	J	1.1188	1.1190	+0.5	7.82E+04	0.92	0.77	5.14	1.45E+03	0.949
PCB-195 22'33'44'56'-OoCB	45.60	J EMPC	0.9516	0.9517	+0.3	2.64E+04	1.37	0.80	2.18	1.39E+03	1.24
PCB-194 22'33'44'55'-OoCB	47.54	J	0.9921	0.9921	0	8.65E+04	0.86	0.85	6.68	1.39E+03	1.16
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.39E+03	0.93
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.74E+03	1.51
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.13	ND	2.74E+03	1.49
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.74E+03	2.55

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Instr: AutoSpec-Premier MM7

Sample ID: PB089-1SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 54

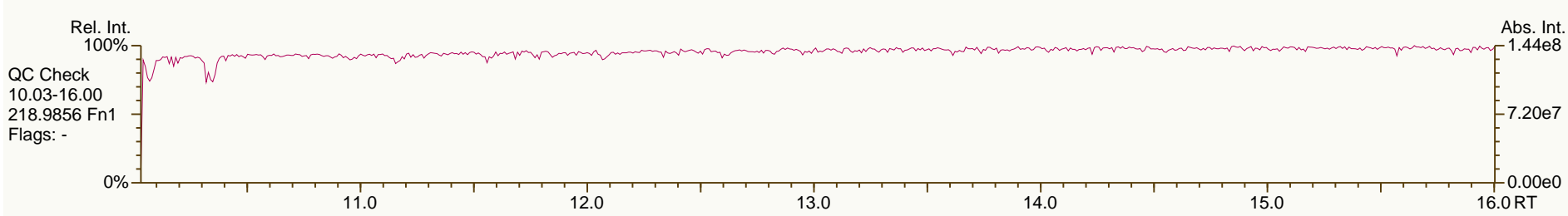
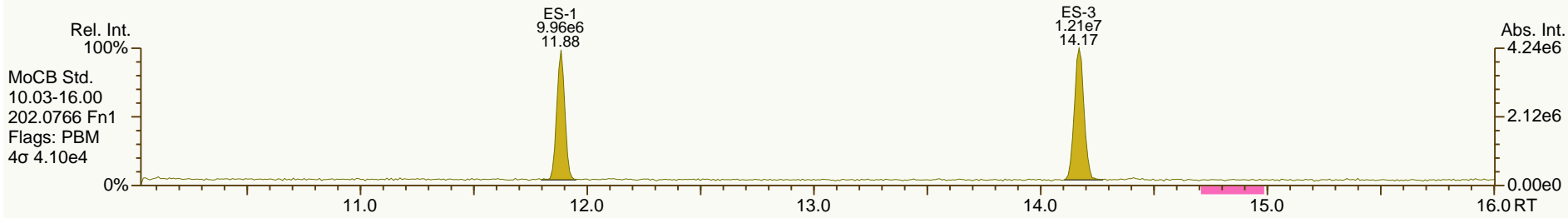
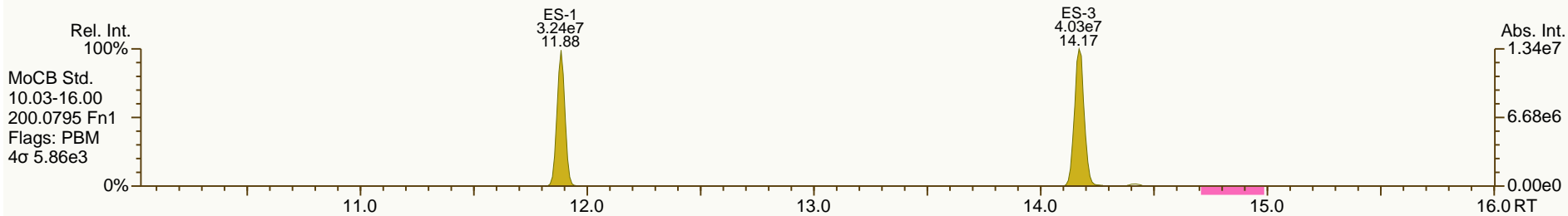
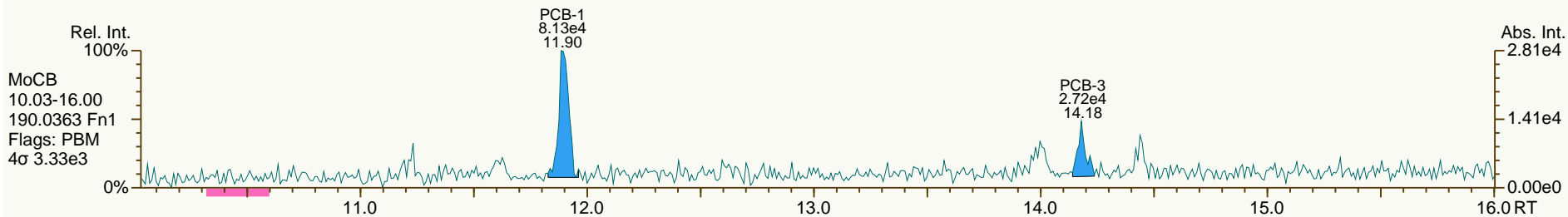
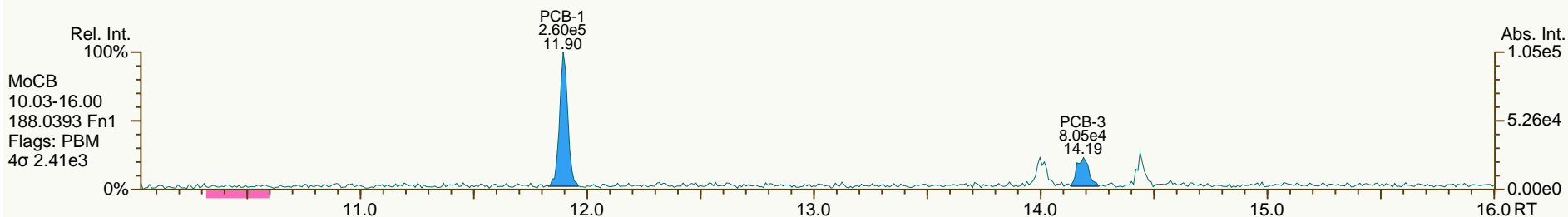
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 Instr: AutoSpec-Premier MM7

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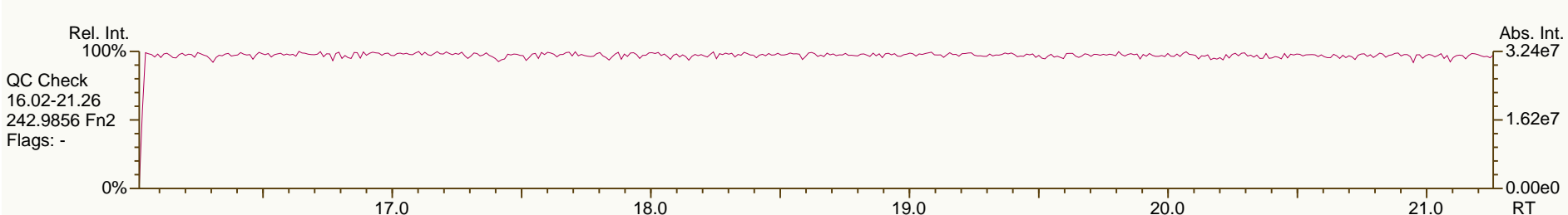
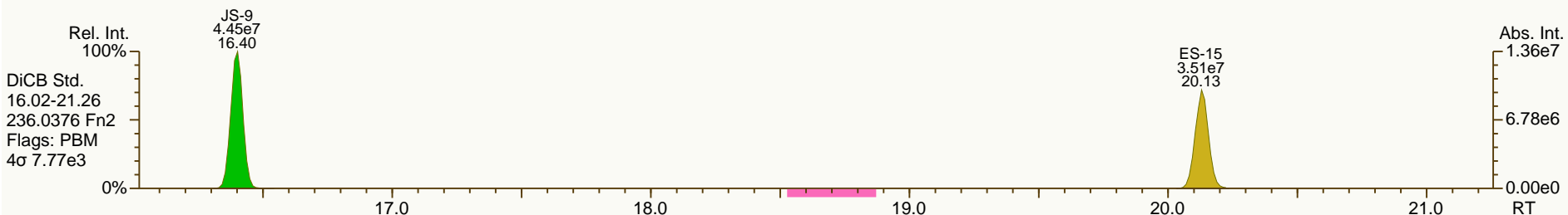
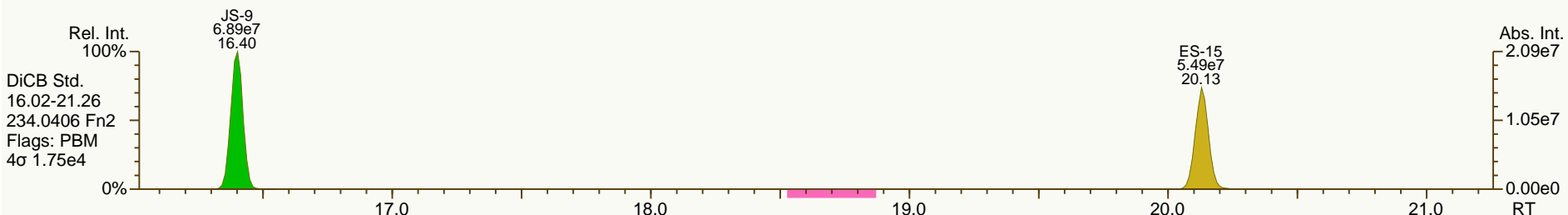
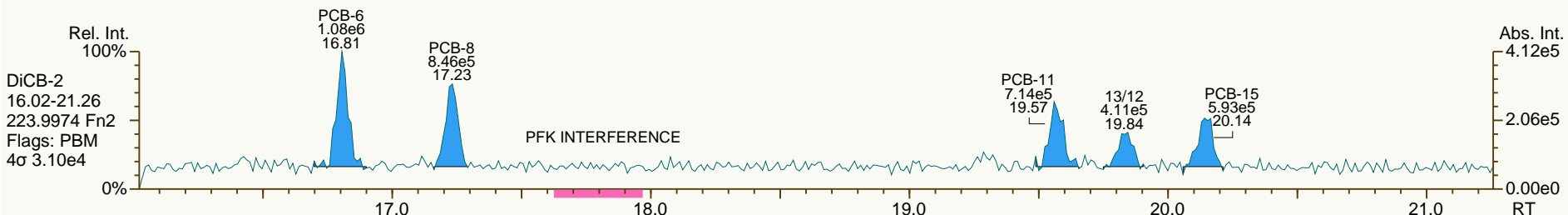
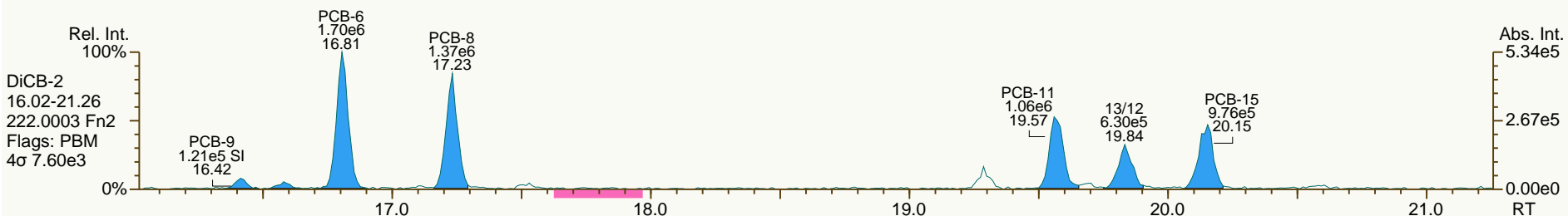
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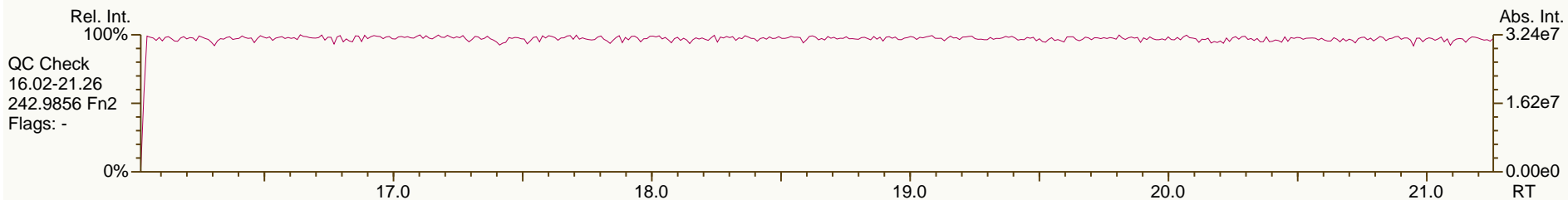
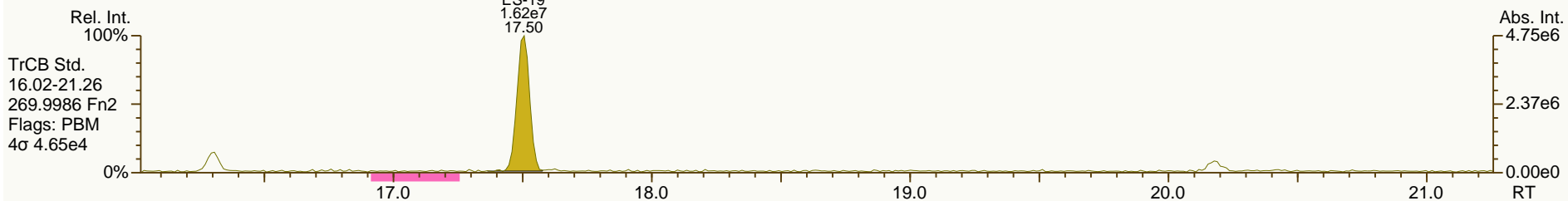
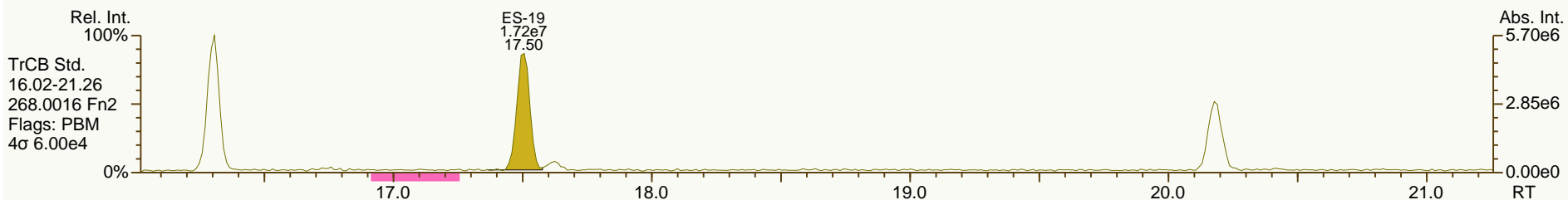
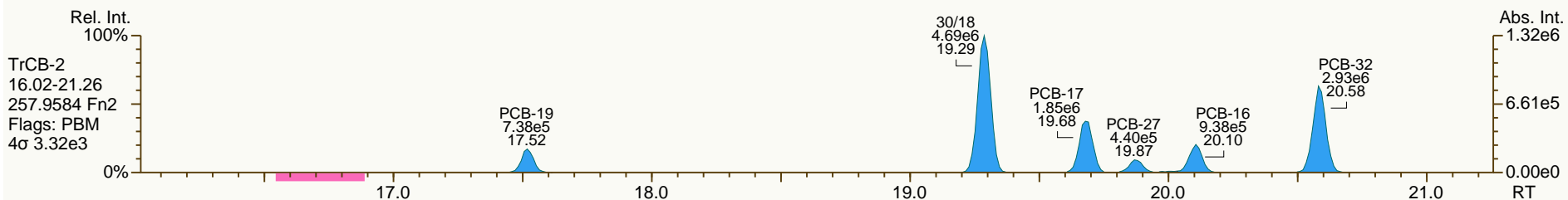
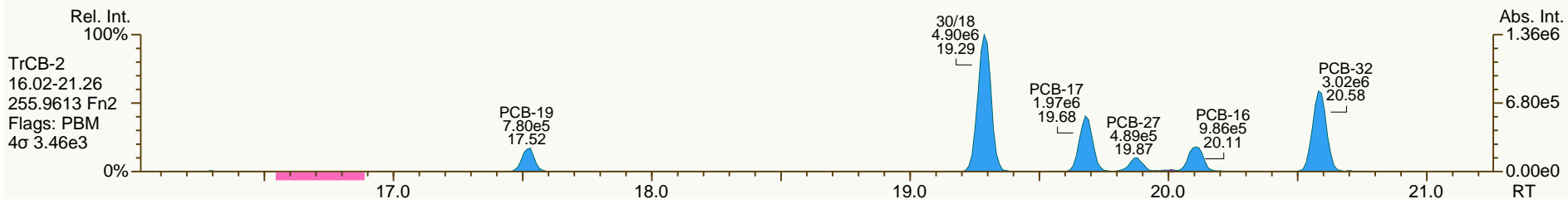
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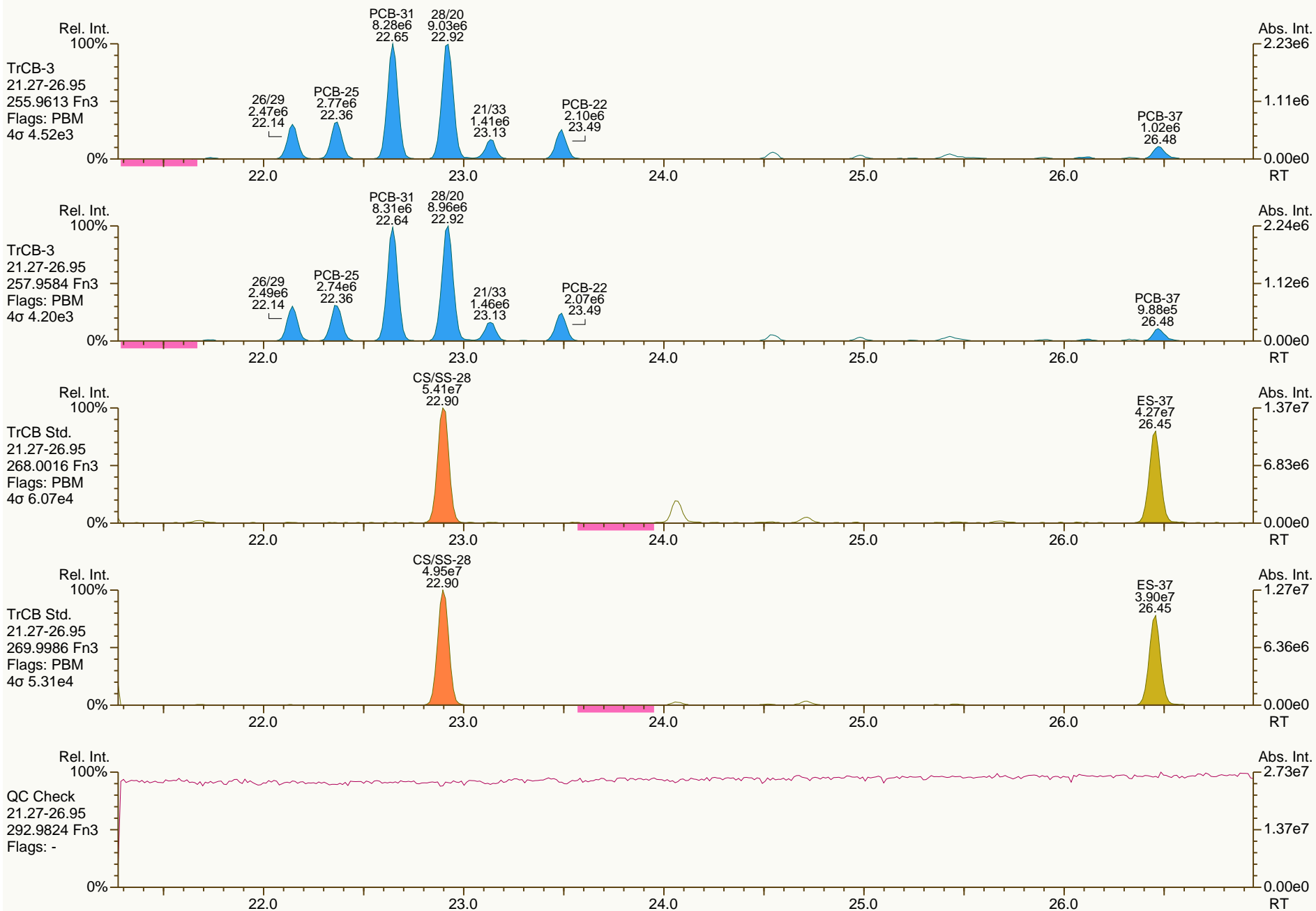




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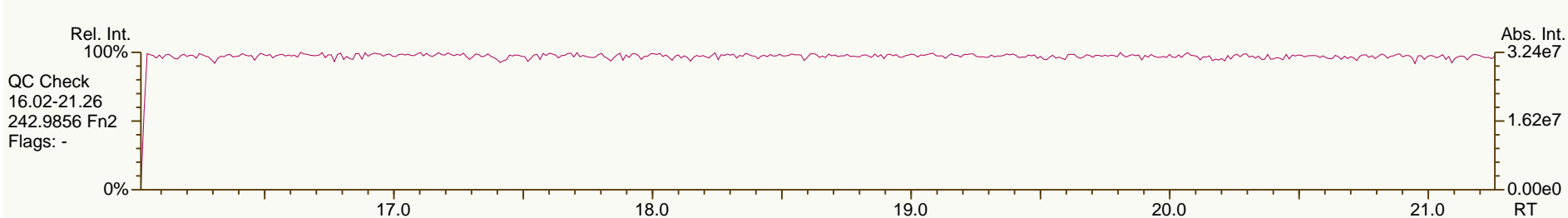
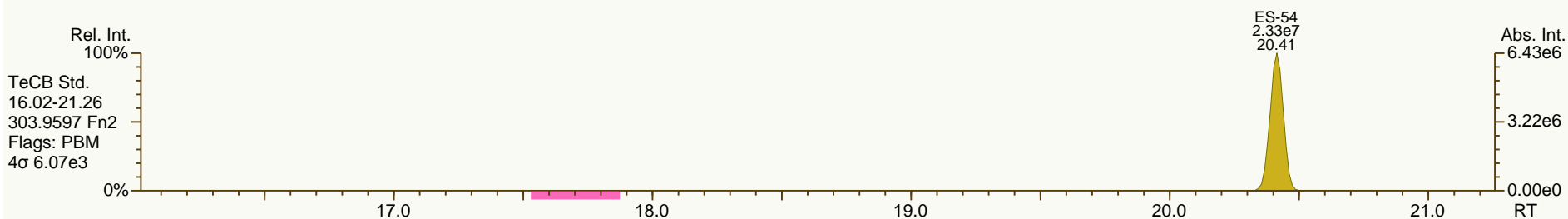
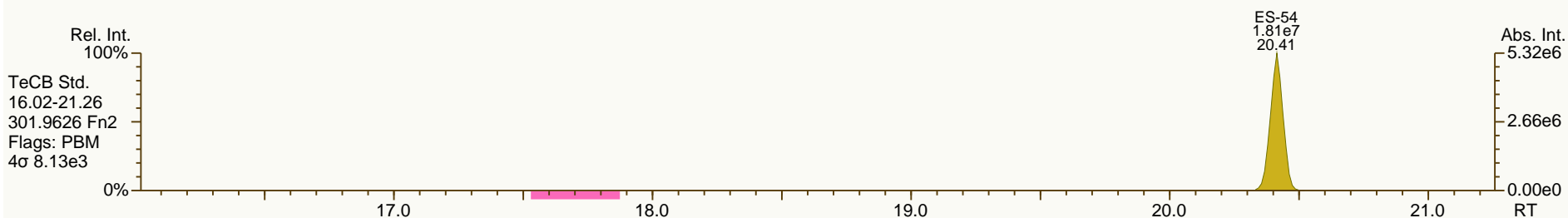
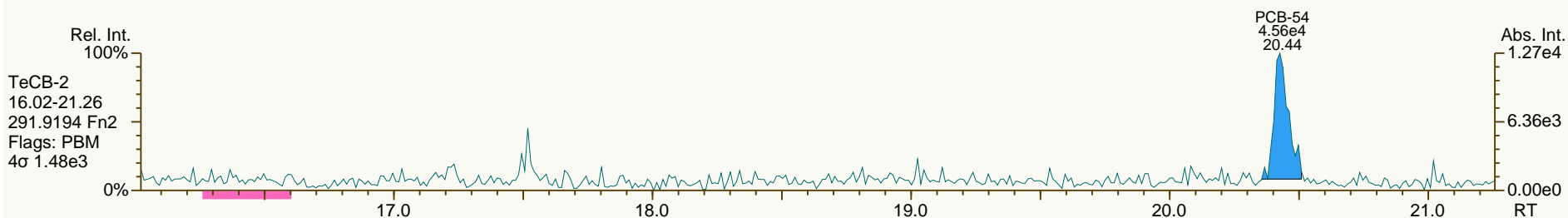
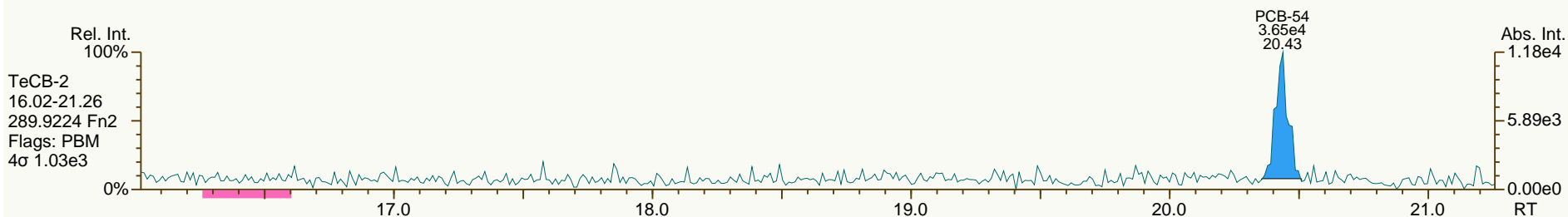
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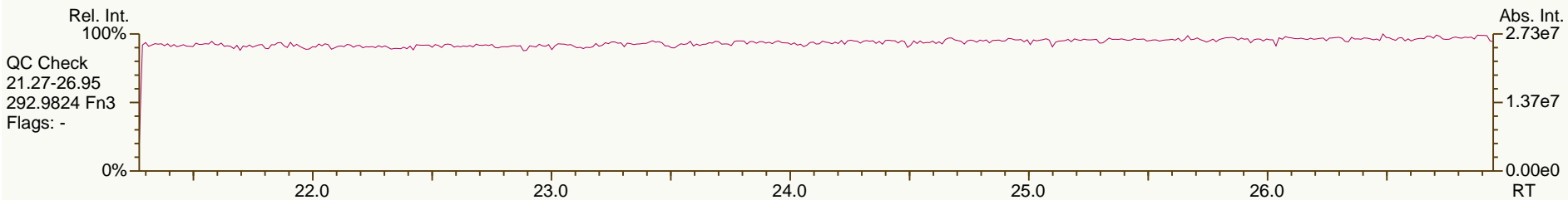
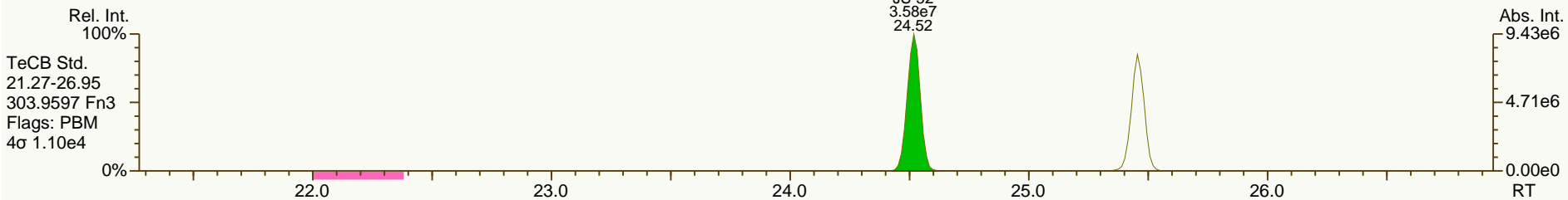
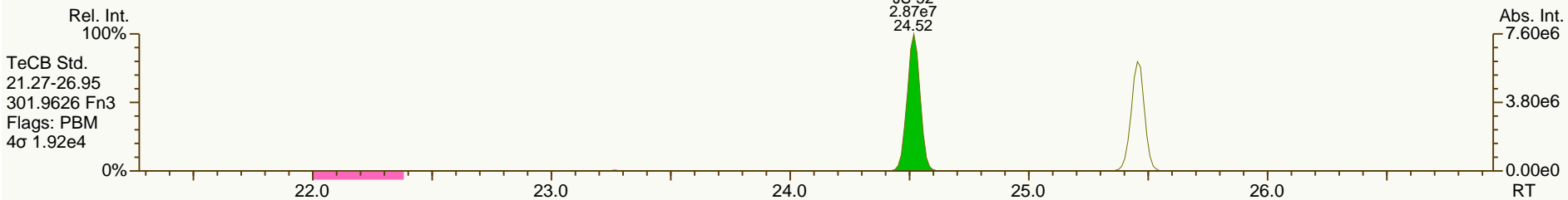
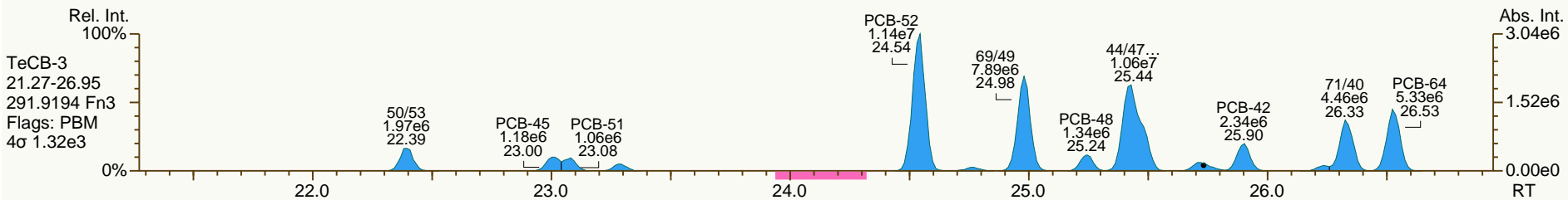
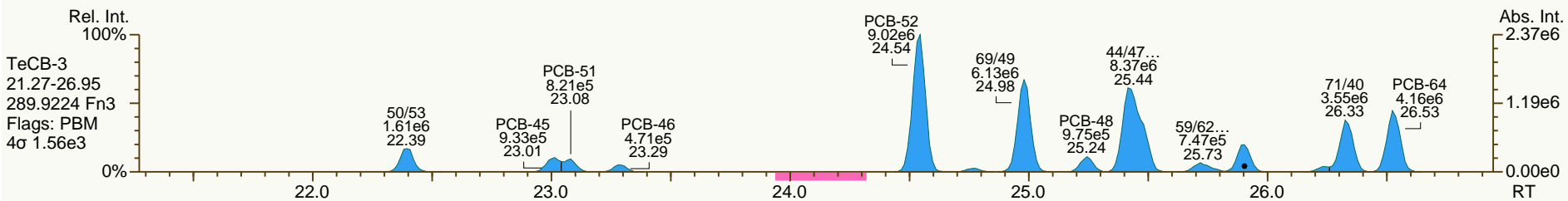
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SGS-AP ID: A6506\_11899\_PCB\_006  
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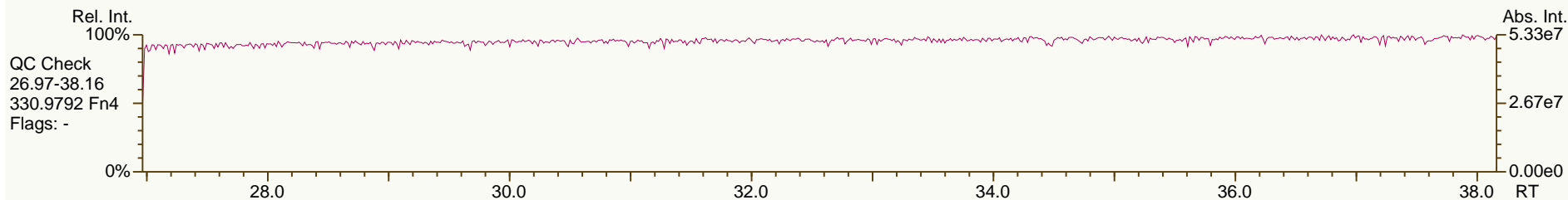
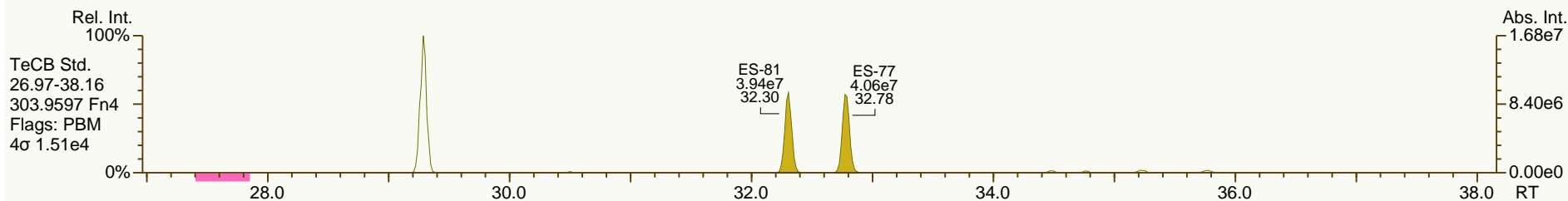
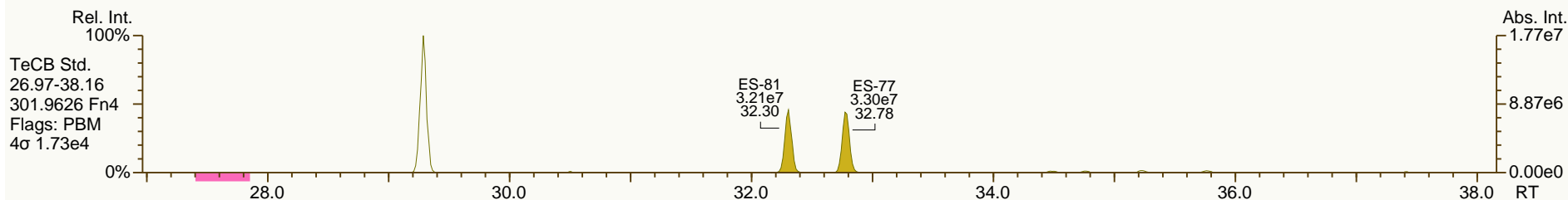
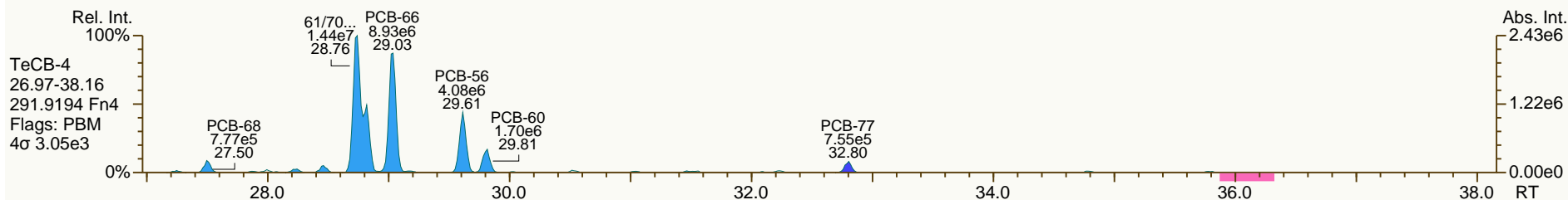
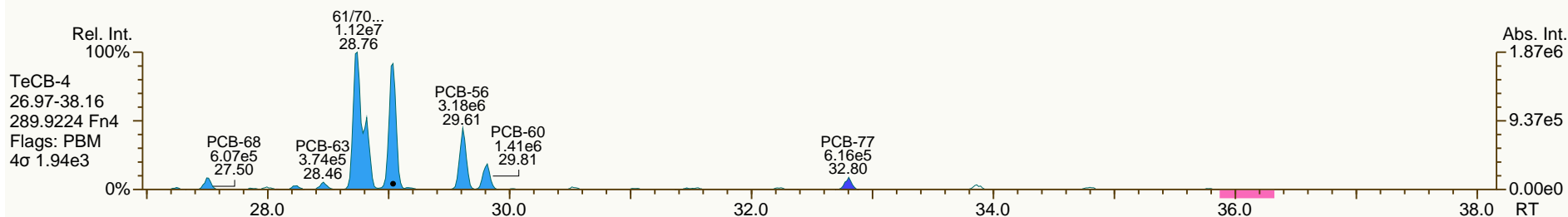
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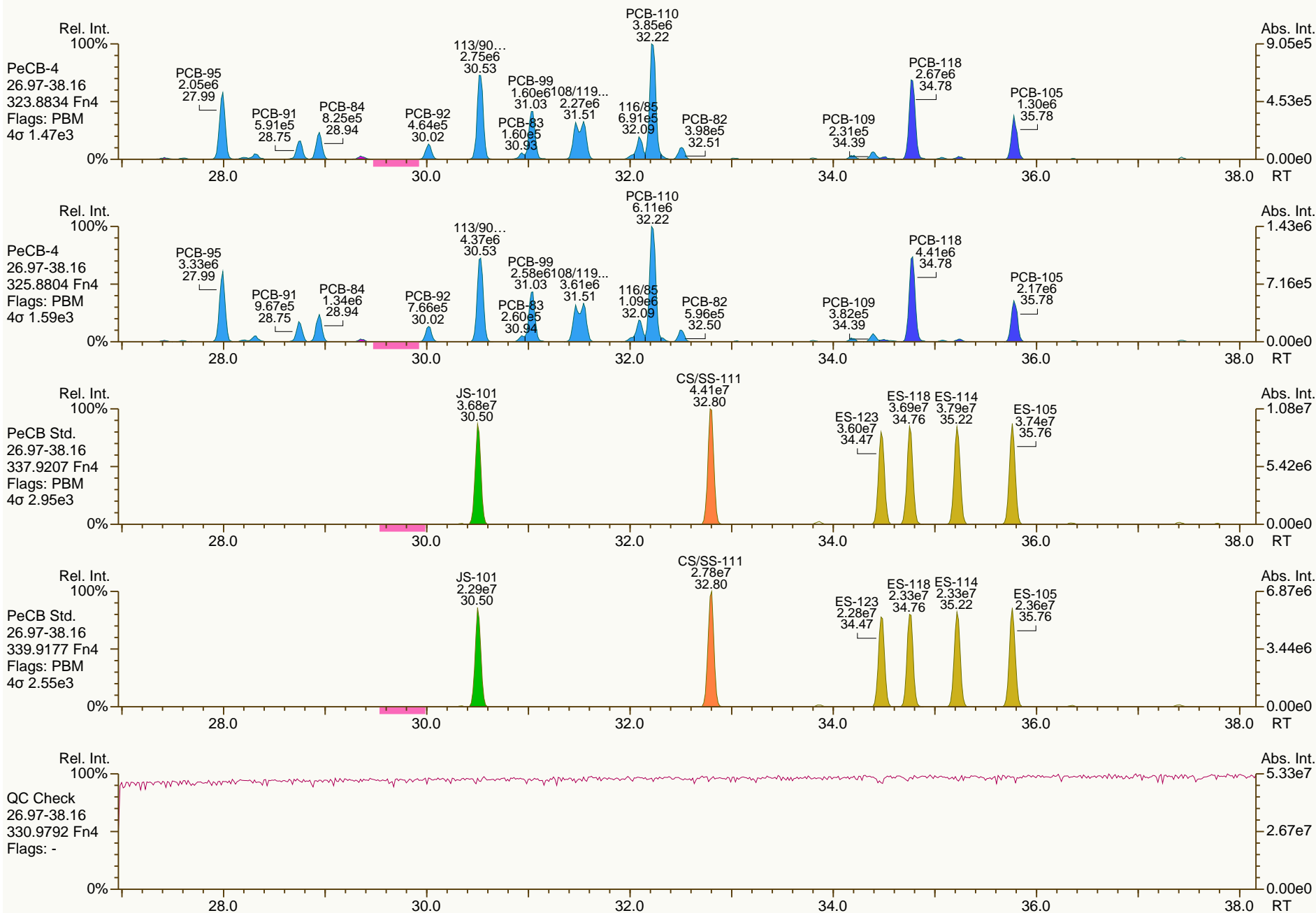
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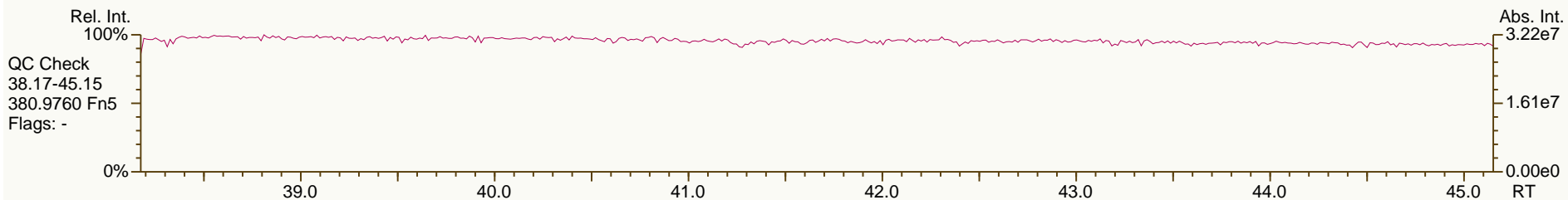
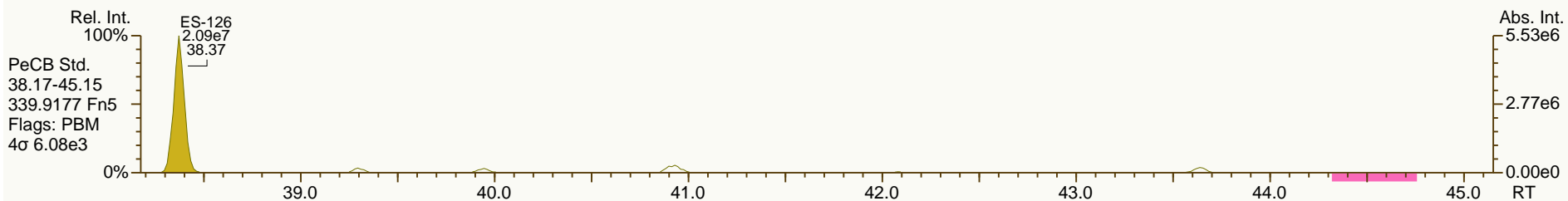
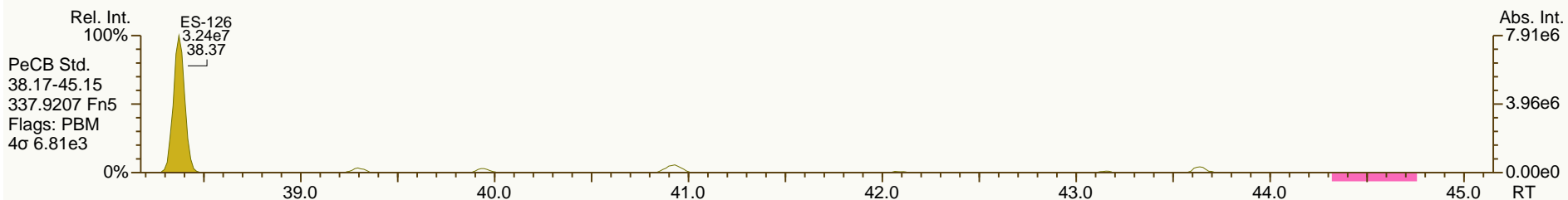
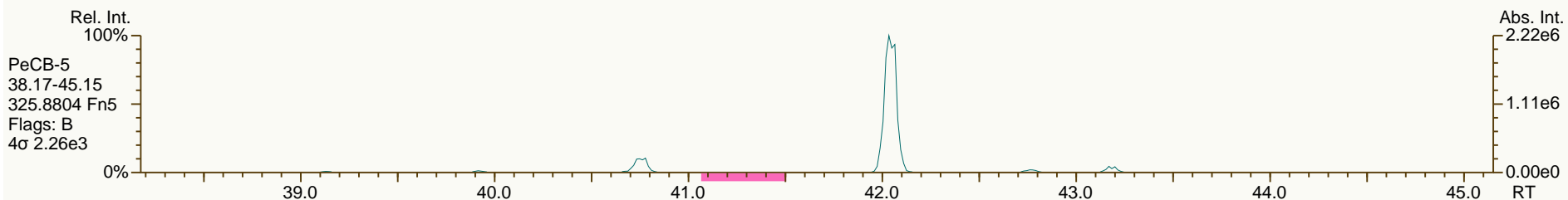
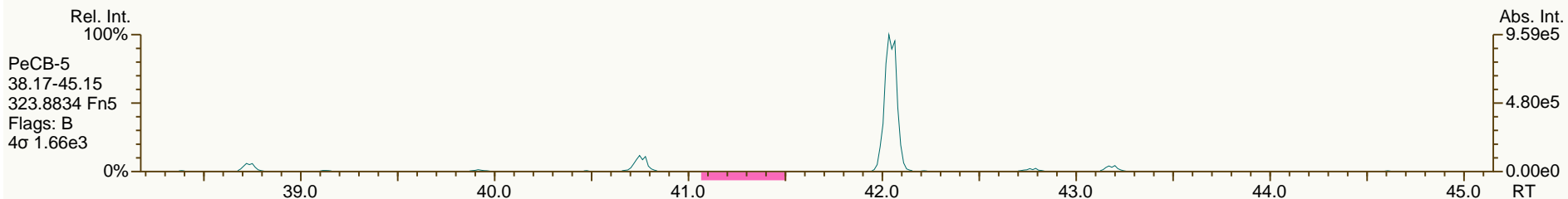
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SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

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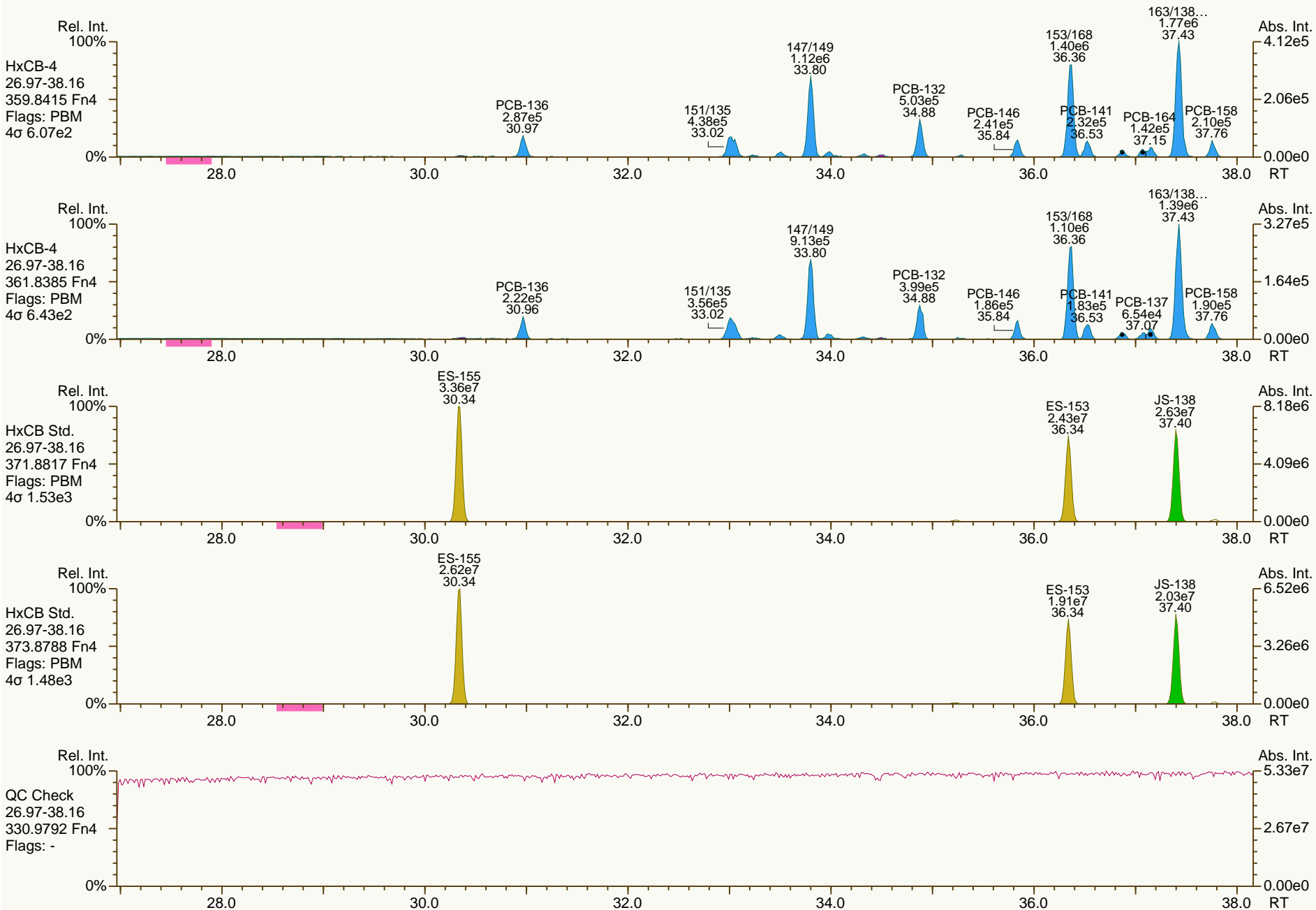
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SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

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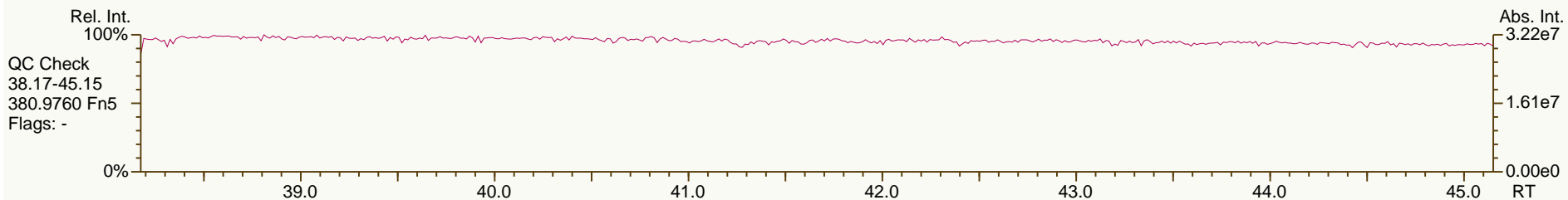
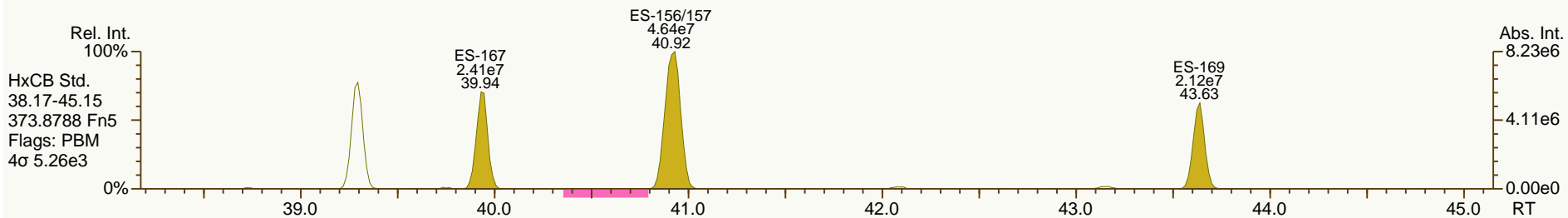
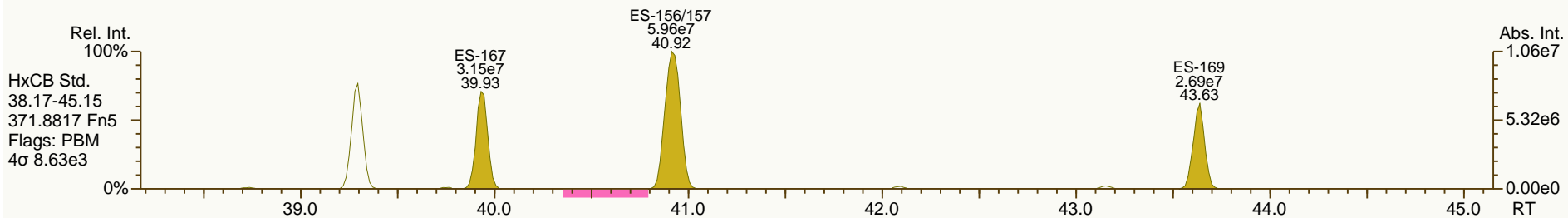
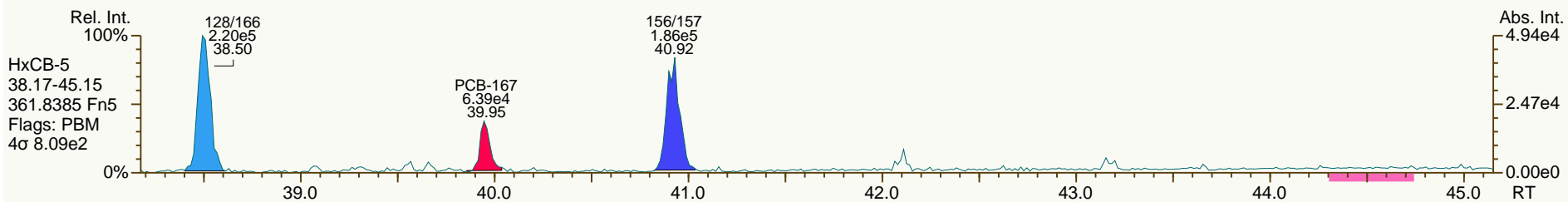
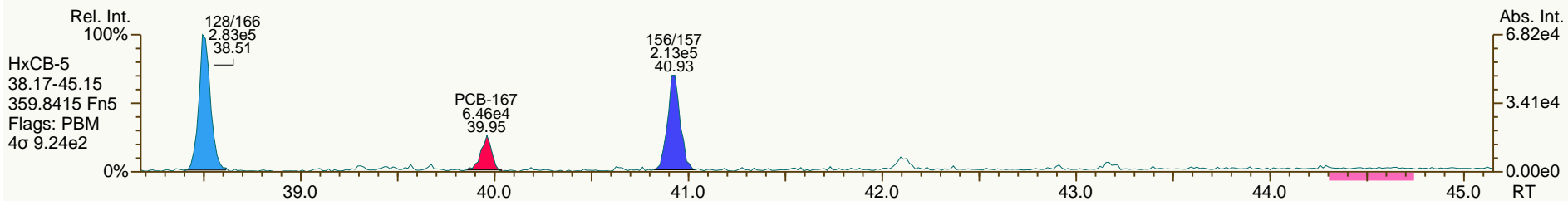




SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

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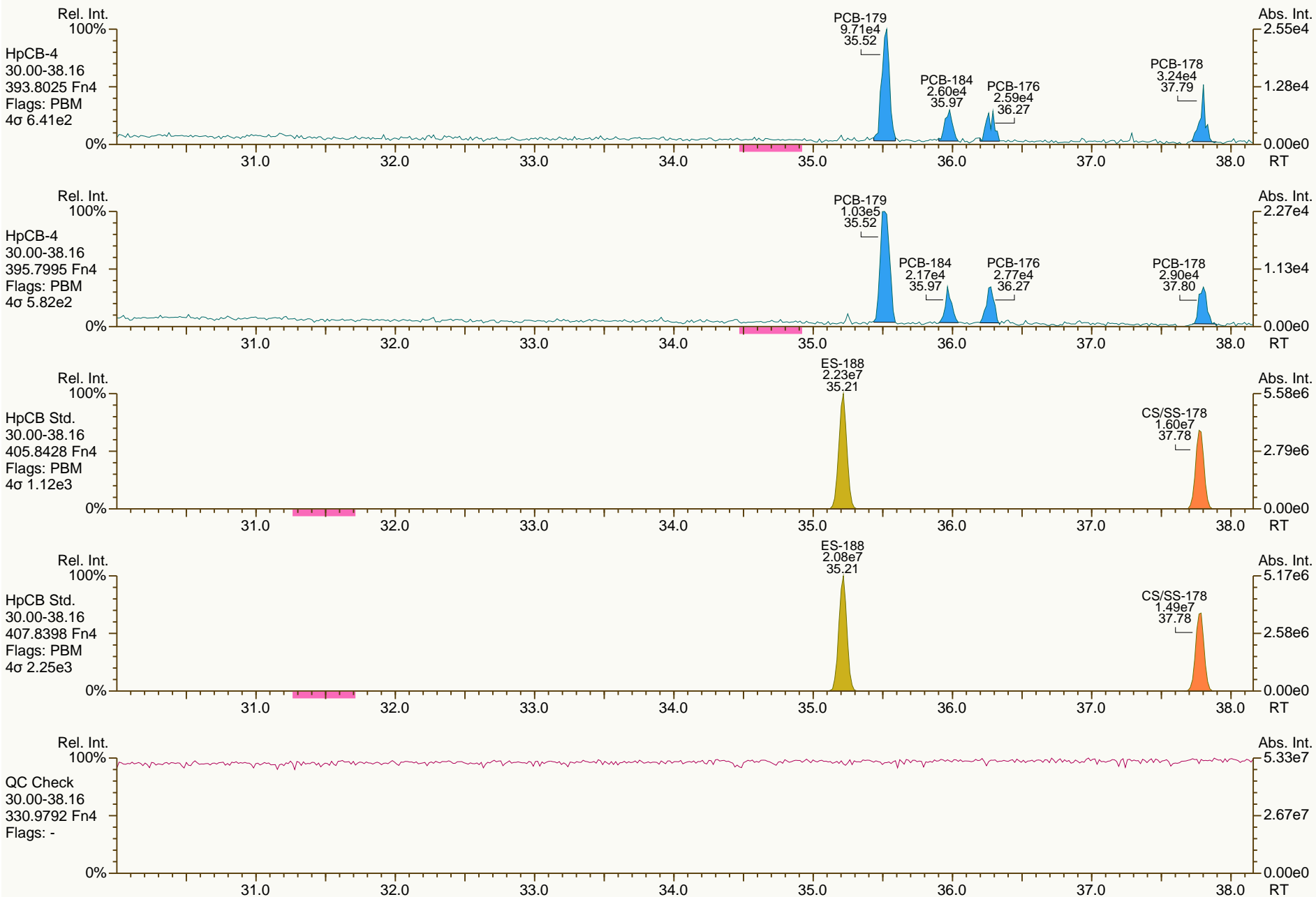
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SGS-AP ID: A6506\_11899\_PCB\_006  
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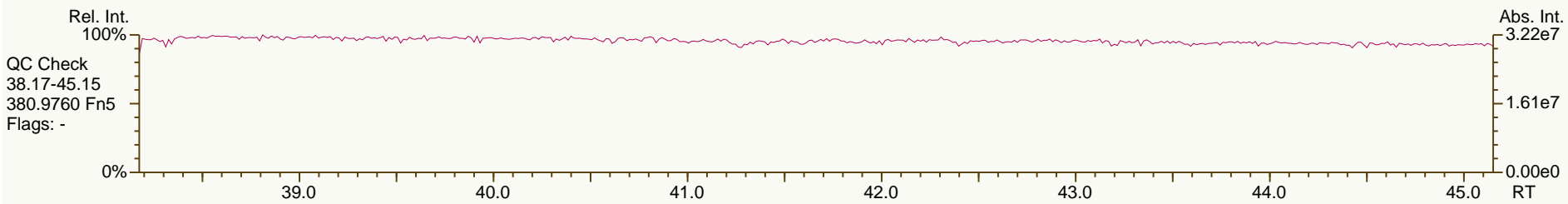
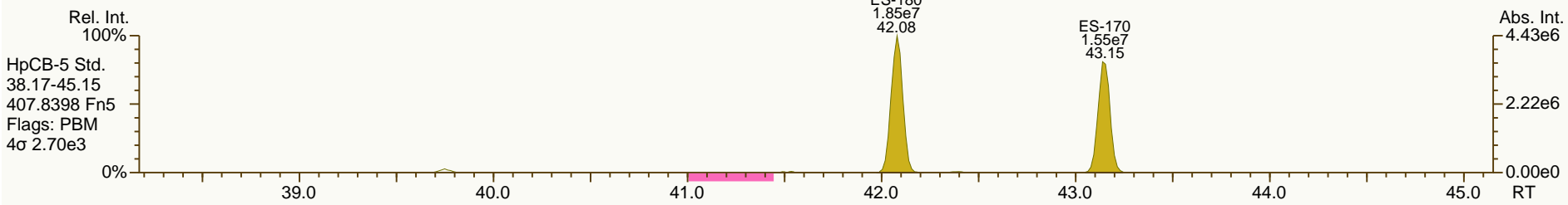
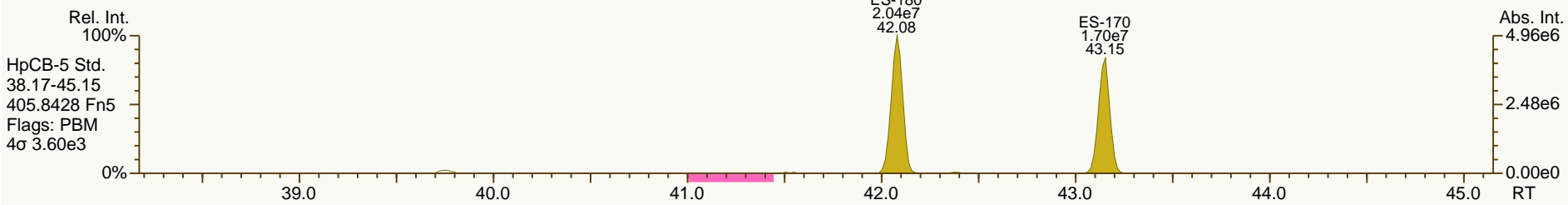
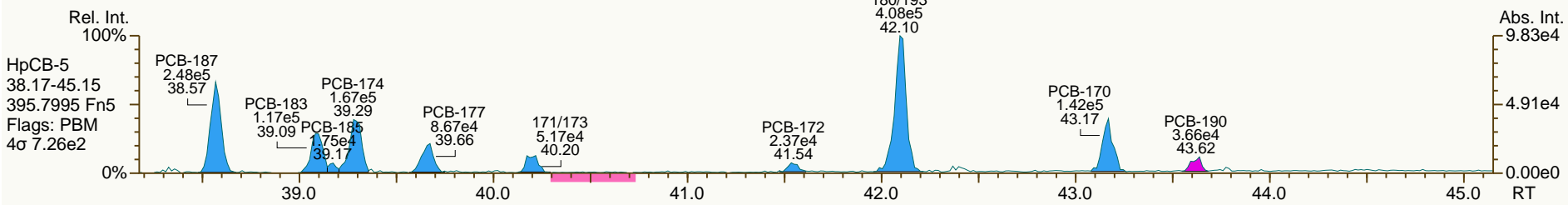
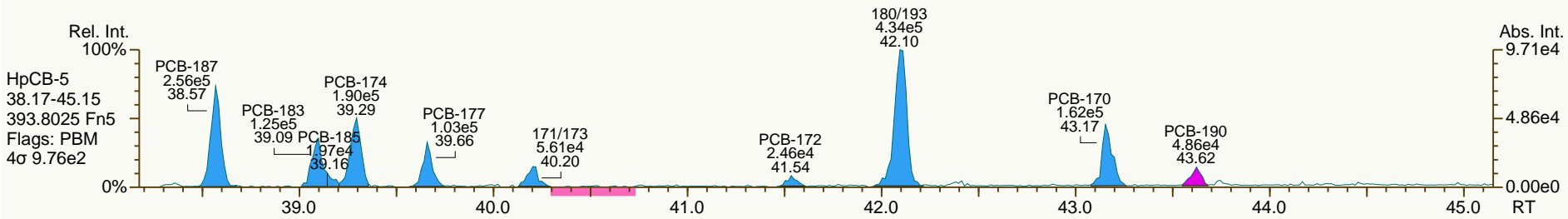
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SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

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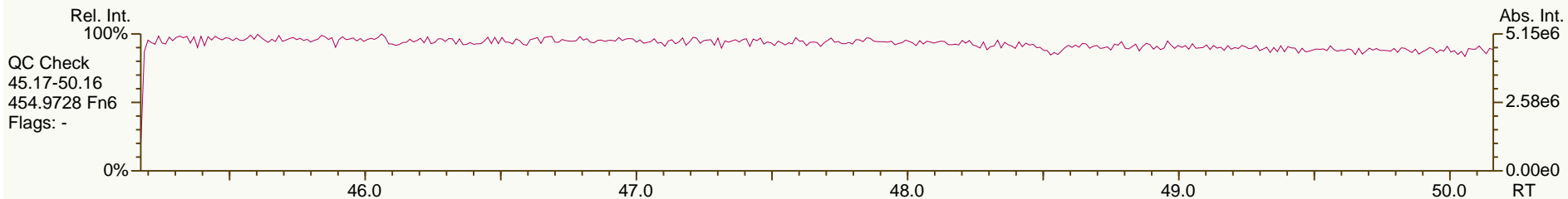
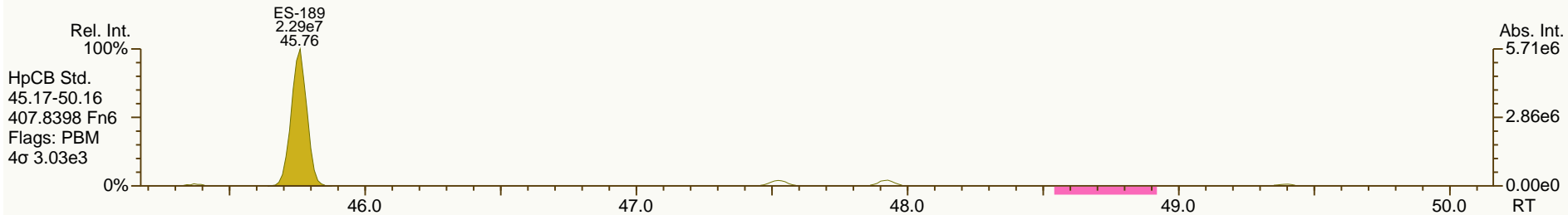
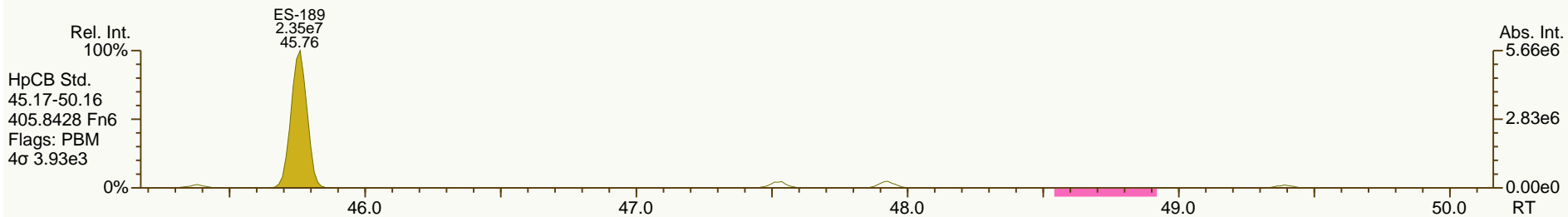
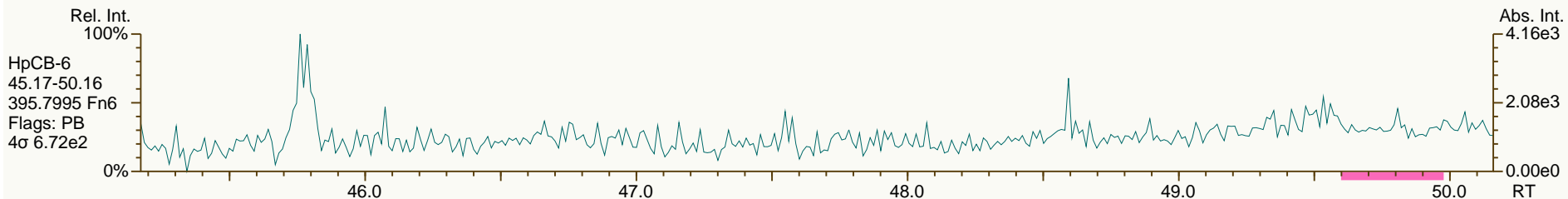
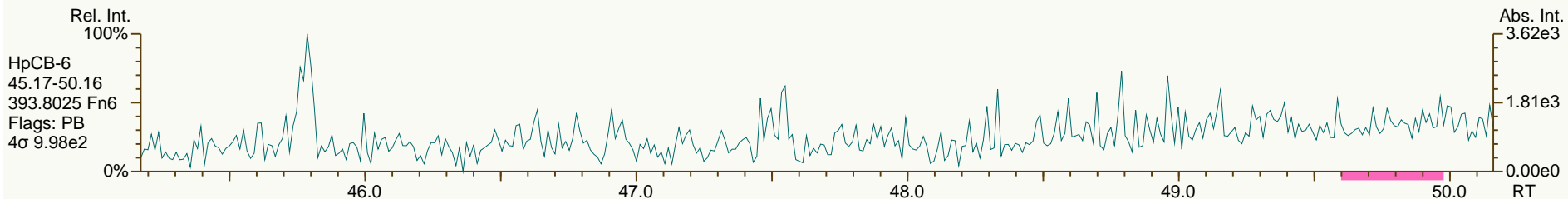
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SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

Sample ID: PB089-1SWMID-140314-N (TOTAL)  
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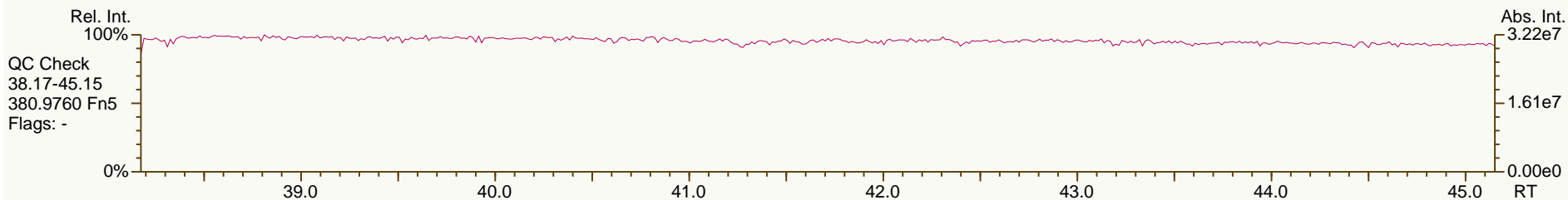
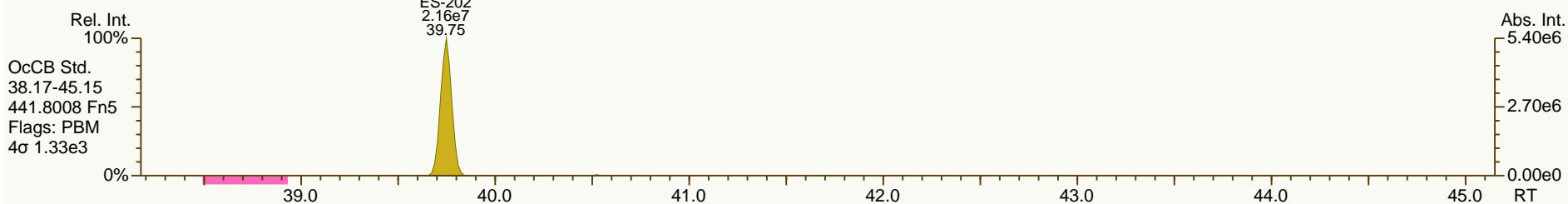
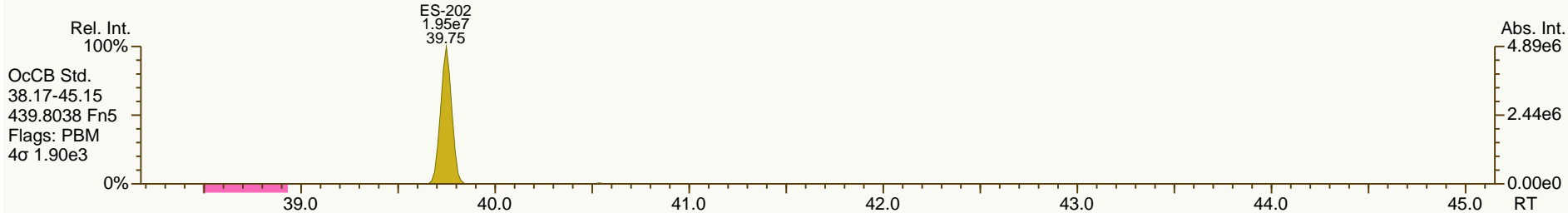
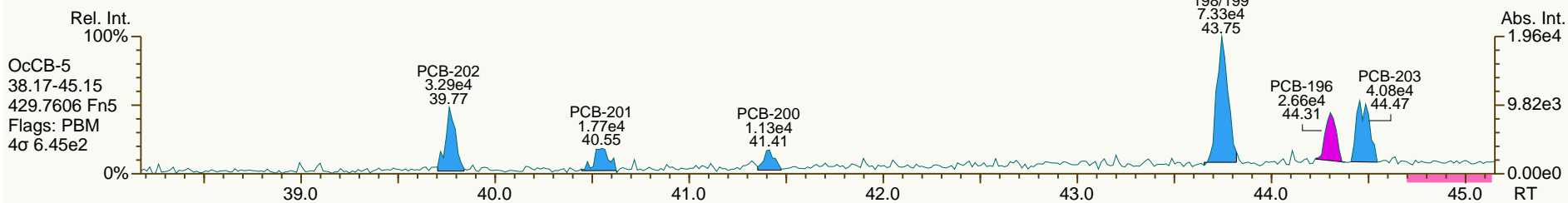
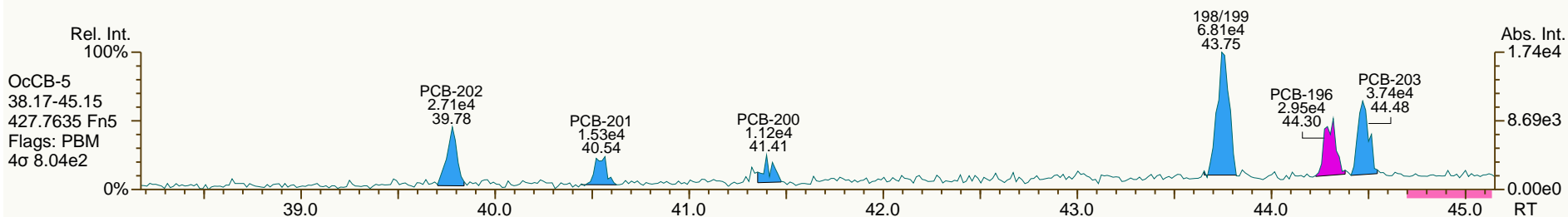
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SGS-AP ID: A6506\_11899\_PCB\_006  
Instr: AutoSpec-Premier MM7

Sample ID: PB089-1SWMID-140314-N (TOTAL)  
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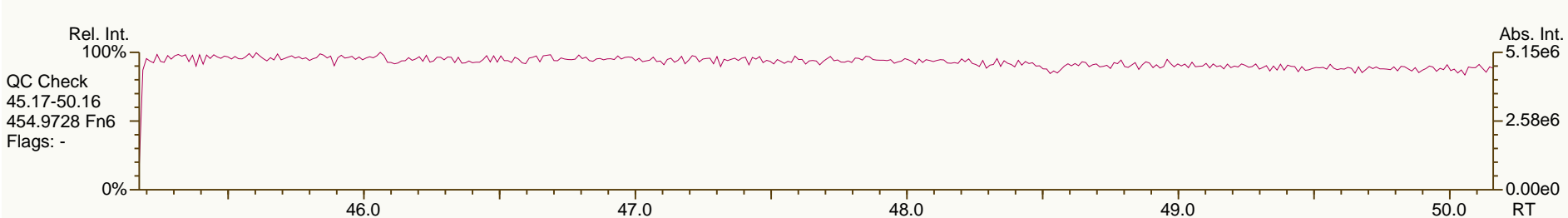
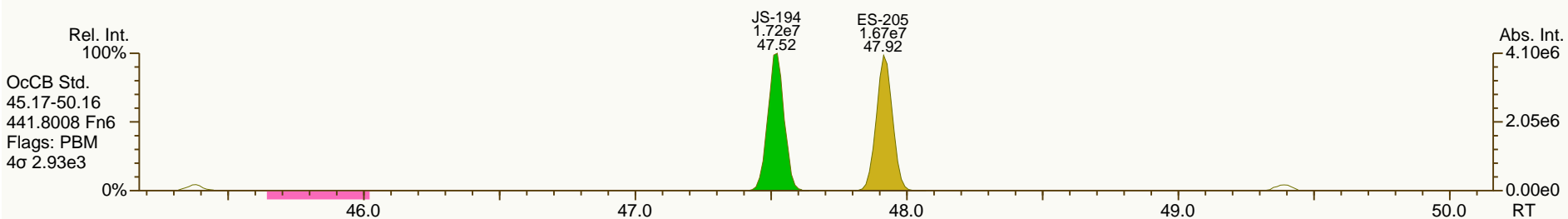
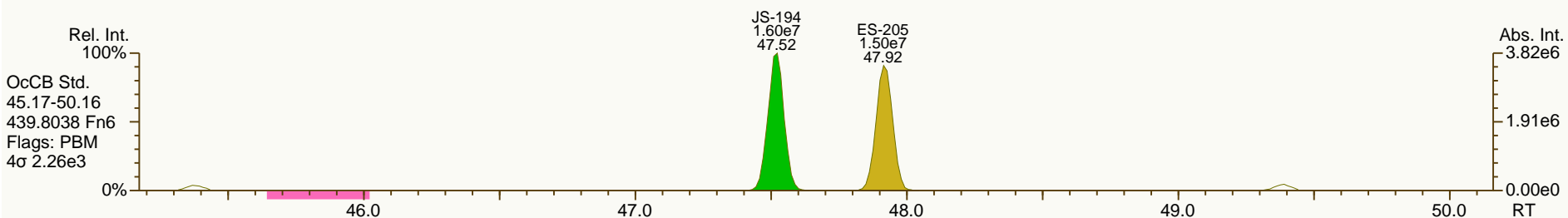
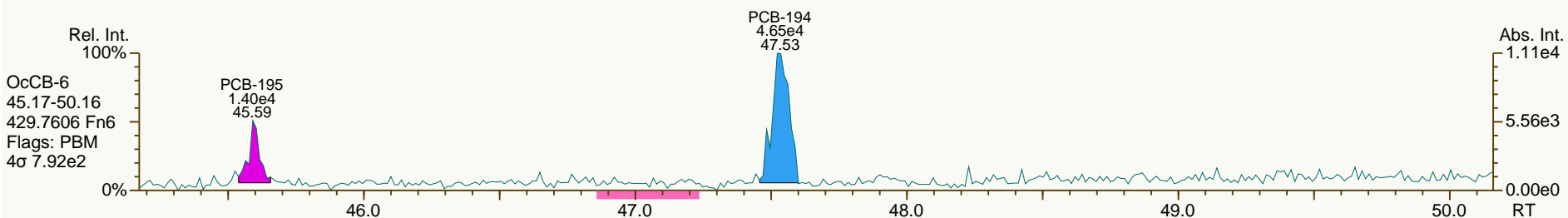
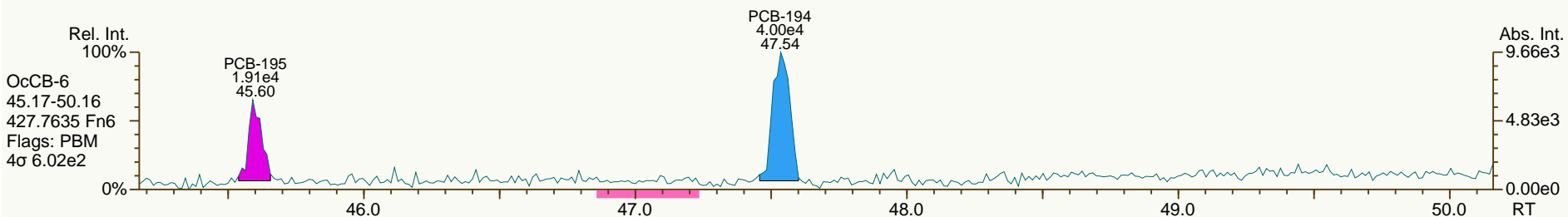
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SGS-AP ID: A6506\_11899\_PCB\_006  
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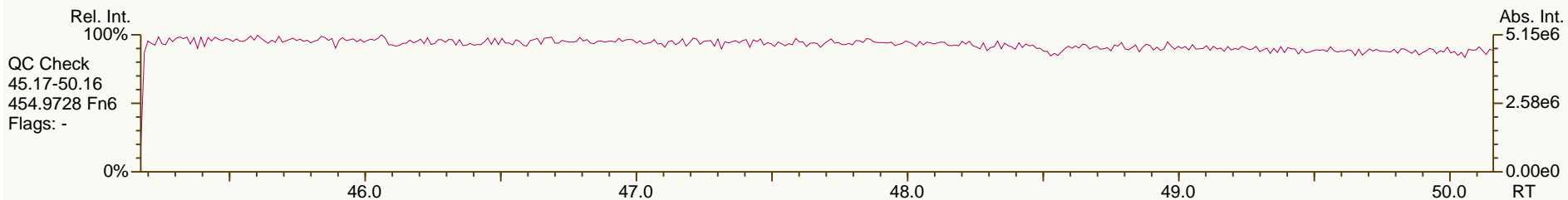
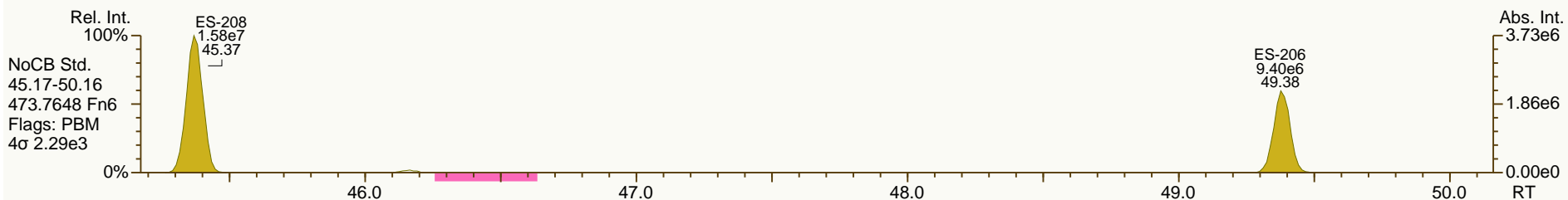
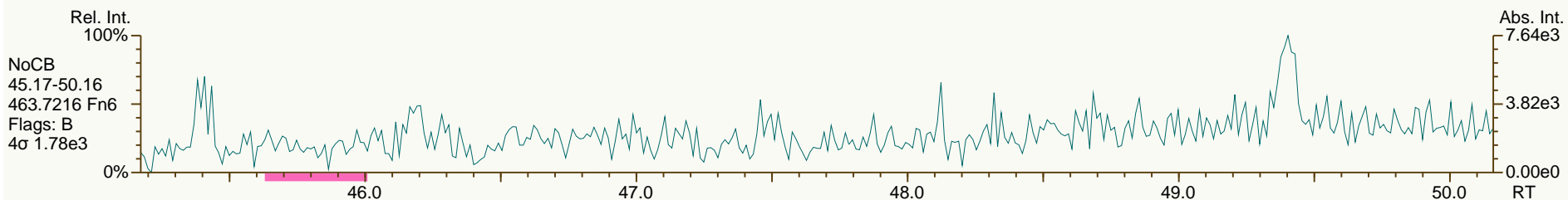
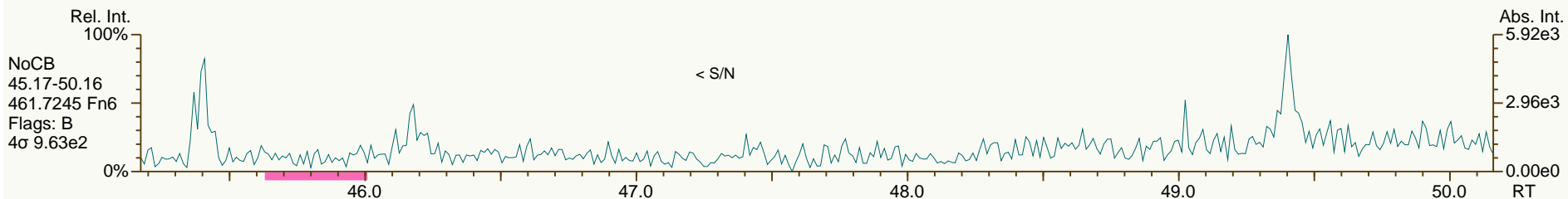
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SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

Sample ID: PB089-1SWMID-140314-N (TOTAL)  
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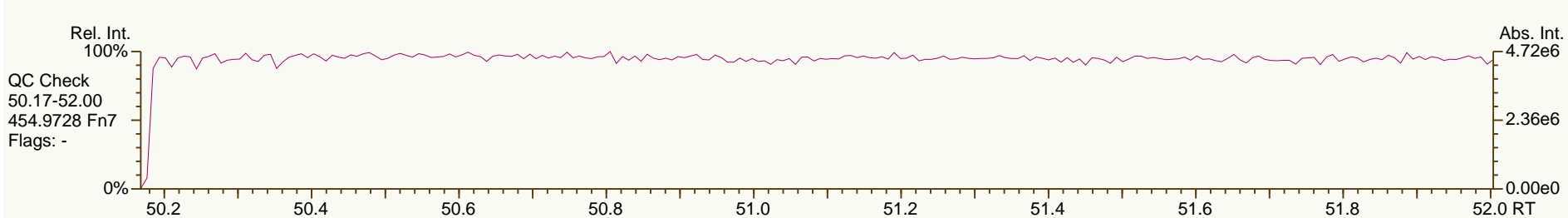
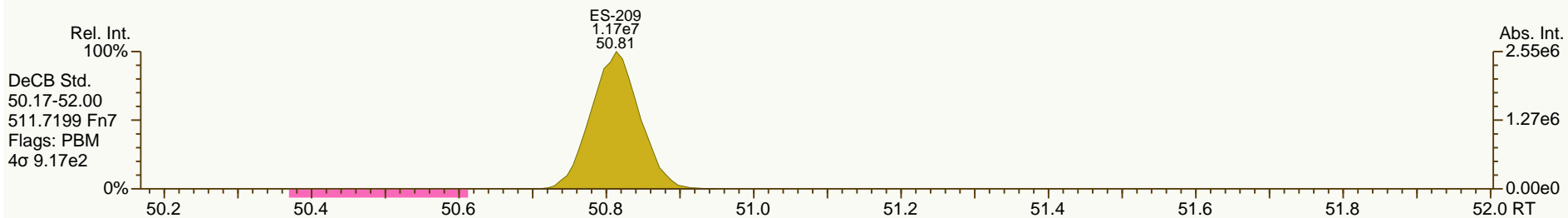
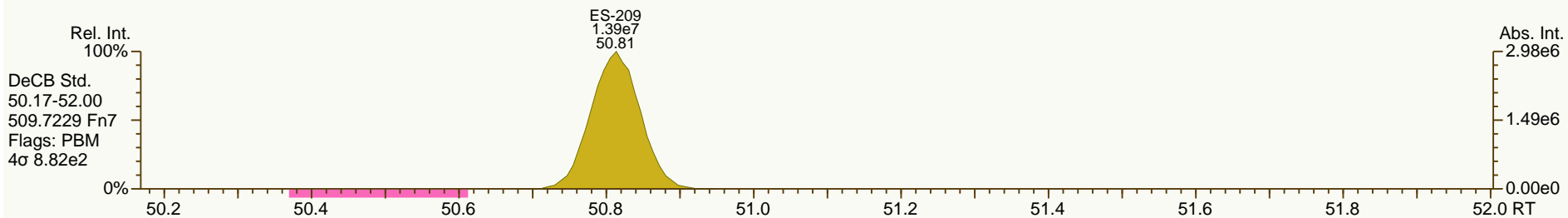
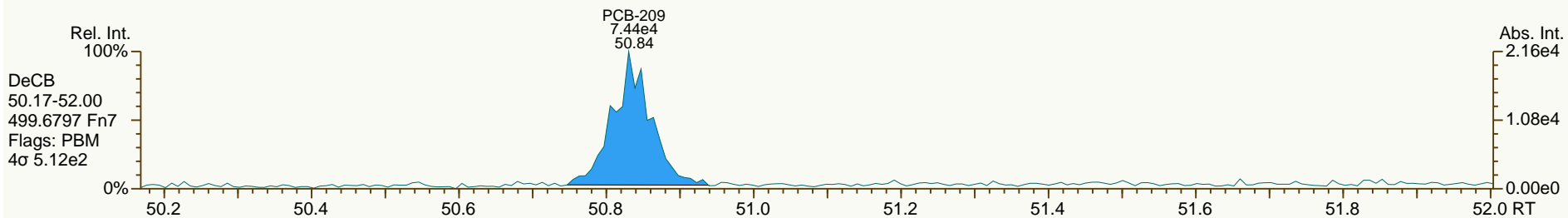
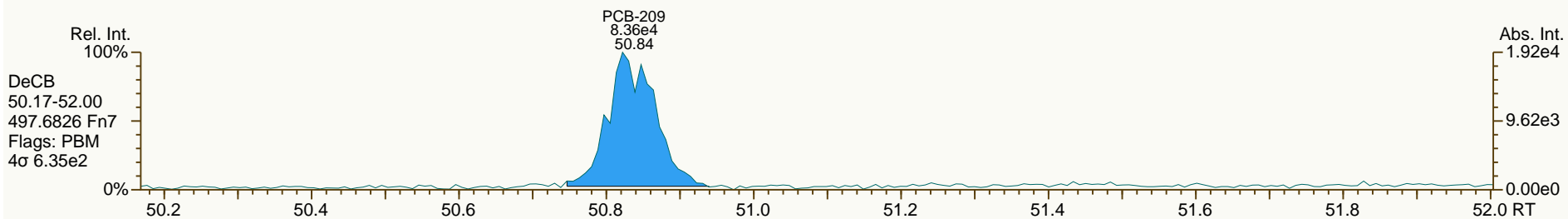
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SGS-AP ID: A6506\_11899\_PCB\_006  
 Instr: AutoSpec-Premier MM7

Sample ID: PB089-1SWMID-140314-N (TOTAL)  
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Acq: 27-Mar-2014 18:54:13  
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Lab ID: A6506\_11899\_PCB\_007

ACQ: 27-Mar-2014 19:49:23 LKB

Wt/Vol: 0.97 L

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Client ID: PB085-1SWMID-140314-N (TOTAL)

UTP: 30-Mar-2014 14:27 LKB

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Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79		1.0006	1.0006	0	7.73E+05	0.79	1.15	19.1	4.67E+03	1.19
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.67E+03	1.26
PCB-105 233'44'-PeCB	35.77		1.0006	1.0006	0	1.93E+06	0.60	1.11	60.1	2.35E+03	0.749
PCB-114 2344'5'-PeCB	35.23	J EMPC	1.0007	1.0006	-0.2	1.25E+05	0.79	1.20	3.67	2.35E+03	0.73
PCB-118 23'44'5'-PeCB	34.76		1.0006	1.0006	0	3.84E+06	0.62	1.19	116	2.35E+03	0.728
PCB-123 23'44'5'-PeCB	34.48	J	1.0006	1.0006	0	1.14E+05	0.53	1.21	3.38	2.35E+03	0.715
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	3.02E+03	1.14
PCB-156/157 ...-HxCB	40.92	J C	1.0005	1.0002	-0.7	2.02E+05	1.27	1.10	7.42	1.60E+03	0.831
PCB-167 23'44'55'-HxCB	39.95	J	1.0006	1.0006	0	7.51E+04	1.37	1.16	2.49	1.60E+03	0.547
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.60E+03	0.643
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.67E+03	0.723
PCB-209 DeCB	50.82		1.0004	1.0004	0	1.86E+05	1.21	1.11	12	1.39E+03	1.04
ES PCB-1	11.87		0.7245	0.7245	0	4.00E+07	3.24	1.19	29.8 %	15%	150%
ES PCB-3	14.16		0.8640	0.8640	0	5.00E+07	3.34	1.09	40.9 %	15%	150%
ES PCB-4	14.41		0.8795	0.8793	-0.2	2.63E+07	1.61	0.52	44.8 %	25%	150%
ES PCB-15	20.12		1.2271	1.2277	+0.7	8.27E+07	1.57	1.04	70.6 %	25%	150%
ES PCB-19	17.49		1.0673	1.0673	0	2.95E+07	1.07	0.51	51.8 %	25%	150%
ES PCB-37	26.44		1.0787	1.0790	+0.5	7.94E+07	1.09	1.66	72.7 %	25%	150%
ES PCB-54	20.40		0.8328	0.8325	-0.4	3.46E+07	0.78	0.86	61.1 %	25%	150%
ES PCB-77	32.77		1.3364	1.3372	+1.6	7.30E+07	0.81	1.38	80.3 %	25%	150%
ES PCB-81	32.29		1.3170	1.3177	+1.4	6.97E+07	0.80	1.37	77.5 %	25%	150%
ES PCB-104	25.37		0.8325	0.8322	-0.5	3.96E+07	1.65	0.80	81.2 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	5.99E+07	1.62	1.20	82.1 %	25%	150%
ES PCB-114	35.21		1.1543	1.1546	+0.6	5.86E+07	1.60	1.22	79.2 %	25%	150%
ES PCB-118	34.74		1.1391	1.1394	+0.6	5.77E+07	1.62	1.16	82 %	25%	150%
ES PCB-123	34.46		1.1299	1.1302	+0.6	5.74E+07	1.58	1.19	79.7 %	25%	150%
ES PCB-126	38.36		1.2575	1.2580	+1.2	5.15E+07	1.60	1.03	82.6 %	25%	150%
ES PCB-153	36.33		0.9716	0.9716	0	4.10E+07	1.28	1.11	78.4 %	25%	150%
ES PCB-155	30.32		0.8114	0.8111	-0.5	5.49E+07	1.26	1.59	74.4 %	25%	150%
ES PCB-156/157	40.91		1.0939	1.0941	+0.5	1.03E+08	1.30	1.60	69.2 %	25%	150%
ES PCB-167	39.92		1.0677	1.0678	+0.2	5.37E+07	1.28	1.67	69.4 %	25%	150%
ES PCB-169	43.62		1.1664	1.1667	+0.8	4.79E+07	1.28	1.56	66.3 %	25%	150%
ES PCB-170	43.14		0.9081	0.9080	-0.3	3.18E+07	1.06	0.95	79.9 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	3.79E+07	1.07	1.14	79 %	25%	150%
ES PCB-188	35.20		0.7413	0.7410	-0.6	3.97E+07	1.08	0.94	91.1 %	25%	150%
ES PCB-189	45.74		0.9629	0.9629	0	4.67E+07	1.02	1.58	86.1 %	25%	150%
ES PCB-202	39.74		0.8366	0.8364	-0.5	3.90E+07	0.90	0.97	86.6 %	25%	150%
ES PCB-205	47.91		1.0084	1.0084	0	3.33E+07	0.87	1.24	78 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	2.29E+07	0.80	0.83	80.4 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	3.56E+07	0.79	1.17	88.2 %	25%	150%
ES PCB-209	50.80		1.0694	1.0693	-0.3	2.89E+07	1.18	1.11	75.8 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9339	0	1.09E+08	1.07	1.11	124 %	30%	135%
SS PCB-111	32.78		1.0750	1.0751	+0.2	7.51E+07	1.59	1.03	127 %	30%	135%
SS PCB-178	37.76		1.0100	1.0101	+0.2	3.24E+07	1.07	0.62	132 %	30%	135%
CS PCB-28	22.89		0.9339	0.9339	0	1.09E+08	1.07	1.85	90.1 %	30%	135%
CS PCB-111	32.78		1.0750	1.0751	+0.2	7.51E+07	1.59	1.22	101 %	30%	135%
CS PCB-178	37.76		1.0100	1.0101	+0.2	3.24E+07	1.07	0.58	120 %	30%	135%
JS PCB-9	16.39					1.13E+08	1.57				
JS PCB-52	24.51					6.58E+07	0.81				
JS PCB-101	30.49					6.07E+07	1.58				
JS PCB-138	37.39					4.64E+07	1.30				
JS PCB-194	47.51					3.43E+07	0.90				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	0	28.6	1.84		
						Di-CBs	353	353	3.71		
						Tri-CBs	1,890	1,890	2.5		
						Tetra-CBs	2,830	2,840	1.05		
						Penta-CBs	1,130	1,130	0.77		
						Hexa-CBs	313	313	0.611		
						Hepta-CBs	75.4	86.9	0.788		
						Octa-CBs	14	19.7	0.798		
						Nona-CBs	0	0	1.98		
PCB-1 2-MoCB	11.89	EMPC	1.0011	1.0011	0	4.28E+05	3.68	0.95	23.3	5.70E+03	1.92
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.20	ND	5.70E+03	1.48
PCB-3 4-MoCB	14.16	J EMPC	1.0010	0.9996	-1.2	1.30E+05	9.87	1.01	5.34	5.70E+03	1.75
PCB-4 22'-DiCB	14.43		1.0011	1.0012	+0.1	2.27E+06	1.56	1.23	145	8.63E+03	3.98
PCB-10 26'-DiCB	14.61	J	1.0135	1.0136	+0.1	1.18E+05	SI	1.90	4.88	8.63E+03	2.58
PCB-9 25'-DiCB	16.40	J	1.0010	1.0010	0	2.05E+05	SI	1.01	5.08	1.55E+04	3.46
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.14	ND	1.55E+04	3.07
PCB-6 23'-DiCB	16.80		1.0249	1.0250	+0.1	2.42E+06	1.65	1.06	57	1.55E+04	3.29
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.07	ND	1.55E+04	3.26
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	2.50E+06	1.60	1.10	57.1	1.55E+04	3.18
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	1.55E+04	2.75
PCB-11 33'-DiCB	19.56	B	0.9721	0.9721	0	1.35E+06	1.66	1.10	30.7	1.55E+04	3.18
PCB-13/12 34'/34'-DiCB	19.82	J C	0.9866	0.9853	-1.5	8.29E+05	1.63	1.10	18.9	1.55E+04	3.19
PCB-15 44'-DiCB	20.13		1.0008	1.0007	-0.1	1.40E+06	1.67	1.02	34.5	1.55E+04	3.43
PCB-19 22'6-TrCB	17.51		1.0010	1.0010	0	1.49E+06	1.05	1.15	91.2	5.76E+03	2.91
PCB-30/18 246/22'5-TrCB	19.28	C	1.1014	1.1020	+0.7	9.13E+06	1.05	1.54	418	5.76E+03	2.17
PCB-17 22'4-TrCB	19.67		1.1243	1.1245	+0.2	3.32E+06	1.09	1.32	176	5.76E+03	2.52
PCB-27 23'6-TrCB	19.86		1.1353	1.1356	+0.4	8.71E+05	1.05	1.80	34	5.76E+03	1.85
PCB-24 236-TrCB	19.99	J	1.1430	1.1428	-0.2	8.62E+04	1.07	1.71	3.55	5.76E+03	1.95
PCB-16 22'3-TrCB	20.09		1.1484	1.1487	+0.4	1.98E+06	1.11	1.01	138	5.76E+03	3.3
PCB-32 24'6-TrCB	20.57		1.1758	1.1762	+0.5	5.04E+06	1.03	1.90	186	5.76E+03	1.75

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.72	J	0.8218	0.8215	-0.4	1.04E+05	1.00	1.28	2.13	8.73E+03	1.77
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	8.73E+03	1.76
PCB-26/29 23'5'/245-TrCB	22.13	C	0.8383	0.8370	-1.7	3.37E+06	1.00	1.29	68.3	8.73E+03	1.75
PCB-25 23'4'-TrCB	22.35		0.8456	0.8454	-0.3	3.54E+06	1.02	1.28	71.8	8.73E+03	1.75
PCB-31 24'5'-TrCB	22.63		0.8562	0.8560	-0.3	1.30E+07	0.99	1.34	253	8.73E+03	1.68
PCB-28/20 244'/233'-TrCB	22.91	C	0.8670	0.8663	-1.0	1.36E+07	1.01	1.25	283	8.73E+03	1.8
PCB-21/33 234'/23'4'-TrCB	23.12	C	0.8738	0.8744	+0.8	2.61E+06	1.01	1.29	52.9	8.73E+03	1.75
PCB-22 234'-TrCB	23.47		0.8880	0.8877	-0.4	3.39E+06	0.98	1.20	73.6	8.73E+03	1.87
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	8.73E+03	1.71
PCB-39 34'5'-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	8.73E+03	1.66
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.21	ND	8.73E+03	1.85
PCB-35 33'4'-TrCB	26.10	J	0.9871	0.9870	-0.2	1.76E+05	1.03	1.16	3.97	8.73E+03	1.95
PCB-37 344'-TrCB	26.47		1.0007	1.0009	+0.3	1.51E+06	1.00	1.08	36.5	8.73E+03	2.09
PCB-54 22'66'-TeCB	20.42	J EMPC	1.0010	1.0010	0	5.24E+04	0.52	1.35	2.32	1.97E+03	0.807
PCB-50/53 22'46'/22'56'-TeCB	22.38	C	0.9145	0.9134	-1.5	2.70E+06	0.79	0.92	87	2.98E+03	0.971
PCB-45 22'36'-TeCB	22.99		0.9383	0.9383	0	1.75E+06	0.79	0.80	65.1	2.98E+03	1.12
PCB-51 22'46'-TeCB	23.06		0.9413	0.9411	-0.3	1.70E+06	0.80	0.93	54.5	2.98E+03	0.97
PCB-46 22'36'-TeCB	23.28		0.9499	0.9499	0	8.62E+05	0.84	0.73	35	2.98E+03	1.23
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	1.42E+07	0.79	0.89	473	2.98E+03	1
PCB-73 23'5'6'-TeCB	24.66	J	1.0062	1.0064	+0.3	5.35E+04	0.79	1.18	1.35	2.98E+03	0.761
PCB-43 22'35'-TeCB	24.75		1.0101	1.0101	0	3.62E+05	0.83	0.77	14	2.98E+03	1.16
PCB-69/49 23'46'/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	9.35E+06	0.80	1.10	253	2.98E+03	0.817
PCB-48 22'45'-TeCB	25.23		1.0295	1.0296	+0.2	1.79E+06	0.76	0.91	58.7	2.98E+03	0.99
PCB-44/47/65 ...-TeCB	25.43	C	1.0384	1.0375	-1.4	1.36E+07	0.80	0.96	418	2.98E+03	0.93
PCB-59/62/75 ...-TeCB	25.71	J C	1.0496	1.0493	-0.5	1.25E+06	0.81	1.25	29.7	2.98E+03	0.719
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	2.93E+06	0.76	0.83	105	2.98E+03	1.08
PCB-41 22'34'-TeCB	26.22		1.0698	1.0699	+0.2	5.39E+05	0.78	0.73	22	2.98E+03	1.23
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	5.58E+06	0.79	0.93	179	2.98E+03	0.965
PCB-64 234'6'-TeCB	26.52		1.0819	1.0820	+0.2	6.67E+06	0.79	1.32	151	2.98E+03	0.681
PCB-72 23'55'-TeCB	27.24	J	0.8436	0.8434	-0.3	8.07E+04	0.83	1.29	1.86	4.67E+03	1.09
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	1.23E+06	0.79	1.37	26.7	4.67E+03	1.03
PCB-57 233'5'-TeCB	27.86	J	0.8630	0.8628	-0.3	5.11E+04	0.88	1.23	1.24	4.67E+03	1.15
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.26	ND	4.67E+03	1.12
PCB-67 23'45'-TeCB	28.22	J	0.8741	0.8739	-0.3	2.31E+05	0.75	1.31	5.26	4.67E+03	1.08
PCB-63 234'5'-TeCB	28.45	J	0.8811	0.8810	-0.2	4.71E+05	0.81	1.36	10.3	4.67E+03	1.04
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8903	+0.2	1.65E+07	0.77	1.24	394	4.67E+03	1.13
PCB-66 23'44'-TeCB	29.02		0.8989	0.8986	-0.5	9.92E+06	0.77	1.17	253	4.67E+03	1.21
PCB-55 233'4'-TeCB	29.16	J	0.9034	0.9031	-0.5	1.17E+05	0.79	1.17	2.97	4.67E+03	1.2
PCB-56 233'4'-TeCB	29.60		0.9169	0.9167	-0.4	4.76E+06	0.78	1.16	122	4.67E+03	1.21
PCB-60 2344'-TeCB	29.80		0.9229	0.9227	-0.4	2.02E+06	0.82	1.18	51	4.67E+03	1.2
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	4.67E+03	1.03
PCB-79 33'45'-TeCB	31.46	J	0.9737	0.9741	+0.8	6.75E+04	0.67	1.38	1.46	4.67E+03	1.02
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.67E+03	1.27
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.64E+03	0.564
PCB-96 22'366'-PeCB	25.72	J	1.0134	1.0134	0	9.86E+04	0.59	1.20	4.31	1.64E+03	0.676
PCB-103 22'45'6'-PeCB	27.40	J EMPC	0.8989	0.8987	-0.3	3.76E+04	0.78	0.95	1.43	2.35E+03	0.915
PCB-94 22'356'-PeCB	27.59	J EMPC	0.9051	0.9048	-0.5	4.01E+04	0.73	0.79	1.82	2.35E+03	1.09
PCB-95 22'35'6'-PeCB	27.98		0.9176	0.9175	-0.2	3.24E+06	0.63	0.86	135	2.35E+03	1

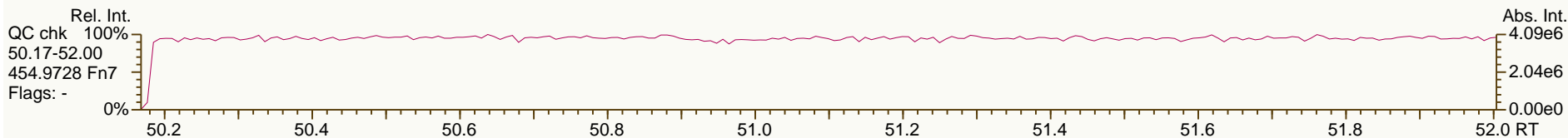
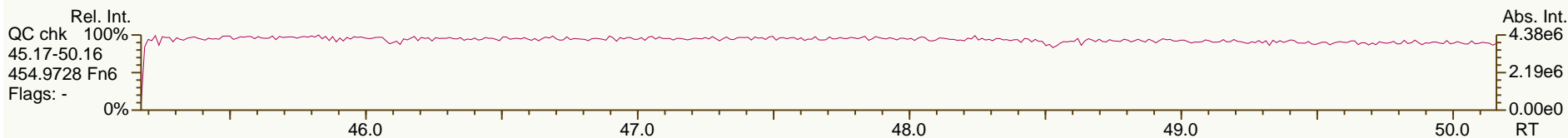
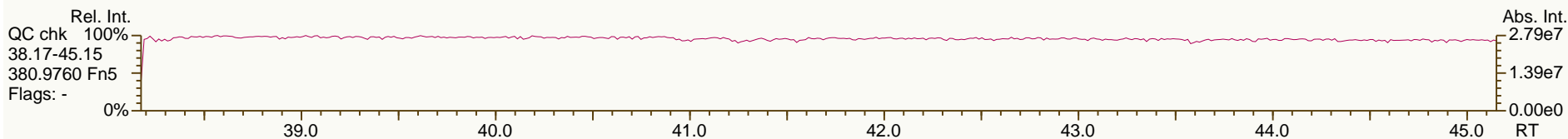
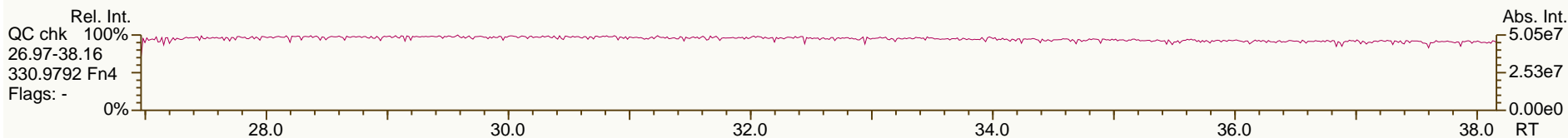
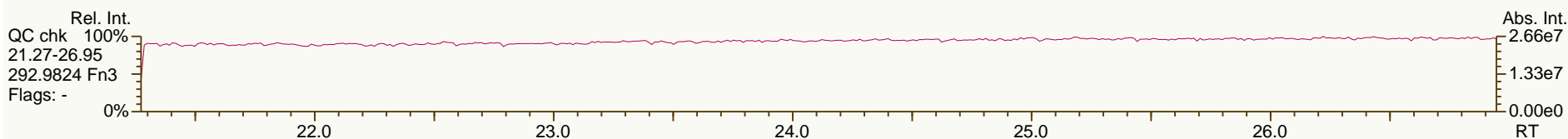
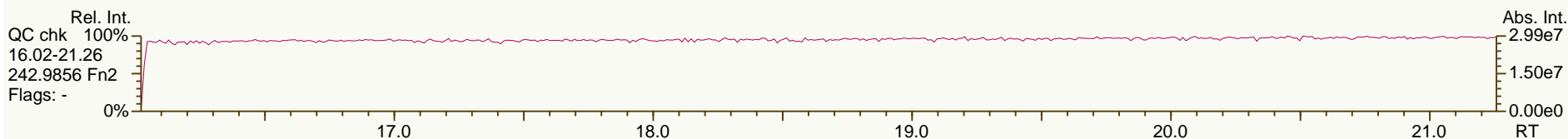
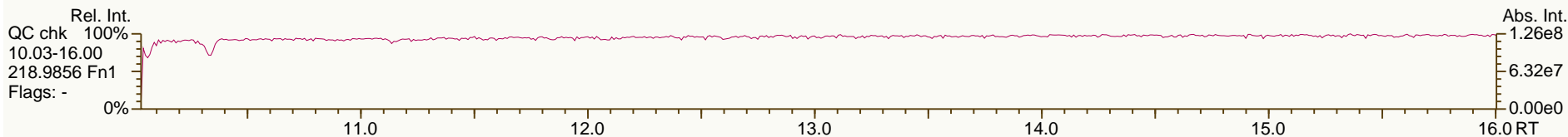
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.19	J C	0.9246	0.9245	-0.2	6.93E+04	0.58	0.88	2.86	2.35E+03	0.99
PCB-102 22'456"-PeCB	28.30	J	0.9282	0.9281	-0.2	2.72E+05	0.58	1.04	9.42	2.35E+03	0.831
PCB-98 22'34'6"-PeCB	NotFnd		0.9305	-		0.00E+00		0.73	ND	2.35E+03	1.19
PCB-88 22'346"-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	2.35E+03	1.09
PCB-91 22'34'6"-PeCB	28.73		0.9424	0.9423	-0.2	8.65E+05	0.61	0.91	34.1	2.35E+03	0.947
PCB-84 22'33'6"-PeCB	28.93		0.9487	0.9486	-0.2	1.29E+06	0.62	0.72	64.3	2.35E+03	1.2
PCB-89 22'346"-PeCB	29.35	J	0.9624	0.9624	0	1.18E+05	0.62	0.76	5.57	2.35E+03	1.13
PCB-121 23'45'6"-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	2.35E+03	0.711
PCB-92 22'355"-PeCB	30.01		0.9841	0.9842	+0.2	7.16E+05	0.61	0.83	31.3	2.35E+03	1.05
PCB-113/90/101 ...-PeCB	30.52	C	0.9999	1.0007	+1.5	4.05E+06	0.61	0.98	149	2.35E+03	0.882
PCB-83 22'33'5"-PeCB	30.92		1.0142	1.0141	-0.2	2.29E+05	0.59	0.71	11.6	2.35E+03	1.21
PCB-99 22'44'5"-PeCB	31.02		1.0173	1.0174	+0.2	2.37E+06	0.61	0.91	94.1	2.35E+03	0.954
PCB-112 233'56"-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	2.35E+03	0.74
PCB-108/119/86/97/125...-PeCB	31.50	C	1.0320	1.0329	+1.7	3.37E+06	0.58	1.00	122	2.35E+03	0.87
PCB-117 234'56"-PeCB	31.99	J	1.0495	1.0491	-0.8	1.06E+05	0.57	1.05	3.64	2.35E+03	0.825
PCB-116/85 23456/22'344"-PeCB	32.08	C	1.0525	1.0520	-1.0	1.13E+06	0.60	0.98	41.4	2.35E+03	0.88
PCB-110 233'4'6"-PeCB	32.21		1.0561	1.0564	+0.6	5.76E+06	0.60	1.12	186	2.35E+03	0.777
PCB-115 2344'6"-PeCB	32.32	J	1.0590	1.0600	+1.9	7.65E+04	0.58	1.15	2.41	2.35E+03	0.756
PCB-82 22'33'4"-PeCB	32.49		1.0655	1.0656	+0.2	5.99E+05	0.61	0.69	31.2	2.35E+03	1.25
PCB-111 233'55"-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	2.35E+03	0.719
PCB-120 23'455"-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	2.35E+03	0.708
PCB-107/124 ...-PeCB	34.17	J C	0.9916	0.9916	0	1.79E+05	0.68	1.10	5.89	2.35E+03	0.791
PCB-109 233'46"-PeCB	34.38	J	0.9976	0.9976	0	3.51E+05	0.66	1.24	10.2	2.35E+03	0.698
PCB-106 233'45"-PeCB	NotFnd		1.0038	-		0.00E+00		1.08	ND	2.35E+03	0.804
PCB-122 233'4'5"-PeCB	35.06	J	1.0091	1.0092	+0.2	8.47E+04	0.62	1.00	2.98	2.35E+03	0.875
PCB-127 33'455"-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	2.35E+03	0.767
PCB-155 22'44'66"-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.43E+03	0.421
PCB-152 22'3566"-HxCB	NotFnd		1.0060	-		0.00E+00		1.11	ND	1.43E+03	0.48
PCB-150 22'34'66"-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.43E+03	0.474
PCB-136 22'33'66"-HxCB	30.96	J	1.0207	1.0208	+0.2	2.72E+05	1.19	1.03	10	1.43E+03	0.517
PCB-145 22'3466"-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.43E+03	0.506
PCB-148 22'34'56"-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.43E+03	0.652
PCB-151/135 ...-HxCB	33.01	C	1.0886	1.0886	0	4.43E+05	1.24	1.06	21	1.43E+03	0.689
PCB-154 22'44'56"-HxCB	NotFnd		1.0954	-		0.00E+00		1.25	ND	1.43E+03	0.588
PCB-144 22'345'6"-HxCB	33.49	J	1.1041	1.1044	+0.6	6.77E+04	1.42	1.10	3.1	1.43E+03	0.665
PCB-147/149 ...-HxCB	33.79	C	1.1141	1.1142	+0.2	1.12E+06	1.27	1.11	51.3	1.43E+03	0.663
PCB-134 22'33'56"-HxCB	33.97	J	1.1199	1.1201	+0.4	8.93E+04	1.21	0.79	5.73	1.43E+03	0.932
PCB-143 22'3456"-HxCB	NotFnd		1.1225	-		0.00E+00		1.10	ND	1.43E+03	0.664
PCB-139/140 ...-HxCB	34.30	J C	1.1312	1.1312	0	4.17E+04	1.07	1.11	1.9	1.43E+03	0.66
PCB-131 22'33'46"-HxCB	34.48	J	1.1369	1.1370	+0.2	2.48E+04	1.09	0.94	1.33	1.43E+03	0.78
PCB-142 22'3456"-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.43E+03	0.792
PCB-132 22'33'46"-HxCB	34.86		1.1494	1.1497	+0.6	5.06E+05	1.37	0.97	26.4	1.43E+03	0.756
PCB-133 22'33'55"-HxCB	NotFnd		1.1626	-		0.00E+00		1.04	ND	1.43E+03	0.702
PCB-165 233'55'6"-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.43E+03	0.56
PCB-146 22'34'55"-HxCB	35.82	J	0.9582	0.9581	-0.2	2.23E+05	1.16	1.14	9.9	1.43E+03	0.644
PCB-161 233'45'6"-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.43E+03	0.517
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9722	-1.3	1.39E+06	1.31	1.39	50.4	1.43E+03	0.528
PCB-141 22'3455"-HxCB	36.52		0.9766	0.9767	+0.2	2.43E+05	1.16	1.03	11.9	1.43E+03	0.709

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.86	J	0.9859	0.9859	0	9.36E+04	1.20	0.92	5.15	1.43E+03	0.798
PCB-137 22'344'5'-HxCB	37.06	J	0.9911	0.9913	+0.4	7.86E+04	1.11	1.14	3.5	1.43E+03	0.646
PCB-164 233'4'5'6'-HxCB	37.14	J	0.9933	0.9933	0	1.22E+05	1.21	1.38	4.48	1.43E+03	0.531
PCB-163/138/129 ...-HxCB	37.41	C	1.0011	1.0007	-0.9	1.71E+06	1.28	1.11	77.6	1.43E+03	0.66
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.43E+03	0.563
PCB-158 233'44'6'-HxCB	37.75	J	1.0096	1.0096	0	2.32E+05	1.24	1.50	7.84	1.43E+03	0.49
PCB-128/166 ...-HxCB	38.49	J C	0.9641	0.9642	+0.2	2.74E+05	1.40	0.89	11.8	1.60E+03	0.712
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.07	ND	1.60E+03	0.593
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.60E+03	0.598
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.28E+03	0.516
PCB-179 22'33'566'-HpCB	35.51	J	1.0086	1.0087	+0.2	1.08E+05	1.00	1.08	5.21	1.28E+03	0.606
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.03	ND	1.28E+03	0.638
PCB-176 22'33'466'-HpCB	36.26	J EMPC	1.0300	1.0301	+0.2	3.58E+04	1.23	1.14	1.64	1.28E+03	0.574
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.28E+03	0.613
PCB-178 22'33'55'6'-HpCB	37.77	J	1.0733	1.0729	-0.9	3.60E+04	0.91	0.76	2.48	1.28E+03	0.863
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.08	ND	1.76E+03	0.906
PCB-187 22'34'55'6'-HpCB	38.56		1.0952	1.0953	+0.2	2.81E+05	1.13	1.15	13.4	1.76E+03	0.851
PCB-182 22'344'56'6'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.76E+03	0.822
PCB-183 22'344'5'6'-HpCB	39.09	J EMPC	1.1101	1.1105	+0.9	1.33E+05	1.28	1.22	5.97	1.76E+03	0.802
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.03	ND	1.76E+03	0.948
PCB-174 22'33'456'-HpCB	39.28		1.1156	1.1158	+0.5	1.94E+05	1.06	0.98	10.8	1.76E+03	0.997
PCB-177 22'33'45'6'-HpCB	39.65	J	1.1262	1.1263	+0.2	9.82E+04	1.08	0.95	5.68	1.76E+03	1.03
PCB-181 22'344'56'-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.76E+03	0.915
PCB-171/173 ...-HpCB	40.19	J EMPC C	1.1413	1.1418	+1.2	6.65E+04	1.22	0.95	3.85	1.76E+03	1.03
PCB-172 22'33'455'-HpCB	41.53	J	0.9080	0.9079	-0.2	3.37E+04	0.94	0.97	1.9	1.76E+03	1.01
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.76E+03	0.776
PCB-180/193 ...-HpCB	42.09	C	0.9194	0.9200	+1.5	4.97E+05	1.00	1.24	21.9	1.76E+03	0.789
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.76E+03	0.725
PCB-170 22'33'44'5'-HpCB	43.15		0.9434	0.9434	0	2.09E+05	0.93	1.14	12	1.76E+03	1.05
PCB-190 233'44'56'-HpCB	43.60	J	0.9533	0.9532	-0.3	4.98E+04	0.92	1.56	2.09	1.76E+03	0.765
PCB-202 22'33'55'66'-OoCB	39.76	J	1.0005	1.0006	+0.2	3.32E+04	0.99	1.05	1.68	1.47E+03	0.768
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.13	ND	1.47E+03	0.712
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.47E+03	0.766
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.13	ND	1.47E+03	0.715
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.07	ND	1.47E+03	0.753
PCB-198/199 ...-OoCB	43.74	J C	1.1001	1.1007	+1.6	8.84E+04	0.96	0.72	6.53	1.47E+03	1.12
PCB-196 22'33'44'56'6'-OoCB	44.30	J EMPC	1.1146	1.1148	+0.5	3.58E+04	0.60	0.76	2.49	1.47E+03	1.06
PCB-203 22'344'55'6'-OoCB	44.47	J EMPC	1.1188	1.1191	+0.8	4.57E+04	1.10	0.77	3.15	1.47E+03	1.05
PCB-195 22'33'44'56'-OoCB	45.58	J	0.9516	0.9514	-0.5	2.23E+04	0.82	0.80	1.74	1.36E+03	1.1
PCB-194 22'33'44'55'6'-OoCB	47.52	J	0.9921	0.9920	-0.3	5.56E+04	1.00	0.85	4.06	1.36E+03	1.03
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.36E+03	0.828
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.82E+03	1.53
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.13	ND	2.82E+03	1.52
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.82E+03	2.43

SGS-AP ID: A6506\_11899\_PCB\_007  
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Sample ID: PB085-1SWMID-140314-N (TOTAL)  
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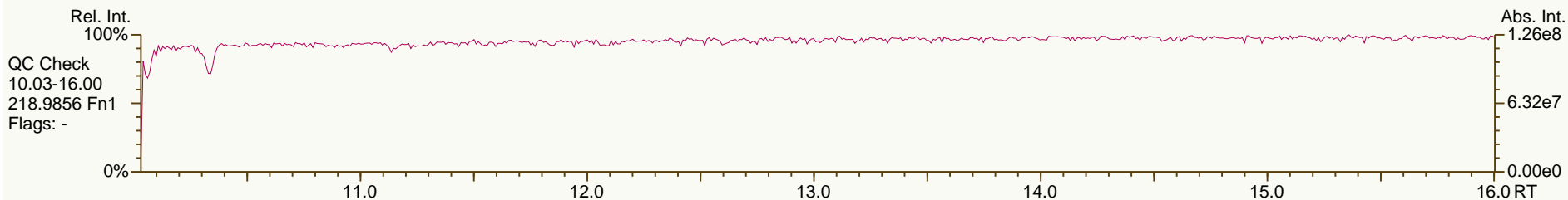
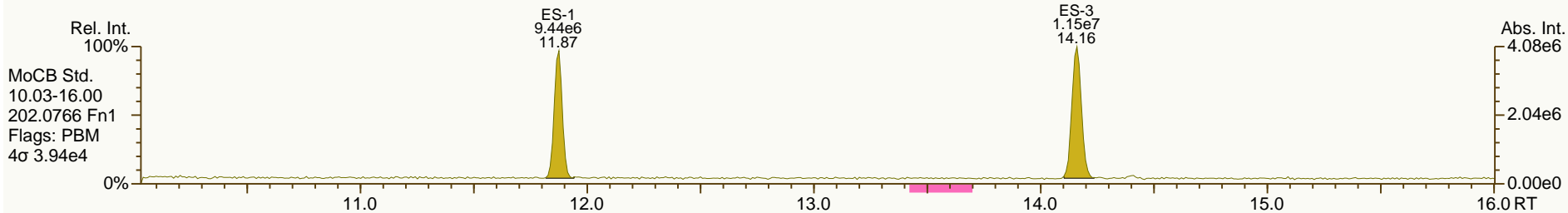
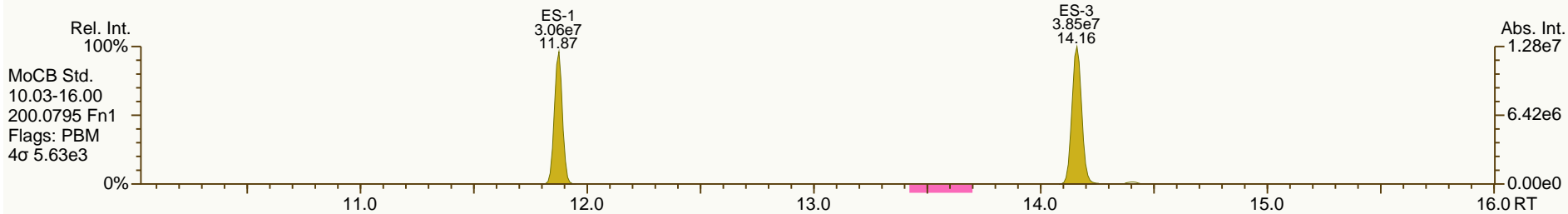
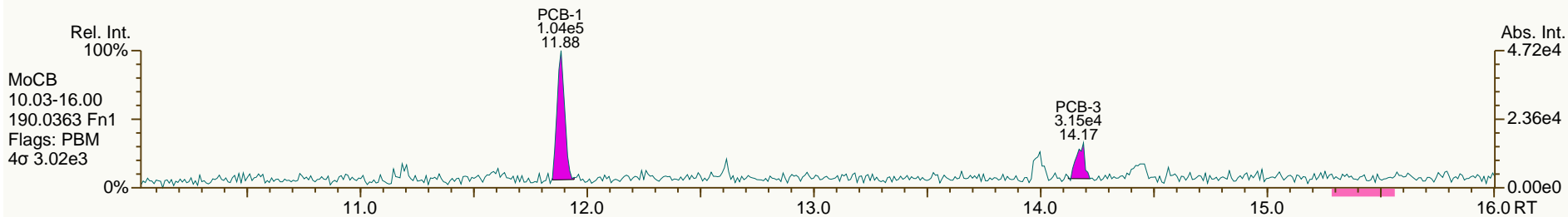
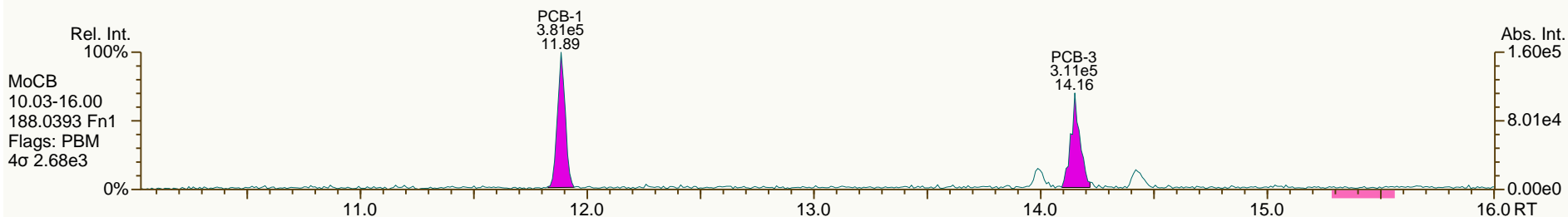
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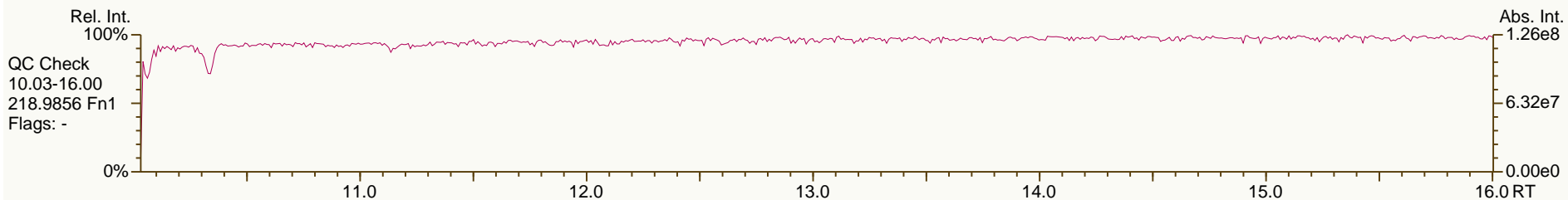
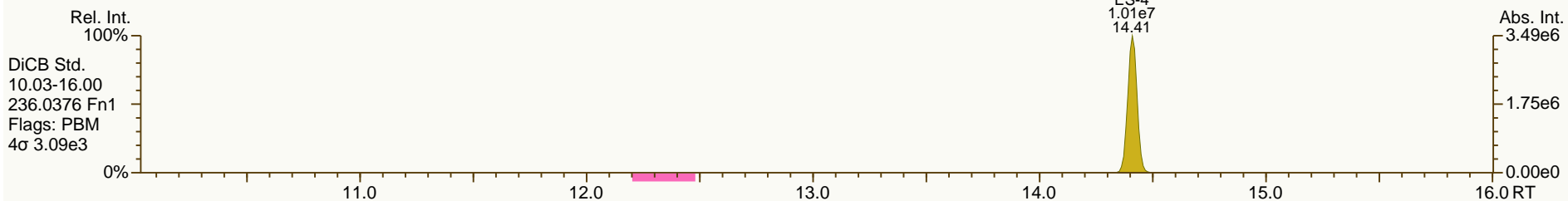
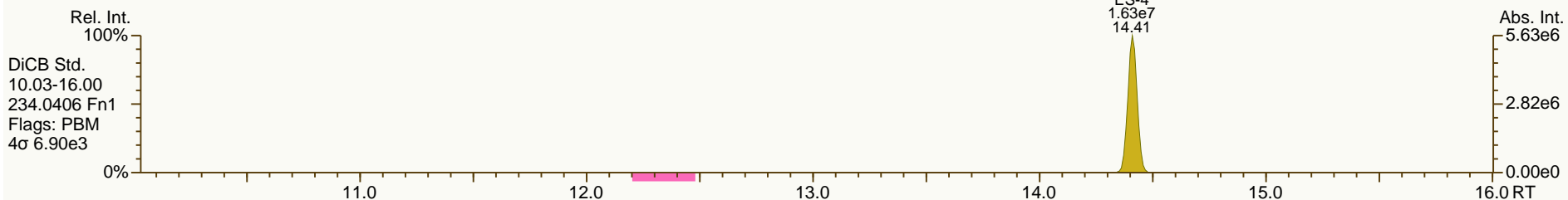
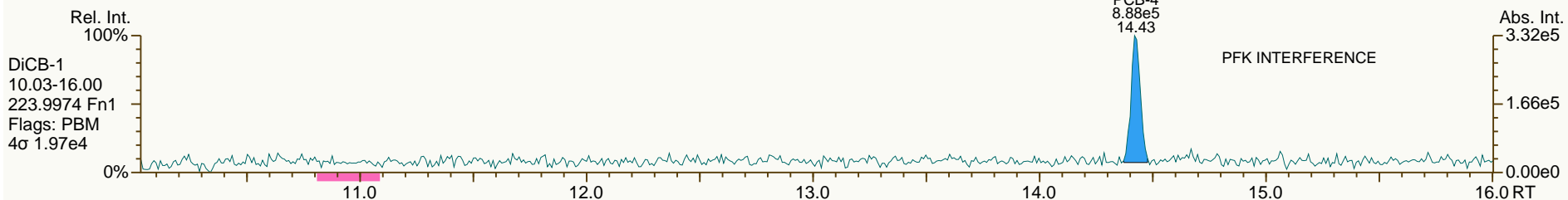
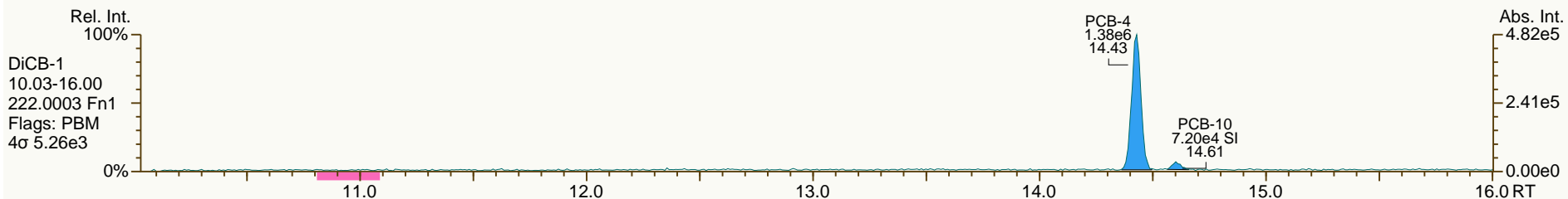
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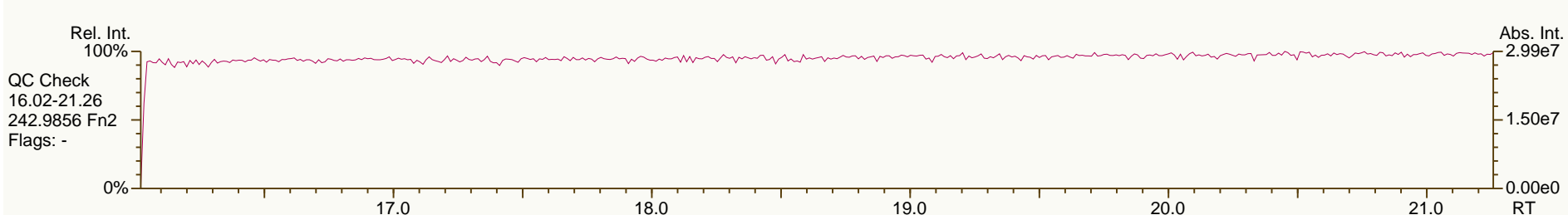
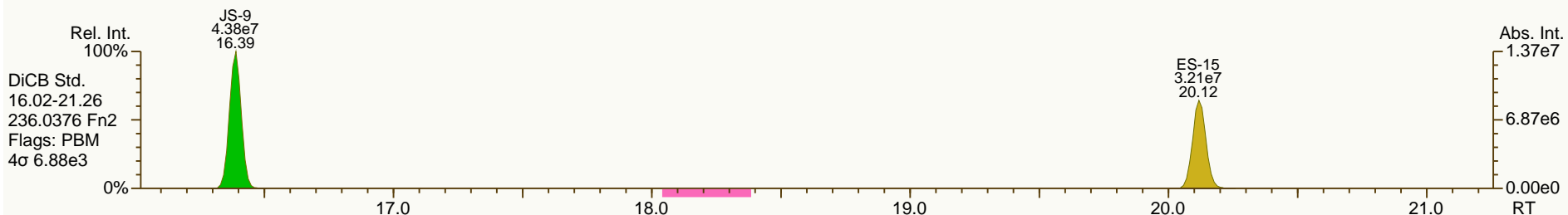
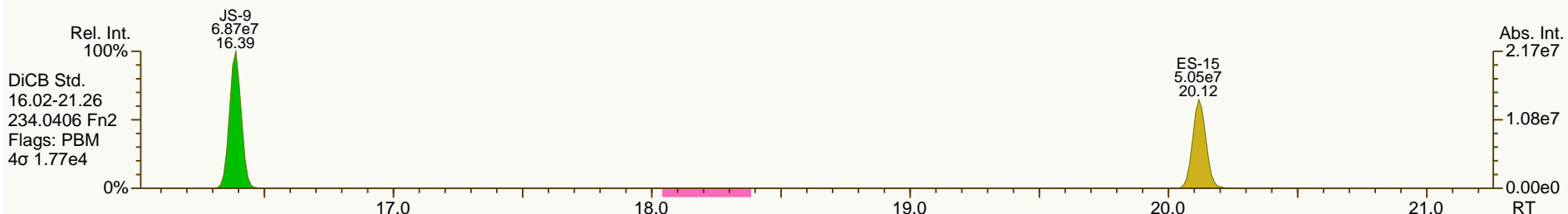
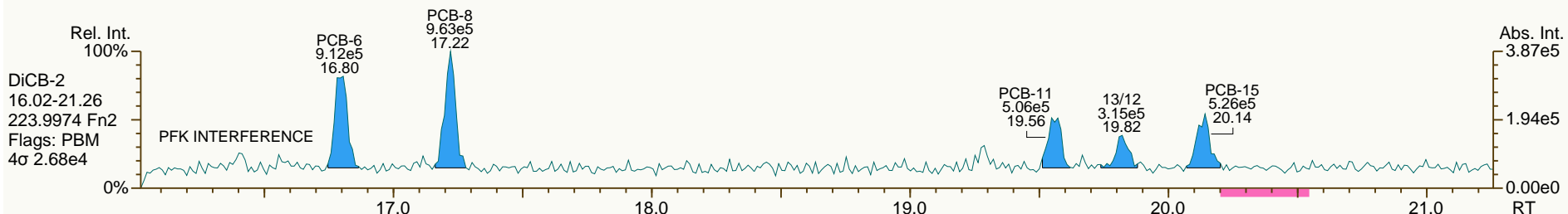
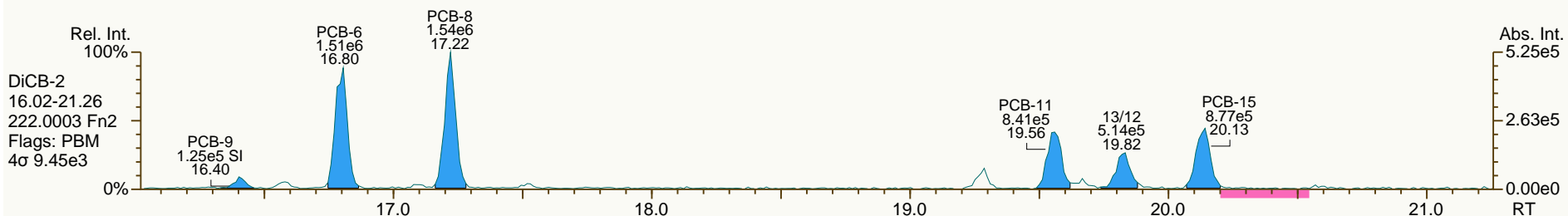




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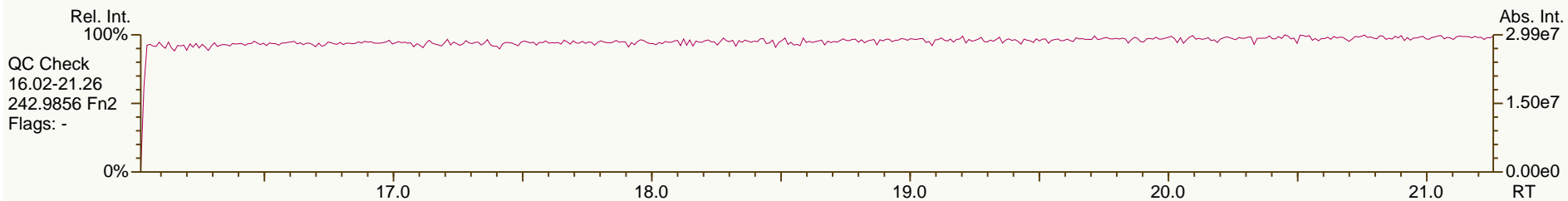
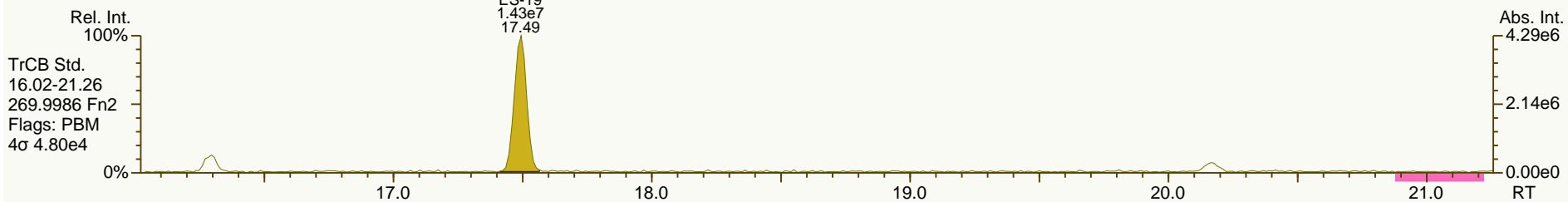
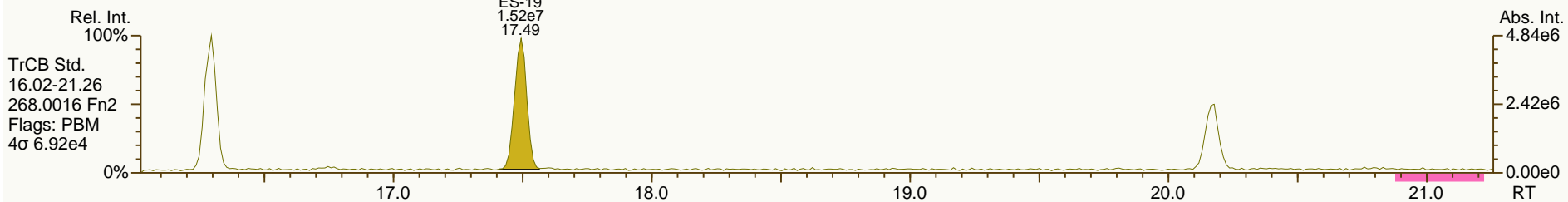
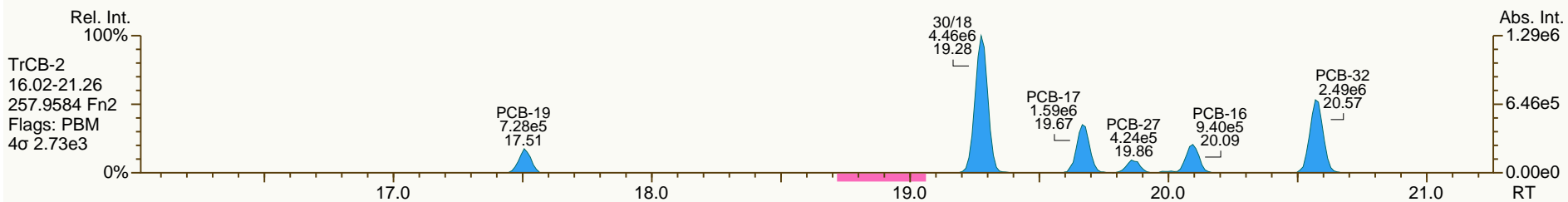
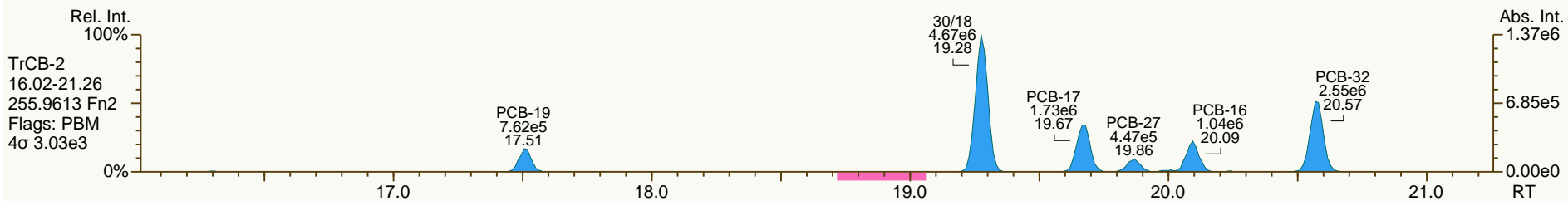
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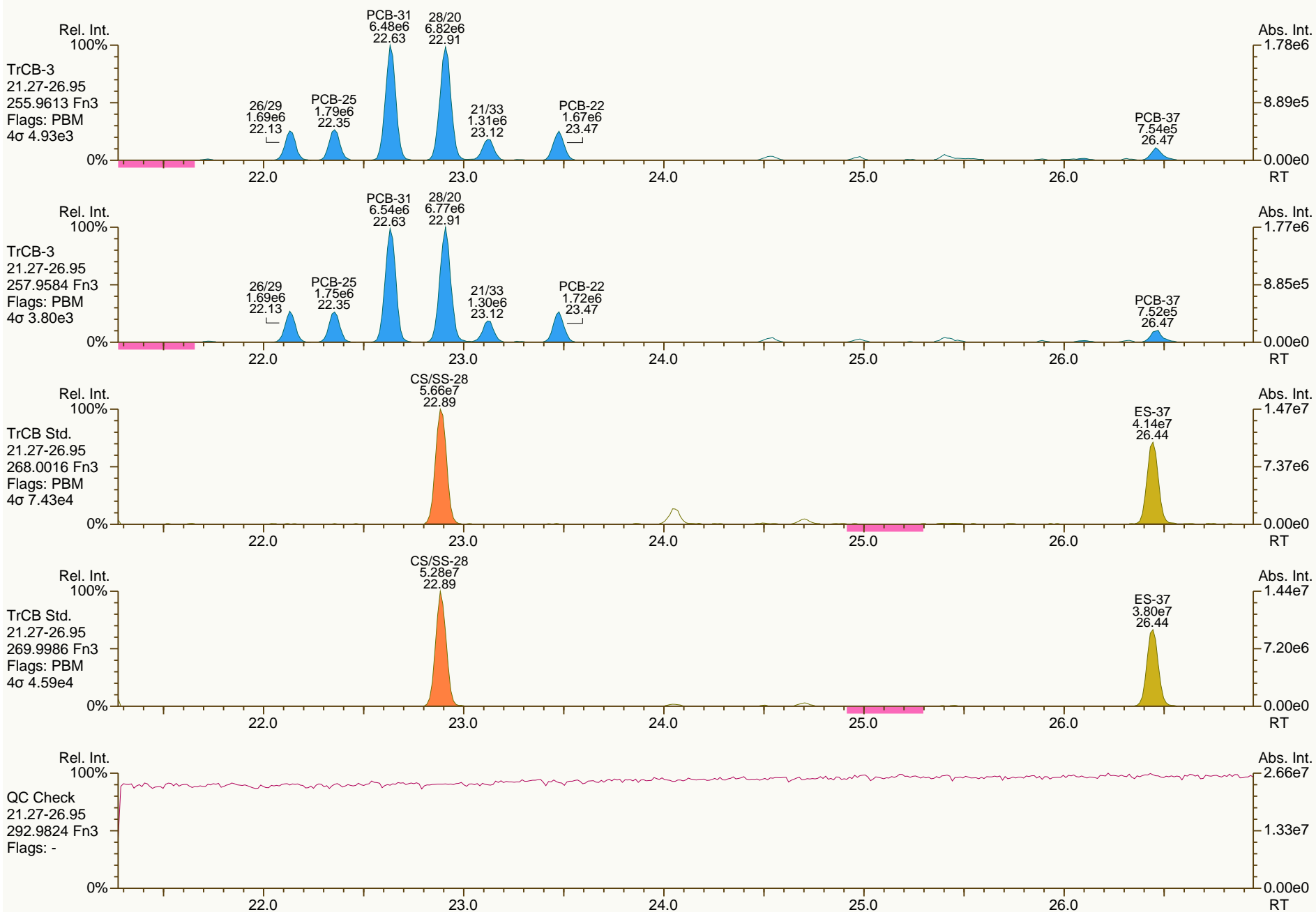
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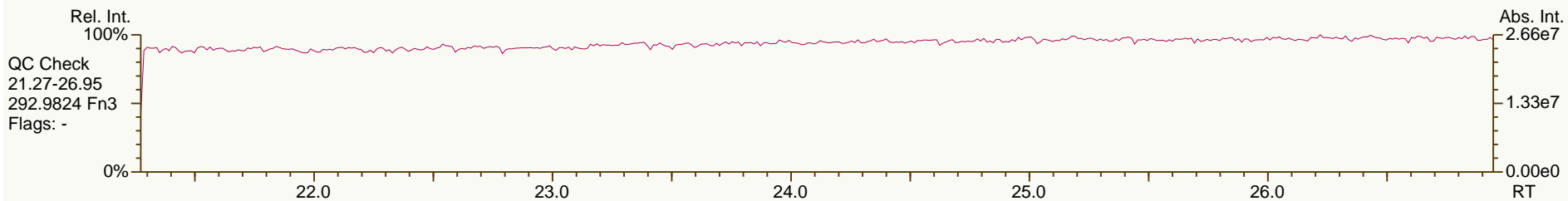
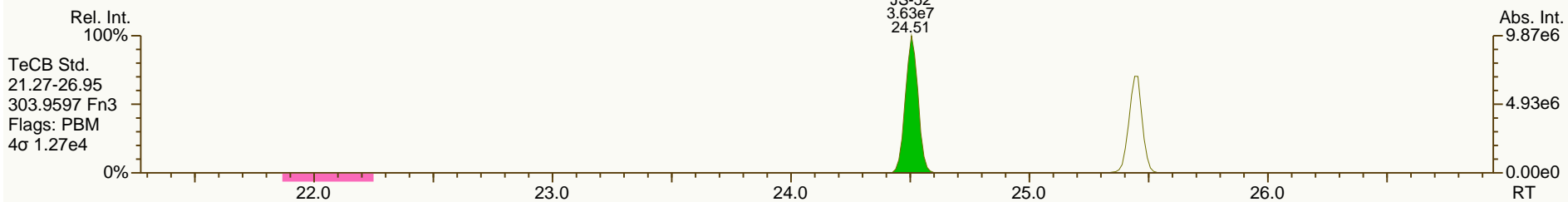
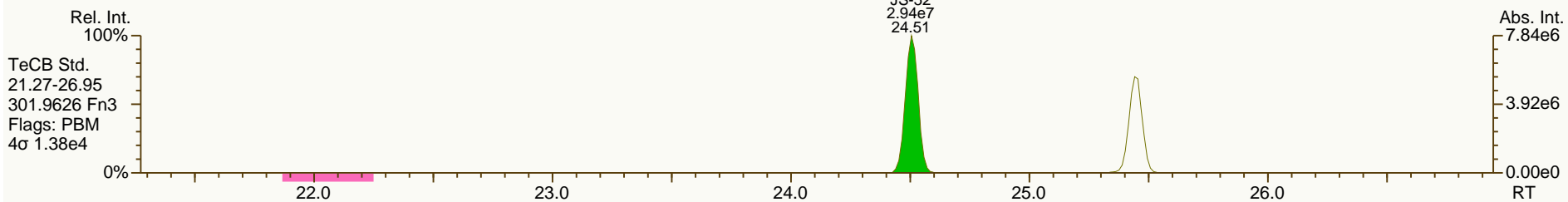
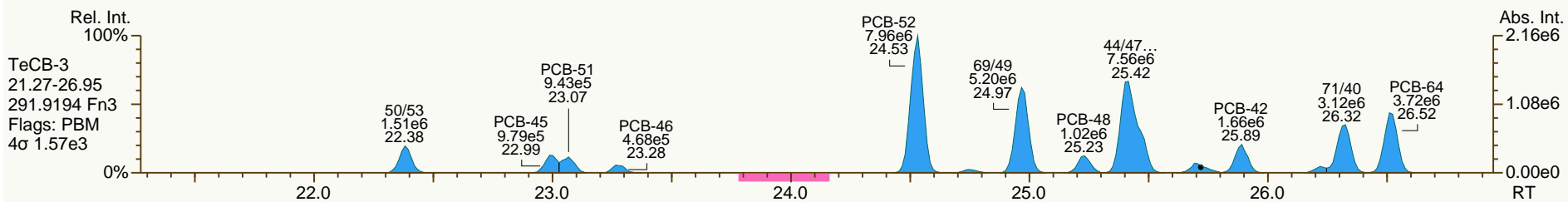
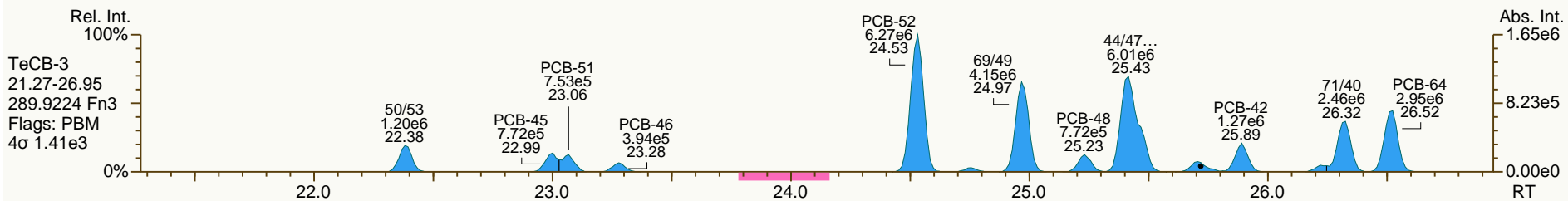
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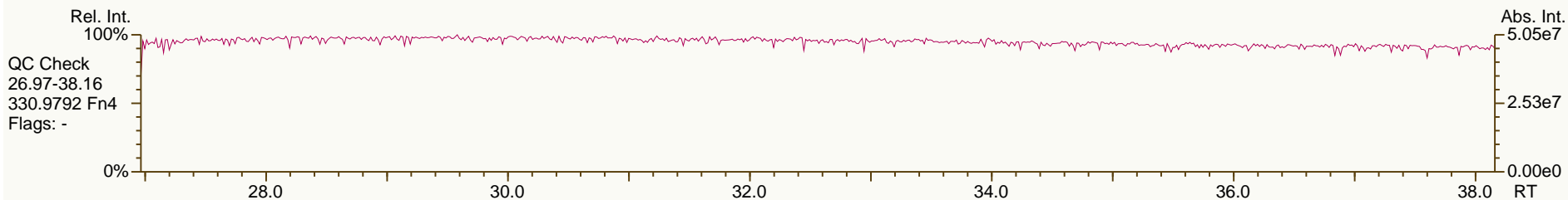
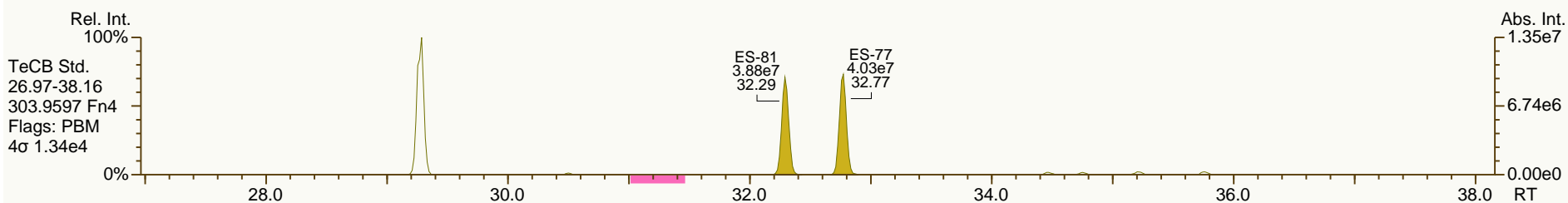
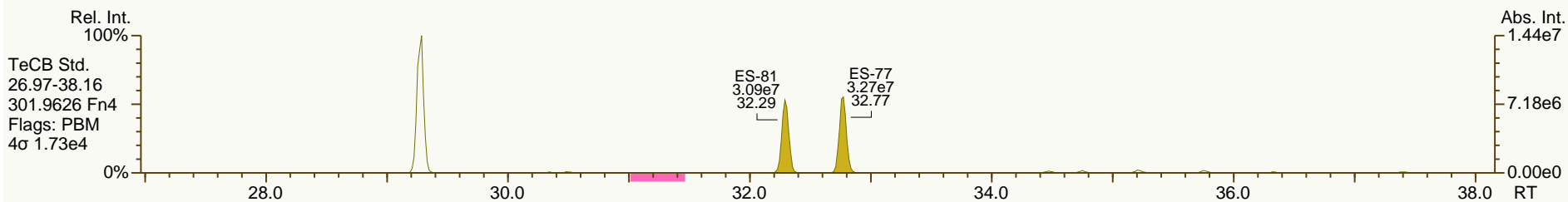
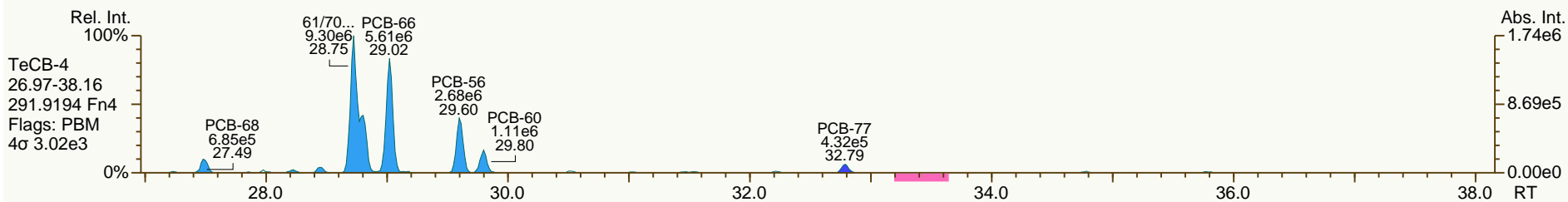
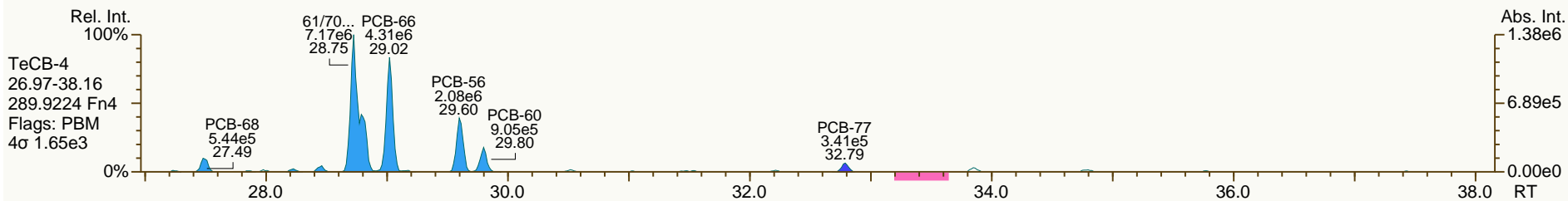
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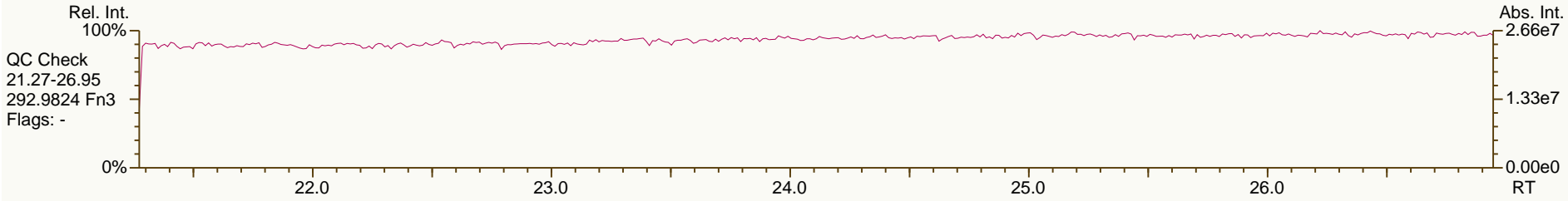
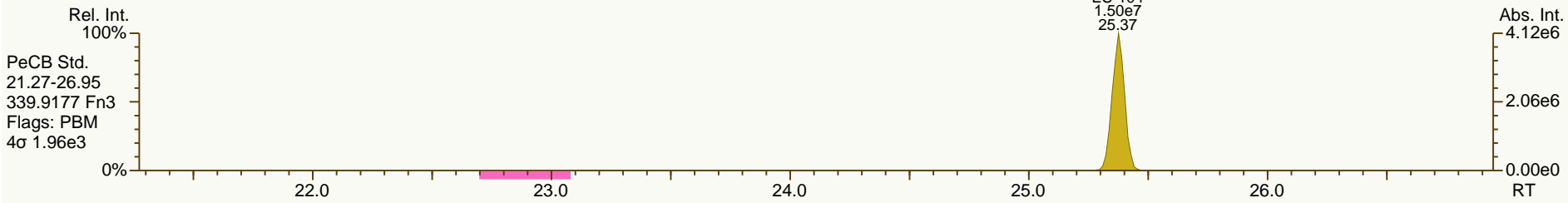
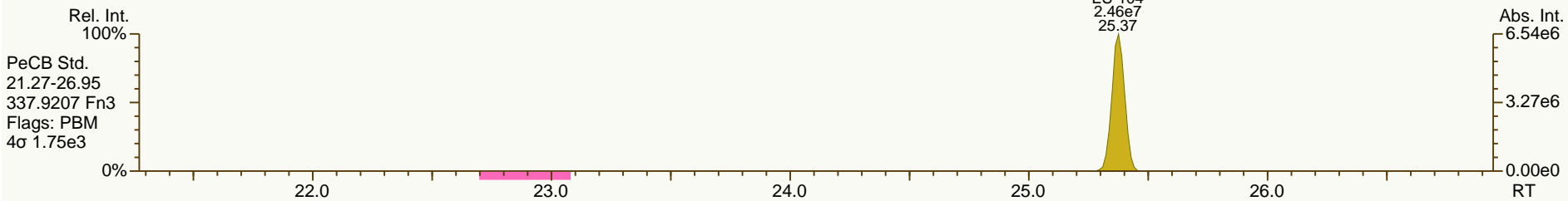
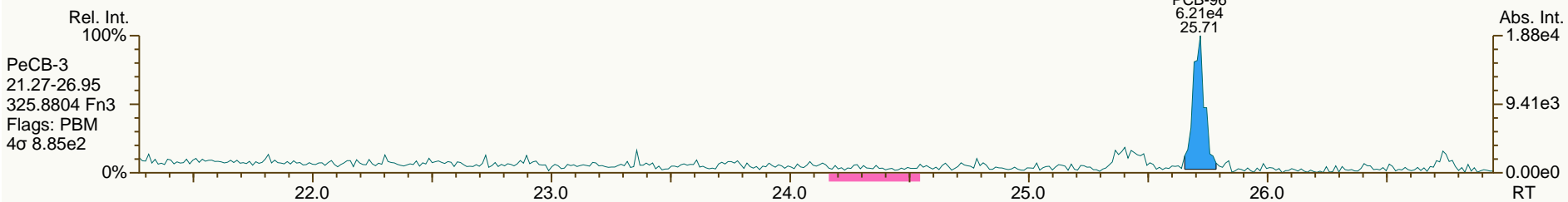
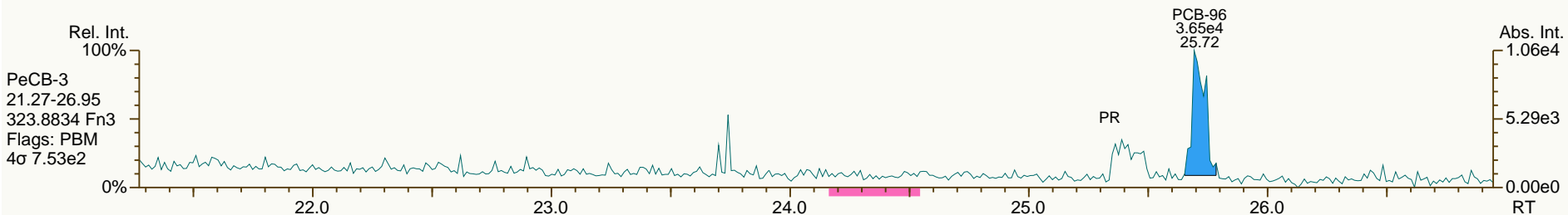
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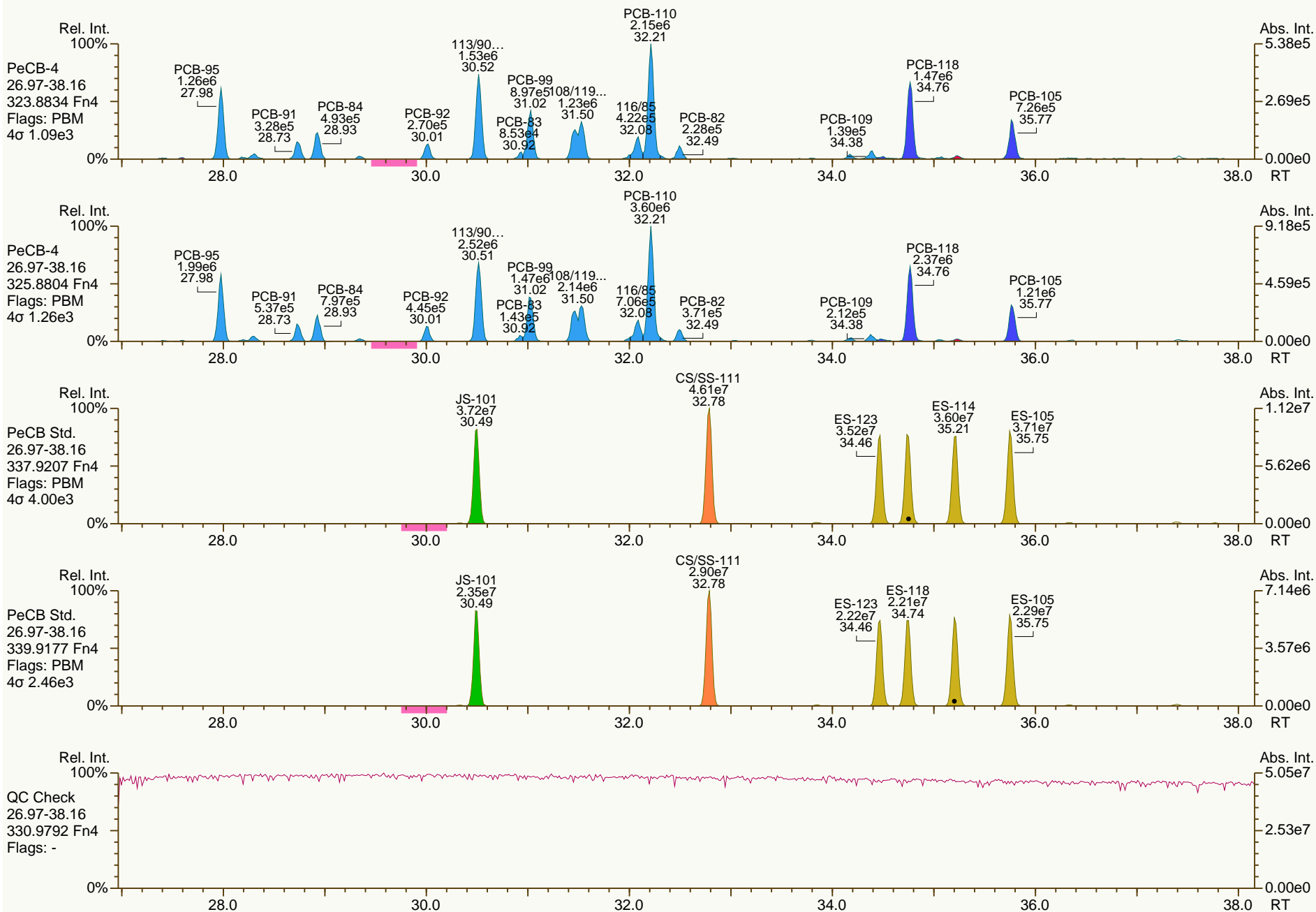
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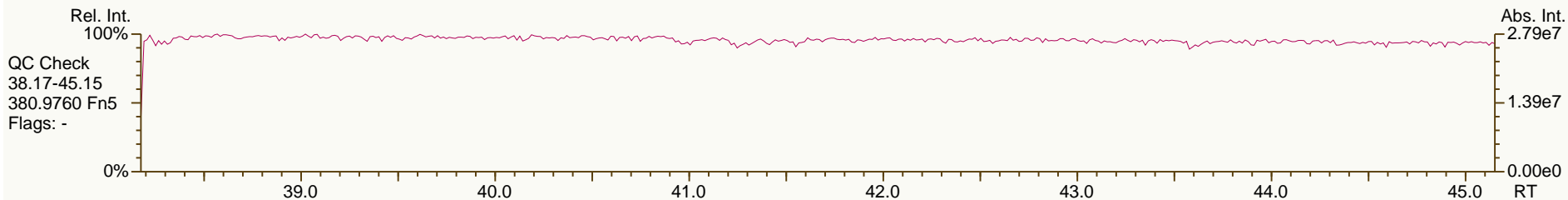
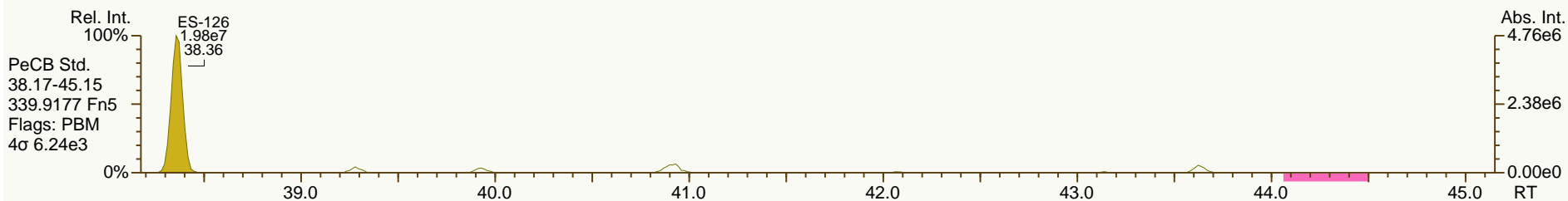
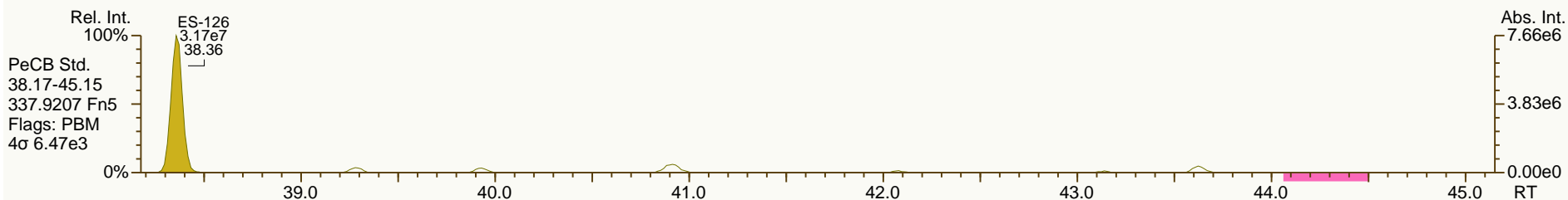
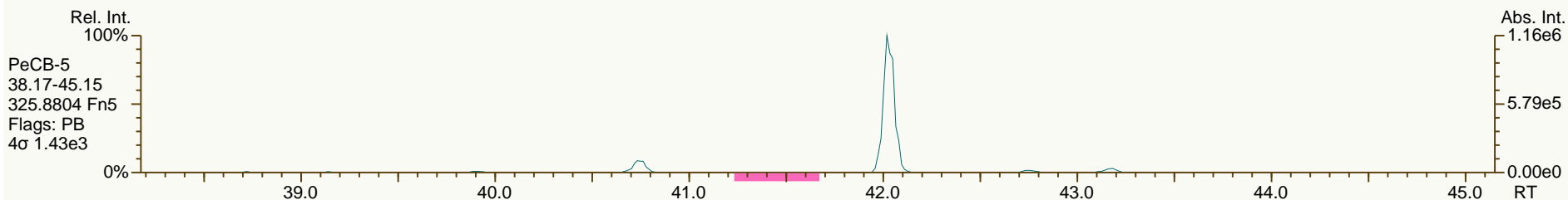
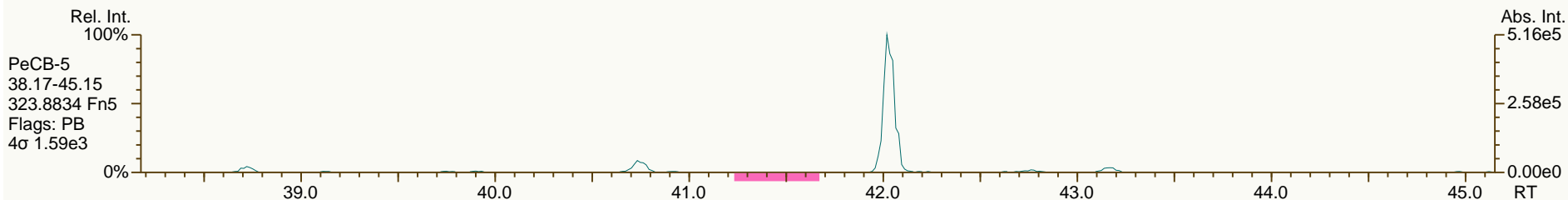




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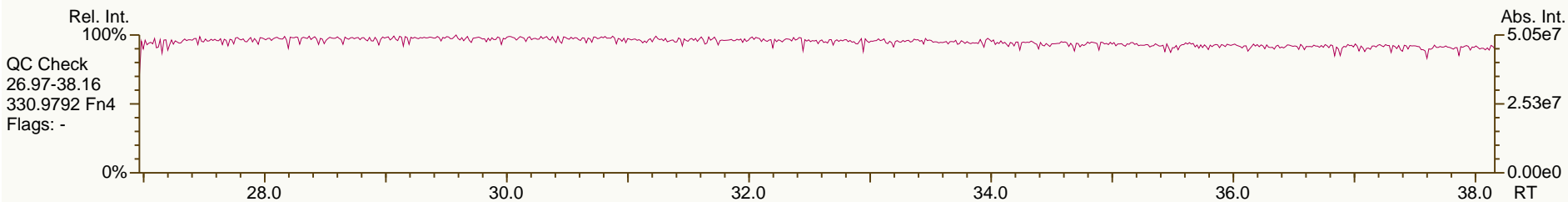
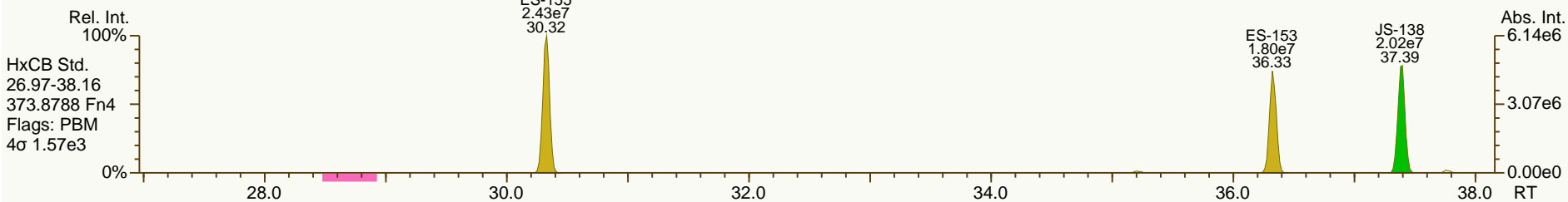
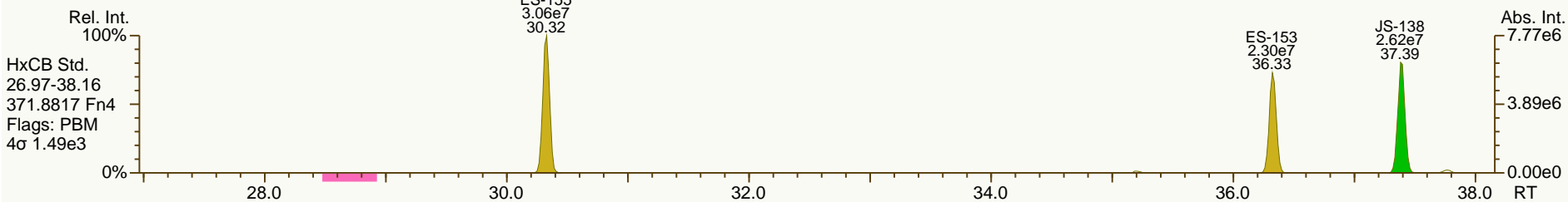
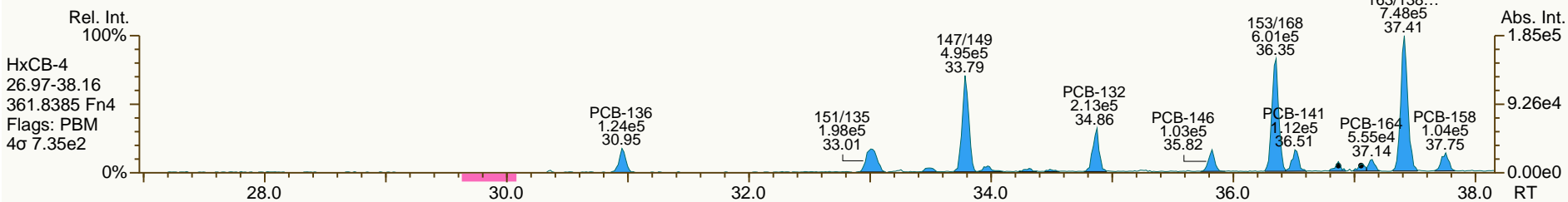
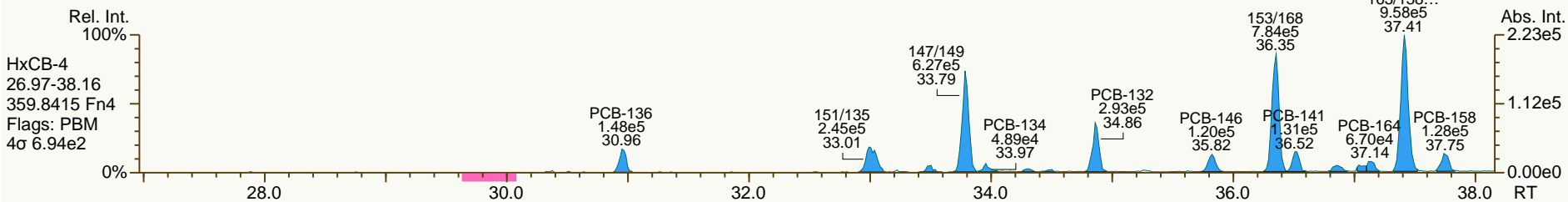
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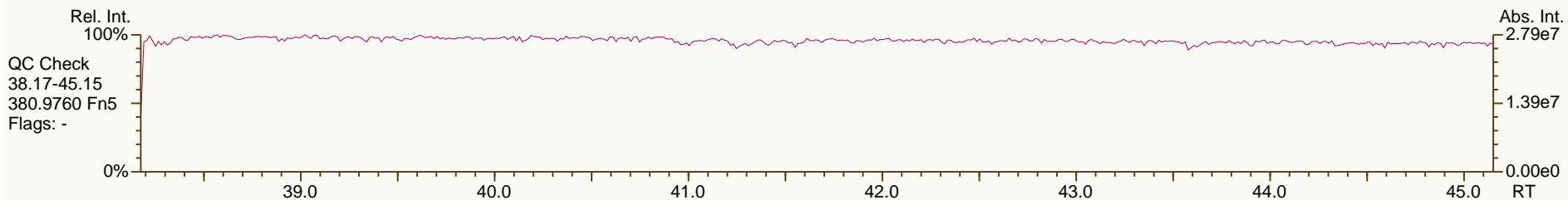
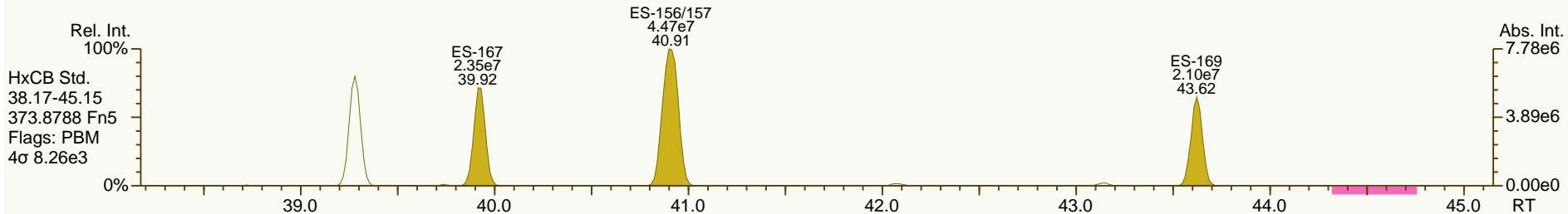
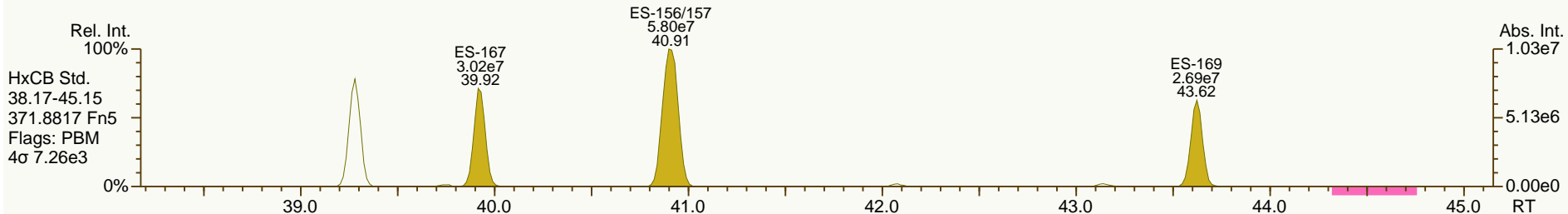
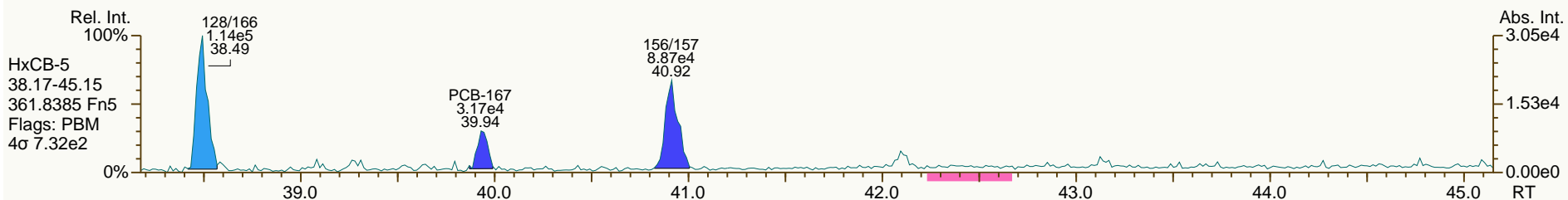
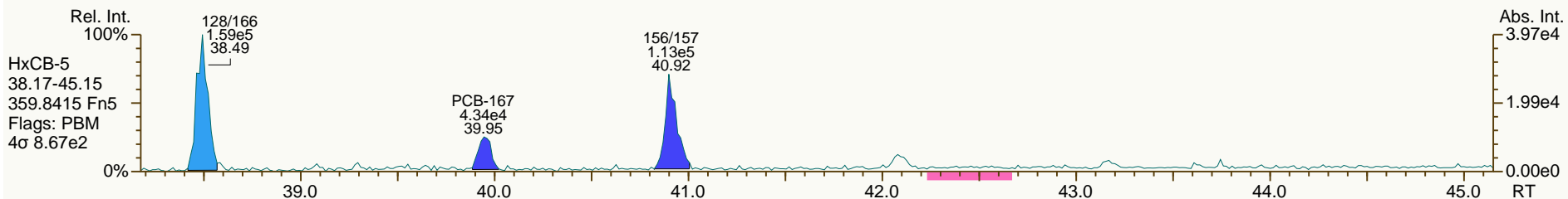
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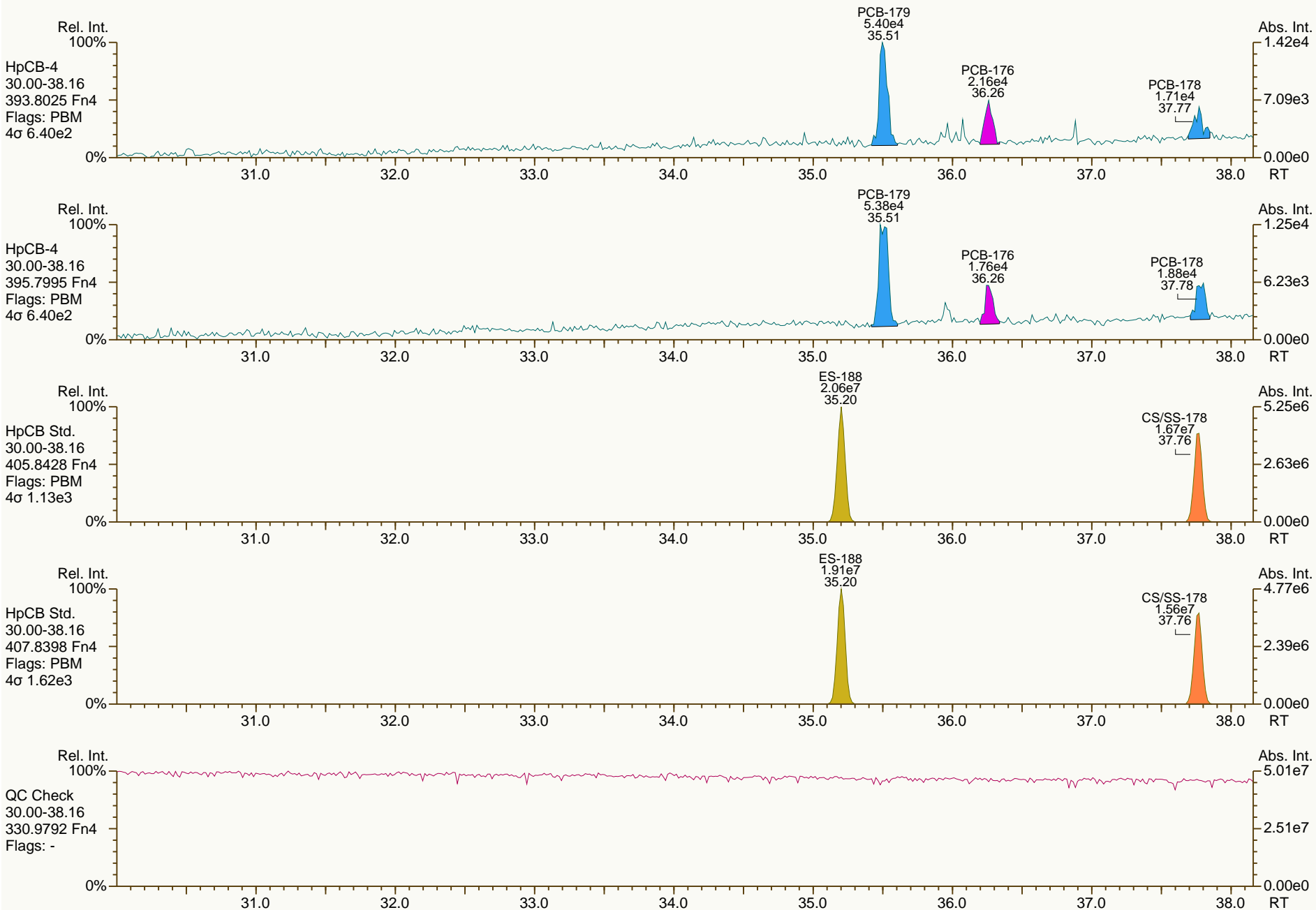
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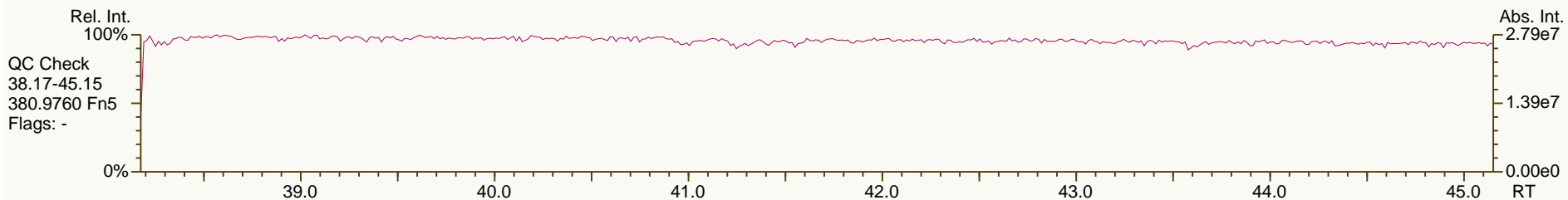
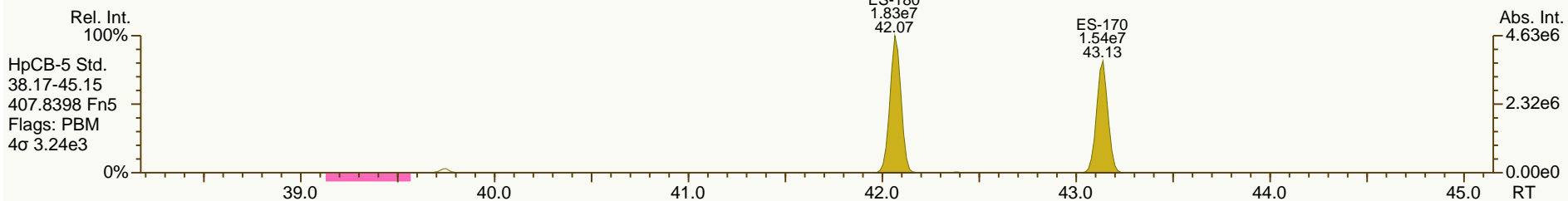
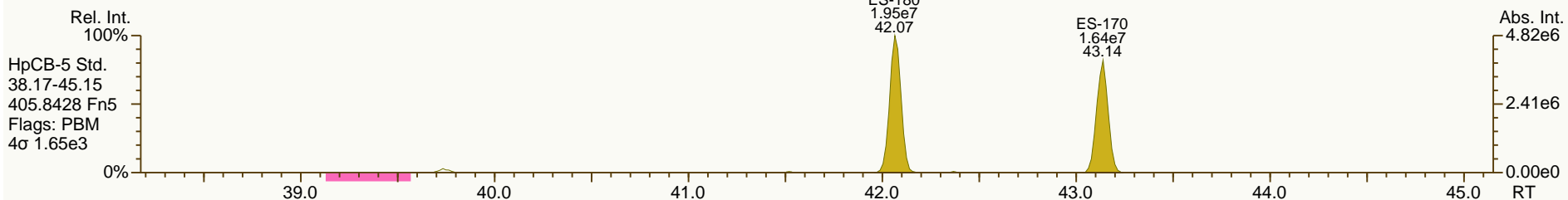
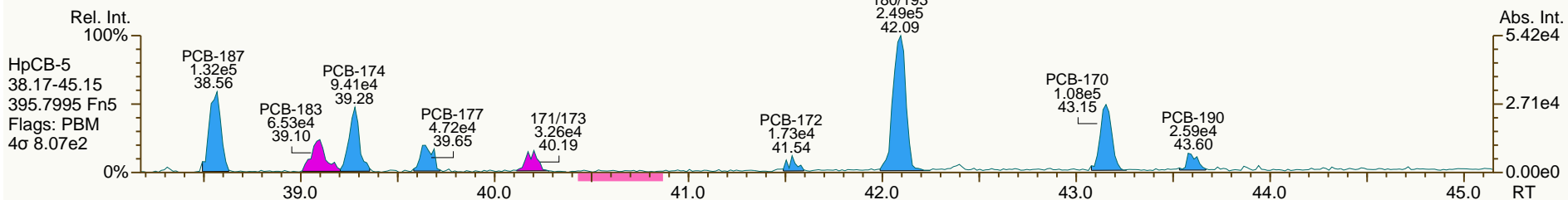
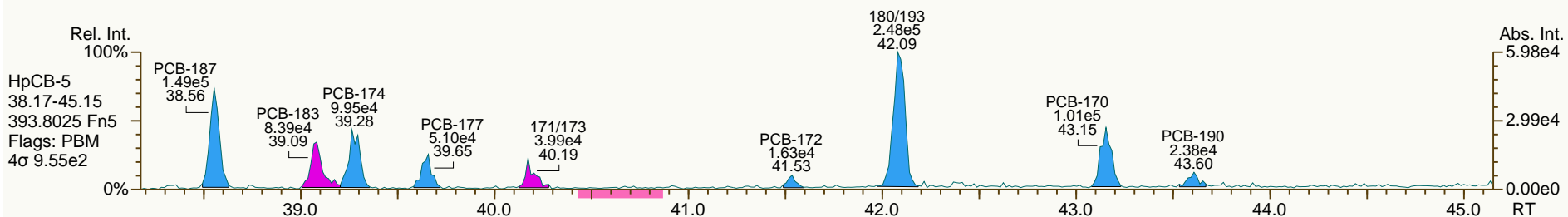
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SGS-AP ID: A6506\_11899\_PCB\_007  
 Instr: AutoSpec-Premier MM7

Sample ID: PB085-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 55

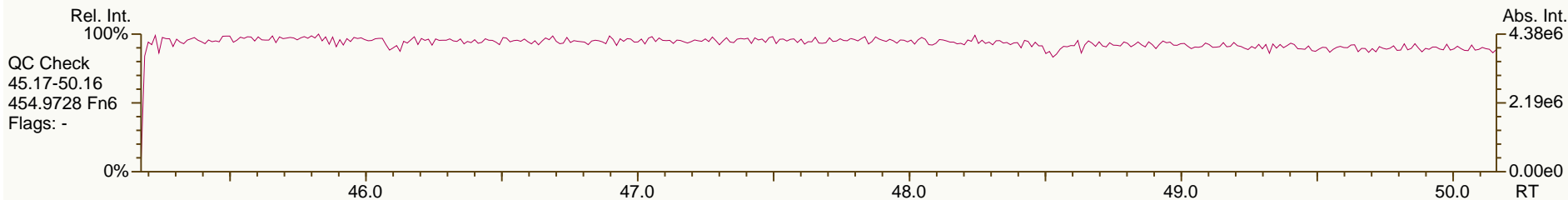
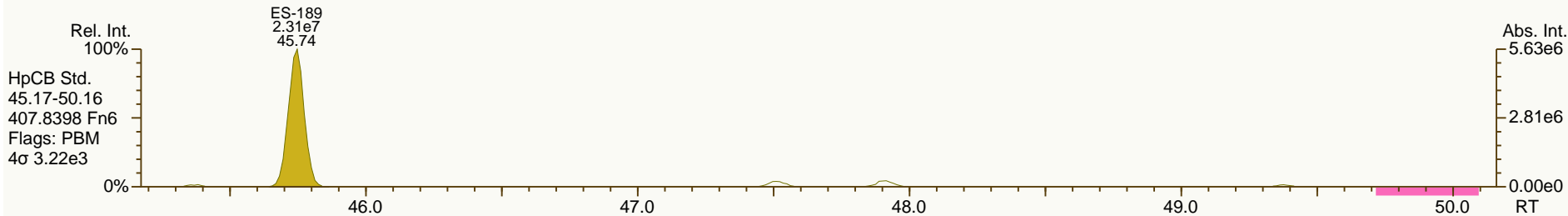
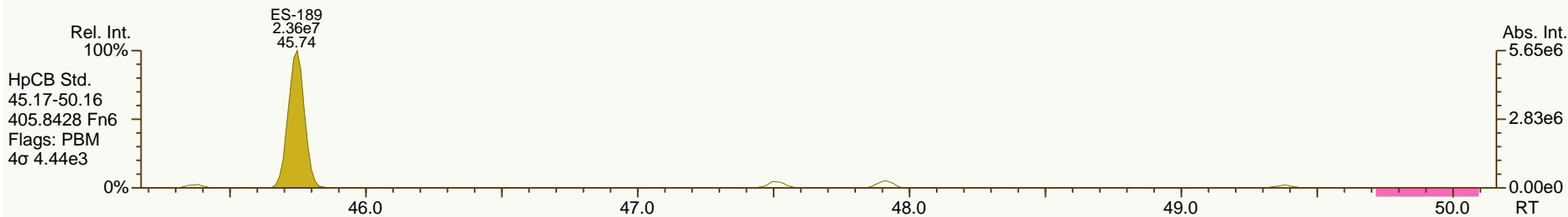
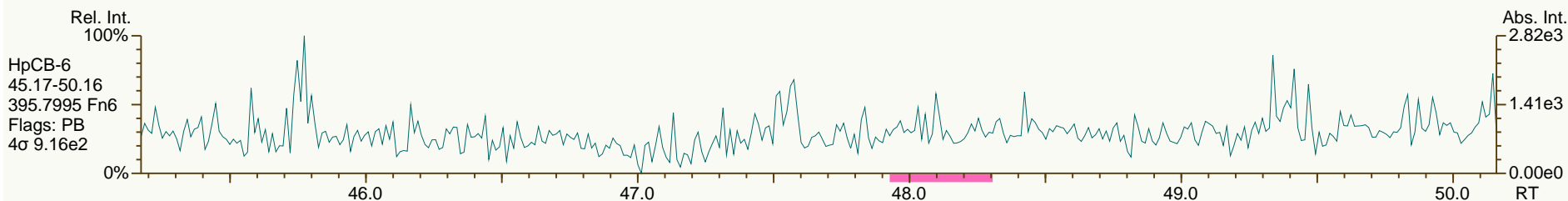
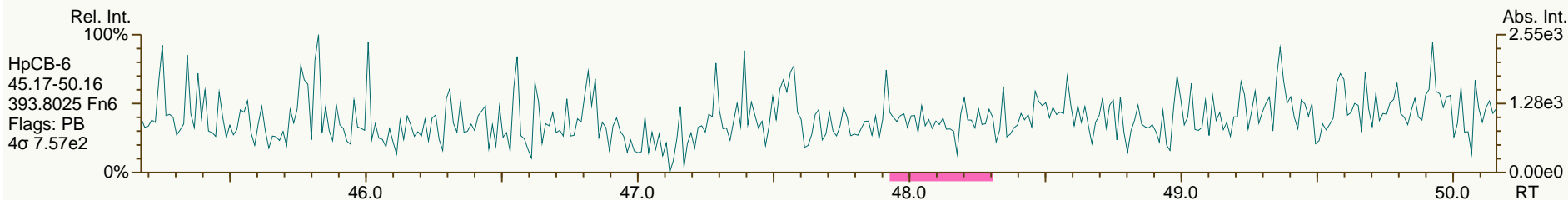
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SGS-AP ID: A6506\_11899\_PCB\_007  
Instr: AutoSpec-Premier MM7

Sample ID: PB085-1SWMID-140314-N (TOTAL)  
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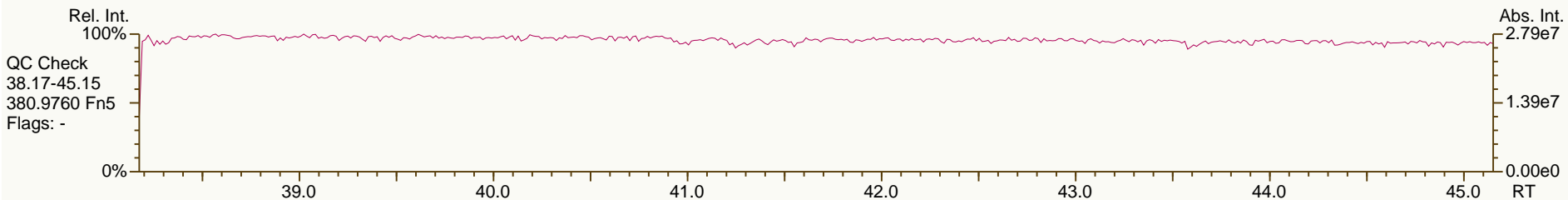
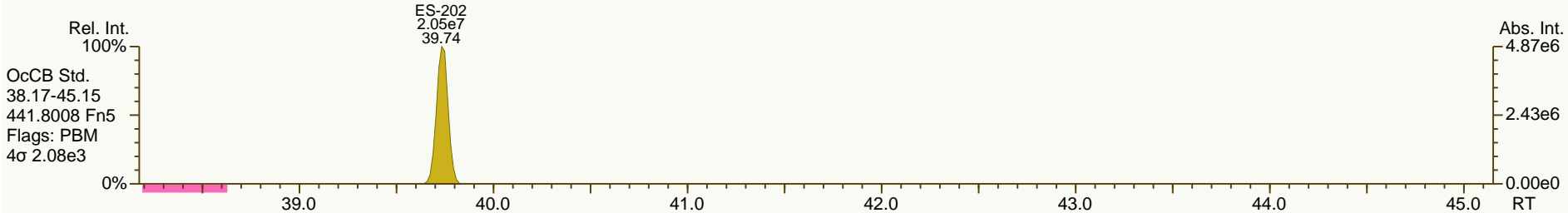
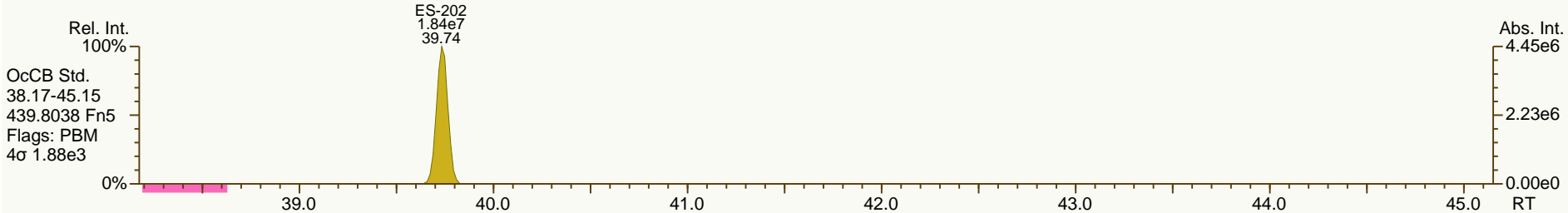
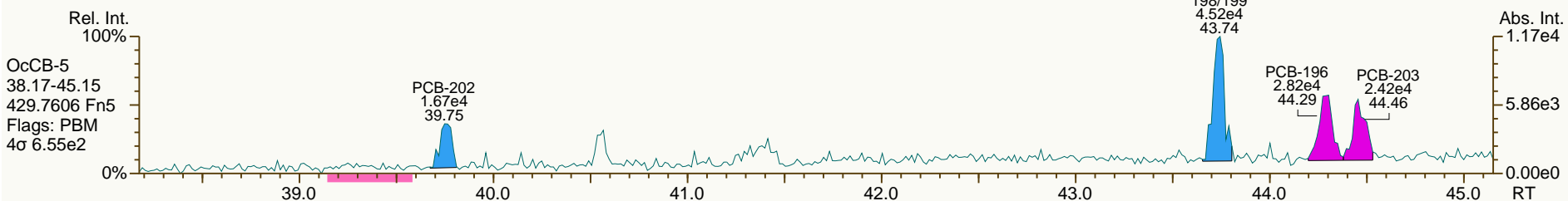
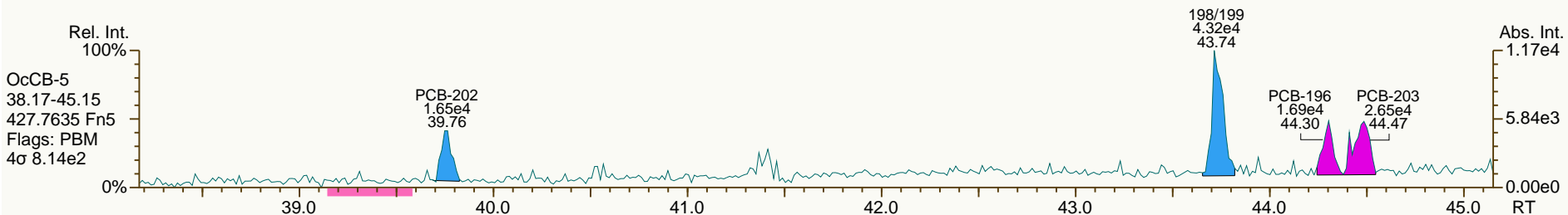
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SGS-AP ID: A6506\_11899\_PCB\_007  
 Instr: AutoSpec-Premier MM7

Sample ID: PB085-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 55

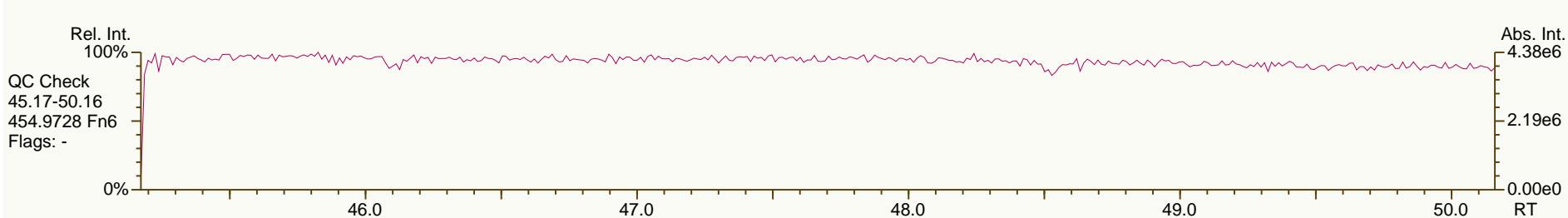
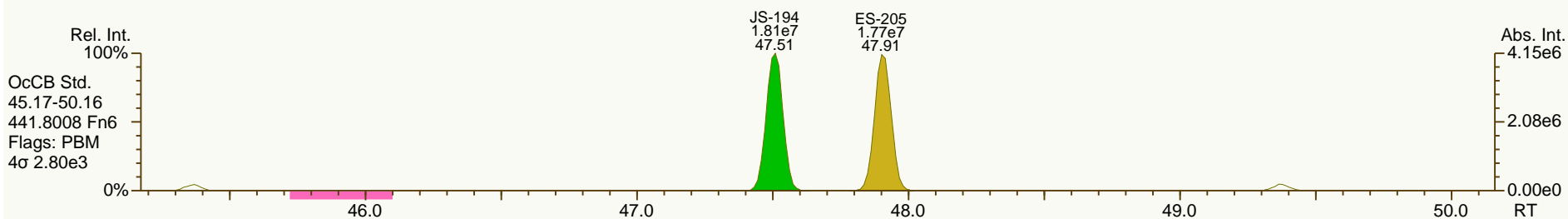
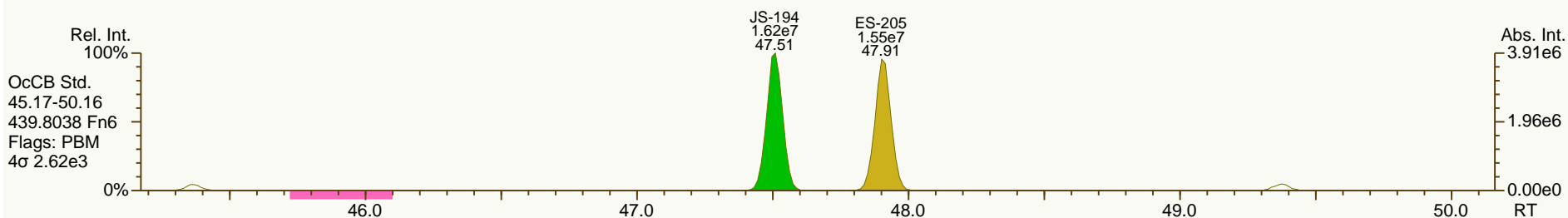
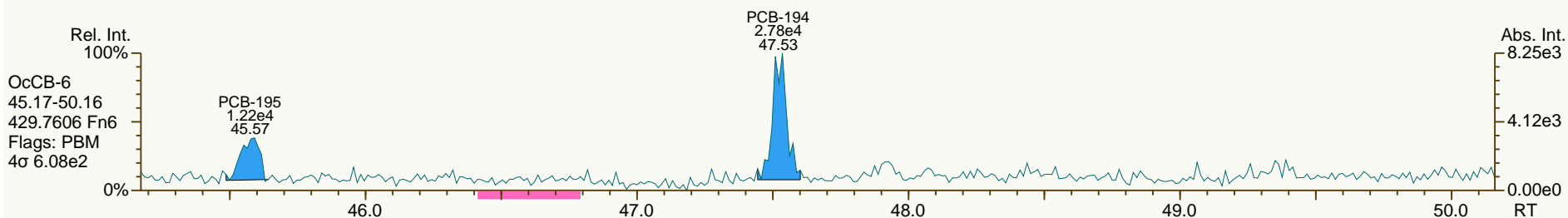
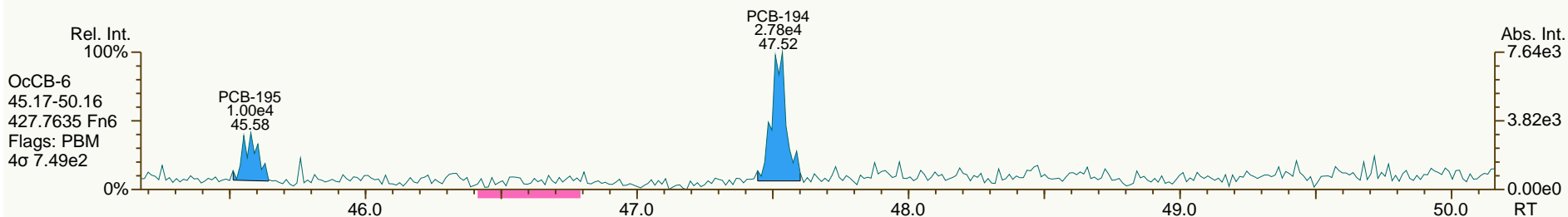
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SGS-AP ID: A6506\_11899\_PCB\_007  
Instr: AutoSpec-Premier MM7

Sample ID: PB085-1SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 55

Acq: 27-Mar-2014 19:49:23  
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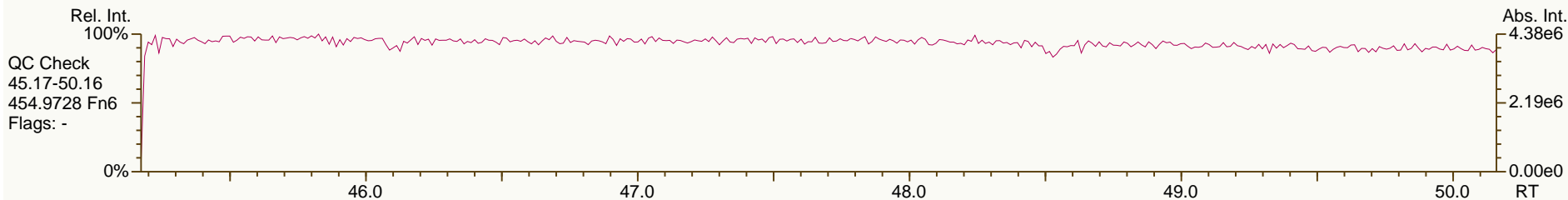
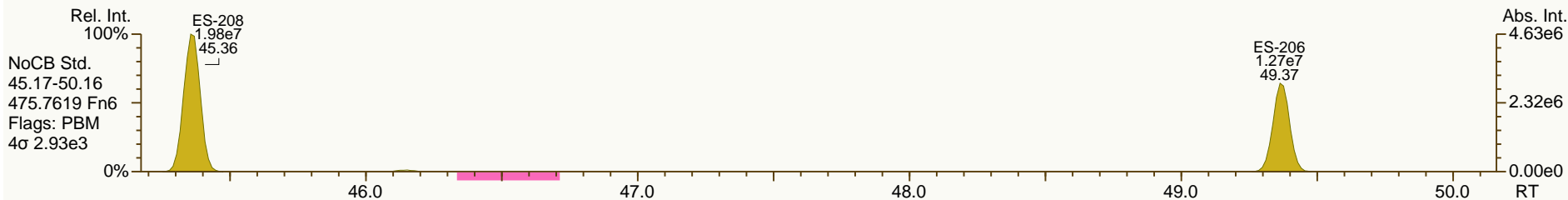
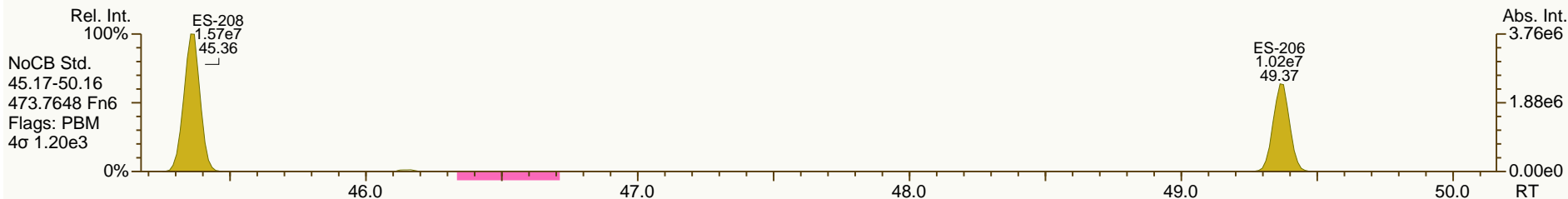
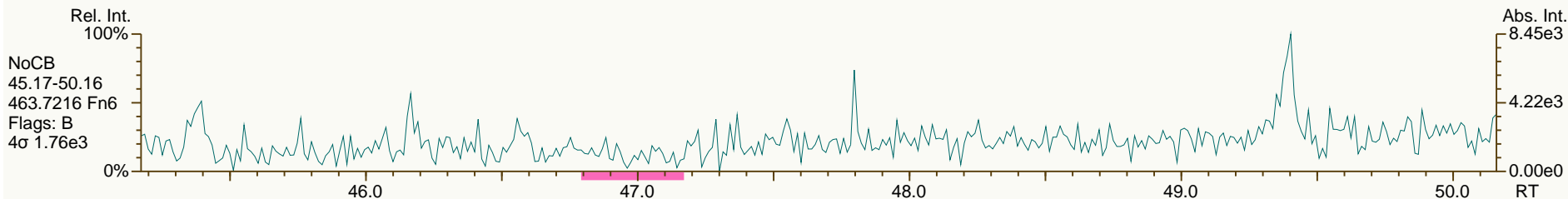
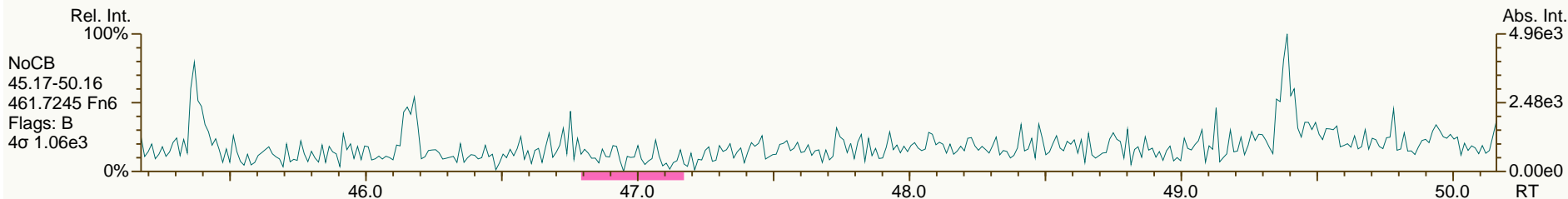




SGS-AP ID: A6506\_11899\_PCB\_007  
 Instr: AutoSpec-Premier MM7

Sample ID: PB085-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 55

Acq: 27-Mar-2014 19:49:23  
 User: LKB Datafile: 140327X11



SGS-AP ID: A6506\_11899\_PCB\_007  
 Instr: AutoSpec-Premier MM7

Sample ID: PB085-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 55

Acq: 27-Mar-2014 19:49:23  
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Lab ID: A6506\_11899\_PCB\_008

ACQ: 27-Mar-2014 20:44:35 LKB

Wt/Vol: 0.96 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA

Client ID: PB097\_A-1SWMID-140314-N (TOTAL)

UTP: 30-Mar-2014 13:53 LKB

J-level: 10.4 pg/L Split: 1

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Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79	J	1.0006	1.0006	0	5.52E+05	0.78	1.15	8.1	4.61E+03	0.708
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.61E+03	0.718
PCB-105 233'44'-PeCB	35.77		1.0006	1.0006	0	1.26E+06	0.60	1.11	23.4	3.06E+03	0.587
PCB-114 2344'5'-PeCB	35.22	J EMPC	1.0007	1.0004	-0.6	8.87E+04	0.77	1.20	1.5	3.06E+03	0.523
PCB-118 23'44'5'-PeCB	34.76		1.0006	1.0007	+0.2	2.59E+06	0.62	1.19	45.9	3.06E+03	0.546
PCB-123 23'44'5'-PeCB	34.48	J EMPC	1.0006	1.0007	+0.2	6.64E+04	0.82	1.21	1.16	3.06E+03	0.546
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.88E+03	0.633
PCB-156/157 ...-HxCB	40.91	J C	1.0005	1.0001	-1.0	1.62E+05	1.11	1.10	3.58	1.76E+03	0.55
PCB-167 23'44'55'-HxCB	39.94	J	1.0006	1.0005	-0.2	5.93E+04	1.06	1.16	1.16	1.76E+03	0.346
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.76E+03	0.435
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.85E+03	0.489
PCB-209 DeCB	50.82	J	1.0004	1.0004	0	6.68E+04	1.11	1.11	2.81	1.15E+03	0.564
ES PCB-1	11.87		0.7245	0.7245	0	6.08E+07	3.23	1.19	31.3 %	15%	150%
ES PCB-3	14.16		0.8640	0.8641	+0.1	7.81E+07	3.33	1.09	44.1 %	15%	150%
ES PCB-4	14.41		0.8795	0.8793	-0.2	4.20E+07	1.61	0.52	49.4 %	25%	150%
ES PCB-15	20.12		1.2271	1.2277	+0.7	1.44E+08	1.57	1.04	84.7 %	25%	150%
ES PCB-19	17.49		1.0673	1.0673	0	5.06E+07	1.06	0.51	61.5 %	25%	150%
ES PCB-37	26.44		1.0787	1.0790	+0.5	1.36E+08	1.10	1.66	78.8 %	25%	150%
ES PCB-54	20.40		0.8328	0.8325	-0.4	6.04E+07	0.77	0.86	67.4 %	25%	150%
ES PCB-77	32.77		1.3364	1.3372	+1.6	1.23E+08	0.80	1.38	85.6 %	25%	150%
ES PCB-81	32.29		1.3170	1.3178	+1.5	1.18E+08	0.80	1.37	83.2 %	25%	150%
ES PCB-104	25.37		0.8325	0.8321	-0.6	7.32E+07	1.62	0.80	95.7 %	25%	150%
ES PCB-105	35.75		1.1720	1.1724	+0.9	1.01E+08	1.61	1.20	88 %	25%	150%
ES PCB-114	35.21		1.1543	1.1546	+0.6	1.02E+08	1.60	1.22	88 %	25%	150%
ES PCB-118	34.74		1.1391	1.1394	+0.6	9.83E+07	1.61	1.16	89.2 %	25%	150%
ES PCB-123	34.46		1.1299	1.1302	+0.6	9.81E+07	1.58	1.19	86.9 %	25%	150%
ES PCB-126	38.36		1.2575	1.2580	+1.2	8.54E+07	1.58	1.03	87.3 %	25%	150%
ES PCB-153	36.32		0.9716	0.9716	0	7.03E+07	1.29	1.11	85.4 %	25%	150%
ES PCB-155	30.32		0.8114	0.8111	-0.5	9.90E+07	1.27	1.59	85.3 %	25%	150%
ES PCB-156/157	40.90		1.0939	1.0941	+0.5	1.71E+08	1.28	1.60	73.3 %	25%	150%
ES PCB-167	39.92		1.0677	1.0678	+0.2	9.12E+07	1.27	1.67	74.8 %	25%	150%
ES PCB-169	43.62		1.1664	1.1667	+0.8	7.85E+07	1.27	1.56	69 %	25%	150%
ES PCB-170	43.13		0.9081	0.9080	-0.3	5.32E+07	1.07	0.95	85.6 %	25%	150%
ES PCB-180	42.07		0.8856	0.8855	-0.3	6.36E+07	1.08	1.14	84.7 %	25%	150%
ES PCB-188	35.20		0.7413	0.7409	-0.8	6.92E+07	1.11	0.94	101 %	25%	150%
ES PCB-189	45.74		0.9629	0.9629	0	7.60E+07	1.03	1.58	89.5 %	25%	150%
ES PCB-202	39.73		0.8366	0.8364	-0.5	6.68E+07	0.93	0.97	94.3 %	25%	150%
ES PCB-205	47.90		1.0084	1.0084	0	5.26E+07	0.89	1.24	78.7 %	25%	150%
ES PCB-206	49.37		1.0392	1.0392	0	3.58E+07	0.80	0.83	80.4 %	25%	150%
ES PCB-208	45.36		0.9549	0.9548	-0.3	6.04E+07	0.80	1.17	95.9 %	25%	150%
ES PCB-209	50.80		1.0694	1.0694	0	4.44E+07	1.18	1.11	74.5 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.88		0.9339	0.9339	0	1.67E+08	1.08	1.11	110 %	30%	135%
SS PCB-111	32.78		1.0750	1.0752	+0.4	1.14E+08	1.60	1.03	113 %	30%	135%
SS PCB-178	37.76		1.0100	1.0100	0	4.94E+07	1.06	0.62	115 %	30%	135%
CS PCB-28	22.88		0.9339	0.9339	0	1.67E+08	1.08	1.85	86.9 %	30%	135%
CS PCB-111	32.78		1.0750	1.0752	+0.4	1.14E+08	1.60	1.22	98.4 %	30%	135%
CS PCB-178	37.76		1.0100	1.0100	0	4.94E+07	1.06	0.58	116 %	30%	135%
JS PCB-9	16.39					1.63E+08	1.57				
JS PCB-52	24.50					1.04E+08	0.80				
JS PCB-101	30.49					9.51E+07	1.61				
JS PCB-138	37.39					7.30E+07	1.31				
JS PCB-194	47.50					5.37E+07	0.90				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	13.7	16.8	1.24		
						Di-CBs	159	174	2.06		
						Tri-CBs	768	770	1.35		
						Tetra-CBs	1,090	1,090	0.61		
						Penta-CBs	450	456	0.533		
						Hexa-CBs	127	132	0.395		
						Hepta-CBs	17.4	33.7	0.508		
						Octa-CBs	4.67	8.77	0.507		
						Nona-CBs	0	0	1.31		
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	3.34E+05	2.92	0.95	12	5.96E+03	1.33
PCB-2 3-MoCB	13.99	J	0.9880	0.9880	0	7.91E+04	2.95	1.20	1.76	5.96E+03	0.969
PCB-3 4-MoCB	14.16	J EMPC	1.0010	1.0003	-0.6	1.15E+05	4.08	1.01	3.04	5.96E+03	1.15
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	1.61E+06	1.49	1.23	64.5	9.58E+03	2.82
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00		1.90	ND	9.58E+03	1.83
PCB-9 25'-DiCB	16.41	J	1.0010	1.0012	+0.2	1.64E+05	SI	1.01	2.34	9.93E+03	1.32
PCB-7 24'-DiCB	16.57	J	1.0111	1.0114	+0.3	1.19E+05	SI	1.14	1.52	9.93E+03	1.17
PCB-6 23'-DiCB	16.80		1.0249	1.0250	+0.1	2.34E+06	1.61	1.06	31.9	9.93E+03	1.25
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.07	ND	9.93E+03	1.24
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	1.80E+06	1.64	1.10	23.7	9.93E+03	1.21
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.27	ND	9.93E+03	1.04
PCB-11 33'-DiCB	19.56	B	0.9721	0.9722	+0.1	1.83E+06	1.60	1.10	24.1	9.93E+03	1.21
PCB-13/12 34'/34'-DiCB	19.83	J C	0.9866	0.9855	-1.3	8.16E+05	1.74	1.10	10.8	9.93E+03	1.21
PCB-15 44'-DiCB	20.13	EMPC	1.0008	1.0007	-0.1	1.08E+06	1.81	1.02	15.3	9.93E+03	1.3
PCB-19 22'6-TrCB	17.51		1.0010	1.0010	0	1.00E+06	1.00	1.15	35.9	5.68E+03	1.72
PCB-30/18 246/22'5-TrCB	19.27	C	1.1014	1.1020	+0.7	5.87E+06	1.08	1.54	157	5.68E+03	1.28
PCB-17 22'4-TrCB	19.67		1.1243	1.1246	+0.4	2.45E+06	1.06	1.32	76.1	5.68E+03	1.49
PCB-27 23'6-TrCB	19.86		1.1353	1.1355	+0.2	5.82E+05	1.04	1.80	13.3	5.68E+03	1.09
PCB-24 236-TrCB	19.98	J EMPC	1.1430	1.1425	-0.6	8.11E+04	1.34	1.71	1.95	5.68E+03	1.15
PCB-16 22'3-TrCB	20.09		1.1484	1.1488	+0.5	1.23E+06	1.11	1.01	49.7	5.68E+03	1.95
PCB-32 24'6-TrCB	20.57		1.1758	1.1762	+0.5	3.45E+06	1.07	1.90	74.5	5.68E+03	1.04

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.73	J	0.8218	0.8217	-0.1	8.68E+04	0.91	1.28	1.04	7.01E+03	0.829
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.28	ND	7.01E+03	0.828
PCB-26/29 23'5'/245-TrCB	22.13	C	0.8383	0.8370	-1.7	2.92E+06	1.01	1.29	34.6	7.01E+03	0.82
PCB-25 23'4'-TrCB	22.35		0.8456	0.8454	-0.3	3.61E+06	1.04	1.28	42.9	7.01E+03	0.823
PCB-31 24'5'-TrCB	22.63		0.8562	0.8560	-0.3	8.78E+06	1.00	1.34	99.7	7.01E+03	0.786
PCB-28/20 244'/233'-TrCB	22.91	C	0.8670	0.8664	-0.8	9.64E+06	1.02	1.25	117	7.01E+03	0.844
PCB-21/33 234'/23'4'-TrCB	23.12	J C	0.8738	0.8743	+0.7	1.42E+06	0.99	1.29	16.8	7.01E+03	0.821
PCB-22 234'-TrCB	23.47		0.8880	0.8878	-0.3	2.37E+06	0.99	1.20	30.1	7.01E+03	0.879
PCB-36 33'5'-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	7.01E+03	0.801
PCB-39 34'5'-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	7.01E+03	0.778
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.21	ND	7.01E+03	0.87
PCB-35 33'4'-TrCB	26.09	J	0.9871	0.9868	-0.5	2.31E+05	1.03	1.16	3.04	7.01E+03	0.914
PCB-37 344'-TrCB	26.47		1.0007	1.0010	+0.5	1.12E+06	1.06	1.08	15.8	7.01E+03	0.981
PCB-54 22'66'-TeCB	20.41	J	1.0010	1.0006	-0.5	5.38E+04	0.87	1.35	1.37	2.42E+03	0.541
PCB-50/53 22'46'/22'56'-TeCB	22.38	C	0.9145	0.9134	-1.5	1.75E+06	0.78	0.92	33.3	2.82E+03	0.532
PCB-45 22'36'-TeCB	22.99		0.9383	0.9383	0	1.10E+06	0.82	0.80	24	2.82E+03	0.614
PCB-51 22'46'-TeCB	23.06		0.9413	0.9412	-0.1	1.28E+06	0.77	0.93	24.2	2.82E+03	0.532
PCB-46 22'36'-TeCB	23.27		0.9499	0.9498	-0.1	5.27E+05	0.87	0.73	12.6	2.82E+03	0.671
PCB-52 22'55'-TeCB	24.53		1.0009	1.0009	0	9.49E+06	0.79	0.89	186	2.82E+03	0.55
PCB-73 23'5'6'-TeCB	24.66	J EMPC	1.0062	1.0062	0	4.77E+04	1.09	1.18	0.711	2.82E+03	0.417
PCB-43 22'35'-TeCB	24.75	J	1.0101	1.0101	0	2.51E+05	0.84	0.77	5.72	2.82E+03	0.638
PCB-69/49 23'46'/22'45'-TeCB	24.97	C	1.0181	1.0189	+1.2	6.51E+06	0.80	1.10	104	2.82E+03	0.448
PCB-48 22'45'-TeCB	25.23		1.0295	1.0295	0	1.04E+06	0.89	0.91	20.1	2.82E+03	0.542
PCB-44/47/65 ...-TeCB	25.42	C	1.0384	1.0376	-1.2	9.20E+06	0.80	0.96	168	2.82E+03	0.51
PCB-59/62/75 ...-TeCB	25.71	J C	1.0496	1.0494	-0.3	8.34E+05	0.77	1.25	11.7	2.82E+03	0.394
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	1.95E+06	0.82	0.83	41.2	2.82E+03	0.591
PCB-41 22'34'-TeCB	26.22	J	1.0698	1.0700	+0.3	3.42E+05	0.83	0.73	8.24	2.82E+03	0.673
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0740	+0.5	3.64E+06	0.81	0.93	68.8	2.82E+03	0.529
PCB-64 234'6'-TeCB	26.51		1.0819	1.0820	+0.2	4.23E+06	0.80	1.32	56.4	2.82E+03	0.373
PCB-72 23'55'-TeCB	27.23	J	0.8436	0.8432	-0.7	7.73E+04	0.79	1.29	1.05	4.61E+03	0.622
PCB-68 23'45'-TeCB	27.49		0.8515	0.8512	-0.5	1.30E+06	0.79	1.37	16.7	4.61E+03	0.587
PCB-57 233'5'-TeCB	NotFnd		0.8630	-		0.00E+00		1.23	ND	4.61E+03	0.652
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.26	ND	4.61E+03	0.637
PCB-67 23'45'-TeCB	28.22	J EMPC	0.8741	0.8738	-0.5	1.74E+05	0.95	1.31	2.34	4.61E+03	0.614
PCB-63 234'5'-TeCB	28.45	J	0.8811	0.8810	-0.2	3.89E+05	0.82	1.36	5.02	4.61E+03	0.59
PCB-61/70/74/76 ...-TeCB	28.75	C	0.8902	0.8903	+0.2	1.00E+07	0.78	1.24	142	4.61E+03	0.645
PCB-66 23'44'-TeCB	29.02		0.8989	0.8987	-0.3	5.86E+06	0.78	1.17	88.3	4.61E+03	0.688
PCB-55 233'4'-TeCB	29.17	J	0.9034	0.9035	+0.2	8.90E+04	0.88	1.17	1.33	4.61E+03	0.683
PCB-56 233'4'-TeCB	29.60		0.9169	0.9167	-0.4	2.99E+06	0.79	1.16	45.2	4.61E+03	0.69
PCB-60 2344'-TeCB	29.79		0.9229	0.9227	-0.4	1.17E+06	0.82	1.18	17.5	4.61E+03	0.683
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.37	ND	4.61E+03	0.587
PCB-79 33'45'-TeCB	31.45	J	0.9737	0.9741	+0.8	6.99E+04	0.82	1.38	0.891	4.61E+03	0.582
PCB-78 33'45'-TeCB	NotFnd		0.9889	-		0.00E+00		1.11	ND	4.61E+03	0.723
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.93E+03	0.363
PCB-96 22'366'-PeCB	25.71	J EMPC	1.0134	1.0133	-0.2	6.57E+04	0.72	1.20	1.56	1.93E+03	0.435
PCB-103 22'45'6'-PeCB	NotFnd		0.8989	-		0.00E+00		0.95	ND	3.06E+03	0.699
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.79	ND	3.06E+03	0.833
PCB-95 22'35'6'-PeCB	27.97		0.9176	0.9175	-0.2	2.31E+06	0.61	0.86	56.5	3.06E+03	0.766

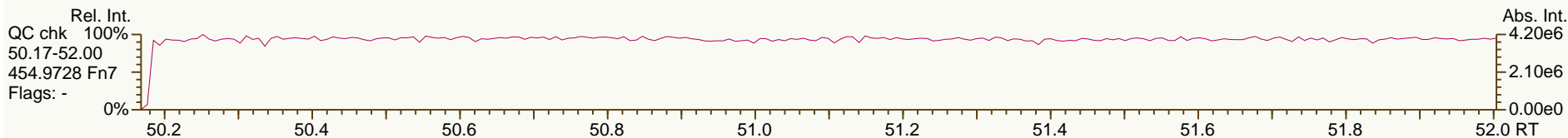
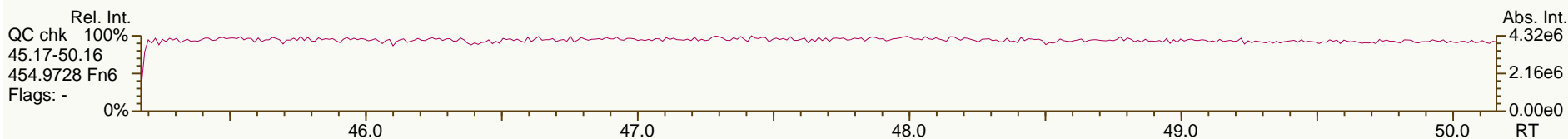
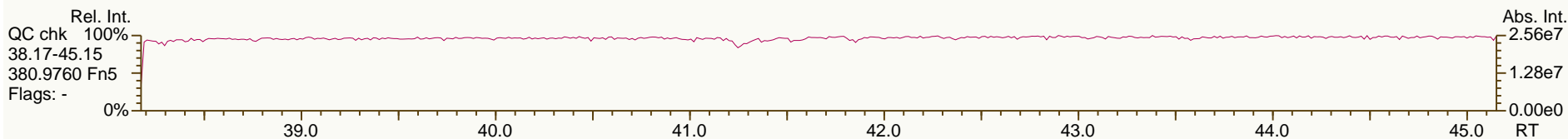
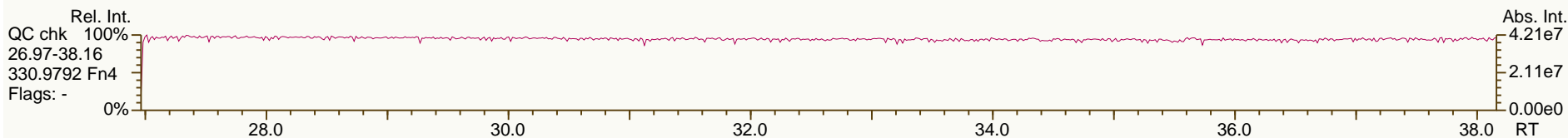
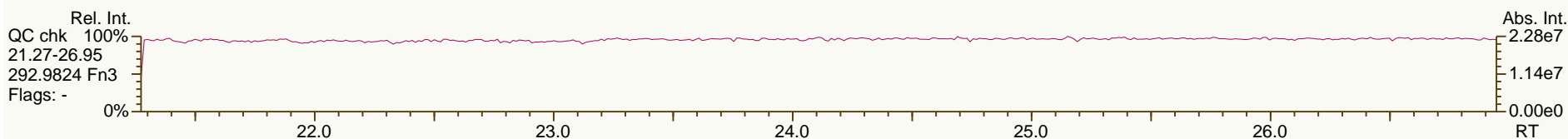
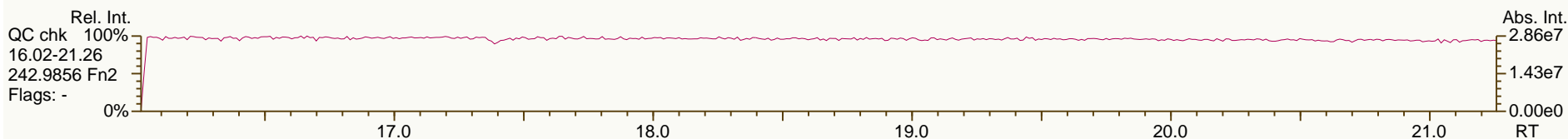
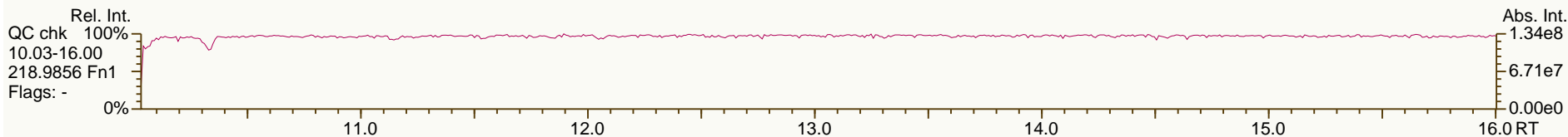
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356-PeCB	28.20	J C	0.9246	0.9247	+0.2	6.26E+04	0.59	0.88	1.51	3.06E+03	0.757
PCB-102 22'456'-PeCB	28.30	J	0.9282	0.9281	-0.2	1.76E+05	0.65	1.04	3.59	3.06E+03	0.635
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.73	ND	3.06E+03	0.911
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.79	ND	3.06E+03	0.836
PCB-91 22'34'6-PeCB	28.73		0.9424	0.9423	-0.2	6.07E+05	0.61	0.91	14.1	3.06E+03	0.724
PCB-84 22'33'6-PeCB	28.92		0.9487	0.9487	0	8.85E+05	0.61	0.72	25.9	3.06E+03	0.916
PCB-89 22'346'-PeCB	29.35	J EMPC	0.9624	0.9625	+0.2	7.40E+04	0.83	0.76	2.05	3.06E+03	0.866
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.22	ND	3.06E+03	0.543
PCB-92 22'355'-PeCB	30.00		0.9841	0.9841	0	4.86E+05	0.59	0.83	12.5	3.06E+03	0.802
PCB-113/90/101 ...-PeCB	30.51	C	0.9999	1.0007	+1.5	2.77E+06	0.63	0.98	59.8	3.06E+03	0.674
PCB-83 22'33'5-PeCB	30.92	J	1.0142	1.0141	-0.2	1.65E+05	0.58	0.71	4.89	3.06E+03	0.927
PCB-99 22'44'5-PeCB	31.02		1.0173	1.0174	+0.2	1.59E+06	0.63	0.91	37.1	3.06E+03	0.73
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	3.06E+03	0.566
PCB-108/119/86/97/125...-PeCB	31.49	J C	1.0320	1.0329	+1.7	2.36E+06	0.61	1.00	50.3	3.06E+03	0.665
PCB-117 234'56-PeCB	32.01	J	1.0495	1.0499	+0.8	1.73E+05	0.57	1.05	3.48	3.06E+03	0.63
PCB-116/85 23456/22'344'-PeCB	32.08	J C	1.0525	1.0523	-0.4	6.47E+05	0.59	0.98	13.9	3.06E+03	0.673
PCB-110 233'4'6-PeCB	32.21		1.0561	1.0564	+0.6	3.89E+06	0.61	1.12	73.9	3.06E+03	0.594
PCB-115 2344'6-PeCB	32.30	J	1.0590	1.0592	+0.4	1.22E+05	0.68	1.15	2.25	3.06E+03	0.578
PCB-82 22'33'4-PeCB	32.49		1.0655	1.0657	+0.4	4.10E+05	0.64	0.69	12.5	3.06E+03	0.956
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.20	ND	3.06E+03	0.55
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.06E+03	0.541
PCB-107/124 ...-PeCB	34.17	J C	0.9916	0.9916	0	1.28E+05	0.61	1.10	2.47	3.06E+03	0.604
PCB-109 233'46-PeCB	34.38	J	0.9976	0.9975	-0.2	2.60E+05	0.62	1.24	4.45	3.06E+03	0.534
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		1.08	ND	3.06E+03	0.615
PCB-122 233'4'5'-PeCB	35.07	J	1.0091	1.0094	+0.6	4.76E+04	0.68	1.00	0.968	3.06E+03	0.626
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.09	ND	3.06E+03	0.602
PCB-155 22'44'66'-HxCB	30.34	J	1.0007	1.0006	-0.2	3.84E+04	1.26	1.26	0.64	1.49E+03	0.25
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.11	ND	1.49E+03	0.284
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.12	ND	1.49E+03	0.281
PCB-136 22'33'66'-HxCB	30.95	J B	1.0207	1.0209	+0.4	2.04E+05	1.24	1.03	4.17	1.49E+03	0.306
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.05	ND	1.49E+03	0.3
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.12	ND	1.49E+03	0.388
PCB-151/135 ...-HxCB	33.01	J C	1.0886	1.0885	-0.2	3.31E+05	1.19	1.06	9.19	1.49E+03	0.41
PCB-154 22'44'56'-HxCB	NotFnd		1.0954	-		0.00E+00		1.25	ND	1.49E+03	0.35
PCB-144 22'345'6-HxCB	33.48	J EMPC	1.1041	1.1043	+0.4	4.52E+04	1.05	1.10	1.21	1.49E+03	0.396
PCB-147/149 ...-HxCB	33.78	J B C	1.1141	1.1142	+0.2	7.70E+05	1.24	1.11	20.6	1.49E+03	0.395
PCB-134 22'33'56-HxCB	33.96	J	1.1199	1.1200	+0.2	6.23E+04	1.25	0.79	2.34	1.49E+03	0.554
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.10	ND	1.49E+03	0.395
PCB-139/140 ...-HxCB	34.30	J C	1.1312	1.1312	0	3.13E+04	1.25	1.11	0.835	1.49E+03	0.393
PCB-131 22'33'46-HxCB	34.49	J	1.1369	1.1373	+0.8	2.25E+04	1.39	0.94	0.706	1.49E+03	0.464
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.93	ND	1.49E+03	0.471
PCB-132 22'33'46'-HxCB	34.86	B	1.1494	1.1497	+0.6	3.57E+05	1.17	0.97	10.9	1.49E+03	0.45
PCB-133 22'33'55'-HxCB	35.26	J	1.1626	1.1629	+0.6	2.24E+04	1.12	1.04	0.634	1.49E+03	0.418
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.31	ND	1.49E+03	0.333
PCB-146 22'34'55'-HxCB	35.82	J	0.9582	0.9581	-0.2	1.79E+05	1.23	1.14	4.65	1.49E+03	0.383
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.42	ND	1.49E+03	0.308
PCB-153/168 ...-HxCB	36.34	B C	0.9728	0.9722	-1.3	9.85E+05	1.26	1.39	21	1.49E+03	0.314
PCB-141 22'3455'-HxCB	36.51	J	0.9766	0.9766	0	1.64E+05	1.29	1.03	4.67	1.49E+03	0.422

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.86	J EMPC	0.9859	0.9860	+0.2	5.95E+04	1.05	0.92	1.92	1.49E+03	0.475
PCB-137 22'344'5'-HxCB	37.05	J	0.9911	0.9911	0	5.42E+04	1.12	1.14	1.41	1.49E+03	0.384
PCB-164 233'4'5'6'-HxCB	37.13	J EMPC	0.9933	0.9932	-0.2	8.36E+04	1.04	1.38	1.79	1.49E+03	0.316
PCB-163/138/129 ...-HxCB	37.41	C	1.0011	1.0007	-0.9	1.21E+06	1.24	1.11	32.3	1.49E+03	0.392
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.30	ND	1.49E+03	0.335
PCB-158 233'44'6'-HxCB	37.75	J	1.0096	1.0096	0	1.54E+05	1.16	1.50	3.04	1.49E+03	0.292
PCB-128/166 ...-HxCB	38.49	J C	0.9641	0.9642	+0.2	1.97E+05	1.18	0.89	5.02	1.76E+03	0.45
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.07	ND	1.76E+03	0.375
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.76E+03	0.378
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.38E+03	0.335
PCB-179 22'33'566'-HpCB	35.50	J	1.0086	1.0086	0	8.09E+04	0.96	1.08	2.25	1.38E+03	0.394
PCB-184 22'344'66'-HpCB	35.96	J EMPC	1.0216	1.0217	+0.2	2.89E+04	0.74	1.03	0.846	1.38E+03	0.415
PCB-176 22'33'466'-HpCB	36.26	J EMPC	1.0300	1.0303	+0.7	2.20E+04	0.81	1.14	0.581	1.38E+03	0.373
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.38E+03	0.398
PCB-178 22'33'55'6'-HpCB	37.79	J	1.0733	1.0736	+0.7	2.82E+04	1.00	0.76	1.12	1.38E+03	0.561
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.08	ND	1.86E+03	0.572
PCB-187 22'34'55'6'-HpCB	38.55	J EMPC	1.0952	1.0953	+0.2	1.94E+05	1.24	1.15	5.53	1.86E+03	0.538
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.19	ND	1.86E+03	0.52
PCB-183 22'344'5'6'-HpCB	39.08	J EMPC	1.1101	1.1102	+0.2	9.30E+04	1.23	1.22	2.49	1.86E+03	0.506
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.03	ND	1.86E+03	0.599
PCB-174 22'33'456'-HpCB	39.27	J	1.1156	1.1158	+0.5	1.34E+05	1.01	0.98	4.48	1.86E+03	0.63
PCB-177 22'33'45'6'-HpCB	39.65	J EMPC	1.1262	1.1264	+0.5	5.87E+04	1.47	0.95	2.03	1.86E+03	0.653
PCB-181 22'344'56'-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.86E+03	0.578
PCB-171/173 ...-HpCB	40.20	J EMPC C	1.1413	1.1421	+1.9	3.54E+04	0.88	0.95	1.22	1.86E+03	0.654
PCB-172 22'33'455'-HpCB	NotFnd		0.9080	-		0.00E+00		0.97	ND	1.86E+03	0.637
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.26	ND	1.86E+03	0.49
PCB-180/193 ...-HpCB	42.08	J B C	0.9194	0.9200	+1.5	3.32E+05	1.13	1.24	8.74	1.86E+03	0.498
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.35	ND	1.86E+03	0.458
PCB-170 22'33'44'5'-HpCB	43.15	J EMPC	0.9434	0.9434	0	1.06E+05	1.28	1.14	3.63	1.86E+03	0.672
PCB-190 233'44'56'-HpCB	43.59	J	0.9533	0.9530	-0.8	3.30E+04	1.15	1.56	0.829	1.86E+03	0.491
PCB-202 22'33'55'66'-OoCB	39.76	J EMPC	1.0005	1.0006	+0.2	2.41E+04	1.22	1.05	0.712	1.55E+03	0.465
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.13	ND	1.55E+03	0.432
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.55E+03	0.464
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.13	ND	1.55E+03	0.433
PCB-200 22'33'4566'-OoCB	NotFnd		1.0418	-		0.00E+00		1.07	ND	1.55E+03	0.456
PCB-198/199 ...-OoCB	43.74	J EMPC C	1.1001	1.1008	+1.8	7.83E+04	1.08	0.72	3.38	1.55E+03	0.68
PCB-196 22'33'44'56'-OoCB	44.29	J	1.1146	1.1146	0	2.72E+04	0.81	0.76	1.11	1.55E+03	0.641
PCB-203 22'344'55'6'-OoCB	44.47	J	1.1188	1.1191	+0.8	4.06E+04	0.85	0.77	1.64	1.55E+03	0.635
PCB-195 22'33'44'56'-OoCB	NotFnd		0.9516	-		0.00E+00		0.80	ND	1.42E+03	0.73
PCB-194 22'33'44'55'-OoCB	47.52	J	0.9921	0.9921	0	4.15E+04	0.89	0.85	1.93	1.42E+03	0.682
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.42E+03	0.548
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.04E+03	0.961
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.13	ND	3.04E+03	0.953
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.04E+03	1.66

SGS-AP ID: A6506\_11899\_PCB\_008  
Instr: AutoSpec-Premier MM7

Sample ID: PB097\_A-1SWMID-140314-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 56

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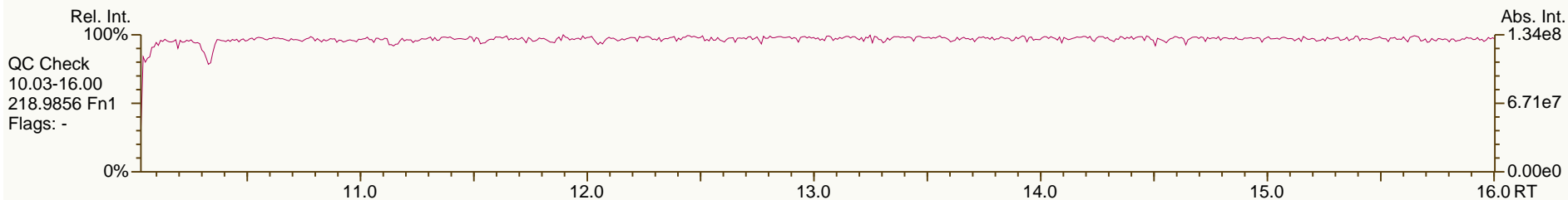
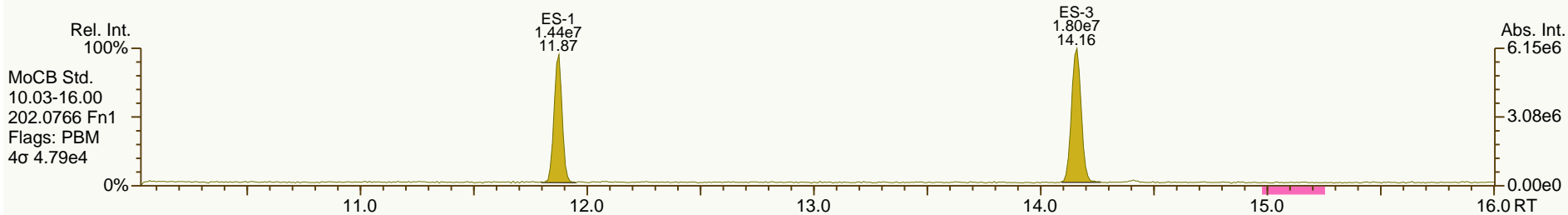
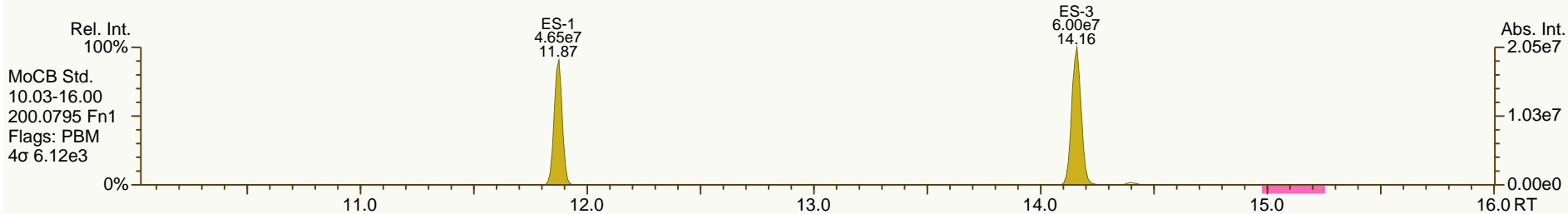
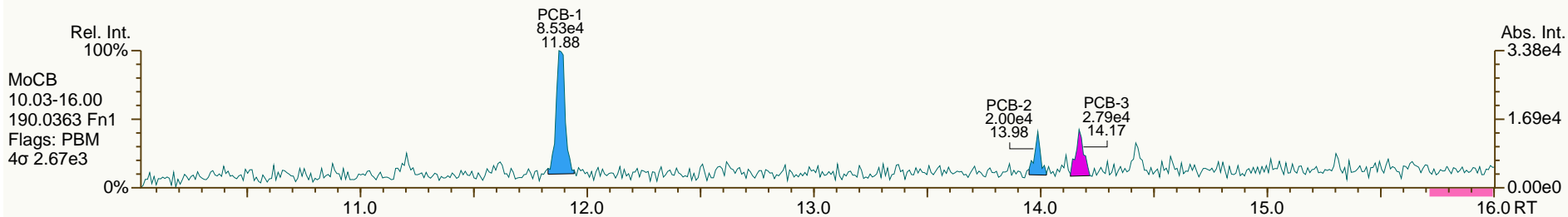
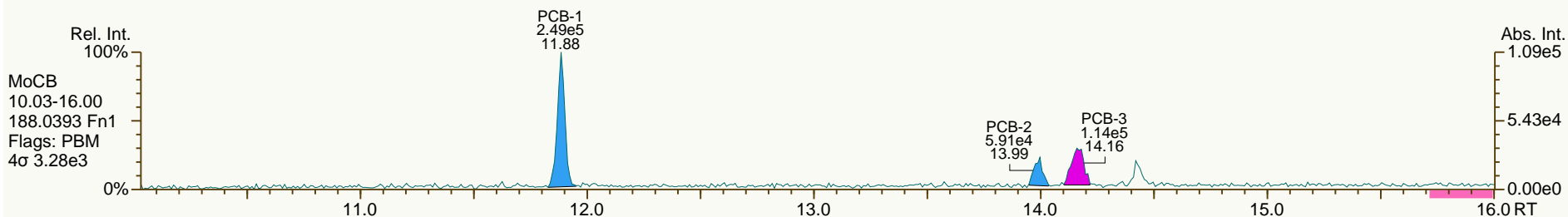




SGS-AP ID: A6506\_11899\_PCB\_008  
Instr: AutoSpec-Premier MM7

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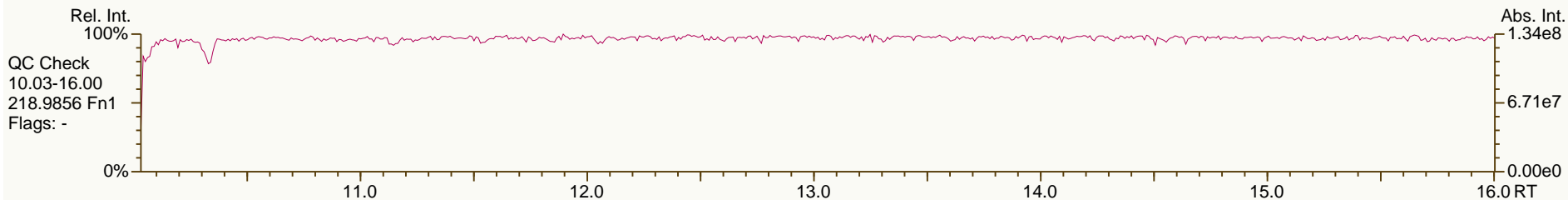
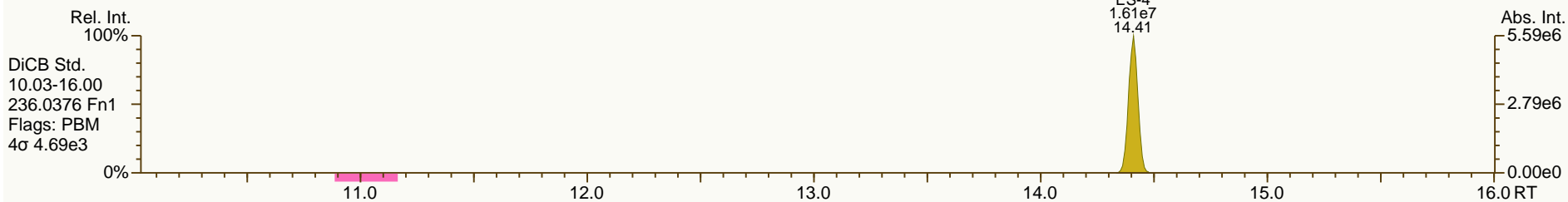
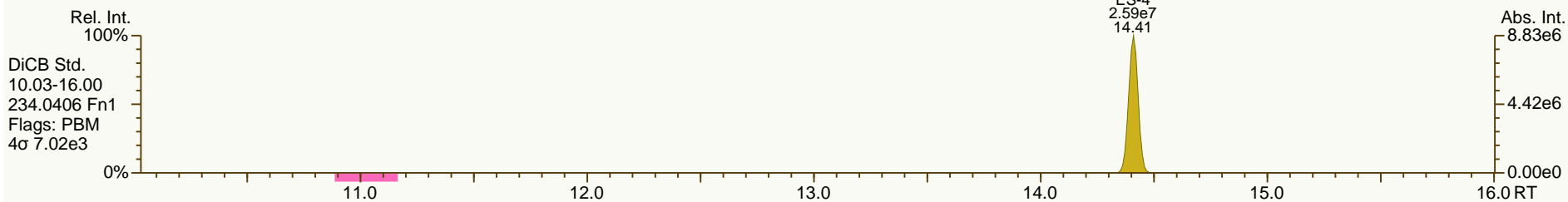
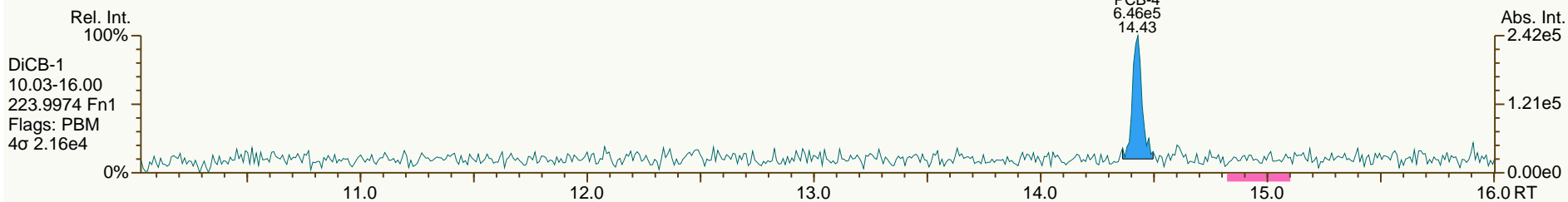
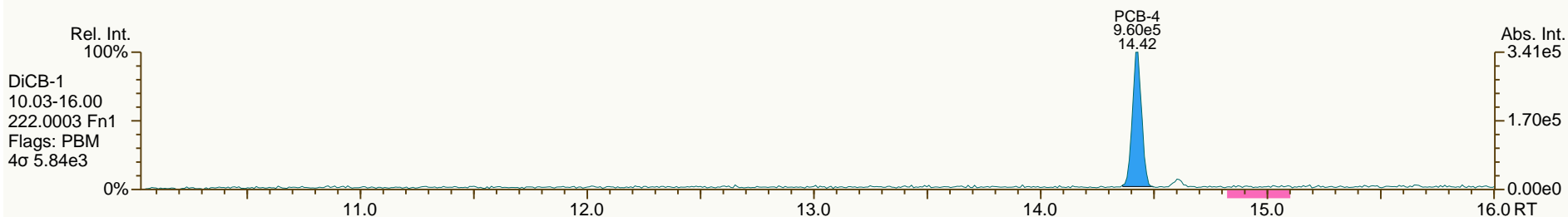
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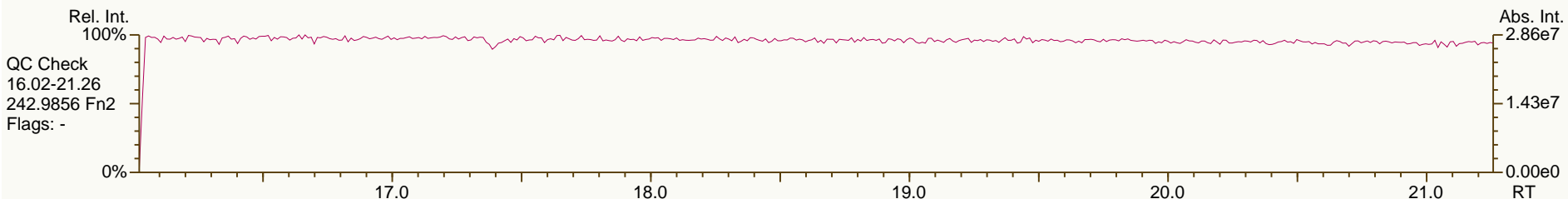
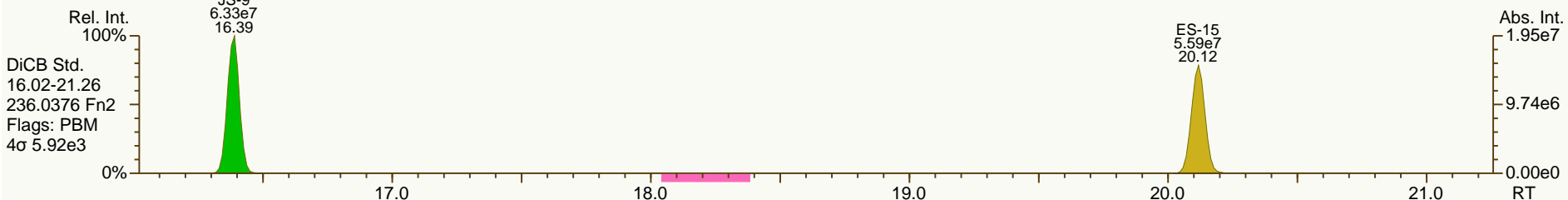
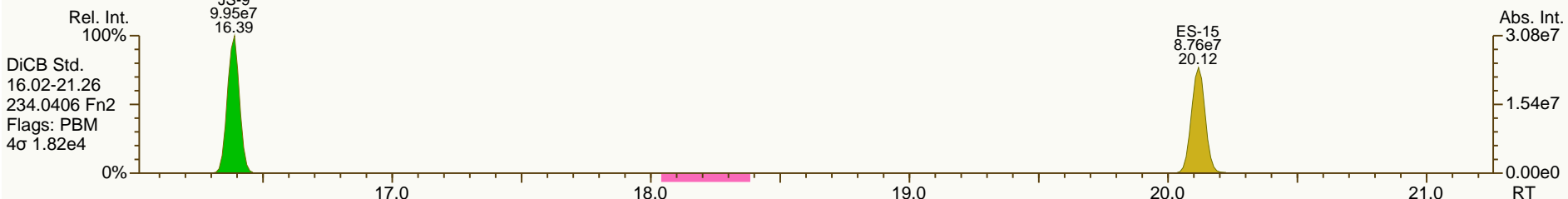
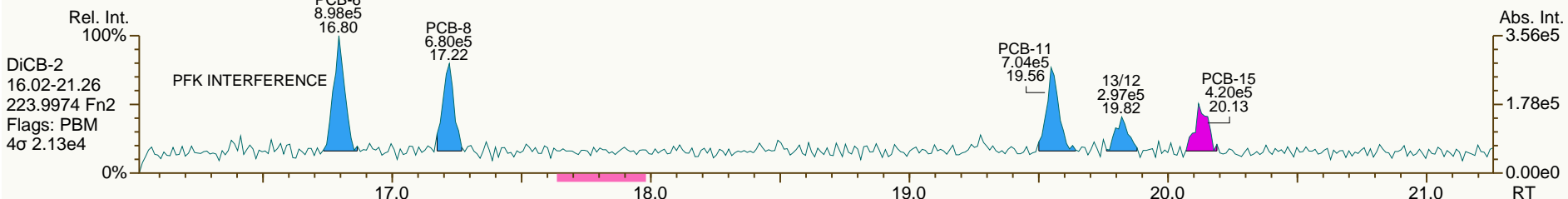
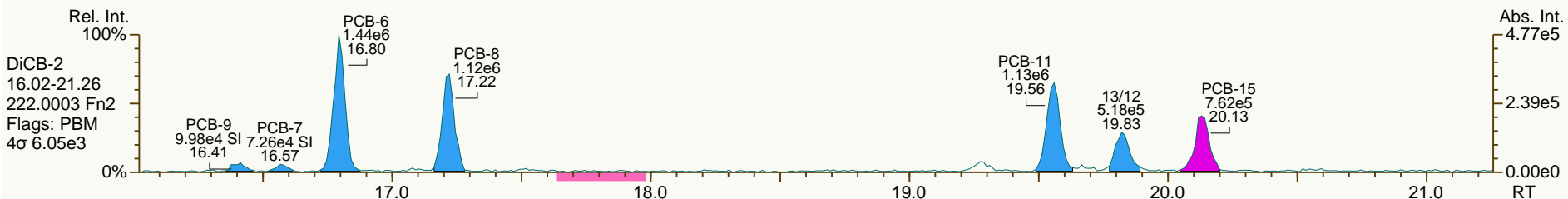
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SGS-AP ID: A6506\_11899\_PCB\_008  
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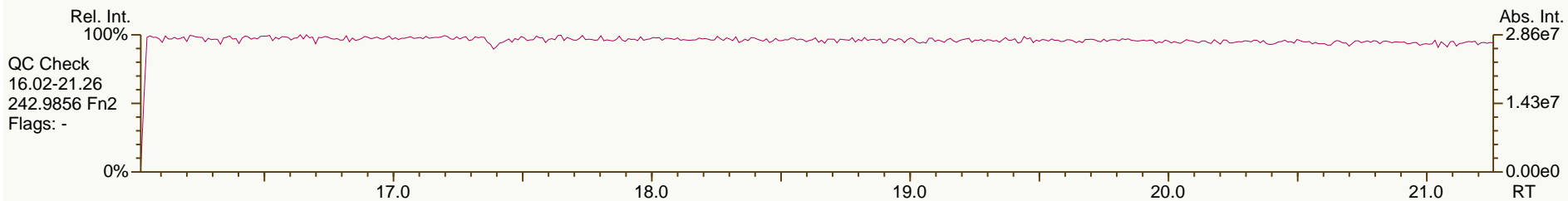
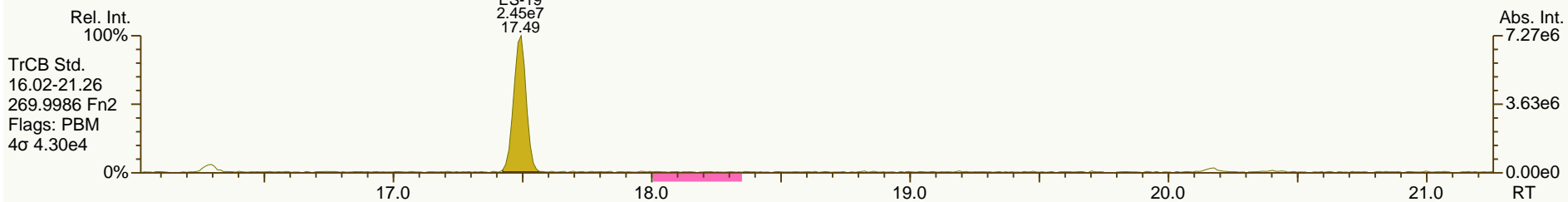
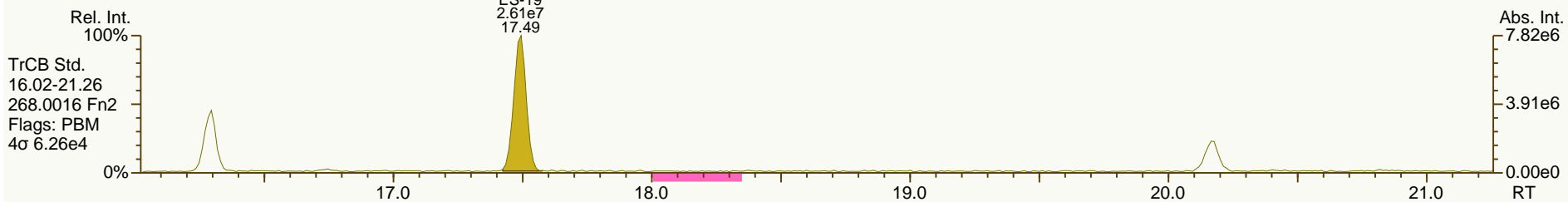
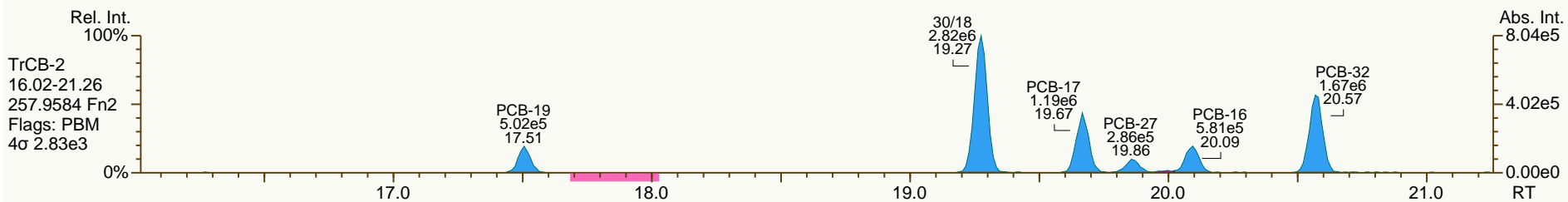
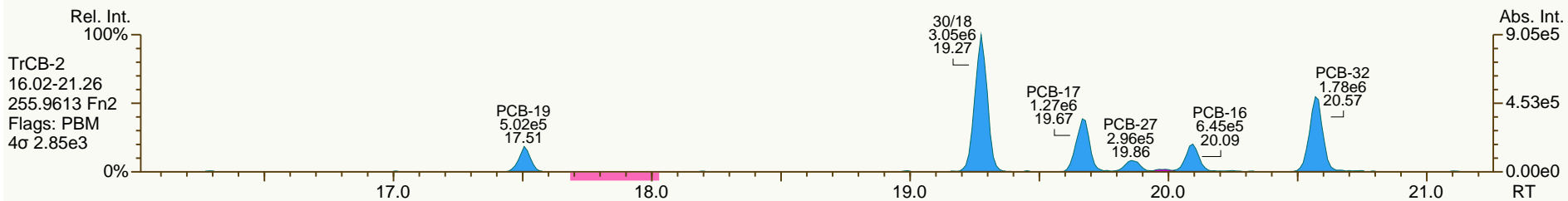
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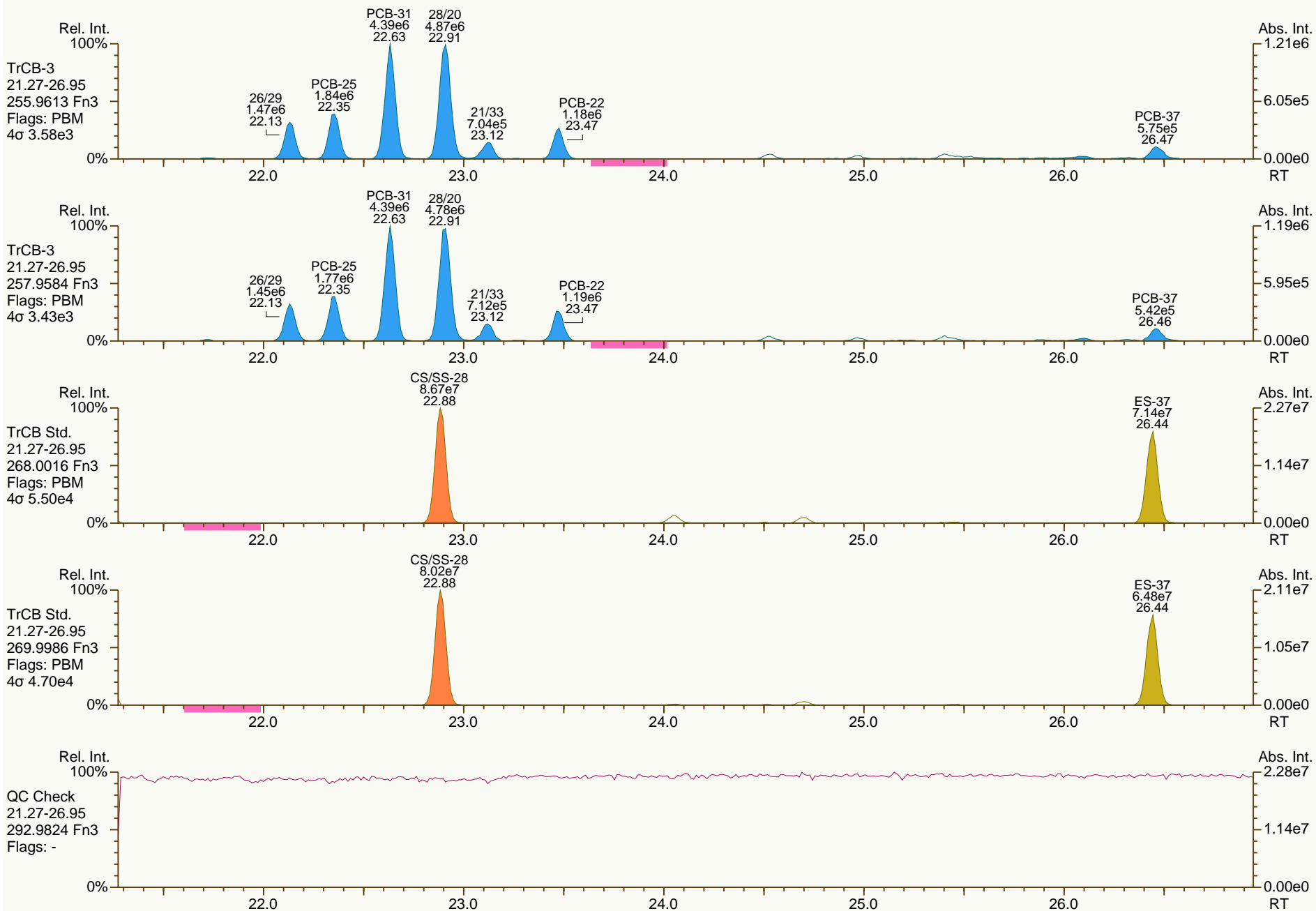
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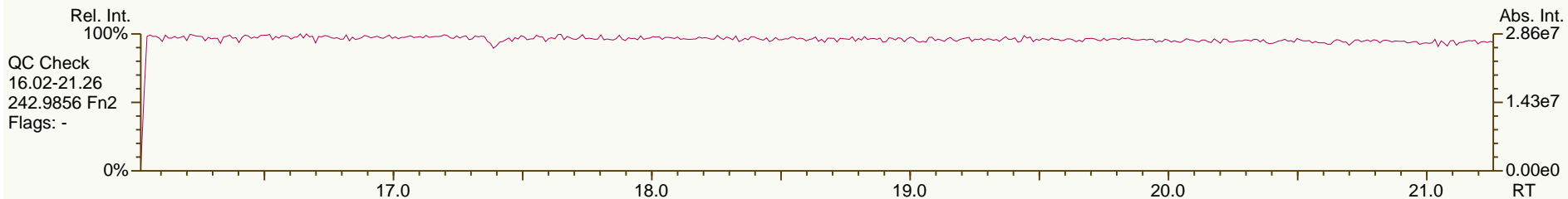
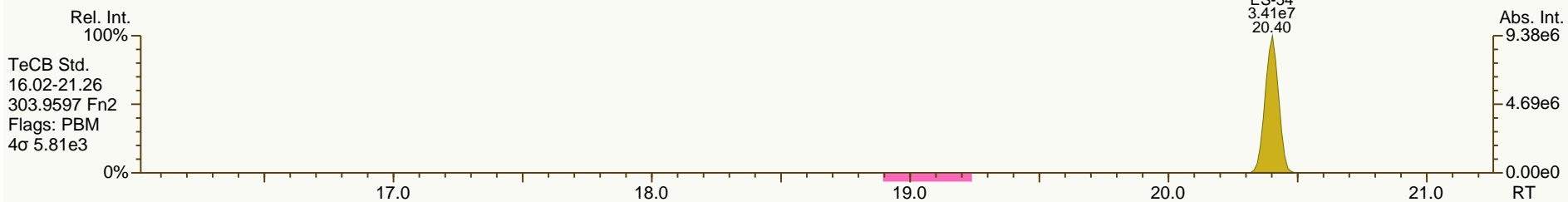
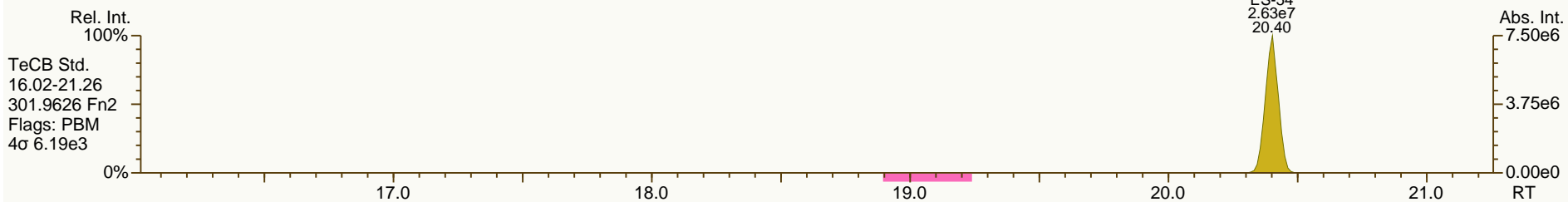
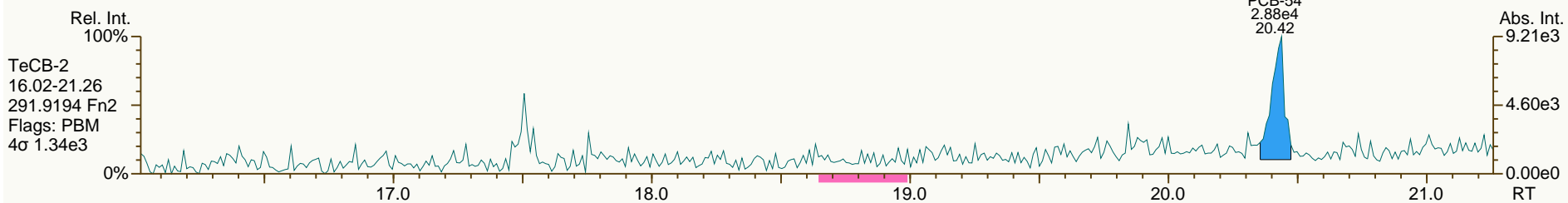
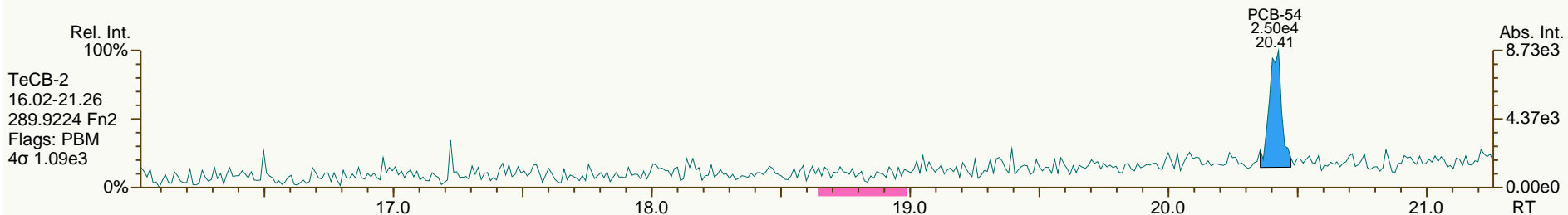
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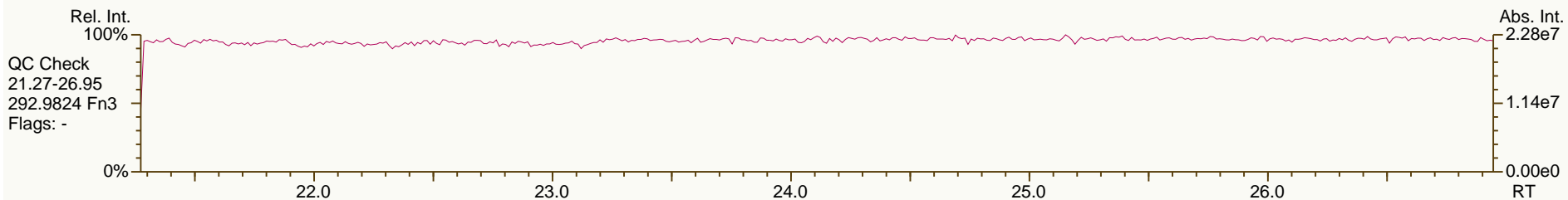
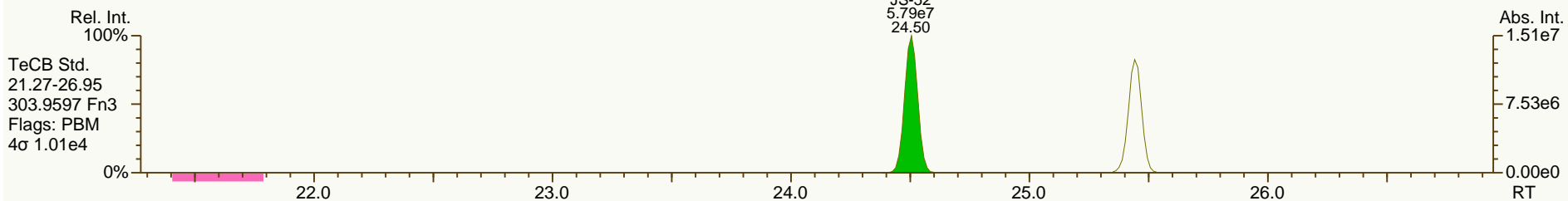
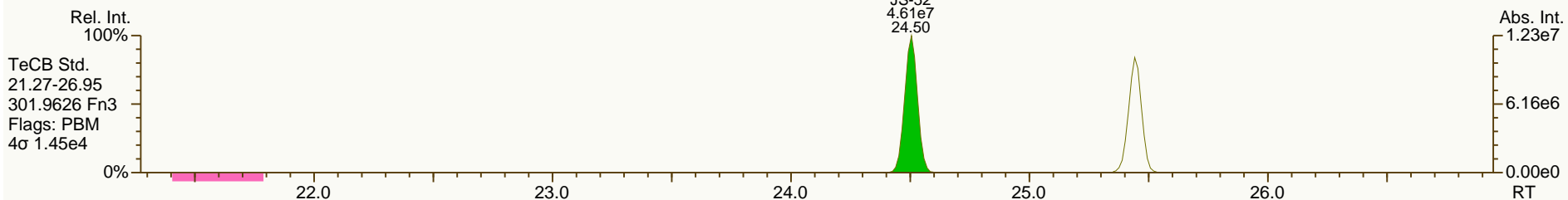
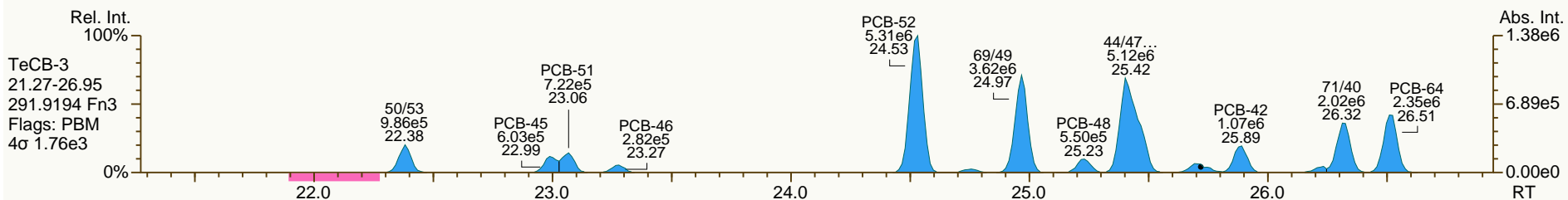
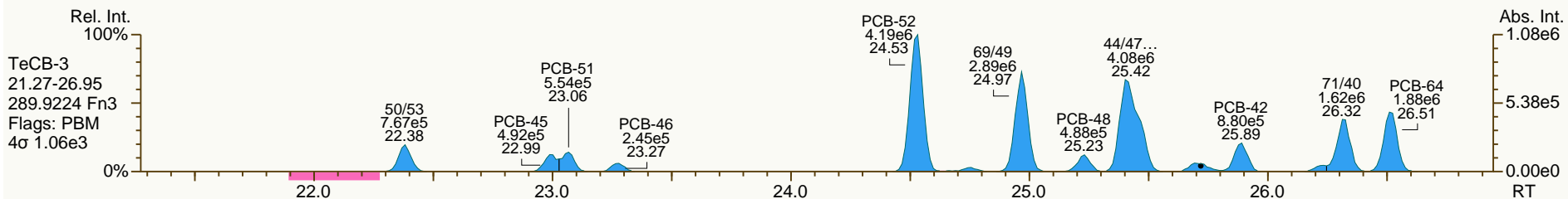
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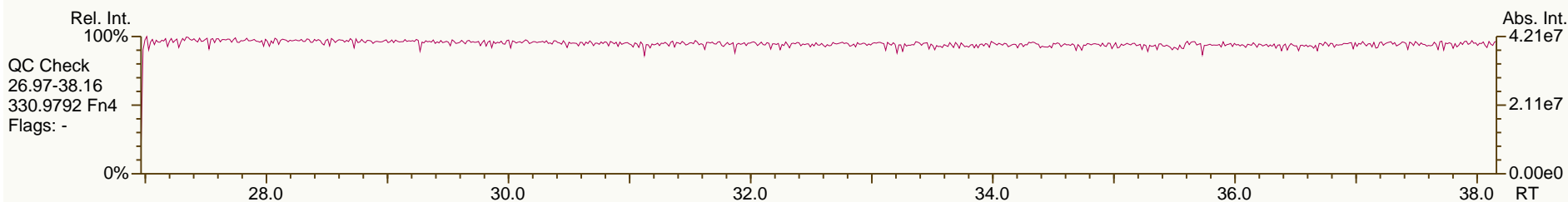
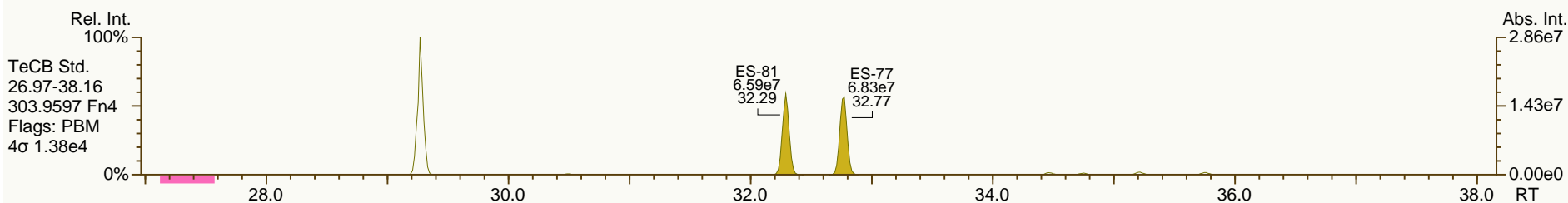
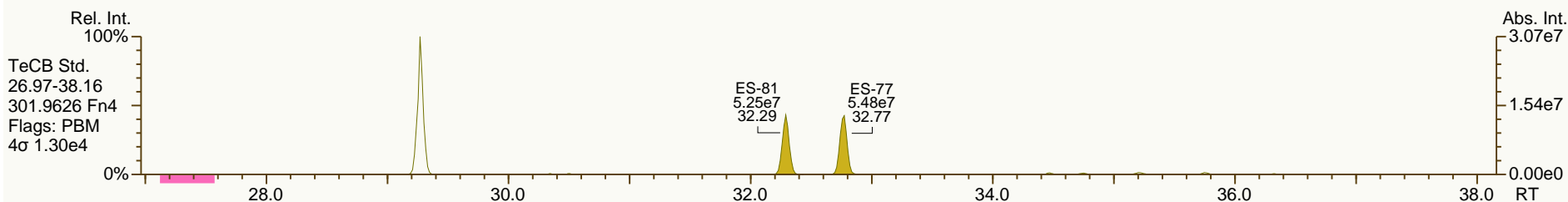
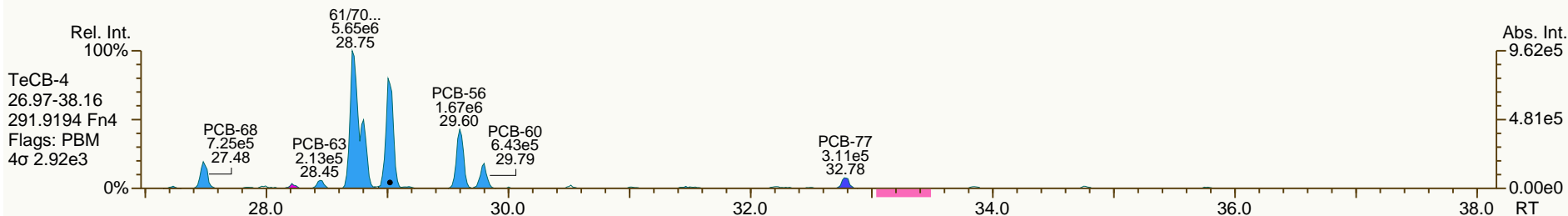
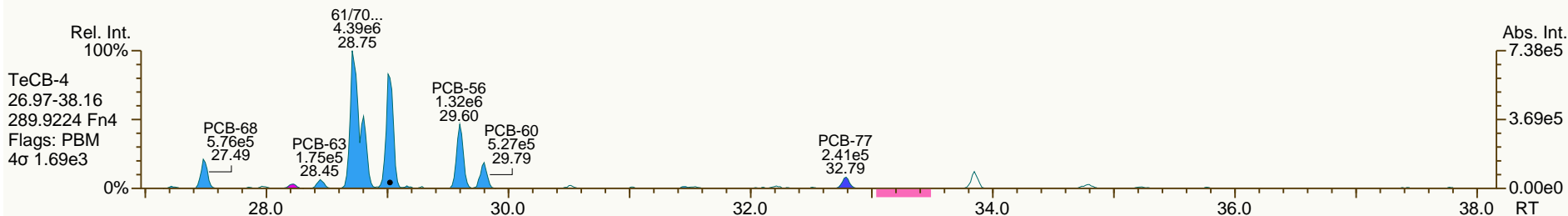
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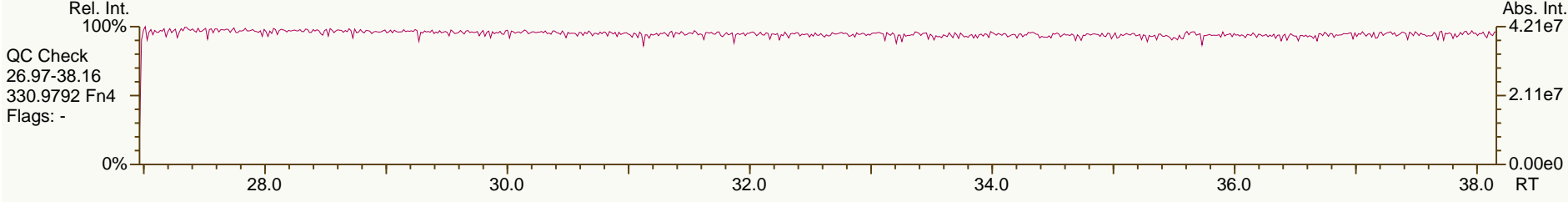
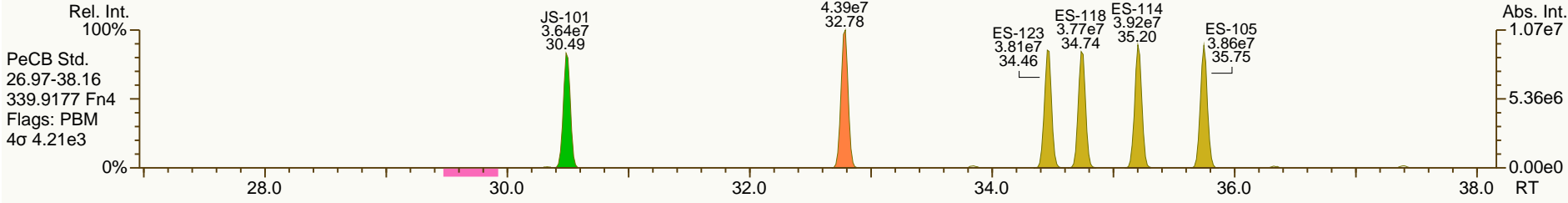
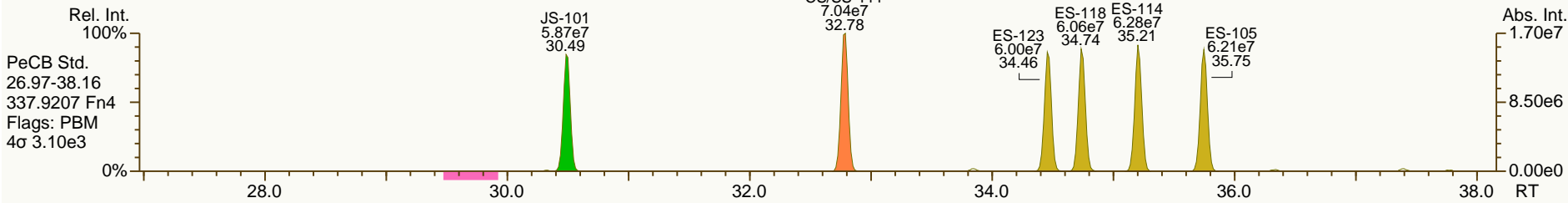
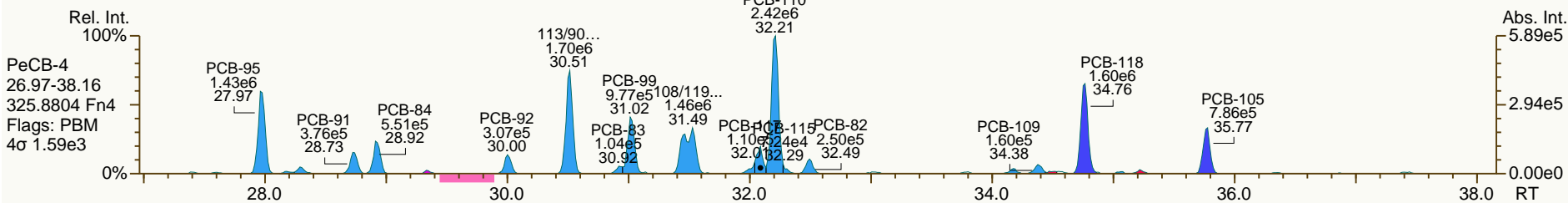
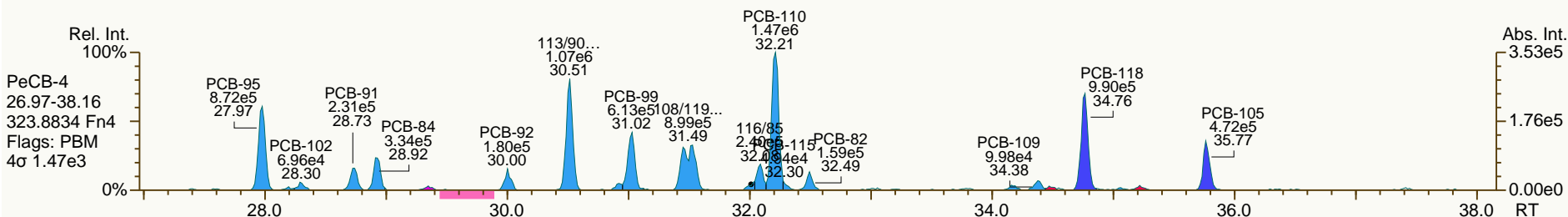
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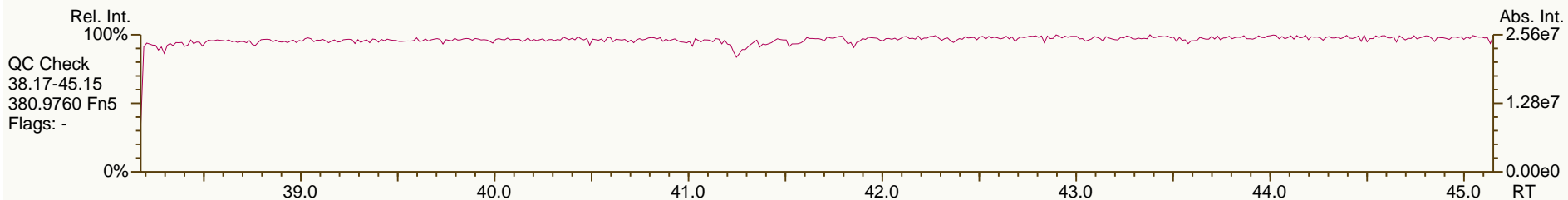
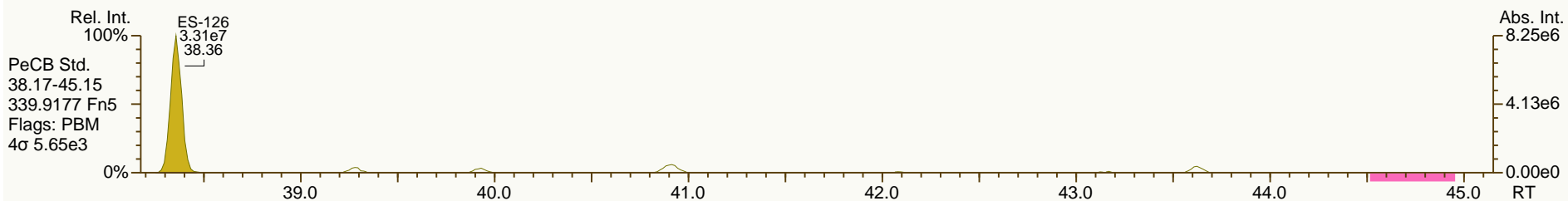
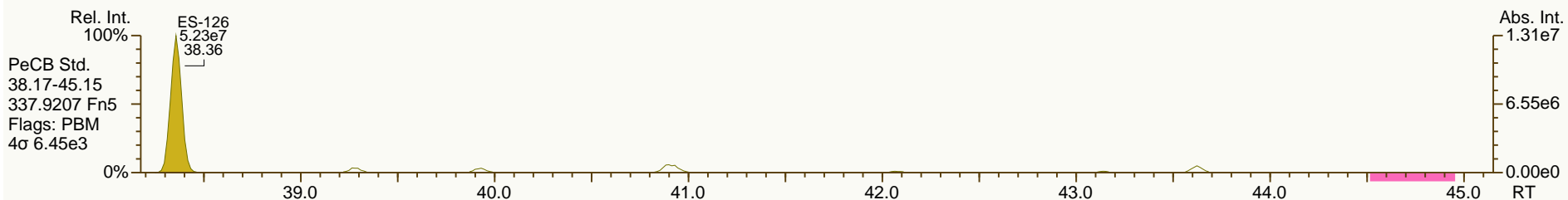
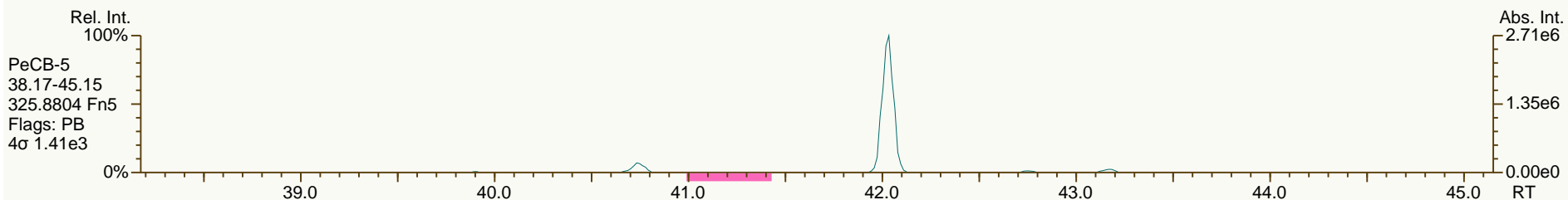
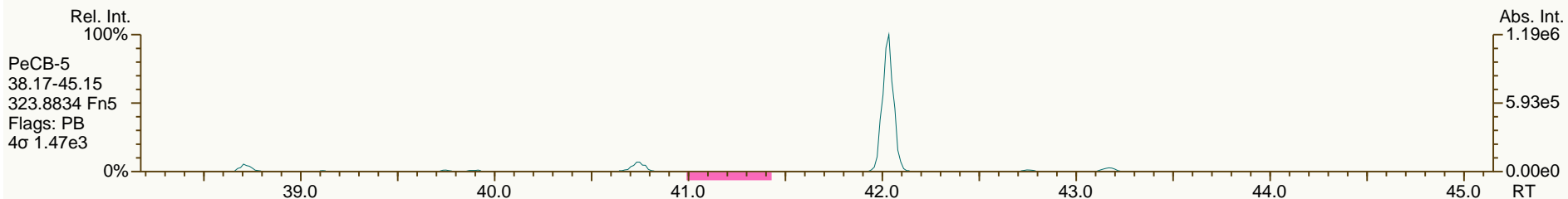
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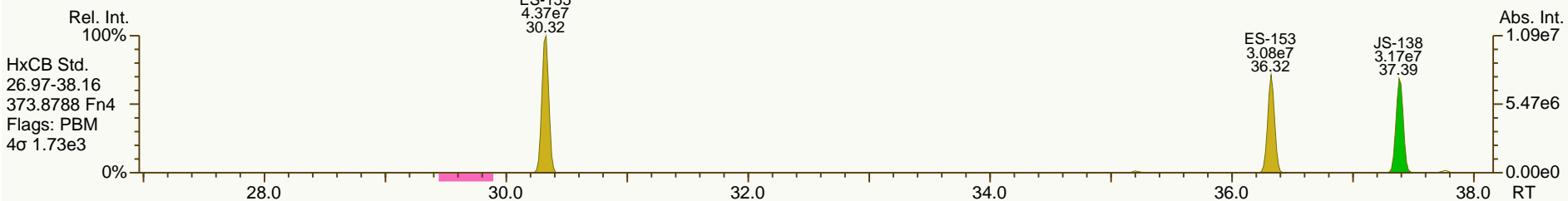
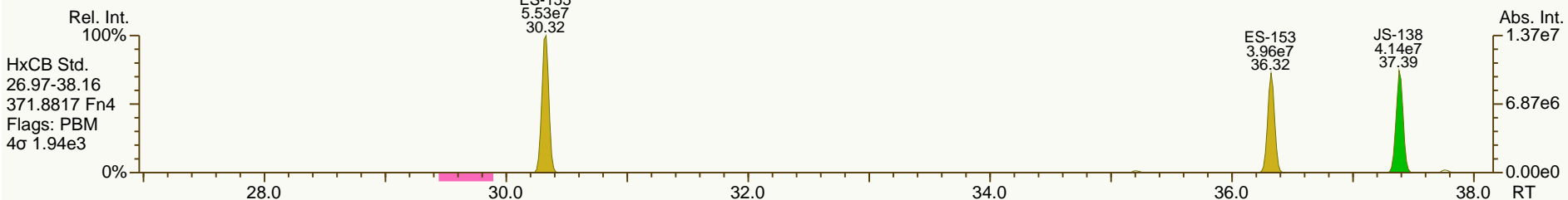
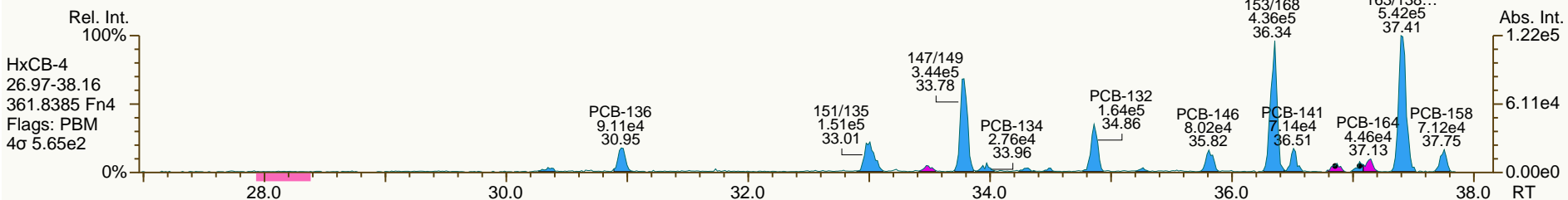
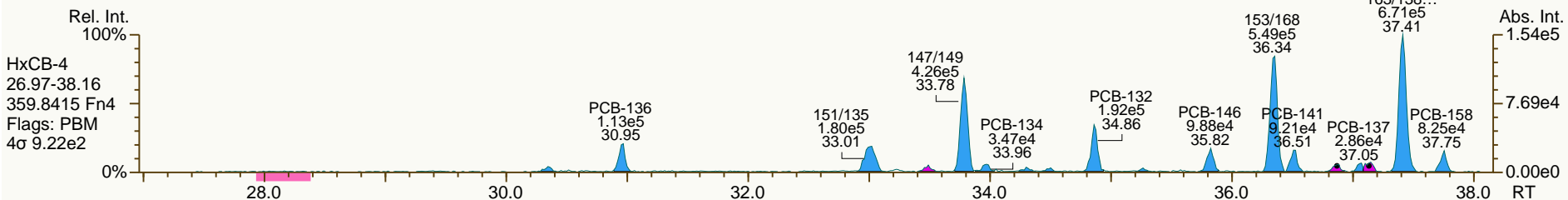
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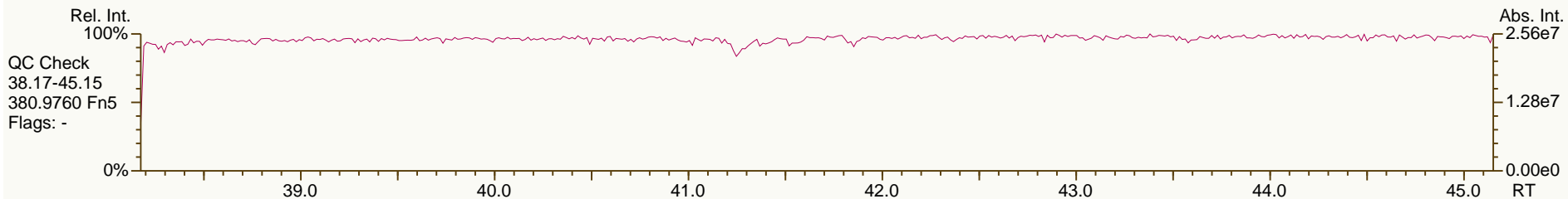
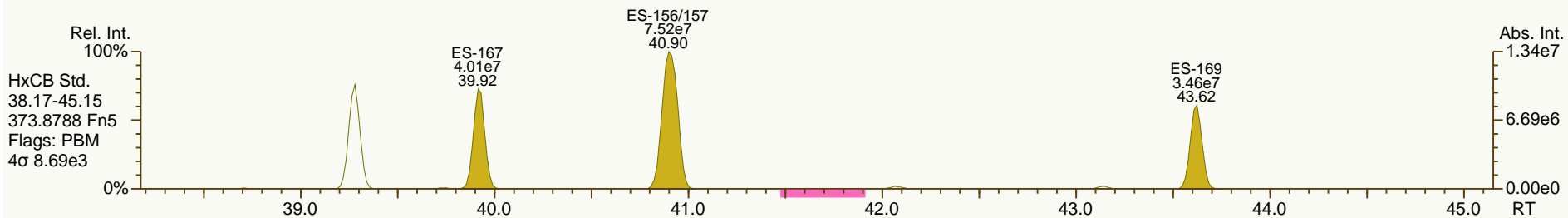
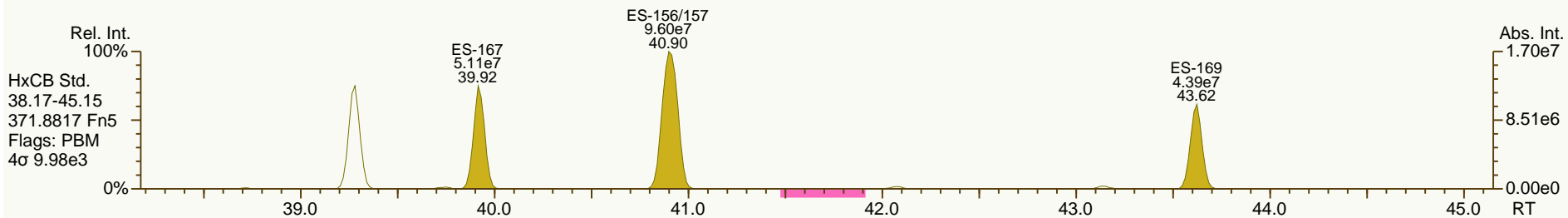
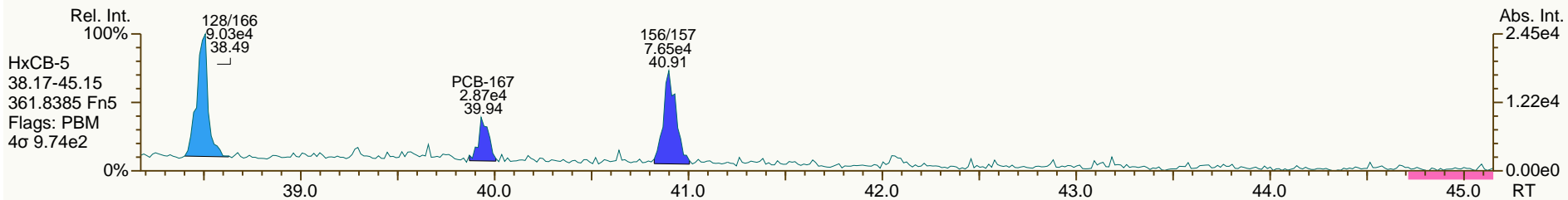
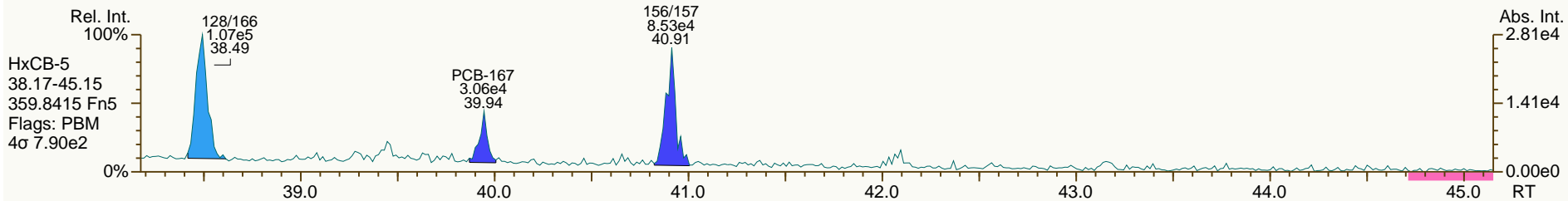
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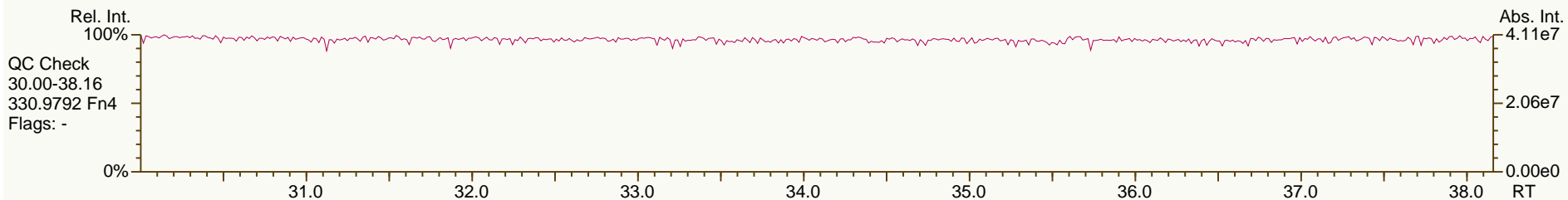
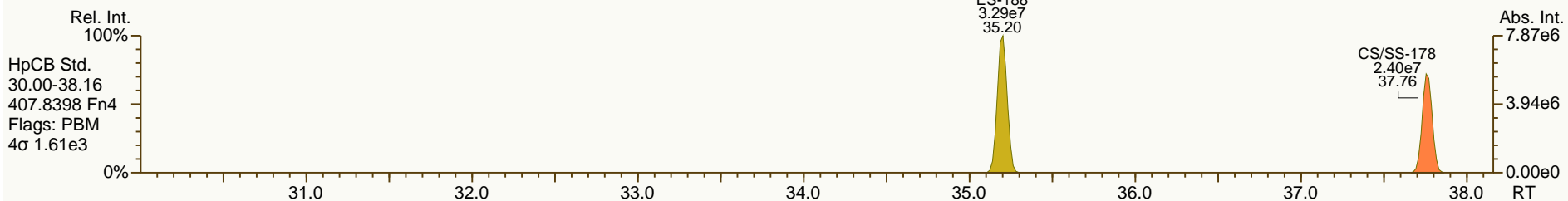
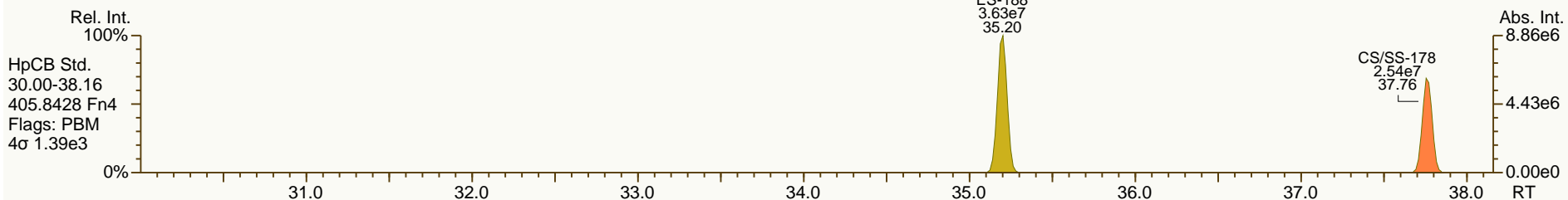
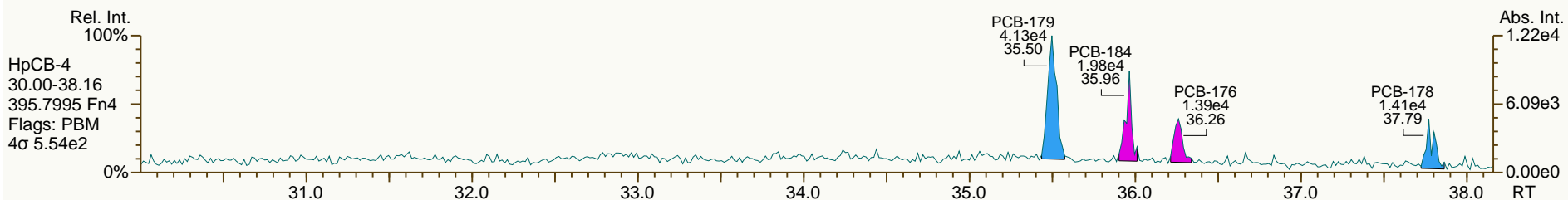
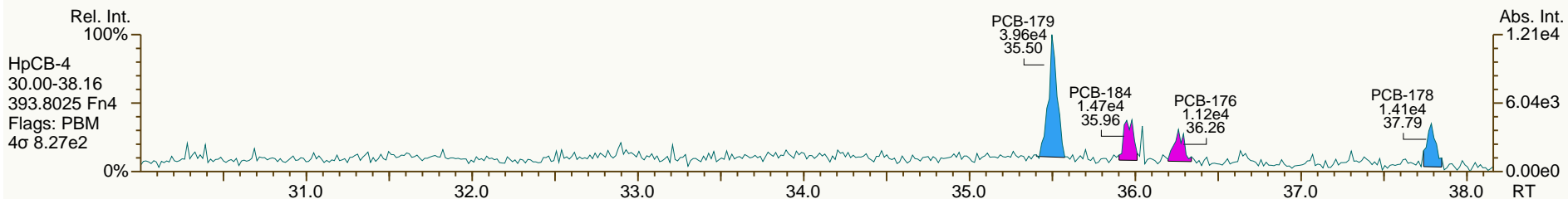
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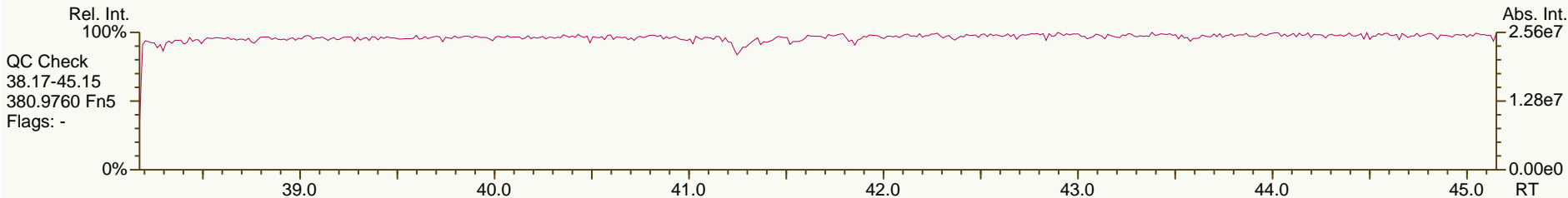
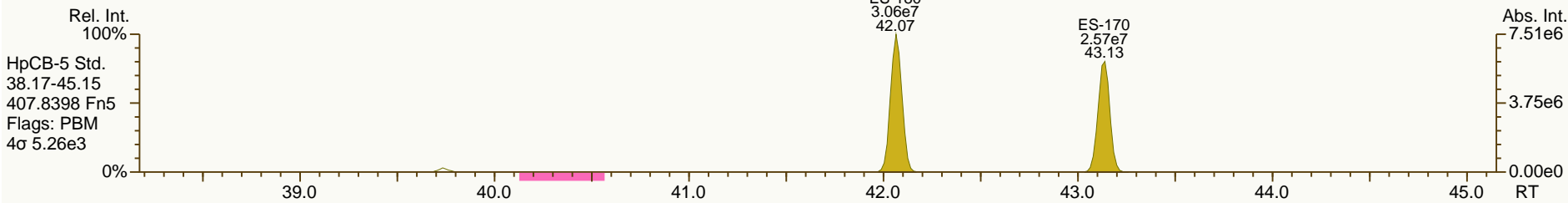
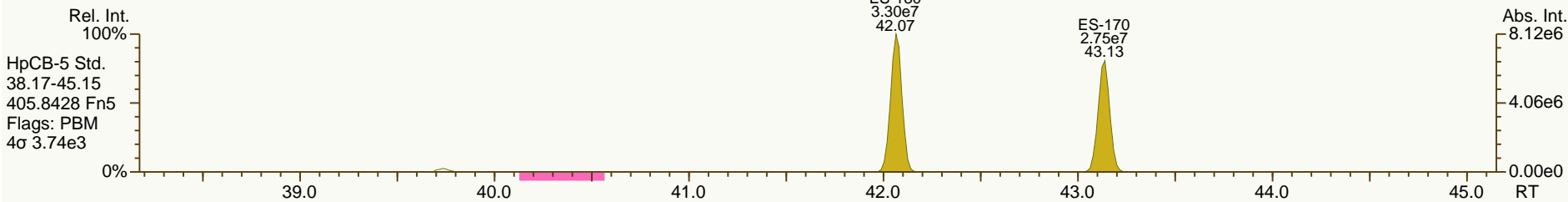
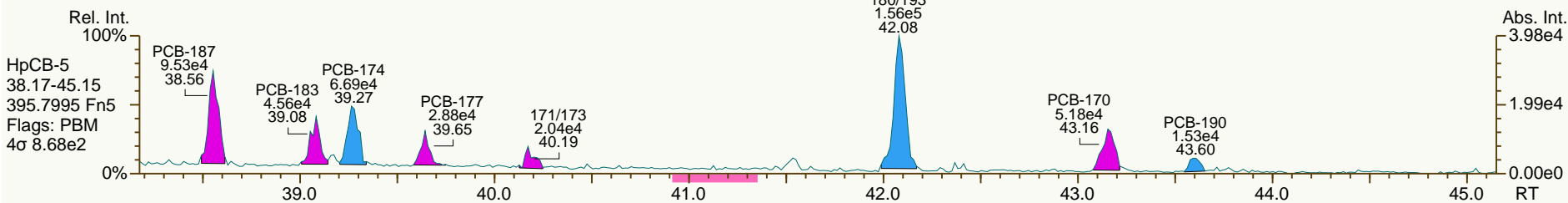
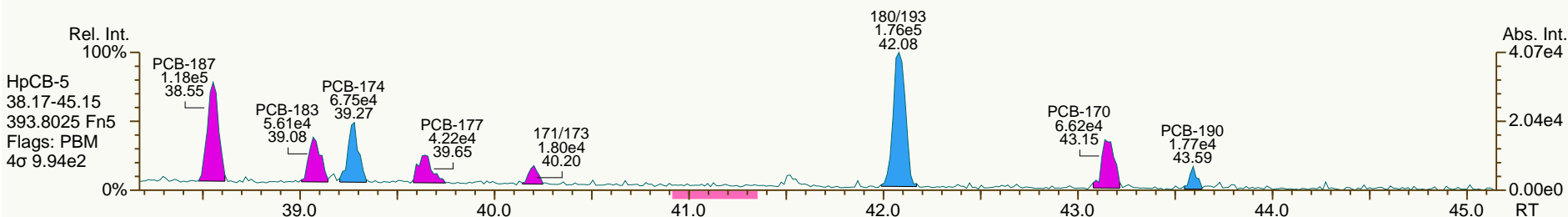
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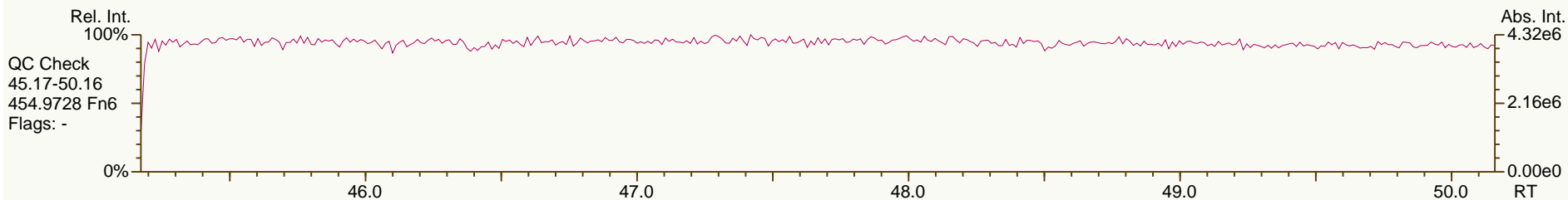
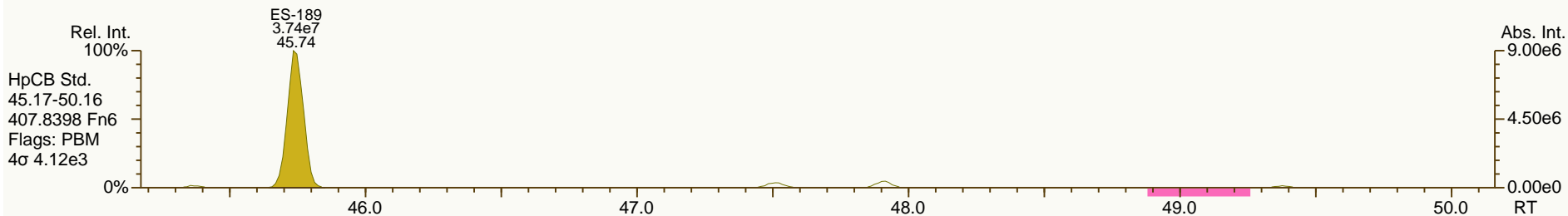
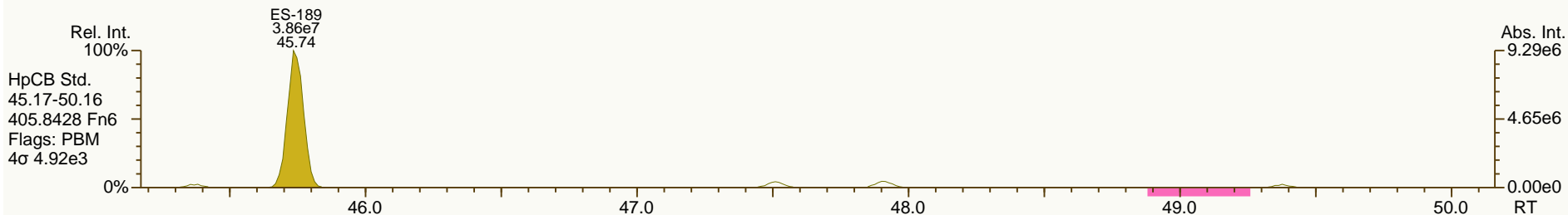
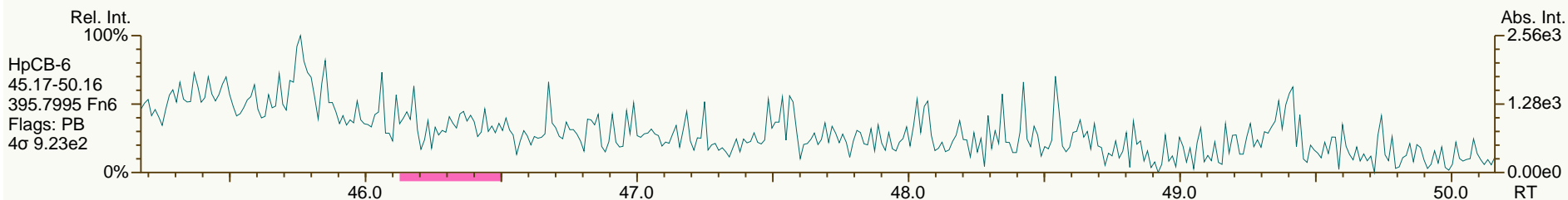
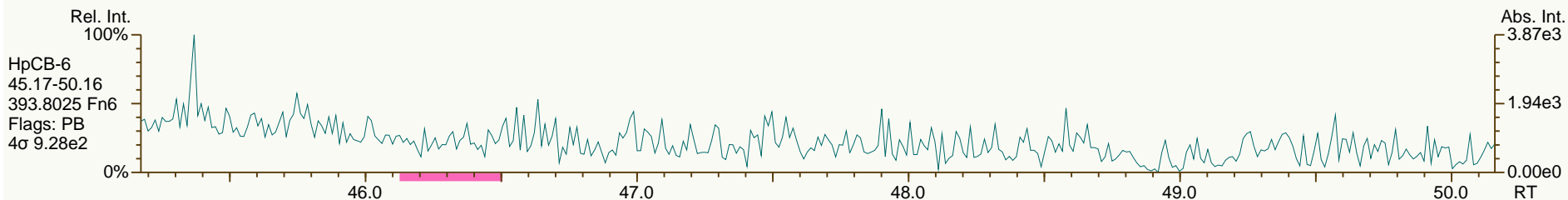
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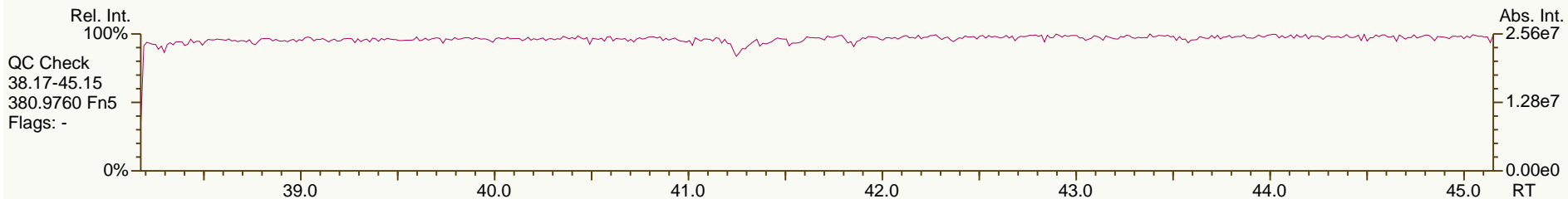
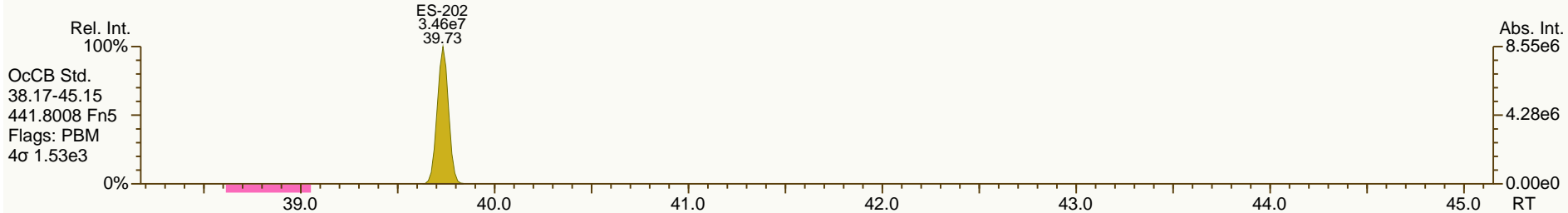
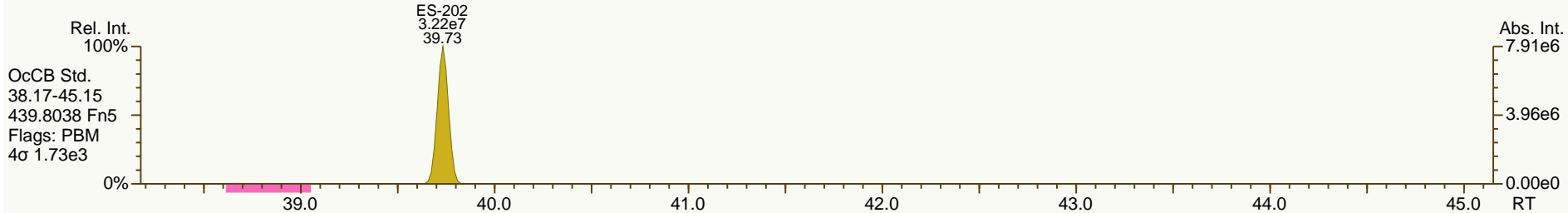
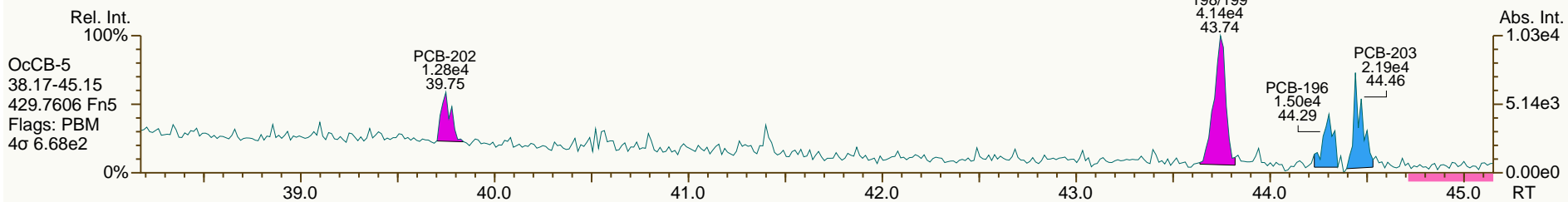
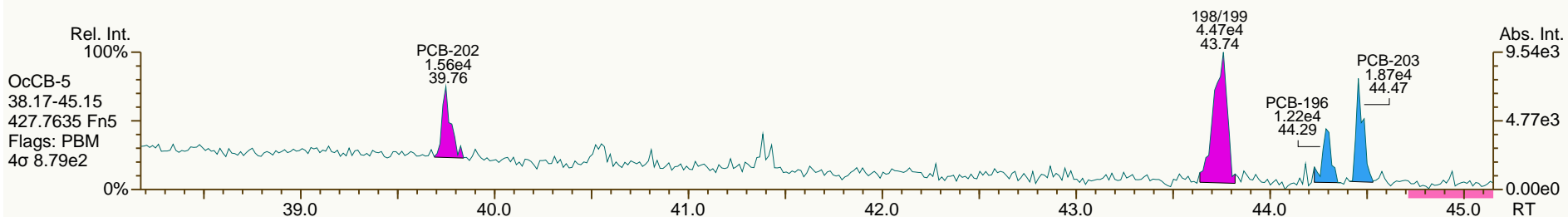




SGS-AP ID: A6506\_11899\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: PB097\_A-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 56

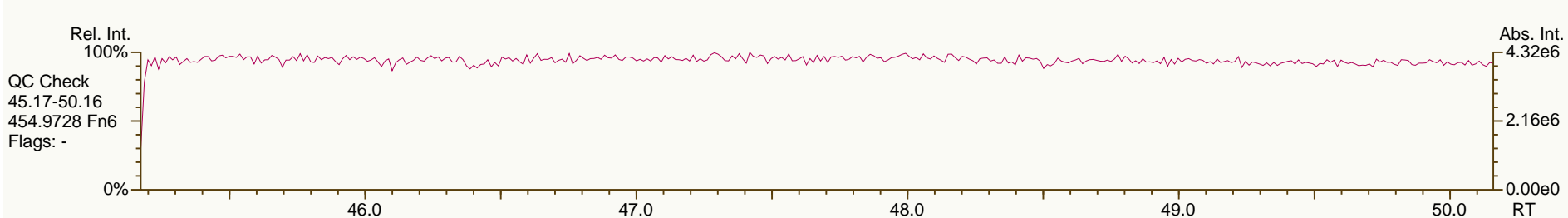
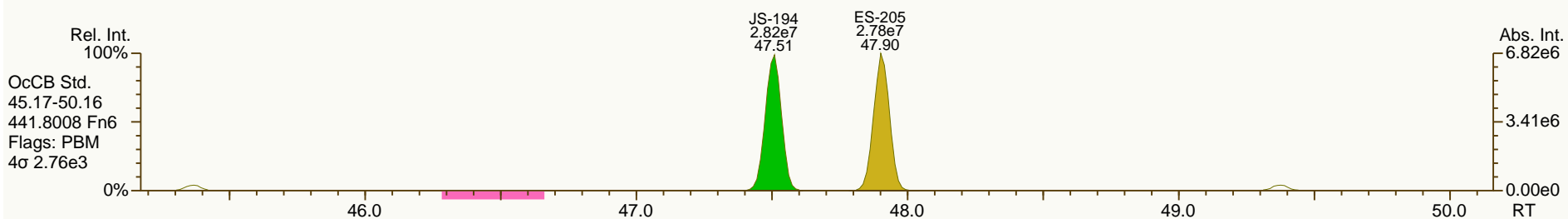
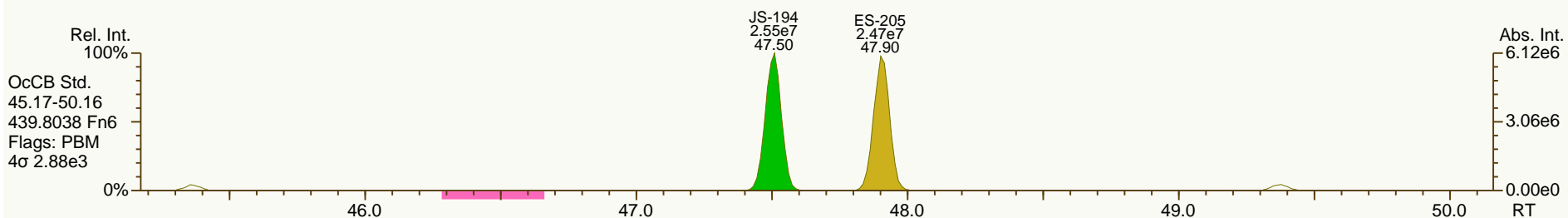
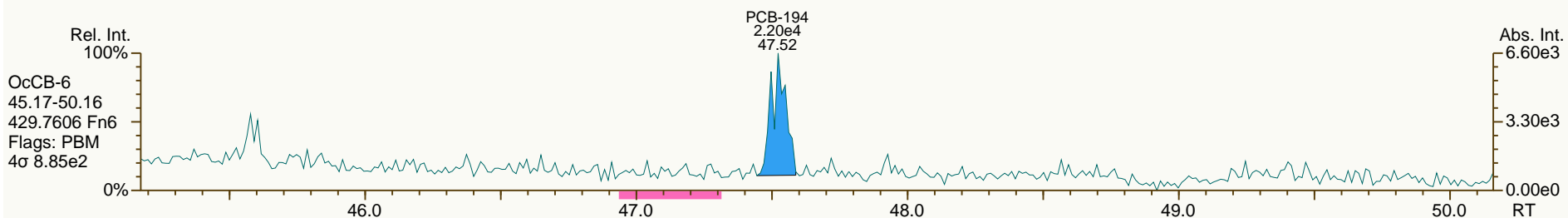
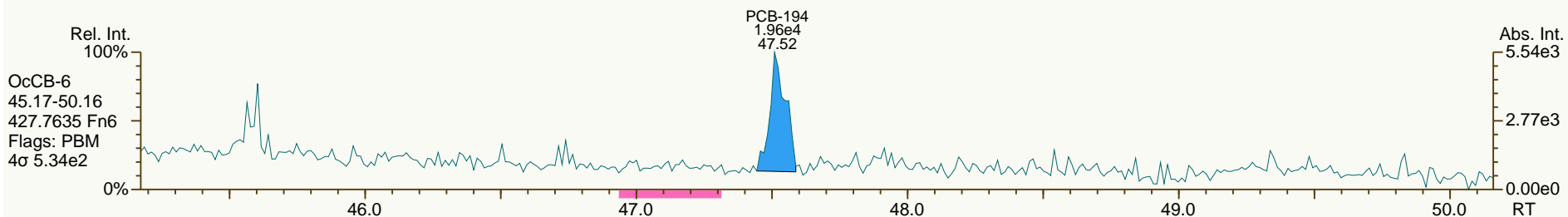
Acq: 27-Mar-2014 20:44:35  
 User: LKB Datafile: 140327X12



SGS-AP ID: A6506\_11899\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: PB097\_A-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 56

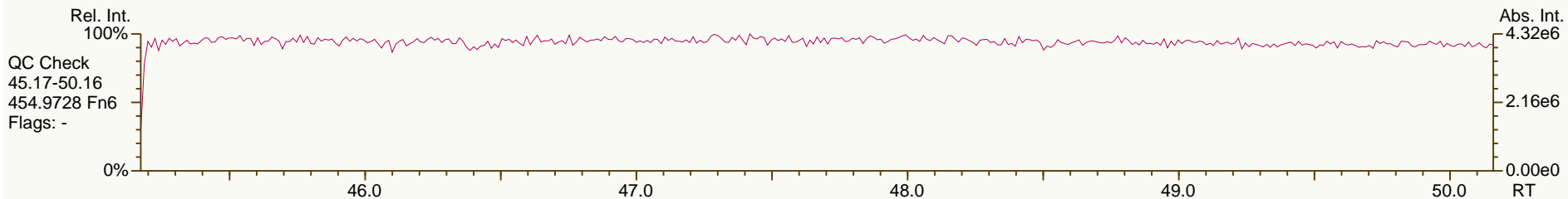
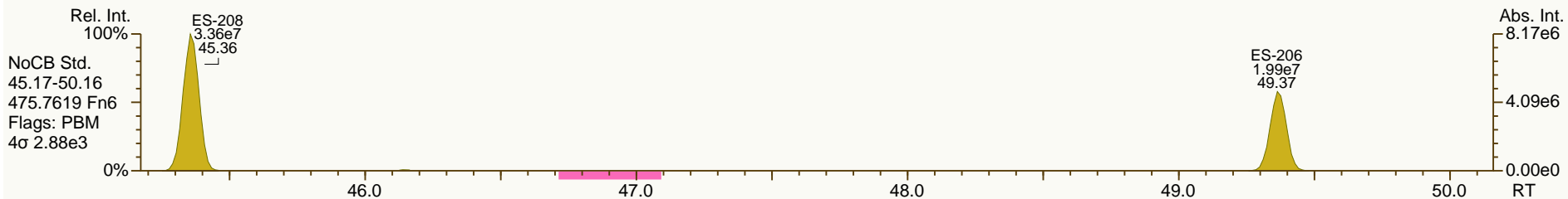
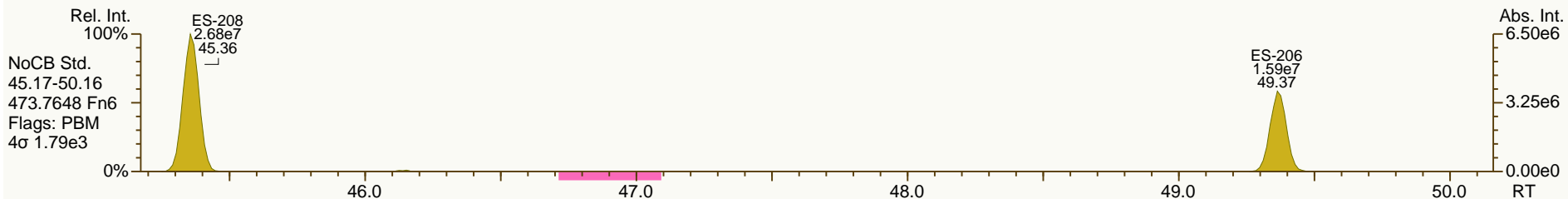
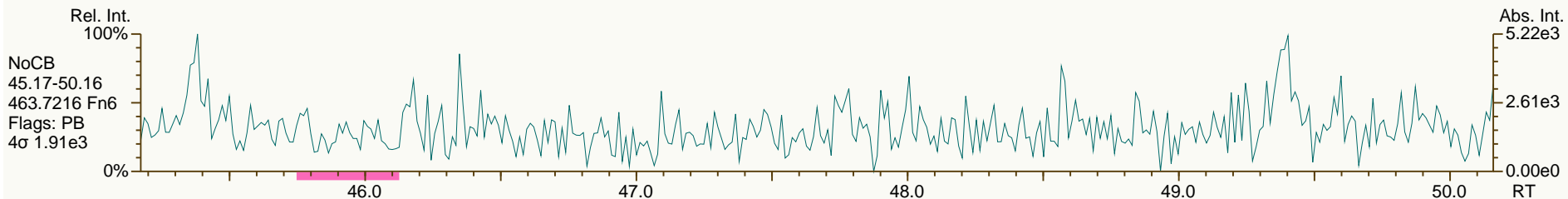
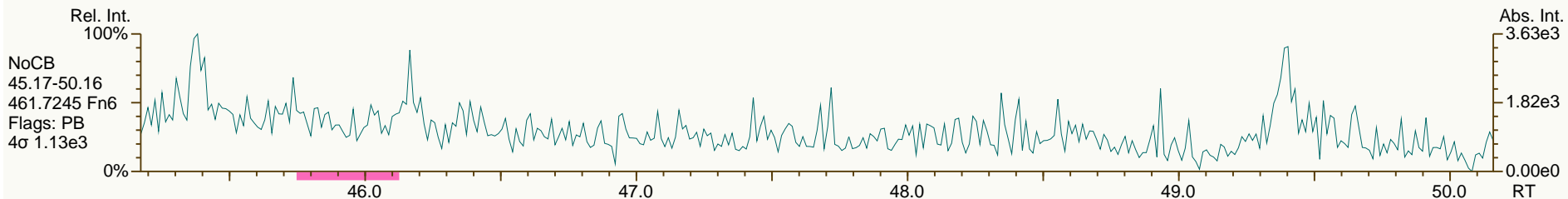
Acq: 27-Mar-2014 20:44:35  
 User: LKB Datafile: 140327X12



SGS-AP ID: A6506\_11899\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: PB097\_A-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 56

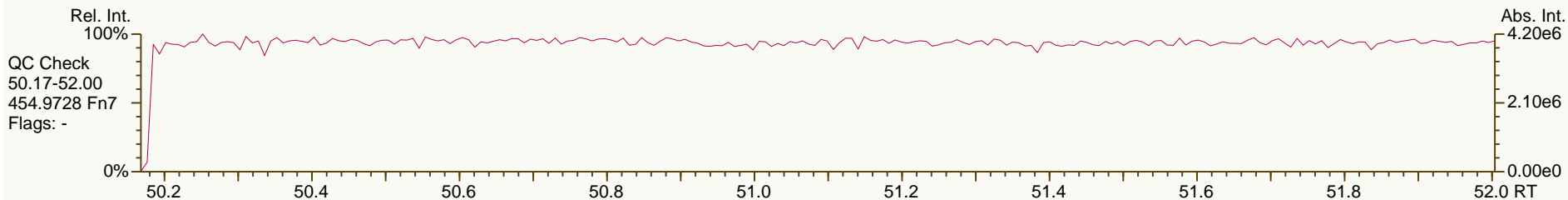
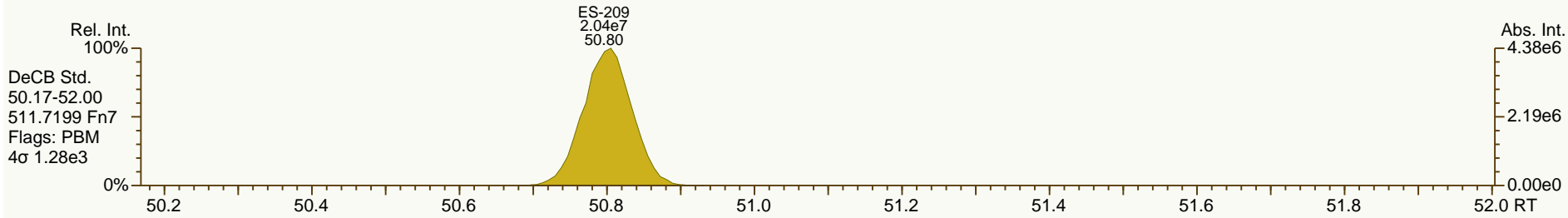
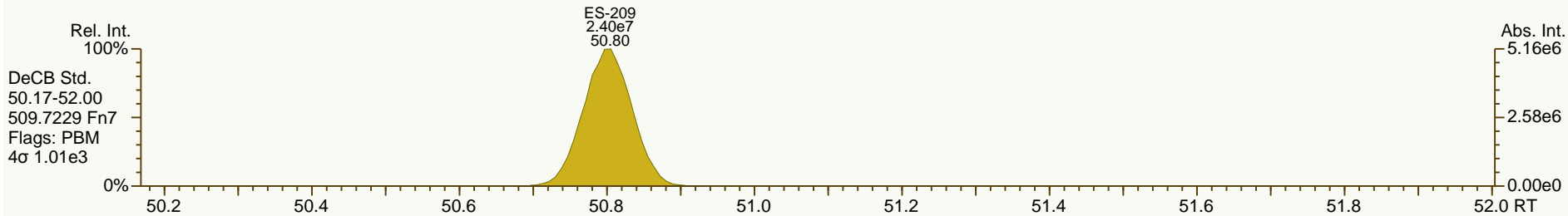
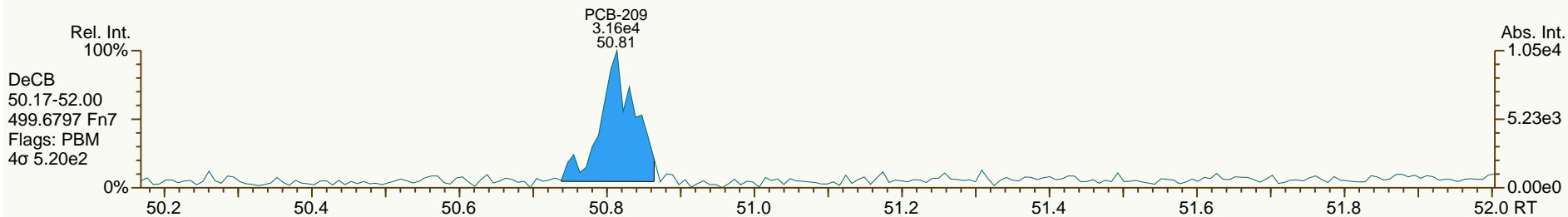
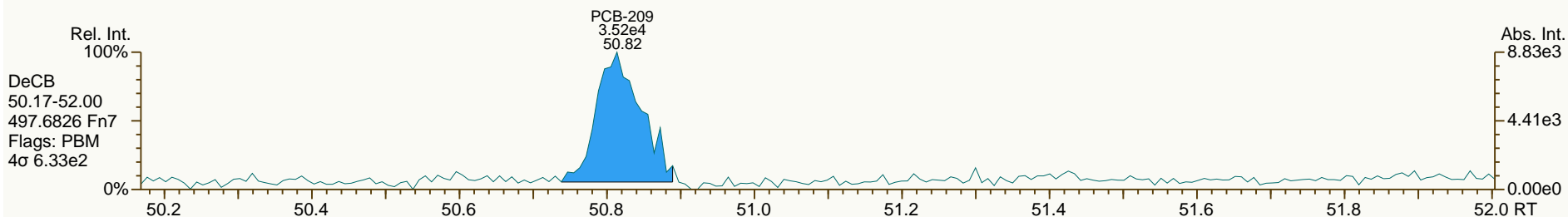
Acq: 27-Mar-2014 20:44:35  
 User: LKB Datafile: 140327X12



SGS-AP ID: A6506\_11899\_PCB\_008  
 Instr: AutoSpec-Premier MM7

Sample ID: PB097\_A-1SWMID-140314-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 66

Acq: 27-Mar-2014 20:44:35  
 User: LKB Datafile: 140327X12



## SGS Analytical Perspectives — Run Log

Project: A6506\_11899\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	140327X01	Tray1:03	CS3_140327_PCB_XA	1.00	SIL 13-79-3	LKB	702-497	27-Mar-2014	10:37:58
2	140327X02	Tray1:47	OPR1_11899_PCB	1.00	0_11899_OPR001	LKB	756-952	27-Mar-2014	11:32:47
3	140327X03	Tray1:02	SBS_140327_PCB_XA	1.00	SIL 13-42-1	LKB	169-929	27-Mar-2014	12:27:58
4	140327X04	Tray1:48	MB1_11899_PCB_TLX	1.00	Method Blank	LKB	733-035	27-Mar-2014	13:23:08
5	140327X05	Tray1:49	A6506_11899_PCB_001	0.92	PB070_B-2SWMID-140314-N (TOTAL)	LKB	561-113	27-Mar-2014	14:18:19
6	140327X06	Tray1:50	A6506_11899_PCB_002	0.94	PB070_B-1SWMID-140314-N (TOTAL)	LKB	505-842	27-Mar-2014	15:13:30
7	140327X07	Tray1:51	A6506_11899_PCB_003	0.96	PB079-1SWMID-140314-N (TOTAL)	LKB	109-950	27-Mar-2014	16:08:42
8	140327X08	Tray1:52	A6506_11899_PCB_004	0.96	PB081_A-1SWMID-140314-N (TOTAL)	LKB	761-905	27-Mar-2014	17:03:52
9	140327X09	Tray1:53	A6506_11899_PCB_005	0.93	PB081_A-1SWMID-140314-N (DISSOLVED)	LKB	223-376	27-Mar-2014	17:59:02
10	140327X10	Tray1:54	A6506_11899_PCB_006	0.96	PB089-1SWMID-140314-N (TOTAL)	LKB	431-600	27-Mar-2014	18:54:13
11	140327X11	Tray1:55	A6506_11899_PCB_007	0.97	PB085-1SWMID-140314-N (TOTAL)	LKB	507-769	27-Mar-2014	19:49:23
12	140327X12	Tray1:56	A6506_11899_PCB_008	0.96	PB097_A-1SWMID-140314-N (TOTAL)	LKB	581-063	27-Mar-2014	20:44:35

PCB QC Summary		SGS Environmental Services			Processed: 30-Mar-2014 14:23		
Lab ID:	CS3_140327_PCB_XA						
Acquired:	27-MAR-2014 10:37		ICAL: MM7_PCB_10292013_20DEC2013				
Datafile:	140327X01						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.81	5.29E+07	0.79 Y	1.15	1.17	1.5%	
PCB-81 344'5'-TeCB	32.33	5.26E+07	0.77 Y	1.12	1.17	4.9%	
PCB-105 233'44'-PeCB	35.79	4.07E+07	0.63 Y	1.11	1.07	-3.5%	
PCB-114 2344'5'-PeCB	35.25	4.52E+07	0.63 Y	1.20	1.18	-1.5%	
PCB-118 23'44'5'-PeCB	34.78	4.30E+07	0.62 Y	1.19	1.15	-3.3%	
PCB-123 23'44'5'-PeCB	34.50	4.51E+07	0.61 Y	1.21	1.20	-1.2%	
PCB-126 33'44'5'-PeCB	38.40	4.00E+07	0.64 Y	1.11	1.24	11.9%	
PCB-156/157 ...-HxCB	40.94	7.05E+07	1.21 Y	1.10	1.09	-0.3%	
PCB-167 23'44'55'-HxCB	39.96	4.00E+07	1.22 Y	1.16	1.15	-1.3%	
PCB-169 33'44'55'-HxCB	43.65	3.43E+07	1.23 Y	1.12	1.13	0.3%	
PCB-189 233'44'55'-HpCB	45.78	3.50E+07	1.07 Y	1.07	1.13	4.8%	
PCB-209 DeCB	50.84	2.17E+07	1.16 Y	1.11	1.07	-4.3%	
ES PCB-1	11.89	1.44E+08	3.27 Y	1.19	1.04	-12.9%	
ES PCB-3	14.18	1.34E+08	3.29 Y	1.09	0.97	-10.9%	
ES PCB-4	14.43	7.60E+07	1.60 Y	0.52	0.55	5.1%	
ES PCB-15	20.14	1.45E+08	1.57 Y	1.04	1.05	1.0%	
ES PCB-19	17.52	7.15E+07	1.06 Y	0.51	0.52	2.2%	
ES PCB-37	26.46	1.06E+08	1.11 Y	1.66	1.47	-11.4%	
ES PCB-54	20.43	6.65E+07	0.77 Y	0.86	0.92	6.9%	
ES PCB-77	32.79	9.05E+07	0.81 Y	1.38	1.25	-9.5%	
ES PCB-81	32.31	8.96E+07	0.79 Y	1.37	1.24	-9.3%	
ES PCB-104	25.40	6.18E+07	1.59 Y	0.80	0.93	15.6%	
ES PCB-105	35.77	7.58E+07	1.59 Y	1.20	1.14	-5.2%	
ES PCB-114	35.23	7.63E+07	1.63 Y	1.22	1.15	-5.7%	
ES PCB-118	34.76	7.48E+07	1.62 Y	1.16	1.12	-3.0%	
ES PCB-123	34.48	7.54E+07	1.59 Y	1.19	1.13	-4.5%	
ES PCB-126	38.38	6.45E+07	1.60 Y	1.03	0.97	-5.6%	
ES PCB-153	36.34	5.66E+07	1.27 Y	1.11	1.13	1.1%	
ES PCB-155	30.35	8.01E+07	1.29 Y	1.59	1.59	0.3%	
ES PCB-156/157	40.92	1.29E+08	1.26 Y	1.60	1.28	-19.8%	
ES PCB-167	39.94	6.98E+07	1.26 Y	1.67	1.39	-16.8%	
ES PCB-169	43.63	6.09E+07	1.27 Y	1.56	1.21	-22.1%	
ES PCB-170	43.15	4.27E+07	1.06 Y	0.95	1.16	22.4%	
ES PCB-180	42.08	5.15E+07	1.10 Y	1.14	1.40	22.9%	
ES PCB-188	35.22	5.71E+07	1.08 Y	0.94	1.14	20.9%	
ES PCB-189	45.76	6.22E+07	1.05 Y	1.58	1.69	6.7%	
ES PCB-202	39.75	5.32E+07	0.90 Y	0.97	1.06	9.2%	
ES PCB-205	47.92	4.47E+07	0.88 Y	1.24	1.21	-2.4%	
ES PCB-206	49.38	3.21E+07	0.78 Y	0.83	0.87	5.1%	
ES PCB-208	45.37	5.06E+07	0.80 Y	1.17	1.37	16.9%	
ES PCB-209	50.82	4.07E+07	1.19 Y	1.11	1.10	-0.5%	

PCB QC Summary		SGS Environmental Services		Processed: 30-Mar-2014 14:23		
Lab ID:	CS3_140327_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	27-MAR-2014 10:37					
Datafile:	140327X01					
Name	RT	Response	RA	ICAL	RRF	Dev'n
SS PCB-28	22.91	1.18E+08	1.09 Y	1.11	1.11	0.0%
SS PCB-111	32.80	8.00E+07	1.57 Y	1.03	1.06	3.1%
SS PCB-178	37.78	3.45E+07	1.07 Y	0.62	0.61	-2.2%
CS PCB-28	22.91	1.18E+08	1.09 Y	1.85	1.64	-11.4%
CS PCB-111	32.80	8.00E+07	1.57 Y	1.22	1.20	-1.5%
CS PCB-178	37.78	3.45E+07	1.07 Y	0.58	0.69	18.2%
JS PCB-9	16.41	1.38E+08	1.57 Y		-	-
JS PCB-52	24.53	7.23E+07	0.80 Y		-	-
JS PCB-101	30.51	6.65E+07	1.60 Y		-	-
JS PCB-138	37.41	5.03E+07	1.28 Y		-	-
JS PCB-194	47.52	3.68E+07	0.90 Y		-	-
PCB-1 2-MoCB	11.90	7.90E+07	3.24 Y	0.95	1.10	15.3%
PCB-3 4-MoCB	14.19	7.85E+07	3.25 Y	1.01	1.17	16.2%
PCB-4 22'-DiCB	14.45	4.49E+07	1.59 Y	1.23	1.18	-4.1%
PCB-15 44'-DiCB	20.16	8.12E+07	1.63 Y	1.02	1.12	9.5%
PCB-19 22'6'-TrCB	17.53	3.99E+07	1.04 Y	1.15	1.12	-2.7%
PCB-37 344'-TrCB	26.49	6.45E+07	1.00 Y	1.08	1.21	12.3%
PCB-54 22'66'-TeCB	20.45	4.44E+07	0.81 Y	1.35	1.34	-1.2%
PCB-104 22'466'-PeCB	25.42	4.26E+07	0.64 Y	1.43	1.38	-3.7%
PCB-155 22'44'66'-HxCB	30.37	4.80E+07	1.27 Y	1.26	1.20	-4.8%
PCB-188 22'34'566'-HpCB	35.24	3.28E+07	1.07 Y	1.27	1.15	-9.4%
PCB-202 22'33'55'66'-OcCB	39.77	2.70E+07	0.91 Y	1.05	1.01	-3.6%
PCB-205 233'44'55'6-OcCB	47.94	2.34E+07	0.93 Y	1.06	1.05	-1.2%
PCB-208 22'33'455'66'-NoCB	45.40	2.78E+07	0.78 Y	1.12	1.10	-2.1%
PCB-206 22'33'44'55'6-NoCB	49.40	1.73E+07	0.79 Y	1.11	1.08	-3.4%
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-

PCB QC Summary - Ax2 Detail				Processed: 30-Mar-2014 14:23			
Lab ID:	CS3_140327_PCB_XA			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	27-MAR-2014 10:37						
Datafile:	140327X01						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.90	7.90E+07	3.24 Y	0.95	-	-	
PCB-2 3-MoCB	14.01	8.01E+07	3.22 Y	1.03	1.20	15.8%	
PCB-3 4-MoCB	14.19	7.85E+07	3.25 Y	1.01	-	-	
PCB-4 22'-DiCB	14.45	4.49E+07	1.59 Y	1.23	-	-	
PCB-10 26-DiCB	14.63	7.23E+07	1.59 Y	1.98	1.90	-3.9%	
PCB-9 25-DiCB	16.43	7.35E+07	1.65 Y	0.95	1.01	7.0%	
PCB-7 24-DiCB	16.59	8.28E+07	1.63 Y	1.05	1.14	8.8%	
PCB-6 23'-DiCB	16.82	7.73E+07	1.64 Y	1.00	1.06	6.8%	
PCB-5 23-DiCB	17.12	7.80E+07	1.62 Y	1.00	1.07	7.1%	
PCB-8 24'-DiCB	17.24	7.99E+07	1.64 Y	1.03	1.10	6.5%	
PCB-14 35-DiCB	18.80	9.27E+07	1.64 Y	1.18	1.27	8.0%	
PCB-11 33'-DiCB	19.58	8.00E+07	1.64 Y	1.01	1.10	8.8%	
PCB-13/12 34'/34-DiCB	19.87	1.59E+08	1.62 Y	0.99	1.10	10.8%	
PCB-15 44'-DiCB	20.16	8.12E+07	1.63 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.53	3.99E+07	1.04 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.29	1.10E+08	1.05 Y	1.54	1.54	-0.1%	
PCB-17 22'4-TrCB	19.69	4.73E+07	1.04 Y	1.31	1.32	1.5%	
PCB-27 23'6-TrCB	19.89	6.44E+07	1.04 Y	1.82	1.80	-0.9%	
PCB-24 236-TrCB	20.02	6.10E+07	1.03 Y	1.72	1.71	-0.9%	
PCB-16 22'3-TrCB	20.12	3.62E+07	1.05 Y	1.01	1.01	0.6%	
PCB-32 24'6-TrCB	20.60	6.80E+07	1.04 Y	1.92	1.90	-0.9%	
PCB-34 23'5'-TrCB	21.75	6.79E+07	1.01 Y	1.14	1.28	12.4%	
PCB-23 235-TrCB	21.90	6.80E+07	1.00 Y	1.16	1.28	10.6%	
PCB-26/29 23'5/245-TrCB	22.18	1.37E+08	1.01 Y	1.17	1.29	10.1%	
PCB-25 23'4-TrCB	22.38	6.83E+07	1.01 Y	1.16	1.28	11.0%	
PCB-31 24'5-TrCB	22.66	7.15E+07	1.01 Y	1.23	1.34	9.7%	
PCB-28/20 244'/233'-TrCB	22.94	1.33E+08	1.01 Y	1.13	1.25	10.7%	
PCB-21/33 234/23'4'-TrCB	23.12	1.37E+08	1.01 Y	1.17	1.29	9.7%	
PCB-22 234'-TrCB	23.50	6.40E+07	1.01 Y	1.08	1.20	11.4%	
PCB-36 33'5-TrCB	24.88	7.02E+07	1.01 Y	1.17	1.32	12.8%	
PCB-39 34'5-TrCB	25.20	7.23E+07	1.00 Y	1.21	1.36	12.2%	
PCB-38 345-TrCB	25.73	6.46E+07	1.02 Y	1.10	1.21	10.0%	
PCB-35 33'4-TrCB	26.12	6.15E+07	1.01 Y	1.04	1.16	11.2%	
PCB-37 344'-TrCB	26.49	6.45E+07	1.00 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.45	4.44E+07	0.81 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.43	8.28E+07	0.78 Y	0.88	0.92	5.5%	
PCB-45 22'36'-TeCB	23.02	3.58E+07	0.79 Y	0.77	0.80	4.3%	
PCB-51 22'46'-TeCB	23.09	4.14E+07	0.80 Y	0.86	0.93	7.7%	
PCB-46 22'36'-TeCB	23.30	3.28E+07	0.79 Y	0.70	0.73	4.8%	
PCB-52 22'55'-TeCB	24.55	4.01E+07	0.79 Y	0.84	0.89	6.0%	
PCB-73 23'5'6'-TeCB	24.68	5.28E+07	0.79 Y	1.11	1.18	6.1%	



Lab ID: - Ax2 Detail			Processed: 30-Mar-2014 14:23			
Lab ID:	CS3_140327_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	27-MAR-2014 10:37					
Datafile:	140327X01					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.78	3.45E+07	0.78 Y	0.71	0.77	8.5%
PCB-69/49 23'46'/22'45'-TeCB	24.97	9.84E+07	0.79 Y	1.02	1.10	7.4%
PCB-48 22'45'-TeCB	25.25	4.06E+07	0.79 Y	0.84	0.91	8.1%
PCB-44/47/65 ...-TeCB	25.47	1.30E+08	0.79 Y	0.90	0.96	6.7%
PCB-59/62/75 ...-TeCB	25.75	1.68E+08	0.79 Y	1.17	1.25	7.1%
PCB-42 22'34'-TeCB	25.91	3.72E+07	0.78 Y	0.76	0.83	9.0%
PCB-41 22'34'-TeCB	26.25	3.27E+07	0.78 Y	0.69	0.73	5.1%
PCB-71/40 23'4'6'/22'33'-TeCB	26.34	8.33E+07	0.78 Y	0.86	0.93	8.3%
PCB-64 234'6'-TeCB	26.54	5.90E+07	0.79 Y	1.22	1.32	7.9%
PCB-72 23'55'-TeCB	27.25	5.78E+07	0.79 Y	1.21	1.29	6.7%
PCB-68 23'45'-TeCB	27.51	6.12E+07	0.79 Y	1.28	1.37	7.1%
PCB-57 233'5'-TeCB	27.88	5.51E+07	0.78 Y	1.16	1.23	5.8%
PCB-58 233'5'-TeCB	28.08	5.65E+07	0.79 Y	1.18	1.26	6.9%
PCB-67 23'45'-TeCB	28.24	5.86E+07	0.78 Y	1.26	1.31	3.8%
PCB-63 234'5'-TeCB	28.47	6.09E+07	0.78 Y	1.30	1.36	4.8%
PCB-61/70/74/76 ...-TeCB	28.76	2.23E+08	0.78 Y	1.20	1.24	3.8%
PCB-66 23'44'-TeCB	29.04	5.22E+07	0.79 Y	1.10	1.17	5.8%
PCB-55 233'4'-TeCB	29.19	5.26E+07	0.79 Y	1.12	1.17	4.9%
PCB-56 233'4'-TeCB	29.63	5.21E+07	0.79 Y	1.11	1.16	4.7%
PCB-60 2344'-TeCB	29.82	5.27E+07	0.78 Y	1.14	1.18	3.6%
PCB-80 33'55'-TeCB	30.14	6.13E+07	0.79 Y	1.31	1.37	4.1%
PCB-79 33'45'-TeCB	31.46	6.18E+07	0.79 Y	1.31	1.38	5.6%
PCB-78 33'45'-TeCB	31.95	4.98E+07	0.80 Y	1.06	1.11	4.7%
PCB-104 22'466'-PeCB	25.42	4.26E+07	0.64 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.74	3.70E+07	0.64 Y	1.23	1.20	-2.6%
PCB-103 22'45'6'-PeCB	27.43	3.57E+07	0.61 Y	0.93	0.95	1.7%
PCB-94 22'356'-PeCB	27.62	3.00E+07	0.61 Y	0.80	0.79	-0.6%
PCB-95 22'35'6'-PeCB	28.00	3.26E+07	0.61 Y	0.87	0.86	-0.1%
PCB-100/93 22'44'6'/22'356'-PeC	28.21	6.60E+07	0.61 Y	0.86	0.88	1.4%
PCB-102 22'456'-PeCB	28.33	3.93E+07	0.62 Y	0.97	1.04	7.7%
PCB-98 22'34'6'-PeCB	28.39	2.74E+07	0.62 Y	0.76	0.73	-4.1%
PCB-88 22'346'-PeCB	28.70	2.98E+07	0.61 Y	0.80	0.79	-0.7%
PCB-91 22'34'6'-PeCB	28.76	3.45E+07	0.62 Y	0.94	0.91	-3.1%
PCB-84 22'33'6'-PeCB	28.95	2.72E+07	0.62 Y	0.72	0.72	1.1%
PCB-89 22'346'-PeCB	29.37	2.88E+07	0.61 Y	0.76	0.76	0.1%
PCB-121 23'45'6'-PeCB	29.71	4.59E+07	0.62 Y	1.20	1.22	1.6%
PCB-92 22'355'-PeCB	30.03	3.11E+07	0.61 Y	0.82	0.83	0.6%
PCB-113/90/101 ...-PeCB	30.51	1.11E+08	0.62 Y	0.99	0.98	-0.3%
PCB-83 22'33'5'-PeCB	30.95	2.69E+07	0.60 Y	0.71	0.71	-0.1%

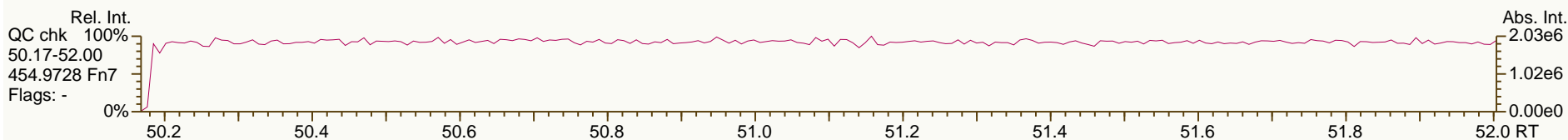
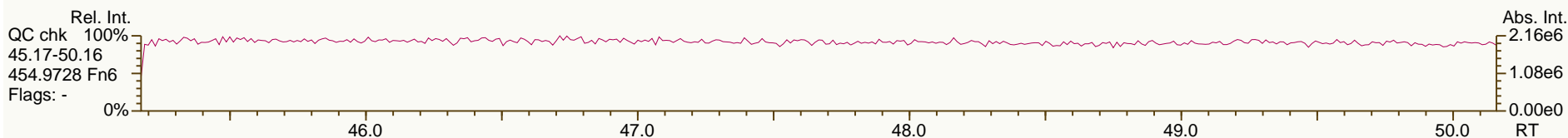
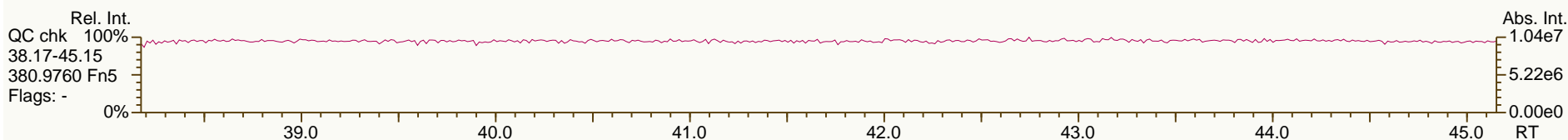
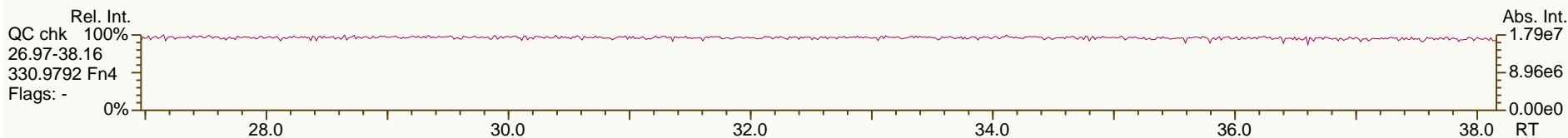
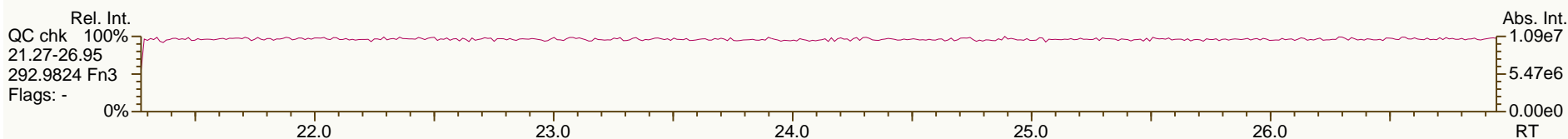
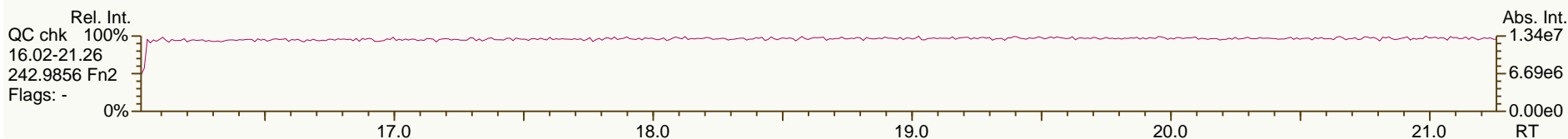
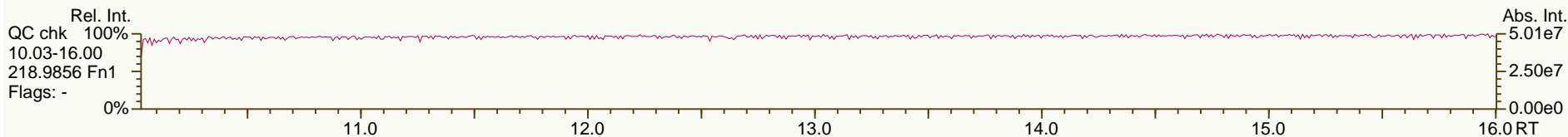
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Lab ID:	CS3_140327_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	27-MAR-2014 10:37					
Datafile:	140327X01					
Name	RT	Response	RA		RRF	
PCB-99 22'44'5-PeCB	31.04	3.42E+07	0.62 Y	0.92	0.91	-1.5%
PCB-112 233'56-PeCB	31.14	4.41E+07	0.62 Y	1.17	1.17	0.2%
PCB-108/119/86/97/125...-PeCB	31.49	2.25E+08	0.62 Y	0.98	1.00	1.7%
PCB-117 234'56-PeCB	32.02	3.96E+07	0.61 Y	1.14	1.05	-7.7%
PCB-116/85 23456/22'344'-PeCl	32.11	7.42E+07	0.62 Y	0.94	0.98	4.6%
PCB-110 233'4'6-PeCB	32.23	4.20E+07	0.62 Y	1.12	1.12	-0.3%
PCB-115 2344'6-PeCB	32.32	4.32E+07	0.61 Y	1.16	1.15	-1.1%
PCB-82 22'33'4-PeCB	32.51	2.61E+07	0.60 Y	0.70	0.69	-0.7%
PCB-111 233'55'-PeCB	32.83	4.54E+07	0.61 Y	1.22	1.20	-1.3%
PCB-120 23'455'-PeCB	33.22	4.61E+07	0.62 Y	1.21	1.22	1.0%
PCB-107/124 ...-PeCB	34.19	8.26E+07	0.62 Y	1.10	1.10	-0.2%
PCB-109 233'46-PeCB	34.40	4.67E+07	0.60 Y	1.25	1.24	-1.0%
PCB-106 233'45-PeCB	34.62	4.06E+07	0.62 Y	1.11	1.08	-2.5%
PCB-122 233'4'5'-PeCB	35.08	3.83E+07	0.61 Y	0.99	1.00	0.9%
PCB-127 33'455'-PeCB	37.02	4.12E+07	0.62 Y	1.10	1.09	-0.8%
PCB-155 22'44'66'-HxCB	30.37	4.80E+07	1.27 Y	1.26	-	-
PCB-152 22'3566'-HxCB	30.53	4.43E+07	1.27 Y	1.17	1.11	-5.7%
PCB-150 22'34'66'-HxCB	30.67	4.49E+07	1.26 Y	1.18	1.12	-4.7%
PCB-136 22'33'66'-HxCB	30.98	4.11E+07	1.27 Y	1.07	1.03	-3.7%
PCB-145 22'3466'-HxCB	31.25	4.20E+07	1.26 Y	1.11	1.05	-5.8%
PCB-148 22'34'56'-HxCB	32.52	3.18E+07	1.25 Y	1.18	1.12	-5.0%
PCB-151/135 ...-HxCB	33.04	6.03E+07	1.26 Y	1.14	1.06	-6.5%
PCB-154 22'44'56'-HxCB	33.25	3.53E+07	1.26 Y	1.34	1.25	-7.1%
PCB-144 22'345'6-HxCB	33.51	3.12E+07	1.28 Y	1.18	1.10	-6.8%
PCB-147/149 ...-HxCB	33.81	6.26E+07	1.26 Y	1.18	1.11	-6.0%
PCB-134 22'33'56-HxCB	33.98	2.23E+07	1.25 Y	0.92	0.79	-14.8%
PCB-143 22'3456'-HxCB	34.06	3.13E+07	1.28 Y	1.13	1.10	-2.2%
PCB-139/140 ...-HxCB	34.33	6.29E+07	1.27 Y	1.21	1.11	-7.9%
PCB-131 22'33'46-HxCB	34.50	2.66E+07	1.27 Y	1.03	0.94	-8.3%
PCB-142 22'3456-HxCB	34.65	2.62E+07	1.26 Y	0.99	0.93	-6.5%
PCB-132 22'33'46'-HxCB	34.88	2.75E+07	1.29 Y	1.03	0.97	-5.9%
PCB-133 22'33'55'-HxCB	35.29	2.96E+07	1.27 Y	1.13	1.04	-7.7%
PCB-165 233'55'6-HxCB	35.63	3.71E+07	1.26 Y	1.41	1.31	-7.1%
PCB-146 22'34'55'-HxCB	35.84	3.23E+07	1.25 Y	1.20	1.14	-5.2%
PCB-161 233'45'6-HxCB	35.96	4.01E+07	1.28 Y	1.52	1.42	-6.8%
PCB-153/168 ...-HxCB	36.39	7.86E+07	1.26 Y	1.46	1.39	-4.7%
PCB-141 22'3455'-HxCB	36.53	2.93E+07	1.26 Y	1.09	1.03	-5.0%
PCB-130 22'33'45'-HxCB	36.88	2.60E+07	1.25 Y	0.97	0.92	-5.6%
PCB-137 22'344'5-HxCB	37.08	3.21E+07	1.25 Y	1.16	1.14	-2.4%
PCB-164 233'4'5'6-HxCB	37.16	3.91E+07	1.28 Y	1.50	1.38	-7.8%
PCB-163/138/129 ...-HxCB	37.45	9.44E+07	1.26 Y	1.19	1.11	-6.6%

Lab ID: - Ax2 Detail			Processed: 30-Mar-2014 14:23			
Lab ID:	CS3_140327_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	27-MAR-2014 10:37					
Datafile:	140327X01					
Name	RT	Response	RA		RRF	
PCB-160 233'456'-HxCB	37.59	3.69E+07	1.27 Y	1.52	1.30	-14.0%
PCB-158 233'44'6'-HxCB	37.77	4.23E+07	1.27 Y	1.66	1.50	-10.0%
PCB-128/166 ...-HxCB	38.50	6.23E+07	1.20 Y	0.90	0.89	-0.7%
PCB-159 233'455'-HxCB	39.31	3.74E+07	1.22 Y	1.11	1.07	-3.8%
PCB-162 233'4'55'-HxCB	39.55	3.71E+07	1.21 Y	1.07	1.06	-0.7%
PCB-188 22'34'566'-HpCB	35.24	3.28E+07	1.07 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.52	3.08E+07	1.07 Y	1.16	1.08	-7.0%
PCB-184 22'344'66'-HpCB	35.98	2.93E+07	1.06 Y	1.13	1.03	-9.1%
PCB-176 22'33'466'-HpCB	36.28	3.25E+07	1.07 Y	1.23	1.14	-7.5%
PCB-186 22'34566'-HpCB	36.68	3.05E+07	1.07 Y	1.13	1.07	-5.1%
PCB-178 22'33'55'6'-HpCB	37.80	2.16E+07	1.05 Y	0.84	0.76	-10.1%
PCB-175 22'33'45'6'-HpCB	38.35	2.78E+07	1.05 Y	1.07	1.08	0.7%
PCB-187 22'34'55'6'-HpCB	38.57	2.96E+07	1.04 Y	1.14	1.15	1.0%
PCB-182 22'344'56'-HpCB	38.75	3.06E+07	1.06 Y	1.18	1.19	1.3%
PCB-183 22'344'5'6'-HpCB	39.10	3.14E+07	1.04 Y	1.20	1.22	1.4%
PCB-185 22'3455'6'-HpCB	39.18	2.66E+07	1.07 Y	1.06	1.03	-2.6%
PCB-174 22'33'456'-HpCB	39.29	2.53E+07	1.06 Y	0.99	0.98	-0.7%
PCB-177 22'33'45'6'-HpCB	39.67	2.44E+07	1.06 Y	0.95	0.95	-0.4%
PCB-181 22'344'56'-HpCB	40.02	2.75E+07	1.05 Y	1.09	1.07	-1.7%
PCB-171/173 ...-HpCB	40.20	4.87E+07	1.05 Y	0.95	0.95	-0.2%
PCB-172 22'33'455'-HpCB	41.55	2.50E+07	1.04 Y	0.99	0.97	-1.8%
PCB-192 233'455'6'-HpCB	41.79	3.25E+07	1.05 Y	1.29	1.26	-2.0%
PCB-180/193 ...-HpCB	42.07	6.39E+07	1.05 Y	1.26	1.24	-1.6%
PCB-191 233'44'5'6'-HpCB	42.40	3.48E+07	1.05 Y	1.40	1.35	-3.2%
PCB-170 22'33'44'5'-HpCB	43.17	2.42E+07	1.05 Y	1.14	1.14	0.0%
PCB-190 233'44'56'-HpCB	43.62	3.32E+07	1.06 Y	1.66	1.56	-6.4%
PCB-202 22'33'55'66'-OcCB	39.77	2.70E+07	0.91 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.56	3.02E+07	0.91 Y	1.22	1.13	-7.1%
PCB-204 22'344'566'-OcCB	41.13	2.81E+07	0.92 Y	1.12	1.06	-5.4%
PCB-197 22'33'44'66'-OcCB	41.32	3.01E+07	0.89 Y	1.19	1.13	-5.0%
PCB-200 22'33'4566'-OcCB	41.41	2.86E+07	0.92 Y	1.11	1.07	-3.0%
PCB-198/199 ...-OcCB	43.73	3.83E+07	0.91 Y	0.81	0.72	-11.0%
PCB-196 22'33'44'56'-OcCB	44.31	2.03E+07	0.92 Y	0.83	0.76	-8.3%
PCB-203 22'344'55'6'-OcCB	44.48	2.05E+07	0.91 Y	0.87	0.77	-11.6%
PCB-195 22'33'44'56'-OcCB	45.60	1.78E+07	0.92 Y	0.77	0.80	3.7%
PCB-194 22'33'44'55'-OcCB	47.54	1.90E+07	0.91 Y	0.84	0.85	1.0%
PCB-205 233'44'55'6'-OcCB	47.94	2.34E+07	0.93 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.40	2.78E+07	0.78 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.18	2.86E+07	0.78 Y	1.19	1.13	-4.8%
PCB-206 22'33'44'55'6'-NoCB	49.40	1.73E+07	0.79 Y	1.11	-	-

SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

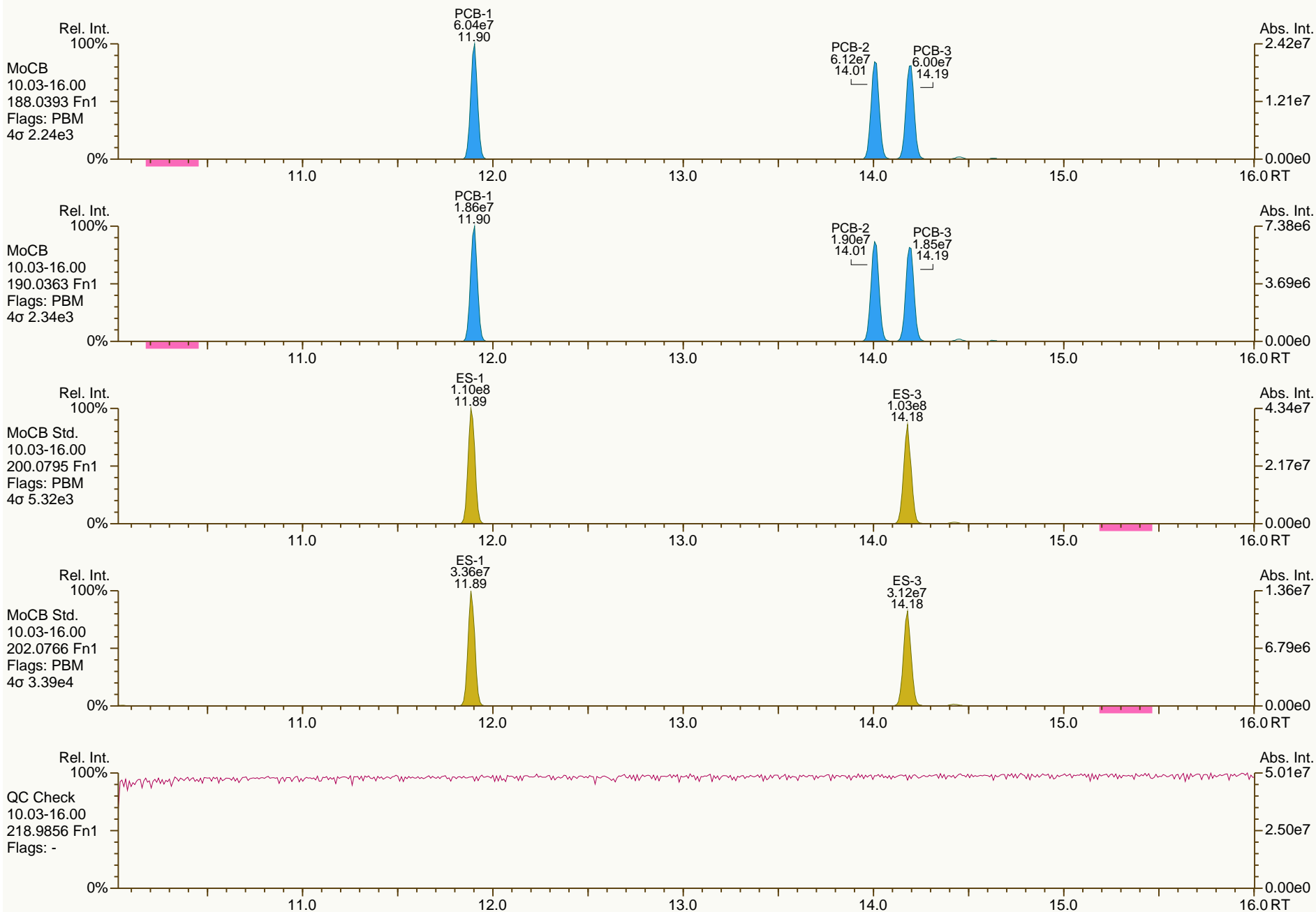
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User: LKB Datafile: 140327X01



SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

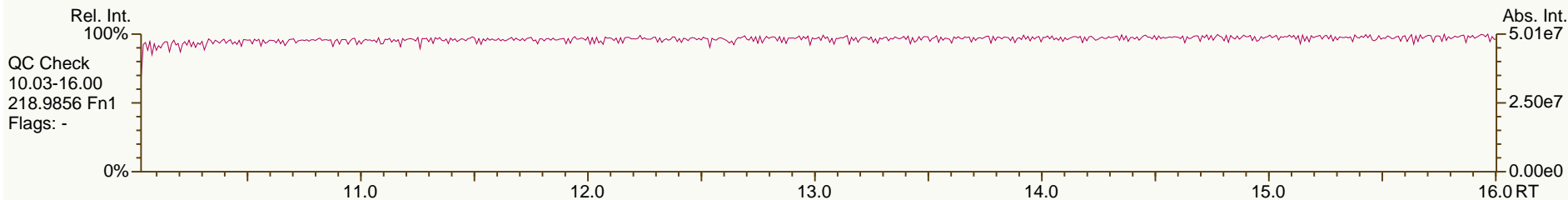
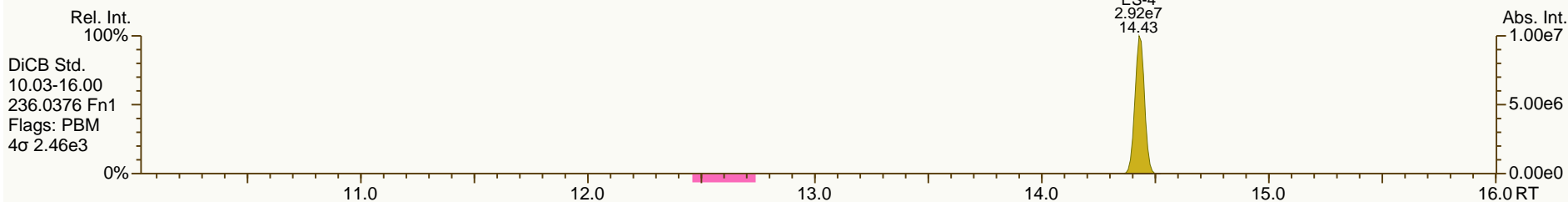
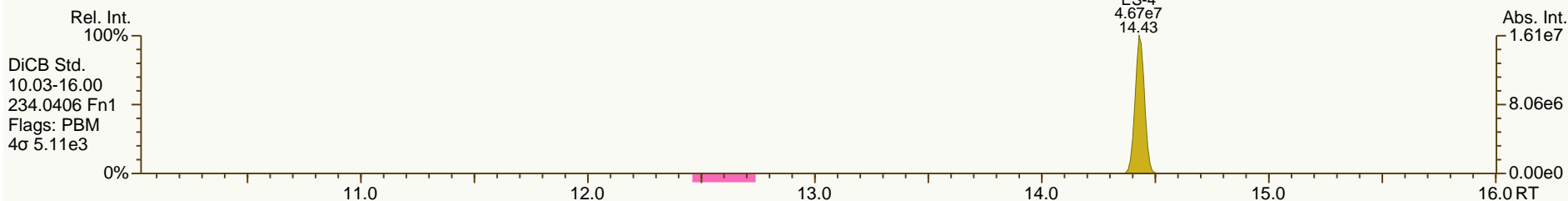
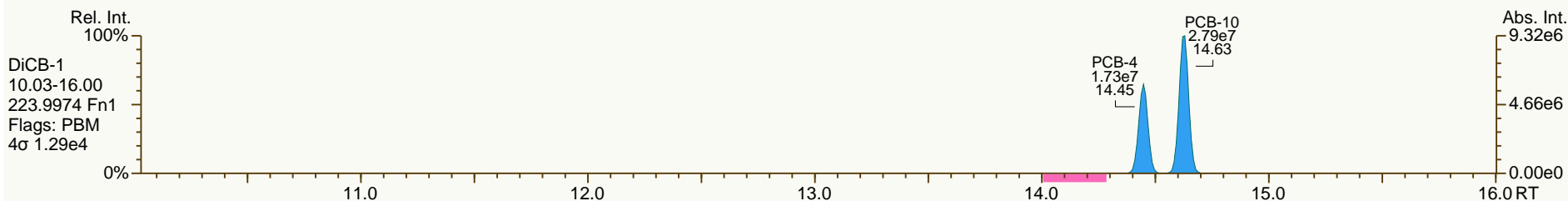
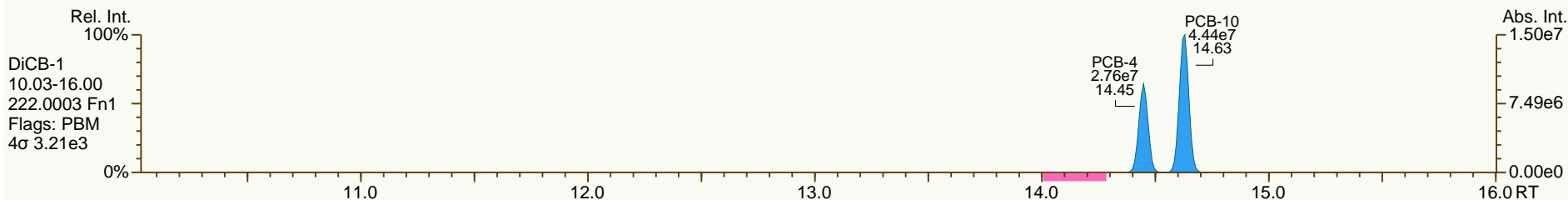
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

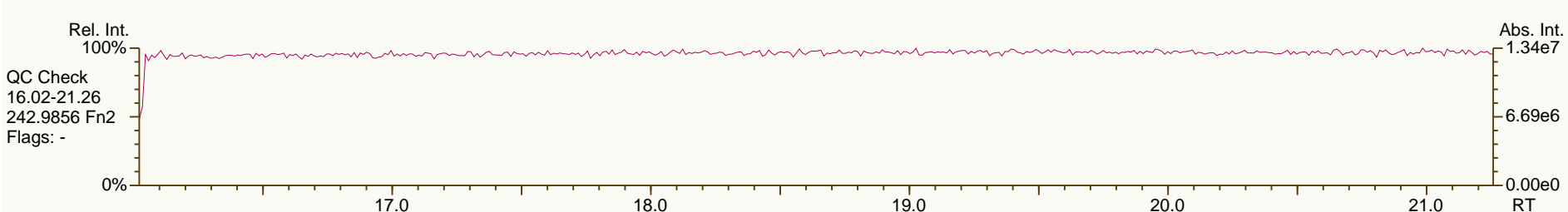
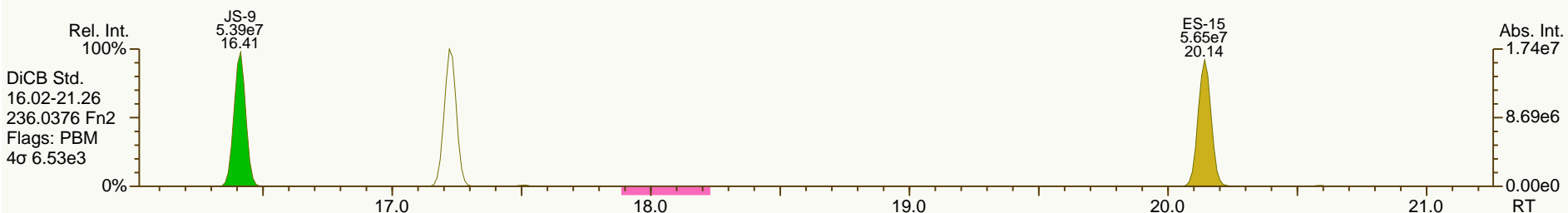
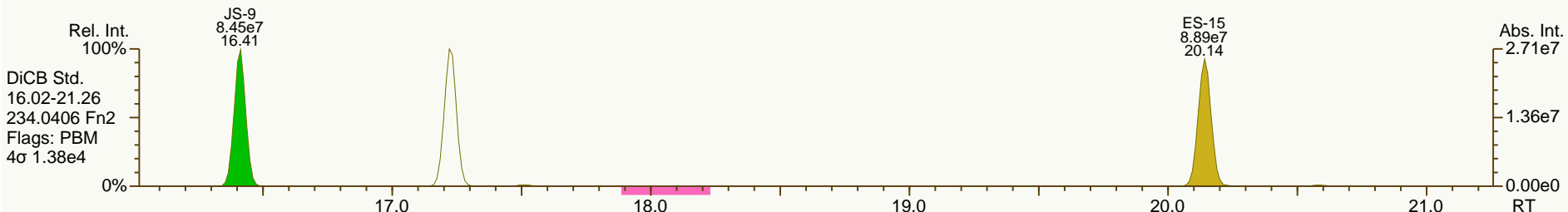
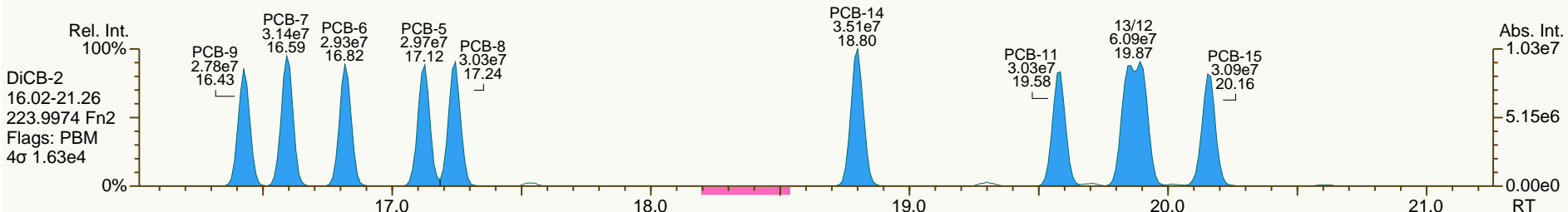
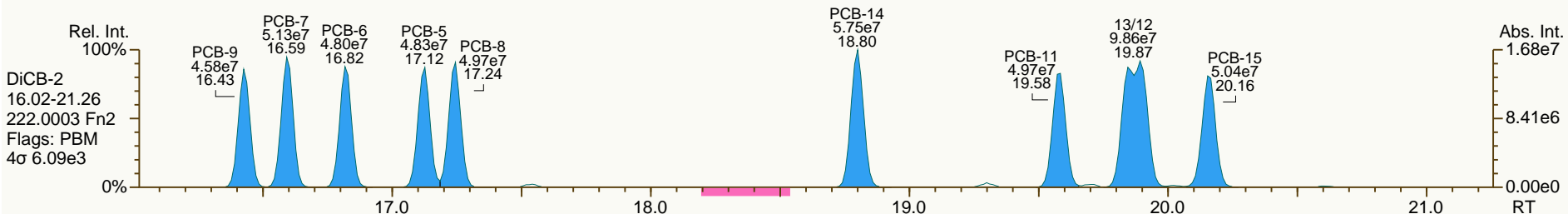
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SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

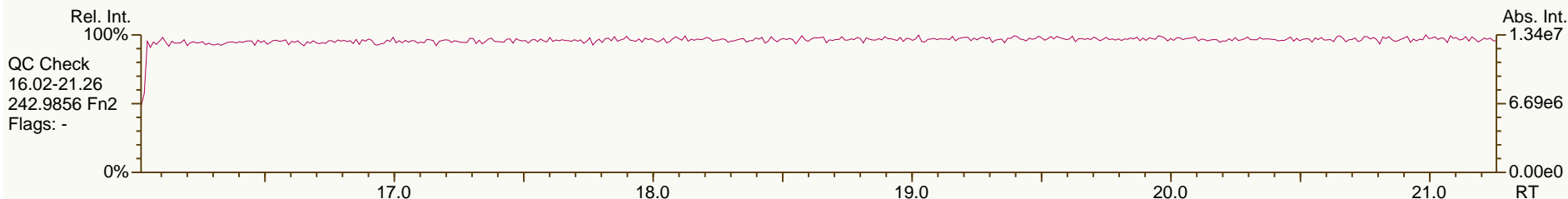
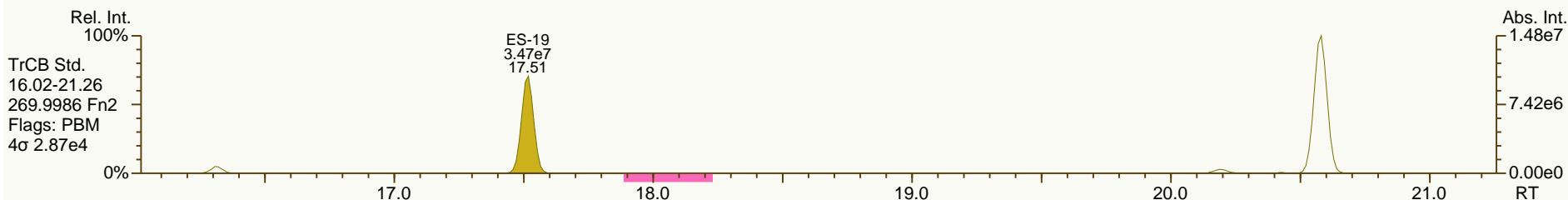
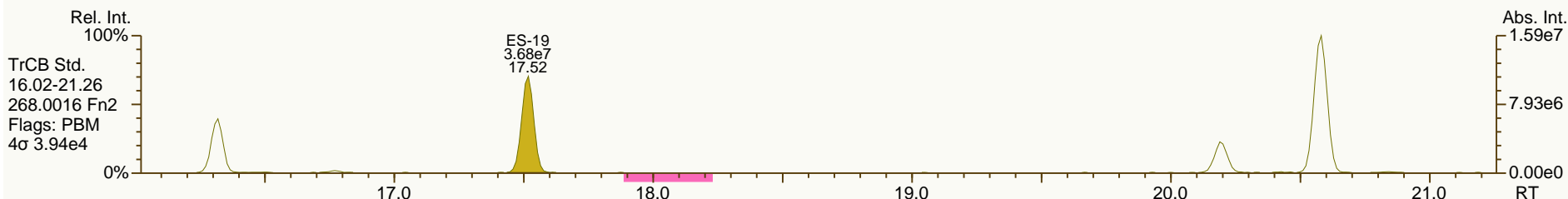
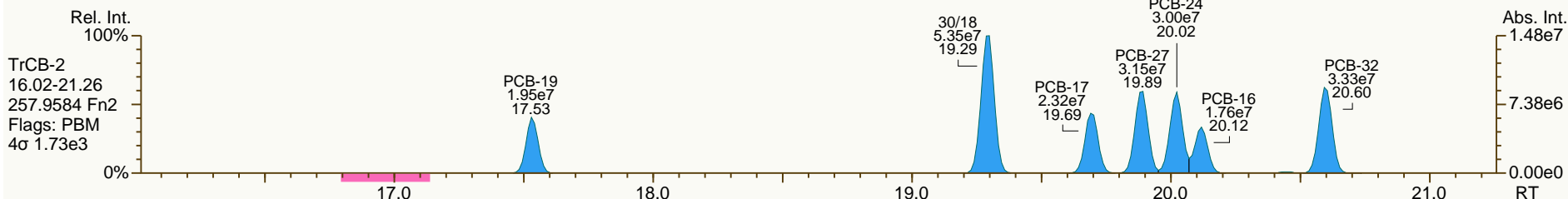
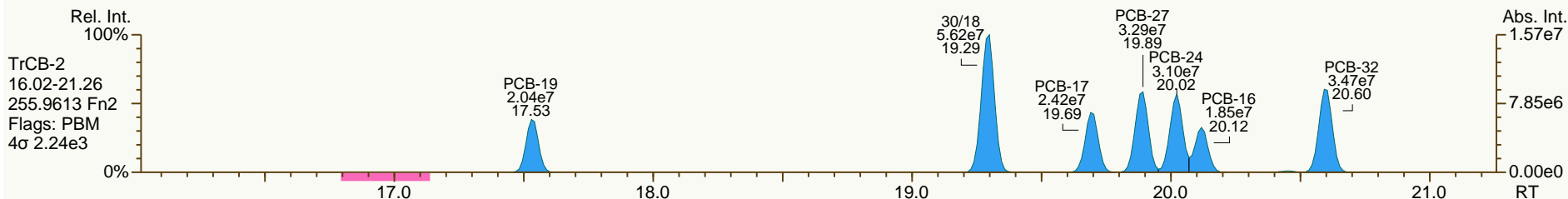
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 27-Mar-2014 10:37:58  
User: LKB Datafile: 140327X01

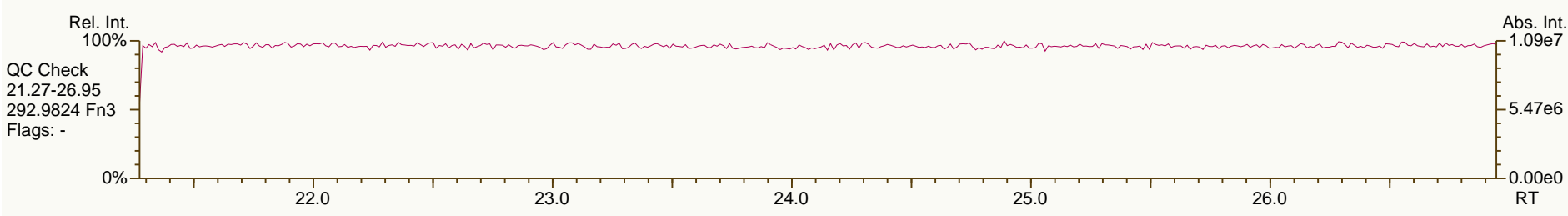
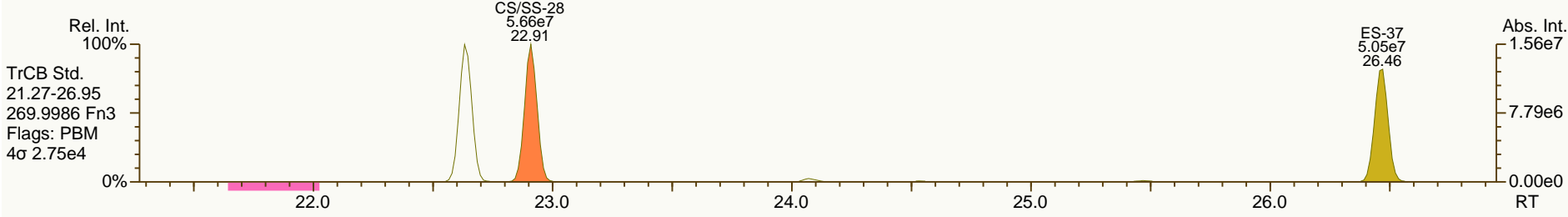
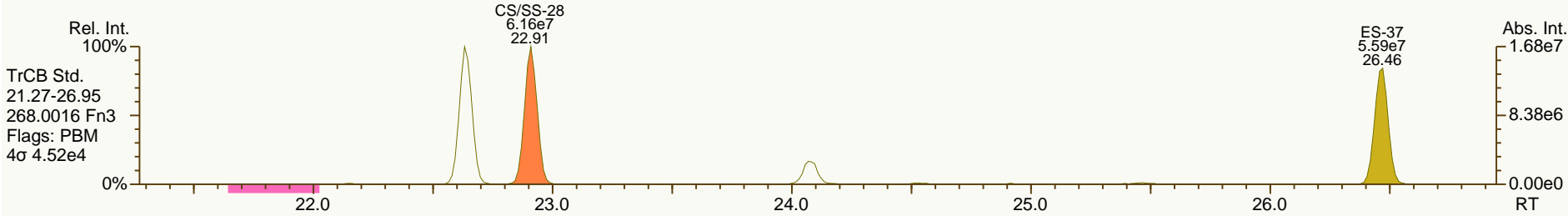
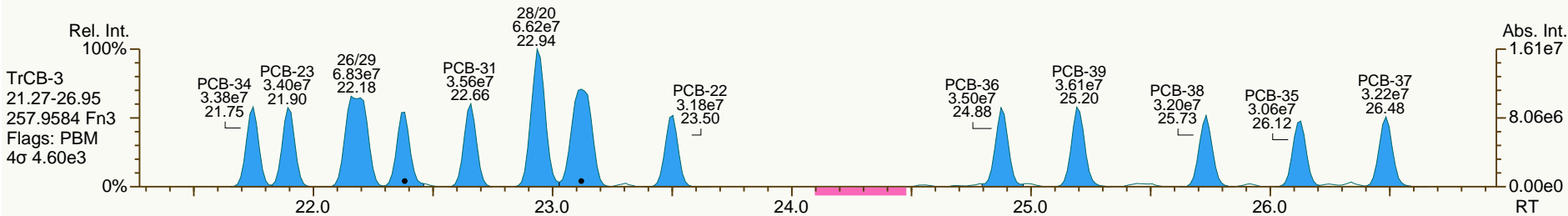
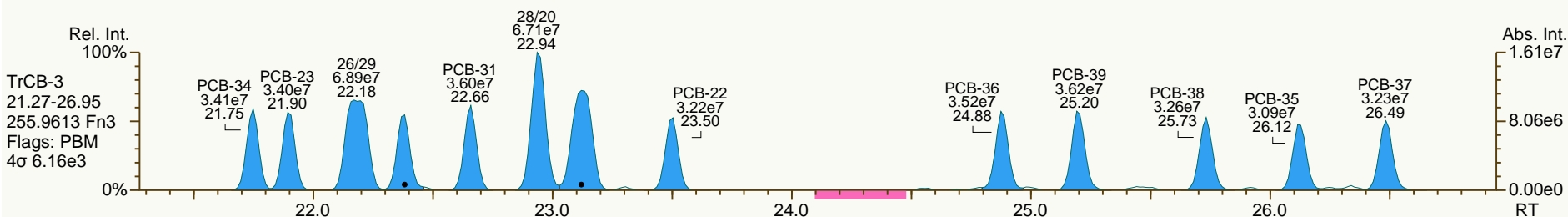




SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

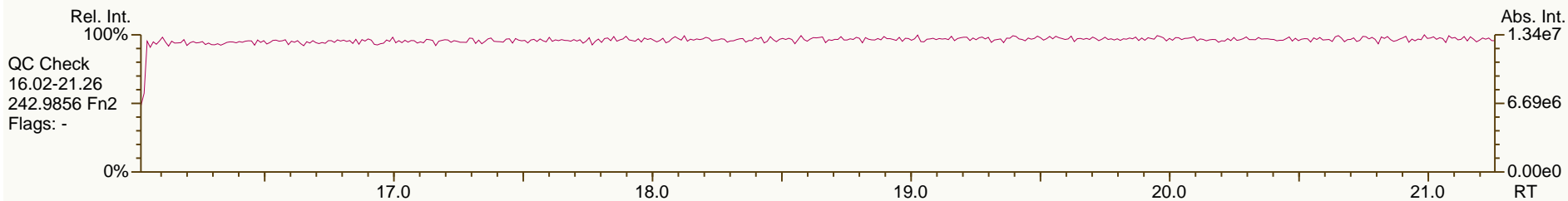
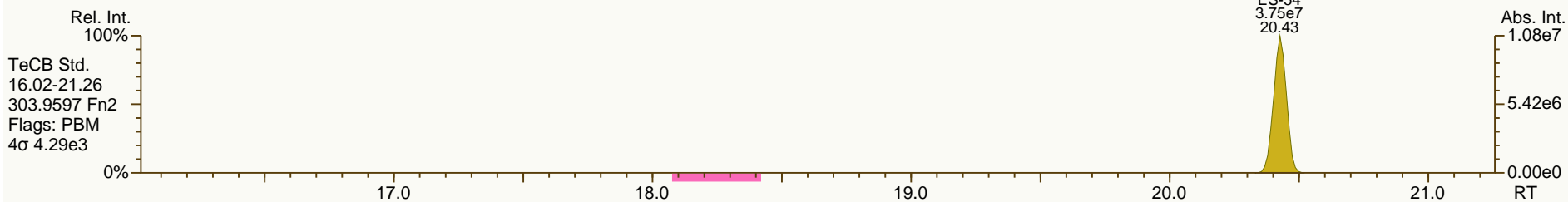
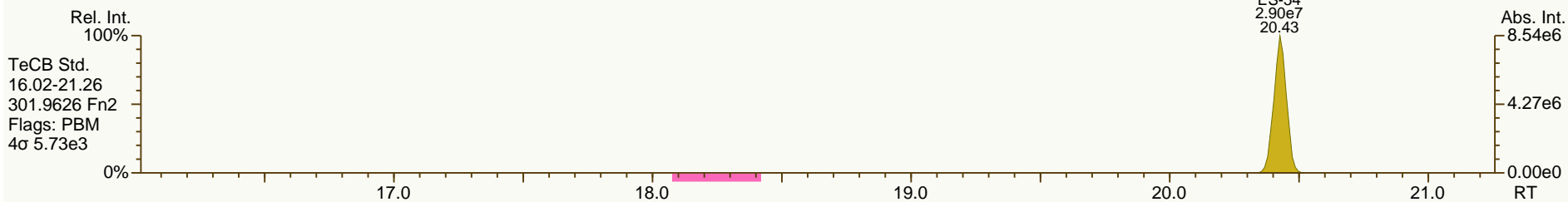
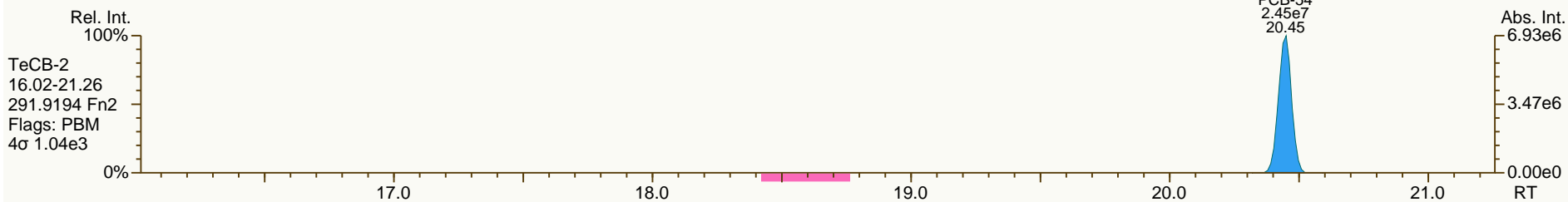
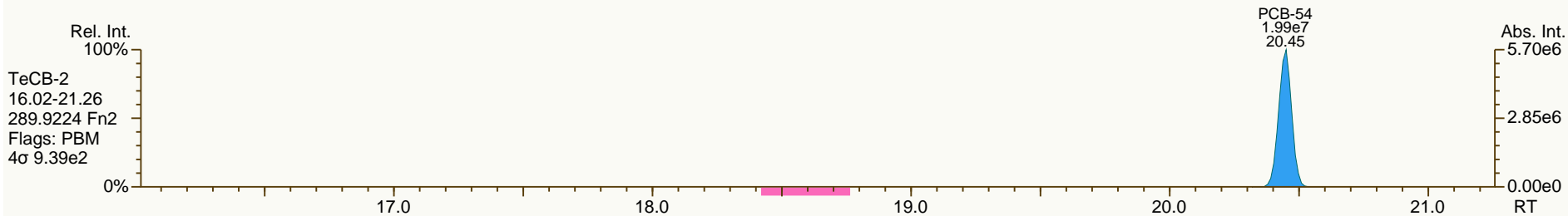
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User: LKB Datafile: 140327X01



SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 27-Mar-2014 10:37:58  
 User: LKB Datafile: 140327X01



SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

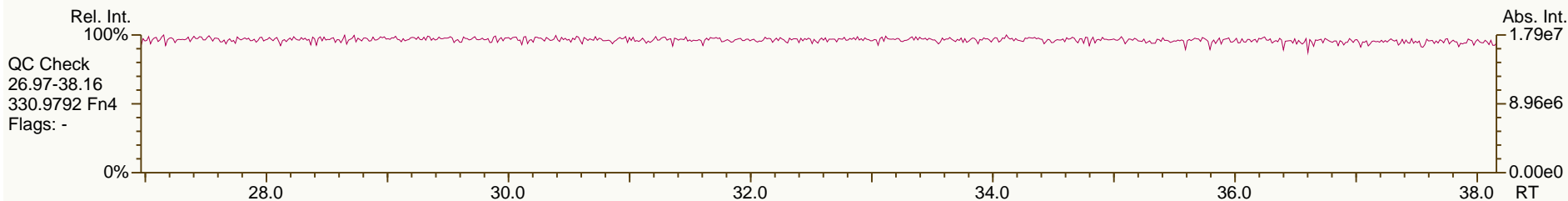
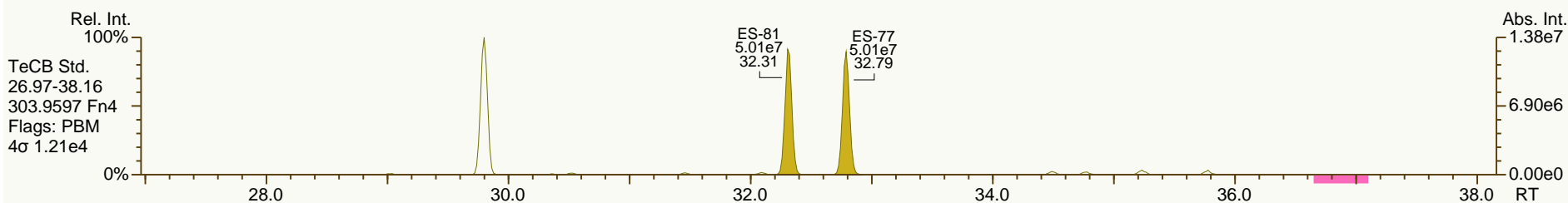
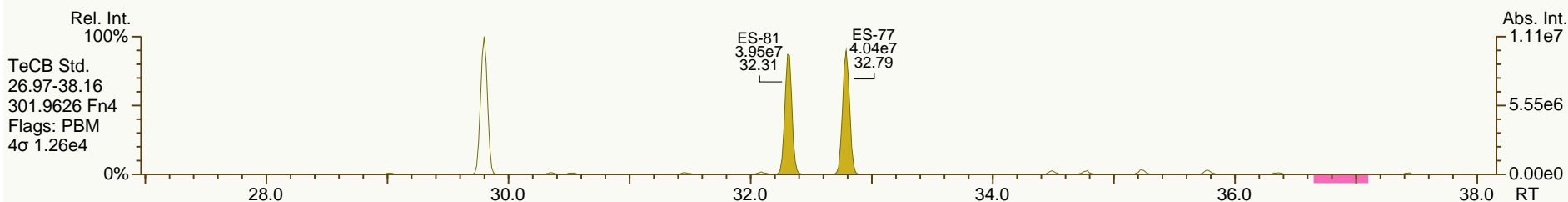
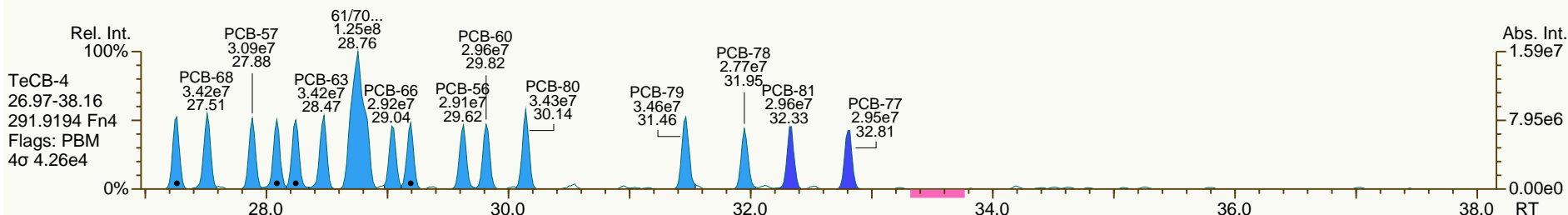
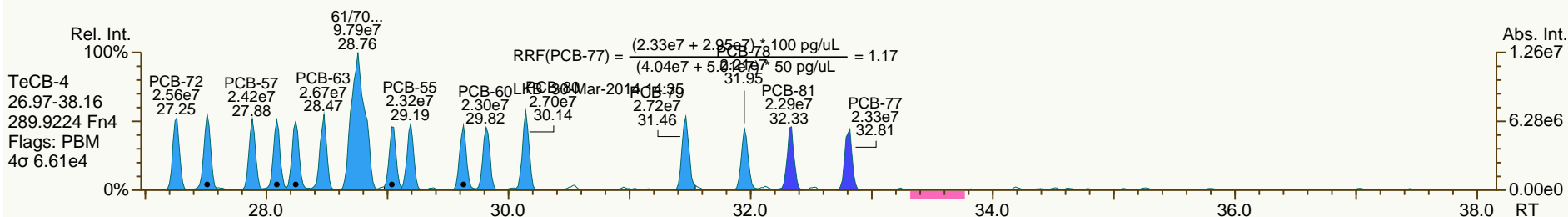
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SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

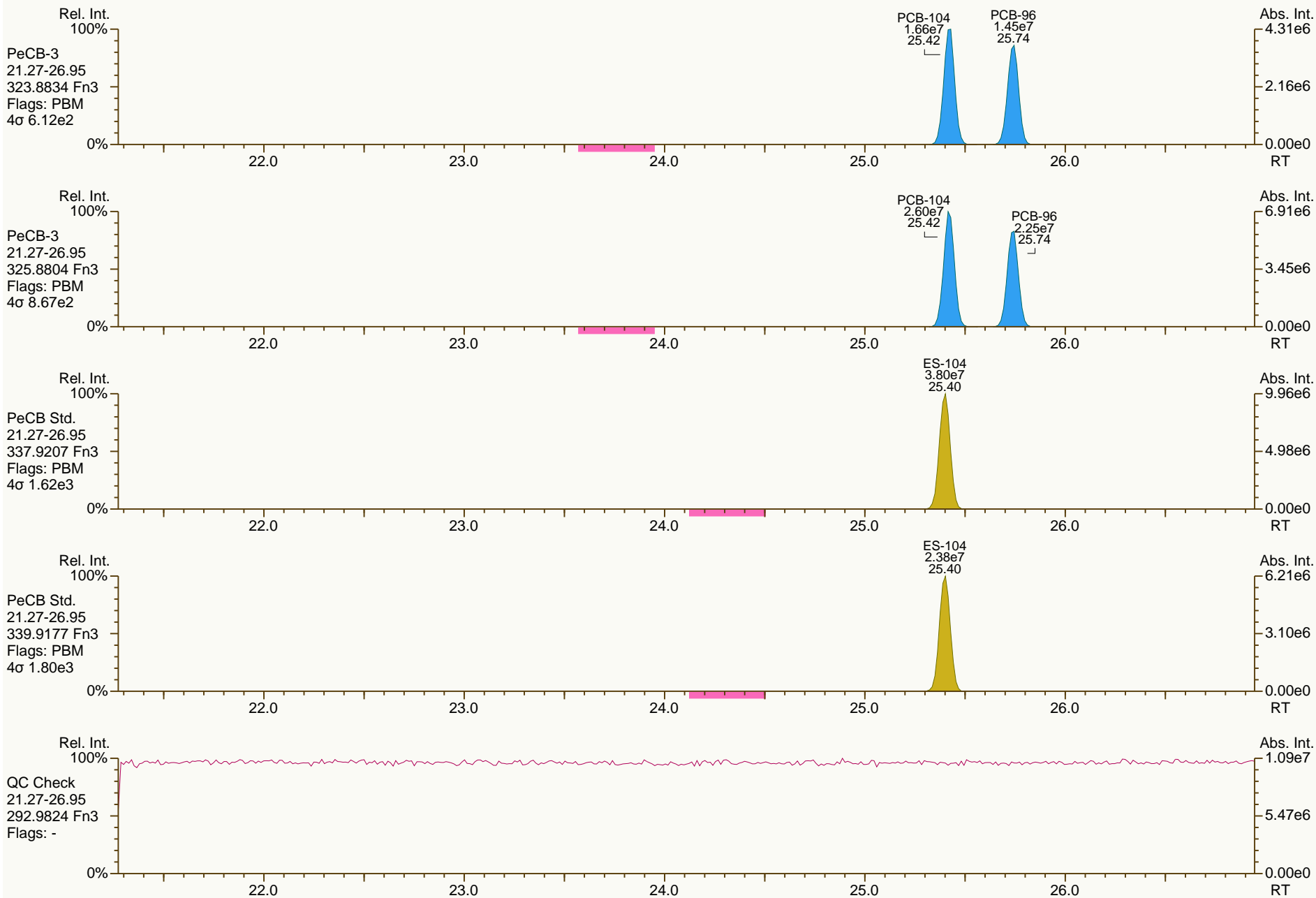
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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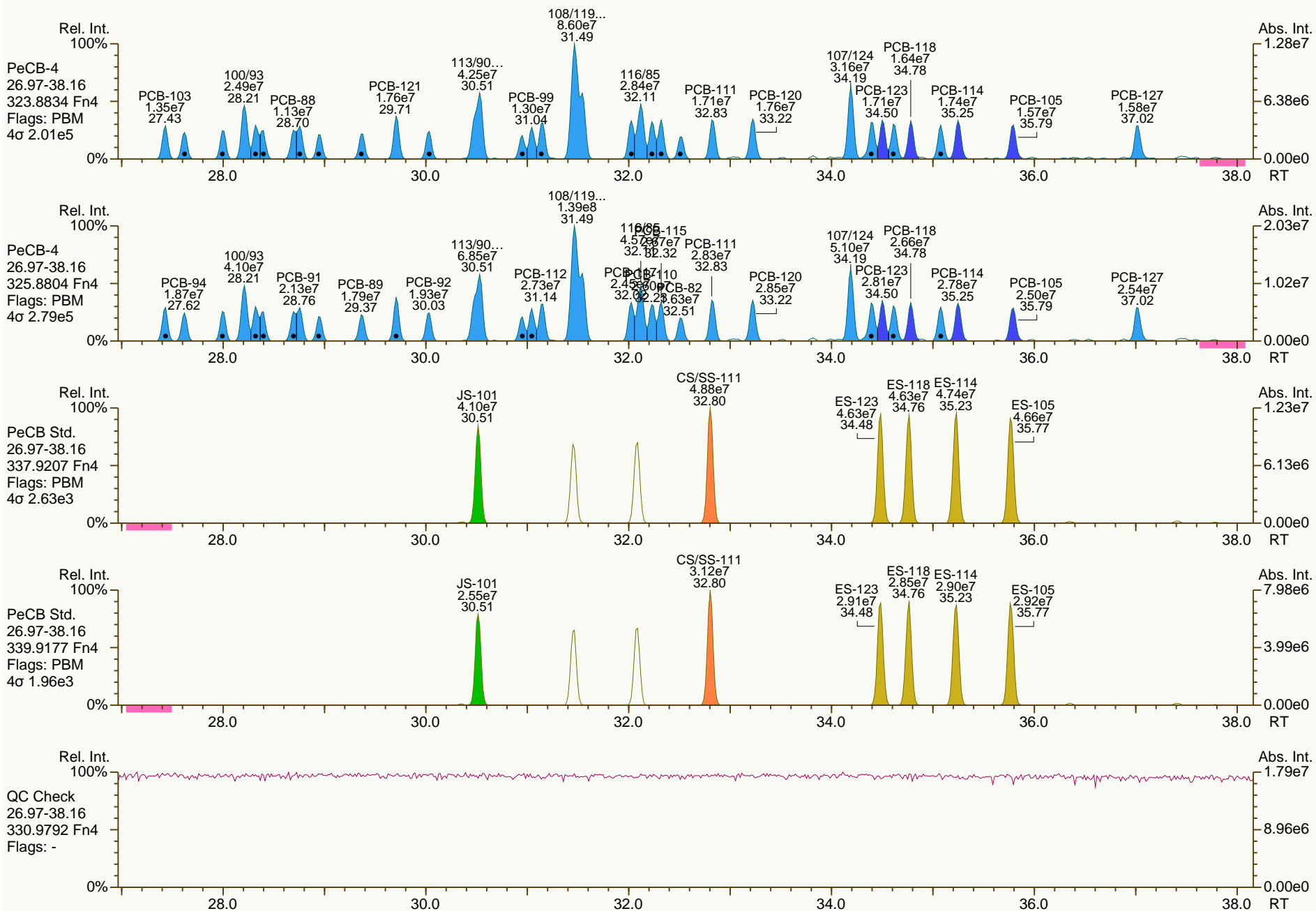
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

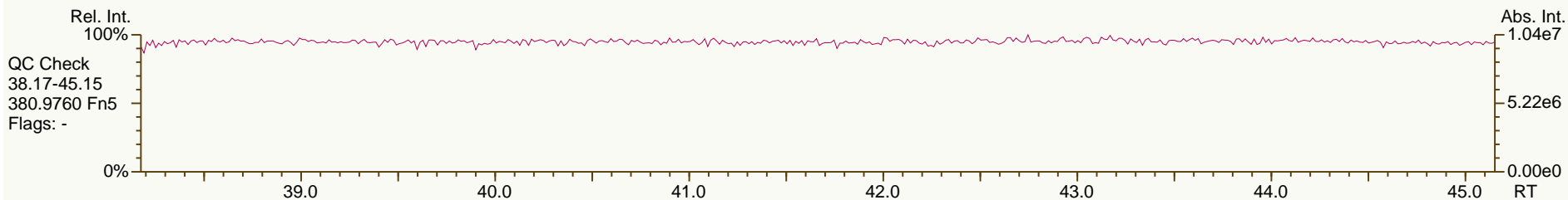
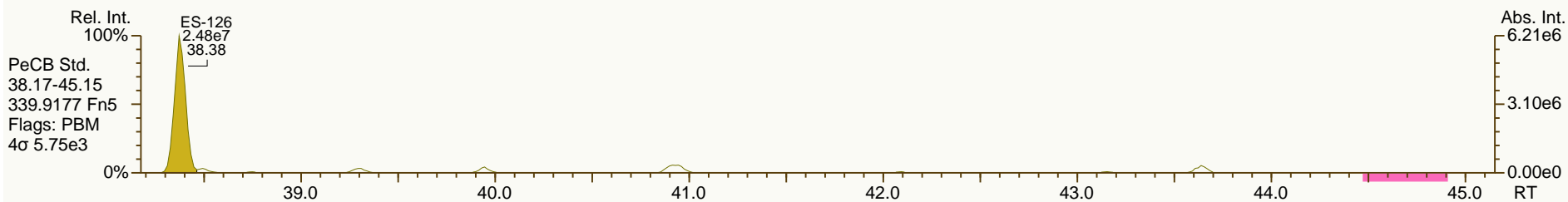
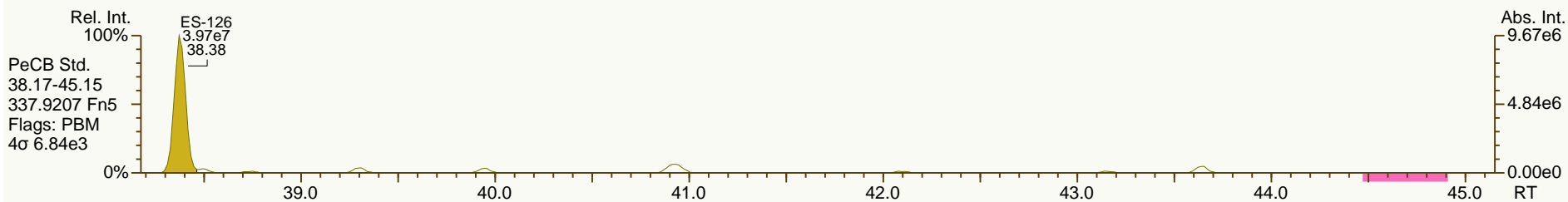
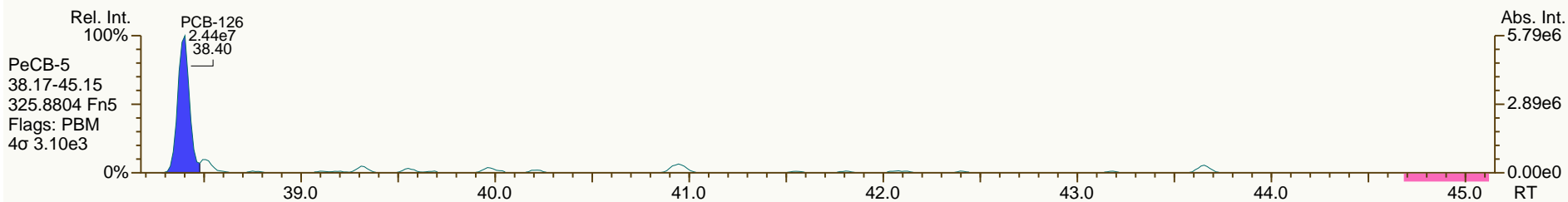
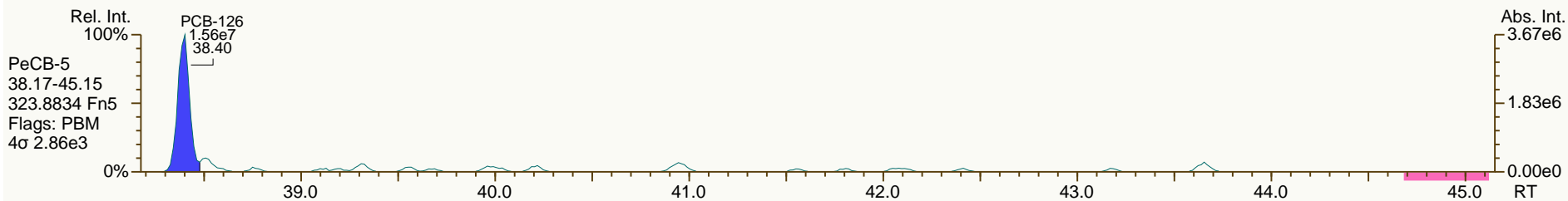
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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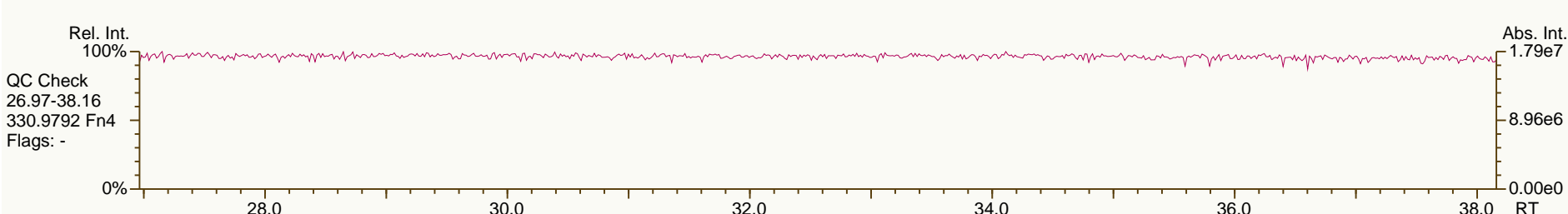
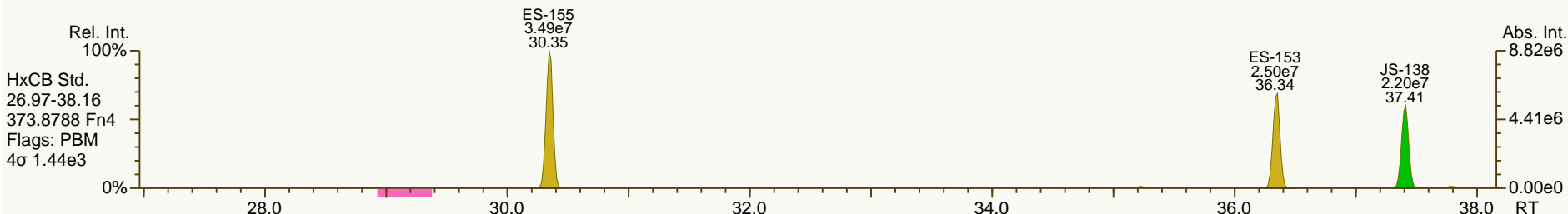
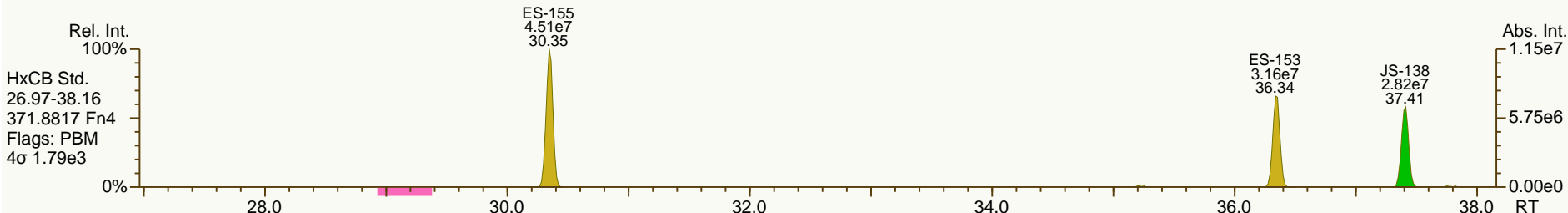
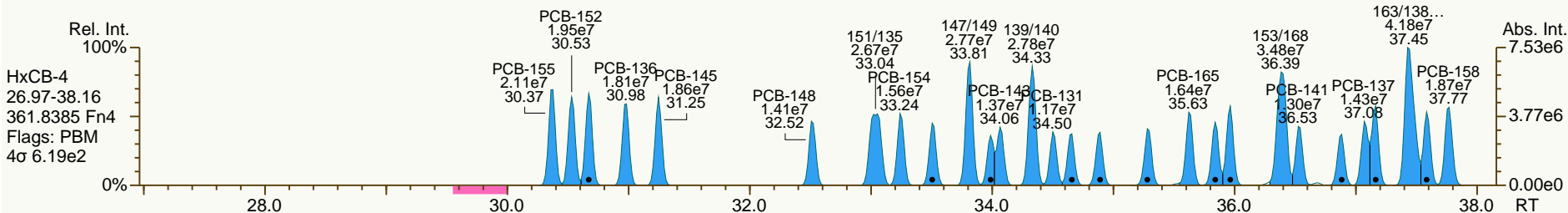
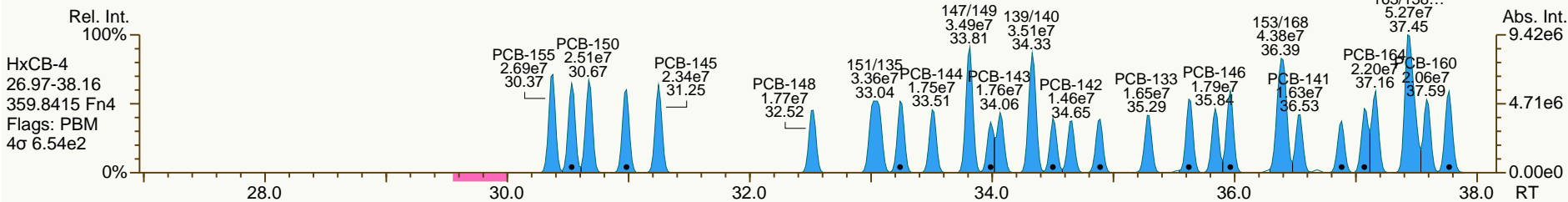
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SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 27-Mar-2014 10:37:58  
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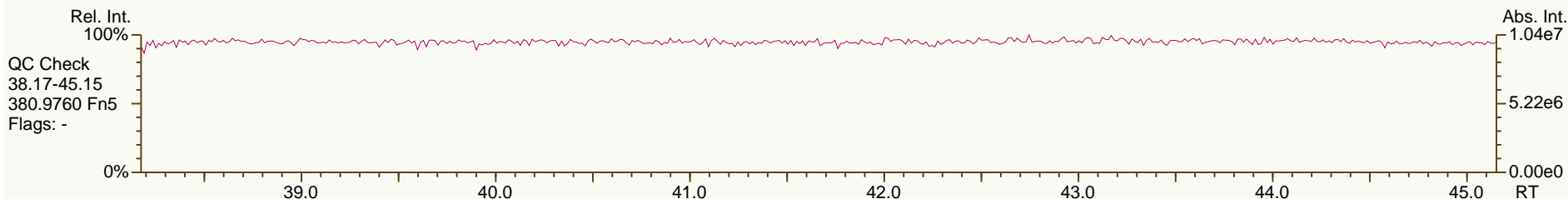
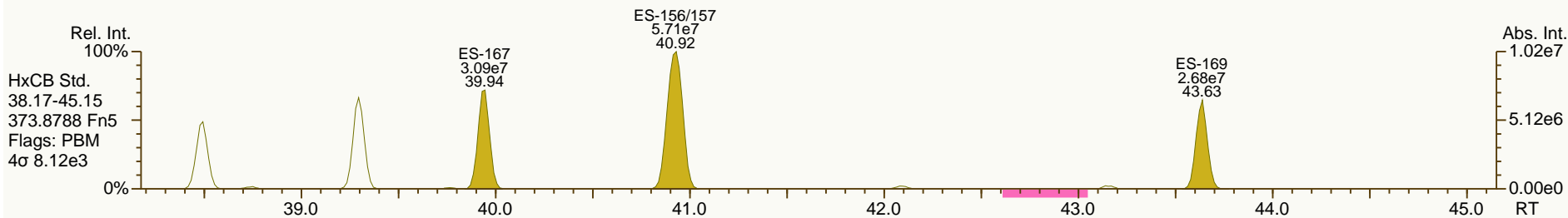
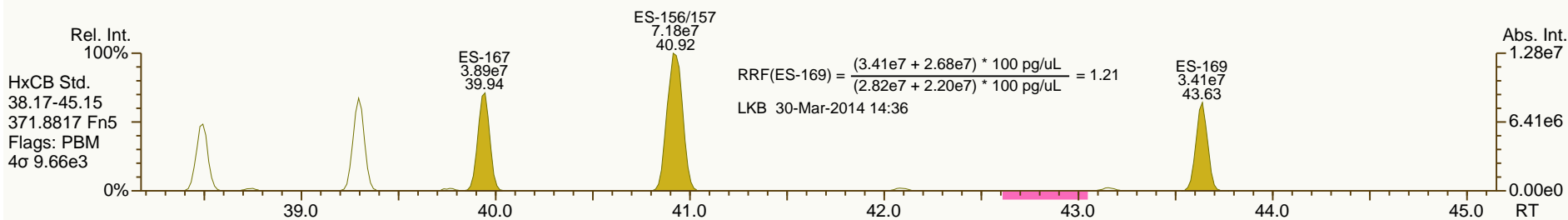
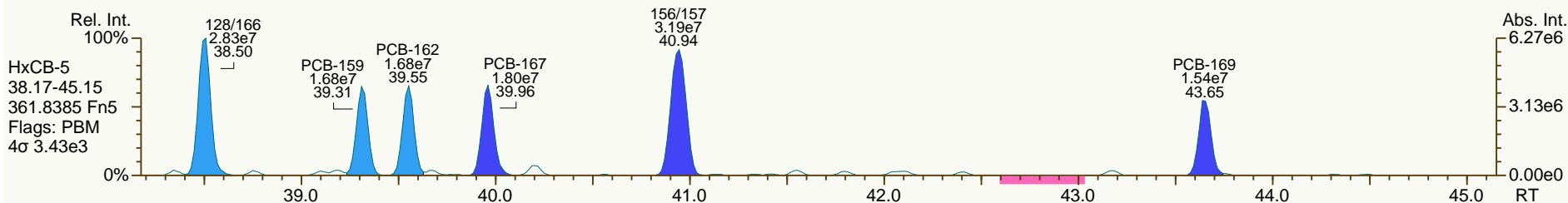
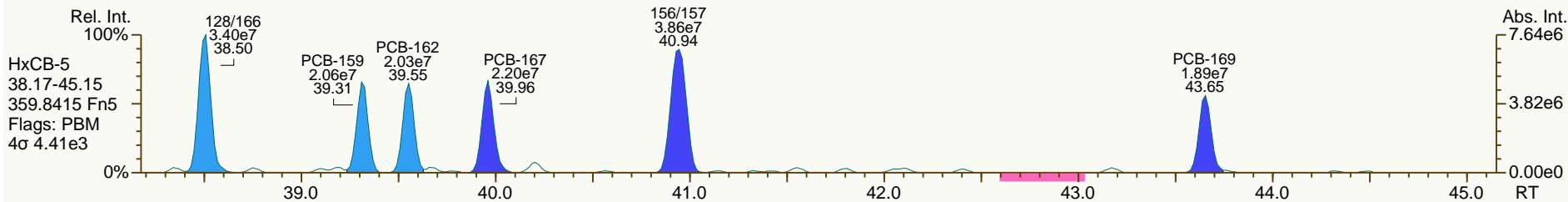




SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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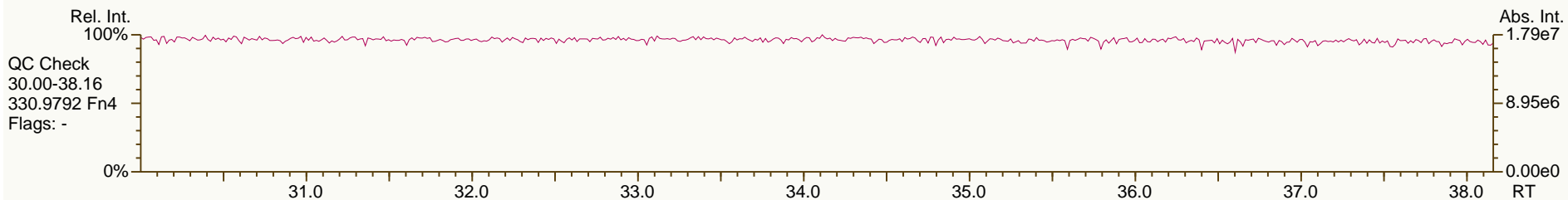
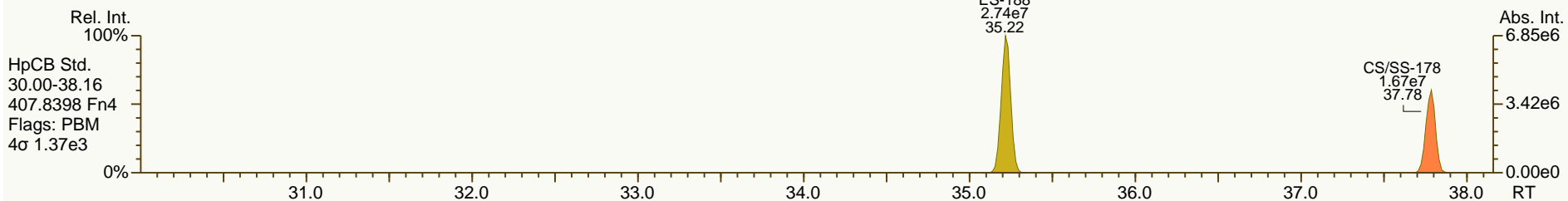
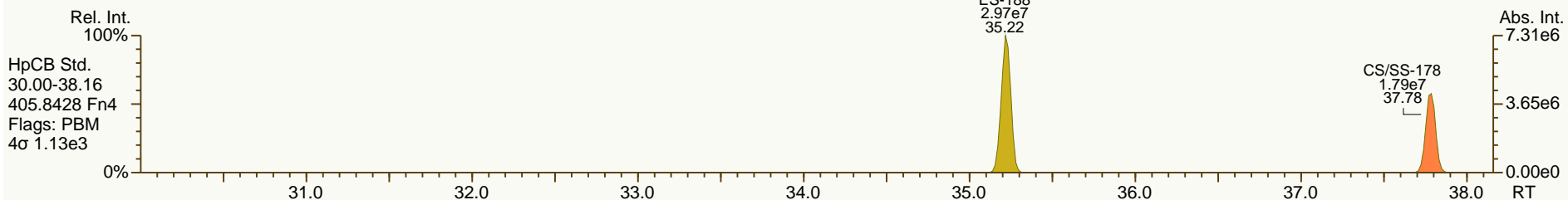
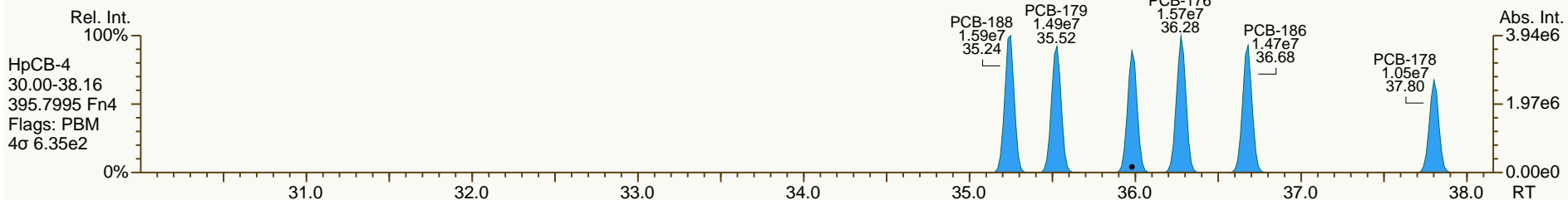
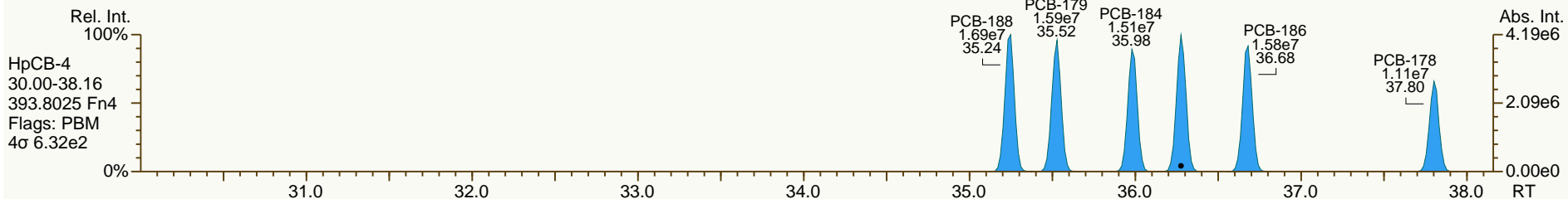
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SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

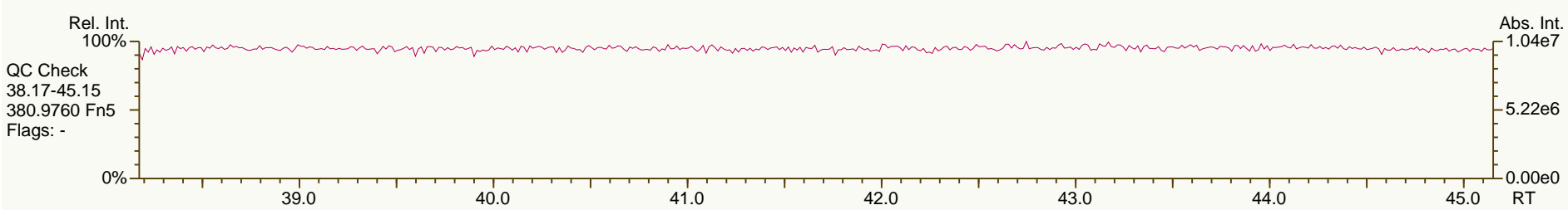
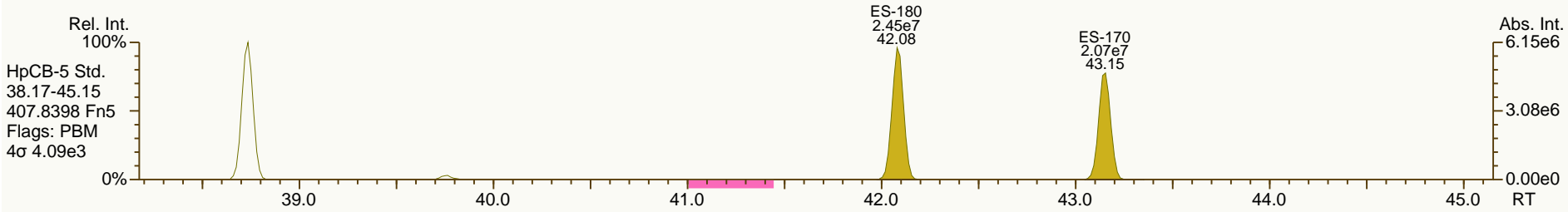
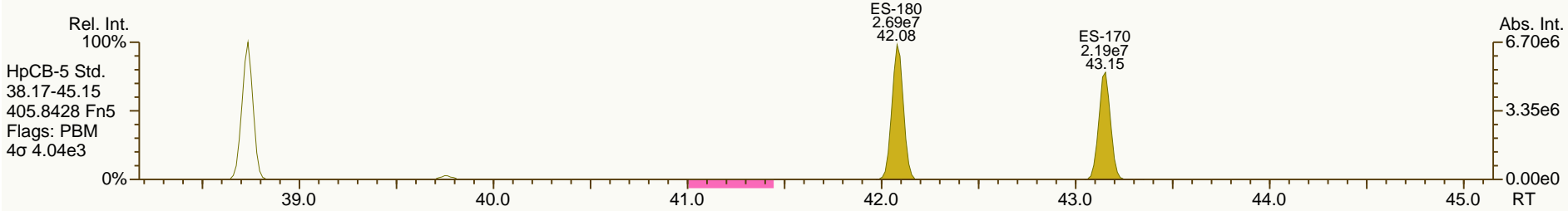
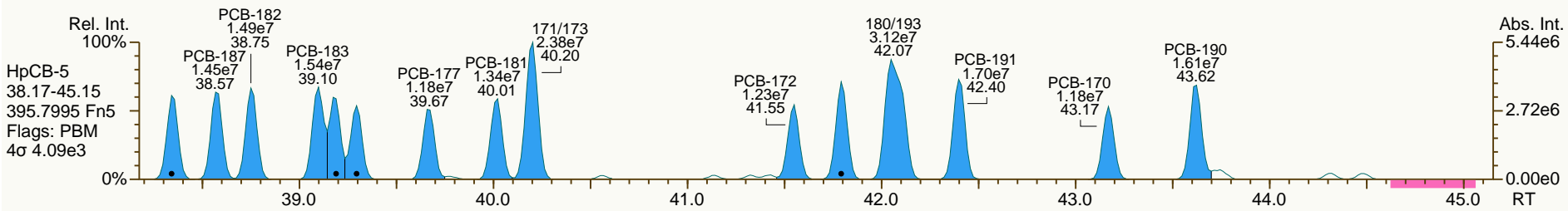
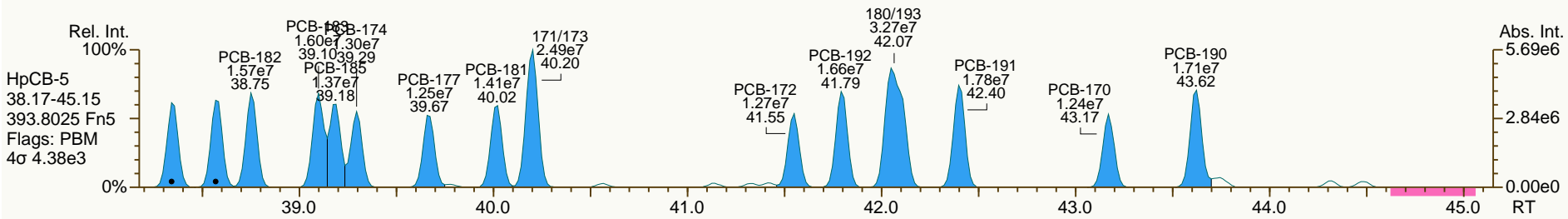
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SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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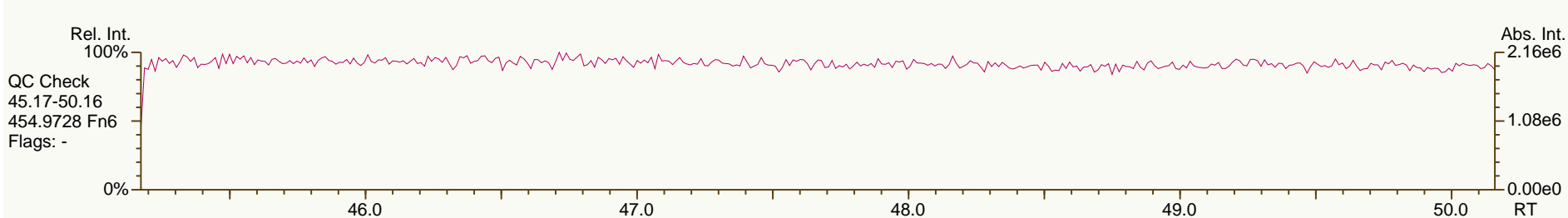
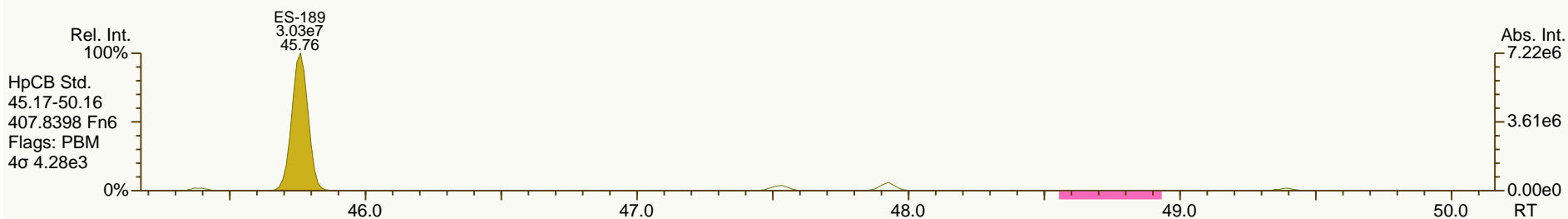
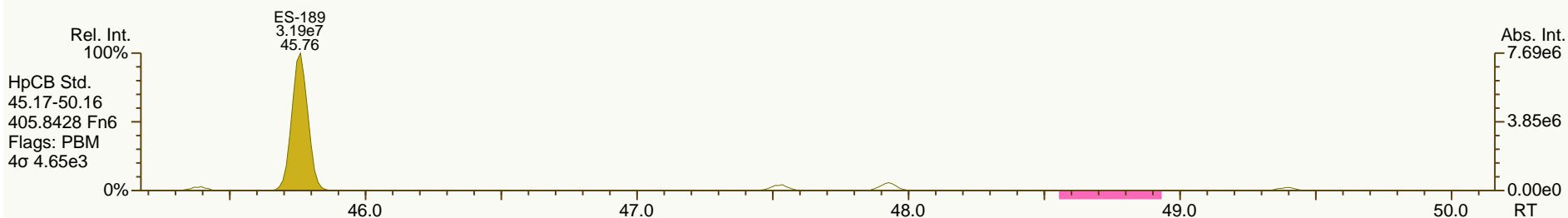
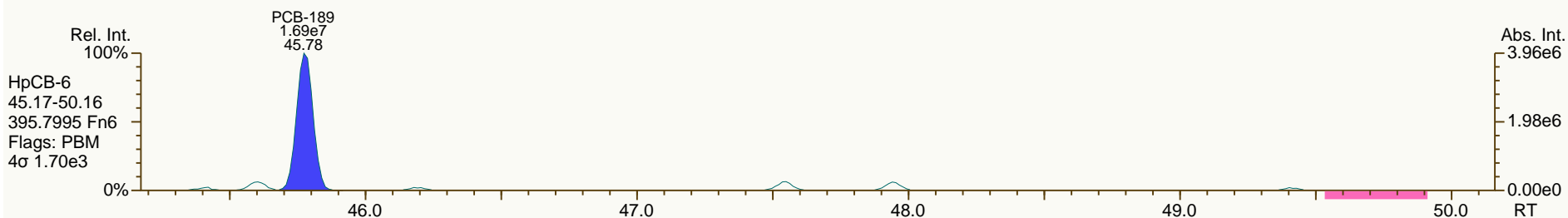
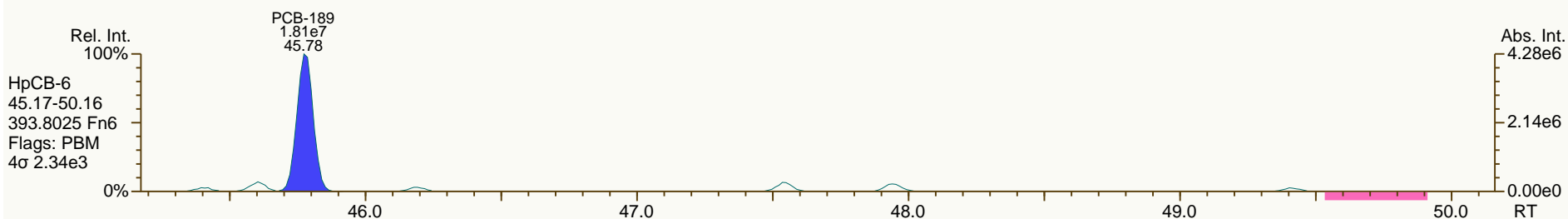
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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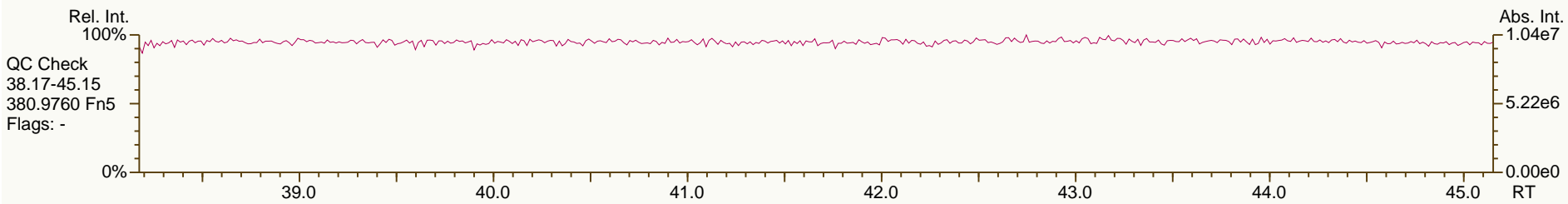
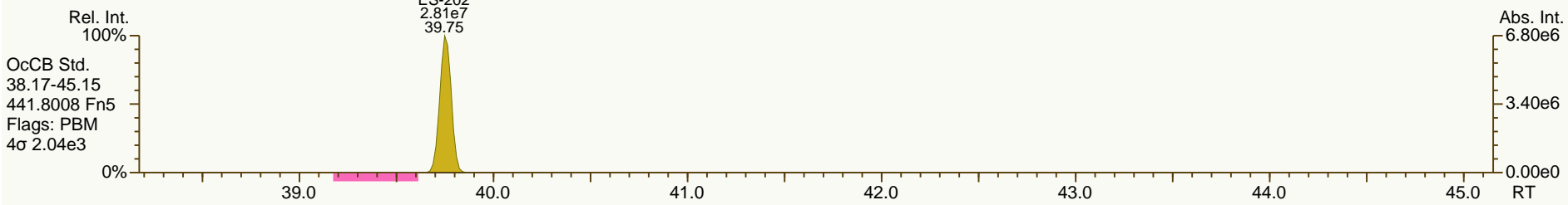
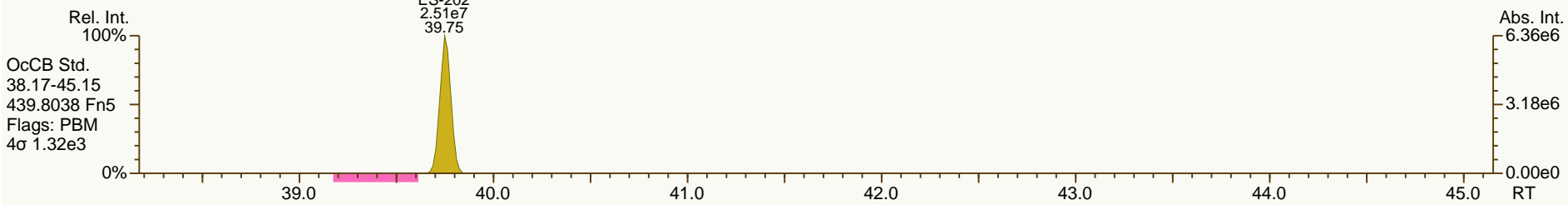
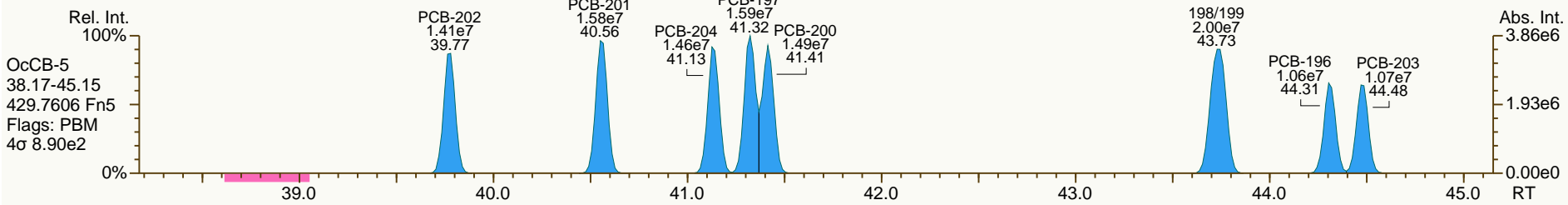
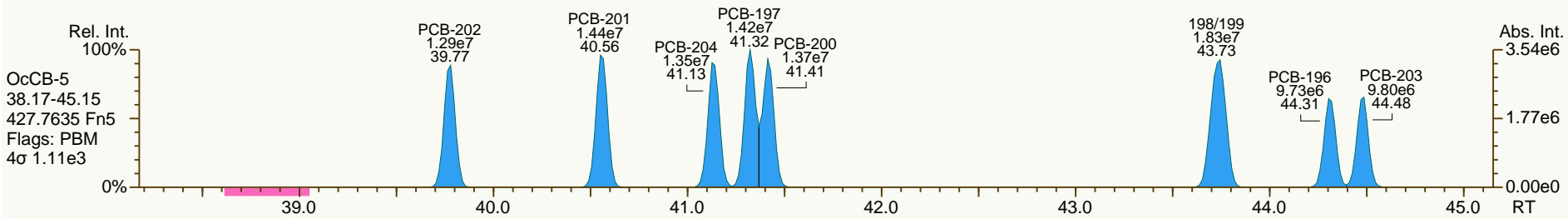
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SGS-AP ID: CS3\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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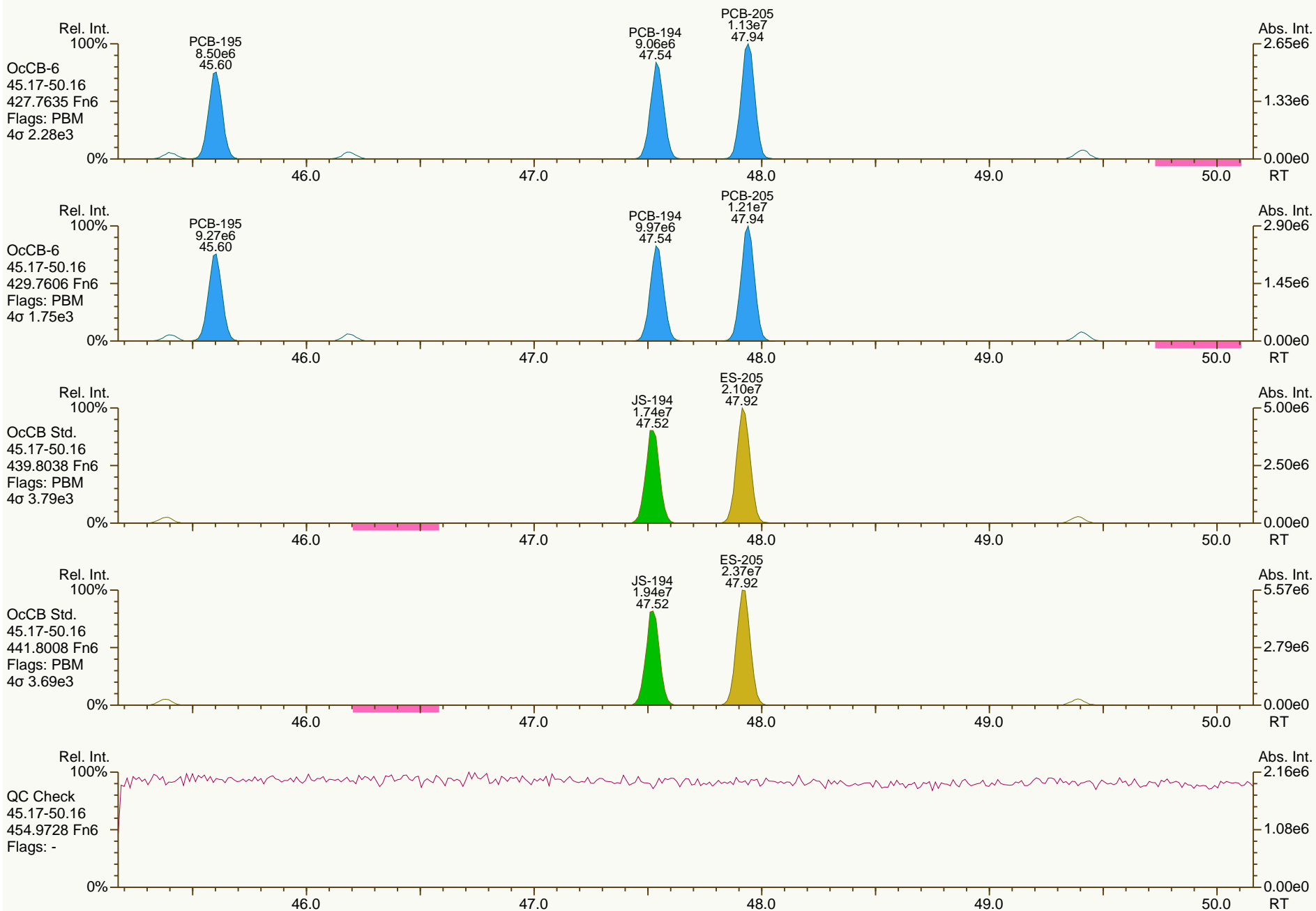
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SGS-AP ID: CS3\_140327\_PCB\_XA  
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Sample ID: SIL 13-79-3  
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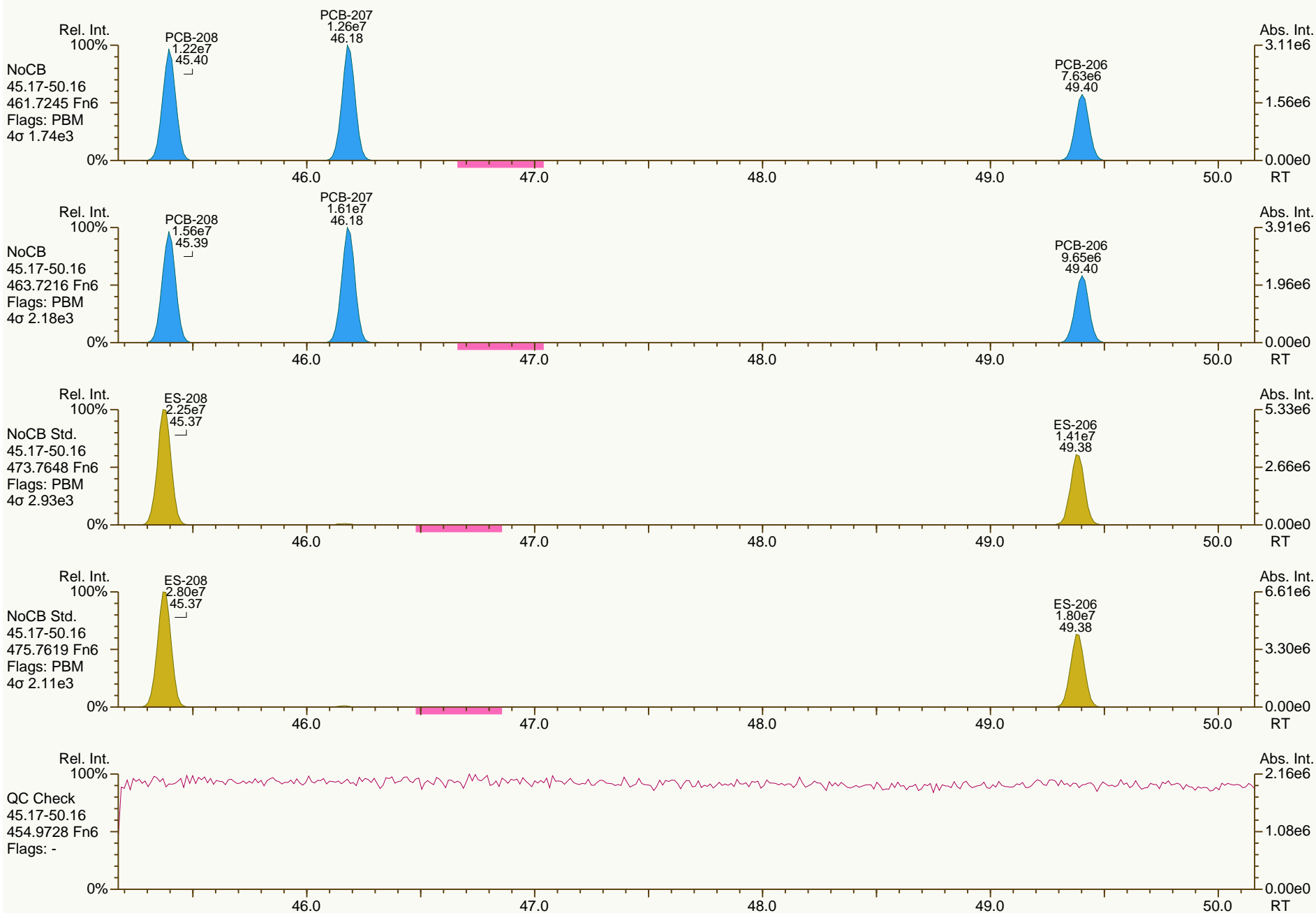
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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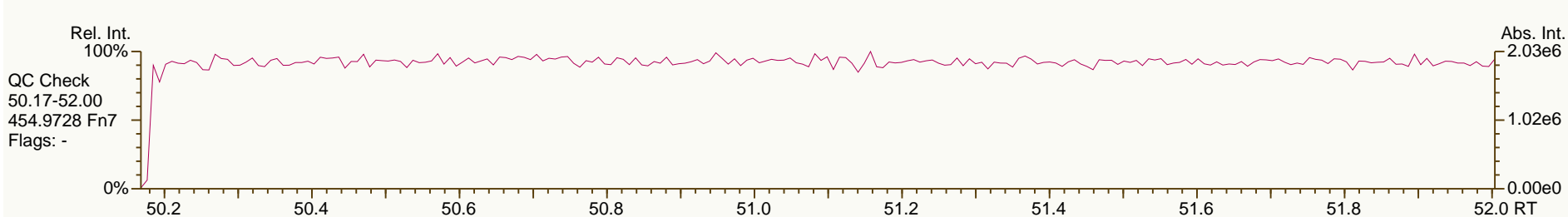
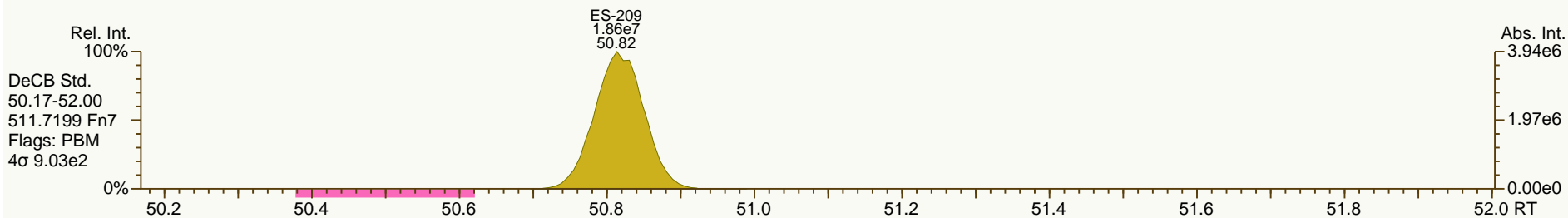
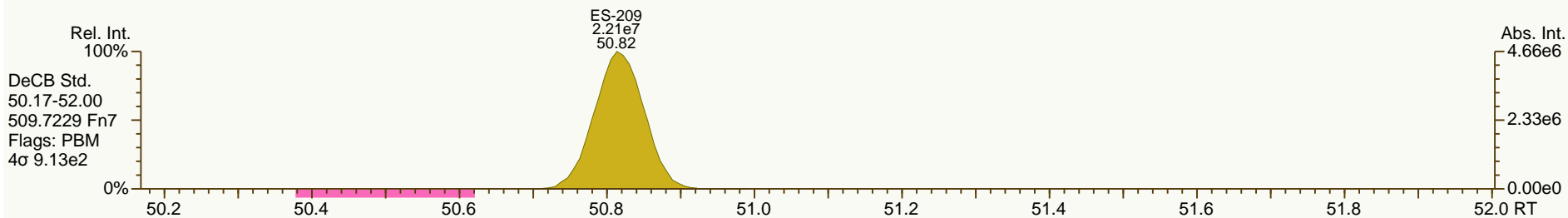
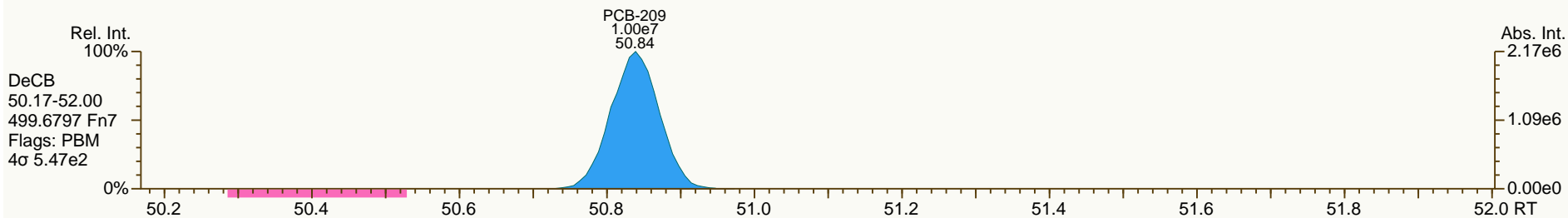
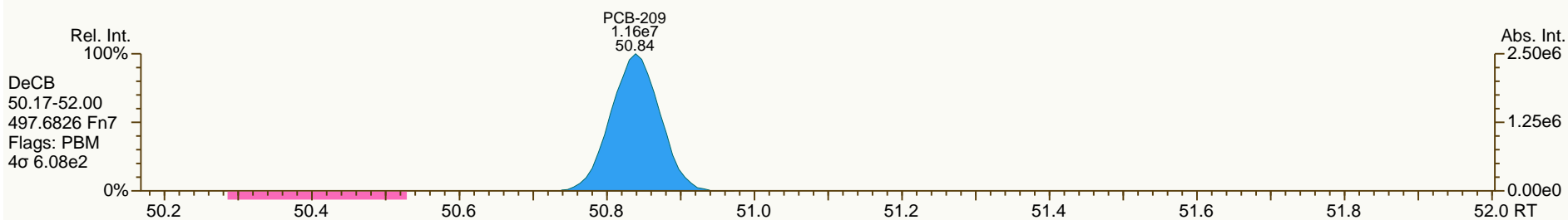
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SGS-AP ID: CS3\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

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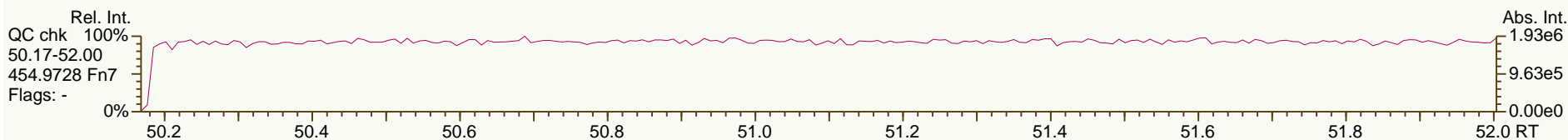
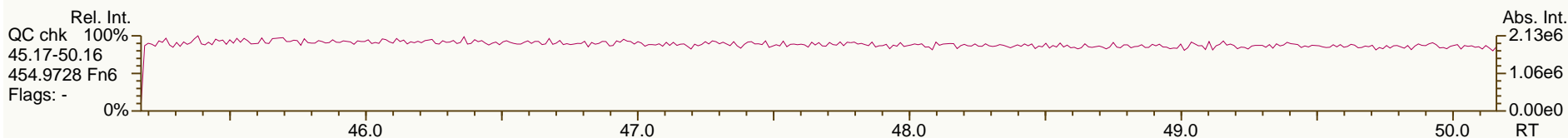
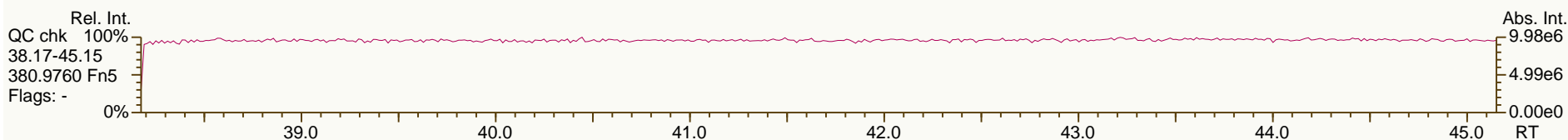
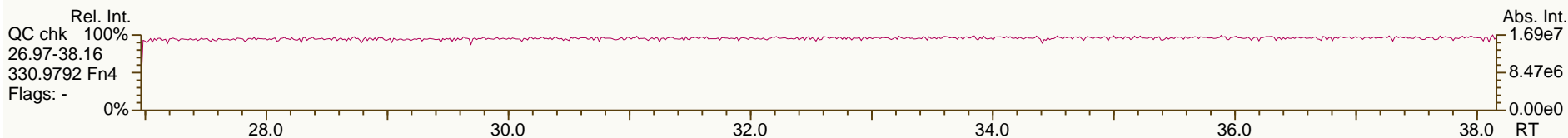
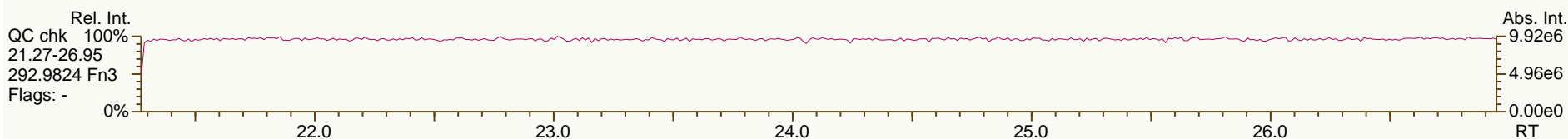
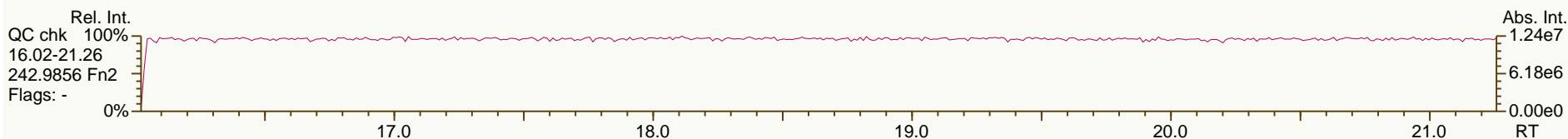
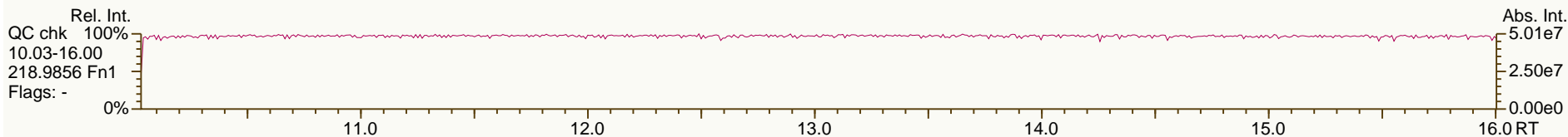




SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

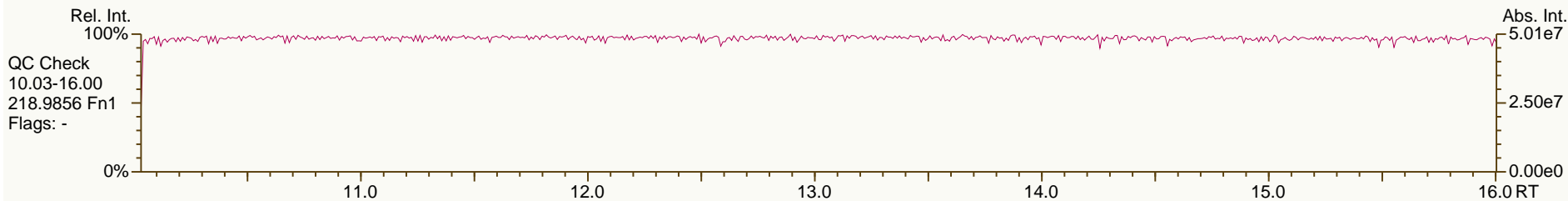
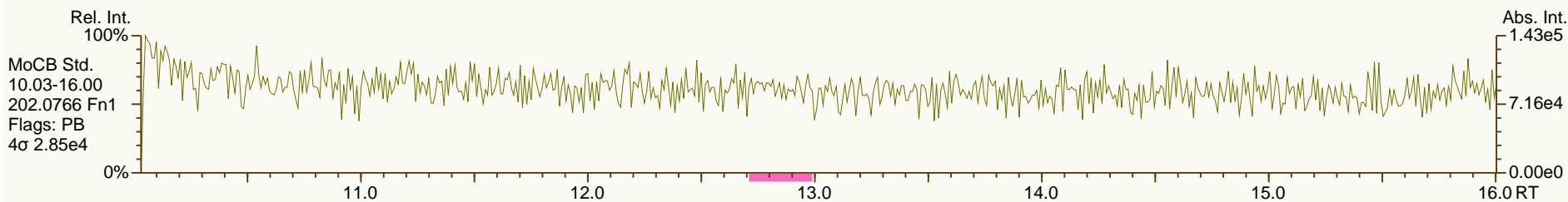
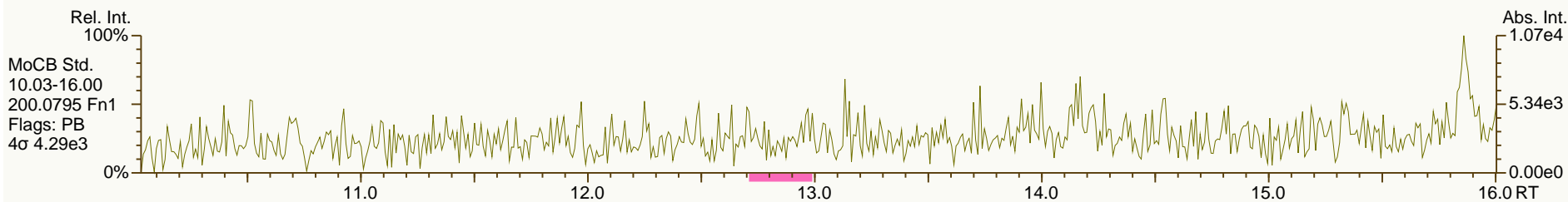
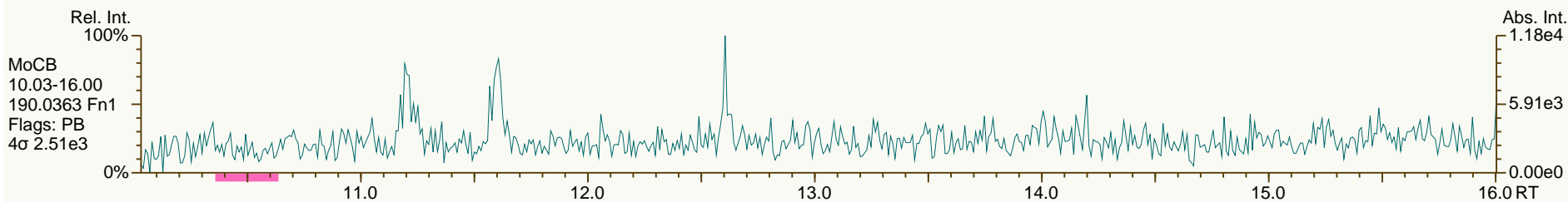
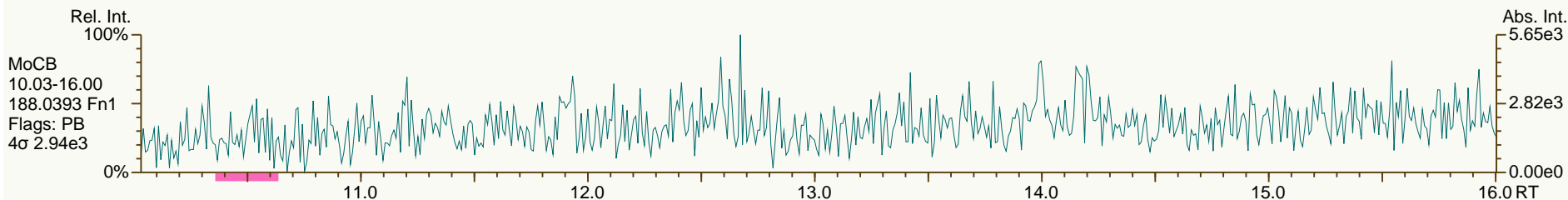
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 27-Mar-2014 12:27:58  
User: LKB Datafile: 140327X03



SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 27-Mar-2014 12:27:58  
User: LKB Datafile: 140327X03



SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

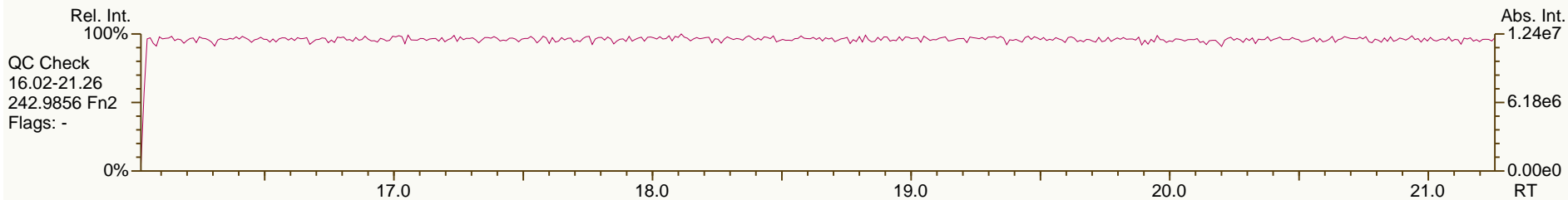
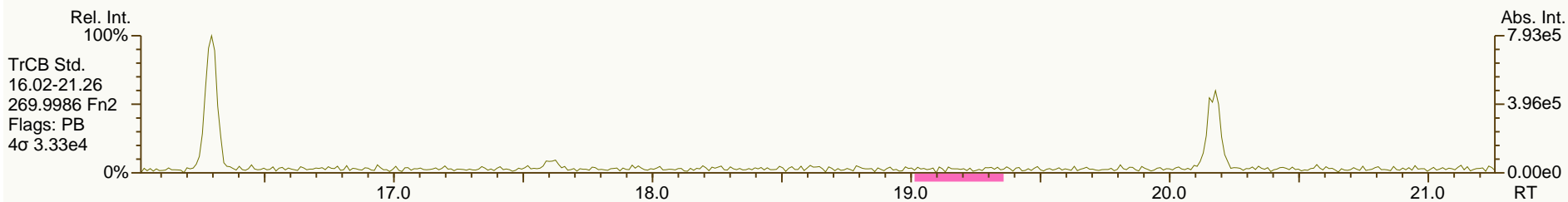
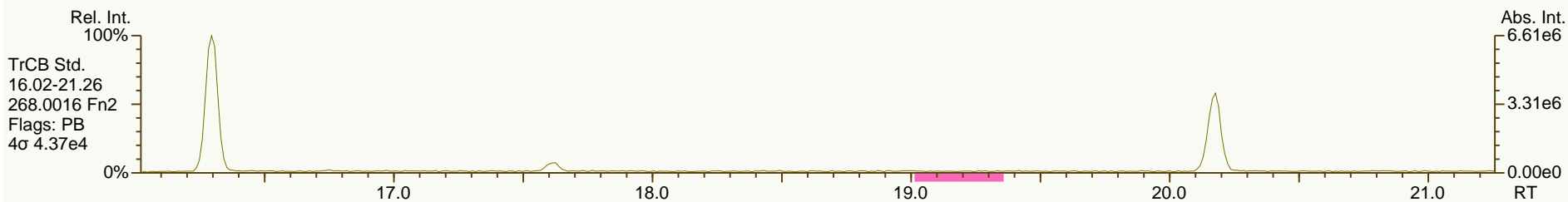
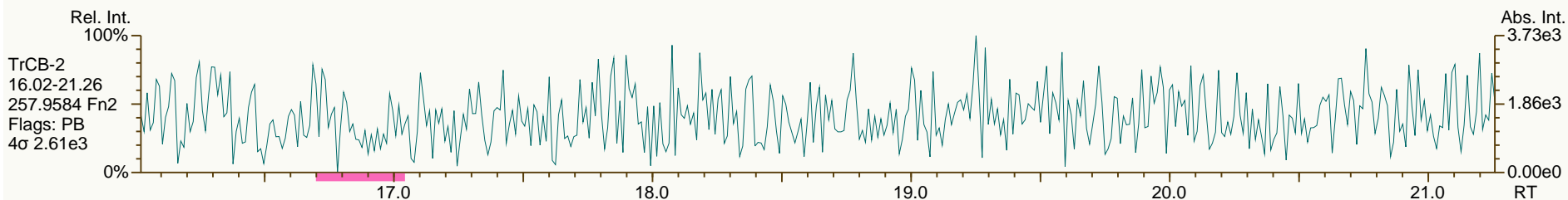
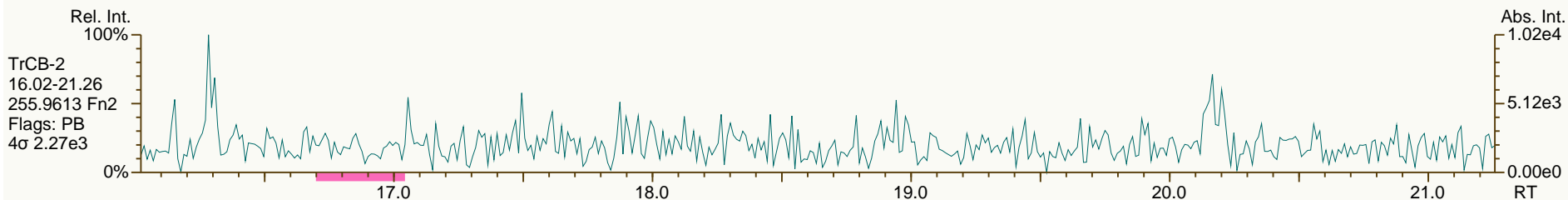
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User: LKB Datafile: 140327X03



SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

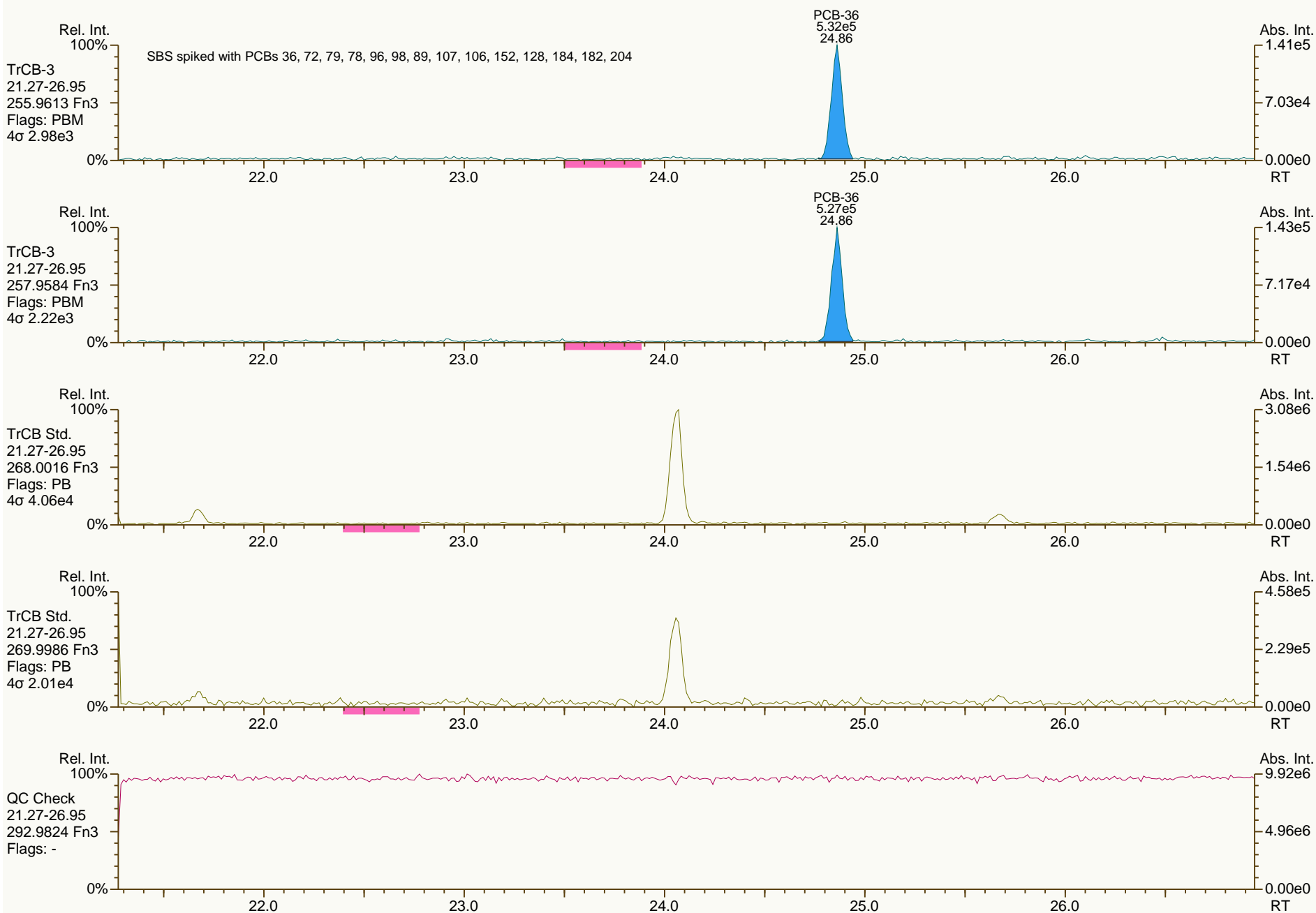
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User: LKB Datafile: 140327X03



SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

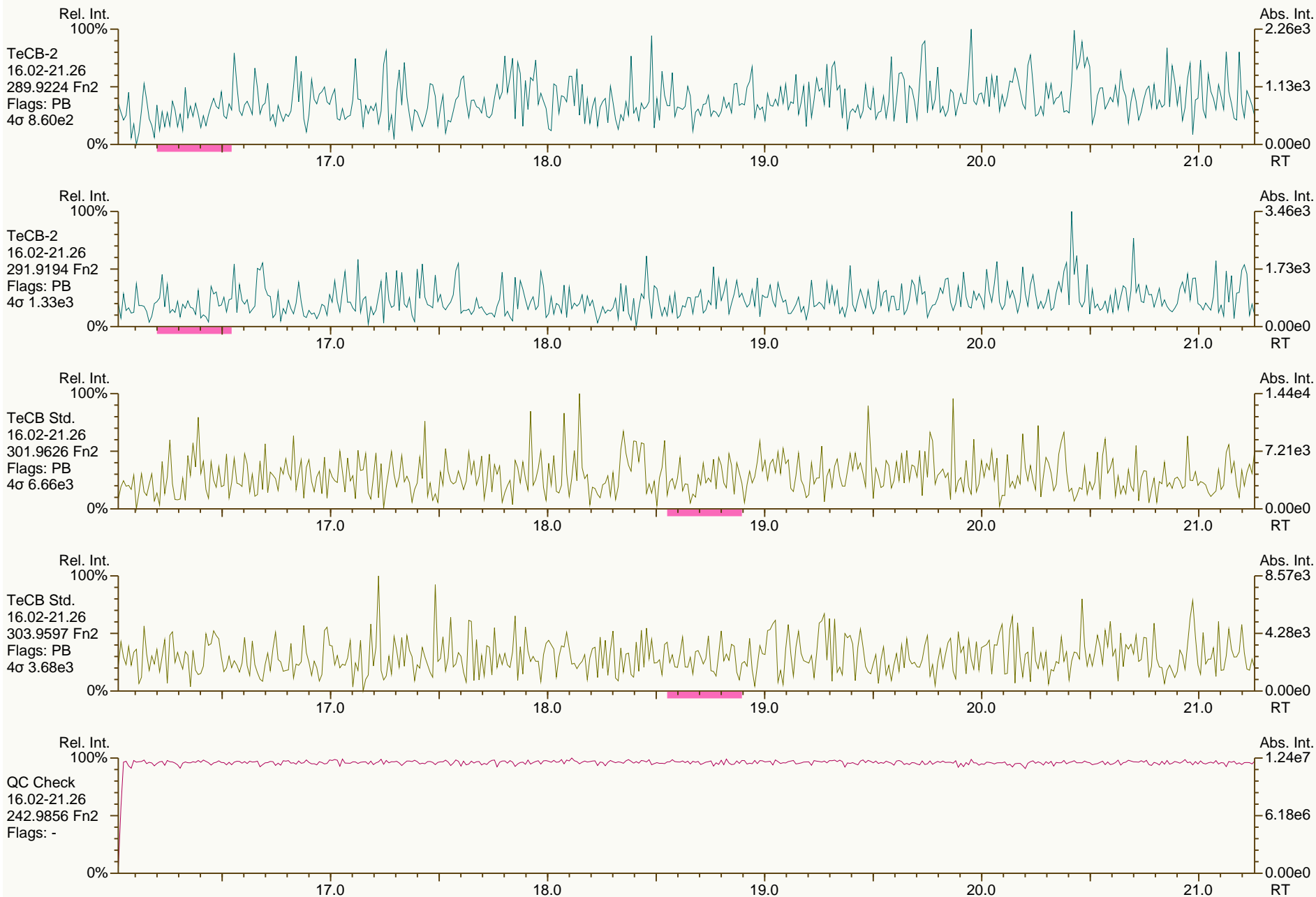
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User: LKB Datafile: 140327X03



SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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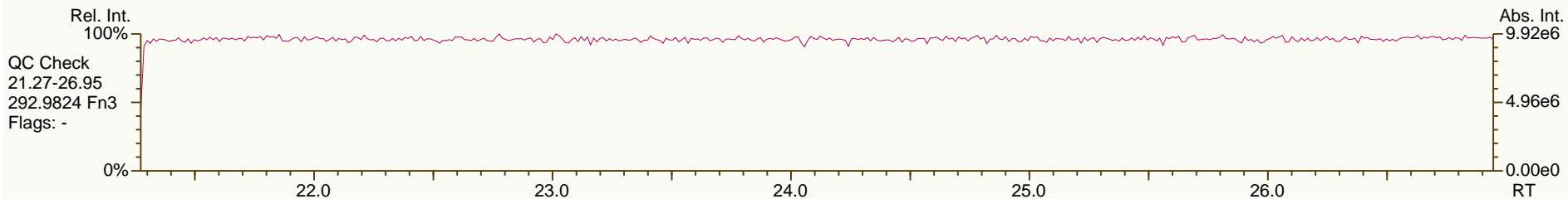
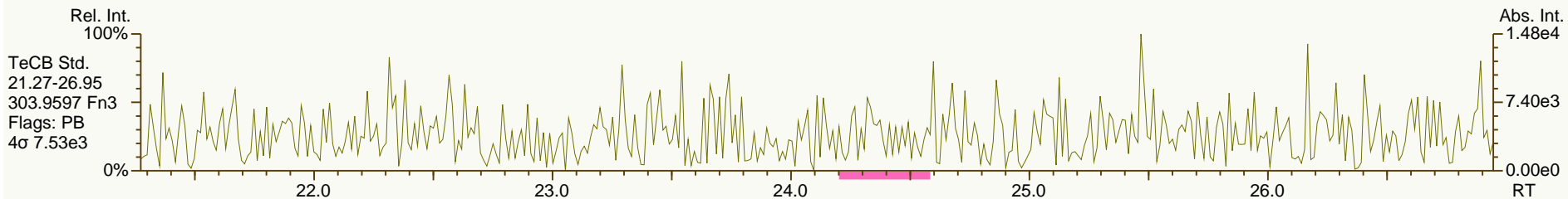
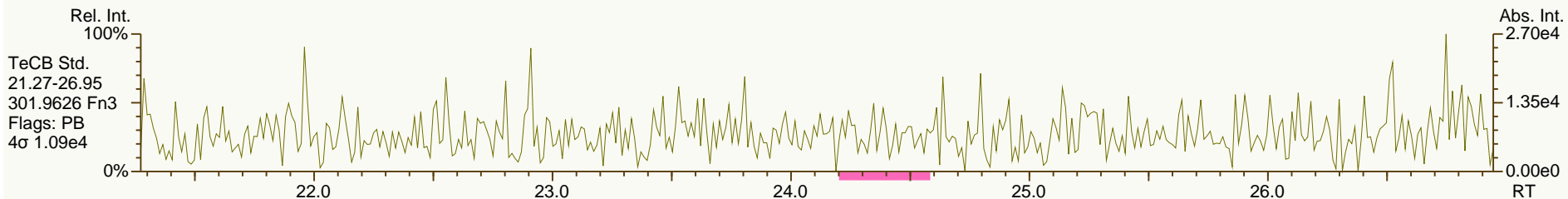
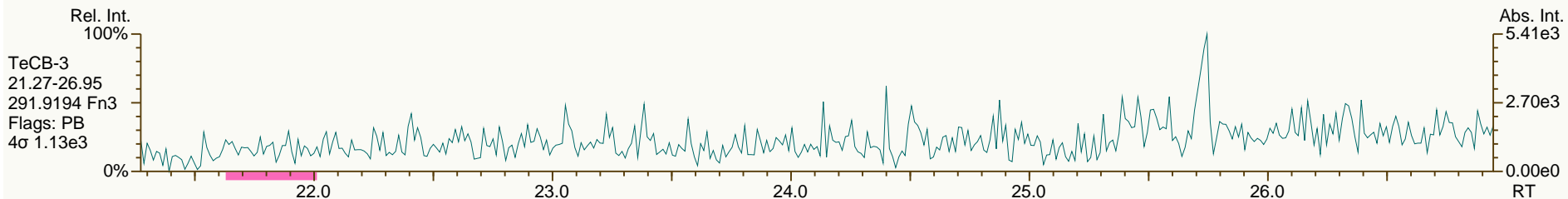
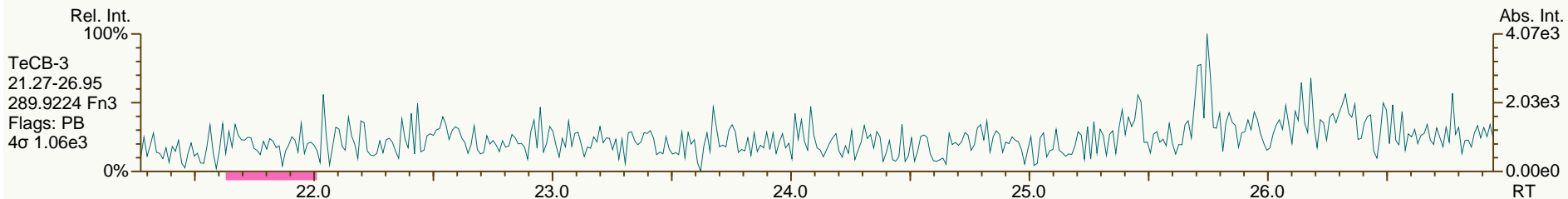
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SGS-AP ID: SBS\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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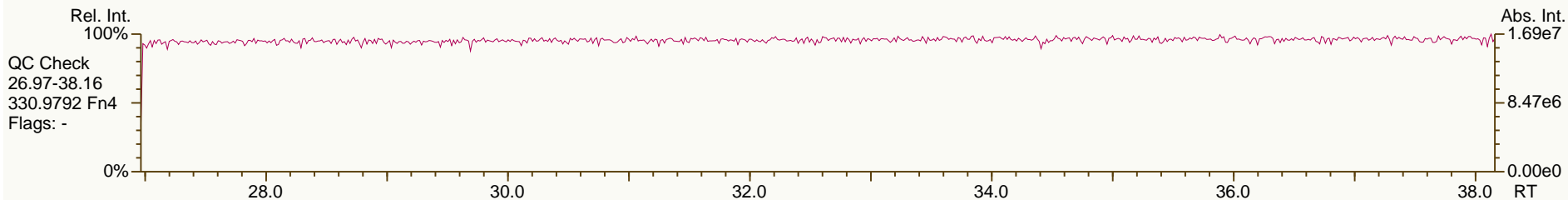
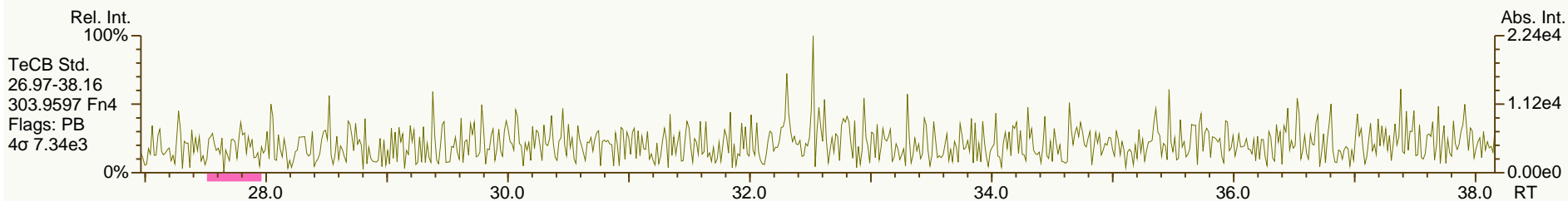
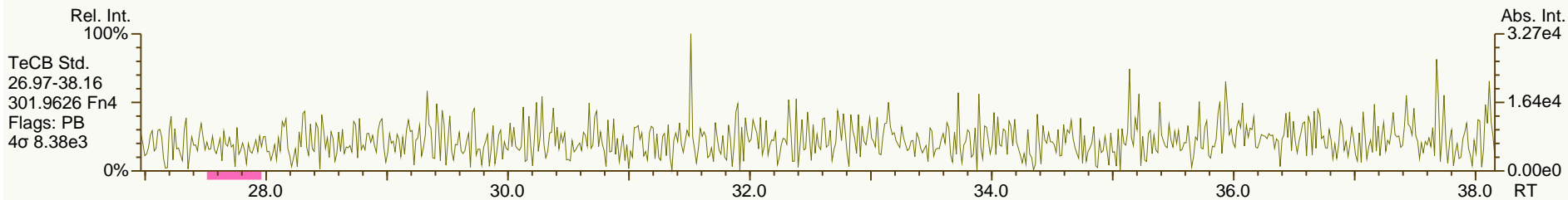
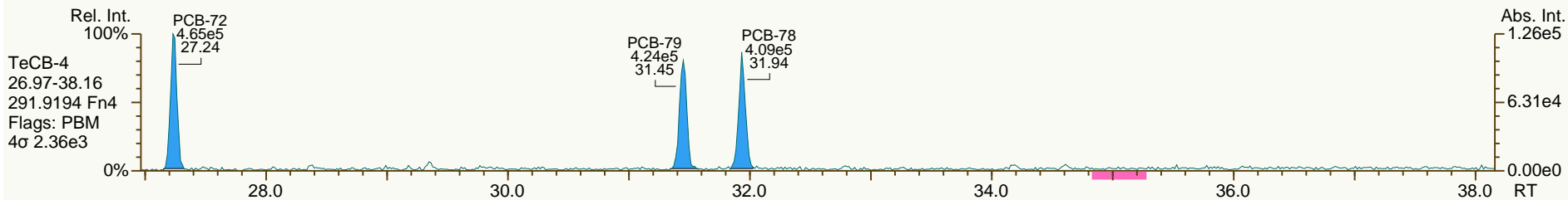
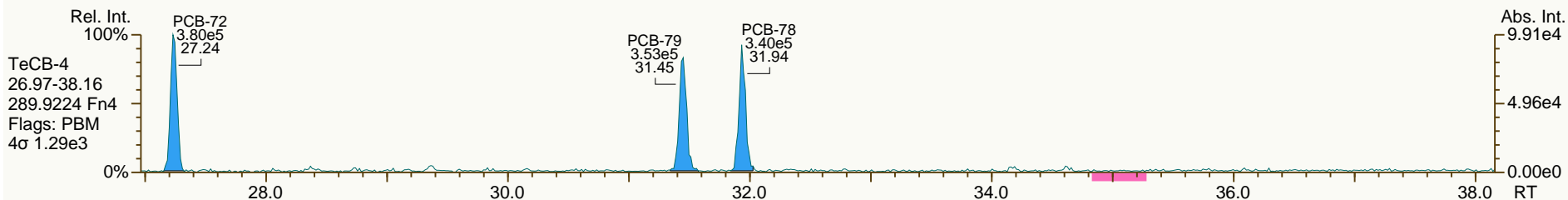




SGS-AP ID: SBS\_140327\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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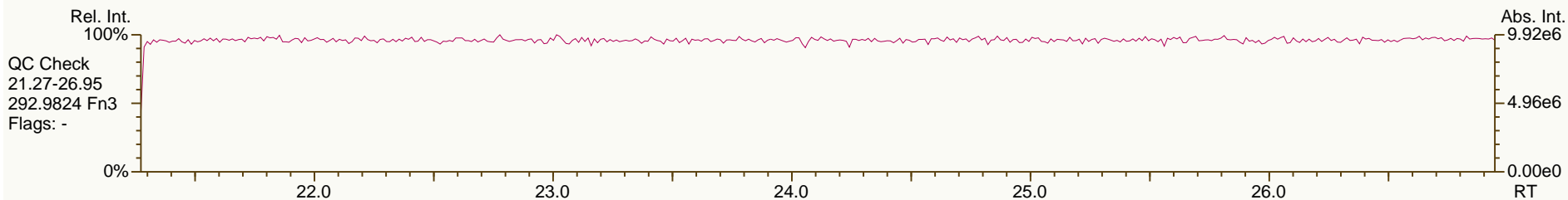
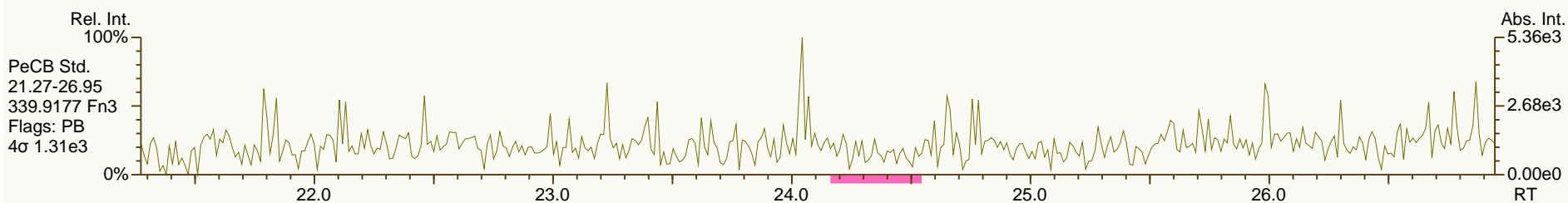
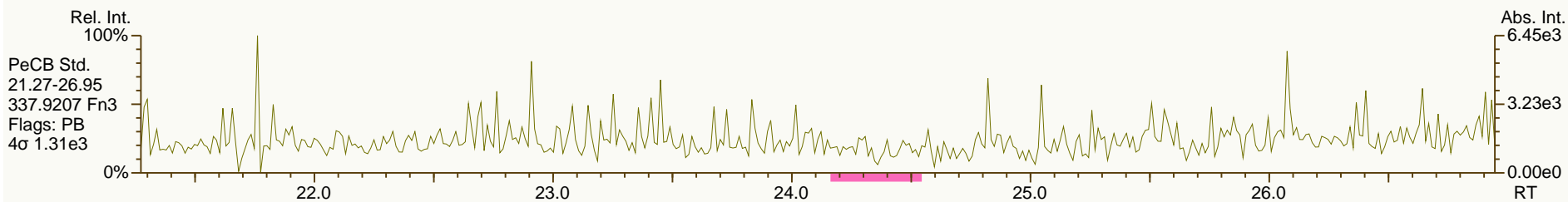
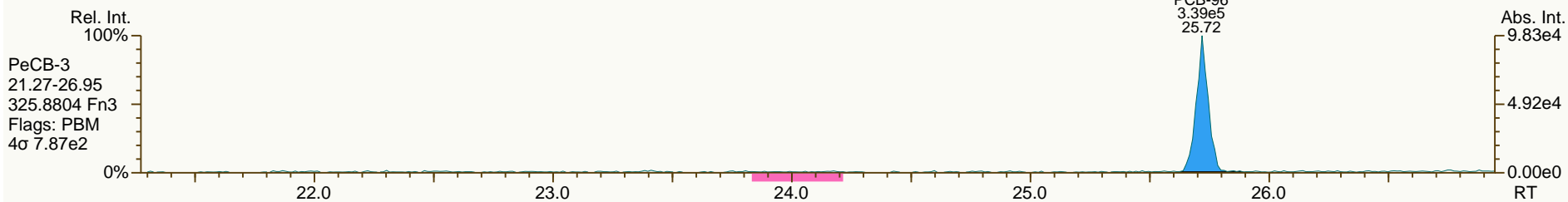
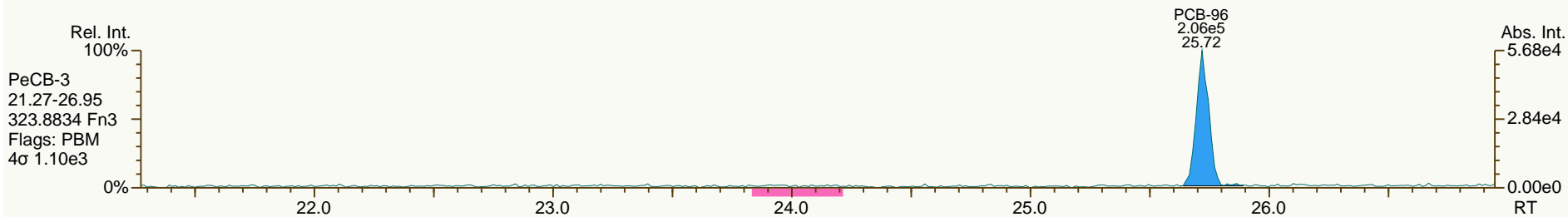
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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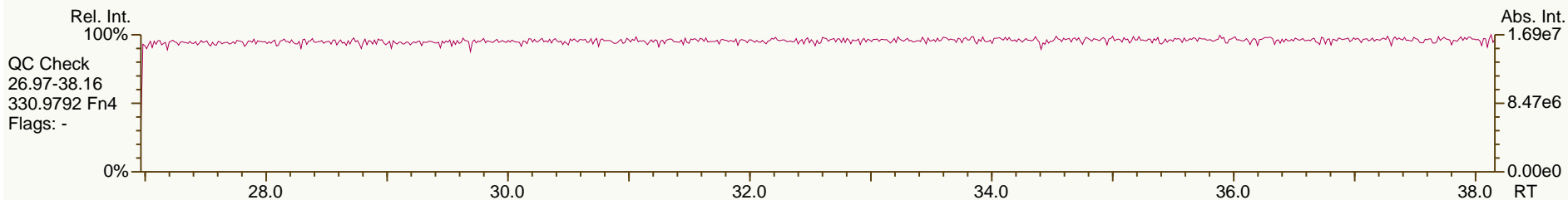
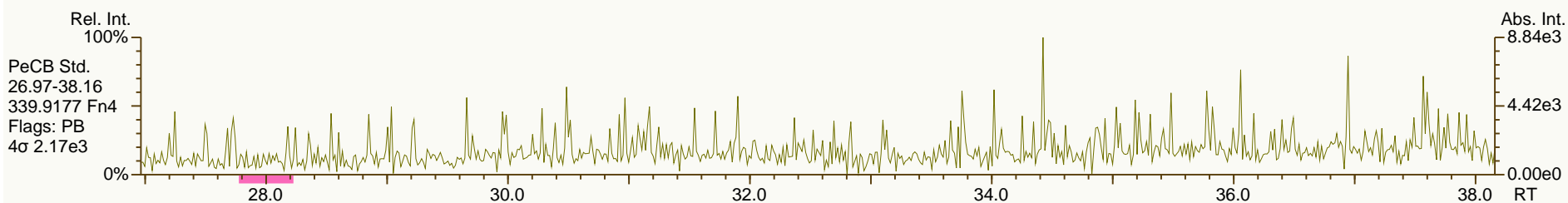
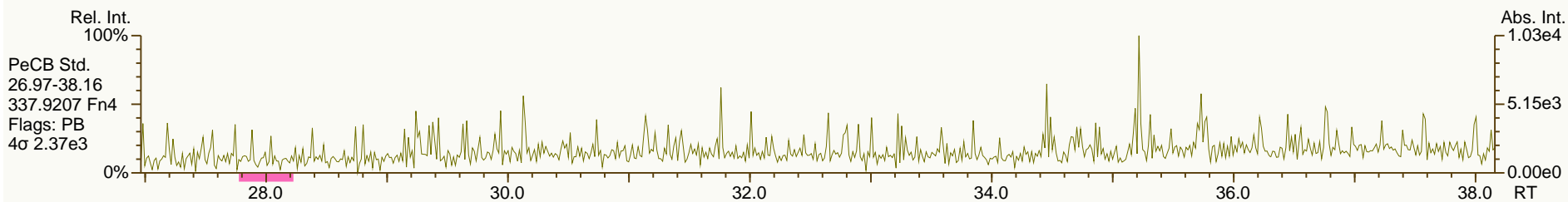
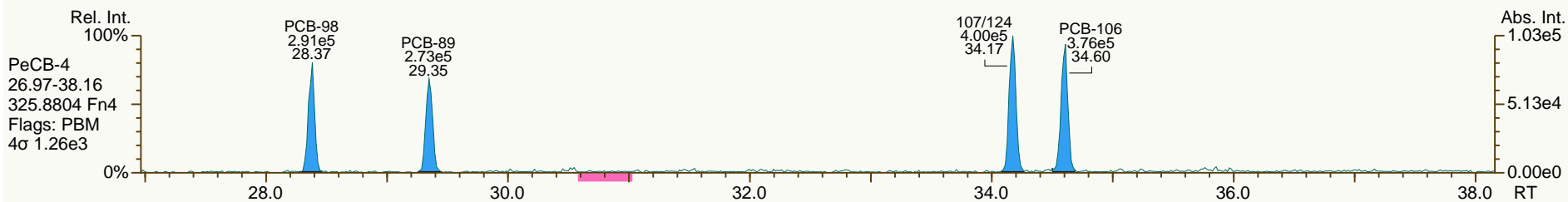
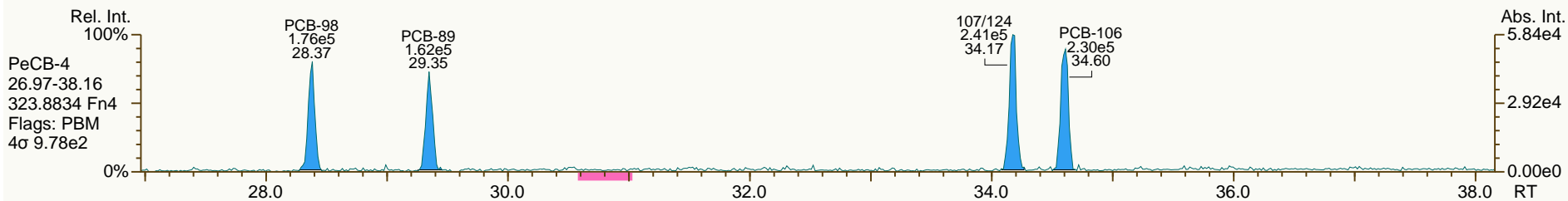
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

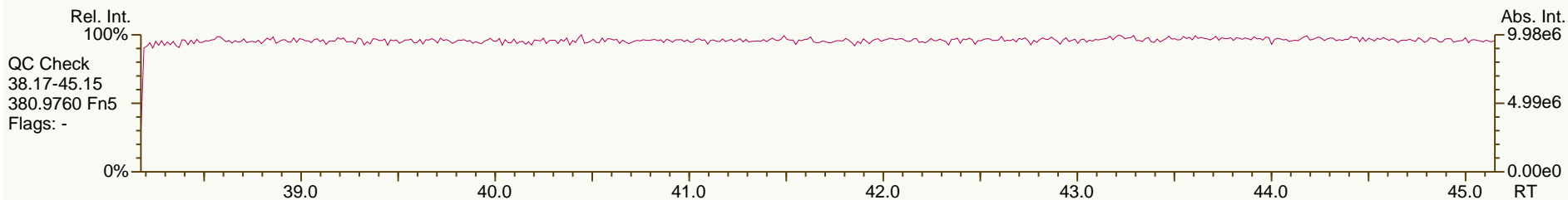
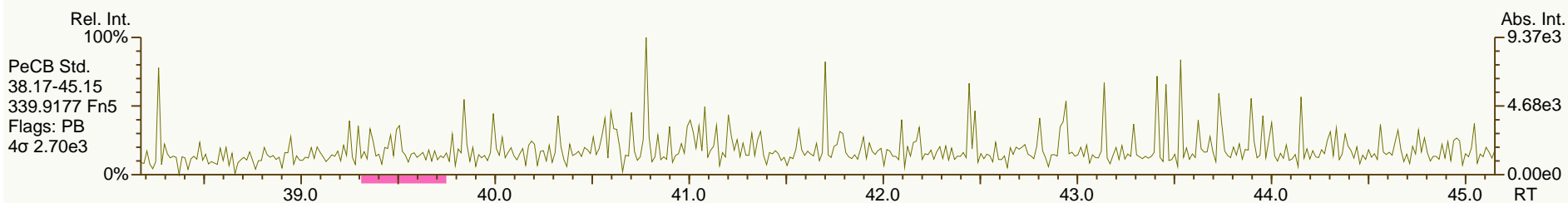
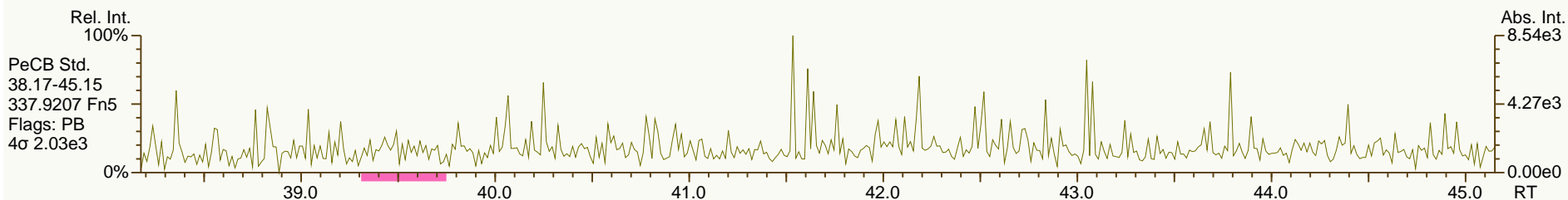
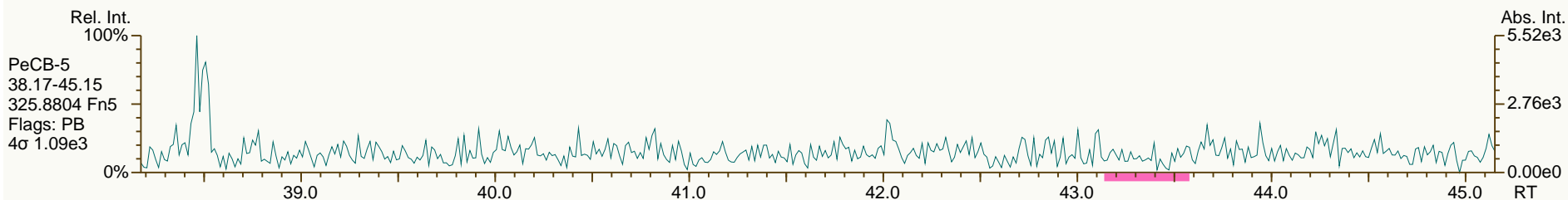
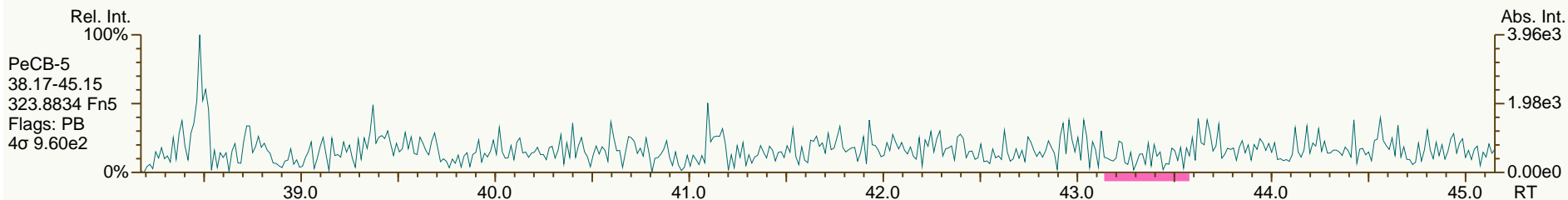
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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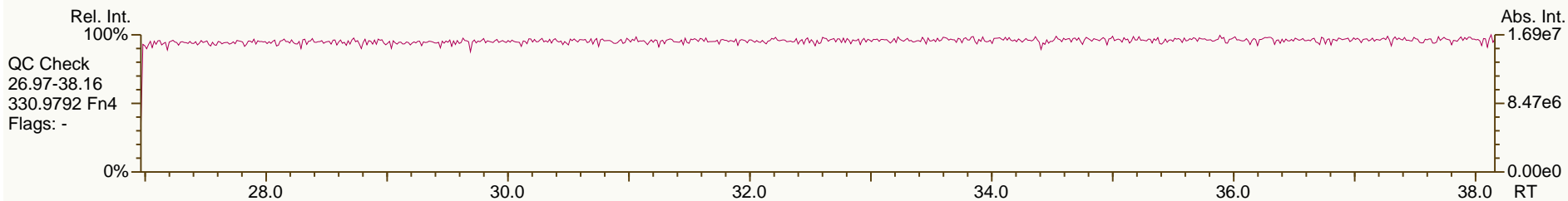
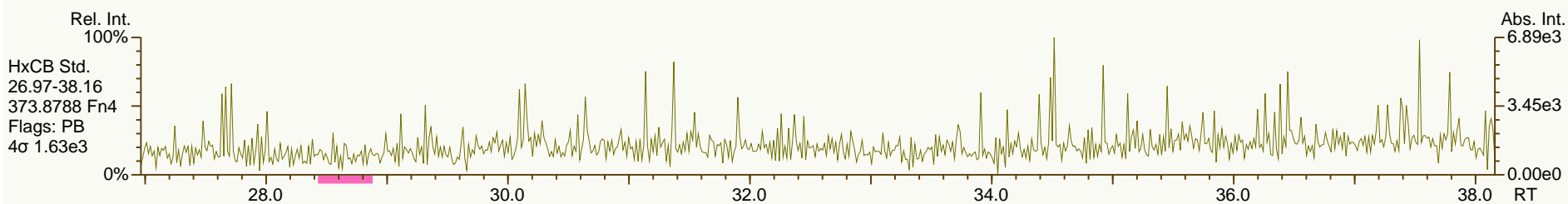
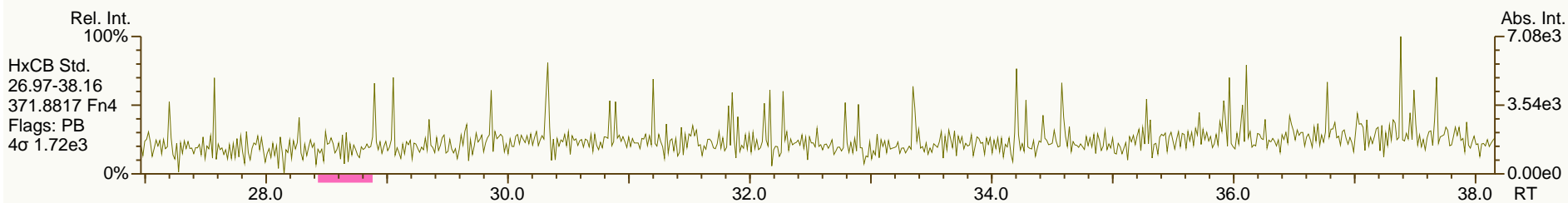
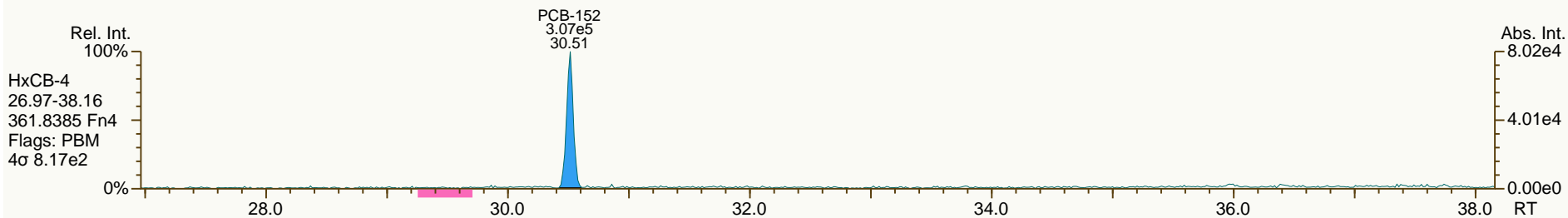
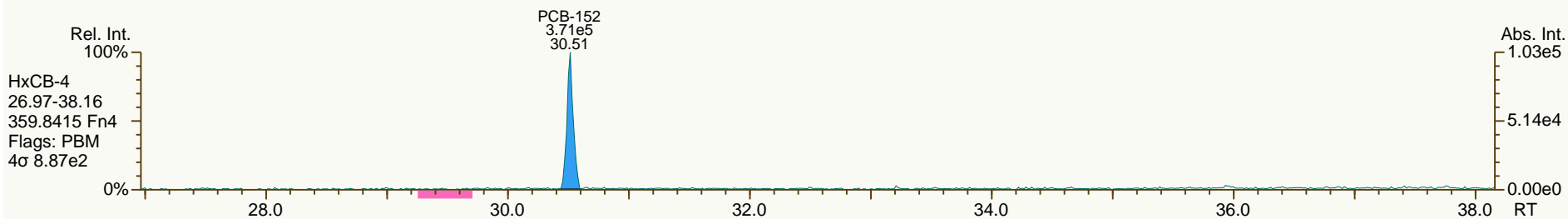
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SGS-AP ID: SBS\_140327\_PCB\_XA  
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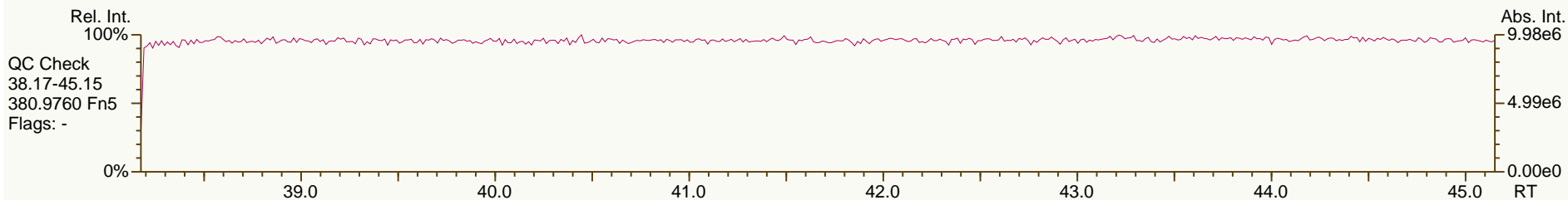
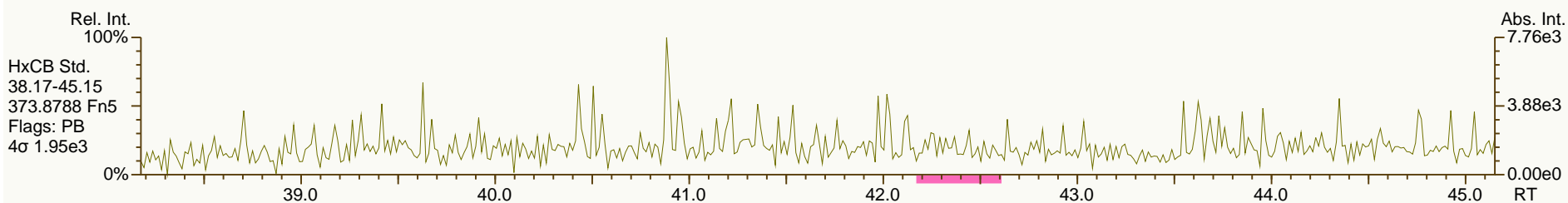
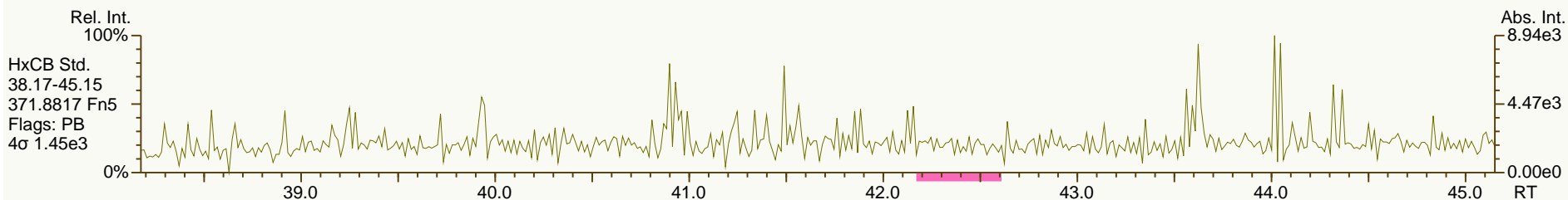
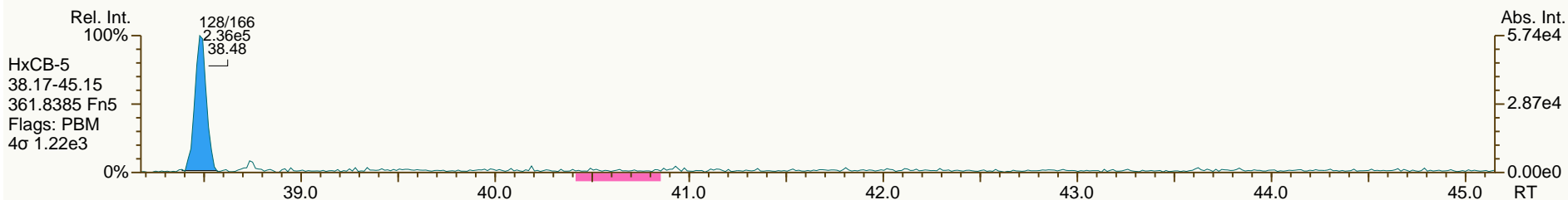
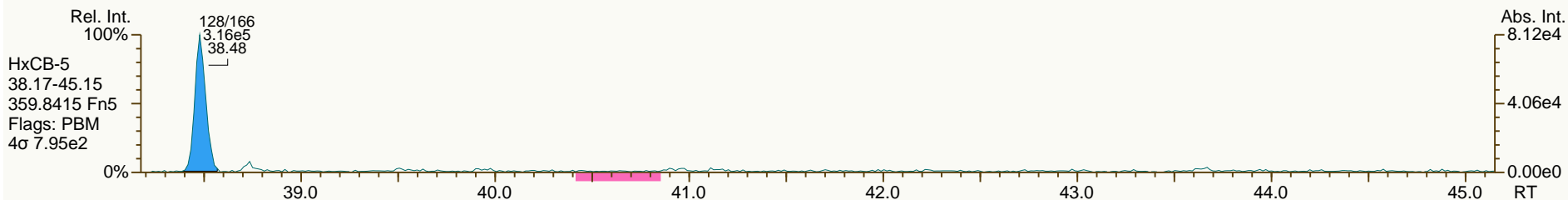
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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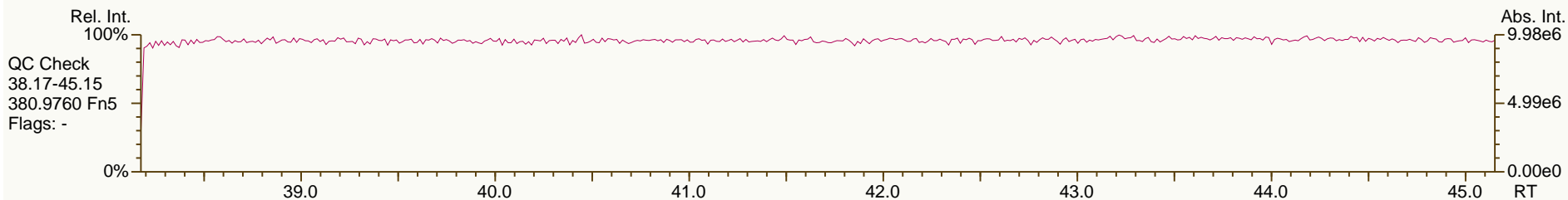
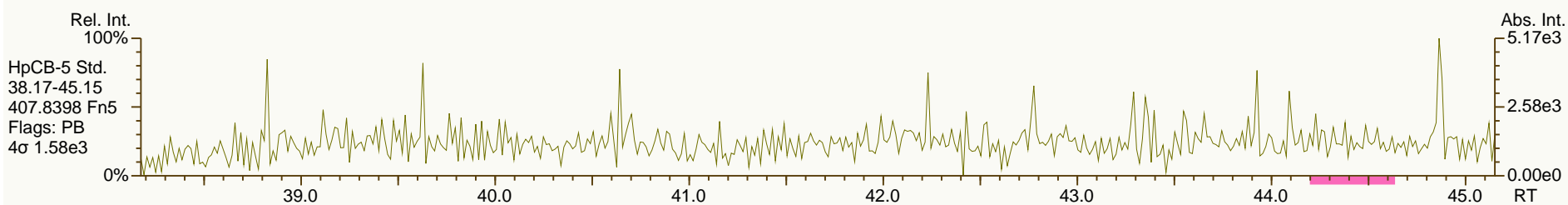
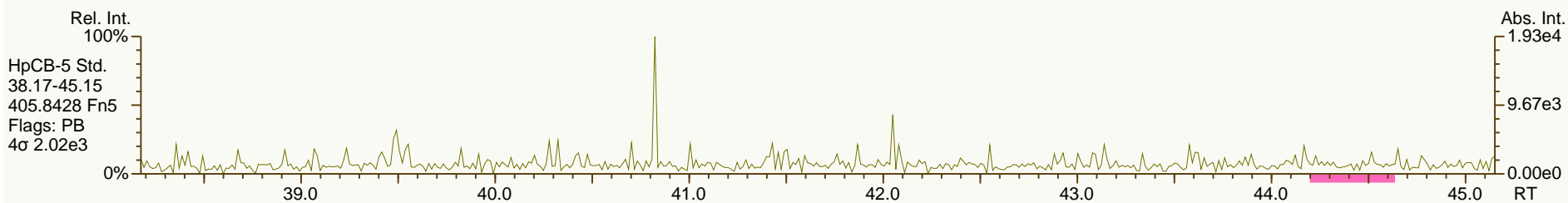
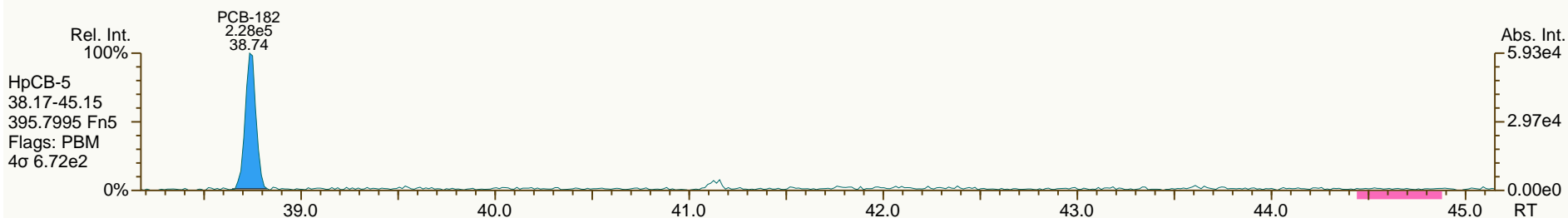
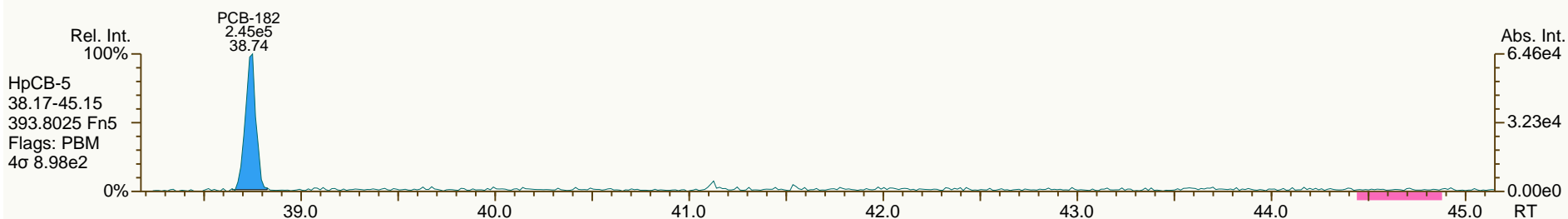
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Instr: AutoSpec-Premier MM7

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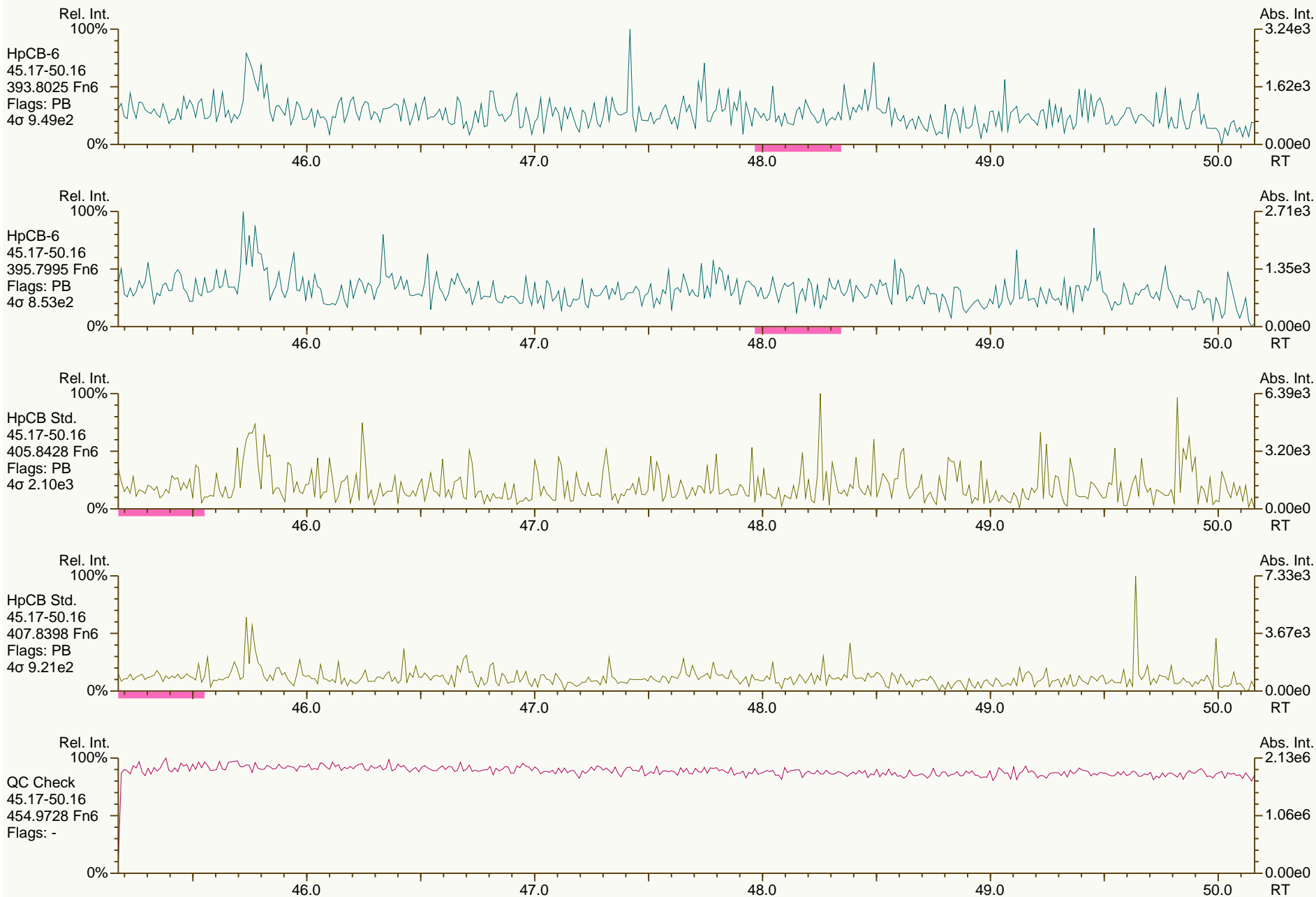




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Instr: AutoSpec-Premier MM7

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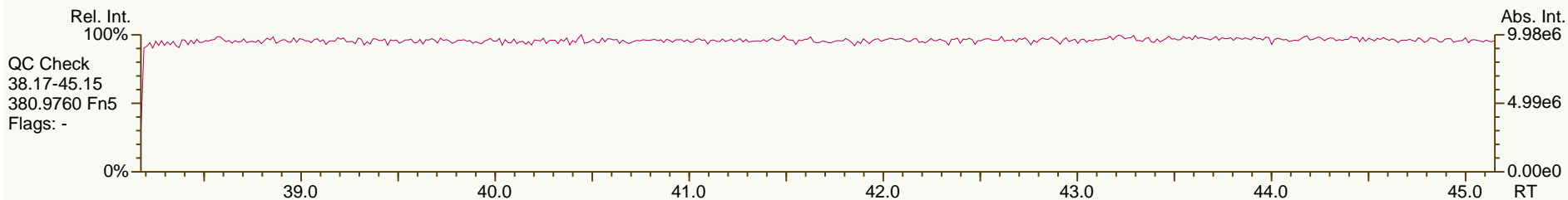
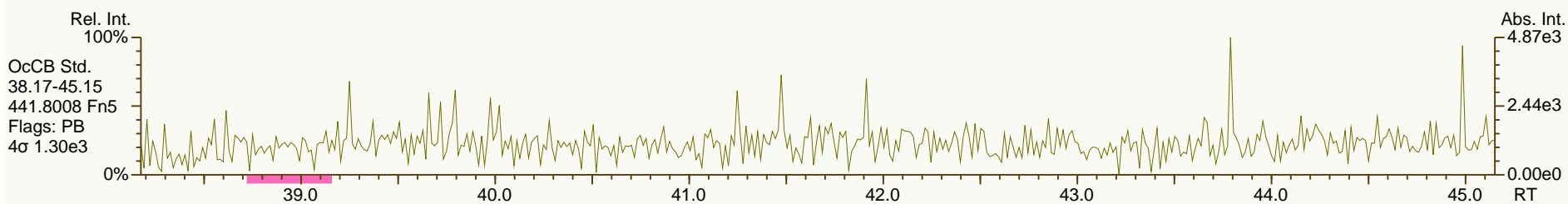
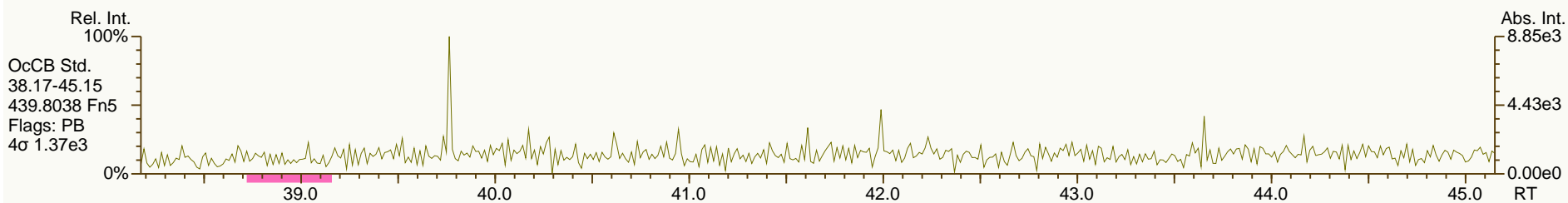
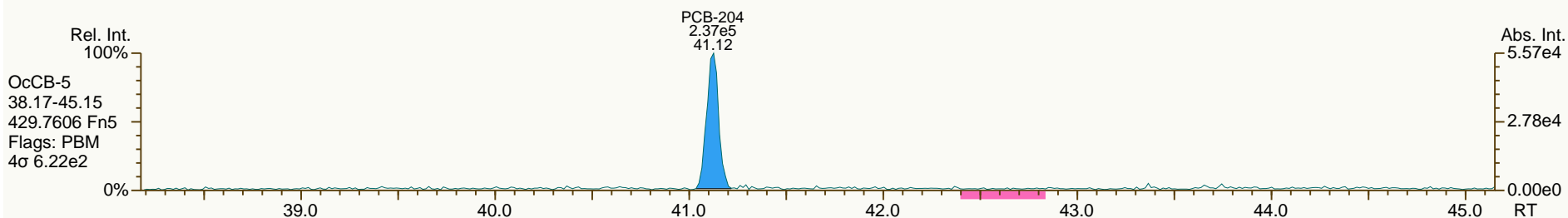
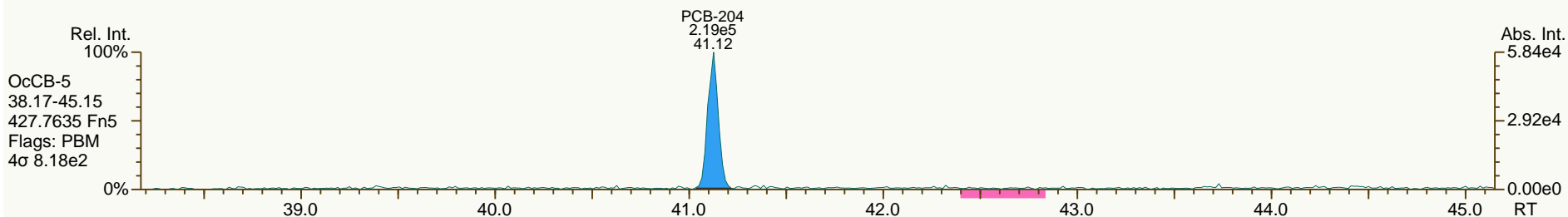
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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SGS-AP ID: SBS\_140327\_PCB\_XA  
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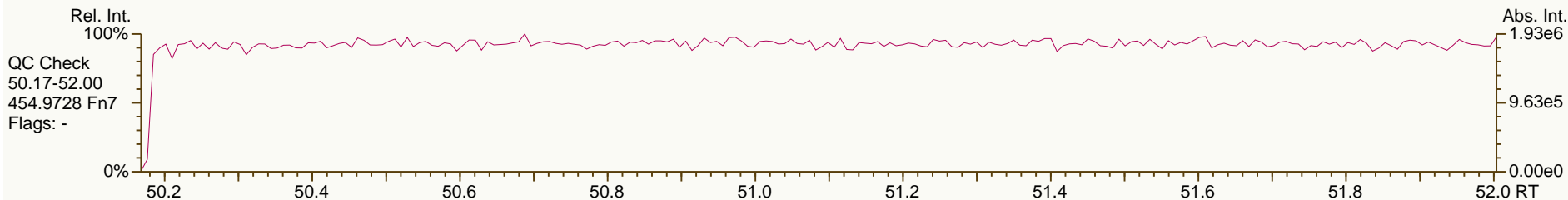
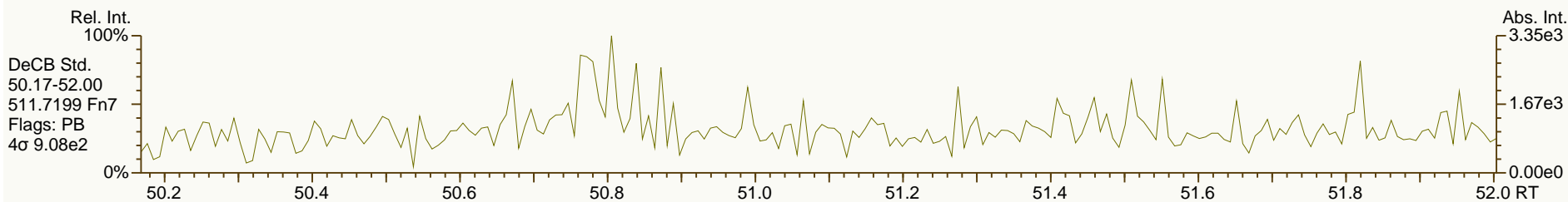
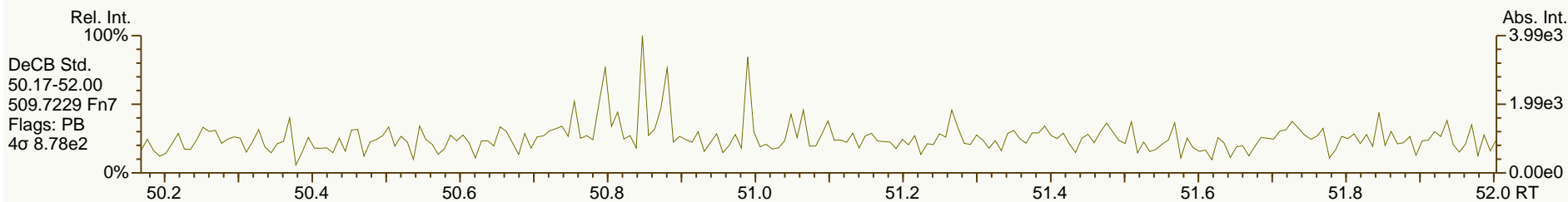
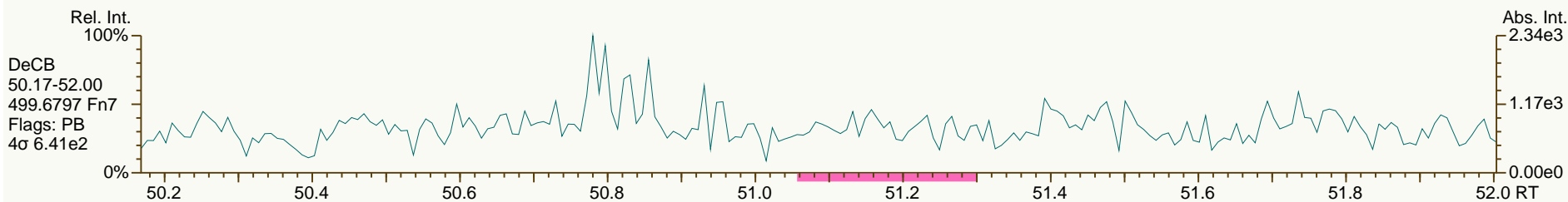
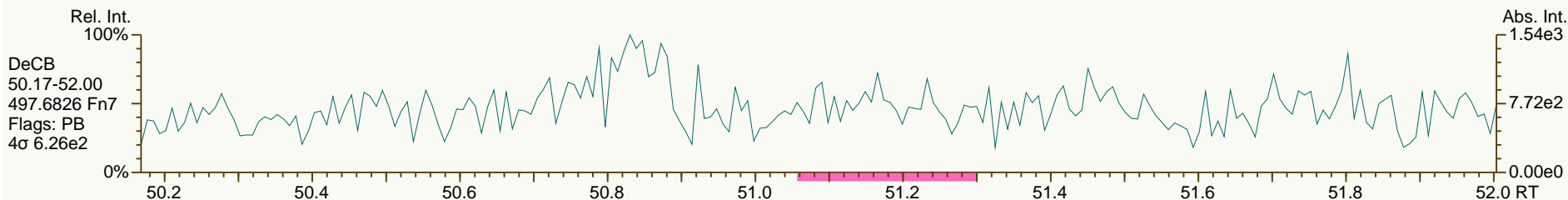
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SGS-AP ID: SBS\_140327\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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## Experiment Calibration Report

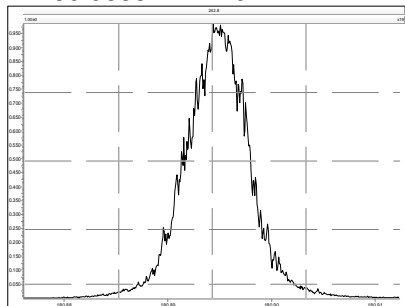
## MassLynx 4.1 SCN 881

Page 1 of 1

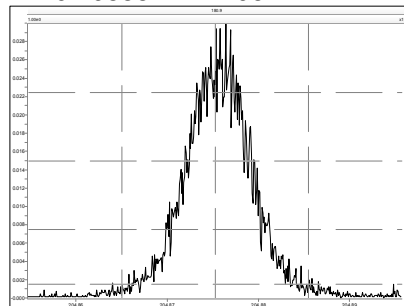
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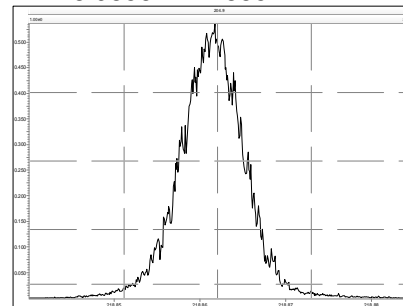
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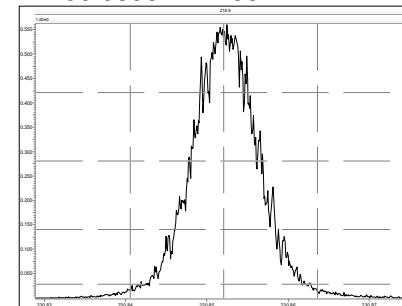
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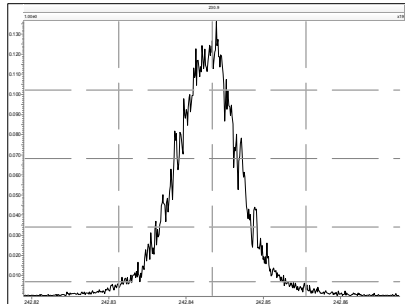
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M 230.9856 R 11961



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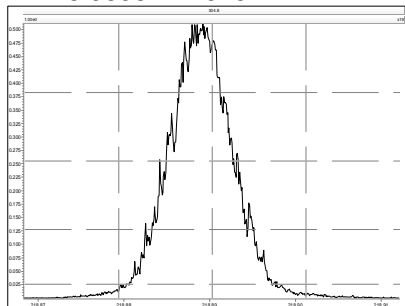
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

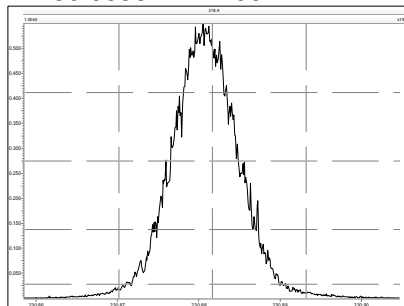
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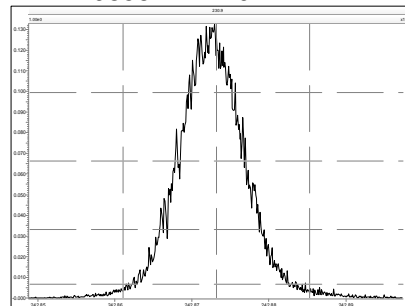
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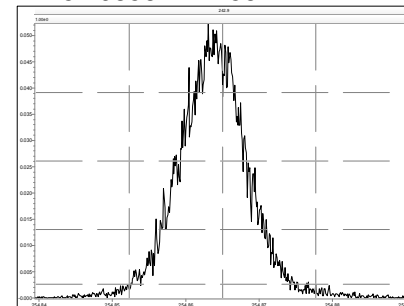
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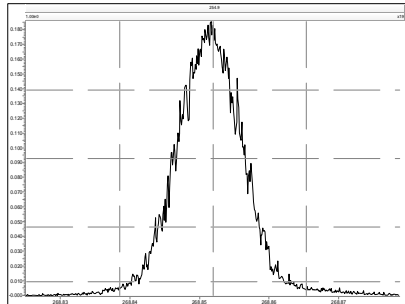
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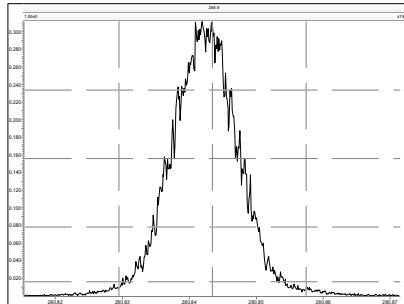
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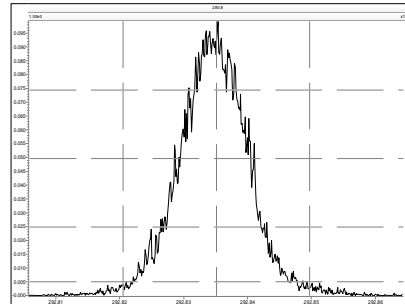
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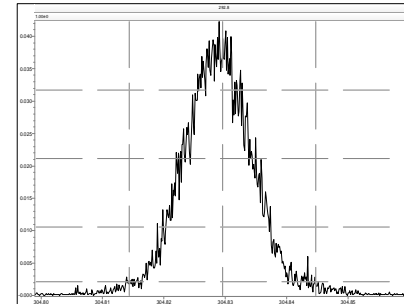
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M 292.9824 R 11364



M 304.9824 R 12825



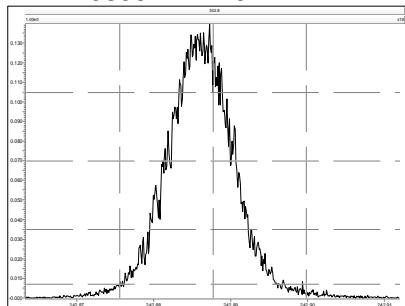
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

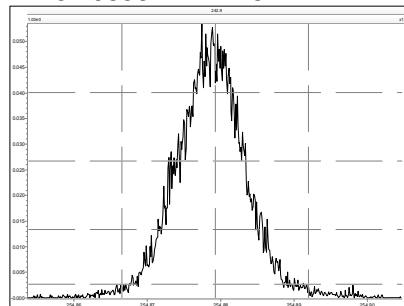
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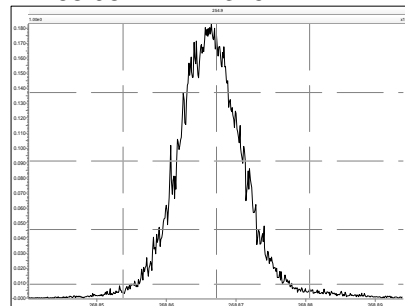
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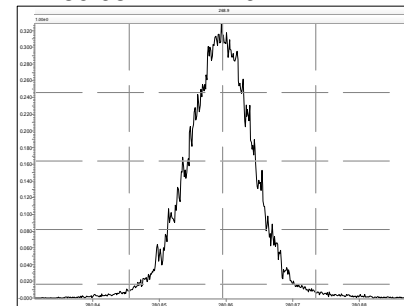
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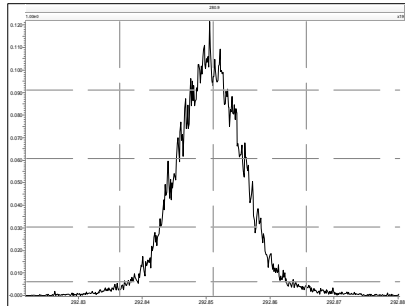
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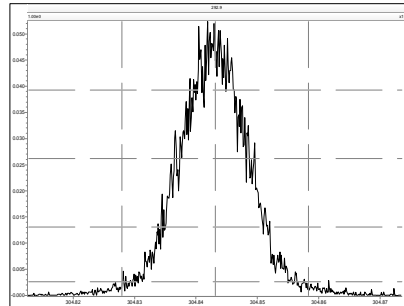
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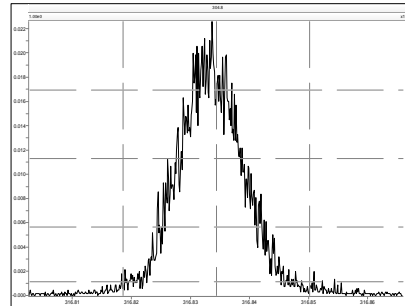
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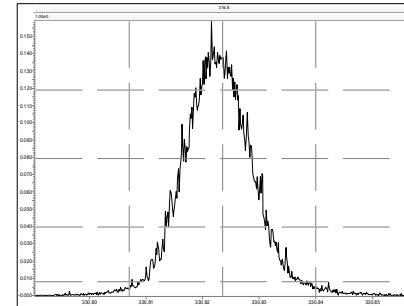
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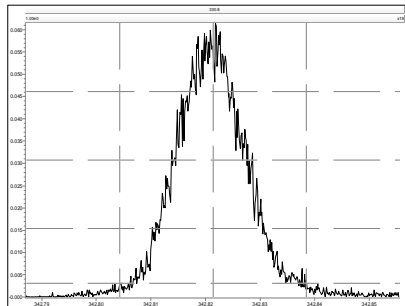
M 316.9824 R 13589



M 330.9792 R 11415



M 342.9792 R 11315





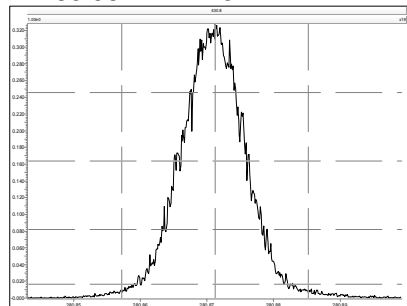
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

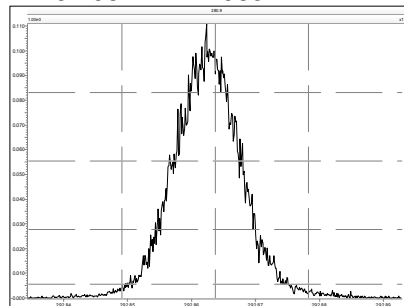
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Printed: Thursday, March 27, 2014 10:35:18 Eastern Daylight Time

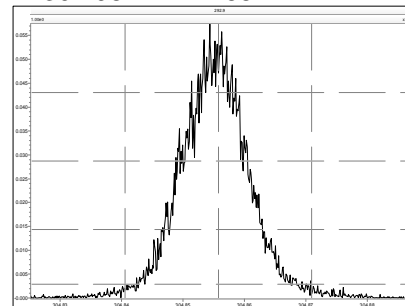
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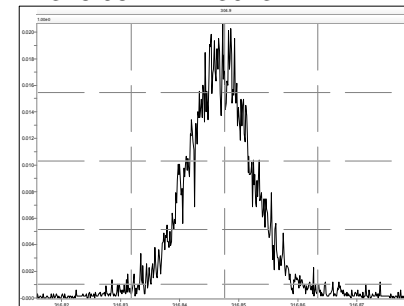
M 292.9824 R 11963



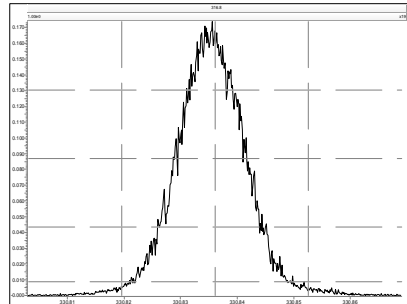
M 304.9824 R 11681



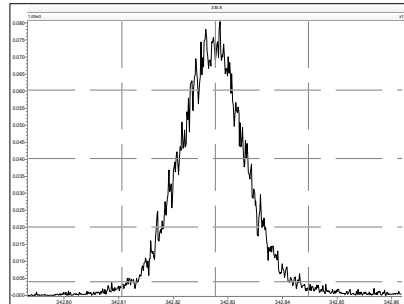
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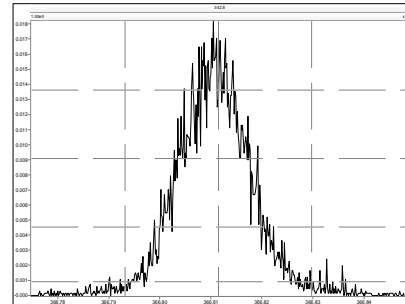
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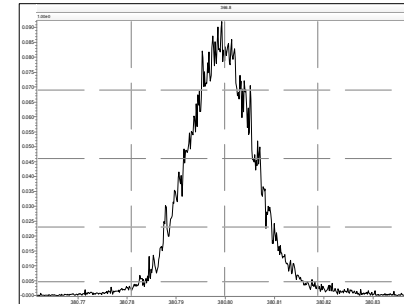
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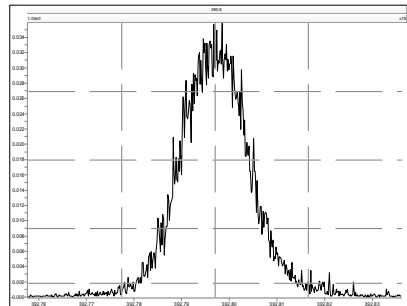
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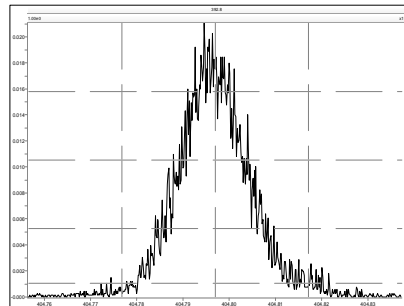
M 380.9760 R 11790



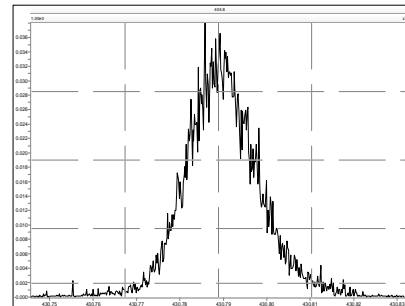
M 392.9760 R 11624



M 404.9760 R 12437



M 430.9728 R 11733



## Experiment Calibration Report

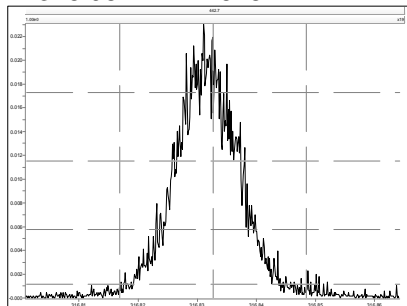
MassLynx 4.1 SCN 881

Page 1 of 1

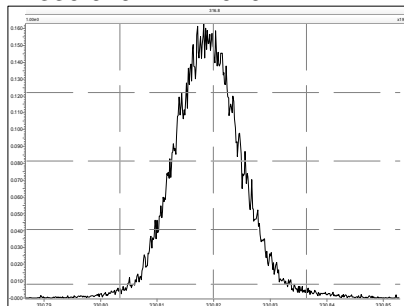
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Printed: Thursday, March 27, 2014 10:35:43 Eastern Daylight Time

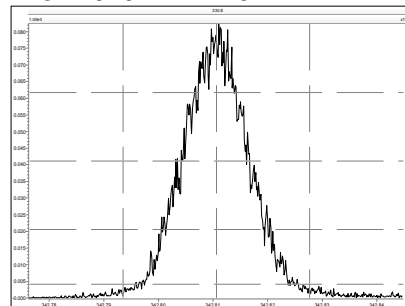
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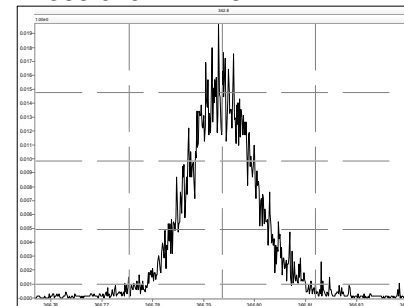
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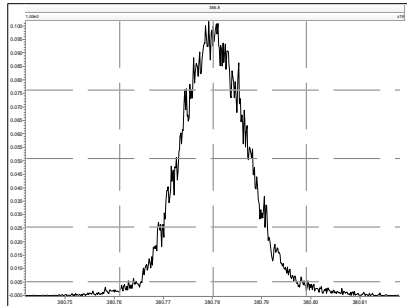
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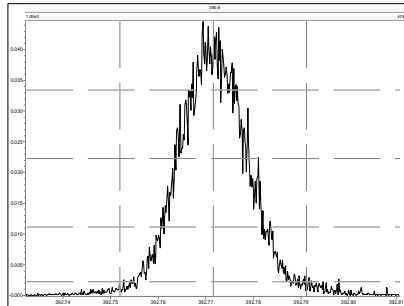
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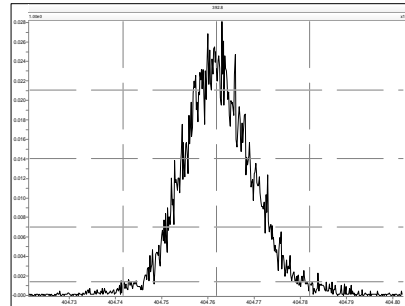
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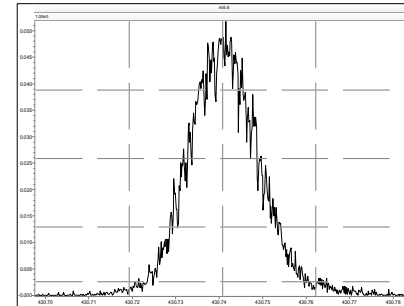
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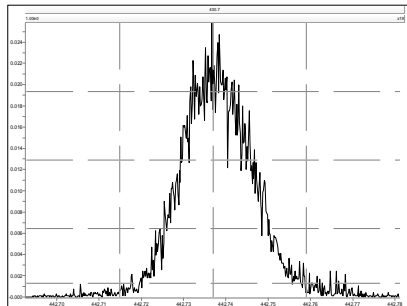
M 404.9760 R 11903



M 430.9728 R 12375



M 442.9728 R 11208



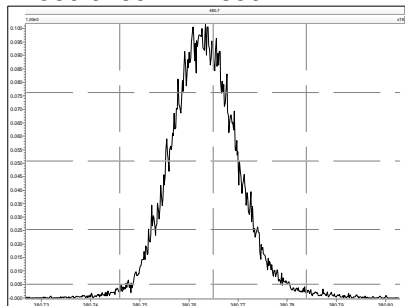
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

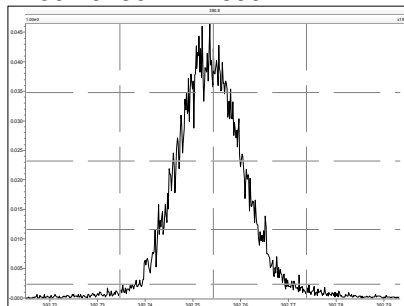
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Printed: Thursday, March 27, 2014 10:36:04 Eastern Daylight Time

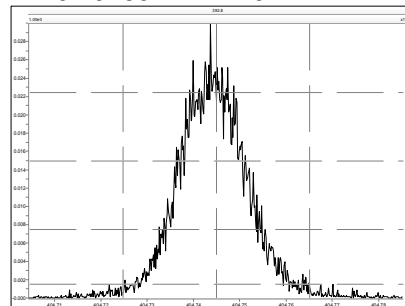
M 380.9760 R 11850



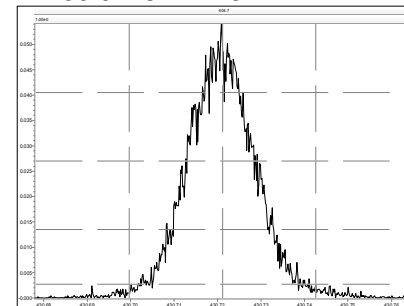
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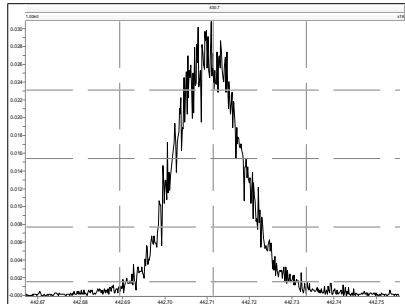
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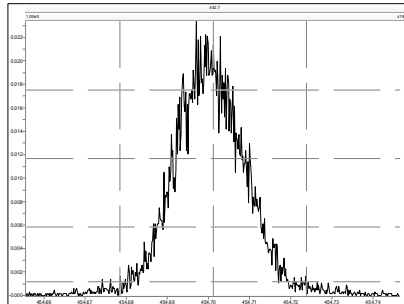
M 430.9728 R 12824



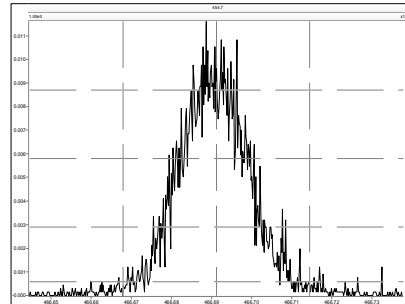
M 442.9728 R 11906



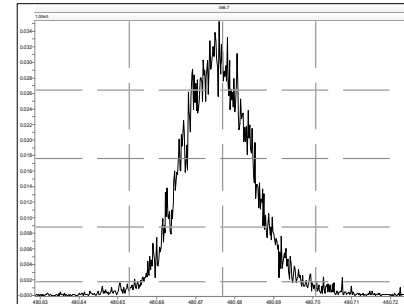
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M 466.9728 R 12753



M 480.9696 R 11733



## Experiment Calibration Report

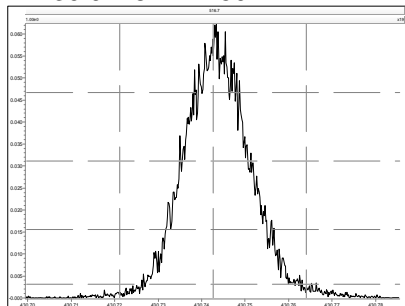
## MassLynx 4.1 SCN 881

Page 1 of 1

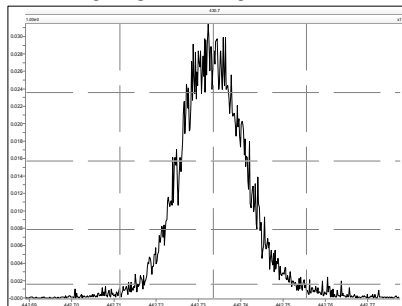
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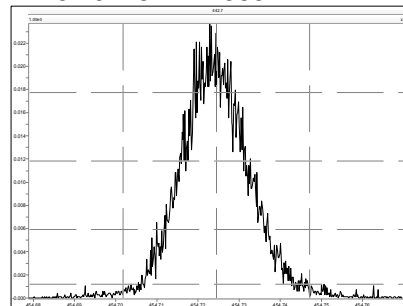
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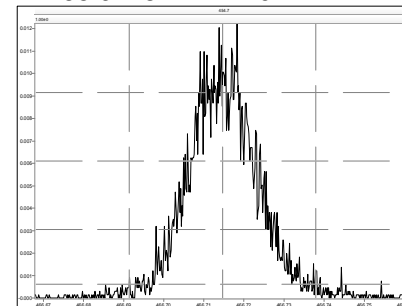
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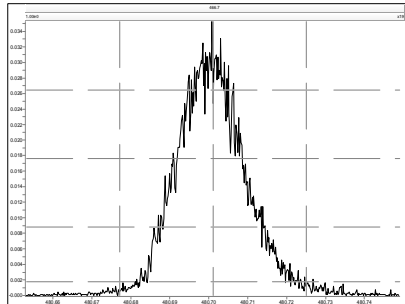
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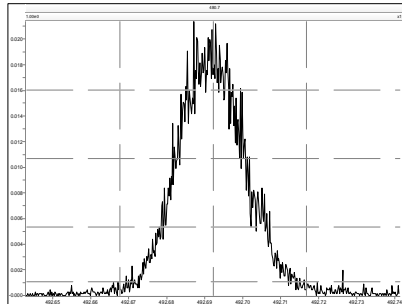
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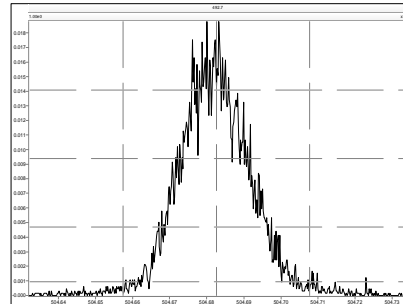
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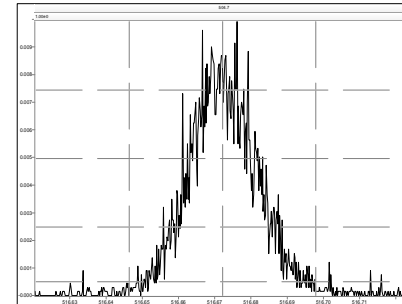
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M 504.9696 R 13018



M 516.9697 R 12626



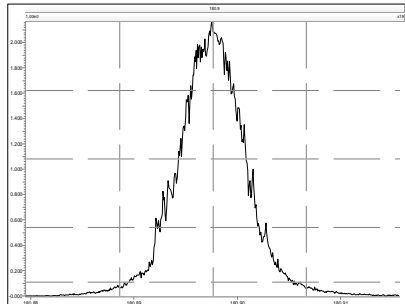
## Resolution Check Report

MassLynx 4.1 SCN 881

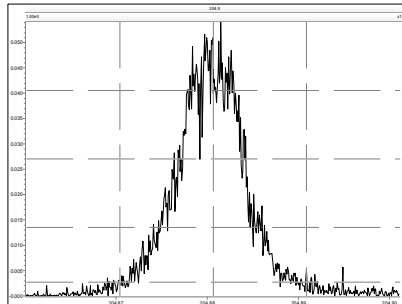
Page 1 of 5

Printed: Thursday, March 27, 2014 21:51:39 Eastern Daylight Time

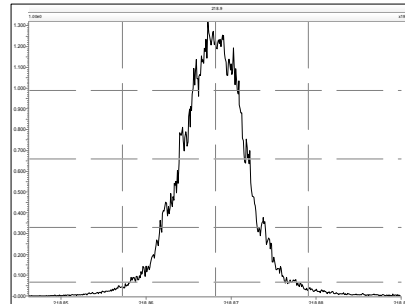
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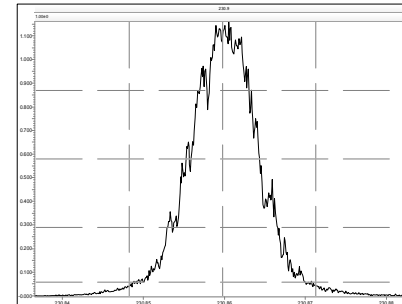
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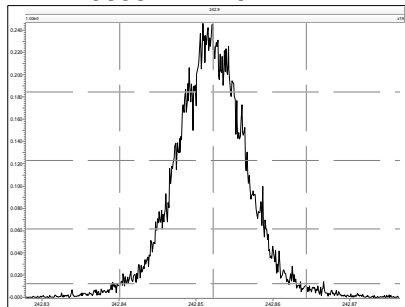
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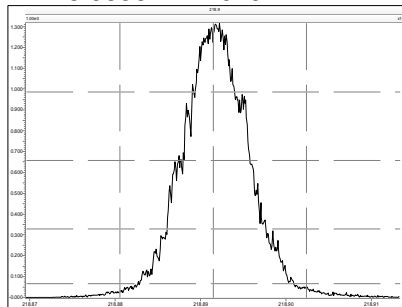
M 230.9856 R 11337



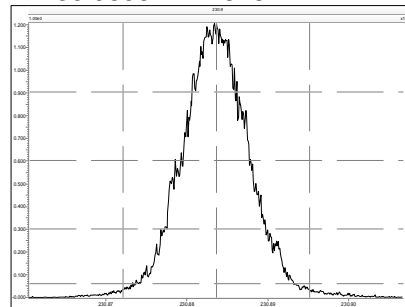
M 242.9856 R 11467



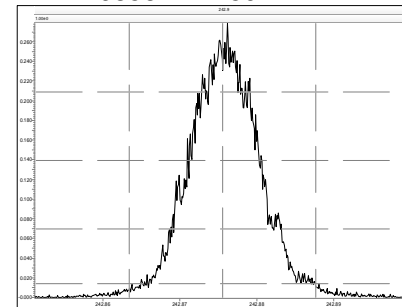
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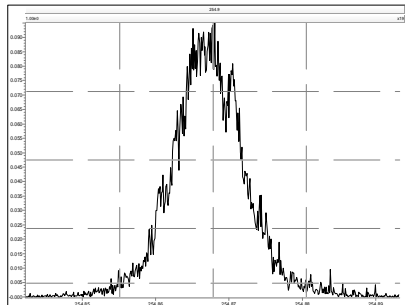
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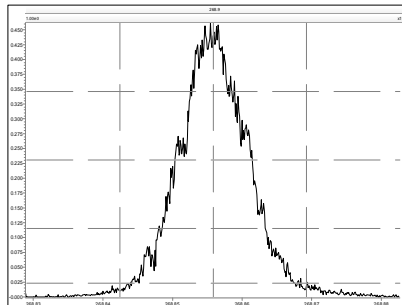
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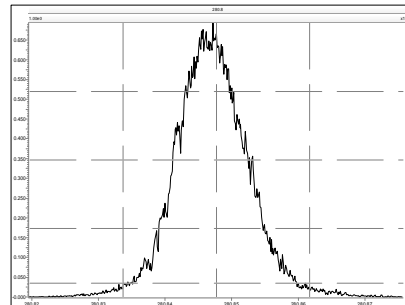
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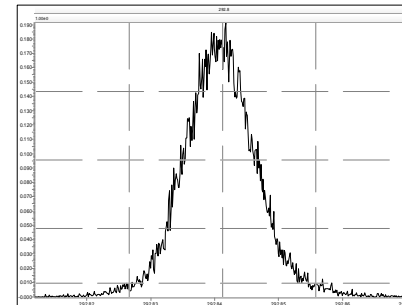
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M 280.9824 R 11160



M 292.9824 R 11286



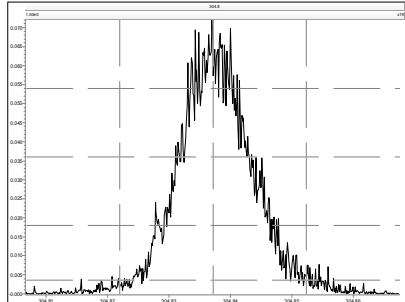
## Resolution Check Report

MassLynx 4.1 SCN 881

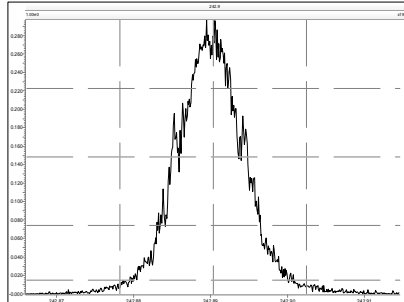
Page 2 of 5

Printed: Thursday, March 27, 2014 21:51:39 Eastern Daylight Time

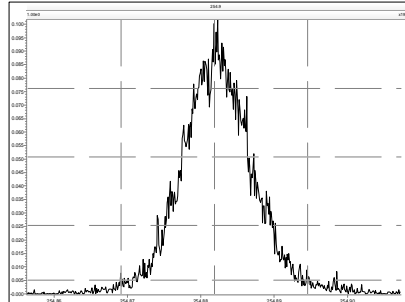
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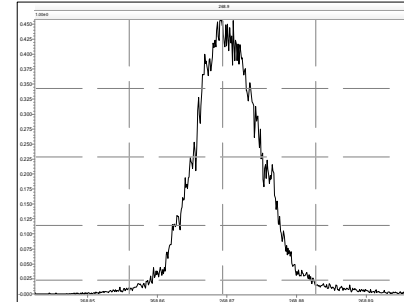
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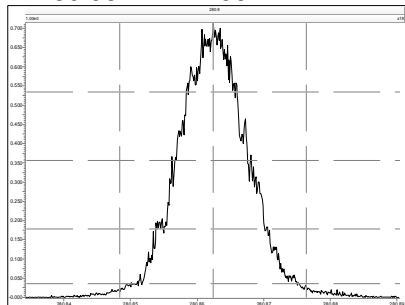
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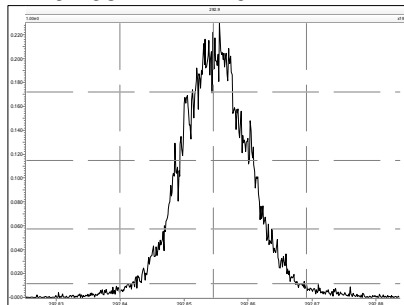
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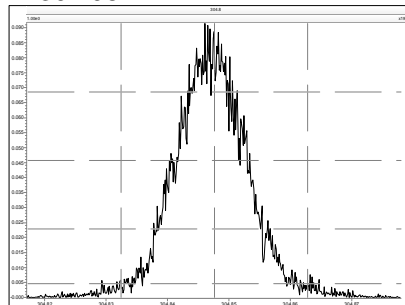
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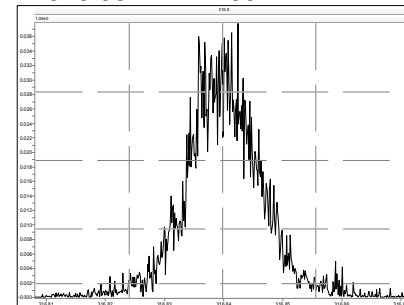
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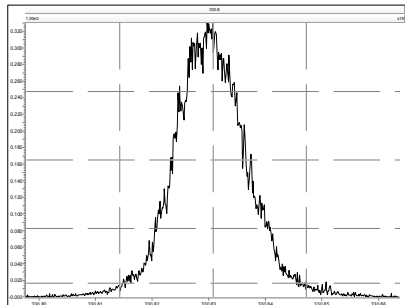
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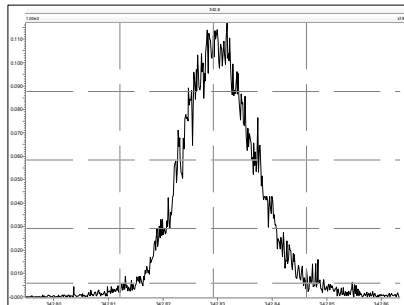
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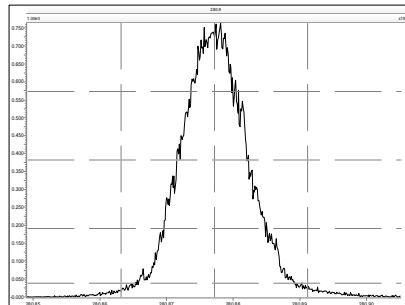
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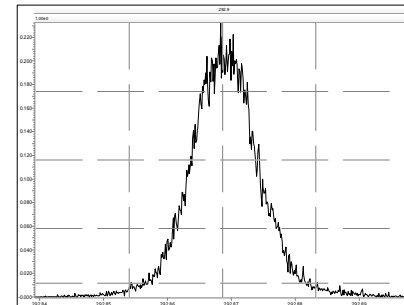
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M 280.9824 R 12199



M 292.9824 R 11684



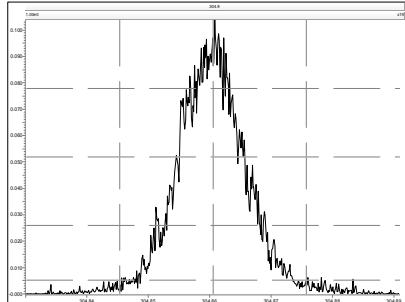
## Resolution Check Report

MassLynx 4.1 SCN 881

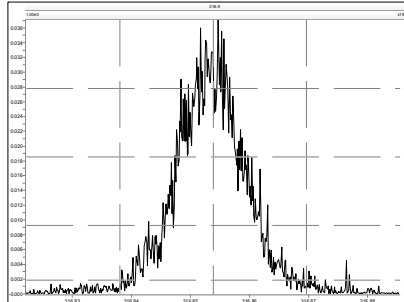
Page 3 of 5

Printed: Thursday, March 27, 2014 21:51:39 Eastern Daylight Time

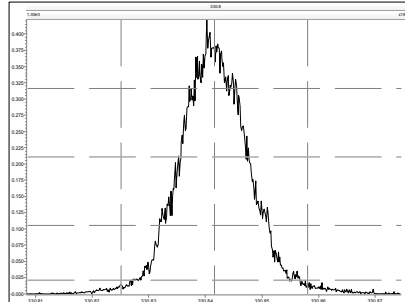
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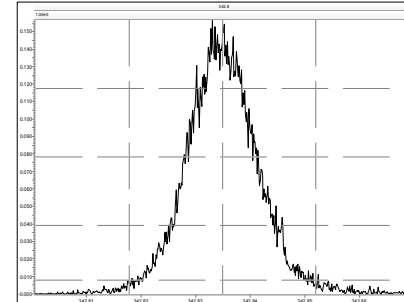
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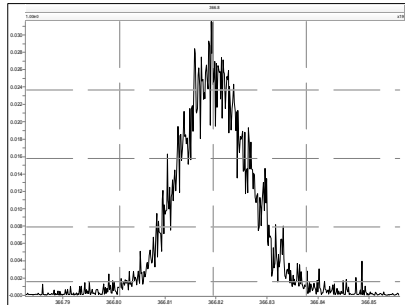
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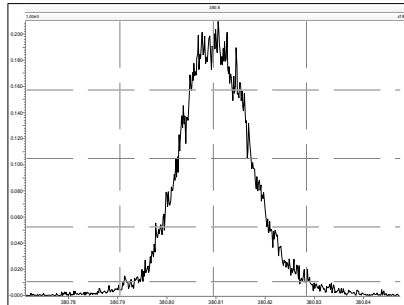
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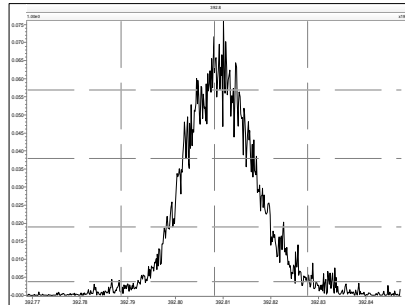
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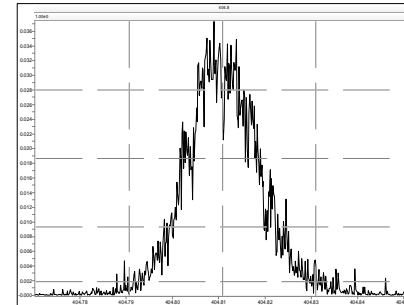
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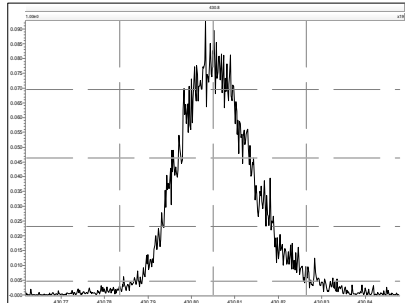
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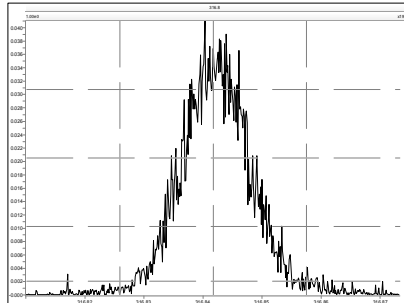
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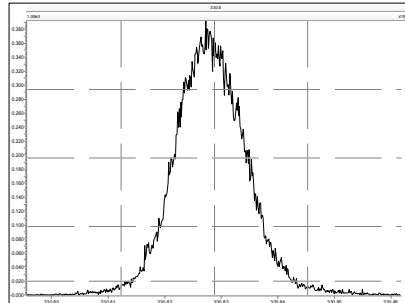
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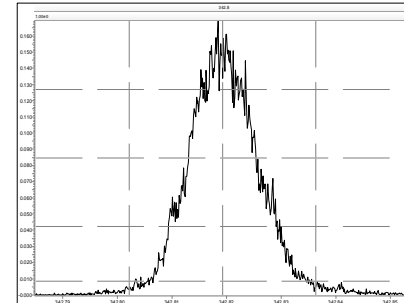
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M 330.9792 R 11905



M 342.9792 R 11881



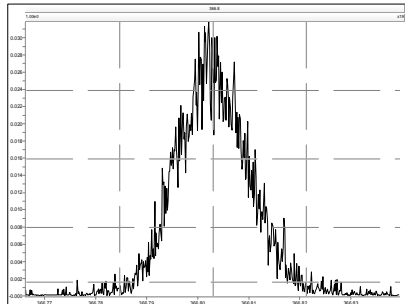
## Resolution Check Report

MassLynx 4.1 SCN 881

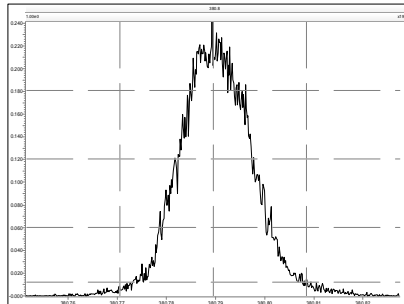
Page 4 of 5

Printed: Thursday, March 27, 2014 21:51:39 Eastern Daylight Time

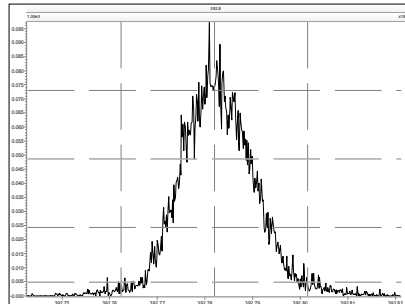
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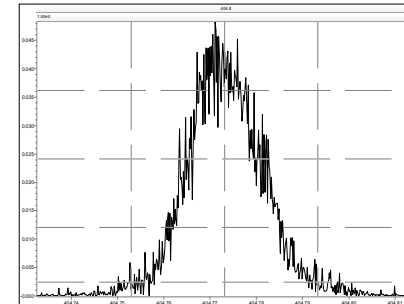
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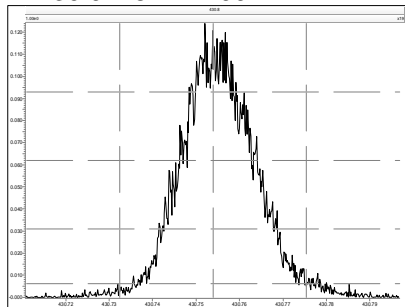
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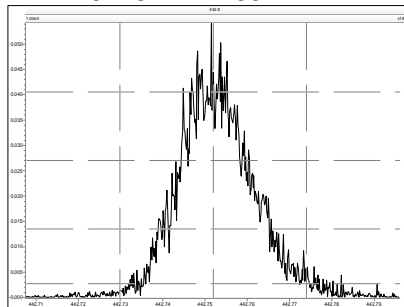
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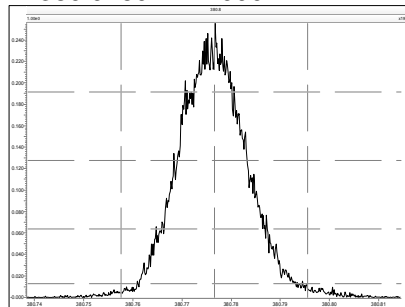
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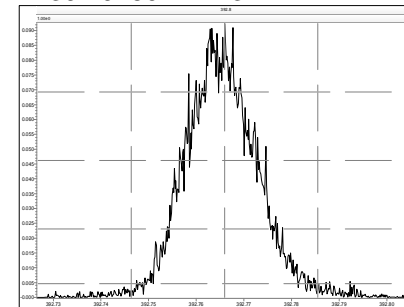
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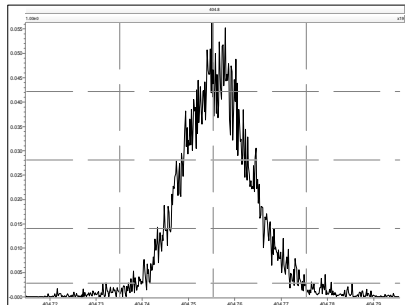
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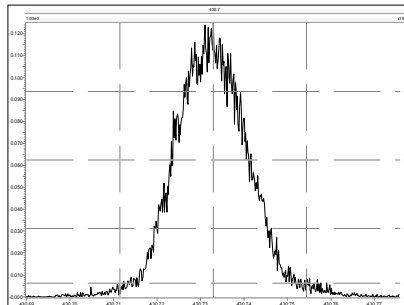
M 392.9760 R 12317



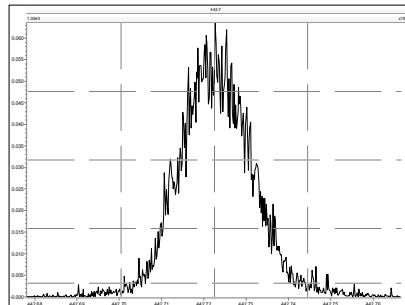
M 404.9760 R 12671



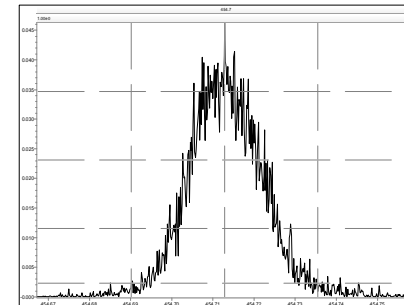
M 430.9728 R 11783



M 442.9728 R 11757



M 454.9728 R 12383





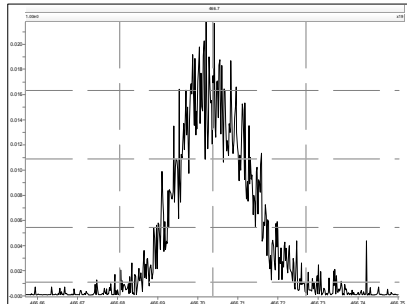
## Resolution Check Report

MassLynx 4.1 SCN 881

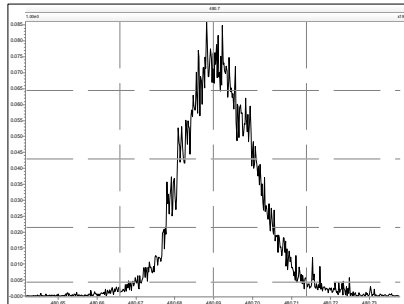
Page 5 of 5

Printed: Thursday, March 27, 2014 21:51:39 Eastern Daylight Time

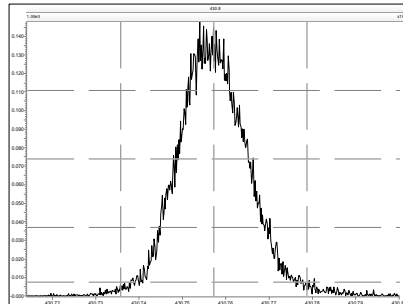
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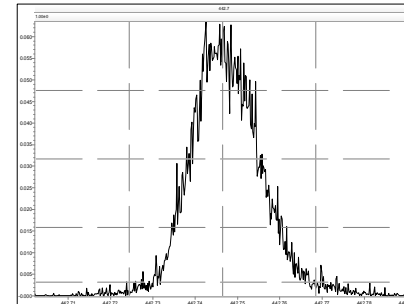
M 480.9696 R 11389



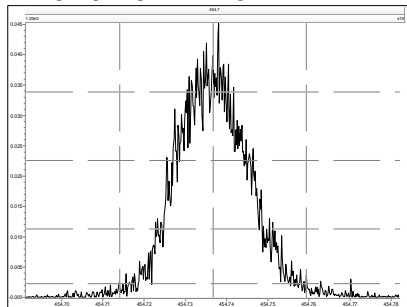
M 430.9728 R 11932



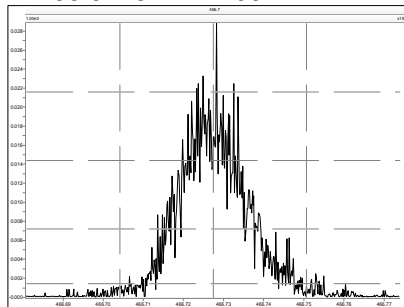
M 442.9728 R 12544



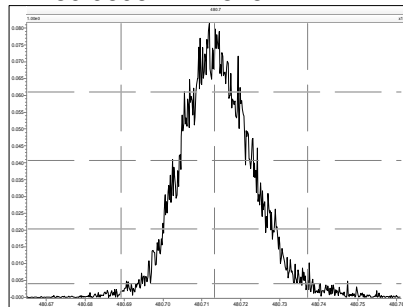
M 454.9728 R 12251



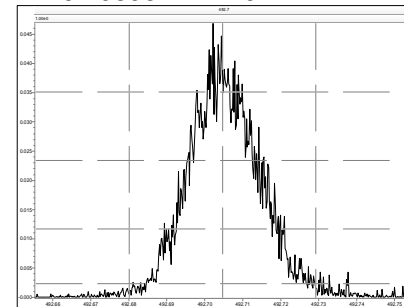
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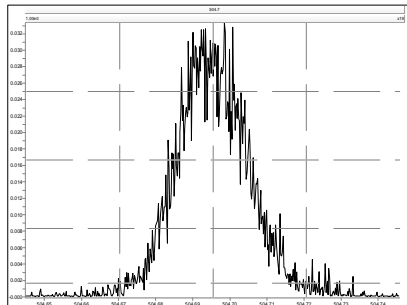
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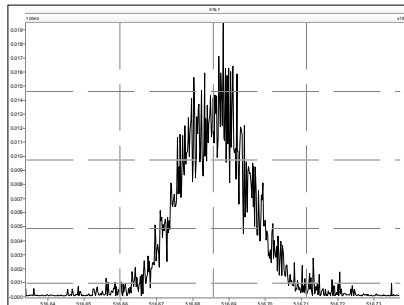
M 492.9696 R 12297



M 504.9696 R 12334



M 516.9697 R 12695



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
Date Processed: 3 Jan 2014 16:52			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
PCB-77 33'44'-TeCB	1.15	4.1%	1.17	1.11	1.09	1.14	1.17	1.22	
PCB-81 344'5'-TeCB	1.12	3.1%	1.08	1.13	1.08	1.12	1.14	1.17	
PCB-105 233'44'-PeCB	1.11	5.1%	1.13	1.02	1.07	1.13	1.15	1.18	
PCB-114 2344'5'-PeCB	1.20	4.8%	1.14	1.16	1.15	1.23	1.24	1.29	
PCB-118 23'44'5'-PeCB	1.19	4.2%	1.20	1.13	1.13	1.22	1.22	1.25	
PCB-123 23'44'5'-PeCB	1.21	2.4%	1.20	1.20	1.16	1.23	1.23	1.25	
PCB-126 33'44'5'-PeCB	1.11	5.8%	1.05	1.07	1.05	1.12	1.14	1.21	
PCB-156/157 ...-HxCB	1.10	4.0%	1.07	1.07	1.05	1.12	1.11	1.17	
PCB-167 23'44'55'-HxCB	1.16	4.0%	1.11	1.13	1.12	1.20	1.18	1.23	
PCB-169 33'44'55'-HxCB	1.12	3.5%	1.12	1.07	1.09	1.16	1.14	1.17	
PCB-189 233'44'55'-HpCB	1.07	5.0%	1.08	1.00	1.03	1.07	1.10	1.16	
PCB-209 DeCB	1.11	3.9%	1.18	1.10	1.06	1.09	1.10	1.15	
ES PCB-1	1.19	3.7%	1.25	1.22	1.21	1.18	1.17	1.13	
ES PCB-3	1.09	2.3%	1.12	1.09	1.10	1.06	1.08	1.06	
ES PCB-4	0.52	0.7%	0.52	0.52	0.53	0.52	0.52	0.53	
ES PCB-15	1.04	1.1%	1.04	1.04	1.05	1.02	1.05	1.05	
ES PCB-19	0.51	1.4%	0.50	0.50	0.51	0.50	0.51	0.52	
ES PCB-37	1.66	1.8%	1.69	1.64	1.68	1.61	1.66	1.69	
ES PCB-54	0.86	1.0%	0.86	0.86	0.88	0.85	0.86	0.85	
ES PCB-77	1.38	1.8%	1.38	1.37	1.42	1.34	1.38	1.40	
ES PCB-81	1.37	2.5%	1.37	1.35	1.36	1.32	1.38	1.42	
ES PCB-104	0.80	1.7%	0.82	0.80	0.82	0.80	0.79	0.78	
ES PCB-105	1.20	2.5%	1.22	1.21	1.25	1.18	1.18	1.17	
ES PCB-114	1.22	2.3%	1.24	1.22	1.26	1.19	1.21	1.19	
ES PCB-118	1.16	2.4%	1.19	1.17	1.19	1.13	1.14	1.14	
ES PCB-123	1.19	1.2%	1.19	1.20	1.20	1.16	1.19	1.18	
ES PCB-126	1.03	3.2%	1.07	1.02	1.07	0.99	1.01	1.01	
ES PCB-153	1.11	1.4%	1.14	1.11	1.13	1.10	1.11	1.10	
ES PCB-155	1.59	3.0%	1.66	1.60	1.63	1.56	1.56	1.52	
ES PCB-156/157	1.60	2.0%	1.60	1.57	1.63	1.56	1.64	1.61	
ES PCB-167	1.67	2.0%	1.68	1.65	1.71	1.62	1.70	1.65	
ES PCB-169	1.56	2.3%	1.54	1.53	1.58	1.51	1.60	1.58	
ES PCB-170	0.95	1.9%	0.92	0.93	0.96	0.95	0.95	0.97	
ES PCB-180	1.14	3.6%	1.11	1.10	1.13	1.11	1.16	1.21	
ES PCB-188	0.94	1.9%	0.97	0.93	0.96	0.92	0.93	0.93	
ES PCB-189	1.58	1.1%	1.61	1.57	1.60	1.57	1.57	1.58	
ES PCB-202	0.97	1.2%	0.96	0.96	0.99	0.97	0.97	0.97	
ES PCB-205	1.24	0.9%	1.24	1.23	1.26	1.24	1.25	1.25	
ES PCB-206	0.83	1.4%	0.83	0.82	0.85	0.83	0.83	0.82	

PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
ES PCB-208	1.17	1.4%	1.16	1.16	1.20	1.17	1.18	1.19	
ES PCB-209	1.11	1.9%	1.12	1.10	1.14	1.11	1.11	1.08	
SS PCB-28	1.11	1.2%	1.12	1.12	1.11	1.12	1.11	1.09	
SS PCB-111	1.03	1.6%	1.04	1.02	1.03	1.05	1.00	1.03	
SS PCB-178	0.62	2.7%	0.64	0.61	0.61	0.61	0.61	0.64	
CS PCB-28	1.85	1.4%	1.89	1.84	1.86	1.81	1.84	1.83	
CS PCB-111	1.22	1.4%	1.24	1.22	1.23	1.22	1.19	1.21	
CS PCB-178	0.58	3.7%	0.62	0.57	0.58	0.56	0.57	0.60	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46	
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53	
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29	
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24	
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31	
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31	
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10	
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13	
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19	
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18	

PCB ICAL Summary - Ax2 Detail			SGS Analytical Perspectives					Printed: 3 Jan 2014 16:53	
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013									
Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-2 3-MoCB	1.03	3.8%	1.02	1.01	0.98	1.08	1.08	1.02	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-10 26-DiCB	1.98	3.9%	1.91	1.90	1.93	2.05	2.04	2.06	
PCB-9 25-DiCB	0.95	2.8%	0.93	0.95	0.90	0.96	0.96	0.97	
PCB-7 24-DiCB	1.05	5.7%	0.95	1.03	1.02	1.09	1.08	1.11	
PCB-6 23'-DiCB	1.00	4.5%	0.97	0.94	0.96	1.03	1.03	1.05	
PCB-5 23-DiCB	1.00	4.8%	1.03	0.92	0.96	1.02	1.02	1.05	
PCB-8 24'-DiCB	1.03	3.2%	1.07	0.99	1.00	1.04	1.03	1.07	
PCB-14 35-DiCB	1.18	3.9%	1.14	1.14	1.15	1.20	1.21	1.25	
PCB-11 33'-DiCB	1.01	4.5%	0.98	0.95	0.99	1.03	1.04	1.07	
PCB-13/12 34'/34-DiCB	0.99	6.8%	0.88	0.96	0.97	1.02	1.03	1.07	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-30/18 246/22'5-TrCB	1.54	3.5%	1.49	1.47	1.51	1.57	1.59	1.60	
PCB-17 22'4-TrCB	1.31	4.4%	1.23	1.28	1.27	1.33	1.34	1.38	
PCB-27 23'6-TrCB	1.82	3.6%	1.77	1.76	1.77	1.83	1.87	1.92	
PCB-24 236-TrCB	1.72	3.4%	1.67	1.69	1.67	1.74	1.73	1.83	
PCB-16 22'3-TrCB	1.01	4.3%	0.99	0.94	1.00	1.00	1.05	1.06	
PCB-32 24'6-TrCB	1.92	2.4%	1.90	1.91	1.85	1.93	1.93	1.99	
PCB-34 23'5'-TrCB	1.14	3.0%	1.11	1.09	1.11	1.15	1.18	1.16	
PCB-23 235-TrCB	1.16	4.1%	1.20	1.09	1.10	1.18	1.19	1.17	
PCB-26/29 23'5/245-TrCB	1.17	3.0%	1.15	1.14	1.13	1.20	1.21	1.21	
PCB-25 23'4-TrCB	1.16	2.6%	1.13	1.14	1.13	1.18	1.18	1.18	
PCB-31 24'5-TrCB	1.23	3.3%	1.25	1.16	1.19	1.26	1.24	1.25	
PCB-28/20 244'/233'-TrCB	1.13	3.6%	1.13	1.08	1.08	1.17	1.17	1.17	
PCB-21/33 234/23'4'-TrCB	1.17	3.3%	1.15	1.14	1.13	1.21	1.21	1.21	
PCB-22 234'-TrCB	1.08	2.8%	1.08	1.05	1.04	1.09	1.10	1.12	
PCB-36 33'5-TrCB	1.17	4.4%	1.13	1.12	1.13	1.19	1.21	1.24	
PCB-39 34'5-TrCB	1.21	4.1%	1.18	1.16	1.16	1.24	1.25	1.27	
PCB-38 345-TrCB	1.10	3.7%	1.07	1.08	1.06	1.14	1.16	1.11	
PCB-35 33'4-TrCB	1.04	4.6%	1.01	0.98	1.00	1.08	1.07	1.10	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-50/53 22'46/22'56'-TeCB	0.88	2.7%	0.89	0.85	0.84	0.90	0.89	0.89	
PCB-45 22'36'-TeCB	0.77	5.4%	0.78	0.76	0.70	0.74	0.78	0.83	
PCB-51 22'46'-TeCB	0.86	5.9%	0.80	0.82	0.89	0.93	0.88	0.84	
PCB-46 22'36'-TeCB	0.70	2.5%	0.70	0.68	0.68	0.72	0.71	0.71	
PCB-52 22'55'-TeCB	0.84	1.7%	0.85	0.83	0.82	0.86	0.85	0.85	

PCB-73 23'56'-TeCB	1.11	4.0%	1.13	1.06	1.06	1.12	1.12	1.17
PCB-43 22'35'-TeCB	0.71	4.5%	0.68	0.68	0.72	0.77	0.72	0.70
PCB-69/49 23'46'/22'45'-TeCB	1.02	3.4%	0.99	0.98	0.99	1.05	1.05	1.06
PCB-48 22'45'-TeCB	0.84	3.5%	0.83	0.79	0.83	0.87	0.85	0.87
PCB-44/47/65 ...-TeCB	0.90	3.3%	0.89	0.88	0.86	0.93	0.93	0.93
PCB-59/62/75 ...-TeCB	1.17	3.7%	1.13	1.13	1.13	1.21	1.22	1.18
PCB-42 22'34'-TeCB	0.76	2.8%	0.76	0.73	0.75	0.79	0.77	0.78
PCB-41 22'34'-TeCB	0.69	4.3%	0.68	0.66	0.69	0.73	0.68	0.73
PCB-71/40 23'4'6'/22'33'-TeCB	0.86	3.9%	0.84	0.82	0.83	0.87	0.90	0.89
PCB-64 234'6'-TeCB	1.22	3.9%	1.17	1.18	1.18	1.27	1.25	1.28
PCB-72 23'55'-TeCB	1.21	2.1%	1.19	1.18	1.19	1.25	1.22	1.23
PCB-68 23'45'-TeCB	1.28	2.7%	1.26	1.24	1.24	1.31	1.31	1.30
PCB-57 233'5'-TeCB	1.16	2.6%	1.18	1.11	1.16	1.20	1.16	1.17
PCB-58 233'5'-TeCB	1.18	2.9%	1.17	1.13	1.15	1.20	1.19	1.23
PCB-67 23'45'-TeCB	1.26	1.9%	1.23	1.25	1.23	1.29	1.27	1.28
PCB-63 234'5'-TeCB	1.30	3.1%	1.30	1.26	1.24	1.33	1.32	1.34
PCB-61/70/74/76 ...-TeCB	1.20	2.4%	1.20	1.16	1.16	1.23	1.22	1.21
PCB-66 23'44'-TeCB	1.10	3.3%	1.06	1.06	1.09	1.14	1.14	1.13
PCB-55 233'4'-TeCB	1.12	2.3%	1.09	1.10	1.12	1.14	1.12	1.15
PCB-56 233'4'-TeCB	1.11	2.9%	1.13	1.05	1.10	1.13	1.12	1.13
PCB-60 2344'-TeCB	1.14	1.8%	1.13	1.12	1.11	1.15	1.14	1.16
PCB-80 33'55'-TeCB	1.31	2.3%	1.30	1.29	1.28	1.35	1.32	1.34
PCB-79 33'45'-TeCB	1.31	2.5%	1.26	1.33	1.28	1.31	1.35	1.32
PCB-78 33'45'-TeCB	1.06	4.2%	1.04	0.99	1.04	1.10	1.08	1.11
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46
PCB-96 22'366'-PeCB	1.23	4.7%	1.12	1.24	1.20	1.26	1.28	1.27
PCB-103 22'45'6'-PeCB	0.93	2.7%	0.91	0.91	0.91	0.96	0.95	0.95
PCB-94 22'356'-PeCB	0.80	3.3%	0.79	0.76	0.79	0.83	0.81	0.82
PCB-95 22'35'6'-PeCB	0.87	3.9%	0.89	0.80	0.85	0.89	0.87	0.89
PCB-100/93 22'44'6'/22'356'-PeCB	0.86	3.5%	0.84	0.83	0.85	0.88	0.90	0.89
PCB-102 22'456'-PeCB	0.97	6.3%	0.97	0.93	0.99	1.03	0.87	1.02
PCB-98 22'34'6'-PeCB	0.76	8.5%	0.73	0.68	0.71	0.80	0.86	0.77
PCB-88 22'346'-PeCB	0.80	11.9%	0.96	0.72	0.73	0.74	0.85	0.78
PCB-91 22'34'6'-PeCB	0.94	10.7%	0.76	0.95	0.94	1.04	0.95	1.03
PCB-84 22'33'6'-PeCB	0.72	4.5%	0.71	0.66	0.70	0.75	0.73	0.74
PCB-89 22'346'-PeCB	0.76	3.8%	0.73	0.74	0.75	0.80	0.78	0.79
PCB-121 23'45'6'-PeCB	1.20	3.2%	1.18	1.15	1.16	1.23	1.23	1.24
PCB-92 22'355'-PeCB	0.82	2.3%	0.82	0.81	0.79	0.84	0.83	0.84
PCB-113/90/101 ...-PeCB	0.99	2.4%	0.98	0.96	0.96	1.00	1.01	1.01
PCB-83 22'33'5'-PeCB	0.71	4.0%	0.77	0.70	0.71	0.72	0.70	0.69
PCB-99 22'44'5'-PeCB	0.92	6.0%	0.88	0.88	0.88	0.91	0.98	1.00
PCB-112 233'56'-PeCB	1.17	3.9%	1.12	1.12	1.16	1.24	1.17	1.18
PCB-108/119/86/97/125...-PeCB	0.98	3.2%	0.98	0.94	0.95	1.01	1.02	0.97
PCB-117 234'56'-PeCB	1.14	6.9%	1.02	1.15	1.15	1.17	1.09	1.25
PCB-116/85 23456/22'344'-PeCB	0.94	6.2%	1.02	0.87	0.88	0.94	0.99	0.95
PCB-110 233'4'6'-PeCB	1.12	6.3%	1.09	1.07	1.06	1.25	1.11	1.13
PCB-115 2344'6'-PeCB	1.16	4.4%	1.18	1.11	1.16	1.10	1.16	1.24

PCB-82 22'33'4-PeCB	0.70	3.4%	0.69	0.67	0.67	0.70	0.72	0.73
PCB-111 233'55'-PeCB	1.22	2.9%	1.23	1.17	1.19	1.25	1.23	1.26
PCB-120 23'455'-PeCB	1.21	4.3%	1.18	1.14	1.18	1.24	1.25	1.28
PCB-107/124 ...-PeCB	1.10	4.7%	1.07	1.03	1.07	1.14	1.12	1.17
PCB-109 233'46-PeCB	1.25	8.6%	1.26	1.05	1.26	1.33	1.26	1.36
PCB-106 233'45-PeCB	1.11	3.3%	1.12	1.08	1.04	1.12	1.13	1.14
PCB-122 233'4'5'-PeCB	0.99	4.1%	0.97	0.96	0.95	1.01	1.02	1.06
PCB-127 33'455'-PeCB	1.10	5.5%	1.09	1.04	1.03	1.11	1.12	1.19
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29
PCB-152 22'3566'-HxCB	1.17	4.1%	1.16	1.12	1.13	1.16	1.23	1.23
PCB-150 22'34'66'-HxCB	1.18	3.7%	1.18	1.10	1.15	1.20	1.21	1.22
PCB-136 22'33'66'-HxCB	1.07	6.5%	1.01	0.98	1.04	1.09	1.12	1.16
PCB-145 22'3466'-HxCB	1.11	3.0%	1.13	1.09	1.06	1.12	1.14	1.16
PCB-148 22'34'56'-HxCB	1.18	4.0%	1.14	1.14	1.16	1.19	1.23	1.25
PCB-151/135 ...-HxCB	1.14	2.4%	1.11	1.13	1.12	1.14	1.16	1.18
PCB-154 22'44'56'-HxCB	1.34	3.1%	1.38	1.29	1.30	1.33	1.37	1.38
PCB-144 22'345'6-HxCB	1.18	3.1%	1.22	1.12	1.17	1.19	1.20	1.20
PCB-147/149 ...-HxCB	1.18	3.5%	1.12	1.15	1.16	1.18	1.21	1.23
PCB-134 22'33'56'-HxCB	0.92	4.3%	0.97	0.90	0.88	0.89	0.96	0.94
PCB-143 22'3456'-HxCB	1.13	3.3%	1.07	1.10	1.14	1.18	1.12	1.16
PCB-139/140 ...-HxCB	1.21	3.3%	1.20	1.16	1.17	1.20	1.24	1.27
PCB-131 22'33'46-HxCB	1.03	2.7%	1.02	1.02	0.98	1.03	1.04	1.06
PCB-142 22'3456-HxCB	0.99	4.9%	0.96	0.92	0.97	1.01	1.03	1.06
PCB-132 22'33'46'-HxCB	1.03	2.0%	1.03	1.01	1.01	1.03	1.03	1.06
PCB-133 22'33'55'-HxCB	1.13	2.8%	1.13	1.11	1.09	1.13	1.16	1.17
PCB-165 233'55'6-HxCB	1.41	1.5%	1.41	1.39	1.40	1.42	1.39	1.44
PCB-146 22'34'55'-HxCB	1.20	3.4%	1.19	1.16	1.17	1.19	1.24	1.26
PCB-161 233'45'6-HxCB	1.52	3.6%	1.50	1.44	1.50	1.54	1.55	1.60
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53
PCB-141 22'3455'-HxCB	1.09	2.5%	1.10	1.05	1.07	1.10	1.10	1.12
PCB-130 22'33'45'-HxCB	0.97	1.8%	0.97	0.95	0.96	0.97	0.98	1.00
PCB-137 22'344'5-HxCB	1.16	5.1%	1.19	1.14	1.10	1.10	1.22	1.24
PCB-164 233'4'5'6-HxCB	1.50	5.4%	1.35	1.48	1.52	1.58	1.51	1.55
PCB-163/138/129 ...-HxCB	1.19	4.0%	1.18	1.15	1.14	1.17	1.23	1.27
PCB-160 233'456-HxCB	1.52	2.3%	1.49	1.48	1.49	1.55	1.56	1.52
PCB-158 233'44'6-HxCB	1.66	2.4%	1.69	1.64	1.62	1.63	1.67	1.72
PCB-128/166 ...-HxCB	0.90	5.7%	0.86	0.86	0.85	0.91	0.93	0.98
PCB-159 233'455'-HxCB	1.11	3.3%	1.09	1.11	1.07	1.13	1.12	1.17
PCB-162 233'4'55'-HxCB	1.07	5.3%	1.03	1.01	1.03	1.11	1.10	1.15
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31
PCB-179 22'33'566'-HpCB	1.16	1.6%	1.19	1.16	1.13	1.17	1.16	1.15
PCB-184 22'344'66'-HpCB	1.13	2.7%	1.14	1.09	1.10	1.13	1.13	1.17
PCB-176 22'33'466'-HpCB	1.23	1.7%	1.21	1.22	1.22	1.25	1.24	1.26
PCB-186 22'34566'-HpCB	1.13	1.5%	1.14	1.11	1.10	1.14	1.12	1.14
PCB-178 22'33'55'6-HpCB	0.84	3.8%	0.88	0.80	0.82	0.84	0.84	0.88
PCB-175 22'33'45'6-HpCB	1.07	4.2%	1.02	1.05	1.05	1.08	1.10	1.15
PCB-187 22'34'55'6-HpCB	1.14	4.0%	1.08	1.12	1.11	1.15	1.17	1.21

PCB-182 22'344'56'-HpCB	1.18	4.7%	1.09	1.14	1.16	1.22	1.21	1.23
PCB-183 22'344'5'6'-HpCB	1.20	3.5%	1.16	1.18	1.21	1.28	1.18	1.22
PCB-185 22'3455'6'-HpCB	1.06	9.3%	0.95	1.03	0.99	1.03	1.15	1.21
PCB-174 22'33'456'-HpCB	0.99	4.3%	0.93	1.04	0.96	1.00	0.98	1.03
PCB-177 22'33'45'6'-HpCB	0.95	2.6%	0.93	0.94	0.93	0.95	0.96	0.99
PCB-181 22'344'56'-HpCB	1.09	4.9%	1.03	1.07	1.04	1.11	1.12	1.17
PCB-171/173 ...-HpCB	0.95	5.3%	0.90	0.90	0.92	0.97	0.98	1.03
PCB-172 22'33'455'-HpCB	0.99	3.7%	0.96	0.97	0.95	1.02	1.00	1.04
PCB-192 233'455'6'-HpCB	1.29	5.1%	1.17	1.27	1.28	1.32	1.32	1.36
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31
PCB-191 233'44'5'6'-HpCB	1.40	2.6%	1.41	1.40	1.33	1.40	1.40	1.44
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24
PCB-190 233'44'56'-HpCB	1.66	5.4%	1.63	1.58	1.58	1.66	1.69	1.82
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10
PCB-201 22'33'45'66'-OcCB	1.22	3.2%	1.16	1.22	1.19	1.24	1.27	1.24
PCB-204 22'344'566'-OcCB	1.12	2.5%	1.10	1.13	1.08	1.12	1.12	1.16
PCB-197 22'33'44'66'-OcCB	1.19	5.1%	1.26	1.16	1.11	1.15	1.21	1.26
PCB-200 22'33'4566'-OcCB	1.11	5.6%	1.03	1.04	1.12	1.16	1.12	1.17
PCB-198/199 ...-OcCB	0.81	3.2%	0.80	0.79	0.78	0.80	0.82	0.86
PCB-196 22'33'44'56'-OcCB	0.83	2.8%	0.84	0.80	0.82	0.84	0.84	0.87
PCB-203 22'344'55'6'-OcCB	0.87	2.5%	0.87	0.85	0.85	0.88	0.88	0.91
PCB-195 22'33'44'56'-OcCB	0.77	4.3%	0.79	0.74	0.73	0.75	0.77	0.82
PCB-194 22'33'44'55'-OcCB	0.84	3.5%	0.88	0.82	0.81	0.84	0.85	0.88
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19
PCB-207 22'33'44'566'-NoCB	1.19	3.1%	1.20	1.16	1.14	1.20	1.20	1.24
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18

Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 0DEC2013	RSD	Mean	sd	PD from Mean
77	10.6	1.04	0.11	1.11	1.13	1.34	1.15	8.8	1.18	0.10	-4.3%
81	9.6	1.08	0.10	1.13	1.13	1.13	1.12	0.4	1.13	0.00	0.1%
105	4.6	0.96	0.04	1.11	1.09	1.15	1.11	2.1	1.11	0.02	-1.9%
114	4.9	0.96	0.05	1.18	1.16	1.22	1.2	2.1	1.19	0.02	-2.4%
118	6.8	0.95	0.06	1.11	1.11	1.17	1.19	3.7	1.15	0.04	-3.4%
123	3.9	0.97	0.04	1.08	1.19	1.27	1.21	6.5	1.19	0.08	0.2%
126	8.6	1.00	0.09	1.07	1.06	1.12	1.11	2.9	1.09	0.03	-2.6%
156/157	6.4	0.99	0.06	1.09	1.11	1.18	1.1	3.7	1.12	0.04	-1.2%
167	5.8	0.98	0.06	1.14	1.14	1.23	1.16	3.8	1.17	0.04	-2.8%
169	4.5	0.97	0.04	1.09	1.11	1.19	1.12	3.7	1.13	0.04	-1.5%
189	14.7	0.95	0.14	1.07	1.06	1.09	1.07	1.3	1.07	0.01	-1.4%
1	9.3	1.16	0.11	1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
3	9.5	1.16	0.11	0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
4	4.7	1.03	0.05	1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
15	11.8	1.02	0.12	0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
19	4.7	1.04	0.05	1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
37	12.1	1.06	0.13	1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
54	4.3	1.06	0.05	1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
104	5.4	1.01	0.05	1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
153				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
155	3.2	1.02	0.03	1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
170				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
180				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
188	4.2	1.02	0.04	1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
202	3.0	0.91	0.03	0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
205	5.4	0.96	0.05	1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
208	2.3	0.93	0.02	1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
206	3.2	0.97	0.03	0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.2%
209	7.0	0.95	0.07	1.07	1.07	1.13	1.11	2.6	1.10	0.03	-2.1%
<b>ES</b>											
1	6.7	1.01	0.07	1.08	1.08	1.20	1.19	6.0	1.14	0.07	-5.0%
3	5.5	1.02	0.06	1.14	1.08	1.14	1.09	2.7	1.11	0.03	-2.7%
4	10.0	0.69	0.07	0.50	0.49	0.57	0.52	6.8	0.52	0.04	-6.0%
15	4.2	1.06	0.04	1.18	1.11	1.07	1.04	5.5	1.10	0.06	0.8%
19	6.3	0.62	0.04	0.53	0.55	0.57	0.51	4.8	0.54	0.03	2.3%
37	10.4	1.36	0.14	1.64	1.64	1.55	1.66	2.9	1.62	0.05	0.8%
54	7.3	1.18	0.09	0.87	0.94	0.86	0.86	4.4	0.88	0.04	6.5%
77	11.1	1.23	0.14	1.26	1.35	1.11	1.38	9.6	1.27	0.12	5.7%
81	9.4	1.19	0.11	1.20	1.29	1.26	1.37	5.6	1.28	0.07	0.7%
104	8.0	1.33	0.11	1.08	0.99	0.89	0.8	13.2	0.94	0.12	5.6%
105	4.1	1.27	0.05	1.22	1.23	1.23	1.2	1.2	1.22	0.02	1.1%
114	4.2	1.31	0.05	1.24	1.25	1.24	1.22	1.0	1.24	0.01	0.7%
118	5.3	1.31	0.07	1.28	1.28	1.26	1.16	4.6	1.24	0.06	3.0%
123	3.9	1.24	0.05	1.35	1.22	1.21	1.19	5.9	1.24	0.07	-2.0%
126	6.7	1.30	0.09	1.22	1.20	1.09	1.03	7.9	1.14	0.09	5.6%
153				1.10	1.14	1.15	1.11	2.1	1.13	0.02	1.3%
155	7.0	1.42	0.10	1.41	1.50	1.56	1.59	5.1	1.51	0.08	-1.2%
156/157	7.7	1.22	0.09	1.41	1.45	1.59	1.6	6.4	1.51	0.10	-3.9%
167	7.6	1.25	0.09	1.43	1.49	1.68	1.67	8.1	1.57	0.13	-4.6%
169	8.1	1.23	0.10	1.37	1.40	1.42	1.56	5.8	1.44	0.08	-2.4%
170				1.04	1.00	0.93	0.95	5.1	0.98	0.05	2.1%
180				1.28	1.16	1.12	1.14	6.3	1.17	0.07	-1.3%
188	8.5	1.27	0.11	1.12	1.18	1.23	0.94	11.4	1.12	0.13	5.3%
189	7.8	1.52	0.12	1.53	1.49	1.46	1.58	3.5	1.51	0.05	-1.8%
202	6.6	1.18	0.08	1.07	1.14	1.10	0.97	6.7	1.07	0.07	6.4%
205	3.9	1.27	0.05	1.26	1.20	1.22	1.24	2.0	1.23	0.02	-2.2%
206	11.3	0.97	0.11	0.90	0.87	0.95	0.83	5.9	0.89	0.05	-2.1%
208	10.2	1.27	0.13	1.22	1.19	1.19	1.17	1.7	1.19	0.02	-0.2%



1668A/B ICALs				Historica Data								PD from
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	Mean	
209	8.3	1.20	0.10	1.06	1.00	1.12	1.11	5.1	1.07	0.06	-6.8%	
<b>SS</b>												
28	3.6	1.05	0.04	0.98	1.07	1.10	1.11	5.6	1.07	0.06	0.8%	
111	4.0	1.05	0.04	0.90	1.01	1.08	1.03	7.5	1.00	0.07	0.2%	
178	3.9	0.71	0.03	0.62	0.63	0.57	0.62	4.4	0.61	0.03	3.1%	

Additional Ax	RSD	Mean	sd	PD from Historical Mean
PCB-1 2-MoCB	5.1	0.98	0.05	4.9%
PCB-2 3-MoCB	3.7	1.00	0.04	3.8%
PCB-3 4-MoCB	3.4	1.00	0.03	4.4%
PCB-4 22-DiCB	4.5	1.16	0.05	0.8%
PCB-10 26-DiCB	6.5	1.82	0.12	0.7%
PCB-9 25-DiCB	5.7	0.89	0.05	0.4%
PCB-7 24-DiCB	4.3	1.01	0.04	1.4%
PCB-6 23-DiCB	4.7	0.95	0.04	-0.2%
PCB-5 23-DiCB	4.7	0.96	0.05	1.4%
PCB-8 24-DiCB	4.3	0.99	0.04	-0.2%
PCB-14 35-DiCB	4.2	1.14	0.05	1.5%
PCB-11 33-DiCB	3.3	0.98	0.03	1.7%
PCB-13/12 34-/34-DiCB	2.8	0.99	0.03	3.2%
PCB-15 44-DiCB	3.9	1.03	0.04	4.5%
PCB-19 22'6-TrCB	2.3	1.11	0.03	-1.7%
PCB-30/18 246-/22'5-TrCB	2.6	1.48	0.04	-1.6%
PCB-17 22'4-TrCB	2.0	1.28	0.03	-1.9%
PCB-27 23'6-TrCB	3.8	1.72	0.07	-1.8%
PCB-24 236-TrCB	3.1	1.65	0.05	-0.7%
PCB-16 22'3-TrCB	2.6	0.97	0.03	-2.1%
PCB-32 24'6-TrCB	3.1	1.84	0.06	-2.8%
PCB-34 2'35-TrCB	6.4	1.05	0.07	-0.3%
PCB-23 235-TrCB	6.9	1.07	0.07	-0.8%
PCB-26/29 23'5-/245-TrCB	6.3	1.08	0.07	0.3%
PCB-25 23'4-TrCB	6.5	1.08	0.07	-0.3%
PCB-31 24'5-TrCB	7.2	1.13	0.08	-1.3%
PCB-28/20 244-/233'-TrCB	5.6	1.06	0.06	0.7%
PCB-21/33 234-/2'34-TrCB	6.0	1.09	0.06	0.3%
PCB-22 234-TrCB	6.0	1.01	0.06	0.8%
PCB-36 33'5-TrCB	5.4	1.10	0.06	2.1%
PCB-39 34'5-TrCB	4.1	1.15	0.05	1.2%
PCB-38 345-TrCB	5.9	1.02	0.06	0.7%
PCB-35 33'4-TrCB	4.0	1.01	0.04	3.2%
PCB-37 344'-TrCB	4.2	1.06	0.04	4.3%
PCB-54 22'66'-TeCB	6.0	1.25	0.07	-3.0%
PCB-50/53 22'46-/22'56'-TeCB	2.0	0.87	0.02	-1.1%
PCB-45 22'36'-TeCB	2.2	0.75	0.02	-2.8%
PCB-51 22'46'-TeCB	3.2	0.87	0.03	0.6%
PCB-46 22'36'-TeCB	1.6	0.70	0.01	-0.3%
PCB-52 22'55'-TeCB	2.0	0.84	0.02	0.3%
PCB-73 23'5'6TeCB	1.4	1.11	0.02	-1.5%
PCB-43 22'35'-TeCB	4.5	0.70	0.03	3.0%
PCB-69/49 23'46-/22'45'-TeCB	2.1	1.02	0.02	-0.8%
PCB-48 22'45'-TeCB	1.7	0.85	0.01	0.4%
PCB-44/47/65 22'35'-/22'44'-	1.5	0.90	0.01	-0.8%
PCB-59/62/75 233'6-/2346-/24	2.4	1.15	0.03	-1.2%
PCB-42 22'34'-TeCB	2.9	0.78	0.02	-0.8%
PCB-41 22'34'-TeCB	2.2	0.71	0.02	2.1%
PCB-71/40 23'4'6/22'33'-TeCB	1.5	0.86	0.01	0.2%
PCB-64 2346'-TeCB	1.7	1.23	0.02	0.5%

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	0DEC2013				
PCB-72 23'55'-TeCB				1.13	1.14	1.17	1.21	3.0	1.16	0.03	-1.8%
PCB-68 23'45'-TeCB				1.21	1.21	1.26	1.28	2.8	1.24	0.04	-2.5%
PCB-57 23'3'5'-TeCB				1.10	1.11	1.12	1.16	2.3	1.12	0.03	-1.4%
PCB-58 23'3'5'-TeCB				1.11	1.10	1.16	1.18	3.4	1.14	0.04	-3.4%
PCB-67 23'45'-TeCB				1.15	1.16	1.20	1.26	4.2	1.19	0.05	-2.8%
PCB-63 23'4'5'-TeCB				1.22	1.22	1.25	1.30	3.1	1.25	0.04	-2.6%
PCB-61/70/74/76 23'45'-/23'4'5'				1.13	1.13	1.17	1.20	2.8	1.16	0.03	-2.3%
PCB-66 23'44'-TeCB				1.06	1.08	1.10	1.10	1.7	1.09	0.02	-0.9%
PCB-55 23'3'4'-TeCB				1.09	1.10	1.11	1.12	1.3	1.10	0.01	-0.6%
PCB-56 23'3'4'-TeCB				1.05	1.06	1.07	1.11	2.4	1.07	0.03	-1.7%
PCB-60 23'44'-TeCB				1.12	1.11	1.15	1.14	1.5	1.13	0.02	-1.5%
PCB-80 33'55'-TeCB				1.26	1.25	1.27	1.31	2.1	1.27	0.03	-1.5%
PCB-79 33'45'-TeCB				1.26	1.23	1.28	1.31	2.6	1.27	0.03	-2.9%
PCB-78 33'45'-TeCB				1.09	1.08	1.05	1.06	1.6	1.07	0.02	0.9%
PCB-104 22'466'-PeCB				1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
PCB-96 22'366'-PeCB				0.98	1.08	1.12	1.23	9.5	1.10	0.10	-2.4%
PCB-103 22'45'6'-PeCB				0.80	0.90	0.95	0.93	7.2	0.90	0.06	0.6%
PCB-94 22'356'-PeCB				0.70	0.78	0.81	0.80	6.6	0.77	0.05	0.4%
PCB-95 22'35'6'-PeCB				0.75	0.83	0.88	0.87	7.5	0.83	0.06	-0.7%
PCB-100/93 22'44'6'-/22'356'-P				0.76	0.84	0.90	0.86	6.9	0.84	0.06	0.2%
PCB-102 22'456'-PeCB				0.82	0.90	0.98	0.97	8.1	0.92	0.07	-1.9%
PCB-98 22'3'46'-PeCB				0.69	0.77	0.80	0.76	5.9	0.76	0.04	2.4%
PCB-88 22'3'46'-PeCB				0.67	0.79	0.77	0.80	7.8	0.76	0.06	4.7%
PCB-91 22'3'4'6'-PeCB				0.84	0.88	1.00	0.94	7.5	0.91	0.07	-3.8%
PCB-84 22'3'3'6'-PeCB				0.65	0.71	0.72	0.72	5.2	0.70	0.04	1.4%
PCB-89 22'3'46'-PeCB				0.68	0.76	0.78	0.76	6.0	0.75	0.04	1.9%
PCB-121 23'45'6'-PeCB				1.02	1.14	1.20	1.20	7.4	1.14	0.08	0.2%
PCB-92 22'355'-PeCB				0.73	0.80	0.84	0.82	6.0	0.80	0.05	0.2%
PCB-113/90/101 23'3'5'6'-/22'3				0.85	0.93	0.99	0.99	7.0	0.94	0.07	-0.9%
PCB-83 22'3'3'5'-PeCB				0.63	0.71	0.72	0.71	5.7	0.69	0.04	2.8%
PCB-99 22'44'5'-PeCB				0.82	0.87	0.95	0.92	6.5	0.89	0.06	-2.1%
PCB-112 23'3'56'-PeCB				1.01	1.13	1.17	1.17	6.7	1.12	0.07	0.7%
PCB-108/119/86/97/125/87 233				0.87	0.95	1.01	0.98	6.4	0.95	0.06	-0.1%
PCB-117 23'4'56'-PeCB				0.96	1.04	1.05	1.14	7.2	1.05	0.08	-0.7%
PCB-116/85 23'456'-/22'3'44'-Pe				0.87	0.97	1.03	0.94	7.0	0.95	0.07	2.2%
PCB-110 23'3'4'6'-PeCB				0.95	1.02	1.11	1.12	7.7	1.05	0.08	-2.6%
PCB-115 23'44'6'-PeCB				1.02	1.16	1.21	1.16	6.9	1.14	0.08	1.8%
PCB-82 22'3'3'4'-PeCB				0.63	0.69	0.72	0.70	5.5	0.68	0.04	0.9%
PCB-111 23'3'55'-PeCB				1.05	1.15	1.22	1.22	7.0	1.16	0.08	-0.5%
PCB-120 23'455'-PeCB				1.05	1.16	1.22	1.21	6.5	1.16	0.08	-0.1%
PCB-107/124 23'3'4'5'-/2'3'455'				0.99	1.07	1.11	1.10	5.3	1.07	0.06	0.6%
PCB-109 23'3'46'-PeCB				1.05	1.14	1.18	1.25	7.1	1.16	0.08	-1.2%
PCB-106 23'3'45'-PeCB				0.98	1.07	1.11	1.11	5.6	1.07	0.06	0.1%
PCB-122 2'3'3'45'-PeCB				1.01	1.00	1.01	0.99	1.0	1.00	0.01	-0.2%
PCB-127 33'455'-PeCB				1.12	1.10	1.08	1.10	1.5	1.10	0.02	-0.1%
PCB-155 22'44'66'-HxCB				1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
PCB-152 22'3'566'-HxCB				1.00	1.01	1.14	1.17	8.0	1.08	0.09	-6.4%
PCB-150 22'3'4'66'-HxCB				1.03	1.00	1.15	1.18	7.9	1.09	0.09	-8.0%
PCB-136 22'3'3'66'-HxCB				0.95	0.95	1.07	1.07	6.8	1.01	0.07	-5.7%
PCB-145 22'3'466'HxCB				0.98	0.96	1.09	1.11	7.4	1.03	0.08	-7.0%
PCB-148 22'3'4'56'-HxCB				0.96	0.97	1.12	1.18	10.5	1.06	0.11	-8.2%
PCB-151/135 22'355'6'-/22'33'				0.94	0.96	1.11	1.14	9.8	1.04	0.10	-7.2%
PCB-154 22'44'5'6'-HxCB				1.05	1.09	1.26	1.34	11.7	1.19	0.14	-8.1%
PCB-144 22'3'45'6'-HxCB				0.96	0.98	1.13	1.18	10.1	1.06	0.11	-7.7%
PCB-147/149 22'3'4'56'-/22'3'4'				0.96	0.99	1.14	1.18	10.3	1.07	0.11	-7.8%
PCB-134 22'3'3'56'-HxCB				0.78	0.80	0.90	0.92	8.1	0.85	0.07	-5.8%
PCB-143 22'3'456'-HxCB				0.92	0.95	1.09	1.13	10.0	1.02	0.10	-6.8%
PCB-139/140 22'3'44'6'-/22'3'44'				0.99	1.00	1.14	1.21	10.1	1.09	0.11	-7.9%
PCB-131 22'3'3'46'-HxCB				0.84	0.85	0.98	1.03	10.4	0.93	0.10	-8.2%
PCB-142 22'3'456'-HxCB				0.86	0.88	0.98	0.99	7.4	0.93	0.07	-5.7%
PCB-132 22'3'3'46'-HxCB				0.87	0.89	1.02	1.03	8.8	0.95	0.08	-6.7%
PCB-133 22'3'3'55'-HxCB				0.92	0.91	1.04	1.13	10.2	1.00	0.10	-8.7%

1668A/B ICALs		Historica Data									349 of 622
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean
PCB-165 233'55'6'-HxCB				1.12	1.13	1.32	1.41	11.4	1.24	0.14	-9.0%
PCB-146 22'34'55'-HxCB				0.99	1.01	1.16	1.20	10.0	1.09	0.11	-7.6%
PCB-161 233'45'6'-HxCB				1.24	1.25	1.41	1.52	9.8	1.36	0.13	-7.6%
PCB-153/168 22'44'55'-/23'44'				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
PCB-141 22'3455'-HxCB				0.92	0.93	1.06	1.09	8.9	1.00	0.09	-7.3%
PCB-130 22'33'45'-HxCB				0.82	0.85	0.95	0.97	8.2	0.90	0.07	-5.7%
PCB-137 22'344'5'-HxCB				1.00	1.04	1.08	1.16	6.3	1.07	0.07	-2.7%
PCB-164 233'4'5'6'-HxCB				1.21	1.22	1.45	1.50	11.2	1.35	0.15	-9.1%
PCB-163/138/129 233'4'56'-/22'				1.01	1.02	1.14	1.19	8.1	1.09	0.09	-6.2%
PCB-160 233'456'-HxCB				1.18	1.21	1.32	1.52	11.9	1.31	0.16	-7.6%
PCB-158 233'44'6'-HxCB				1.30	1.34	1.50	1.66	11.4	1.45	0.17	-7.7%
PCB-128/166 22'33'44'-/2344'5				0.91	0.90	0.95	0.90	2.7	0.92	0.02	-1.9%
PCB-159 233'455'-HxCB				1.07	1.06	1.14	1.11	3.0	1.10	0.03	-3.0%
PCB-162 233'4'55'-HxCB				1.09	1.08	1.14	1.07	2.7	1.09	0.03	-1.7%
PCB-188 22'34'566'-HpCB				1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
PCB-179 22'33'566'-HpCB				0.95	0.97	0.92	1.16	10.8	1.00	0.11	-3.1%
PCB-184 22'344'66'-HpCB				0.94	0.93	0.90	1.13	10.6	0.98	0.10	-4.6%
PCB-176 22'33'466'-HpCB				1.05	1.05	1.00	1.23	9.4	1.08	0.10	-3.2%
PCB-186 22'34566'-HpCB				0.98	0.98	0.94	1.13	8.3	1.01	0.08	-2.6%
PCB-178 22'33'55'6'-HpCB				0.73	0.74	0.69	0.84	8.6	0.75	0.06	-1.8%
PCB-175 22'33'45'6'-HpCB				0.95	1.01	1.09	1.07	6.1	1.03	0.06	-2.0%
PCB-187 22'34'55'6'-HpCB				0.99	1.06	1.17	1.14	7.4	1.09	0.08	-2.5%
PCB-182 22'344'56'-HpCB				1.02	1.11	1.19	1.18	6.9	1.12	0.08	-1.2%
PCB-183 22'344'5'6'-HpCB				1.06	1.13	1.17	1.20	5.4	1.14	0.06	-0.6%
PCB-185 22'3455'6'-HpCB				0.95	1.02	1.13	1.06	7.3	1.04	0.08	-2.0%
PCB-174 22'33'456'-HpCB				0.83	0.93	0.99	0.99	8.0	0.93	0.07	-0.7%
PCB-177 22'33'4'56'-HpCB				0.85	0.91	0.97	0.95	5.7	0.92	0.05	-1.3%
PCB-181 22'344'56'-HpCB				0.98	1.06	1.10	1.09	4.9	1.06	0.05	0.3%
PCB-171/173 22'33'44'6'-/22'3				0.85	0.93	0.96	0.95	5.4	0.92	0.05	0.6%
PCB-172 22'33'455'-HpCB				0.88	0.95	0.99	0.99	5.5	0.95	0.05	0.3%
PCB-192 233'455'6'-HpCB				1.12	1.24	1.26	1.29	6.0	1.23	0.07	1.0%
PCB-180/193 22'344'55'-/233'				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
PCB-191 233'44'5'6'-HpCB				1.20	1.30	1.32	1.40	6.4	1.31	0.08	-0.3%
PCB-170 22'33'44'5'-HpCB				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
PCB-190 233'44'56'-HpCB				1.42	1.45	1.54	1.66	7.2	1.52	0.11	-4.3%
PCB-202 22'33'55'66'-OcCB				0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
PCB-201 22'33'45'66'-OcCB				1.04	1.02	1.07	1.22	8.3	1.09	0.09	-6.2%
PCB-204 22'344'566'-OcCB				0.99	0.98	1.02	1.12	6.3	1.03	0.07	-4.9%
PCB-197 22'33'44'66'-OcCB				1.03	1.06	1.13	1.19	6.3	1.10	0.07	-3.6%
PCB-200 22'33'4566'-OcCB				1.02	0.96	1.02	1.11	6.0	1.03	0.06	-6.4%
PCB-198/199 22'33'455'6'-/22'				0.74	0.72	0.73	0.81	5.7	0.75	0.04	-4.2%
PCB-196 22'33'44'56'-OcCB				0.77	0.73	0.76	0.83	5.5	0.77	0.04	-5.3%
PCB-203 22'344'55'6'-OcCB				0.80	0.76	0.79	0.87	5.7	0.80	0.05	-5.1%
PCB-195 22'33'44'56'-OcCB				0.79	0.80	0.82	0.77	2.7	0.80	0.02	0.5%
PCB-194 22'33'44'55'-OcCB				0.87	0.87	0.89	0.84	2.3	0.87	0.02	0.7%
PCB-205 233'44'55'6'-OcCB				1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
PCB-208 22'33'455'66'-NoCB				1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
PCB-207 22'33'44'566'-NoCB				1.07	1.06	1.10	1.19	5.4	1.10	0.06	-4.3%
PCB-206 22'33'44'55'6'-NoCB				0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.0%

## SGS Analytical Perspectives — Run Log

Project: 131220 QC MM7

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	131220X02	Tray1:37	CS0_131220_PCB_XA	1.00	SIL 13-79-6	LKB	067-110	20-Dec-2013	14:56:33
3	131220X03	Tray1:38	CS1_131220_PCB_XA	1.00	SIL 13-79-5	LKB	983-753	20-Dec-2013	16:14:56
4	131220X04	Tray1:39	CS2_131220_PCB_XA	1.00	SIL 13-79-4	LKB	288-489	20-Dec-2013	17:09:38
5	131220X05	Tray1:40	CS3_131220_PCB_XA	1.00	SIL 13-79-3	LKB	297-225	20-Dec-2013	18:04:38
6	131220X06	Tray1:41	CS4_131220_PCB_XA	1.00	SIL 13-79-2	LKB	186-257	20-Dec-2013	18:59:38
7	131220X07	Tray1:02	SBS_131220_PCB_XB	1.00	SIL 9-42-1	LKB	307-094	20-Dec-2013	19:54:39
8	131220X08	Tray1:42	CS5_131220_PCB_XA	1.00	SIL 13-84-1	LKB	807-075	20-Dec-2013	20:49:35
9	131220X09	Tray1:02	SBS_131220_PCB_XC	1.00	SIL 9-42-1	LKB	023-880	20-Dec-2013	21:57:30
10	131220X10	Tray1:02	SBS_131220_PCB_XD	1.00	SIL 9-42-1	LKB	979-518	20-Dec-2013	22:52:16

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	6.82E+05	0.76 Y	1.15	1.17	1.8%	
PCB-81 344'5'-TeCB	32.64	6.25E+05	0.76 Y	1.12	1.08	-3.1%	
PCB-105 233'44'-PeCB	36.11	5.30E+05	0.63 Y	1.11	1.13	1.5%	
PCB-114 2344'5'-PeCB	35.57	5.44E+05	0.67 Y	1.20	1.14	-5.0%	
PCB-118 23'44'5'-PeCB	35.10	5.47E+05	0.67 Y	1.19	1.20	0.6%	
PCB-123 23'44'5'-PeCB	34.82	5.49E+05	0.63 Y	1.21	1.20	-0.6%	
PCB-126 33'44'5'-PeCB	38.73	4.31E+05	0.61 Y	1.11	1.05	-5.2%	
PCB-156/157 ...-HxCB	41.28	8.79E+05	1.18 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	4.81E+05	1.11 Y	1.16	1.11	-4.2%	
PCB-169 33'44'55'-HxCB	44.00	4.43E+05	1.39 Y	1.12	1.12	-0.5%	
PCB-189 233'44'55'-HpCB	46.13	4.42E+05	1.03 Y	1.07	1.08	0.2%	
PCB-209 DeCB	51.25	3.36E+05	1.21 Y	1.11	1.18	6.0%	
ES PCB-1	12.05	2.32E+08	3.31 Y	1.19	1.25	5.1%	
ES PCB-3	14.37	2.09E+08	3.36 Y	1.09	1.12	3.5%	
ES PCB-4	14.63	9.70E+07	1.64 Y	0.52	0.52	0.1%	
ES PCB-15	20.39	1.92E+08	1.56 Y	1.04	1.04	-0.4%	
ES PCB-19	17.75	9.22E+07	1.08 Y	0.51	0.50	-1.7%	
ES PCB-37	26.75	1.42E+08	1.09 Y	1.66	1.69	1.7%	
ES PCB-54	20.68	7.28E+07	0.79 Y	0.86	0.86	0.4%	
ES PCB-77	33.10	1.16E+08	0.80 Y	1.38	1.38	-0.1%	
ES PCB-81	32.62	1.15E+08	0.81 Y	1.37	1.37	0.2%	
ES PCB-104	25.69	6.25E+07	1.64 Y	0.80	0.82	1.5%	
ES PCB-105	36.09	9.38E+07	1.62 Y	1.20	1.22	1.8%	
ES PCB-114	35.55	9.51E+07	1.64 Y	1.22	1.24	1.8%	
ES PCB-118	35.08	9.14E+07	1.64 Y	1.16	1.19	2.9%	
ES PCB-123	34.80	9.13E+07	1.59 Y	1.19	1.19	0.4%	
ES PCB-126	38.71	8.22E+07	1.56 Y	1.03	1.07	4.3%	
ES PCB-153	36.67	5.84E+07	1.32 Y	1.11	1.14	2.1%	
ES PCB-155	30.66	8.51E+07	1.30 Y	1.59	1.66	4.3%	
ES PCB-156/157	41.26	1.64E+08	1.31 Y	1.60	1.60	0.0%	
ES PCB-167	40.28	8.65E+07	1.29 Y	1.67	1.68	0.9%	
ES PCB-169	43.98	7.92E+07	1.29 Y	1.56	1.54	-1.0%	
ES PCB-170	43.50	4.71E+07	1.09 Y	0.95	0.92	-2.5%	
ES PCB-180	42.43	5.69E+07	1.07 Y	1.14	1.11	-2.0%	
ES PCB-188	35.54	4.97E+07	1.11 Y	0.94	0.97	2.9%	
ES PCB-189	46.11	8.21E+07	1.04 Y	1.58	1.61	1.7%	
ES PCB-202	40.09	4.94E+07	0.92 Y	0.97	0.96	-0.9%	
ES PCB-205	48.28	6.33E+07	0.90 Y	1.24	1.24	-0.3%	
ES PCB-206	49.75	4.24E+07	0.81 Y	0.83	0.83	0.3%	
ES PCB-208	45.73	5.90E+07	0.81 Y	1.17	1.16	-1.6%	
ES PCB-209	51.23	5.69E+07	1.19 Y	1.11	1.12	0.5%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.59E+08	1.09 Y	1.11	1.12	0.5%	
SS PCB-111	33.12	9.52E+07	1.60 Y	1.03	1.04	1.3%	
SS PCB-178	38.11	3.17E+07	1.06 Y	0.62	0.64	3.0%	
CS PCB-28	23.18	1.59E+08	1.09 Y	1.85	1.89	2.2%	
CS PCB-111	33.12	9.52E+07	1.60 Y	1.22	1.24	1.7%	
CS PCB-178	38.11	3.17E+07	1.06 Y	0.58	0.62	6.0%	
JS PCB-9	16.63	1.86E+08	1.57 Y	-	-	-	
JS PCB-52	24.81	8.42E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	7.67E+07	1.63 Y	-	-	-	
JS PCB-138	37.74	5.14E+07	1.34 Y	-	-	-	
JS PCB-194	47.88	5.10E+07	0.93 Y	-	-	-	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	3.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	0.9%	
PCB-2 3-MoCB	14.20	1.07E+06	3.22 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-10 26'-DiCB	14.83	9.26E+05	0.00 S	1.98	1.91	-3.6%	
PCB-9 25'-DiCB	16.65	8.91E+05	0.00 S	0.95	0.93	-2.0%	
PCB-7 24'-DiCB	16.82	9.13E+05	0.00 S	1.05	0.95	-9.2%	
PCB-6 23'-DiCB	17.04	9.28E+05	0.00 S	1.00	0.97	-3.0%	
PCB-5 23'-DiCB	17.35	9.94E+05	0.00 S	1.00	1.03	3.2%	
PCB-8 24'-DiCB	17.47	1.02E+06	0.00 S	1.03	1.07	3.2%	
PCB-14 35'-DiCB	19.04	1.10E+06	0.00 S	1.18	1.14	-3.4%	
PCB-11 33'-DiCB	19.83	9.44E+05	0.00 S	1.01	0.98	-2.8%	
PCB-13/12 34'/34'-DiCB	20.12	1.69E+06	0.00 S	0.99	0.88	-11.2%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-30/18 246'/22'5'-TrCB	19.54	1.37E+06	1.04 Y	1.54	1.49	-3.2%	
PCB-17 22'4'-TrCB	19.95	5.65E+05	1.04 Y	1.31	1.23	-6.1%	
PCB-27 23'6'-TrCB	20.14	8.14E+05	1.08 Y	1.82	1.77	-2.9%	
PCB-24 236'-TrCB	20.27	7.72E+05	1.06 Y	1.72	1.67	-2.9%	
PCB-16 22'3'-TrCB	20.37	4.55E+05	1.10 Y	1.01	0.99	-2.0%	
PCB-32 24'6'-TrCB	20.86	8.78E+05	1.08 Y	1.92	1.90	-0.8%	
PCB-34 23'5'-TrCB	22.01	7.89E+05	1.08 Y	1.14	1.11	-2.3%	
PCB-23 235'-TrCB	22.16	8.53E+05	0.94 Y	1.16	1.20	3.8%	
PCB-26/29 23'5'/245'-TrCB	22.45	1.63E+06	1.01 Y	1.17	1.15	-2.1%	
PCB-25 23'4'-TrCB	22.65	8.01E+05	0.97 Y	1.16	1.13	-2.7%	
PCB-31 24'5'-TrCB	22.92	8.89E+05	1.01 Y	1.23	1.25	2.0%	
PCB-28/20 244'/233'-TrCB	23.21	1.61E+06	1.02 Y	1.13	1.13	-0.1%	
PCB-21/33 234'/23'4'-TrCB	23.39	1.63E+06	0.98 Y	1.17	1.15	-2.4%	
PCB-22 234'-TrCB	23.77	7.71E+05	1.00 Y	1.08	1.08	0.4%	
PCB-36 33'5'-TrCB	25.16	8.01E+05	1.00 Y	1.17	1.13	-3.7%	
PCB-39 34'5'-TrCB	25.48	8.42E+05	1.02 Y	1.21	1.18	-2.3%	
PCB-38 345'-TrCB	26.02	7.61E+05	0.93 Y	1.10	1.07	-3.2%	
PCB-35 33'4'-TrCB	26.41	7.19E+05	1.01 Y	1.04	1.01	-2.8%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	1.02E+06	0.81 Y	0.88	0.89	1.3%	
PCB-45 22'36'-TeCB	23.29	4.52E+05	0.79 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.37	4.59E+05	0.83 Y	0.86	0.80	-7.3%	
PCB-46 22'36'-TeCB	23.57	4.01E+05	0.83 Y	0.70	0.70	-0.4%	
PCB-52 22'55'-TeCB	24.83	4.90E+05	0.76 Y	0.84	0.85	0.7%	
PCB-73 23'5'6'-TeCB	24.96	6.54E+05	0.81 Y	1.11	1.13	2.0%	
PCB-43 22'35'-TeCB	25.06	3.93E+05	0.85 Y	0.71	0.68	-4.1%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	1.15E+06	0.76 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	4.76E+05	0.82 Y	0.84	0.83	-1.5%	
PCB-44/47/65 ...-TeCB	25.76	1.54E+06	0.78 Y	0.90	0.89	-1.8%	
PCB-59/62/75 ...-TeCB	26.03	1.95E+06	0.80 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.20	4.38E+05	0.81 Y	0.76	0.76	-0.5%	
PCB-41 22'34'-TeCB	26.54	3.93E+05	0.87 Y	0.69	0.68	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	9.69E+05	0.82 Y	0.86	0.84	-2.2%	
PCB-64 234'6'-TeCB	26.83	6.74E+05	0.82 Y	1.22	1.17	-4.3%	
PCB-72 23'55'-TeCB	27.55	6.87E+05	0.78 Y	1.21	1.19	-1.5%	
PCB-68 23'45'-TeCB	27.80	7.26E+05	0.84 Y	1.28	1.26	-1.4%	
PCB-57 233'5'-TeCB	28.18	6.81E+05	0.73 Y	1.16	1.18	1.5%	
PCB-58 233'5'-TeCB	28.38	6.76E+05	0.76 Y	1.18	1.17	-0.6%	
PCB-67 23'45'-TeCB	28.54	7.09E+05	0.78 Y	1.26	1.23	-2.3%	
PCB-63 234'5'-TeCB	28.77	7.50E+05	0.82 Y	1.30	1.30	0.2%	
PCB-61/70/74/76 ...-TeCB	29.06	2.77E+06	0.77 Y	1.20	1.20	0.2%	
PCB-66 23'44'-TeCB	29.34	6.11E+05	0.79 Y	1.10	1.06	-3.9%	
PCB-55 233'4'-TeCB	29.49	6.26E+05	0.78 Y	1.12	1.09	-3.1%	
PCB-56 233'4'-TeCB	29.93	6.53E+05	0.82 Y	1.11	1.13	2.0%	
PCB-60 2344'-TeCB	30.12	6.55E+05	0.79 Y	1.14	1.13	0.0%	
PCB-80 33'55'-TeCB	30.44	7.47E+05	0.82 Y	1.31	1.30	-1.4%	
PCB-79 33'45'-TeCB	31.77	7.25E+05	0.81 Y	1.31	1.26	-3.8%	
PCB-78 33'45'-TeCB	32.26	6.00E+05	0.82 Y	1.06	1.04	-2.0%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-96 22'366'-PeCB	26.03	3.51E+05	0.75 N	1.23	1.12	-8.6%	
PCB-103 22'45'6'-PeCB	27.72	4.14E+05	0.64 Y	0.93	0.91	-2.6%	
PCB-94 22'356'-PeCB	27.91	3.59E+05	0.70 Y	0.80	0.79	-1.5%	
PCB-95 22'35'6'-PeCB	28.29	4.07E+05	0.58 Y	0.87	0.89	3.0%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	7.64E+05	0.61 Y	0.86	0.84	-3.1%	
PCB-102 22'456'-PeCB	28.62	4.42E+05	0.64 Y	0.97	0.97	0.0%	
PCB-98 22'34'6'-PeCB	28.70	3.31E+05	0.63 Y	0.76	0.73	-4.3%	
PCB-88 22'346'-PeCB	29.00	4.40E+05	0.66 Y	0.80	0.96	20.8%	
PCB-91 22'34'6'-PeCB	29.06	3.45E+05	0.56 Y	0.94	0.76	-19.9%	
PCB-84 22'33'6'-PeCB	29.25	3.22E+05	0.60 Y	0.72	0.71	-1.3%	
PCB-89 22'346'-PeCB	29.67	3.31E+05	0.70 Y	0.76	0.73	-4.9%	
PCB-121 23'45'6'-PeCB	30.01	5.39E+05	0.64 Y	1.20	1.18	-1.7%	
PCB-92 22'355'-PeCB	30.33	3.73E+05	0.62 Y	0.82	0.82	-0.4%	
PCB-113/90/101 ...-PeCB	30.82	1.35E+06	0.62 Y	0.99	0.98	-0.3%	
PCB-83 22'33'5'-PeCB	31.26	3.50E+05	0.64 Y	0.71	0.77	7.3%	
PCB-99 22'44'5'-PeCB	31.36	4.00E+05	0.61 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.46	5.12E+05	0.65 Y	1.17	1.12	-4.0%	
PCB-108/119/86/97/125...-PeCB	31.80	2.69E+06	0.63 Y	0.98	0.98	0.2%	
PCB-117 234'56'-PeCB	32.33	4.64E+05	0.55 Y	1.14	1.02	-10.6%	
PCB-116/85 23456/22'344'-PeCB	32.43	9.28E+05	0.58 Y	0.94	1.02	8.1%	
PCB-110 233'4'6'-PeCB	32.54	4.96E+05	0.62 Y	1.12	1.09	-2.7%	



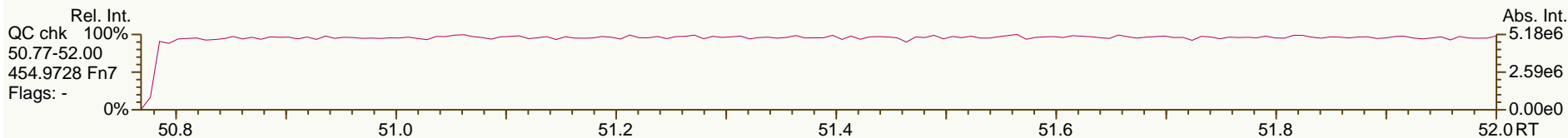
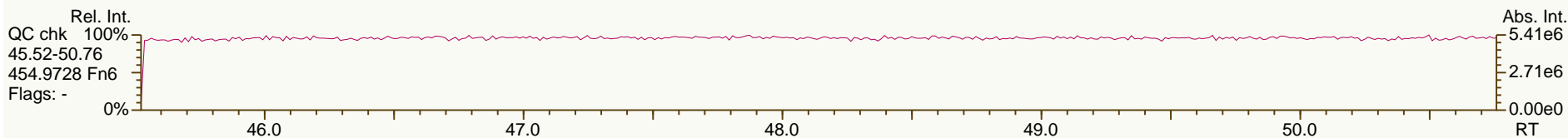
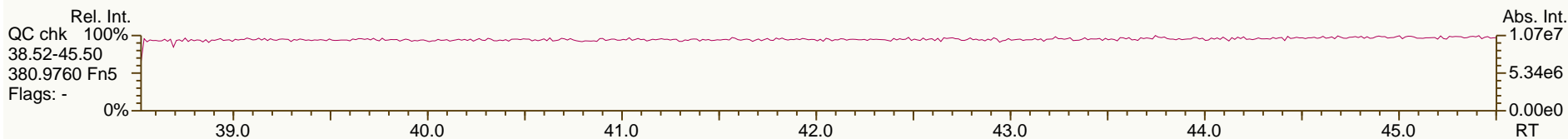
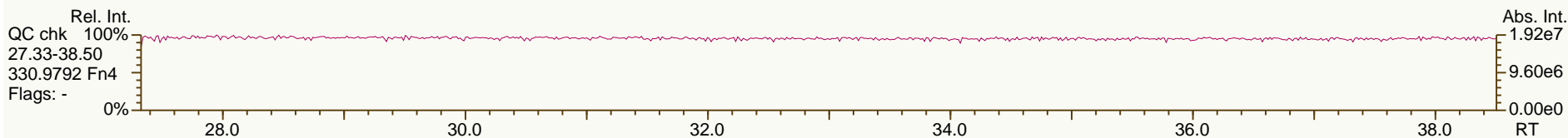
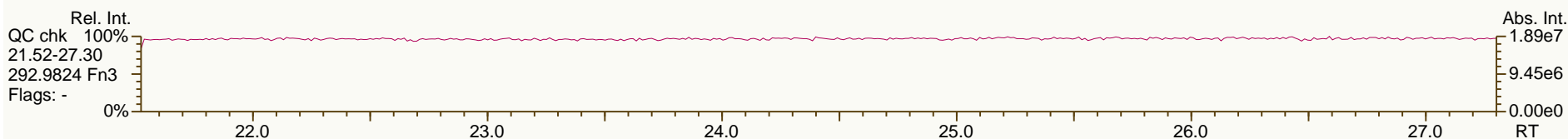
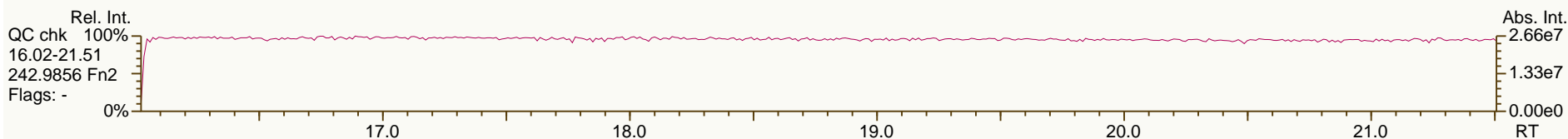
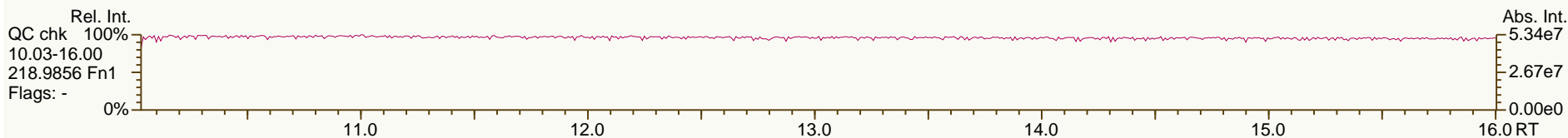
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	5.39E+05	0.59 Y	1.16	1.18	1.18	
PCB-82 22'33'4-PeCB	32.83	3.15E+05	0.59 Y	0.70	0.69	-1.1%	
PCB-111 233'55'-PeCB	33.14	5.61E+05	0.65 Y	1.22	1.23	0.6%	
PCB-120 23'455'-PeCB	33.54	5.37E+05	0.66 Y	1.21	1.18	-2.8%	
PCB-107/124 ...-PeCB	34.51	9.78E+05	0.64 Y	1.10	1.07	-2.4%	
PCB-109 233'46-PeCB	34.72	5.73E+05	0.63 Y	1.25	1.26	0.2%	
PCB-106 233'45-PeCB	34.94	5.10E+05	0.69 Y	1.11	1.12	1.0%	
PCB-122 233'4'5'-PeCB	35.40	4.64E+05	0.65 Y	0.99	0.97	-2.0%	
PCB-127 33'455'-PeCB	37.35	5.10E+05	0.62 Y	1.10	1.09	-0.8%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-152 22'3566'-HxCB	30.84	4.93E+05	1.27 Y	1.17	1.16	-1.3%	
PCB-150 22'34'66'-HxCB	30.98	5.01E+05	1.36 Y	1.18	1.18	0.1%	
PCB-136 22'33'66'-HxCB	31.29	4.28E+05	1.35 Y	1.07	1.01	-5.7%	
PCB-145 22'3466'-HxCB	31.56	4.79E+05	1.26 Y	1.11	1.13	0.9%	
PCB-148 22'34'56'-HxCB	32.83	3.33E+05	1.20 Y	1.18	1.14	-3.7%	
PCB-151/135 ...-HxCB	33.35	6.47E+05	1.21 Y	1.14	1.11	-2.9%	
PCB-154 22'44'56'-HxCB	33.56	4.03E+05	1.25 Y	1.34	1.38	2.8%	
PCB-144 22'345'6-HxCB	33.83	3.56E+05	1.23 Y	1.18	1.22	3.1%	
PCB-147/149 ...-HxCB	34.13	6.56E+05	1.34 Y	1.18	1.12	-4.6%	
PCB-134 22'33'56-HxCB	34.30	2.84E+05	1.23 Y	0.92	0.97	5.0%	
PCB-143 22'3456'-HxCB	34.39	3.14E+05	1.30 Y	1.13	1.07	-4.7%	
PCB-139/140 ...-HxCB	34.65	7.00E+05	1.27 Y	1.21	1.20	-0.6%	
PCB-131 22'33'46-HxCB	34.82	2.97E+05	1.27 Y	1.03	1.02	-0.8%	
PCB-142 22'3456-HxCB	34.97	2.79E+05	1.25 Y	0.99	0.96	-3.4%	
PCB-132 22'33'46'-HxCB	35.21	3.02E+05	1.27 Y	1.03	1.03	0.2%	
PCB-133 22'33'55'-HxCB	35.61	3.31E+05	1.25 Y	1.13	1.13	0.1%	
PCB-165 233'55'6-HxCB	35.95	4.11E+05	1.27 Y	1.41	1.41	-0.2%	
PCB-146 22'34'55'-HxCB	36.16	3.49E+05	1.21 Y	1.20	1.19	-0.7%	
PCB-161 233'45'6-HxCB	36.28	4.37E+05	1.25 Y	1.52	1.50	-1.6%	
PCB-153/168 ...-HxCB	36.72	8.08E+05	1.27 Y	1.46	1.38	-5.0%	
PCB-141 22'3455'-HxCB	36.86	3.22E+05	1.27 Y	1.09	1.10	1.3%	
PCB-130 22'33'45'-HxCB	37.20	2.84E+05	1.16 Y	0.97	0.97	0.0%	
PCB-137 22'344'5-HxCB	37.41	3.47E+05	1.24 Y	1.16	1.19	2.0%	
PCB-164 233'4'5'6-HxCB	37.49	3.94E+05	1.20 Y	1.50	1.35	-10.0%	
PCB-163/138/129 ...-HxCB	37.78	1.03E+06	1.26 Y	1.19	1.18	-1.1%	
PCB-160 233'456-HxCB	37.92	4.35E+05	1.23 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.10	4.94E+05	1.30 Y	1.66	1.69	1.8%	
PCB-128/166 ...-HxCB	38.84	7.41E+05	1.33 Y	0.90	0.86	-4.7%	
PCB-159 233'455'-HxCB	39.65	4.73E+05	1.12 Y	1.11	1.09	-1.9%	
PCB-162 233'4'55'-HxCB	39.89	4.43E+05	1.33 Y	1.07	1.03	-4.3%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-179 22'33'566'-HpCB	35.84	2.95E+05	1.06 Y	1.16	1.19	2.3%	
PCB-184 22'344'66'-HpCB	36.31	2.83E+05	0.94 Y	1.13	1.14	1.1%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.00E+05	1.06 Y	1.23	1.21	-1.8%	
PCB-186 22'34566'-HpCB	37.00	2.82E+05	1.10 Y	1.13	1.14	1.0%	
PCB-178 22'33'55'6'-HpCB	38.13	2.19E+05	1.14 Y	0.84	0.88	4.6%	
PCB-175 22'33'45'6'-HpCB	38.68	2.90E+05	1.08 Y	1.07	1.02	-4.9%	
PCB-187 22'34'55'6'-HpCB	38.91	3.08E+05	1.11 Y	1.14	1.08	-4.8%	
PCB-182 22'344'56'-HpCB	39.09	3.10E+05	1.13 Y	1.18	1.09	-7.2%	
PCB-183 22'344'5'6'-HpCB	39.43	3.29E+05	1.06 Y	1.20	1.16	-4.0%	
PCB-185 22'3455'6'-HpCB	39.52	2.70E+05	1.04 Y	1.06	0.95	-10.4%	
PCB-174 22'33'456'-HpCB	39.63	2.63E+05	1.16 Y	0.99	0.93	-6.3%	
PCB-177 22'33'45'6'-HpCB	40.00	2.64E+05	1.06 Y	0.95	0.93	-2.5%	
PCB-181 22'344'56'-HpCB	40.35	2.93E+05	1.17 Y	1.09	1.03	-5.4%	
PCB-171/173 ...-HpCB	40.54	5.11E+05	1.09 Y	0.95	0.90	-5.3%	
PCB-172 22'33'455'-HpCB	41.89	2.73E+05	1.07 Y	0.99	0.96	-3.0%	
PCB-192 233'455'6'-HpCB	42.14	3.33E+05	1.10 Y	1.29	1.17	-9.0%	
PCB-180/193 ...-HpCB	42.41	7.15E+05	1.02 Y	1.26	1.26	-0.4%	
PCB-191 233'44'5'6'-HpCB	42.74	3.99E+05	1.10 Y	1.40	1.41	0.7%	
PCB-170 22'33'44'5'-HpCB	43.51	2.56E+05	1.10 Y	1.14	1.09	-4.3%	
PCB-190 233'44'56'-HpCB	43.97	3.84E+05	1.02 Y	1.66	1.63	-1.8%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-201 22'33'45'66'-OcCB	40.90	2.87E+05	1.04 N	1.22	1.16	-4.7%	
PCB-204 22'344'566'-OcCB	41.48	2.72E+05	0.90 Y	1.12	1.10	-1.4%	
PCB-197 22'33'44'66'-OcCB	41.67	3.10E+05	0.94 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.76	2.54E+05	1.01 Y	1.11	1.03	-7.2%	
PCB-198/199 ...-OcCB	44.08	3.97E+05	1.02 Y	0.81	0.80	-0.6%	
PCB-196 22'33'44'56'-OcCB	44.66	2.07E+05	0.90 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.83	2.16E+05	0.86 Y	0.87	0.87	0.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.51E+05	0.94 Y	0.77	0.79	3.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.77E+05	0.96 Y	0.84	0.88	3.8%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-207 22'33'44'566'-NoCB	46.54	3.55E+05	0.76 Y	1.19	1.20	1.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

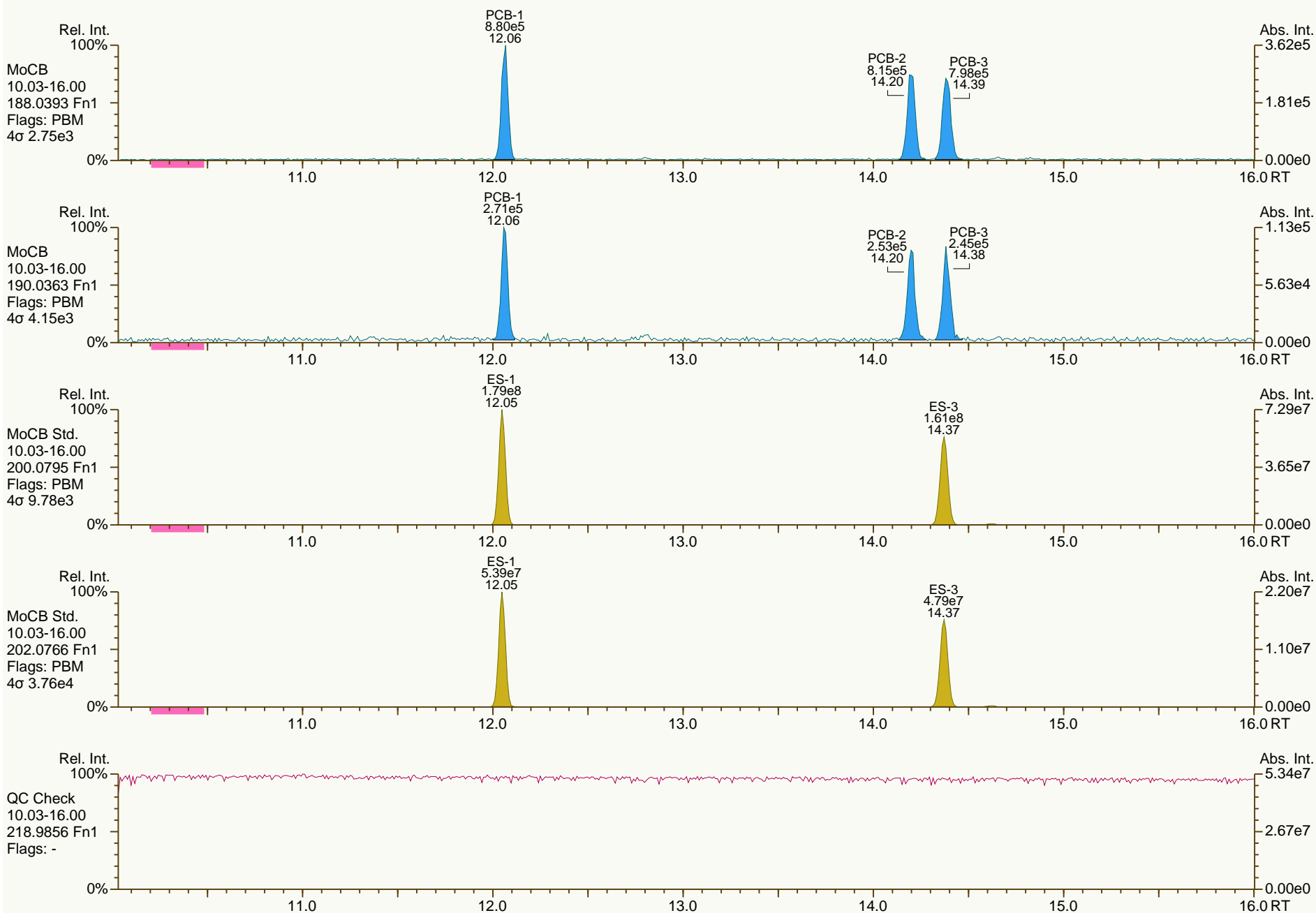
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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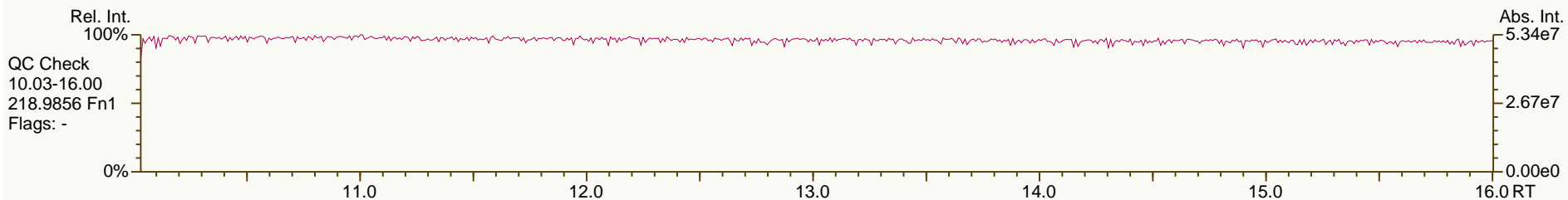
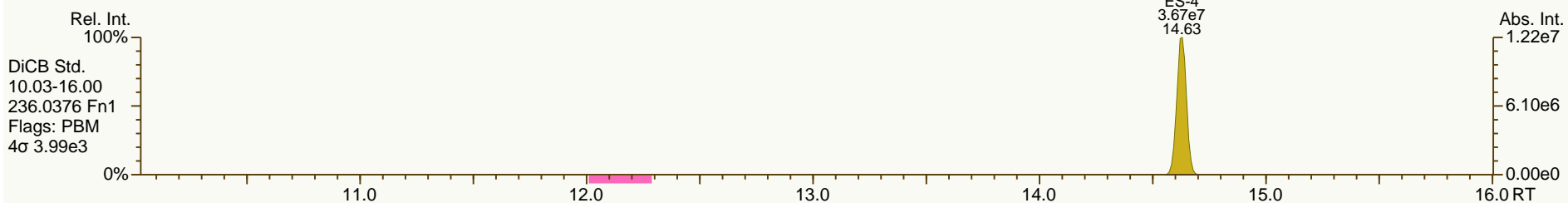
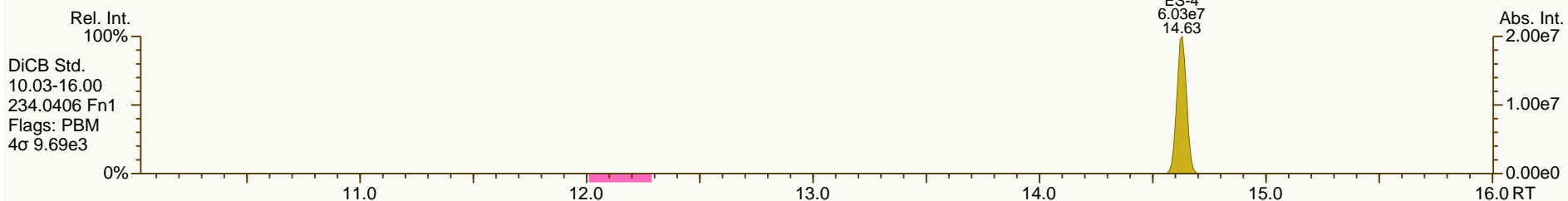
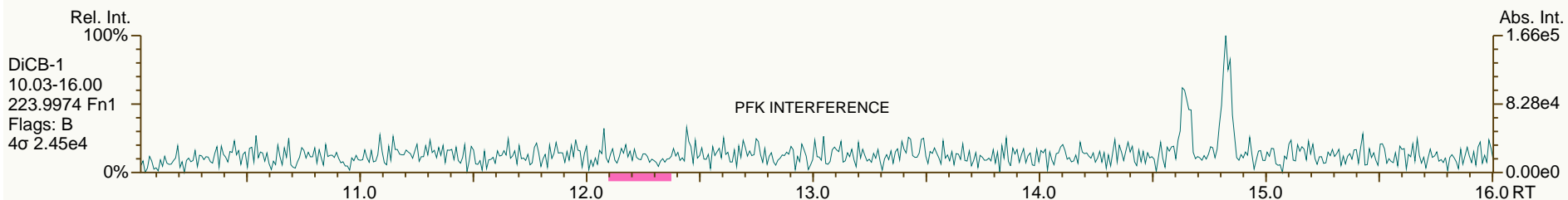
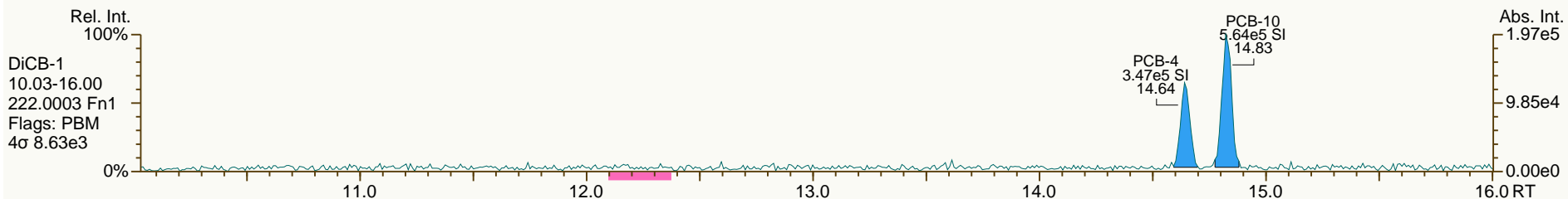
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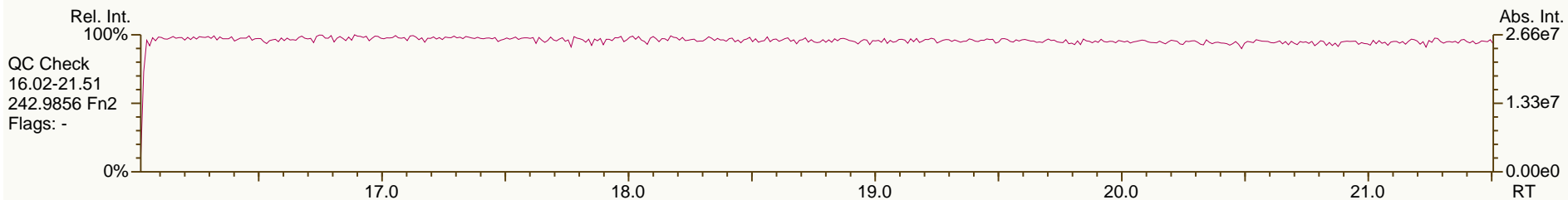
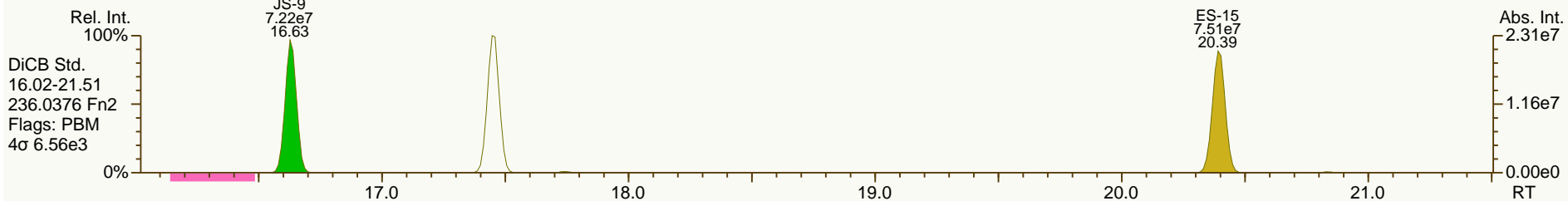
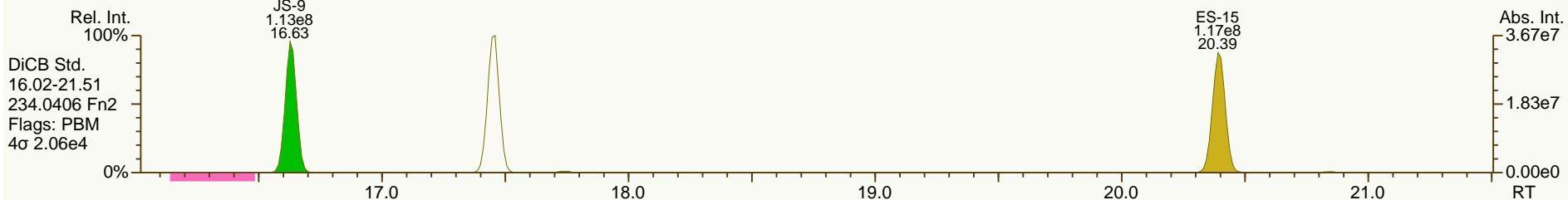
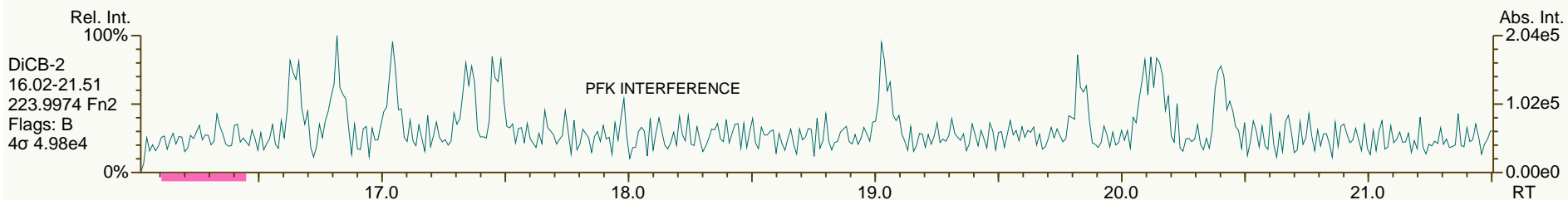
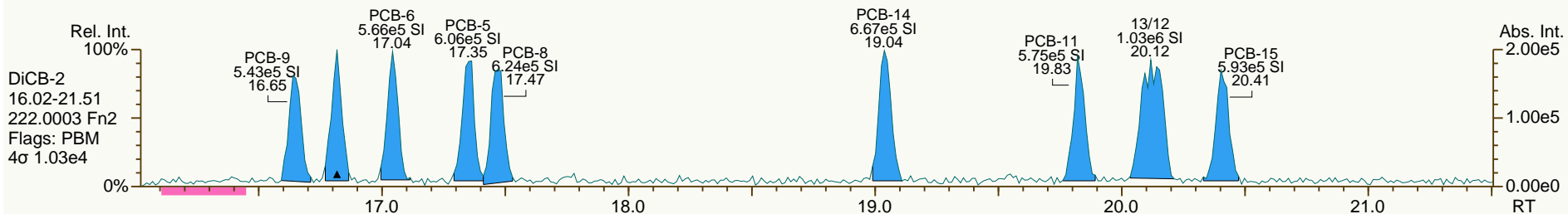
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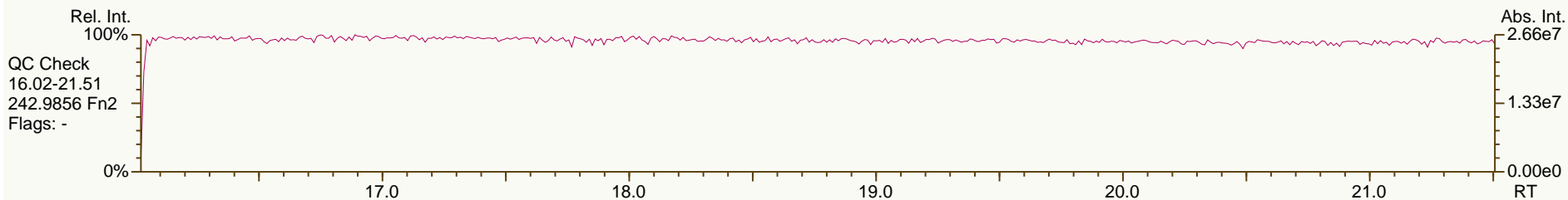
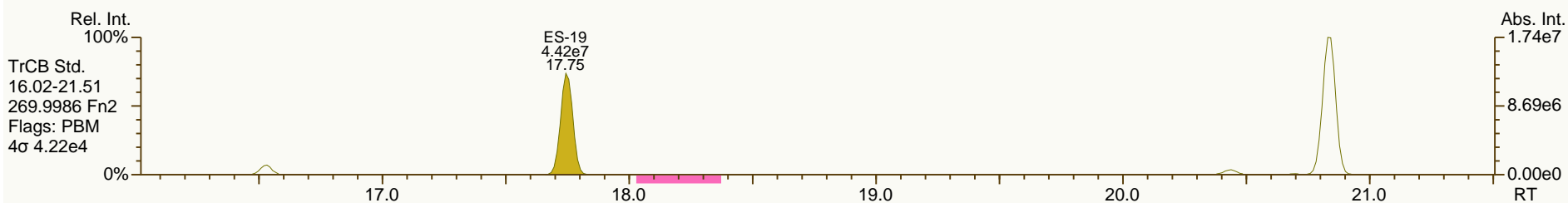
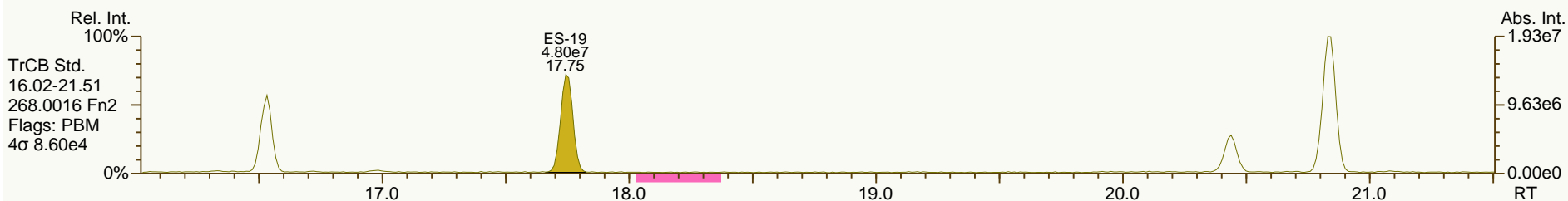
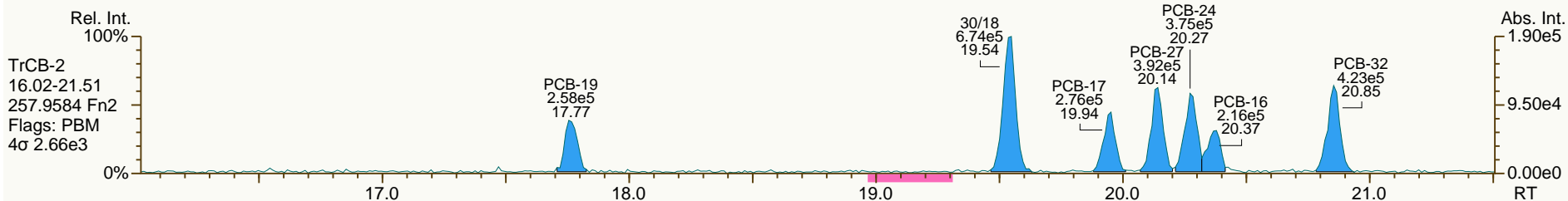
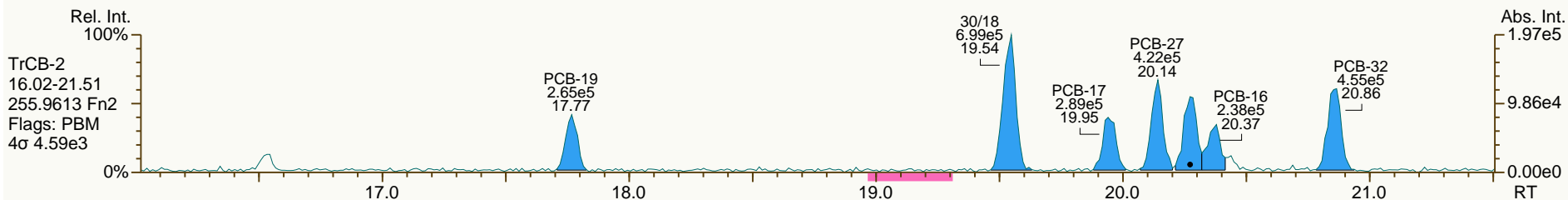
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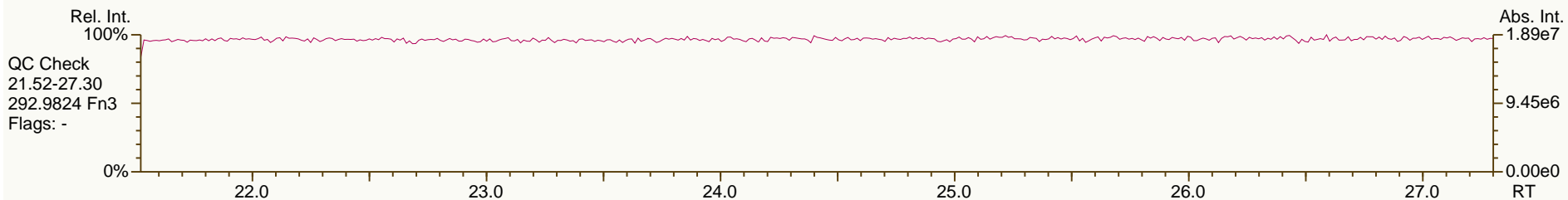
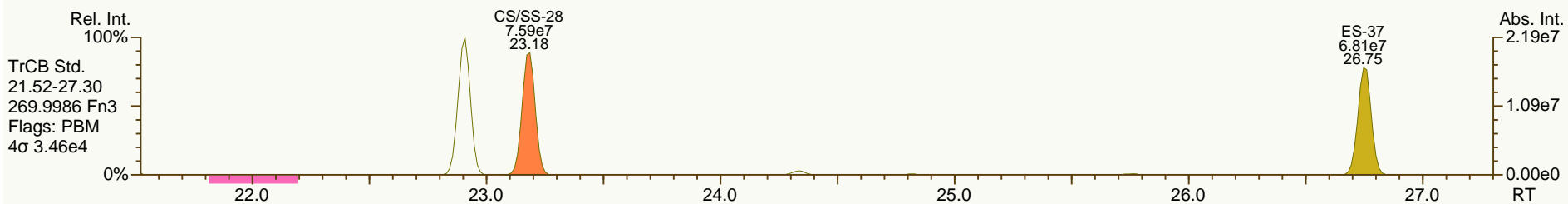
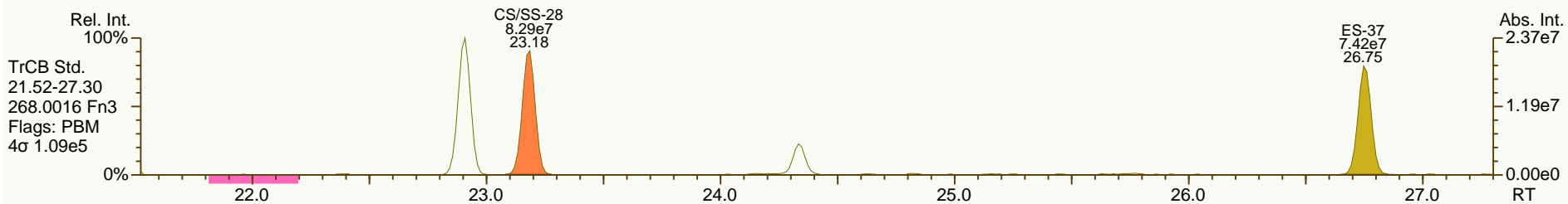
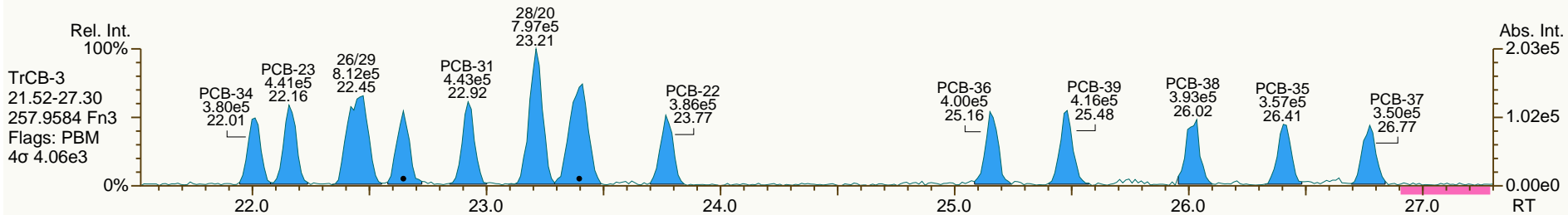
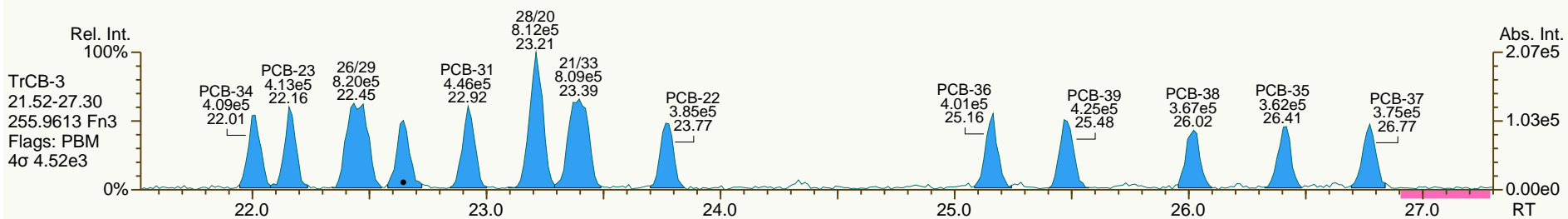
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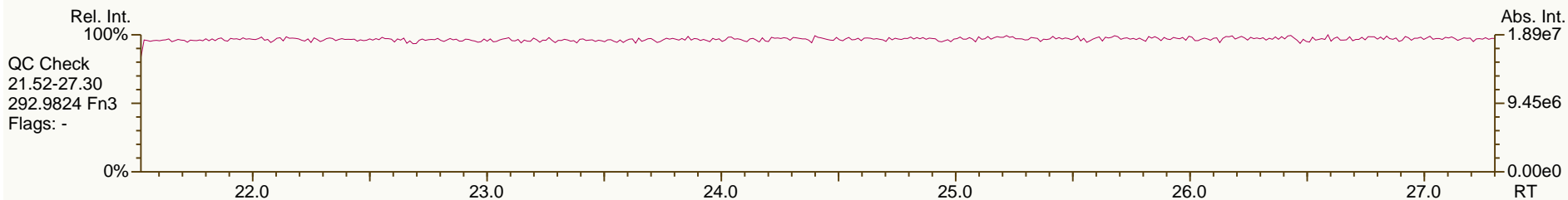
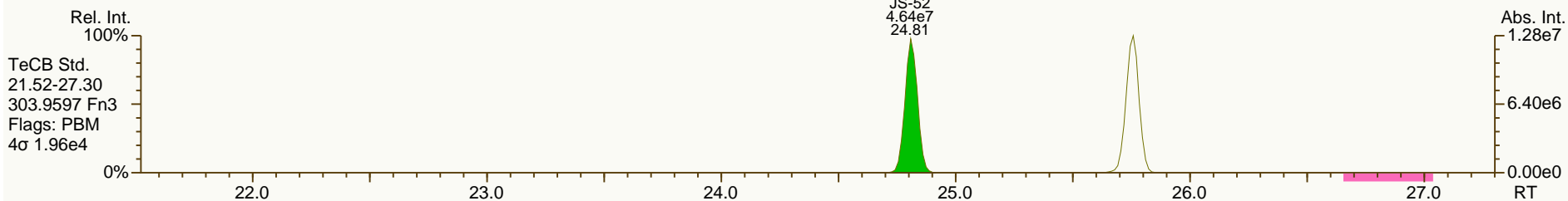
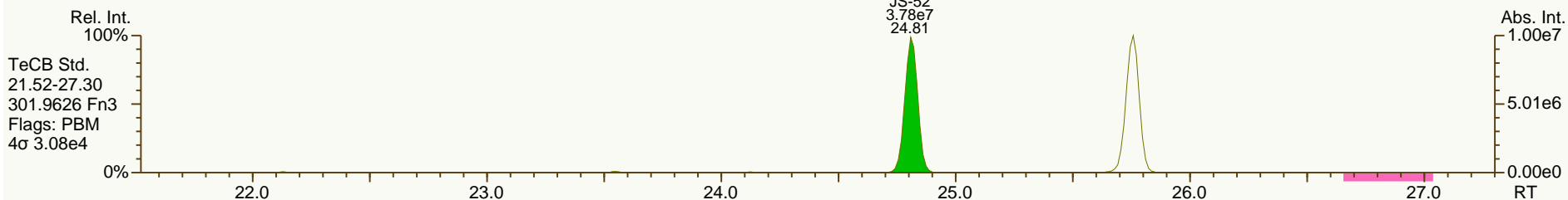
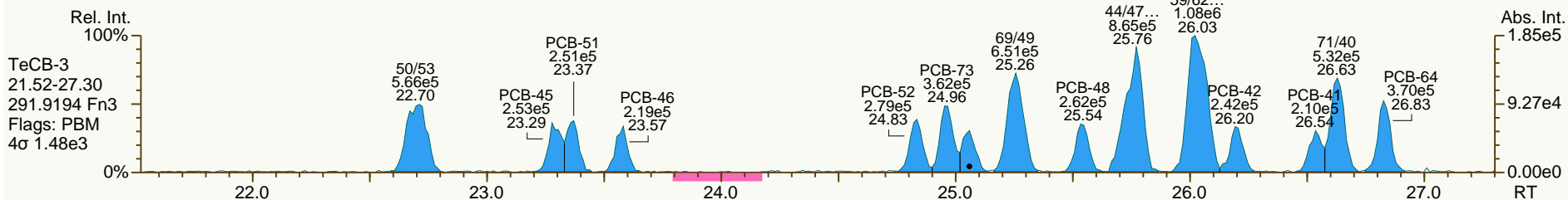
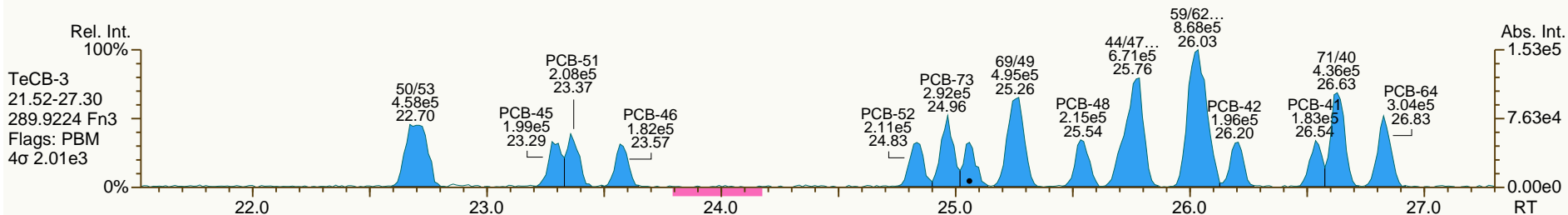
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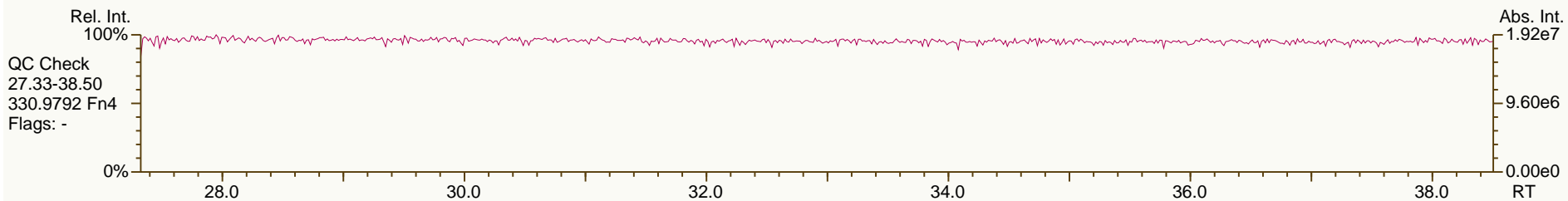
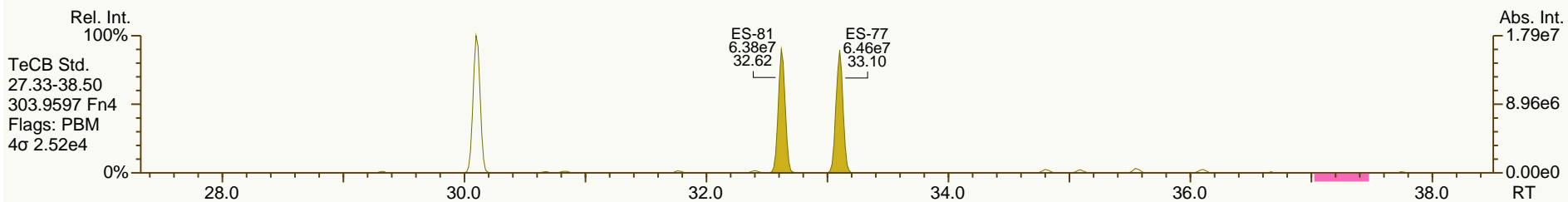
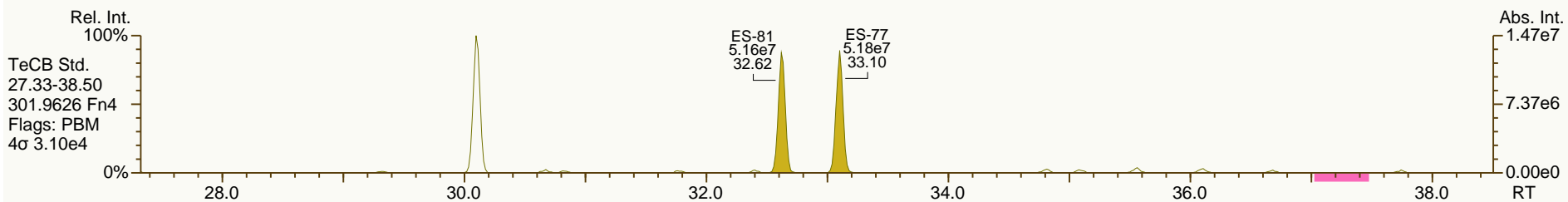
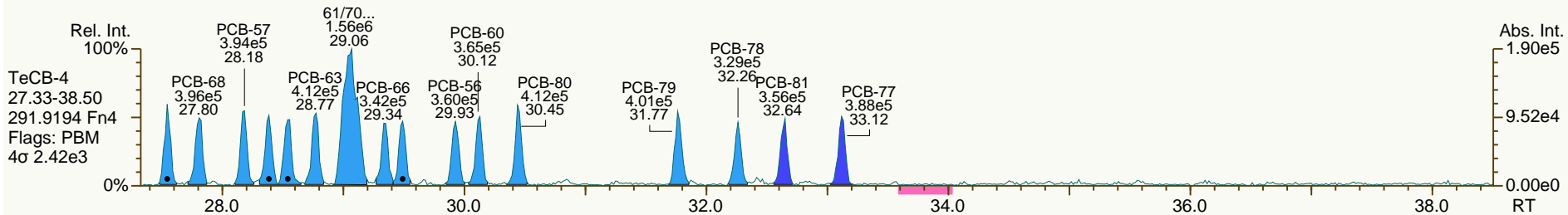
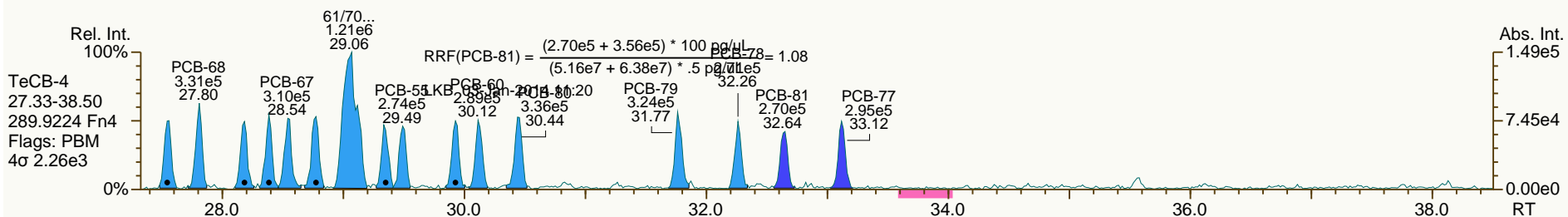
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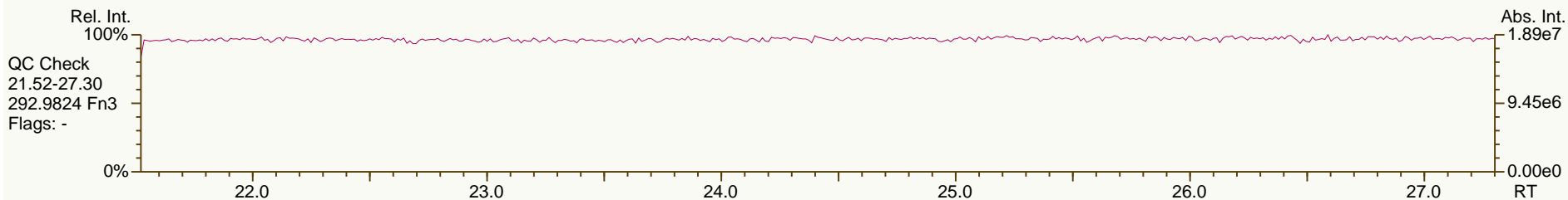
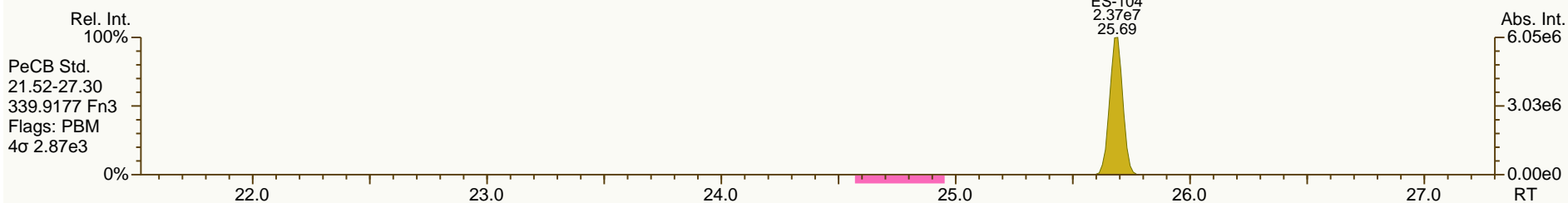
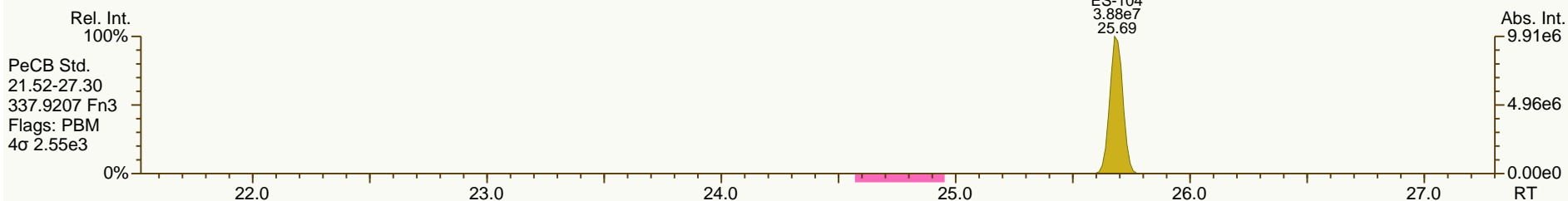
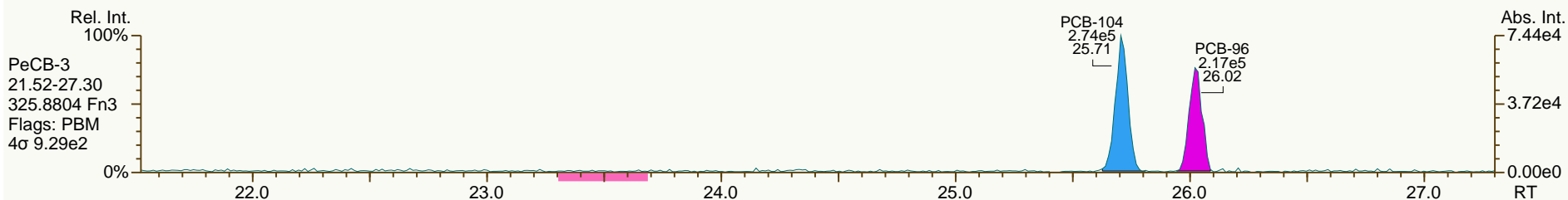
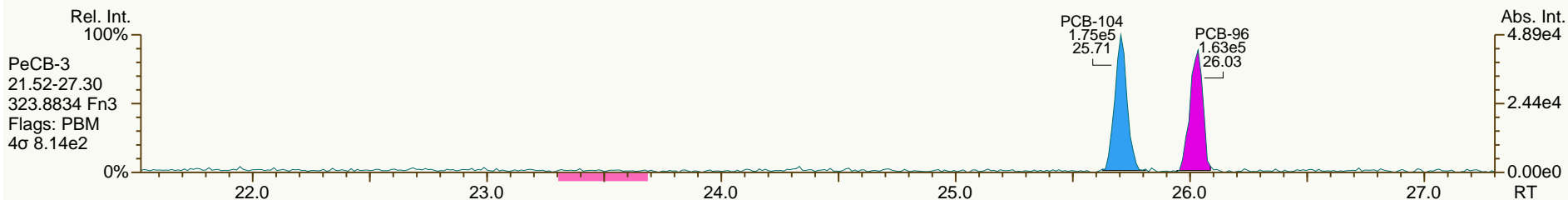
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SGS-AP ID: CS0\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-6  
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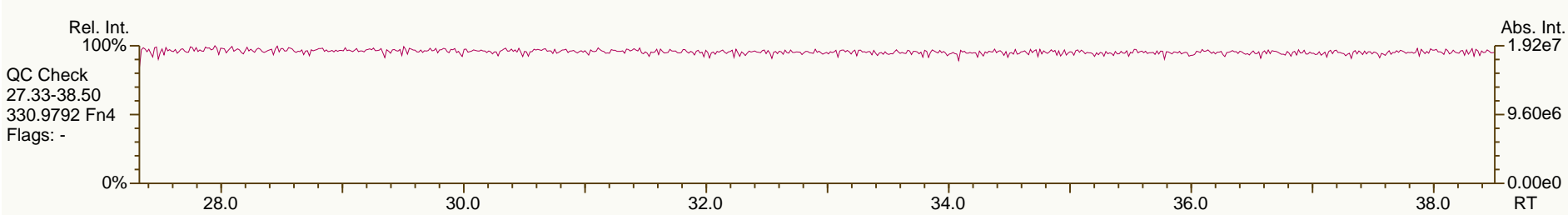
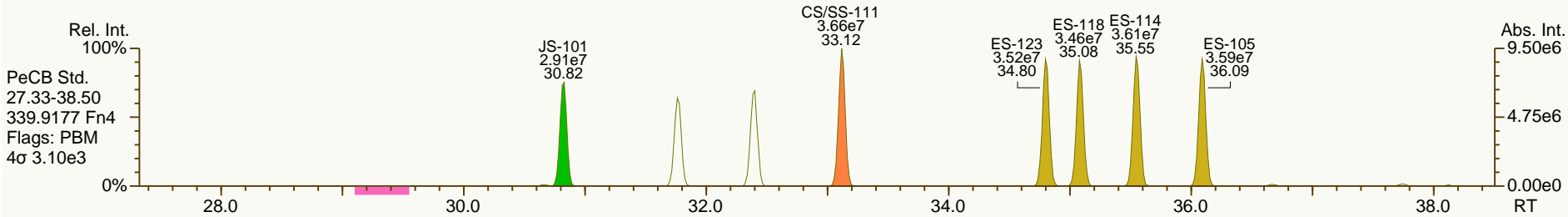
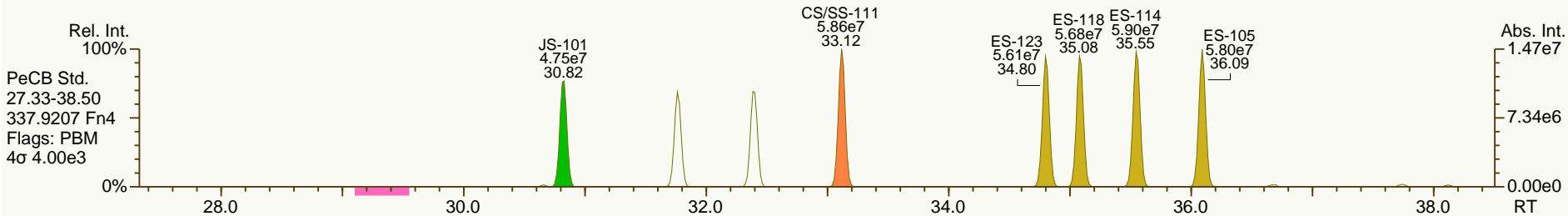
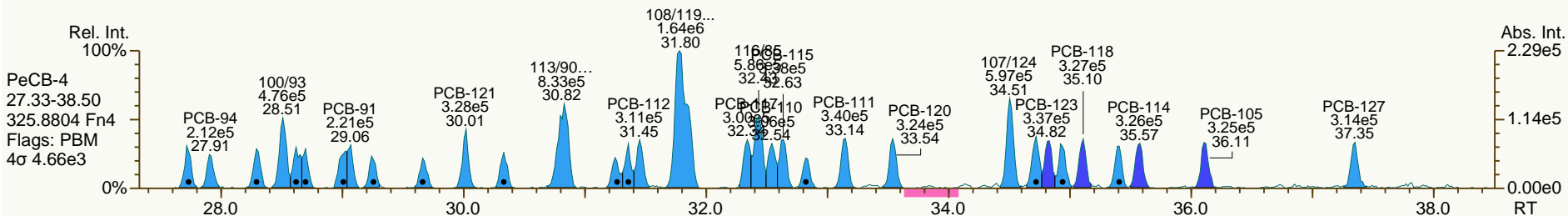
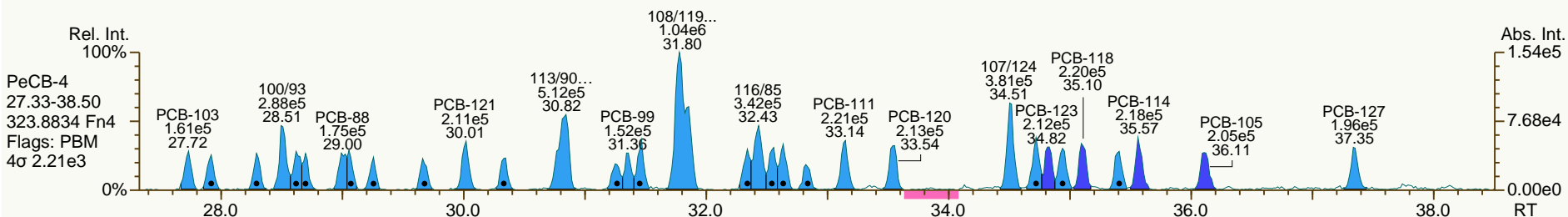
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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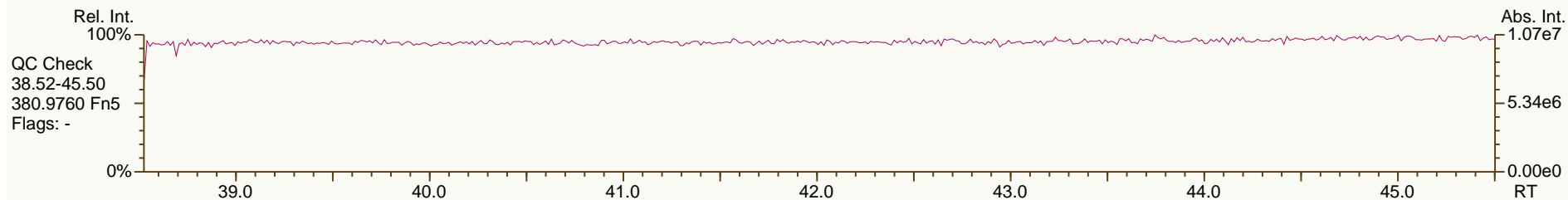
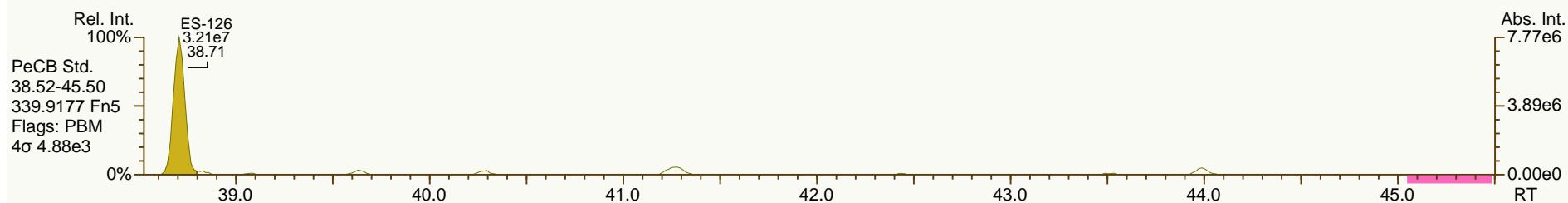
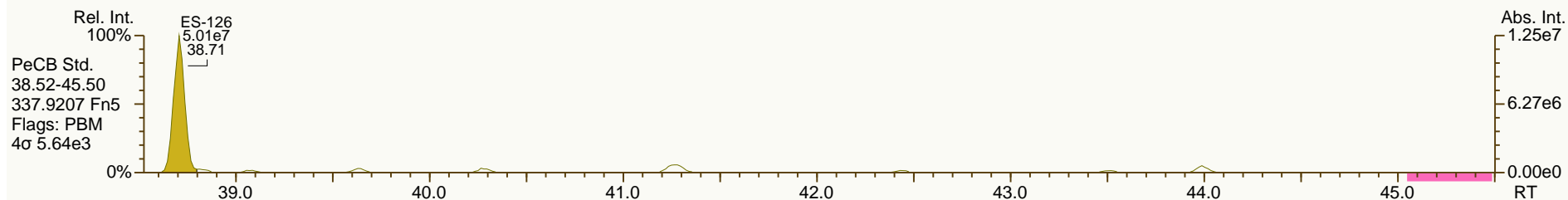
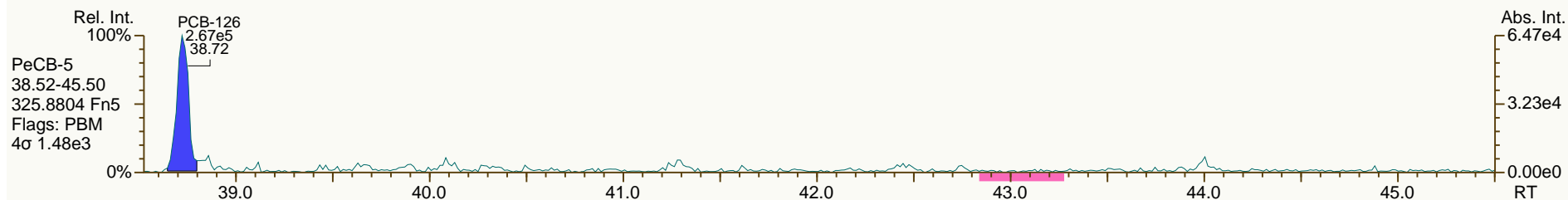
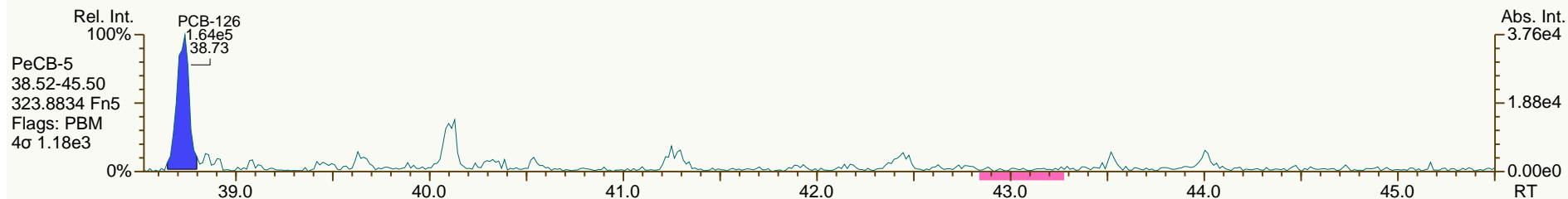
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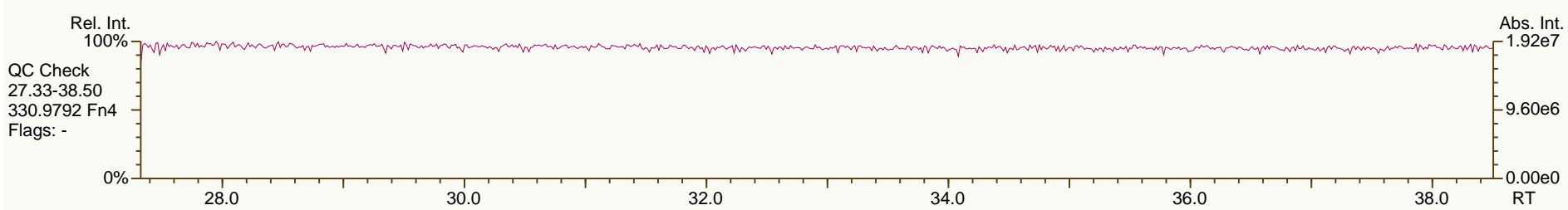
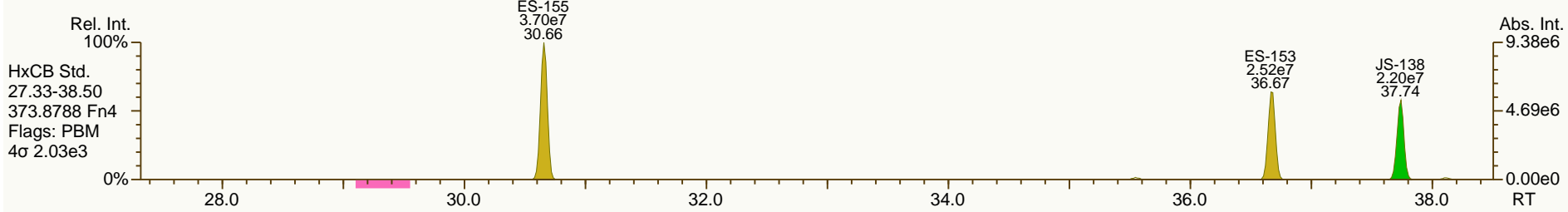
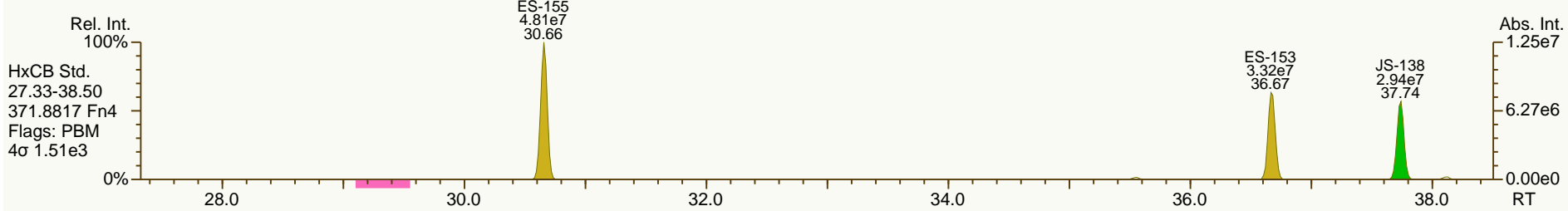
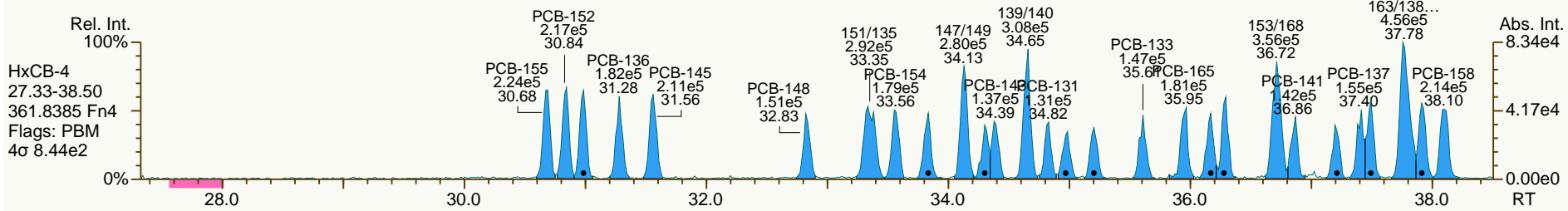
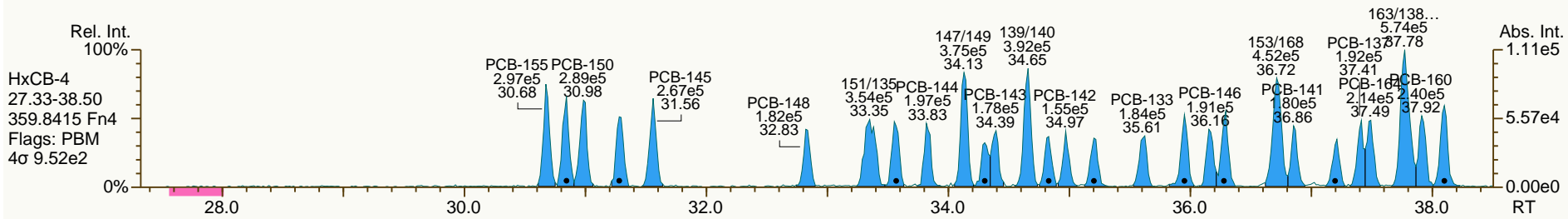
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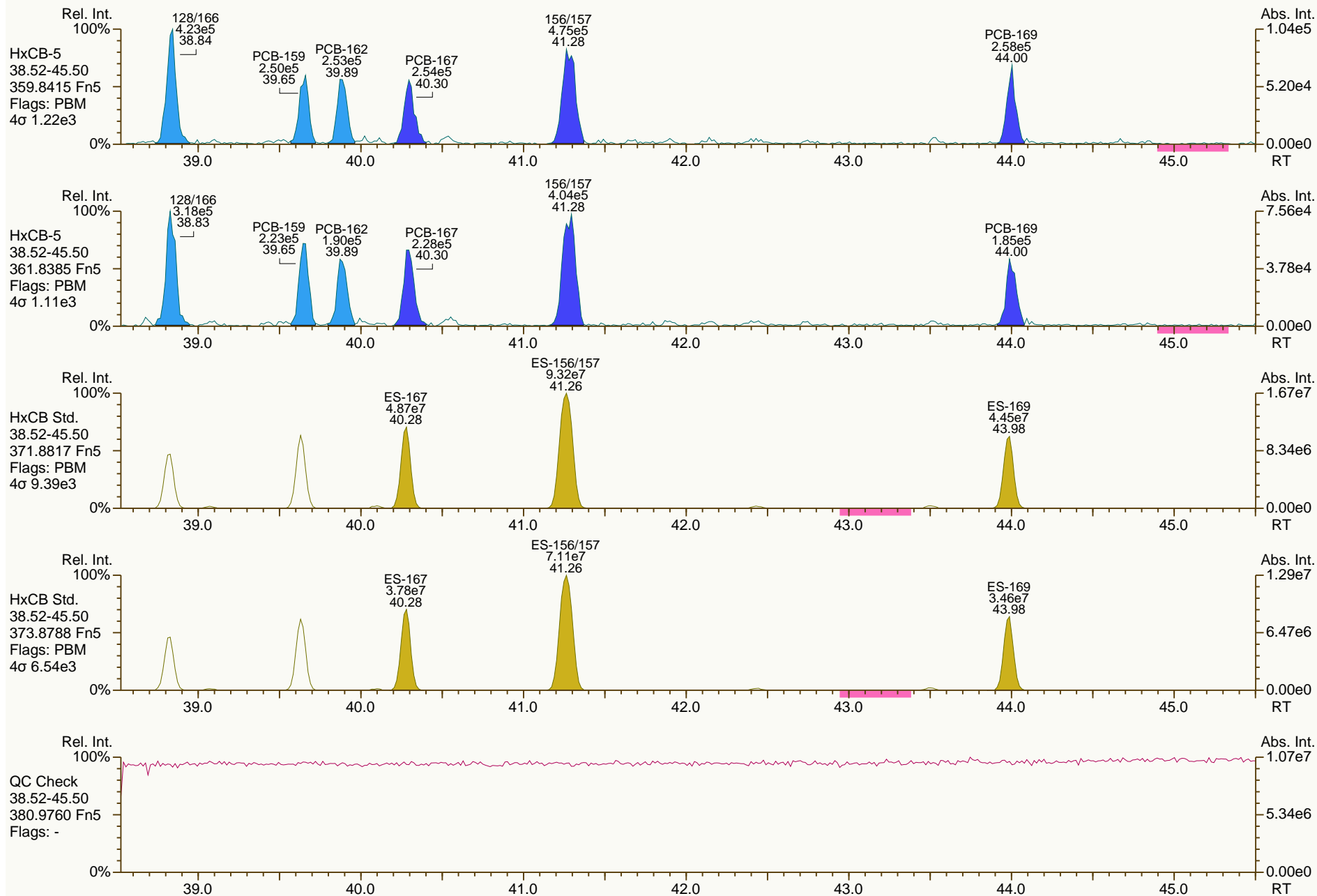
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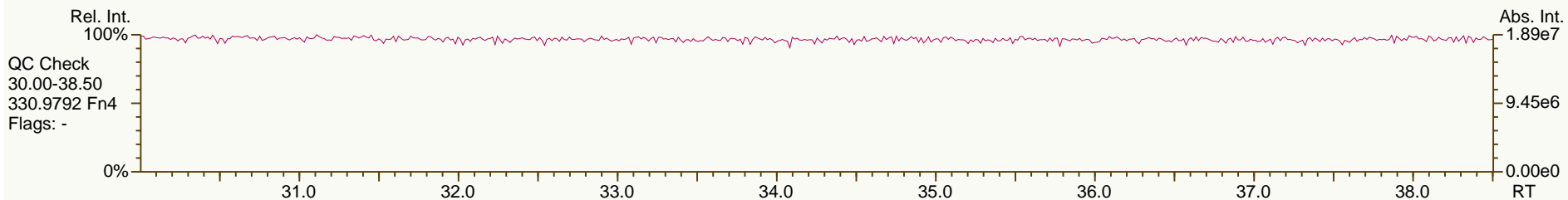
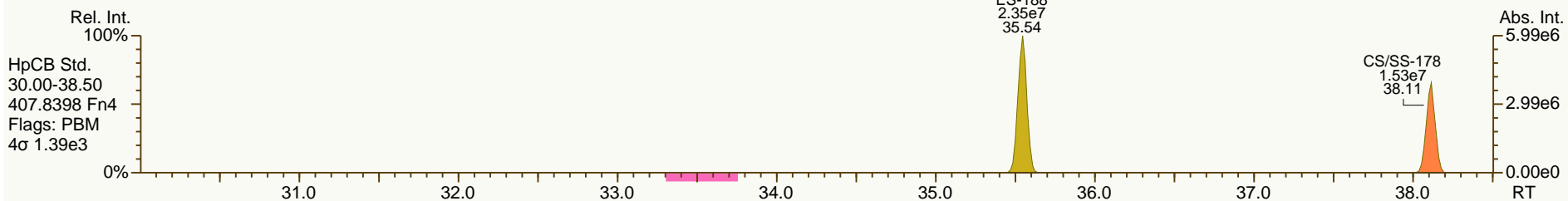
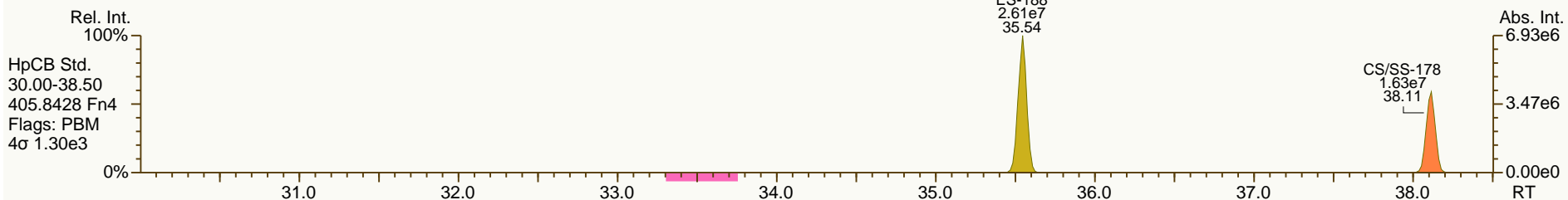
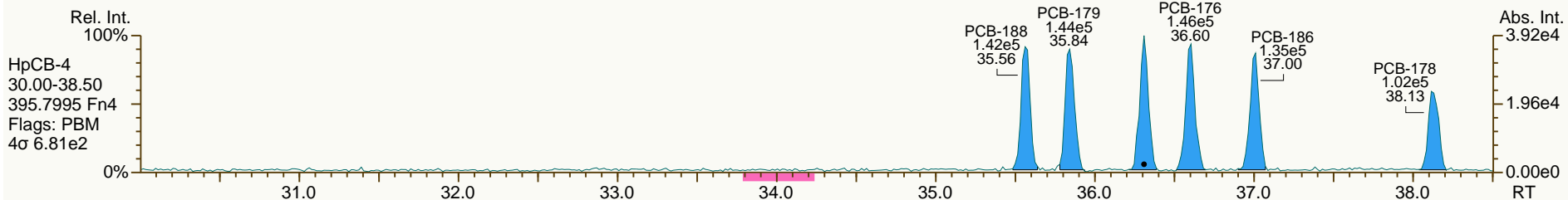
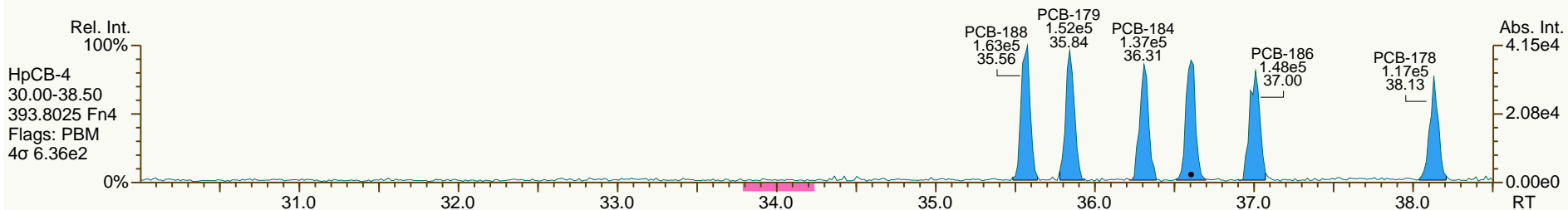




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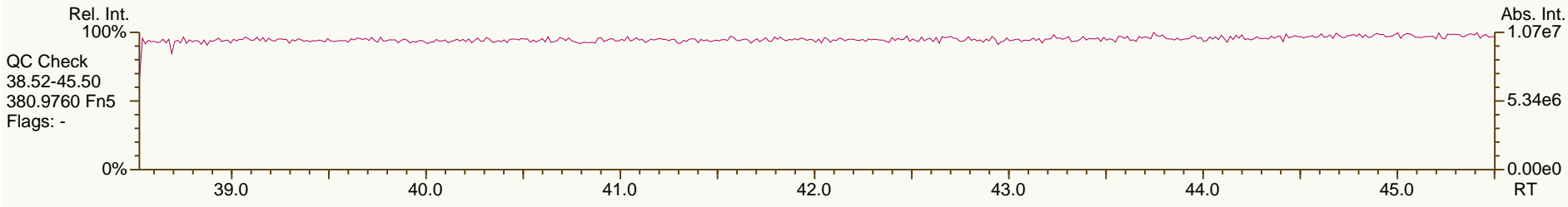
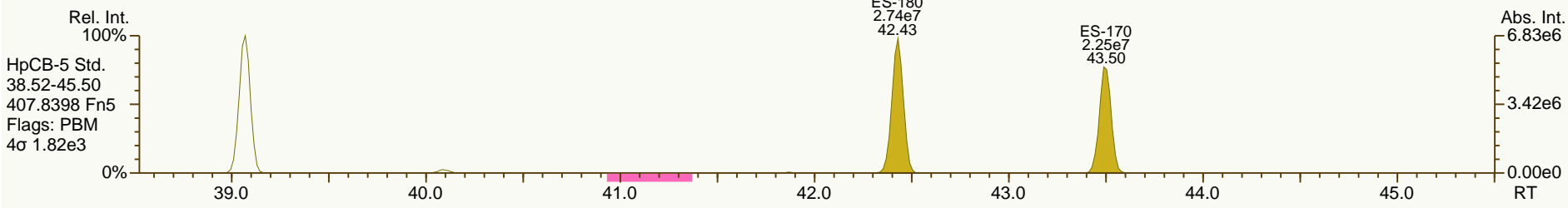
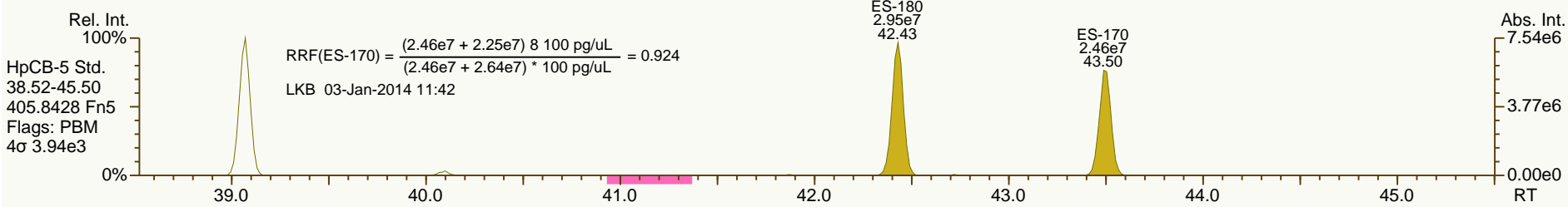
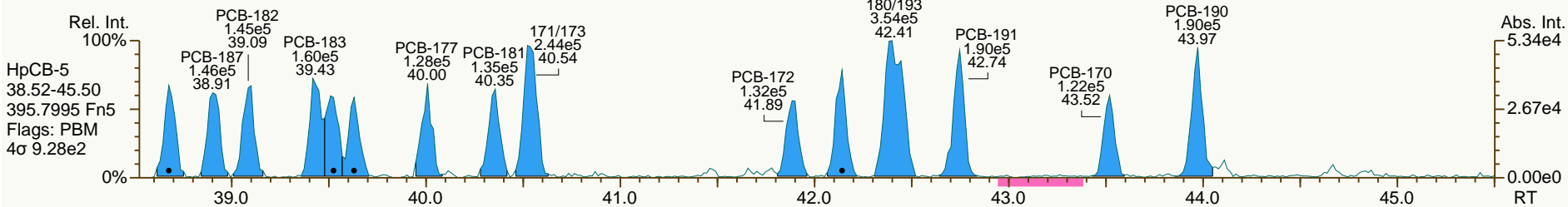
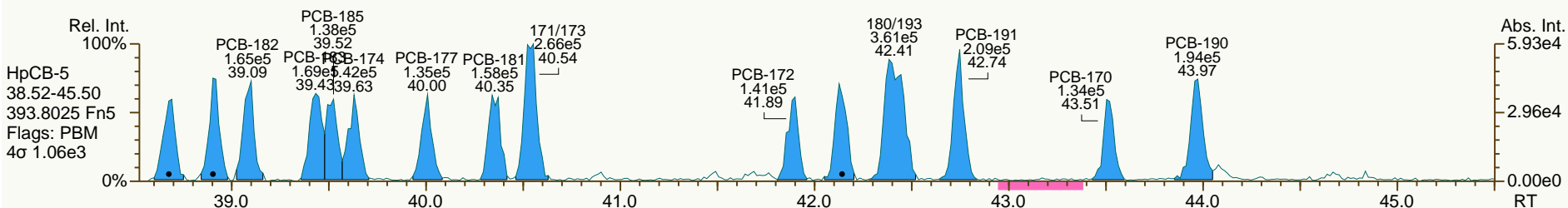
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 20-Dec-2013 14:56:33  
 User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 20-Dec-2013 14:56:33  
User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

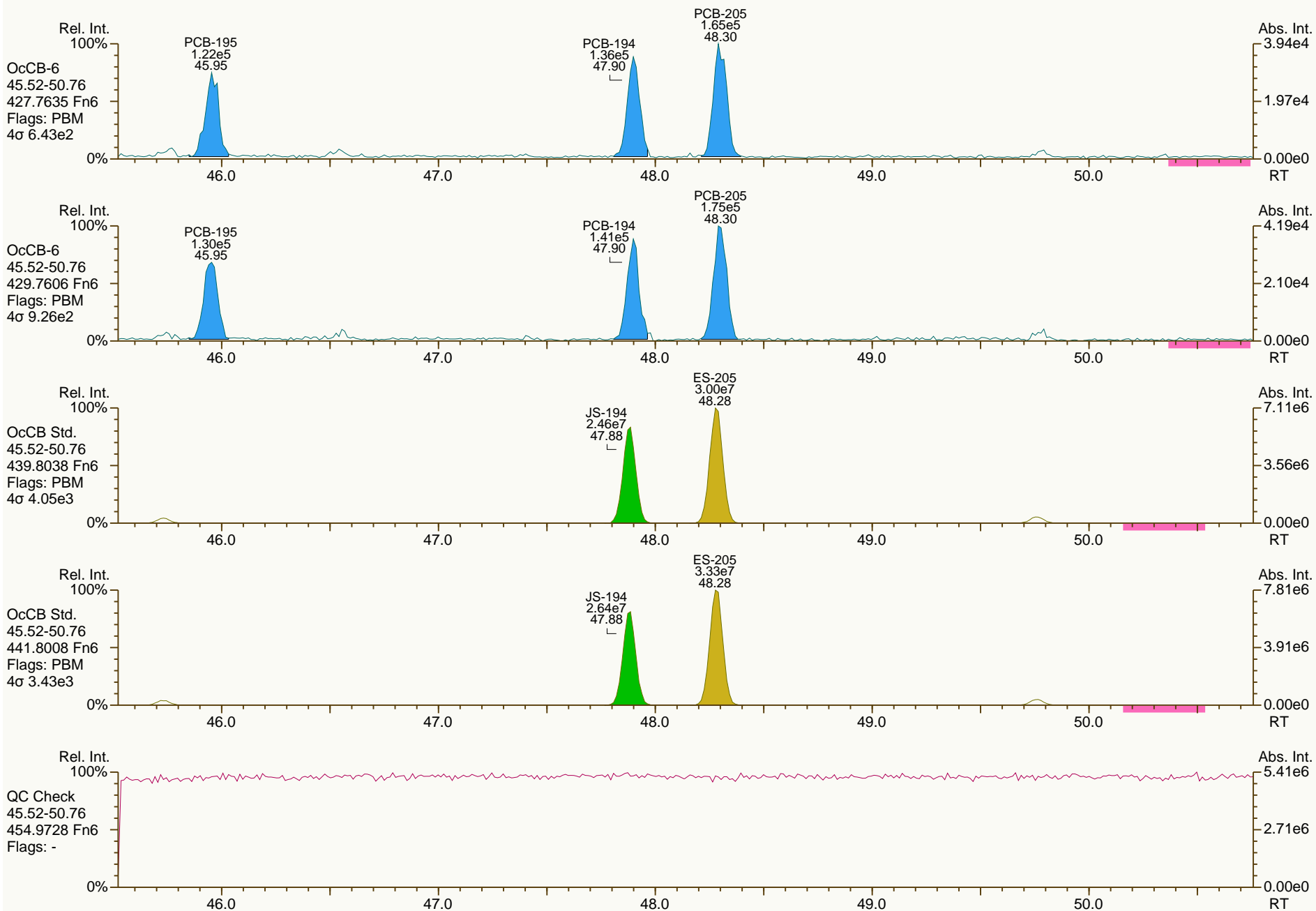
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 User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

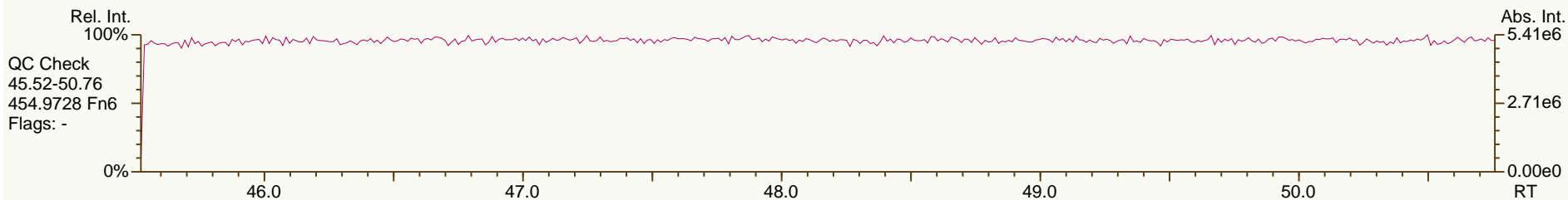
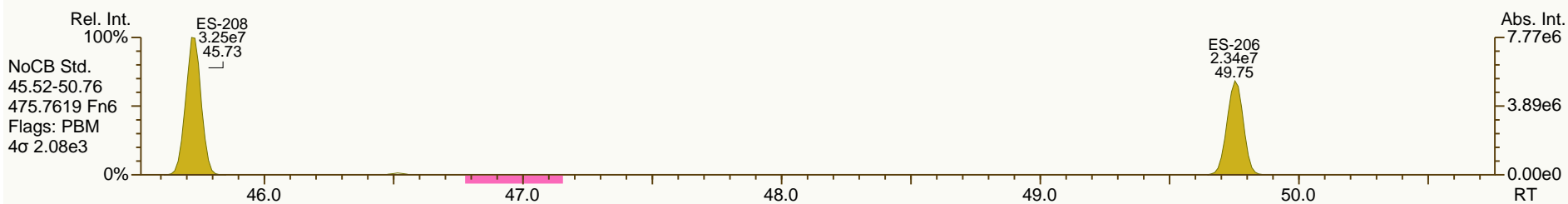
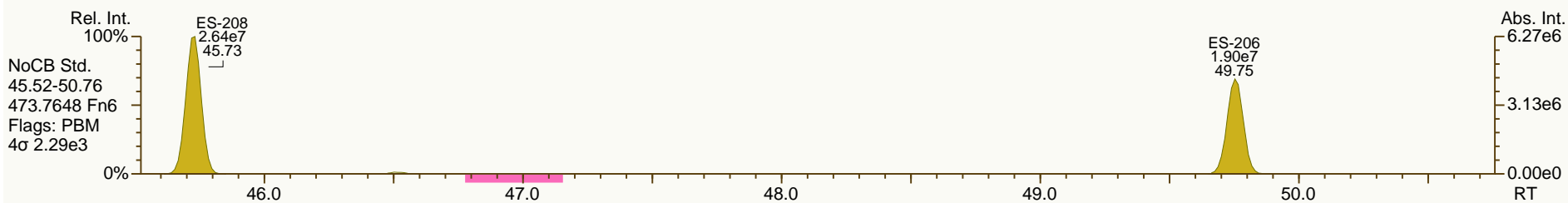
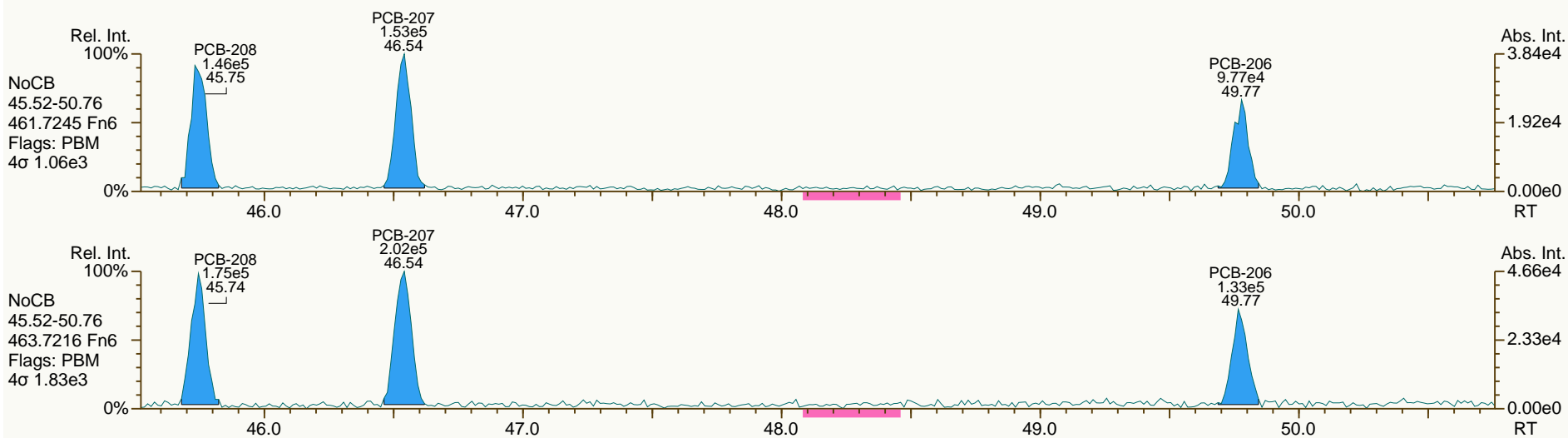
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User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

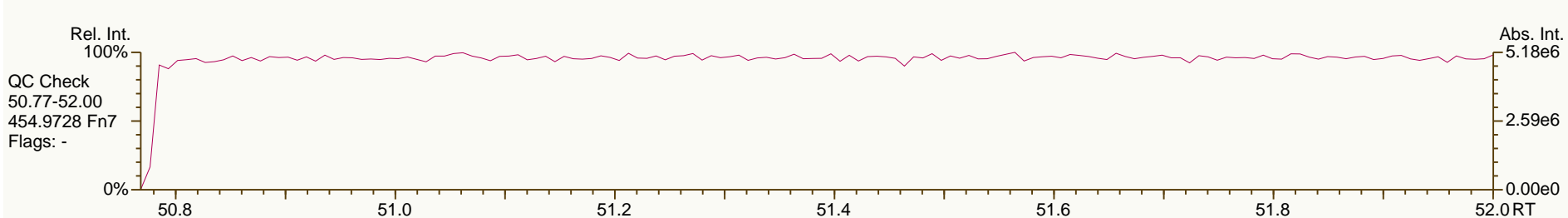
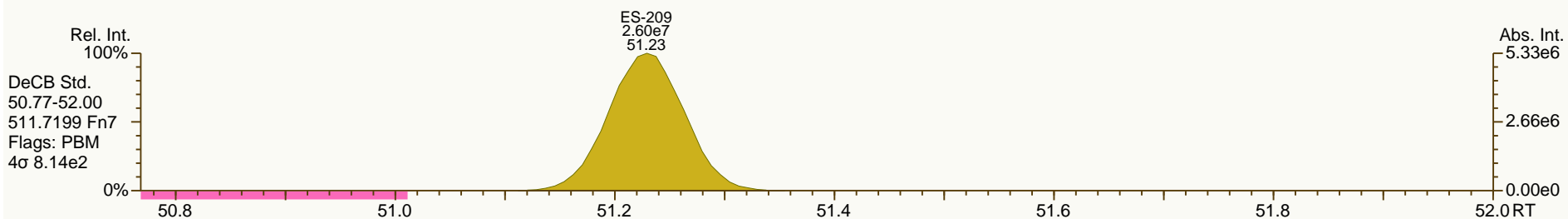
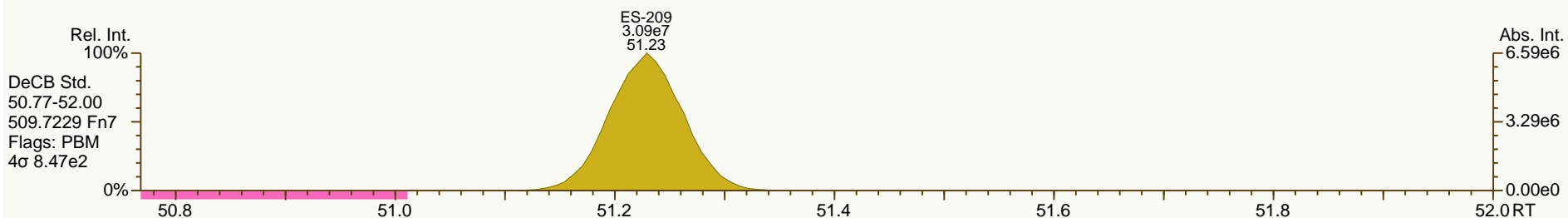
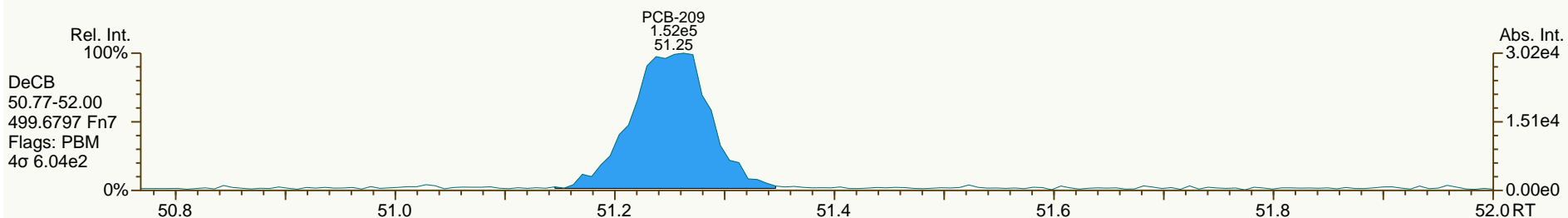
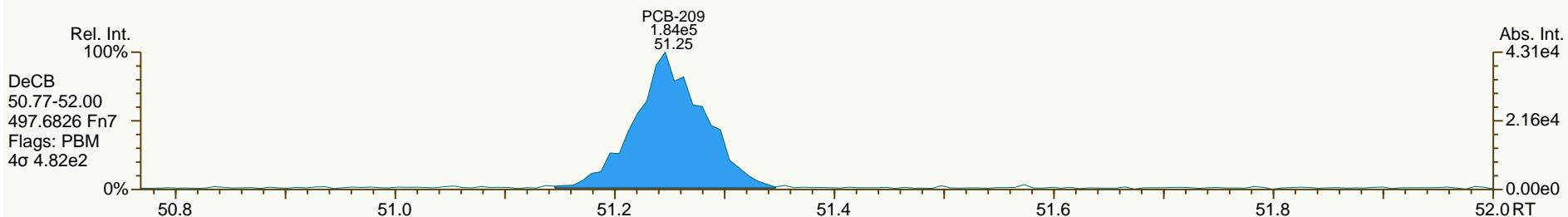
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User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

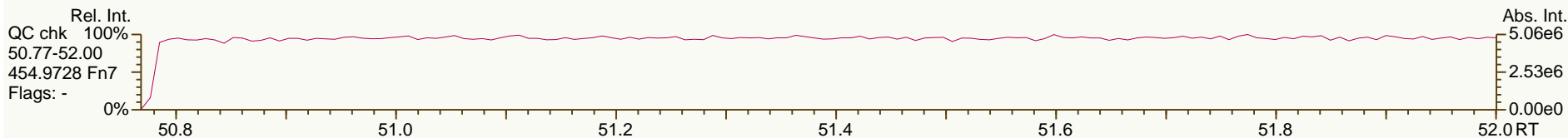
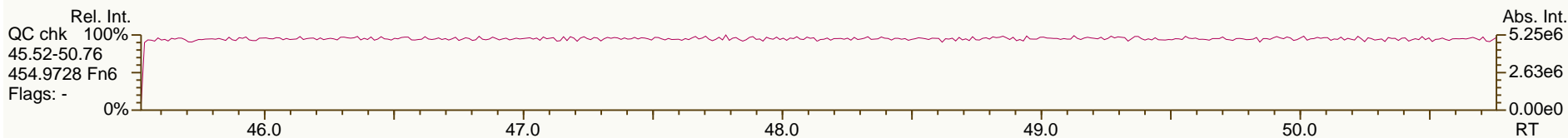
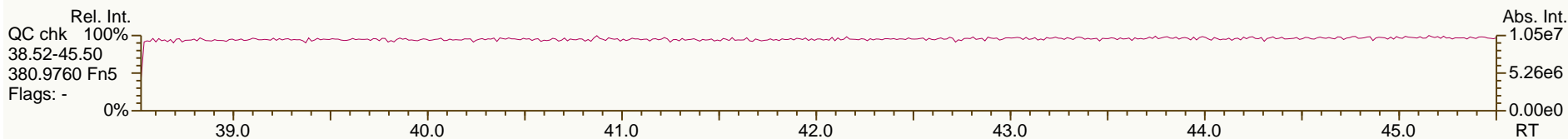
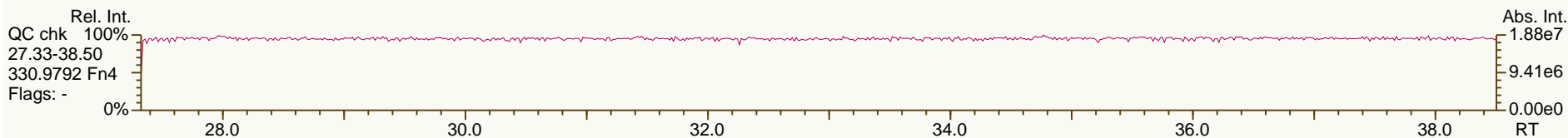
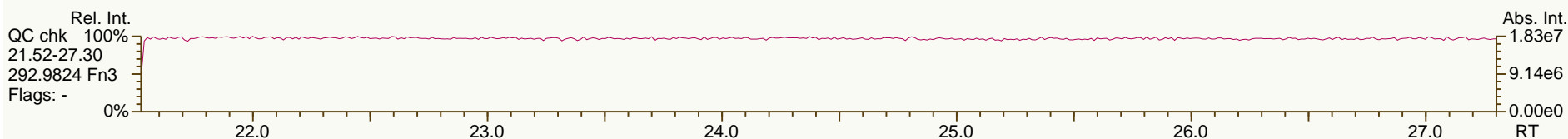
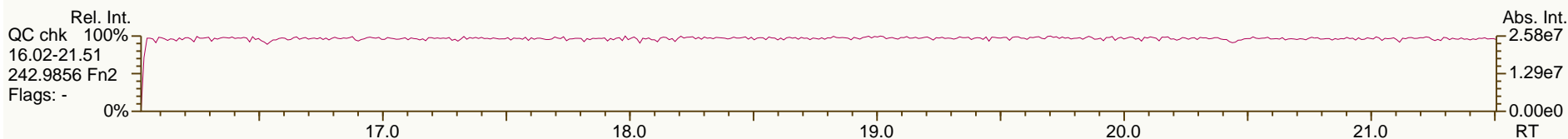
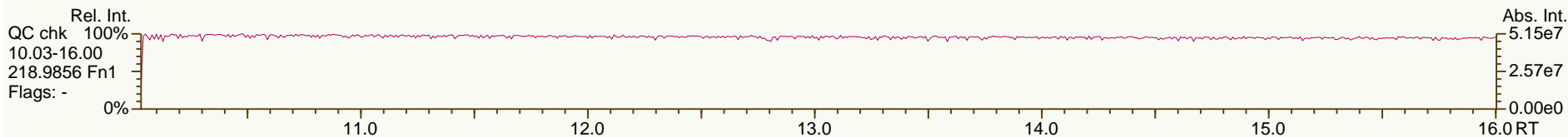
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03





PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	1.44E+06	0.79 Y	1.15	1.11	-3.6%	
PCB-81 344'5'-TeCB	32.64	1.43E+06	0.81 Y	1.12	1.13	0.8%	
PCB-105 233'44'-PeCB	36.12	1.07E+06	0.63 Y	1.11	1.02	-7.9%	
PCB-114 2344'5'-PeCB	35.58	1.23E+06	0.64 Y	1.20	1.16	-3.3%	
PCB-118 23'44'5'-PeCB	35.11	1.13E+06	0.62 Y	1.19	1.13	-5.3%	
PCB-123 23'44'5'-PeCB	34.82	1.24E+06	0.61 Y	1.21	1.20	-1.2%	
PCB-126 33'44'5'-PeCB	38.73	9.39E+05	0.63 Y	1.11	1.07	-3.3%	
PCB-156/157 ...-HxCB	41.29	1.93E+06	1.26 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	1.07E+06	1.25 Y	1.16	1.13	-2.8%	
PCB-169 33'44'55'-HxCB	44.01	9.43E+05	1.29 Y	1.12	1.07	-4.8%	
PCB-189 233'44'55'-HpCB	46.14	8.81E+05	1.07 Y	1.07	1.00	-6.6%	
PCB-209 DeCB	51.26	6.80E+05	1.22 Y	1.11	1.10	-1.1%	
ES PCB-1	12.05	2.45E+08	3.30 Y	1.19	1.22	2.1%	
ES PCB-3	14.37	2.19E+08	3.33 Y	1.09	1.09	0.4%	
ES PCB-4	14.63	1.05E+08	1.62 Y	0.52	0.52	-0.1%	
ES PCB-15	20.39	2.08E+08	1.56 Y	1.04	1.04	-0.5%	
ES PCB-19	17.75	1.01E+08	1.09 Y	0.51	0.50	-0.8%	
ES PCB-37	26.75	1.55E+08	1.10 Y	1.66	1.64	-1.1%	
ES PCB-54	20.68	8.14E+07	0.81 Y	0.86	0.86	0.2%	
ES PCB-77	33.10	1.30E+08	0.82 Y	1.38	1.37	-0.7%	
ES PCB-81	32.63	1.27E+08	0.82 Y	1.37	1.35	-1.5%	
ES PCB-104	25.69	6.93E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.09	1.04E+08	1.61 Y	1.20	1.21	0.7%	
ES PCB-114	35.55	1.06E+08	1.64 Y	1.22	1.22	0.5%	
ES PCB-118	35.09	1.01E+08	1.61 Y	1.16	1.17	0.8%	
ES PCB-123	34.80	1.03E+08	1.61 Y	1.19	1.20	0.9%	
ES PCB-126	38.71	8.78E+07	1.58 Y	1.03	1.02	-0.9%	
ES PCB-153	36.68	6.38E+07	1.31 Y	1.11	1.11	-0.4%	
ES PCB-155	30.66	9.19E+07	1.28 Y	1.59	1.60	0.6%	
ES PCB-156/157	41.27	1.81E+08	1.29 Y	1.60	1.57	-1.9%	
ES PCB-167	40.28	9.51E+07	1.28 Y	1.67	1.65	-1.0%	
ES PCB-169	43.99	8.81E+07	1.26 Y	1.56	1.53	-1.6%	
ES PCB-170	43.50	5.21E+07	1.09 Y	0.95	0.93	-1.8%	
ES PCB-180	42.43	6.14E+07	1.09 Y	1.14	1.10	-3.7%	
ES PCB-188	35.55	5.38E+07	1.11 Y	0.94	0.93	-0.5%	
ES PCB-189	46.12	8.78E+07	1.03 Y	1.58	1.57	-1.0%	
ES PCB-202	40.09	5.52E+07	0.93 Y	0.97	0.96	-1.1%	
ES PCB-205	48.29	6.89E+07	0.90 Y	1.24	1.23	-1.2%	
ES PCB-206	49.76	4.58E+07	0.81 Y	0.83	0.82	-1.4%	
ES PCB-208	45.73	6.49E+07	0.80 Y	1.17	1.16	-1.4%	
ES PCB-209	51.23	6.17E+07	1.20 Y	1.11	1.10	-0.7%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.73E+08	1.09 Y	1.11	1.12	0.7%	
SS PCB-111	33.12	1.05E+08	1.58 Y	1.03	1.02	-0.8%	
SS PCB-178	38.12	3.27E+07	1.10 Y	0.62	0.61	-1.9%	
CS PCB-28	23.18	1.73E+08	1.09 Y	1.85	1.84	-0.4%	
CS PCB-111	33.12	1.05E+08	1.58 Y	1.22	1.22	0.1%	
CS PCB-178	38.12	3.27E+07	1.10 Y	0.58	0.57	-2.4%	
JS PCB-9	16.63	2.01E+08	1.58 Y	-	-	-	
JS PCB-52	24.81	9.43E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	8.62E+07	1.61 Y	-	-	-	
JS PCB-138	37.74	5.75E+07	1.31 Y	-	-	-	
JS PCB-194	47.89	5.60E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

PCB QC Summary - Ax2 Detail					Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA		ICAL: 131220 QC MM7				
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-2 3-MoCB	14.20	2.22E+06	3.19 Y	1.03	1.01	-2.1%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-10 26'-DiCB	14.83	1.99E+06	1.53 Y	1.98	1.90	-4.3%	
PCB-9 25'-DiCB	16.65	1.98E+06	1.52 Y	0.95	0.95	0.8%	
PCB-7 24'-DiCB	16.82	2.15E+06	1.55 Y	1.05	1.03	-1.3%	
PCB-6 23'-DiCB	17.04	1.96E+06	1.59 Y	1.00	0.94	-5.2%	
PCB-5 23'-DiCB	17.35	1.92E+06	1.63 Y	1.00	0.92	-7.9%	
PCB-8 24'-DiCB	17.47	2.06E+06	1.64 Y	1.03	0.99	-4.3%	
PCB-14 35'-DiCB	19.04	2.37E+06	1.53 Y	1.18	1.14	-3.6%	
PCB-11 33'-DiCB	19.83	1.97E+06	1.60 Y	1.01	0.95	-6.2%	
PCB-13/12 34'/34'-DiCB	20.12	4.01E+06	1.64 Y	0.99	0.96	-2.7%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-30/18 246'/22'5'-TrCB	19.54	2.96E+06	1.02 Y	1.54	1.47	-4.3%	
PCB-17 22'4'-TrCB	19.95	1.29E+06	1.05 Y	1.31	1.28	-1.9%	
PCB-27 23'6'-TrCB	20.14	1.77E+06	1.07 Y	1.82	1.76	-3.4%	
PCB-24 236'-TrCB	20.28	1.71E+06	1.05 Y	1.72	1.69	-1.8%	
PCB-16 22'3'-TrCB	20.37	9.51E+05	1.08 Y	1.01	0.94	-6.2%	
PCB-32 24'6'-TrCB	20.85	1.93E+06	1.04 Y	1.92	1.91	-0.2%	
PCB-34 23'5'-TrCB	22.01	1.70E+06	1.01 Y	1.14	1.09	-3.6%	
PCB-23 235'-TrCB	22.16	1.69E+06	1.02 Y	1.16	1.09	-5.7%	
PCB-26/29 23'5'/245'-TrCB	22.45	3.54E+06	1.00 Y	1.17	1.14	-2.6%	
PCB-25 23'4'-TrCB	22.64	1.76E+06	0.93 Y	1.16	1.14	-1.8%	
PCB-31 24'5'-TrCB	22.93	1.79E+06	1.00 Y	1.23	1.16	-5.5%	
PCB-28/20 244'/233'-TrCB	23.21	3.35E+06	0.97 Y	1.13	1.08	-4.5%	
PCB-21/33 234'/23'4'-TrCB	23.39	3.53E+06	1.00 Y	1.17	1.14	-3.0%	
PCB-22 234'-TrCB	23.77	1.63E+06	0.98 Y	1.08	1.05	-2.5%	
PCB-36 33'5'-TrCB	25.16	1.74E+06	0.96 Y	1.17	1.12	-4.1%	
PCB-39 34'5'-TrCB	25.48	1.81E+06	0.98 Y	1.21	1.16	-3.9%	
PCB-38 345'-TrCB	26.02	1.68E+06	1.02 Y	1.10	1.08	-1.9%	
PCB-35 33'4'-TrCB	26.41	1.52E+06	0.97 Y	1.04	0.98	-5.4%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	2.16E+06	0.78 Y	0.88	0.85	-2.9%	
PCB-45 22'36'-TeCB	23.29	9.68E+05	0.81 Y	0.77	0.76	-0.6%	
PCB-51 22'46'-TeCB	23.37	1.04E+06	0.82 Y	0.86	0.82	-4.6%	
PCB-46 22'36'-TeCB	23.57	8.57E+05	0.74 Y	0.70	0.68	-3.4%	
PCB-52 22'55'-TeCB	24.83	1.06E+06	0.77 Y	0.84	0.83	-1.4%	
PCB-73 23'5'6'-TeCB	24.97	1.35E+06	0.75 Y	1.11	1.06	-4.6%	
PCB-43 22'35'-TeCB	25.06	8.63E+05	0.75 Y	0.71	0.68	-4.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	2.50E+06	0.75 Y	1.02	0.98	-3.8%	

PCB QC Summary - Ax2 Detail					Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	1.01E+06	0.77 Y	0.84	0.79	-5.5%	
PCB-44/47/65 ...-TeCB	25.76	3.36E+06	0.79 Y	0.90	0.88	-2.5%	
PCB-59/62/75 ...-TeCB	26.04	4.29E+06	0.80 Y	1.17	1.13	-3.3%	
PCB-42 22'34'-TeCB	26.20	9.26E+05	0.75 Y	0.76	0.73	-4.4%	
PCB-41 22'34'-TeCB	26.54	8.37E+05	0.80 Y	0.69	0.66	-5.2%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	2.09E+06	0.82 Y	0.86	0.82	-4.1%	
PCB-64 23'4'6'-TeCB	26.83	1.50E+06	0.75 Y	1.22	1.18	-3.1%	
PCB-72 23'55'-TeCB	27.55	1.50E+06	0.80 Y	1.21	1.18	-2.1%	
PCB-68 23'45'-TeCB	27.81	1.57E+06	0.77 Y	1.28	1.24	-3.0%	
PCB-57 23'3'5'-TeCB	28.18	1.41E+06	0.85 Y	1.16	1.11	-4.3%	
PCB-58 23'3'5'-TeCB	28.38	1.44E+06	0.79 Y	1.18	1.13	-4.0%	
PCB-67 23'45'-TeCB	28.54	1.59E+06	0.76 Y	1.26	1.25	-0.7%	
PCB-63 23'4'5'-TeCB	28.77	1.60E+06	0.79 Y	1.30	1.26	-3.2%	
PCB-61/70/74/76 ...-TeCB	29.06	5.90E+06	0.78 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.34	1.35E+06	0.80 Y	1.10	1.06	-3.5%	
PCB-55 23'3'4'-TeCB	29.49	1.40E+06	0.79 Y	1.12	1.10	-1.8%	
PCB-56 23'3'4'-TeCB	29.93	1.33E+06	0.78 Y	1.11	1.05	-5.4%	
PCB-60 23'44'-TeCB	30.12	1.42E+06	0.78 Y	1.14	1.12	-1.4%	
PCB-80 33'55'-TeCB	30.45	1.64E+06	0.76 Y	1.31	1.29	-1.8%	
PCB-79 33'4'5'-TeCB	31.78	1.69E+06	0.80 Y	1.31	1.33	1.6%	
PCB-78 33'4'5'-TeCB	32.27	1.26E+06	0.77 Y	1.06	0.99	-6.5%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-96 22'366'-PeCB	26.03	8.58E+05	0.71 Y	1.23	1.24	0.8%	
PCB-103 22'45'6'-PeCB	27.72	9.36E+05	0.64 Y	0.93	0.91	-2.5%	
PCB-94 22'356'-PeCB	27.91	7.83E+05	0.65 Y	0.80	0.76	-5.2%	
PCB-95 22'35'6'-PeCB	28.30	8.29E+05	0.59 Y	0.87	0.80	-7.3%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	1.71E+06	0.59 Y	0.86	0.83	-4.0%	
PCB-102 22'456'-PeCB	28.63	9.57E+05	0.62 Y	0.97	0.93	-4.2%	
PCB-98 22'34'6'-PeCB	28.69	7.04E+05	0.64 Y	0.76	0.68	-10.0%	
PCB-88 22'346'-PeCB	28.99	7.38E+05	0.59 Y	0.80	0.72	-10.4%	
PCB-91 22'34'6'-PeCB	29.06	9.82E+05	0.56 Y	0.94	0.95	0.8%	
PCB-84 22'33'6'-PeCB	29.25	6.84E+05	0.58 Y	0.72	0.66	-7.4%	
PCB-89 22'346'-PeCB	29.67	7.66E+05	0.63 Y	0.76	0.74	-2.8%	
PCB-121 23'45'6'-PeCB	30.02	1.19E+06	0.67 Y	1.20	1.15	-3.9%	
PCB-92 22'355'-PeCB	30.33	8.33E+05	0.61 Y	0.82	0.81	-1.6%	
PCB-113/90/101 ...-PeCB	30.82	2.96E+06	0.62 Y	0.99	0.96	-2.9%	
PCB-83 22'33'5'-PeCB	31.26	7.27E+05	0.67 Y	0.71	0.70	-1.5%	
PCB-99 22'44'5'-PeCB	31.36	9.10E+05	0.63 Y	0.92	0.88	-4.2%	
PCB-112 23'3'56'-PeCB	31.46	1.16E+06	0.65 Y	1.17	1.12	-3.8%	
PCB-108/119/86/97/125...-PeCB	31.80	5.82E+06	0.61 Y	0.98	0.94	-4.0%	
PCB-117 23'4'56'-PeCB	32.34	1.19E+06	0.62 Y	1.14	1.15	1.3%	
PCB-116/85 23'456/22'344'-PeCB	32.43	1.79E+06	0.62 Y	0.94	0.87	-7.6%	
PCB-110 23'3'4'6'-PeCB	32.54	1.10E+06	0.62 Y	1.12	1.07	-4.4%	

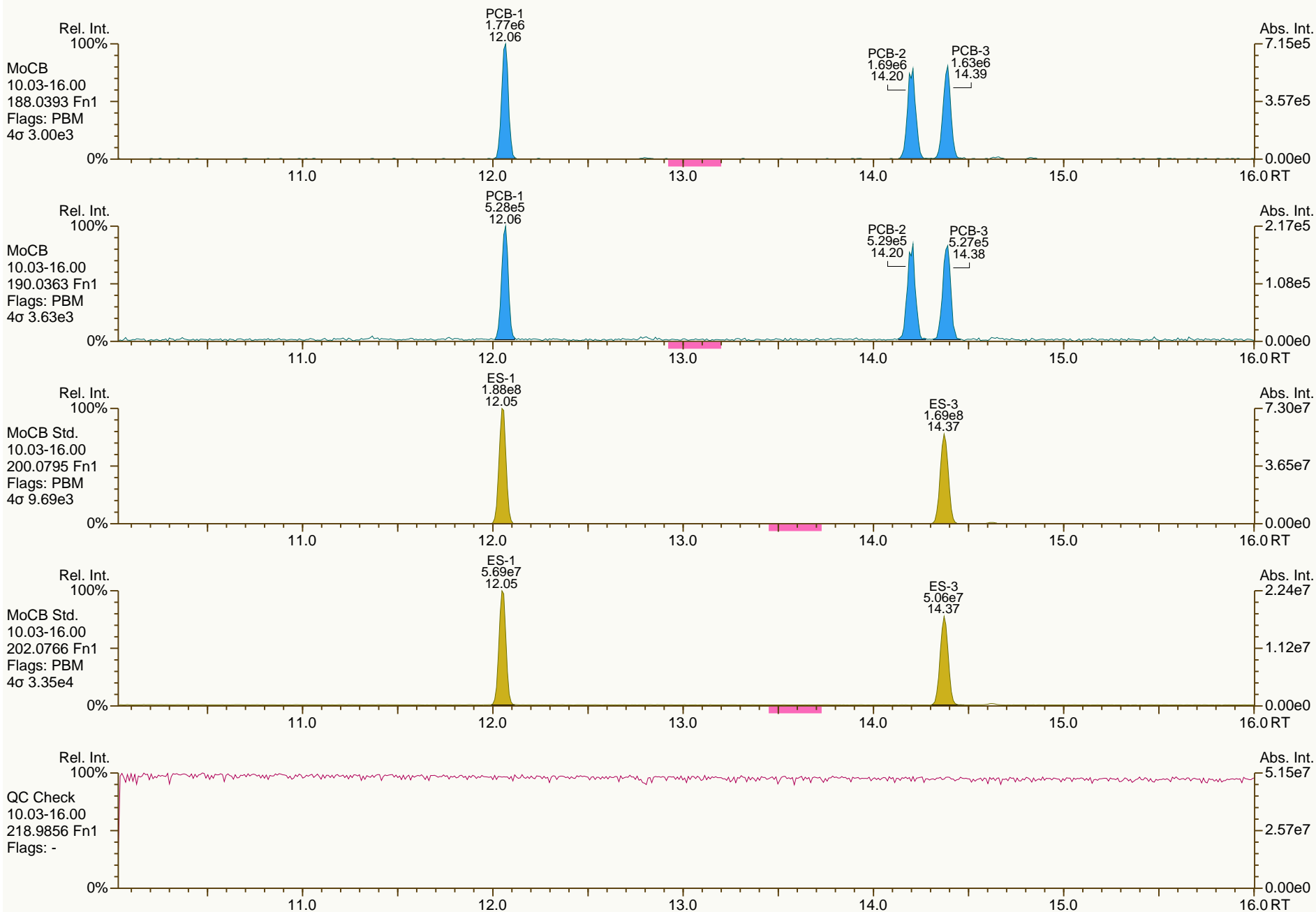
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Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	1.15E+06	0.66 Y	1.16	1.11	-4.2%	
PCB-82 22'33'4-PeCB	32.83	6.91E+05	0.62 Y	0.70	0.67	-4.0%	
PCB-111 233'55'-PeCB	33.15	1.20E+06	0.64 Y	1.22	1.17	-4.5%	
PCB-120 23'455'-PeCB	33.54	1.18E+06	0.65 Y	1.21	1.14	-5.6%	
PCB-107/124 ...-PeCB	34.51	2.12E+06	0.63 Y	1.10	1.03	-6.4%	
PCB-109 233'46-PeCB	34.72	1.09E+06	0.61 Y	1.25	1.05	-16.1%	
PCB-106 233'45-PeCB	34.94	1.12E+06	0.63 Y	1.11	1.08	-2.0%	
PCB-122 233'4'5'-PeCB	35.40	1.01E+06	0.63 Y	0.99	0.96	-3.7%	
PCB-127 33'455'-PeCB	37.35	1.08E+06	0.63 Y	1.10	1.04	-5.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-152 22'3566'-HxCB	30.84	1.03E+06	1.37 Y	1.17	1.12	-4.2%	
PCB-150 22'34'66'-HxCB	30.98	1.02E+06	1.19 Y	1.18	1.10	-6.1%	
PCB-136 22'33'66'-HxCB	31.29	8.99E+05	1.33 Y	1.07	0.98	-8.3%	
PCB-145 22'3466'-HxCB	31.56	1.00E+06	1.26 Y	1.11	1.09	-2.4%	
PCB-148 22'34'56'-HxCB	32.83	7.25E+05	1.41 Y	1.18	1.14	-3.9%	
PCB-151/135 ...-HxCB	33.36	1.44E+06	1.27 Y	1.14	1.13	-1.1%	
PCB-154 22'44'56'-HxCB	33.57	8.24E+05	1.31 Y	1.34	1.29	-3.8%	
PCB-144 22'345'6'-HxCB	33.83	7.12E+05	1.24 Y	1.18	1.12	-5.7%	
PCB-147/149 ...-HxCB	34.13	1.47E+06	1.29 Y	1.18	1.15	-2.3%	
PCB-134 22'33'56'-HxCB	34.31	5.72E+05	1.37 Y	0.92	0.90	-3.0%	
PCB-143 22'3456'-HxCB	34.39	7.05E+05	1.29 Y	1.13	1.10	-2.2%	
PCB-139/140 ...-HxCB	34.66	1.49E+06	1.23 Y	1.21	1.16	-3.5%	
PCB-131 22'33'46'-HxCB	34.83	6.51E+05	1.25 Y	1.03	1.02	-0.6%	
PCB-142 22'3456'-HxCB	34.98	5.89E+05	1.28 Y	0.99	0.92	-6.8%	
PCB-132 22'33'46'-HxCB	35.21	6.45E+05	1.26 Y	1.03	1.01	-2.0%	
PCB-133 22'33'55'-HxCB	35.61	7.07E+05	1.26 Y	1.13	1.11	-2.1%	
PCB-165 233'55'6'-HxCB	35.95	8.89E+05	1.25 Y	1.41	1.39	-1.1%	
PCB-146 22'34'55'-HxCB	36.17	7.40E+05	1.25 Y	1.20	1.16	-3.5%	
PCB-161 233'45'6'-HxCB	36.29	9.19E+05	1.24 Y	1.52	1.44	-5.3%	
PCB-153/168 ...-HxCB	36.72	1.81E+06	1.24 Y	1.46	1.42	-2.7%	
PCB-141 22'3455'-HxCB	36.86	6.67E+05	1.26 Y	1.09	1.05	-4.0%	
PCB-130 22'33'45'-HxCB	37.21	6.08E+05	1.33 Y	0.97	0.95	-2.0%	
PCB-137 22'344'5'-HxCB	37.41	7.27E+05	1.30 Y	1.16	1.14	-2.1%	
PCB-164 233'4'5'6'-HxCB	37.49	9.46E+05	1.33 Y	1.50	1.48	-1.0%	
PCB-163/138/129 ...-HxCB	37.78	2.21E+06	1.21 Y	1.19	1.15	-3.2%	
PCB-160 233'456'-HxCB	37.92	9.44E+05	1.29 Y	1.52	1.48	-2.3%	
PCB-158 233'44'6'-HxCB	38.10	1.05E+06	1.33 Y	1.66	1.64	-1.2%	
PCB-128/166 ...-HxCB	38.84	1.64E+06	1.18 Y	0.90	0.86	-4.3%	
PCB-159 233'455'-HxCB	39.65	1.05E+06	1.27 Y	1.11	1.11	-0.8%	
PCB-162 233'4'55'-HxCB	39.89	9.62E+05	1.13 Y	1.07	1.01	-5.6%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-179 22'33'566'-HpCB	35.85	6.25E+05	1.09 Y	1.16	1.16	0.1%	
PCB-184 22'344'66'-HpCB	36.32	5.87E+05	1.02 Y	1.13	1.09	-3.2%	

PCB QC Summary - Ax2 Detail					Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.61	6.55E+05	1.14 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.01	5.96E+05	1.00 Y	1.13	1.11	-1.5%	
PCB-178 22'33'55'6'-HpCB	38.14	4.31E+05	1.08 Y	0.84	0.80	-4.9%	
PCB-175 22'33'45'6'-HpCB	38.69	6.43E+05	1.04 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.91	6.87E+05	1.08 Y	1.14	1.12	-1.7%	
PCB-182 22'344'56'-HpCB	39.09	6.98E+05	1.03 Y	1.18	1.14	-3.2%	
PCB-183 22'344'5'6'-HpCB	39.44	7.24E+05	1.15 Y	1.20	1.18	-2.1%	
PCB-185 22'3455'6'-HpCB	39.52	6.34E+05	1.02 Y	1.06	1.03	-2.6%	
PCB-174 22'33'456'-HpCB	39.63	6.37E+05	1.07 Y	0.99	1.04	4.9%	
PCB-177 22'33'45'6'-HpCB	40.01	5.78E+05	1.13 Y	0.95	0.94	-1.0%	
PCB-181 22'344'56'-HpCB	40.36	6.58E+05	1.09 Y	1.09	1.07	-1.4%	
PCB-171/173 ...-HpCB	40.54	1.11E+06	1.08 Y	0.95	0.90	-4.7%	
PCB-172 22'33'455'-HpCB	41.89	5.95E+05	1.09 Y	0.99	0.97	-2.0%	
PCB-192 233'455'6'-HpCB	42.14	7.80E+05	1.06 Y	1.29	1.27	-1.3%	
PCB-180/193 ...-HpCB	42.42	1.50E+06	0.95 Y	1.26	1.22	-3.0%	
PCB-191 233'44'5'6'-HpCB	42.75	8.57E+05	1.12 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.52	5.51E+05	0.98 Y	1.14	1.06	-6.8%	
PCB-190 233'44'56'-HpCB	43.98	8.22E+05	1.07 Y	1.66	1.58	-5.0%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-201 22'33'45'66'-OcCB	40.90	6.75E+05	0.92 Y	1.22	1.22	0.1%	
PCB-204 22'344'566'-OcCB	41.48	6.21E+05	0.94 Y	1.12	1.13	0.8%	
PCB-197 22'33'44'66'-OcCB	41.67	6.41E+05	0.90 Y	1.19	1.16	-2.4%	
PCB-200 22'33'4566'-OcCB	41.76	5.73E+05	0.90 Y	1.11	1.04	-6.2%	
PCB-198/199 ...-OcCB	44.09	8.75E+05	0.91 Y	0.81	0.79	-2.0%	
PCB-196 22'33'44'56'-OcCB	44.67	4.40E+05	0.99 Y	0.83	0.80	-4.4%	
PCB-203 22'344'55'6'-OcCB	44.84	4.68E+05	0.92 Y	0.87	0.85	-3.0%	
PCB-195 22'33'44'56'-OcCB	45.96	5.10E+05	0.94 Y	0.77	0.74	-3.4%	
PCB-194 22'33'44'55'-OcCB	47.91	5.61E+05	0.90 Y	0.84	0.82	-3.3%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-207 22'33'44'566'-NoCB	46.54	7.50E+05	0.80 Y	1.19	1.16	-2.9%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

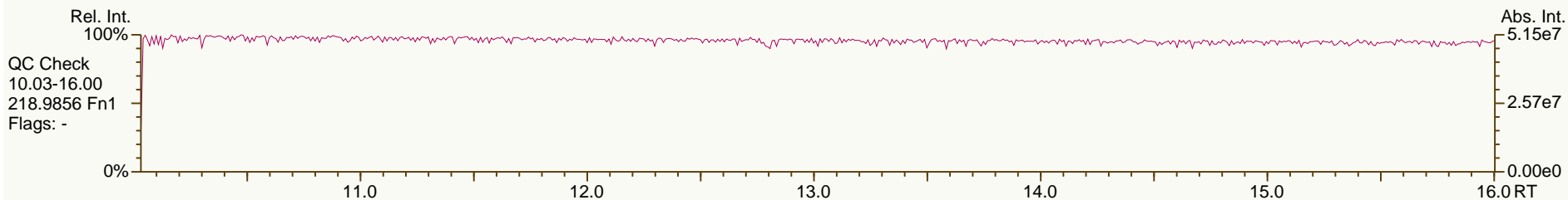
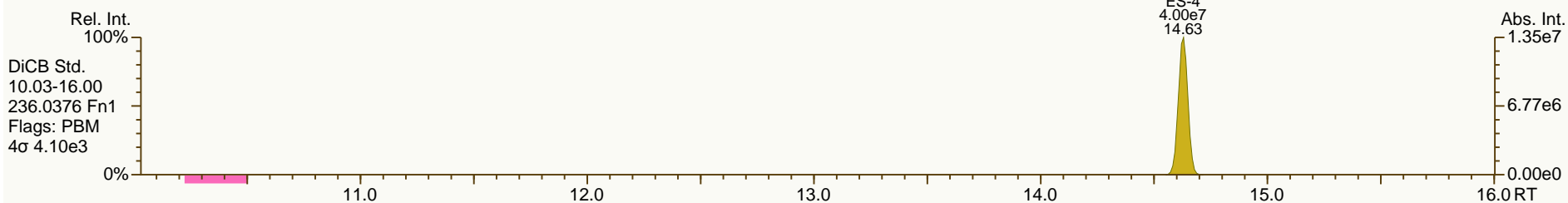
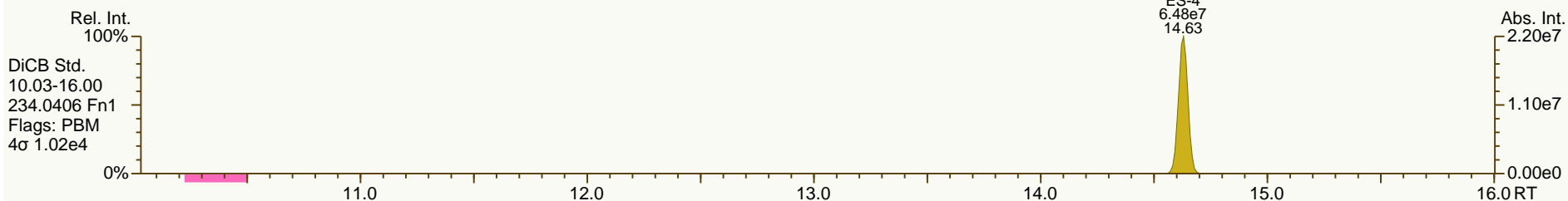
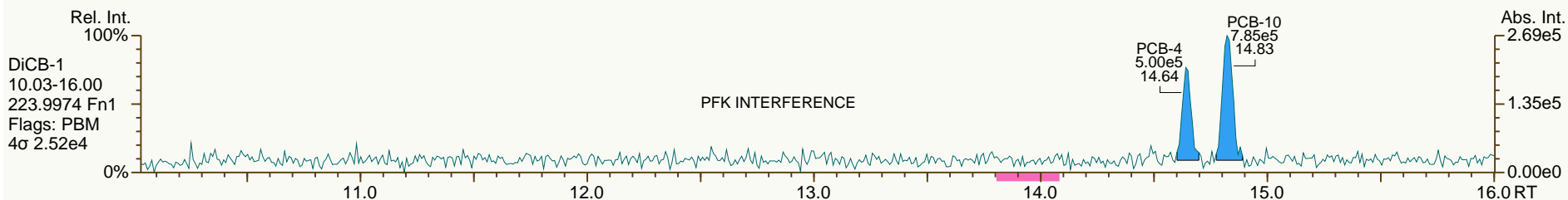
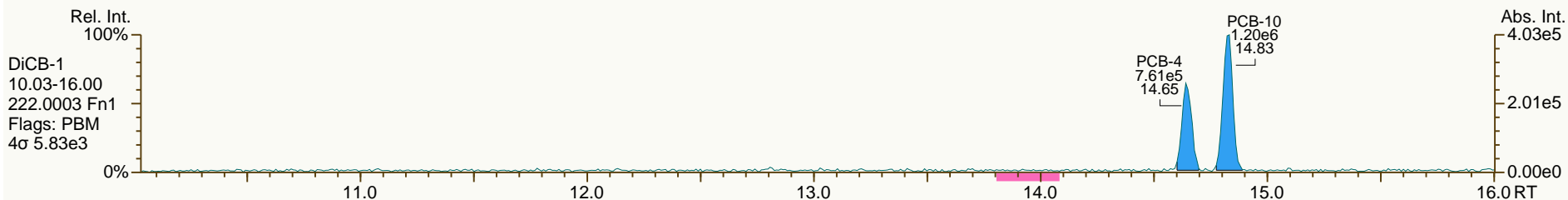
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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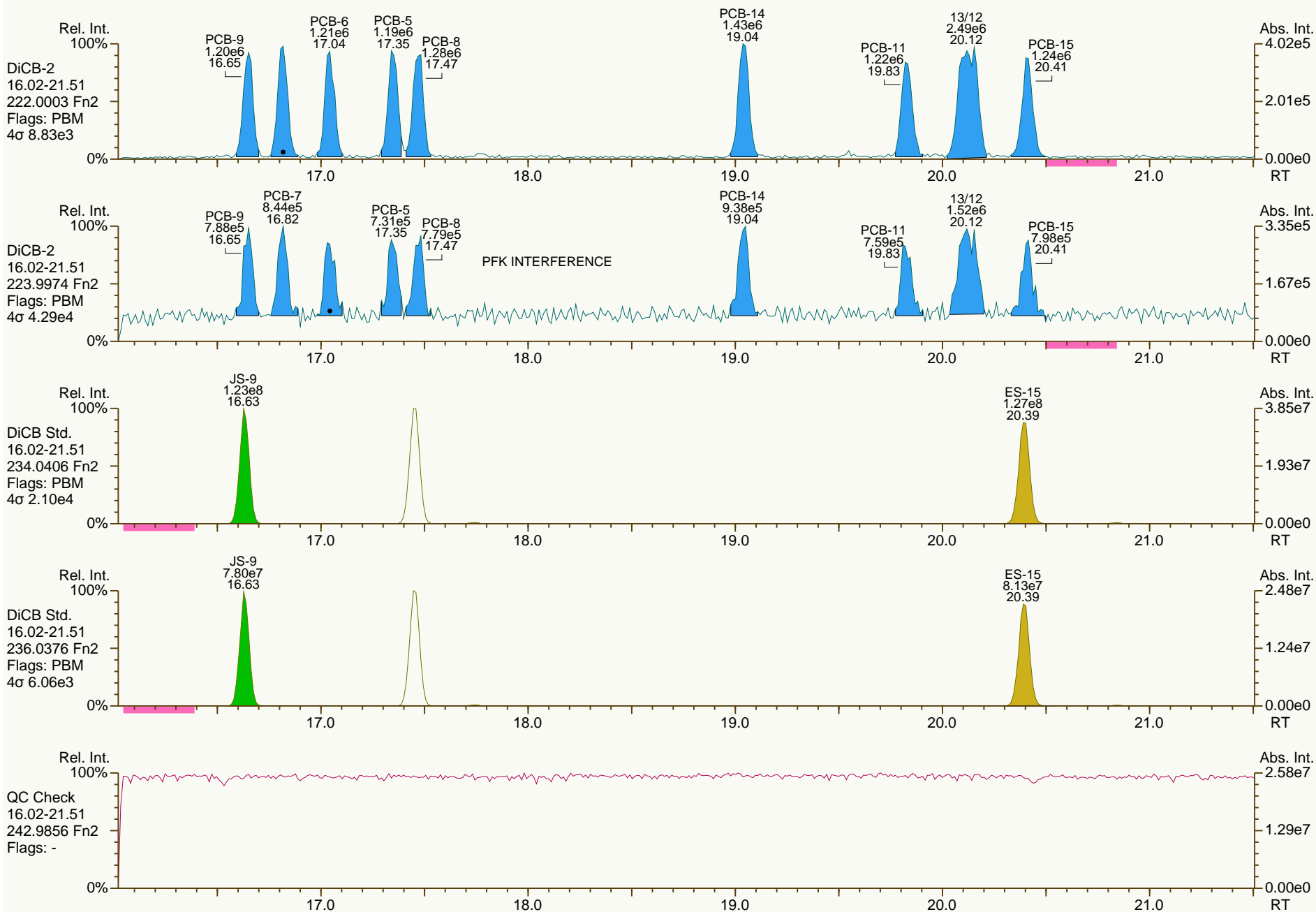




SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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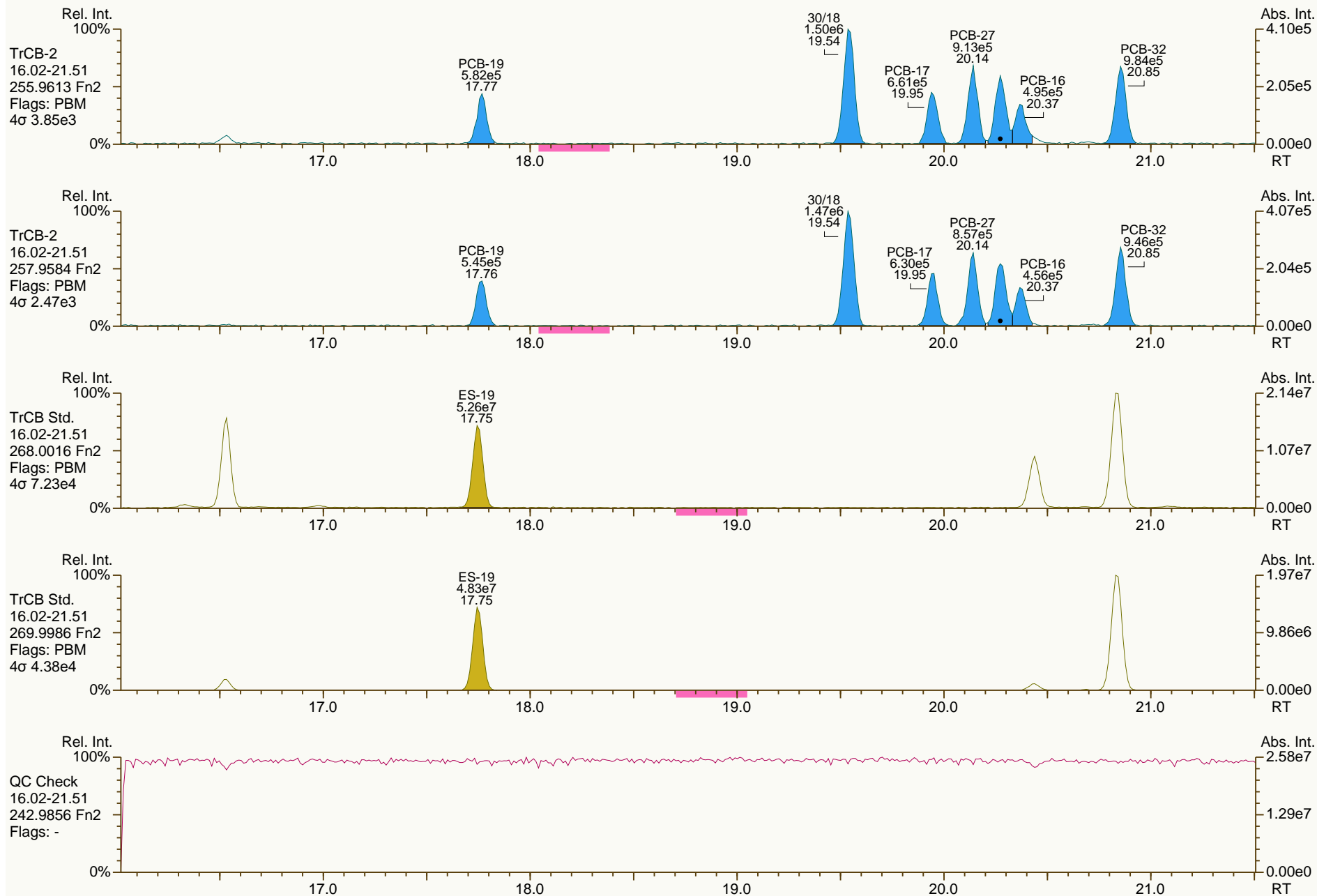
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

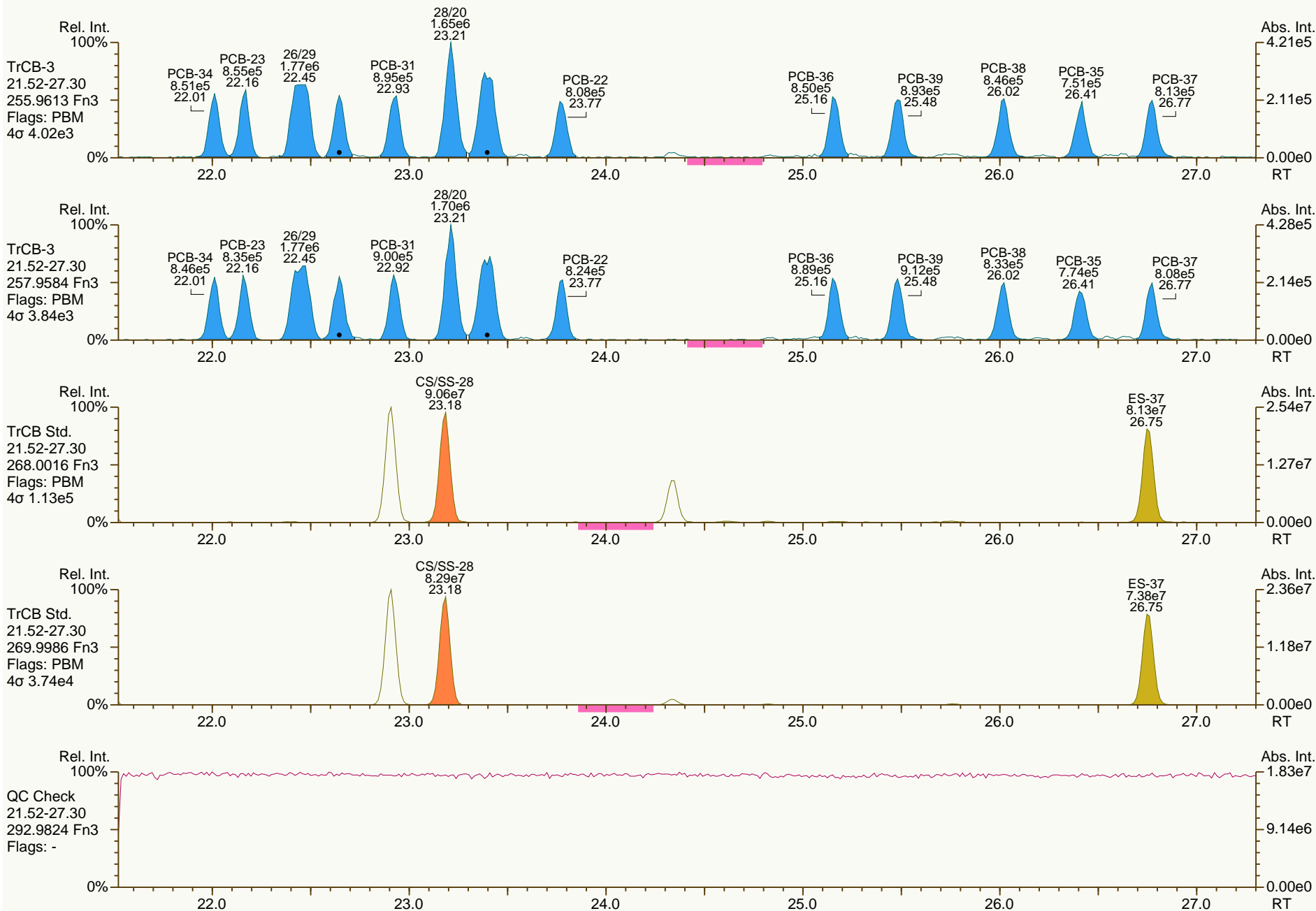
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

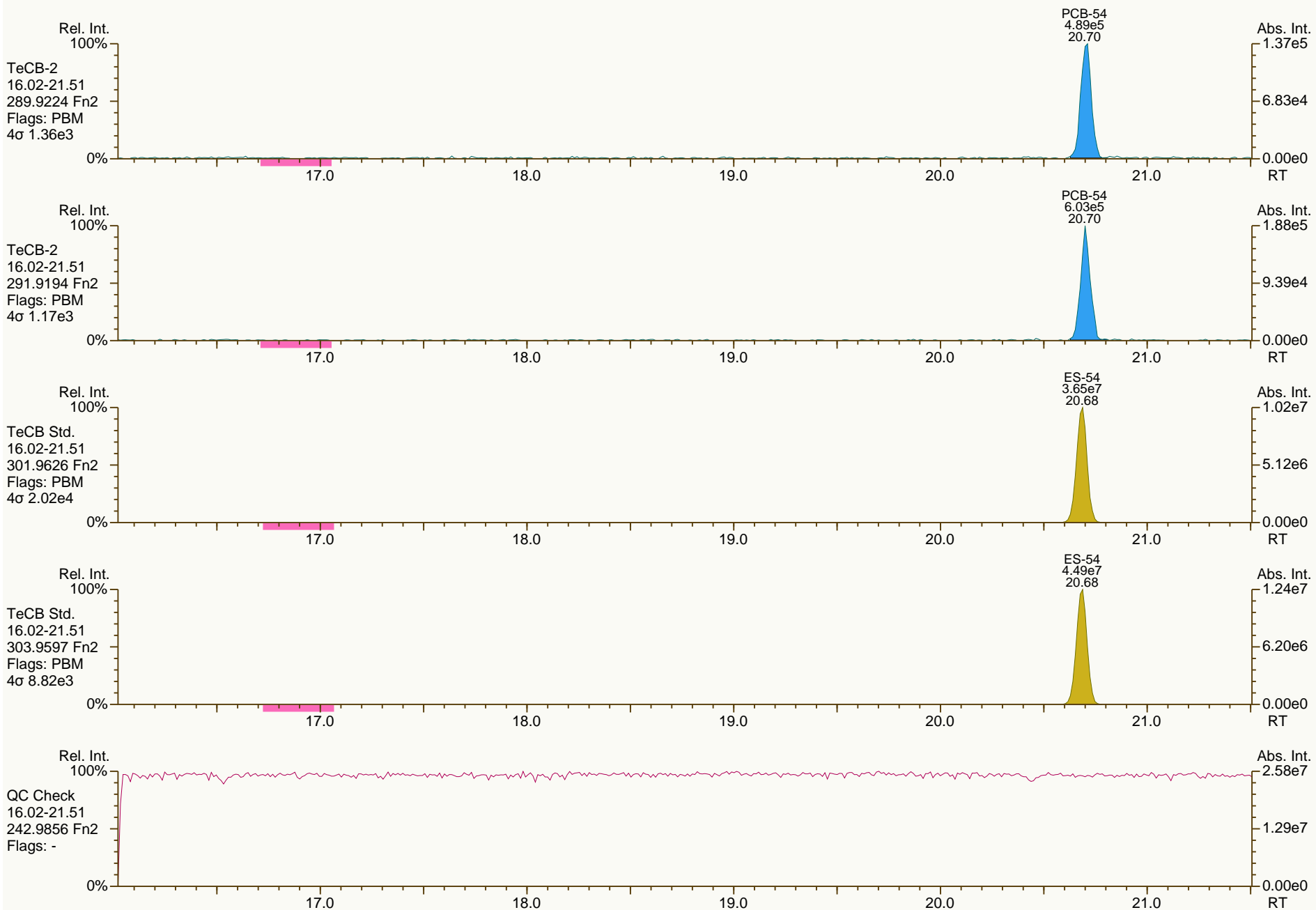
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

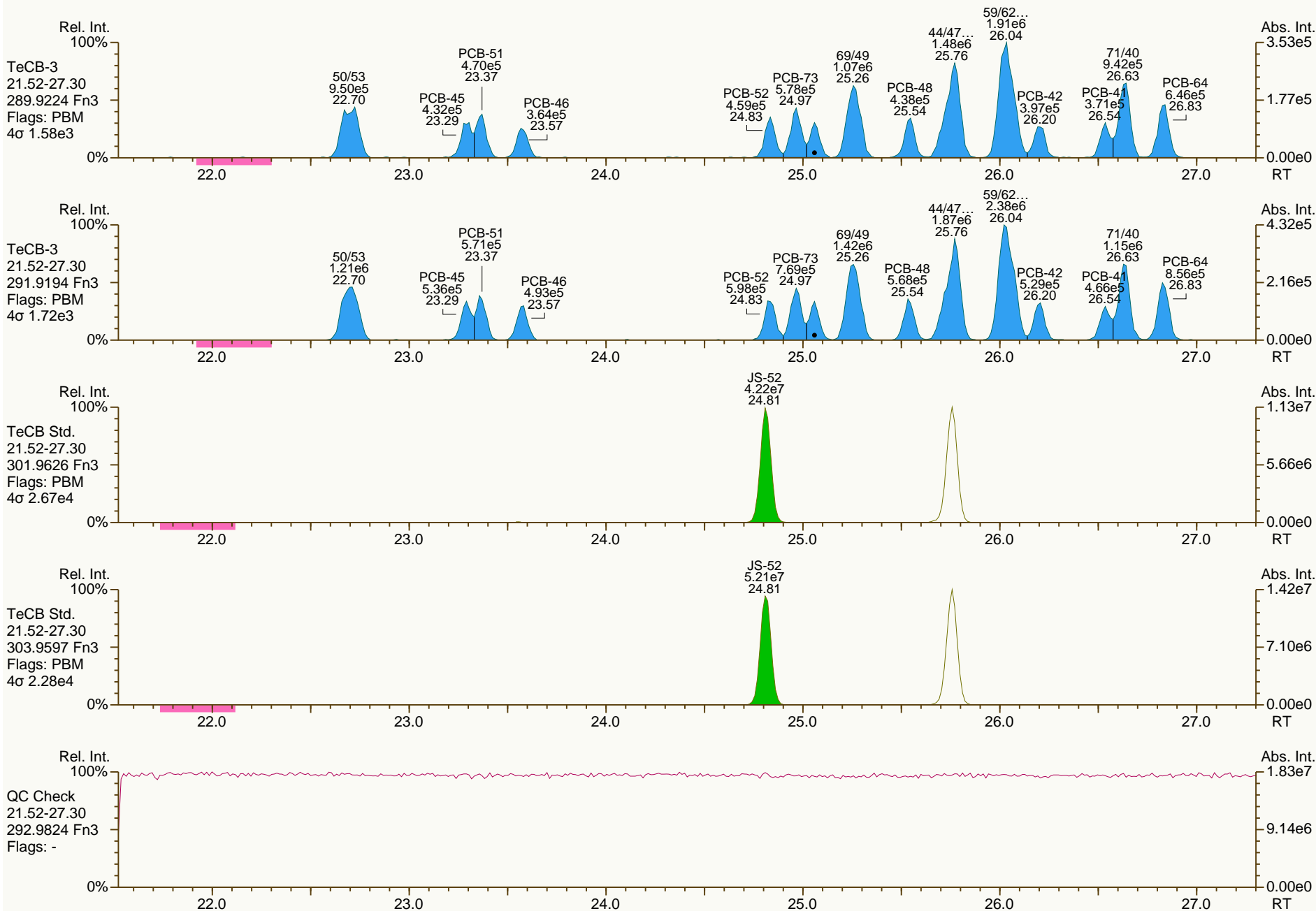
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

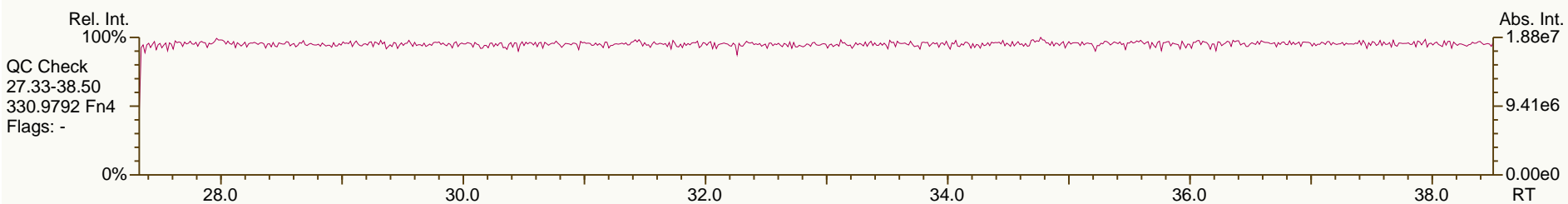
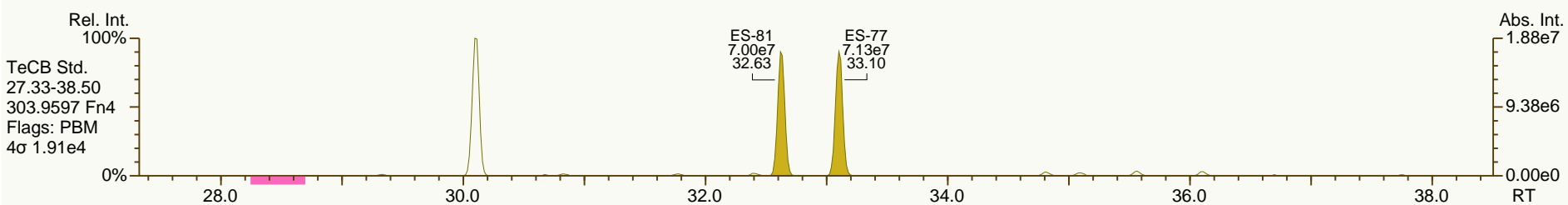
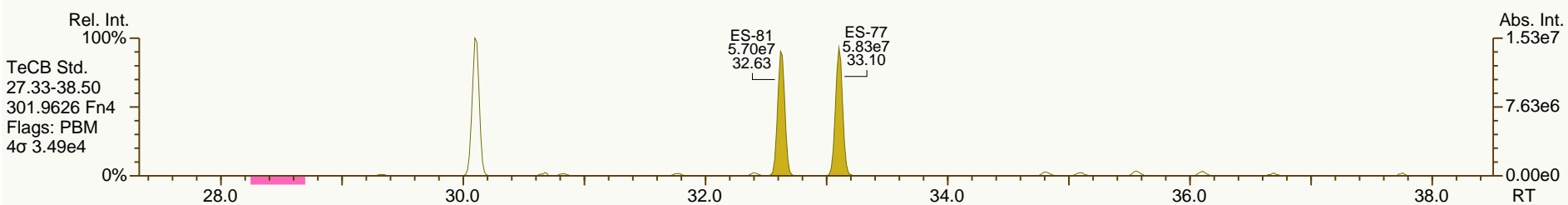
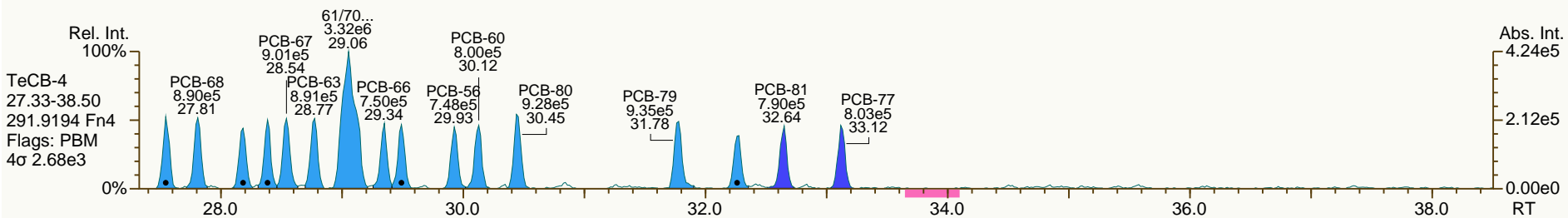
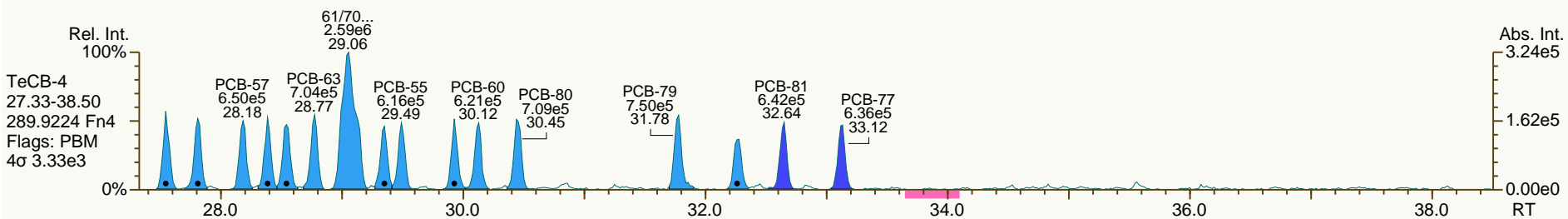
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

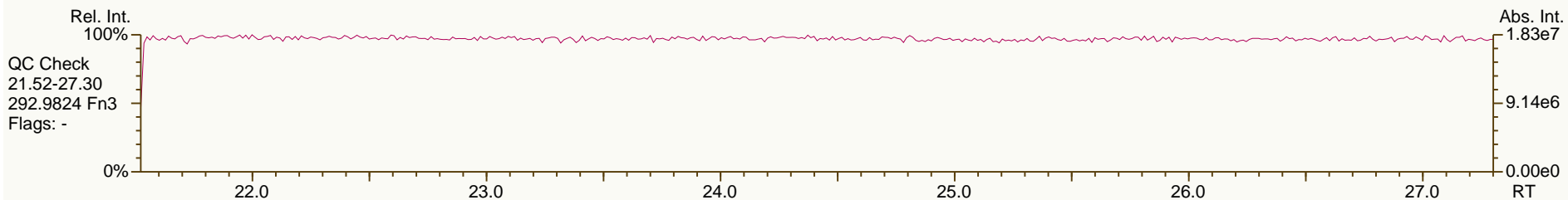
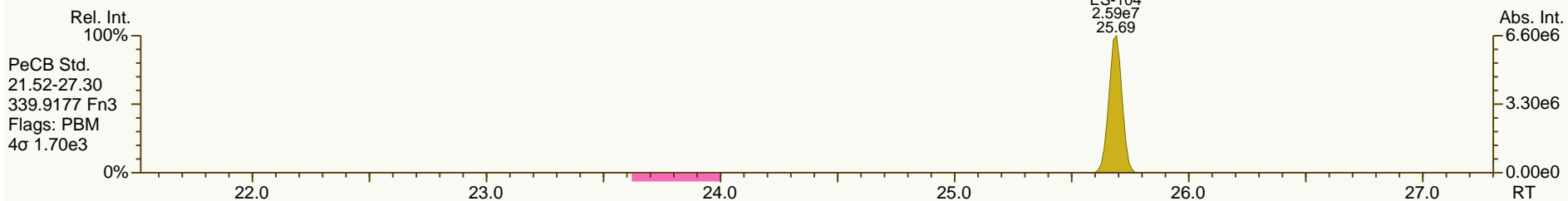
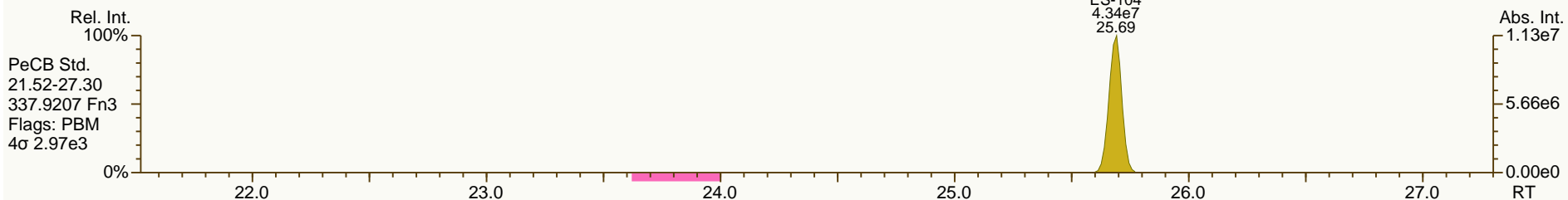
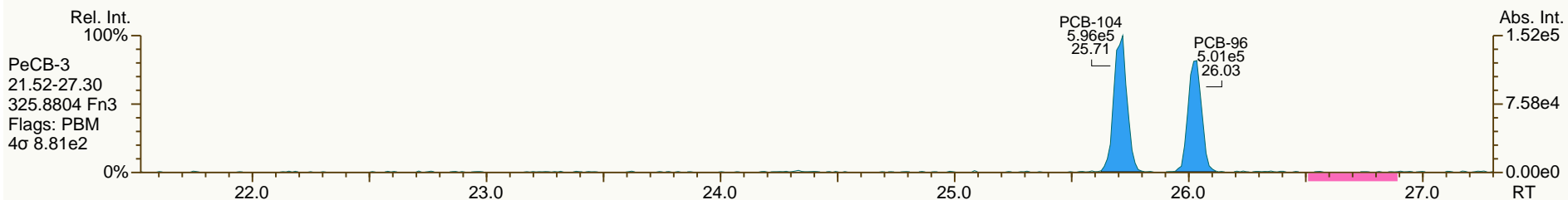
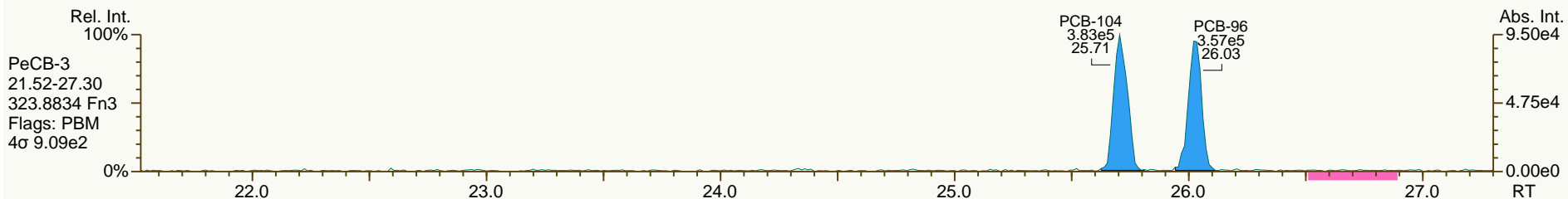
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

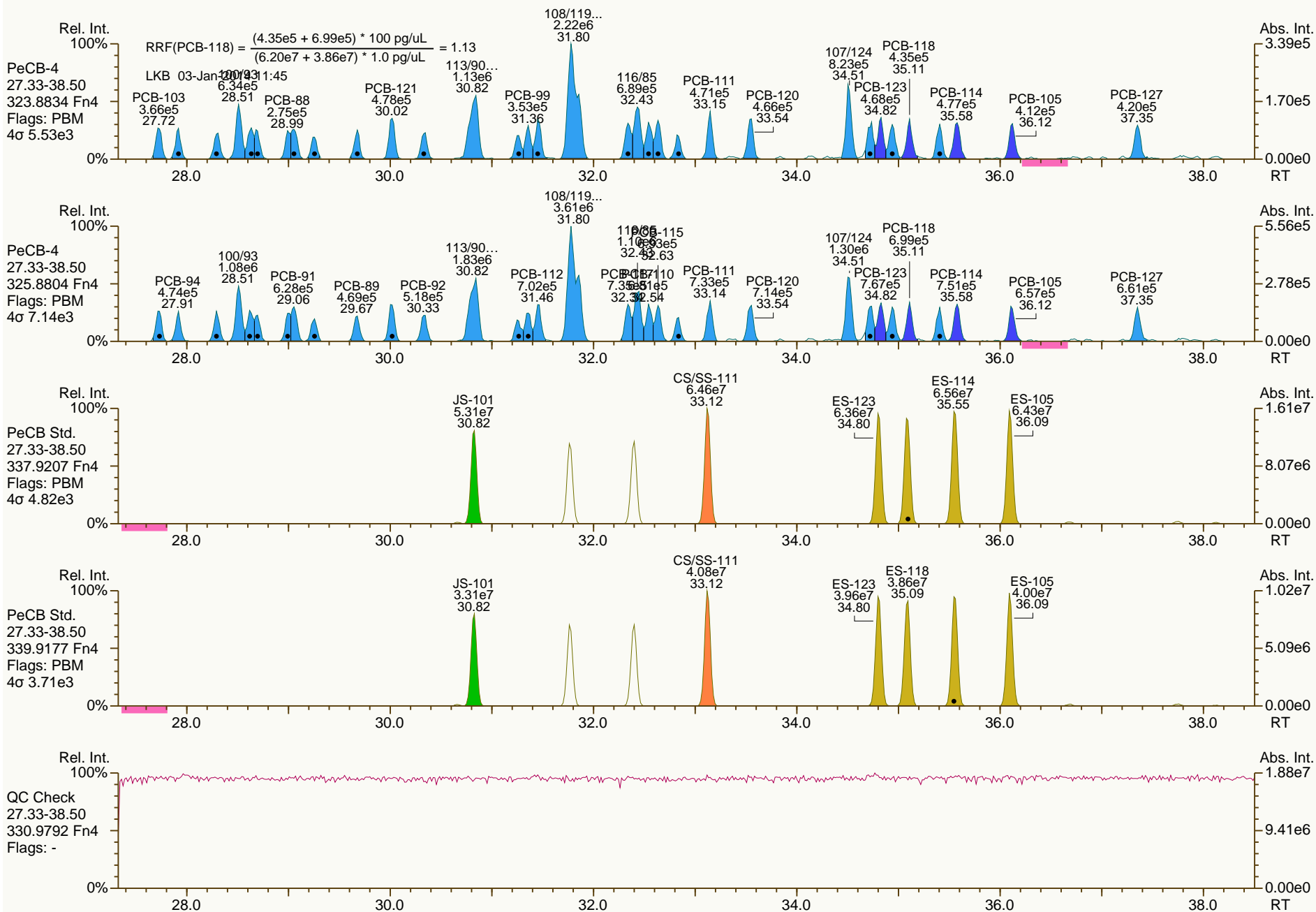
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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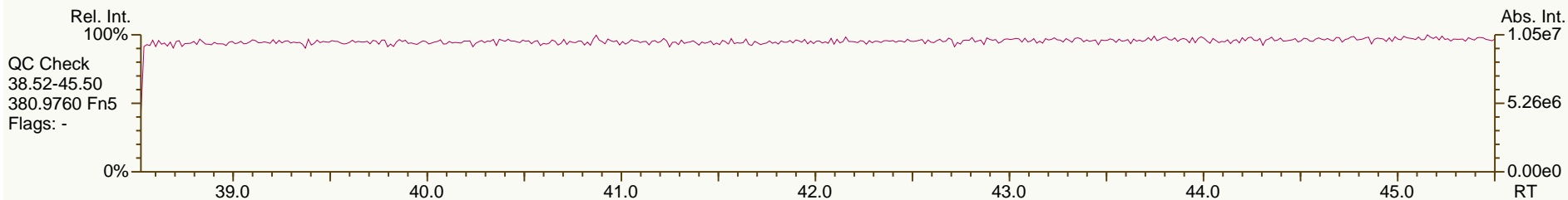
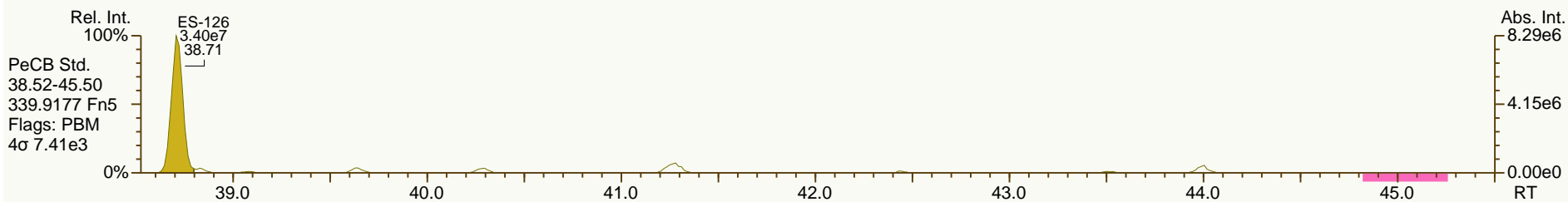
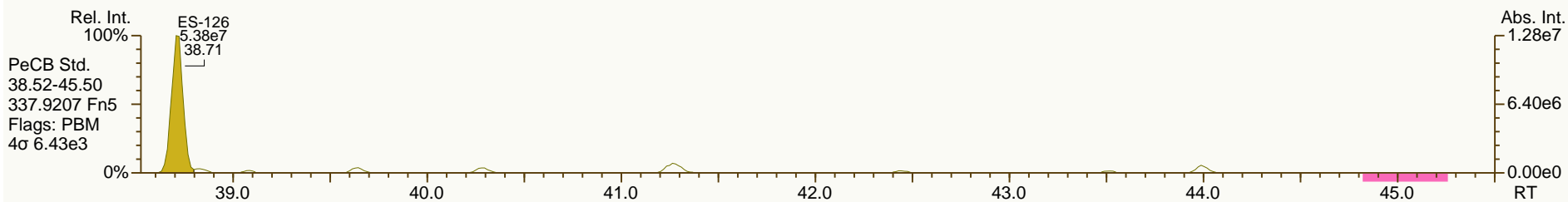
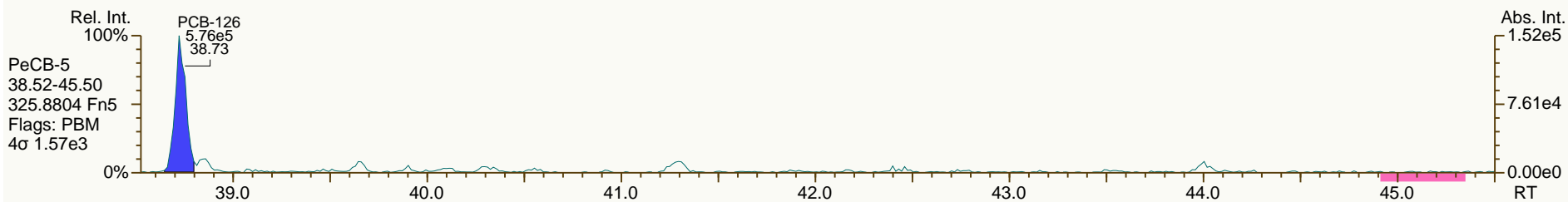
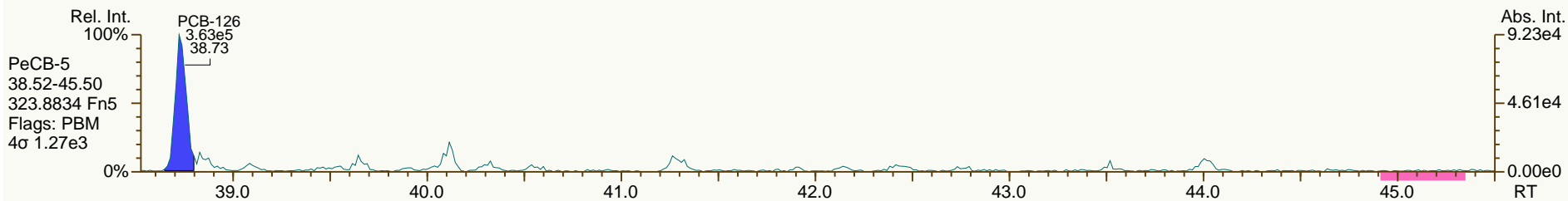




SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

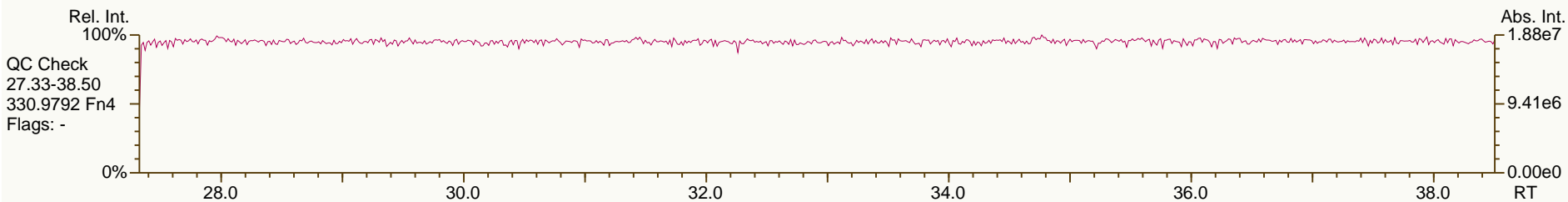
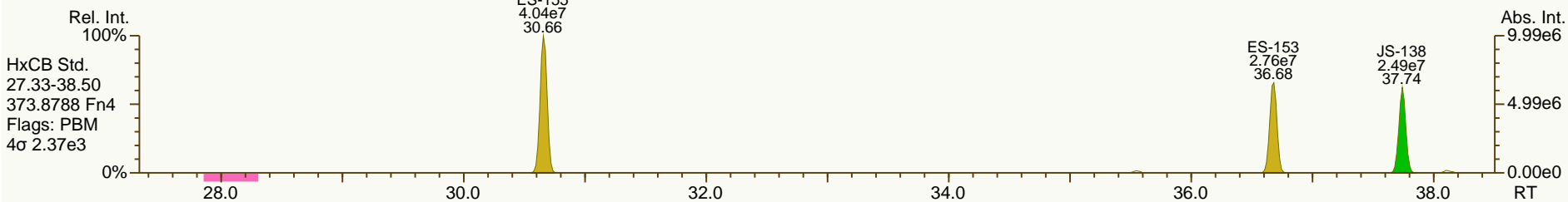
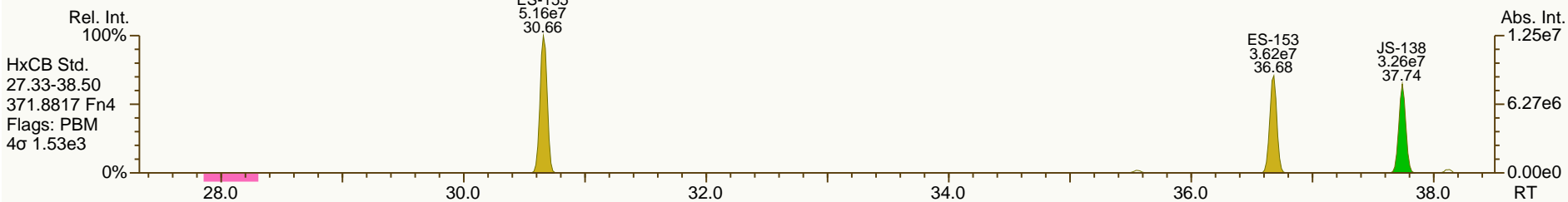
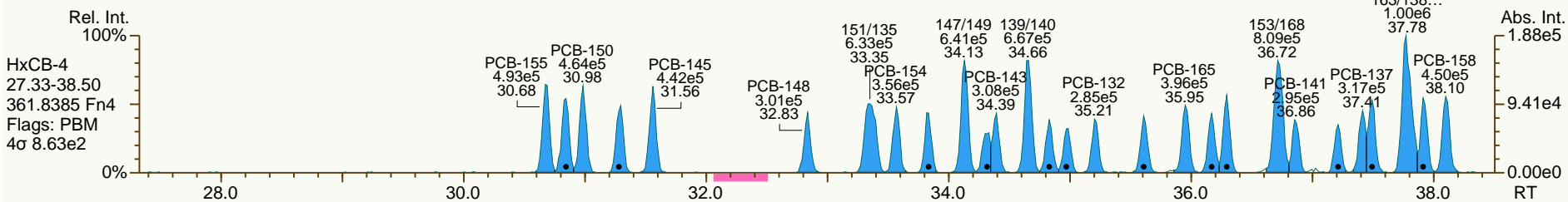
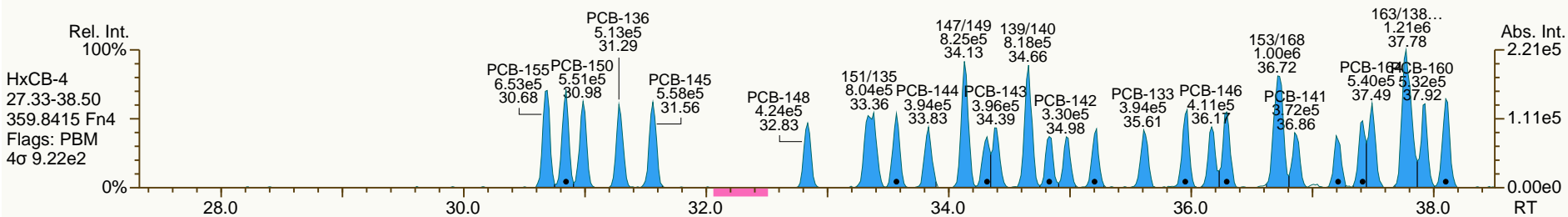
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

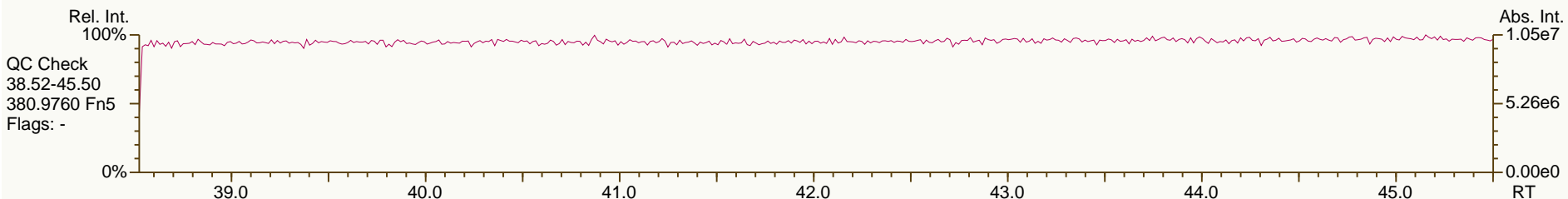
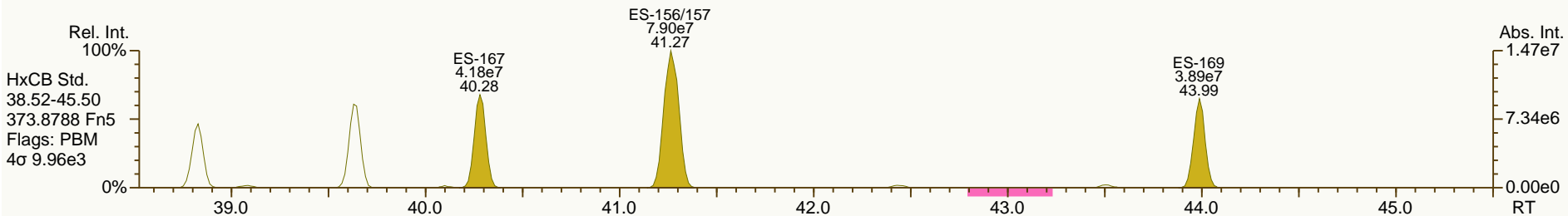
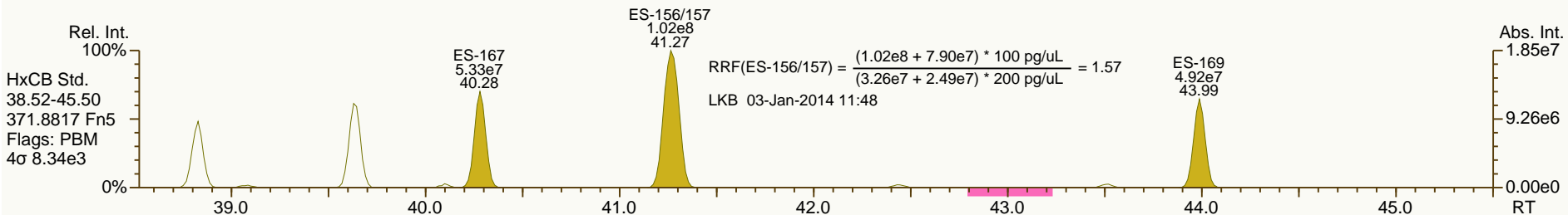
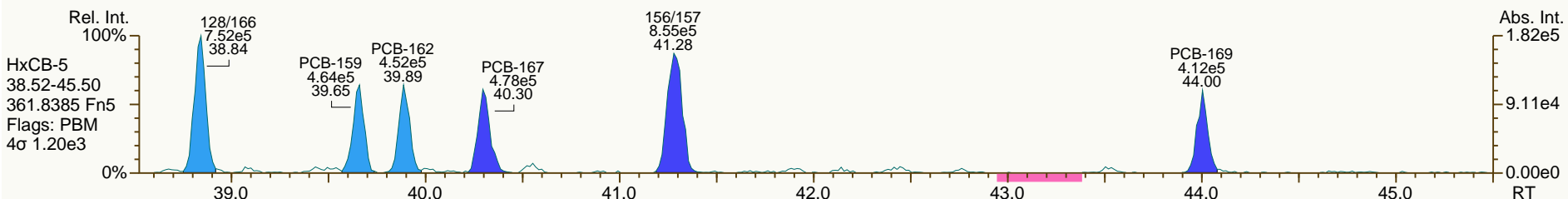
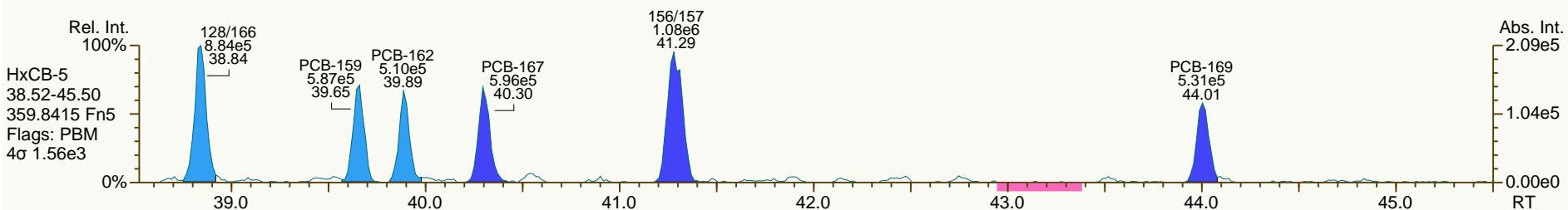
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

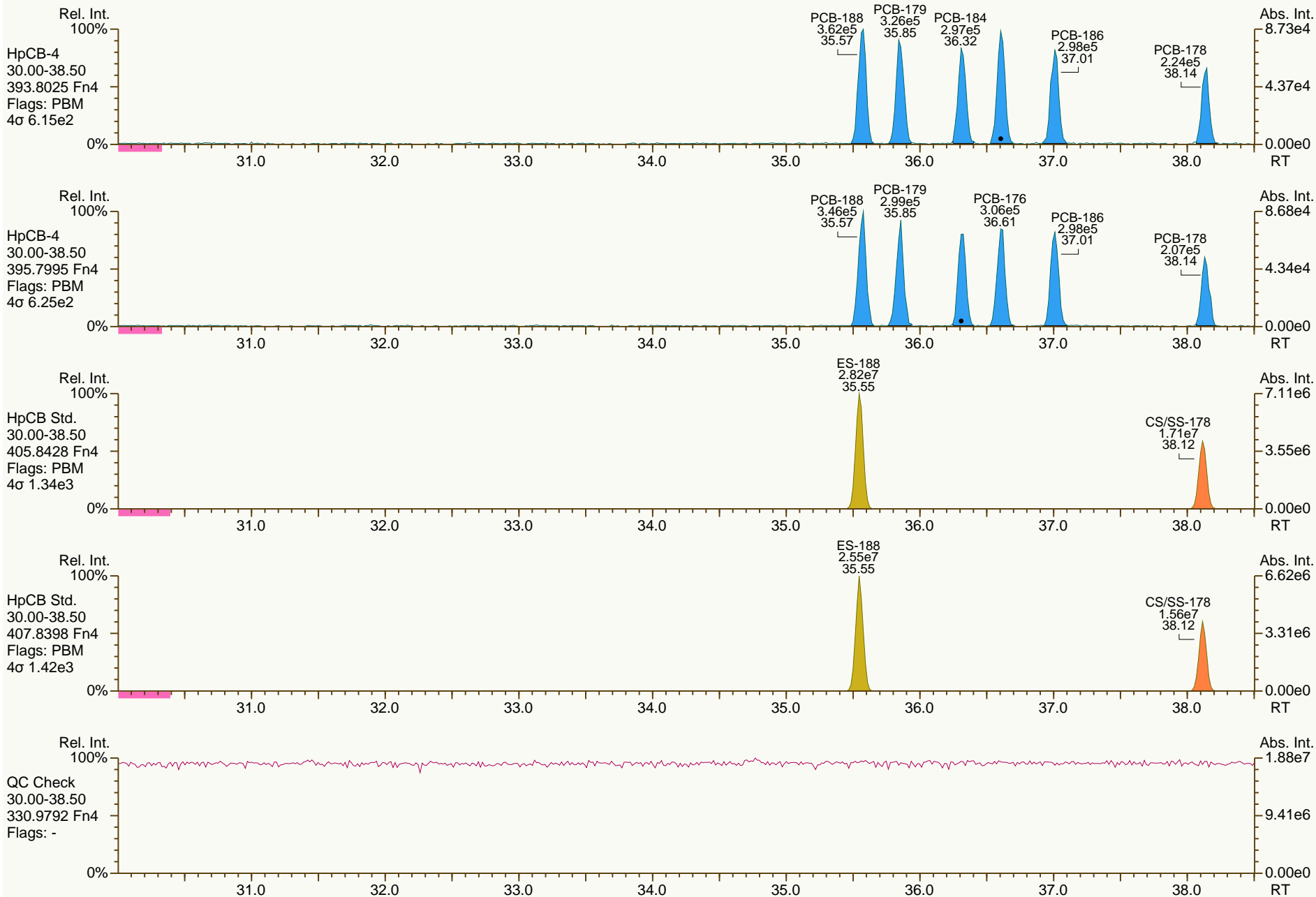
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

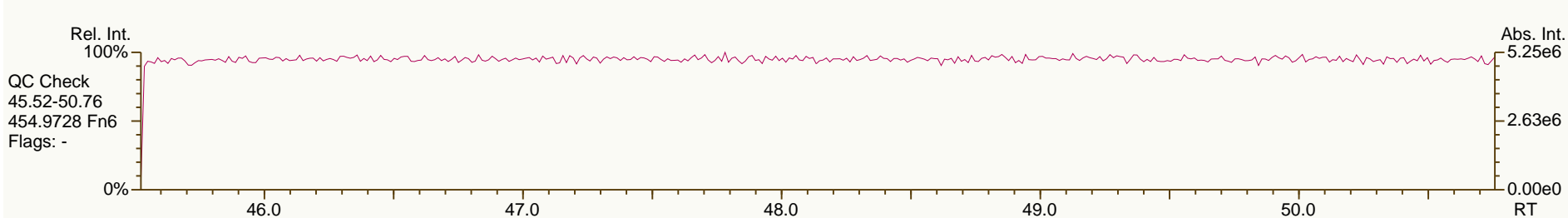
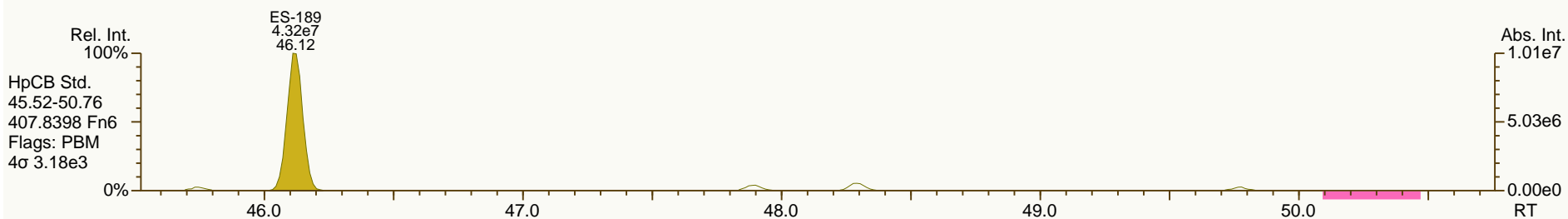
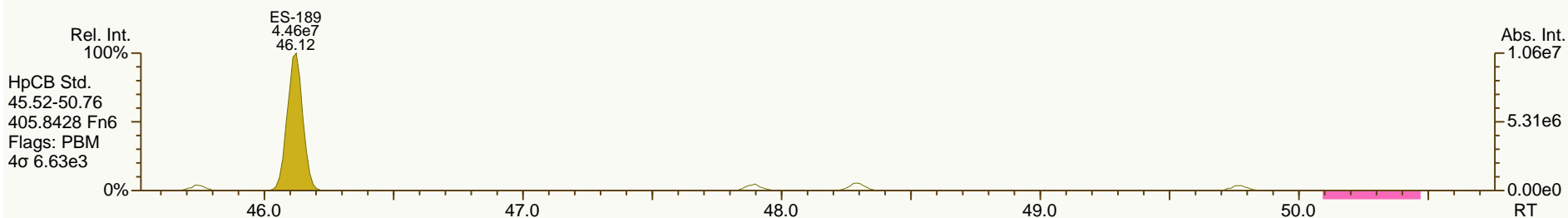
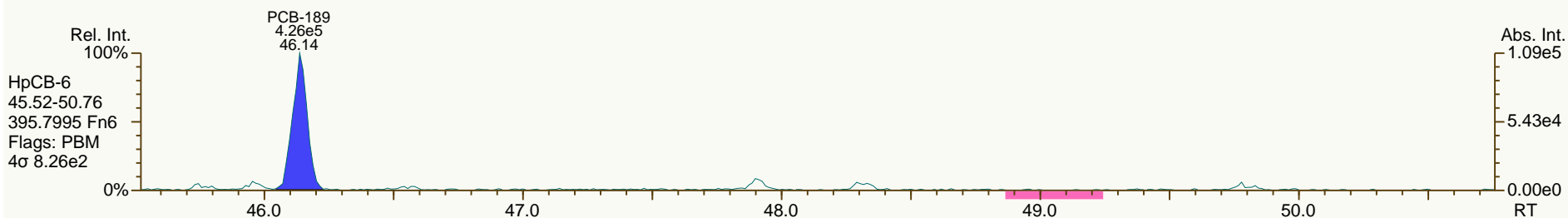
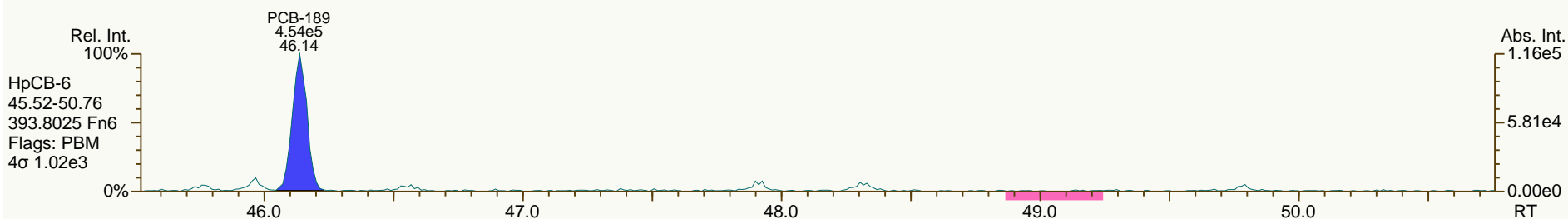
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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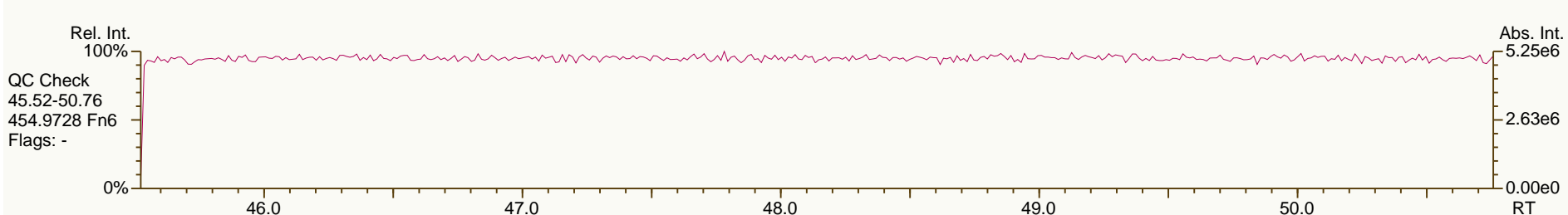
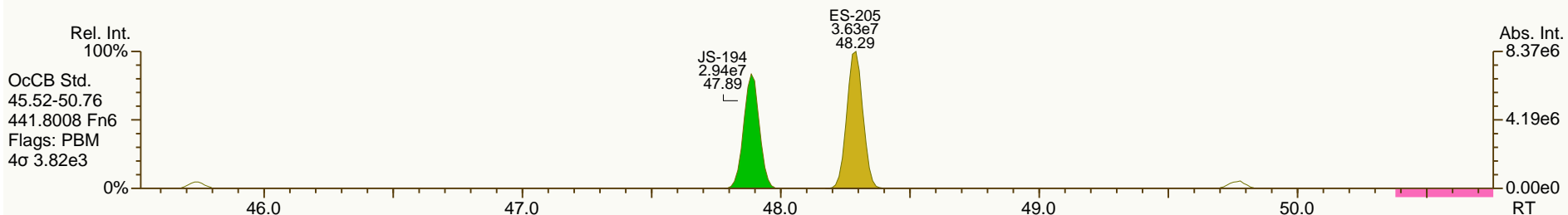
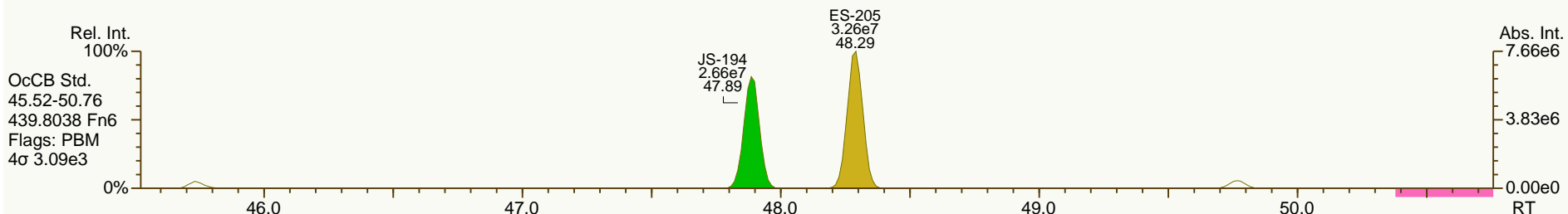
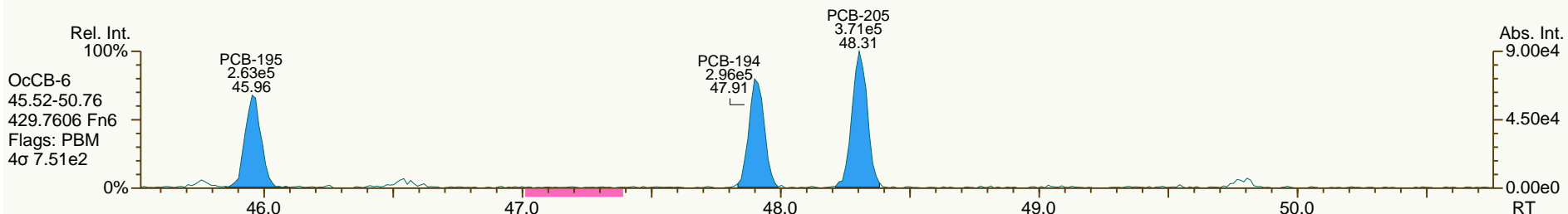
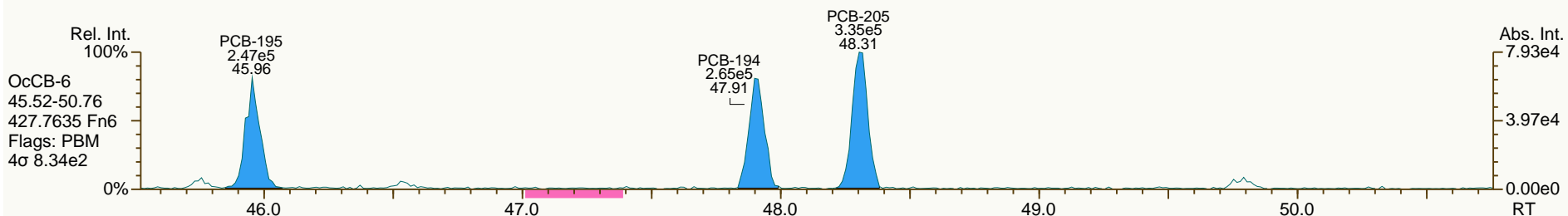
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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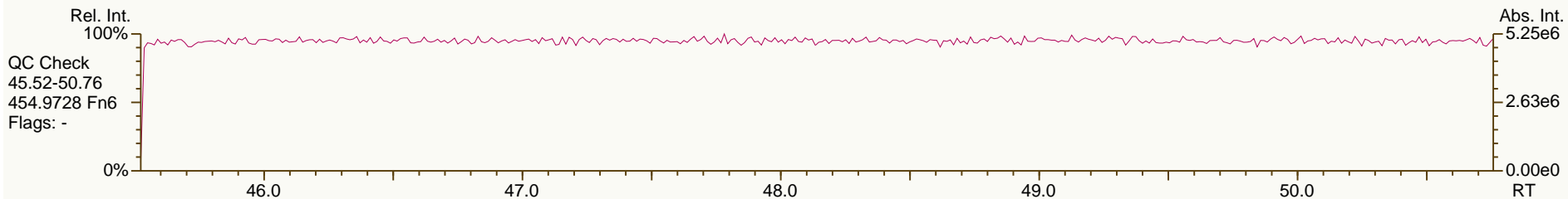
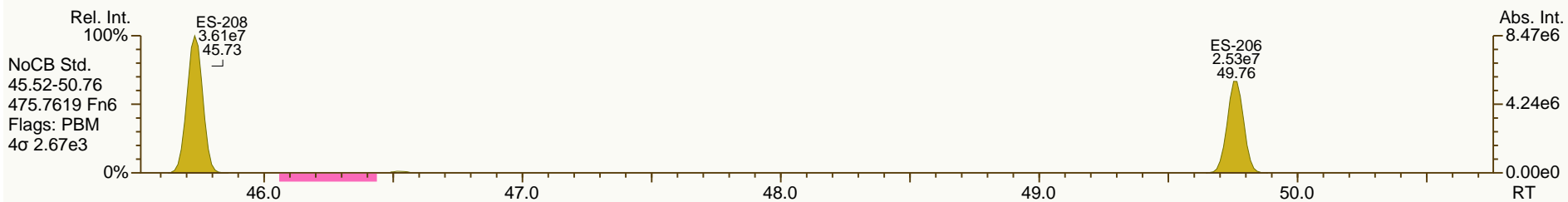
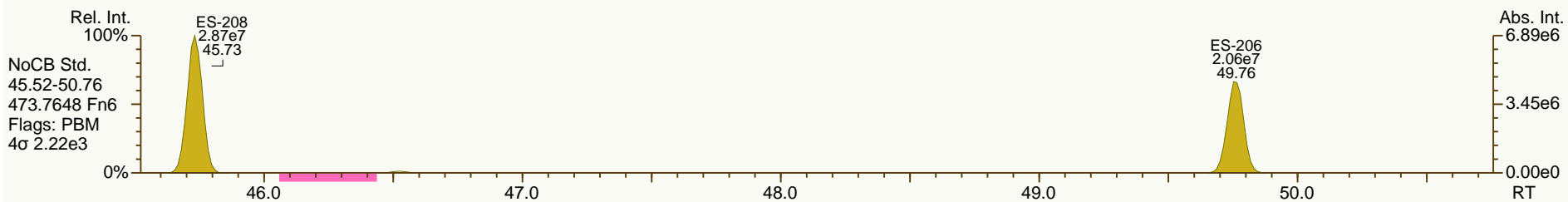
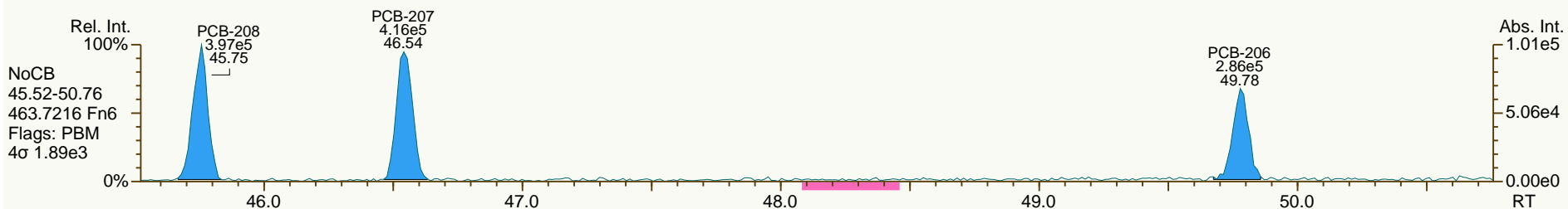
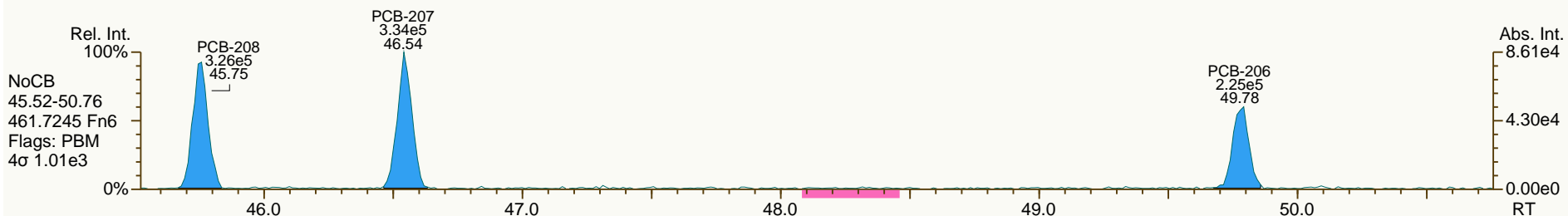




SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

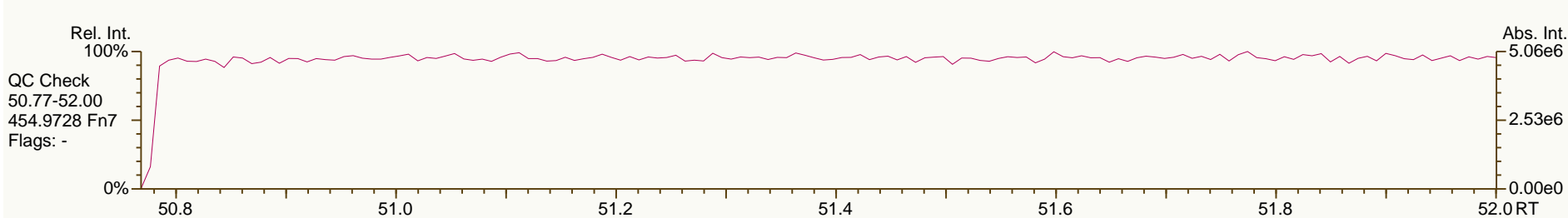
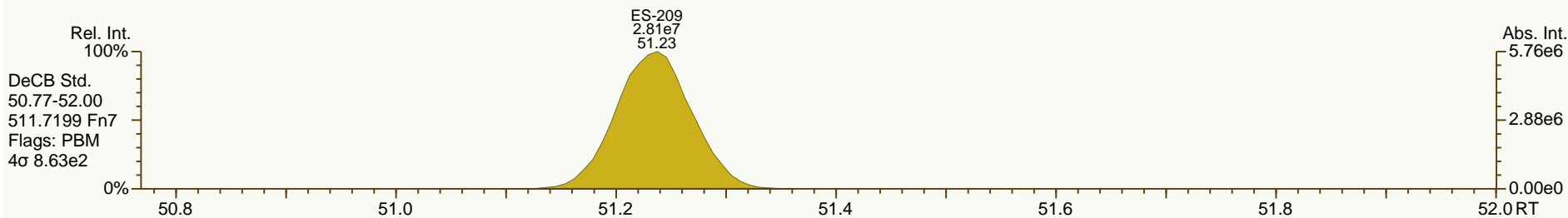
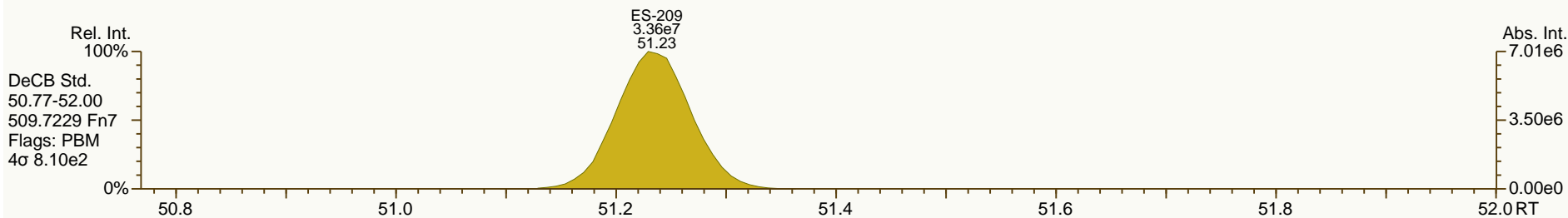
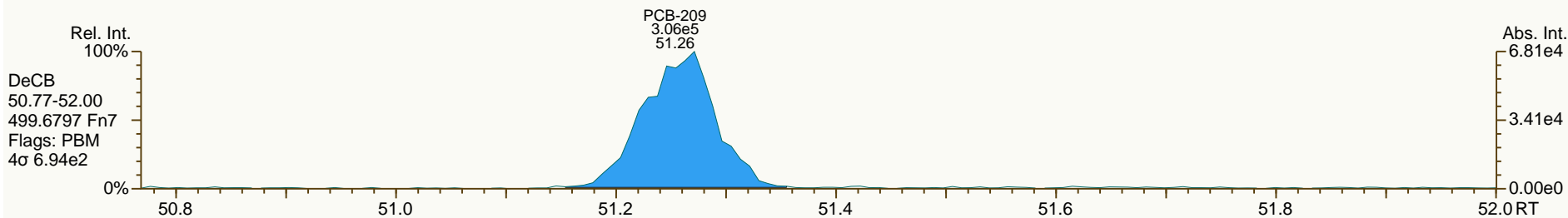
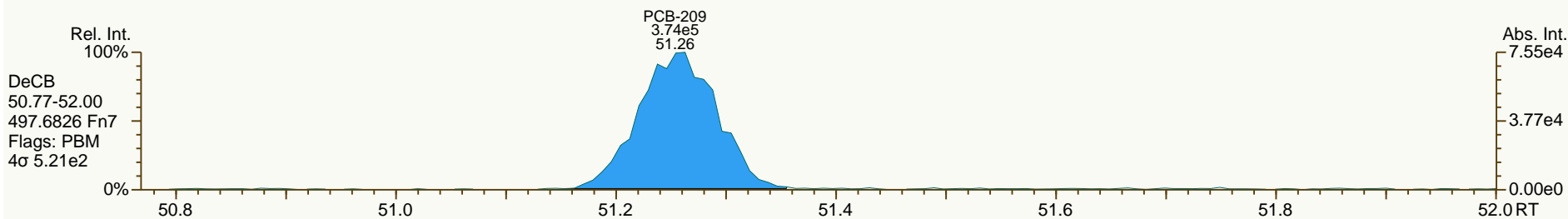
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	7.18E+06	0.79 Y	1.15	1.09	-5.2%	
PCB-81 344'5'-TeCB	32.63	6.81E+06	0.77 Y	1.12	1.08	-3.8%	
PCB-105 233'44'-PeCB	36.11	5.68E+06	0.64 Y	1.11	1.07	-4.0%	
PCB-114 2344'5'-PeCB	35.56	6.19E+06	0.62 Y	1.20	1.15	-4.1%	
PCB-118 23'44'5'-PeCB	35.10	5.72E+06	0.60 Y	1.19	1.13	-5.1%	
PCB-123 23'44'5'-PeCB	34.82	5.95E+06	0.63 Y	1.21	1.16	-3.9%	
PCB-126 33'44'5'-PeCB	38.72	4.77E+06	0.62 Y	1.11	1.05	-5.1%	
PCB-156/157 ...-HxCB	41.28	9.62E+06	1.25 Y	1.10	1.05	-4.7%	
PCB-167 23'44'55'-HxCB	40.29	5.42E+06	1.21 Y	1.16	1.12	-3.2%	
PCB-169 33'44'55'-HxCB	44.00	4.85E+06	1.23 Y	1.12	1.09	-3.1%	
PCB-189 233'44'55'-HpCB	46.13	4.61E+06	1.02 Y	1.07	1.03	-3.6%	
PCB-209 DeCB	51.25	3.38E+06	1.17 Y	1.11	1.06	-4.8%	
ES PCB-1	12.04	2.39E+08	3.26 Y	1.19	1.21	1.3%	
ES PCB-3	14.36	2.19E+08	3.37 Y	1.09	1.10	1.5%	
ES PCB-4	14.61	1.04E+08	1.62 Y	0.52	0.53	0.5%	
ES PCB-15	20.38	2.08E+08	1.56 Y	1.04	1.05	0.9%	
ES PCB-19	17.73	1.01E+08	1.08 Y	0.51	0.51	0.4%	
ES PCB-37	26.74	1.56E+08	1.09 Y	1.66	1.68	1.0%	
ES PCB-54	20.66	8.13E+07	0.82 Y	0.86	0.88	1.7%	
ES PCB-77	33.09	1.31E+08	0.80 Y	1.38	1.42	2.5%	
ES PCB-81	32.61	1.27E+08	0.80 Y	1.37	1.36	-0.2%	
ES PCB-104	25.67	7.00E+07	1.67 Y	0.80	0.82	2.2%	
ES PCB-105	36.08	1.06E+08	1.61 Y	1.20	1.25	3.7%	
ES PCB-114	35.54	1.07E+08	1.65 Y	1.22	1.26	3.3%	
ES PCB-118	35.07	1.01E+08	1.61 Y	1.16	1.19	2.4%	
ES PCB-123	34.79	1.02E+08	1.58 Y	1.19	1.20	1.1%	
ES PCB-126	38.70	9.09E+07	1.58 Y	1.03	1.07	3.7%	
ES PCB-153	36.66	6.37E+07	1.31 Y	1.11	1.13	1.3%	
ES PCB-155	30.64	9.19E+07	1.33 Y	1.59	1.63	2.5%	
ES PCB-156/157	41.26	1.84E+08	1.30 Y	1.60	1.63	1.9%	
ES PCB-167	40.27	9.64E+07	1.30 Y	1.67	1.71	2.3%	
ES PCB-169	43.98	8.90E+07	1.30 Y	1.56	1.58	1.3%	
ES PCB-170	43.49	5.32E+07	1.08 Y	0.95	0.96	1.0%	
ES PCB-180	42.42	6.31E+07	1.09 Y	1.14	1.13	-0.4%	
ES PCB-188	35.54	5.40E+07	1.06 Y	0.94	0.96	1.8%	
ES PCB-189	46.11	8.91E+07	1.03 Y	1.58	1.60	1.0%	
ES PCB-202	40.08	5.60E+07	0.94 Y	0.97	0.99	2.3%	
ES PCB-205	48.28	7.02E+07	0.89 Y	1.24	1.26	1.3%	
ES PCB-206	49.75	4.73E+07	0.81 Y	0.83	0.85	2.3%	
ES PCB-208	45.73	6.67E+07	0.80 Y	1.17	1.20	1.9%	
ES PCB-209	51.23	6.37E+07	1.19 Y	1.11	1.14	3.2%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.73E+08	1.09 Y	1.11	1.11	-0.2%	
SS PCB-111	33.11	1.05E+08	1.62 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	3.27E+07	1.12 Y	0.62	0.61	-2.3%	
CS PCB-28	23.16	1.73E+08	1.09 Y	1.85	1.86	0.9%	
CS PCB-111	33.11	1.05E+08	1.62 Y	1.22	1.23	1.1%	
CS PCB-178	38.10	3.27E+07	1.12 Y	0.58	0.58	-0.5%	
JS PCB-9	16.61	1.98E+08	1.57 Y	-	-	-	
JS PCB-52	24.79	9.28E+07	0.79 Y	-	-	-	
JS PCB-101	30.81	8.53E+07	1.59 Y	-	-	-	
JS PCB-138	37.73	5.64E+07	1.31 Y	-	-	-	
JS PCB-194	47.88	5.57E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-2 3-MoCB	14.18	1.07E+07	3.30 Y	1.03	0.98	-5.2%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-10 26'-DiCB	14.81	1.01E+07	1.59 Y	1.98	1.93	-2.5%	
PCB-9 25'-DiCB	16.63	9.38E+06	1.58 Y	0.95	0.90	-4.6%	
PCB-7 24'-DiCB	16.80	1.06E+07	1.65 Y	1.05	1.02	-2.9%	
PCB-6 23'-DiCB	17.03	9.98E+06	1.58 Y	1.00	0.96	-3.7%	
PCB-5 23'-DiCB	17.33	1.00E+07	1.62 Y	1.00	0.96	-3.7%	
PCB-8 24'-DiCB	17.45	1.05E+07	1.60 Y	1.03	1.00	-2.7%	
PCB-14 35'-DiCB	19.02	1.19E+07	1.61 Y	1.18	1.15	-2.9%	
PCB-11 33'-DiCB	19.81	1.03E+07	1.64 Y	1.01	0.99	-1.9%	
PCB-13/12 34'/34'-DiCB	20.11	2.02E+07	1.61 Y	0.99	0.97	-1.7%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-30/18 246/22'5'-TrCB	19.52	1.52E+07	1.08 Y	1.54	1.51	-1.8%	
PCB-17 22'4'-TrCB	19.93	6.40E+06	1.08 Y	1.31	1.27	-2.7%	
PCB-27 23'6'-TrCB	20.12	8.92E+06	1.07 Y	1.82	1.77	-2.6%	
PCB-24 236'-TrCB	20.26	8.42E+06	1.05 Y	1.72	1.67	-3.0%	
PCB-16 22'3'-TrCB	20.35	5.03E+06	1.05 Y	1.01	1.00	-0.7%	
PCB-32 24'6'-TrCB	20.84	9.31E+06	1.07 Y	1.92	1.85	-3.7%	
PCB-34 23'5'-TrCB	21.99	8.68E+06	0.97 Y	1.14	1.11	-1.9%	
PCB-23 235'-TrCB	22.14	8.57E+06	1.00 Y	1.16	1.10	-4.7%	
PCB-26/29 23'5'/245'-TrCB	22.43	1.76E+07	0.99 Y	1.17	1.13	-3.4%	
PCB-25 23'4'-TrCB	22.63	8.79E+06	0.95 Y	1.16	1.13	-2.4%	
PCB-31 24'5'-TrCB	22.91	9.29E+06	0.97 Y	1.23	1.19	-2.7%	
PCB-28/20 244'/233'-TrCB	23.19	1.69E+07	1.00 Y	1.13	1.08	-4.3%	
PCB-21/33 234'/23'4'-TrCB	23.38	1.76E+07	0.99 Y	1.17	1.13	-3.7%	
PCB-22 234'-TrCB	23.75	8.06E+06	1.00 Y	1.08	1.04	-4.1%	
PCB-36 33'5'-TrCB	25.14	8.80E+06	0.98 Y	1.17	1.13	-3.4%	
PCB-39 34'5'-TrCB	25.46	9.00E+06	0.97 Y	1.21	1.16	-4.5%	
PCB-38 345'-TrCB	26.00	8.25E+06	0.97 Y	1.10	1.06	-4.0%	
PCB-35 33'4'-TrCB	26.39	7.78E+06	1.00 Y	1.04	1.00	-3.9%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.07E+07	0.80 Y	0.88	0.84	-3.9%	
PCB-45 22'36'-TeCB	23.27	4.46E+06	0.79 Y	0.77	0.70	-8.2%	
PCB-51 22'46'-TeCB	23.34	5.62E+06	0.80 Y	0.86	0.89	3.3%	
PCB-46 22'36'-TeCB	23.55	4.33E+06	0.78 Y	0.70	0.68	-2.0%	
PCB-52 22'55'-TeCB	24.82	5.19E+06	0.79 Y	0.84	0.82	-2.8%	
PCB-73 23'5'6'-TeCB	24.94	6.70E+06	0.79 Y	1.11	1.06	-4.8%	
PCB-43 22'35'-TeCB	25.04	4.56E+06	0.75 Y	0.71	0.72	1.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	1.26E+07	0.79 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	5.24E+06	0.81 Y	0.84	0.83	-1.3%	
PCB-44/47/65 ...-TeCB	25.74	1.64E+07	0.78 Y	0.90	0.86	-4.4%	
PCB-59/62/75 ...-TeCB	26.02	2.14E+07	0.79 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.18	4.75E+06	0.78 Y	0.76	0.75	-1.7%	
PCB-41 22'34'-TeCB	26.52	4.38E+06	0.79 Y	0.69	0.69	-0.5%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.05E+07	0.81 Y	0.86	0.83	-3.8%	
PCB-64 234'6'-TeCB	26.81	7.49E+06	0.79 Y	1.22	1.18	-3.0%	
PCB-72 23'55'-TeCB	27.53	7.51E+06	0.80 Y	1.21	1.19	-1.9%	
PCB-68 23'45'-TeCB	27.79	7.85E+06	0.75 Y	1.28	1.24	-2.8%	
PCB-57 233'5'-TeCB	28.16	7.33E+06	0.77 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.37	7.30E+06	0.76 Y	1.18	1.15	-2.1%	
PCB-67 23'45'-TeCB	28.52	7.81E+06	0.77 Y	1.26	1.23	-2.0%	
PCB-63 234'5'-TeCB	28.75	7.85E+06	0.76 Y	1.30	1.24	-4.4%	
PCB-61/70/74/76 ...-TeCB	29.05	2.94E+07	0.79 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.33	6.87E+06	0.76 Y	1.10	1.09	-1.5%	
PCB-55 233'4'-TeCB	29.47	7.07E+06	0.79 Y	1.12	1.12	-0.3%	
PCB-56 233'4'-TeCB	29.91	6.96E+06	0.77 Y	1.11	1.10	-1.0%	
PCB-60 2344'-TeCB	30.11	7.00E+06	0.78 Y	1.14	1.11	-2.5%	
PCB-80 33'55'-TeCB	30.43	8.09E+06	0.80 Y	1.31	1.28	-2.7%	
PCB-79 33'45'-TeCB	31.76	8.10E+06	0.78 Y	1.31	1.28	-2.0%	
PCB-78 33'45'-TeCB	32.25	6.61E+06	0.79 Y	1.06	1.04	-1.6%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-96 22'366'-PeCB	26.01	4.21E+06	0.65 Y	1.23	1.20	-2.0%	
PCB-103 22'45'6'-PeCB	27.71	4.65E+06	0.62 Y	0.93	0.91	-2.2%	
PCB-94 22'356'-PeCB	27.90	4.04E+06	0.63 Y	0.80	0.79	-1.3%	
PCB-95 22'35'6'-PeCB	28.28	4.36E+06	0.62 Y	0.87	0.85	-1.5%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	8.64E+06	0.63 Y	0.86	0.85	-2.1%	
PCB-102 22'456'-PeCB	28.61	5.08E+06	0.63 Y	0.97	0.99	2.6%	
PCB-98 22'34'6'-PeCB	28.68	3.64E+06	0.64 Y	0.76	0.71	-6.0%	
PCB-88 22'346'-PeCB	28.98	3.75E+06	0.65 Y	0.80	0.73	-8.2%	
PCB-91 22'34'6'-PeCB	29.04	4.80E+06	0.63 Y	0.94	0.94	-0.5%	
PCB-84 22'33'6'-PeCB	29.24	3.58E+06	0.61 Y	0.72	0.70	-2.1%	
PCB-89 22'346'-PeCB	29.66	3.81E+06	0.62 Y	0.76	0.75	-2.3%	
PCB-121 23'45'6'-PeCB	30.00	5.96E+06	0.63 Y	1.20	1.16	-2.9%	
PCB-92 22'355'-PeCB	30.32	4.05E+06	0.62 Y	0.82	0.79	-3.5%	
PCB-113/90/101 ...-PeCB	30.81	1.47E+07	0.63 Y	0.99	0.96	-2.5%	
PCB-83 22'33'5'-PeCB	31.25	3.64E+06	0.59 Y	0.71	0.71	-0.4%	
PCB-99 22'44'5'-PeCB	31.34	4.49E+06	0.64 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.44	5.95E+06	0.63 Y	1.17	1.16	-0.4%	
PCB-108/119/86/97/125...-PeCB	31.79	2.92E+07	0.62 Y	0.98	0.95	-2.9%	
PCB-117 234'56'-PeCB	32.33	5.88E+06	0.62 Y	1.14	1.15	1.1%	
PCB-116/85 23456/22'344'-PeCB	32.42	9.01E+06	0.64 Y	0.94	0.88	-6.3%	
PCB-110 233'4'6'-PeCB	32.53	5.43E+06	0.63 Y	1.12	1.06	-5.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.94E+06	0.60 Y	1.16	1.16	0.3%	
PCB-82 22'33'4-PeCB	32.82	3.45E+06	0.62 Y	0.70	0.67	-3.3%	
PCB-111 233'55'-PeCB	33.13	6.10E+06	0.63 Y	1.22	1.19	-2.3%	
PCB-120 23'455'-PeCB	33.53	6.04E+06	0.64 Y	1.21	1.18	-2.5%	
PCB-107/124 ...-PeCB	34.50	1.09E+07	0.62 Y	1.10	1.07	-2.9%	
PCB-109 233'46-PeCB	34.71	6.46E+06	0.62 Y	1.25	1.26	0.8%	
PCB-106 233'45-PeCB	34.93	5.32E+06	0.64 Y	1.11	1.04	-5.8%	
PCB-122 233'4'5'-PeCB	35.39	5.09E+06	0.64 Y	0.99	0.95	-4.5%	
PCB-127 33'455'-PeCB	37.34	5.46E+06	0.62 Y	1.10	1.03	-6.2%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-152 22'3566'-HxCB	30.82	5.18E+06	1.28 Y	1.17	1.13	-3.8%	
PCB-150 22'34'66'-HxCB	30.97	5.27E+06	1.27 Y	1.18	1.15	-2.5%	
PCB-136 22'33'66'-HxCB	31.27	4.80E+06	1.26 Y	1.07	1.04	-2.1%	
PCB-145 22'3466'-HxCB	31.55	4.89E+06	1.31 Y	1.11	1.06	-4.5%	
PCB-148 22'34'56'-HxCB	32.82	3.69E+06	1.28 Y	1.18	1.16	-2.2%	
PCB-151/135 ...-HxCB	33.34	7.14E+06	1.23 Y	1.14	1.12	-1.6%	
PCB-154 22'44'56'-HxCB	33.55	4.14E+06	1.24 Y	1.34	1.30	-3.2%	
PCB-144 22'345'6-HxCB	33.82	3.74E+06	1.28 Y	1.18	1.17	-0.8%	
PCB-147/149 ...-HxCB	34.12	7.38E+06	1.29 Y	1.18	1.16	-1.6%	
PCB-134 22'33'56-HxCB	34.29	2.81E+06	1.29 Y	0.92	0.88	-4.5%	
PCB-143 22'3456'-HxCB	34.38	3.63E+06	1.26 Y	1.13	1.14	0.8%	
PCB-139/140 ...-HxCB	34.64	7.45E+06	1.28 Y	1.21	1.17	-3.0%	
PCB-131 22'33'46-HxCB	34.82	3.13E+06	1.29 Y	1.03	0.98	-4.2%	
PCB-142 22'3456-HxCB	34.96	3.09E+06	1.24 Y	0.99	0.97	-1.9%	
PCB-132 22'33'46'-HxCB	35.20	3.22E+06	1.28 Y	1.03	1.01	-2.1%	
PCB-133 22'33'55'-HxCB	35.60	3.47E+06	1.26 Y	1.13	1.09	-3.9%	
PCB-165 233'55'6-HxCB	35.94	4.45E+06	1.24 Y	1.41	1.40	-0.9%	
PCB-146 22'34'55'-HxCB	36.16	3.72E+06	1.30 Y	1.20	1.17	-2.9%	
PCB-161 233'45'6-HxCB	36.28	4.78E+06	1.30 Y	1.52	1.50	-1.4%	
PCB-153/168 ...-HxCB	36.71	9.14E+06	1.28 Y	1.46	1.43	-1.6%	
PCB-141 22'3455'-HxCB	36.85	3.40E+06	1.30 Y	1.09	1.07	-2.0%	
PCB-130 22'33'45'-HxCB	37.20	3.05E+06	1.25 Y	0.97	0.96	-1.7%	
PCB-137 22'344'5-HxCB	37.40	3.51E+06	1.28 Y	1.16	1.10	-5.3%	
PCB-164 233'4'5'6-HxCB	37.48	4.84E+06	1.28 Y	1.50	1.52	1.3%	
PCB-163/138/129 ...-HxCB	37.77	1.09E+07	1.27 Y	1.19	1.14	-3.9%	
PCB-160 233'456-HxCB	37.91	4.74E+06	1.26 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.09	5.15E+06	1.28 Y	1.66	1.62	-2.7%	
PCB-128/166 ...-HxCB	38.83	8.23E+06	1.25 Y	0.90	0.85	-5.1%	
PCB-159 233'455'-HxCB	39.64	5.14E+06	1.24 Y	1.11	1.07	-4.4%	
PCB-162 233'4'55'-HxCB	39.88	4.97E+06	1.21 Y	1.07	1.03	-3.7%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-179 22'33'566'-HpCB	35.84	3.06E+06	1.09 Y	1.16	1.13	-2.3%	
PCB-184 22'344'66'-HpCB	36.30	2.96E+06	1.03 Y	1.13	1.10	-2.6%	

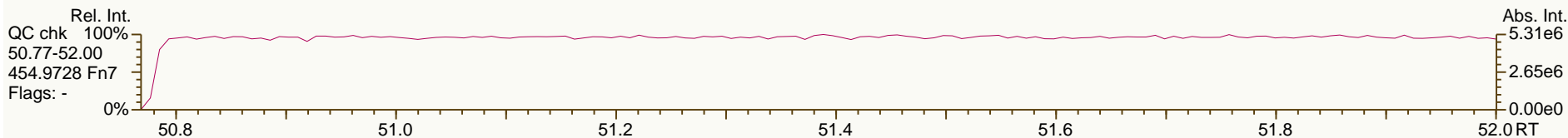
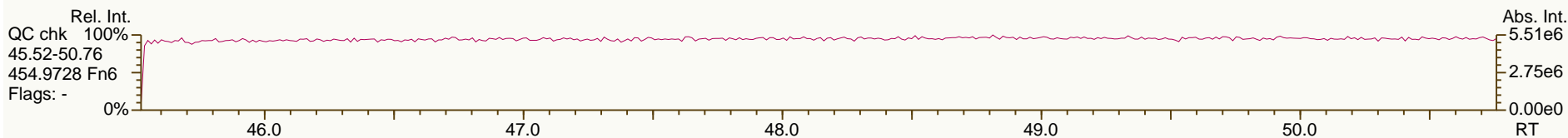
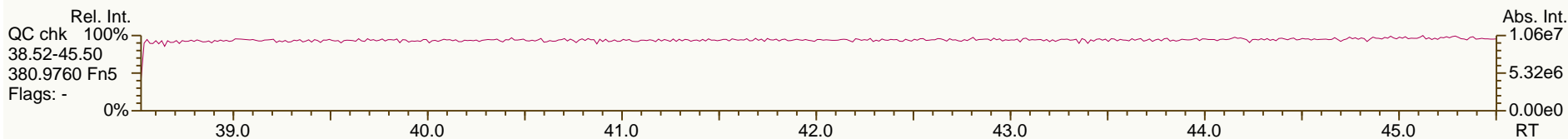
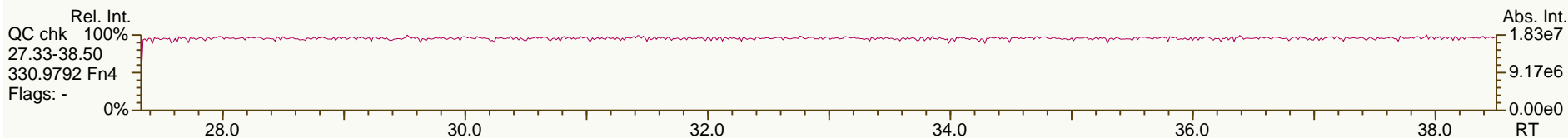
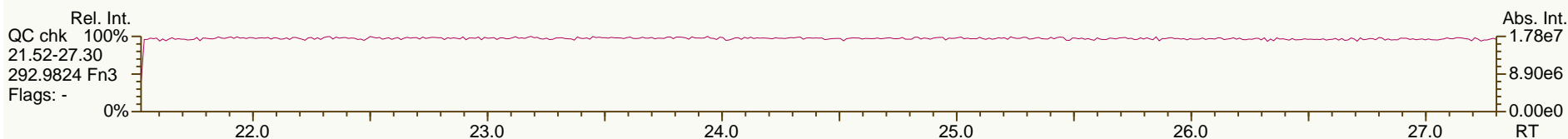
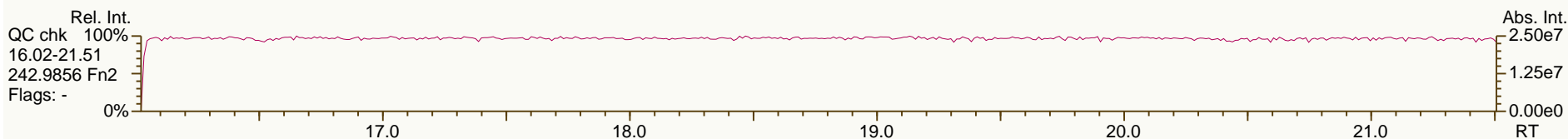
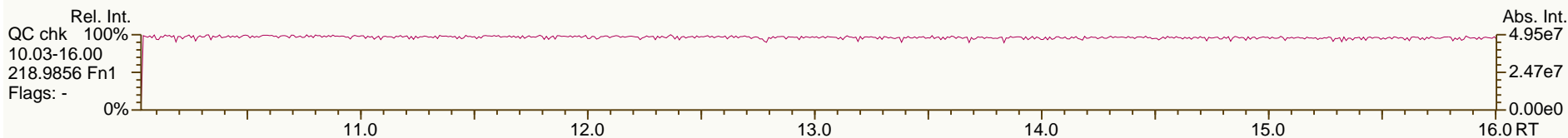
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.29E+06	1.07 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.00	2.98E+06	1.06 Y	1.13	1.10	-1.9%	
PCB-178 22'33'55'6'-HpCB	38.13	2.21E+06	1.08 Y	0.84	0.82	-2.7%	
PCB-175 22'33'45'6'-HpCB	38.67	3.31E+06	1.06 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.90	3.49E+06	0.96 Y	1.14	1.11	-2.9%	
PCB-182 22'344'56'-HpCB	39.08	3.67E+06	1.07 Y	1.18	1.16	-1.0%	
PCB-183 22'344'5'6'-HpCB	39.43	3.83E+06	1.05 Y	1.20	1.21	0.7%	
PCB-185 22'3455'6'-HpCB	39.52	3.13E+06	1.08 Y	1.06	0.99	-6.4%	
PCB-174 22'33'456'-HpCB	39.62	3.03E+06	1.07 Y	0.99	0.96	-2.8%	
PCB-177 22'33'45'6'-HpCB	40.00	2.93E+06	1.10 Y	0.95	0.93	-2.3%	
PCB-181 22'344'56'-HpCB	40.35	3.27E+06	1.08 Y	1.09	1.04	-4.9%	
PCB-171/173 ...-HpCB	40.53	5.79E+06	1.06 Y	0.95	0.92	-3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.98E+06	1.07 Y	0.99	0.95	-4.3%	
PCB-192 233'455'6'-HpCB	42.13	4.03E+06	1.06 Y	1.29	1.28	-0.7%	
PCB-180/193 ...-HpCB	42.41	7.75E+06	1.08 Y	1.26	1.23	-2.6%	
PCB-191 233'44'5'6'-HpCB	42.74	4.20E+06	1.05 Y	1.40	1.33	-4.6%	
PCB-170 22'33'44'5'-HpCB	43.51	2.91E+06	1.04 Y	1.14	1.09	-3.7%	
PCB-190 233'44'56'-HpCB	43.97	4.21E+06	1.06 Y	1.66	1.58	-4.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-201 22'33'45'66'-OcCB	40.89	3.33E+06	0.92 Y	1.22	1.19	-2.7%	
PCB-204 22'344'566'-OcCB	41.47	3.01E+06	0.94 Y	1.12	1.08	-3.6%	
PCB-197 22'33'44'66'-OcCB	41.66	3.09E+06	0.91 Y	1.19	1.11	-7.1%	
PCB-200 22'33'4566'-OcCB	41.75	3.13E+06	0.89 Y	1.11	1.12	1.0%	
PCB-198/199 ...-OcCB	44.08	4.38E+06	0.92 Y	0.81	0.78	-3.4%	
PCB-196 22'33'44'56'-OcCB	44.66	2.29E+06	0.94 Y	0.83	0.82	-1.8%	
PCB-203 22'344'55'6'-OcCB	44.83	2.39E+06	0.93 Y	0.87	0.85	-2.2%	
PCB-195 22'33'44'56'-OcCB	45.95	2.57E+06	0.90 Y	0.77	0.73	-4.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.84E+06	0.87 Y	0.84	0.81	-4.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-207 22'33'44'566'-NoCB	46.54	3.79E+06	0.76 Y	1.19	1.14	-4.4%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	



SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

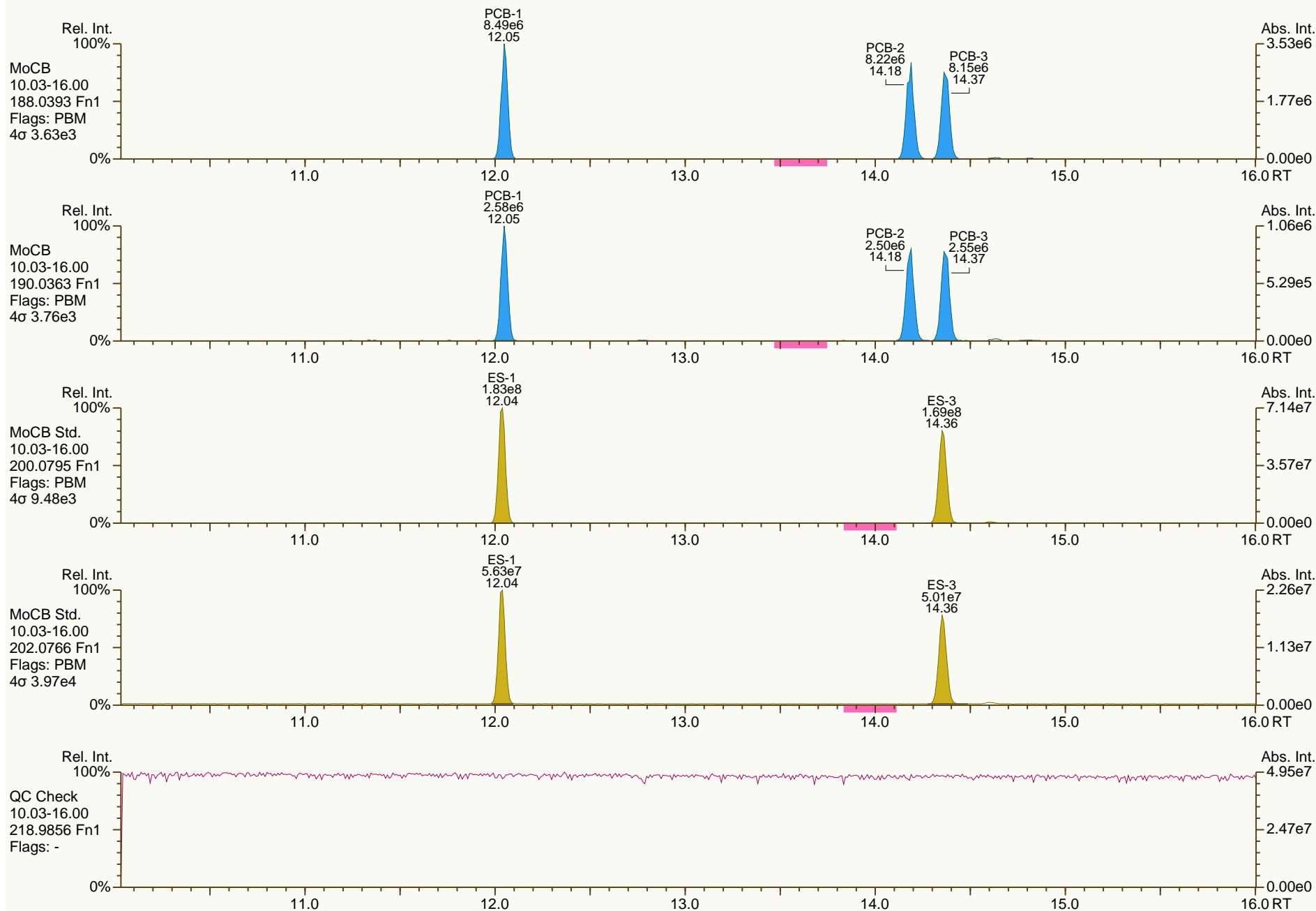
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

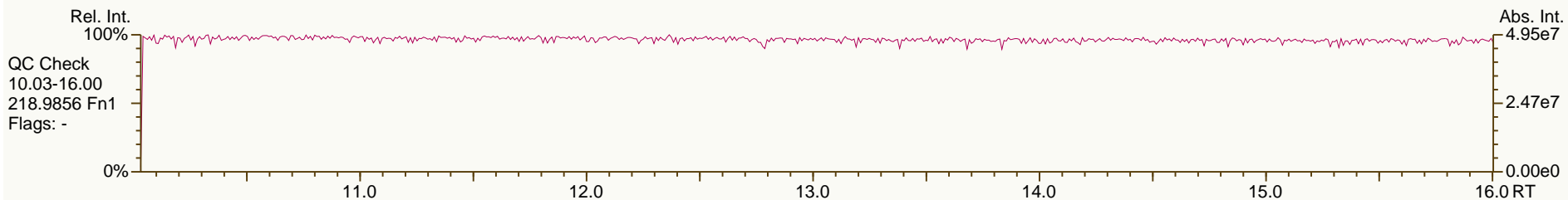
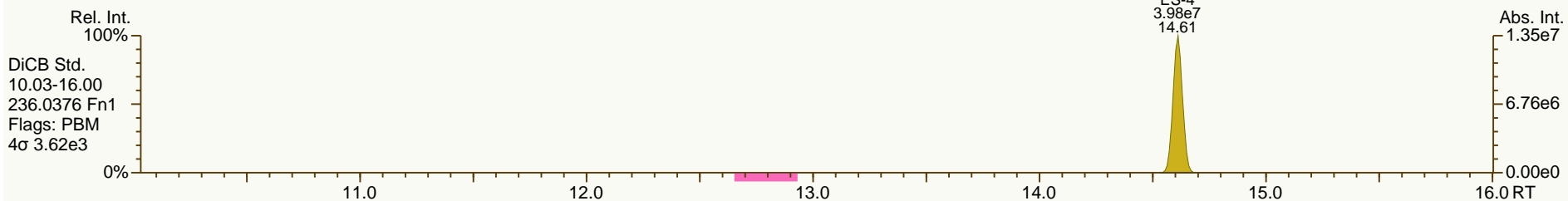
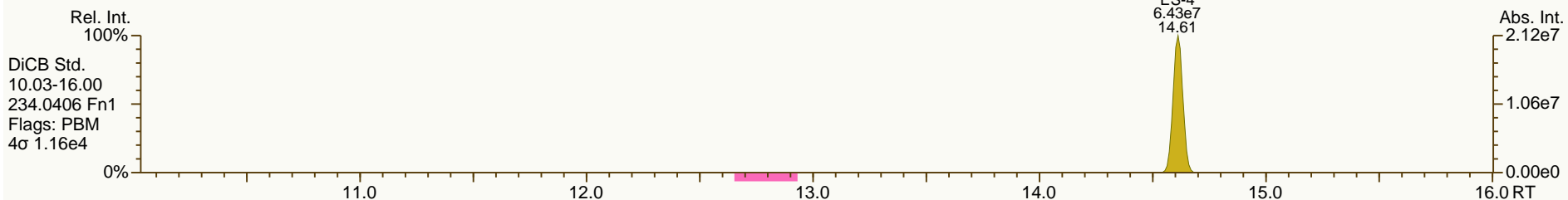
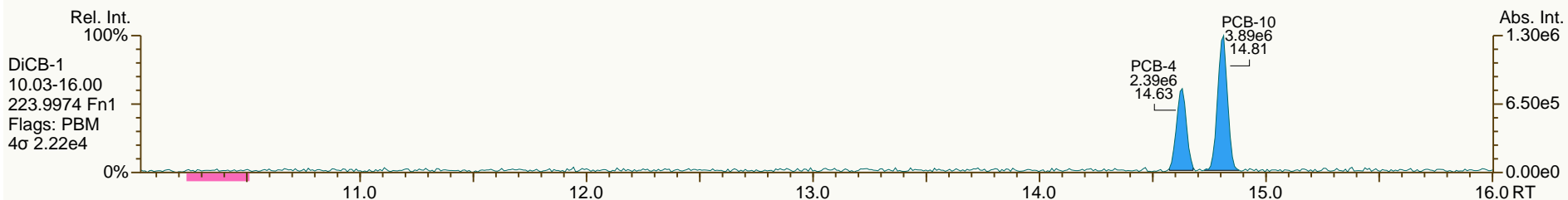
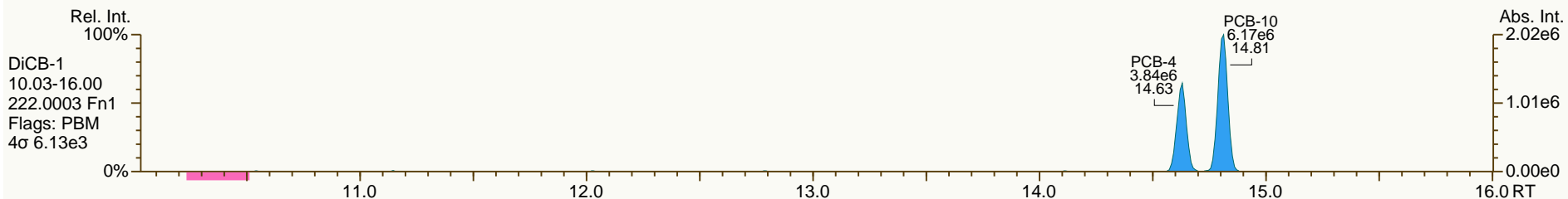
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

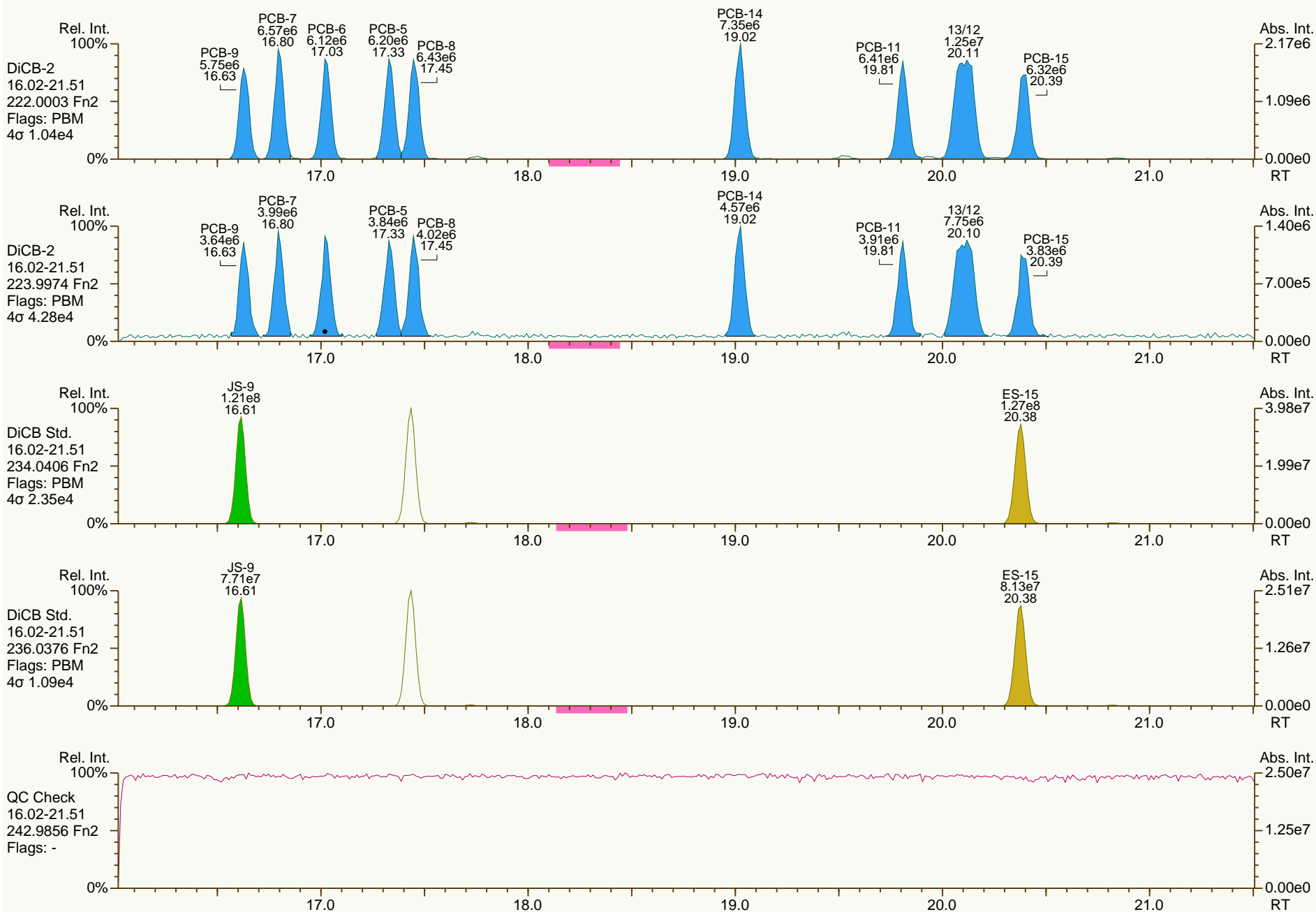
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

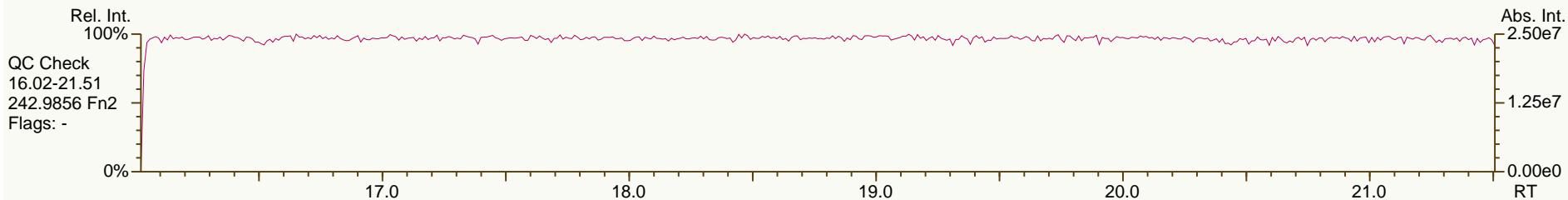
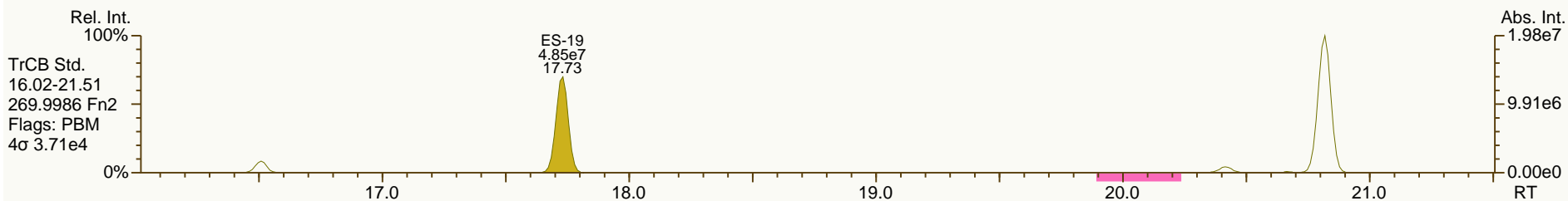
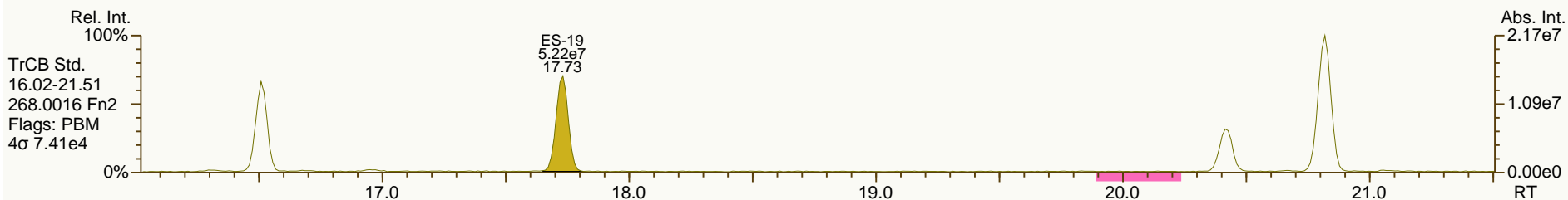
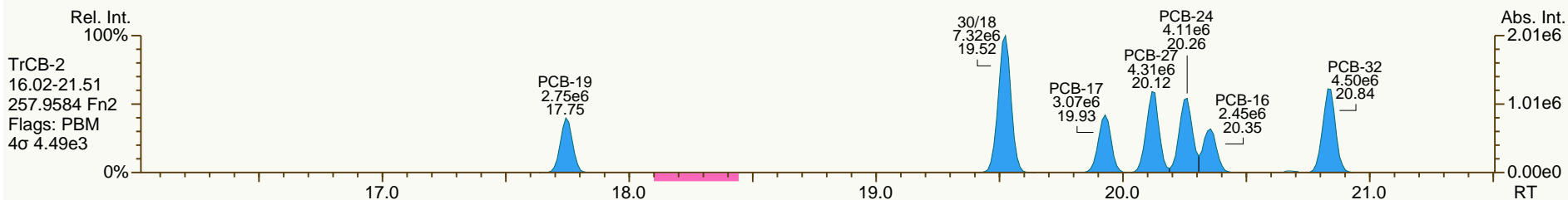
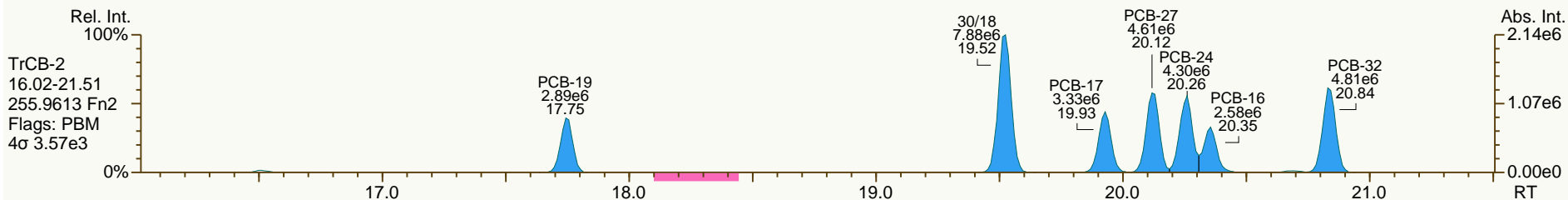
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

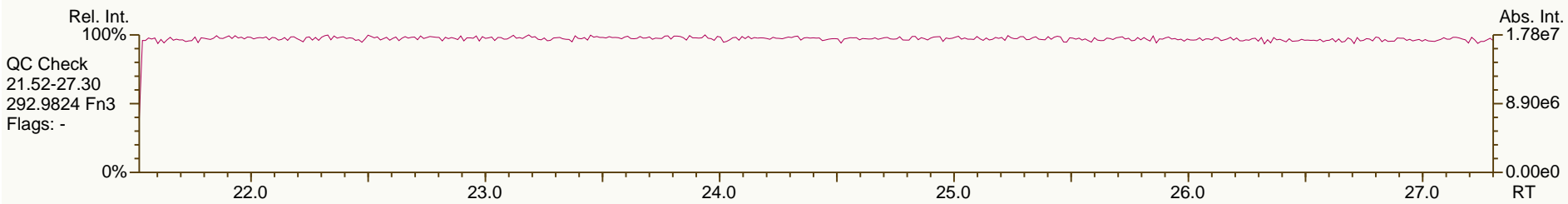
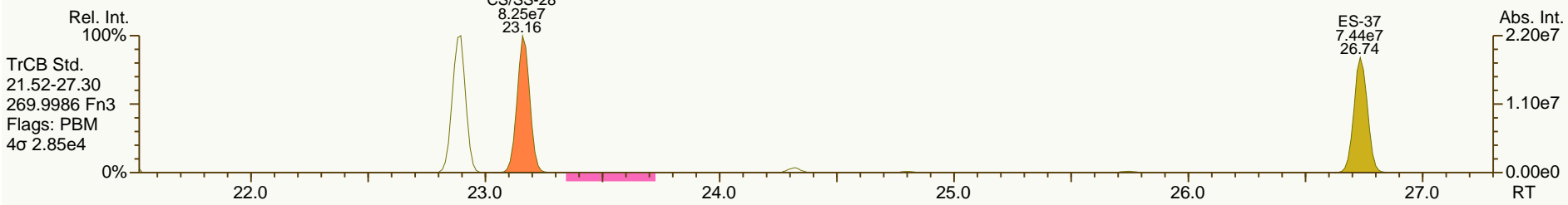
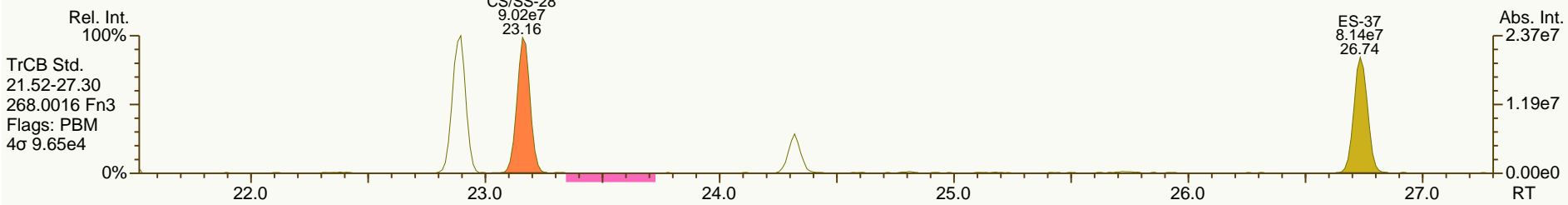
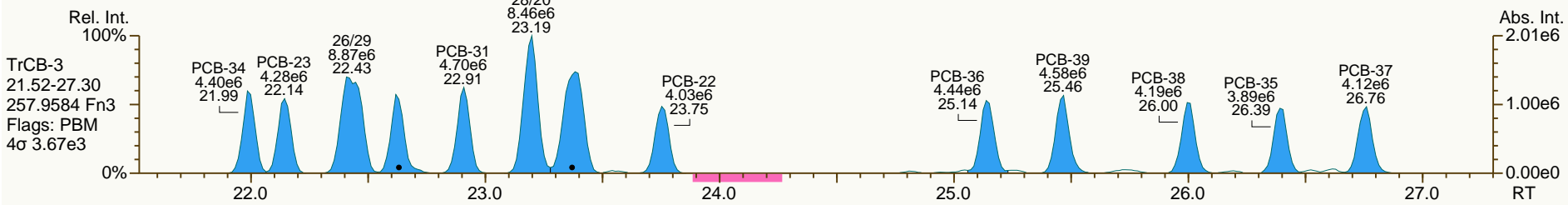
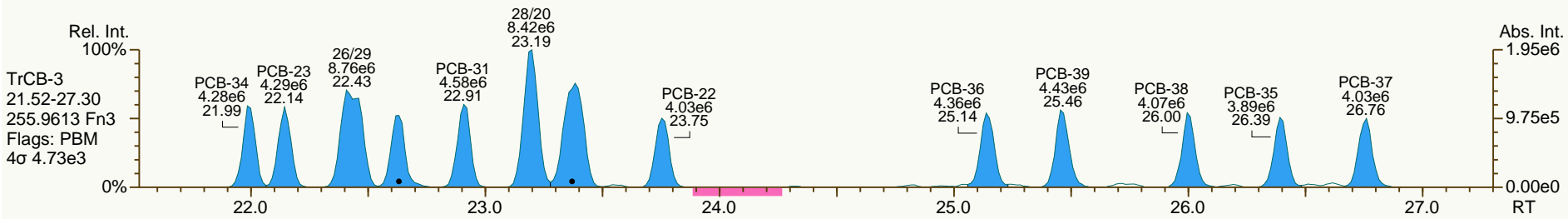
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
 User: LKB Datafile: 131220X04



SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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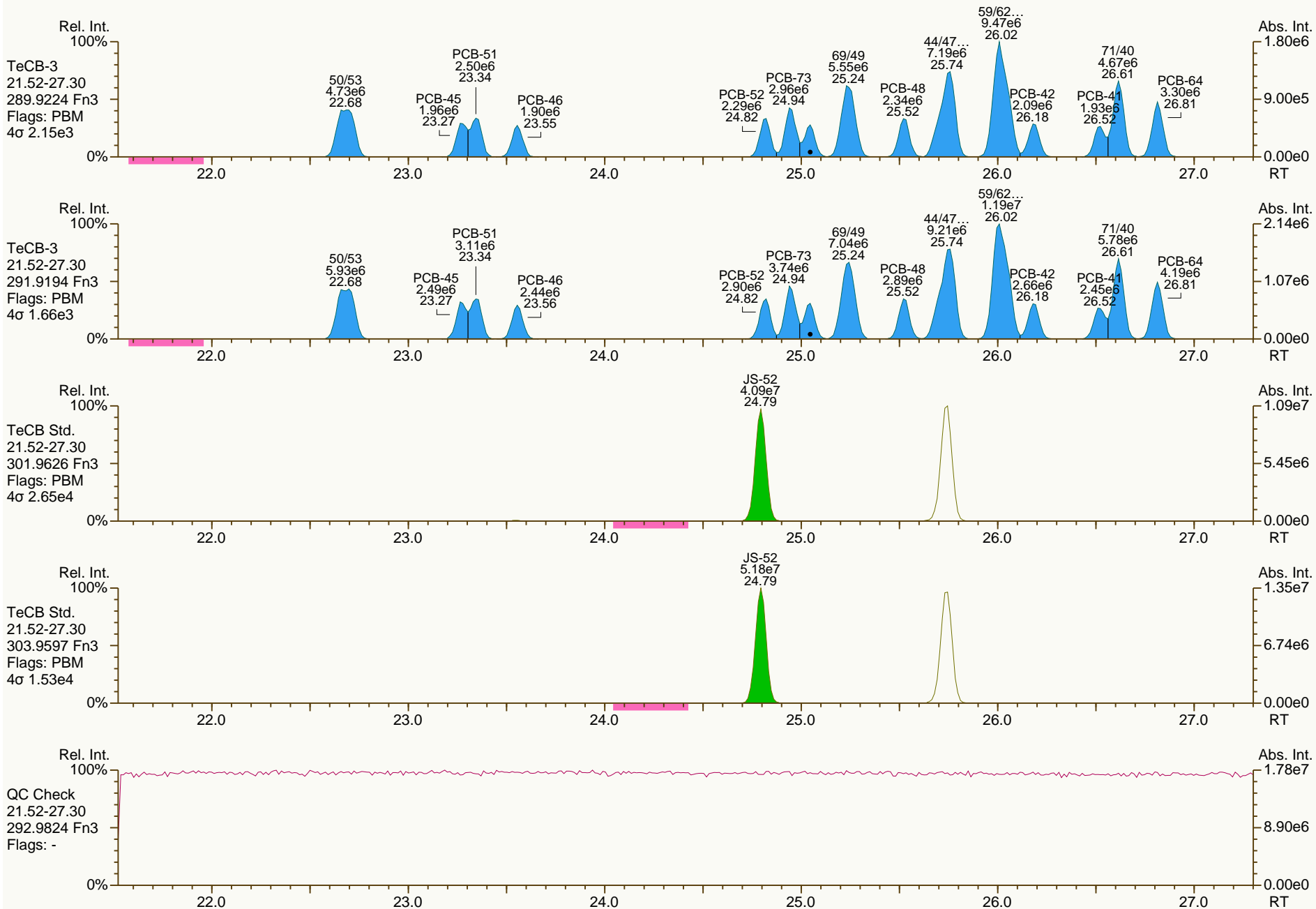
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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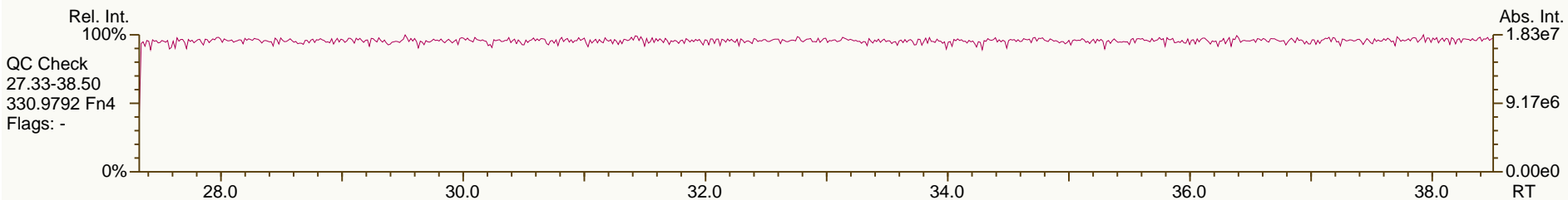
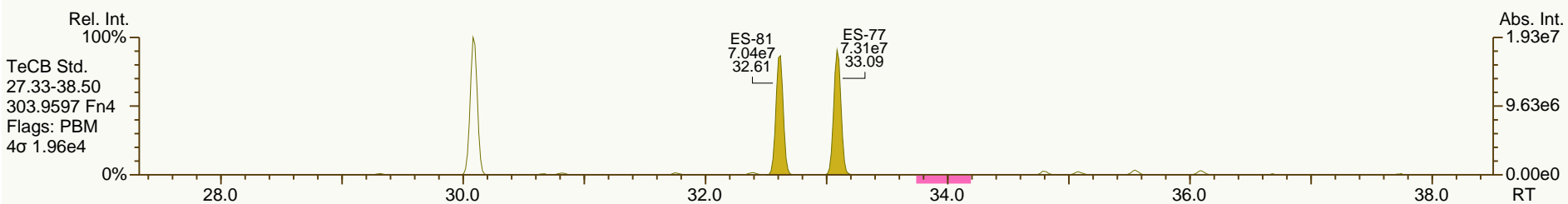
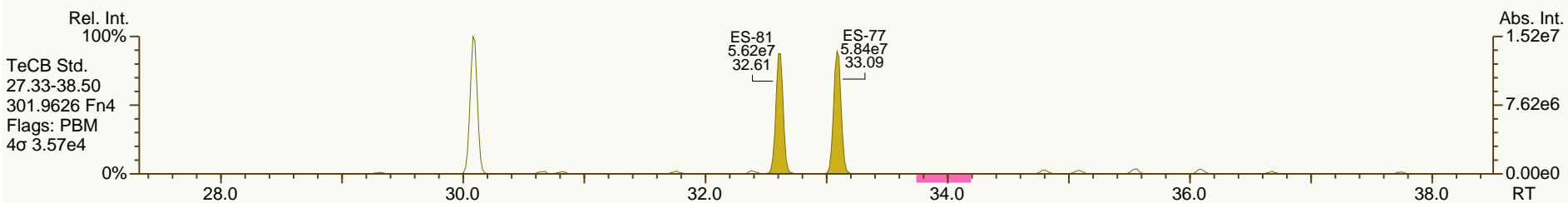
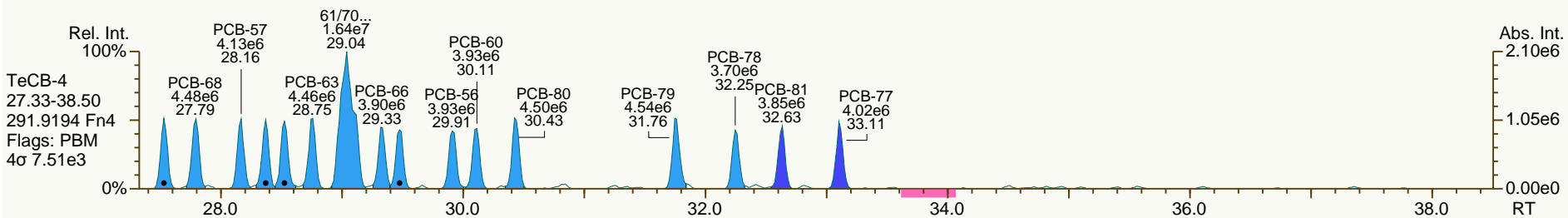
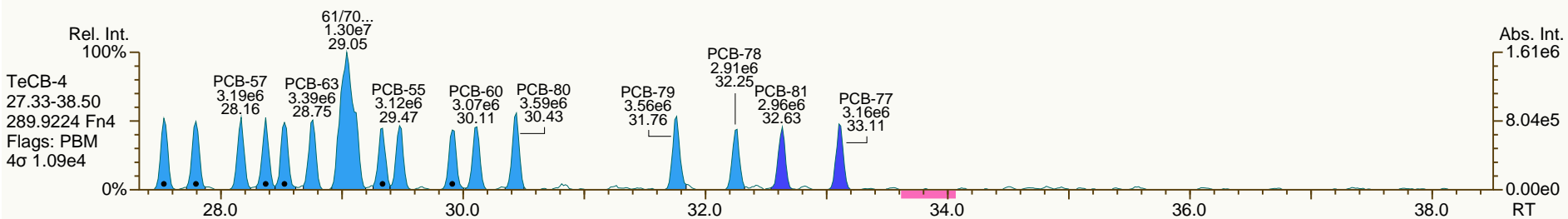




SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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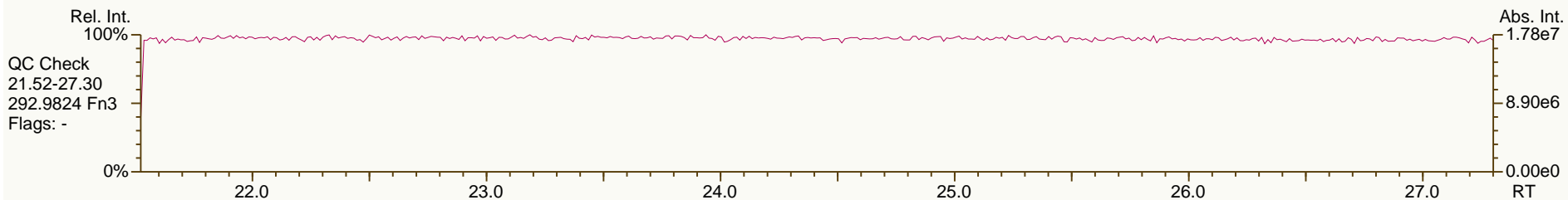
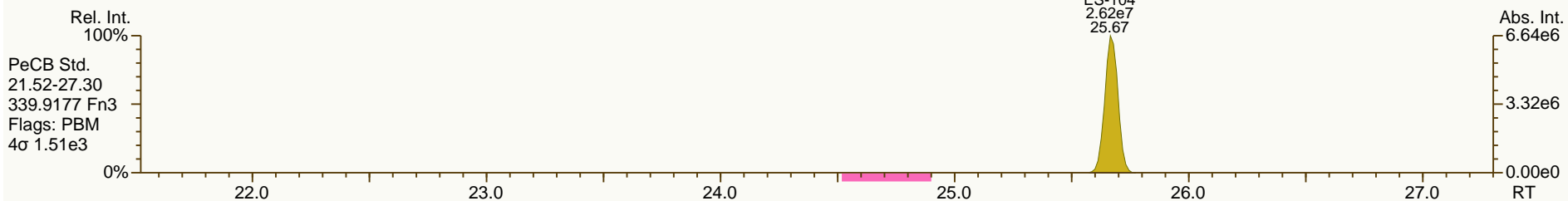
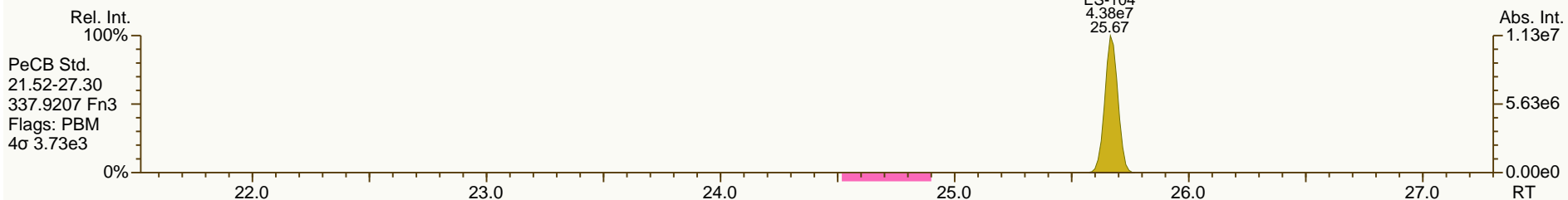
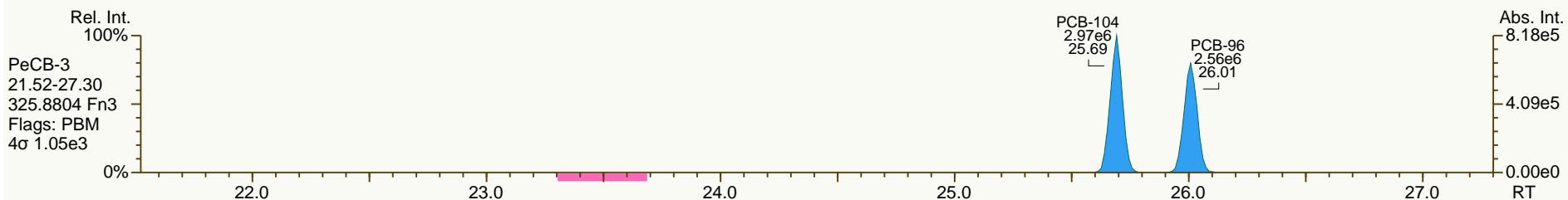
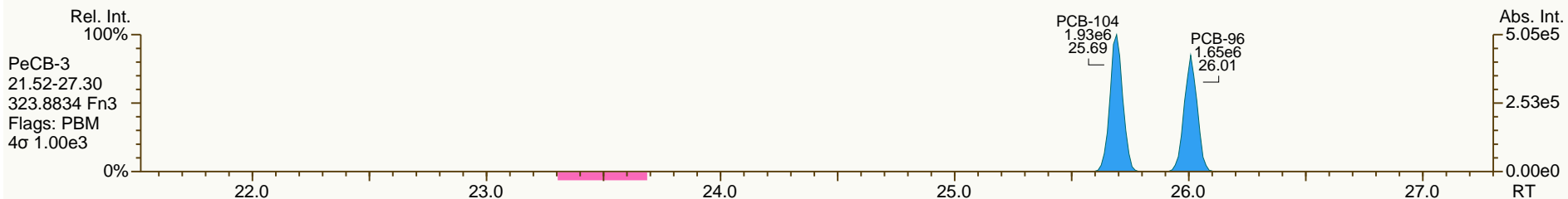
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

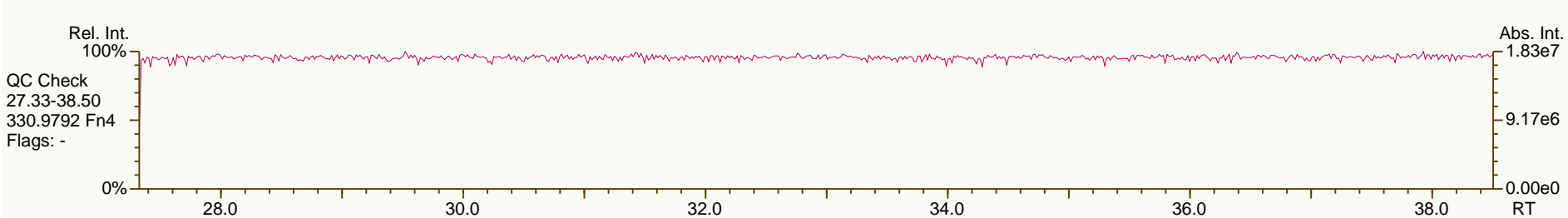
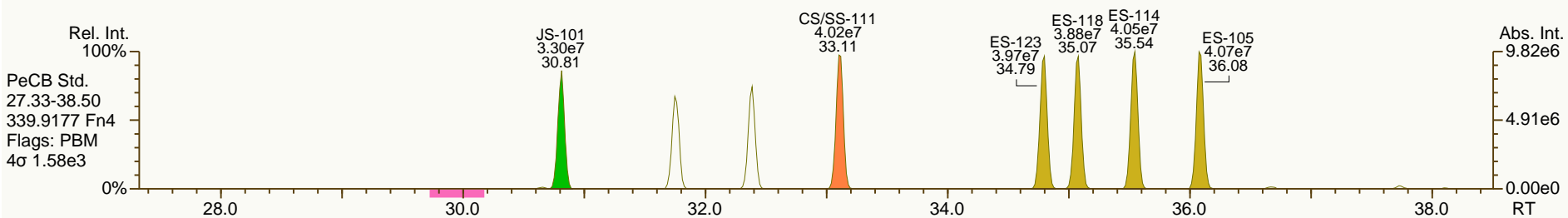
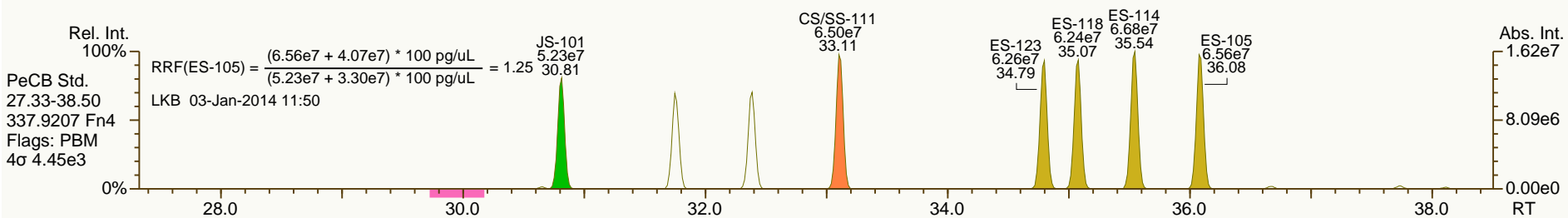
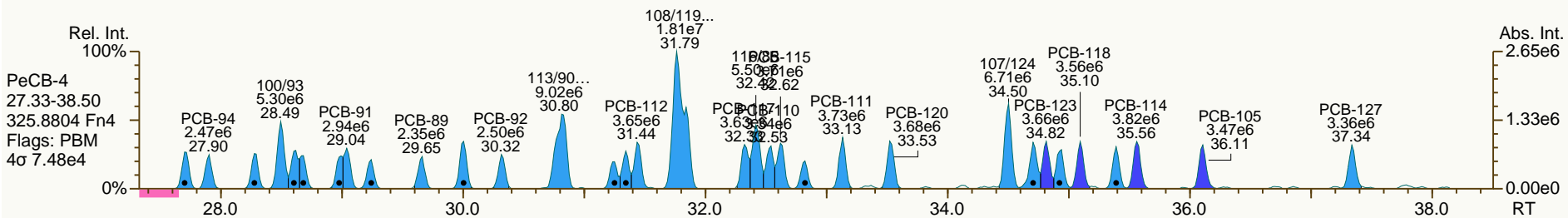
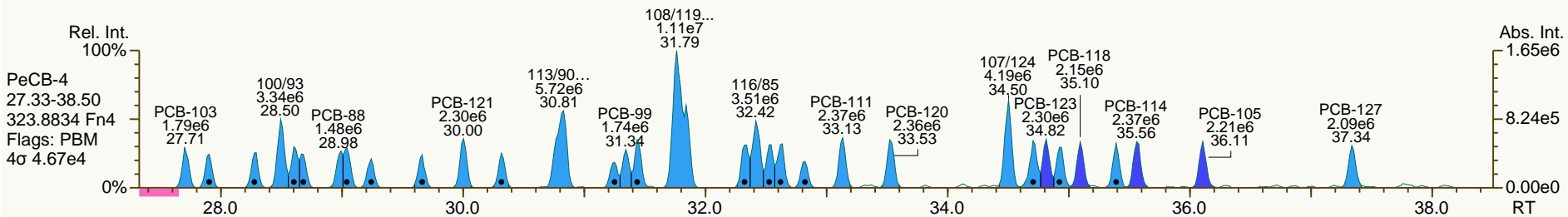
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

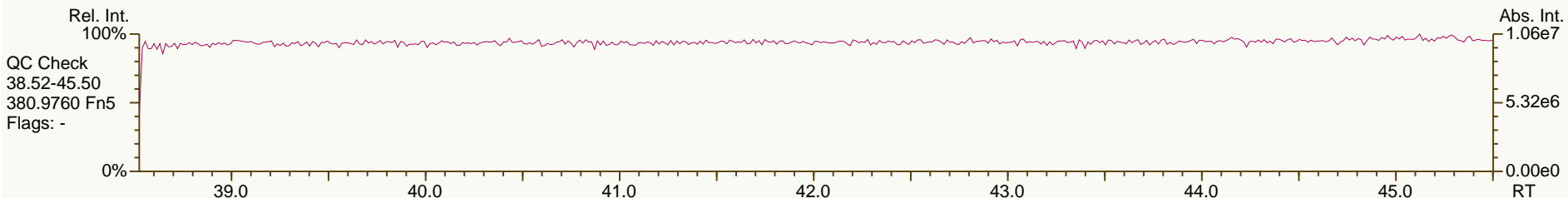
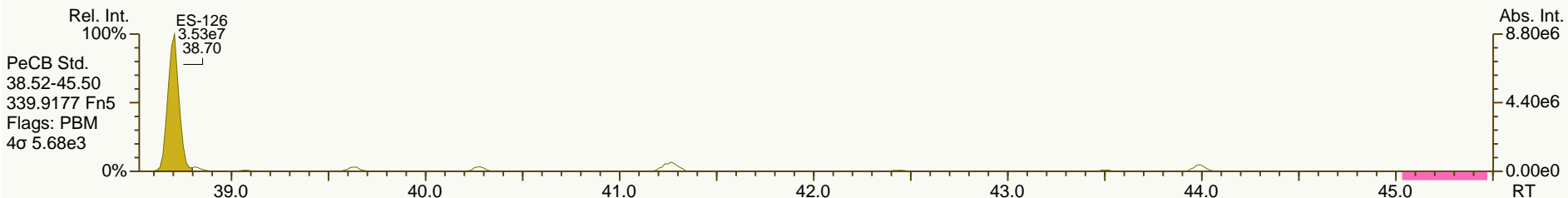
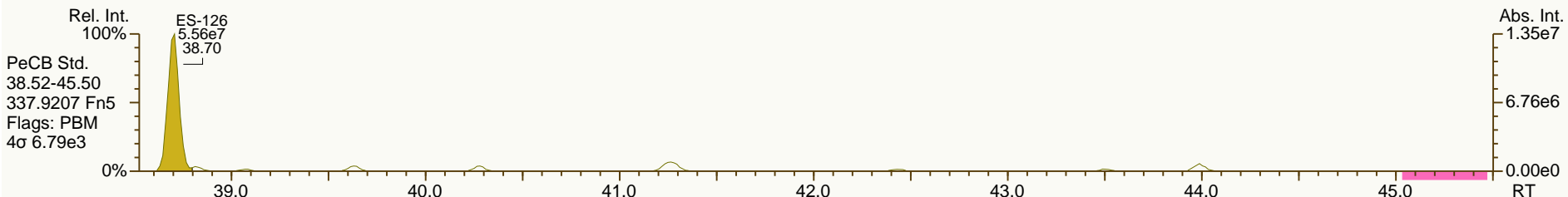
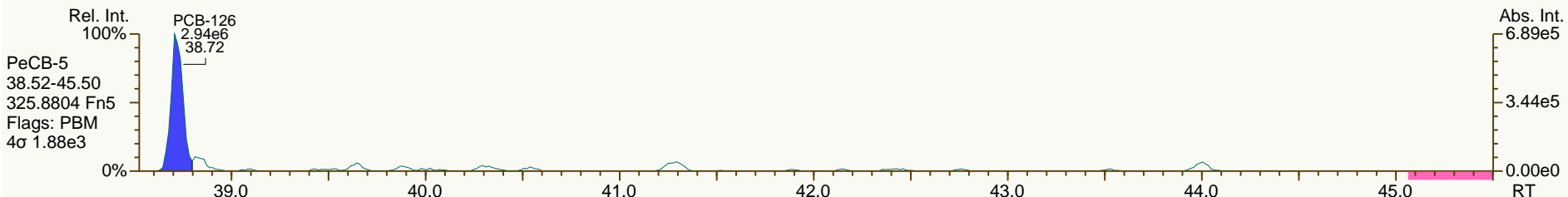
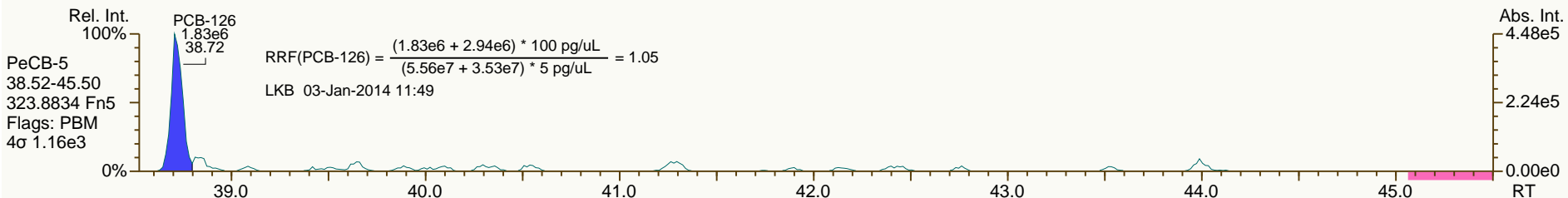
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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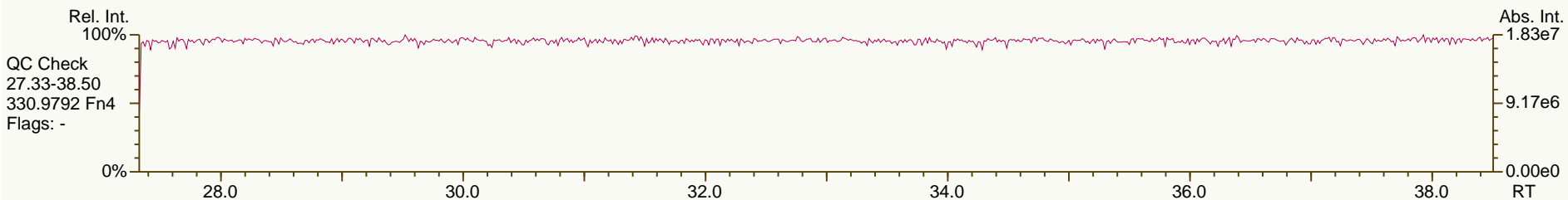
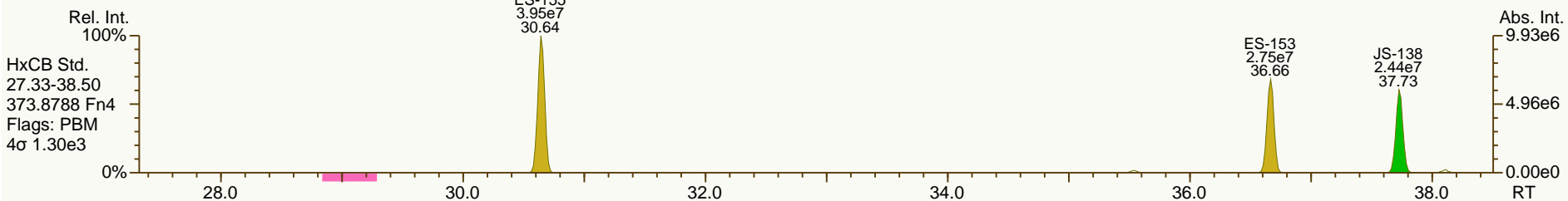
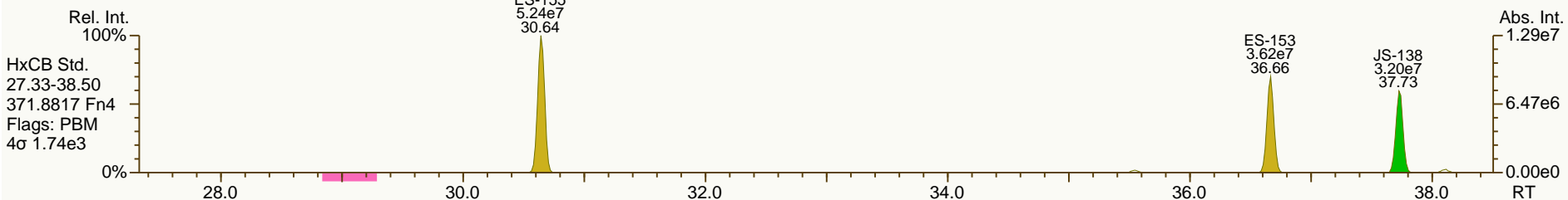
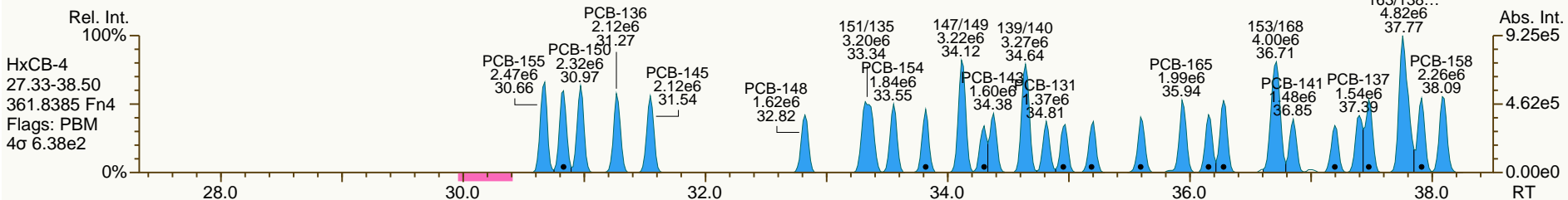
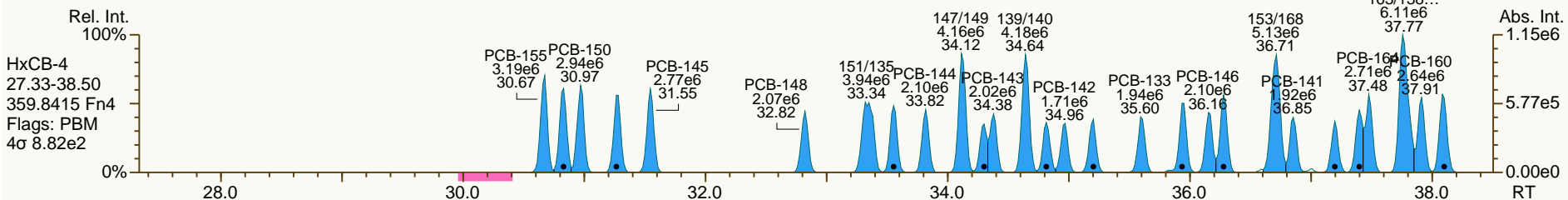
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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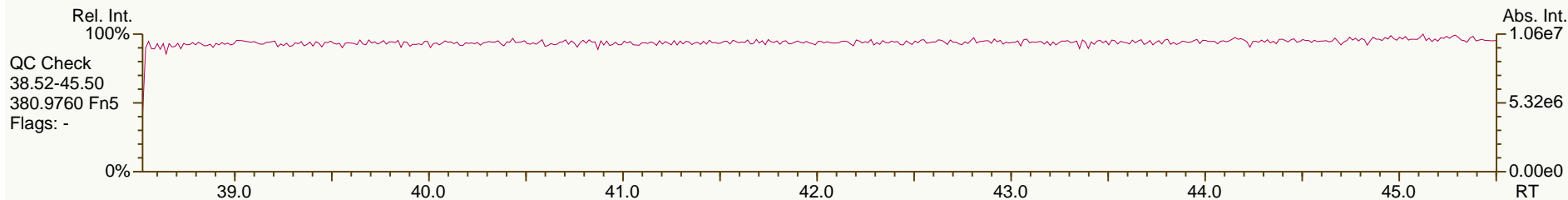
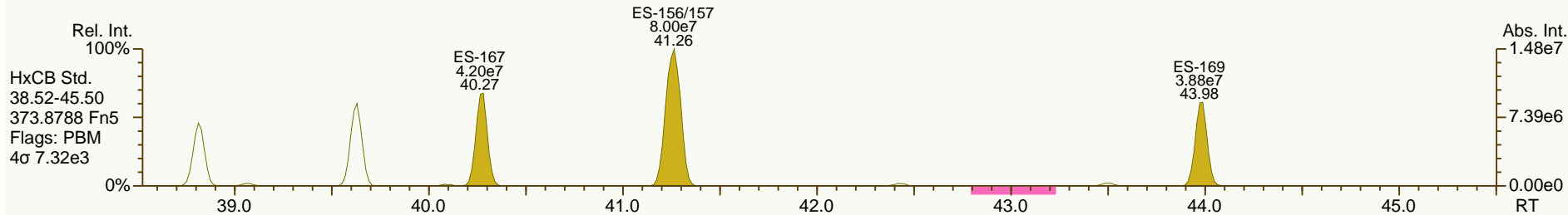
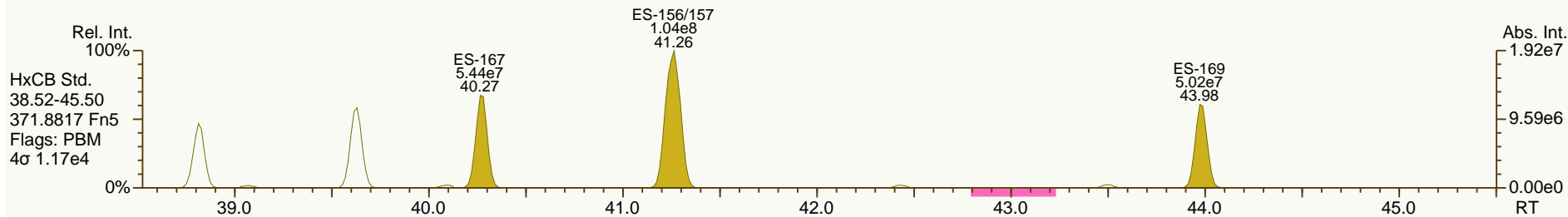
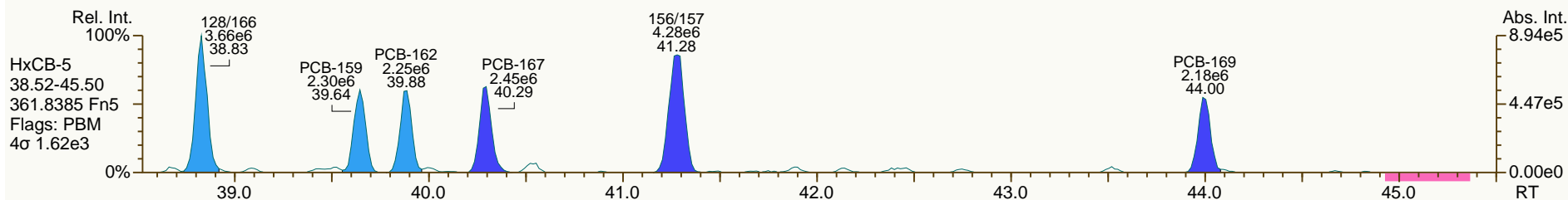
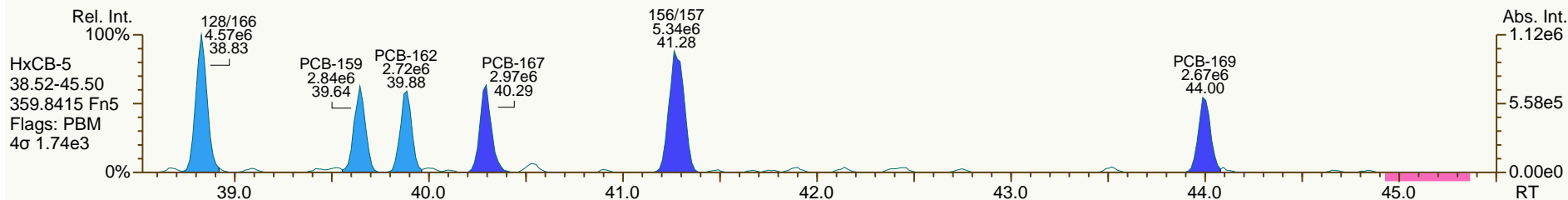
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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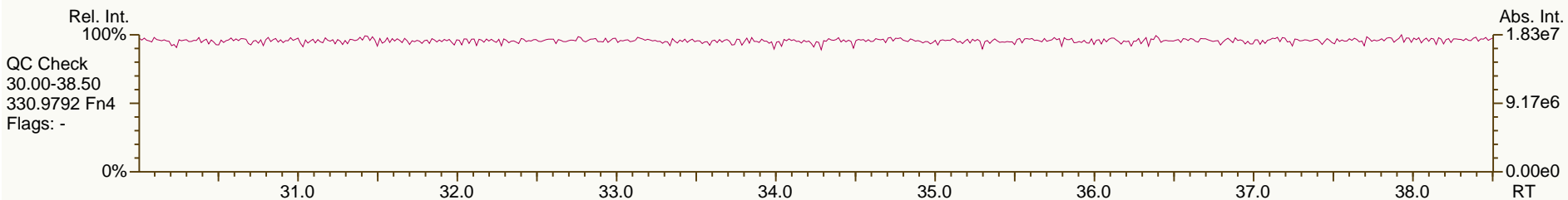
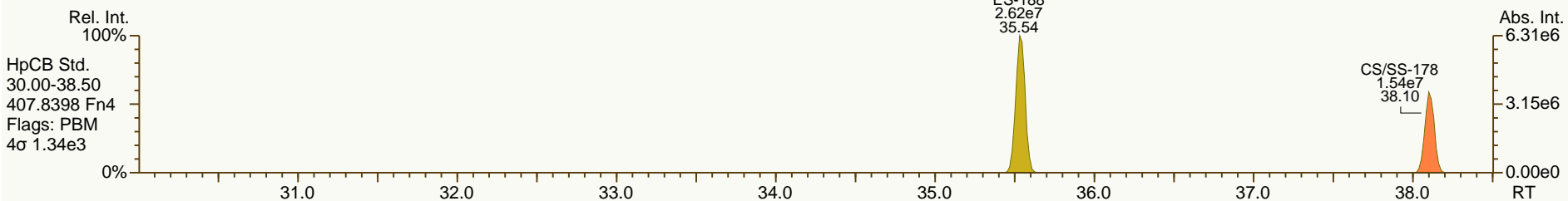
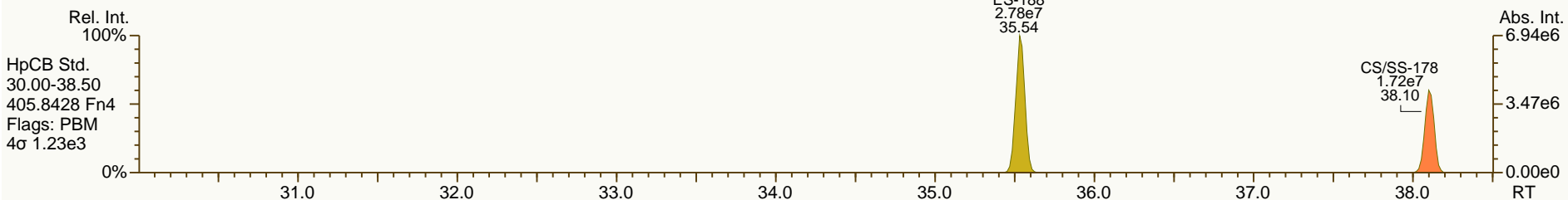
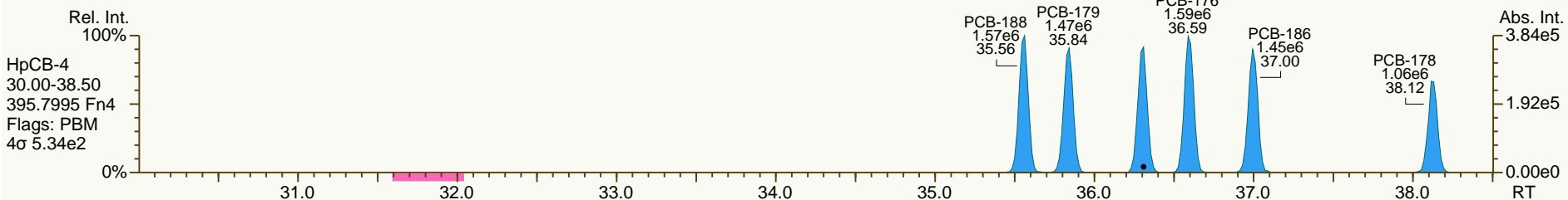
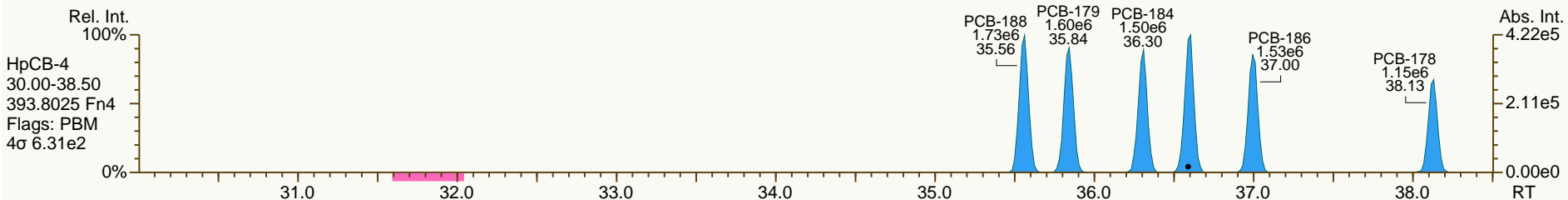
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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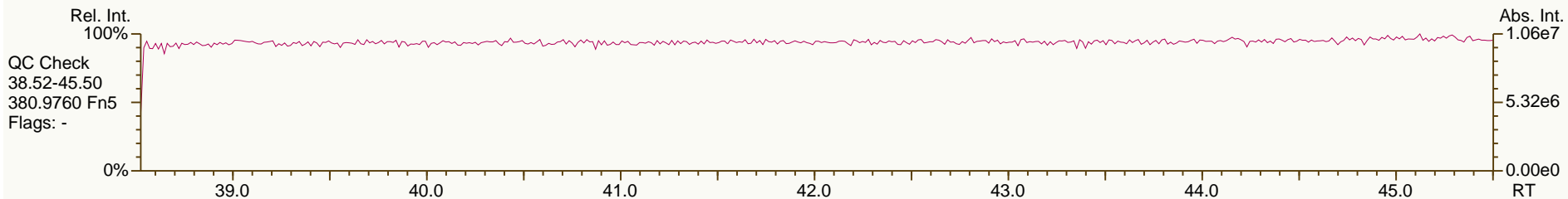
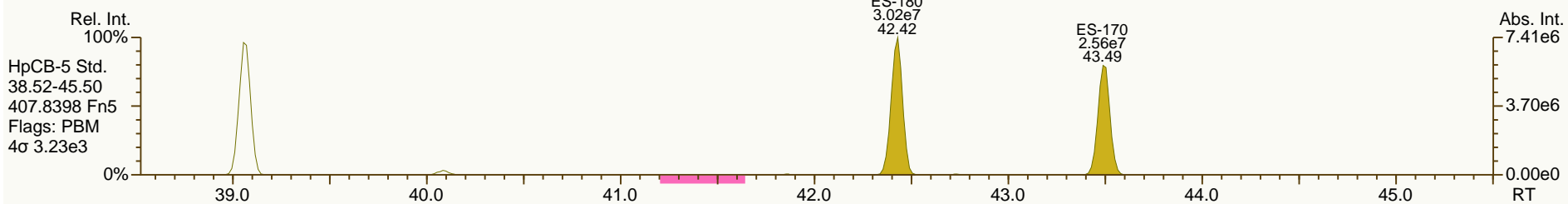
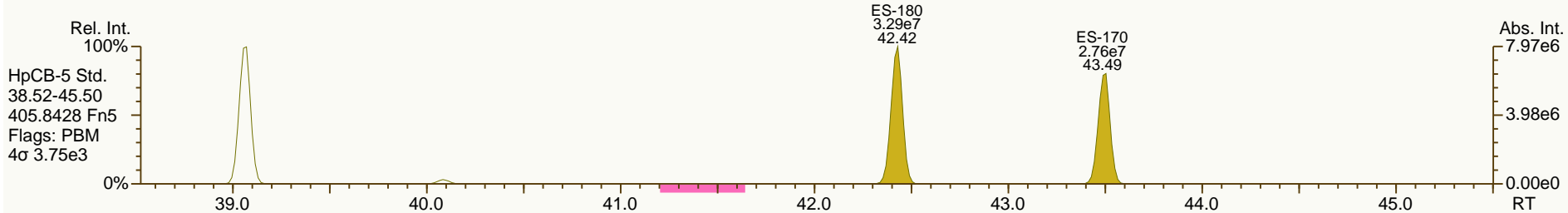
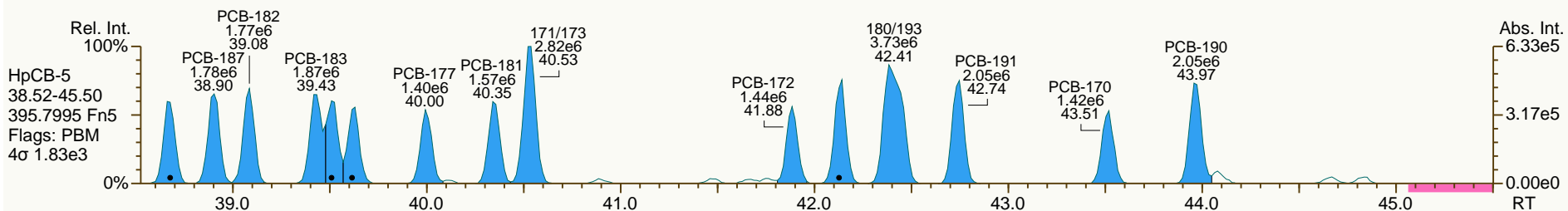
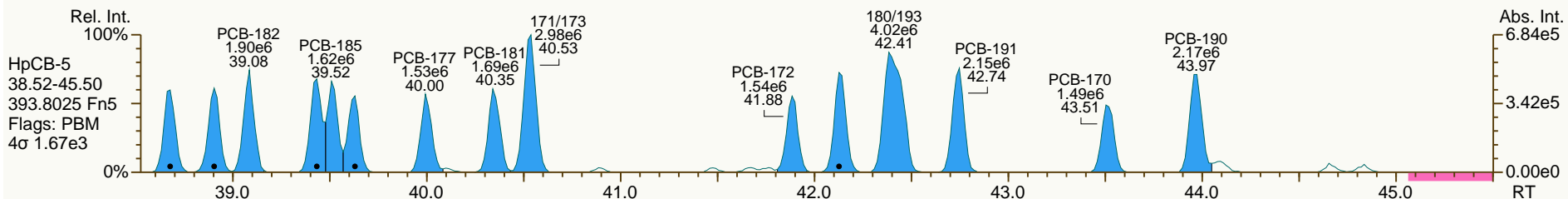
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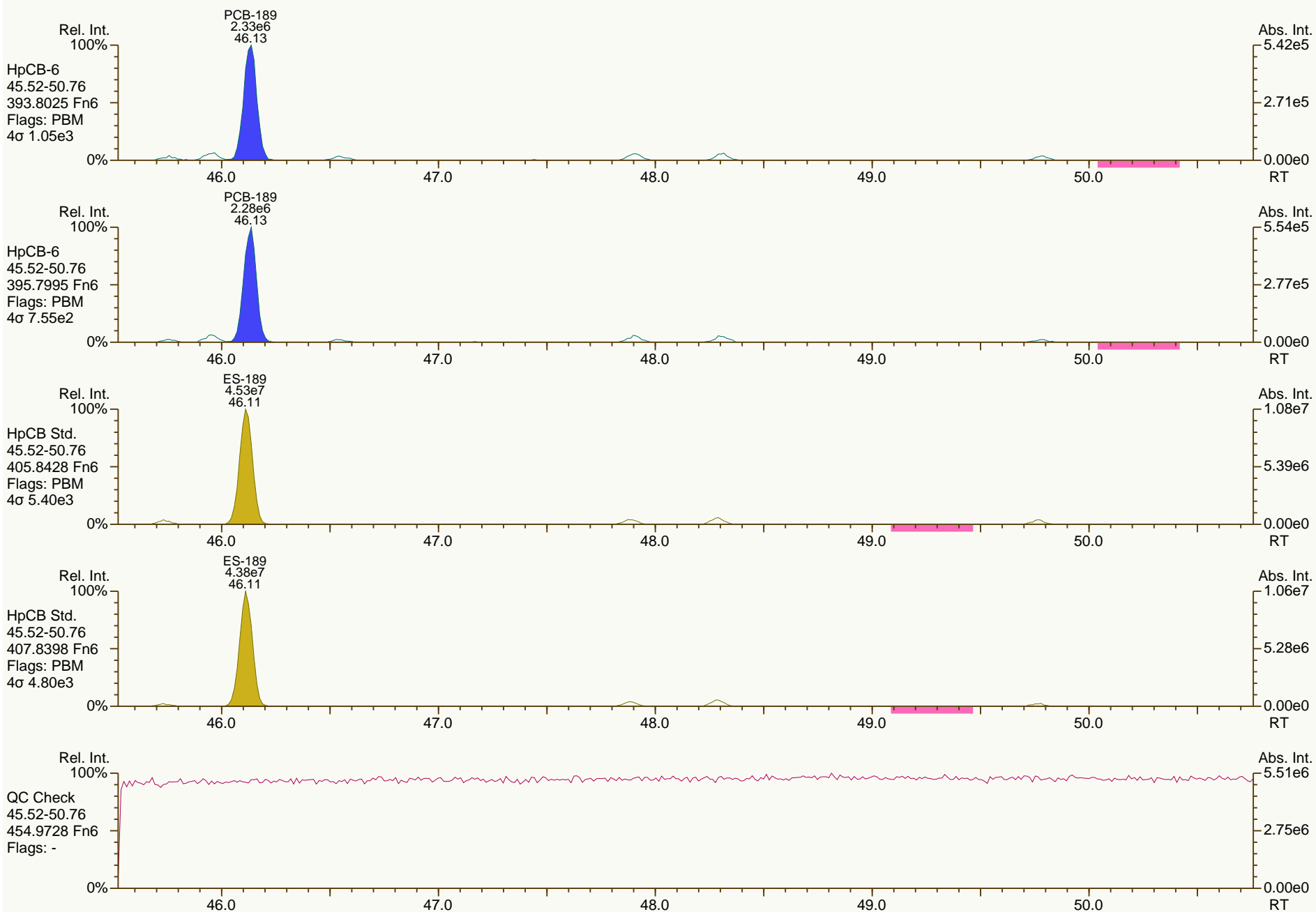




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SGS-AP ID: CS2\_131220\_PCB\_XA  
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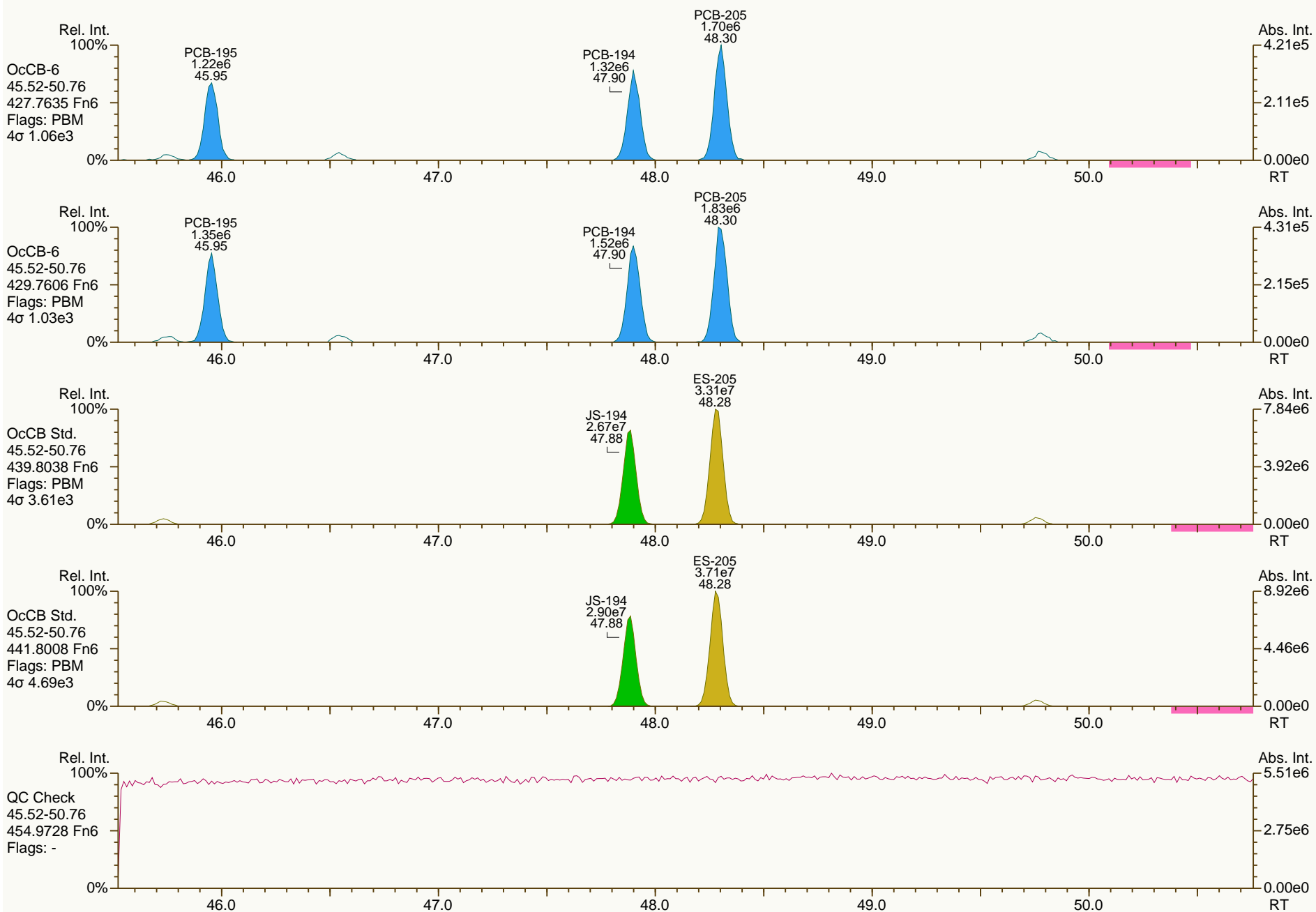
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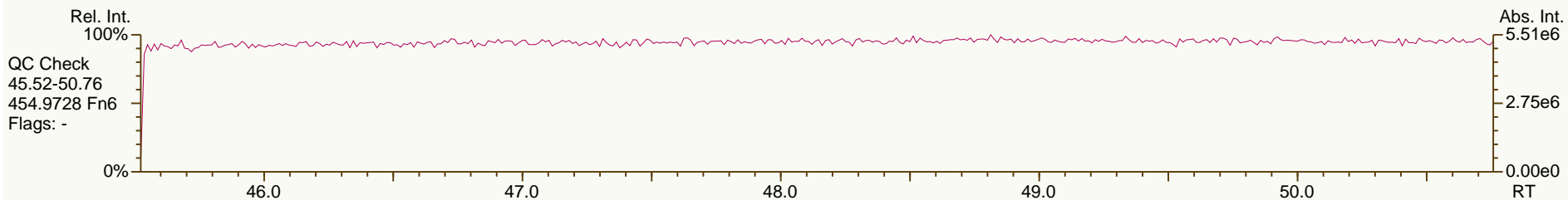
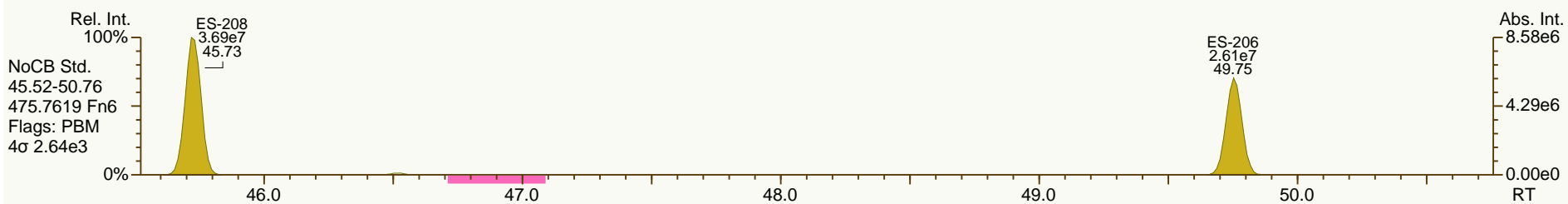
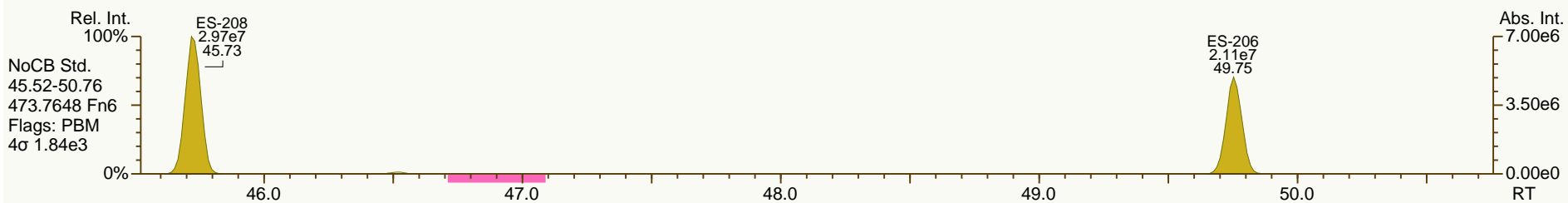
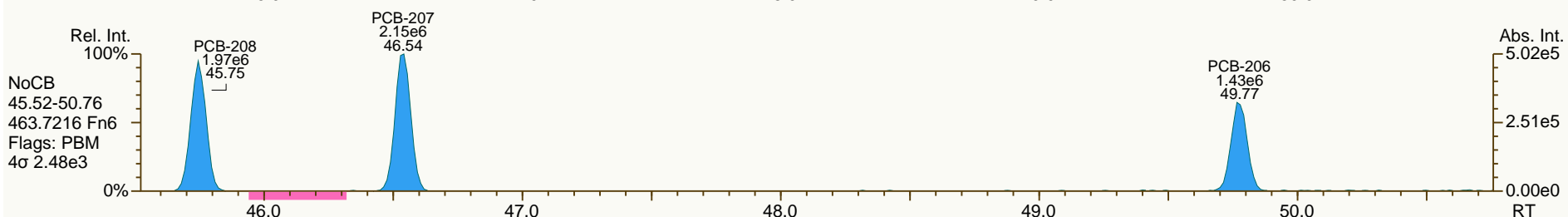
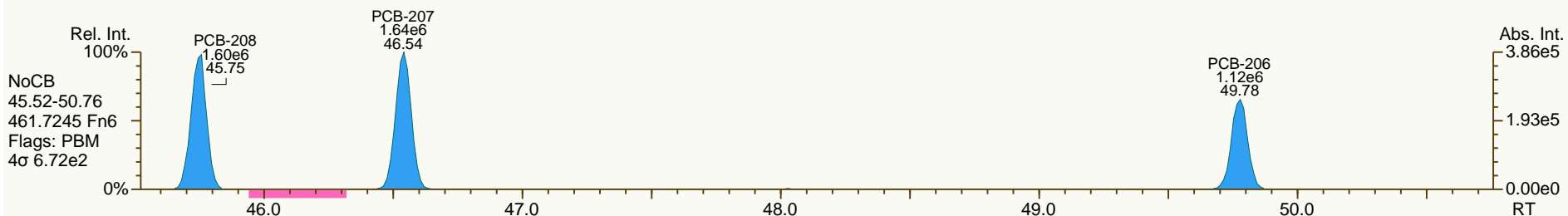
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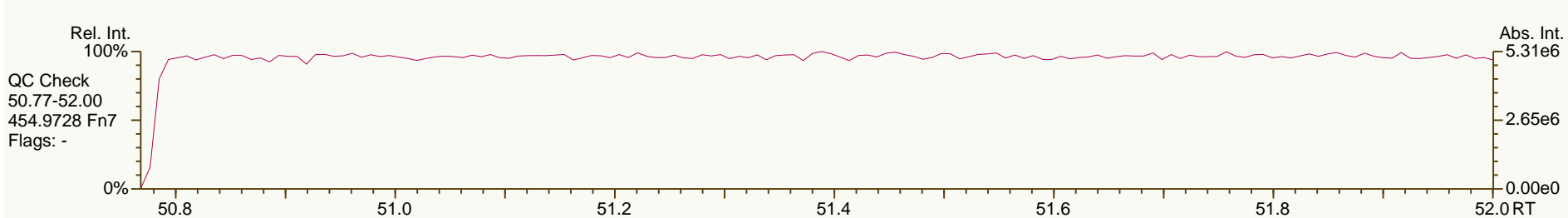
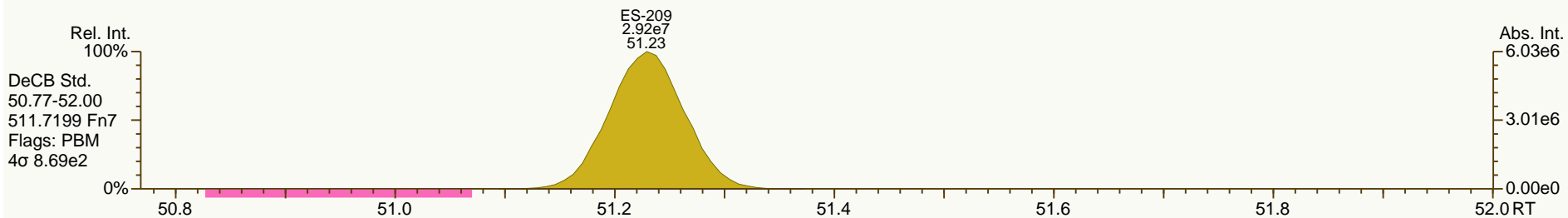
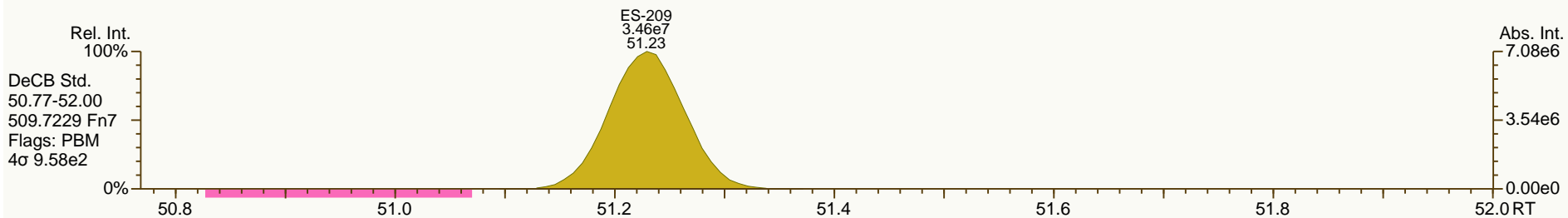
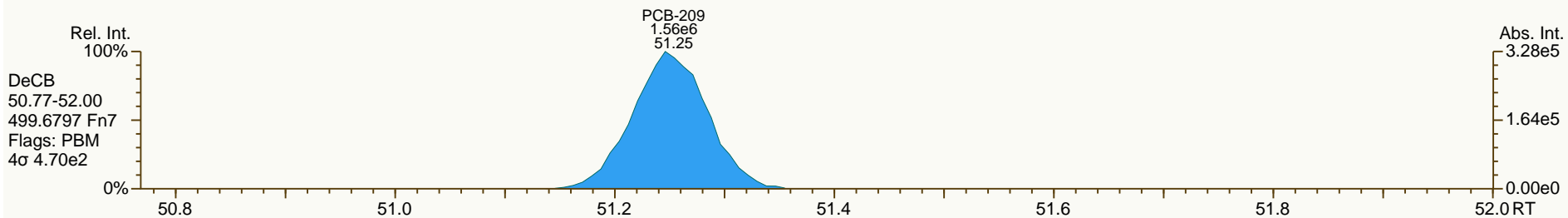
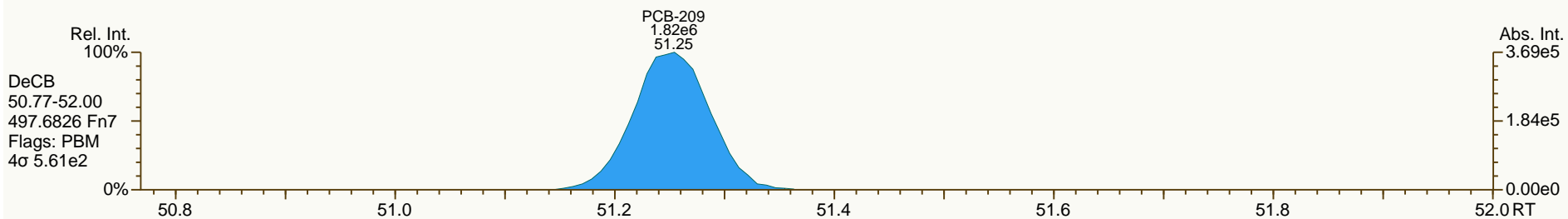
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
 User: LKB Datafile: 131220X04



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57		
Lab ID:	CS3_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.72E+07	0.78 Y	1.15	1.14	-0.9%	
PCB-81 344'5'-TeCB	32.62	6.46E+07	0.78 Y	1.12	1.12	-0.2%	
PCB-105 233'44'-PeCB	36.09	5.36E+07	0.62 Y	1.11	1.13	1.3%	
PCB-114 2344'5'-PeCB	35.55	5.90E+07	0.63 Y	1.20	1.23	2.2%	
PCB-118 23'44'5'-PeCB	35.08	5.55E+07	0.62 Y	1.19	1.22	2.5%	
PCB-123 23'44'5'-PeCB	34.80	5.75E+07	0.62 Y	1.21	1.23	1.5%	
PCB-126 33'44'5'-PeCB	38.71	4.48E+07	0.62 Y	1.11	1.12	1.1%	
PCB-156/157 ...-HxCB	41.26	9.35E+07	1.23 Y	1.10	1.12	2.3%	
PCB-167 23'44'55'-HxCB	40.28	5.18E+07	1.21 Y	1.16	1.20	2.9%	
PCB-169 33'44'55'-HxCB	43.98	4.66E+07	1.24 Y	1.12	1.16	2.8%	
PCB-189 233'44'55'-HpCB	46.12	4.39E+07	1.04 Y	1.07	1.07	-0.2%	
PCB-209 DeCB	51.23	3.15E+07	1.18 Y	1.11	1.09	-2.1%	
ES PCB-1	12.02	2.19E+08	3.31 Y	1.19	1.18	-1.3%	
ES PCB-3	14.34	1.97E+08	3.36 Y	1.09	1.06	-2.5%	
ES PCB-4	14.60	9.59E+07	1.62 Y	0.52	0.52	-1.2%	
ES PCB-15	20.36	1.90E+08	1.57 Y	1.04	1.02	-1.9%	
ES PCB-19	17.72	9.32E+07	1.08 Y	0.51	0.50	-0.9%	
ES PCB-37	26.72	1.42E+08	1.09 Y	1.66	1.61	-2.9%	
ES PCB-54	20.65	7.49E+07	0.82 Y	0.86	0.85	-0.9%	
ES PCB-77	33.08	1.18E+08	0.79 Y	1.38	1.34	-2.9%	
ES PCB-81	32.60	1.16E+08	0.81 Y	1.37	1.32	-3.5%	
ES PCB-104	25.66	6.47E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.07	9.52E+07	1.57 Y	1.20	1.18	-1.7%	
ES PCB-114	35.53	9.60E+07	1.64 Y	1.22	1.19	-2.1%	
ES PCB-118	35.06	9.11E+07	1.63 Y	1.16	1.13	-2.4%	
ES PCB-123	34.78	9.36E+07	1.59 Y	1.19	1.16	-2.1%	
ES PCB-126	38.69	8.01E+07	1.60 Y	1.03	0.99	-3.2%	
ES PCB-153	36.65	5.89E+07	1.29 Y	1.11	1.10	-1.2%	
ES PCB-155	30.63	8.37E+07	1.30 Y	1.59	1.56	-1.6%	
ES PCB-156/157	41.24	1.67E+08	1.28 Y	1.60	1.56	-2.7%	
ES PCB-167	40.26	8.66E+07	1.28 Y	1.67	1.62	-3.0%	
ES PCB-169	43.96	8.06E+07	1.28 Y	1.56	1.51	-3.2%	
ES PCB-170	43.48	4.93E+07	1.09 Y	0.95	0.95	-0.1%	
ES PCB-180	42.41	5.80E+07	1.09 Y	1.14	1.11	-2.2%	
ES PCB-188	35.52	4.92E+07	1.11 Y	0.94	0.92	-2.1%	
ES PCB-189	46.10	8.18E+07	1.01 Y	1.58	1.57	-0.9%	
ES PCB-202	40.07	5.16E+07	0.93 Y	0.97	0.97	-0.5%	
ES PCB-205	48.27	6.45E+07	0.89 Y	1.24	1.24	-0.6%	
ES PCB-206	49.74	4.32E+07	0.80 Y	0.83	0.83	-0.1%	
ES PCB-208	45.71	6.09E+07	0.80 Y	1.17	1.17	-0.5%	
ES PCB-209	51.21	5.77E+07	1.21 Y	1.11	1.11	-0.3%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 18:04							
Datafile:	131220X05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
SS PCB-28	23.15	1.59E+08	1.09 Y	1.11	1.12	1.0%		
SS PCB-111	33.09	9.83E+07	1.61 Y	1.03	1.05	2.1%		
SS PCB-178	38.09	3.00E+07	1.10 Y	0.62	0.61	-1.7%		
CS PCB-28	23.15	1.59E+08	1.09 Y	1.85	1.81	-1.8%		
CS PCB-111	33.09	9.83E+07	1.61 Y	1.22	1.22	0.0%		
CS PCB-178	38.09	3.00E+07	1.10 Y	0.58	0.56	-3.7%		
JS PCB-9	16.60	1.86E+08	1.55 Y	-	-	-		
JS PCB-52	24.78	8.78E+07	0.82 Y	-	-	-		
JS PCB-101	30.80	8.05E+07	1.58 Y	-	-	-		
JS PCB-138	37.72	5.35E+07	1.28 Y	-	-	-		
JS PCB-194	47.87	5.22E+07	0.91 Y	-	-	-		
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%		
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%		
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%		
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%		
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%		
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%		
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%		
PCB-104 22'466'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%		
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%		
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%		
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%		
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%		
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%		
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%		

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%	
PCB-2 3-MoCB	14.17	1.07E+08	3.26 Y	1.03	1.08	4.8%	
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%	
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%	
PCB-10 26'-DiCB	14.80	9.81E+07	1.61 Y	1.98	2.05	3.2%	
PCB-9 25'-DiCB	16.62	9.11E+07	1.64 Y	0.95	0.96	1.6%	
PCB-7 24'-DiCB	16.78	1.03E+08	1.63 Y	1.05	1.09	4.1%	
PCB-6 23'-DiCB	17.01	9.79E+07	1.63 Y	1.00	1.03	3.6%	
PCB-5 23'-DiCB	17.32	9.70E+07	1.62 Y	1.00	1.02	2.0%	
PCB-8 24'-DiCB	17.44	9.83E+07	1.64 Y	1.03	1.04	0.3%	
PCB-14 35'-DiCB	19.01	1.14E+08	1.62 Y	1.18	1.20	1.9%	
PCB-11 33'-DiCB	19.80	9.79E+07	1.64 Y	1.01	1.03	2.0%	
PCB-13/12 34'/34'-DiCB	20.09	1.94E+08	1.63 Y	0.99	1.02	3.1%	
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%	
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%	
PCB-30/18 246/22'5'-TrCB	19.51	1.46E+08	1.05 Y	1.54	1.57	1.9%	
PCB-17 22'4'-TrCB	19.91	6.21E+07	1.05 Y	1.31	1.33	2.2%	
PCB-27 23'6'-TrCB	20.11	8.52E+07	1.06 Y	1.82	1.83	0.7%	
PCB-24 236'-TrCB	20.24	8.13E+07	1.04 Y	1.72	1.74	1.2%	
PCB-16 22'3'-TrCB	20.34	4.64E+07	1.06 Y	1.01	1.00	-1.0%	
PCB-32 24'6'-TrCB	20.82	8.97E+07	1.06 Y	1.92	1.93	0.3%	
PCB-34 23'5'-TrCB	21.98	8.15E+07	0.99 Y	1.14	1.15	1.4%	
PCB-23 235'-TrCB	22.13	8.33E+07	0.99 Y	1.16	1.18	1.8%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.69E+08	0.99 Y	1.17	1.20	2.1%	
PCB-25 23'4'-TrCB	22.61	8.39E+07	0.98 Y	1.16	1.18	2.3%	
PCB-31 24'5'-TrCB	22.89	8.91E+07	0.99 Y	1.23	1.26	2.6%	
PCB-28/20 244'/233'-TrCB	23.18	1.65E+08	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.36	1.71E+08	0.97 Y	1.17	1.21	2.8%	
PCB-22 234'-TrCB	23.74	7.72E+07	0.98 Y	1.08	1.09	0.9%	
PCB-36 33'5'-TrCB	25.13	8.43E+07	0.99 Y	1.17	1.19	1.6%	
PCB-39 34'5'-TrCB	25.45	8.82E+07	0.99 Y	1.21	1.24	2.8%	
PCB-38 345'-TrCB	25.99	8.09E+07	0.99 Y	1.10	1.14	3.4%	
PCB-35 33'4'-TrCB	26.38	7.62E+07	0.99 Y	1.04	1.08	3.5%	
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%	
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%	
PCB-50/53 22'46'/22'56'-TeCB	22.67	1.04E+08	0.79 Y	0.88	0.90	2.6%	
PCB-45 22'36'-TeCB	23.26	4.29E+07	0.78 Y	0.77	0.74	-3.3%	
PCB-51 22'46'-TeCB	23.33	5.41E+07	0.79 Y	0.86	0.93	8.7%	
PCB-46 22'36'-TeCB	23.54	4.19E+07	0.78 Y	0.70	0.72	3.5%	
PCB-52 22'55'-TeCB	24.80	4.97E+07	0.79 Y	0.84	0.86	1.6%	
PCB-73 23'5'6'-TeCB	24.93	6.50E+07	0.79 Y	1.11	1.12	0.9%	
PCB-43 22'35'-TeCB	25.03	4.44E+07	0.79 Y	0.71	0.77	7.9%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.22E+08	0.79 Y	1.02	1.05	3.2%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.51	5.03E+07	0.79 Y	0.84	0.87	3.5%	
PCB-44/47/65 ...-TeCB	25.73	1.61E+08	0.79 Y	0.90	0.93	2.8%	
PCB-59/62/75 ...-TeCB	26.01	2.11E+08	0.79 Y	1.17	1.21	4.0%	
PCB-42 22'34'-TeCB	26.17	4.56E+07	0.79 Y	0.76	0.79	3.2%	
PCB-41 22'34'-TeCB	26.51	4.24E+07	0.78 Y	0.69	0.73	5.4%	
PCB-71/40 23'4'6/22'33'-TeCB	26.60	1.01E+08	0.80 Y	0.86	0.87	1.7%	
PCB-64 23'4'6'-TeCB	26.80	7.33E+07	0.79 Y	1.22	1.27	3.7%	
PCB-72 23'55'-TeCB	27.52	7.21E+07	0.77 Y	1.21	1.25	3.0%	
PCB-68 23'45'-TeCB	27.78	7.57E+07	0.79 Y	1.28	1.31	2.4%	
PCB-57 23'35'-TeCB	28.15	6.97E+07	0.78 Y	1.16	1.20	3.4%	
PCB-58 23'35'-TeCB	28.35	6.93E+07	0.79 Y	1.18	1.20	1.6%	
PCB-67 23'45'-TeCB	28.51	7.46E+07	0.78 Y	1.26	1.29	2.3%	
PCB-63 23'45'-TeCB	28.74	7.70E+07	0.78 Y	1.30	1.33	2.5%	
PCB-61/70/74/76 ...-TeCB	29.03	2.84E+08	0.78 Y	1.20	1.23	2.3%	
PCB-66 23'44'-TeCB	29.32	6.58E+07	0.78 Y	1.10	1.14	3.1%	
PCB-55 23'34'-TeCB	29.46	6.61E+07	0.78 Y	1.12	1.14	1.9%	
PCB-56 23'34'-TeCB	29.90	6.57E+07	0.78 Y	1.11	1.13	2.2%	
PCB-60 23'44'-TeCB	30.09	6.65E+07	0.78 Y	1.14	1.15	1.2%	
PCB-80 33'55'-TeCB	30.42	7.84E+07	0.79 Y	1.31	1.35	3.1%	
PCB-79 33'45'-TeCB	31.75	7.58E+07	0.78 Y	1.31	1.31	0.3%	
PCB-78 33'45'-TeCB	32.24	6.37E+07	0.79 Y	1.06	1.10	3.6%	
PCB-104 22'46'6'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%	
PCB-96 22'36'6'-PeCB	26.00	4.07E+07	0.65 Y	1.23	1.26	2.3%	
PCB-103 22'45'6'-PeCB	27.69	4.49E+07	0.62 Y	0.93	0.96	3.1%	
PCB-94 22'35'6'-PeCB	27.89	3.89E+07	0.62 Y	0.80	0.83	3.9%	
PCB-95 22'35'6'-PeCB	28.27	4.15E+07	0.62 Y	0.87	0.89	2.5%	
PCB-100/93 22'44'6/22'35'6'-PeCB	28.48	8.23E+07	0.62 Y	0.86	0.88	1.9%	
PCB-102 22'45'6'-PeCB	28.59	4.80E+07	0.62 Y	0.97	1.03	6.0%	
PCB-98 22'34'6'-PeCB	28.66	3.74E+07	0.62 Y	0.76	0.80	5.5%	
PCB-88 22'34'6'-PeCB	28.96	3.48E+07	0.61 Y	0.80	0.74	-6.9%	
PCB-91 22'34'6'-PeCB	29.03	4.85E+07	0.62 Y	0.94	1.04	9.9%	
PCB-84 22'33'6'-PeCB	29.22	3.51E+07	0.62 Y	0.72	0.75	4.8%	
PCB-89 22'34'6'-PeCB	29.64	3.72E+07	0.61 Y	0.76	0.80	4.3%	
PCB-121 23'45'6'-PeCB	29.99	5.76E+07	0.62 Y	1.20	1.23	2.6%	
PCB-92 22'35'5'-PeCB	30.31	3.91E+07	0.61 Y	0.82	0.84	1.9%	
PCB-113/90/101 ...-PeCB	30.79	1.40E+08	0.62 Y	0.99	1.00	1.0%	
PCB-83 22'33'5'-PeCB	31.23	3.39E+07	0.62 Y	0.71	0.72	1.2%	
PCB-99 22'44'5'-PeCB	31.33	4.26E+07	0.62 Y	0.92	0.91	-1.2%	
PCB-112 23'3'56'-PeCB	31.43	5.82E+07	0.62 Y	1.17	1.24	6.6%	
PCB-108/119/86/97/125...-PeCB	31.78	2.85E+08	0.62 Y	0.98	1.01	3.6%	
PCB-117 23'4'56'-PeCB	32.31	5.48E+07	0.62 Y	1.14	1.17	2.9%	
PCB-116/85 23'45'6/22'34'4'-PeCB	32.41	8.79E+07	0.63 Y	0.94	0.94	-0.1%	
PCB-110 23'3'4'6'-PeCB	32.52	5.86E+07	0.62 Y	1.12	1.25	12.0%	

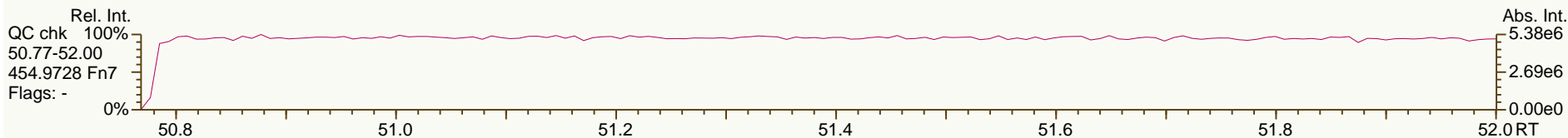
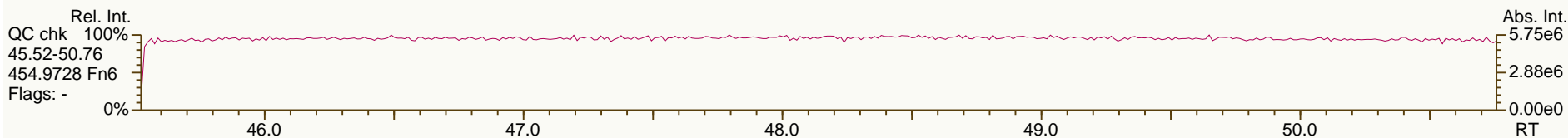
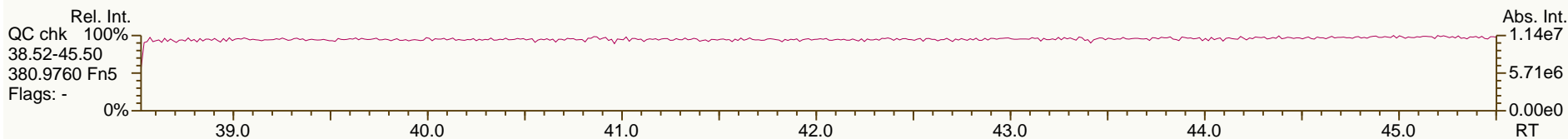
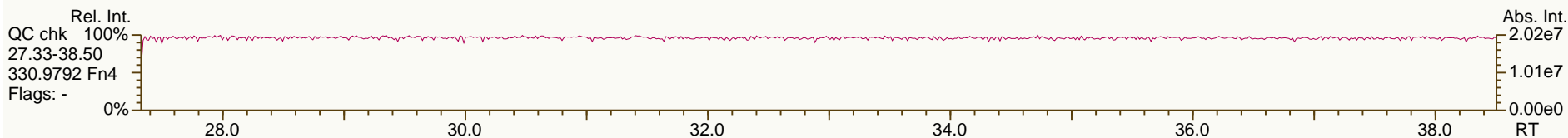
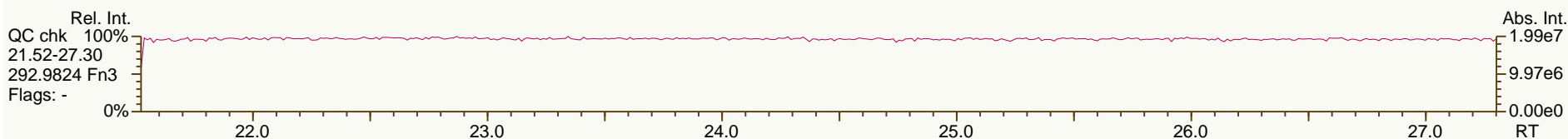
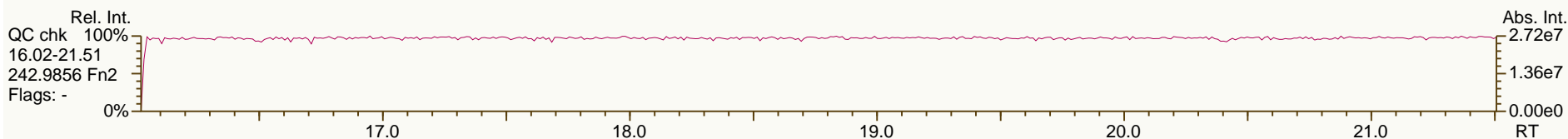
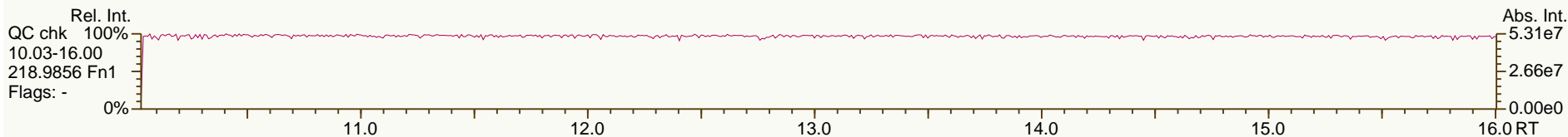
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.61	5.15E+07	0.62 Y	1.16	1.10	-5.0%	
PCB-82 22'33'4-PeCB	32.80	3.29E+07	0.62 Y	0.70	0.70	0.8%	
PCB-111 233'55'-PeCB	33.12	5.86E+07	0.62 Y	1.22	1.25	2.6%	
PCB-120 23'455'-PeCB	33.52	5.80E+07	0.62 Y	1.21	1.24	2.4%	
PCB-107/124 ...-PeCB	34.49	1.06E+08	0.62 Y	1.10	1.14	3.4%	
PCB-109 233'46-PeCB	34.69	6.23E+07	0.62 Y	1.25	1.33	6.3%	
PCB-106 233'45-PeCB	34.91	5.24E+07	0.62 Y	1.11	1.12	1.3%	
PCB-122 233'4'5'-PeCB	35.38	4.86E+07	0.62 Y	0.99	1.01	1.9%	
PCB-127 33'455'-PeCB	37.33	5.29E+07	0.62 Y	1.10	1.11	1.5%	
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%	
PCB-152 22'3566'-HxCB	30.81	4.87E+07	1.29 Y	1.17	1.16	-0.8%	
PCB-150 22'34'66'-HxCB	30.96	5.03E+07	1.27 Y	1.18	1.20	2.2%	
PCB-136 22'33'66'-HxCB	31.26	4.58E+07	1.28 Y	1.07	1.09	2.6%	
PCB-145 22'3466'-HxCB	31.53	4.68E+07	1.28 Y	1.11	1.12	0.3%	
PCB-148 22'34'56'-HxCB	32.81	3.50E+07	1.29 Y	1.18	1.19	0.6%	
PCB-151/135 ...-HxCB	33.33	6.71E+07	1.28 Y	1.14	1.14	0.1%	
PCB-154 22'44'56'-HxCB	33.54	3.92E+07	1.27 Y	1.34	1.33	-0.9%	
PCB-144 22'345'6-HxCB	33.80	3.50E+07	1.28 Y	1.18	1.19	0.5%	
PCB-147/149 ...-HxCB	34.11	6.95E+07	1.26 Y	1.18	1.18	0.4%	
PCB-134 22'33'56-HxCB	34.28	2.62E+07	1.29 Y	0.92	0.89	-3.9%	
PCB-143 22'3456'-HxCB	34.36	3.47E+07	1.29 Y	1.13	1.18	4.3%	
PCB-139/140 ...-HxCB	34.63	7.06E+07	1.29 Y	1.21	1.20	-0.5%	
PCB-131 22'33'46-HxCB	34.80	3.02E+07	1.28 Y	1.03	1.03	0.0%	
PCB-142 22'3456-HxCB	34.95	2.97E+07	1.27 Y	0.99	1.01	1.8%	
PCB-132 22'33'46'-HxCB	35.18	3.05E+07	1.29 Y	1.03	1.03	0.4%	
PCB-133 22'33'55'-HxCB	35.59	3.33E+07	1.27 Y	1.13	1.13	-0.2%	
PCB-165 233'55'6-HxCB	35.93	4.19E+07	1.29 Y	1.41	1.42	1.0%	
PCB-146 22'34'55'-HxCB	36.14	3.49E+07	1.26 Y	1.20	1.19	-1.3%	
PCB-161 233'45'6-HxCB	36.26	4.54E+07	1.29 Y	1.52	1.54	1.3%	
PCB-153/168 ...-HxCB	36.69	8.69E+07	1.27 Y	1.46	1.48	1.3%	
PCB-141 22'3455'-HxCB	36.84	3.24E+07	1.26 Y	1.09	1.10	1.2%	
PCB-130 22'33'45'-HxCB	37.18	2.87E+07	1.26 Y	0.97	0.97	0.2%	
PCB-137 22'344'5-HxCB	37.38	3.23E+07	1.26 Y	1.16	1.10	-5.5%	
PCB-164 233'4'5'6-HxCB	37.46	4.64E+07	1.27 Y	1.50	1.58	5.2%	
PCB-163/138/129 ...-HxCB	37.76	1.04E+08	1.27 Y	1.19	1.17	-1.4%	
PCB-160 233'456-HxCB	37.89	4.57E+07	1.27 Y	1.52	1.55	2.4%	
PCB-158 233'44'6-HxCB	38.08	4.80E+07	1.29 Y	1.66	1.63	-1.8%	
PCB-128/166 ...-HxCB	38.81	7.91E+07	1.23 Y	0.90	0.91	1.5%	
PCB-159 233'455'-HxCB	39.63	4.91E+07	1.23 Y	1.11	1.13	1.7%	
PCB-162 233'4'55'-HxCB	39.87	4.82E+07	1.22 Y	1.07	1.11	3.8%	
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%	
PCB-179 22'33'566'-HpCB	35.82	2.89E+07	1.08 Y	1.16	1.17	0.9%	
PCB-184 22'344'66'-HpCB	36.29	2.78E+07	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.58	3.08E+07	1.08 Y	1.23	1.25	1.6%	
PCB-186 22'34566'-HpCB	36.98	2.82E+07	1.09 Y	1.13	1.14	1.7%	
PCB-178 22'33'55'6'-HpCB	38.11	2.06E+07	1.08 Y	0.84	0.84	-0.7%	
PCB-175 22'33'45'6'-HpCB	38.66	3.12E+07	1.07 Y	1.07	1.08	0.3%	
PCB-187 22'34'55'6'-HpCB	38.89	3.32E+07	1.07 Y	1.14	1.15	0.7%	
PCB-182 22'344'56'-HpCB	39.07	3.55E+07	1.06 Y	1.18	1.22	4.2%	
PCB-183 22'344'5'6'-HpCB	39.42	3.70E+07	1.06 Y	1.20	1.28	6.0%	
PCB-185 22'3455'6'-HpCB	39.50	2.99E+07	1.07 Y	1.06	1.03	-2.8%	
PCB-174 22'33'456'-HpCB	39.61	2.90E+07	1.06 Y	0.99	1.00	1.1%	
PCB-177 22'33'45'6'-HpCB	39.98	2.76E+07	1.06 Y	0.95	0.95	0.0%	
PCB-181 22'344'56'-HpCB	40.33	3.21E+07	1.05 Y	1.09	1.11	1.7%	
PCB-171/173 ...-HpCB	40.52	5.60E+07	1.05 Y	0.95	0.97	1.8%	
PCB-172 22'33'455'-HpCB	41.87	2.94E+07	1.05 Y	0.99	1.02	2.7%	
PCB-192 233'455'6'-HpCB	42.12	3.83E+07	1.07 Y	1.29	1.32	2.5%	
PCB-180/193 ...-HpCB	42.39	7.38E+07	1.06 Y	1.26	1.27	1.0%	
PCB-191 233'44'5'6'-HpCB	42.73	4.06E+07	1.08 Y	1.40	1.40	0.4%	
PCB-170 22'33'44'5'-HpCB	43.50	2.83E+07	1.08 Y	1.14	1.15	1.0%	
PCB-190 233'44'56'-HpCB	43.95	4.10E+07	1.05 Y	1.66	1.66	0.2%	
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%	
PCB-201 22'33'45'66'-OcCB	40.88	3.19E+07	0.91 Y	1.22	1.24	1.2%	
PCB-204 22'344'566'-OcCB	41.46	2.88E+07	0.93 Y	1.12	1.12	0.0%	
PCB-197 22'33'44'66'-OcCB	41.65	2.98E+07	0.91 Y	1.19	1.15	-3.2%	
PCB-200 22'33'4566'-OcCB	41.73	3.01E+07	0.93 Y	1.11	1.16	5.1%	
PCB-198/199 ...-OcCB	44.06	4.14E+07	0.91 Y	0.81	0.80	-0.8%	
PCB-196 22'33'44'56'-OcCB	44.64	2.18E+07	0.91 Y	0.83	0.84	1.1%	
PCB-203 22'344'55'6'-OcCB	44.81	2.26E+07	0.91 Y	0.87	0.88	0.2%	
PCB-195 22'33'44'56'-OcCB	45.94	2.41E+07	0.93 Y	0.77	0.75	-2.5%	
PCB-194 22'33'44'55'-OcCB	47.89	2.69E+07	0.91 Y	0.84	0.84	-0.9%	
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%	
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%	
PCB-207 22'33'44'566'-NoCB	46.52	3.65E+07	0.78 Y	1.19	1.20	0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%	

SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

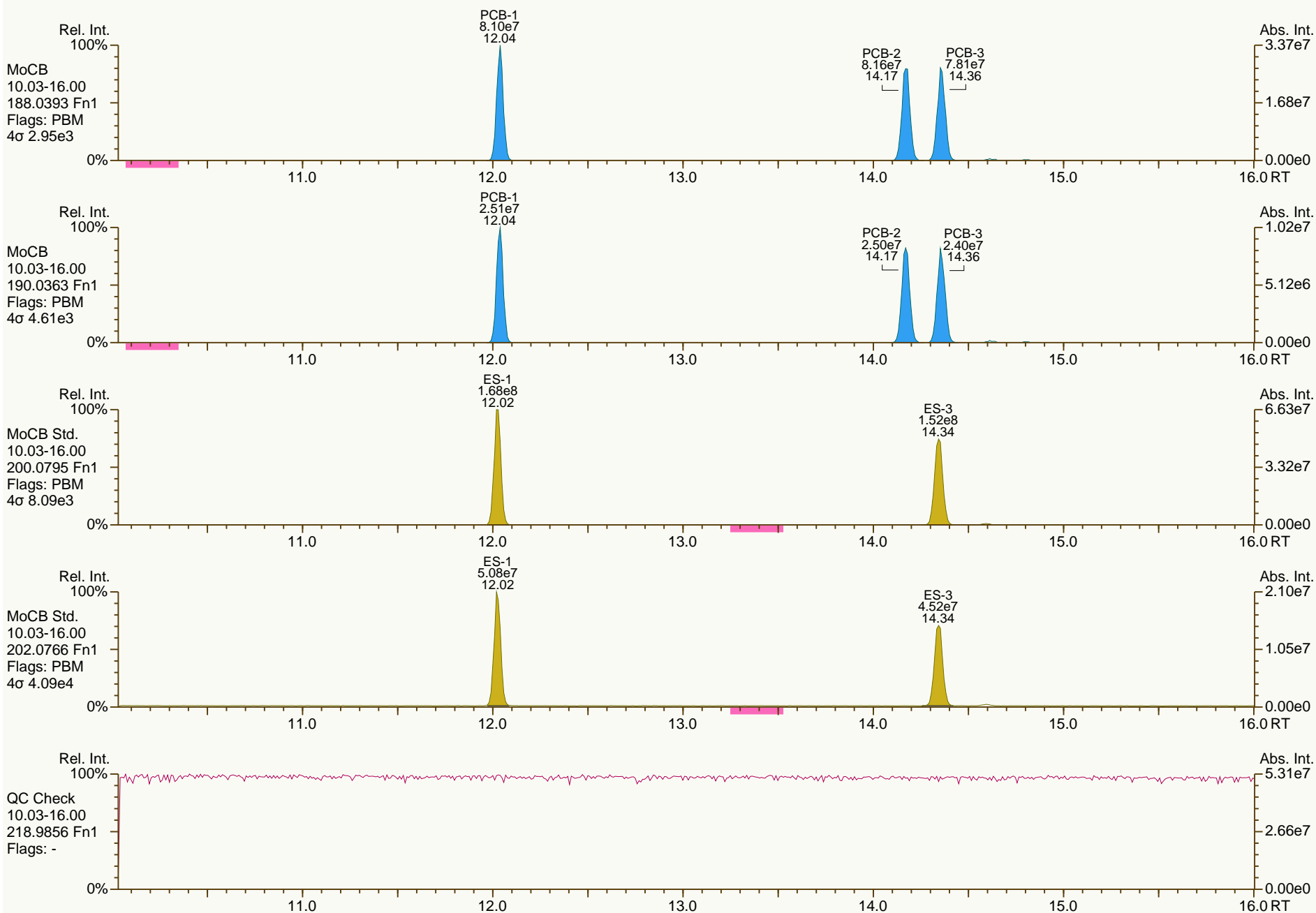
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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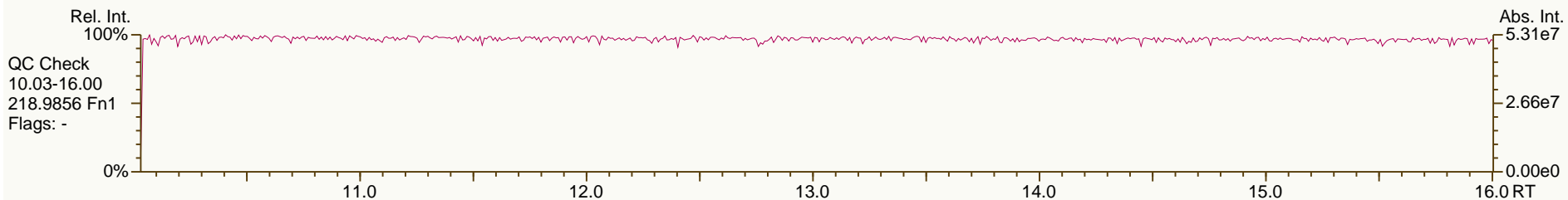
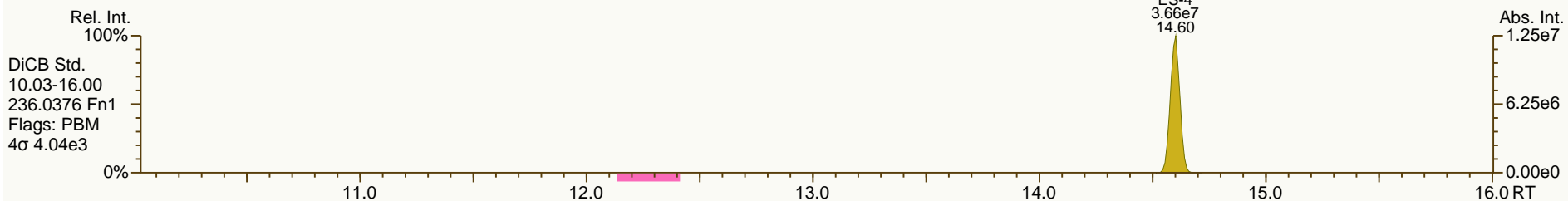
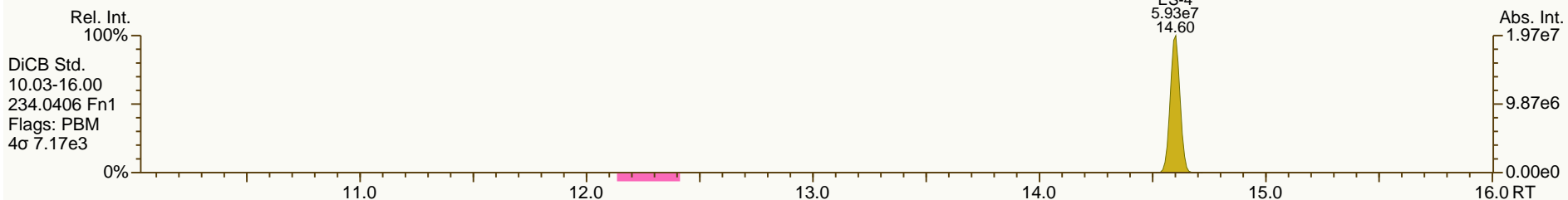
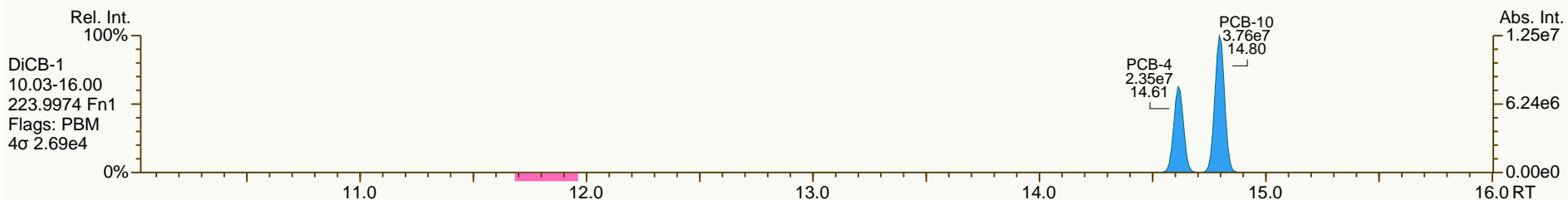
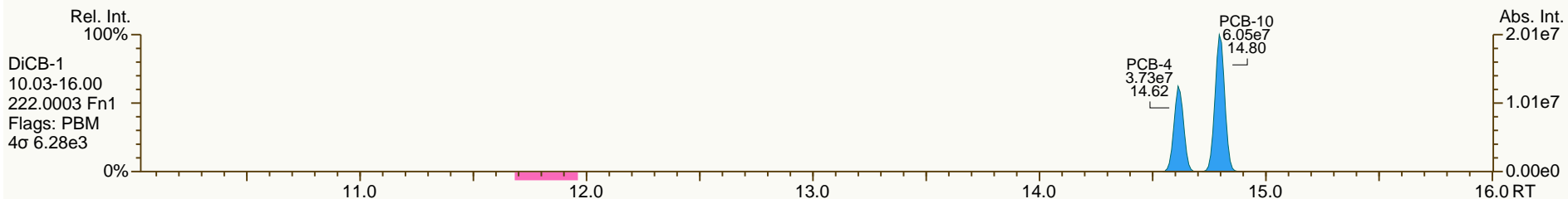
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SGS-AP ID: CS3\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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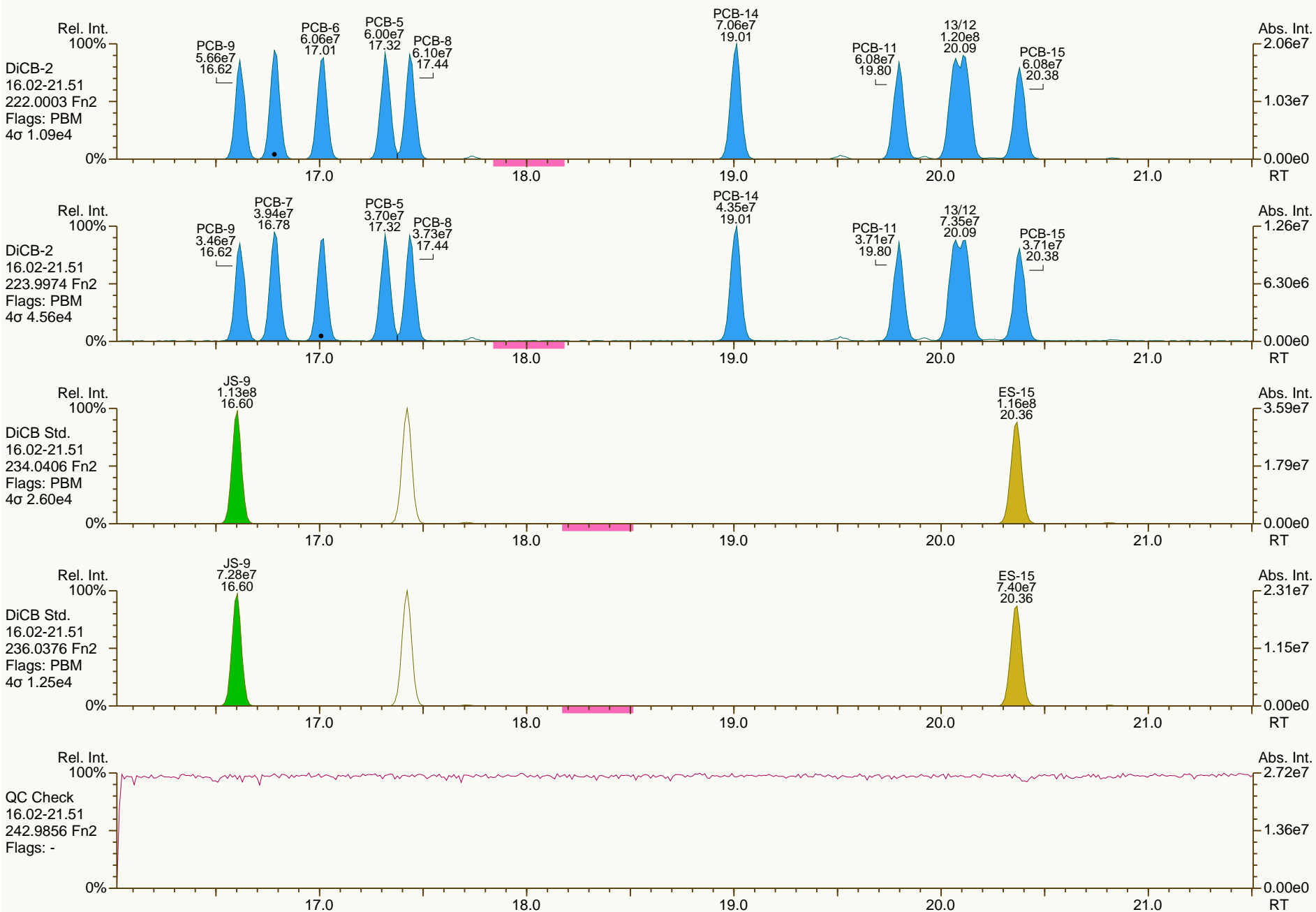
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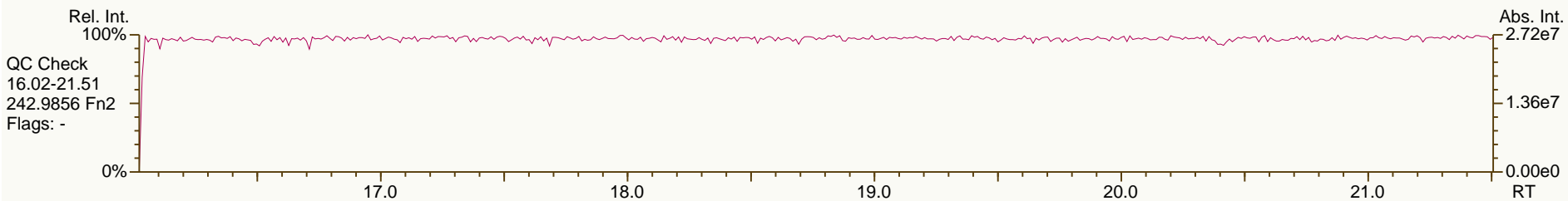
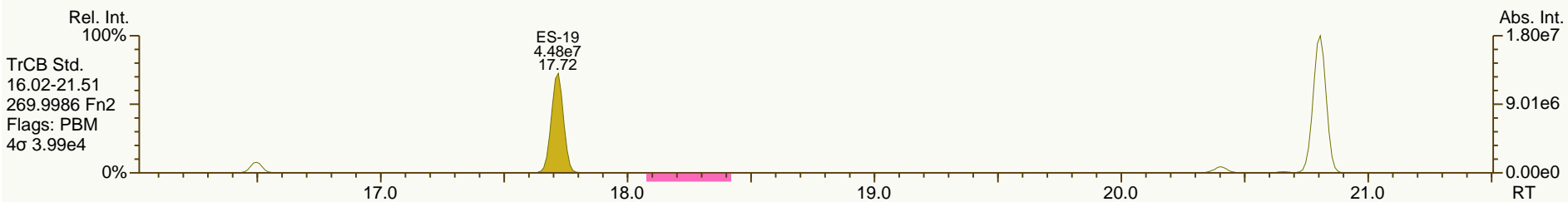
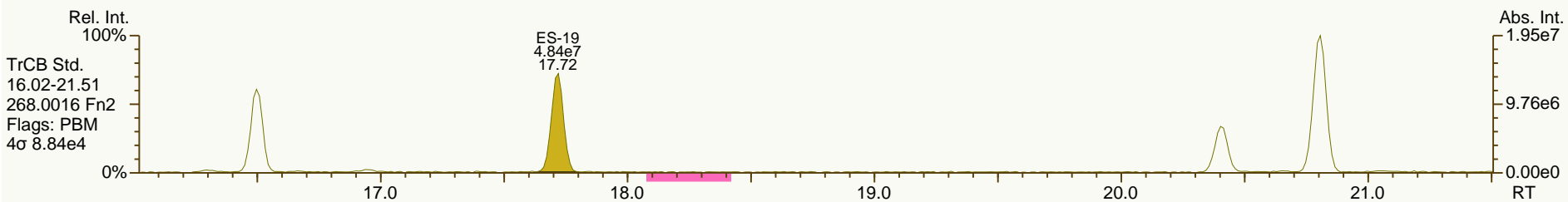
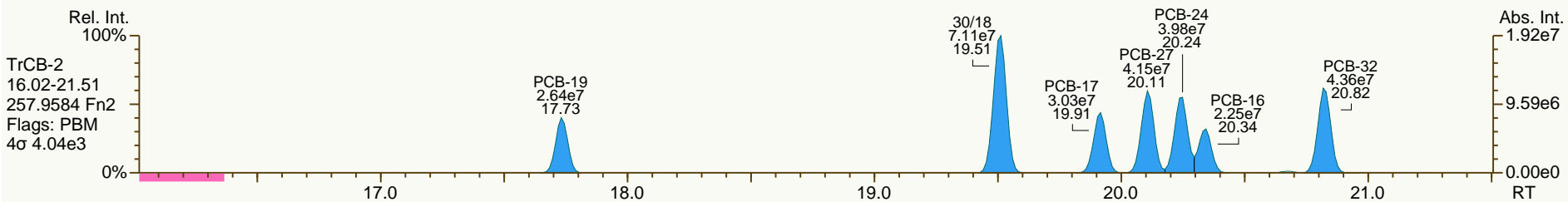
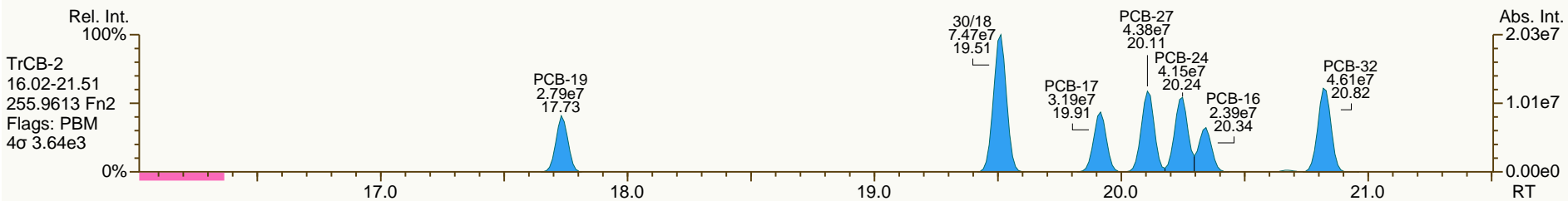
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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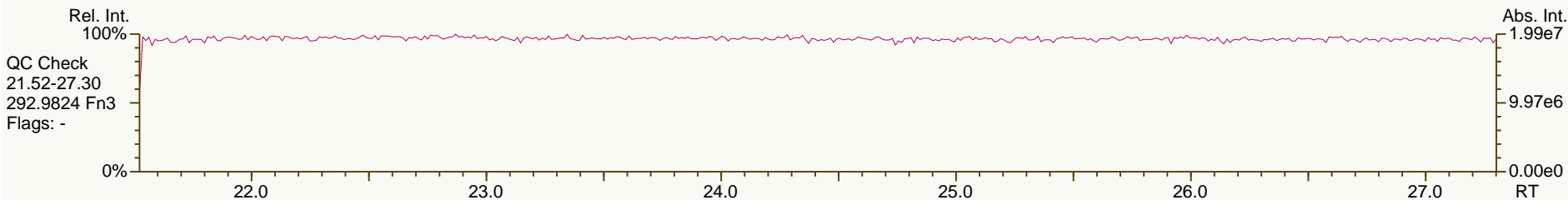
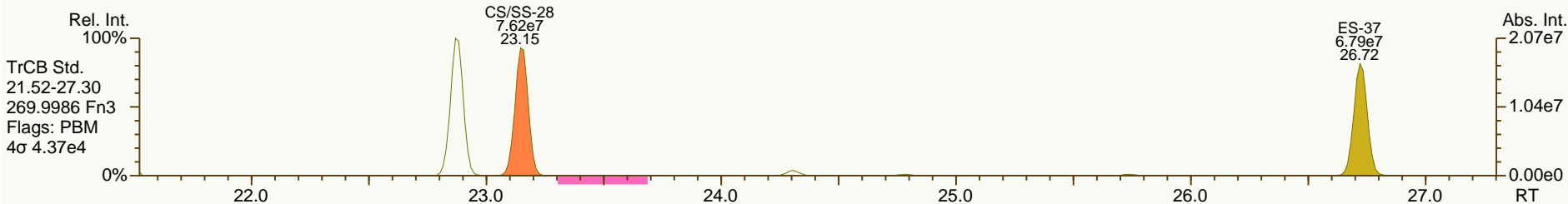
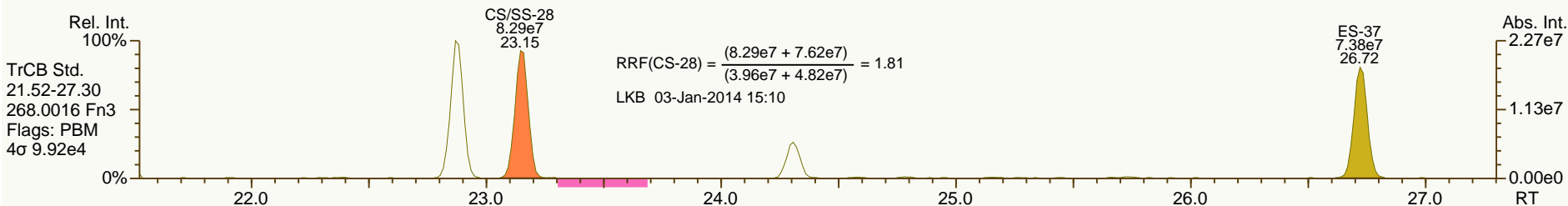
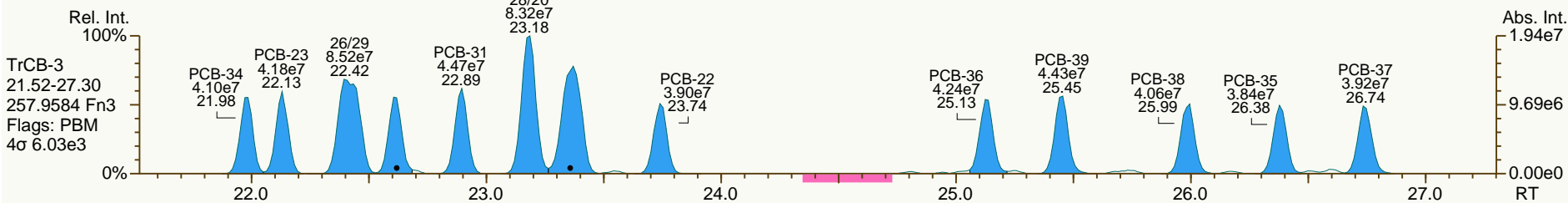
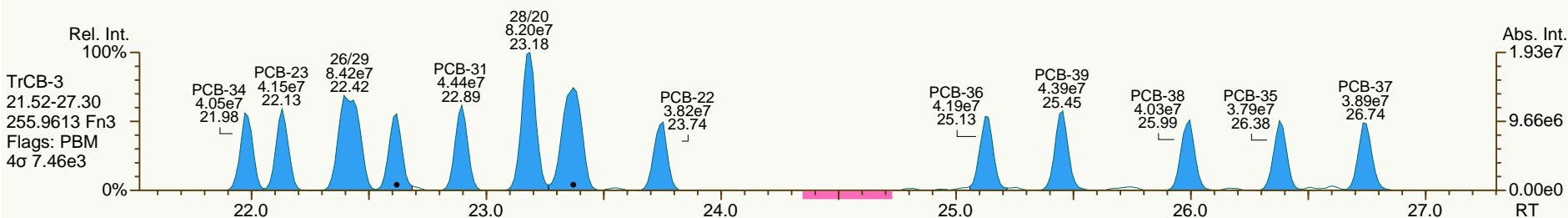




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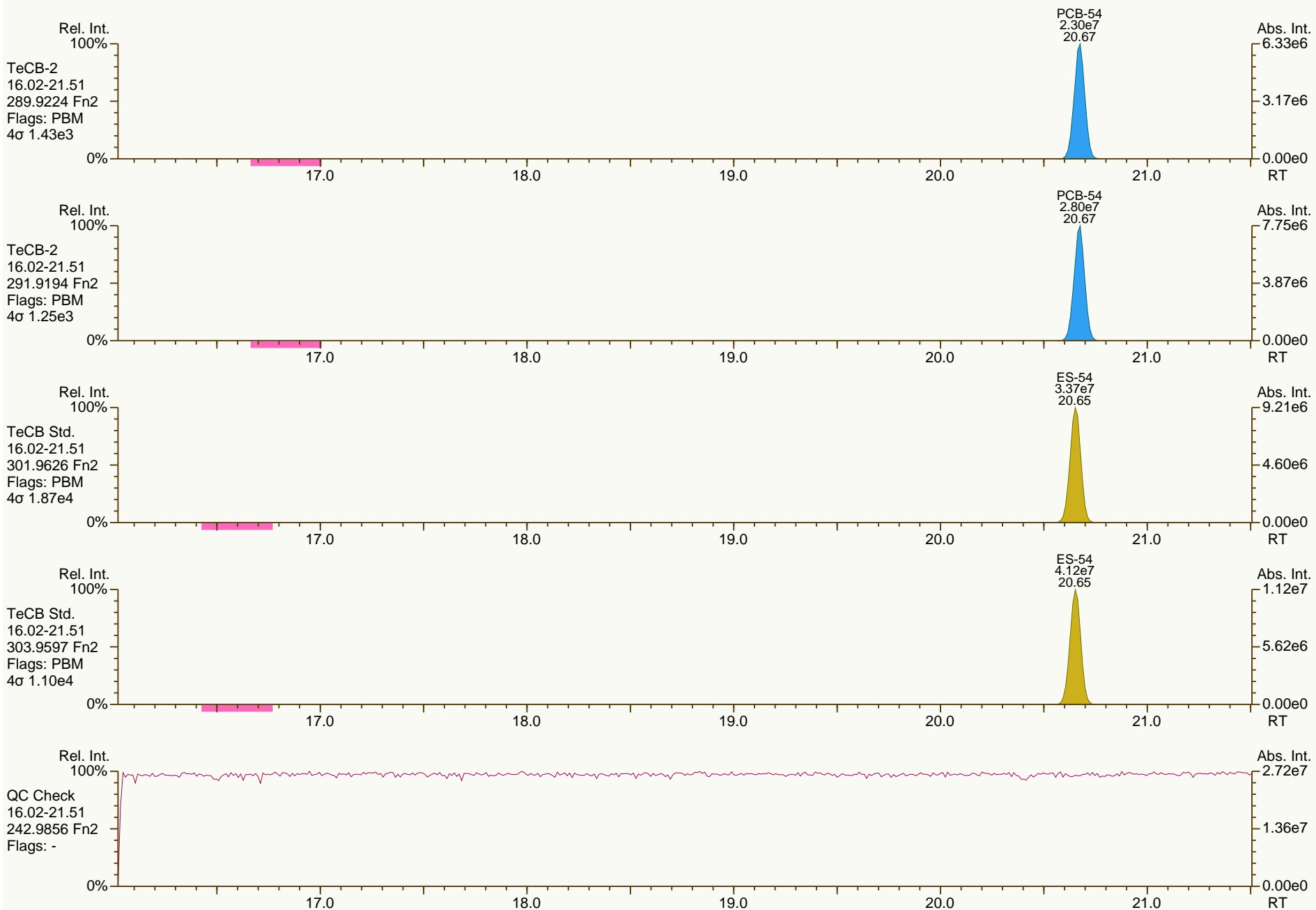
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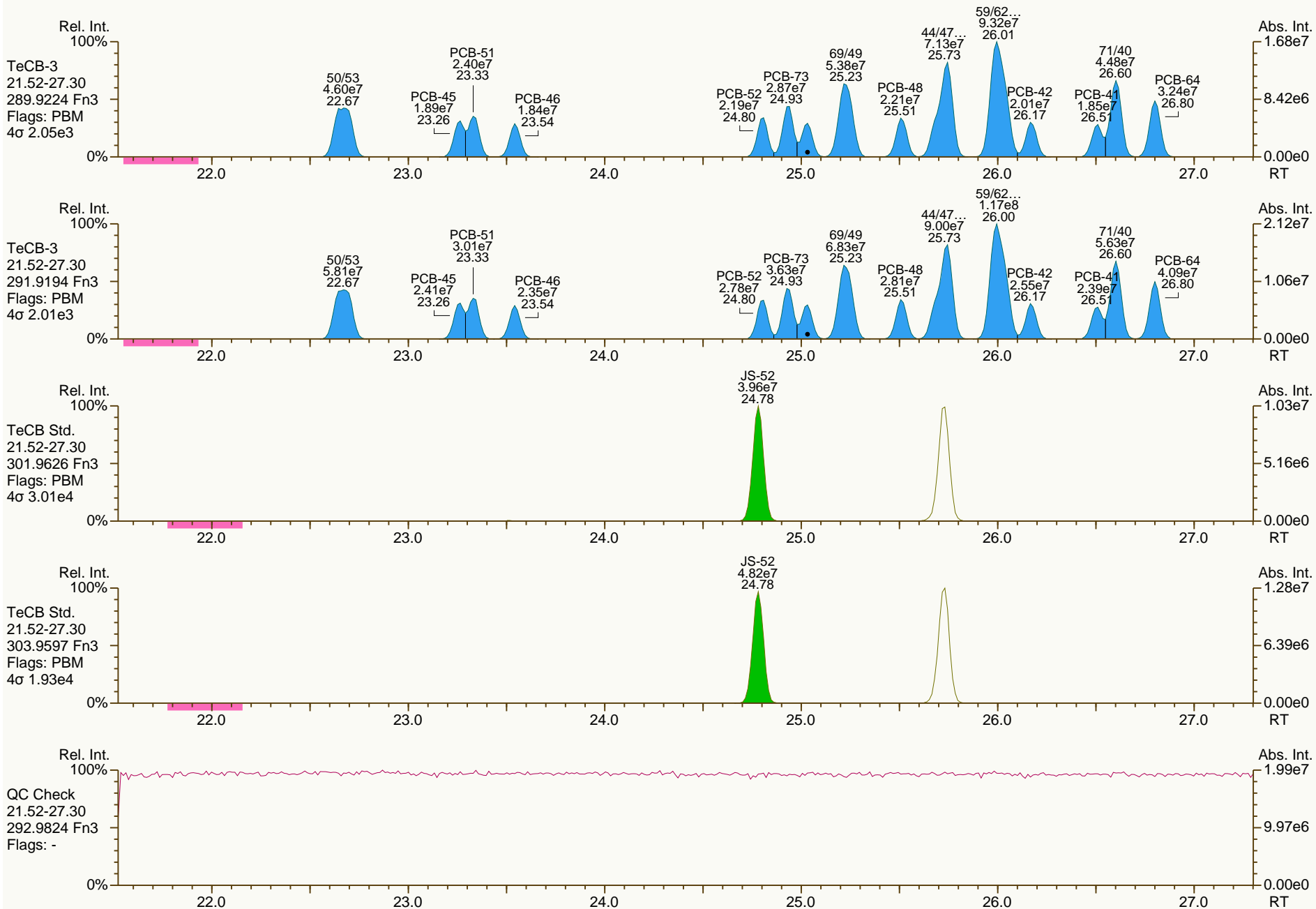
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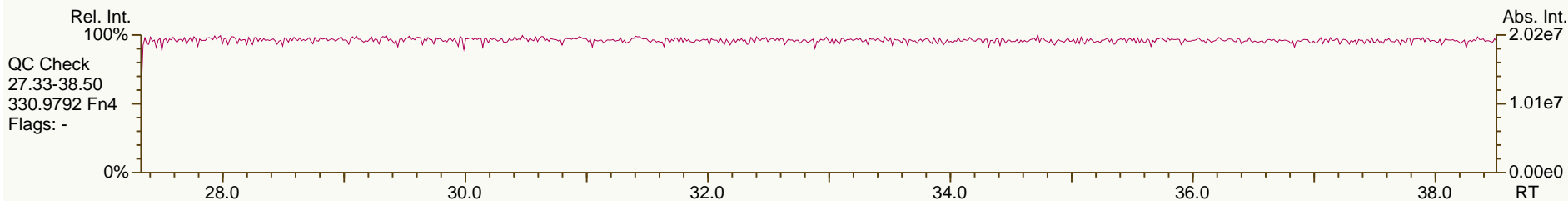
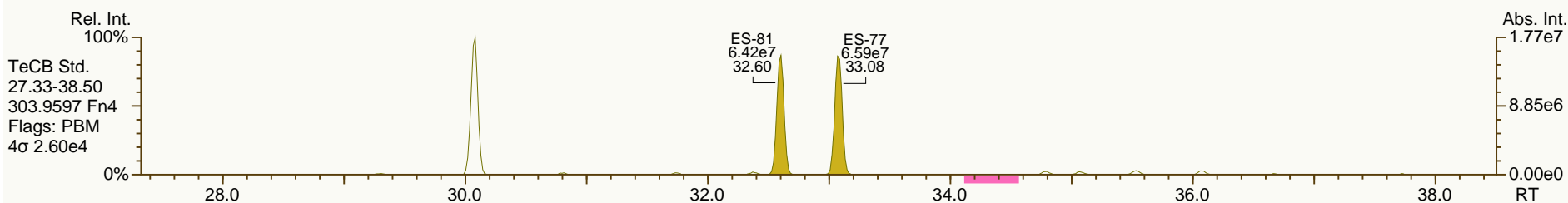
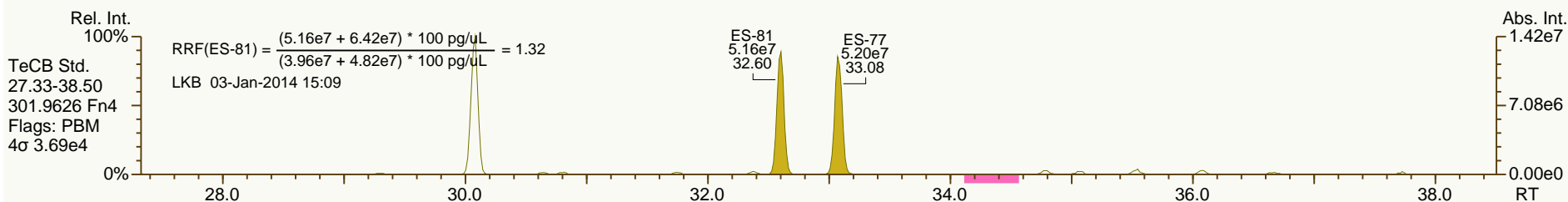
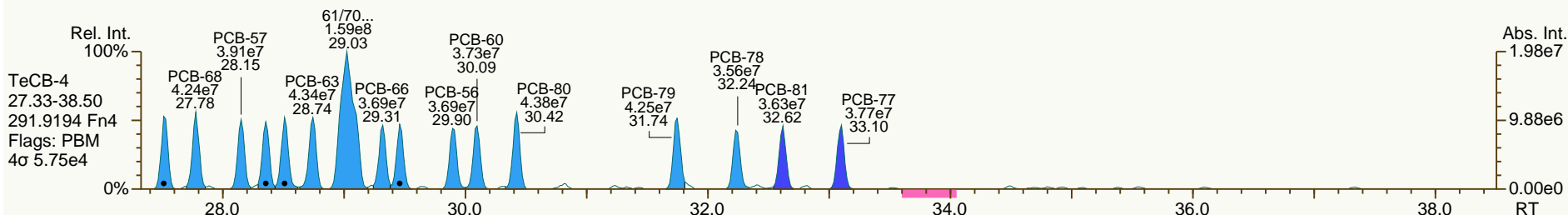
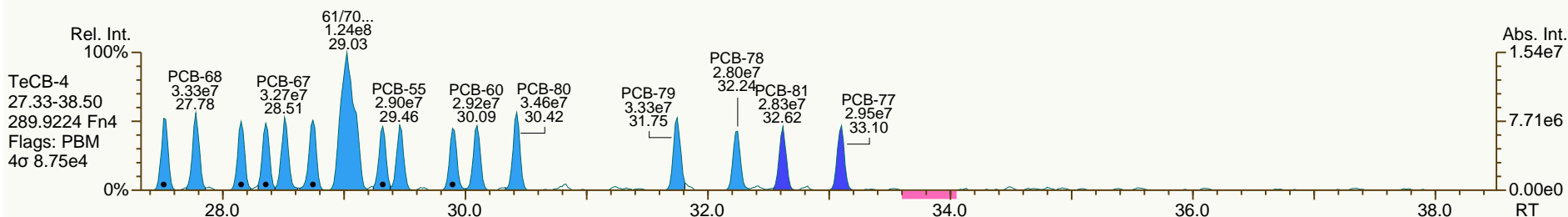
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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SGS-AP ID: CS3\_131220\_PCB\_XA  
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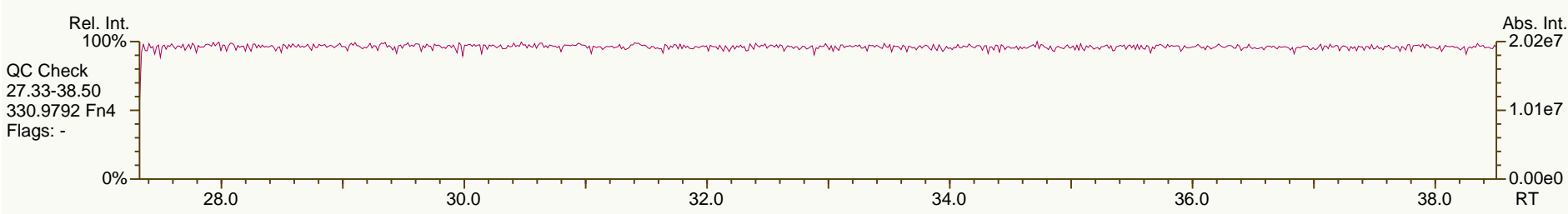
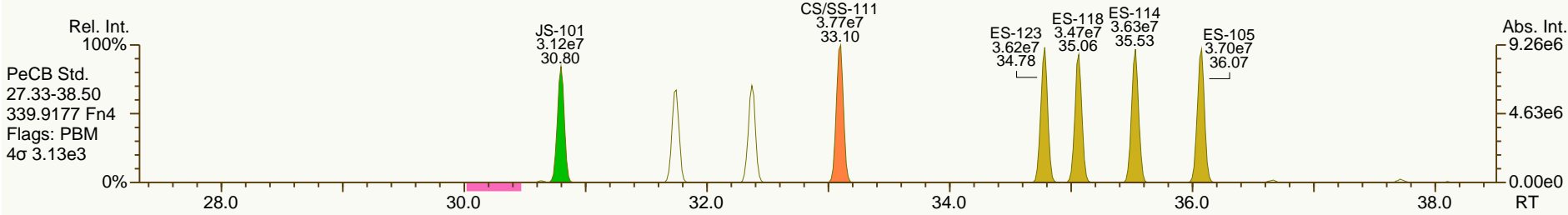
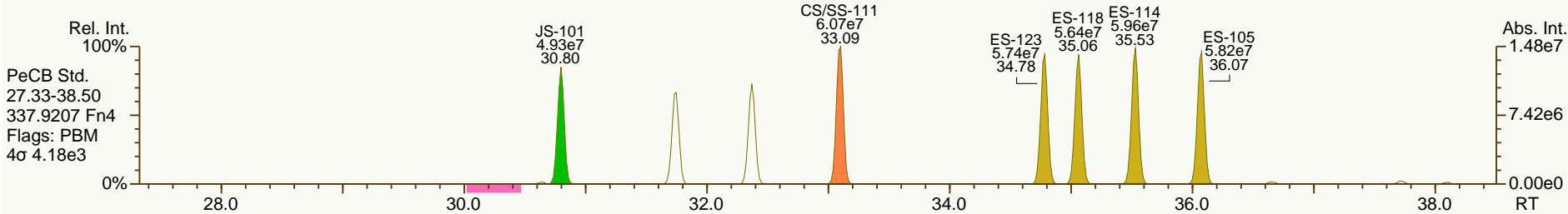
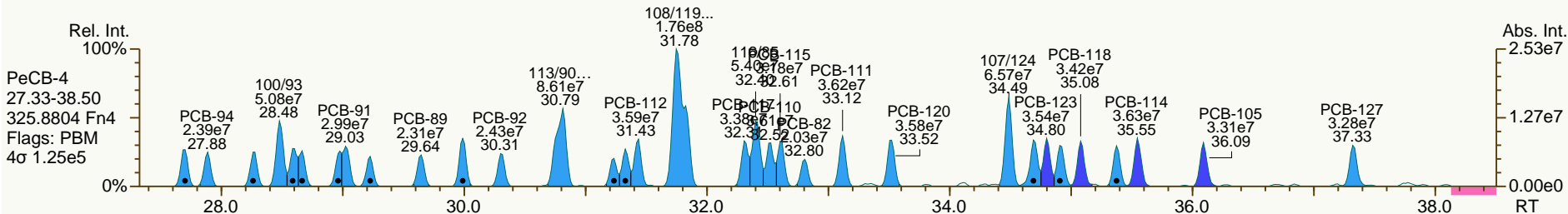
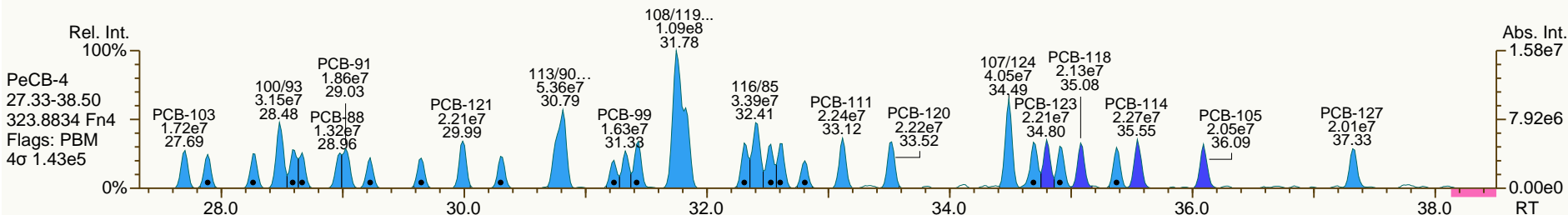
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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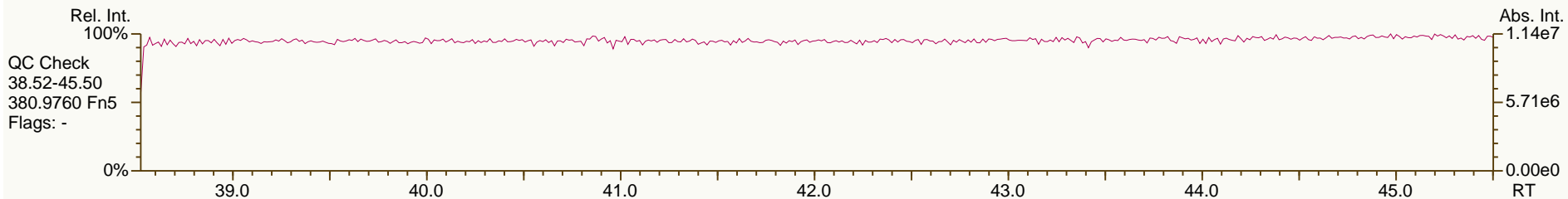
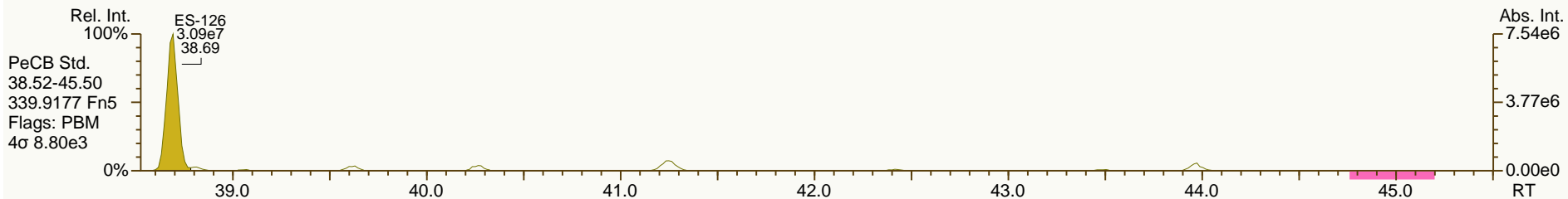
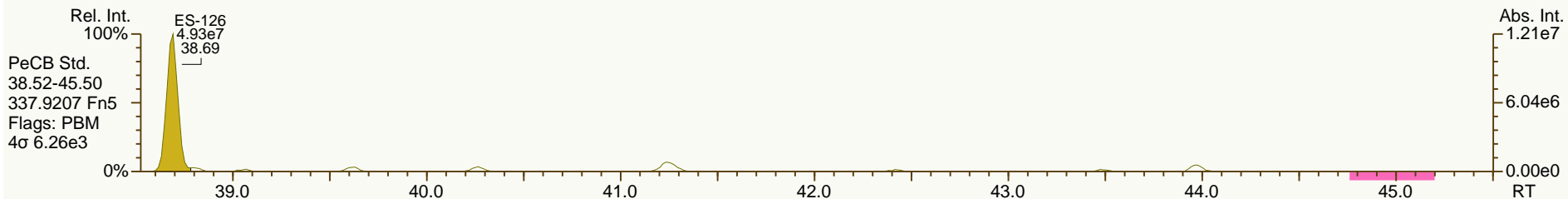
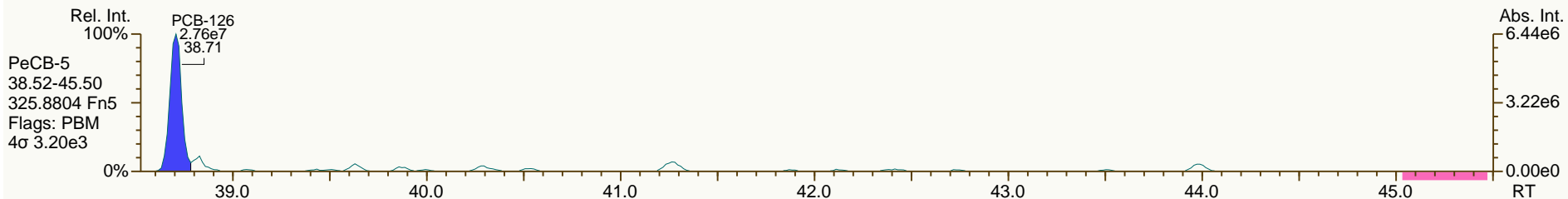
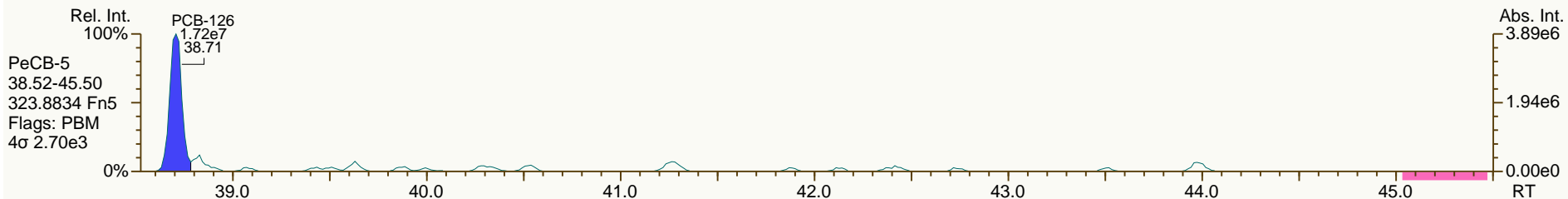
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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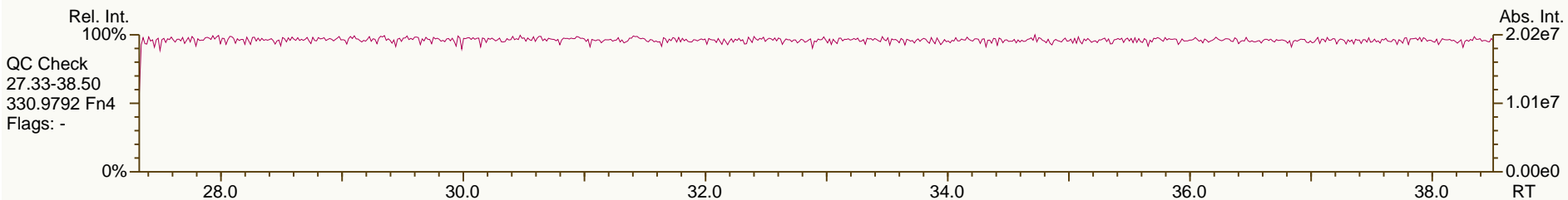
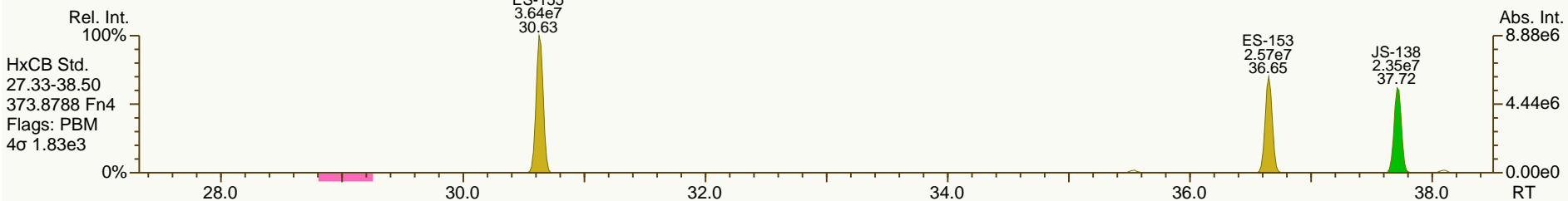
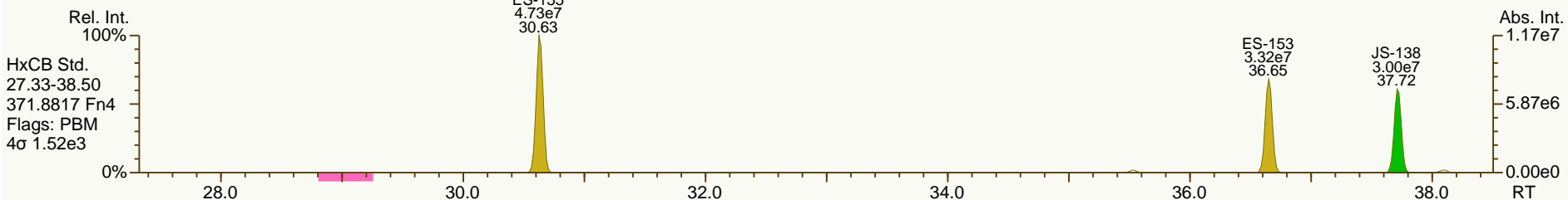
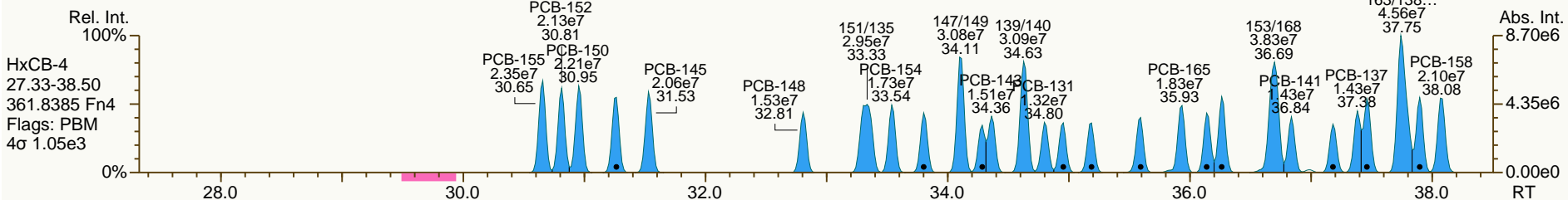
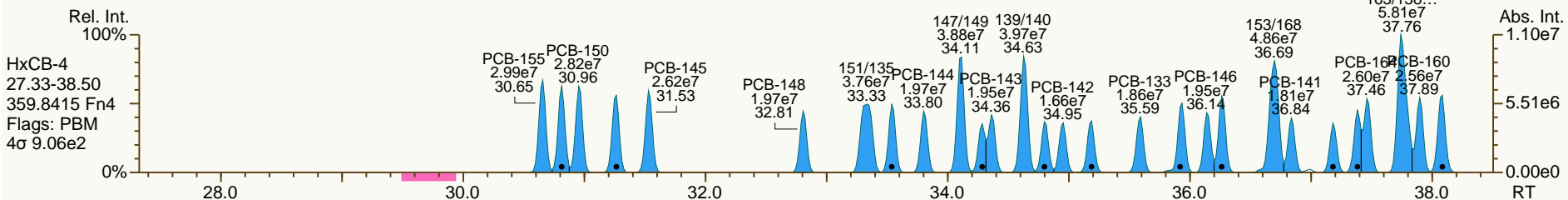
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-3  
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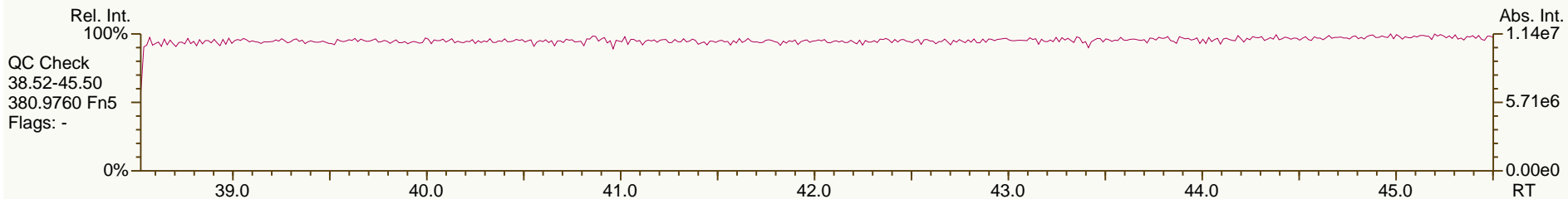
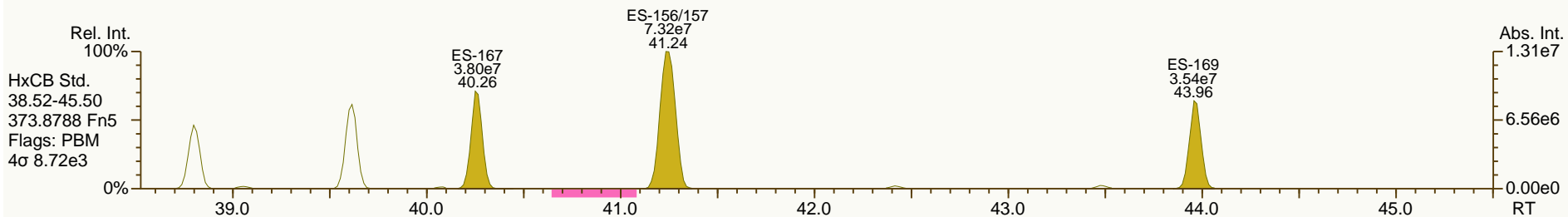
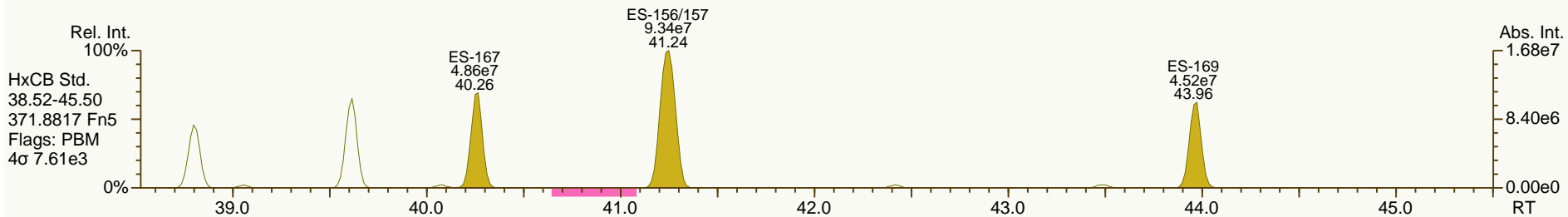
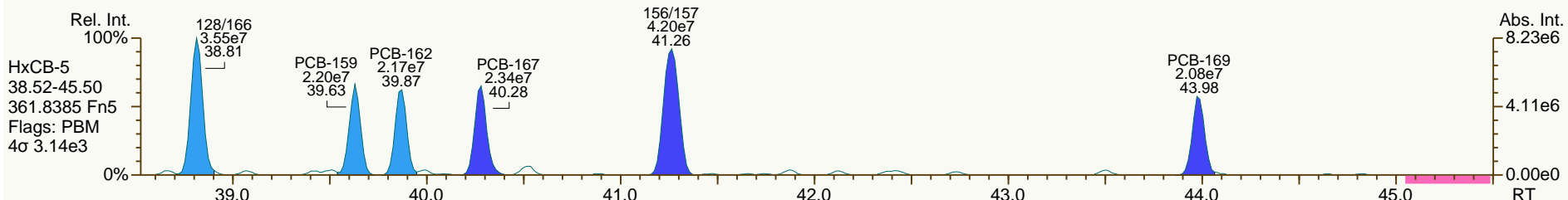
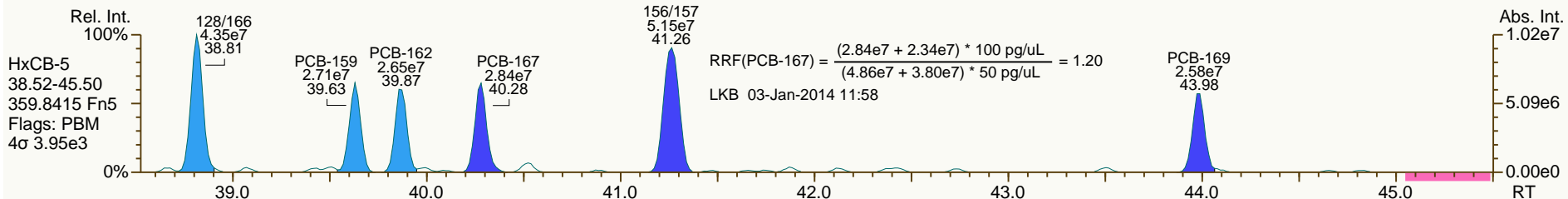




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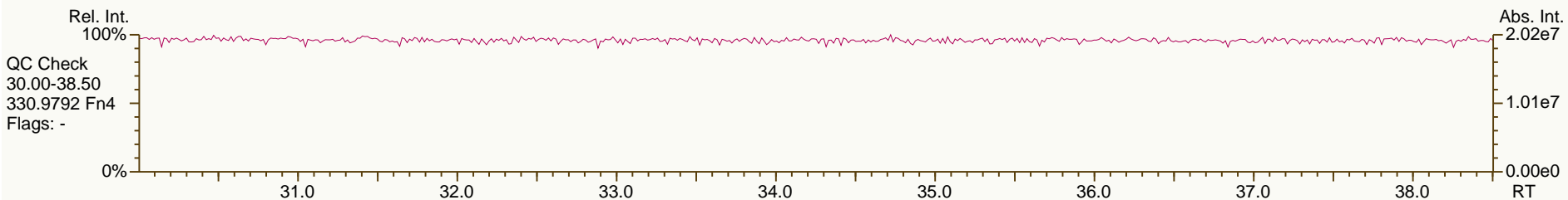
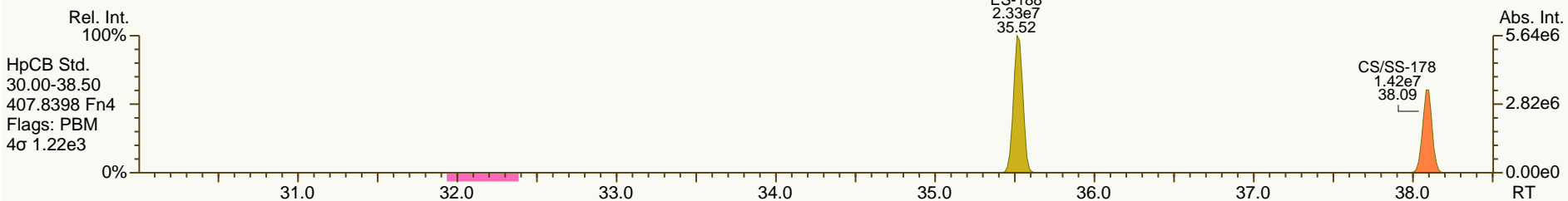
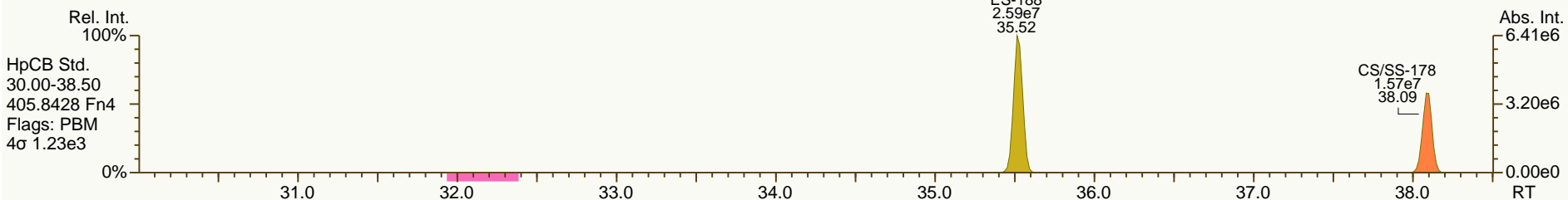
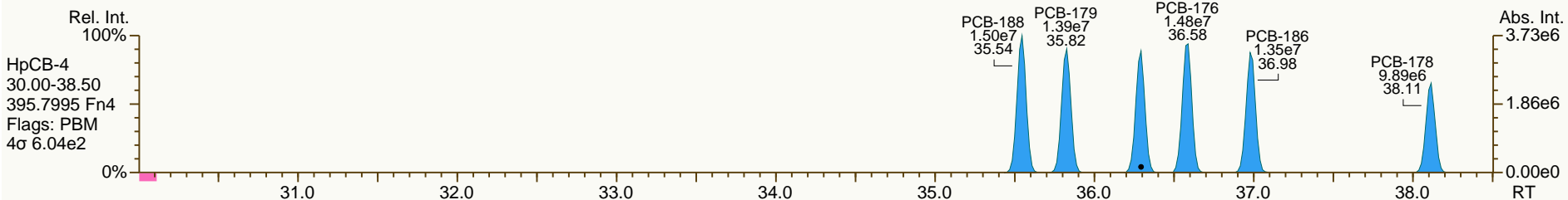
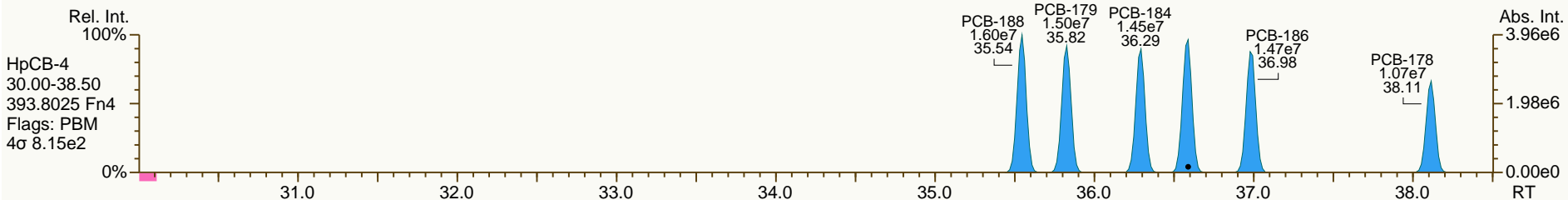
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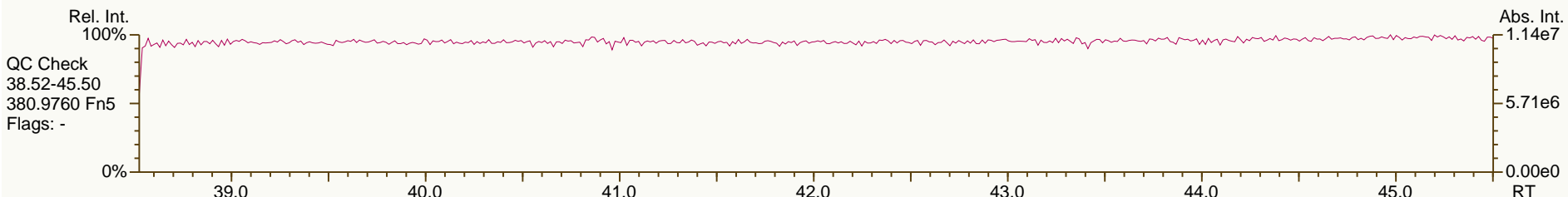
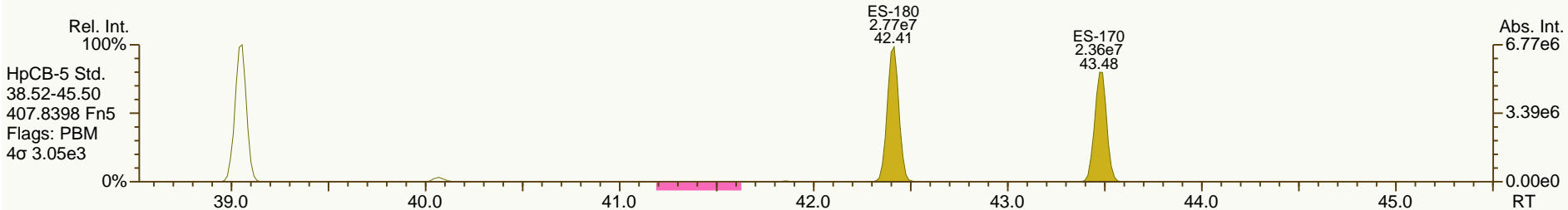
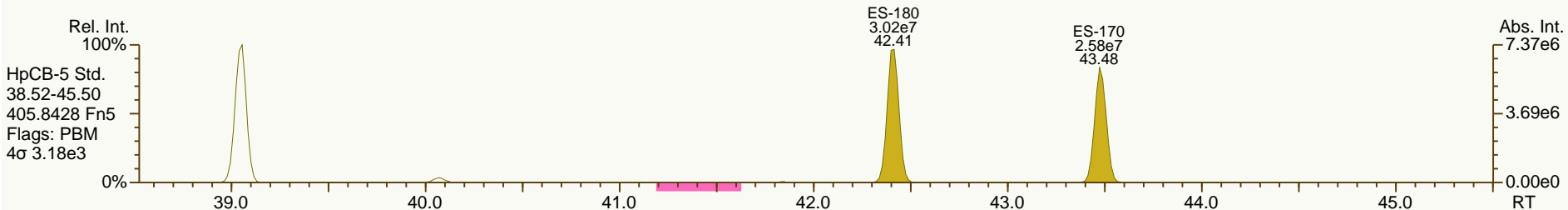
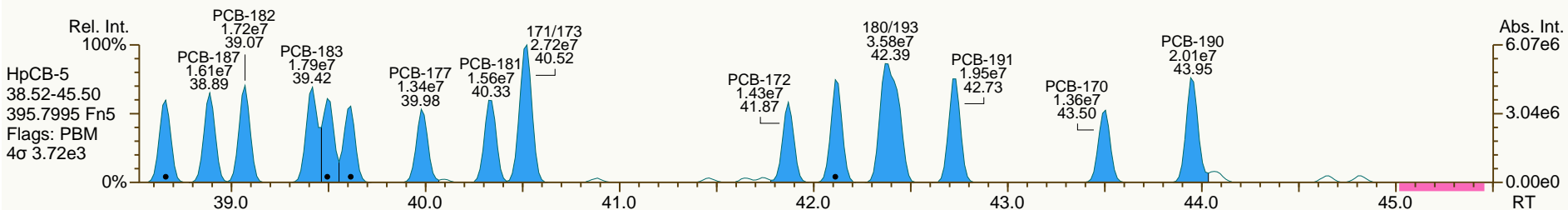
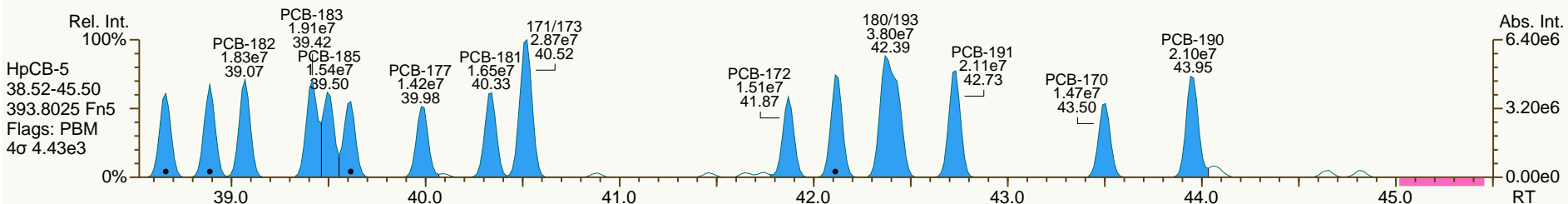
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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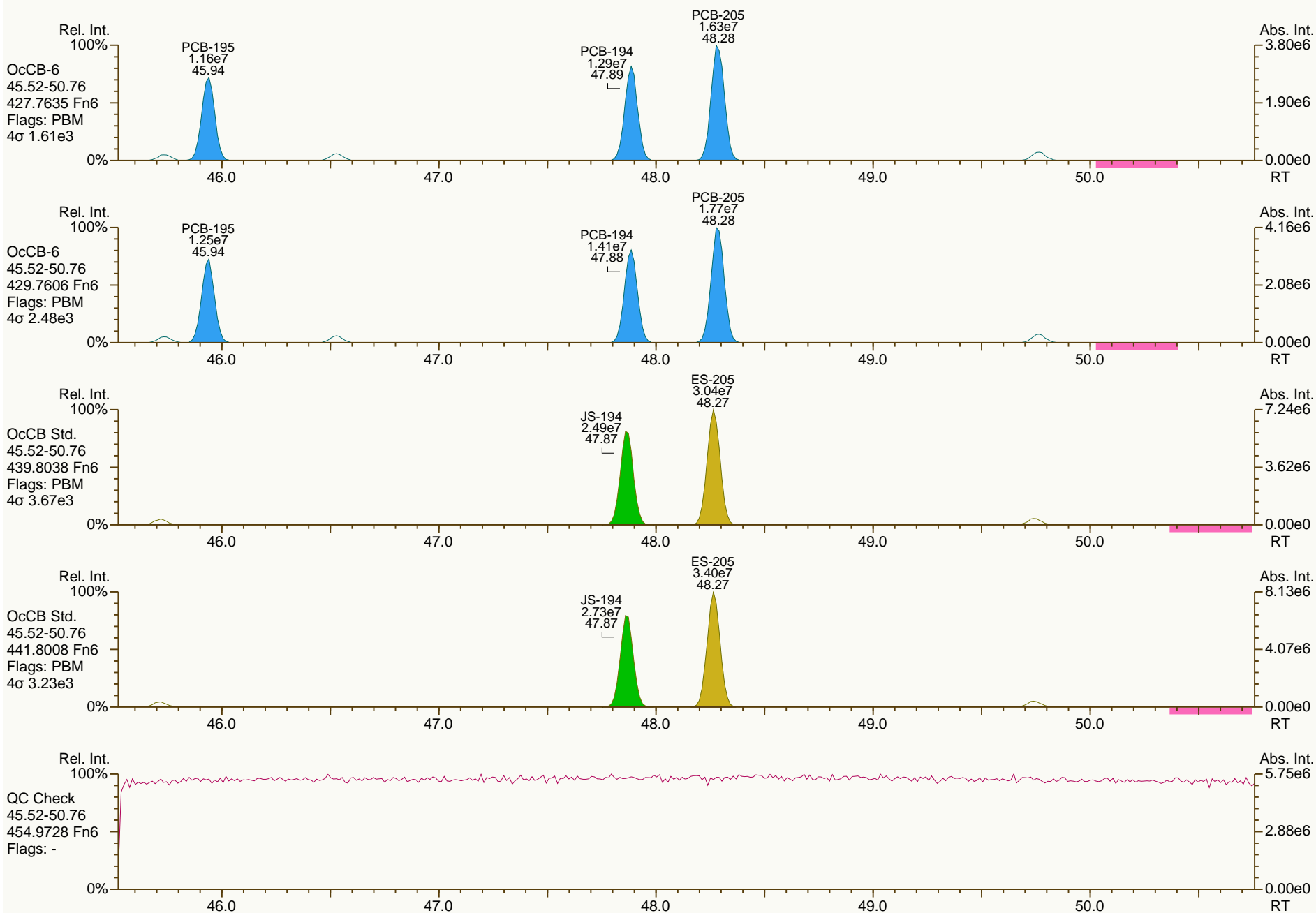
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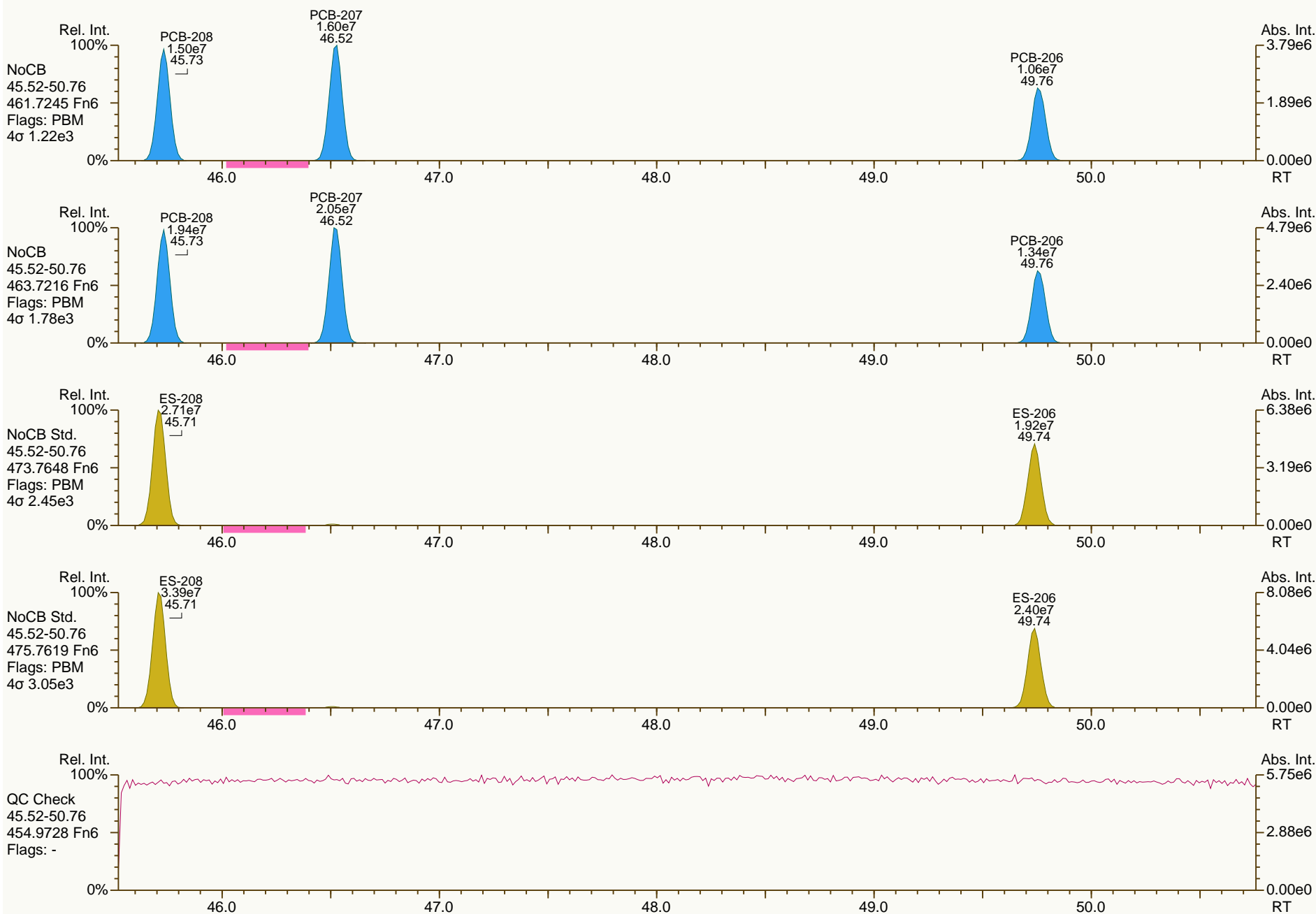
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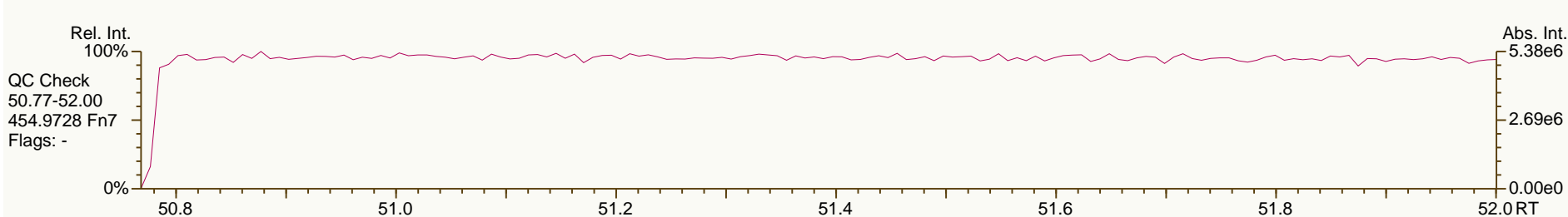
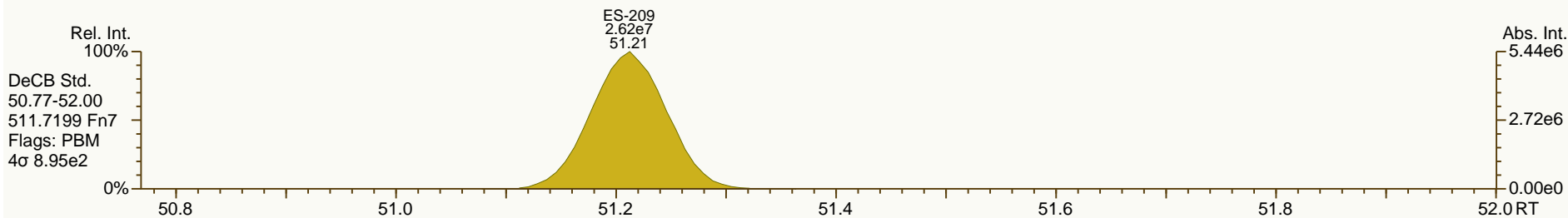
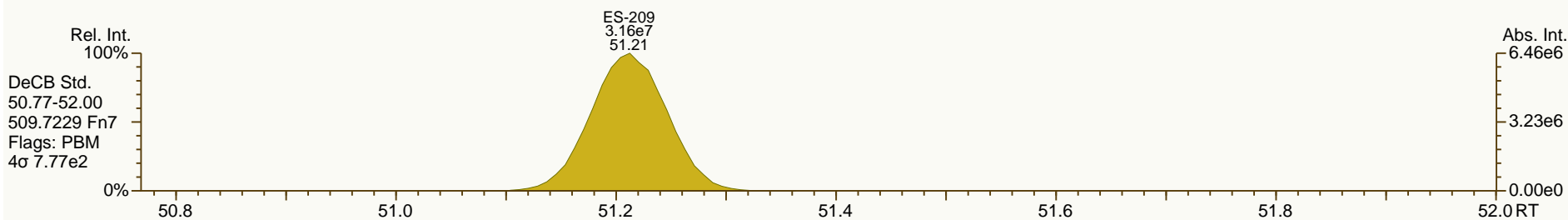
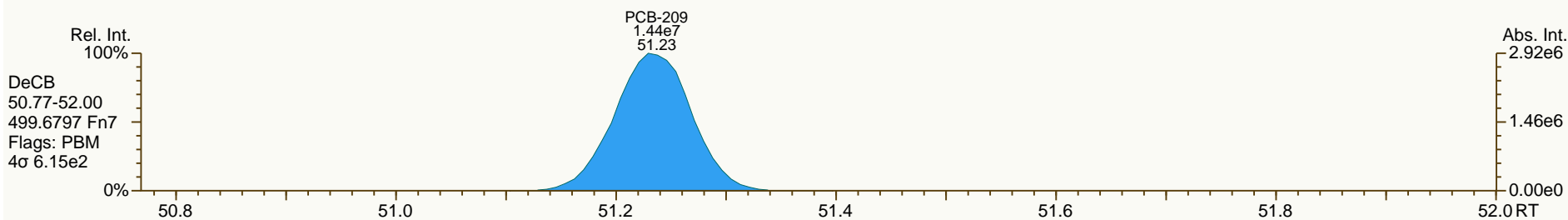
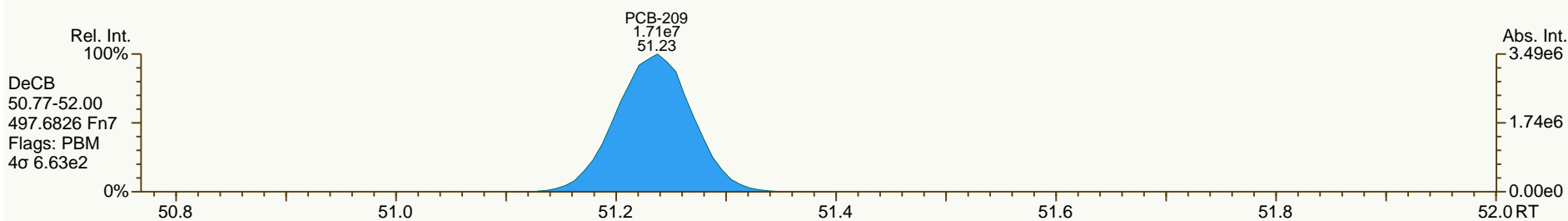
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User: LKB Datafile: 131220X05



SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

Acq: 20-Dec-2013 18:04:38  
User: LKB Datafile: 131220X05





PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.61E+08	0.78 Y	1.15	1.17	1.7%	
PCB-81 344'5'-TeCB	32.62	6.42E+08	0.78 Y	1.12	1.14	1.9%	
PCB-105 233'44'-PeCB	36.10	5.26E+08	0.62 Y	1.11	1.15	3.3%	
PCB-114 2344'5'-PeCB	35.56	5.80E+08	0.63 Y	1.20	1.24	3.3%	
PCB-118 23'44'5'-PeCB	35.09	5.38E+08	0.62 Y	1.19	1.22	2.6%	
PCB-123 23'44'5'-PeCB	34.81	5.67E+08	0.62 Y	1.21	1.23	1.3%	
PCB-126 33'44'5'-PeCB	38.71	4.45E+08	0.63 Y	1.11	1.14	2.8%	
PCB-156/157 ...-HxCB	41.27	9.01E+08	1.22 Y	1.10	1.11	1.1%	
PCB-167 23'44'55'-HxCB	40.29	4.96E+08	1.23 Y	1.16	1.18	1.4%	
PCB-169 33'44'55'-HxCB	43.99	4.52E+08	1.24 Y	1.12	1.14	1.2%	
PCB-189 233'44'55'-HpCB	46.13	4.15E+08	1.05 Y	1.07	1.10	2.3%	
PCB-209 DeCB	51.25	2.92E+08	1.18 Y	1.11	1.10	-1.4%	
ES PCB-1	12.03	2.53E+08	3.29 Y	1.19	1.17	-1.5%	
ES PCB-3	14.35	2.32E+08	3.37 Y	1.09	1.08	-0.6%	
ES PCB-4	14.61	1.12E+08	1.64 Y	0.52	0.52	-0.1%	
ES PCB-15	20.37	2.25E+08	1.54 Y	1.04	1.05	0.6%	
ES PCB-19	17.72	1.10E+08	1.08 Y	0.51	0.51	0.9%	
ES PCB-37	26.73	1.69E+08	1.08 Y	1.66	1.66	-0.4%	
ES PCB-54	20.66	8.74E+07	0.83 Y	0.86	0.86	-0.5%	
ES PCB-77	33.08	1.41E+08	0.79 Y	1.38	1.38	0.0%	
ES PCB-81	32.61	1.41E+08	0.77 Y	1.37	1.38	1.1%	
ES PCB-104	25.66	7.69E+07	1.65 Y	0.80	0.79	-1.2%	
ES PCB-105	36.08	1.14E+08	1.60 Y	1.20	1.18	-1.7%	
ES PCB-114	35.54	1.17E+08	1.63 Y	1.22	1.21	-1.1%	
ES PCB-118	35.07	1.10E+08	1.63 Y	1.16	1.14	-1.8%	
ES PCB-123	34.79	1.15E+08	1.60 Y	1.19	1.19	0.4%	
ES PCB-126	38.70	9.79E+07	1.53 Y	1.03	1.01	-1.7%	
ES PCB-153	36.66	6.88E+07	1.31 Y	1.11	1.11	-0.6%	
ES PCB-155	30.64	9.70E+07	1.30 Y	1.59	1.56	-1.7%	
ES PCB-156/157	41.25	2.03E+08	1.29 Y	1.60	1.64	2.3%	
ES PCB-167	40.27	1.05E+08	1.27 Y	1.67	1.70	1.7%	
ES PCB-169	43.97	9.92E+07	1.27 Y	1.56	1.60	2.7%	
ES PCB-170	43.49	5.71E+07	1.09 Y	0.95	0.95	0.6%	
ES PCB-180	42.42	6.95E+07	1.09 Y	1.14	1.16	2.0%	
ES PCB-188	35.53	5.77E+07	1.13 Y	0.94	0.93	-1.0%	
ES PCB-189	46.11	9.44E+07	1.04 Y	1.58	1.57	-0.5%	
ES PCB-202	40.08	6.04E+07	0.94 Y	0.97	0.97	0.4%	
ES PCB-205	48.28	7.51E+07	0.90 Y	1.24	1.25	0.7%	
ES PCB-206	49.75	5.00E+07	0.81 Y	0.83	0.83	0.6%	
ES PCB-208	45.72	7.07E+07	0.80 Y	1.17	1.18	0.4%	
ES PCB-209	51.22	6.66E+07	1.18 Y	1.11	1.11	0.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.88E+08	1.09 Y	1.11	1.11	0.2%	
SS PCB-111	33.10	1.16E+08	1.60 Y	1.03	1.00	-2.6%	
SS PCB-178	38.10	3.54E+07	1.11 Y	0.62	0.61	-1.0%	
CS PCB-28	23.16	1.88E+08	1.09 Y	1.85	1.84	-0.1%	
CS PCB-111	33.10	1.16E+08	1.60 Y	1.22	1.19	-2.2%	
CS PCB-178	38.10	3.54E+07	1.11 Y	0.58	0.57	-2.0%	
JS PCB-9	16.61	2.15E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.02E+08	0.80 Y	-	-	-	
JS PCB-101	30.80	9.69E+07	1.60 Y	-	-	-	
JS PCB-138	37.72	6.21E+07	1.30 Y	-	-	-	
JS PCB-194	47.88	6.00E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-2 3-MoCB	14.18	1.00E+09	3.28 Y	1.03	1.08	4.2%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-10 26'-DiCB	14.80	9.17E+08	1.60 Y	1.98	2.04	3.1%	
PCB-9 25'-DiCB	16.62	8.62E+08	1.63 Y	0.95	0.96	1.3%	
PCB-7 24'-DiCB	16.79	9.69E+08	1.64 Y	1.05	1.08	2.9%	
PCB-6 23'-DiCB	17.02	9.24E+08	1.65 Y	1.00	1.03	3.0%	
PCB-5 23'-DiCB	17.32	9.17E+08	1.63 Y	1.00	1.02	1.7%	
PCB-8 24'-DiCB	17.44	9.28E+08	1.63 Y	1.03	1.03	-0.2%	
PCB-14 35'-DiCB	19.01	1.09E+09	1.64 Y	1.18	1.21	2.2%	
PCB-11 33'-DiCB	19.80	9.34E+08	1.64 Y	1.01	1.04	2.7%	
PCB-13/12 34'/34'-DiCB	20.10	1.86E+09	1.64 Y	0.99	1.03	4.5%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.39E+09	1.05 Y	1.54	1.59	3.3%	
PCB-17 22'4'-TrCB	19.92	5.88E+08	1.05 Y	1.31	1.34	2.6%	
PCB-27 23'6'-TrCB	20.11	8.20E+08	1.05 Y	1.82	1.87	2.8%	
PCB-24 236'-TrCB	20.25	7.60E+08	1.05 Y	1.72	1.73	0.5%	
PCB-16 22'3'-TrCB	20.34	4.62E+08	1.06 Y	1.01	1.05	4.7%	
PCB-32 24'6'-TrCB	20.83	8.47E+08	1.05 Y	1.92	1.93	0.6%	
PCB-34 23'5'-TrCB	21.98	7.98E+08	0.99 Y	1.14	1.18	4.1%	
PCB-23 235'-TrCB	22.14	8.06E+08	0.98 Y	1.16	1.19	3.3%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.63E+09	0.98 Y	1.17	1.21	2.9%	
PCB-25 23'4'-TrCB	22.62	8.00E+08	0.97 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.90	8.40E+08	0.97 Y	1.23	1.24	1.5%	
PCB-28/20 244'/233'-TrCB	23.19	1.58E+09	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.37	1.64E+09	0.99 Y	1.17	1.21	3.3%	
PCB-22 234'-TrCB	23.75	7.44E+08	0.99 Y	1.08	1.10	2.0%	
PCB-36 33'5'-TrCB	25.14	8.17E+08	0.99 Y	1.17	1.21	3.4%	
PCB-39 34'5'-TrCB	25.46	8.41E+08	0.98 Y	1.21	1.25	2.8%	
PCB-38 345'-TrCB	25.99	7.83E+08	0.99 Y	1.10	1.16	4.9%	
PCB-35 33'4'-TrCB	26.39	7.26E+08	0.99 Y	1.04	1.07	3.4%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.00E+09	0.79 Y	0.88	0.89	1.4%	
PCB-45 22'36'-TeCB	23.27	4.42E+08	0.78 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.34	4.96E+08	0.80 Y	0.86	0.88	2.5%	
PCB-46 22'36'-TeCB	23.55	3.98E+08	0.79 Y	0.70	0.71	1.0%	
PCB-52 22'55'-TeCB	24.81	4.82E+08	0.79 Y	0.84	0.85	1.3%	
PCB-73 23'5'6'-TeCB	24.94	6.34E+08	0.78 Y	1.11	1.12	1.1%	
PCB-43 22'35'-TeCB	25.04	4.03E+08	0.80 Y	0.71	0.72	0.7%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.18E+09	0.79 Y	1.02	1.05	2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	4.79E+08	0.79 Y	0.84	0.85	1.4%	
PCB-44/47/65 ...-TeCB	25.74	1.57E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.01	2.05E+09	0.79 Y	1.17	1.22	4.3%	
PCB-42 22'34'-TeCB	26.18	4.36E+08	0.79 Y	0.76	0.77	1.5%	
PCB-41 22'34'-TeCB	26.51	3.81E+08	0.78 Y	0.69	0.68	-2.7%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.02E+09	0.80 Y	0.86	0.90	4.9%	
PCB-64 234'6'-TeCB	26.81	7.02E+08	0.79 Y	1.22	1.25	2.0%	
PCB-72 23'55'-TeCB	27.53	6.86E+08	0.78 Y	1.21	1.22	0.7%	
PCB-68 23'45'-TeCB	27.78	7.41E+08	0.78 Y	1.28	1.31	2.9%	
PCB-57 233'5'-TeCB	28.16	6.53E+08	0.78 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.36	6.72E+08	0.78 Y	1.18	1.19	1.1%	
PCB-67 23'45'-TeCB	28.52	7.17E+08	0.78 Y	1.26	1.27	1.1%	
PCB-63 234'5'-TeCB	28.75	7.44E+08	0.78 Y	1.30	1.32	1.7%	
PCB-61/70/74/76 ...-TeCB	29.04	2.76E+09	0.78 Y	1.20	1.22	2.2%	
PCB-66 23'44'-TeCB	29.32	6.42E+08	0.78 Y	1.10	1.14	3.3%	
PCB-55 233'4'-TeCB	29.47	6.33E+08	0.78 Y	1.12	1.12	0.3%	
PCB-56 233'4'-TeCB	29.91	6.29E+08	0.78 Y	1.11	1.12	0.6%	
PCB-60 2344'-TeCB	30.10	6.41E+08	0.78 Y	1.14	1.14	0.2%	
PCB-80 33'55'-TeCB	30.43	7.47E+08	0.78 Y	1.31	1.32	0.9%	
PCB-79 33'45'-TeCB	31.75	7.60E+08	0.78 Y	1.31	1.35	3.2%	
PCB-78 33'45'-TeCB	32.25	6.10E+08	0.78 Y	1.06	1.08	1.9%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-96 22'366'-PeCB	26.00	3.93E+08	0.65 Y	1.23	1.28	3.9%	
PCB-103 22'45'6'-PeCB	27.70	4.37E+08	0.62 Y	0.93	0.95	1.6%	
PCB-94 22'356'-PeCB	27.89	3.75E+08	0.62 Y	0.80	0.81	1.6%	
PCB-95 22'35'6'-PeCB	28.27	4.04E+08	0.62 Y	0.87	0.87	0.9%	
PCB-100/93 22'44'6/22'356'-PeCB	28.49	8.29E+08	0.62 Y	0.86	0.90	3.9%	
PCB-102 22'456'-PeCB	28.60	4.01E+08	0.62 Y	0.97	0.87	-10.2%	
PCB-98 22'34'6'-PeCB	28.67	3.96E+08	0.62 Y	0.76	0.86	13.2%	
PCB-88 22'346'-PeCB	28.98	3.93E+08	0.62 Y	0.80	0.85	6.8%	
PCB-91 22'34'6'-PeCB	29.04	4.40E+08	0.63 Y	0.94	0.95	0.9%	
PCB-84 22'33'6'-PeCB	29.23	3.38E+08	0.63 Y	0.72	0.73	2.3%	
PCB-89 22'346'-PeCB	29.65	3.62E+08	0.62 Y	0.76	0.78	2.8%	
PCB-121 23'45'6'-PeCB	29.99	5.66E+08	0.62 Y	1.20	1.23	2.2%	
PCB-92 22'355'-PeCB	30.31	3.81E+08	0.62 Y	0.82	0.83	0.7%	
PCB-113/90/101 ...-PeCB	30.80	1.39E+09	0.62 Y	0.99	1.01	2.0%	
PCB-83 22'33'5'-PeCB	31.24	3.22E+08	0.62 Y	0.71	0.70	-2.5%	
PCB-99 22'44'5'-PeCB	31.34	4.51E+08	0.62 Y	0.92	0.98	6.1%	
PCB-112 233'56'-PeCB	31.44	5.42E+08	0.62 Y	1.17	1.17	0.5%	
PCB-108/119/86/97/125...-PeCB	31.78	2.82E+09	0.63 Y	0.98	1.02	3.8%	
PCB-117 234'56'-PeCB	32.32	5.03E+08	0.62 Y	1.14	1.09	-4.3%	
PCB-116/85 23456/22'344'-PeCB	32.41	9.15E+08	0.62 Y	0.94	0.99	5.3%	
PCB-110 233'4'6'-PeCB	32.53	5.11E+08	0.62 Y	1.12	1.11	-1.0%	

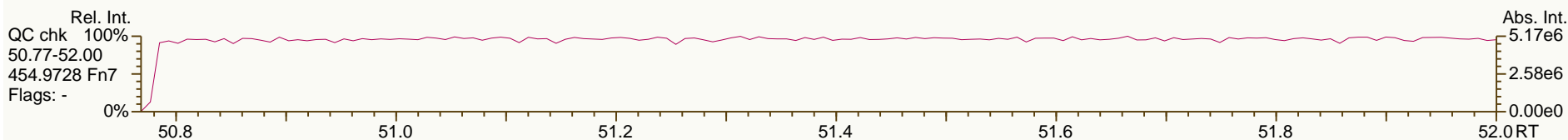
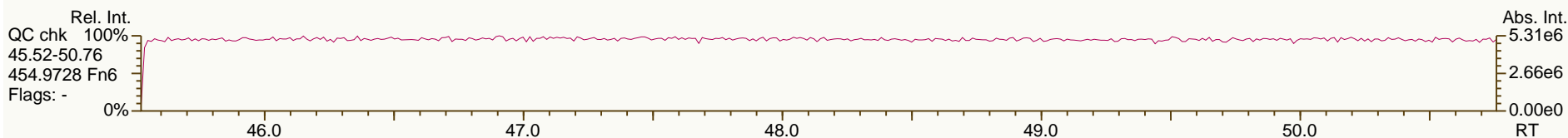
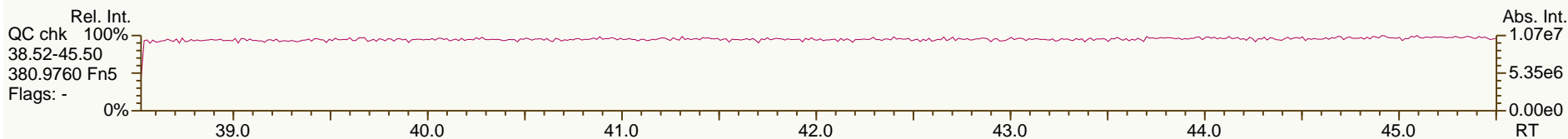
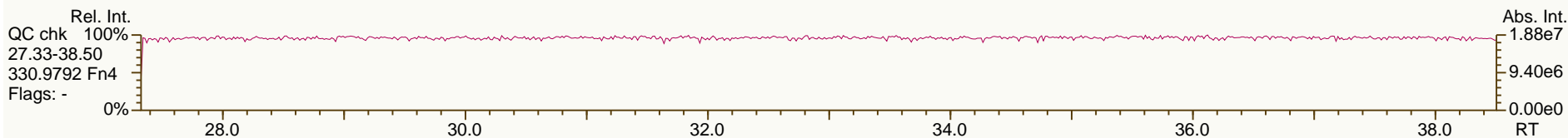
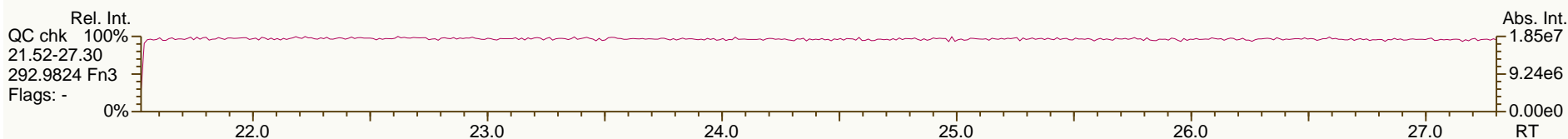
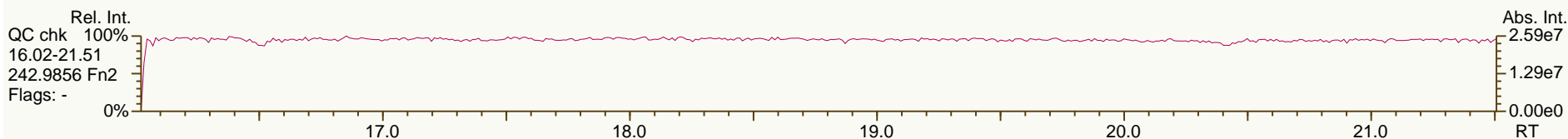
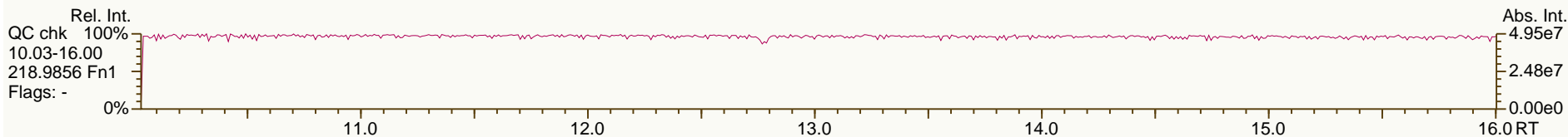
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.34E+08	0.63 Y	1.16	1.16	-0.2%	
PCB-82 22'33'4-PeCB	32.81	3.31E+08	0.62 Y	0.70	0.72	3.0%	
PCB-111 233'55'-PeCB	33.12	5.66E+08	0.62 Y	1.22	1.23	0.5%	
PCB-120 23'455'-PeCB	33.52	5.76E+08	0.62 Y	1.21	1.25	2.9%	
PCB-107/124 ...-PeCB	34.49	1.03E+09	0.62 Y	1.10	1.12	2.0%	
PCB-109 233'46-PeCB	34.70	5.82E+08	0.62 Y	1.25	1.26	0.6%	
PCB-106 233'45-PeCB	34.92	5.22E+08	0.62 Y	1.11	1.13	2.4%	
PCB-122 233'4'5'-PeCB	35.38	4.75E+08	0.63 Y	0.99	1.02	2.2%	
PCB-127 33'455'-PeCB	37.34	5.12E+08	0.63 Y	1.10	1.12	2.2%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-152 22'3566'-HxCB	30.82	4.78E+08	1.27 Y	1.17	1.23	5.1%	
PCB-150 22'34'66'-HxCB	30.96	4.68E+08	1.27 Y	1.18	1.21	2.7%	
PCB-136 22'33'66'-HxCB	31.27	4.35E+08	1.27 Y	1.07	1.12	5.1%	
PCB-145 22'3466'-HxCB	31.54	4.41E+08	1.27 Y	1.11	1.14	2.1%	
PCB-148 22'34'56'-HxCB	32.82	3.38E+08	1.27 Y	1.18	1.23	3.8%	
PCB-151/135 ...-HxCB	33.34	6.39E+08	1.28 Y	1.14	1.16	1.9%	
PCB-154 22'44'56'-HxCB	33.55	3.76E+08	1.27 Y	1.34	1.37	1.9%	
PCB-144 22'345'6'-HxCB	33.81	3.29E+08	1.28 Y	1.18	1.20	1.2%	
PCB-147/149 ...-HxCB	34.11	6.68E+08	1.27 Y	1.18	1.21	3.2%	
PCB-134 22'33'56-HxCB	34.29	2.65E+08	1.26 Y	0.92	0.96	4.4%	
PCB-143 22'3456'-HxCB	34.37	3.08E+08	1.28 Y	1.13	1.12	-1.0%	
PCB-139/140 ...-HxCB	34.64	6.80E+08	1.27 Y	1.21	1.24	2.6%	
PCB-131 22'33'46-HxCB	34.81	2.87E+08	1.28 Y	1.03	1.04	1.8%	
PCB-142 22'3456-HxCB	34.96	2.82E+08	1.29 Y	0.99	1.03	3.6%	
PCB-132 22'33'46'-HxCB	35.19	2.84E+08	1.30 Y	1.03	1.03	0.3%	
PCB-133 22'33'55'-HxCB	35.59	3.19E+08	1.28 Y	1.13	1.16	2.4%	
PCB-165 233'55'6-HxCB	35.94	3.83E+08	1.28 Y	1.41	1.39	-1.3%	
PCB-146 22'34'55'-HxCB	36.15	3.42E+08	1.27 Y	1.20	1.24	3.4%	
PCB-161 233'45'6-HxCB	36.27	4.26E+08	1.28 Y	1.52	1.55	1.8%	
PCB-153/168 ...-HxCB	36.70	8.26E+08	1.27 Y	1.46	1.50	3.0%	
PCB-141 22'3455'-HxCB	36.85	3.01E+08	1.29 Y	1.09	1.10	0.7%	
PCB-130 22'33'45'-HxCB	37.19	2.69E+08	1.27 Y	0.97	0.98	0.6%	
PCB-137 22'344'5-HxCB	37.39	3.35E+08	1.27 Y	1.16	1.22	4.6%	
PCB-164 233'4'5'6-HxCB	37.47	4.16E+08	1.29 Y	1.50	1.51	0.9%	
PCB-163/138/129 ...-HxCB	37.76	1.01E+09	1.27 Y	1.19	1.23	3.3%	
PCB-160 233'456-HxCB	37.90	4.29E+08	1.27 Y	1.52	1.56	2.8%	
PCB-158 233'44'6-HxCB	38.09	4.60E+08	1.28 Y	1.66	1.67	0.5%	
PCB-128/166 ...-HxCB	38.82	7.86E+08	1.23 Y	0.90	0.93	3.7%	
PCB-159 233'455'-HxCB	39.64	4.70E+08	1.23 Y	1.11	1.12	0.1%	
PCB-162 233'4'55'-HxCB	39.88	4.62E+08	1.22 Y	1.07	1.10	2.4%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-179 22'33'566'-HpCB	35.83	2.67E+08	1.10 Y	1.16	1.16	-0.3%	
PCB-184 22'344'66'-HpCB	36.30	2.61E+08	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	2.85E+08	1.09 Y	1.23	1.24	0.3%	
PCB-186 22'34566'-HpCB	36.99	2.59E+08	1.08 Y	1.13	1.12	-0.3%	
PCB-178 22'33'55'6'-HpCB	38.12	1.94E+08	1.08 Y	0.84	0.84	-0.6%	
PCB-175 22'33'45'6'-HpCB	38.67	3.05E+08	1.06 Y	1.07	1.10	2.1%	
PCB-187 22'34'55'6'-HpCB	38.90	3.25E+08	1.06 Y	1.14	1.17	2.6%	
PCB-182 22'344'56'-HpCB	39.08	3.35E+08	1.06 Y	1.18	1.21	2.7%	
PCB-183 22'344'5'6'-HpCB	39.42	3.29E+08	1.05 Y	1.20	1.18	-1.8%	
PCB-185 22'3455'6'-HpCB	39.51	3.20E+08	1.06 Y	1.06	1.15	8.5%	
PCB-174 22'33'456'-HpCB	39.62	2.73E+08	1.06 Y	0.99	0.98	-0.9%	
PCB-177 22'33'45'6'-HpCB	39.99	2.68E+08	1.06 Y	0.95	0.96	1.4%	
PCB-181 22'344'56'-HpCB	40.34	3.10E+08	1.06 Y	1.09	1.12	2.5%	
PCB-171/173 ...-HpCB	40.53	5.43E+08	1.06 Y	0.95	0.98	3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.79E+08	1.06 Y	0.99	1.00	1.6%	
PCB-192 233'455'6'-HpCB	42.13	3.67E+08	1.06 Y	1.29	1.32	2.6%	
PCB-180/193 ...-HpCB	42.40	7.06E+08	1.06 Y	1.26	1.27	0.7%	
PCB-191 233'44'5'6'-HpCB	42.74	3.88E+08	1.06 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.51	2.72E+08	1.05 Y	1.14	1.19	4.9%	
PCB-190 233'44'56'-HpCB	43.96	3.86E+08	1.06 Y	1.66	1.69	1.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-201 22'33'45'66'-OcCB	40.89	3.08E+08	0.92 Y	1.22	1.27	4.3%	
PCB-204 22'344'566'-OcCB	41.47	2.70E+08	0.92 Y	1.12	1.12	0.3%	
PCB-197 22'33'44'66'-OcCB	41.66	2.93E+08	0.91 Y	1.19	1.21	1.7%	
PCB-200 22'33'4566'-OcCB	41.75	2.71E+08	0.92 Y	1.11	1.12	1.3%	
PCB-198/199 ...-OcCB	44.07	3.95E+08	0.91 Y	0.81	0.82	0.9%	
PCB-196 22'33'44'56'-OcCB	44.65	2.03E+08	0.92 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.82	2.13E+08	0.92 Y	0.87	0.88	1.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.31E+08	0.91 Y	0.77	0.77	0.4%	
PCB-194 22'33'44'55'-OcCB	47.90	2.54E+08	0.92 Y	0.84	0.85	0.4%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-207 22'33'44'566'-NoCB	46.53	3.40E+08	0.79 Y	1.19	1.20	1.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

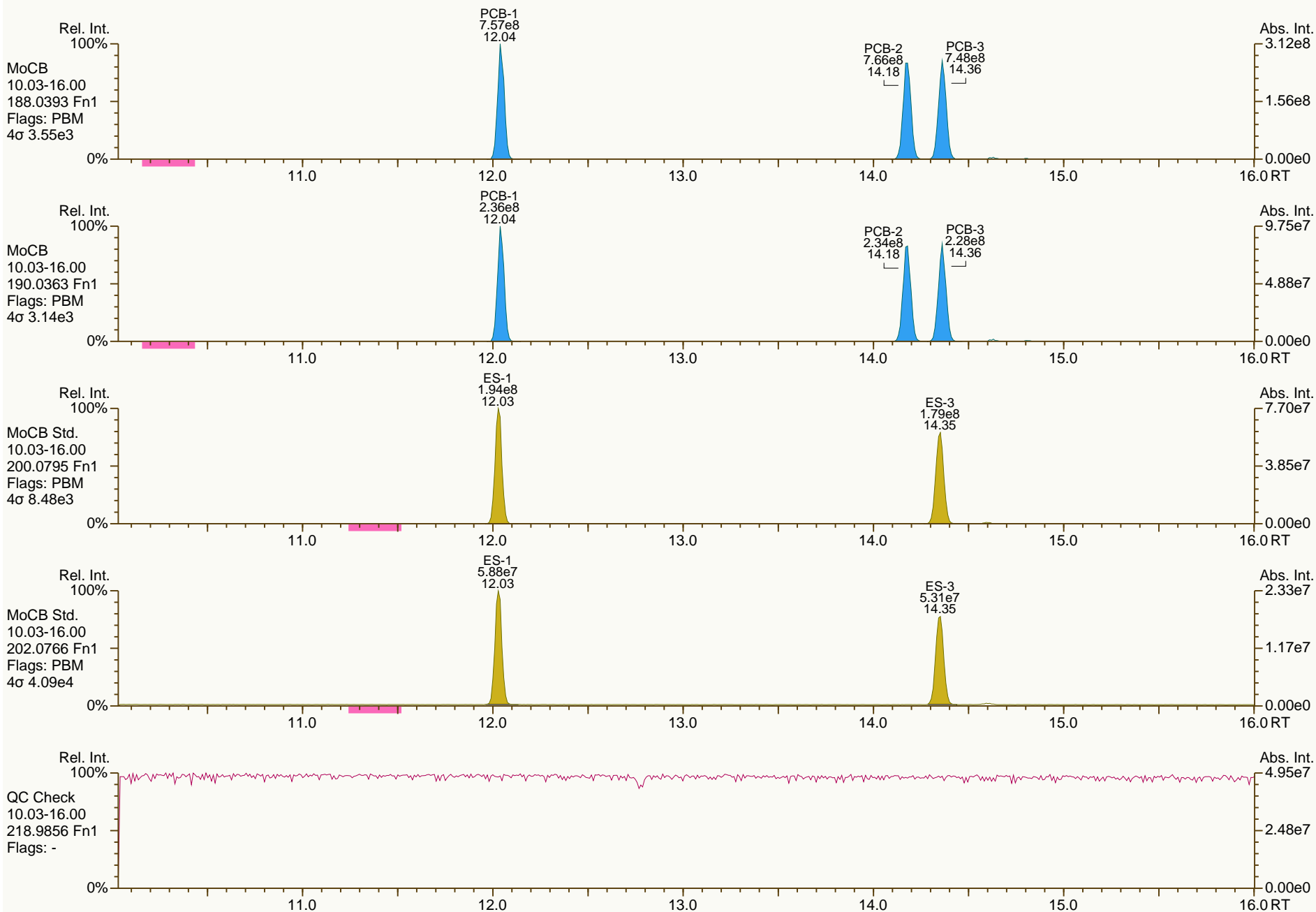
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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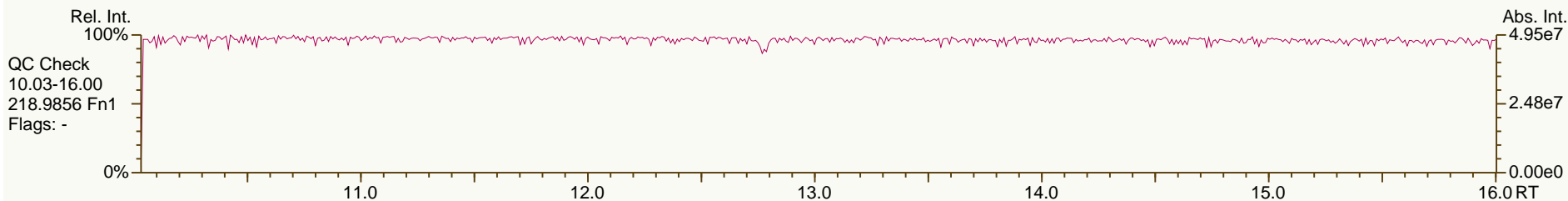
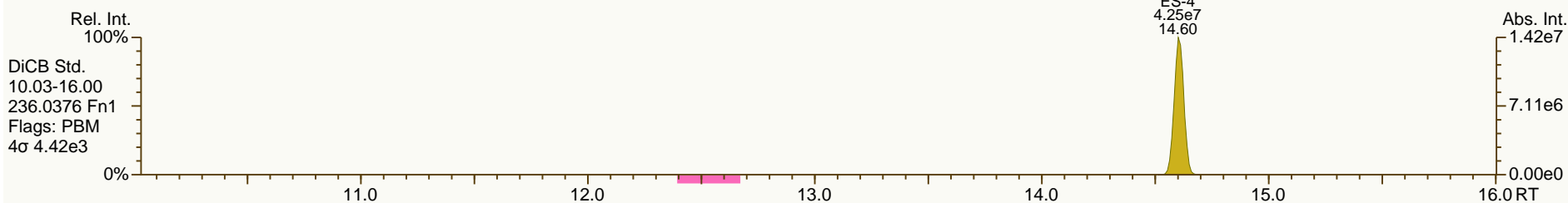
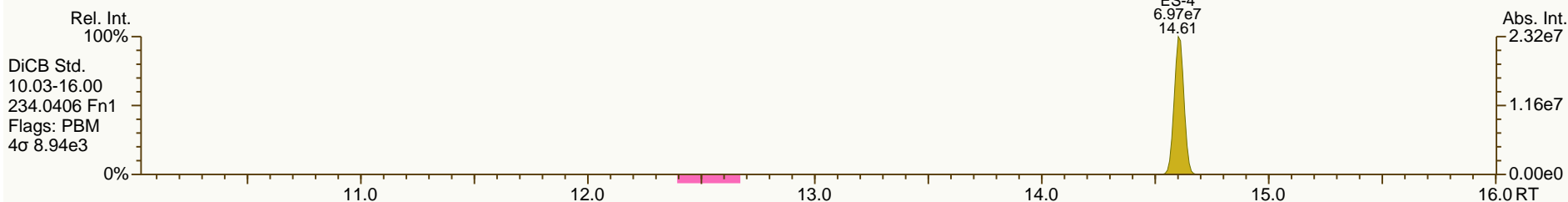
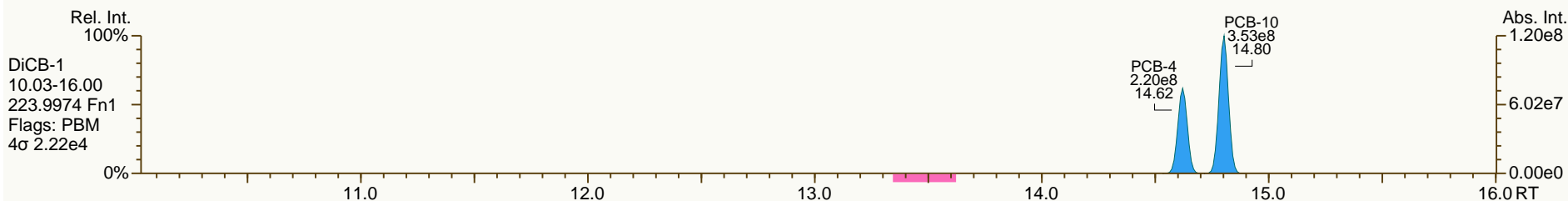
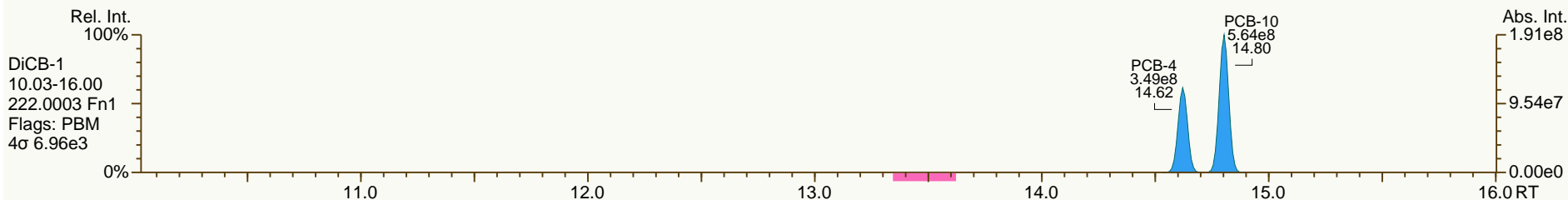




SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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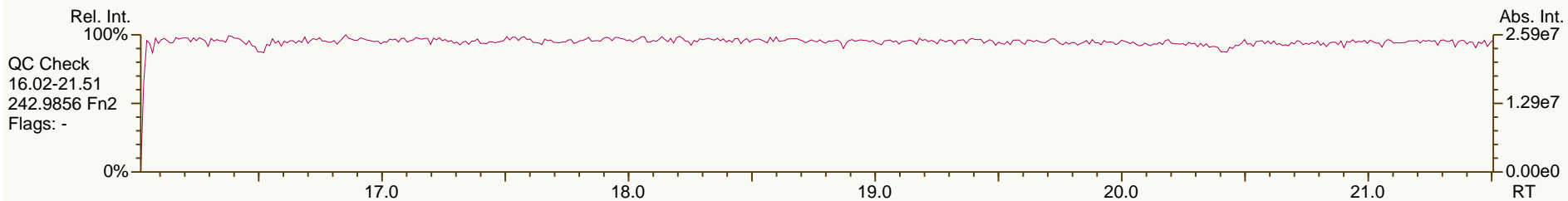
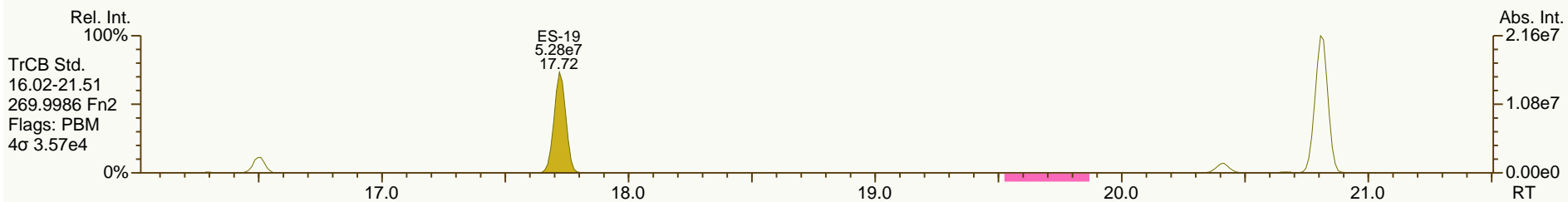
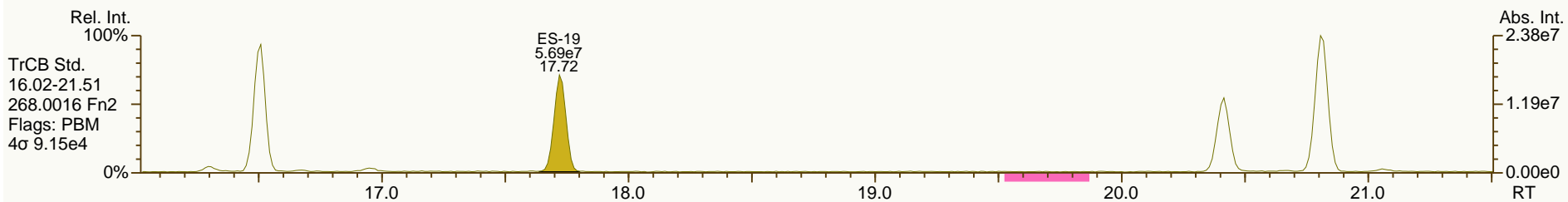
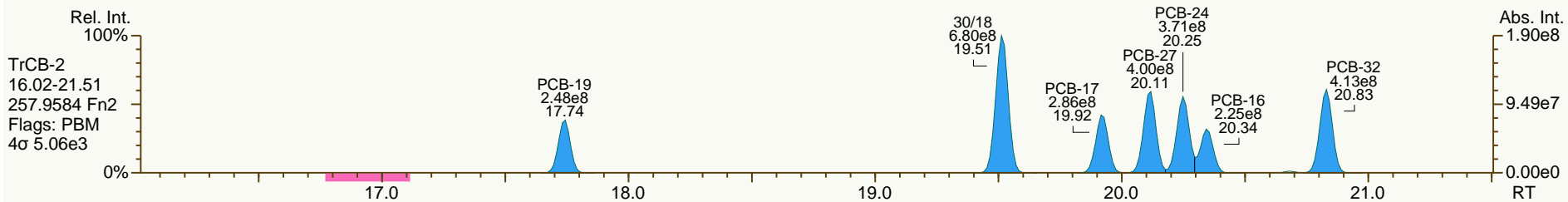
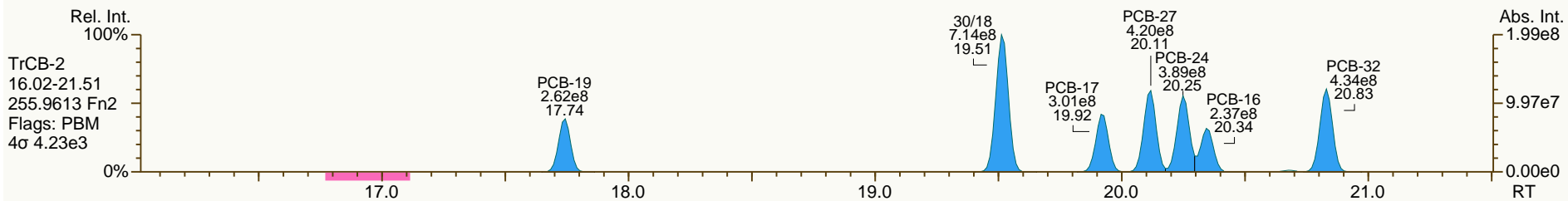
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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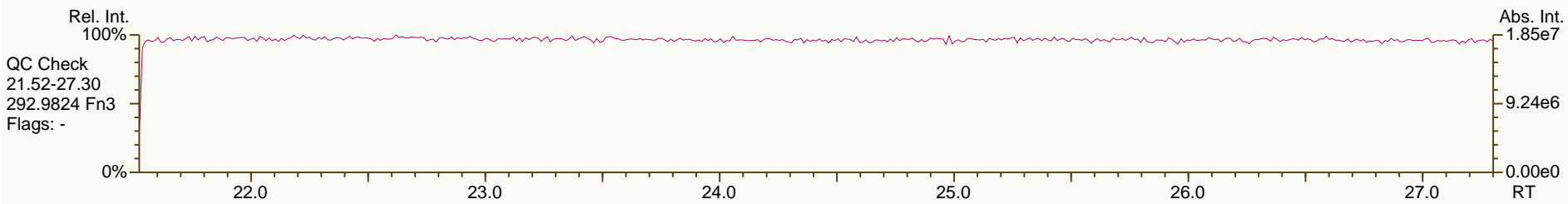
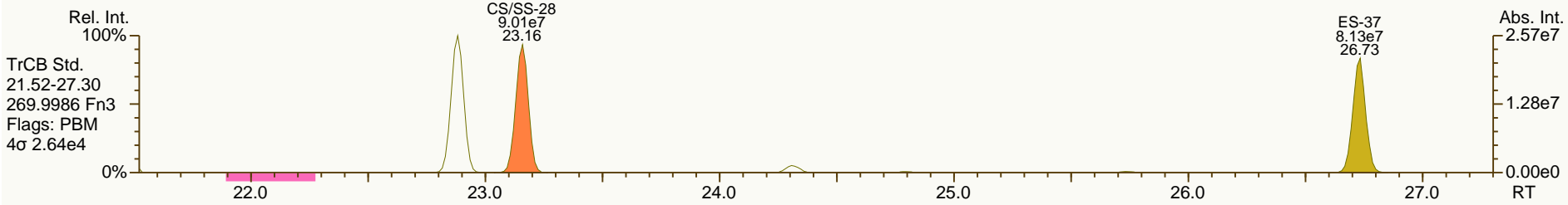
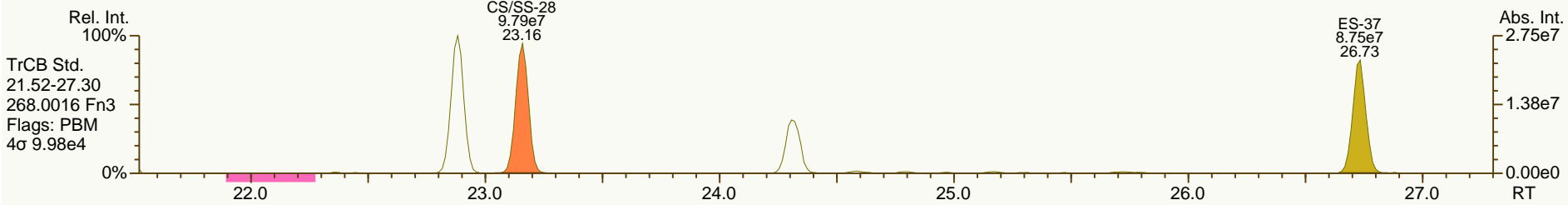
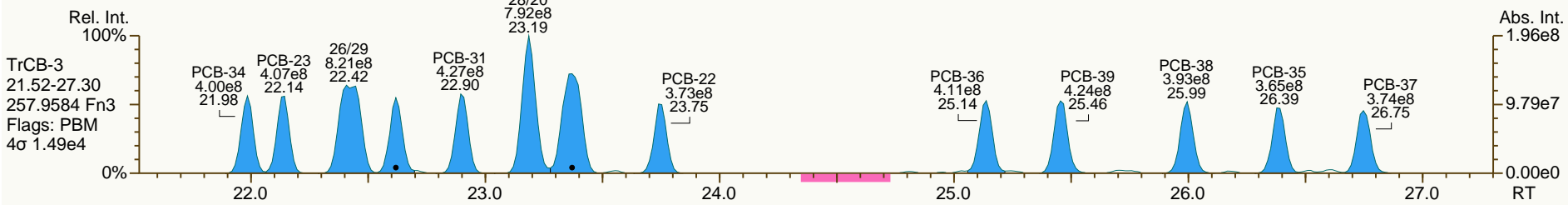
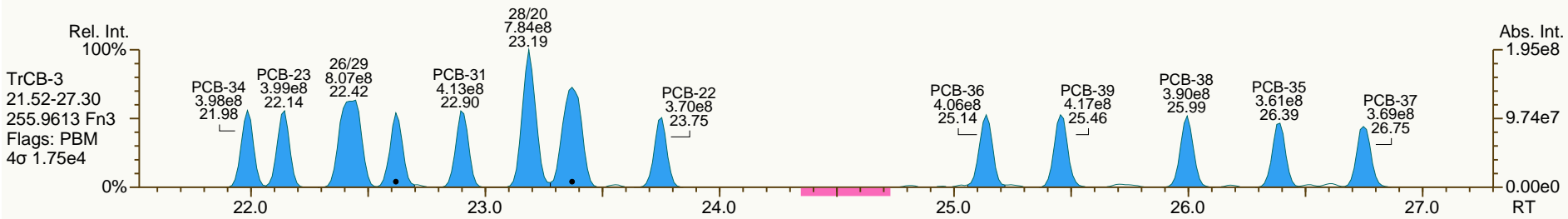
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-2  
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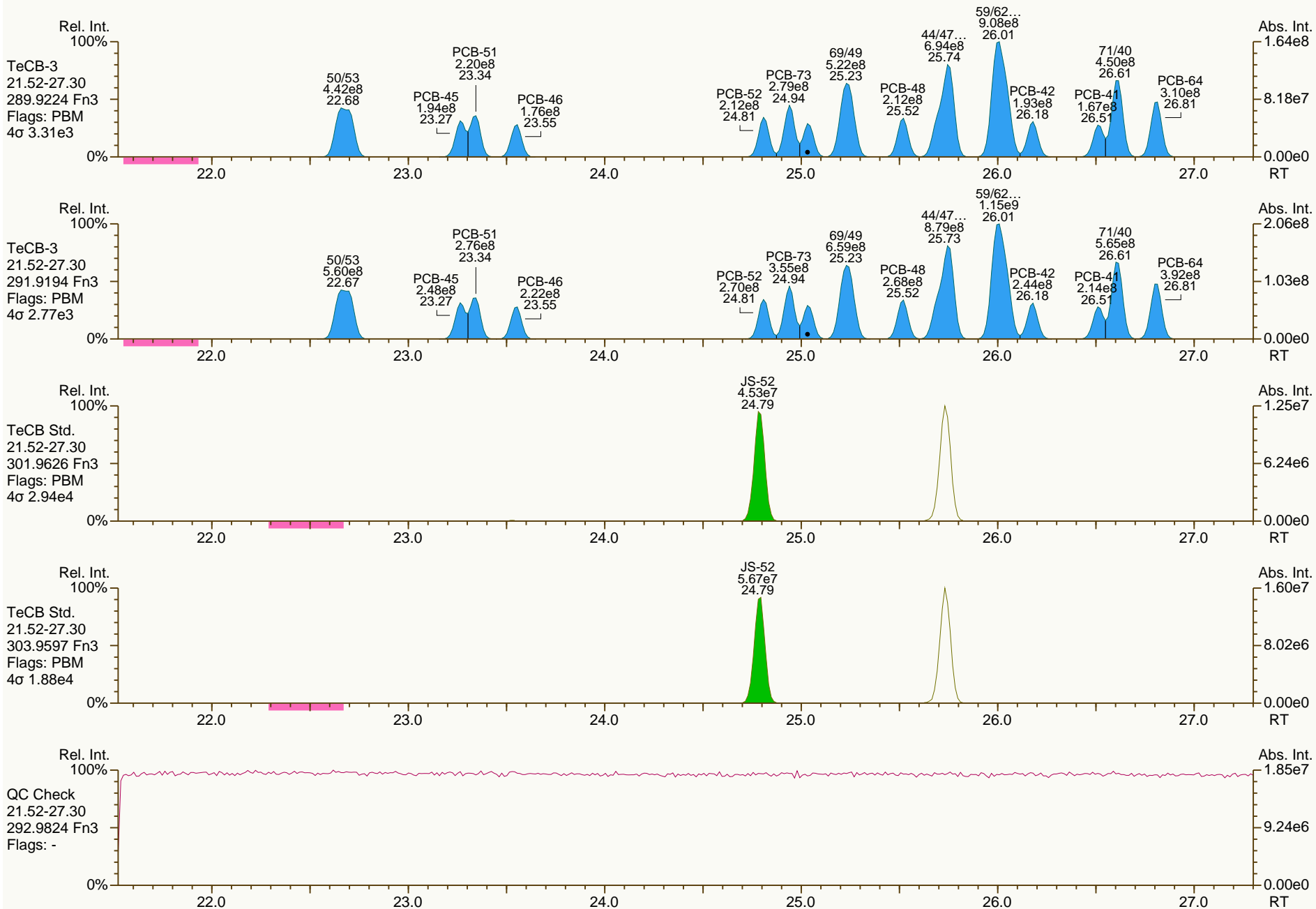
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

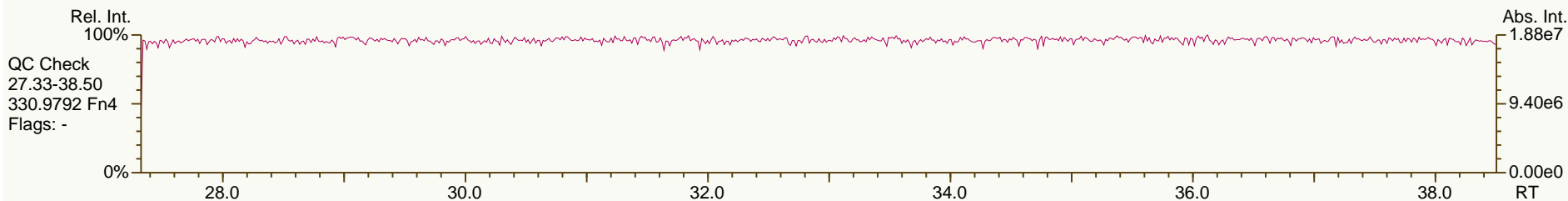
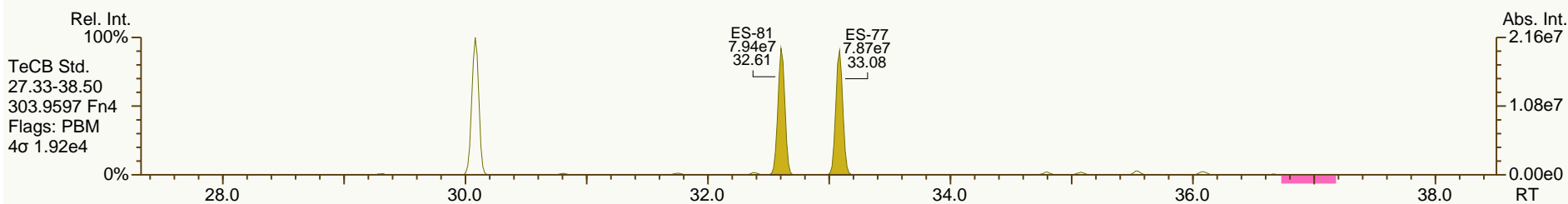
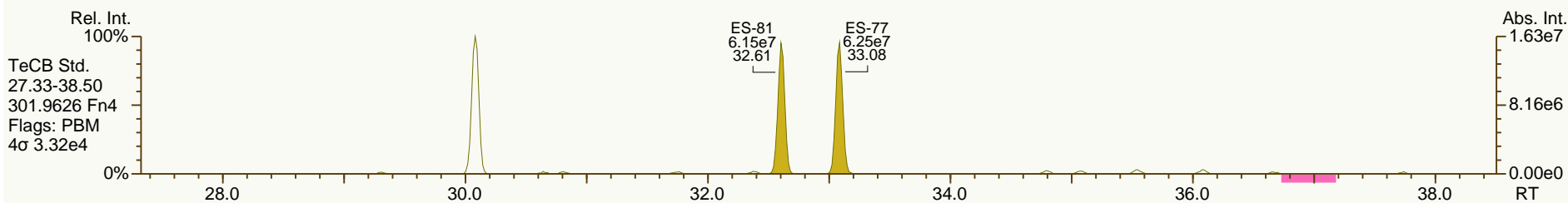
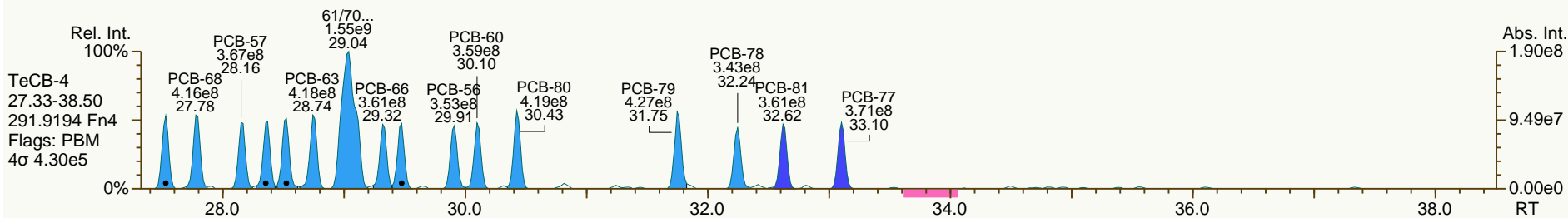
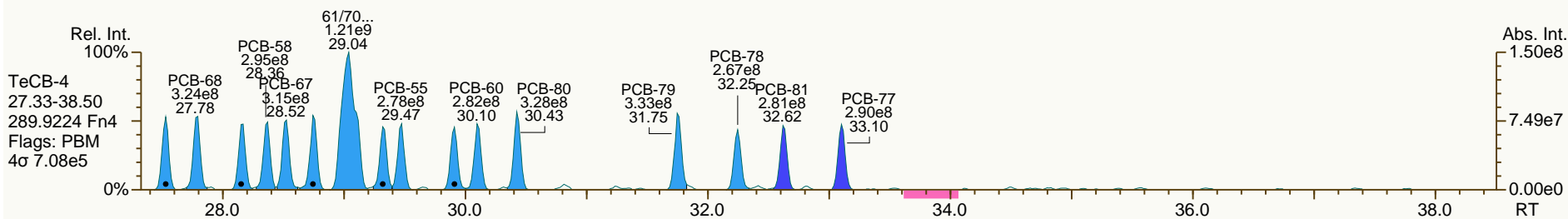
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

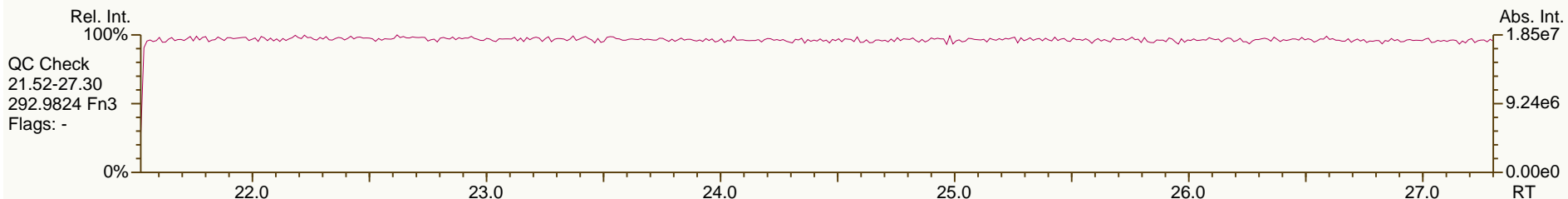
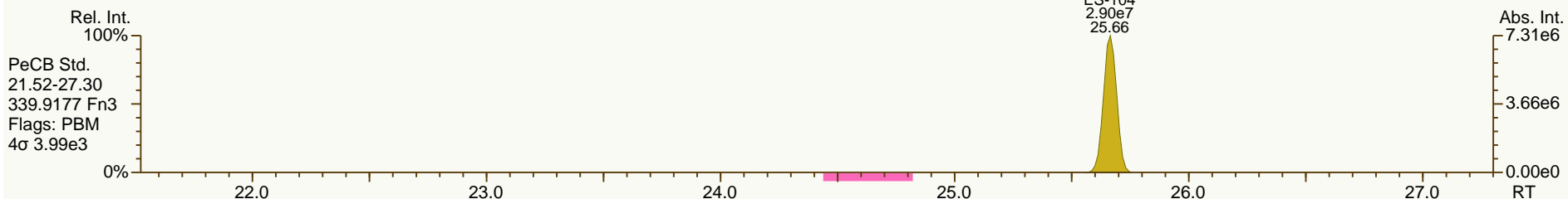
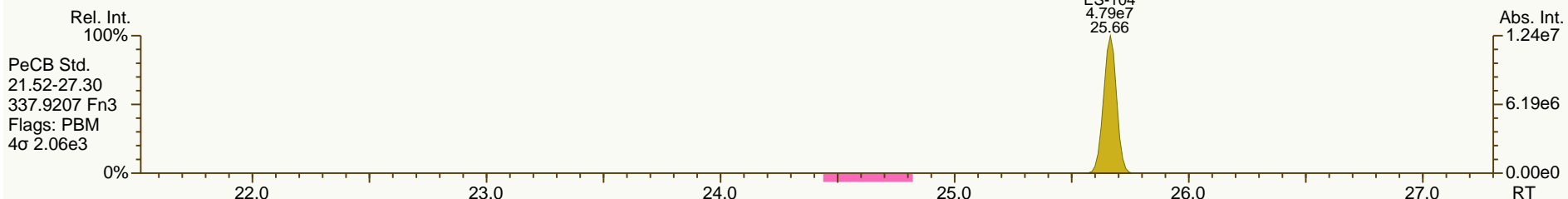
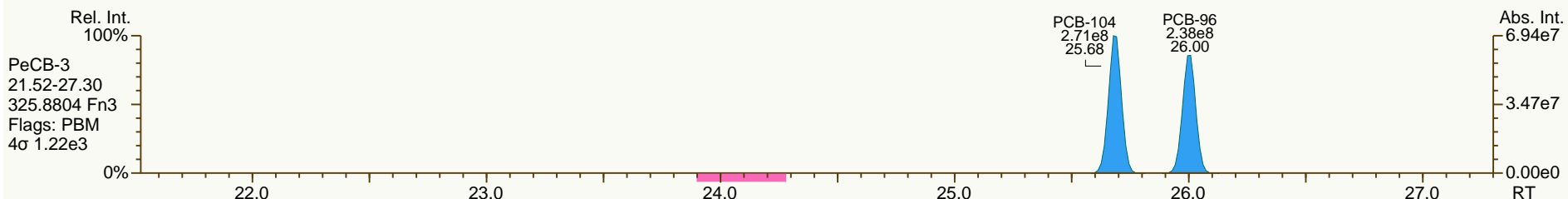
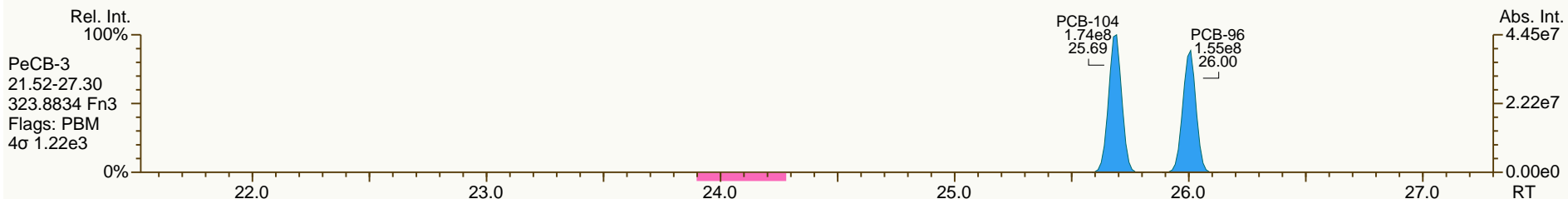
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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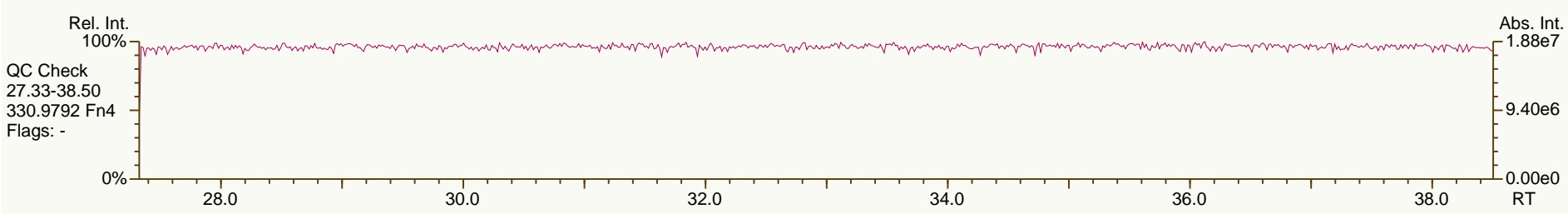
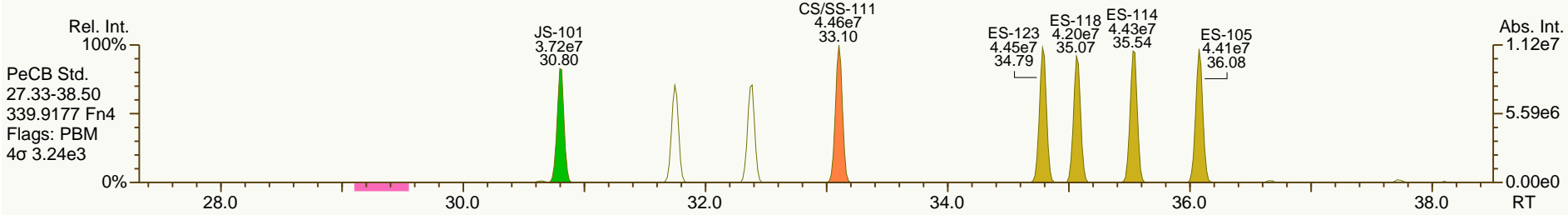
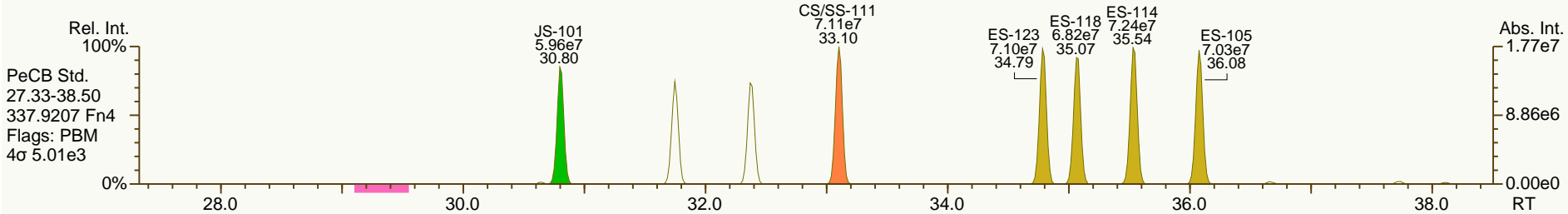
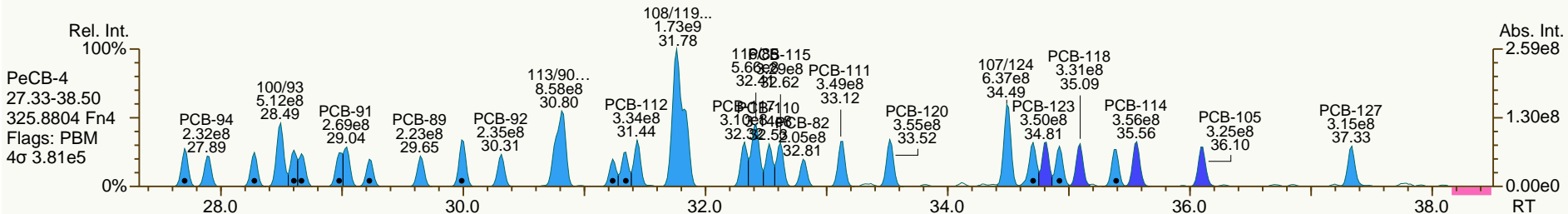
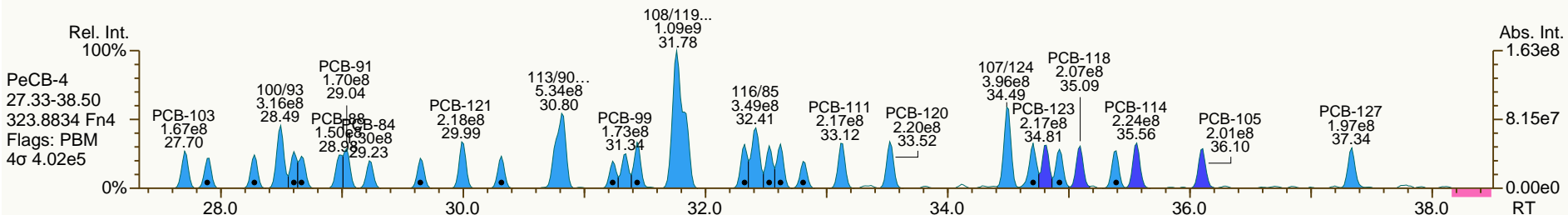




SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

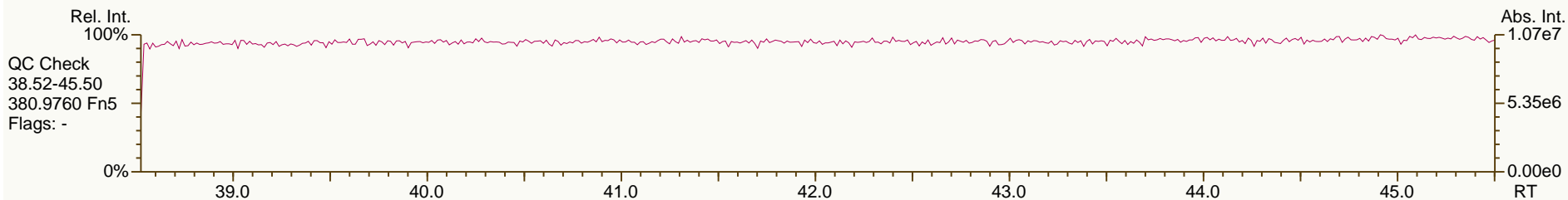
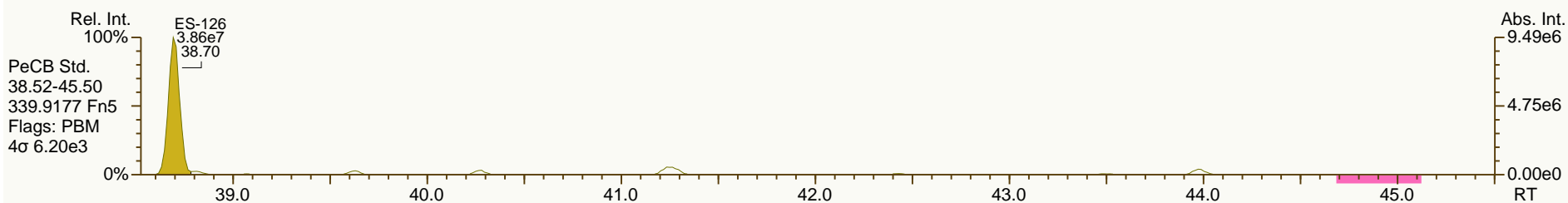
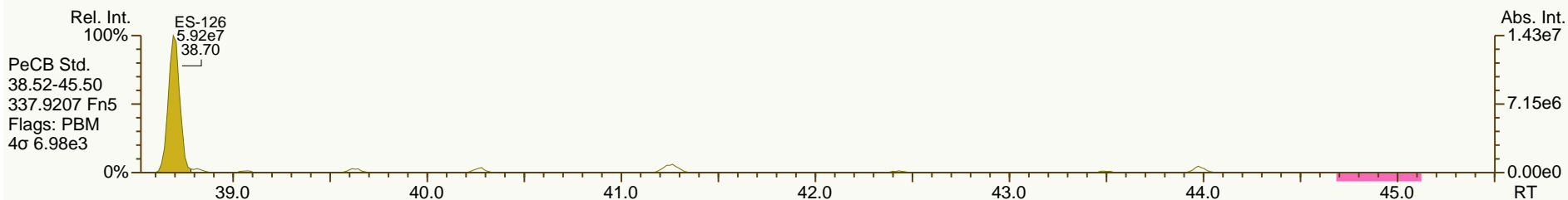
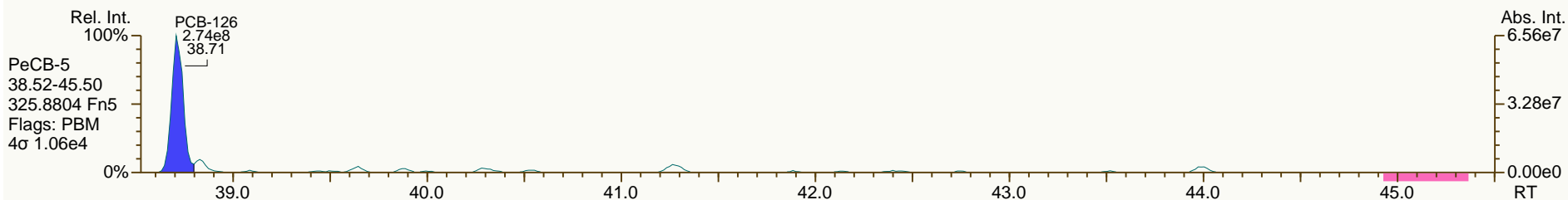
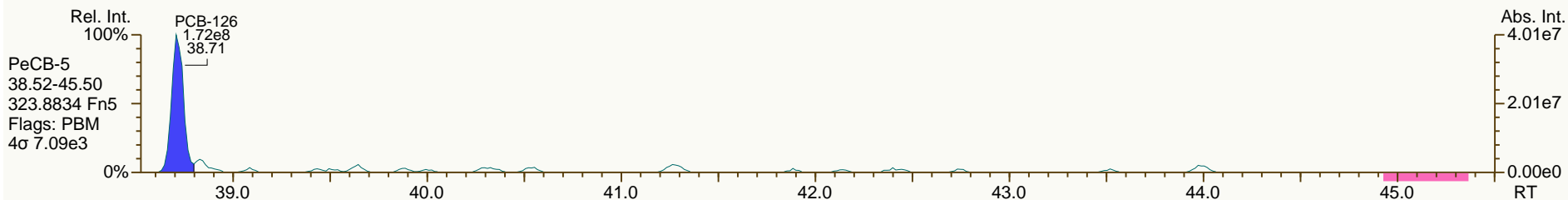
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

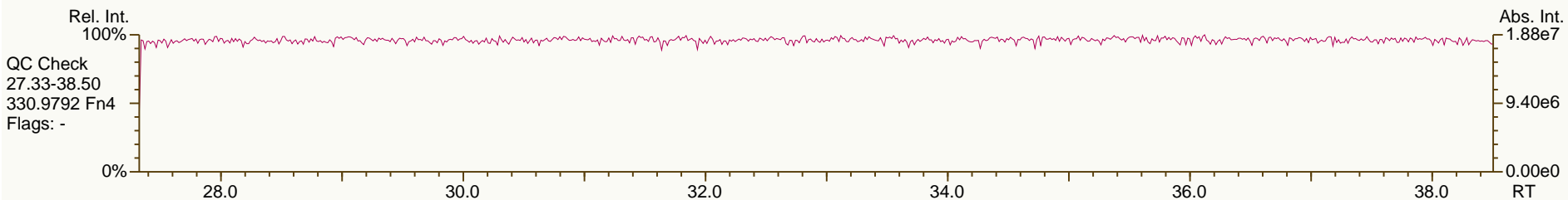
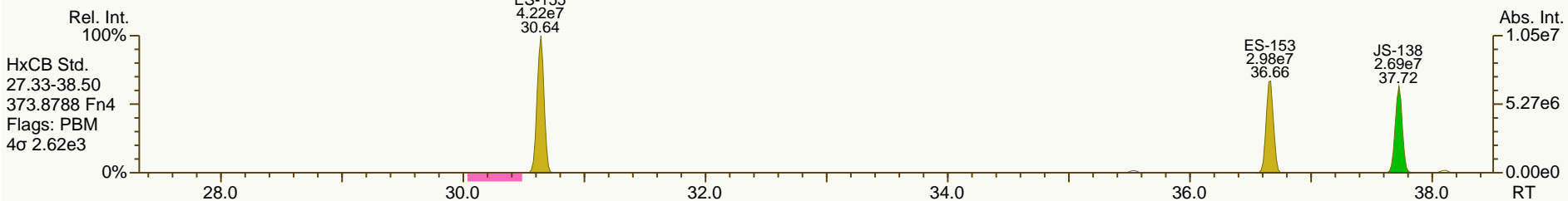
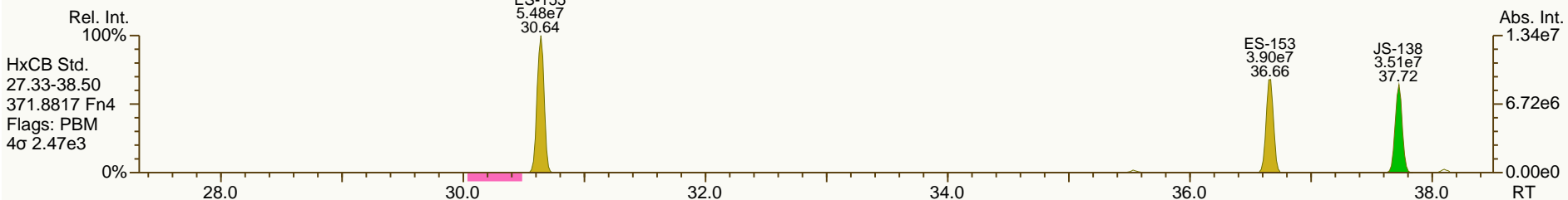
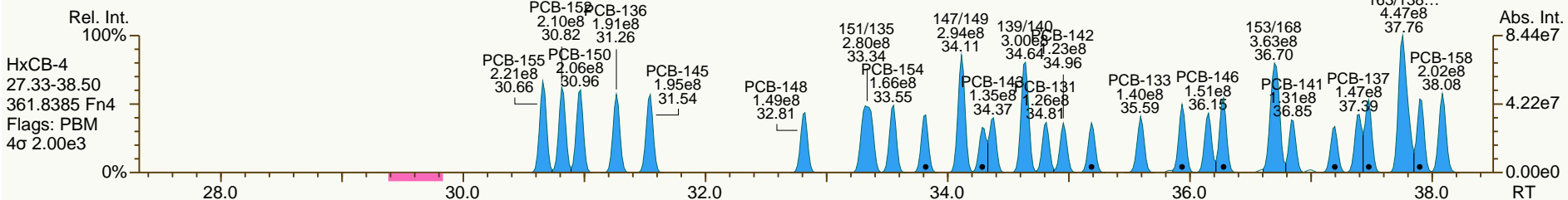
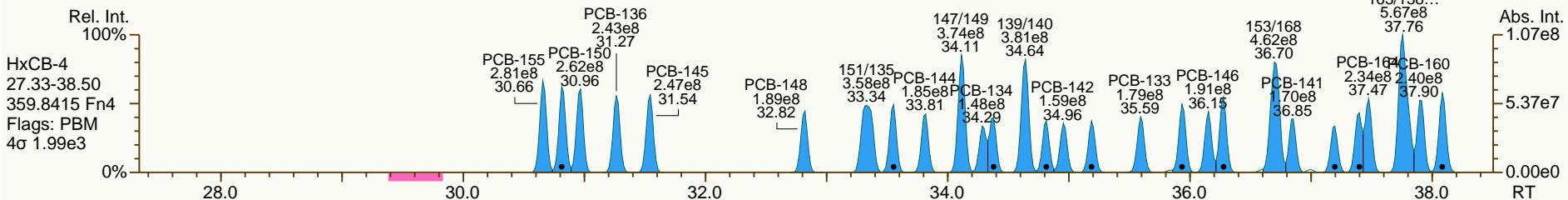
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

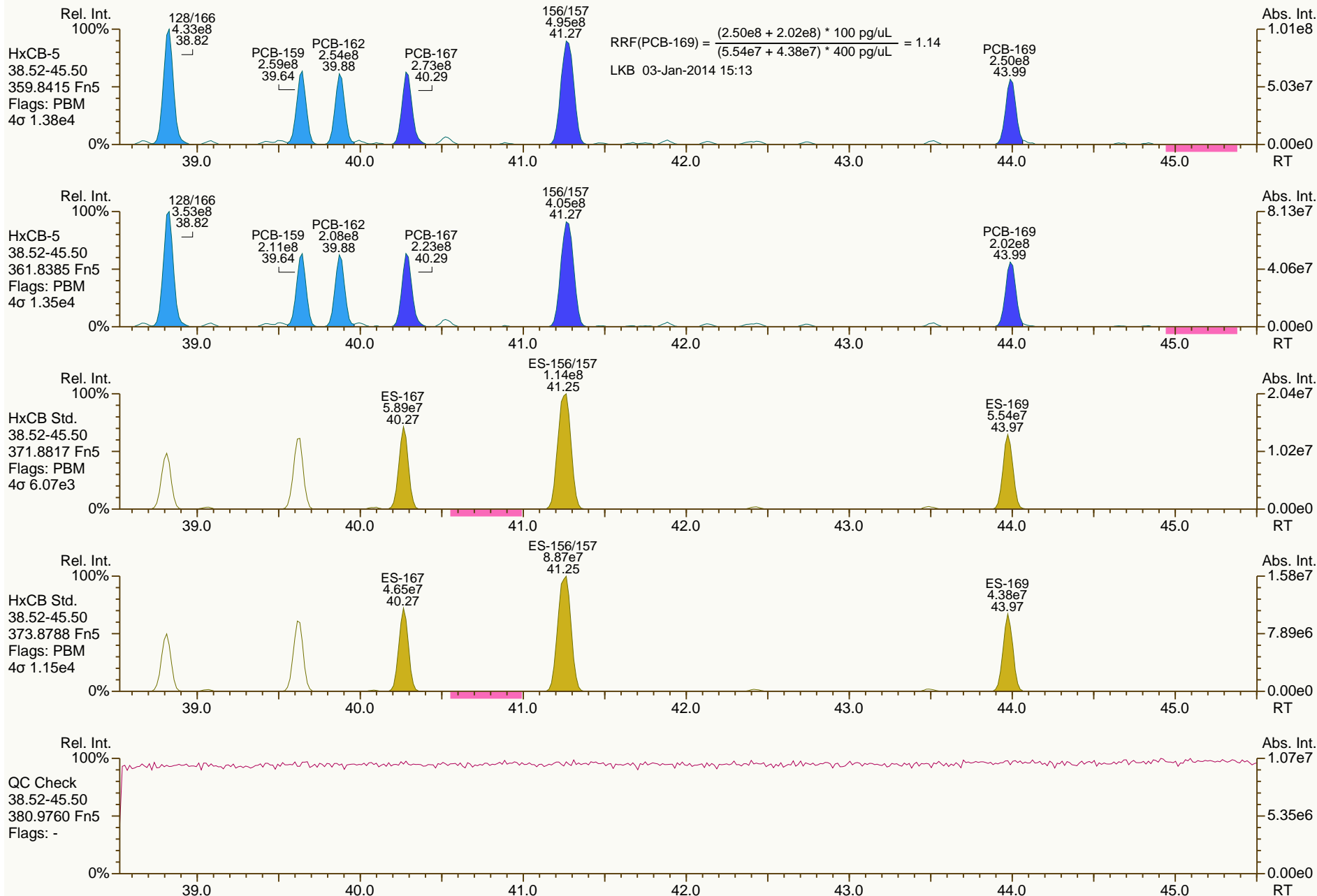
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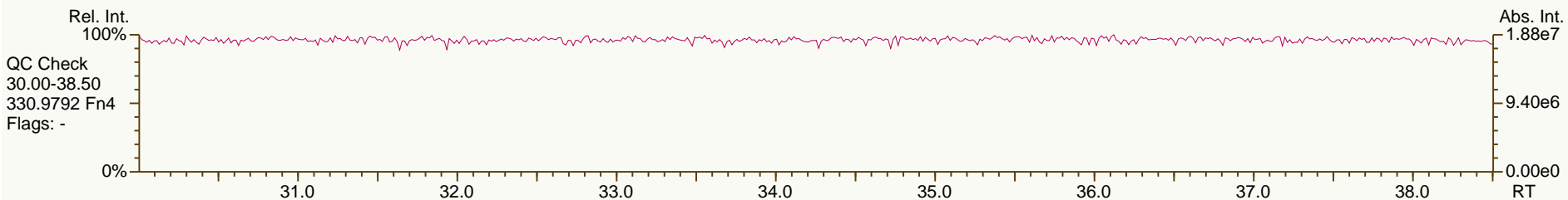
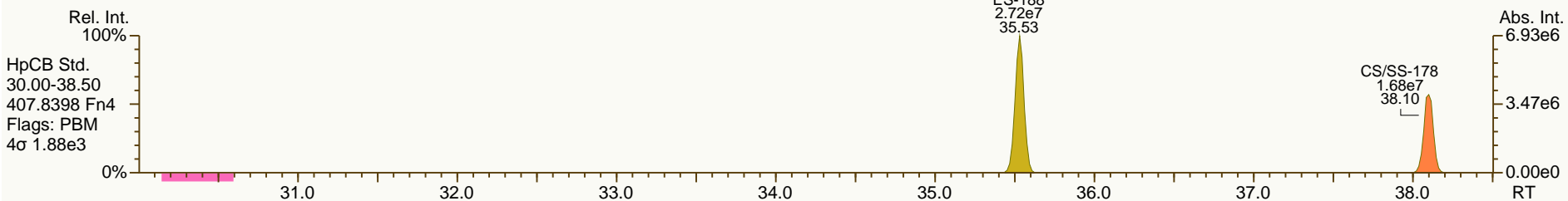
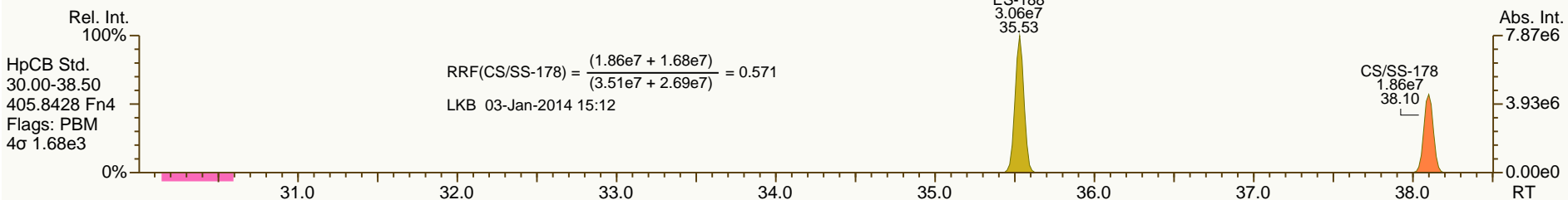
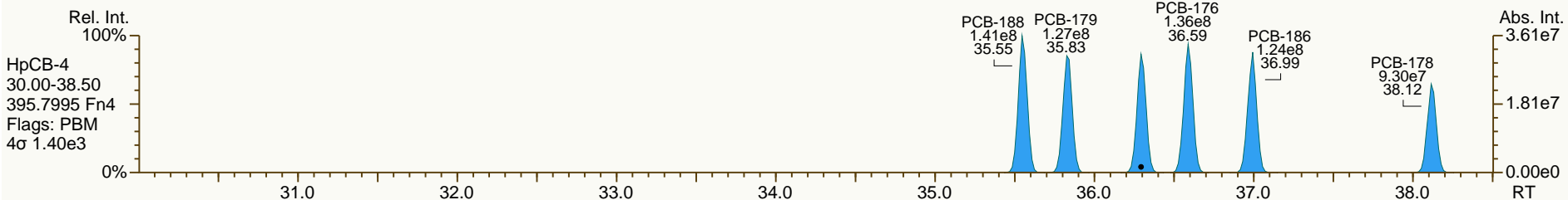
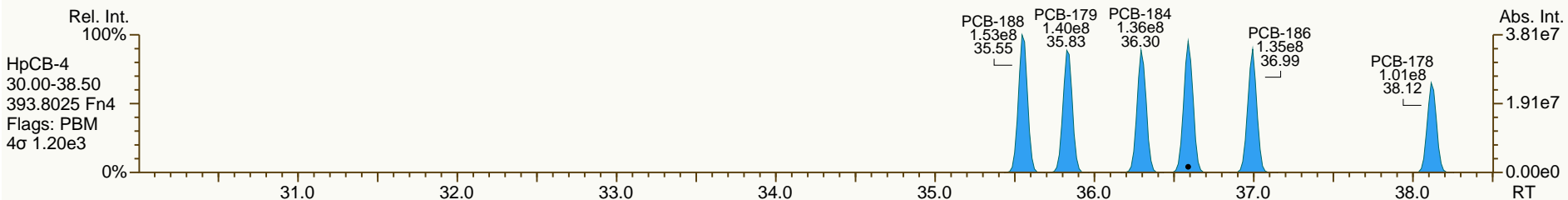
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 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

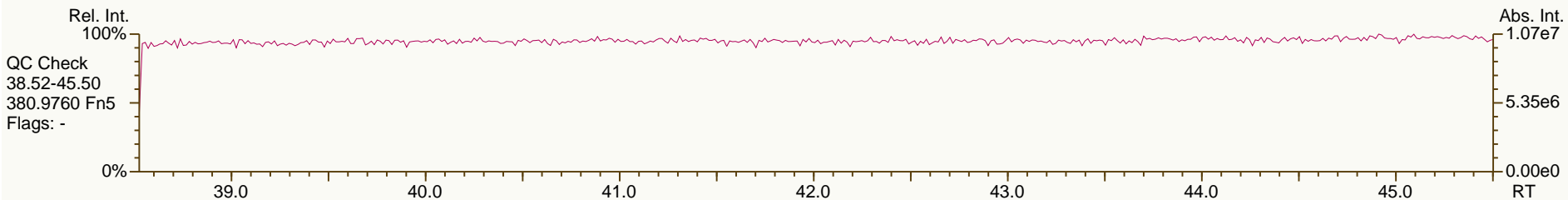
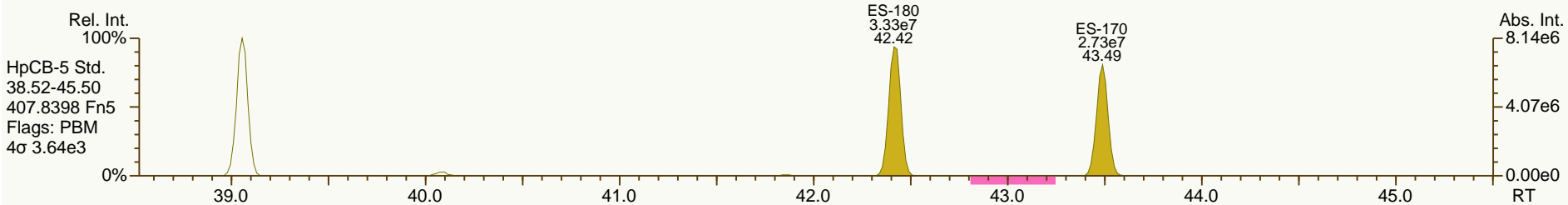
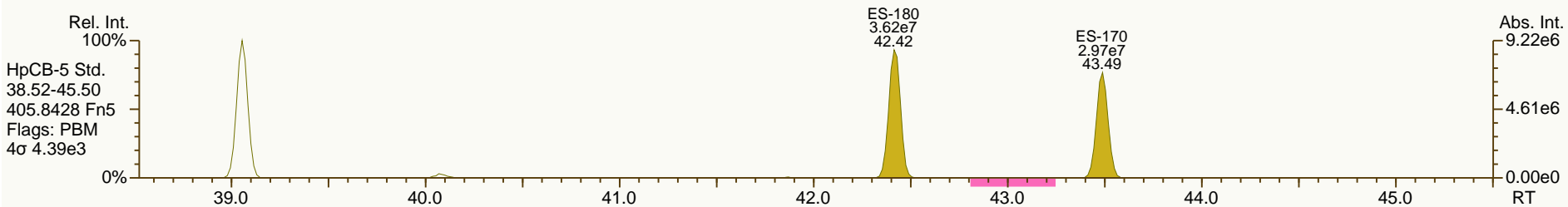
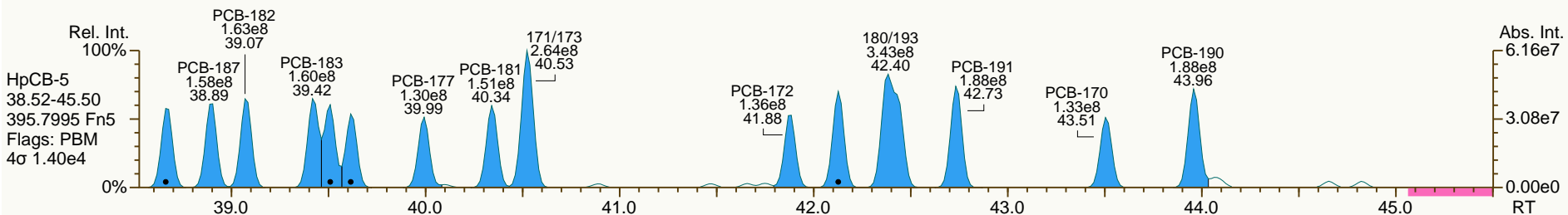
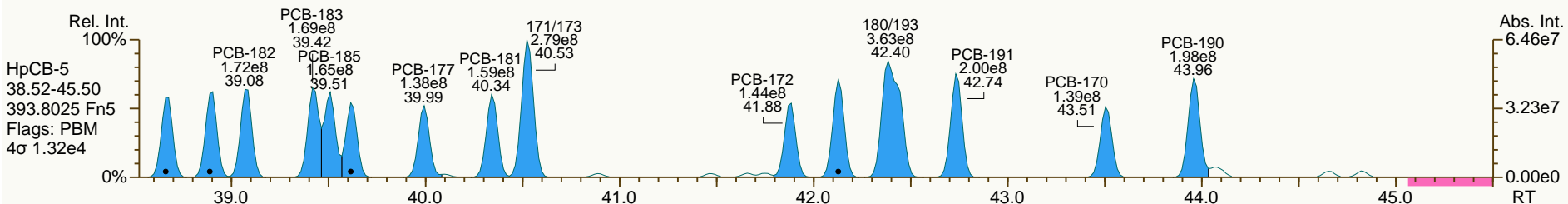
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

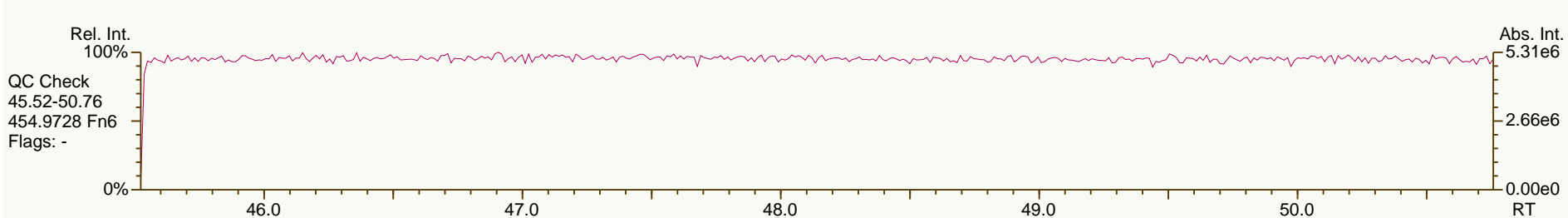
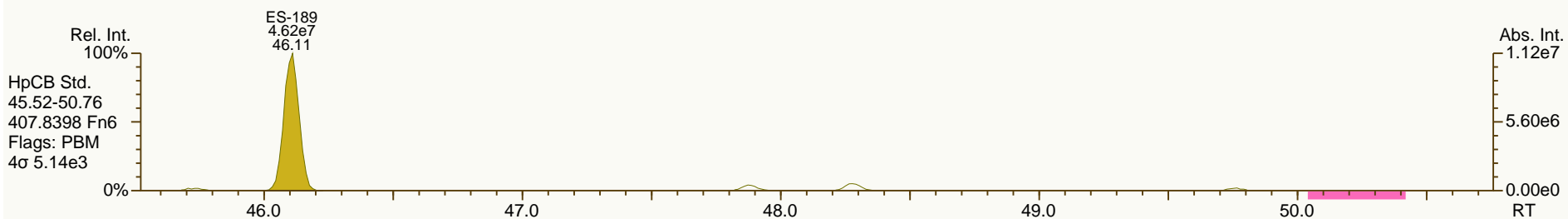
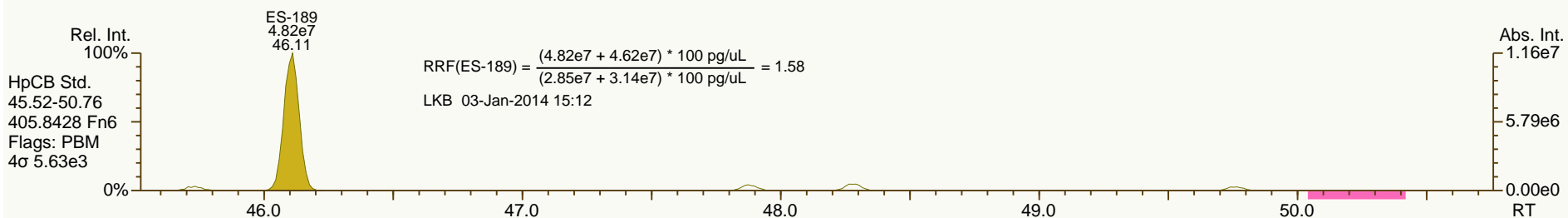
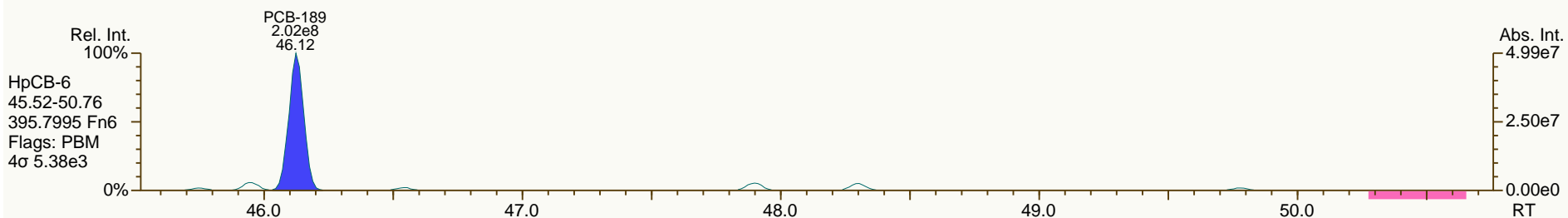
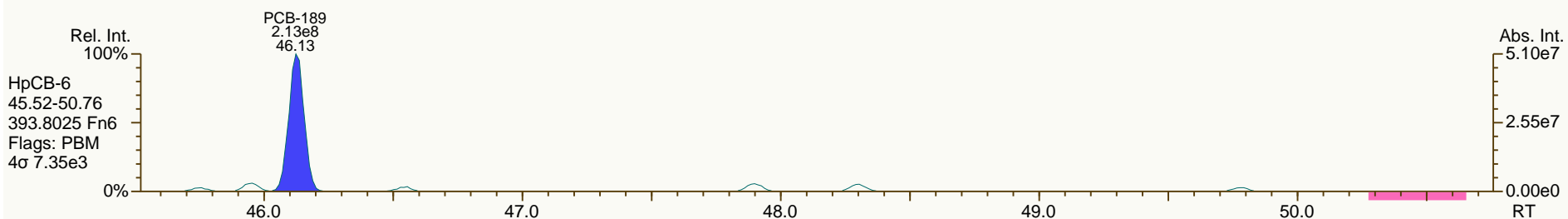
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 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06

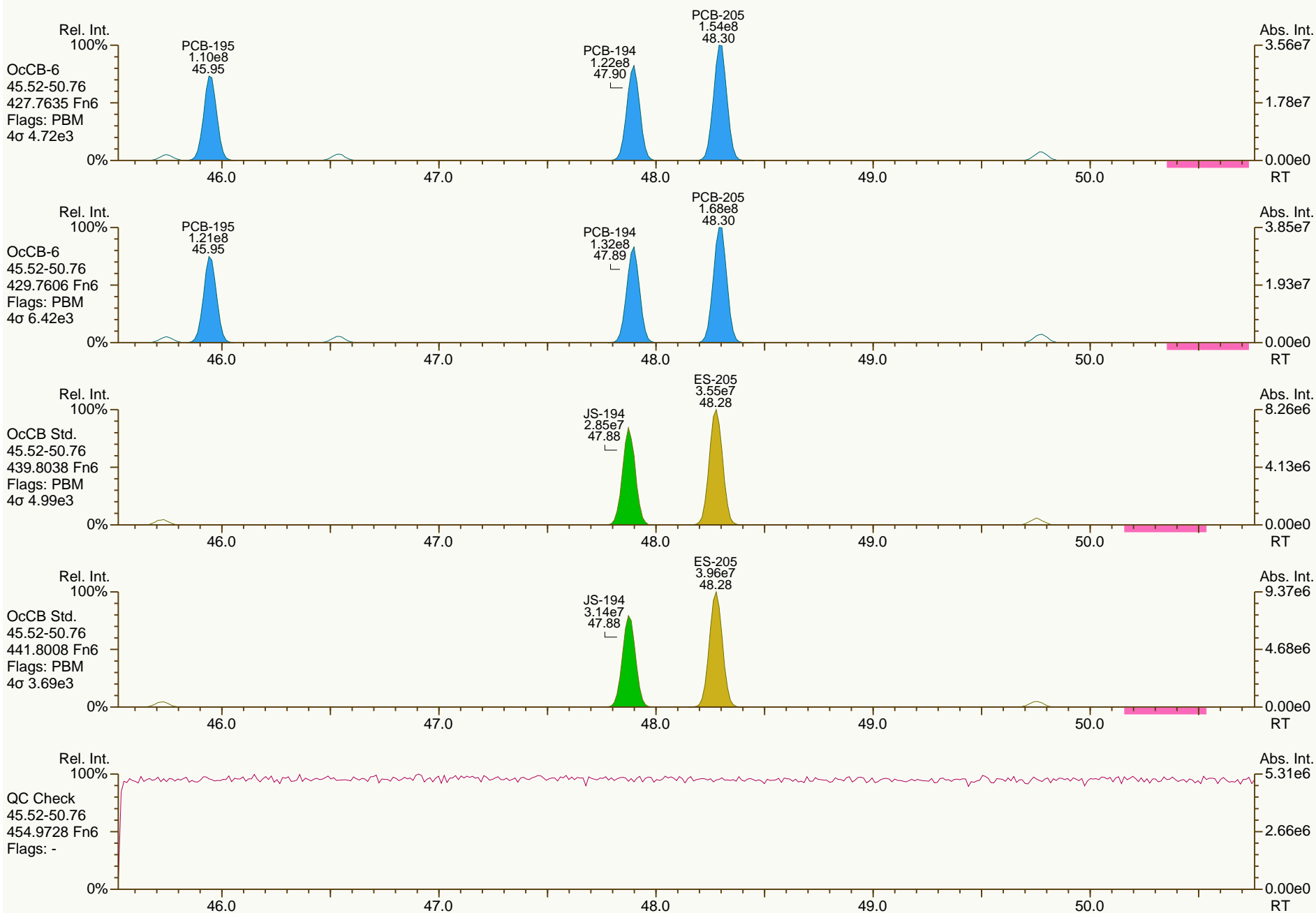




SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

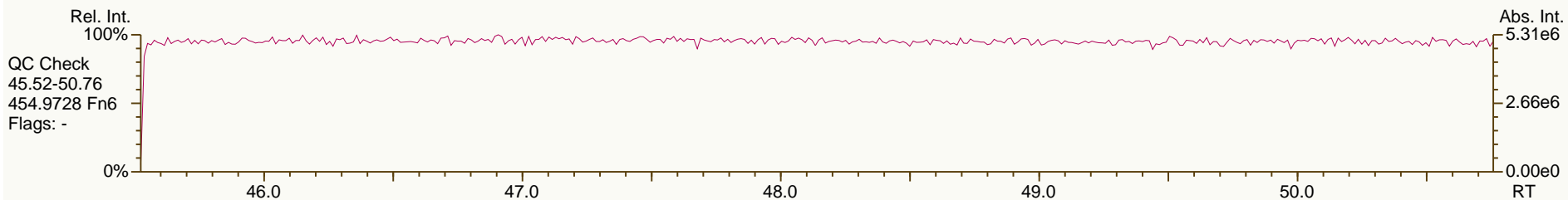
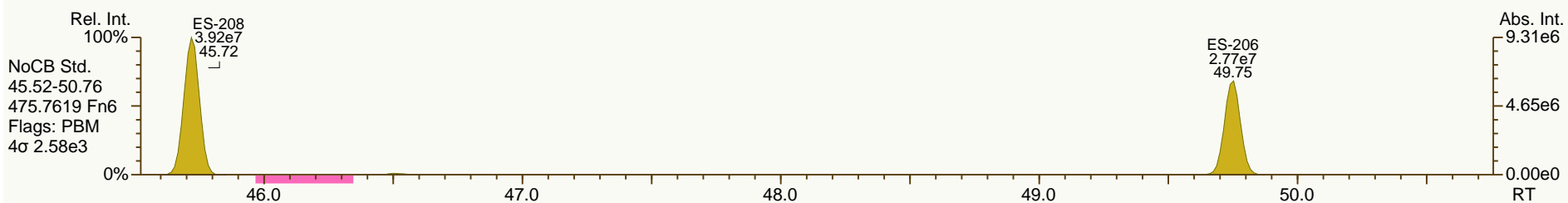
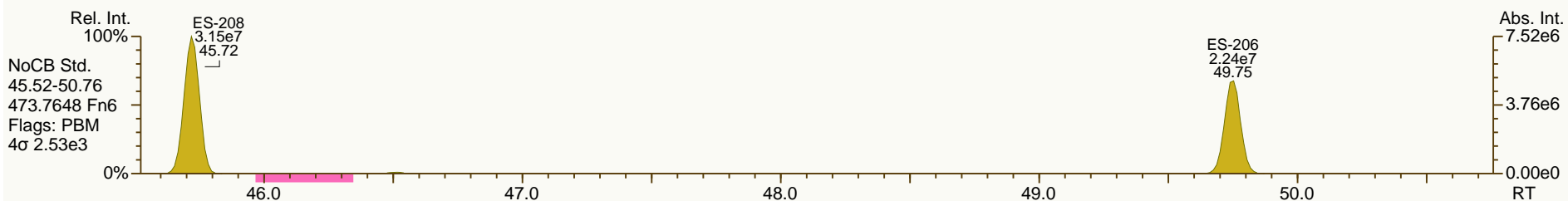
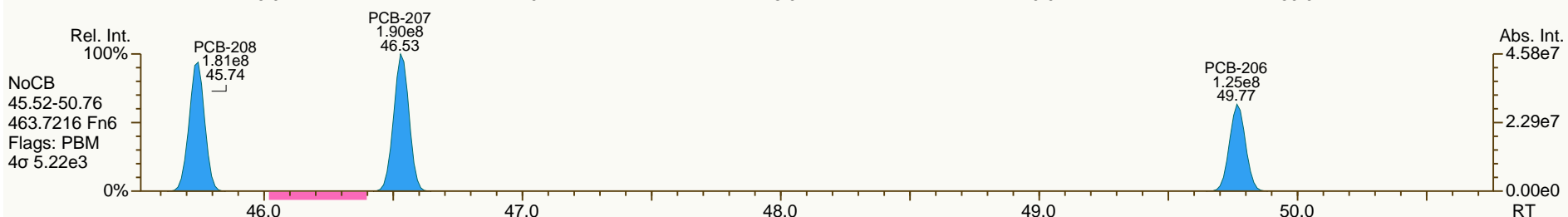
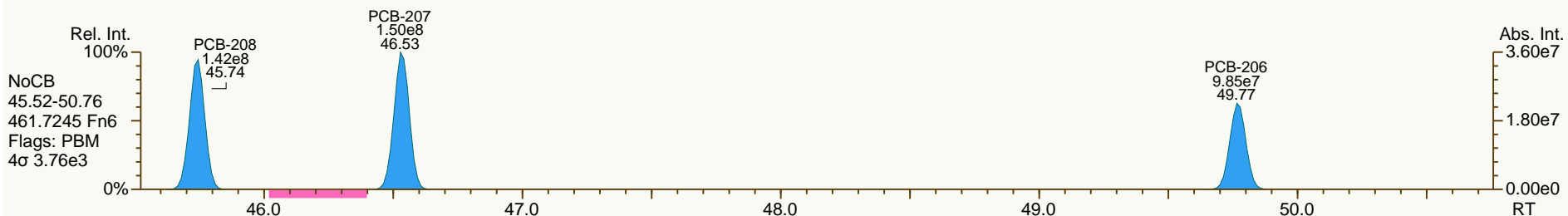
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User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

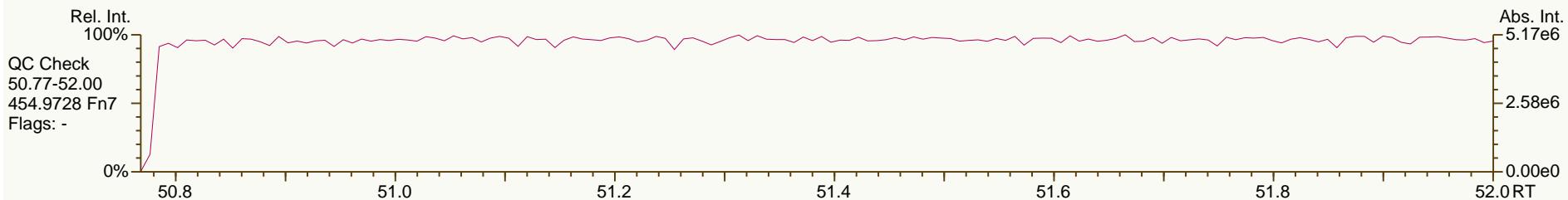
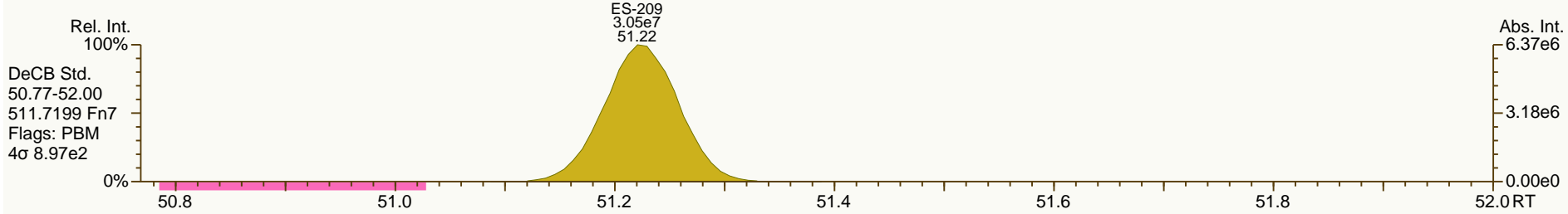
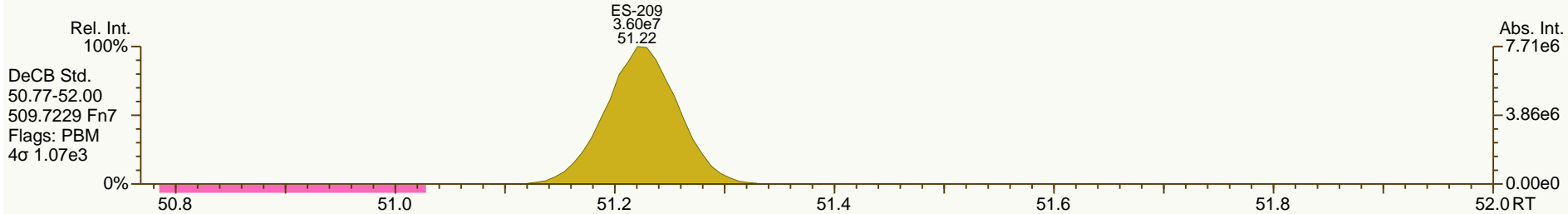
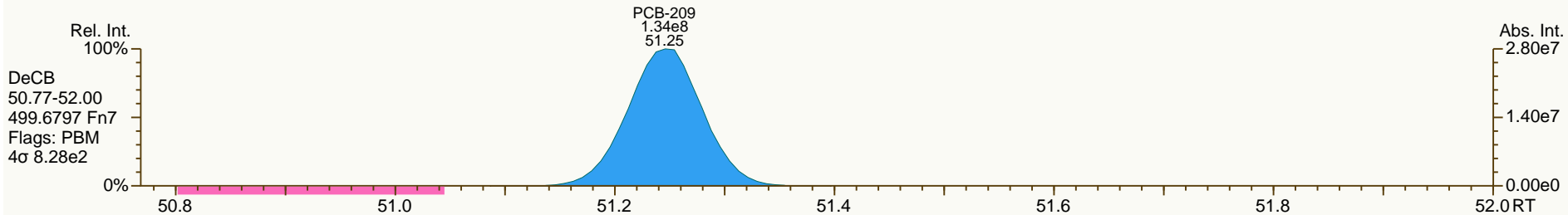
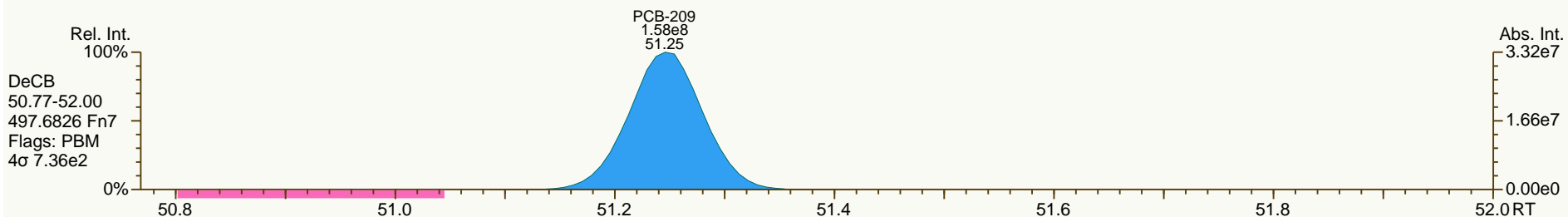
Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	3.92E+09	0.79 Y	1.15	1.22	6.1%	
PCB-81 344'5'-TeCB	32.63	3.81E+09	0.78 Y	1.12	1.17	4.4%	
PCB-105 233'44'-PeCB	36.10	3.11E+09	0.62 Y	1.11	1.18	5.9%	
PCB-114 2344'5'-PeCB	35.56	3.45E+09	0.63 Y	1.20	1.29	6.9%	
PCB-118 23'44'5'-PeCB	35.09	3.20E+09	0.63 Y	1.19	1.25	4.7%	
PCB-123 23'44'5'-PeCB	34.82	3.32E+09	0.62 Y	1.21	1.25	3.0%	
PCB-126 33'44'5'-PeCB	38.72	2.76E+09	0.63 Y	1.11	1.21	9.8%	
PCB-156/157 ...-HxCB	41.27	5.55E+09	1.23 Y	1.10	1.17	6.3%	
PCB-167 23'44'55'-HxCB	40.29	3.01E+09	1.22 Y	1.16	1.23	5.8%	
PCB-169 33'44'55'-HxCB	43.99	2.75E+09	1.24 Y	1.12	1.17	4.3%	
PCB-189 233'44'55'-HpCB	46.12	2.52E+09	1.05 Y	1.07	1.16	7.9%	
PCB-209 DeCB	51.24	1.71E+09	1.18 Y	1.11	1.15	3.3%	
ES PCB-1	12.03	2.62E+08	3.21 Y	1.19	1.13	-5.6%	
ES PCB-3	14.35	2.47E+08	3.30 Y	1.09	1.06	-2.3%	
ES PCB-4	14.61	1.23E+08	1.63 Y	0.52	0.53	0.9%	
ES PCB-15	20.38	2.45E+08	1.53 Y	1.04	1.05	1.3%	
ES PCB-19	17.73	1.20E+08	1.07 Y	0.51	0.52	2.2%	
ES PCB-37	26.74	1.94E+08	1.09 Y	1.66	1.69	1.6%	
ES PCB-54	20.67	9.79E+07	0.83 Y	0.86	0.85	-0.9%	
ES PCB-77	33.09	1.61E+08	0.79 Y	1.38	1.40	1.2%	
ES PCB-81	32.61	1.63E+08	0.79 Y	1.37	1.42	4.0%	
ES PCB-104	25.67	8.86E+07	1.66 Y	0.80	0.78	-2.5%	
ES PCB-105	36.08	1.32E+08	1.58 Y	1.20	1.17	-2.9%	
ES PCB-114	35.54	1.34E+08	1.60 Y	1.22	1.19	-2.5%	
ES PCB-118	35.07	1.28E+08	1.60 Y	1.16	1.14	-1.9%	
ES PCB-123	34.79	1.33E+08	1.59 Y	1.19	1.18	-0.8%	
ES PCB-126	38.70	1.14E+08	1.54 Y	1.03	1.01	-2.2%	
ES PCB-153	36.66	8.16E+07	1.32 Y	1.11	1.10	-1.2%	
ES PCB-155	30.64	1.13E+08	1.29 Y	1.59	1.52	-4.1%	
ES PCB-156/157	41.25	2.38E+08	1.27 Y	1.60	1.61	0.4%	
ES PCB-167	40.27	1.22E+08	1.26 Y	1.67	1.65	-1.0%	
ES PCB-169	43.97	1.17E+08	1.27 Y	1.56	1.58	1.8%	
ES PCB-170	43.49	6.70E+07	1.09 Y	0.95	0.97	2.9%	
ES PCB-180	42.42	8.32E+07	1.09 Y	1.14	1.21	6.3%	
ES PCB-188	35.53	6.88E+07	1.10 Y	0.94	0.93	-1.1%	
ES PCB-189	46.11	1.09E+08	1.01 Y	1.58	1.58	-0.3%	
ES PCB-202	40.08	7.17E+07	0.94 Y	0.97	0.97	-0.2%	
ES PCB-205	48.27	8.57E+07	0.89 Y	1.24	1.25	0.1%	
ES PCB-206	49.75	5.62E+07	0.81 Y	0.83	0.82	-1.6%	
ES PCB-208	45.72	8.18E+07	0.80 Y	1.17	1.19	1.2%	
ES PCB-209	51.22	7.42E+07	1.20 Y	1.11	1.08	-2.8%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	2.10E+08	1.08 Y	1.11	1.09	-2.3%	
SS PCB-111	33.10	1.37E+08	1.60 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	4.42E+07	1.12 Y	0.62	0.64	3.8%	
CS PCB-28	23.16	2.10E+08	1.08 Y	1.85	1.83	-0.7%	
CS PCB-111	33.10	1.37E+08	1.60 Y	1.22	1.21	-0.7%	
CS PCB-178	38.10	4.42E+07	1.12 Y	0.58	0.60	2.7%	
JS PCB-9	16.61	2.33E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.15E+08	0.81 Y	-	-	-	
JS PCB-101	30.81	1.13E+08	1.60 Y	-	-	-	
JS PCB-138	37.73	7.41E+07	1.32 Y	-	-	-	
JS PCB-194	47.87	6.88E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-2 3-MoCB	14.18	5.06E+09	2.92 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-10 26'-DiCB	14.81	5.06E+09	1.58 Y	1.98	2.06	4.1%	
PCB-9 25'-DiCB	16.63	4.77E+09	1.62 Y	0.95	0.97	2.9%	
PCB-7 24'-DiCB	16.80	5.47E+09	1.65 Y	1.05	1.11	6.5%	
PCB-6 23'-DiCB	17.02	5.14E+09	1.63 Y	1.00	1.05	5.3%	
PCB-5 23'-DiCB	17.33	5.14E+09	1.64 Y	1.00	1.05	4.7%	
PCB-8 24'-DiCB	17.45	5.25E+09	1.64 Y	1.03	1.07	3.7%	
PCB-14 35'-DiCB	19.02	6.12E+09	1.60 Y	1.18	1.25	5.8%	
PCB-11 33'-DiCB	19.81	5.26E+09	1.63 Y	1.01	1.07	6.2%	
PCB-13/12 34'/34'-DiCB	20.10	1.05E+10	1.63 Y	0.99	1.07	8.0%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-30/18 246/22'5'-TrCB	19.52	7.69E+09	1.04 Y	1.54	1.60	4.0%	
PCB-17 22'4'-TrCB	19.93	3.33E+09	1.05 Y	1.31	1.38	6.0%	
PCB-27 23'6'-TrCB	20.12	4.61E+09	1.05 Y	1.82	1.92	5.5%	
PCB-24 236'-TrCB	20.26	4.39E+09	1.04 Y	1.72	1.83	5.9%	
PCB-16 22'3'-TrCB	20.35	2.55E+09	1.05 Y	1.01	1.06	5.3%	
PCB-32 24'6'-TrCB	20.84	4.79E+09	1.05 Y	1.92	1.99	3.8%	
PCB-34 23'5'-TrCB	21.99	4.49E+09	1.00 Y	1.14	1.16	2.3%	
PCB-23 235'-TrCB	22.14	4.54E+09	0.98 Y	1.16	1.17	1.5%	
PCB-26/29 23'5'/245'-TrCB	22.43	9.34E+09	0.99 Y	1.17	1.21	3.0%	
PCB-25 23'4'-TrCB	22.63	4.59E+09	0.99 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.91	4.84E+09	0.99 Y	1.23	1.25	2.1%	
PCB-28/20 244'/233'-TrCB	23.20	9.02E+09	0.98 Y	1.13	1.17	2.9%	
PCB-21/33 234'/23'4'-TrCB	23.38	9.35E+09	0.97 Y	1.17	1.21	2.9%	
PCB-22 234'-TrCB	23.75	4.32E+09	0.98 Y	1.08	1.12	3.4%	
PCB-36 33'5'-TrCB	25.14	4.81E+09	0.99 Y	1.17	1.24	6.2%	
PCB-39 34'5'-TrCB	25.46	4.93E+09	0.98 Y	1.21	1.27	5.1%	
PCB-38 345'-TrCB	26.00	4.32E+09	1.00 Y	1.10	1.11	0.9%	
PCB-35 33'4'-TrCB	26.39	4.24E+09	0.99 Y	1.04	1.10	5.3%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	5.80E+09	0.79 Y	0.88	0.89	1.5%	
PCB-45 22'36'-TeCB	23.28	2.69E+09	0.79 Y	0.77	0.83	7.6%	
PCB-51 22'46'-TeCB	23.35	2.73E+09	0.80 Y	0.86	0.84	-2.6%	
PCB-46 22'36'-TeCB	23.56	2.31E+09	0.79 Y	0.70	0.71	1.2%	
PCB-52 22'55'-TeCB	24.82	2.76E+09	0.79 Y	0.84	0.85	0.5%	
PCB-73 23'5'6'-TeCB	24.95	3.82E+09	0.79 Y	1.11	1.17	5.5%	
PCB-43 22'35'-TeCB	25.05	2.28E+09	0.79 Y	0.71	0.70	-1.5%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	6.91E+09	0.79 Y	1.02	1.06	3.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7				
Acquired:	20-DEC-2013 20:49					
Datafile:	131220X08					
Name	RT	Response	RA	ICAL	RRF	Dev'n
PCB-48 22'45'-TeCB	25.52	2.83E+09	0.79 Y	0.84	0.87	3.4%
PCB-44/47/65 ...-TeCB	25.74	9.10E+09	0.79 Y	0.90	0.93	3.0%
PCB-59/62/75 ...-TeCB	26.02	1.15E+10	0.81 Y	1.17	1.18	1.4%
PCB-42 22'34'-TeCB	26.18	2.53E+09	0.79 Y	0.76	0.78	1.9%
PCB-41 22'34'-TeCB	26.52	2.38E+09	0.78 Y	0.69	0.73	5.0%
PCB-71/40 23'4'6/22'33'-TeCB	26.61	5.79E+09	0.79 Y	0.86	0.89	3.5%
PCB-64 234'6'-TeCB	26.81	4.17E+09	0.79 Y	1.22	1.28	4.8%
PCB-72 23'55'-TeCB	27.53	4.01E+09	0.79 Y	1.21	1.23	1.8%
PCB-68 23'45'-TeCB	27.79	4.24E+09	0.78 Y	1.28	1.30	1.9%
PCB-57 233'5'-TeCB	28.16	3.81E+09	0.79 Y	1.16	1.17	0.4%
PCB-58 233'5'-TeCB	28.37	4.00E+09	0.79 Y	1.18	1.23	4.1%
PCB-67 23'45'-TeCB	28.53	4.17E+09	0.79 Y	1.26	1.28	1.6%
PCB-63 234'5'-TeCB	28.75	4.37E+09	0.79 Y	1.30	1.34	3.2%
PCB-61/70/74/76 ...-TeCB	29.05	1.58E+10	0.79 Y	1.20	1.21	1.4%
PCB-66 23'44'-TeCB	29.33	3.68E+09	0.78 Y	1.10	1.13	2.4%
PCB-55 233'4'-TeCB	29.47	3.76E+09	0.79 Y	1.12	1.15	3.0%
PCB-56 233'4'-TeCB	29.91	3.68E+09	0.79 Y	1.11	1.13	1.6%
PCB-60 2344'-TeCB	30.10	3.79E+09	0.78 Y	1.14	1.16	2.6%
PCB-80 33'55'-TeCB	30.43	4.36E+09	0.79 Y	1.31	1.34	1.9%
PCB-79 33'45'-TeCB	31.76	4.29E+09	0.79 Y	1.31	1.32	0.8%
PCB-78 33'45'-TeCB	32.25	3.62E+09	0.79 Y	1.06	1.11	4.6%
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%
PCB-96 22'366'-PeCB	26.01	2.25E+09	0.65 Y	1.23	1.27	3.5%
PCB-103 22'45'6'-PeCB	27.71	2.54E+09	0.62 Y	0.93	0.95	2.6%
PCB-94 22'356'-PeCB	27.90	2.18E+09	0.63 Y	0.80	0.82	2.5%
PCB-95 22'35'6'-PeCB	28.28	2.36E+09	0.62 Y	0.87	0.89	2.4%
PCB-100/93 22'44'6/22'356'-PeCB	28.50	4.75E+09	0.62 Y	0.86	0.89	3.4%
PCB-102 22'456'-PeCB	28.61	2.73E+09	0.62 Y	0.97	1.02	5.8%
PCB-98 22'34'6'-PeCB	28.68	2.05E+09	0.64 Y	0.76	0.77	1.6%
PCB-88 22'346'-PeCB	28.98	2.08E+09	0.61 Y	0.80	0.78	-2.2%
PCB-91 22'34'6'-PeCB	29.04	2.73E+09	0.63 Y	0.94	1.03	8.9%
PCB-84 22'33'6'-PeCB	29.24	1.98E+09	0.62 Y	0.72	0.74	3.7%
PCB-89 22'346'-PeCB	29.65	2.09E+09	0.62 Y	0.76	0.79	3.0%
PCB-121 23'45'6'-PeCB	30.00	3.31E+09	0.62 Y	1.20	1.24	3.7%
PCB-92 22'355'-PeCB	30.32	2.25E+09	0.62 Y	0.82	0.84	2.9%
PCB-113/90/101 ...-PeCB	30.80	8.09E+09	0.62 Y	0.99	1.01	2.8%
PCB-83 22'33'5'-PeCB	31.24	1.82E+09	0.62 Y	0.71	0.69	-4.1%
PCB-99 22'44'5'-PeCB	31.34	2.67E+09	0.62 Y	0.92	1.00	8.8%
PCB-112 233'56'-PeCB	31.44	3.15E+09	0.63 Y	1.17	1.18	1.3%
PCB-108/119/86/97/125...-PeCB	31.79	1.55E+10	0.68 Y	0.98	0.97	-0.7%
PCB-117 234'56'-PeCB	32.33	3.32E+09	0.62 Y	1.14	1.25	9.6%
PCB-116/85 23456/22'344'-PeCB	32.42	5.04E+09	0.63 Y	0.94	0.95	0.6%
PCB-110 233'4'6'-PeCB	32.53	3.01E+09	0.62 Y	1.12	1.13	1.1%

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	32.62	3.31E+09	0.63 Y	1.16	1.24	7.2%	
PCB-82 22'33'4'-PeCB	32.81	1.94E+09	0.62 Y	0.70	0.73	4.5%	
PCB-111 233'55'-PeCB	33.13	3.35E+09	0.63 Y	1.22	1.26	3.1%	
PCB-120 23'455'-PeCB	33.53	3.41E+09	0.62 Y	1.21	1.28	5.7%	
PCB-107/124 ...-PeCB	34.50	6.21E+09	0.63 Y	1.10	1.17	6.2%	
PCB-109 233'46'-PeCB	34.71	3.61E+09	0.62 Y	1.25	1.36	8.2%	
PCB-106 233'45'-PeCB	34.93	3.03E+09	0.62 Y	1.11	1.14	3.1%	
PCB-122 233'4'5'-PeCB	35.39	2.83E+09	0.63 Y	0.99	1.06	6.1%	
PCB-127 33'455'-PeCB	37.34	3.14E+09	0.62 Y	1.10	1.19	8.8%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-152 22'3566'-HxCB	30.82	2.78E+09	1.26 Y	1.17	1.23	5.0%	
PCB-150 22'34'66'-HxCB	30.97	2.75E+09	1.26 Y	1.18	1.22	3.6%	
PCB-136 22'33'66'-HxCB	31.27	2.61E+09	1.27 Y	1.07	1.16	8.4%	
PCB-145 22'3466'-HxCB	31.54	2.61E+09	1.28 Y	1.11	1.16	3.7%	
PCB-148 22'34'56'-HxCB	32.82	2.03E+09	1.30 Y	1.18	1.25	5.4%	
PCB-151/135 ...-HxCB	33.34	3.85E+09	1.28 Y	1.14	1.18	3.6%	
PCB-154 22'44'56'-HxCB	33.55	2.26E+09	1.26 Y	1.34	1.38	3.2%	
PCB-144 22'345'6'-HxCB	33.81	1.97E+09	1.28 Y	1.18	1.20	1.8%	
PCB-147/149 ...-HxCB	34.12	4.02E+09	1.26 Y	1.18	1.23	4.9%	
PCB-134 22'33'56'-HxCB	34.29	1.54E+09	1.26 Y	0.92	0.94	2.0%	
PCB-143 22'3456'-HxCB	34.37	1.89E+09	1.28 Y	1.13	1.16	2.7%	
PCB-139/140 ...-HxCB	34.64	4.13E+09	1.28 Y	1.21	1.27	5.1%	
PCB-131 22'33'46'-HxCB	34.81	1.73E+09	1.28 Y	1.03	1.06	3.7%	
PCB-142 22'3456'-HxCB	34.96	1.72E+09	1.26 Y	0.99	1.06	6.7%	
PCB-132 22'33'46'-HxCB	35.19	1.74E+09	1.27 Y	1.03	1.06	3.2%	
PCB-133 22'33'55'-HxCB	35.60	1.91E+09	1.26 Y	1.13	1.17	3.7%	
PCB-165 233'55'6'-HxCB	35.94	2.36E+09	1.27 Y	1.41	1.44	2.5%	
PCB-146 22'34'55'-HxCB	36.15	2.06E+09	1.27 Y	1.20	1.26	5.0%	
PCB-161 233'45'6'-HxCB	36.27	2.61E+09	1.27 Y	1.52	1.60	5.3%	
PCB-153/168 ...-HxCB	36.70	4.99E+09	1.28 Y	1.46	1.53	5.0%	
PCB-141 22'3455'-HxCB	36.85	1.83E+09	1.27 Y	1.09	1.12	2.9%	
PCB-130 22'33'45'-HxCB	37.19	1.63E+09	1.26 Y	0.97	1.00	3.0%	
PCB-137 22'344'5'-HxCB	37.39	2.02E+09	1.27 Y	1.16	1.24	6.3%	
PCB-164 233'4'5'6'-HxCB	37.47	2.53E+09	1.29 Y	1.50	1.55	3.5%	
PCB-163/138/129 ...-HxCB	37.77	6.19E+09	1.26 Y	1.19	1.27	6.4%	
PCB-160 233'456'-HxCB	37.90	2.49E+09	1.29 Y	1.52	1.52	0.6%	
PCB-158 233'44'6'-HxCB	38.09	2.80E+09	1.28 Y	1.66	1.72	3.4%	
PCB-128/166 ...-HxCB	38.82	4.79E+09	1.22 Y	0.90	0.98	8.8%	
PCB-159 233'455'-HxCB	39.64	2.87E+09	1.23 Y	1.11	1.17	5.3%	
PCB-162 233'4'55'-HxCB	39.88	2.82E+09	1.22 Y	1.07	1.15	7.5%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-179 22'33'566'-HpCB	35.83	1.59E+09	1.11 Y	1.16	1.15	-0.7%	
PCB-184 22'344'66'-HpCB	36.30	1.62E+09	1.09 Y	1.13	1.17	4.2%	

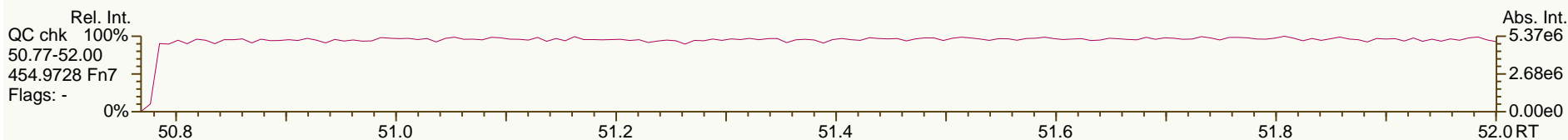
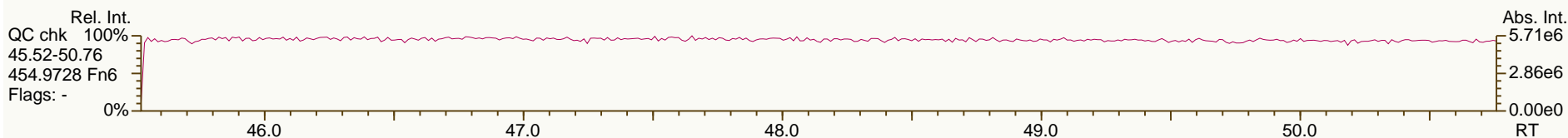
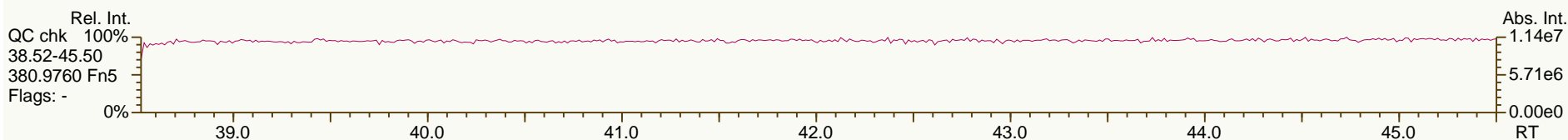
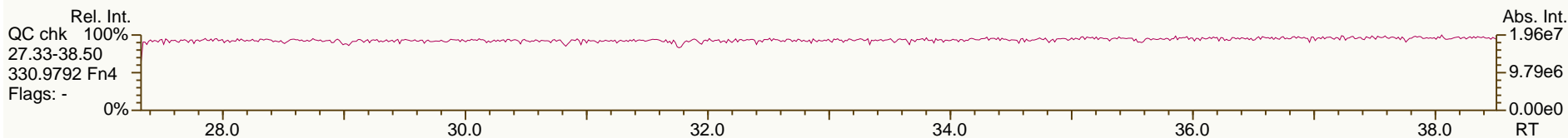
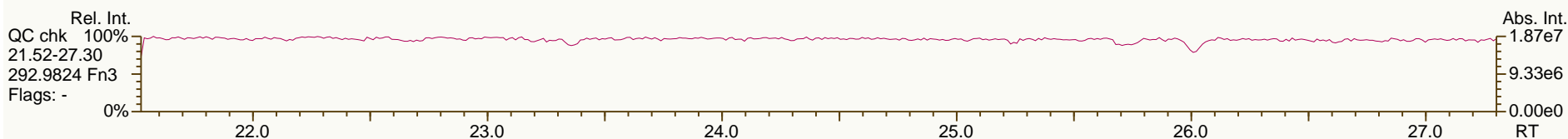
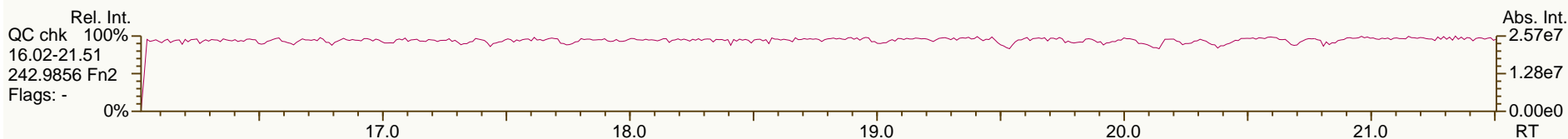
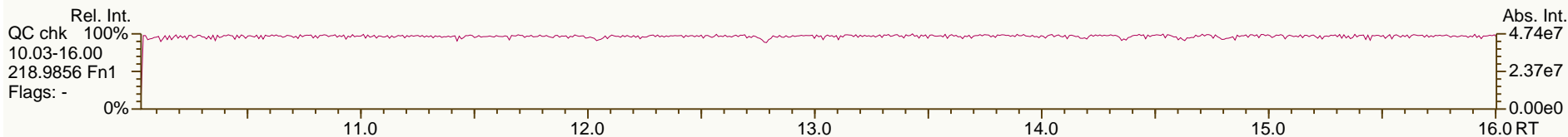


PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	1.74E+09	1.08 Y	1.23	1.26	2.3%	
PCB-186 22'34566'-HpCB	36.99	1.57E+09	1.09 Y	1.13	1.14	1.1%	
PCB-178 22'33'55'6'-HpCB	38.12	1.21E+09	1.09 Y	0.84	0.88	4.2%	
PCB-175 22'33'45'6'-HpCB	38.67	1.91E+09	1.06 Y	1.07	1.15	7.1%	
PCB-187 22'34'55'6'-HpCB	38.90	2.01E+09	1.06 Y	1.14	1.21	6.2%	
PCB-182 22'344'56'-HpCB	39.08	2.05E+09	1.06 Y	1.18	1.23	4.6%	
PCB-183 22'344'5'6'-HpCB	39.42	2.03E+09	1.05 Y	1.20	1.22	1.1%	
PCB-185 22'3455'6'-HpCB	39.51	2.01E+09	1.06 Y	1.06	1.21	13.9%	
PCB-174 22'33'456'-HpCB	39.62	1.71E+09	1.06 Y	0.99	1.03	4.0%	
PCB-177 22'33'45'6'-HpCB	39.99	1.65E+09	1.06 Y	0.95	0.99	4.3%	
PCB-181 22'344'56'-HpCB	40.34	1.95E+09	1.06 Y	1.09	1.17	7.5%	
PCB-171/173 ...-HpCB	40.53	3.42E+09	1.06 Y	0.95	1.03	8.3%	
PCB-172 22'33'455'-HpCB	41.88	1.73E+09	1.06 Y	0.99	1.04	5.0%	
PCB-192 233'455'6'-HpCB	42.13	2.27E+09	1.06 Y	1.29	1.36	5.9%	
PCB-180/193 ...-HpCB	42.40	4.38E+09	1.06 Y	1.26	1.31	4.3%	
PCB-191 233'44'5'6'-HpCB	42.73	2.40E+09	1.06 Y	1.40	1.44	3.3%	
PCB-170 22'33'44'5'-HpCB	43.51	1.66E+09	1.05 Y	1.14	1.24	9.0%	
PCB-190 233'44'56'-HpCB	43.96	2.44E+09	1.05 Y	1.66	1.82	9.7%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-201 22'33'45'66'-OcCB	40.89	1.78E+09	0.92 Y	1.22	1.24	1.8%	
PCB-204 22'344'566'-OcCB	41.47	1.66E+09	0.92 Y	1.12	1.16	3.8%	
PCB-197 22'33'44'66'-OcCB	41.66	1.80E+09	0.92 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.75	1.68E+09	0.92 Y	1.11	1.17	6.1%	
PCB-198/199 ...-OcCB	44.07	2.46E+09	0.91 Y	0.81	0.86	5.9%	
PCB-196 22'33'44'56'-OcCB	44.65	1.24E+09	0.91 Y	0.83	0.87	3.9%	
PCB-203 22'344'55'6'-OcCB	44.82	1.30E+09	0.92 Y	0.87	0.91	4.0%	
PCB-195 22'33'44'56'-OcCB	45.95	1.40E+09	0.92 Y	0.77	0.82	6.5%	
PCB-194 22'33'44'55'-OcCB	47.89	1.50E+09	0.93 Y	0.84	0.88	4.1%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-207 22'33'44'566'-NoCB	46.53	2.03E+09	0.79 Y	1.19	1.24	4.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

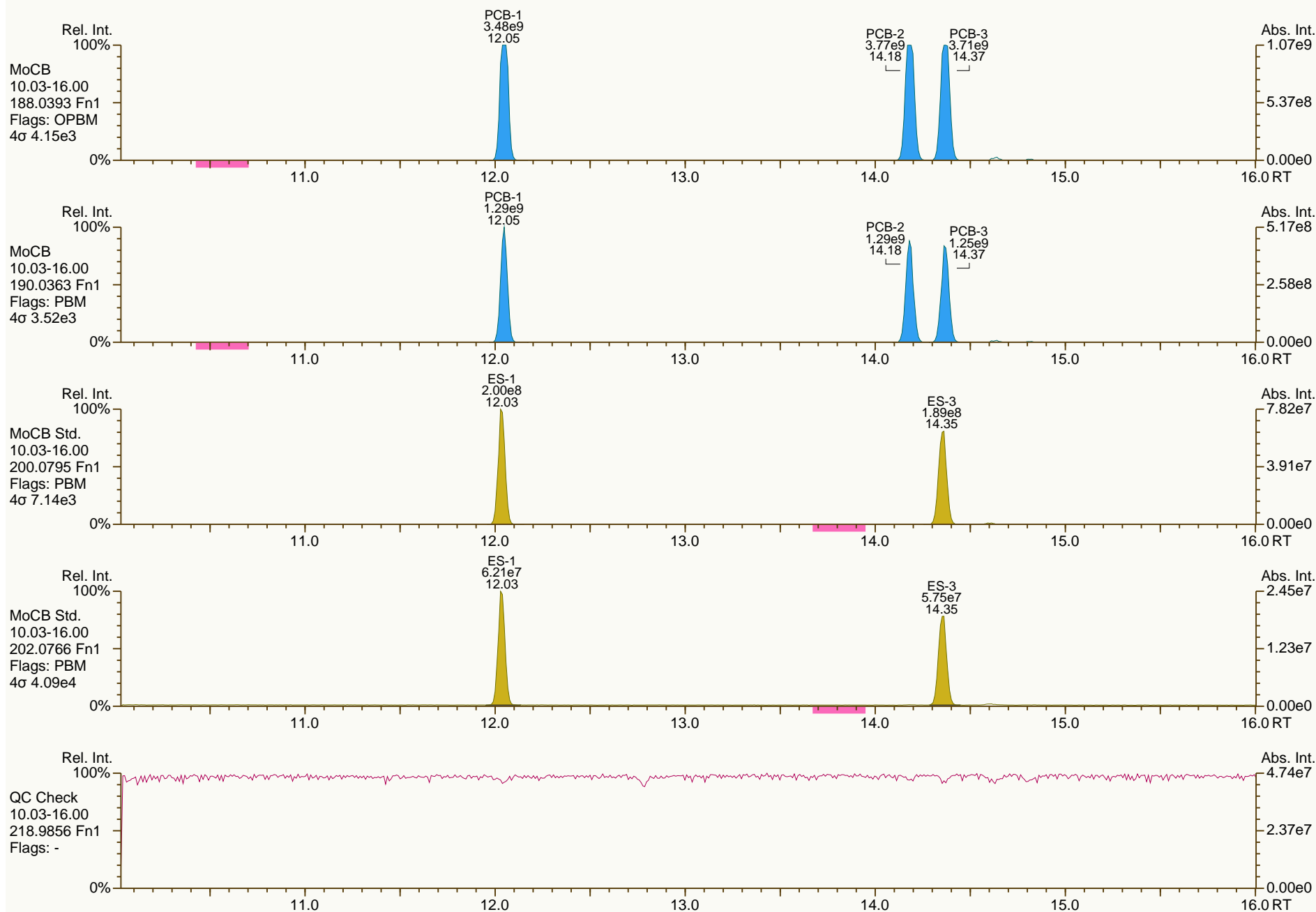
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

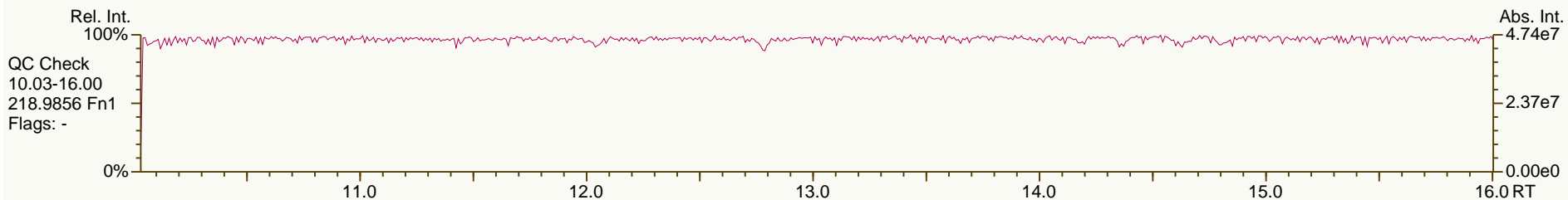
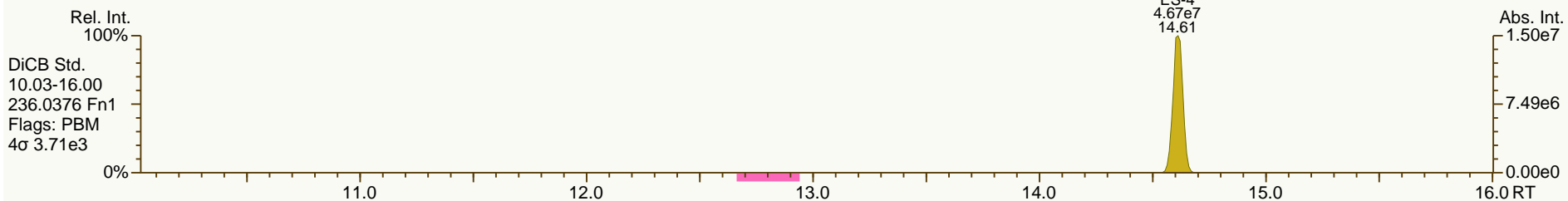
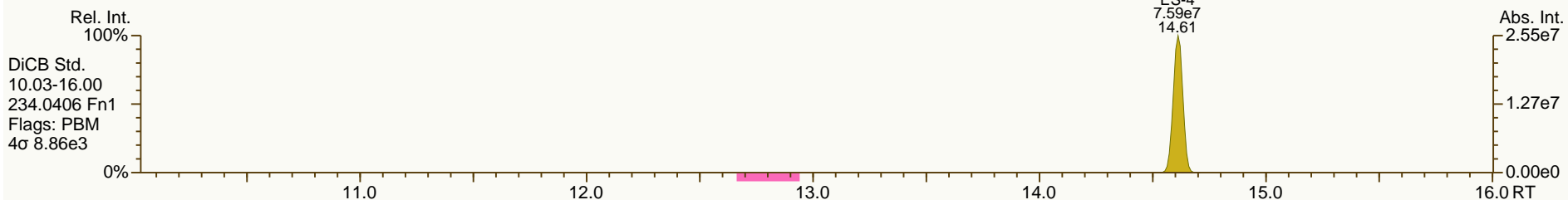
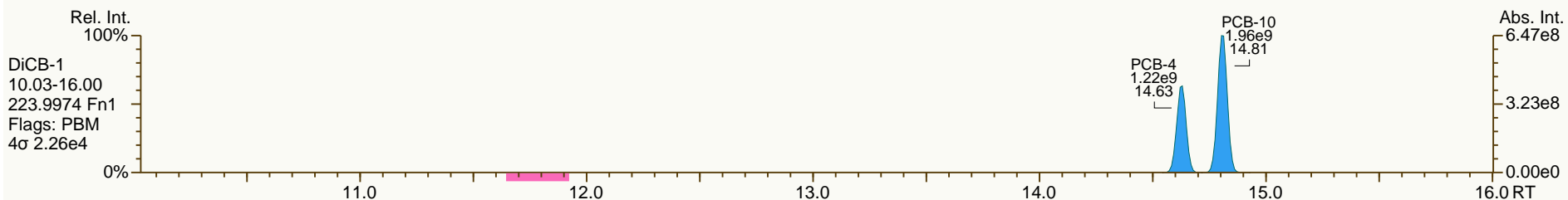
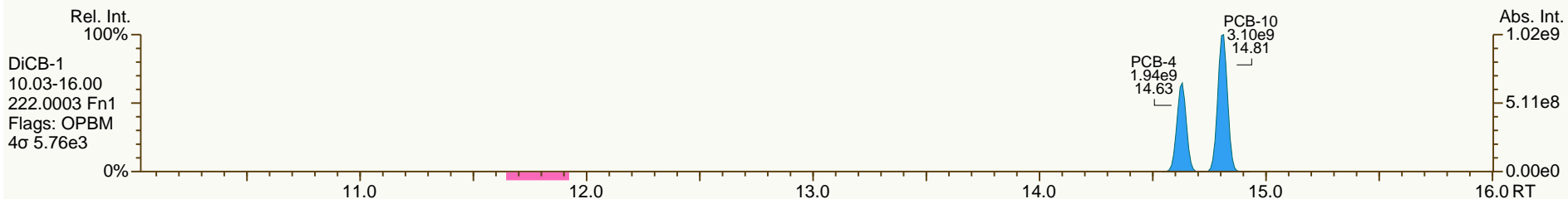
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

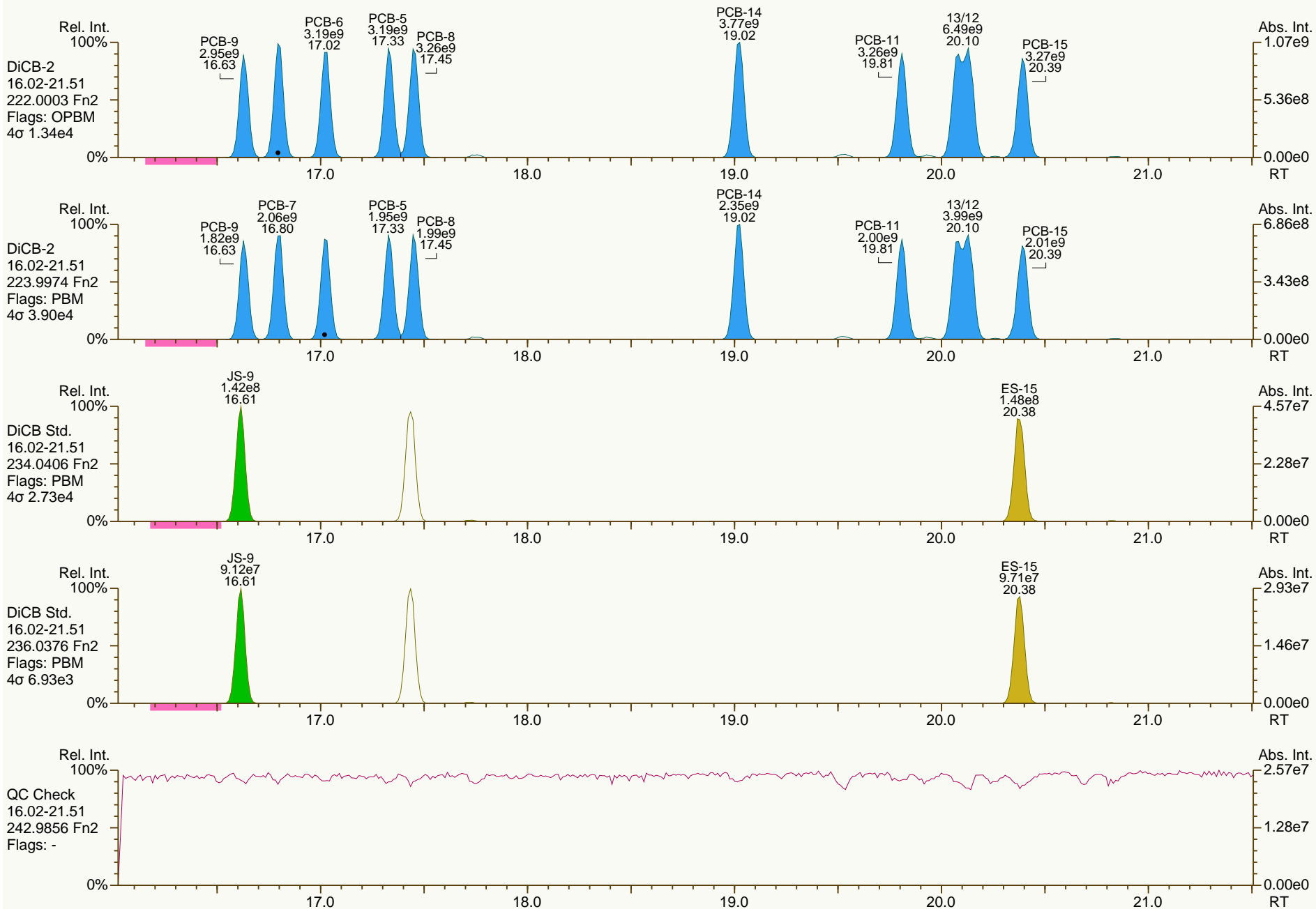
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

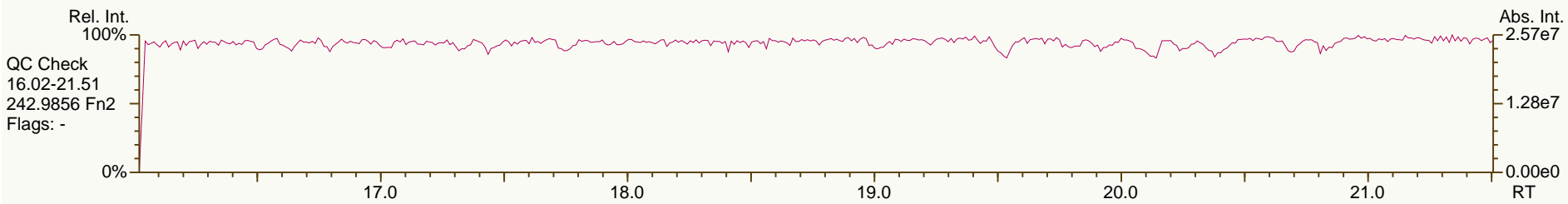
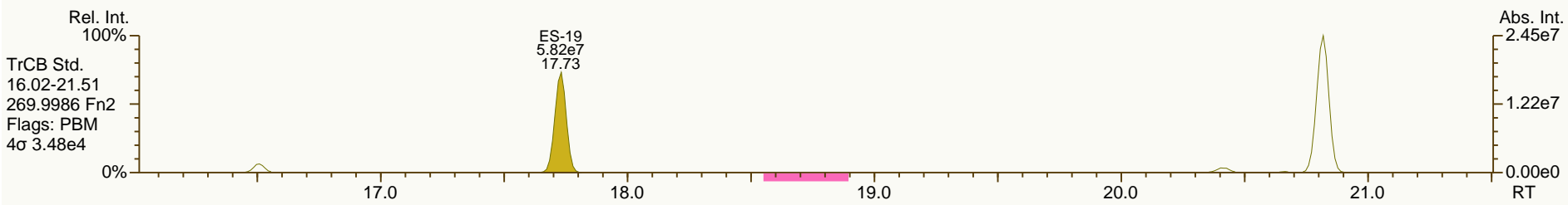
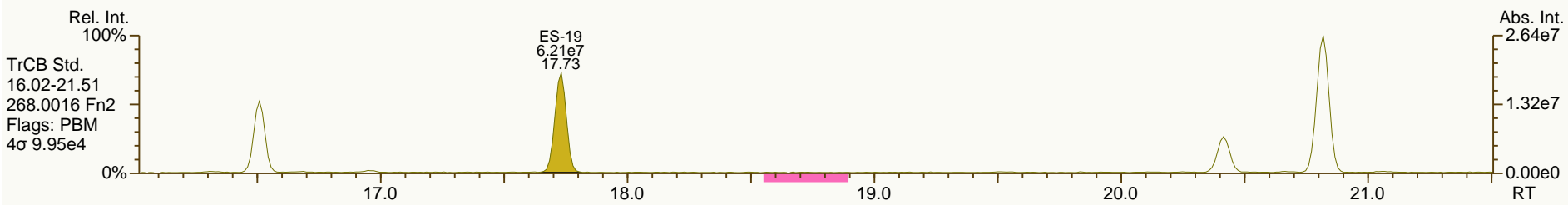
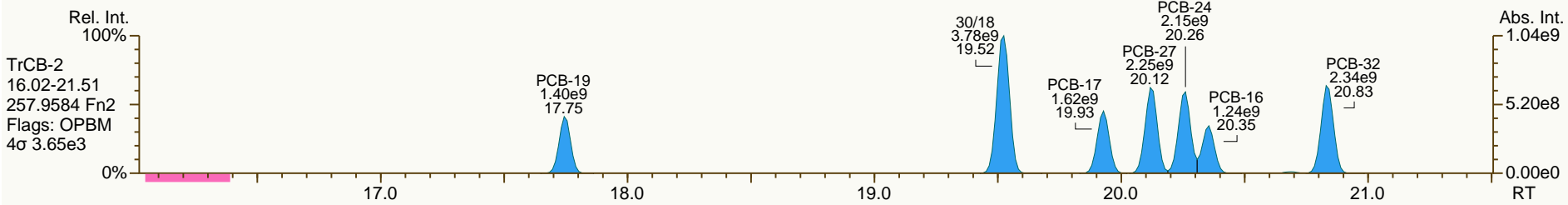
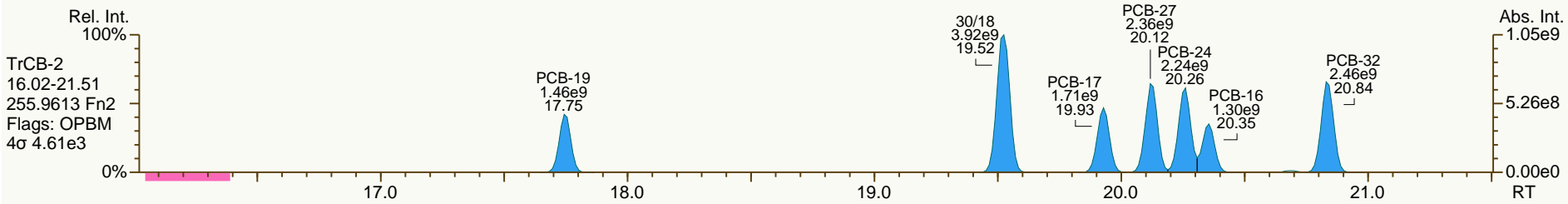
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

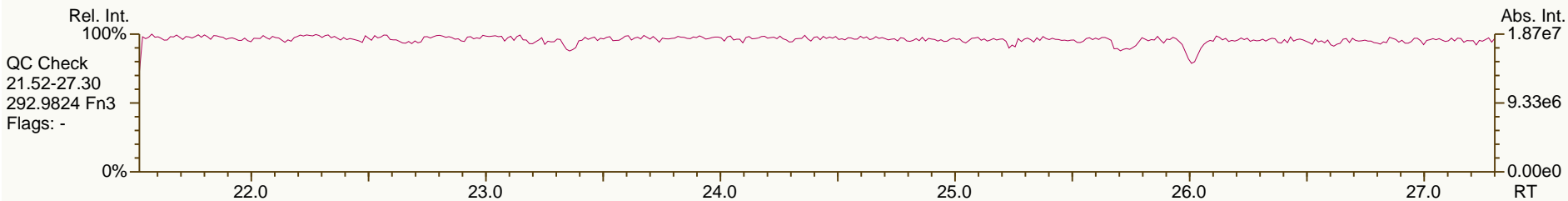
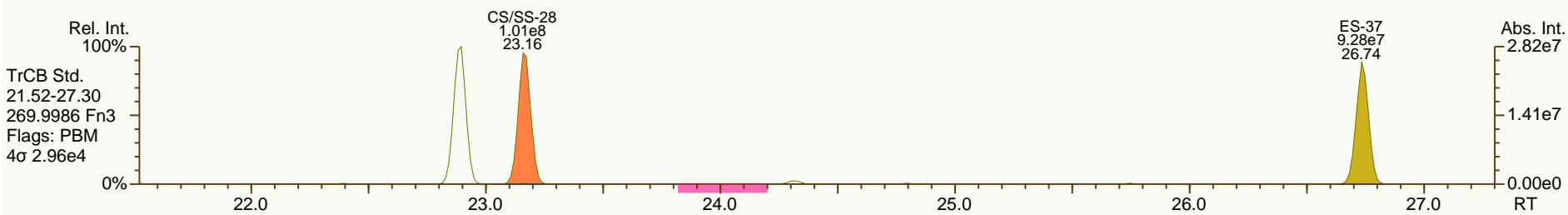
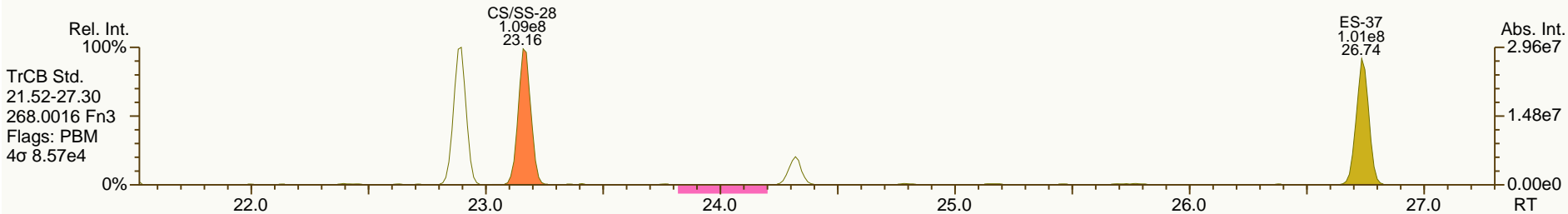
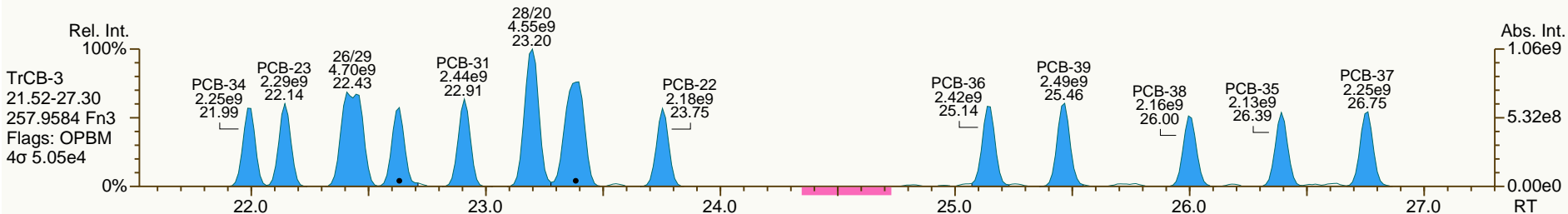
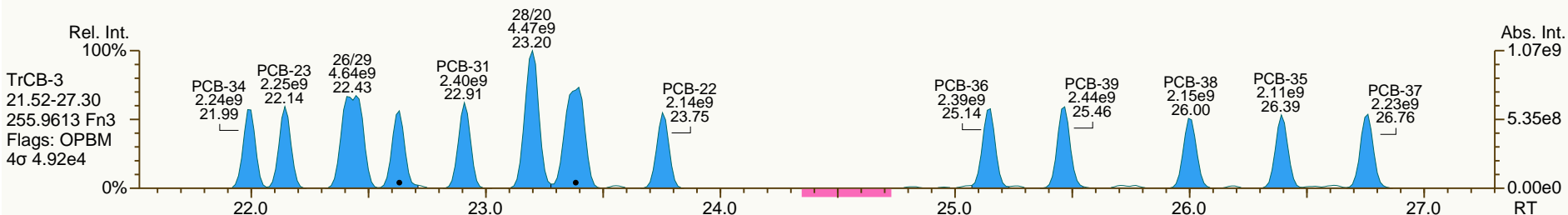
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
 User: LKB Datafile: 131220X08



SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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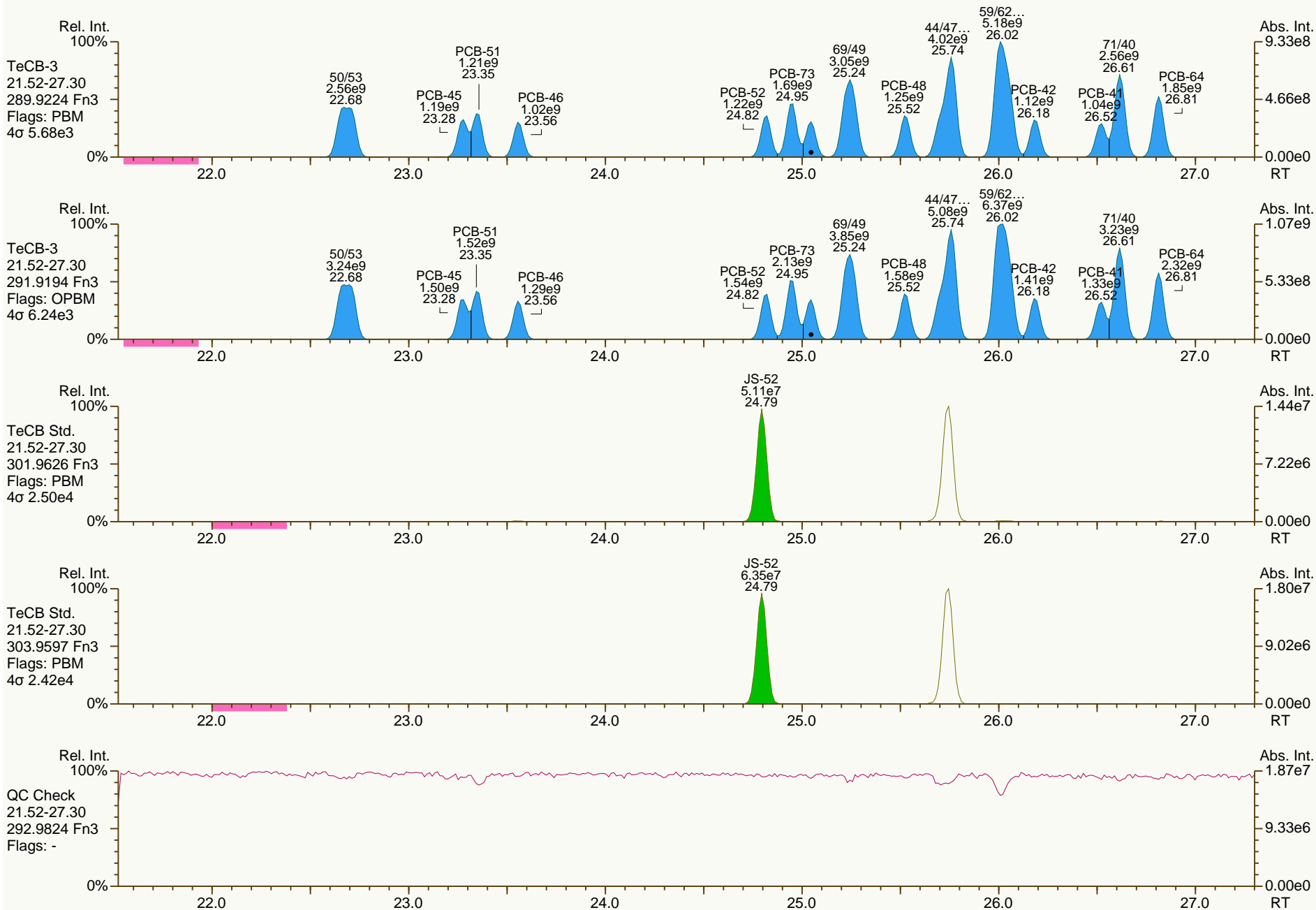




SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

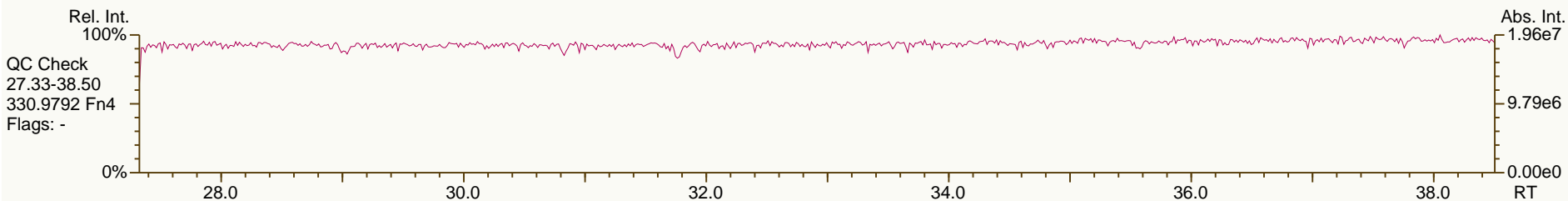
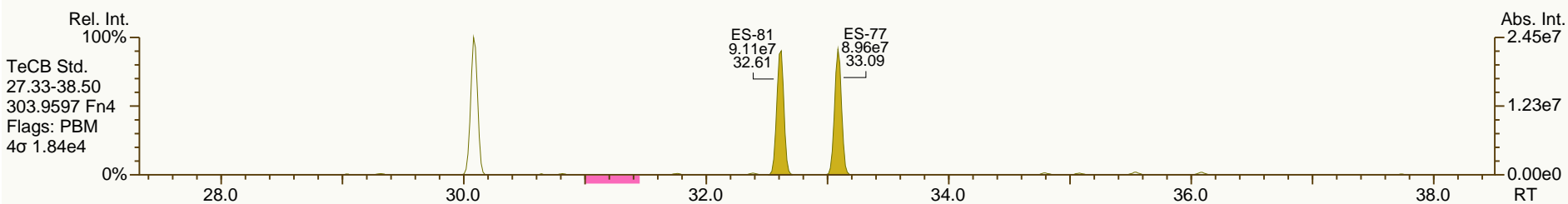
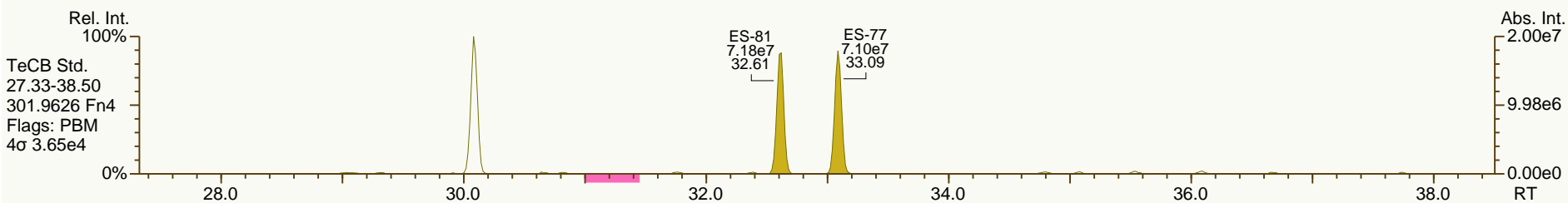
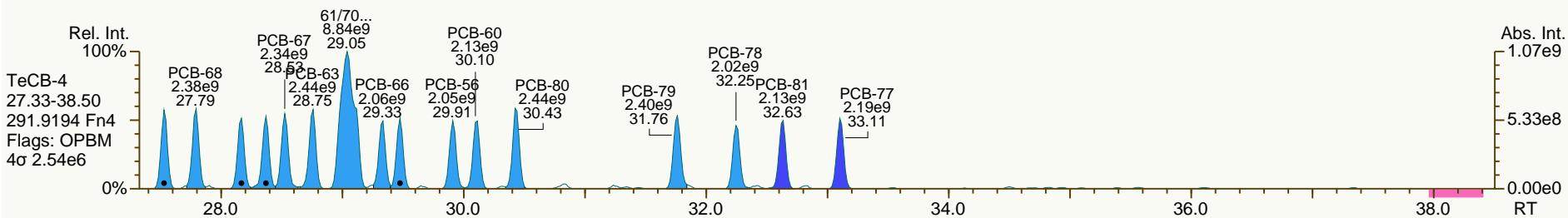
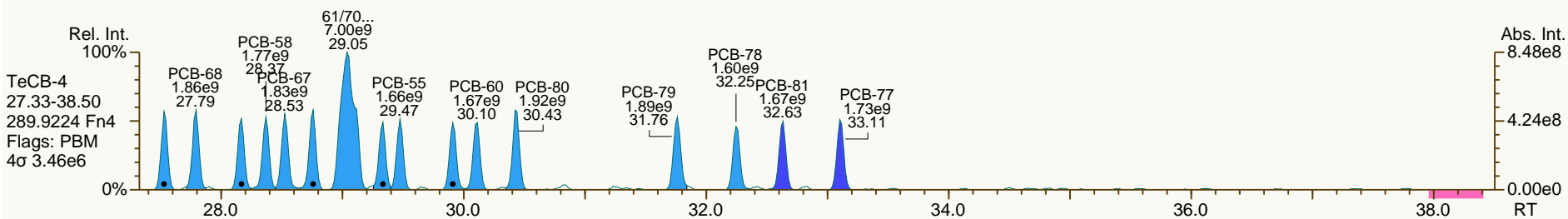
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

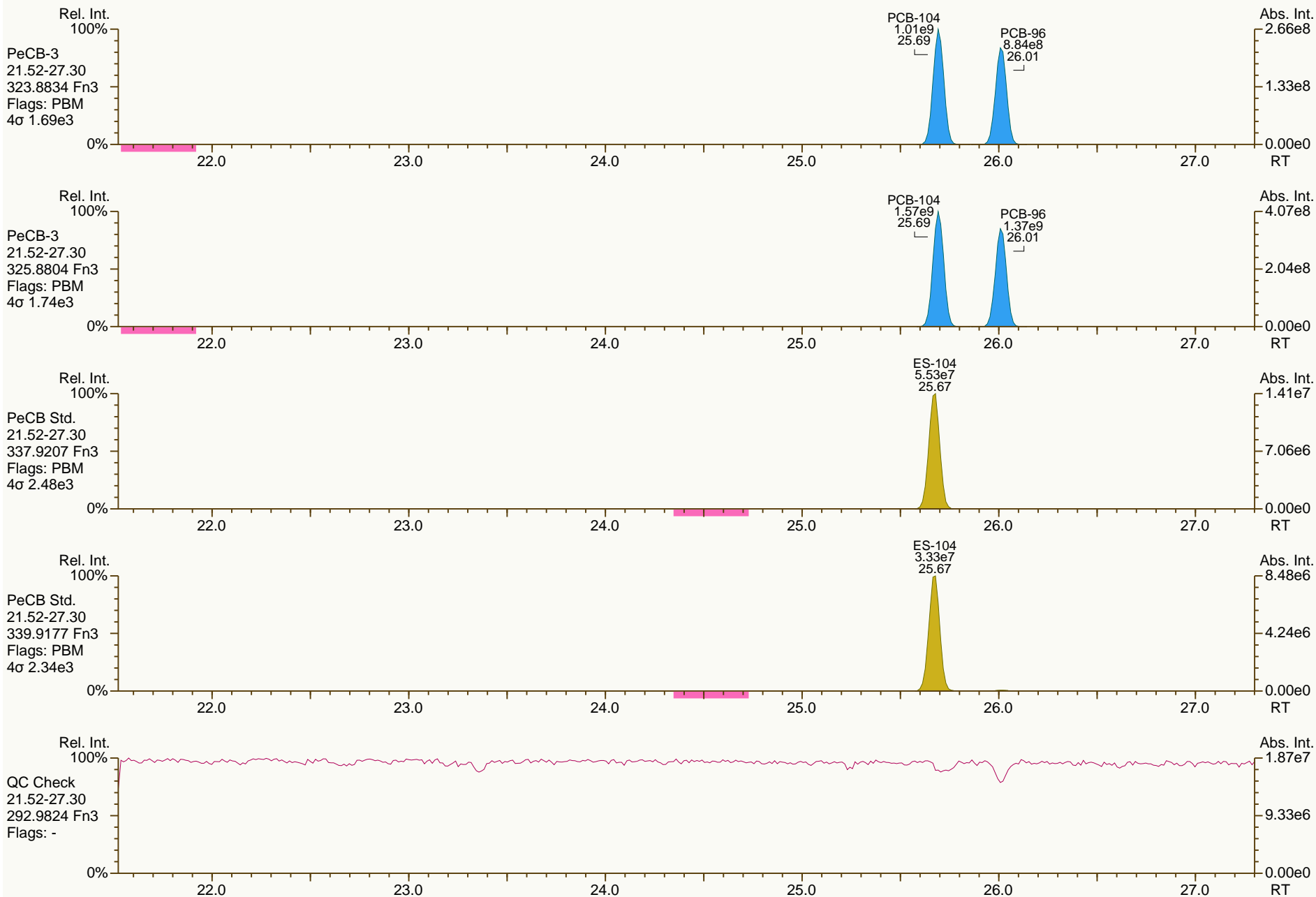
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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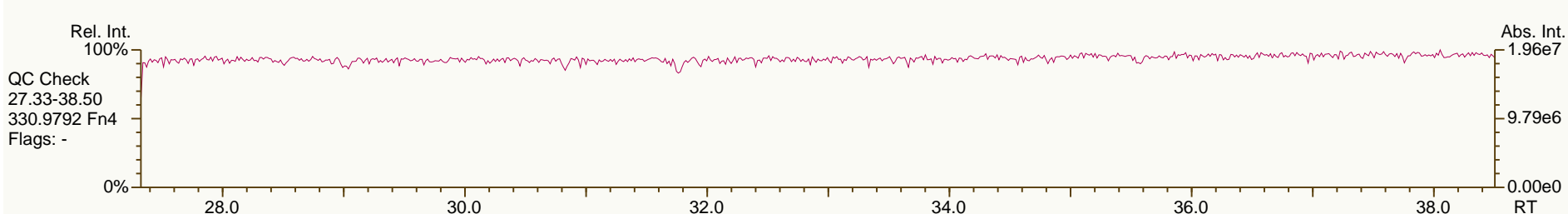
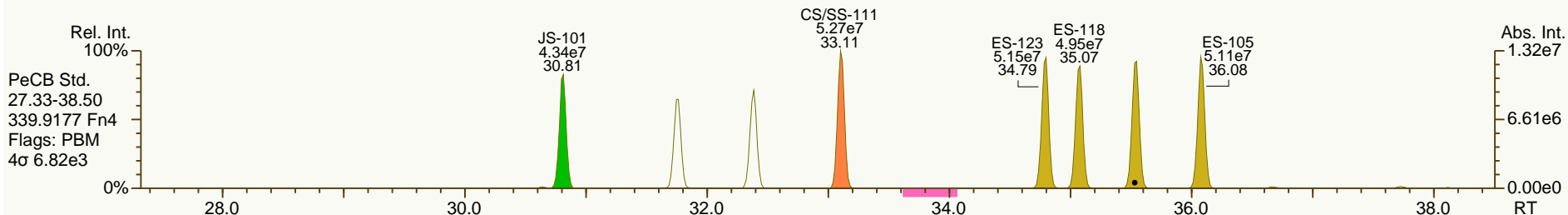
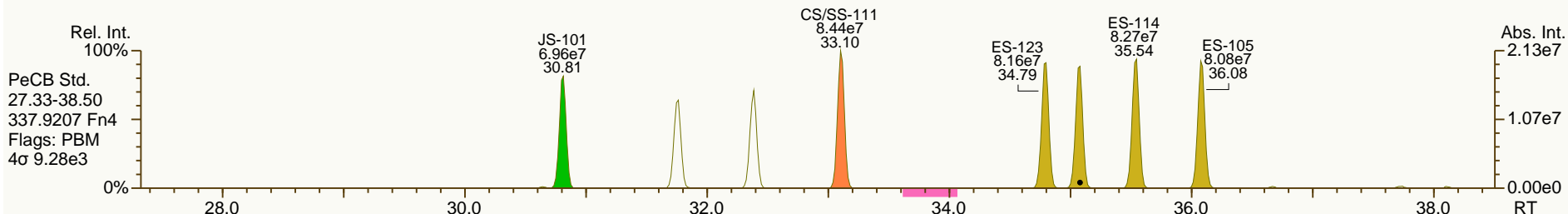
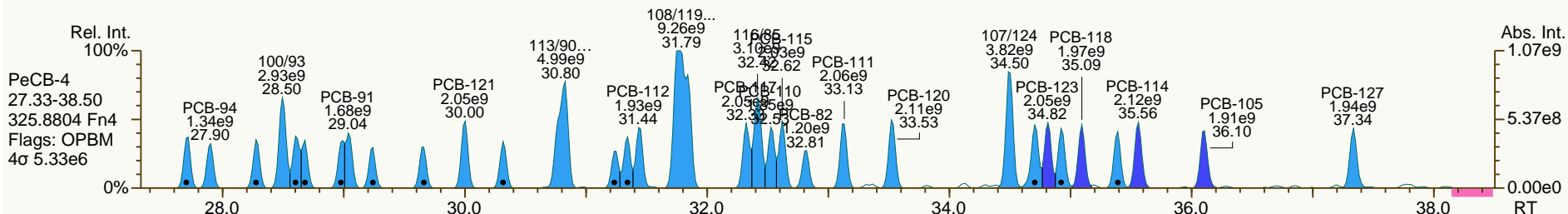
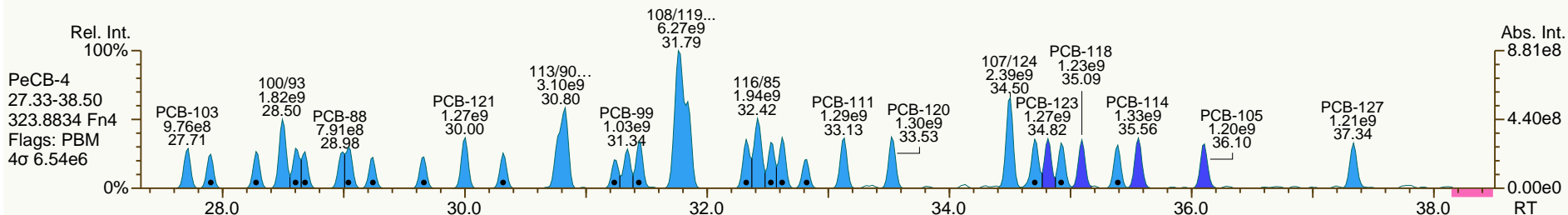
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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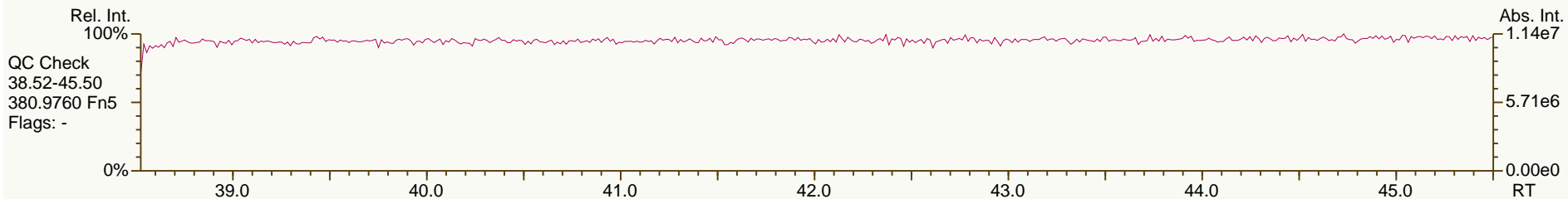
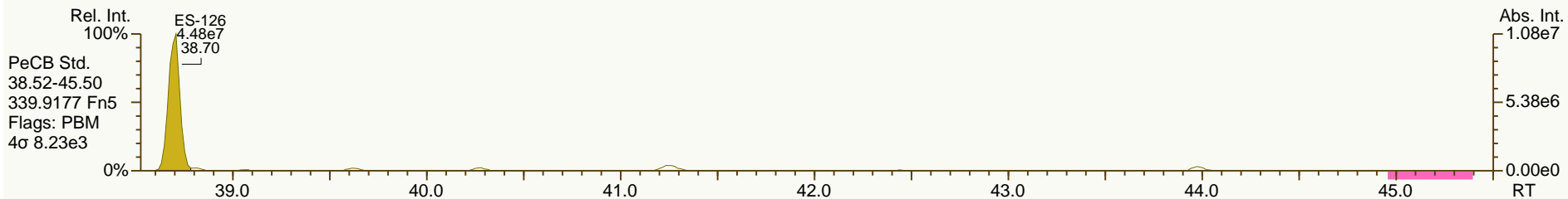
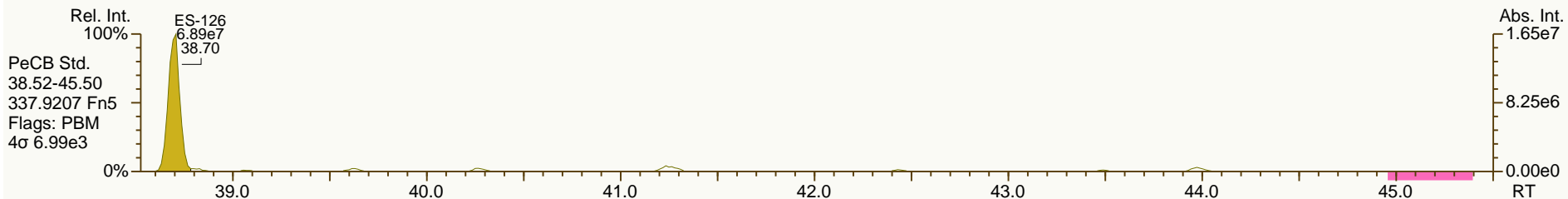
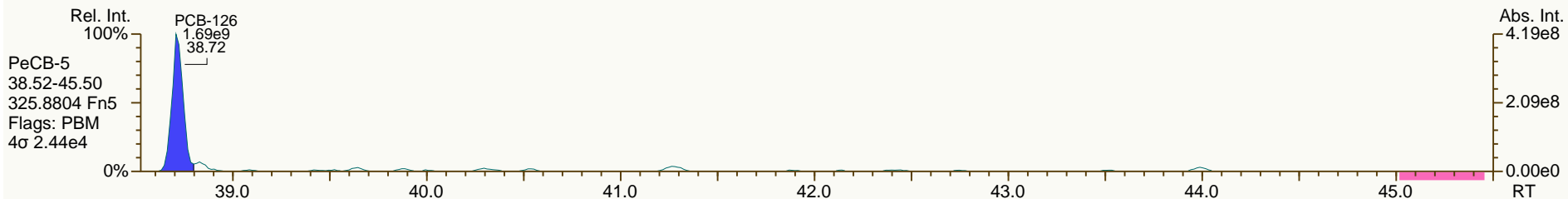
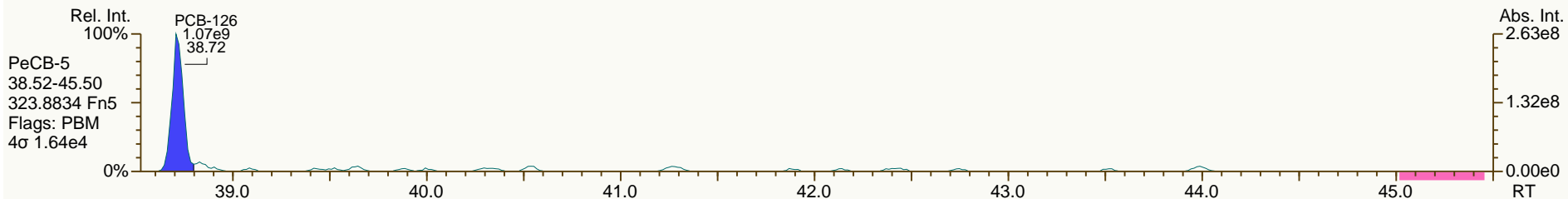
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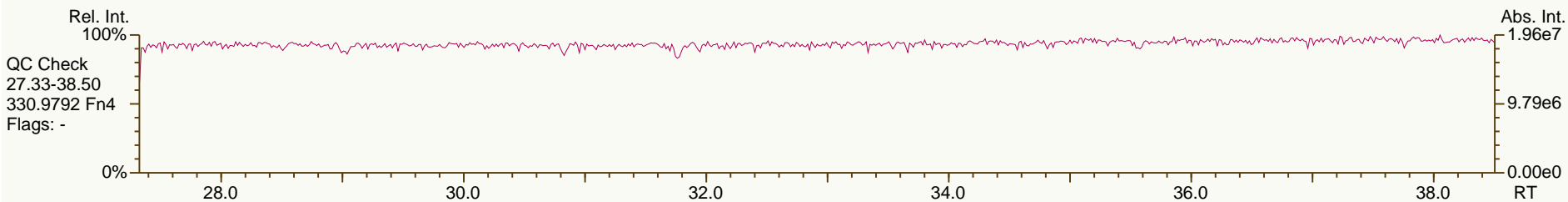
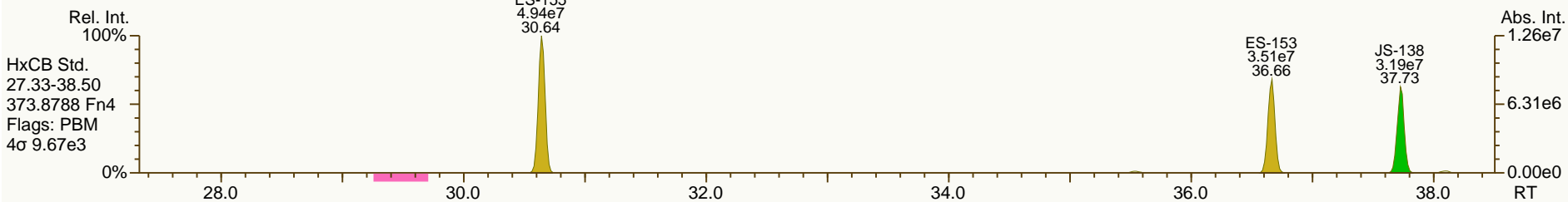
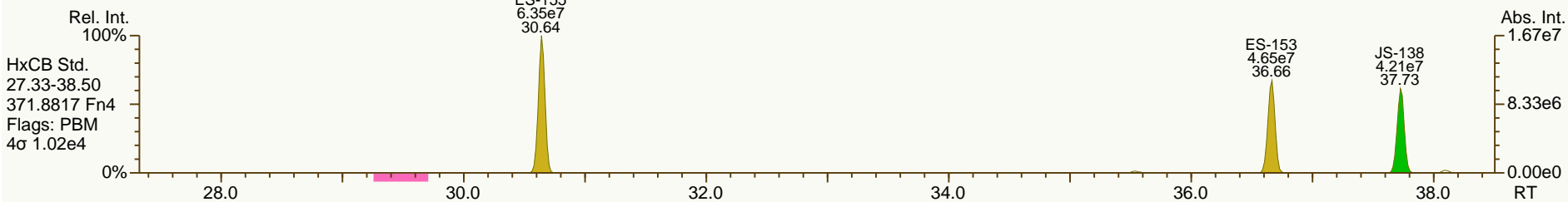
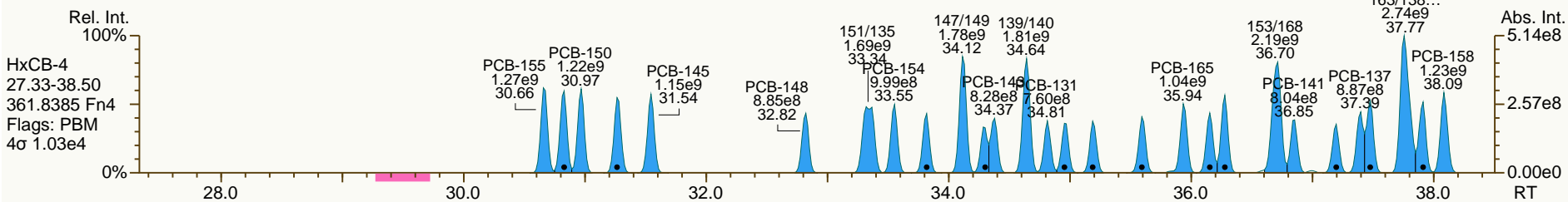
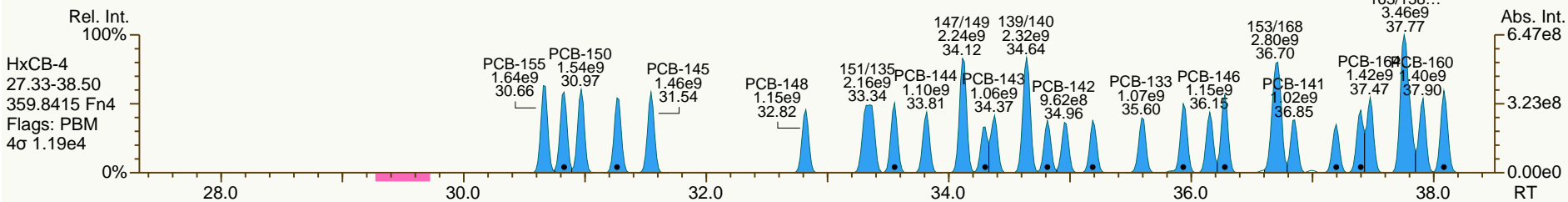
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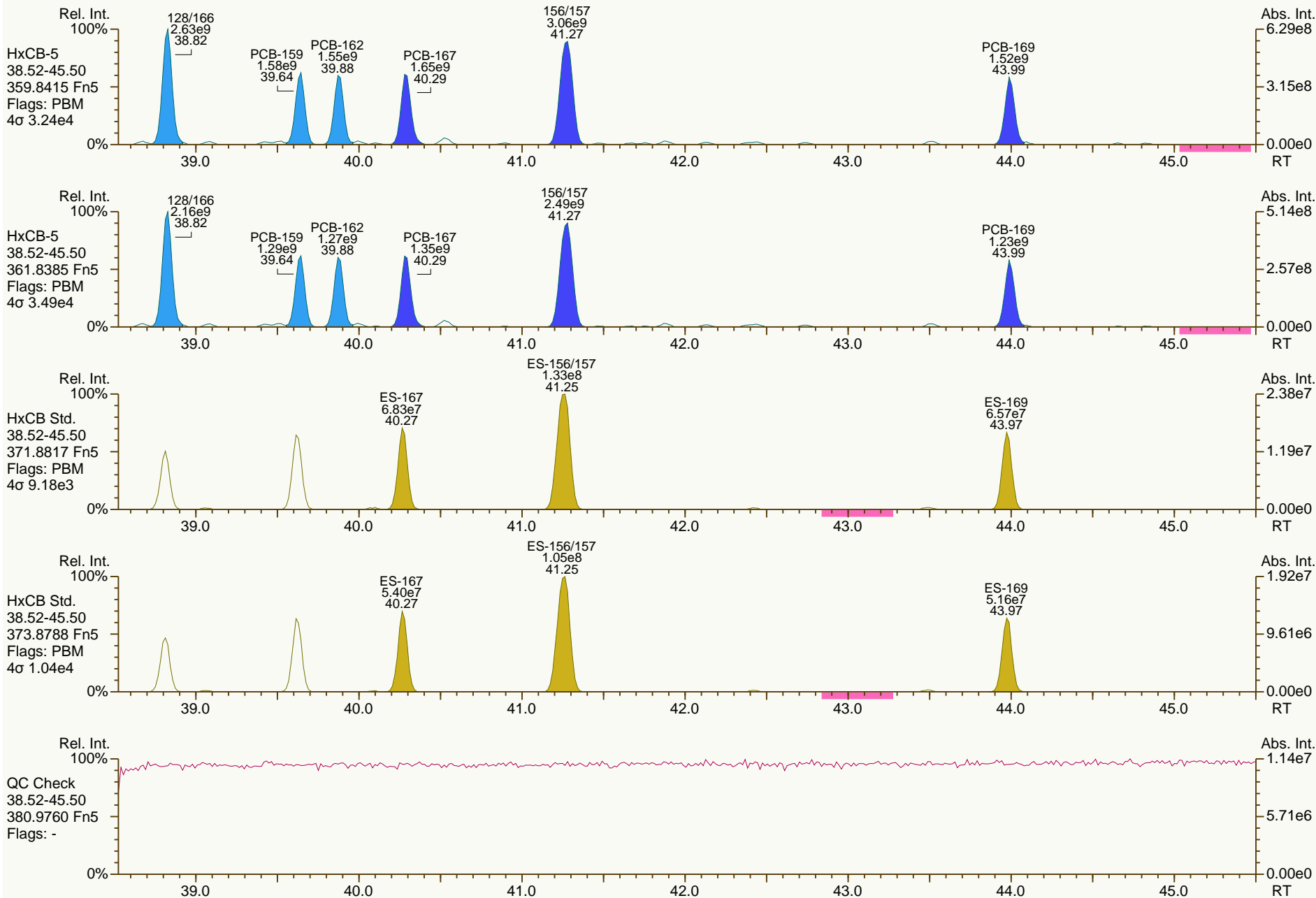
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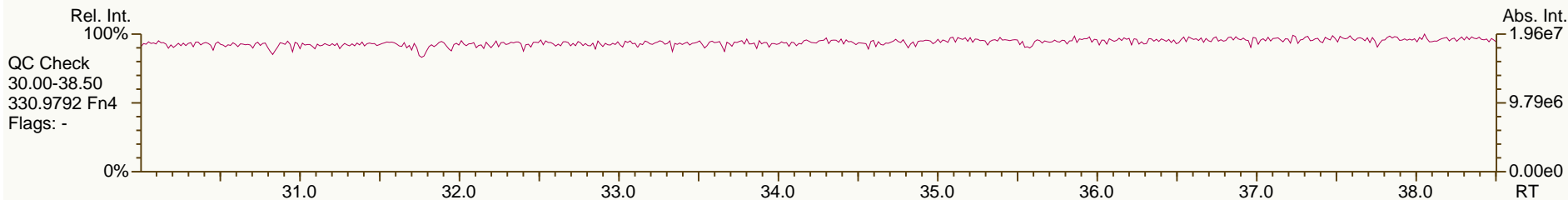
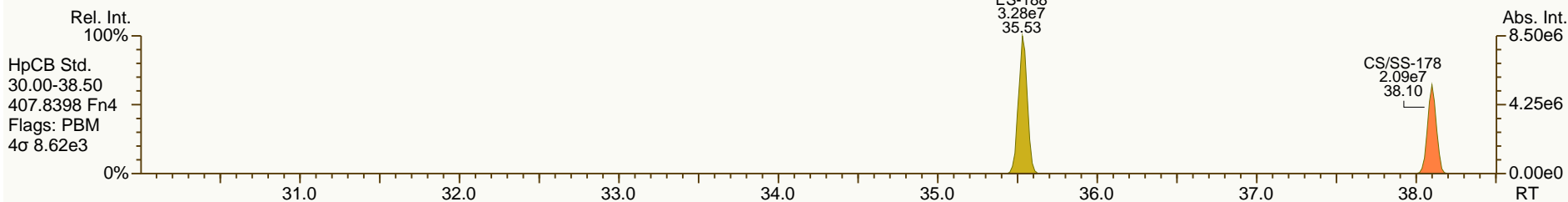
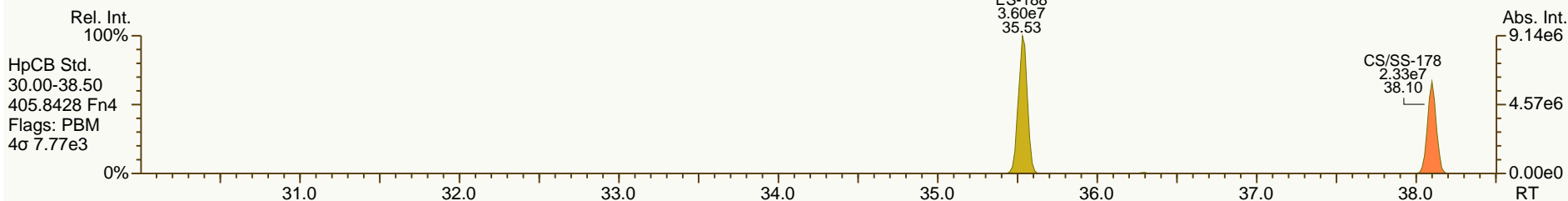
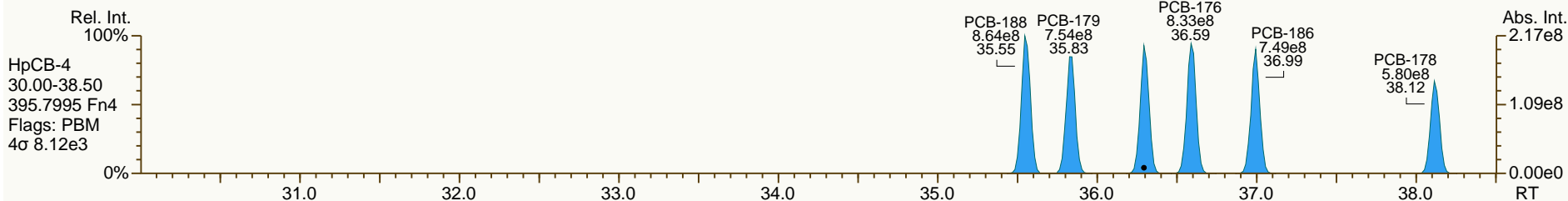
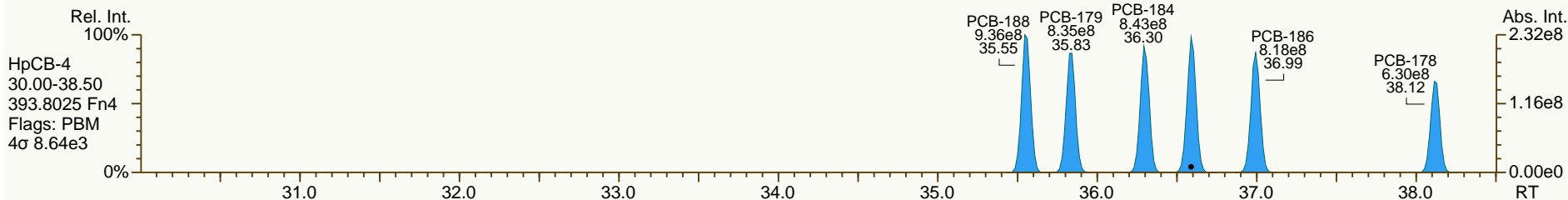
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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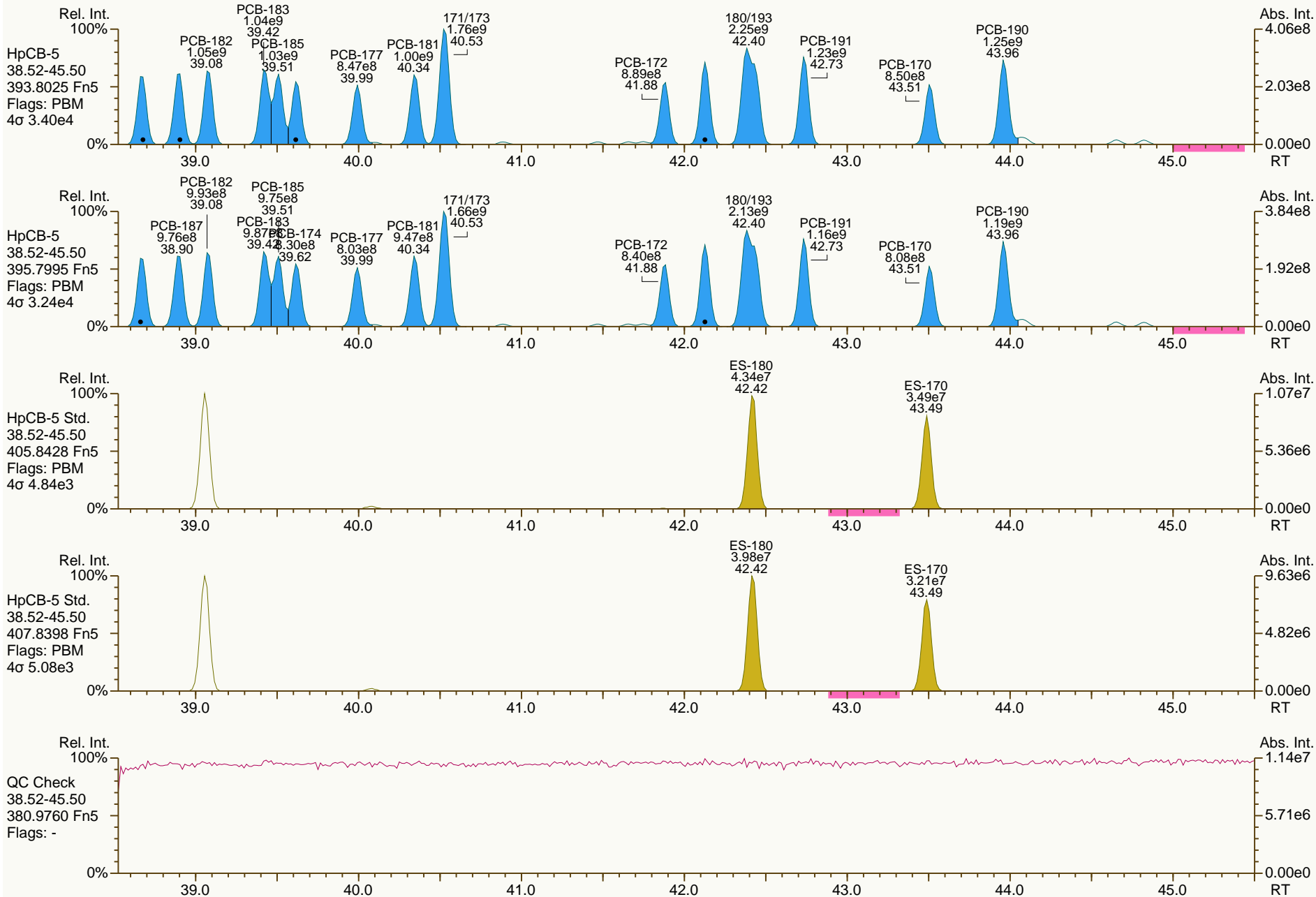




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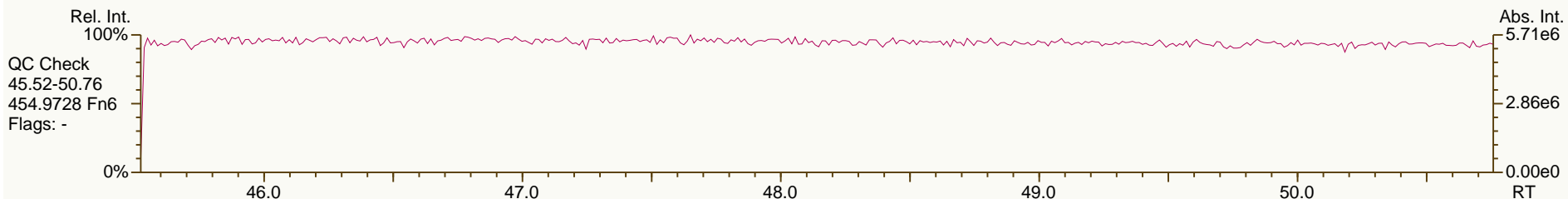
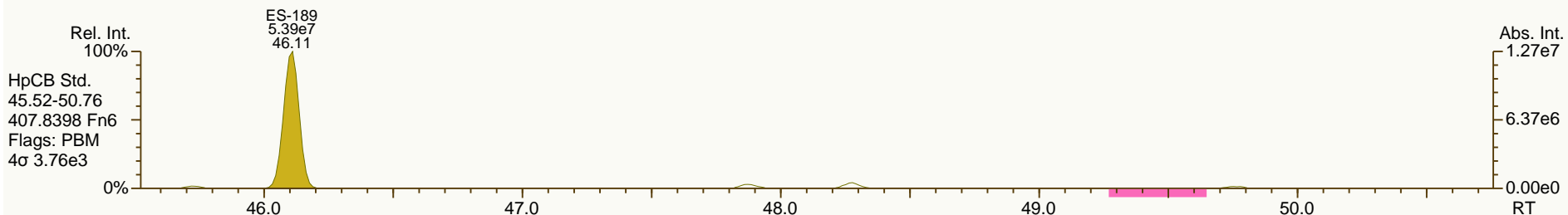
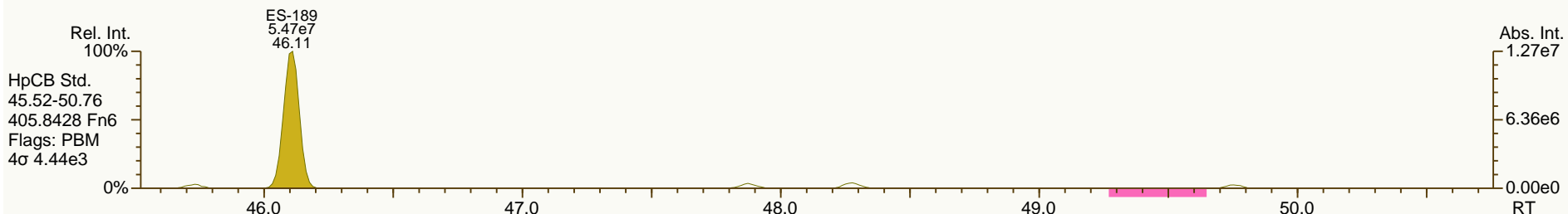
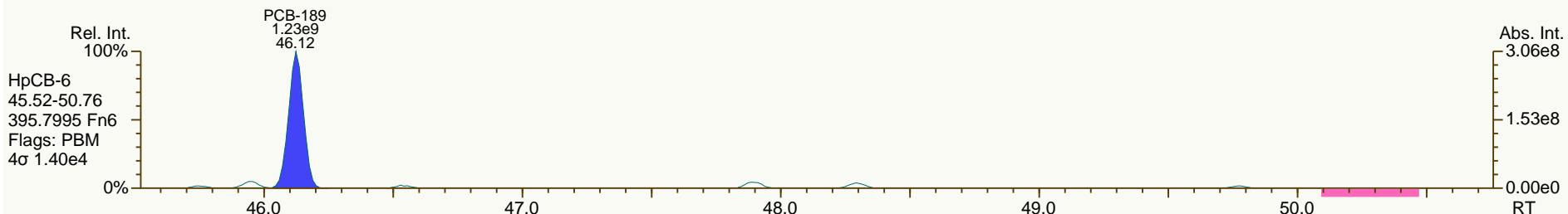
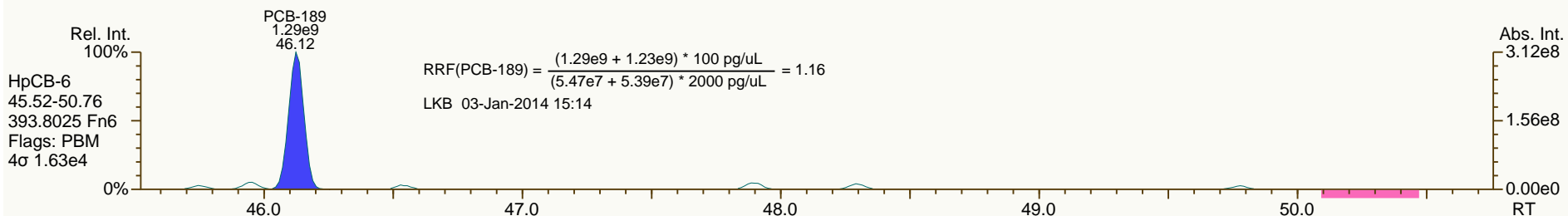
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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Sample ID: SIL 13-84-1  
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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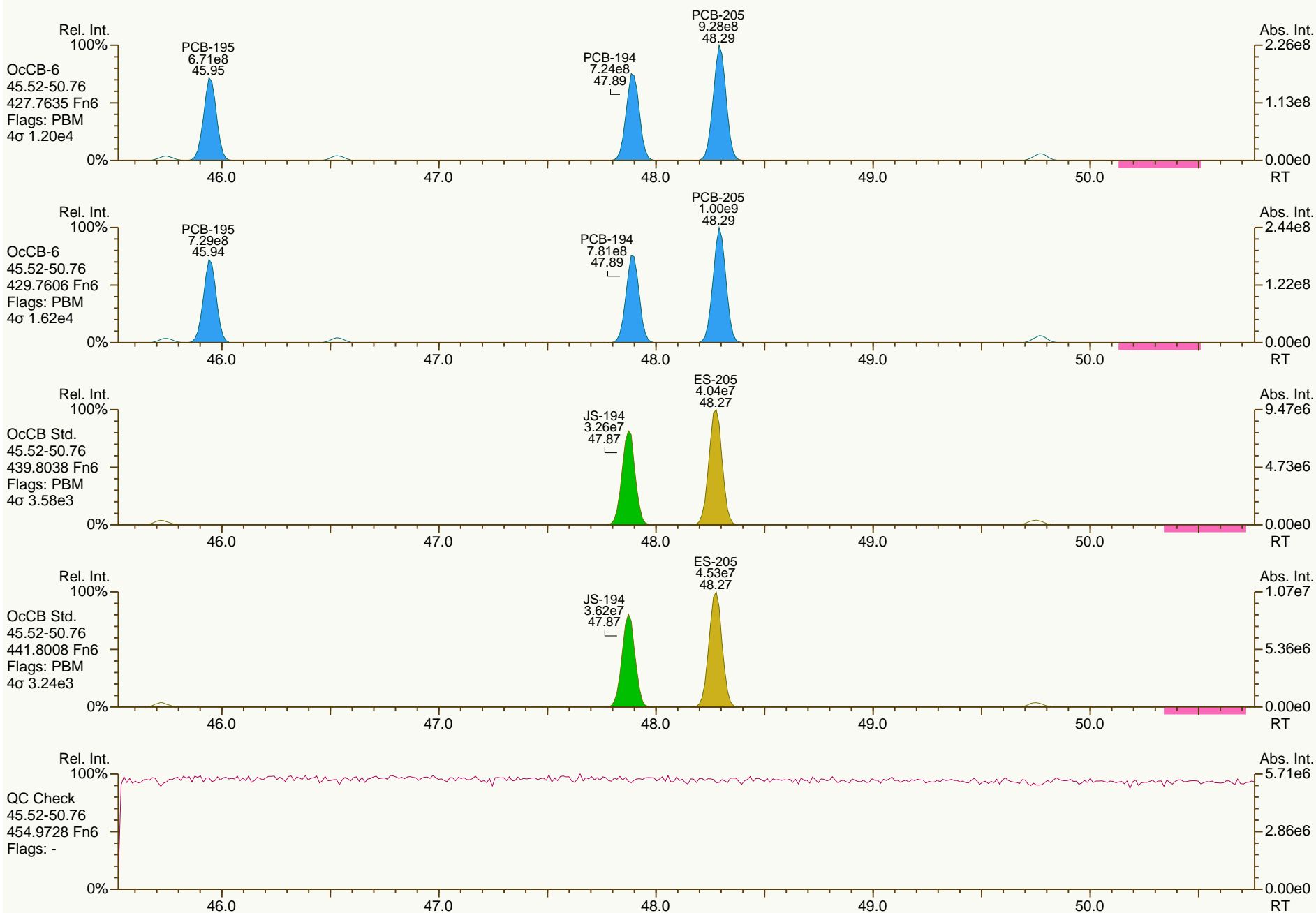
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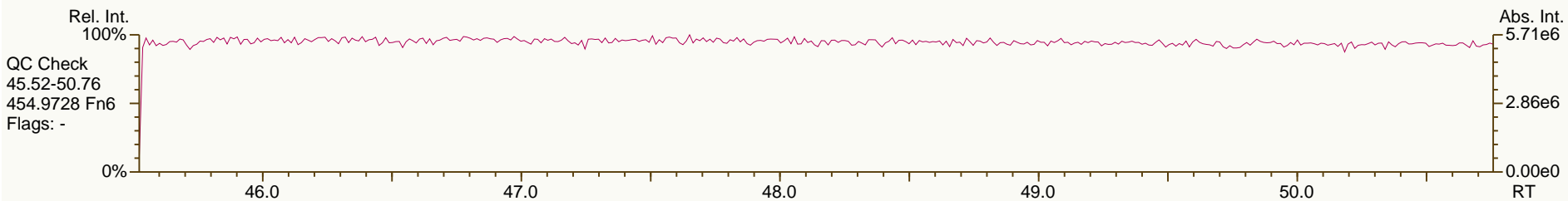
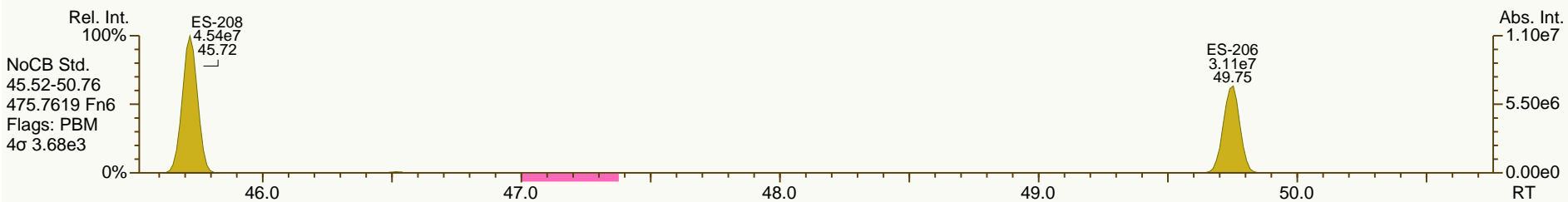
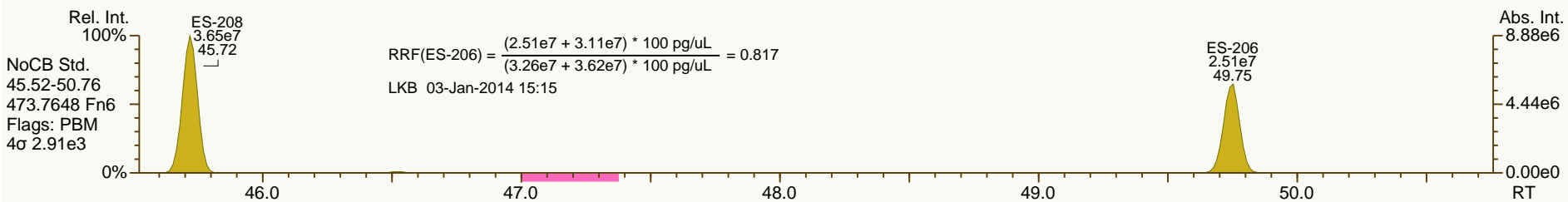
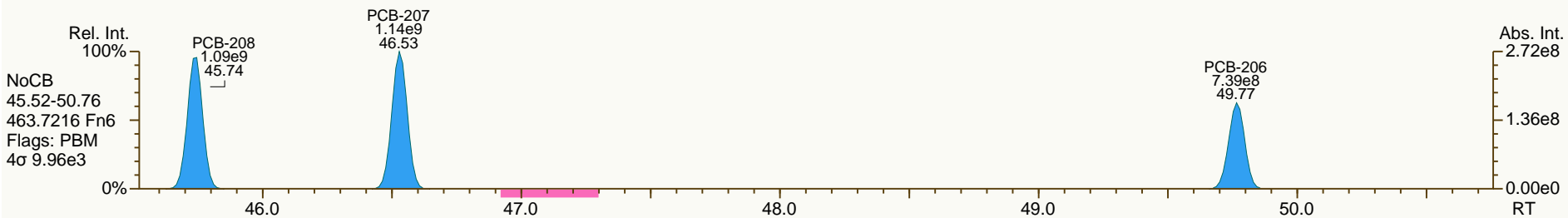
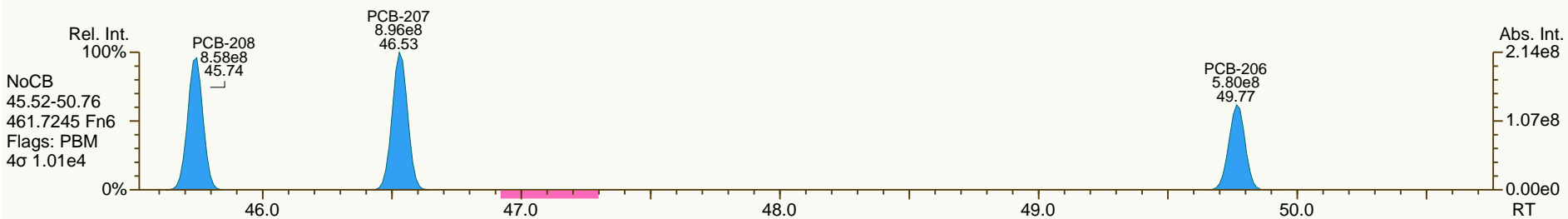
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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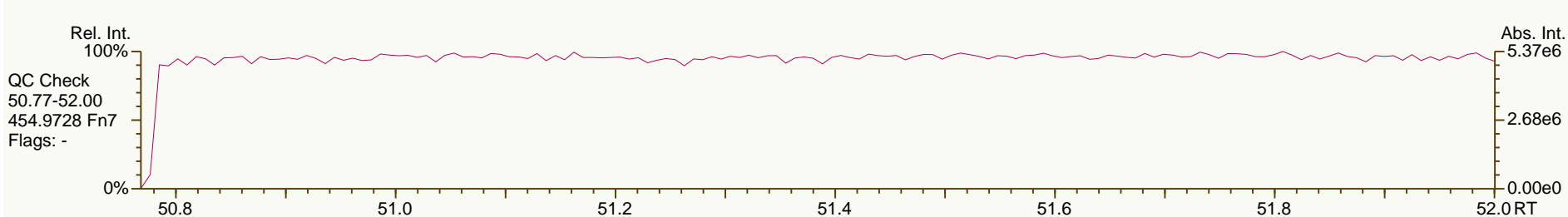
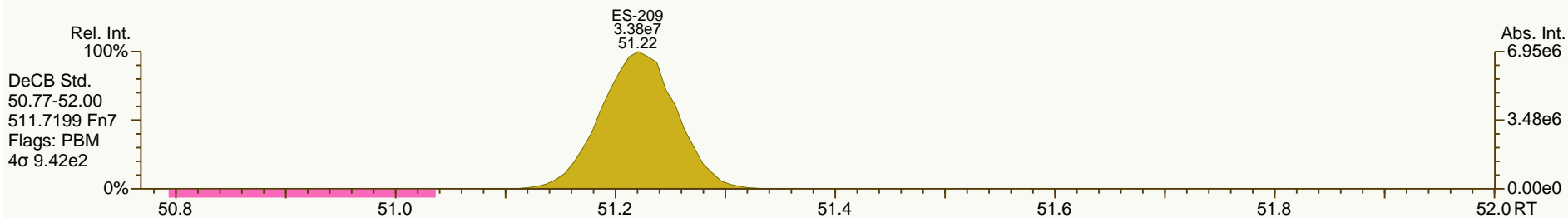
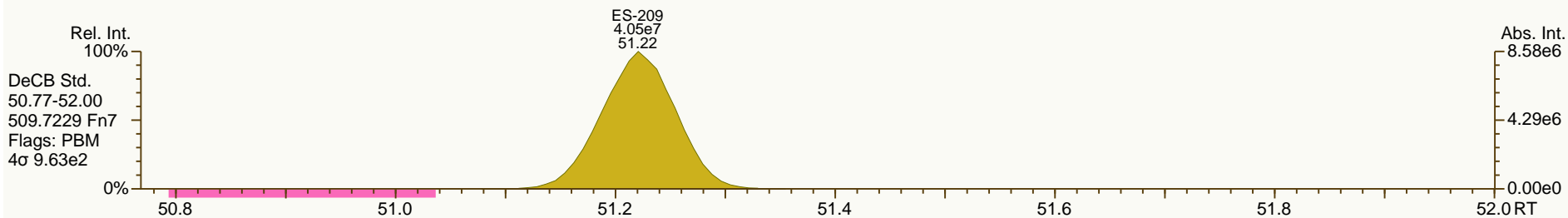
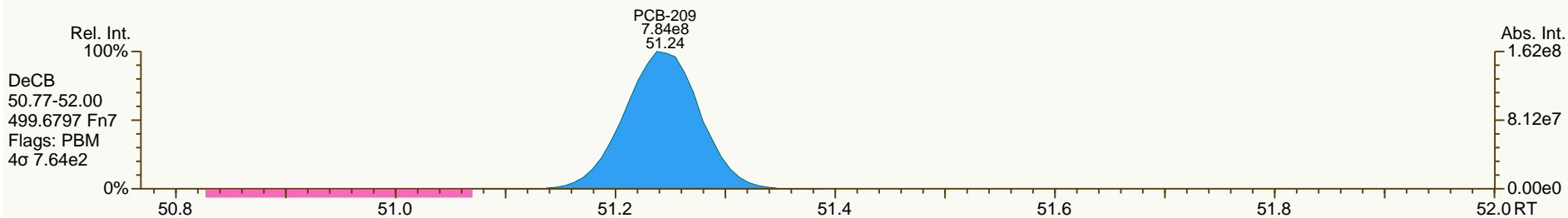
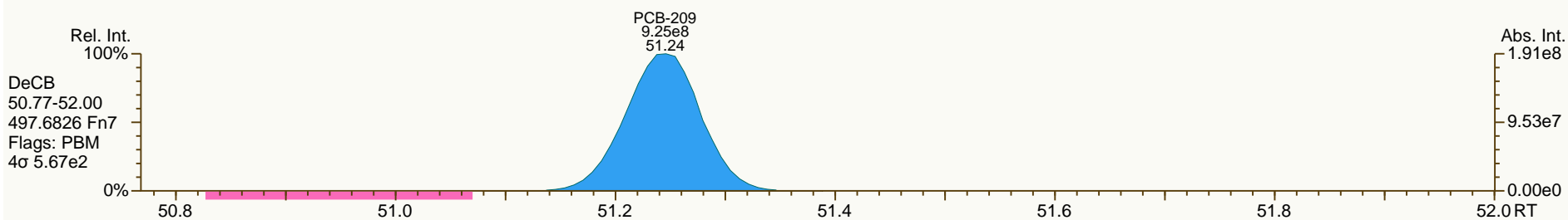
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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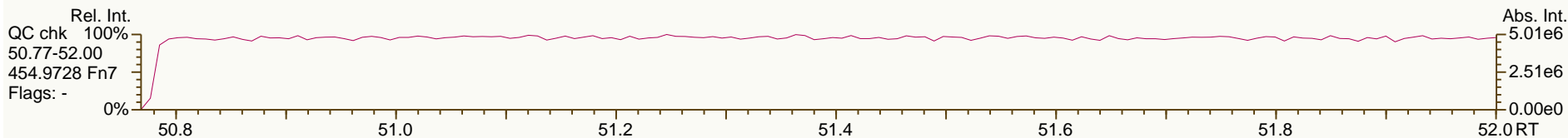
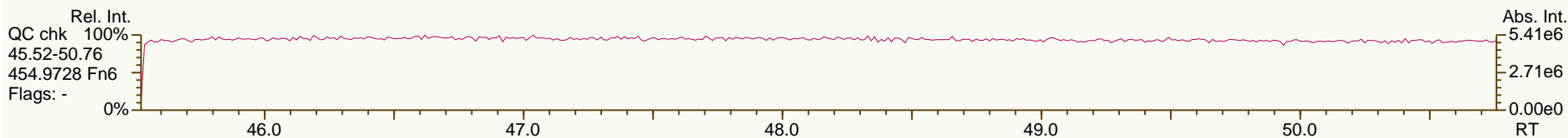
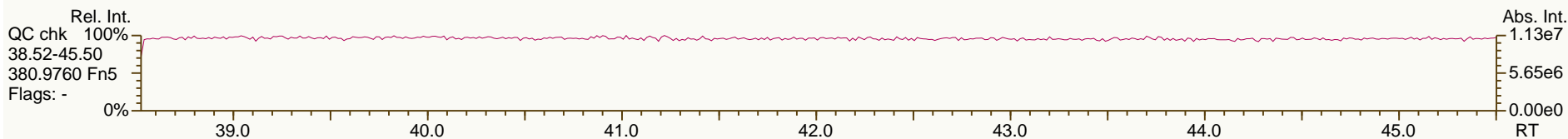
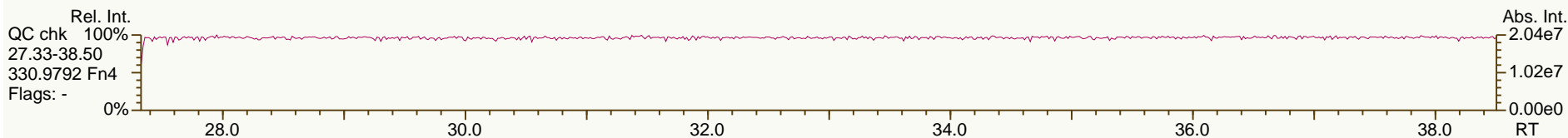
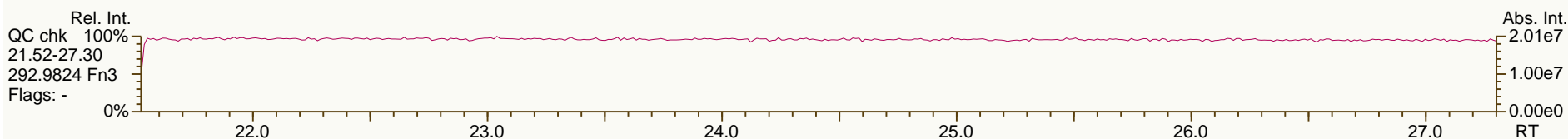
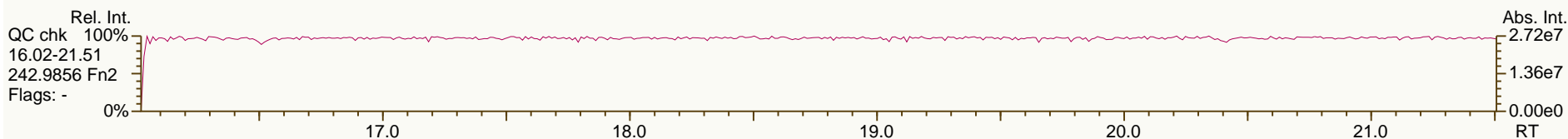
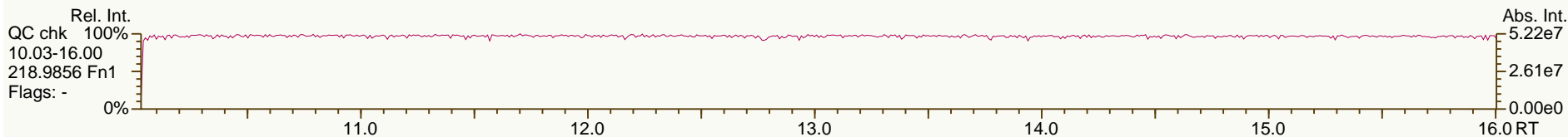
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

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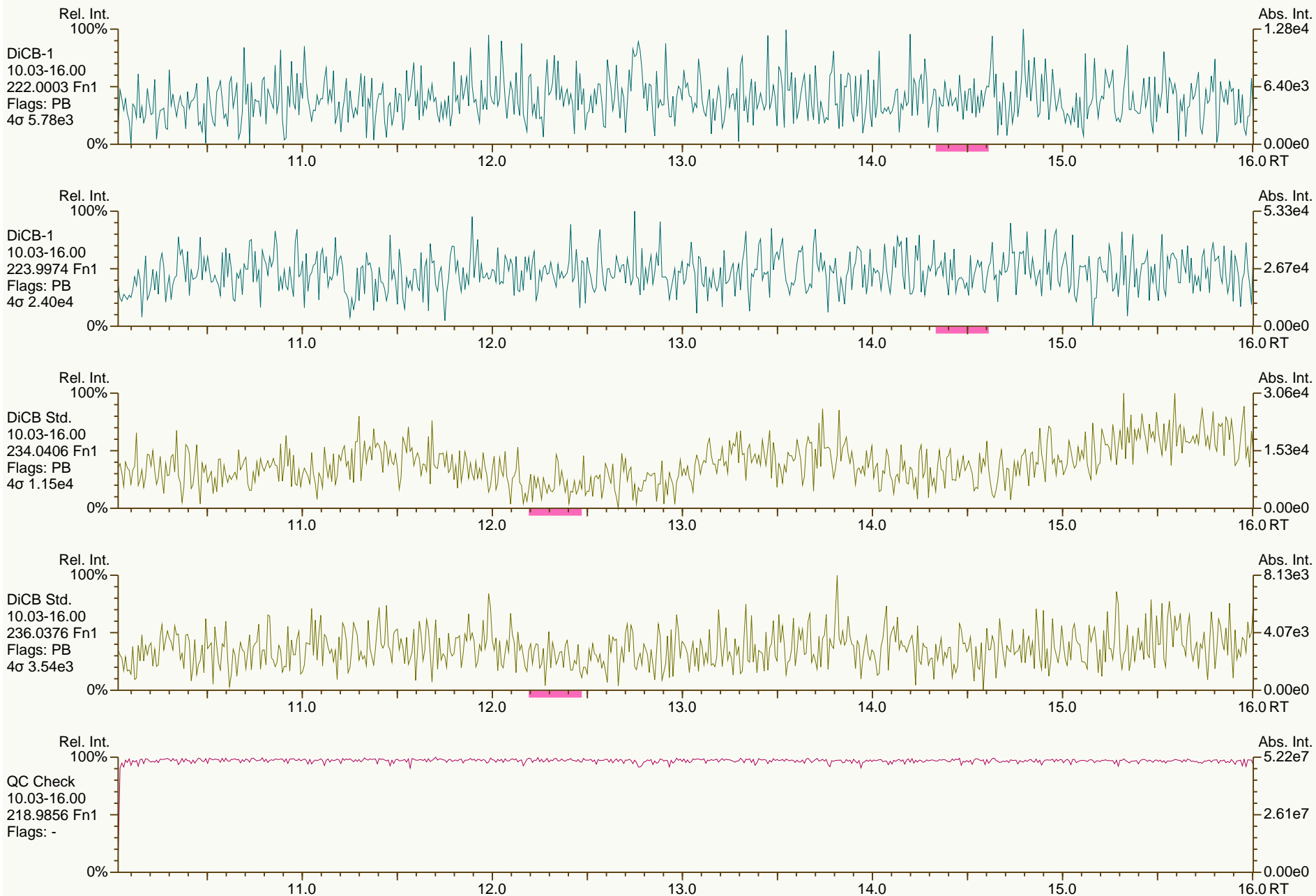




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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

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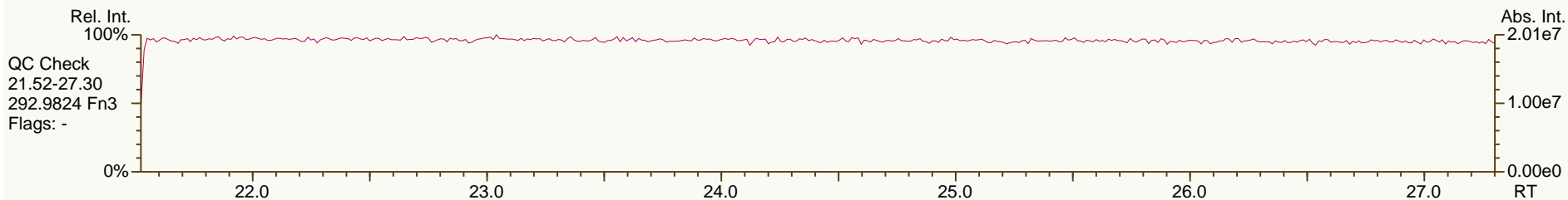
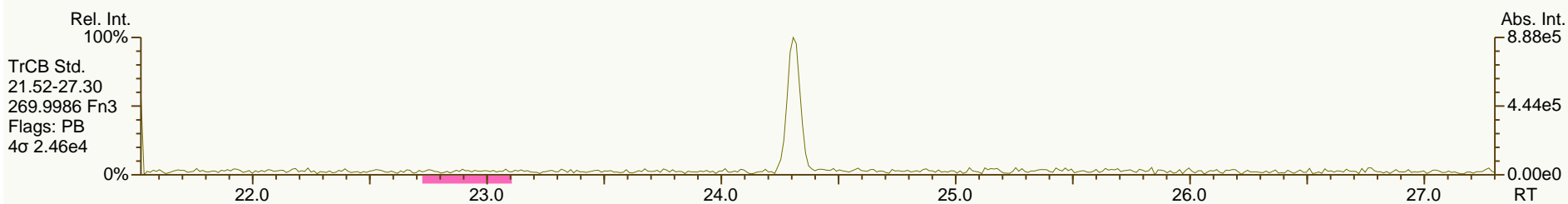
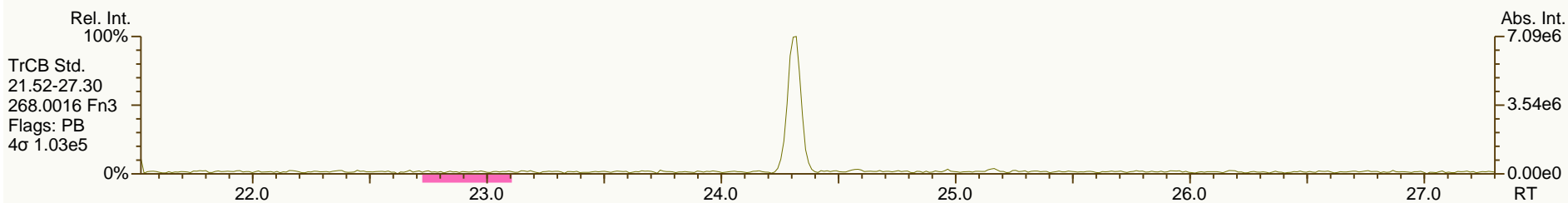
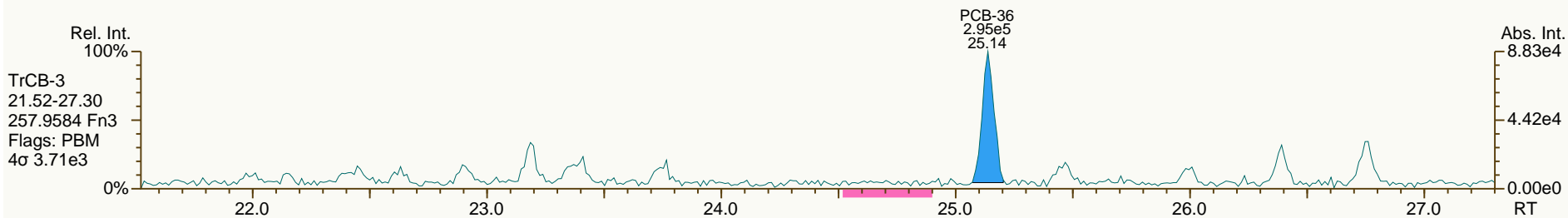
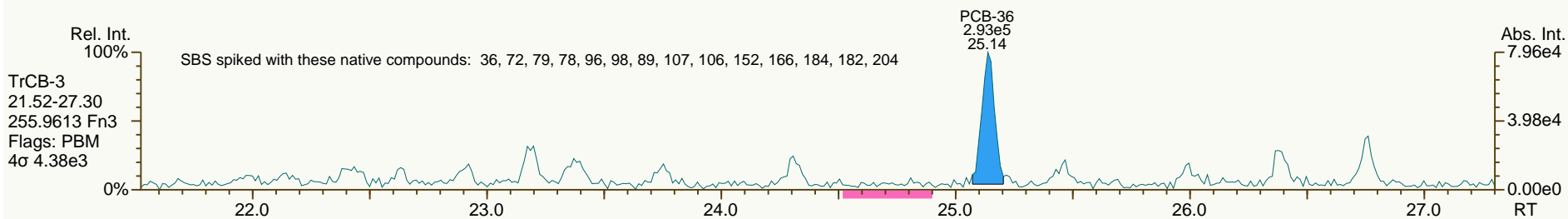
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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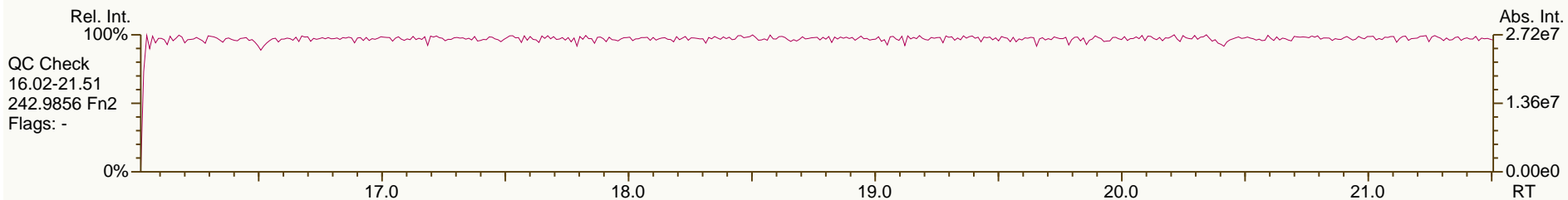
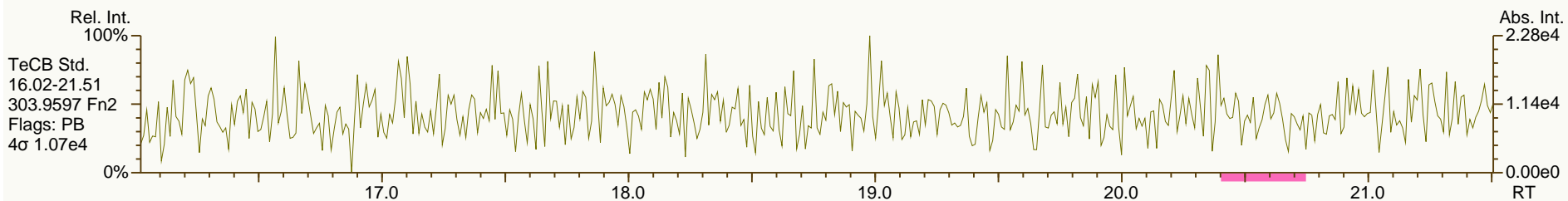
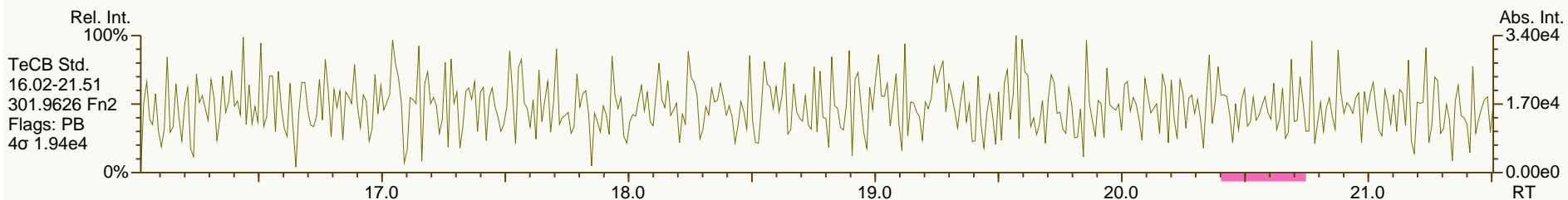
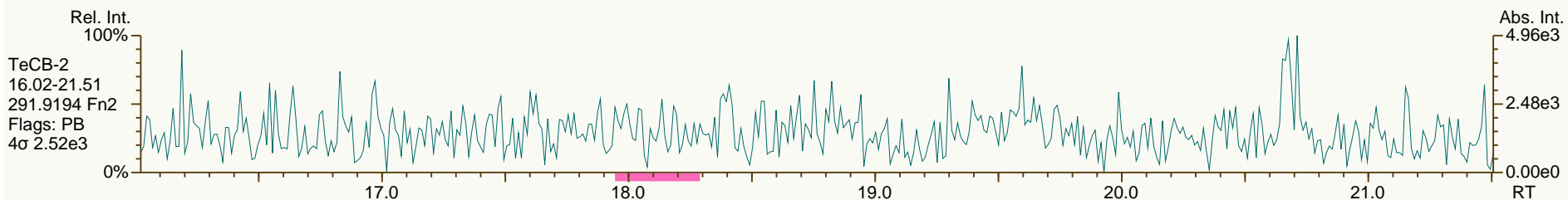
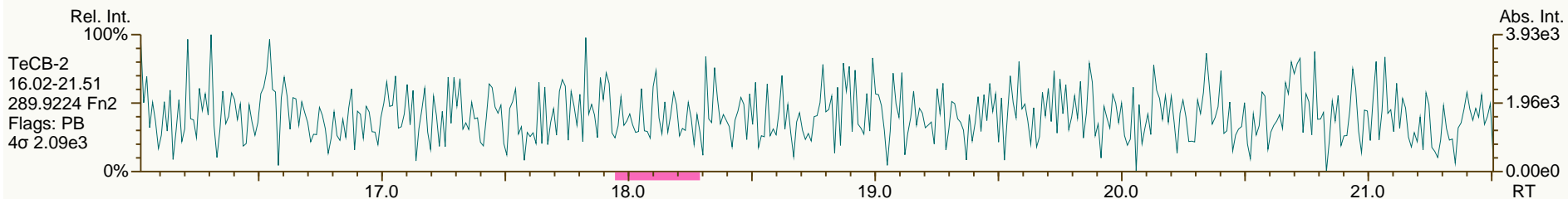
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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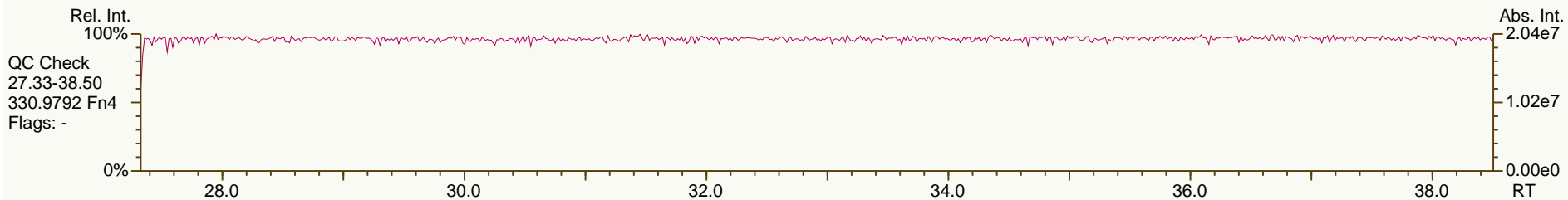
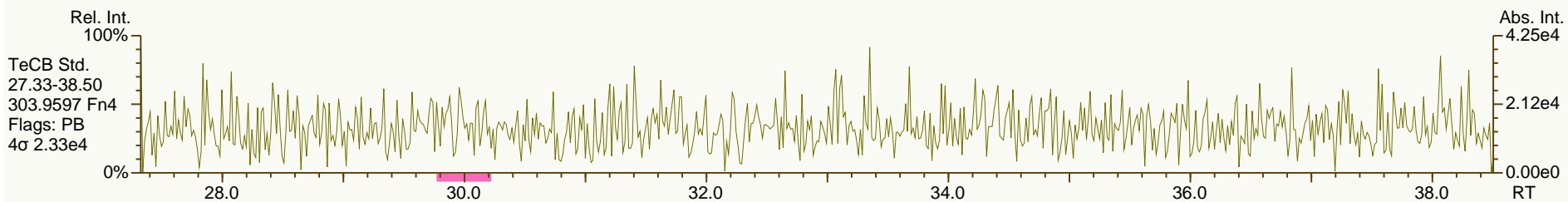
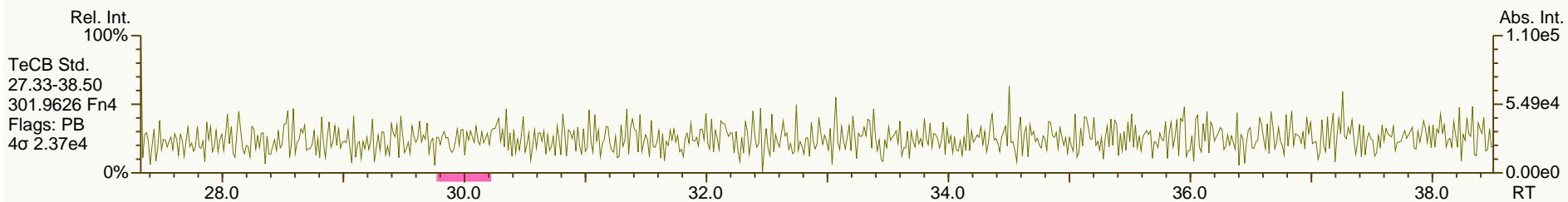
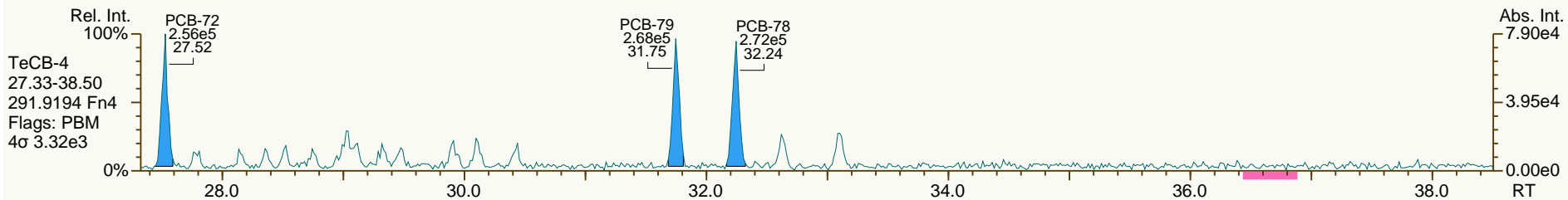
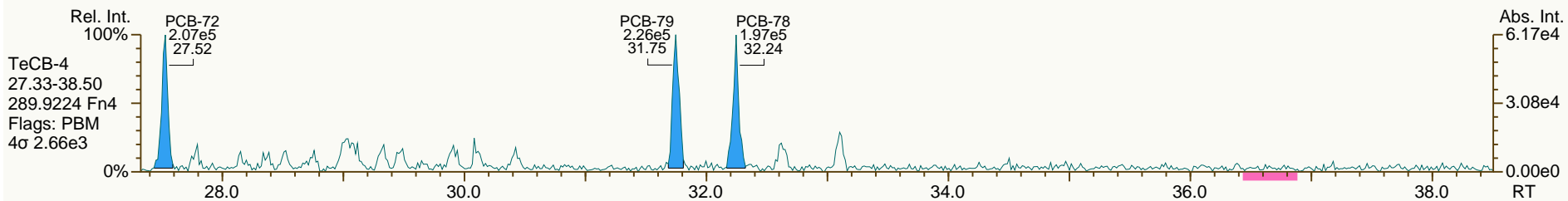
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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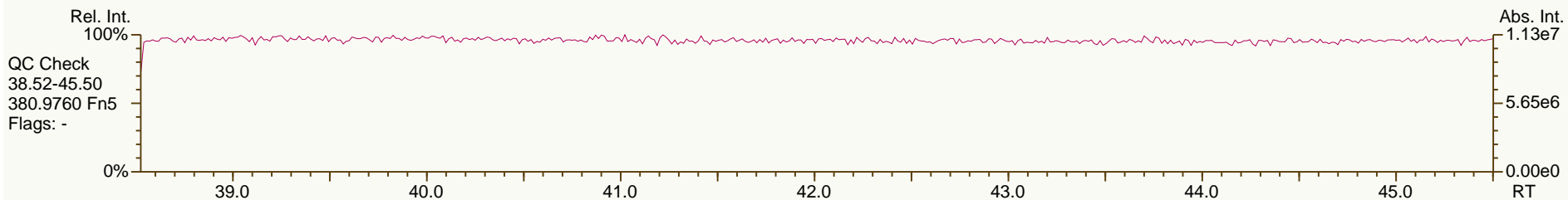
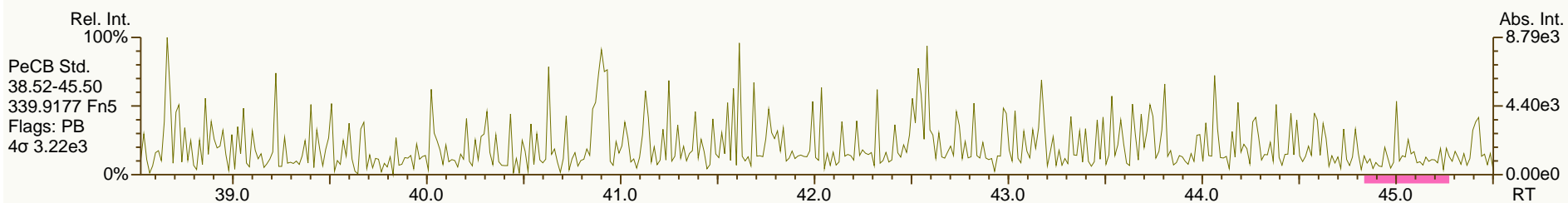
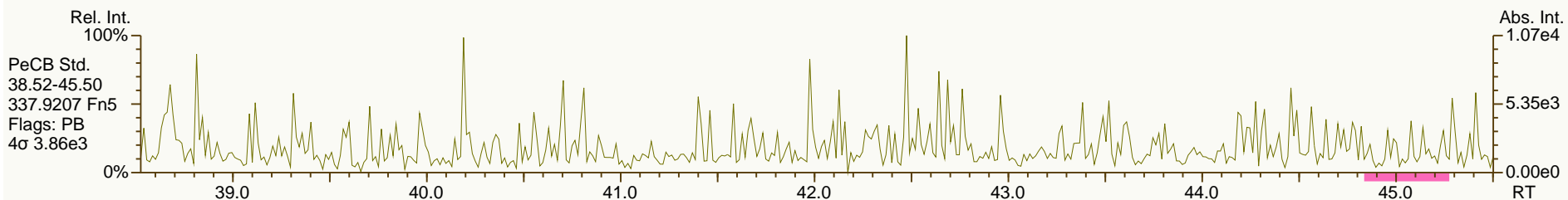
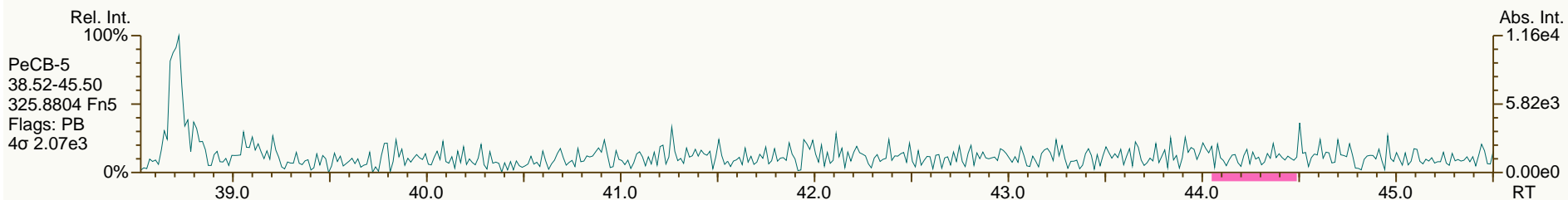
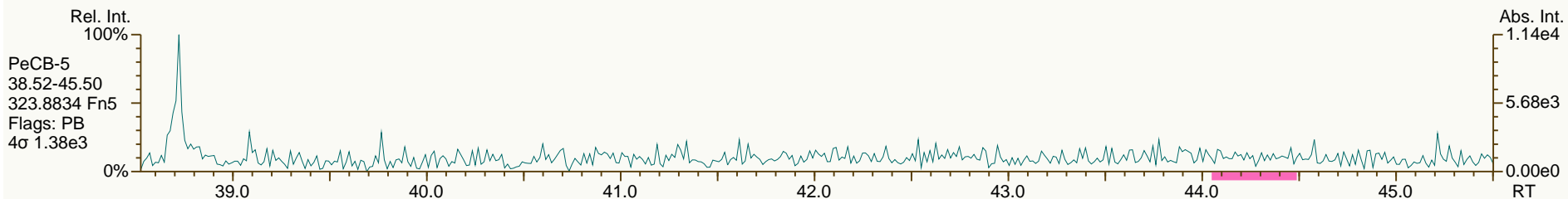
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User: LKB Datafile: 131220X07



SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

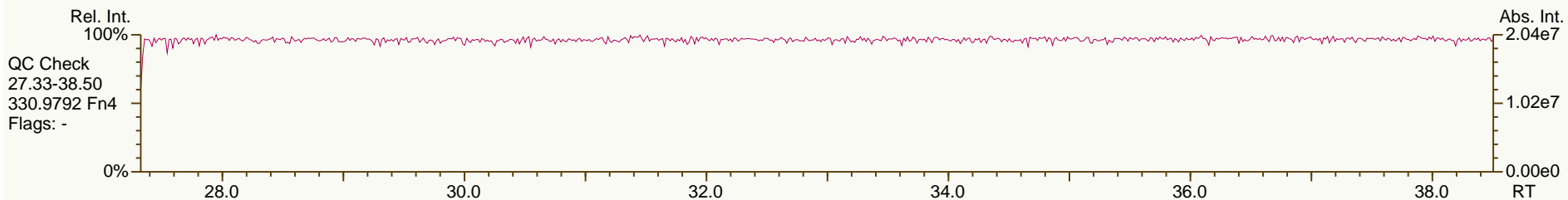
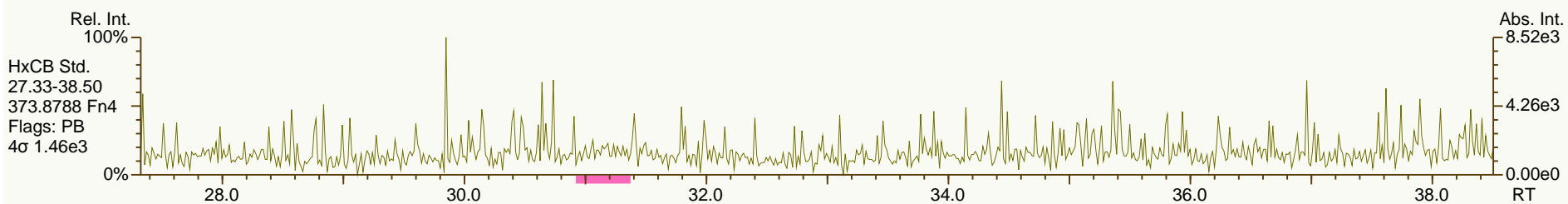
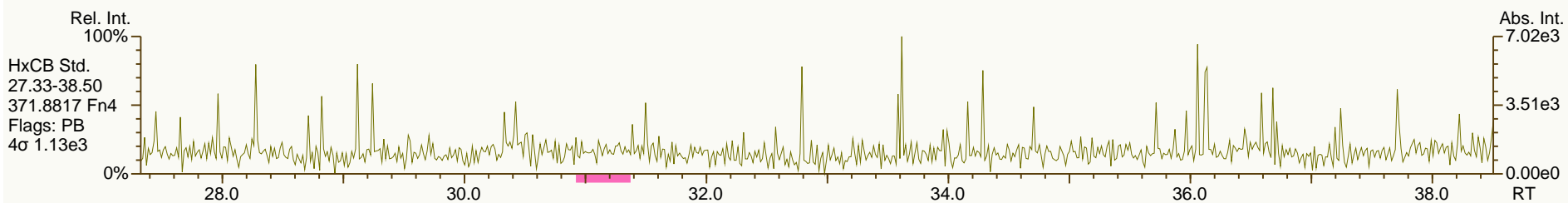
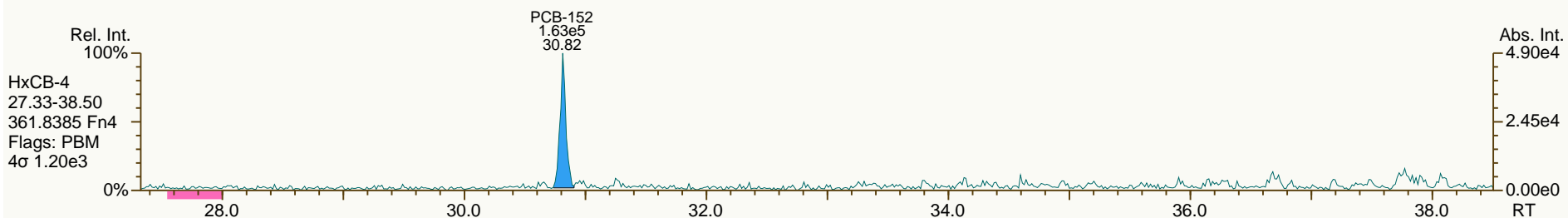
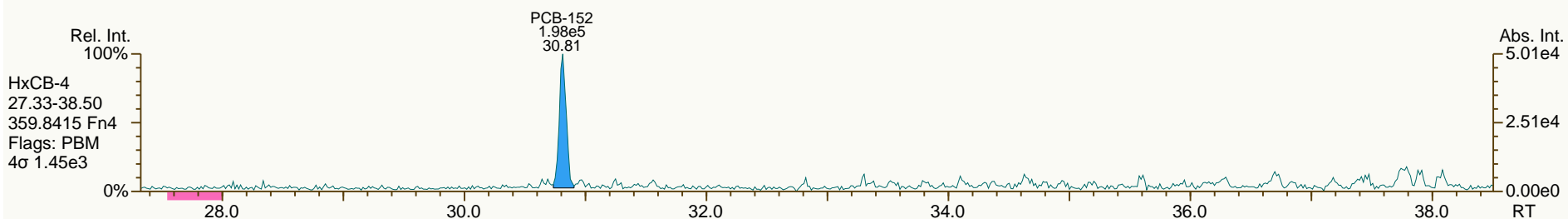
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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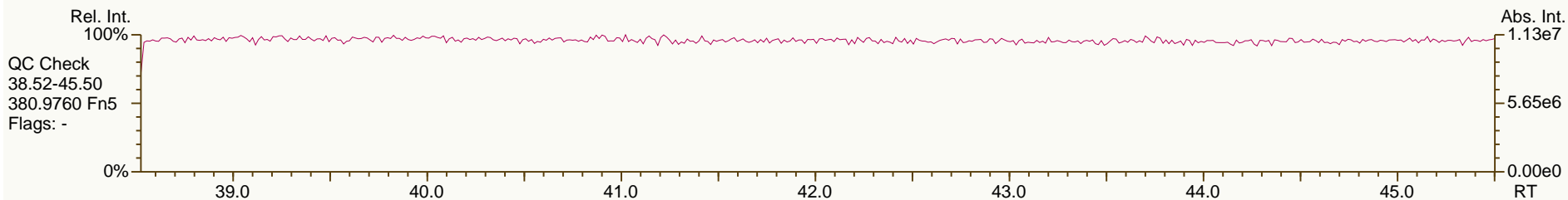
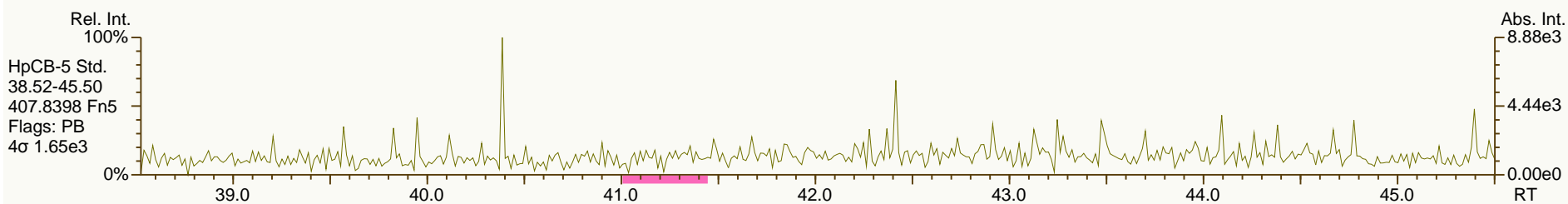
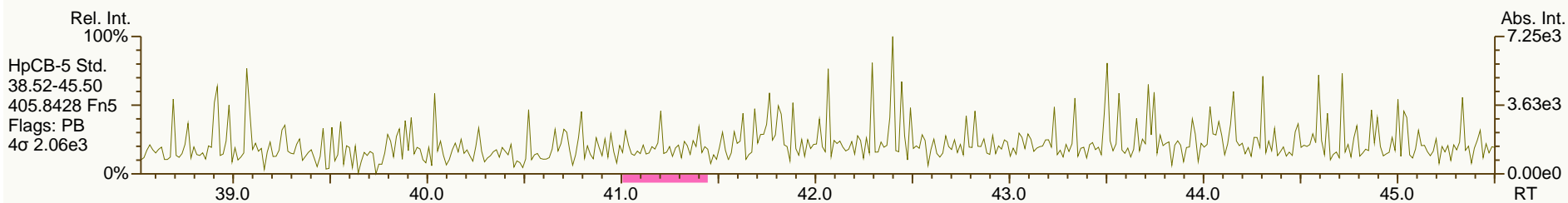
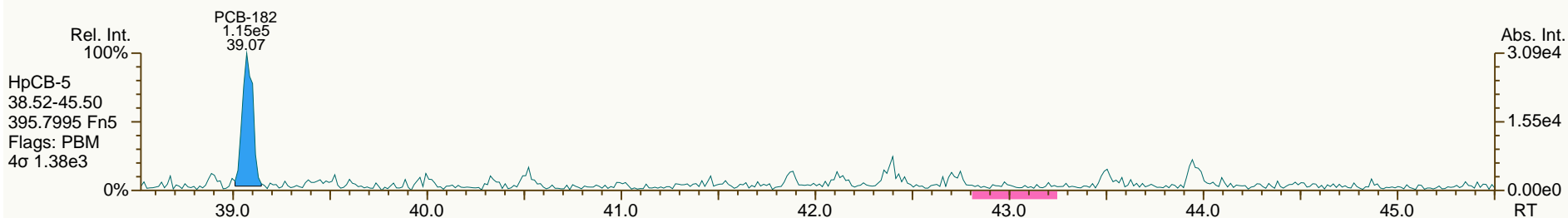
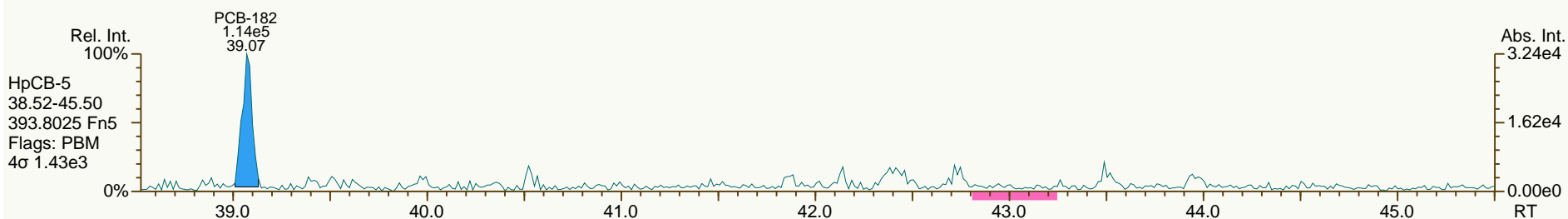
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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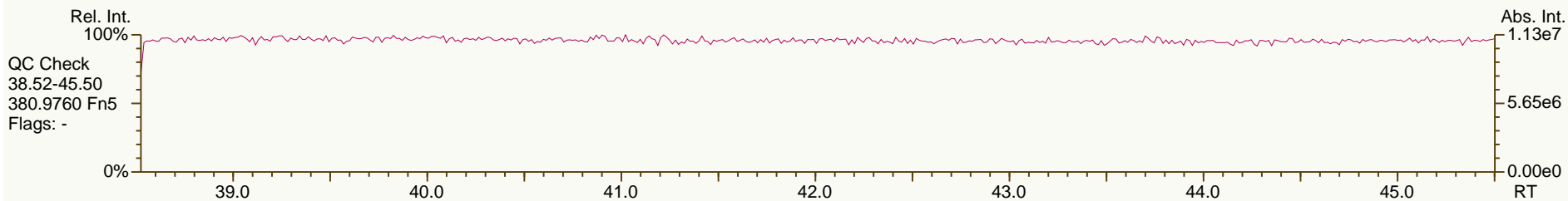
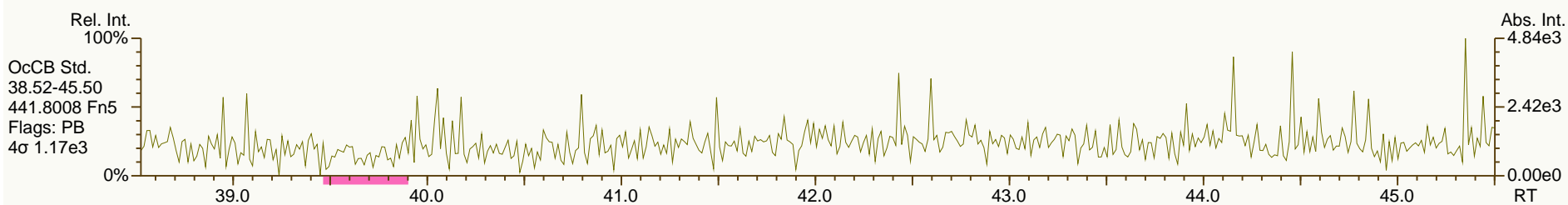
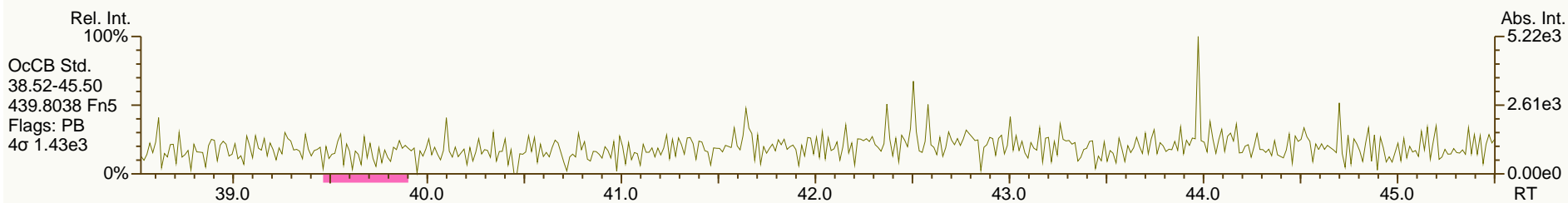
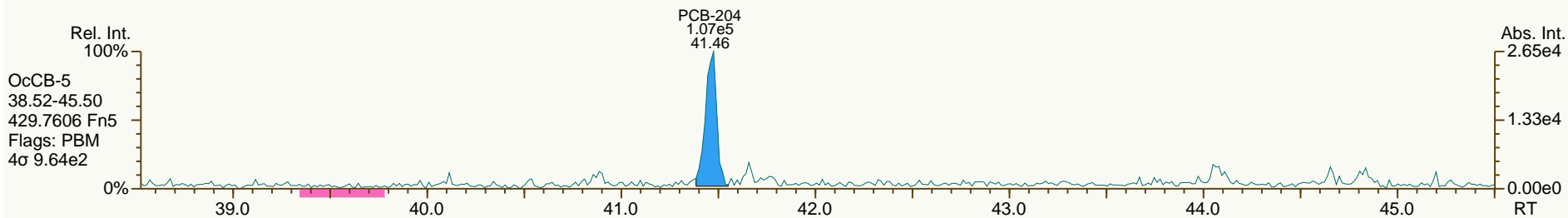
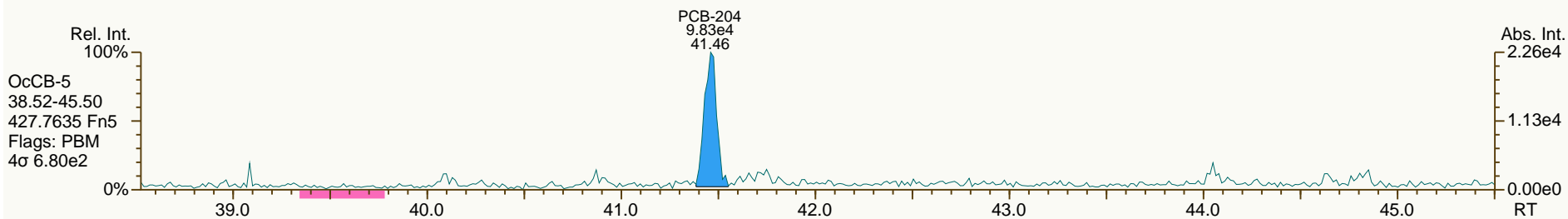
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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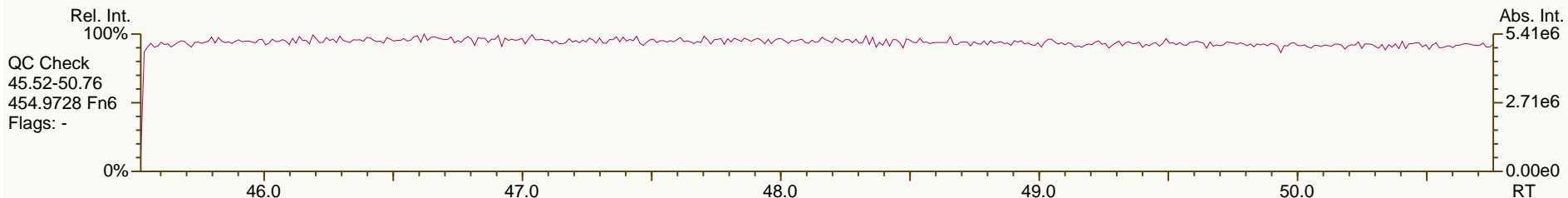
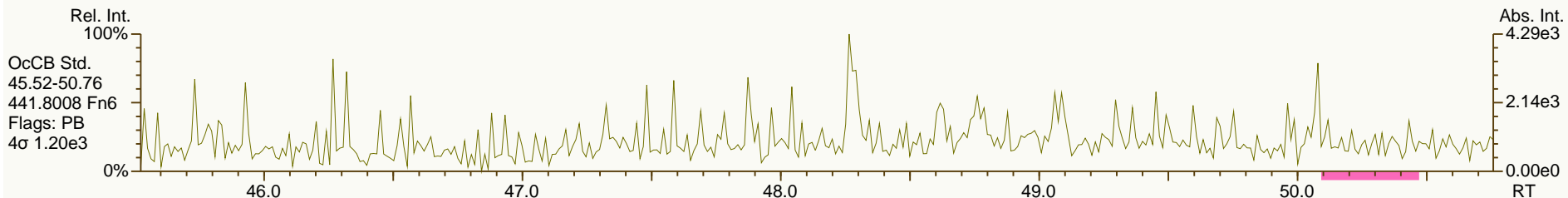
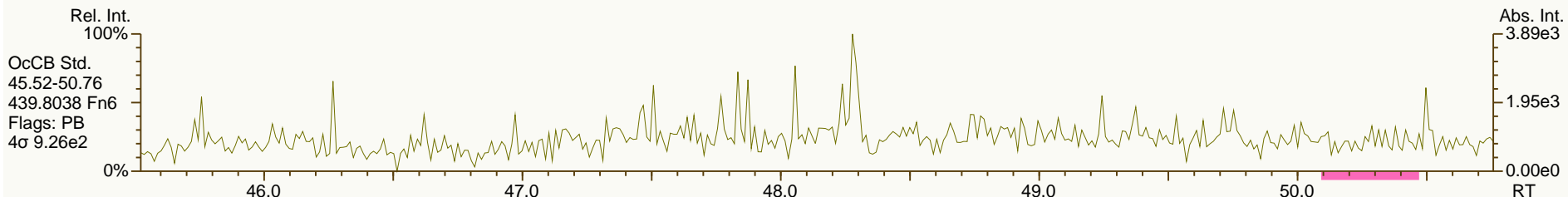
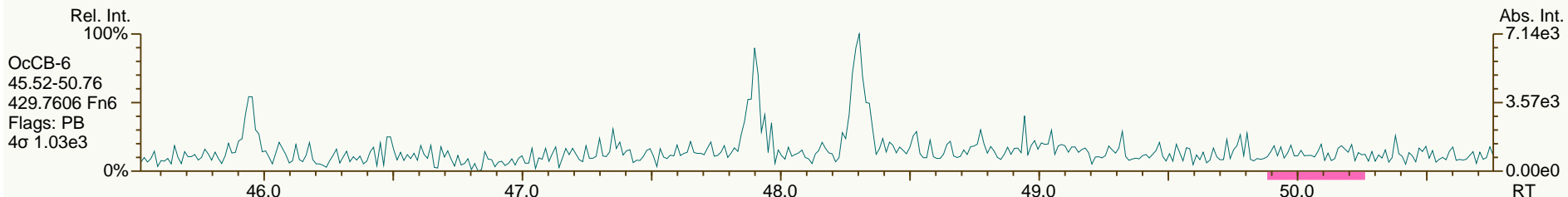
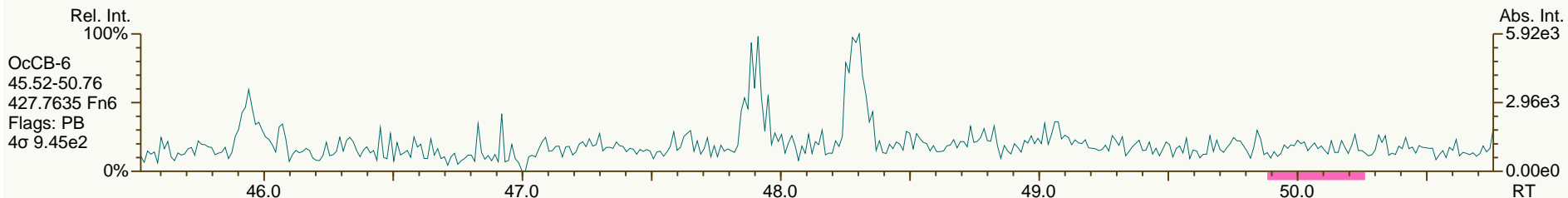




SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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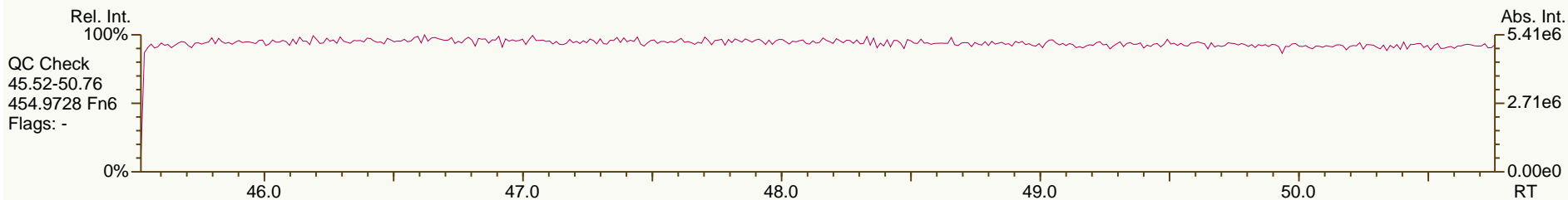
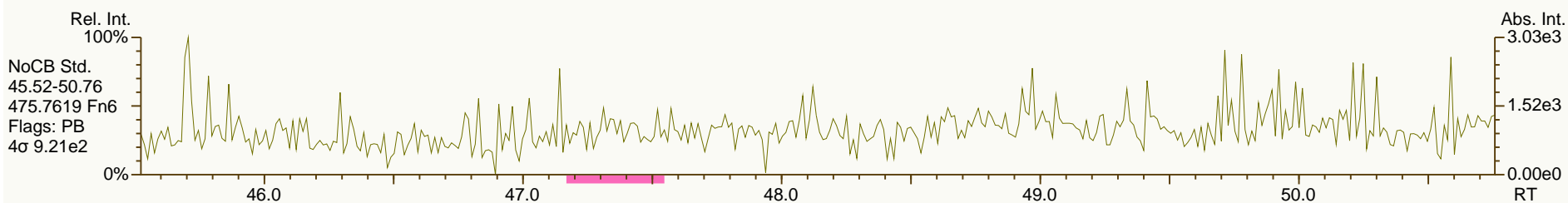
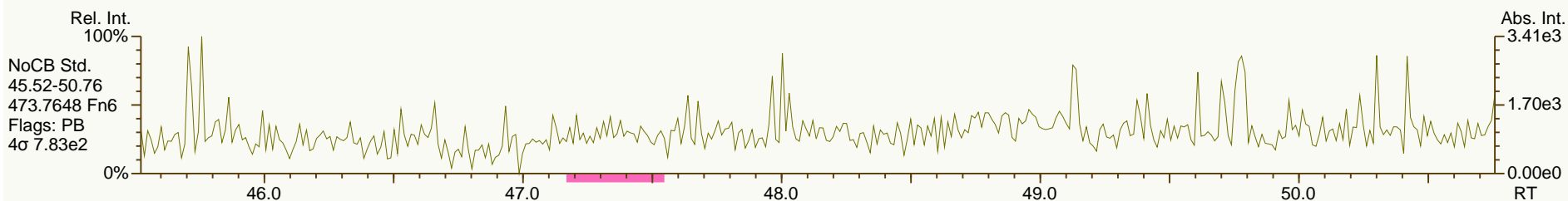
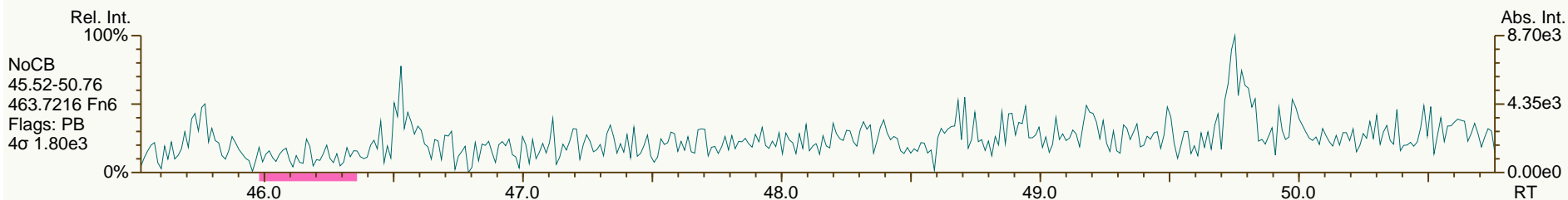
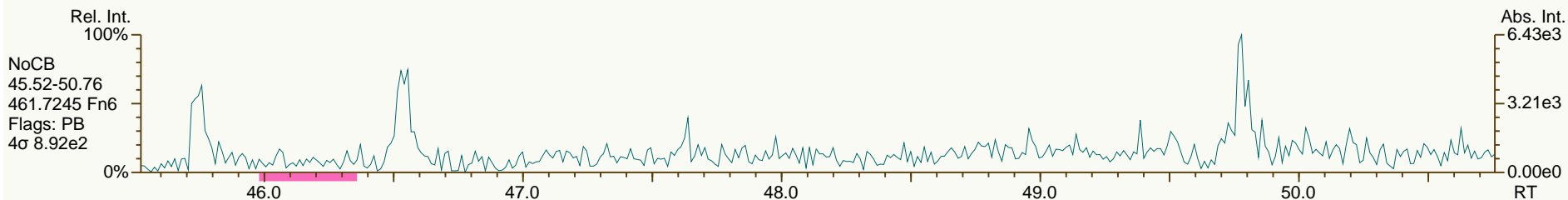
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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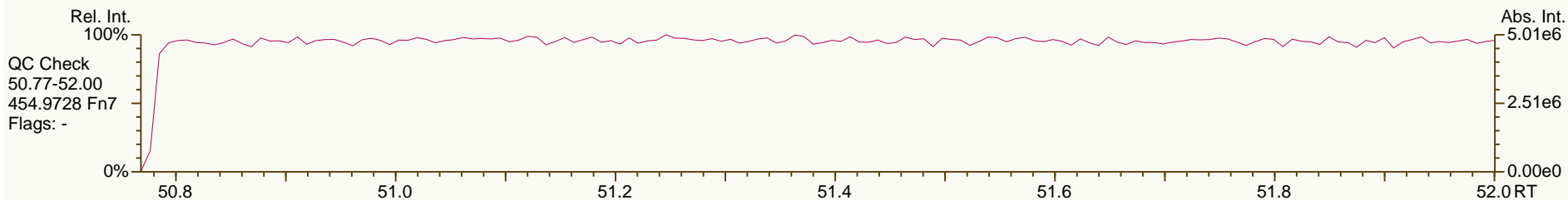
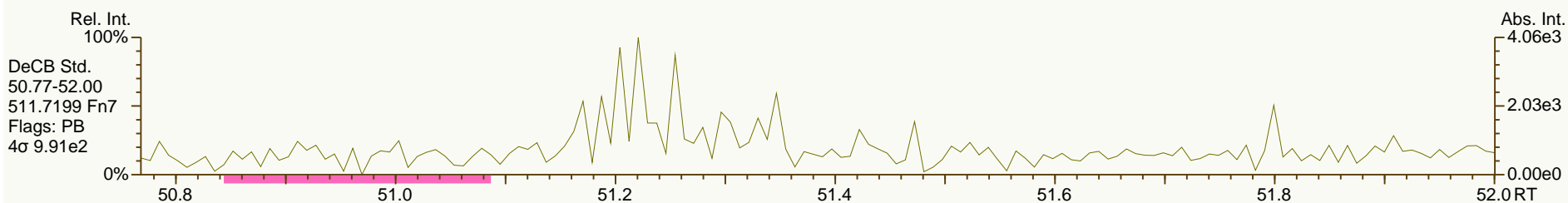
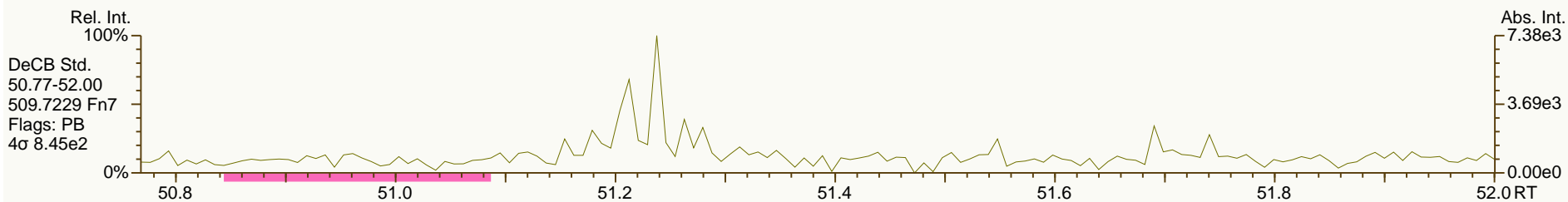
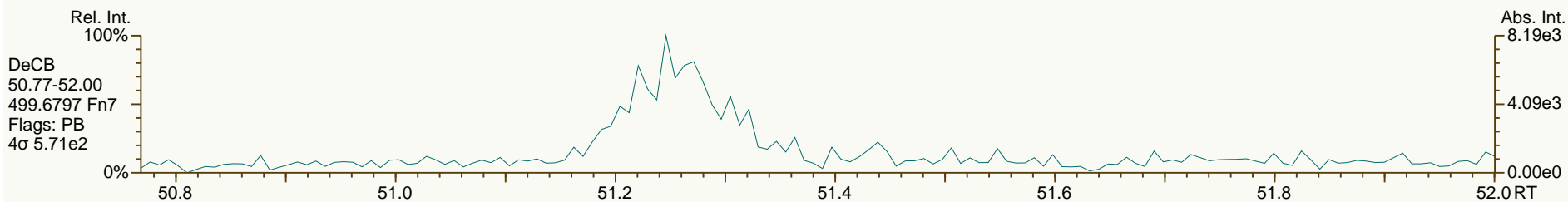
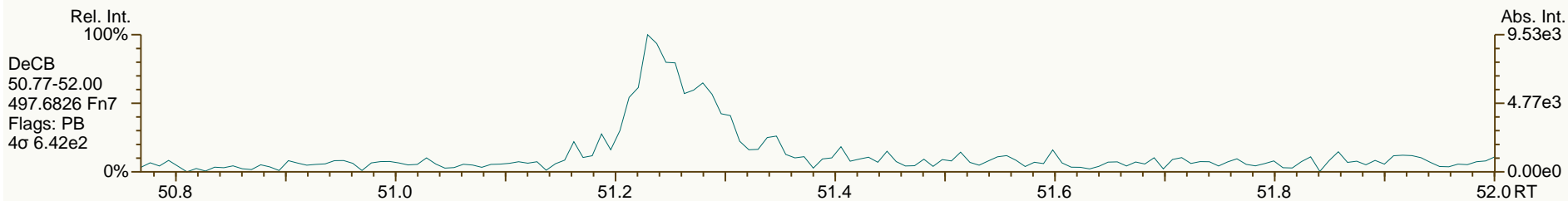
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

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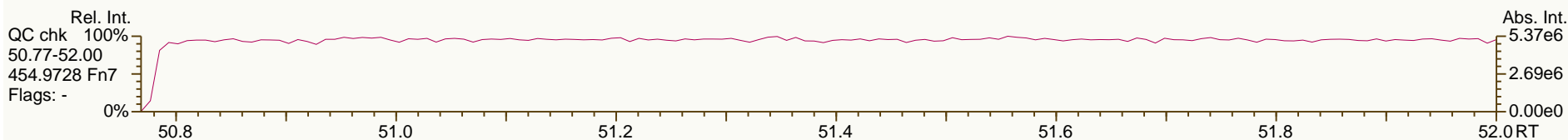
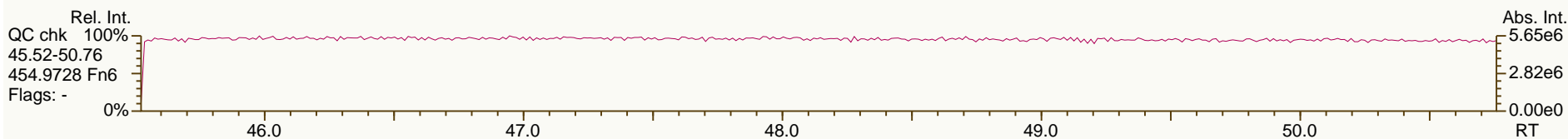
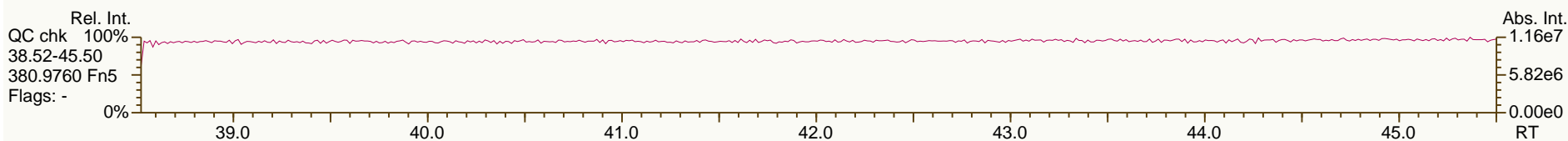
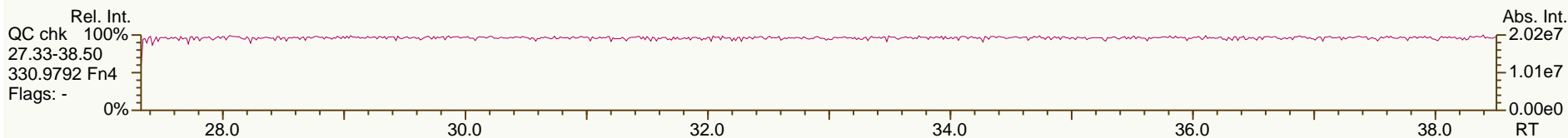
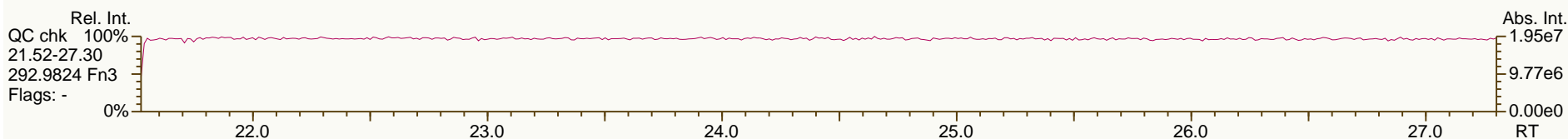
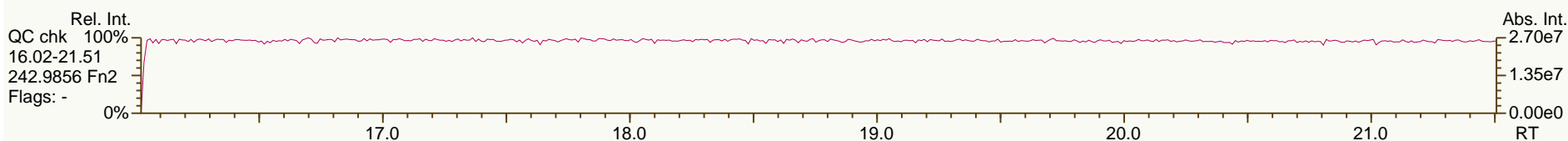
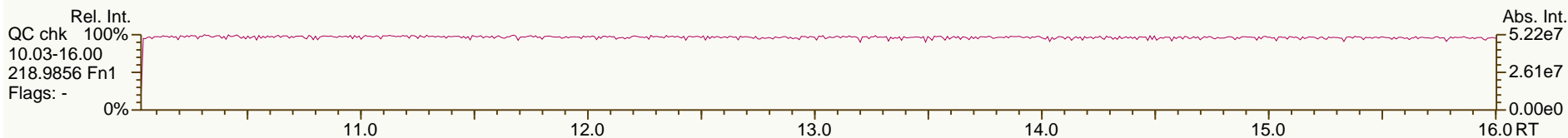
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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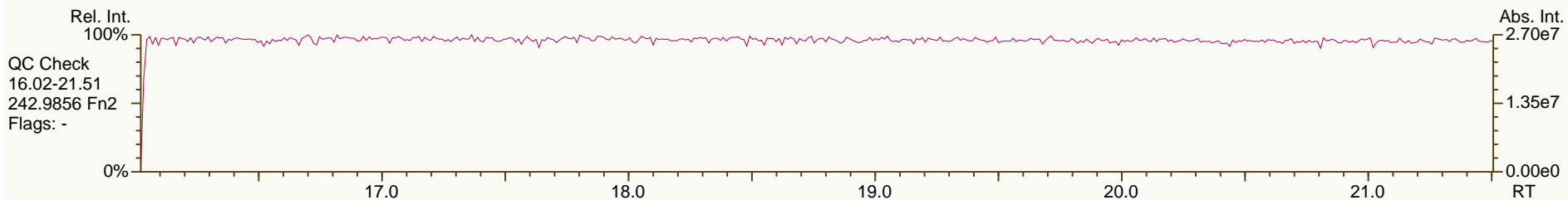
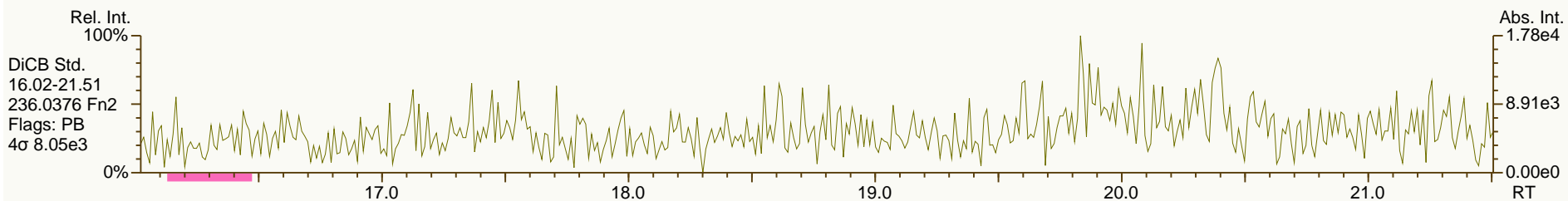
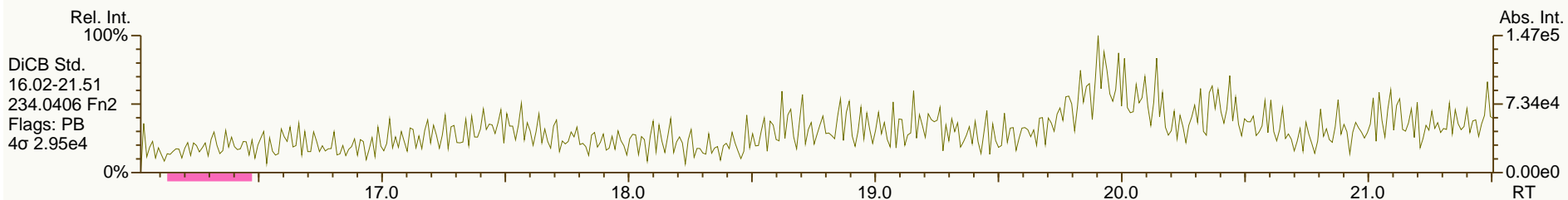
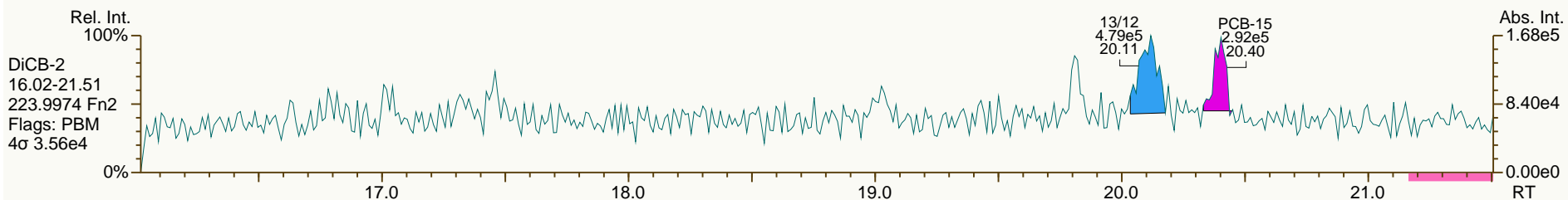
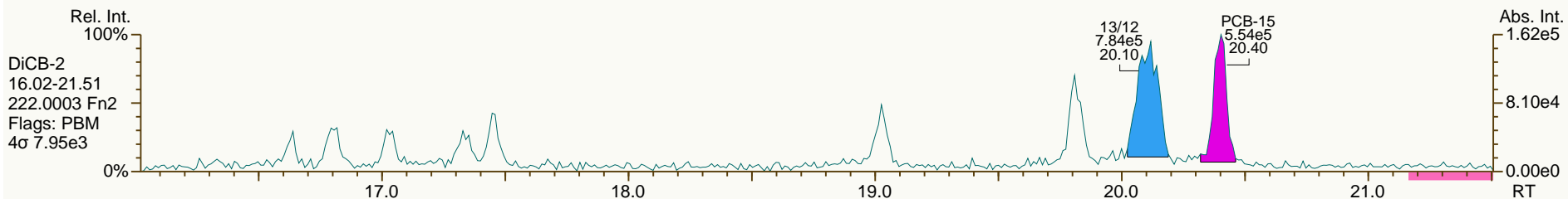
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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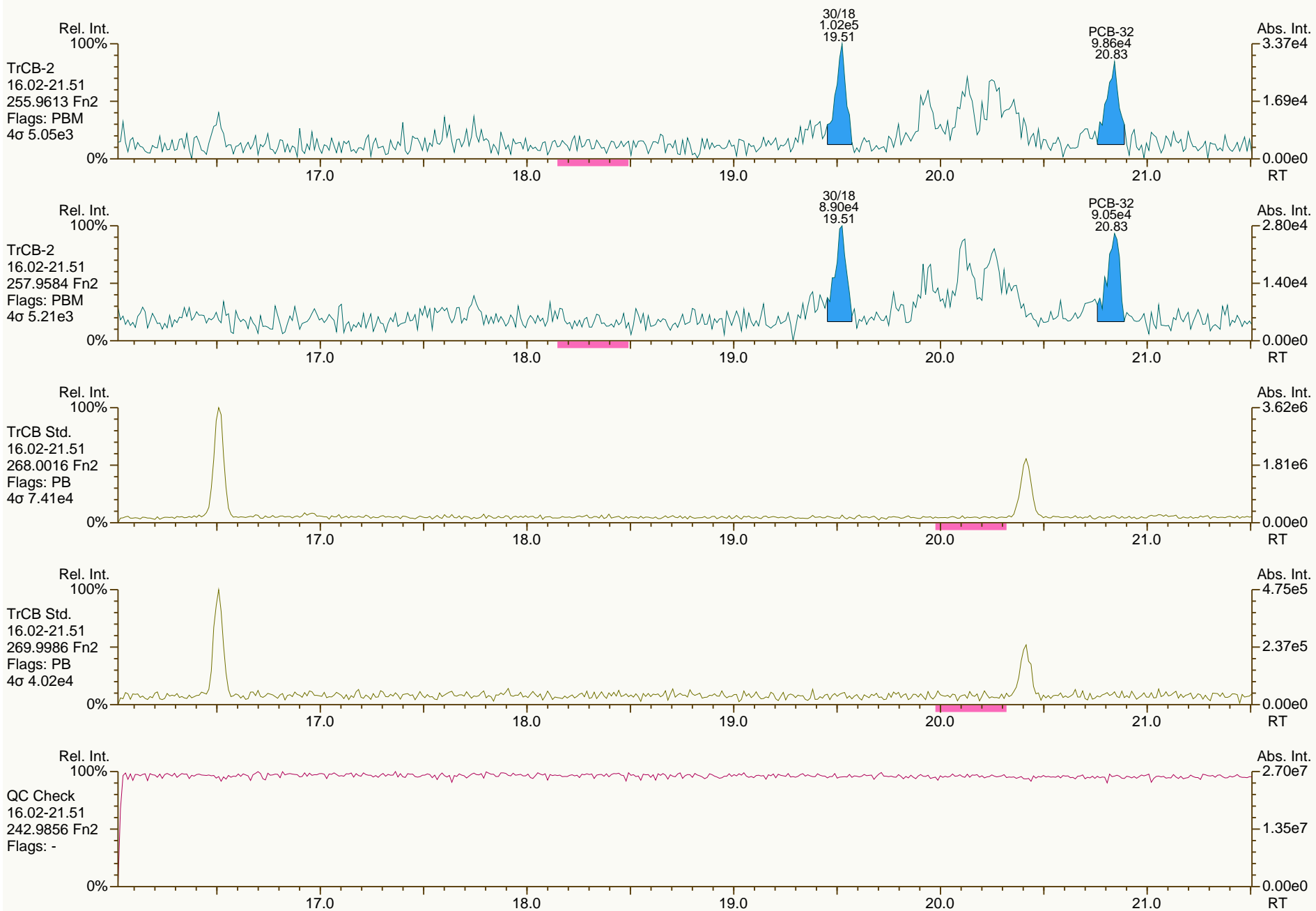
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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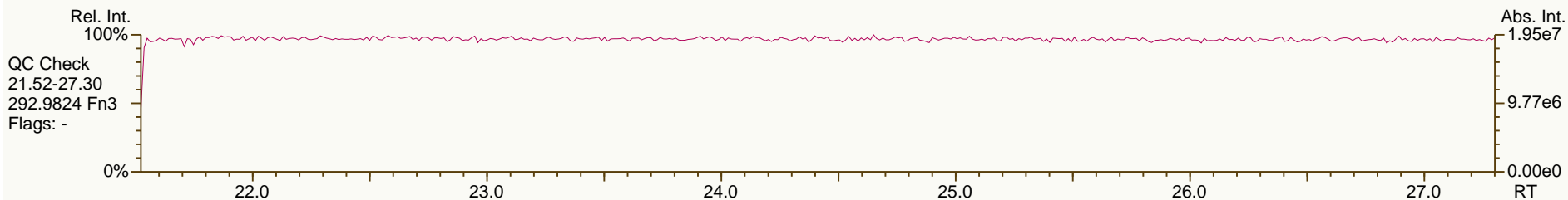
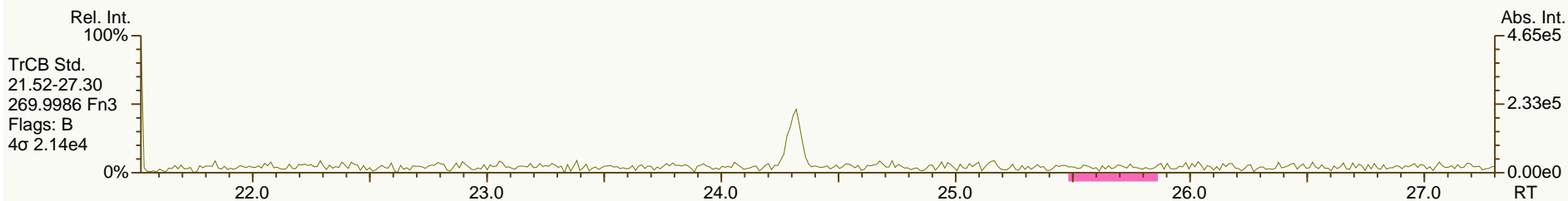
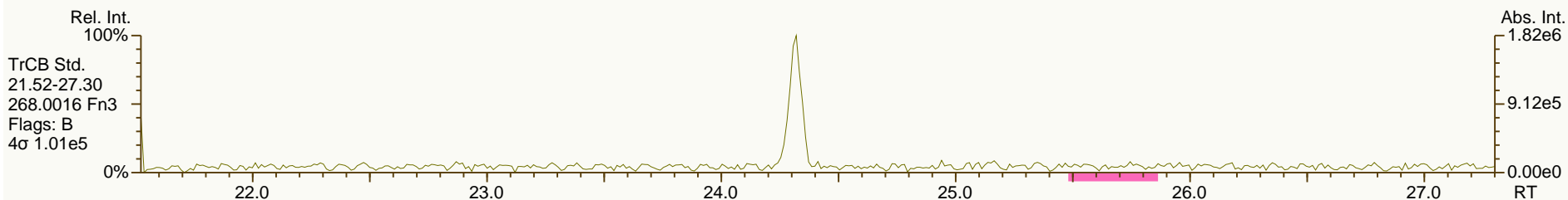
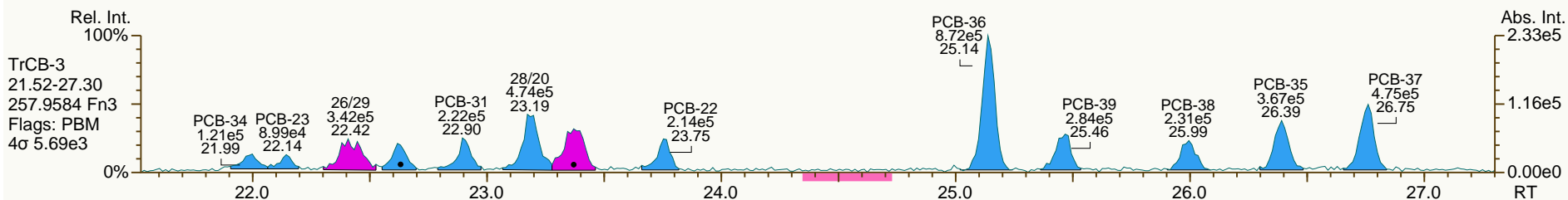
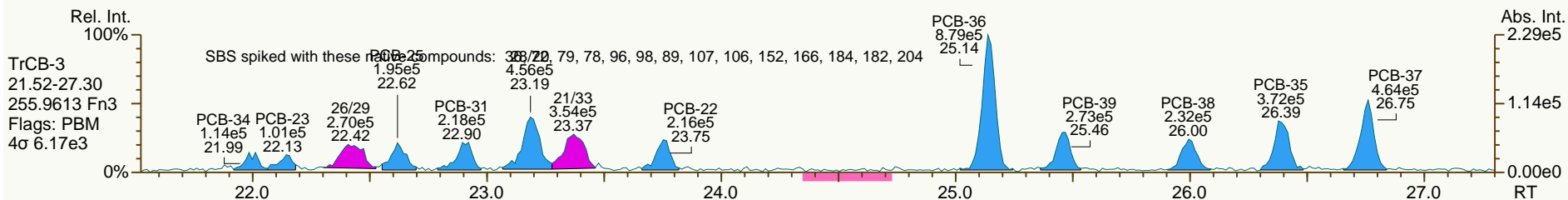




SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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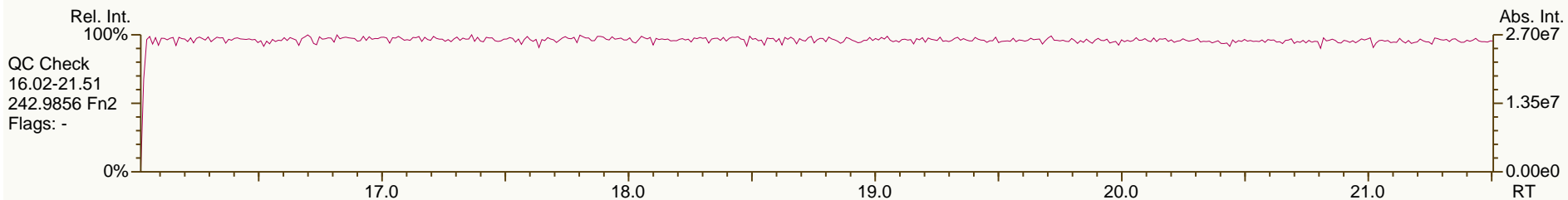
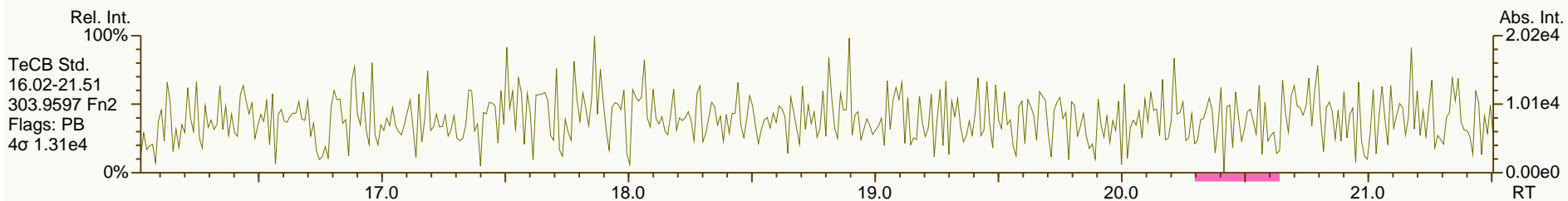
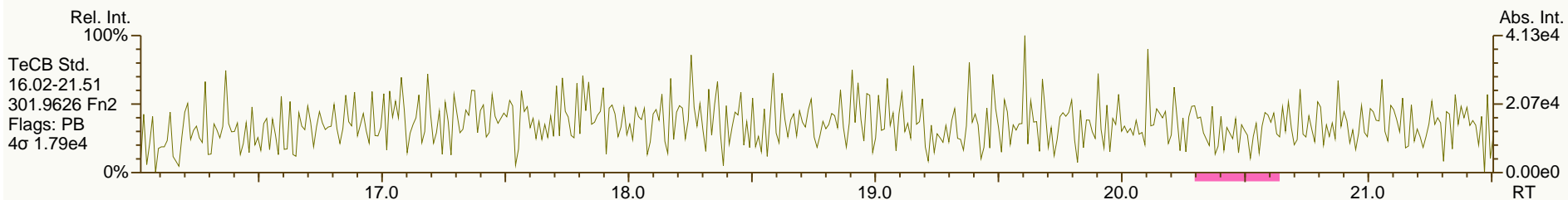
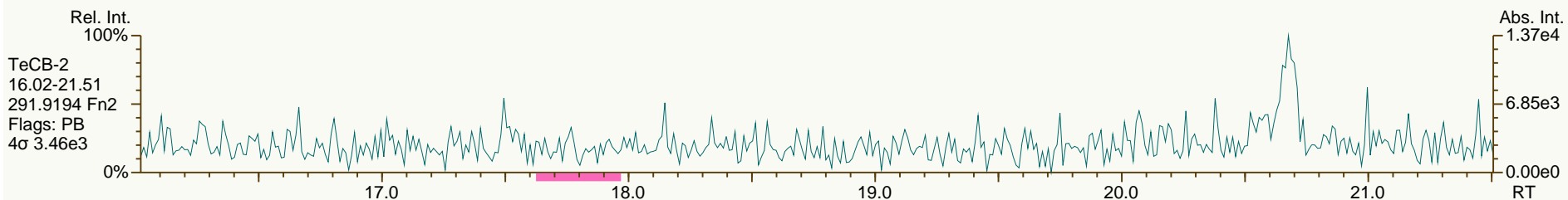
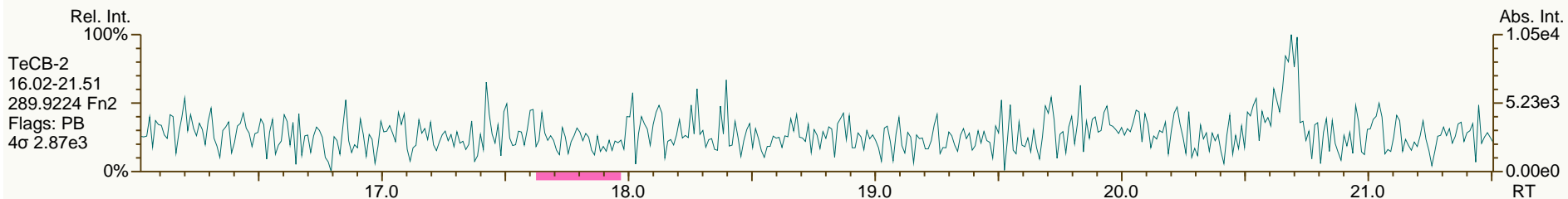
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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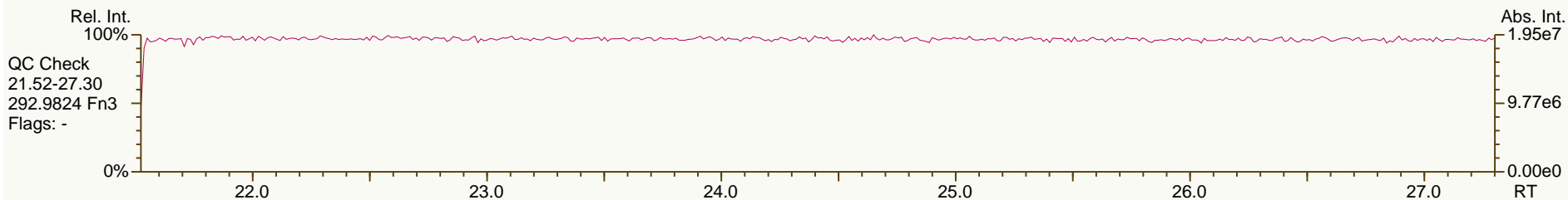
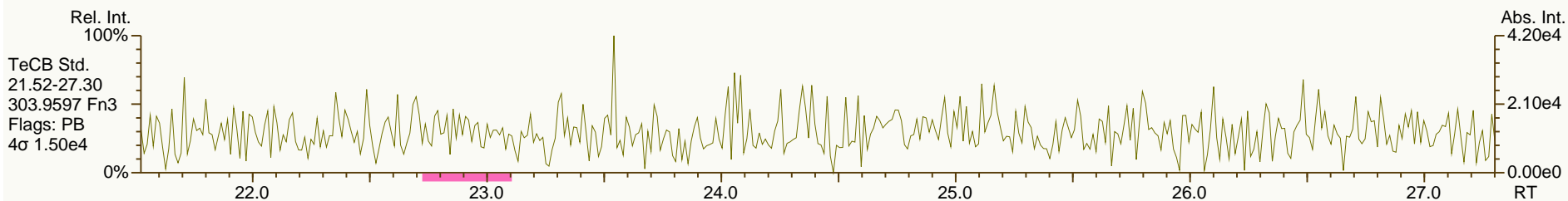
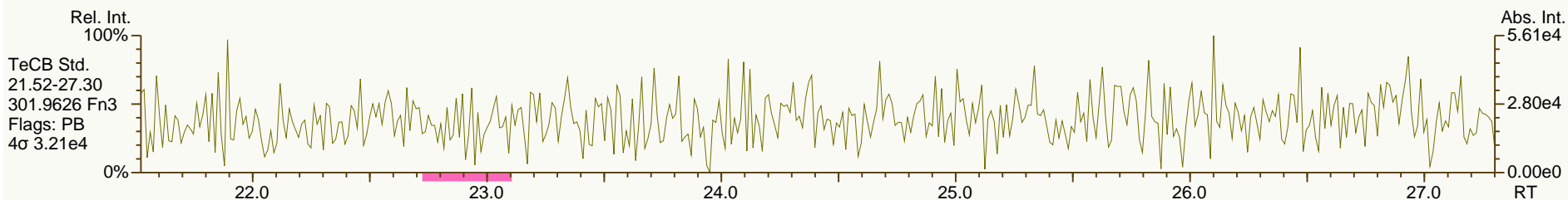
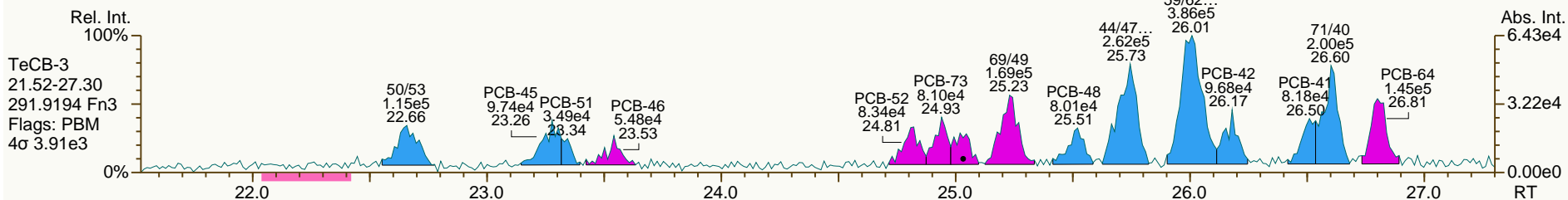
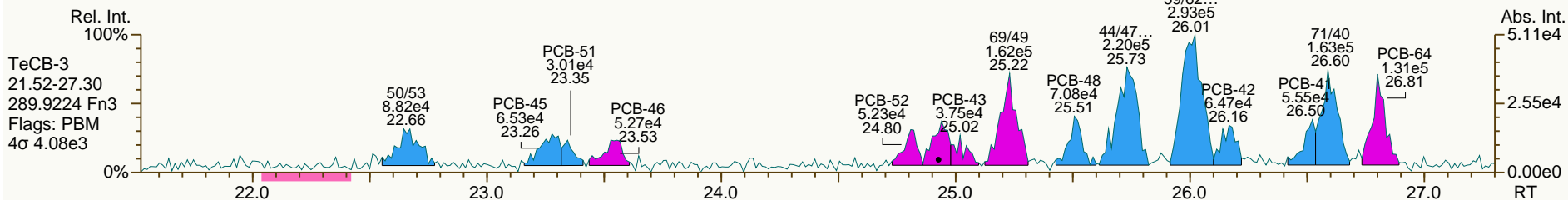
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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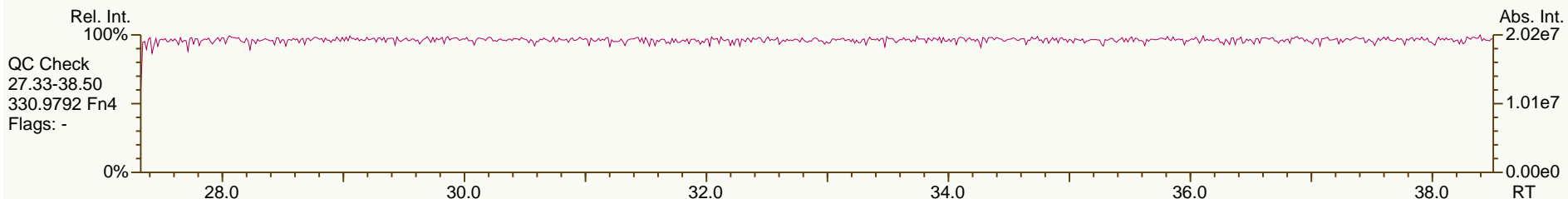
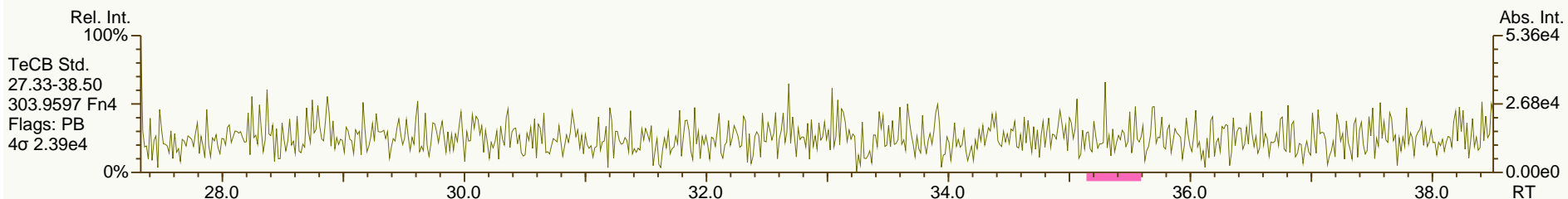
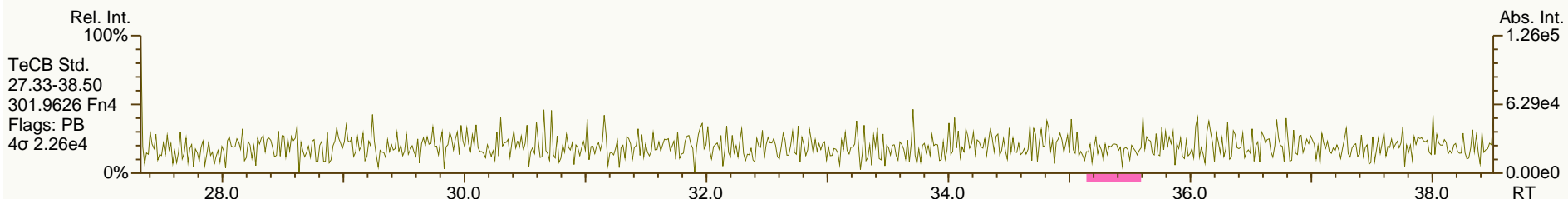
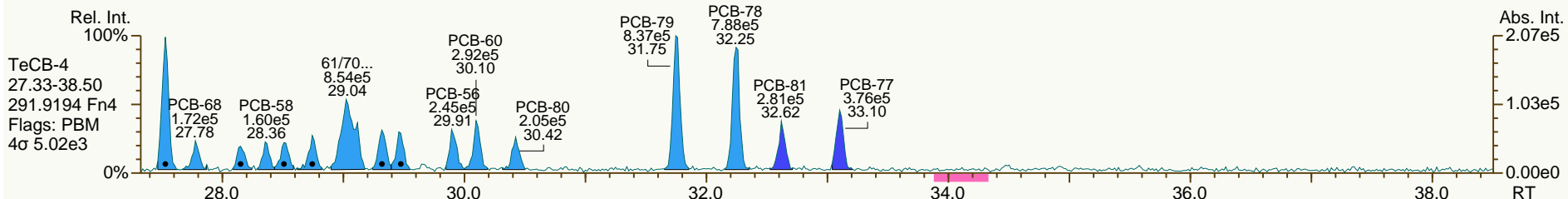
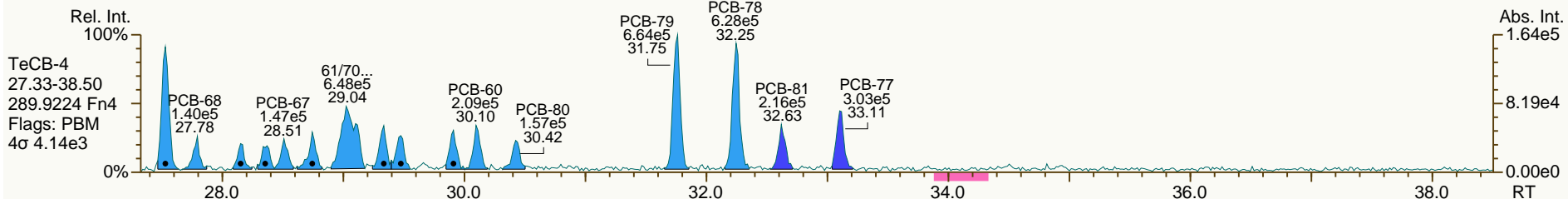
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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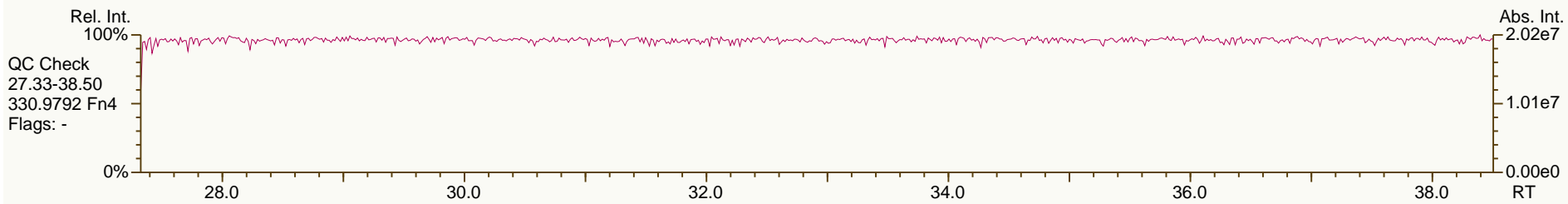
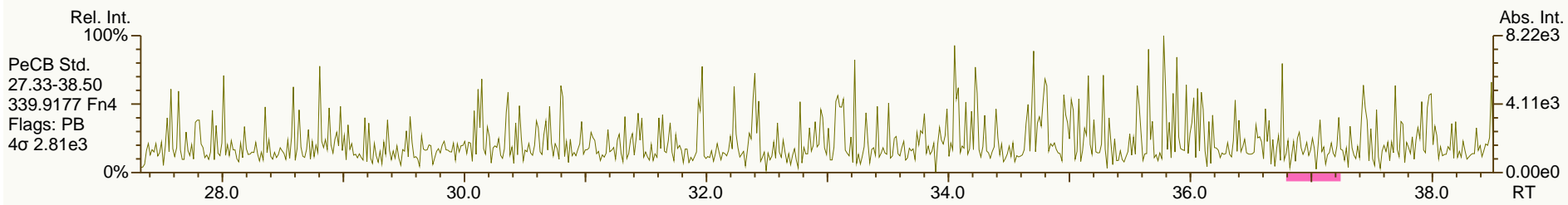
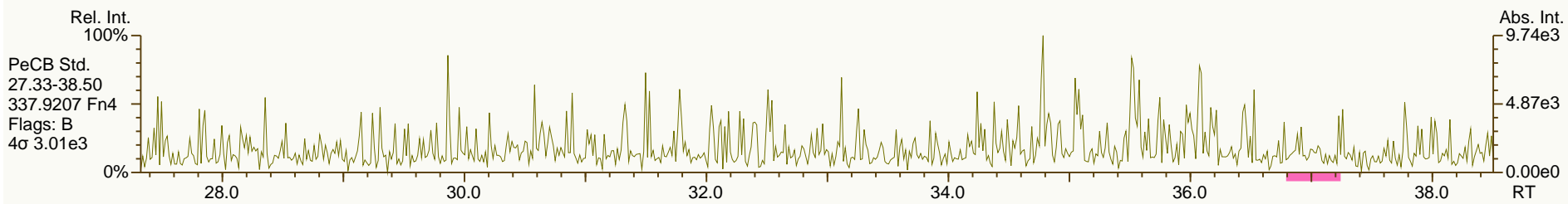
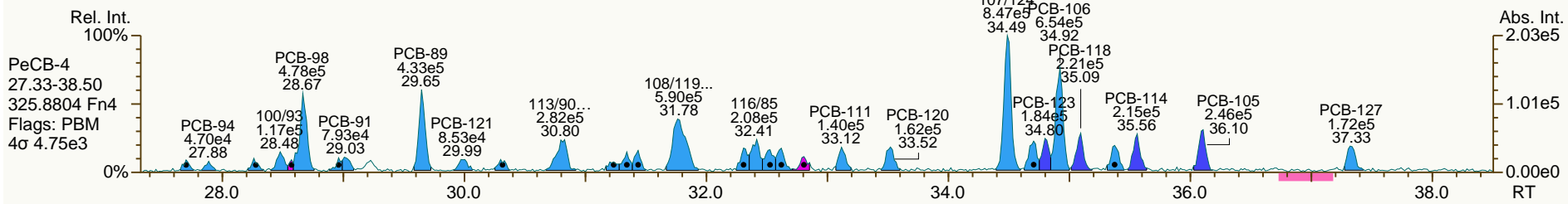
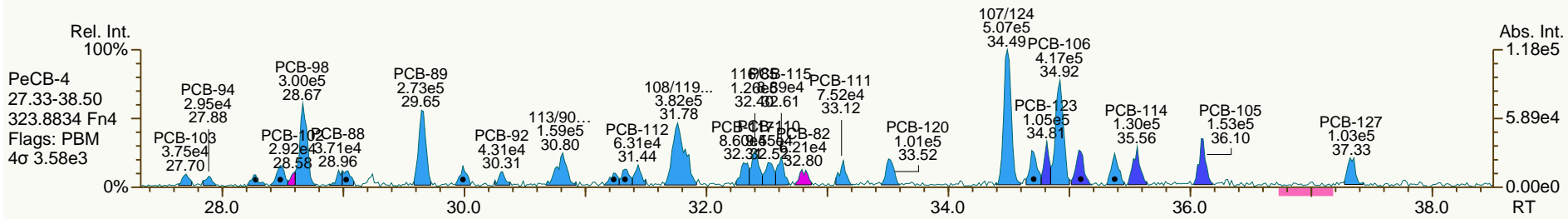
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

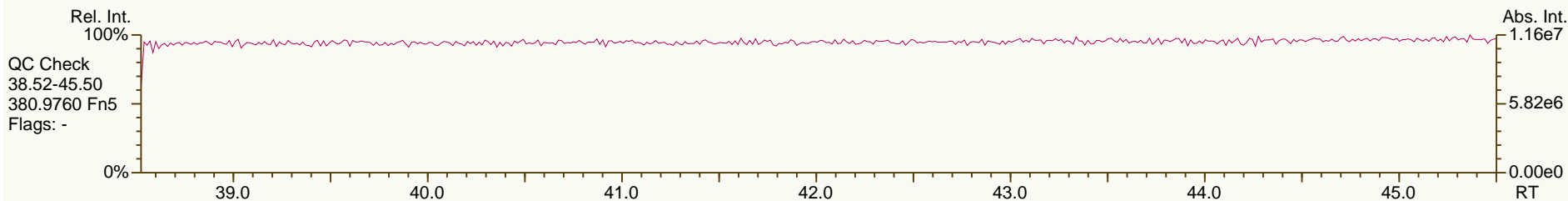
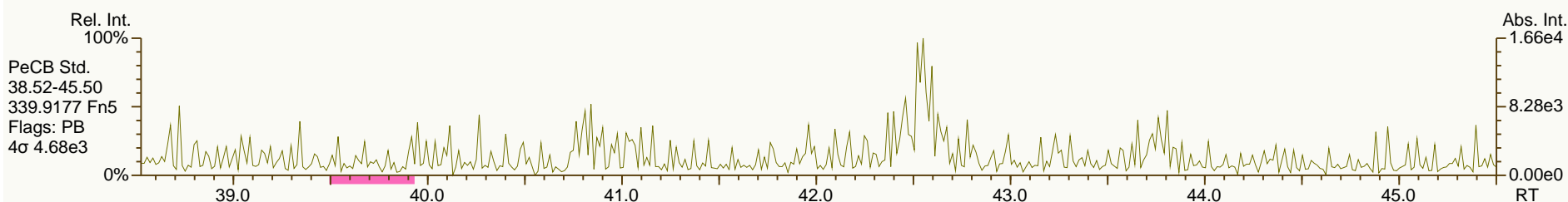
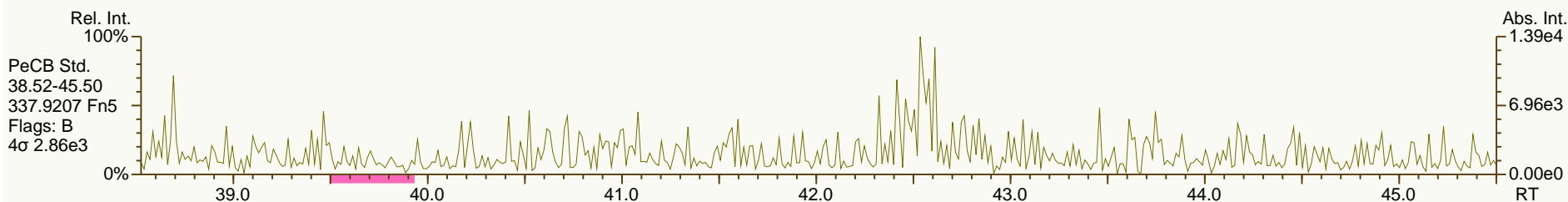
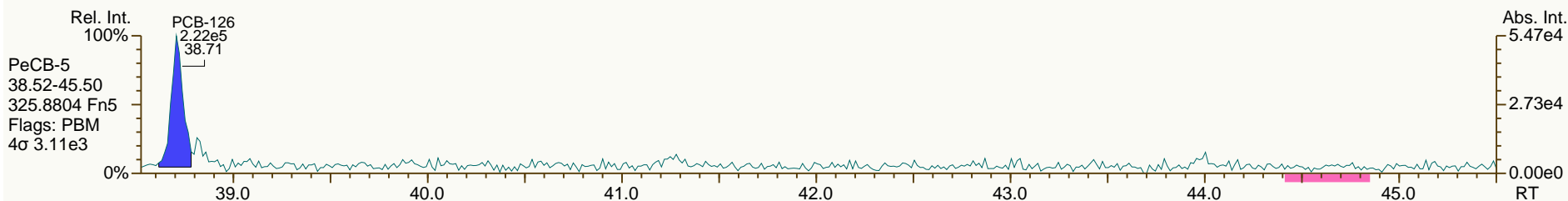
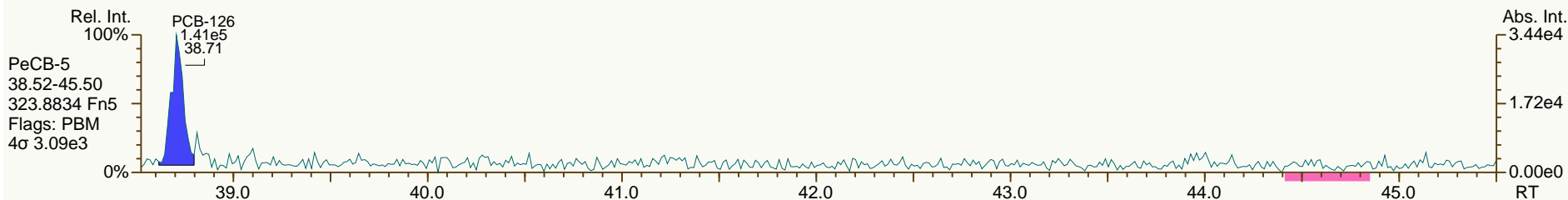
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User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

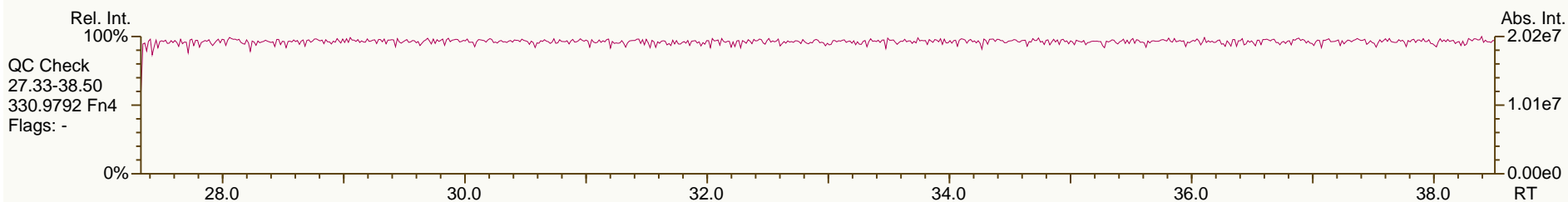
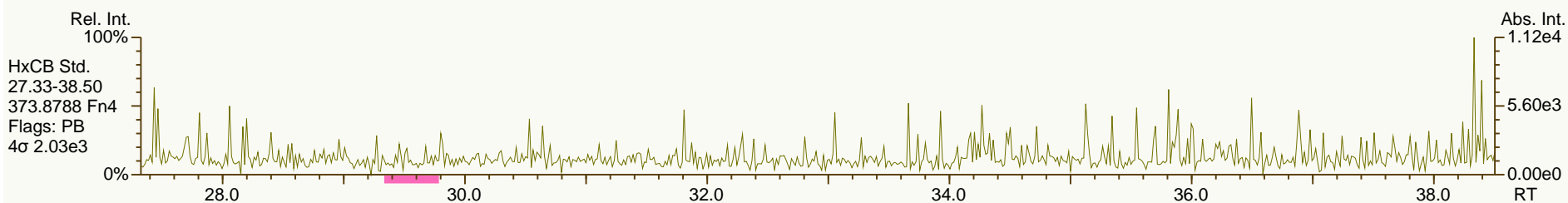
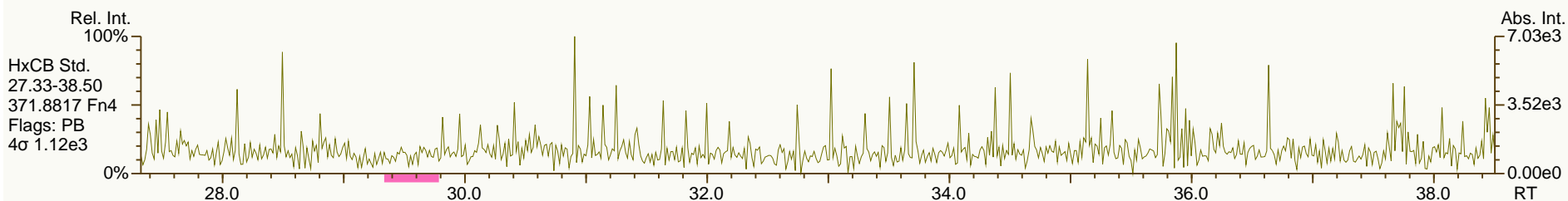
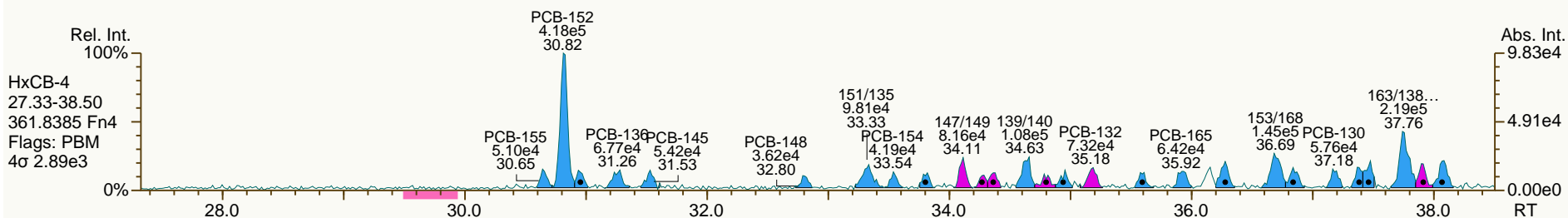
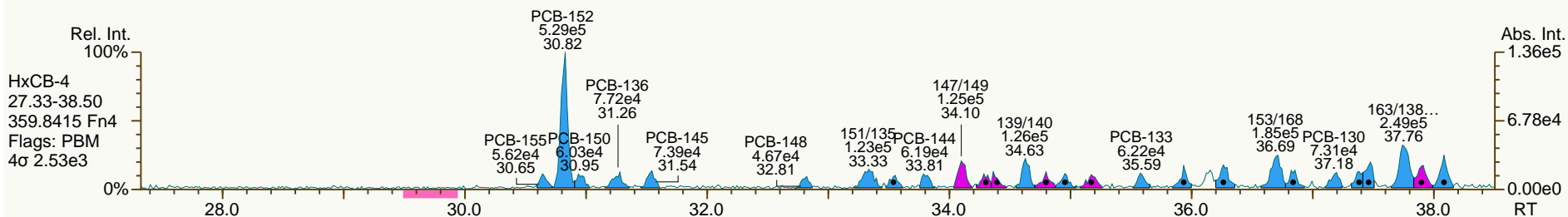
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
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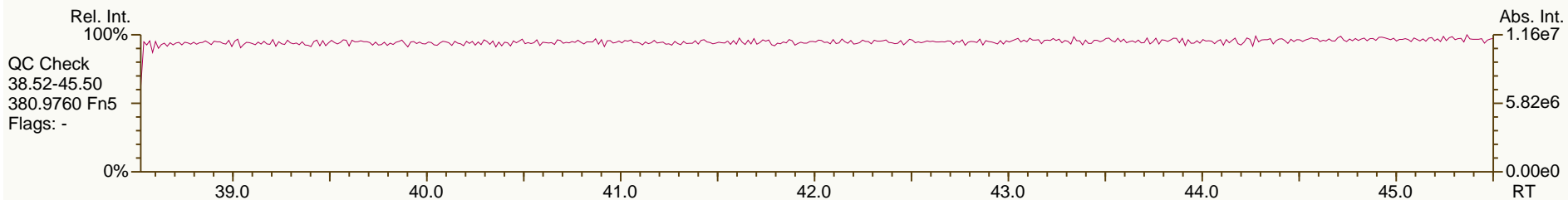
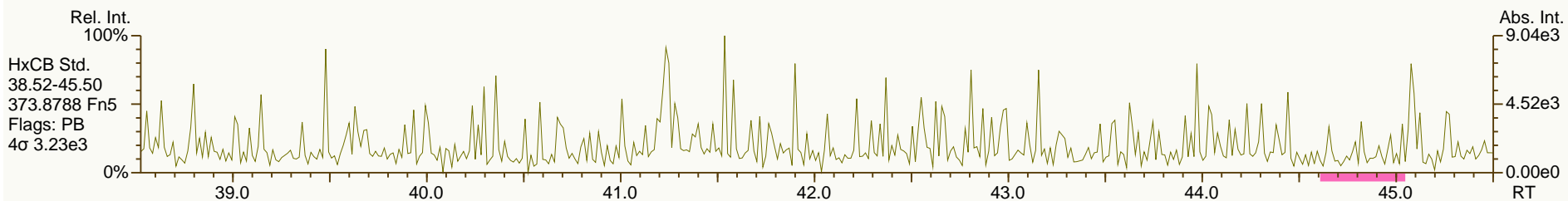
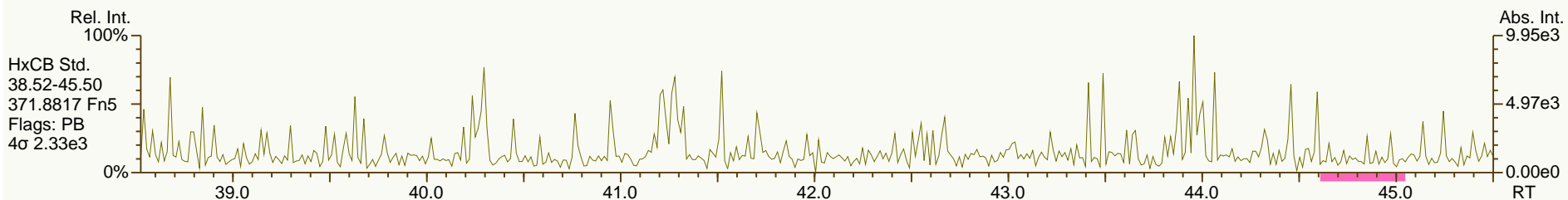
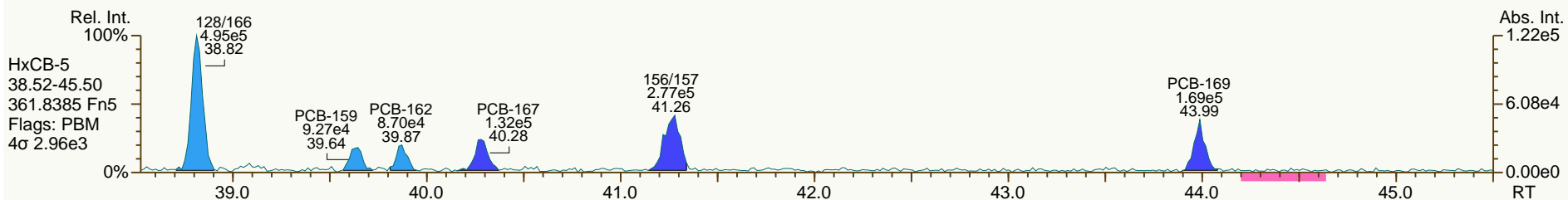
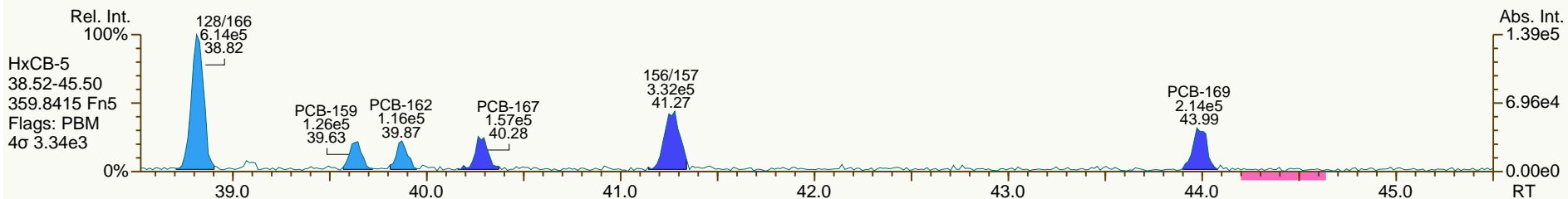




SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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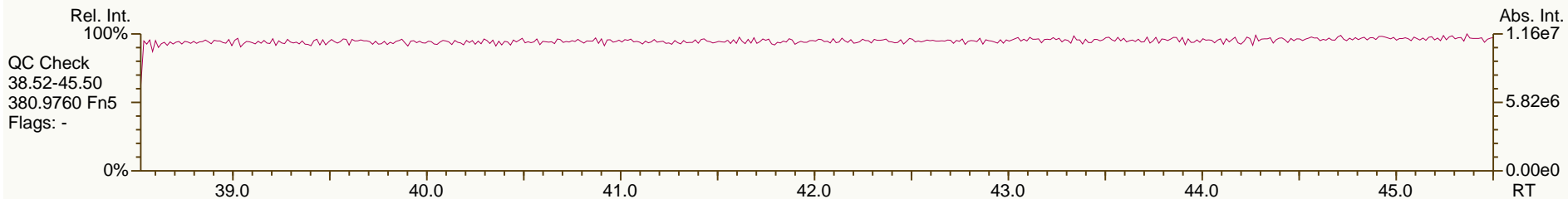
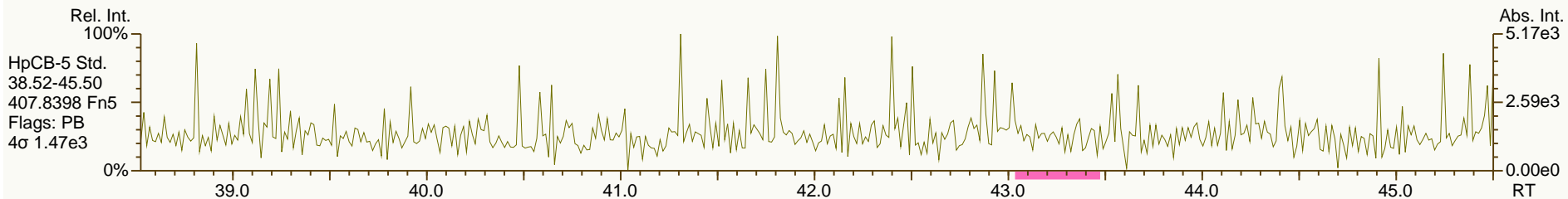
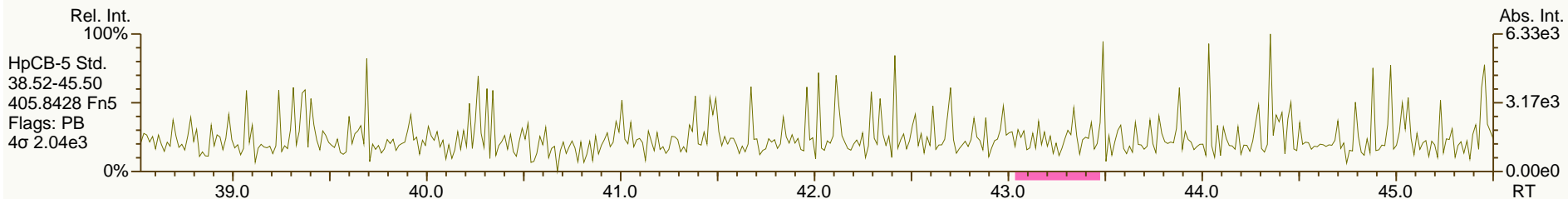
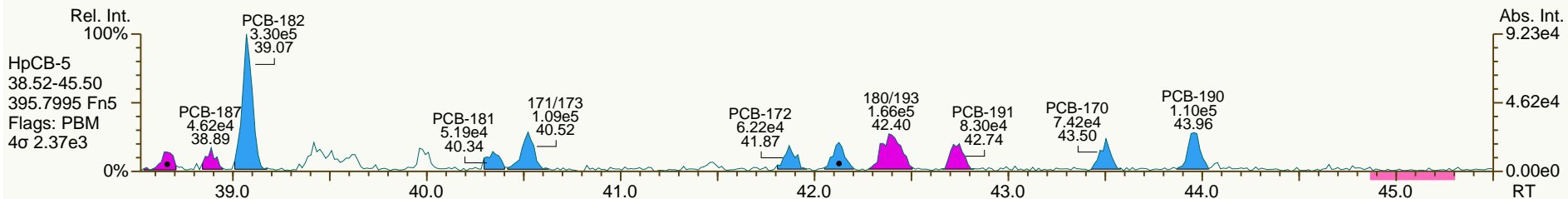
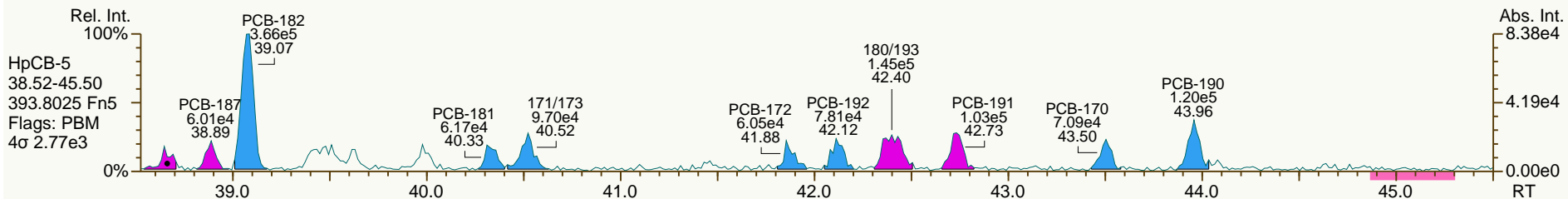
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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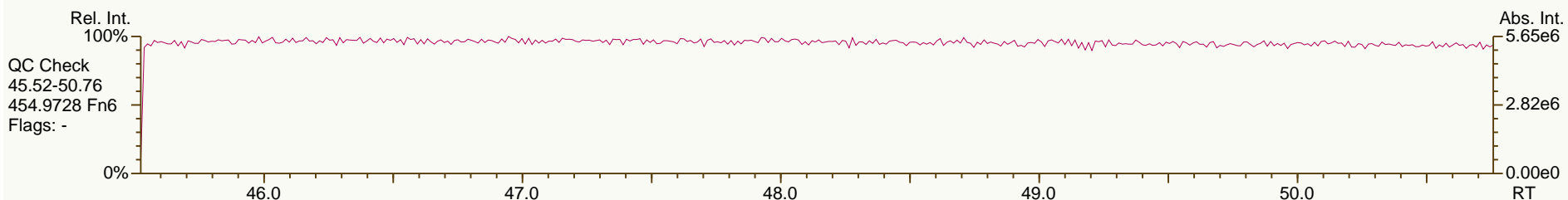
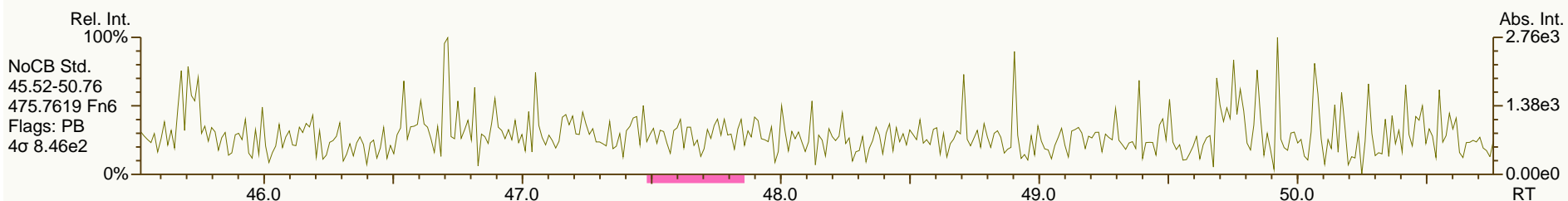
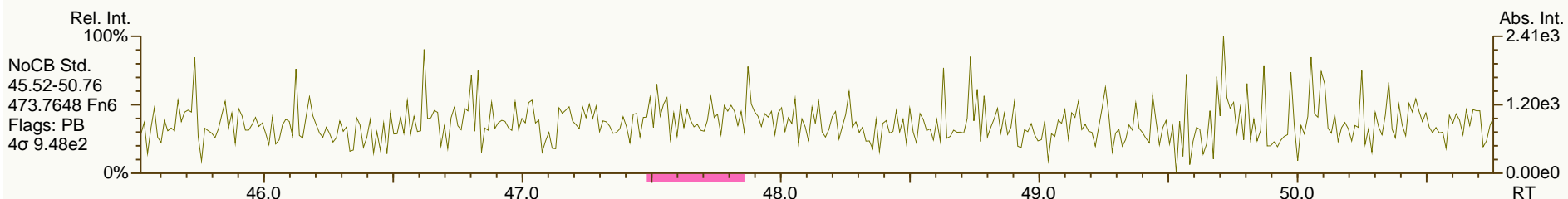
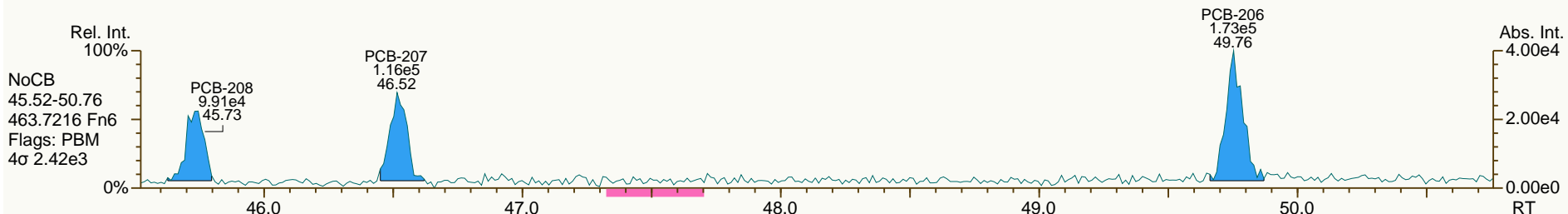
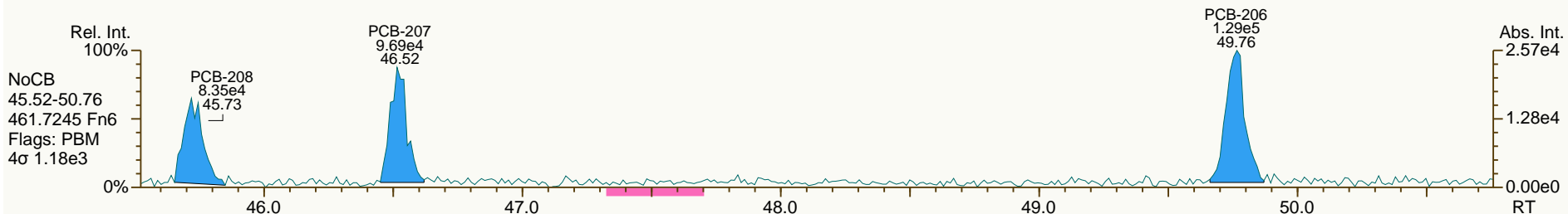
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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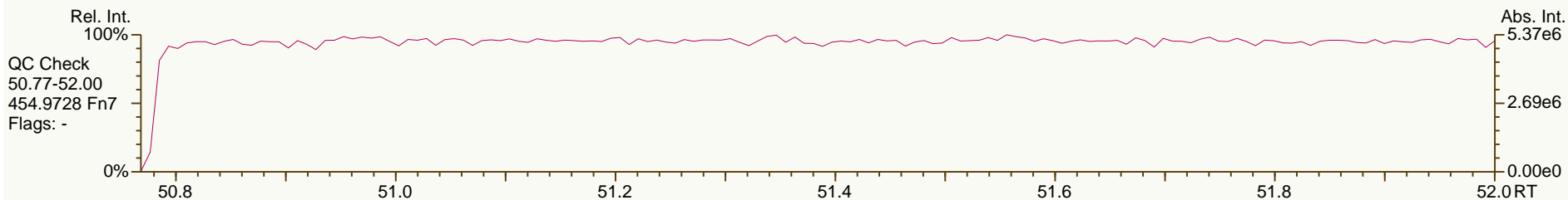
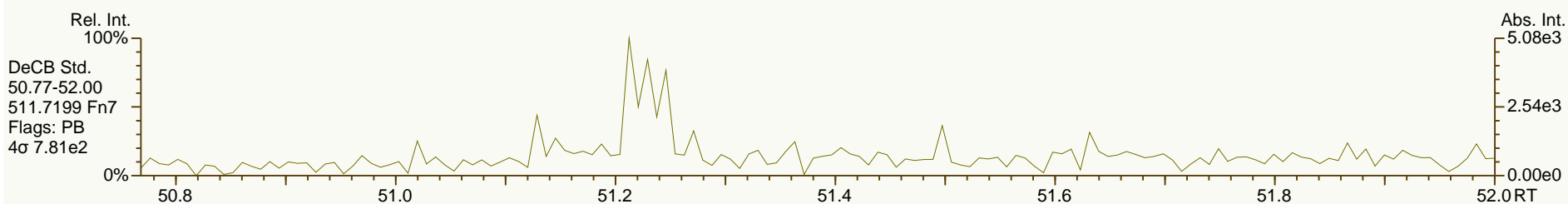
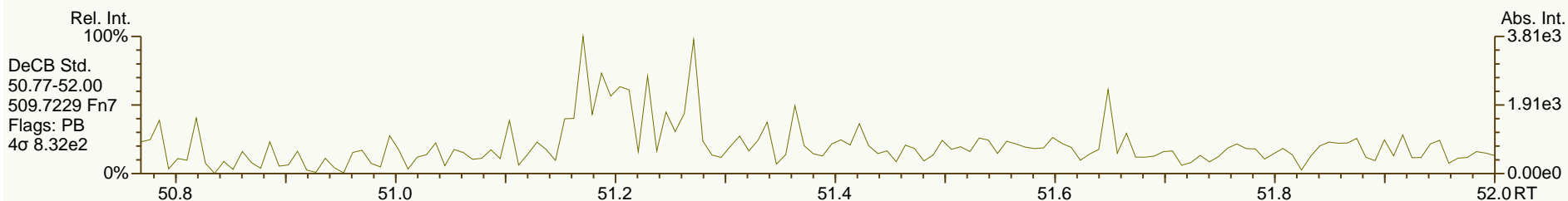
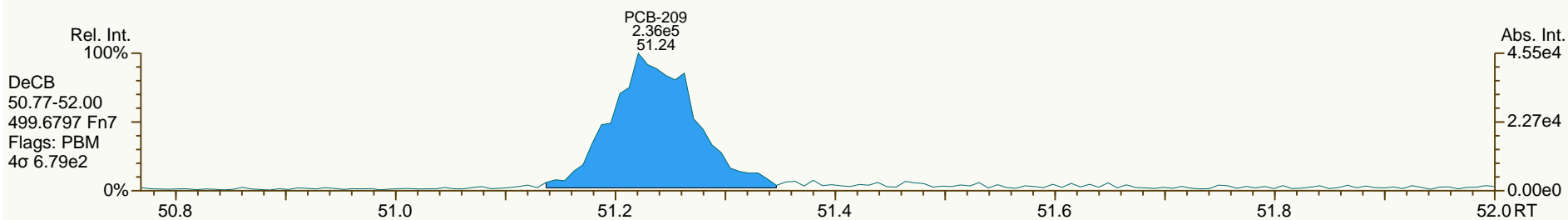
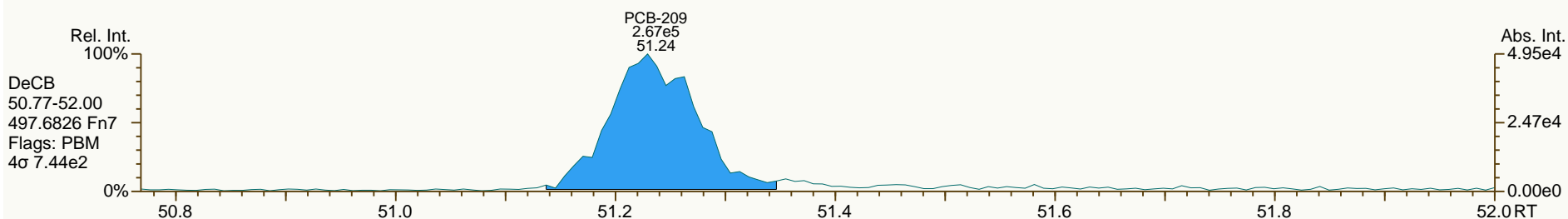
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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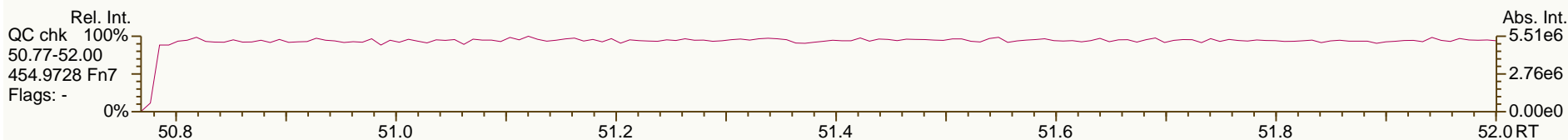
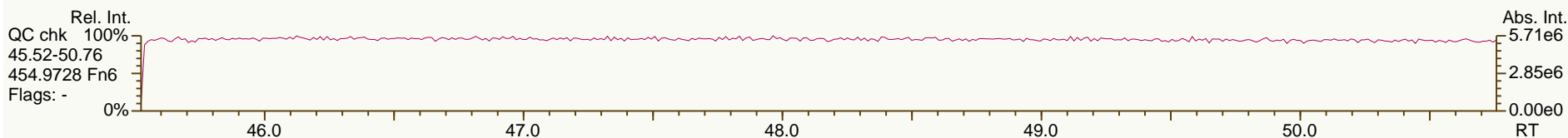
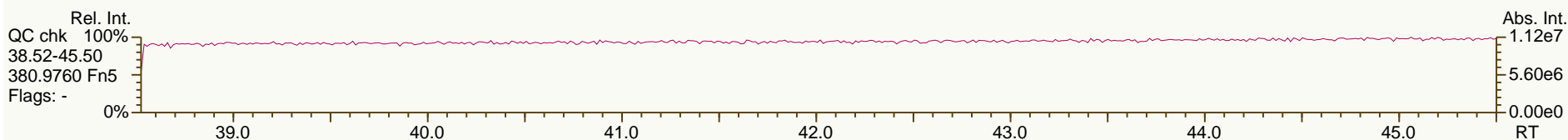
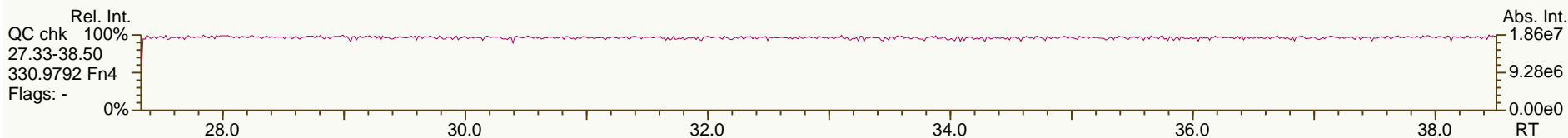
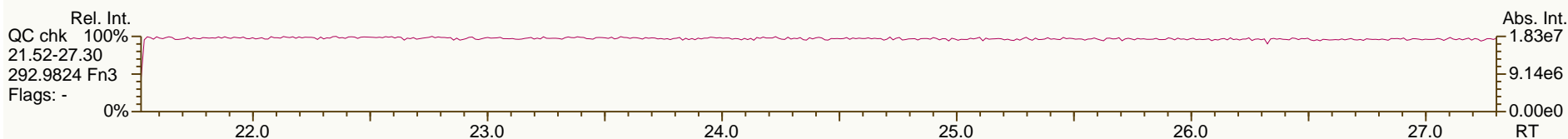
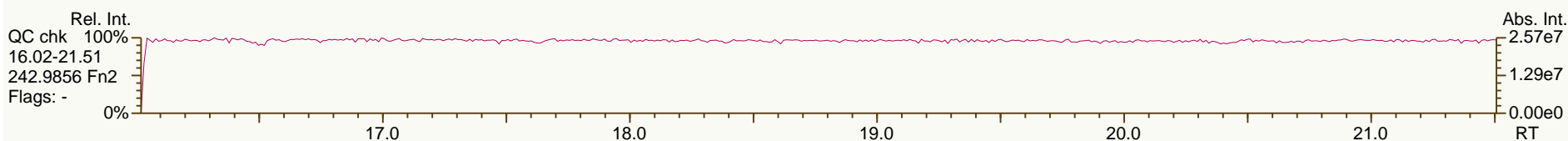
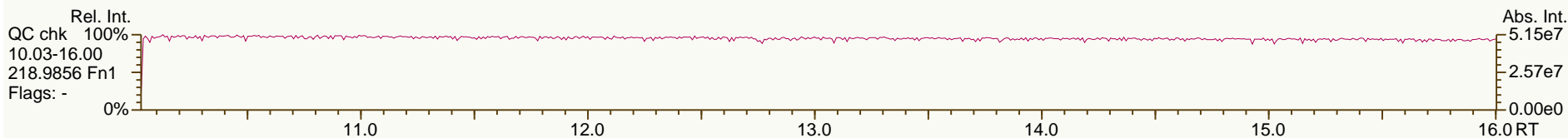




SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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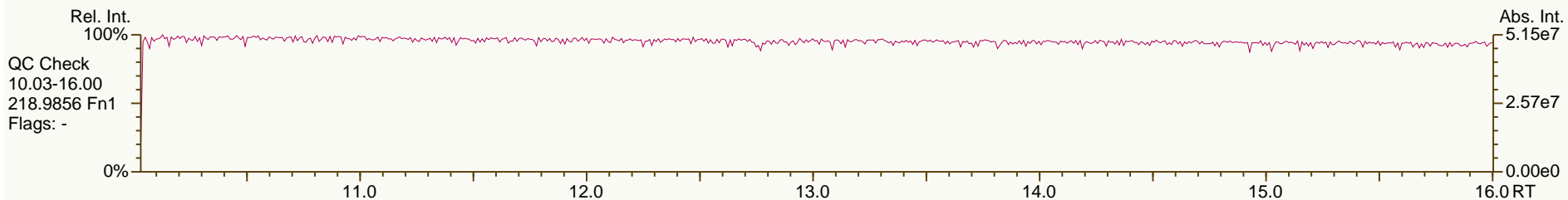
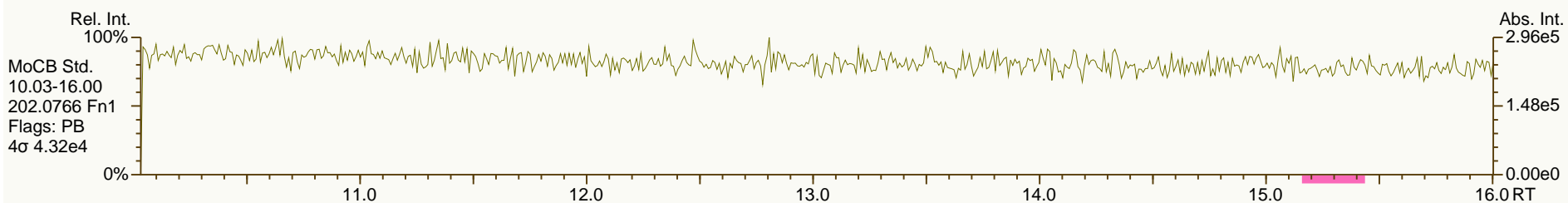
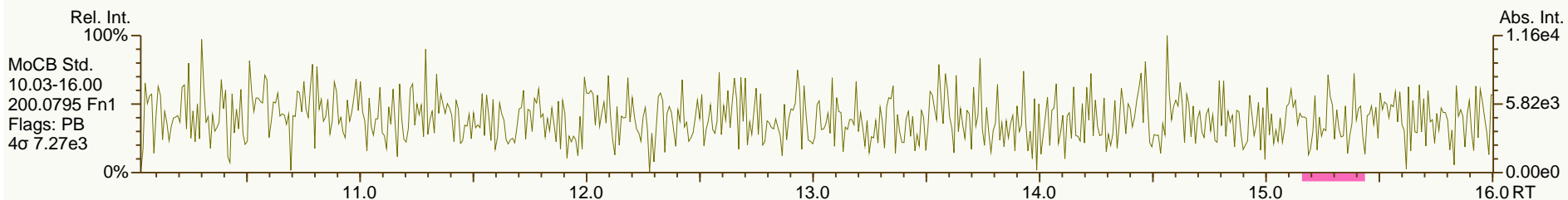
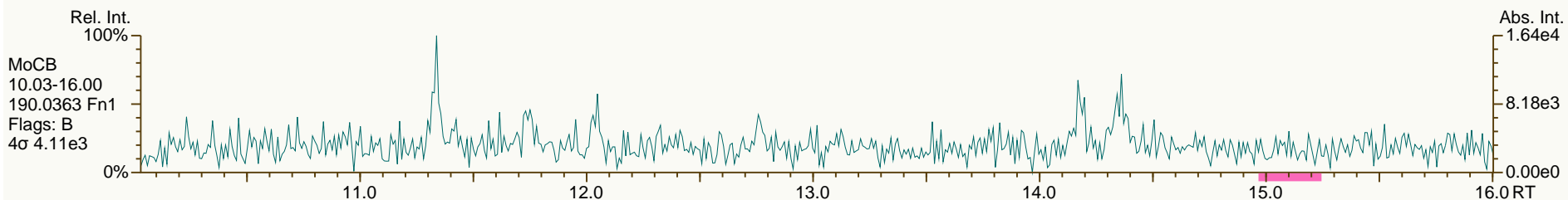
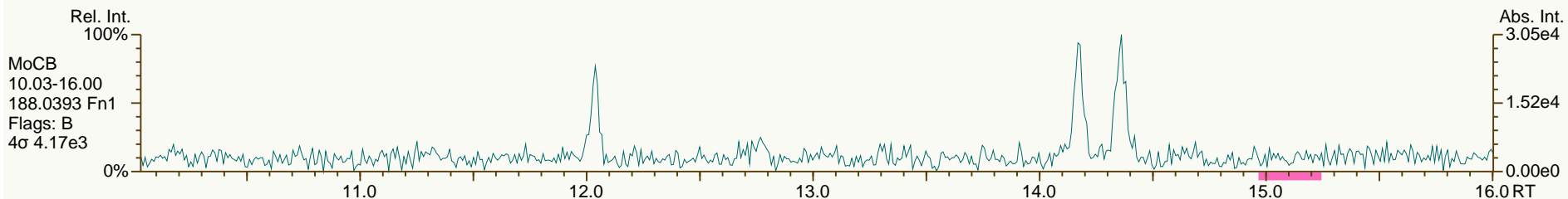
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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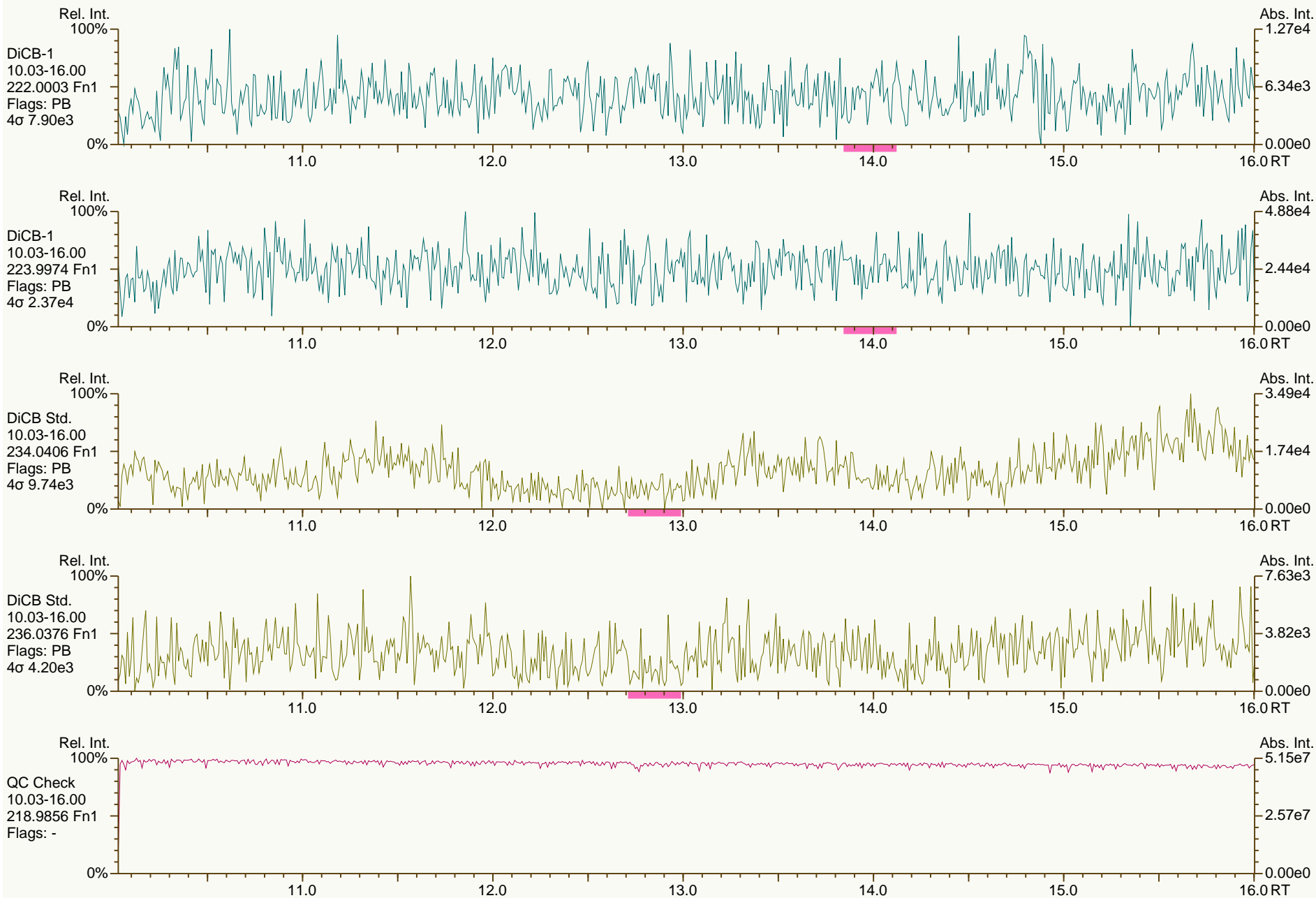
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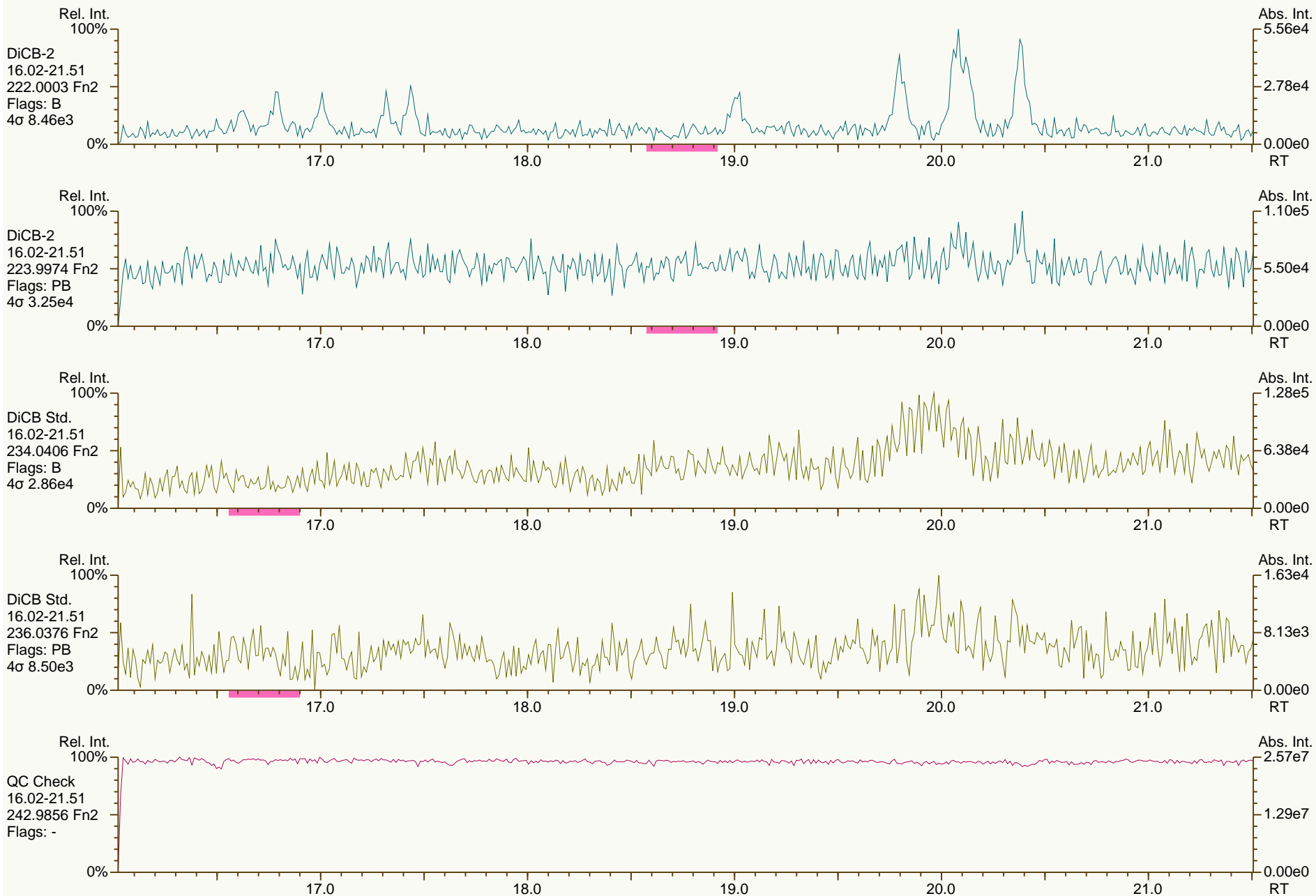
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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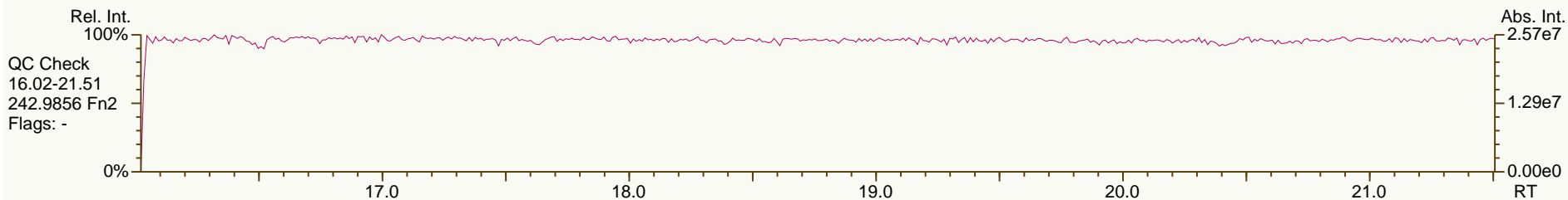
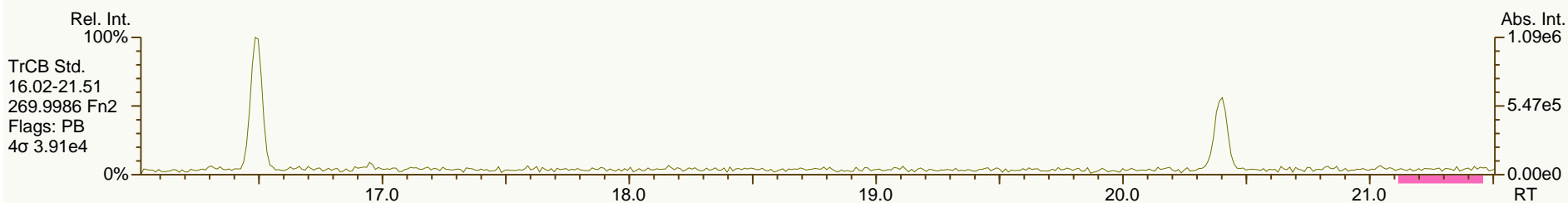
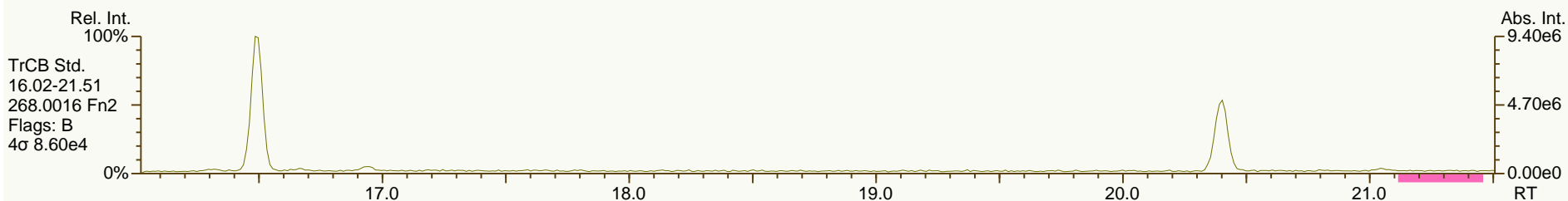
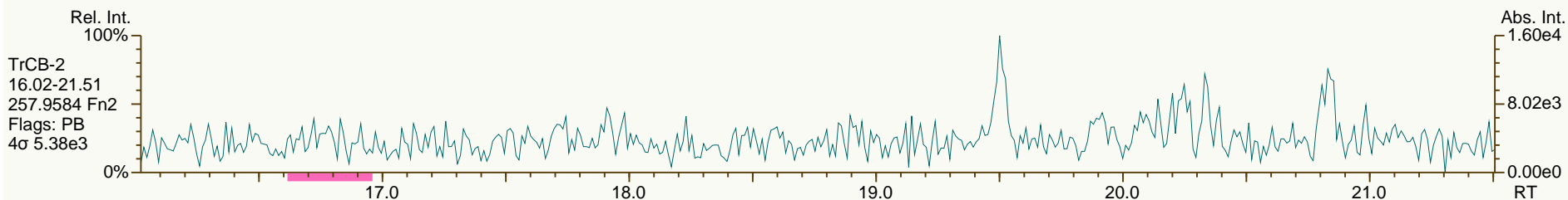
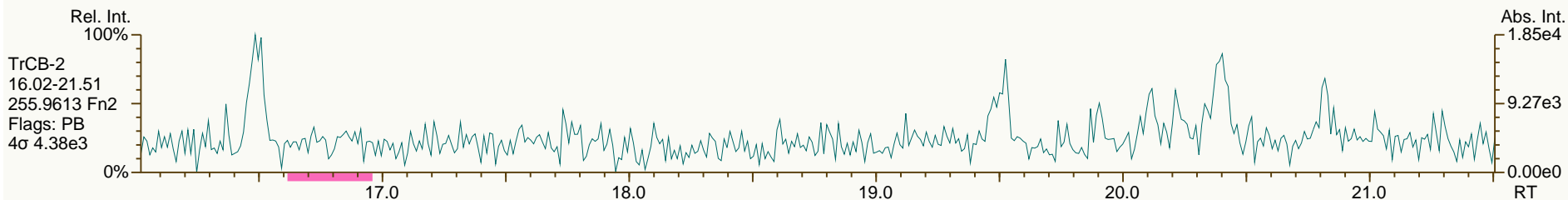
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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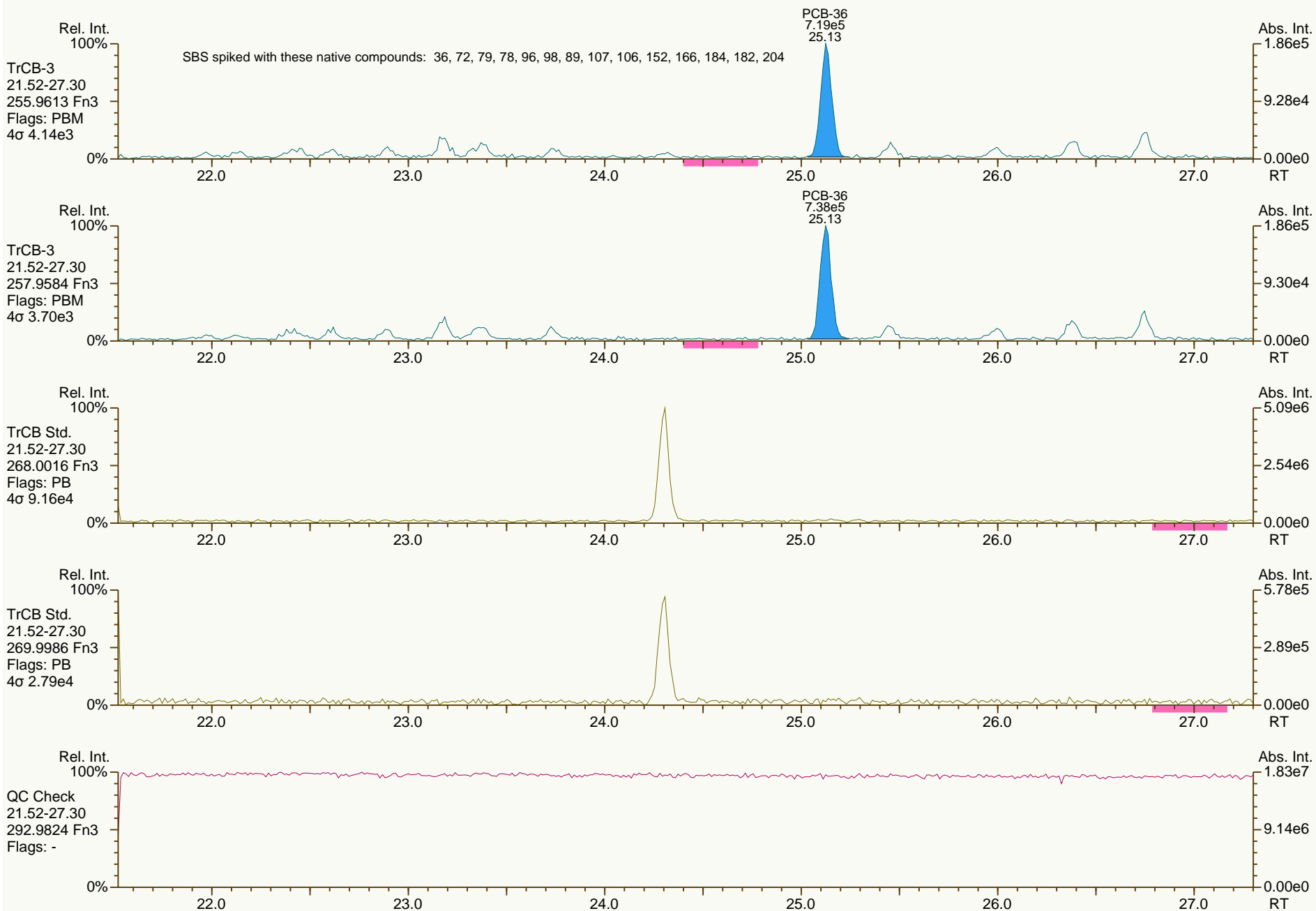
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

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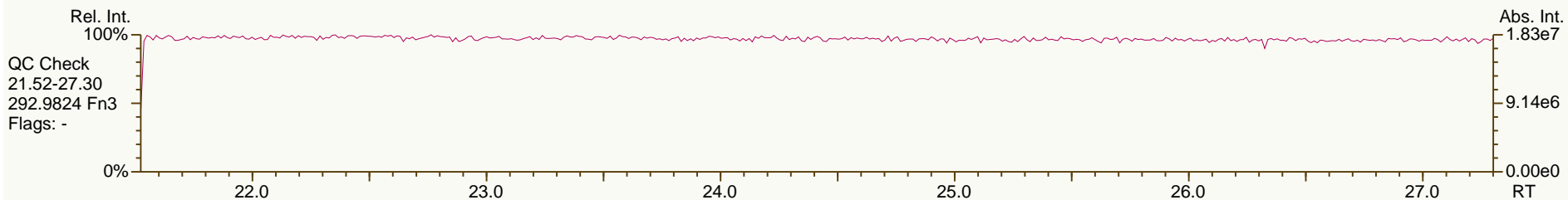
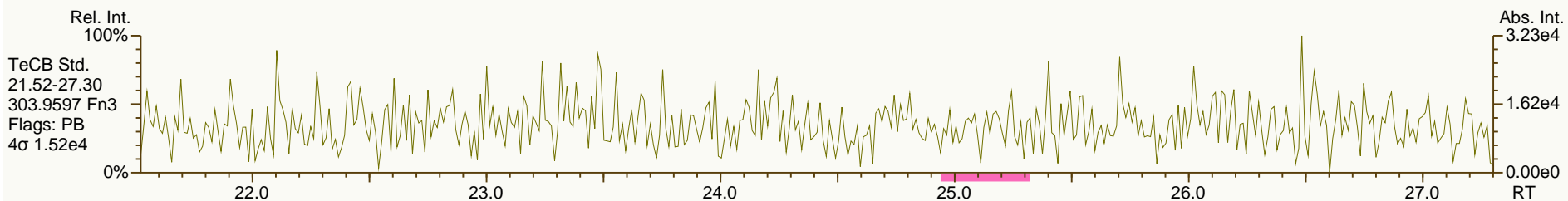
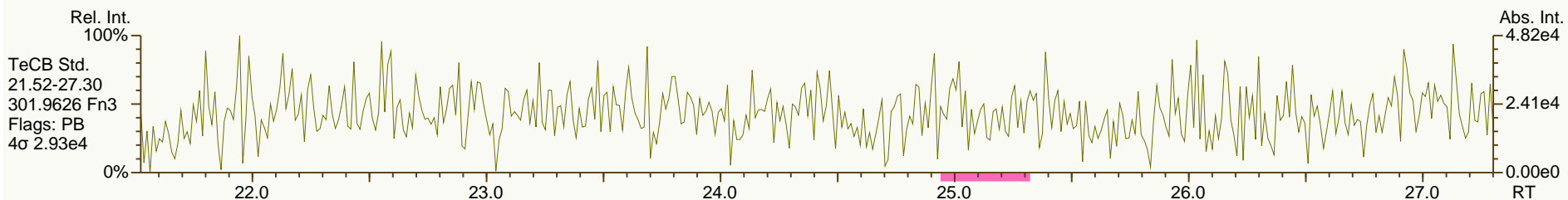
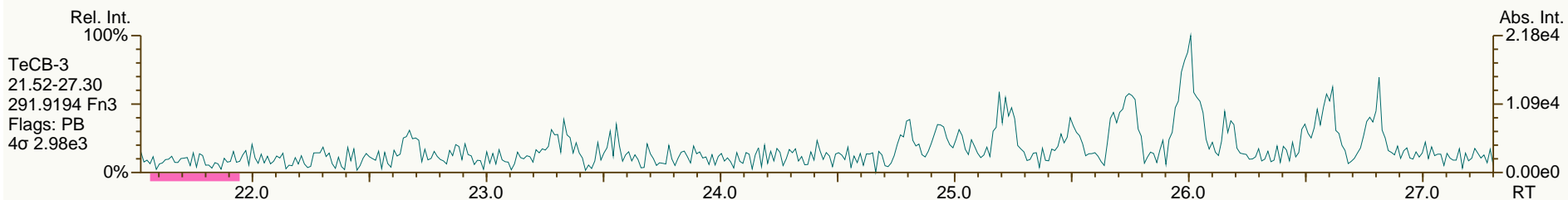
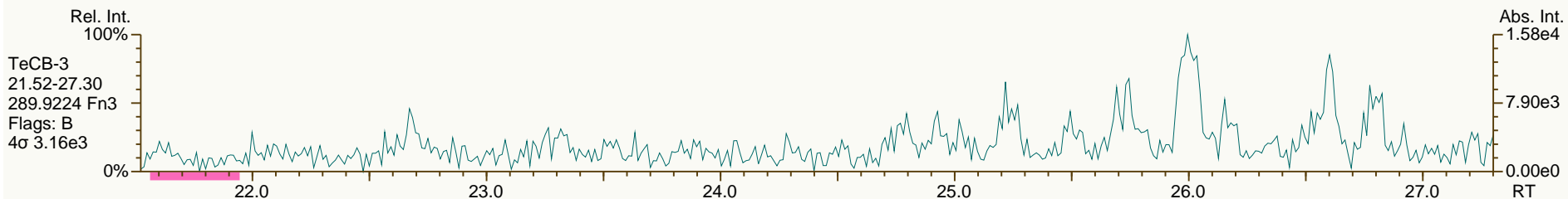
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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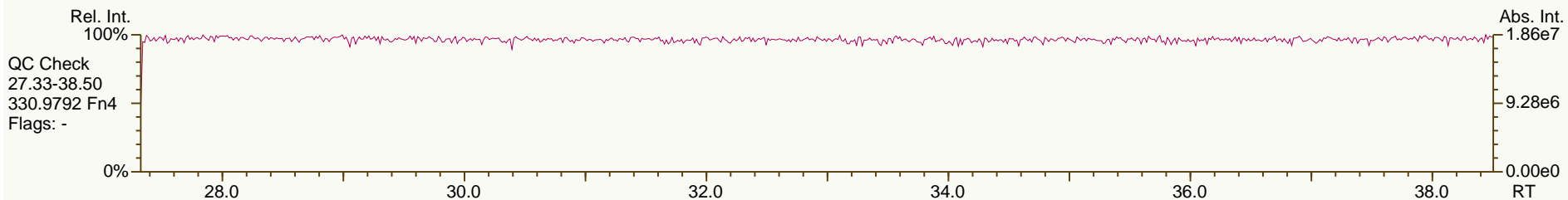
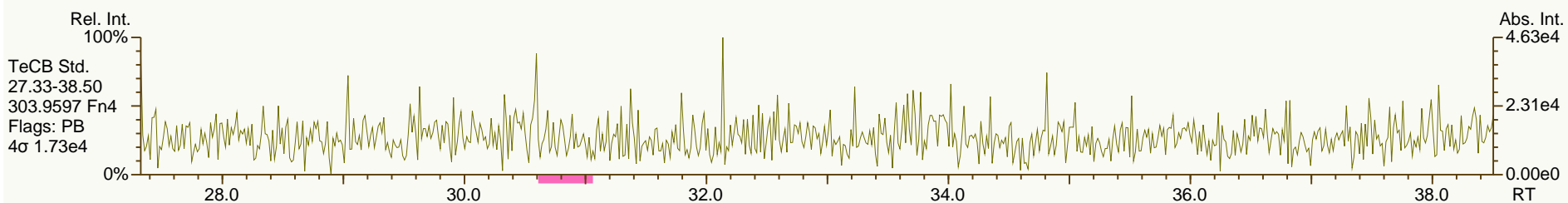
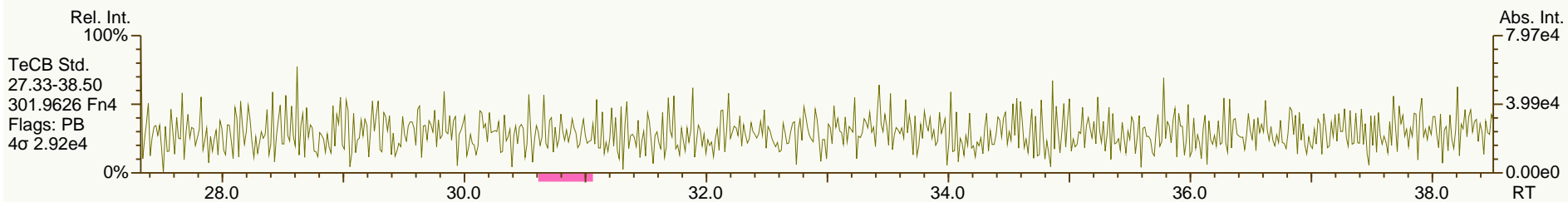
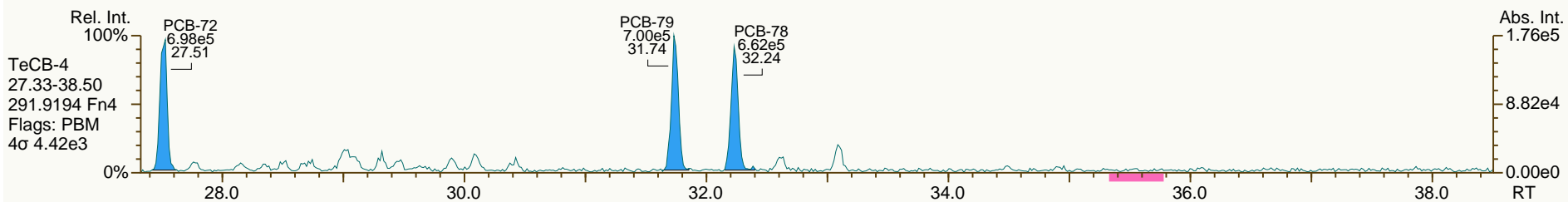
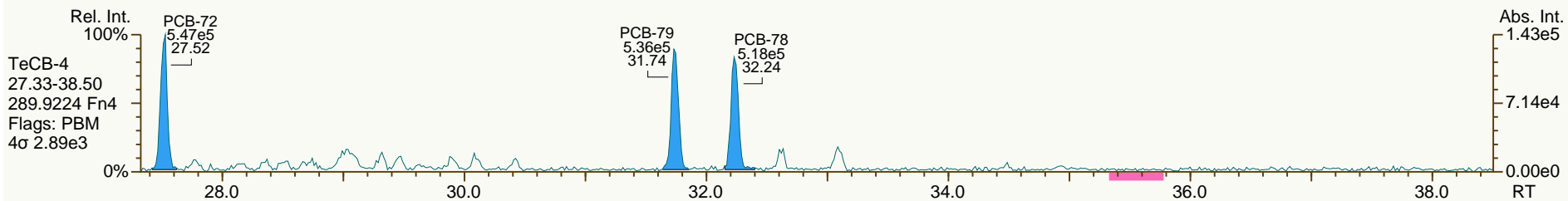




SGS-AP ID: SBS\_131220\_PCB\_XD  
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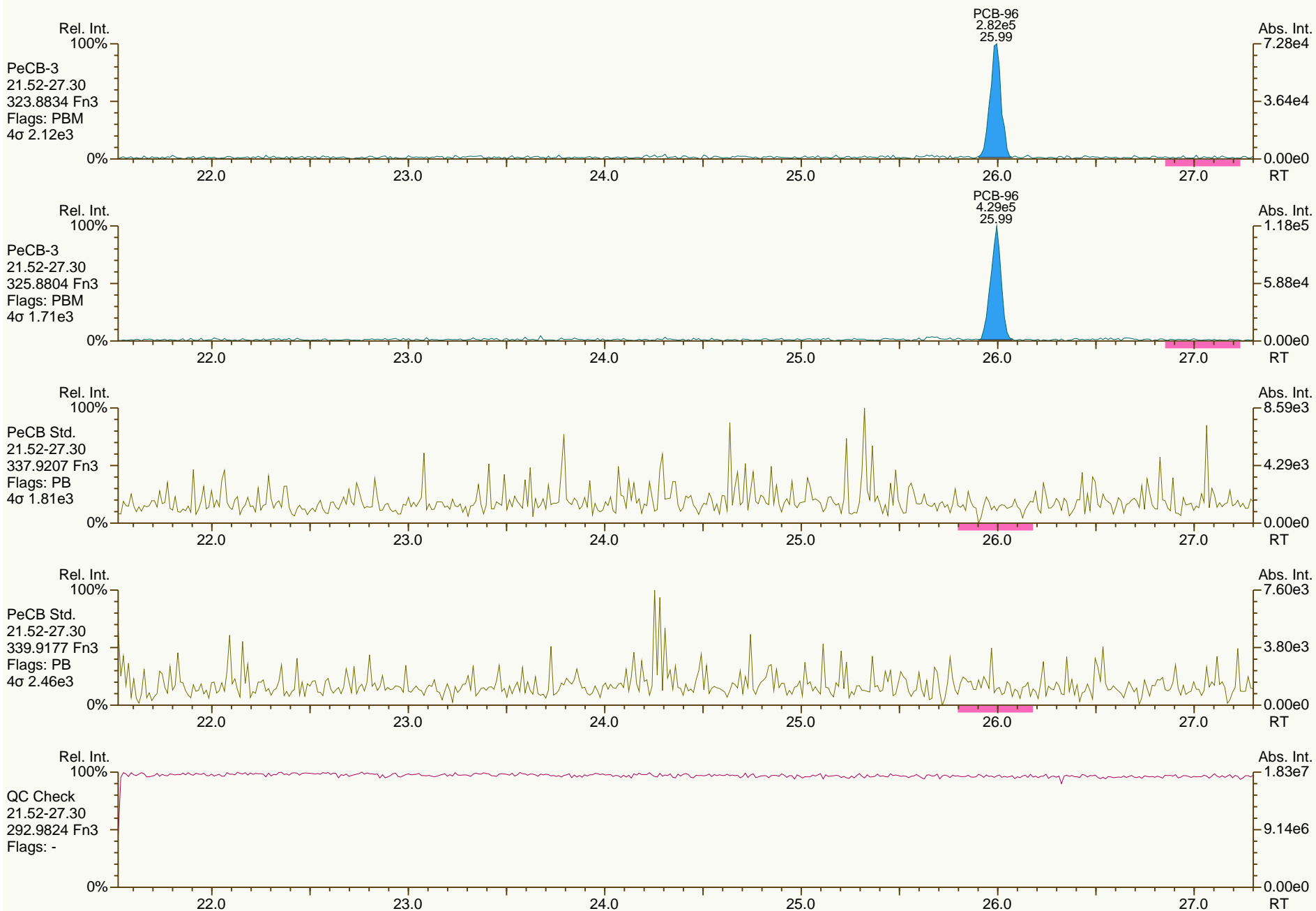
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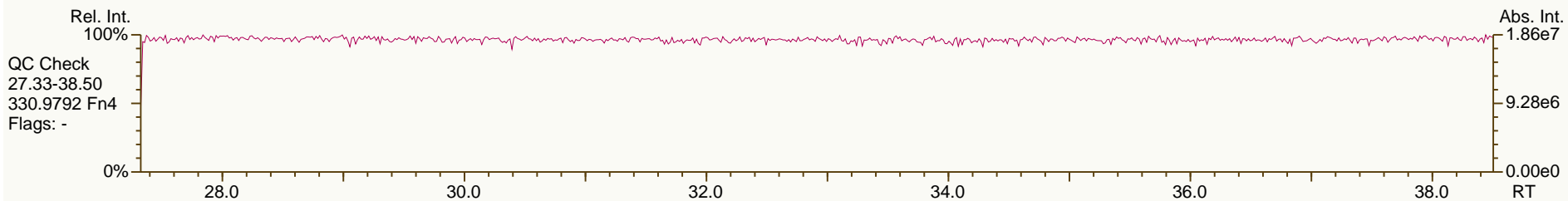
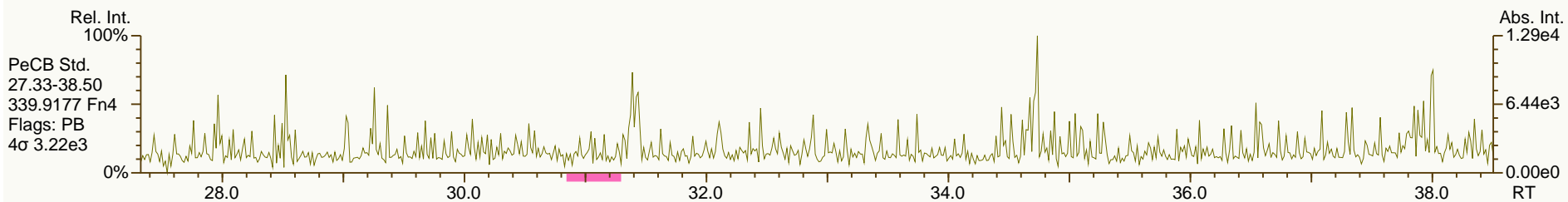
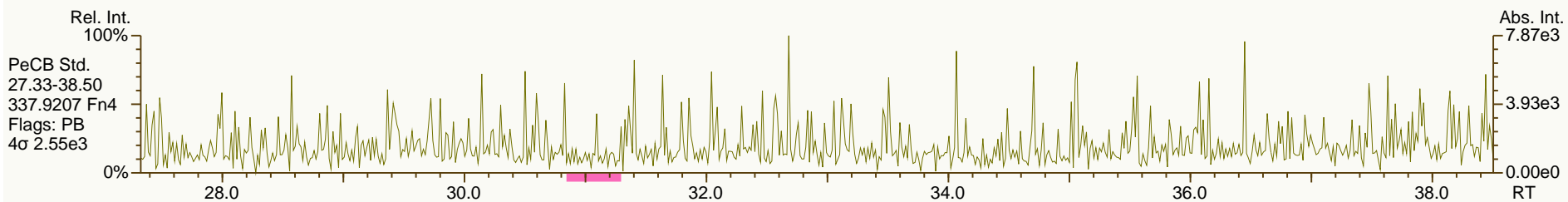
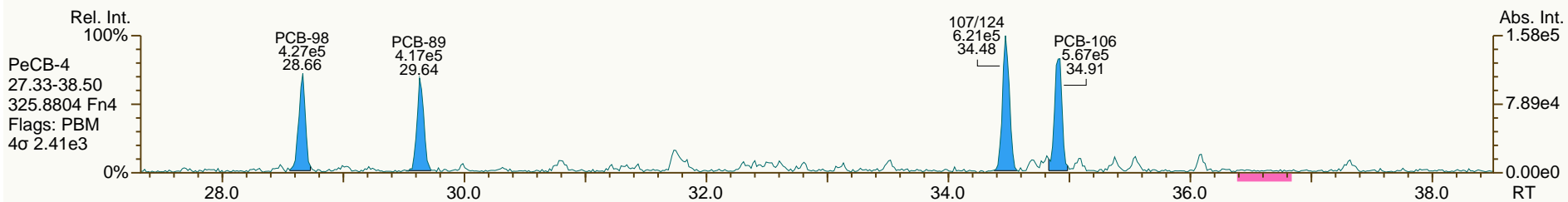
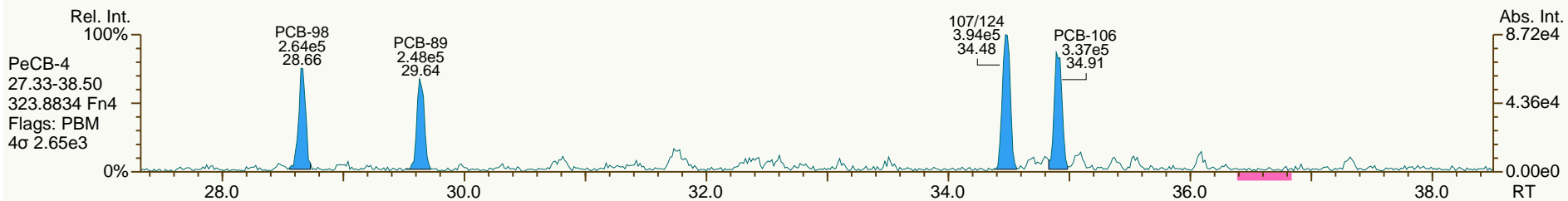
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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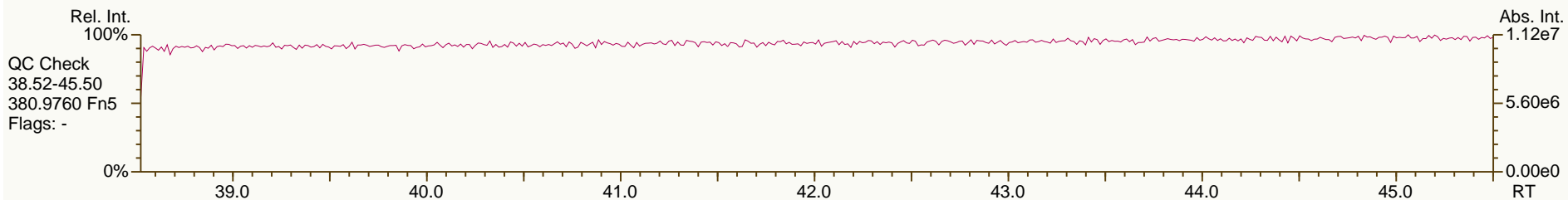
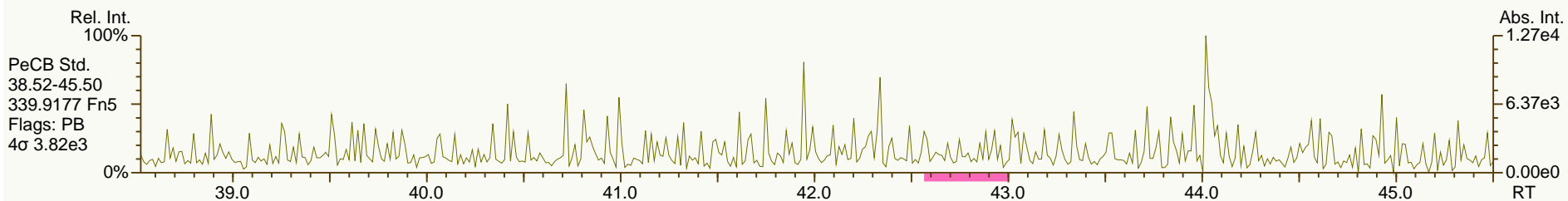
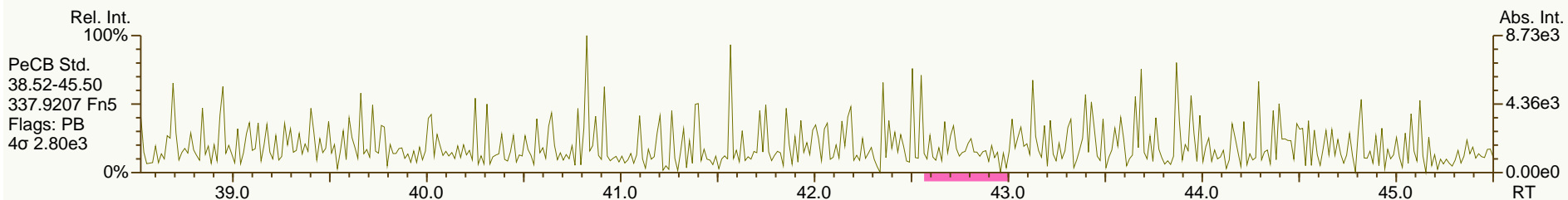
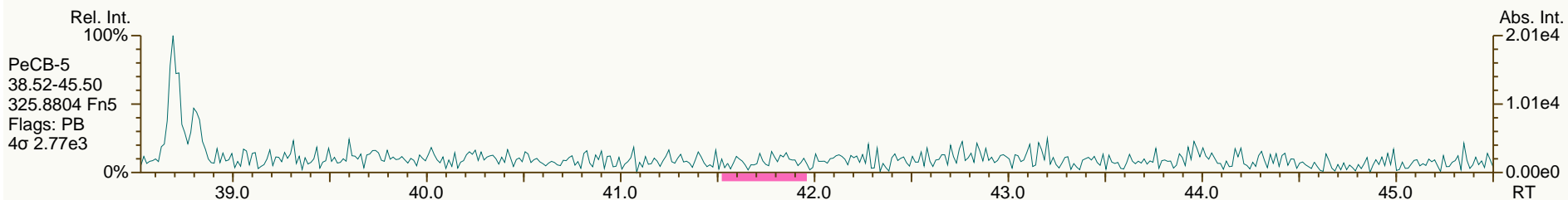
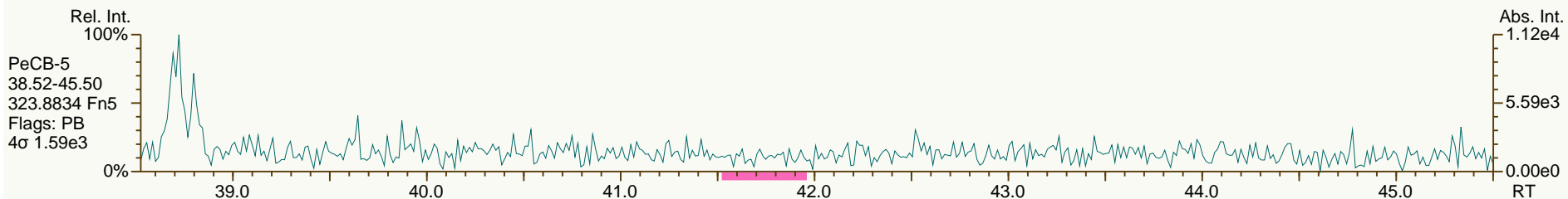
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

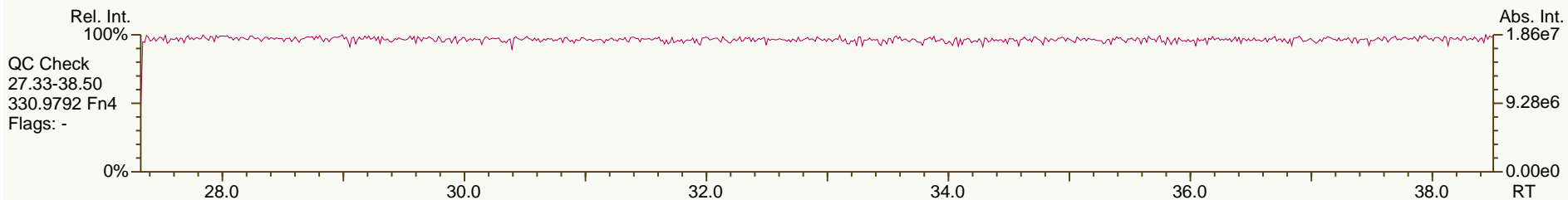
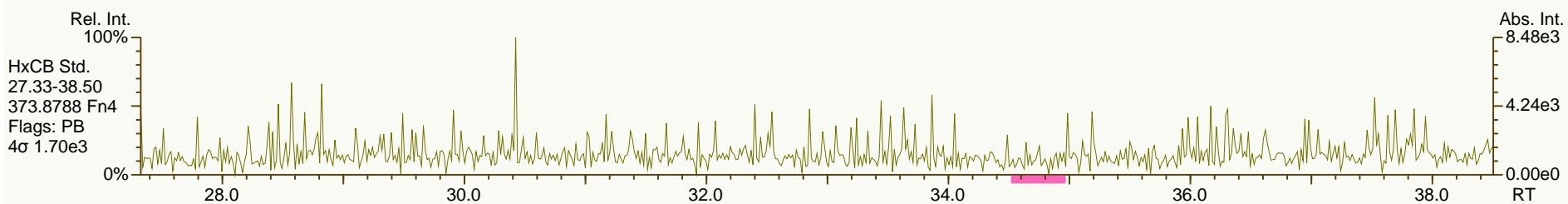
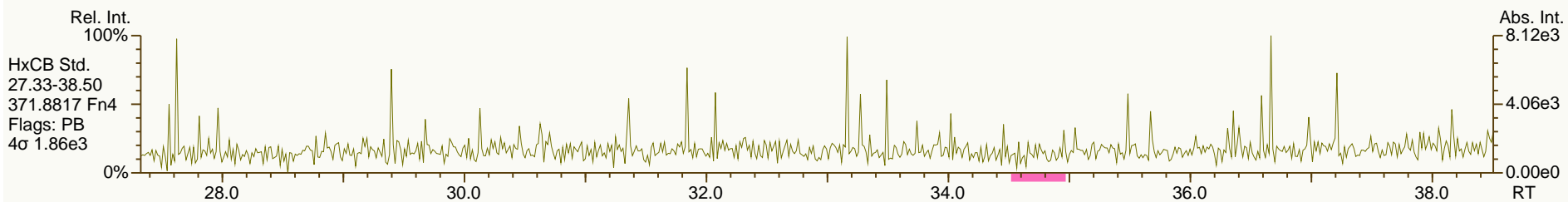
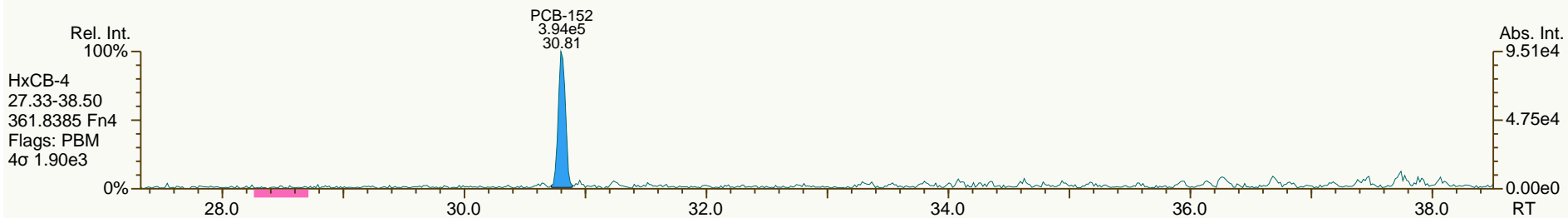
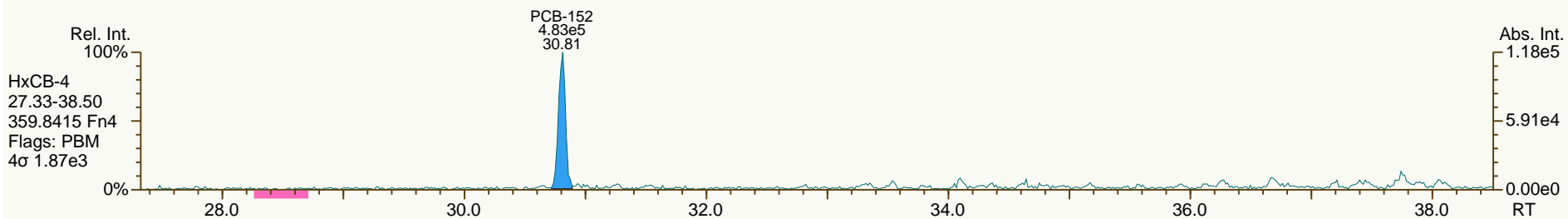
Acq: 20-Dec-2013 22:52:16  
 User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

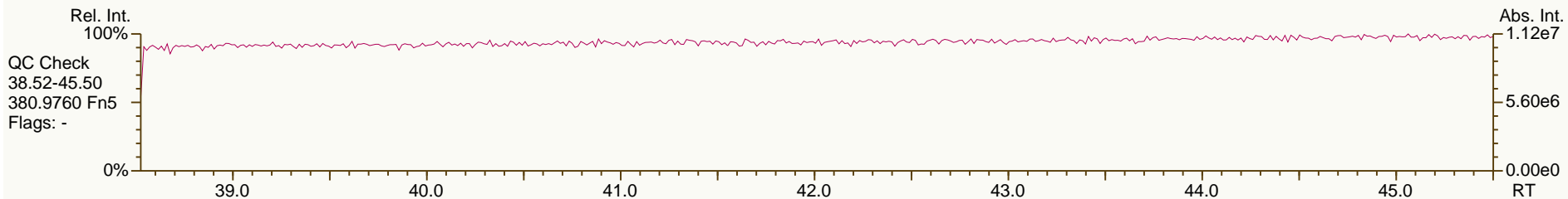
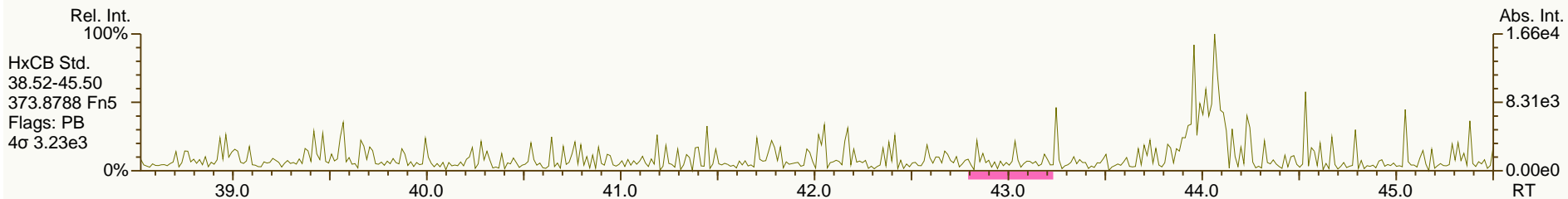
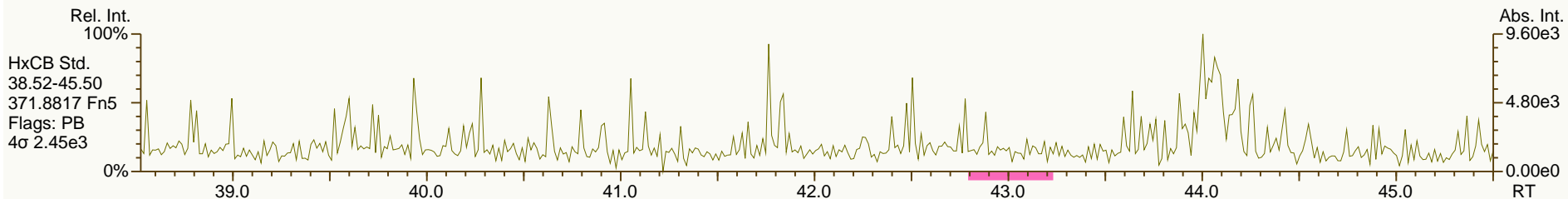
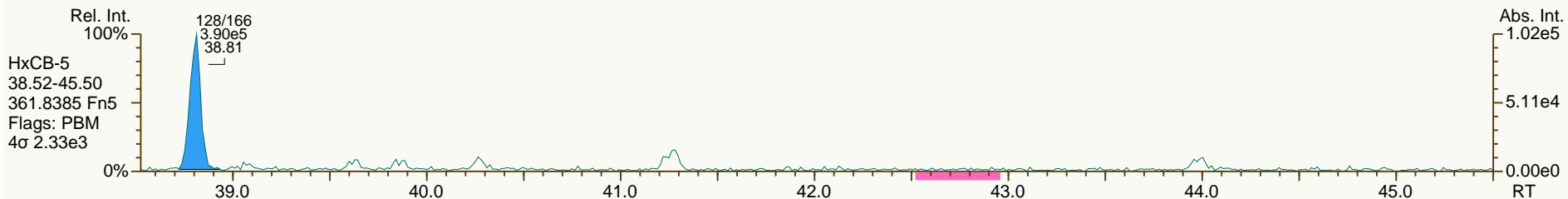
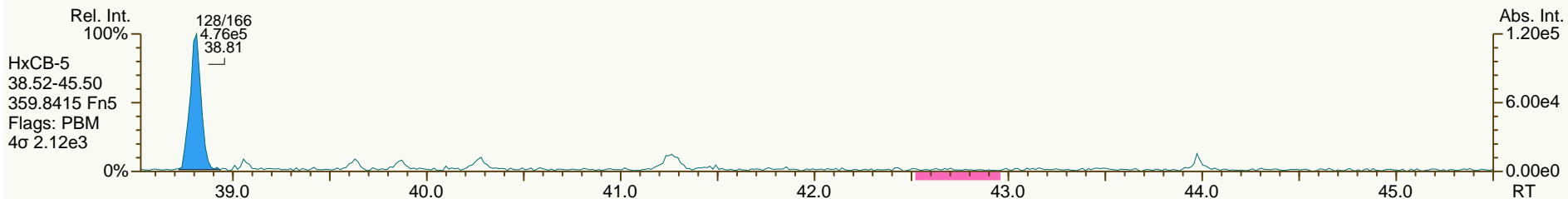
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

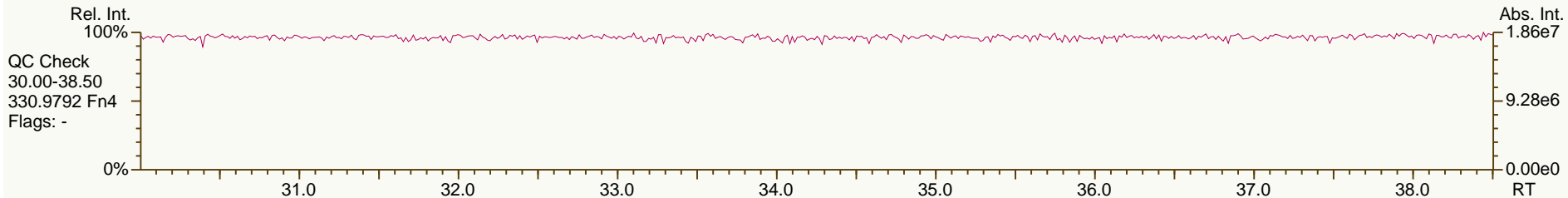
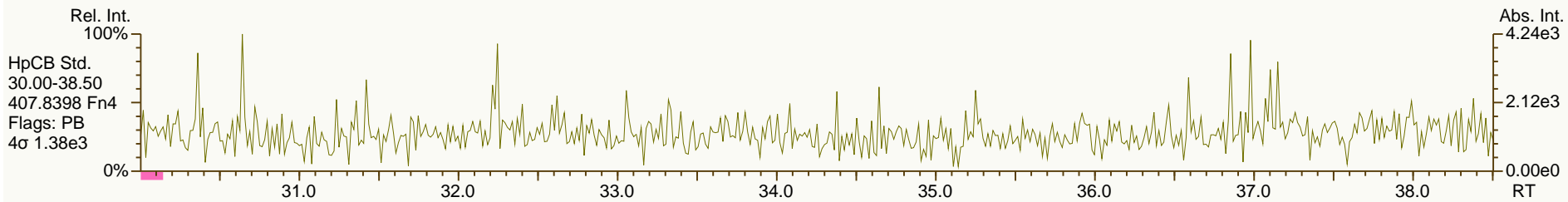
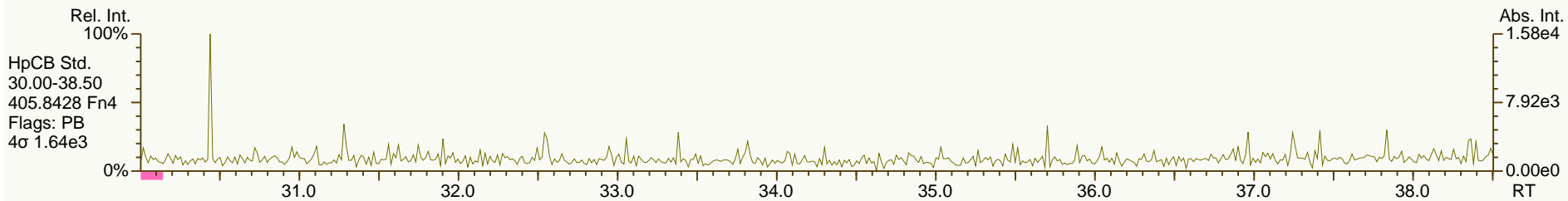
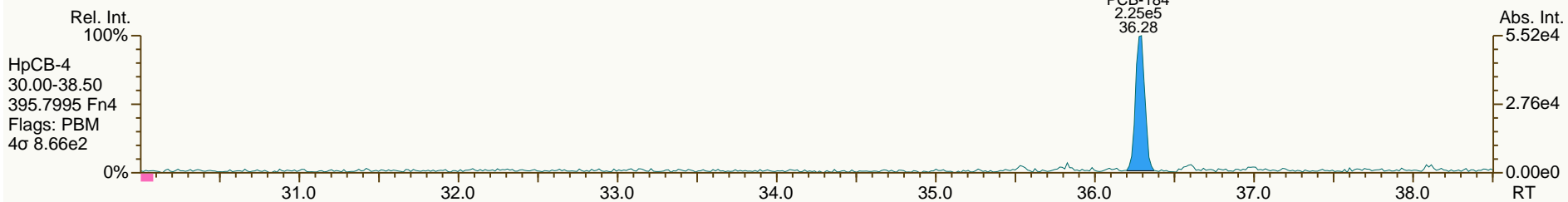
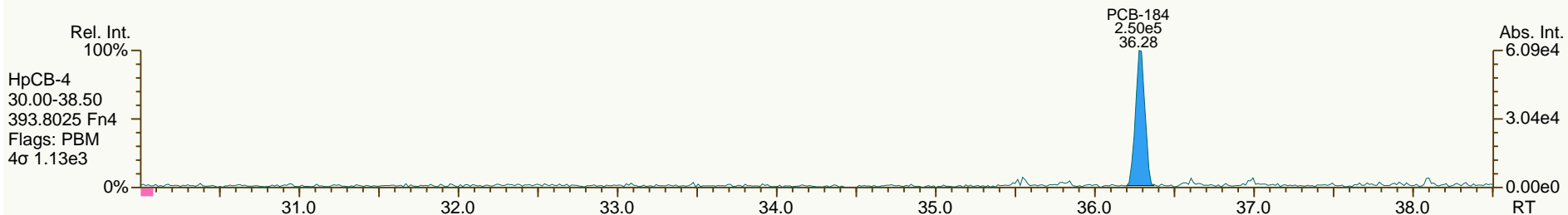
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

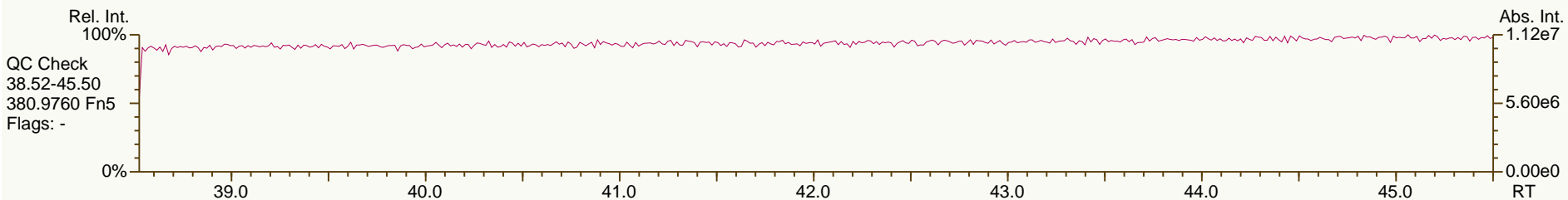
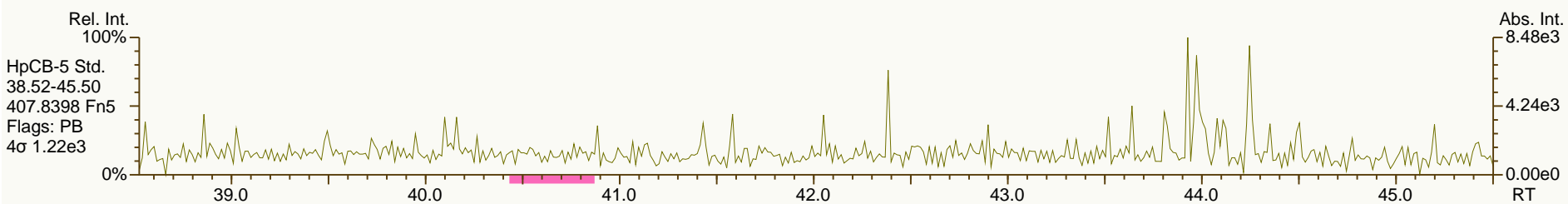
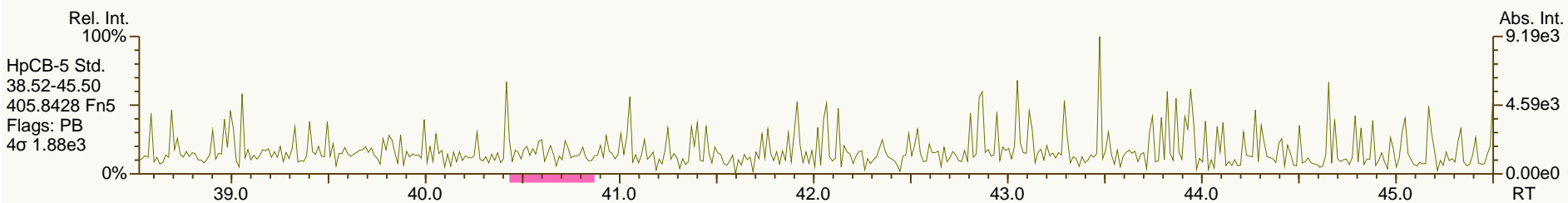
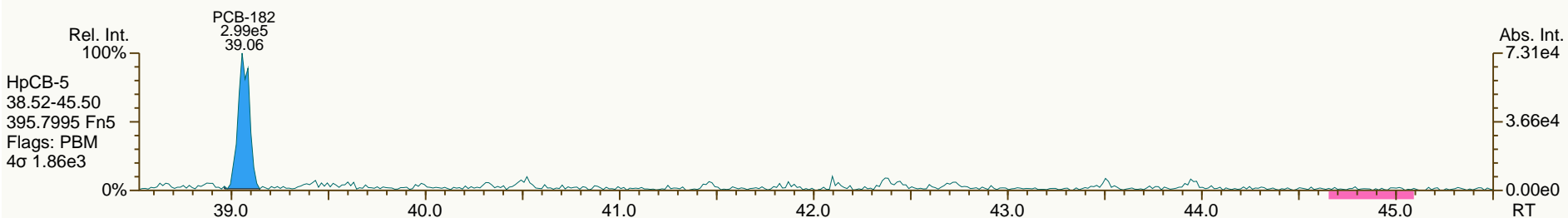
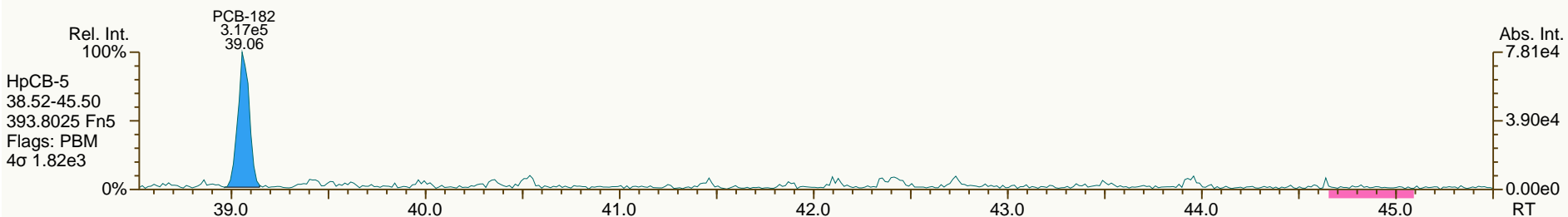
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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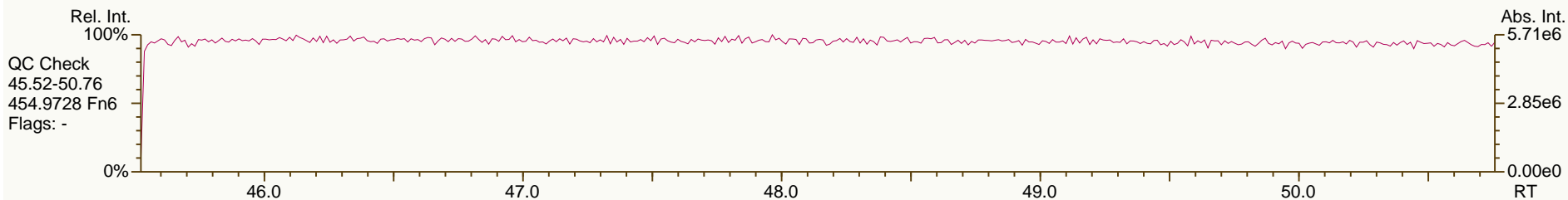
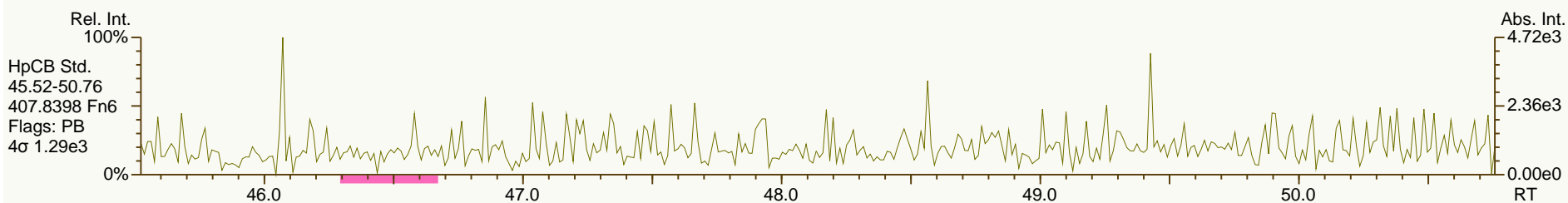
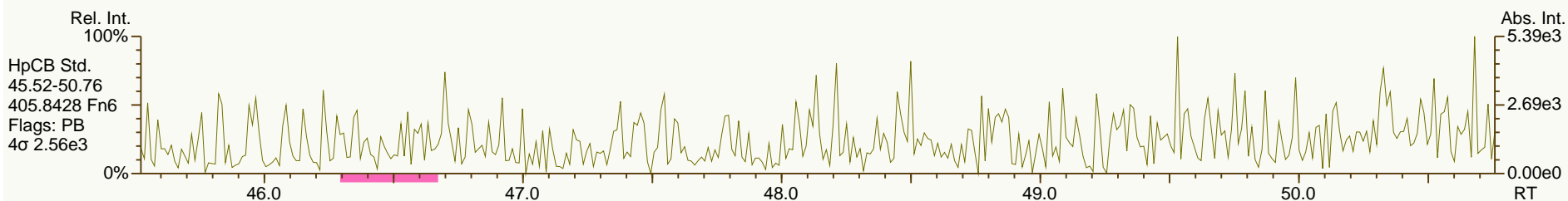
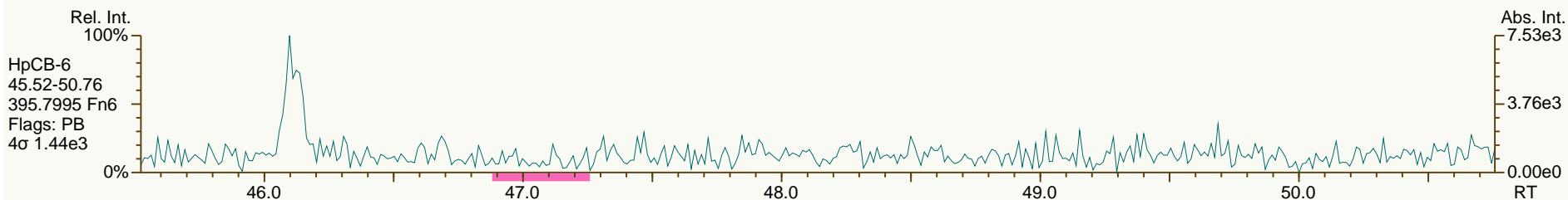
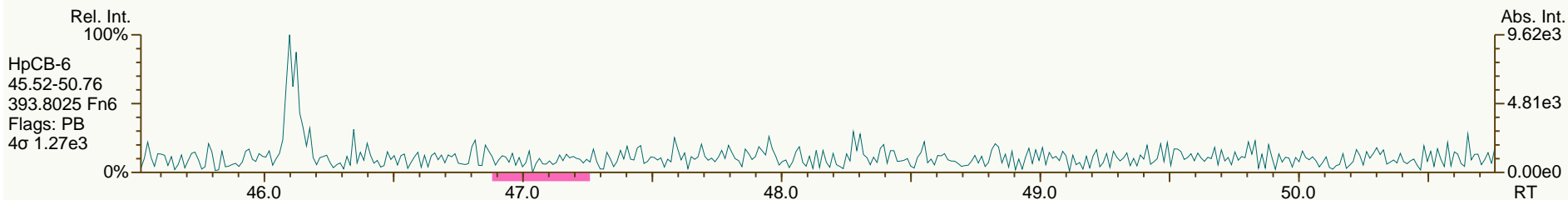




SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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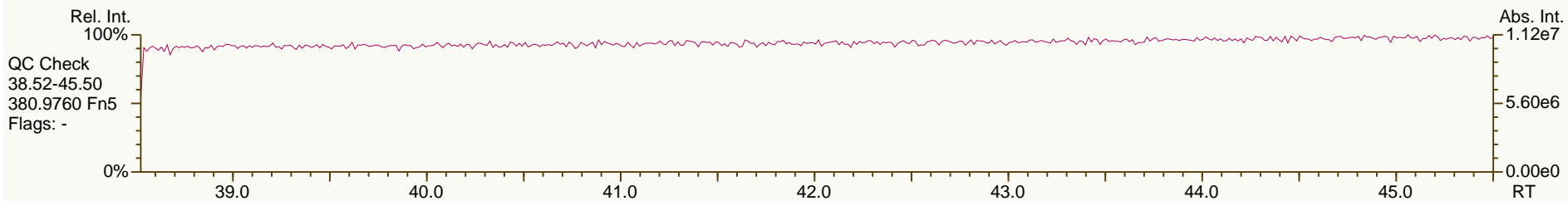
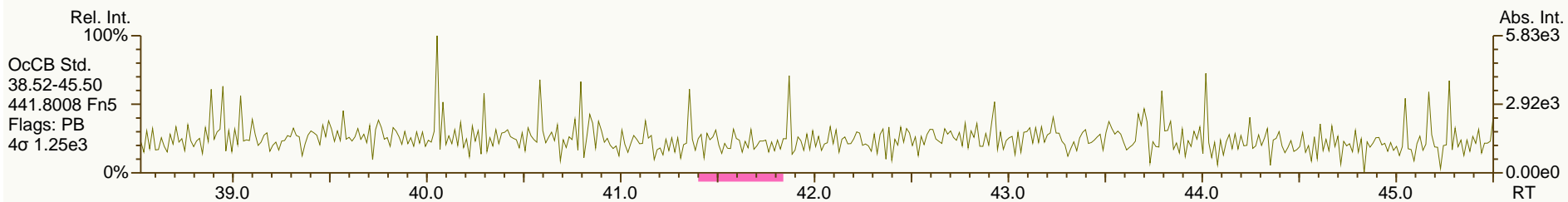
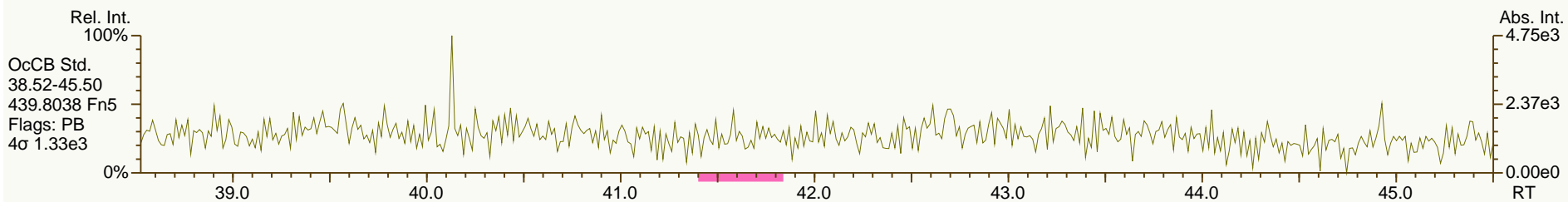
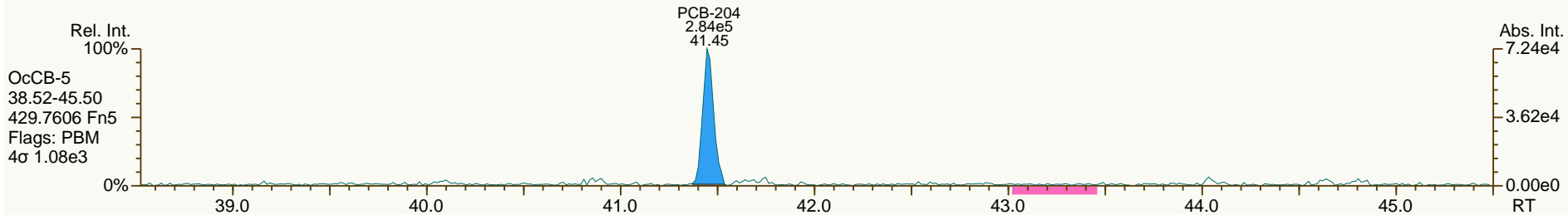
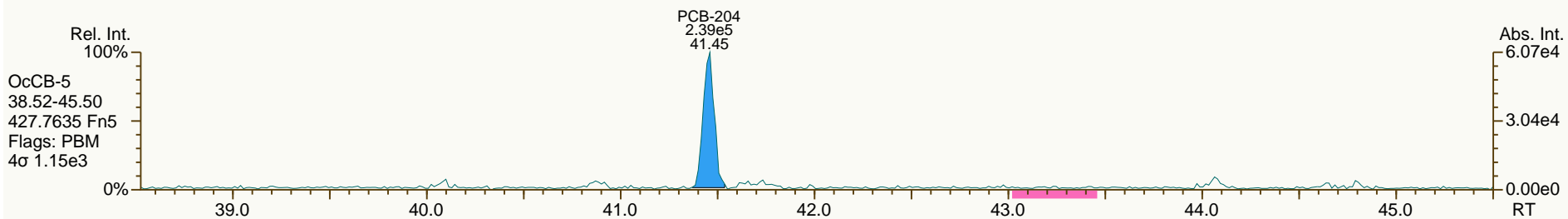
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

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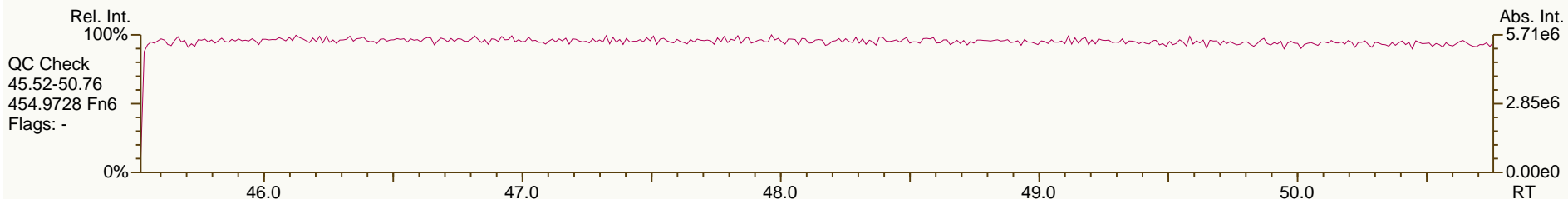
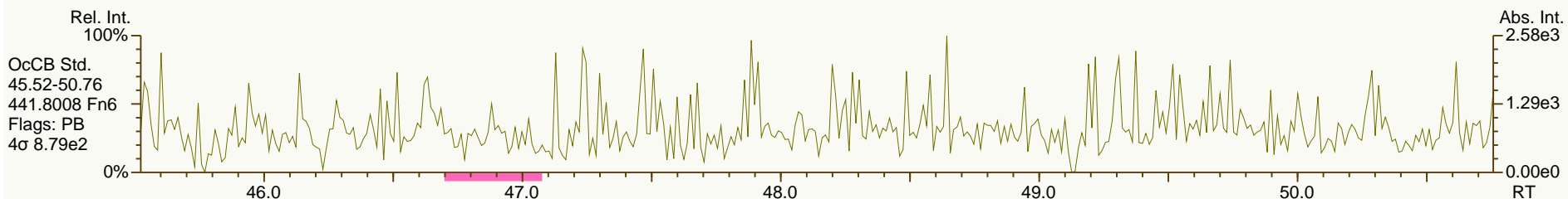
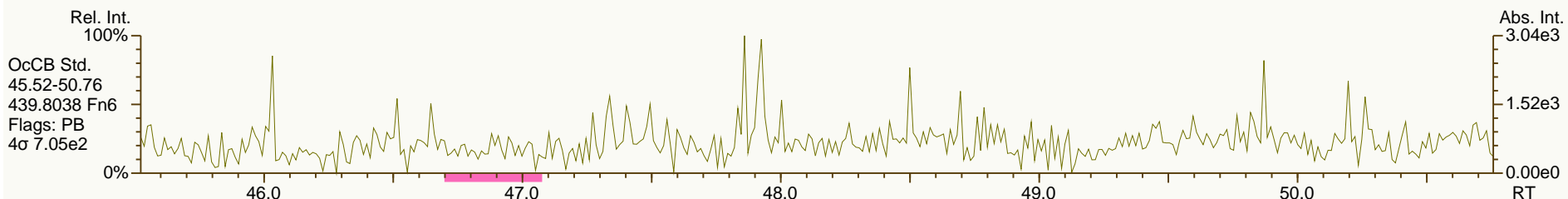
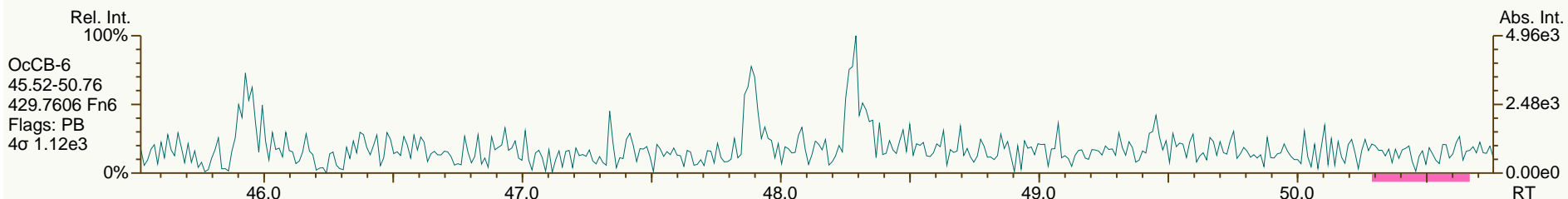
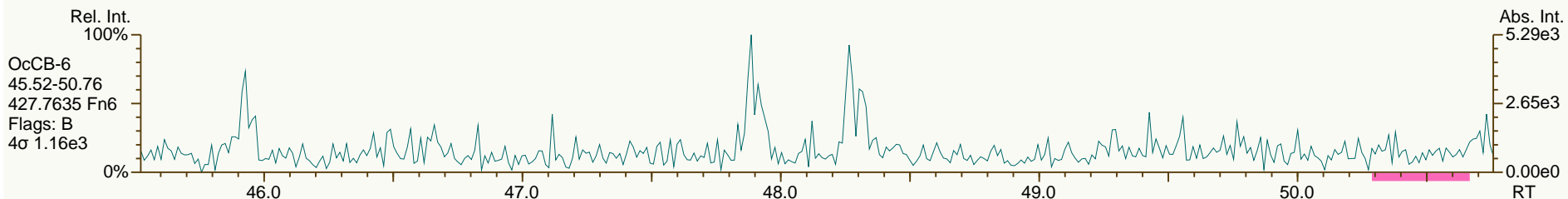
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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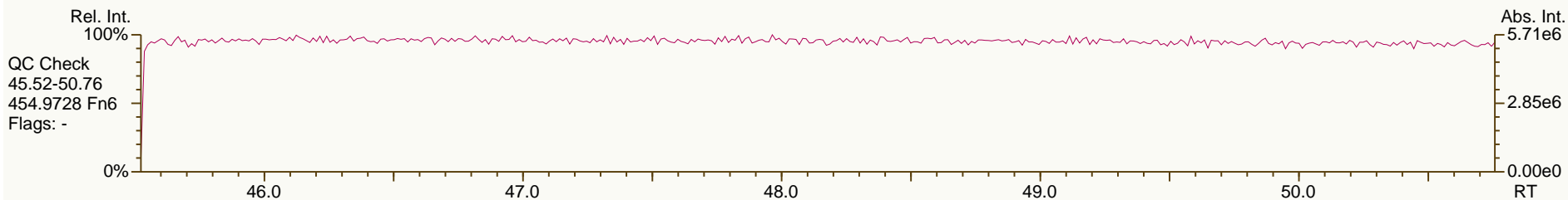
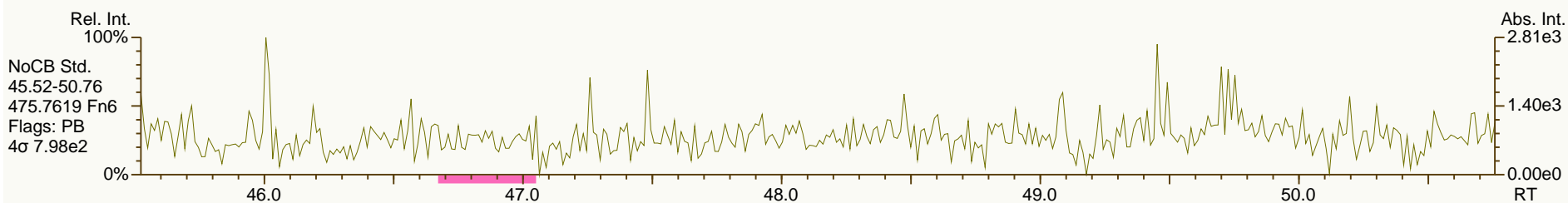
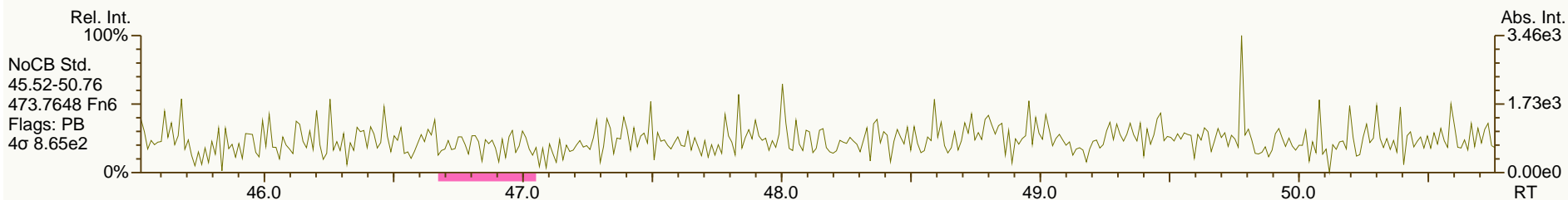
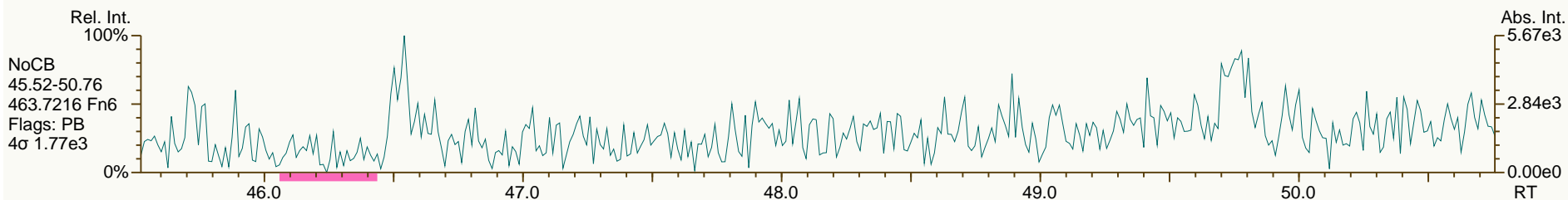
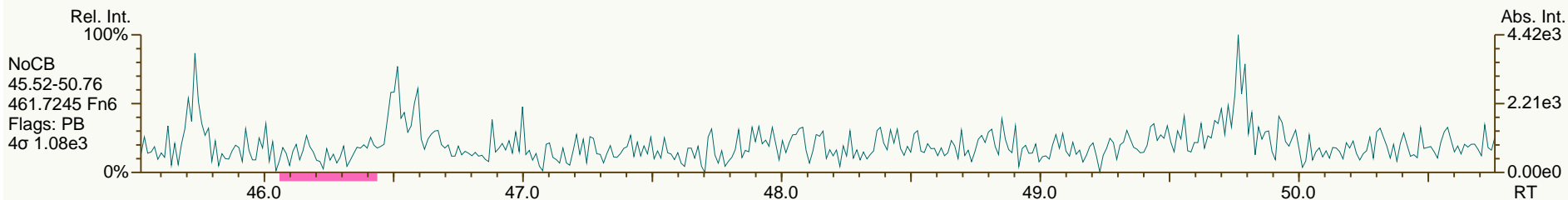
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

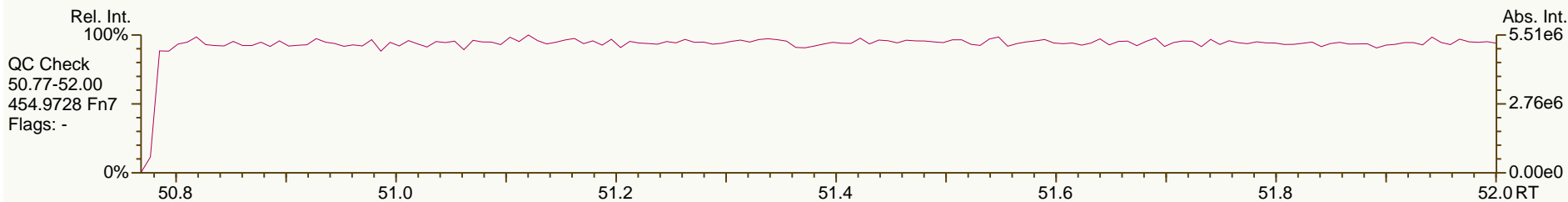
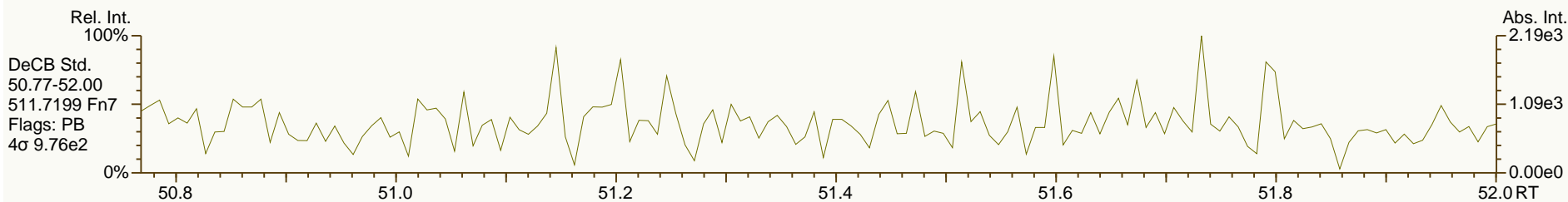
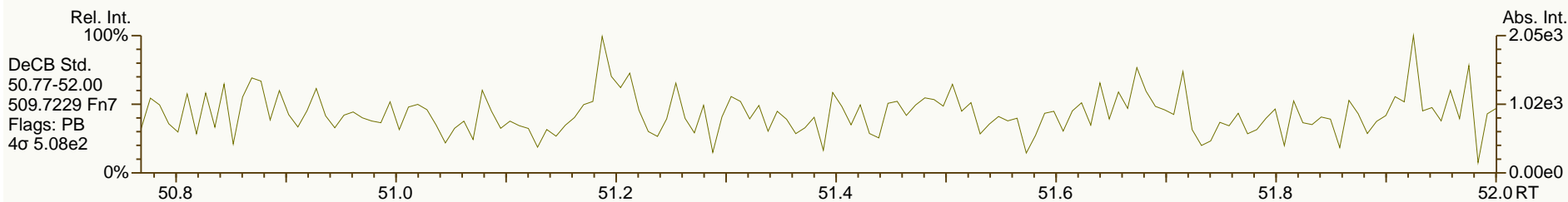
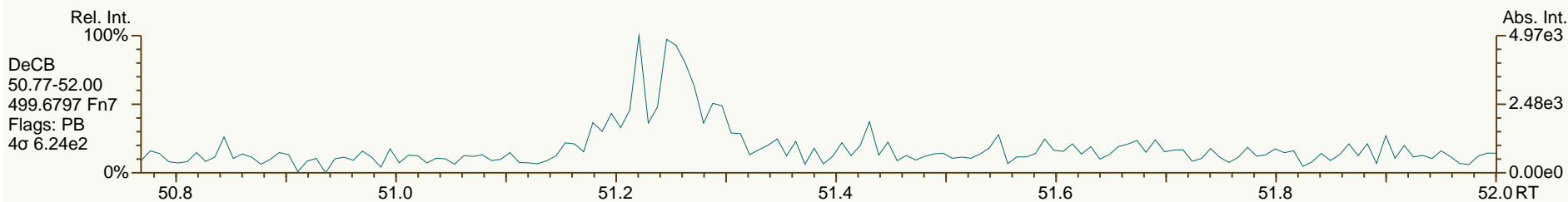
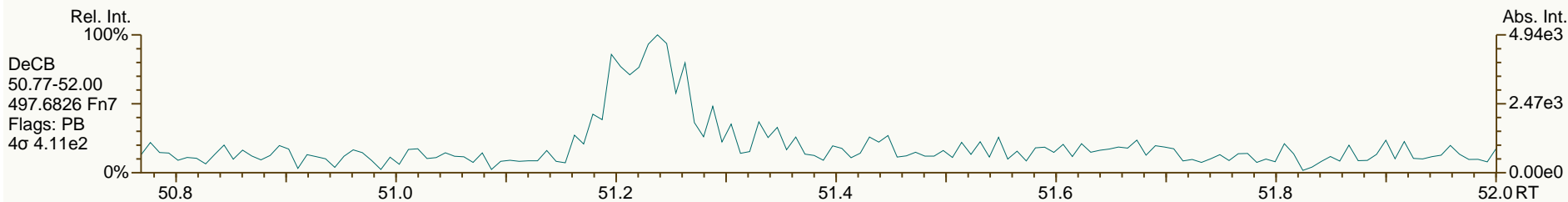
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
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## Experiment Calibration Report

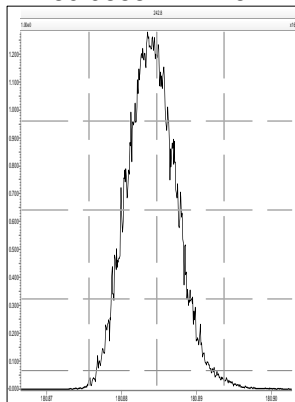
MassLynx 4.1 SCN 881

Page 1 of 1

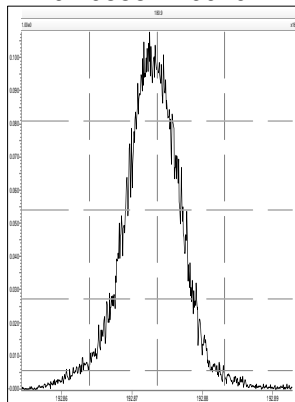
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Printed: Friday, December 20, 2013 14:51:56 Eastern Standard Time

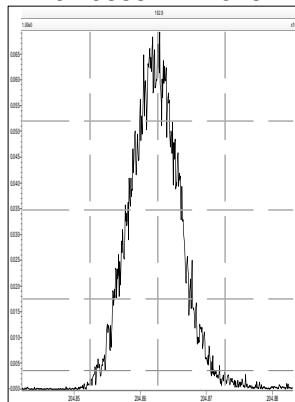
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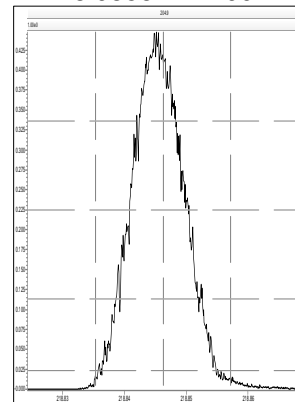
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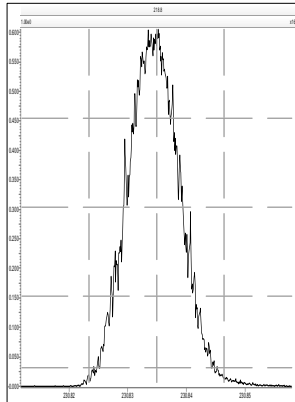
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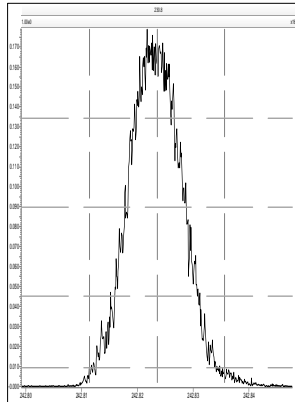
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M 230.9856 R 11523



M 242.9856 R 11311



## Experiment Calibration Report

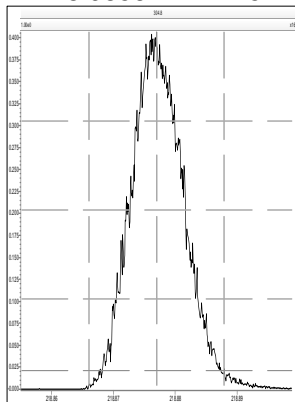
MassLynx 4.1 SCN 881

Page 1 of 1

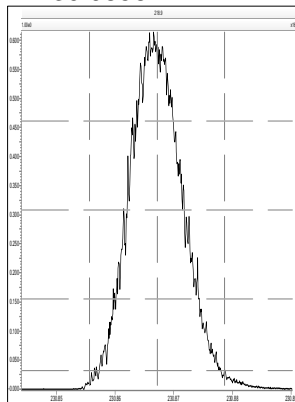
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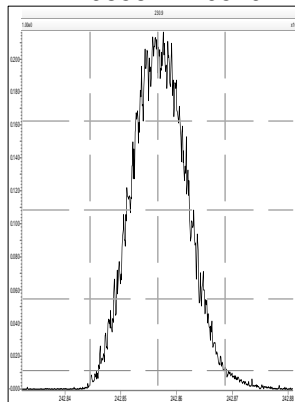
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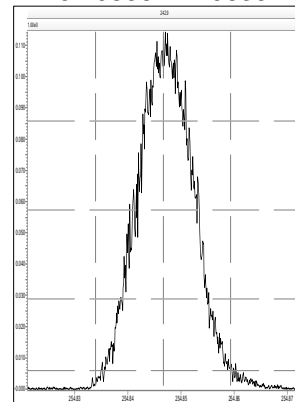
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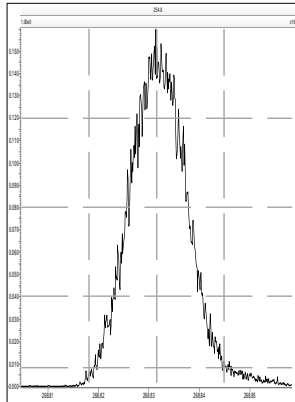
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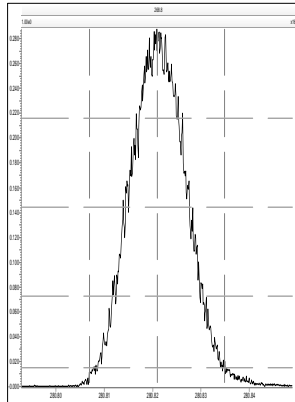
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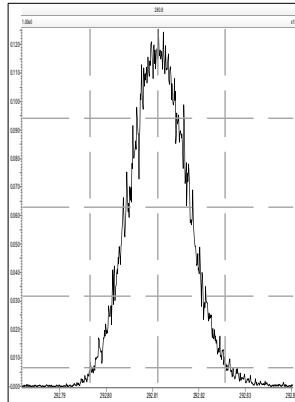
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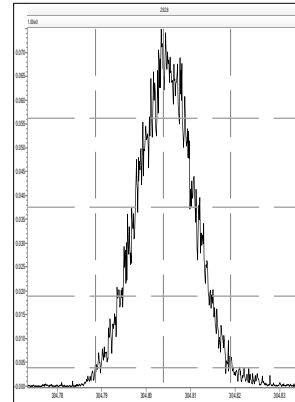
M 280.9824 R 10871



M 292.9824 R 10203



M 304.9824 R 10820



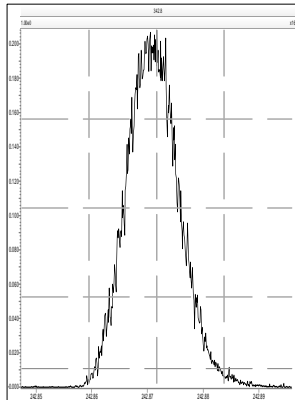
Experiment Calibration Report

MassLynx 4.1 SCN 881

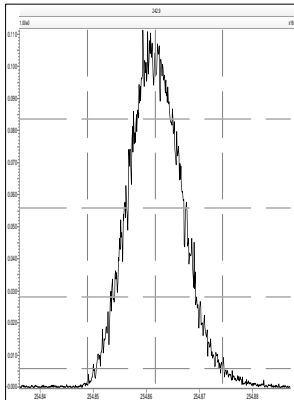
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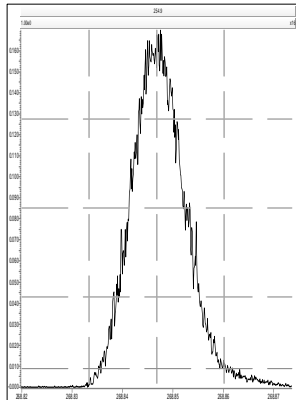
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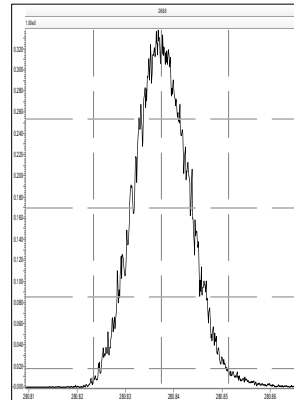
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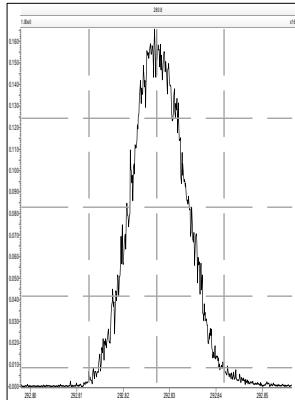
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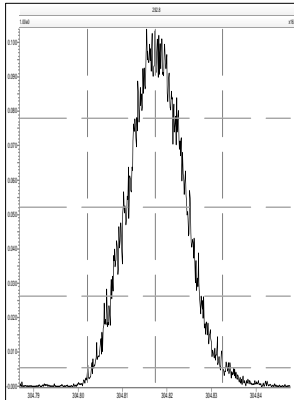
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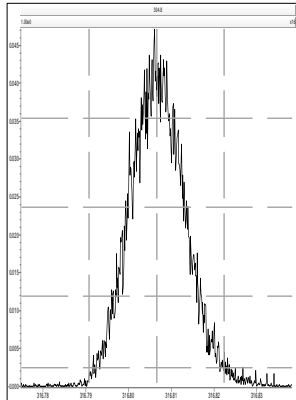
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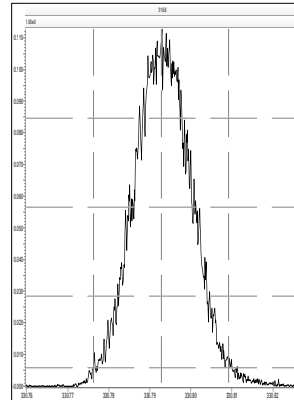
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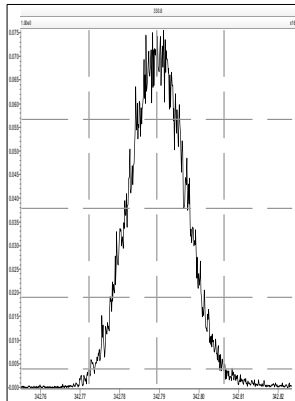
M 316.9824 R 10549



M 330.9792 R 9803



M 342.9792 R 10375





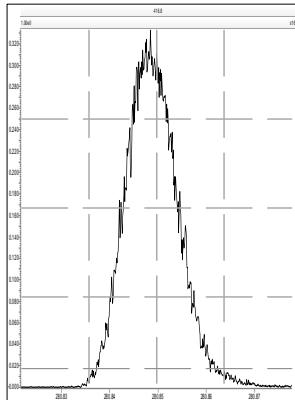
Experiment Calibration Report

MassLynx 4.1 SCN 881

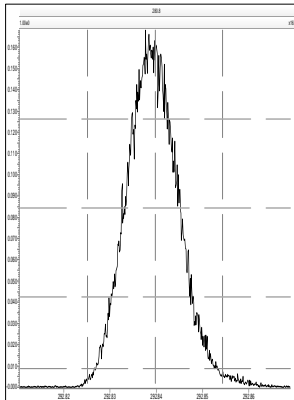
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Printed: Friday, December 20, 2013 14:53:27 Eastern Standard Time

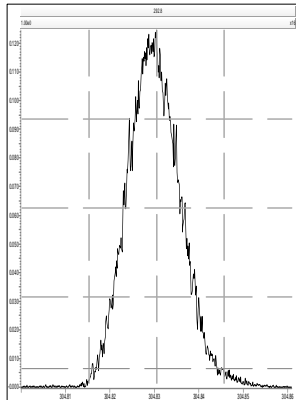
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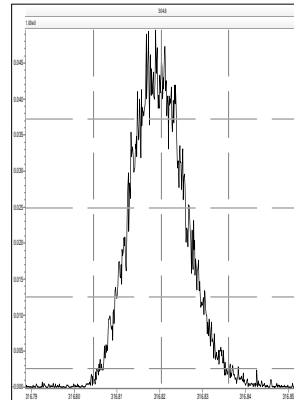
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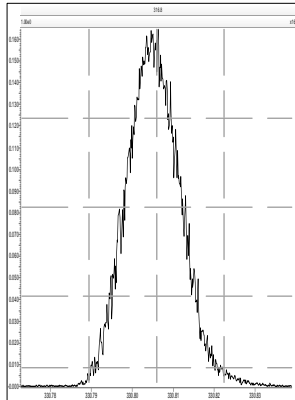
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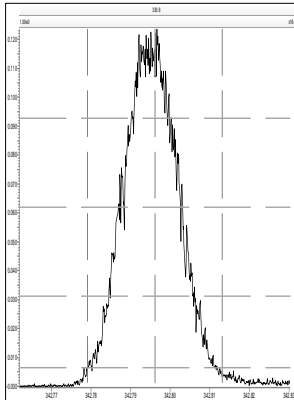
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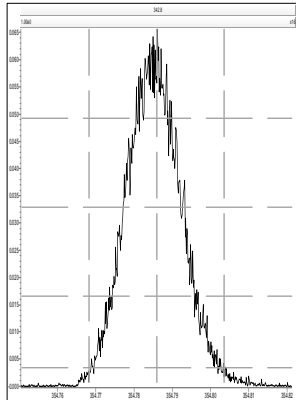
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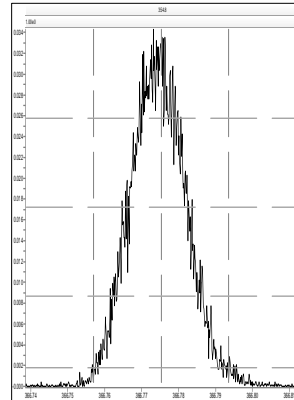
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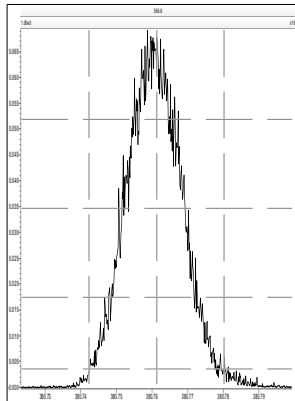
M 354.9792 R 10965



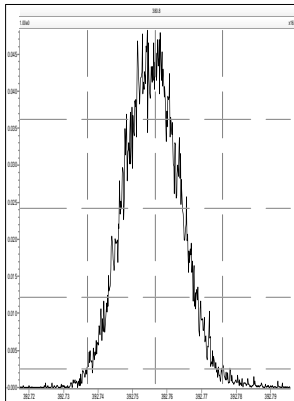
M 366.9792 R 10868



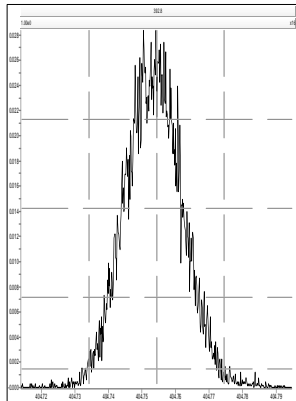
M 380.9760 R 10685



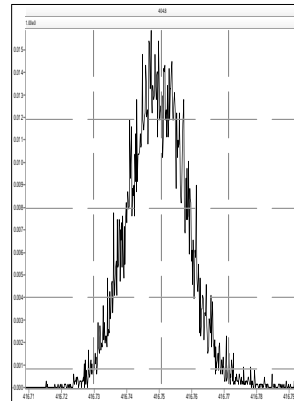
M 392.9760 R 10869



M 404.9760 R 10290



M 416.9760 R 11464



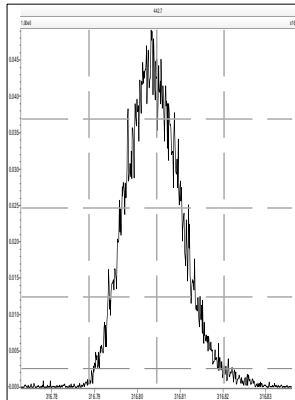
Experiment Calibration Report

MassLynx 4.1 SCN 881

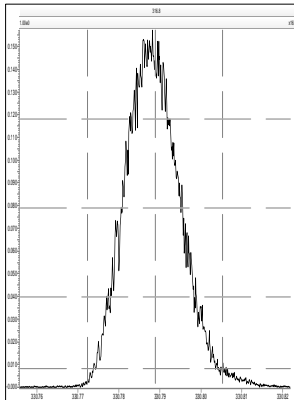
File: Experiment: pcb-2012-01.exp Reference: Pfk3.ref Function: 5 @ 200 (ppm)

Printed: Friday, December 20, 2013 14:54:02 Eastern Standard Time

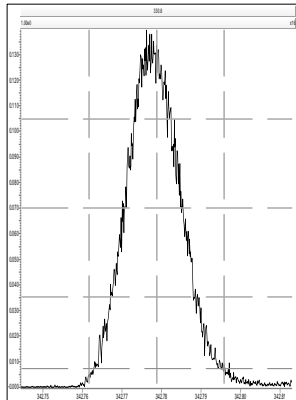
M 316.9824 R 10870



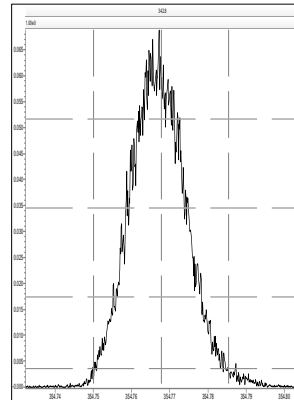
M 330.9792 R 10775



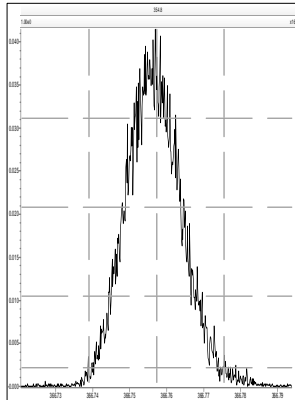
M 342.9792 R 10285



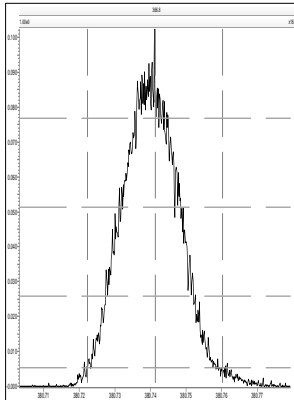
M 354.9792 R 10121



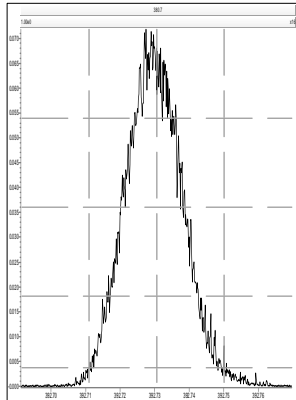
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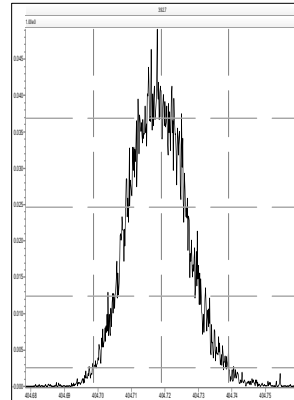
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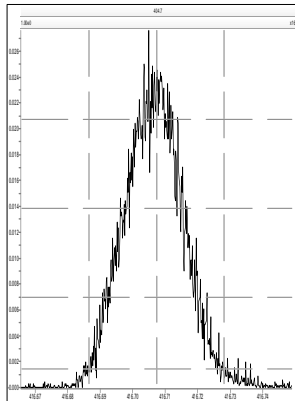
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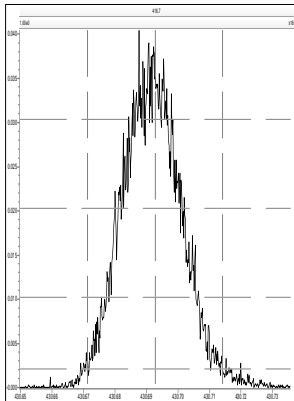
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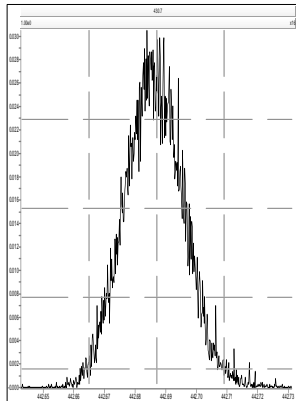
M 416.9760 R 10964



M 430.9728 R 10332



M 442.9728 R 10204



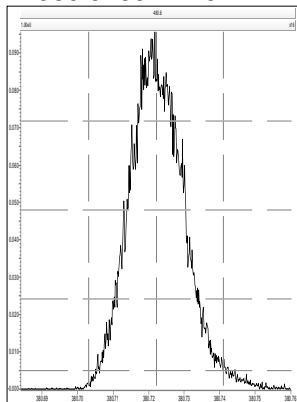
Experiment Calibration Report

MassLynx 4.1 SCN 881

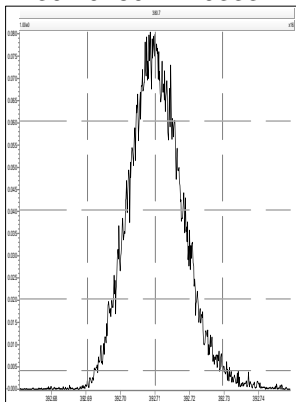
File: Experiment: pcb-2012-01.exp Reference: Pfk3.ref Function: 6 @ 200 (ppm)

Printed: Friday, December 20, 2013 14:55:29 Eastern Standard Time

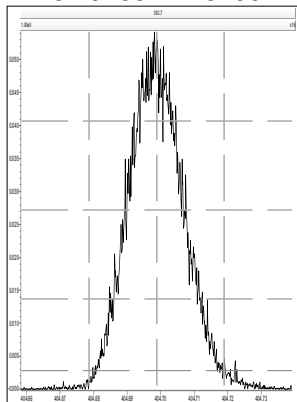
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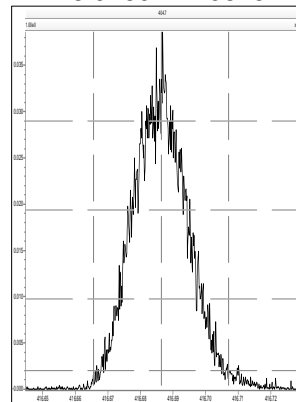
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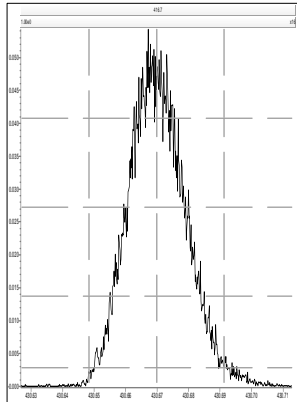
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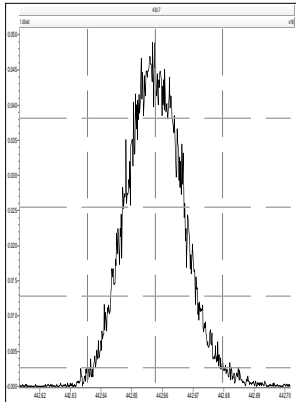
M 416.9760 R 10825



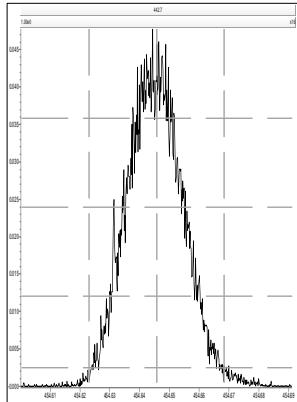
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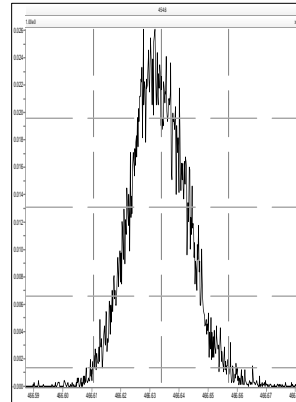
M 442.9728 R 10204



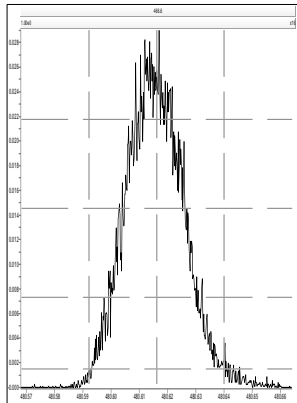
M 454.9728 R 10286



M 466.9728 R 10246



M 480.9696 R 10165



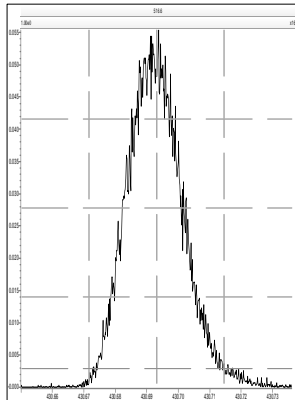
Experiment Calibration Report

MassLynx 4.1 SCN 881

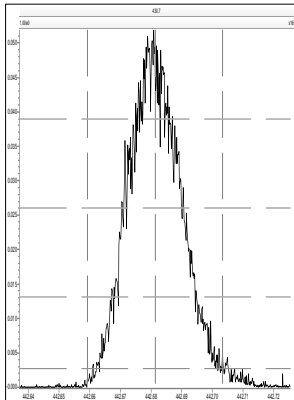
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Printed: Friday, December 20, 2013 14:56:11 Eastern Standard Time

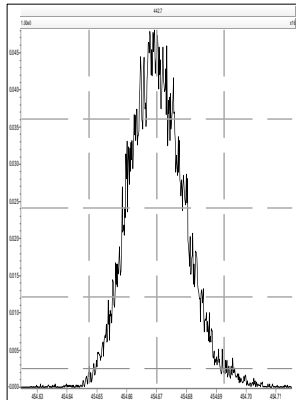
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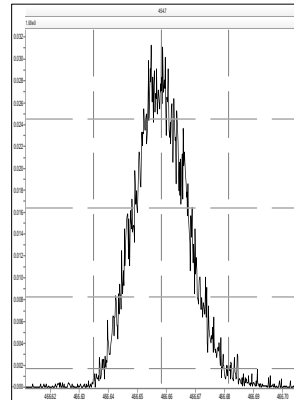
M 442.9728 R 11468



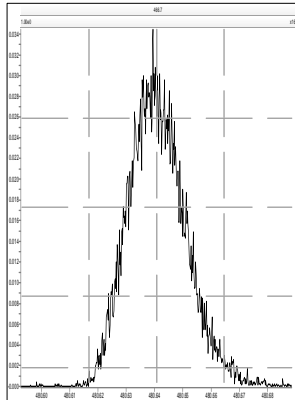
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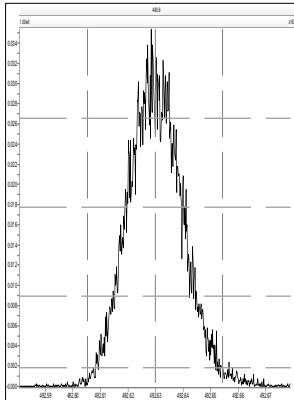
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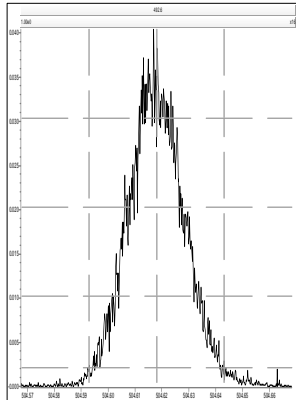
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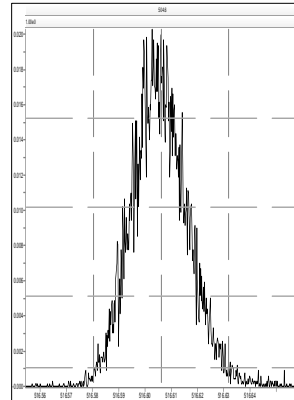
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M 504.9696 R 10504



M 516.9697 R 11012



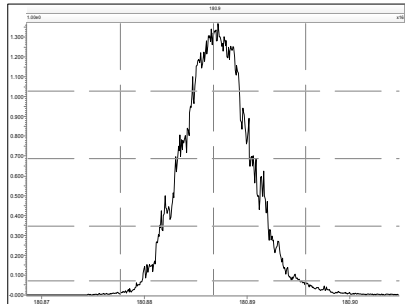
## Resolution Check Report

MassLynx 4.1 SCN 881

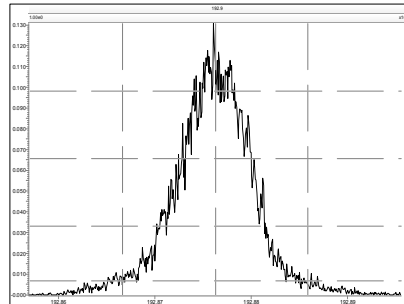
Page 1 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

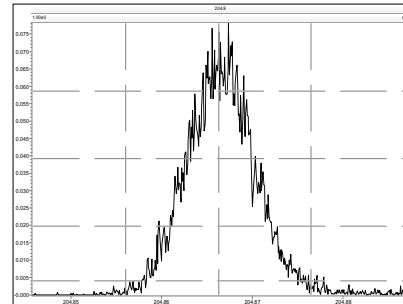
M 180.9888 R 11709



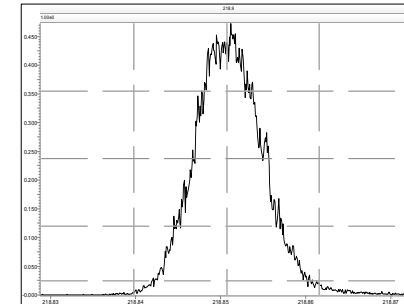
M 192.9888 R 10531



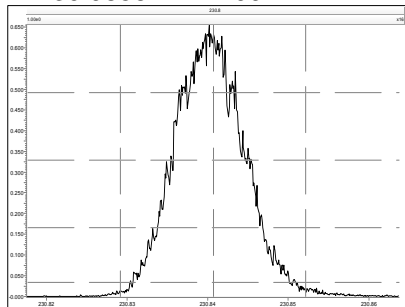
M 204.9888 R 11823



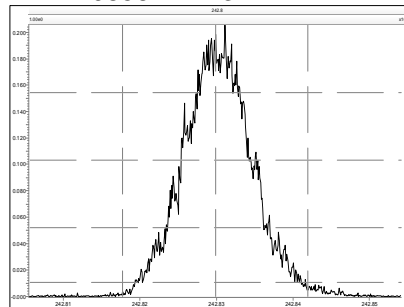
M 218.9856 R 12380



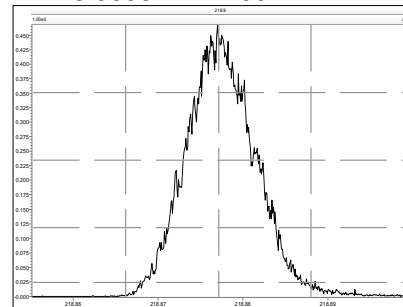
M 230.9856 R 11709



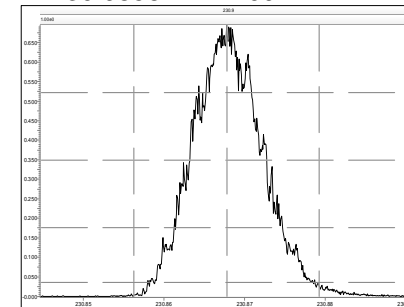
M 242.9856 R 11344



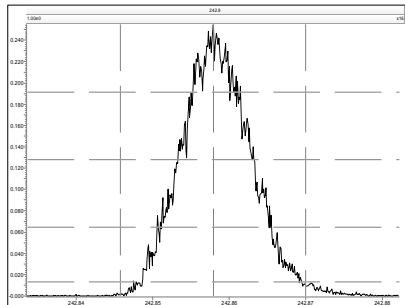
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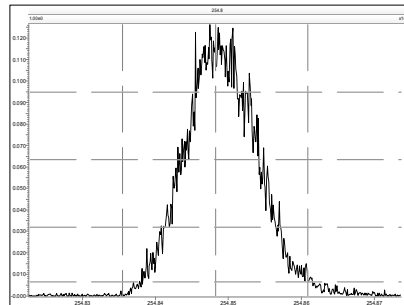
M 230.9856 R 11709



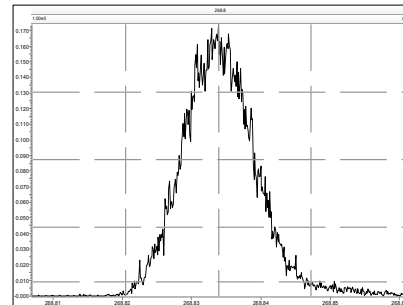
M 242.9856 R 11737



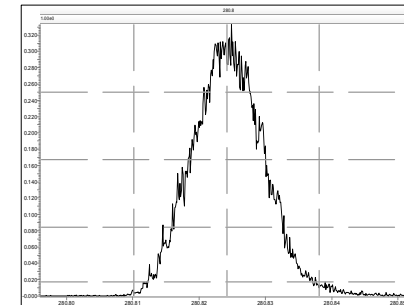
M 254.9856 R 11378



M 268.9824 R 11848



M 280.9824 R 11210

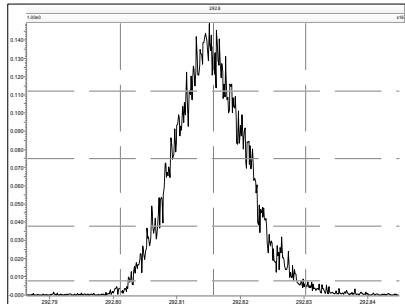


## Resolution Check Report

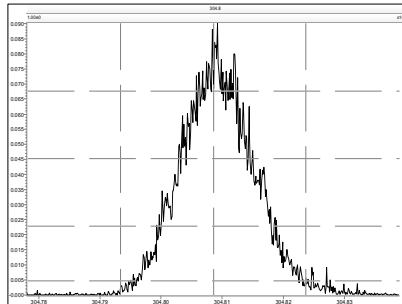
## MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

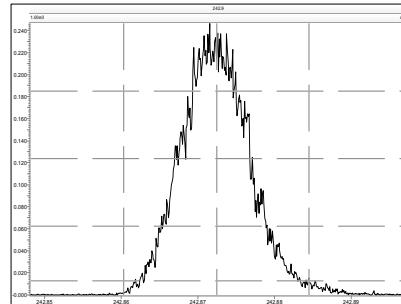
M 292.9824 R 11577



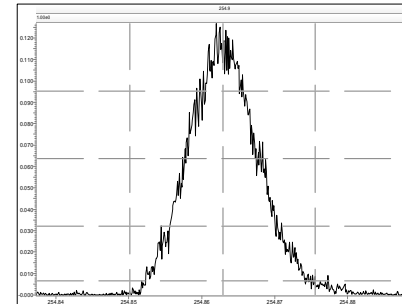
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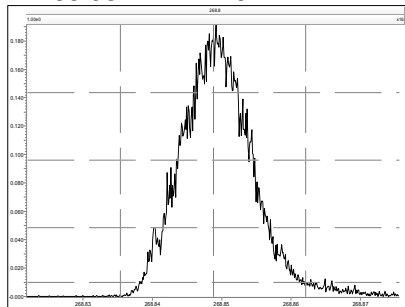
M 242.9856 R 11827



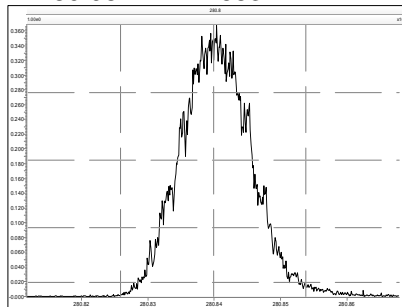
M 254.9856 R 11793



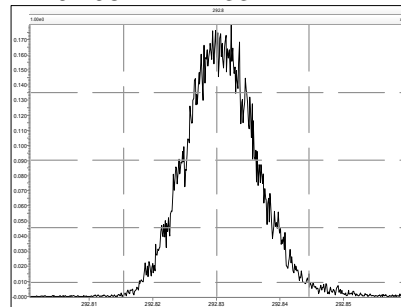
M 268.9824 R 11467



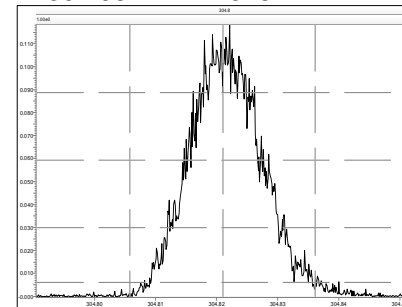
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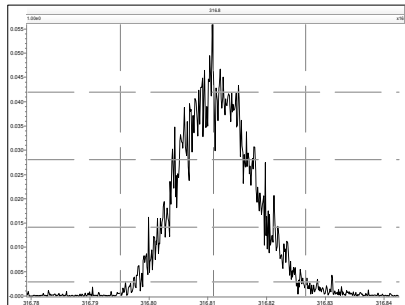
M 292.9824 R 11337



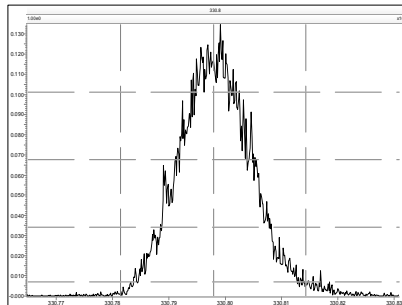
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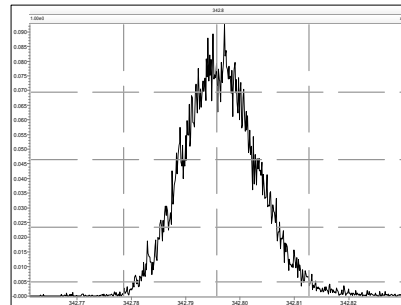
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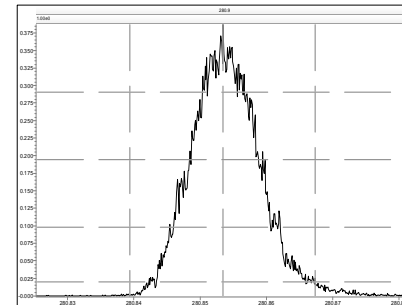
M 330.9792 R 11186



M 342.9792 R 11340



M 280.9824 R 11876



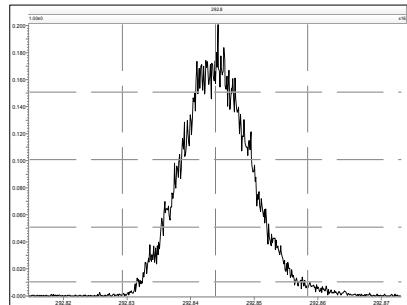
## Resolution Check Report

MassLynx 4.1 SCN 881

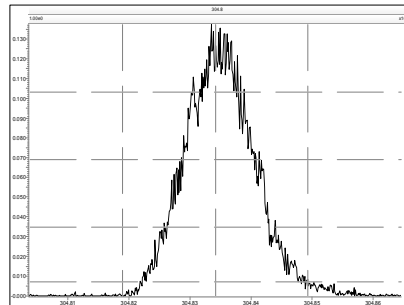
Page 3 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

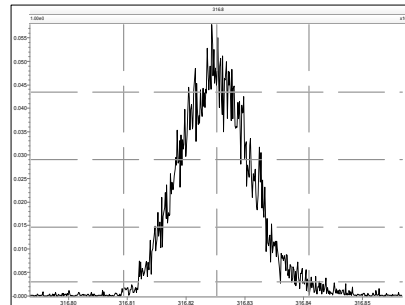
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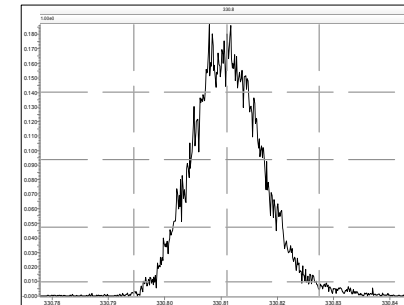
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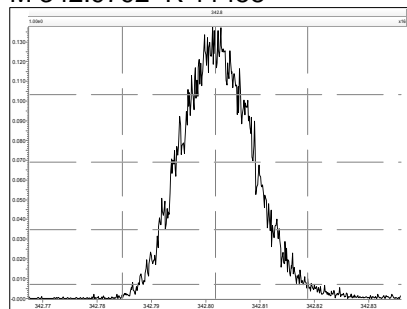
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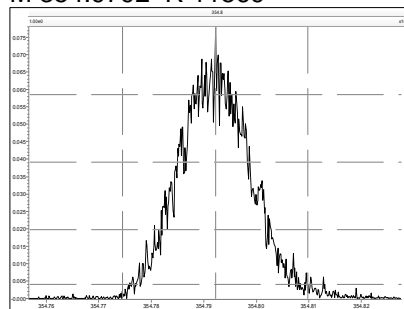
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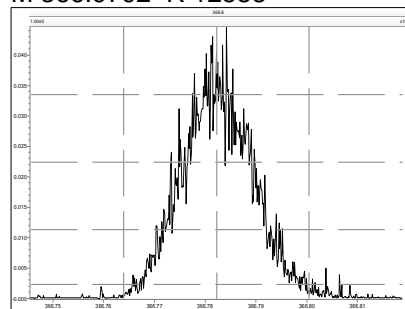
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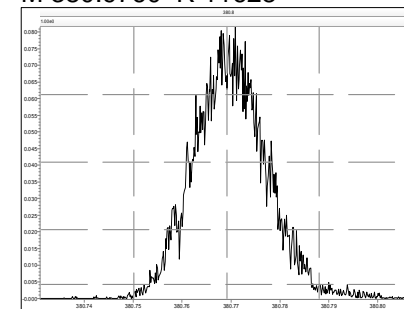
M 354.9792 R 11569



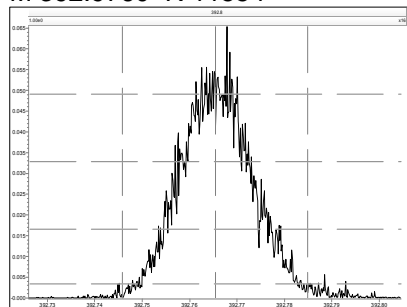
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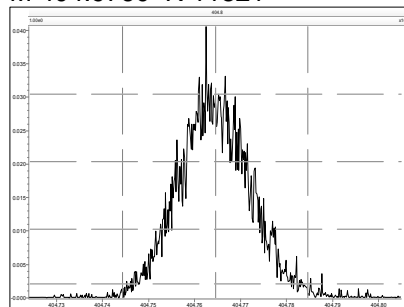
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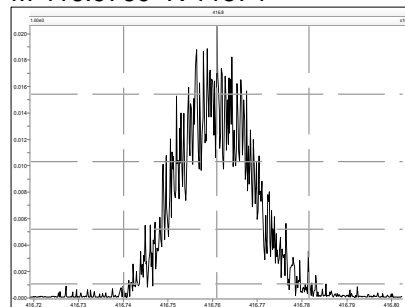
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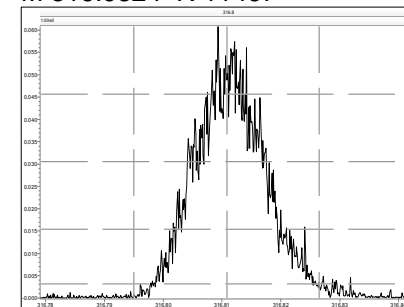
M 404.9760 R 11821



M 416.9760 R 11574



M 316.9824 R 11467

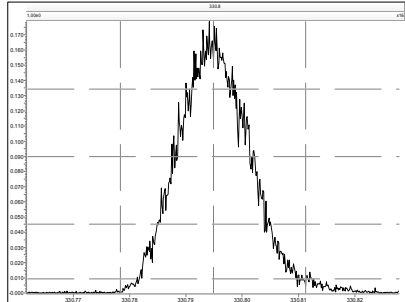


## Resolution Check Report

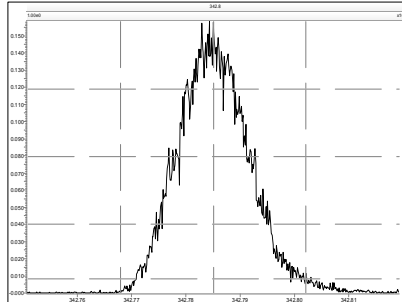
## MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

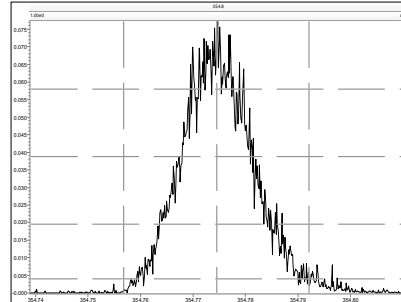
M 330.9792 R 12118



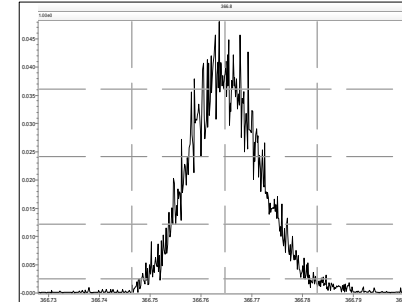
M 342.9792 R 11633



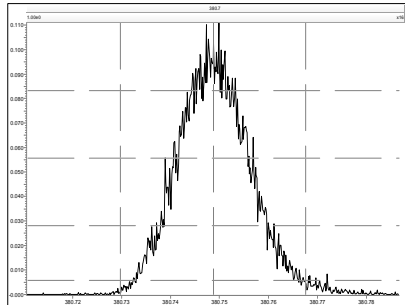
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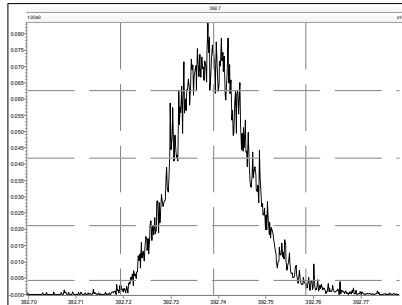
M 366.9792 R 11396



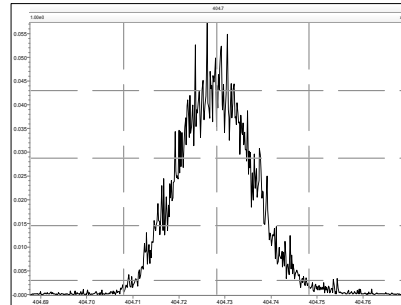
M 380.9760 R 11086



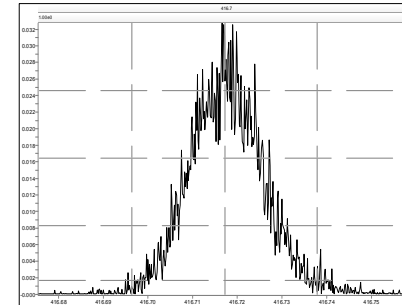
M 392.9760 R 10917



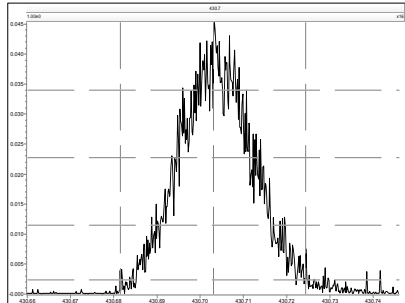
M 404.9760 R 11685



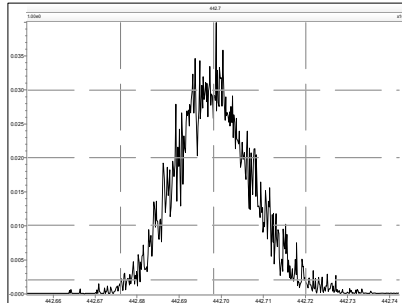
M 416.9760 R 11737



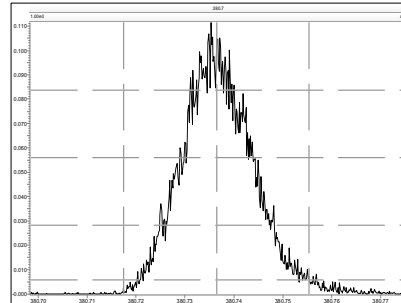
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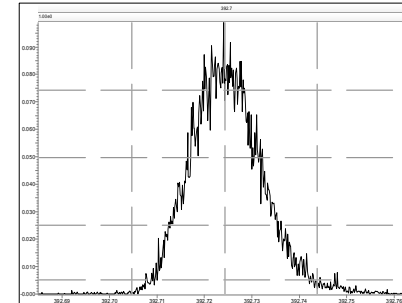
M 442.9728 R 11628



M 380.9760 R 11522



M 392.9760 R 11852





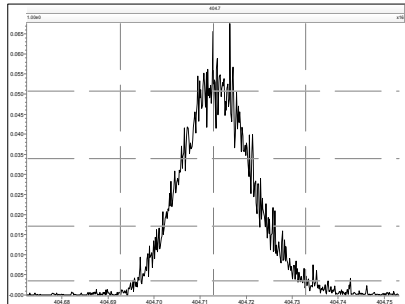
## Resolution Check Report

MassLynx 4.1 SCN 881

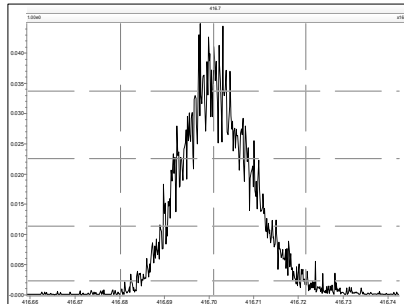
Page 5 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

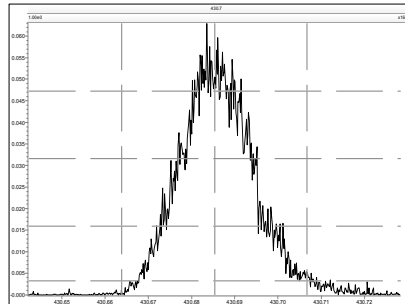
M 404.9760 R 11798



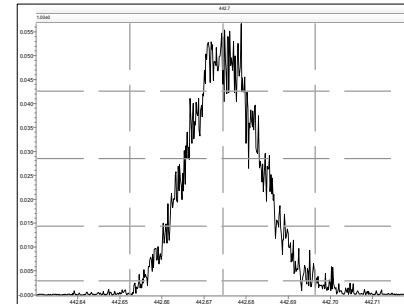
M 416.9760 R 11962



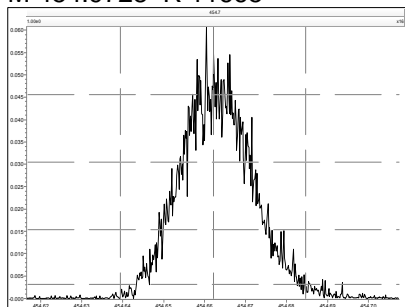
M 430.9728 R 11403



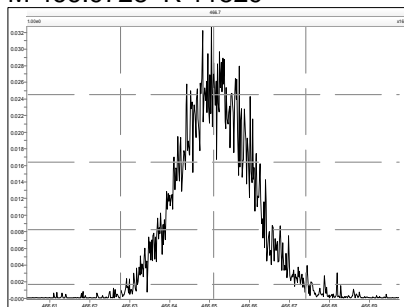
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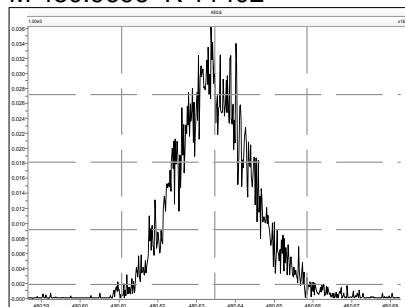
M 454.9728 R 11665



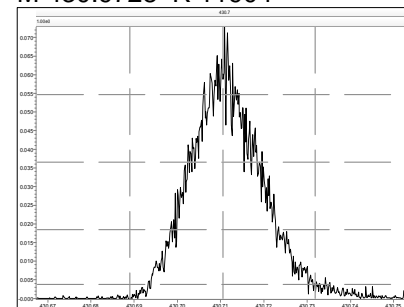
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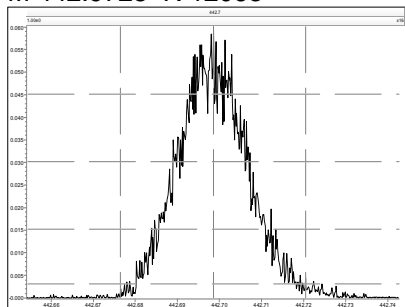
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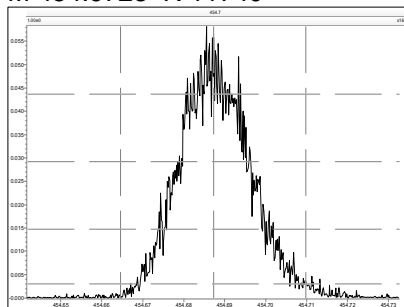
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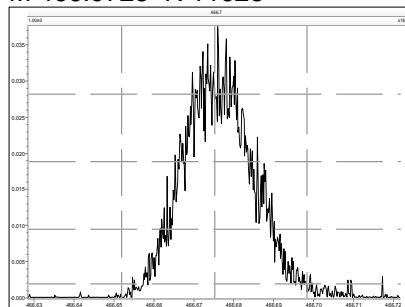
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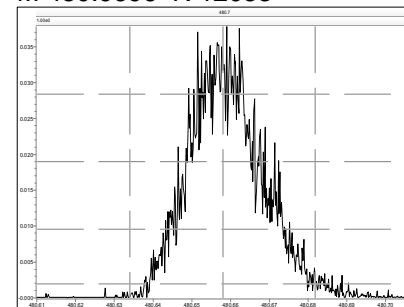
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M 466.9728 R 11628



M 480.9696 R 12053



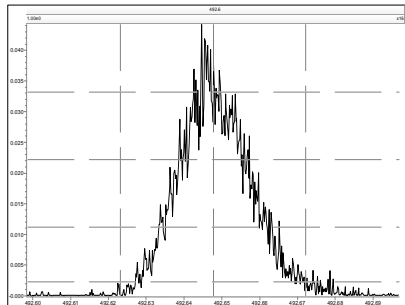
## Resolution Check Report

MassLynx 4.1 SCN 881

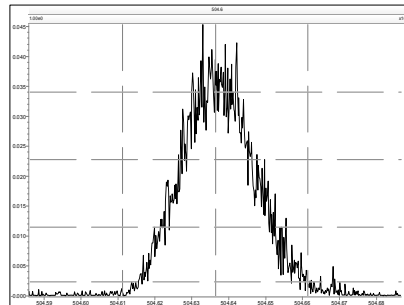
Page 6 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

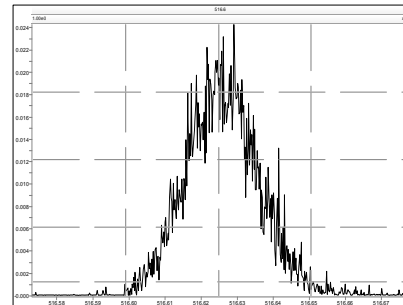
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M 504.9696 R 11467



M 516.9697 R 12194

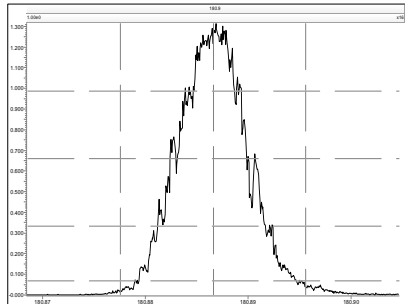


## Resolution Check Report

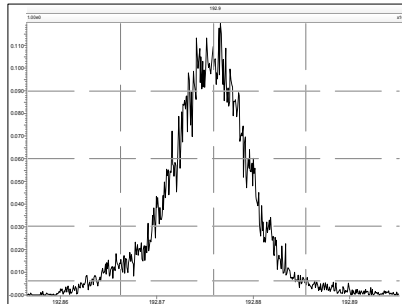
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

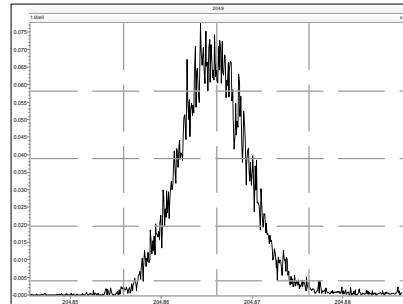
M 180.9888 R 11682



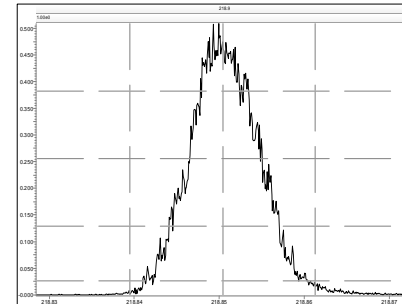
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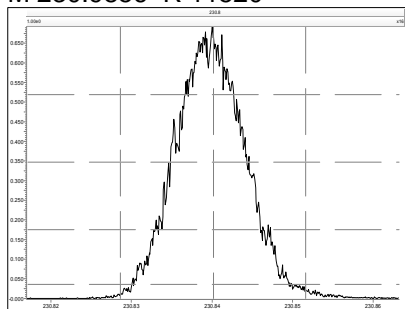
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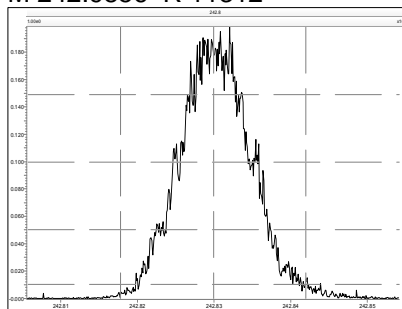
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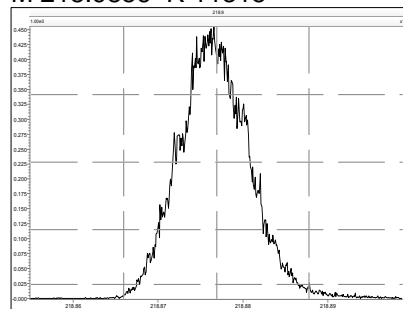
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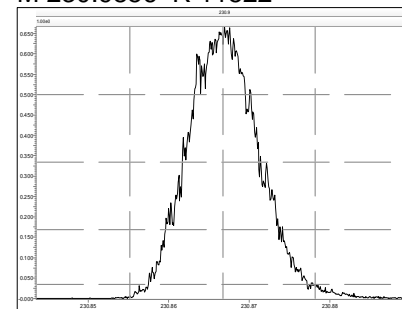
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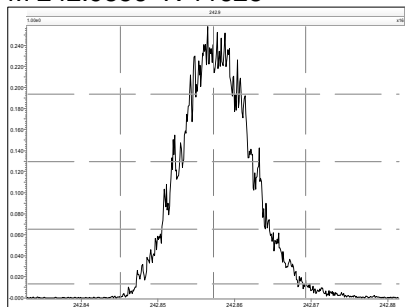
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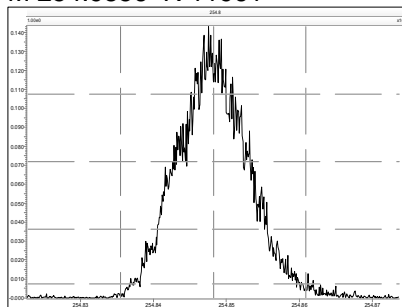
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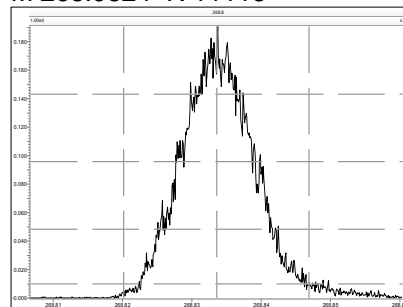
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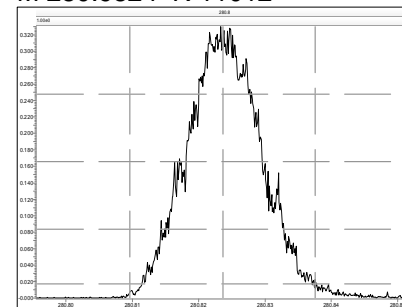
M 254.9856 R 11961



M 268.9824 R 11118



M 280.9824 R 11012

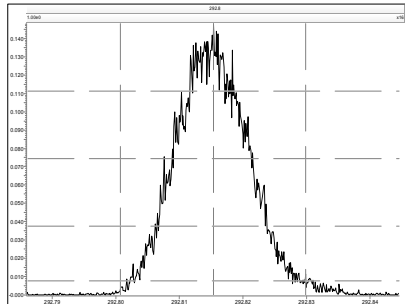


## Resolution Check Report

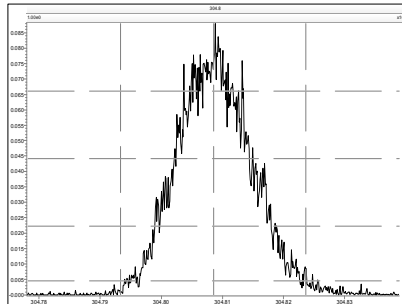
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

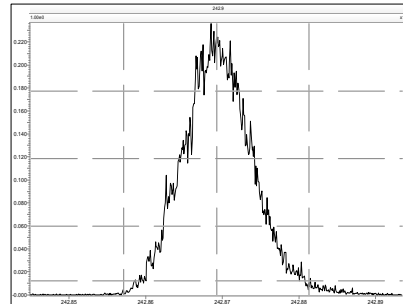
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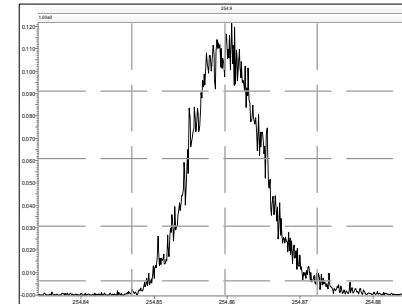
M 304.9824 R 11317



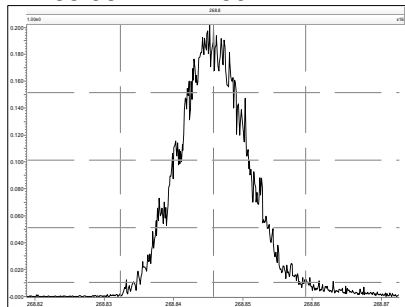
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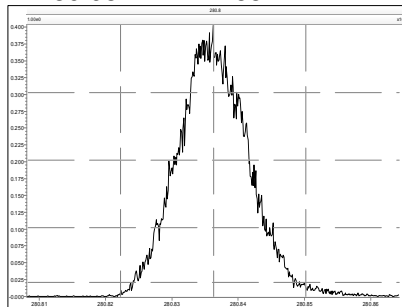
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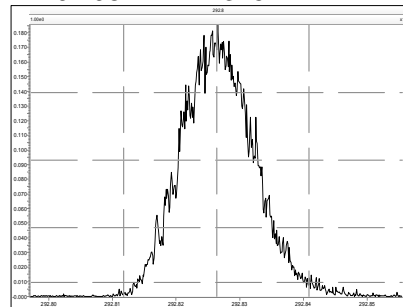
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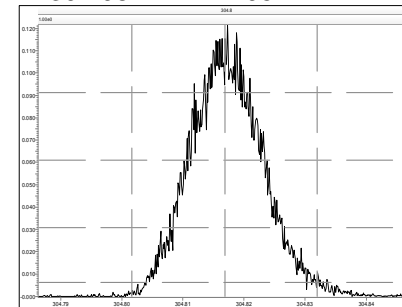
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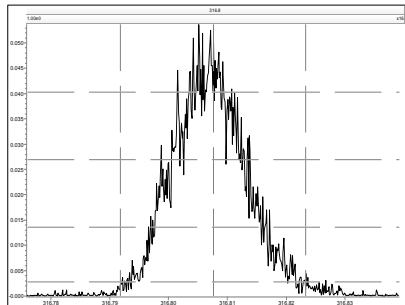
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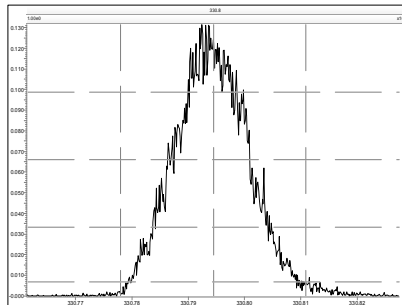
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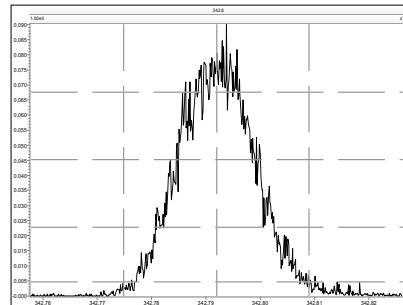
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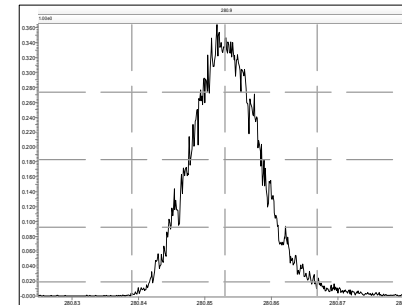
M 330.9792 R 11212



M 342.9792 R 10706



M 280.9824 R 11548

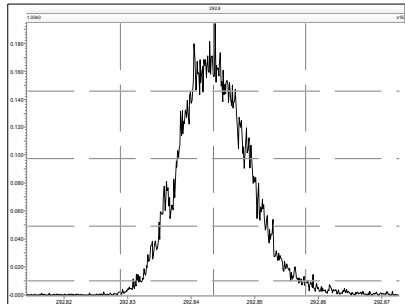


## Resolution Check Report

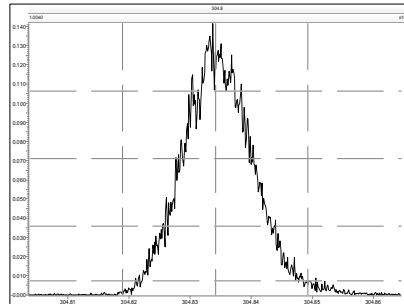
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Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

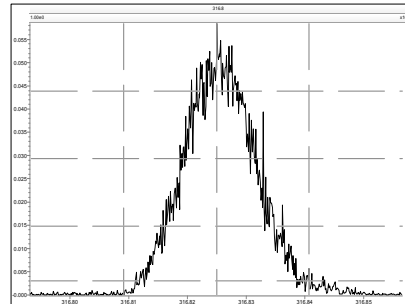
M 292.9824 R 11417



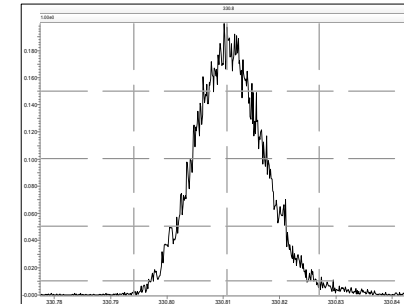
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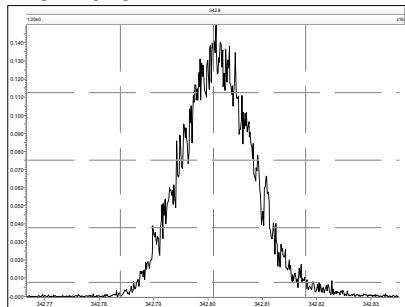
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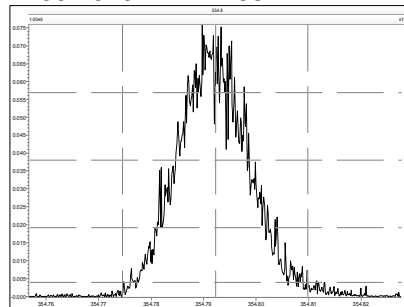
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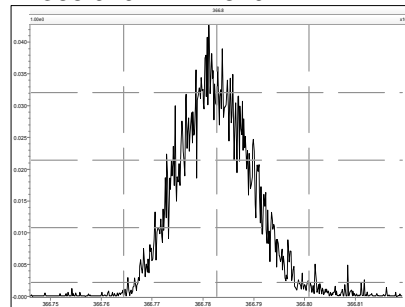
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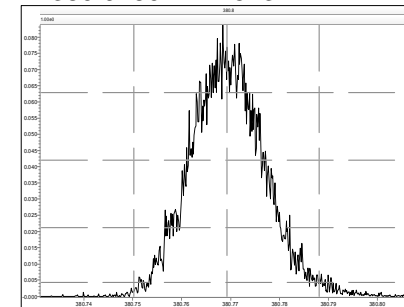
M 354.9792 R 11788



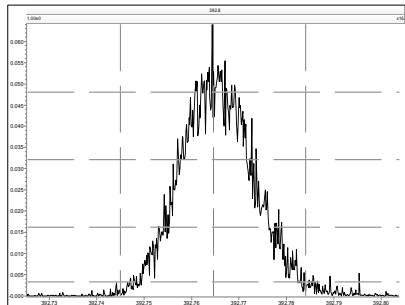
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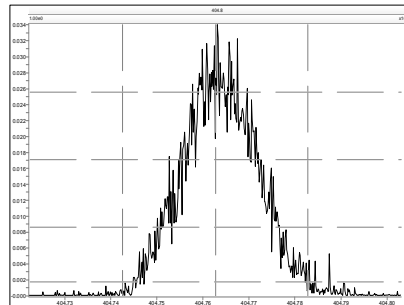
M 380.9760 R 11573



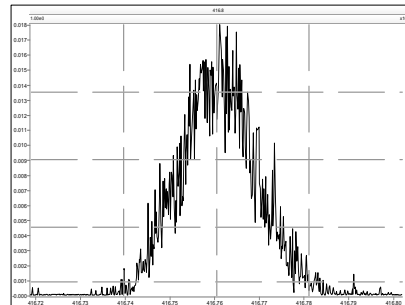
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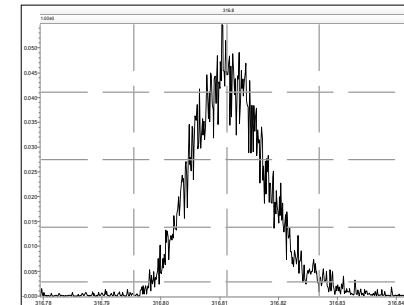
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M 416.9760 R 11908



M 316.9824 R 11415

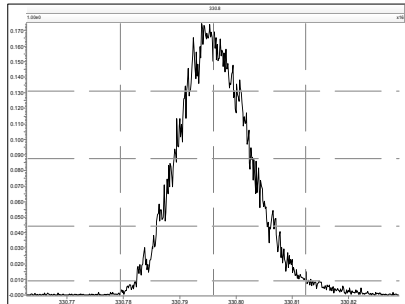


## Resolution Check Report

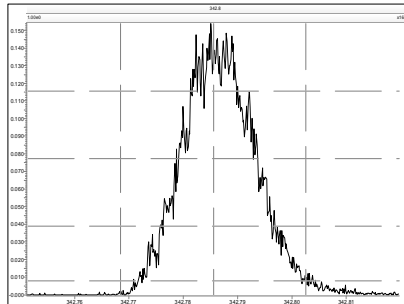
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Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

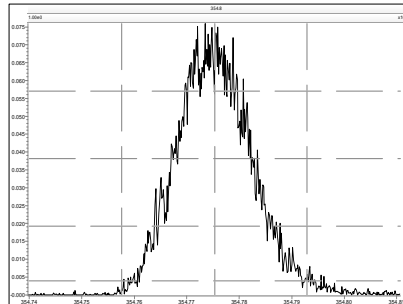
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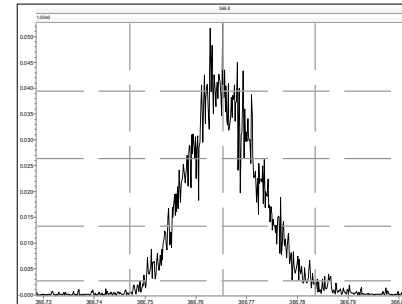
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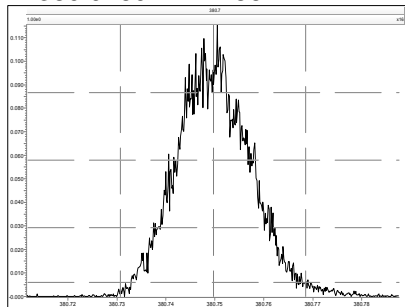
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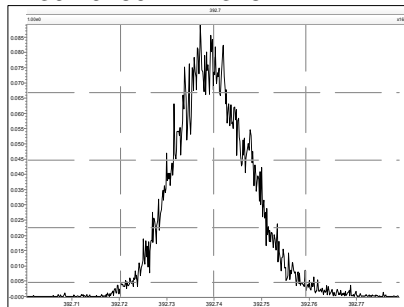
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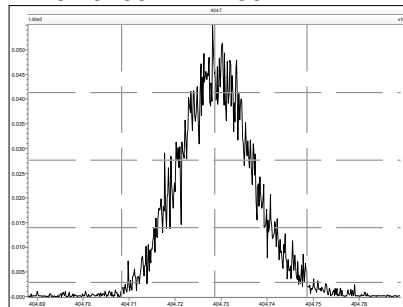
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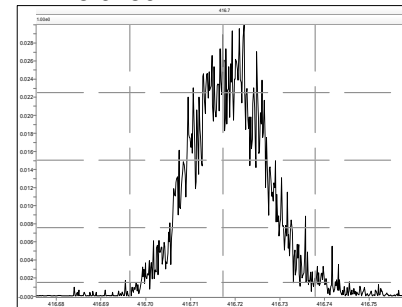
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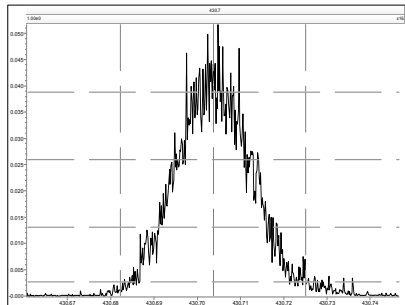
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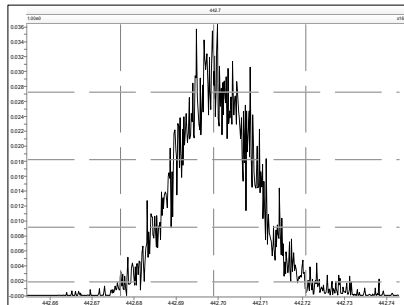
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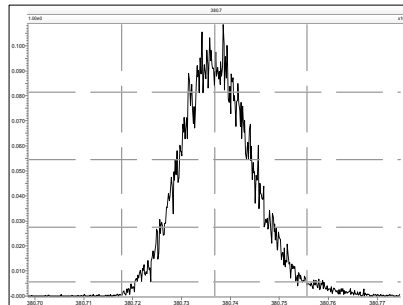
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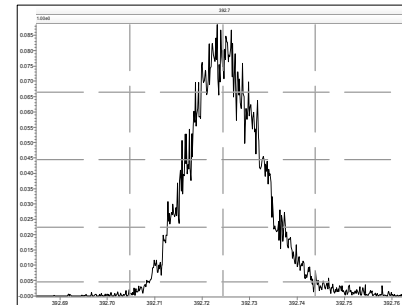
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M 380.9760 R 11287



M 392.9760 R 11340

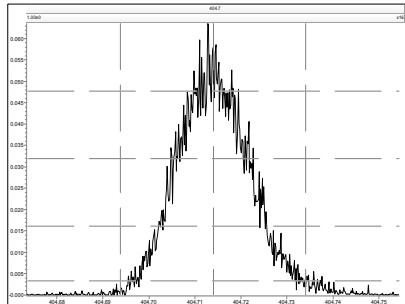


## Resolution Check Report

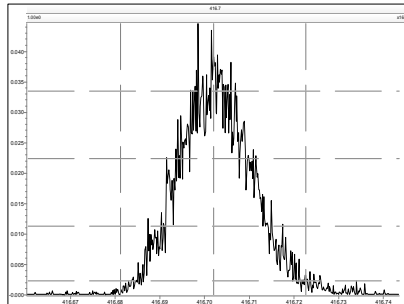
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

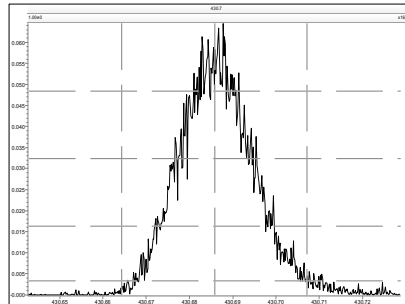
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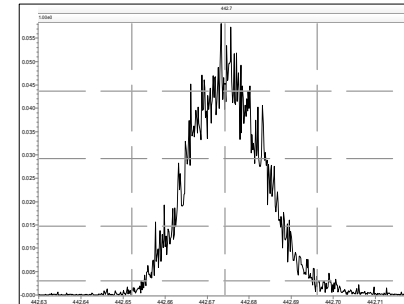
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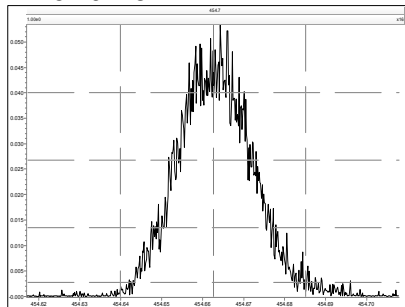
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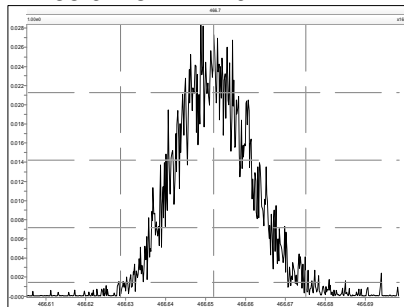
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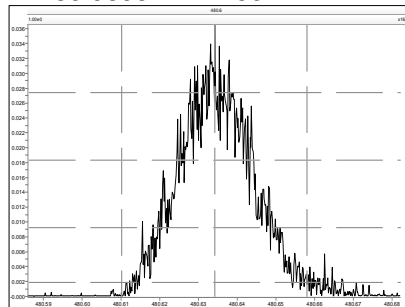
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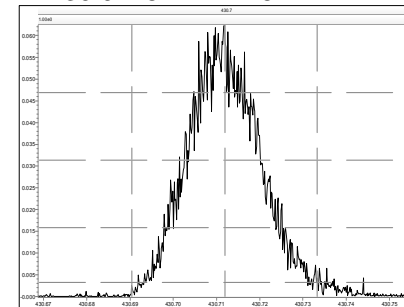
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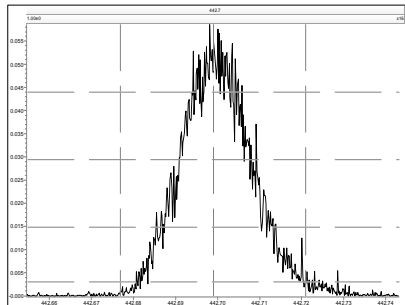
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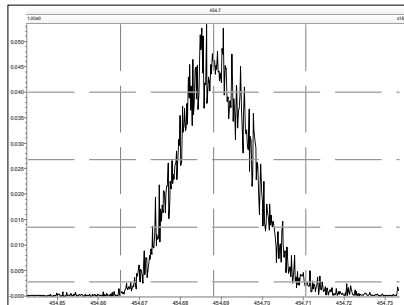
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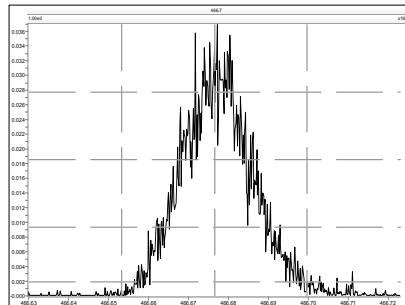
M 442.9728 R 11717



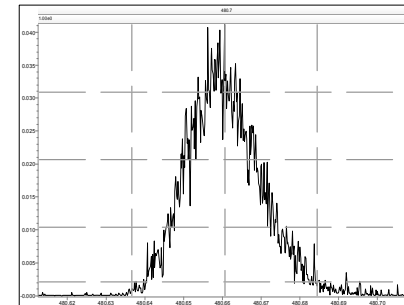
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M 466.9728 R 12498



M 480.9696 R 11221



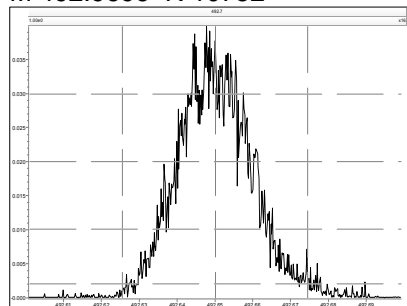
## Resolution Check Report

MassLynx 4.1 SCN 881

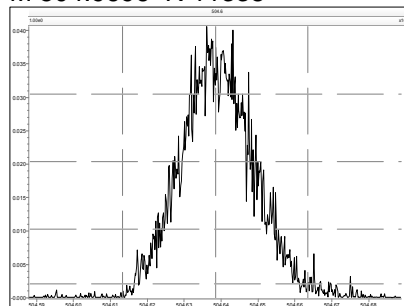
Page 6 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

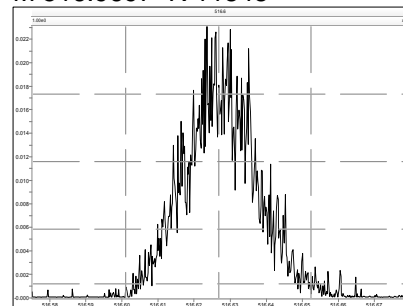
M 492.9696 R 10752



M 504.9696 R 11338



M 516.9697 R 11848





**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140327X02 Analysis Date: 27-MAR-2014 11:32:47  
 Lab ID: OPR1\_11899\_PCB

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	115	50 - 150	Y
PCB-3 4-MoCB	50	114	50 - 150	Y
PCB-4 22'-DiCB	50	94.1	50 - 150	Y
PCB-15 44'-DiCB	50	108	50 - 150	Y
PCB-19 22'6'-TrCB	50	95.1	50 - 150	Y
PCB-37 344'-TrCB	50	111	50 - 150	Y
PCB-54 22'66'-TeCB	50	95.8	50 - 150	Y
PCB-77 33'44'-TeCB	50	98.5	50 - 150	Y
PCB-81 344'5'-TeCB	50	101	50 - 150	Y
PCB-104 22'466'-PeCB	50	96.1	50 - 150	Y
PCB-105 233'44'-PeCB	50	93.8	50 - 150	Y
PCB-114 2344'5'-PeCB	50	97.1	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	95.4	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	95.3	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	107	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	92.1	50 - 150	Y
PCB-156/157 ...-HxCB	100	97	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	97	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	97	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	92.3	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	104	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	94.9	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	98.1	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	97.8	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	98.8	50 - 150	Y
PCB-209 DeCB	50	96.2	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 30 Mar 2014 14:24 Analyst: LB

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140327X02 Analysis Date: 27-MAR-2014 11:32:47  
 Lab ID: OPR1\_11899\_PCB

LABELED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	74.5	15	-	140	Y
ES PCB-3	100	78.6	15	-	140	Y
ES PCB-4	100	91.7	30	-	140	Y
ES PCB-15	100	95.2	30	-	140	Y
ES PCB-19	100	90.7	30	-	140	Y
ES PCB-37	100	84.2	30	-	140	Y
ES PCB-54	100	91.5	30	-	140	Y
ES PCB-77	100	94.4	30	-	140	Y
ES PCB-81	100	92.9	30	-	140	Y
ES PCB-104	100	98.5	30	-	140	Y
ES PCB-105	100	93.3	30	-	140	Y
ES PCB-114	100	91.1	30	-	140	Y
ES PCB-118	100	95.2	30	-	140	Y
ES PCB-123	100	92.6	30	-	140	Y
ES PCB-126	100	94.7	30	-	140	Y
ES PCB-153	100	92.7	30	-	140	Y
ES PCB-155	100	92.6	30	-	140	Y
ES PCB-156/157	200	77.5	30	-	140	Y
ES PCB-167	100	78.3	30	-	140	Y
ES PCB-169	100	75.8	30	-	140	Y
ES PCB-170	100	90.1	30	-	140	Y
ES PCB-180	100	90.7	30	-	140	Y
ES PCB-188	100	109	30	-	140	Y
ES PCB-189	100	96.9	30	-	140	Y
ES PCB-202	100	101	30	-	140	Y
ES PCB-205	100	88	30	-	140	Y
ES PCB-206	100	91.5	30	-	140	Y
ES PCB-208	100	102	30	-	140	Y
ES PCB-209	100	86.4	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	86.7	40	-	125	Y
CS PCB-111	100	101	40	-	125	Y
CS PCB-178	100	119	40	-	125	Y

Processed: 30 Mar 2014 14:24 Analyst: LB

Lab ID: OPR1\_11899\_PCB  
 Client ID: 0\_11899\_OPR001  
 Datafile: 140327X02

ACQ: 27-Mar-2014 11:32:47 LKB  
 UTP: 30-Mar-2014 13:53 LKB  
 RPT: 30-Mar-2014 14:23 LB

Wt/Vol: 1 µL  
 J-level: 10 pg/uL Split: 1  
 Stds (pg): JS: 100 ES: 100 CS/SS: 100

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140327\_PCB\_XA  
 Checkcode: 756-952-MJJ  
 Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.79		1.0006	1.0006	0	5.75E+07	0.79	1.15	49.3	7.12E+04	0.632
PCB-81 344'5'-TeCB	32.31		1.0005	1.0005	0	5.60E+07	0.79	1.12	50.7	7.12E+04	0.707
PCB-105 233'44'-PeCB	35.78		1.0006	1.0007	+0.2	4.39E+07	0.62	1.11	46.9	1.83E+04	0.205
PCB-114 2344'5'-PeCB	35.24		1.0007	1.0007	0	4.86E+07	0.62	1.20	48.6	1.83E+04	0.194
PCB-118 23'44'5'-PeCB	34.77		1.0006	1.0006	0	4.70E+07	0.61	1.19	47.7	1.83E+04	0.186
PCB-123 23'44'5'-PeCB	34.49		1.0006	1.0006	0	4.76E+07	0.62	1.21	47.7	1.83E+04	0.186
PCB-126 33'44'5'-PeCB	38.39		1.0005	1.0005	0	4.31E+07	0.64	1.11	53.3	6.17E+03	0.0828
PCB-156/157 ...-HxCB	40.94	C	1.0005	1.0005	0	7.48E+07	1.22	1.10	97	8.65E+03	0.154
PCB-167 23'44'55'-HxCB	39.95		1.0006	1.0006	0	4.18E+07	1.21	1.16	48.5	8.65E+03	0.103
PCB-169 33'44'55'-HxCB	43.65		1.0004	1.0004	0	3.65E+07	1.23	1.12	48.5	8.65E+03	0.121
PCB-189 233'44'55'-HpCB	45.77		1.0004	1.0004	0	3.56E+07	1.07	1.07	52.2	4.58E+03	0.0689
PCB-209 DeCB	50.83		1.0004	1.0004	0	2.13E+07	1.17	1.11	48.1	1.35E+03	0.036
ES PCB-1	11.87		0.7245	0.7243	-0.1	1.22E+08	3.21	1.19	74.5 %	15%	140%
ES PCB-3	14.16		0.8640	0.8639	-0.1	1.17E+08	3.36	1.09	78.6 %	15%	140%
ES PCB-4	14.41		0.8795	0.8793	-0.2	6.58E+07	1.60	0.52	91.7 %	30%	140%
ES PCB-15	20.12		1.2271	1.2277	+0.7	1.36E+08	1.57	1.04	95.2 %	30%	140%
ES PCB-19	17.49		1.0673	1.0674	+0.1	6.30E+07	1.06	0.51	90.7 %	30%	140%
ES PCB-37	26.45		1.0787	1.0790	+0.5	1.09E+08	1.11	1.66	84.2 %	30%	140%
ES PCB-54	20.40		0.8328	0.8325	-0.4	6.13E+07	0.78	0.86	91.5 %	30%	140%
ES PCB-77	32.77		1.3364	1.3372	+1.6	1.01E+08	0.82	1.38	94.4 %	30%	140%
ES PCB-81	32.30		1.3170	1.3178	+1.6	9.87E+07	0.80	1.37	92.9 %	30%	140%
ES PCB-104	25.38		0.8325	0.8321	-0.6	5.94E+07	1.63	0.80	98.5 %	30%	140%
ES PCB-105	35.76		1.1720	1.1724	+0.9	8.41E+07	1.60	1.20	93.3 %	30%	140%
ES PCB-114	35.22		1.1543	1.1547	+0.8	8.33E+07	1.59	1.22	91.1 %	30%	140%
ES PCB-118	34.75		1.1391	1.1394	+0.6	8.28E+07	1.61	1.16	95.2 %	30%	140%
ES PCB-123	34.47		1.1299	1.1302	+0.6	8.24E+07	1.59	1.19	92.6 %	30%	140%
ES PCB-126	38.37		1.2575	1.2580	+1.2	7.30E+07	1.58	1.03	94.7 %	30%	140%
ES PCB-153	36.33		0.9716	0.9716	0	5.93E+07	1.30	1.11	92.7 %	30%	140%
ES PCB-155	30.33		0.8114	0.8111	-0.5	8.35E+07	1.31	1.59	92.6 %	30%	140%
ES PCB-156/157	40.92		1.0939	1.0941	+0.5	1.41E+08	1.27	1.60	77.5 %	30%	140%
ES PCB-167	39.93		1.0677	1.0678	+0.2	7.41E+07	1.28	1.67	78.3 %	30%	140%
ES PCB-169	43.63		1.1664	1.1667	+0.8	6.70E+07	1.25	1.56	75.8 %	30%	140%
ES PCB-170	43.14		0.9081	0.9080	-0.3	4.32E+07	1.07	0.95	90.1 %	30%	140%
ES PCB-180	42.08		0.8856	0.8855	-0.3	5.24E+07	1.05	1.14	90.7 %	30%	140%
ES PCB-188	35.21		0.7413	0.7410	-0.6	5.81E+07	1.07	0.94	109 %	30%	140%
ES PCB-189	45.75		0.9629	0.9629	0	6.35E+07	1.04	1.58	96.9 %	30%	140%
ES PCB-202	39.74		0.8366	0.8364	-0.5	5.56E+07	0.91	0.97	101 %	30%	140%
ES PCB-205	47.92		1.0084	1.0084	0	4.53E+07	0.90	1.24	88 %	30%	140%
ES PCB-206	49.38		1.0392	1.0392	0	3.14E+07	0.78	0.83	91.5 %	30%	140%
ES PCB-208	45.37		0.9549	0.9548	-0.3	4.97E+07	0.80	1.17	102 %	30%	140%
ES PCB-209	50.81		1.0694	1.0694	0	3.97E+07	1.19	1.11	86.4 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.89		0.9339	0.9338	-0.1	1.24E+08	1.09	1.11	103 %	40%	125%
SS PCB-111	32.79		1.0750	1.0752	+0.4	9.27E+07	1.59	1.03	109 %	40%	125%
SS PCB-178	37.77		1.0100	1.0100	0	3.92E+07	1.06	0.62	109 %	40%	125%
CS PCB-28	22.89		0.9339	0.9338	-0.1	1.24E+08	1.09	1.85	86.7 %	40%	125%
CS PCB-111	32.79		1.0750	1.0752	+0.4	9.27E+07	1.59	1.22	101 %	40%	125%
CS PCB-178	37.77		1.0100	1.0100	0	3.92E+07	1.06	0.58	119 %	40%	125%
JS PCB-9	16.39					1.37E+08	1.56				
JS PCB-52	24.51					7.77E+07	0.81				
JS PCB-101	30.50					7.50E+07	1.61				
JS PCB-138	37.40					5.67E+07	1.29				
JS PCB-194	47.52					4.14E+07	0.91				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	164	164	0.032		
						Di-CBs	573	573	0.0804		
						Tri-CBs	1,150	1,150	0.0745		
						Tetra-CBs	1,910	1,910	0.288		
						Penta-CBs	2,220	2,220	0.146		
						Hexa-CBs	2,080	2,080	0.0988		
						Hepta-CBs	1,220	1,220	0.104		
						Octa-CBs	590	590	0.0571		
						Nona-CBs	150	150	0.0985		
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	6.65E+07	3.26	0.95	57.3	5.30E+03	0.0288
PCB-2 3-MoCB	13.99		0.9880	0.9880	0	6.90E+07	3.24	1.20	49.2	5.30E+03	0.0297
PCB-3 4-MoCB	14.17		1.0010	1.0010	0	6.76E+07	3.27	1.01	57.1	5.30E+03	0.0352
PCB-4 22'-DiCB	14.43		1.0011	1.0011	0	3.81E+07	1.58	1.23	47	6.64E+03	0.0634
PCB-10 26'-DiCB	14.61		1.0135	1.0136	+0.1	6.18E+07	1.59	1.90	49.4	6.64E+03	0.0411
PCB-9 25'-DiCB	16.41		1.0010	1.0010	0	6.23E+07	1.64	1.01	45.3	1.36E+04	0.0982
PCB-7 24'-DiCB	16.57		1.0111	1.0112	+0.1	7.17E+07	1.64	1.14	46.3	1.36E+04	0.0872
PCB-6 23'-DiCB	16.80		1.0249	1.0249	0	6.73E+07	1.65	1.06	46.5	1.36E+04	0.0933
PCB-5 23'-DiCB	17.10		1.0433	1.0434	+0.1	6.80E+07	1.63	1.07	46.6	1.36E+04	0.0925
PCB-8 24'-DiCB	17.22		1.0506	1.0507	+0.1	6.93E+07	1.64	1.10	46.3	1.36E+04	0.0903
PCB-14 35'-DiCB	18.78		0.9334	0.9332	-0.2	8.23E+07	1.64	1.27	47.5	1.36E+04	0.0779
PCB-11 33'-DiCB	19.56		0.9721	0.9720	-0.1	7.24E+07	1.64	1.10	48.4	1.36E+04	0.0902
PCB-13/12 34'/34'-DiCB	19.85	C	0.9866	0.9866	0	1.43E+08	1.63	1.10	95.9	1.36E+04	0.0905
PCB-15 44'-DiCB	20.14		1.0008	1.0008	0	7.46E+07	1.62	1.02	53.8	1.36E+04	0.0973
PCB-19 22'6-TrCB	17.51		1.0010	1.0010	0	3.44E+07	1.05	1.15	47.5	4.50E+03	0.0566
PCB-30/18 246/22'5-TrCB	19.27	C	1.1014	1.1016	+0.2	9.66E+07	1.05	1.54	99.8	4.50E+03	0.0423
PCB-17 22'4-TrCB	19.67		1.1243	1.1245	+0.2	4.19E+07	1.04	1.32	50.3	4.50E+03	0.049
PCB-27 23'6-TrCB	19.86		1.1353	1.1356	+0.4	5.73E+07	1.04	1.80	50.5	4.50E+03	0.036
PCB-24 236-TrCB	20.00		1.1430	1.1434	+0.5	5.67E+07	1.04	1.71	52.7	4.50E+03	0.038
PCB-16 22'3-TrCB	20.10		1.1484	1.1489	+0.6	2.95E+07	1.05	1.01	46.3	4.50E+03	0.0641
PCB-32 24'6-TrCB	20.57		1.1758	1.1762	+0.5	6.10E+07	1.04	1.90	50.9	4.50E+03	0.0341

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-34 23'5'-TrCB	21.72		0.8218	0.8215	-0.4	6.22E+07	1.00	1.28	44.9	1.04E+04	0.0781
PCB-23 235-TrCB	21.88		0.8275	0.8272	-0.4	6.21E+07	1.01	1.28	44.7	1.04E+04	0.078
PCB-26/29 23'5'/245-TrCB	22.16	C	0.8383	0.8379	-0.5	1.27E+08	1.00	1.29	90.7	1.04E+04	0.0773
PCB-25 23'4'-TrCB	22.36		0.8456	0.8454	-0.3	6.54E+07	1.00	1.28	46.9	1.04E+04	0.0776
PCB-31 24'5'-TrCB	22.64		0.8562	0.8559	-0.4	6.68E+07	1.00	1.34	45.7	1.04E+04	0.0741
PCB-28/20 244' /233'-TrCB	22.92	C	0.8670	0.8667	-0.4	1.26E+08	1.00	1.25	92.4	1.04E+04	0.0795
PCB-21/33 234/23'4'-TrCB	23.10	C	0.8738	0.8735	-0.4	1.30E+08	1.00	1.29	93.1	1.04E+04	0.0774
PCB-22 234'-TrCB	23.48		0.8880	0.8878	-0.3	6.15E+07	1.01	1.20	47	1.04E+04	0.0829
PCB-36 33'5'-TrCB	24.86		0.9401	0.9400	-0.1	6.91E+07	1.01	1.32	48.2	1.04E+04	0.0755
PCB-39 34'5'-TrCB	25.18		0.9522	0.9521	-0.2	7.08E+07	1.00	1.36	48	1.04E+04	0.0734
PCB-38 345-TrCB	25.71		0.9723	0.9723	0	6.47E+07	1.02	1.21	49	1.04E+04	0.082
PCB-35 33'4'-TrCB	26.10		0.9871	0.9871	0	6.27E+07	1.01	1.16	49.9	1.04E+04	0.0862
PCB-37 344'-TrCB	26.47		1.0007	1.0008	+0.2	6.53E+07	1.01	1.08	55.7	1.04E+04	0.0924
PCB-54 22'66'-TeCB	20.42		1.0010	1.0010	0	3.97E+07	0.81	1.35	47.9	2.17E+03	0.0257
PCB-50/53 22'46'/22'56'-TeCB	22.41	C	0.9145	0.9143	-0.3	7.60E+07	0.79	0.92	83.3	3.03E+03	0.0364
PCB-45 22'36'-TeCB	22.99		0.9383	0.9382	-0.1	3.22E+07	0.77	0.80	40.8	3.03E+03	0.042
PCB-51 22'46'-TeCB	23.07		0.9413	0.9412	-0.1	3.99E+07	0.79	0.93	43.7	3.03E+03	0.0364
PCB-46 22'36'-TeCB	23.28		0.9499	0.9498	-0.1	3.10E+07	0.79	0.73	42.9	3.03E+03	0.0459
PCB-52 22'55'-TeCB	24.53		1.0009	1.0010	+0.1	3.92E+07	0.78	0.89	44.5	3.03E+03	0.0376
PCB-73 23'5'6'-TeCB	24.66		1.0062	1.0063	+0.1	5.26E+07	0.78	1.18	45.2	3.03E+03	0.0285
PCB-43 22'35'-TeCB	24.76		1.0101	1.0102	+0.1	3.16E+07	0.79	0.77	41.5	3.03E+03	0.0436
PCB-69/49 23'46'/22'45'-TeCB	24.95	C	1.0181	1.0181	0	9.49E+07	0.79	1.10	87.6	3.03E+03	0.0306
PCB-48 22'45'-TeCB	25.23		1.0295	1.0296	+0.2	3.94E+07	0.79	0.91	44.1	3.03E+03	0.0371
PCB-44/47/65 ...-TeCB	25.45	C	1.0384	1.0384	0	1.25E+08	0.79	0.96	131	3.03E+03	0.0349
PCB-59/62/75 ...-TeCB	25.73	C	1.0496	1.0497	+0.2	1.62E+08	0.79	1.25	132	3.03E+03	0.027
PCB-42 22'34'-TeCB	25.89		1.0563	1.0564	+0.2	3.71E+07	0.80	0.83	45.2	3.03E+03	0.0405
PCB-41 22'34'-TeCB	26.22		1.0698	1.0700	+0.3	3.11E+07	0.78	0.73	43.1	3.03E+03	0.0461
PCB-71/40 23'4'6'/22'33'-TeCB	26.32	C	1.0737	1.0739	+0.3	8.41E+07	0.80	0.93	91.7	3.03E+03	0.0362
PCB-64 234'6'-TeCB	26.52		1.0819	1.0821	+0.3	5.83E+07	0.78	1.32	44.8	3.03E+03	0.0255
PCB-72 23'55'-TeCB	27.24		0.8436	0.8433	-0.5	5.72E+07	0.79	1.29	44.9	7.12E+04	0.613
PCB-68 23'45'-TeCB	27.49		0.8515	0.8513	-0.3	6.05E+07	0.79	1.37	44.9	7.12E+04	0.578
PCB-57 233'5'-TeCB	27.87		0.8630	0.8628	-0.3	5.55E+07	0.79	1.23	45.7	7.12E+04	0.642
PCB-58 233'5'-TeCB	28.07		0.8693	0.8690	-0.5	5.79E+07	0.79	1.26	46.6	7.12E+04	0.627
PCB-67 23'45'-TeCB	28.23		0.8741	0.8739	-0.3	5.90E+07	0.79	1.31	45.7	7.12E+04	0.605
PCB-63 234'5'-TeCB	28.45		0.8811	0.8809	-0.3	6.30E+07	0.79	1.36	46.9	7.12E+04	0.581
PCB-61/70/74/76 ...-TeCB	28.74	C	0.8902	0.8899	-0.5	2.29E+08	0.79	1.24	186	7.12E+04	0.635
PCB-66 23'44'-TeCB	29.02		0.8989	0.8986	-0.5	5.65E+07	0.78	1.17	49.1	7.12E+04	0.678
PCB-55 233'4'-TeCB	29.17		0.9034	0.9032	-0.4	5.43E+07	0.80	1.17	46.9	7.12E+04	0.673
PCB-56 233'4'-TeCB	29.61		0.9169	0.9167	-0.4	5.44E+07	0.78	1.16	47.4	7.12E+04	0.68
PCB-60 2344'-TeCB	29.80		0.9229	0.9227	-0.4	5.44E+07	0.79	1.18	46.9	7.12E+04	0.672
PCB-80 33'55'-TeCB	30.12		0.9329	0.9327	-0.4	6.56E+07	0.79	1.37	48.6	7.12E+04	0.578
PCB-79 33'45'-TeCB	31.45		0.9737	0.9737	0	6.51E+07	0.78	1.38	47.8	7.12E+04	0.573
PCB-78 33'45'-TeCB	31.94		0.9889	0.9889	0	5.35E+07	0.78	1.11	48.8	7.12E+04	0.712
PCB-104 22'466'-PeCB	25.40		1.0009	1.0009	0	4.09E+07	0.64	1.43	48	1.72E+03	0.022
PCB-96 22'366'-PeCB	25.72		1.0134	1.0134	0	3.59E+07	0.64	1.20	50.5	1.72E+03	0.0263
PCB-103 22'45'6'-PeCB	27.41		0.8989	0.8987	-0.3	3.62E+07	0.62	0.95	46.4	1.83E+04	0.238
PCB-94 22'356'-PeCB	27.60		0.9051	0.9049	-0.3	3.13E+07	0.62	0.79	47.8	1.83E+04	0.283
PCB-95 22'35'6'-PeCB	27.98		0.9176	0.9175	-0.2	3.42E+07	0.62	0.86	48	1.83E+04	0.261

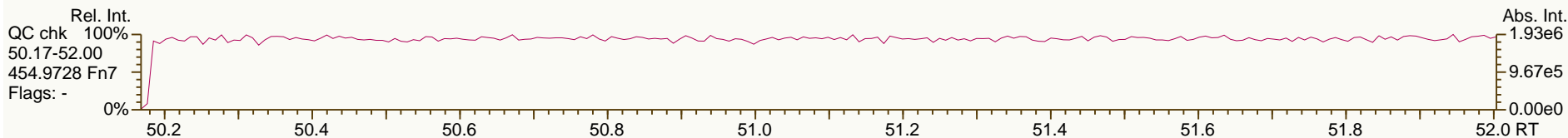
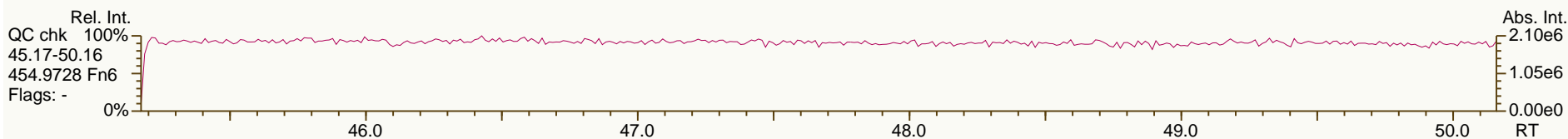
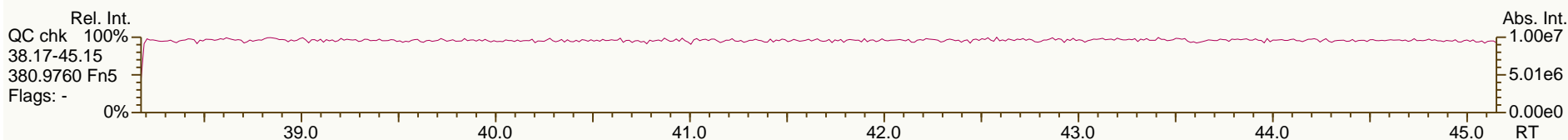
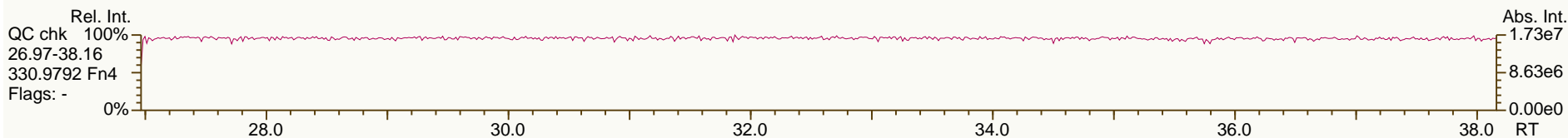
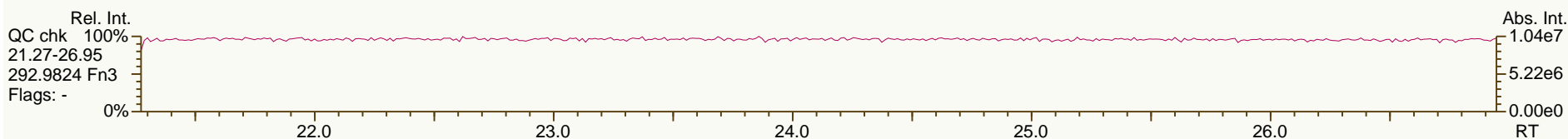
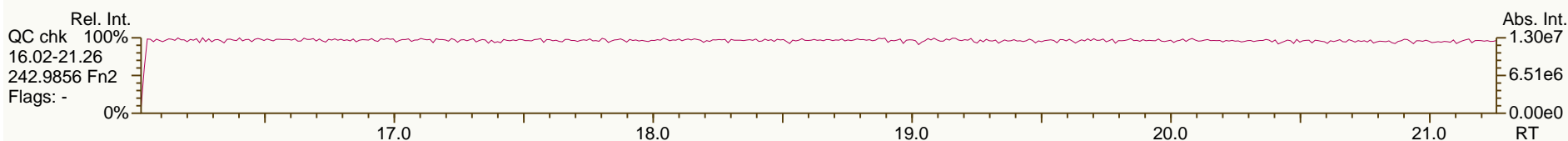
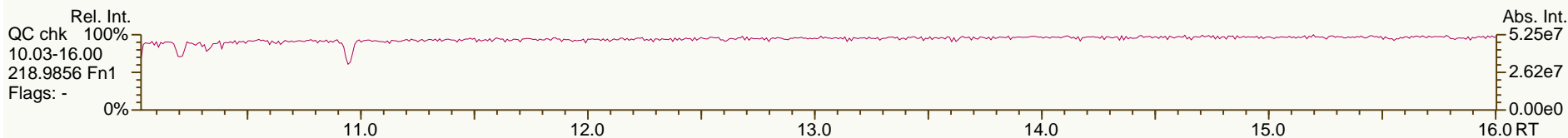
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-100/93 22'44'6"/22'356"-PeCB	28.19	C	0.9246	0.9244	-0.3	6.78E+07	0.62	0.88	94	1.83E+04	0.257
PCB-102 22'456"-PeCB	28.31		0.9282	0.9282	0	4.04E+07	0.62	1.04	47.1	1.83E+04	0.216
PCB-98 22'34'6"-PeCB	28.38		0.9305	0.9305	0	2.73E+07	0.62	0.73	45.6	1.83E+04	0.31
PCB-88 22'346"-PeCB	28.68		0.9403	0.9403	0	3.23E+07	0.61	0.79	49.5	1.83E+04	0.284
PCB-91 22'34'6"-PeCB	28.74		0.9424	0.9424	0	3.46E+07	0.63	0.91	45.9	1.83E+04	0.246
PCB-84 22'33'6"-PeCB	28.93		0.9487	0.9486	-0.2	2.86E+07	0.62	0.72	47.9	1.83E+04	0.312
PCB-89 22'346"-PeCB	29.35		0.9624	0.9624	0	3.09E+07	0.62	0.76	49	1.83E+04	0.295
PCB-121 23'45'6"-PeCB	29.69		0.9736	0.9736	0	4.85E+07	0.62	1.22	48.3	1.83E+04	0.185
PCB-92 22'355"-PeCB	30.01		0.9841	0.9840	-0.2	3.29E+07	0.62	0.83	48.4	1.83E+04	0.273
PCB-113/90/101 ...-PeCB	30.50	C	0.9999	0.9999	0	1.17E+08	0.62	0.98	144	1.83E+04	0.229
PCB-83 22'33'5"-PeCB	30.93		1.0142	1.0143	+0.2	2.93E+07	0.61	0.71	49.8	1.83E+04	0.315
PCB-99 22'44'5"-PeCB	31.03		1.0173	1.0174	+0.2	3.57E+07	0.61	0.91	47.7	1.83E+04	0.248
PCB-112 233'56"-PeCB	31.13		1.0206	1.0207	+0.2	4.62E+07	0.62	1.17	47.9	1.83E+04	0.193
PCB-108/119/86/97/125...-PeCB	31.48	C	1.0320	1.0321	+0.2	2.35E+08	0.62	1.00	286	1.83E+04	0.226
PCB-117 234'56"-PeCB	32.01		1.0495	1.0497	+0.4	4.93E+07	0.61	1.05	57	1.83E+04	0.214
PCB-116/85 23456/22'344"-PeCB	32.11	C	1.0525	1.0527	+0.4	7.03E+07	0.62	0.98	86.7	1.83E+04	0.229
PCB-110 233'4'6"-PeCB	32.22		1.0561	1.0563	+0.4	4.44E+07	0.61	1.12	48.4	1.83E+04	0.202
PCB-115 2344'6"-PeCB	32.30		1.0590	1.0592	+0.4	4.63E+07	0.62	1.15	49	1.83E+04	0.197
PCB-82 22'33'4"-PeCB	32.50		1.0655	1.0656	+0.2	2.84E+07	0.63	0.69	49.7	1.83E+04	0.325
PCB-111 233'55"-PeCB	32.81		1.0757	1.0759	+0.4	4.89E+07	0.62	1.20	49.2	1.83E+04	0.187
PCB-120 23'455"-PeCB	33.21		1.0887	1.0889	+0.4	4.96E+07	0.62	1.22	49.2	1.83E+04	0.184
PCB-107/124 ...-PeCB	34.18	C	0.9916	0.9915	-0.2	9.00E+07	0.62	1.10	99.6	1.83E+04	0.206
PCB-109 233'46"-PeCB	34.38		0.9976	0.9975	-0.2	5.02E+07	0.61	1.24	49.1	1.83E+04	0.182
PCB-106 233'45"-PeCB	34.60		1.0038	1.0039	+0.2	4.38E+07	0.62	1.08	49.3	1.83E+04	0.209
PCB-122 233'4'5"-PeCB	35.07		1.0091	1.0091	0	4.19E+07	0.63	1.00	50.1	1.83E+04	0.233
PCB-127 33'455"-PeCB	37.01		1.0350	1.0351	+0.2	4.42E+07	0.62	1.09	48.4	1.83E+04	0.21
PCB-155 22'44'66"-HxCB	30.35		1.0007	1.0007	0	4.85E+07	1.28	1.26	46.1	1.71E+03	0.0176
PCB-152 22'3566"-HxCB	30.52		1.0060	1.0061	+0.2	4.56E+07	1.27	1.11	49.4	1.71E+03	0.02
PCB-150 22'34'66"-HxCB	30.66		1.0107	1.0108	+0.2	4.53E+07	1.27	1.12	48.4	1.71E+03	0.0198
PCB-136 22'33'66"-HxCB	30.96		1.0207	1.0208	+0.2	4.24E+07	1.28	1.03	49.5	1.71E+03	0.0216
PCB-145 22'3466"-HxCB	31.23		1.0296	1.0297	+0.2	4.31E+07	1.27	1.05	49.2	1.71E+03	0.0211
PCB-148 22'34'56"-HxCB	32.50		1.0714	1.0716	+0.4	3.27E+07	1.26	1.12	49.1	1.71E+03	0.026
PCB-151/135 ...-HxCB	33.02	C	1.0886	1.0888	+0.4	6.32E+07	1.27	1.06	100	1.71E+03	0.0275
PCB-154 22'44'56"-HxCB	33.23		1.0954	1.0957	+0.6	3.69E+07	1.28	1.25	50	1.71E+03	0.0235
PCB-144 22'345'6"-HxCB	33.50		1.1041	1.1044	+0.6	3.28E+07	1.25	1.10	50.1	1.71E+03	0.0265
PCB-147/149 ...-HxCB	33.80	C	1.1141	1.1143	+0.4	6.54E+07	1.27	1.11	99.8	1.71E+03	0.0265
PCB-134 22'33'56"-HxCB	33.98		1.1199	1.1202	+0.6	2.70E+07	1.26	0.79	57.8	1.71E+03	0.0372
PCB-143 22'3456"-HxCB	34.06		1.1225	1.1229	+0.8	2.94E+07	1.29	1.10	45	1.71E+03	0.0265
PCB-139/140 ...-HxCB	34.32	C	1.1312	1.1315	+0.6	6.60E+07	1.26	1.11	100	1.71E+03	0.0263
PCB-131 22'33'46"-HxCB	34.49		1.1369	1.1372	+0.6	2.79E+07	1.27	0.94	50	1.71E+03	0.0311
PCB-142 22'3456"-HxCB	34.64		1.1416	1.1420	+0.8	2.73E+07	1.26	0.93	49.8	1.71E+03	0.0316
PCB-132 22'33'46"-HxCB	34.87		1.1494	1.1497	+0.6	2.88E+07	1.28	0.97	50.1	1.71E+03	0.0302
PCB-133 22'33'55"-HxCB	35.28		1.1626	1.1630	+0.8	3.06E+07	1.25	1.04	49.4	1.71E+03	0.028
PCB-165 233'55'6"-HxCB	35.62		0.9525	0.9524	-0.2	3.87E+07	1.27	1.31	49.9	1.71E+03	0.0224
PCB-146 22'34'55"-HxCB	35.83		0.9582	0.9581	-0.2	3.33E+07	1.27	1.14	49.3	1.71E+03	0.0257
PCB-161 233'45'6"-HxCB	35.95		0.9613	0.9613	0	4.26E+07	1.28	1.42	50.7	1.71E+03	0.0206
PCB-153/168 ...-HxCB	36.38	C	0.9728	0.9728	0	8.08E+07	1.27	1.39	98.2	1.71E+03	0.0211
PCB-141 22'3455"-HxCB	36.52		0.9766	0.9766	0	3.02E+07	1.27	1.03	49.2	1.71E+03	0.0283

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-130 22'33'45'-HxCB	36.87		0.9859	0.9859	0	2.70E+07	1.27	0.92	49.6	1.71E+03	0.0318
PCB-137 22'344'5-HxCB	37.06		0.9911	0.9911	0	3.13E+07	1.26	1.14	46.5	1.71E+03	0.0258
PCB-164 233'4'5'6-HxCB	37.15		0.9933	0.9933	0	4.27E+07	1.27	1.38	52.1	1.71E+03	0.0212
PCB-163/138/129 ...-HxCB	37.44	C	1.0011	1.0011	0	9.82E+07	1.27	1.11	149	1.71E+03	0.0263
PCB-160 233'456-HxCB	37.58		1.0048	1.0048	0	3.89E+07	1.28	1.30	50.4	1.71E+03	0.0225
PCB-158 233'44'6-HxCB	37.76		1.0096	1.0096	0	4.41E+07	1.28	1.50	49.7	1.71E+03	0.0196
PCB-128/166 ...-HxCB	38.49	C	0.9641	0.9640	-0.2	6.48E+07	1.20	0.89	97.9	8.65E+03	0.134
PCB-159 233'455'-HxCB	39.31		0.9844	0.9843	-0.2	3.95E+07	1.22	1.07	49.8	8.65E+03	0.112
PCB-162 233'4'55'-HxCB	39.54		0.9903	0.9903	0	3.93E+07	1.22	1.06	49.8	8.65E+03	0.113
PCB-188 22'34'566'-HpCB	35.23		1.0006	1.0006	0	3.40E+07	1.07	1.27	46.1	1.25E+03	0.018
PCB-179 22'33'566'-HpCB	35.51		1.0086	1.0086	0	3.29E+07	1.07	1.08	52.4	1.25E+03	0.0211
PCB-184 22'344'66'-HpCB	35.97		1.0216	1.0217	+0.2	3.05E+07	1.06	1.03	51.1	1.25E+03	0.0223
PCB-176 22'33'466'-HpCB	36.27		1.0300	1.0300	0	3.38E+07	1.07	1.14	51.1	1.25E+03	0.02
PCB-186 22'34566'-HpCB	36.67		1.0413	1.0414	+0.2	3.14E+07	1.06	1.07	50.6	1.25E+03	0.0214
PCB-178 22'33'55'6-HpCB	37.79		1.0733	1.0734	+0.2	2.25E+07	1.05	0.76	51.2	1.25E+03	0.0301
PCB-175 22'33'45'6-HpCB	38.34		1.0887	1.0889	+0.5	2.99E+07	1.06	1.08	52.8	8.61E+03	0.156
PCB-187 22'34'55'6-HpCB	38.57		1.0952	1.0954	+0.5	3.09E+07	1.05	1.15	51.3	8.61E+03	0.147
PCB-182 22'344'56'-HpCB	38.74		1.1002	1.1004	+0.5	3.15E+07	1.05	1.19	50.4	8.61E+03	0.142
PCB-183 22'344'5'6-HpCB	39.09		1.1101	1.1102	+0.2	3.09E+07	1.03	1.22	48.2	8.61E+03	0.138
PCB-185 22'3455'6-HpCB	39.17		1.1125	1.1126	+0.2	2.99E+07	1.05	1.03	55.2	8.61E+03	0.164
PCB-174 22'33'456'-HpCB	39.29		1.1156	1.1158	+0.5	2.57E+07	1.05	0.98	49.8	8.61E+03	0.172
PCB-177 22'33'45'6'-HpCB	39.66		1.1262	1.1264	+0.5	2.53E+07	1.06	0.95	50.9	8.61E+03	0.179
PCB-181 22'344'56-HpCB	40.01		1.1361	1.1363	+0.5	2.87E+07	1.04	1.07	51.1	8.61E+03	0.158
PCB-171/173 ...-HpCB	40.19	C	1.1413	1.1415	+0.5	5.06E+07	1.05	0.95	102	8.61E+03	0.179
PCB-172 22'33'455'-HpCB	41.54		0.9080	0.9079	-0.2	2.59E+07	1.06	0.97	50.8	8.61E+03	0.174
PCB-192 233'455'6-HpCB	41.79		0.9134	0.9133	-0.3	3.34E+07	1.04	1.26	50.5	8.61E+03	0.134
PCB-180/193 ...-HpCB	42.06	C	0.9194	0.9193	-0.3	6.60E+07	1.05	1.24	101	8.61E+03	0.136
PCB-191 233'44'5'6-HpCB	42.39		0.9266	0.9265	-0.3	3.62E+07	1.06	1.35	51	8.61E+03	0.125
PCB-170 22'33'44'5-HpCB	43.16		0.9434	0.9434	0	2.47E+07	1.06	1.14	50.3	8.61E+03	0.188
PCB-190 233'44'56-HpCB	43.62		0.9533	0.9533	0	3.53E+07	1.04	1.56	52.5	8.61E+03	0.137
PCB-202 22'33'55'66'-OcCB	39.77		1.0005	1.0005	0	2.78E+07	0.92	1.05	47.4	1.56E+03	0.0281
PCB-201 22'33'45'66'-OcCB	40.55		1.0203	1.0203	0	3.12E+07	0.90	1.13	49.5	1.56E+03	0.0261
PCB-204 22'344'566'-OcCB	41.13		1.0348	1.0348	0	2.93E+07	0.91	1.06	50	1.56E+03	0.028
PCB-197 22'33'44'66'-OcCB	41.32		1.0396	1.0396	0	3.26E+07	0.90	1.13	51.9	1.56E+03	0.0261
PCB-200 22'33'4566'-OcCB	41.41		1.0418	1.0419	+0.2	2.77E+07	0.91	1.07	46.4	1.56E+03	0.0275
PCB-198/199 ...-OcCB	43.73	C	1.1001	1.1003	+0.5	3.97E+07	0.91	0.72	99.1	1.56E+03	0.041
PCB-196 22'33'44'56'-OcCB	44.30		1.1146	1.1147	+0.3	2.04E+07	0.90	0.76	48	1.56E+03	0.0387
PCB-203 22'344'55'6-OcCB	44.47		1.1188	1.1190	+0.5	2.11E+07	0.92	0.77	49.1	1.56E+03	0.0383
PCB-195 22'33'44'56-OcCB	45.59		0.9516	0.9516	0	1.79E+07	0.91	0.80	49.6	3.96E+03	0.115
PCB-194 22'33'44'55'-OcCB	47.54		0.9921	0.9921	0	1.94E+07	0.91	0.85	50.2	3.96E+03	0.107
PCB-205 233'44'55'6-OcCB	47.94		1.0004	1.0004	0	2.35E+07	0.92	1.06	49	3.96E+03	0.0861
PCB-208 22'33'455'66'-NoCB	45.39		1.0005	1.0005	0	2.76E+07	0.78	1.12	49.4	4.04E+03	0.0748
PCB-207 22'33'44'566'-NoCB	46.18		1.0178	1.0178	0	2.89E+07	0.78	1.13	51.4	4.04E+03	0.0741
PCB-206 22'33'44'55'6-NoCB	49.40		1.0004	1.0004	0	1.71E+07	0.78	1.11	48.9	4.04E+03	0.122

SGS-AP ID: OPR1\_11899\_PCB  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11899\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 47

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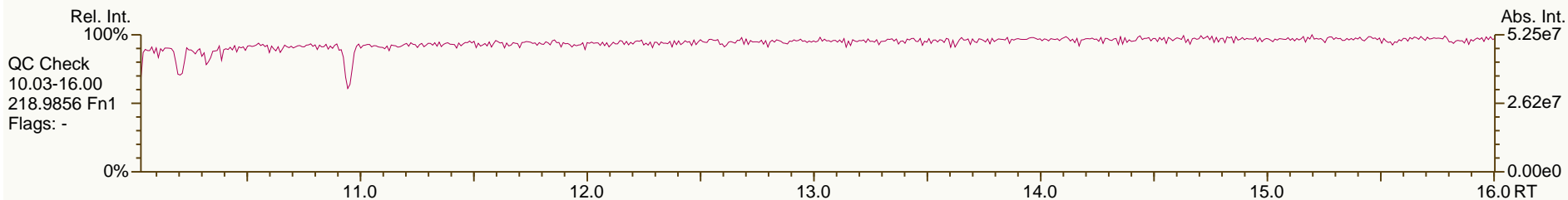
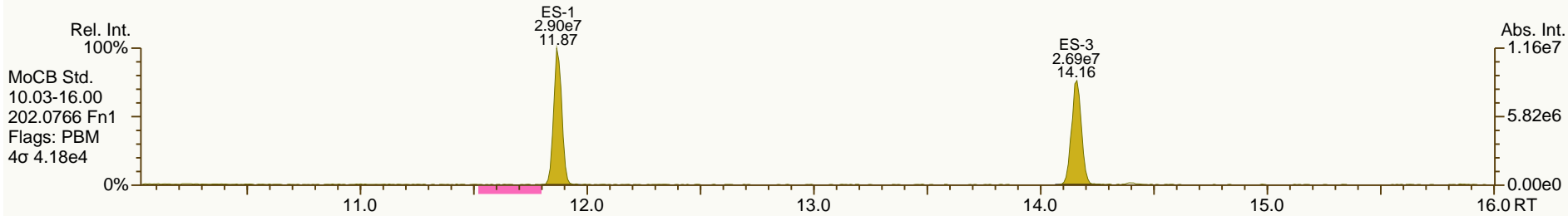
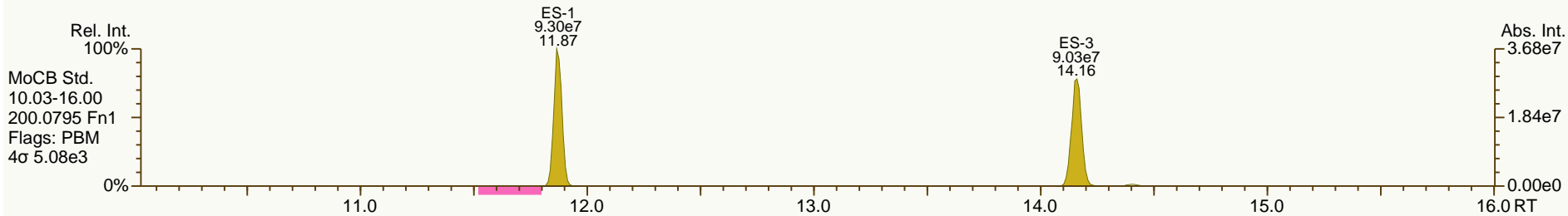
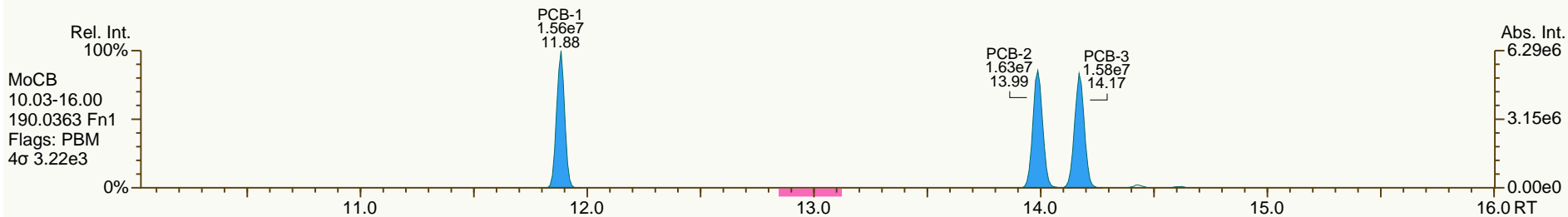
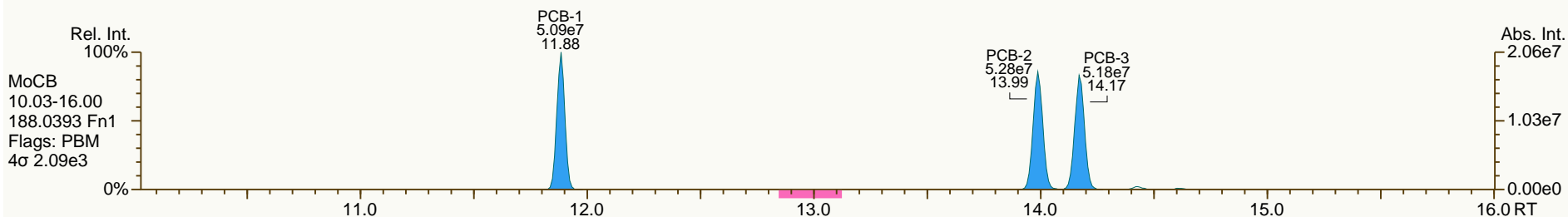




SGS-AP ID: OPR1\_11899\_PCB  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11899\_OPR001  
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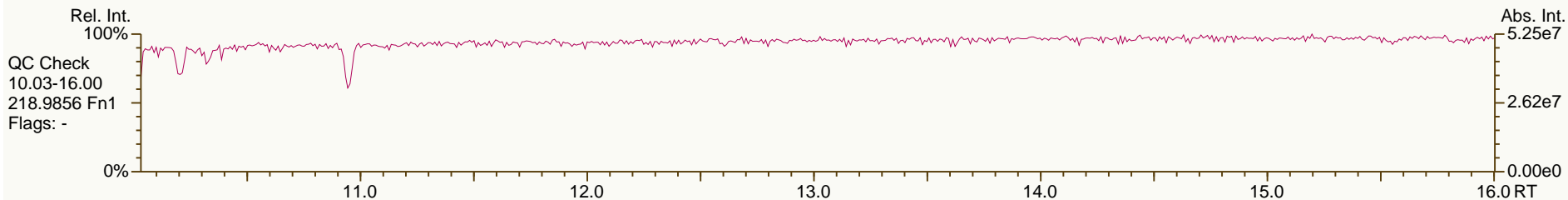
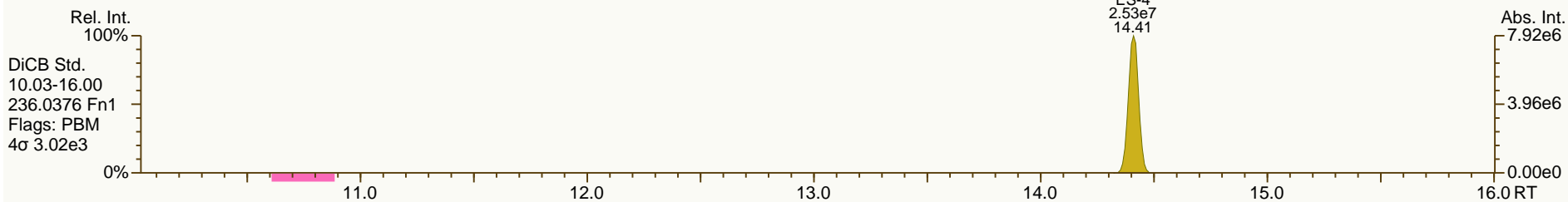
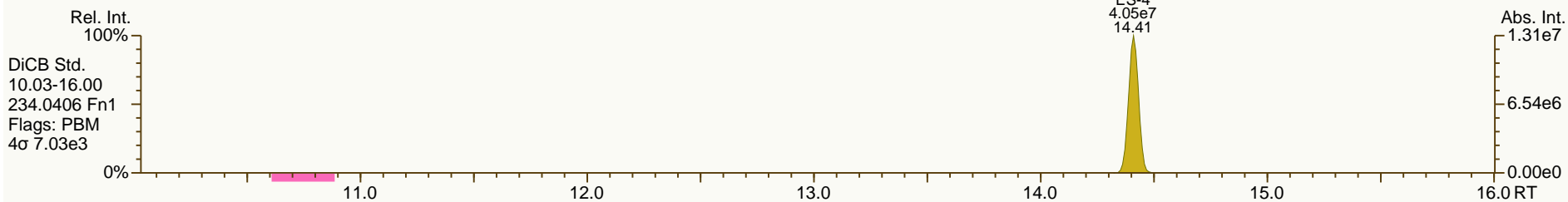
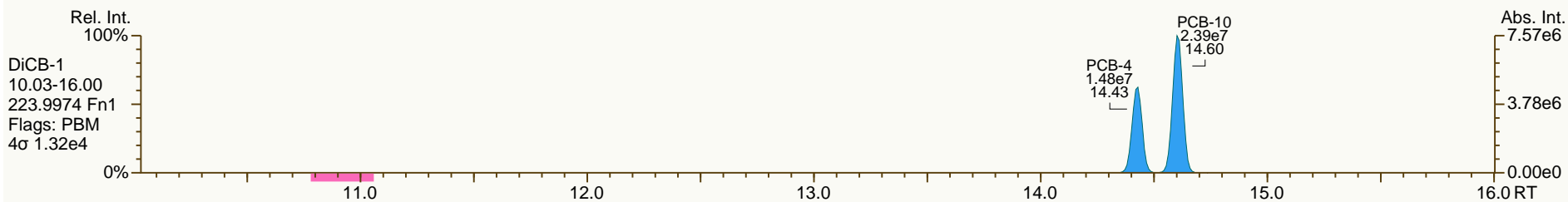
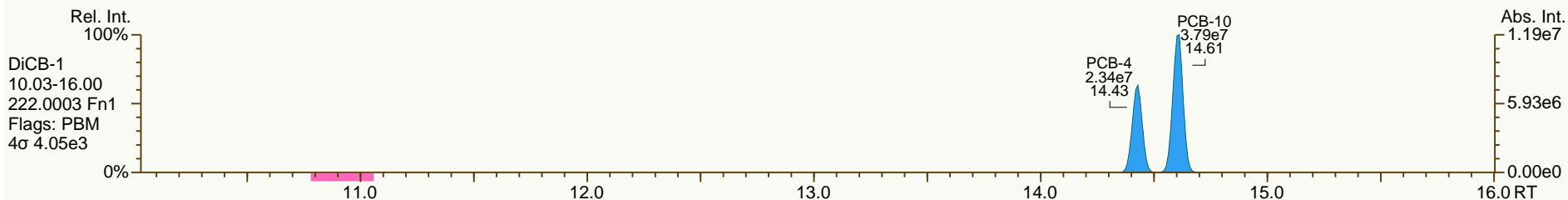
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Instr: AutoSpec-Premier MM7

Sample ID: 0\_11899\_OPR001  
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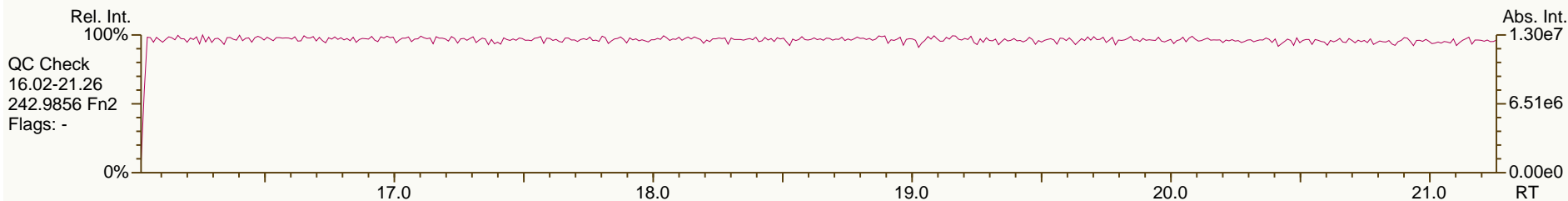
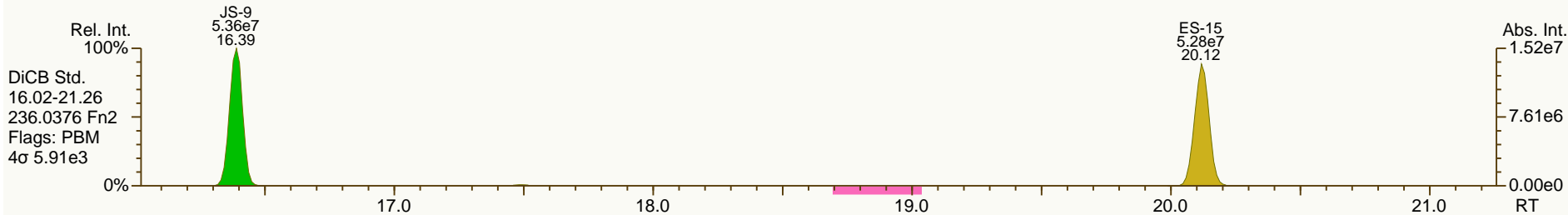
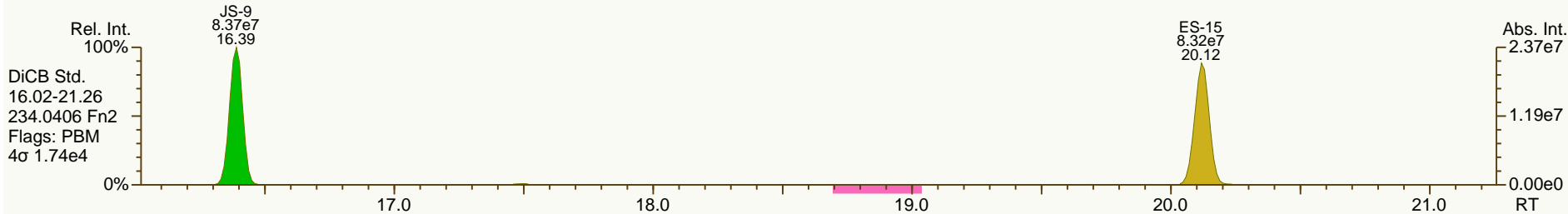
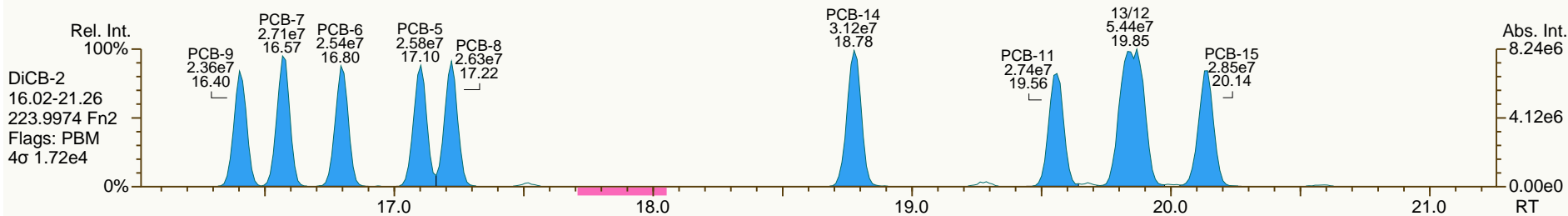
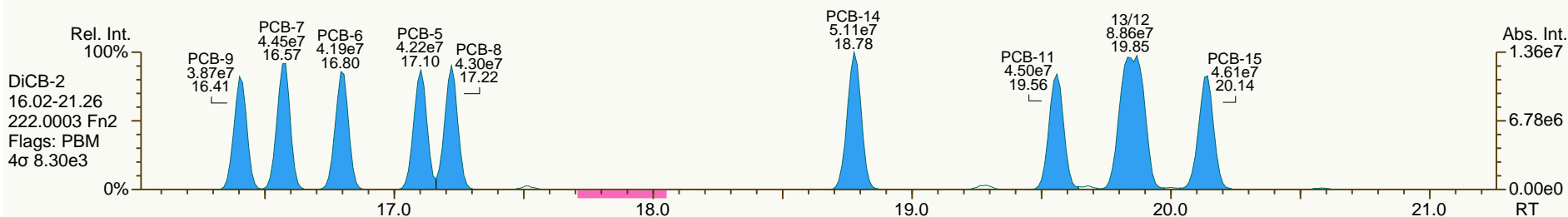
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SGS-AP ID: OPR1\_11899\_PCB  
Instr: AutoSpec-Premier MM7

Sample ID: 0\_11899\_OPR001  
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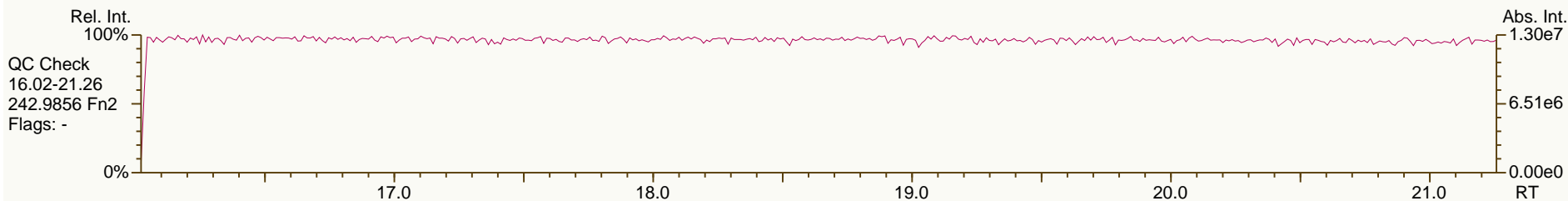
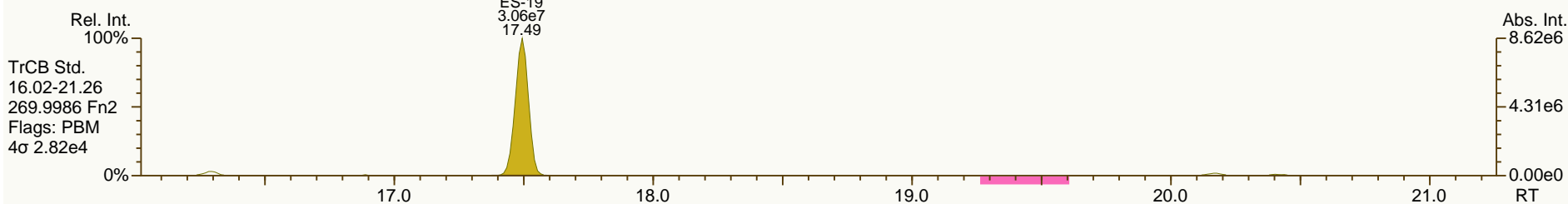
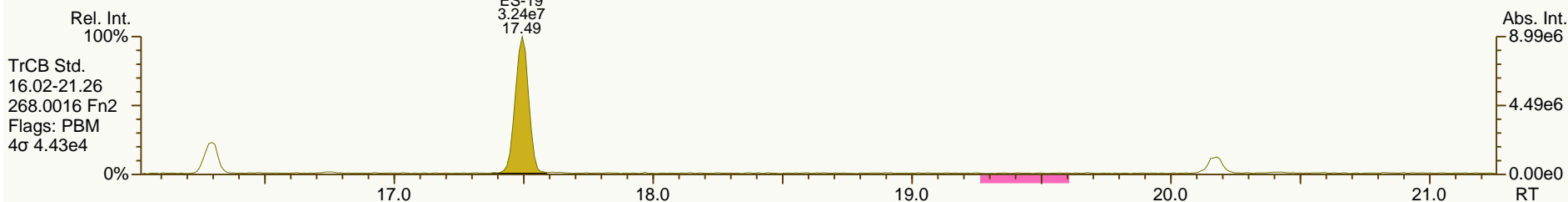
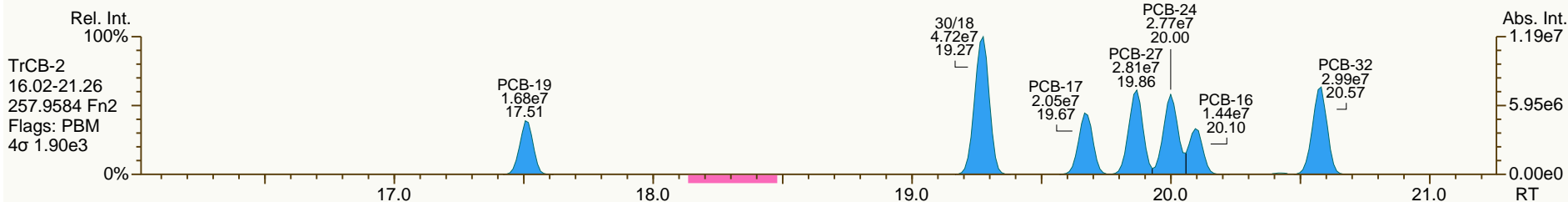
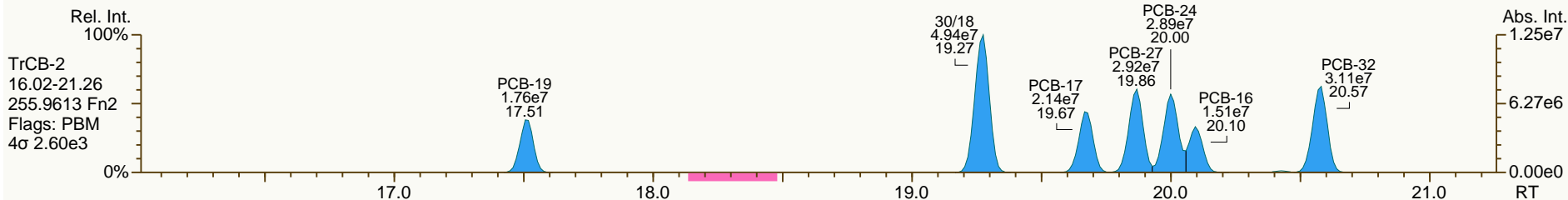
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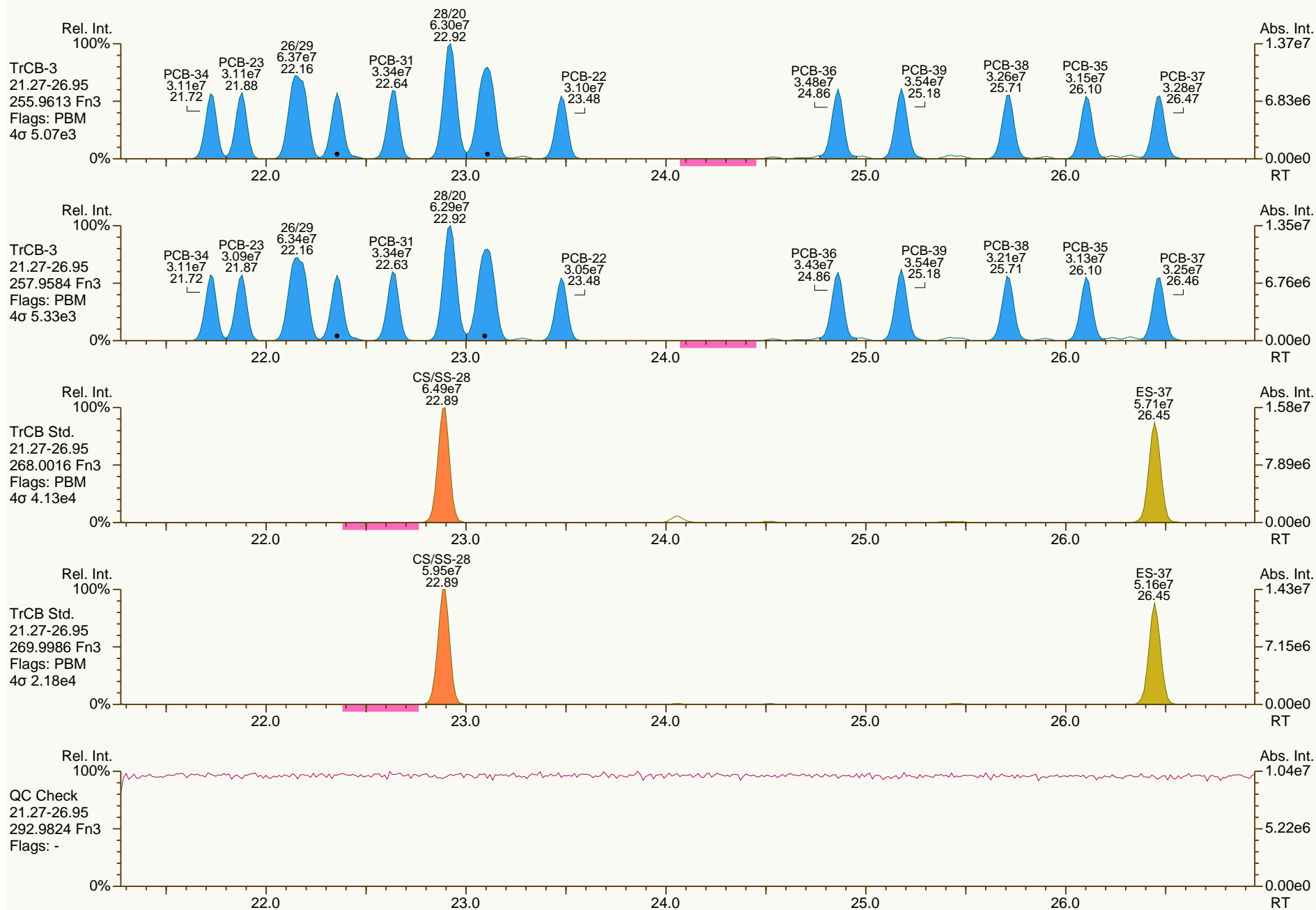
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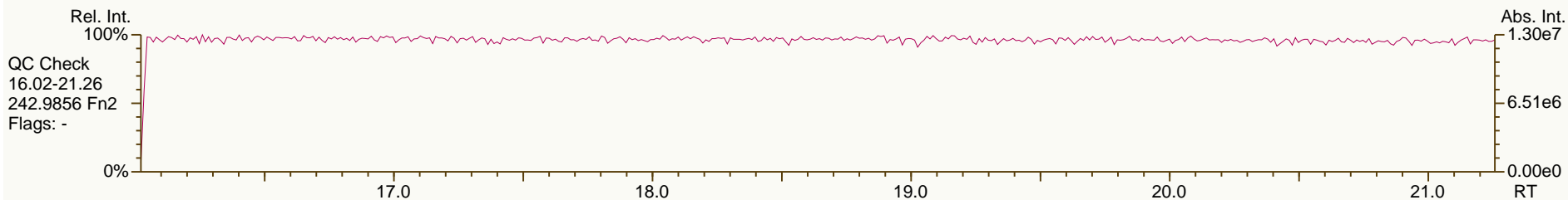
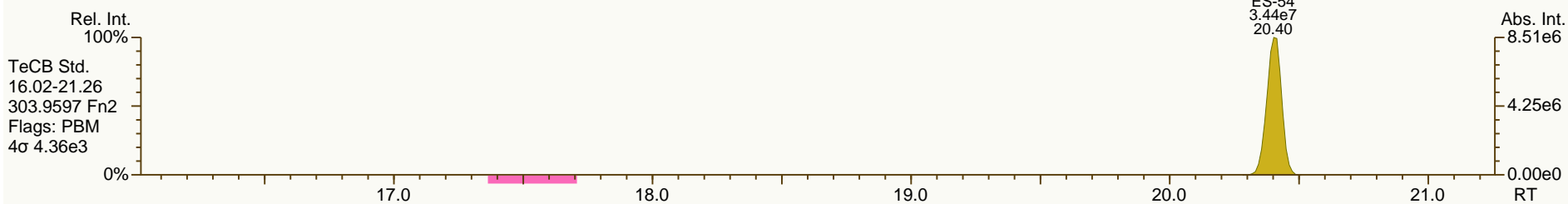
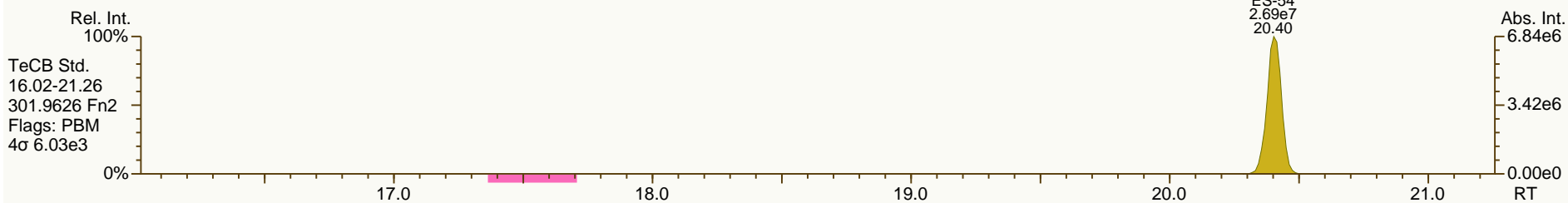
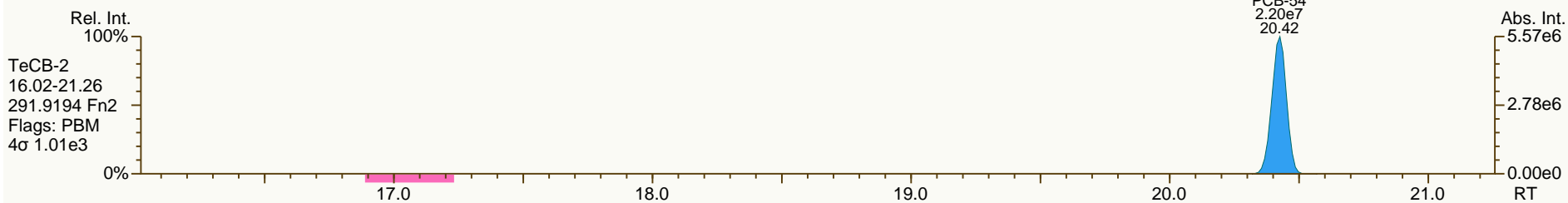
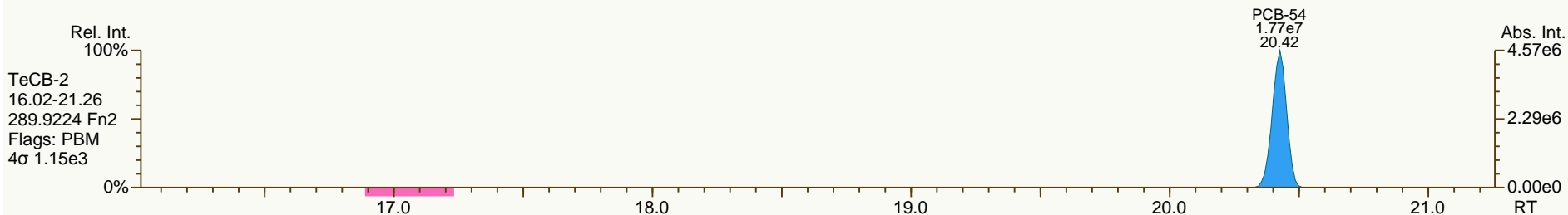
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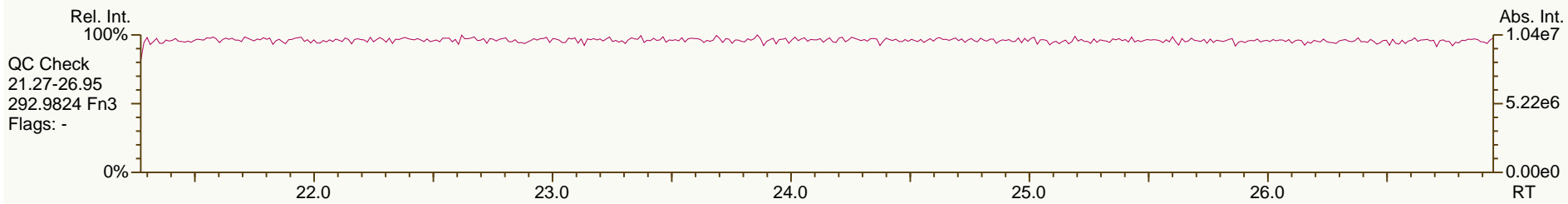
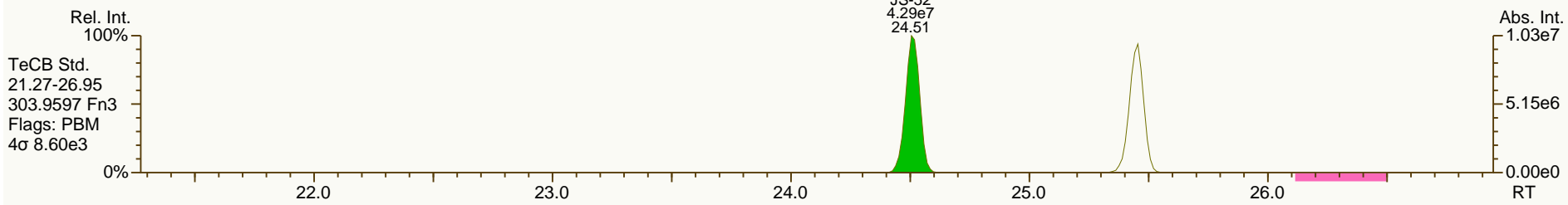
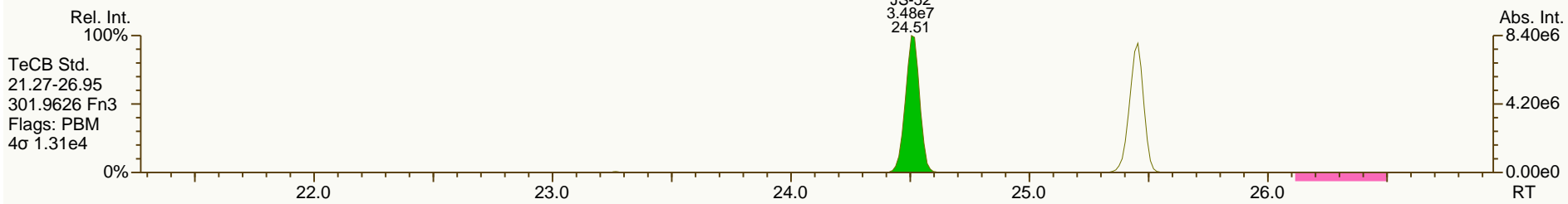
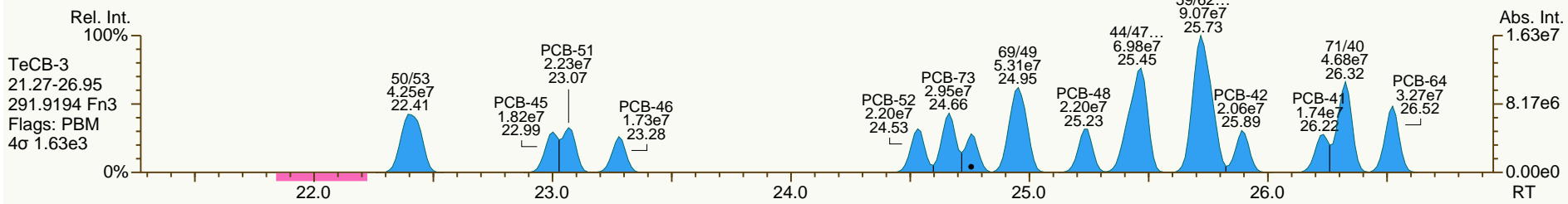
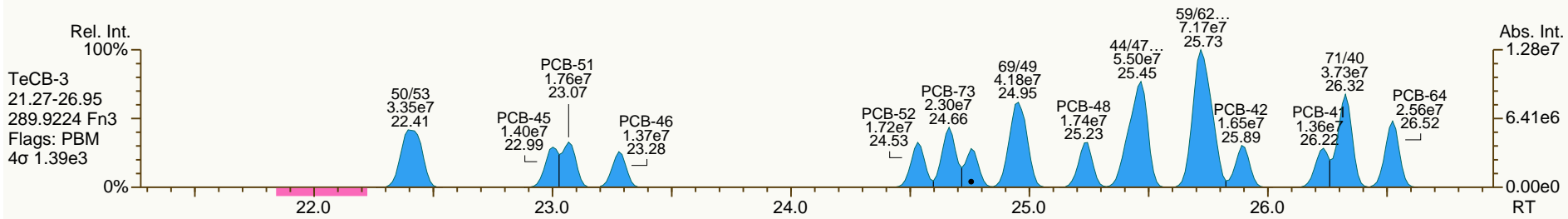
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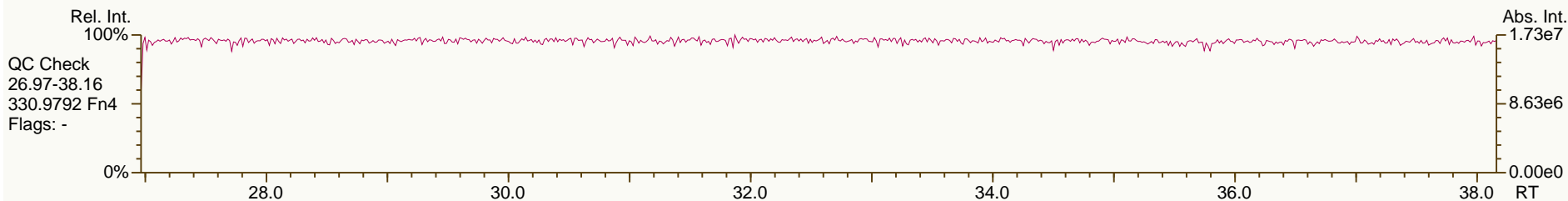
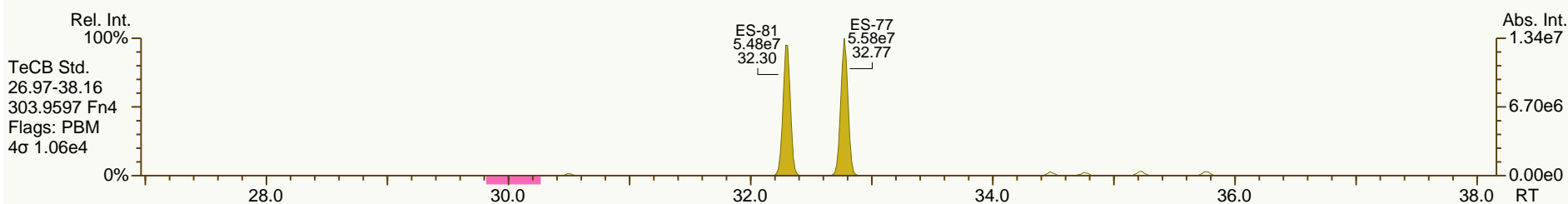
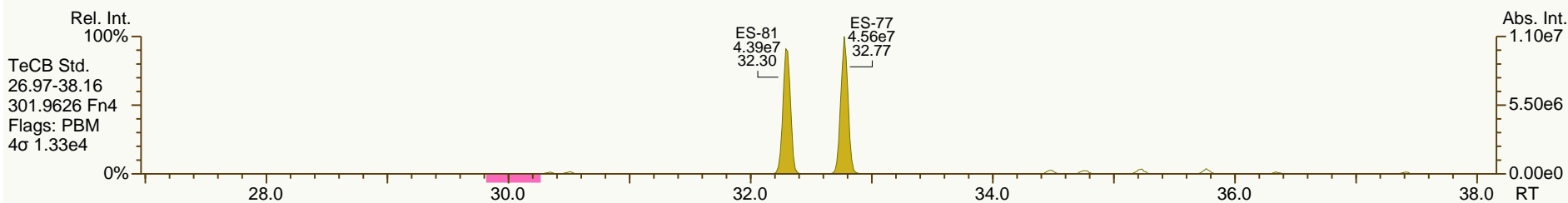
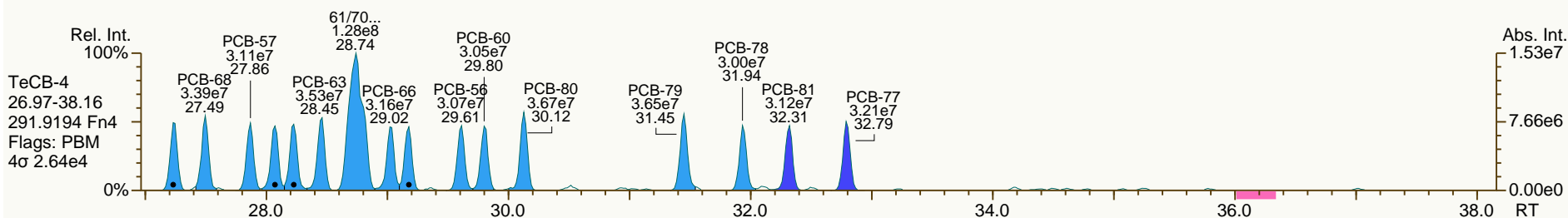
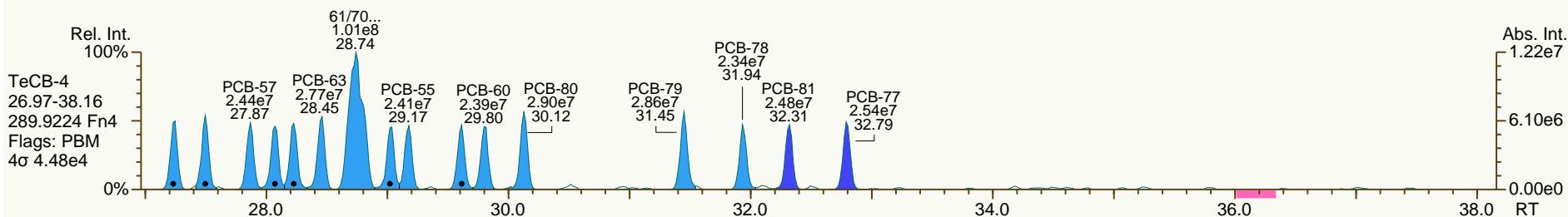
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Instr: AutoSpec-Premier MM7

Sample ID: 0\_11899\_OPR001  
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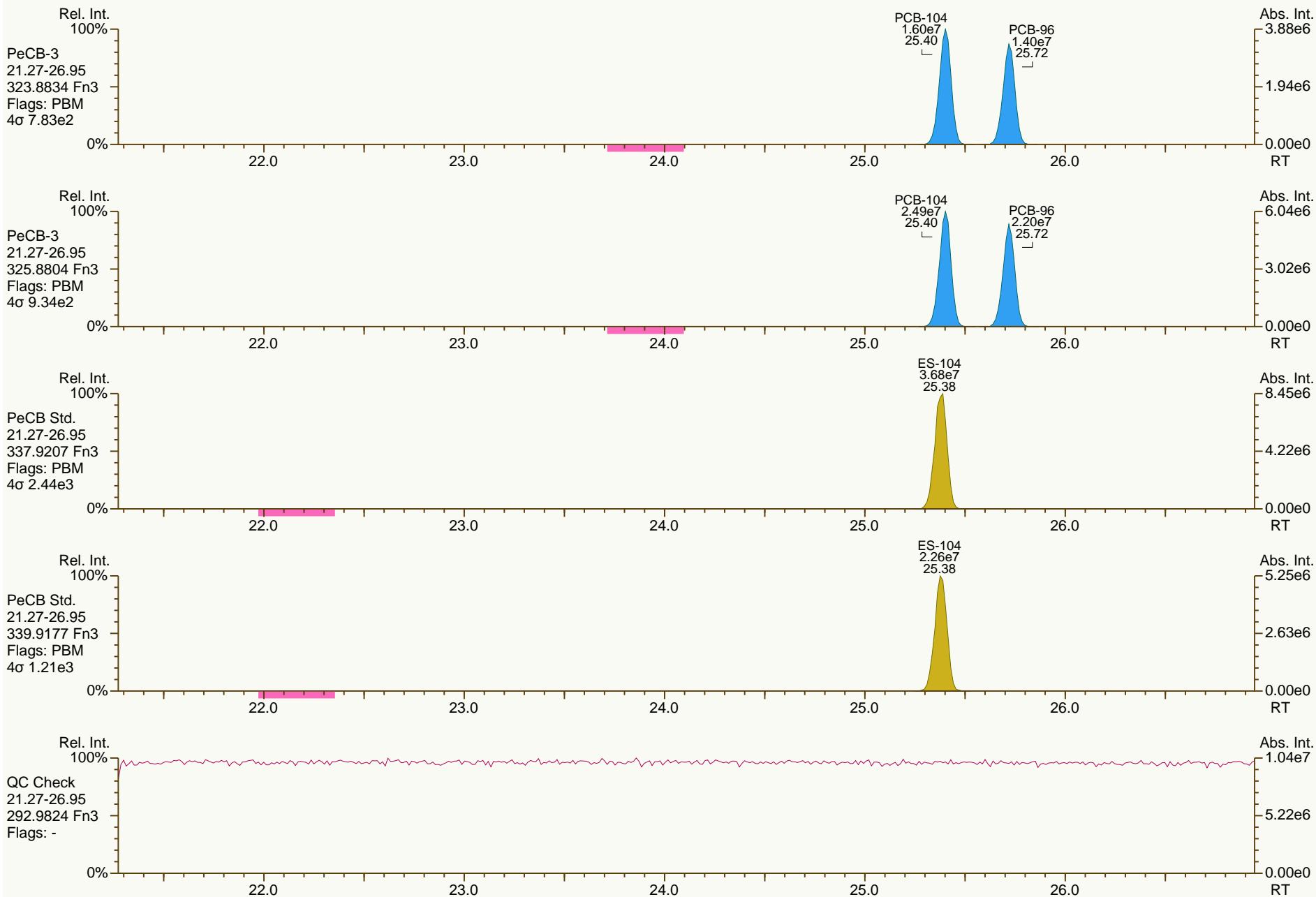




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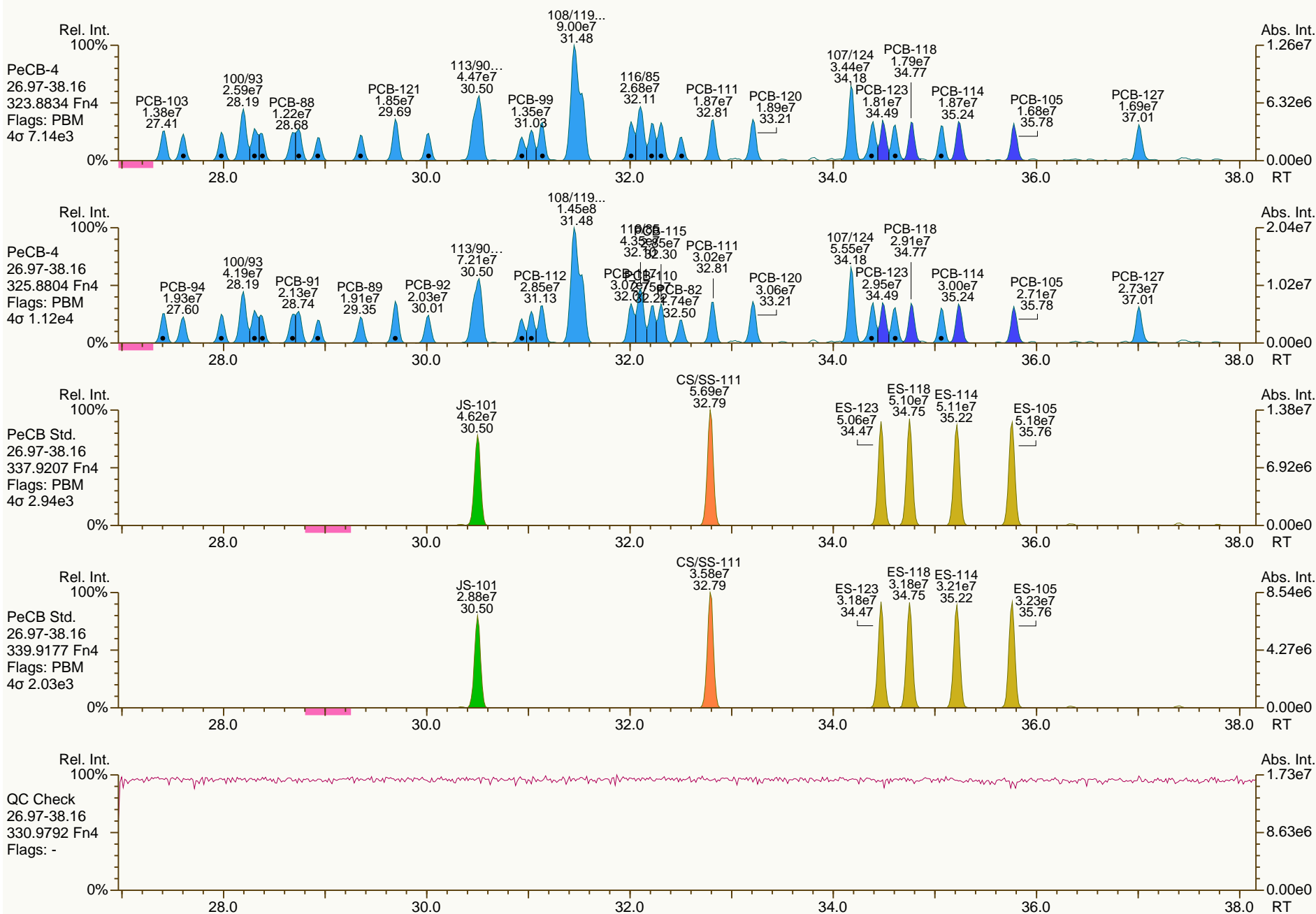
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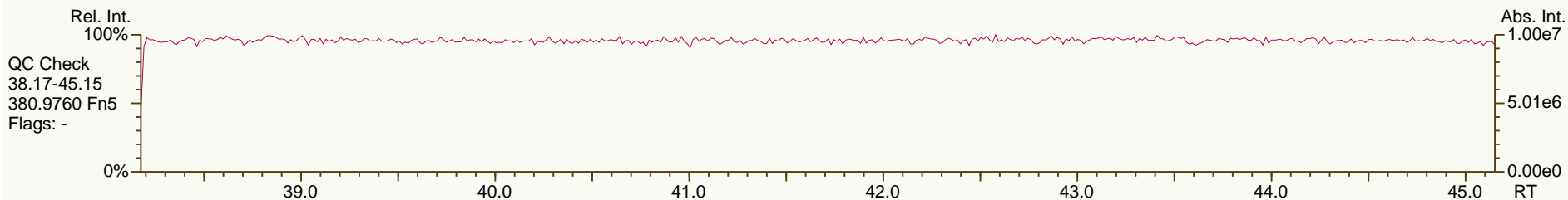
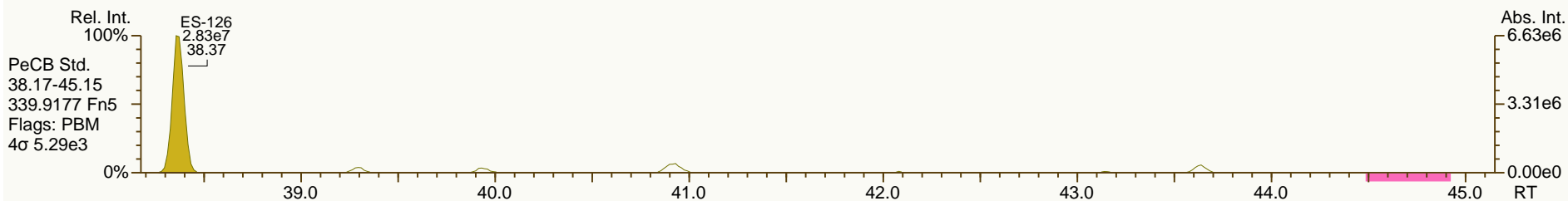
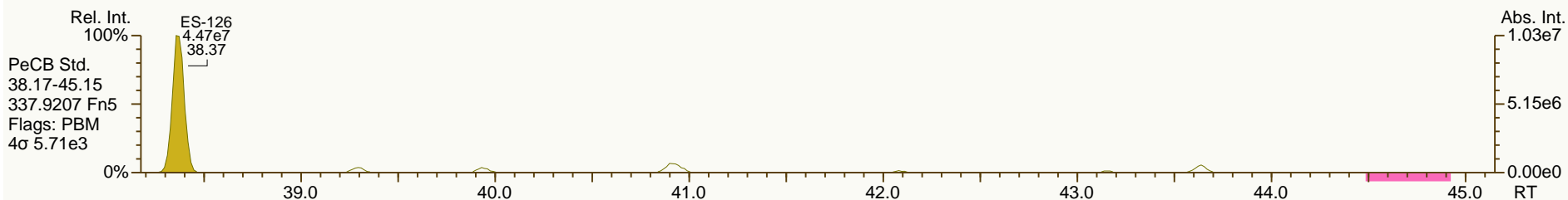
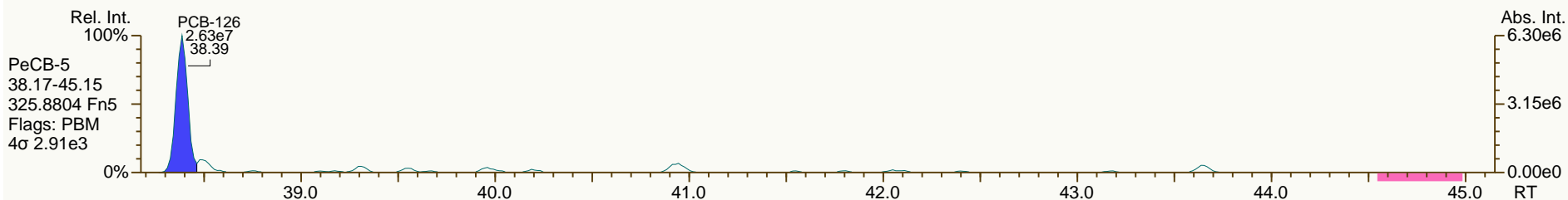
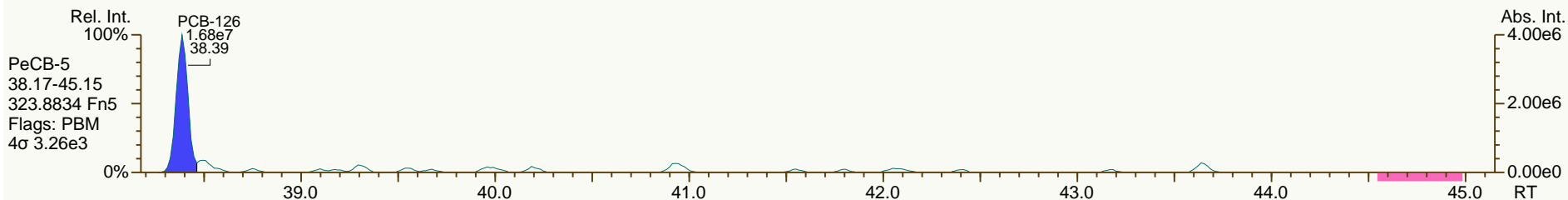
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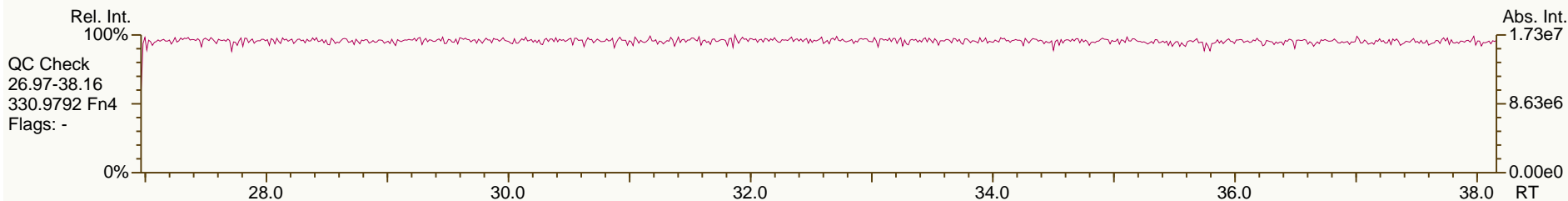
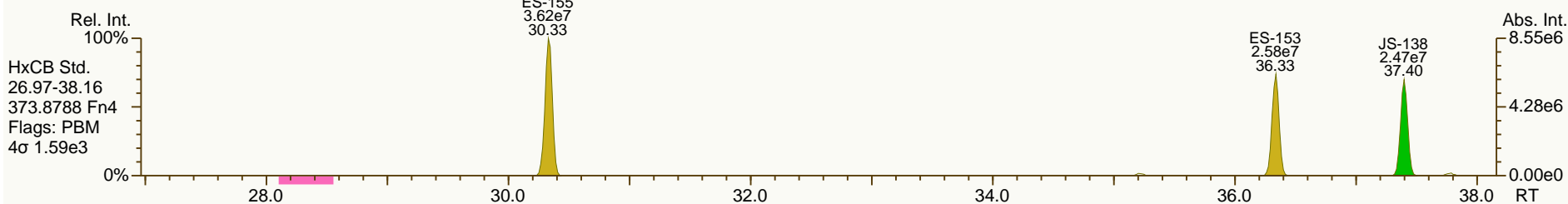
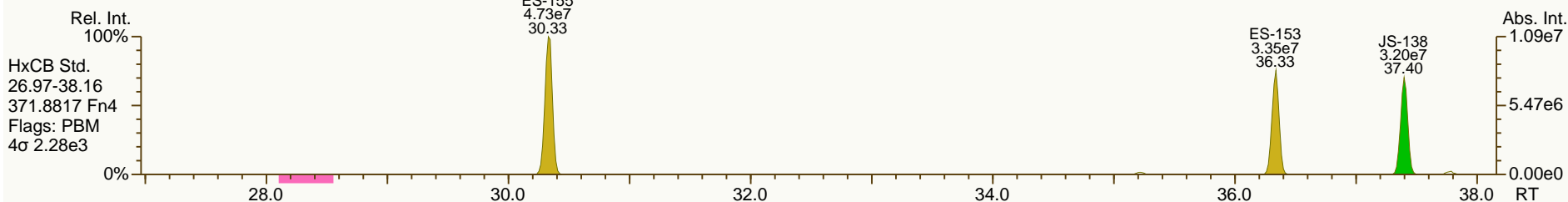
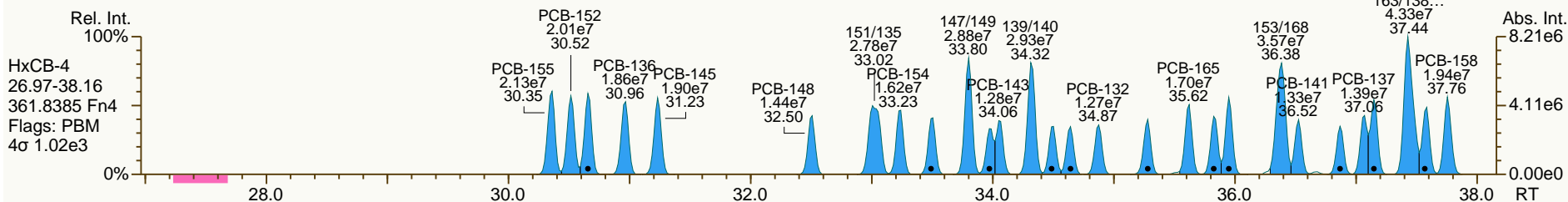
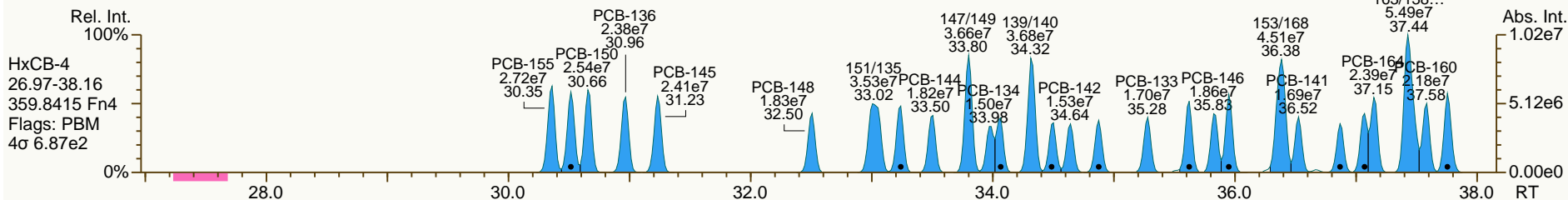
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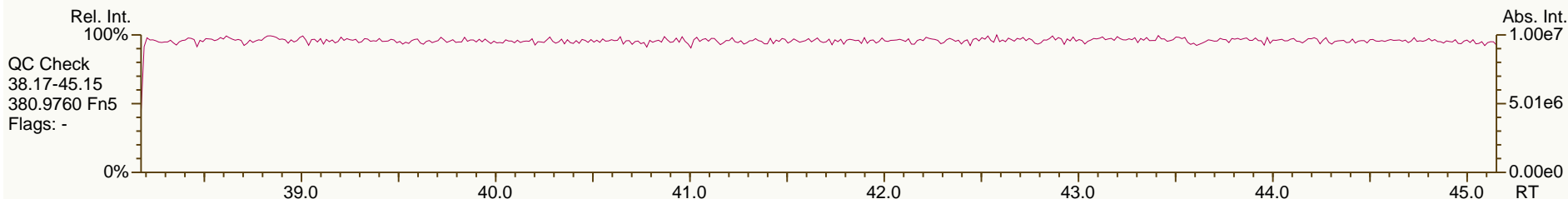
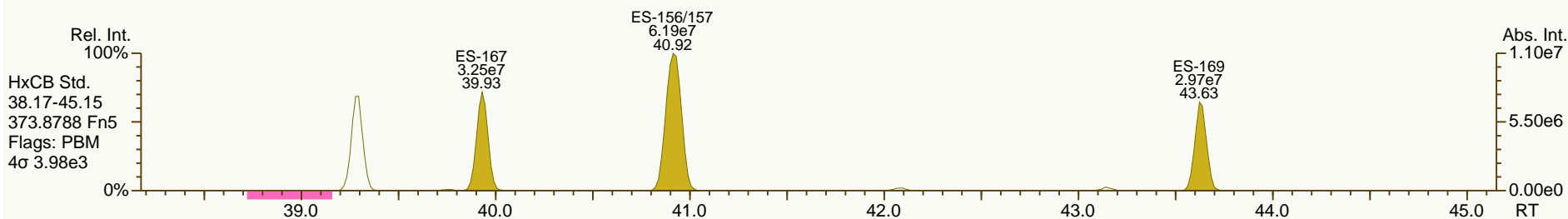
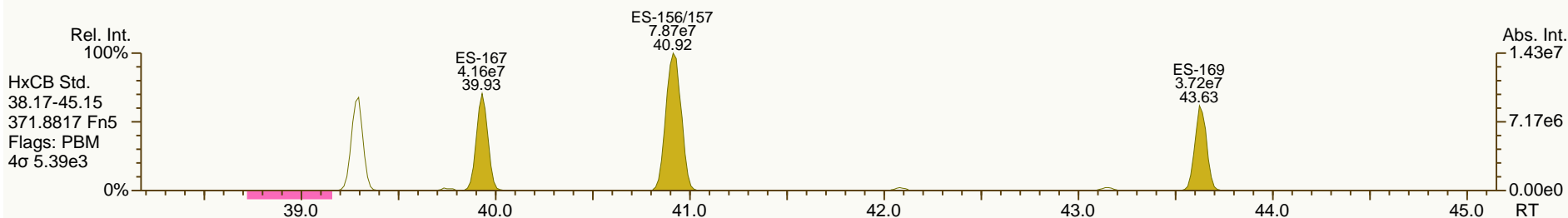
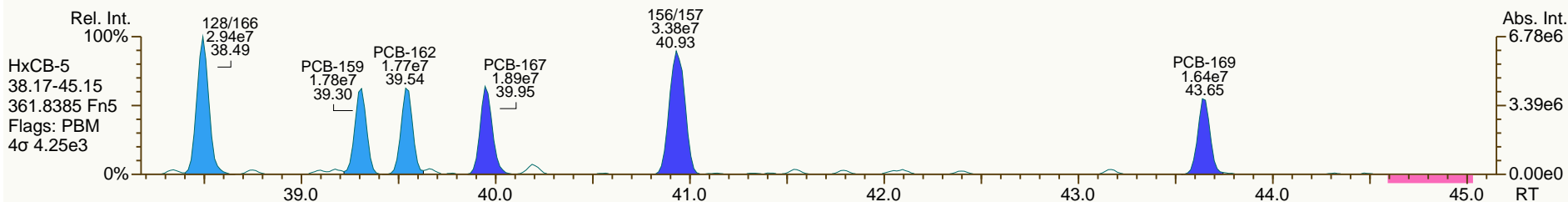
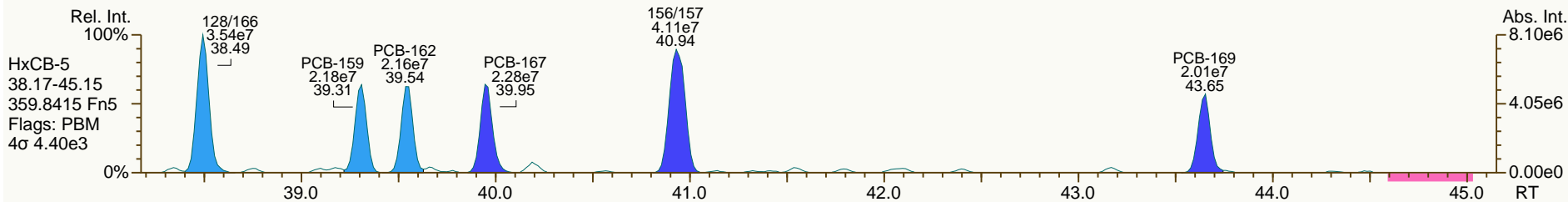
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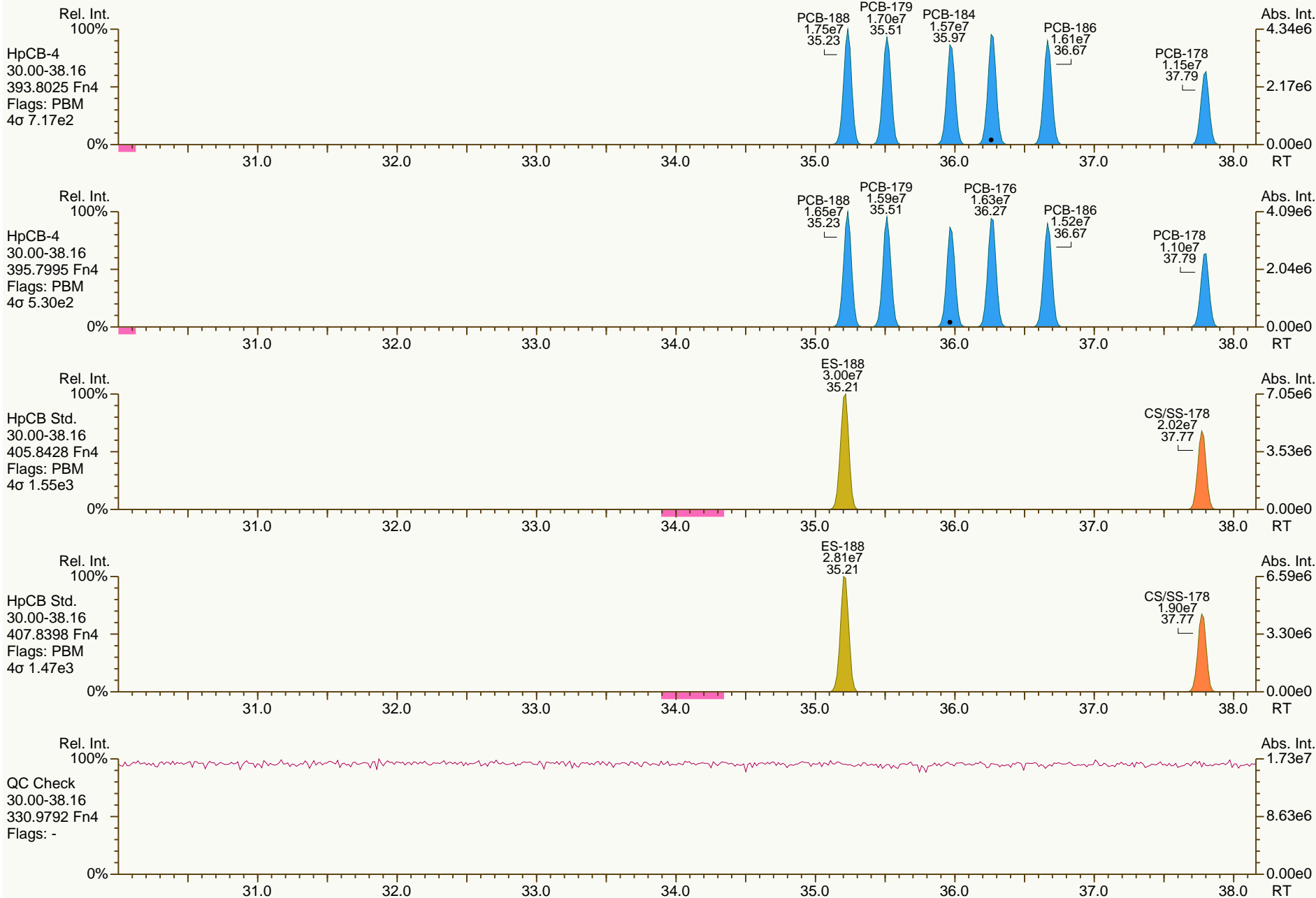
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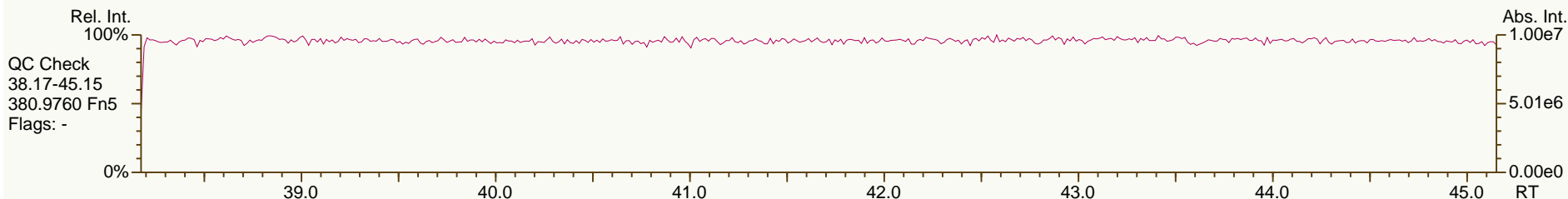
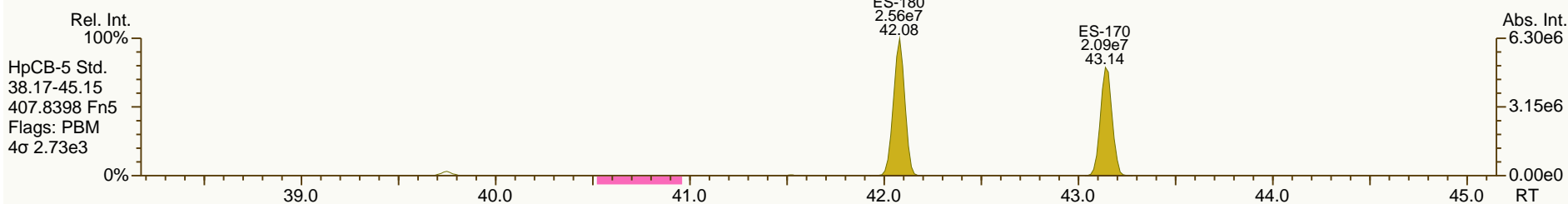
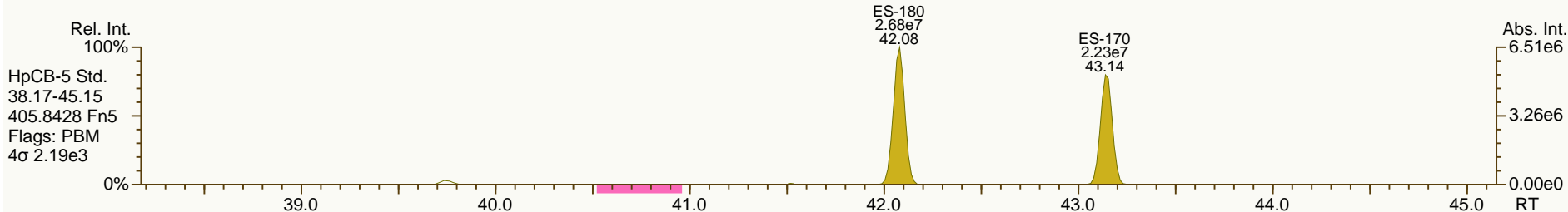
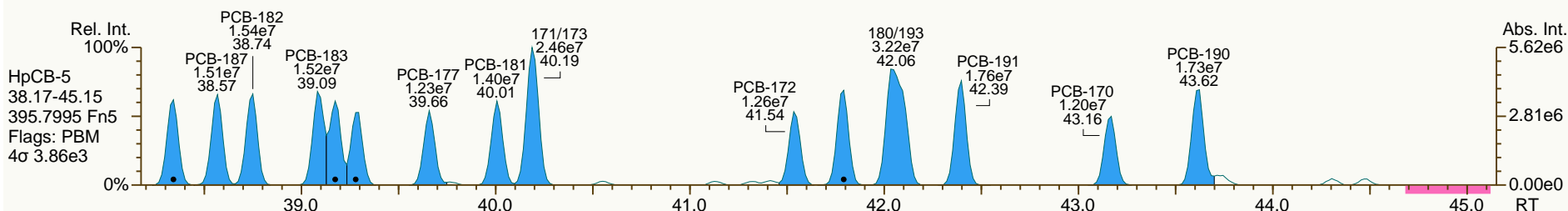
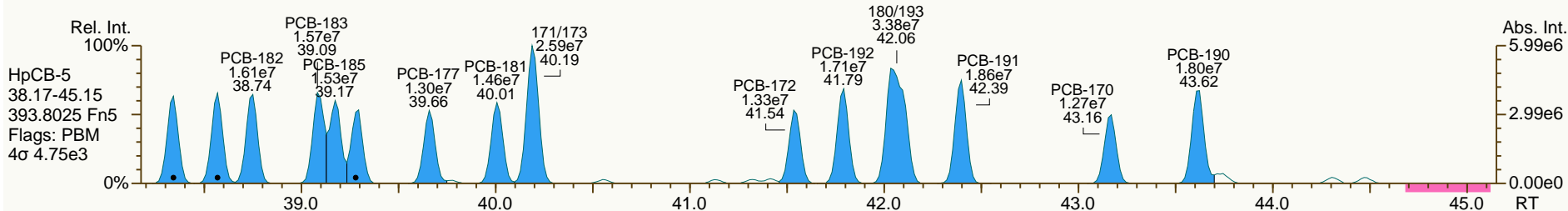
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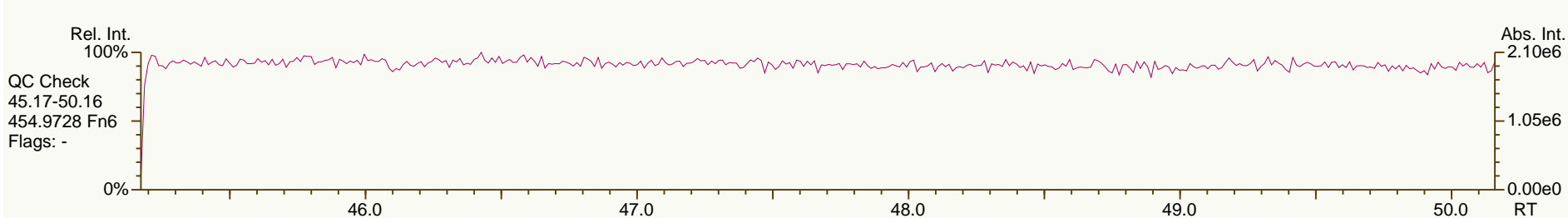
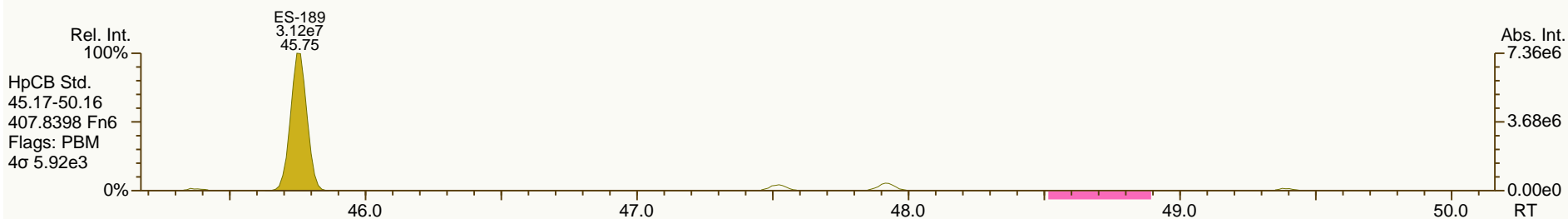
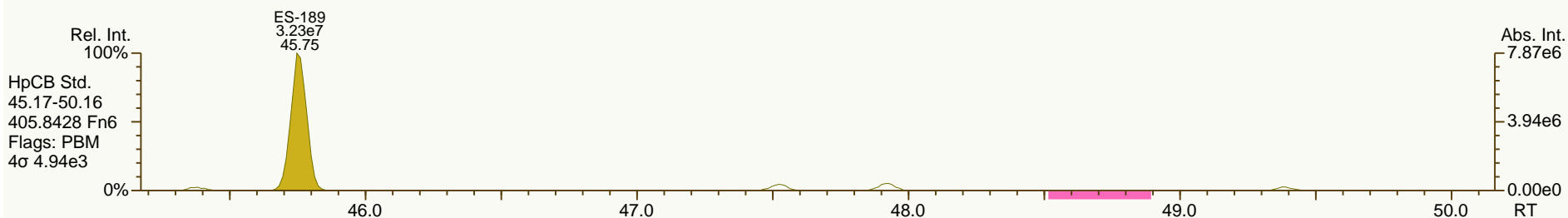
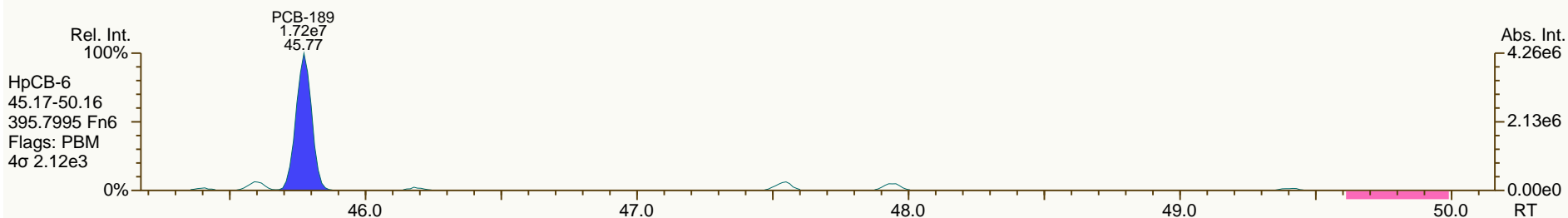
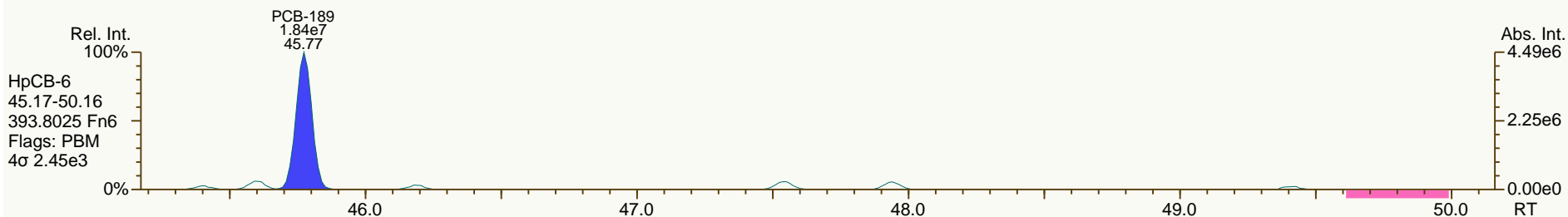
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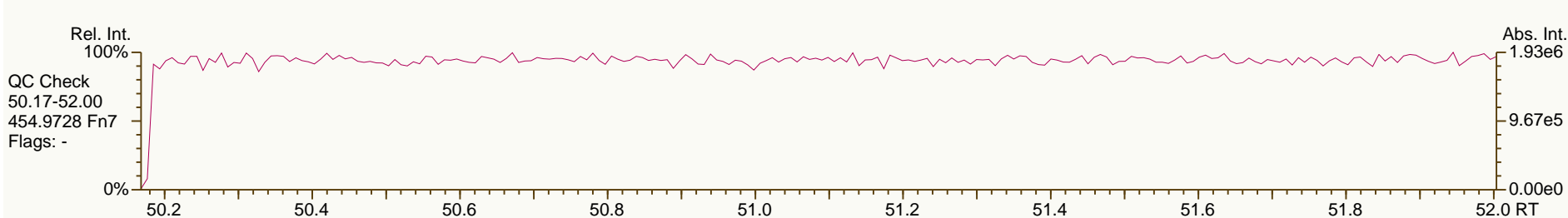
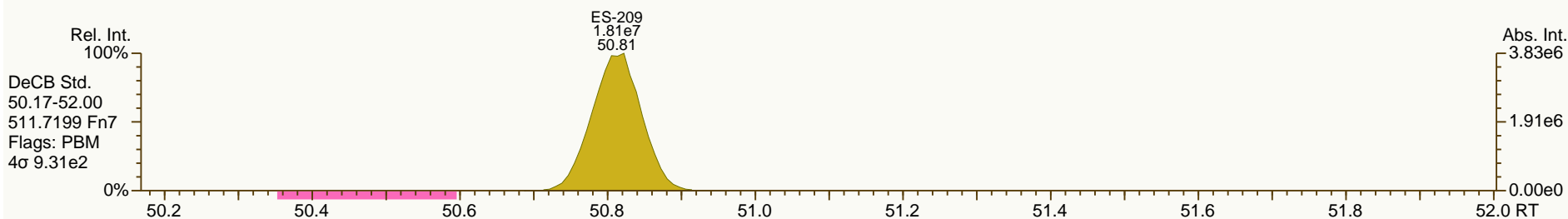
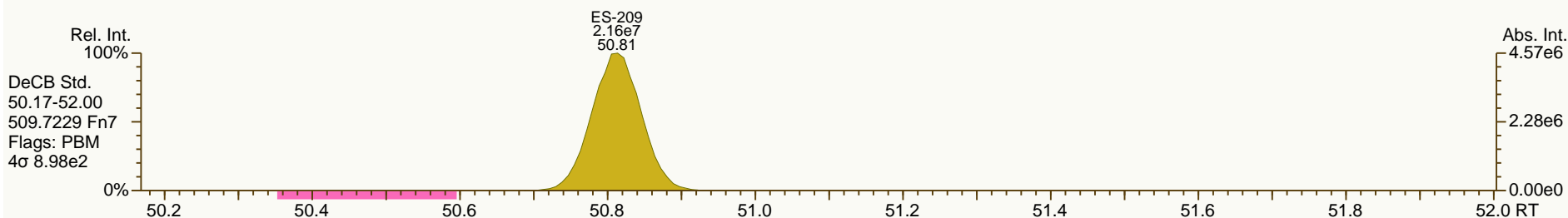
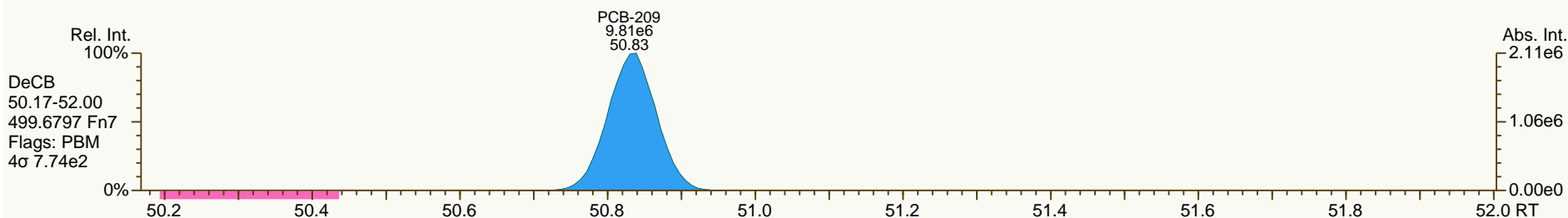
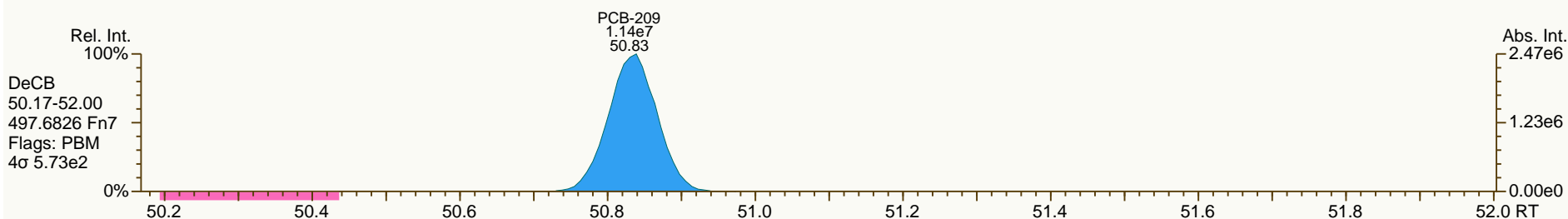
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4 APRIL 2014

**DELANEY PETERSON  
ANCHOR QEA**

7200 Olive Way, Ste 300  
Seattle WA 98101

t. 206-287-9130  
e. DPeterson@anchorqea.com

**SUBJECT: CERTIFICATE OF RESULTS**

Dear Delaney;

Attached to this narrative are the analytical results for sample(s) submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes information about the project. If applicable, QC annotations below highlight specific analytical observations and assessments made during the sample handling and data interpretation phases.

Results reported relate only to the items tested.

**PROJECT INFORMATION SUMMARY** *(When applicable, see QC Annotations for details)*

Client Project	Patrick Bayou Superfund Ste
SGS Project #	A6517
Analytical Protocol(s)	Method 1668A
No. Samples Submitted	1
Additional QC Sample(s)	0
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
Date Received	18-Mar-2014
Condition Received	good
Temperature upon Receipt (C)	1.9
Extraction within Holding Time	yes
Analysis within Holding Time	yes

**QC ANNOTATIONS:**

- |    |  |
|----|--|
| 1. | Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project. |
|----|--|

SGS remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at [www.sgs.com/ultratrace](http://www.sgs.com/ultratrace) and click on the 'Email Us' link or go to our survey [here](#). Thank you for choosing SGS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amy J. Boehm', with a long horizontal flourish extending to the right.

Digitally signed by Amy Boehm

Date: 2014.04.04 11:13:13

-04'00'

Amy J. Boehm

Senior Project Manager



## APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. <sup>1</sup>
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. <sup>1</sup>
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



## APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

## APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.





## SGS CERTIFICATIONS

California	07255CA
Connecticut	PH-0258
Florida (primary NELAP)	E87634
ISO17025	2726.01
Kansas	E-10330
Louisiana	04115
Maryland (DW only)	299
New Jersey	NC100
New York	11685
North Carolina DENR	481
North Carolina DHHS (DW only)	37776
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029
Texas	T104704260-13-5
Utah	NC009192013-3
Virginia (DW only)	00235
Virginia	460214
Washington State	C913
West Virginia	293

## Sample ID: PB081\_A-2SWMID-140315-N

## Method 1668A

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6517	Date Received:	18-Mar-2014
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	1.18 L	Sample ID:	A6517_11903_PCB_001-RJ	Date Extracted:	20-Mar-2014
Date Collected:	15-Mar-2014	pH	6	QC Batch No.:	11903	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	46.2				ES PCB-1	71.8	
PCB-81 344'5'-TeCB	1.96			J	ES PCB-3	84.8	
PCB-105 233'44'-PeCB	143				ES PCB-4	105	
PCB-114 2344'5'-PeCB	8.76				ES PCB-15	110	
PCB-118 23'44'5'-PeCB	258				ES PCB-19	109	
PCB-123 23'44'5'-PeCB	7.08			J	ES PCB-37	93.1	
PCB-126 33'44'5'-PeCB	EMPC		1.49	J	ES PCB-54	119	
PCB-156/157 233'44'5'/233'44'5'-HxCB	15.8			J C	ES PCB-77	98	
PCB-167 23'44'55'-HxCB	4.97			J	ES PCB-81	96.2	
PCB-169 33'44'55'-HxCB	ND	0.28			ES PCB-104	130	
PCB-189 233'44'55'-HpCB	0.937			J	ES PCB-105	107	
					ES PCB-114	104	
<b>TEQs (WHO M/H)</b>					ES PCB-118	108	
					ES PCB-123	109	
ND = 0	0.0184		0.167		ES PCB-126	112	
ND = 0.5 x DL	0.0493		0.172		ES PCB-153	100	
ND = DL	0.0802		0.176		ES PCB-155	100	
					ES PCB-156/157	89.3	
<b>Totals</b>					ES PCB-167	89.6	
Mono-CBs	31.1				ES PCB-169	89.3	
Di-CBs	420				ES PCB-170	106	
Tri-CBs	3,420				ES PCB-180	109	
Tetra-CBs	6,910				ES PCB-188	121	
Penta-CBs	2,520		2,520		ES PCB-189	102	
Hexa-CBs	559		564		ES PCB-202	114	
Hepta-CBs	147		152		ES PCB-205	93.3	
Octa-CBs	36.9		38.9		ES PCB-206	97.3	
Nona-CBs	11				ES PCB-208	110	
Deca-CB	52.2				ES PCB-209	89.6	
					CS PCB-28	104	
Total PCB (Mono-Deca)	14,100		14,100		CS PCB-111	118	
					CS PCB-178	135	

Checkcode: 544-381-QBT


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Report Created: 04-Apr-2014 09:46 Analyst: ds



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USA

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Sample ID: PB081_A-2SWMID-140315-N						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6517			Date Received: 18-Mar-2014								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 1.18 L			Sample ID: A6517_11903_PCB_001-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 15-Mar-2014			pH: 6			QC Batch No.: 11903			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 544-381-QBT			Time Analyzed: 20:40:49								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	26.2		PCB-19	104		PCB-54	3.65	J	PCB-72	4.39	J						
PCB-2	1.72	J	PCB-30/18	686	C	PCB-50/53	214	C	PCB-68	30.7							
PCB-3	3.18	J B	PCB-17	236		PCB-45	197		PCB-57	2.87	J						
			PCB-27	42.4		PCB-51	64.5		PCB-58	(0.649)							
<b>Conc.</b>	31.1		PCB-24	4.39	J	PCB-46	78.8		PCB-67	13.9							
<b>EMPC</b>	31.1		PCB-16	233		PCB-52	1,180		PCB-63	22.8							
			PCB-32	227		PCB-73	2.28	J	PCB-61/70/74/76	1,020	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	3.32	J	PCB-43	38.1		PCB-66	629							
PCB-4	155		PCB-23	(1.04)		PCB-69/49	581	C	PCB-55	6.49	J						
PCB-10	5.4	J	PCB-26/29	122	C	PCB-48	172		PCB-56	298							
PCB-9	7.72	J	PCB-25	87.9		PCB-44/47/65	982	C	PCB-60	130							
PCB-7	3.19	J	PCB-31	625		PCB-59/62/75	71.9	C	PCB-80	(0.6)							
PCB-6	55.1		PCB-28/20	630	C	PCB-42	245		PCB-79	4.53	J						
PCB-5	2.16	J	PCB-21/33	152	C	PCB-41	57.6		PCB-78	(0.721)							
PCB-8	101		PCB-22	165		PCB-71/40	438	C	PCB-81	1.96	J						
PCB-14	(0.319)		PCB-36	(0.997)		PCB-64	368		PCB-77	46.2							
PCB-11	20.4	B	PCB-39	5.14	J												
PCB-13/12	15.8	J C	PCB-38	(1.08)													
PCB-15	53.8		PCB-35	8.23	J												
			PCB-37	87.2													
<b>Conc.</b>	420		<b>Conc.</b>	3,420					<b>Conc.</b>	6,910							
<b>EMPC</b>	420		<b>EMPC</b>	3,420					<b>EMPC</b>	6,910							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						3,870			3,870		
						Tetra-Hexa						9,980			9,990		
						Hepta-Deca						247			254		
						Mono-Deca			14,100								

Sample ID: PB081_A-2SWMID-140315-N						Method 1668A					
Penta			Penta			Hexa			Hexa		
Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers	
PCB-104	(0.163)		PCB-108/119/86/97/125/87	283	C	PCB-155	[0.294]	J EMPC	PCB-165	(0.184)	
PCB-96	10		PCB-117	8.84		PCB-152	0.364	J	PCB-146	17.8	
PCB-103	3.22	J	PCB-116/85	104	C	PCB-150	0.236	J	PCB-161	(0.169)	
PCB-94	4.5	J	PCB-110	396		PCB-136	17.4		PCB-153/168	87.5	C
PCB-95	294		PCB-115	10.6		PCB-145	(0.15)		PCB-141	22.3	
PCB-100/93	7.39	J C	PCB-82	71.7		PCB-148	(0.217)		PCB-130	10.2	
PCB-102	22		PCB-111	(0.354)		PCB-151/135	35.5	C	PCB-137	7.57	J
PCB-98	(0.58)		PCB-120	[0.517]	J EMPC	PCB-154	[1.19]	J EMPC	PCB-164	8.81	
PCB-88	4.51	J	PCB-107/124	11.8	J C	PCB-144	5.74	J	PCB-163/138/129	138	C
PCB-91	71.8		PCB-109	21.8		PCB-147/149	90.9	C	PCB-160	(0.179)	
PCB-84	140		PCB-123	7.08	J	PCB-134	7.84	J	PCB-158	14.1	
PCB-89	14.1		PCB-106	[1.11]	J EMPC	PCB-143	[0.667]	J EMPC	PCB-128/166	22.7	C
PCB-121	(0.357)		PCB-118	258		PCB-139/140	2.84	J C	PCB-159	[0.933]	J EMPC
PCB-92	62		PCB-122	6.12	J	PCB-131	2.46	J	PCB-162	0.525	J
PCB-113/90/101	322	C	PCB-114	8.76		PCB-142	(0.262)		PCB-167	4.97	J
PCB-83	21.2		PCB-105	143		PCB-132	46		PCB-156/157	15.8	J C
PCB-99	210		PCB-127	(0.393)		PCB-133	[1.66]	J EMPC	PCB-169	(0.28)	
PCB-112	(0.366)		PCB-126	1.49	J EMPC						
			<b>Conc.</b>	2,520					<b>Conc.</b>	559	
			<b>EMPC</b>	2,520					<b>EMPC</b>	564	
Hepta			Hepta			Octa			Nona		
Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers		Conc.	Qualifiers	
PCB-188	(0.19)		PCB-174	18.9		PCB-202	1.97	J	PCB-208	3.06	J
PCB-179	7.89	J	PCB-177	11.7		PCB-201	[1.53]	J EMPC	PCB-207	2.64	J
PCB-184	0.395	J	PCB-181	[0.459]	J EMPC	PCB-204	(0.252)		PCB-206	5.28	J
PCB-176	2.41	J	PCB-171/173	6.4	J C	PCB-197	[0.458]	J EMPC			
PCB-186	(0.225)		PCB-172	3.43	J	PCB-200	1.08	J	<b>Conc.</b>	11	
PCB-178	[3.63]	J EMPC	PCB-192	(0.33)		PCB-198/199	10.9	J C	<b>EMPC</b>	11	
PCB-175	0.72	J	PCB-180/193	38.5	C	PCB-196	4.49	J			
PCB-187	21		PCB-191	[0.781]	J EMPC	PCB-203	5.32	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.361)		PCB-170	19.5		PCB-195	3.89	J	PCB-209	52.2	
PCB-183	9.77		PCB-190	3.64	J	PCB-194	9.27				
PCB-185	2.07	J	PCB-189	0.937	J	PCB-205	(0.363)				
			<b>Conc.</b>	147		<b>Conc.</b>	36.9				
			<b>EMPC</b>	152		<b>EMPC</b>	38.9				

## Sample ID: Method Blank A6517

## Method 1668A

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6517	Date Received:	n/a
Project ID:	Patrick Bayou Superfund Site	Weight/Volume:	1.00 L	Sample ID:	MB1_11903_PCB_TLX-RJ2	Date Extracted:	20-Mar-2014
Date Collected:	n/a	pH	n/a	QC Batch No.:	11903	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	1.64			ES PCB-1	95.7	
PCB-81 344'5'-TeCB	ND	1.81			ES PCB-3	110	
PCB-105 233'44'-PeCB	ND	1.05			ES PCB-4	133	
PCB-114 2344'5'-PeCB	ND	0.995			ES PCB-15	133	
PCB-118 23'44'5'-PeCB	2.91			J	ES PCB-19	136	
PCB-123 23'44'5'-PeCB	ND	0.992			ES PCB-37	114	
PCB-126 33'44'5'-PeCB	ND	1.36			ES PCB-54	147	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	1.45		C	ES PCB-77	120	
PCB-167 23'44'55'-HxCB	ND	0.906			ES PCB-81	117	
PCB-169 33'44'55'-HxCB	ND	1.08			ES PCB-104	158 V	
PCB-189 233'44'55'-HpCB	ND	1.02			ES PCB-105	128	
					ES PCB-114	128	
<b>TEQs (WHO M/H)</b>					ES PCB-118	134	
					ES PCB-123	130	
ND = 0	0.0000873		0.0000873		ES PCB-126	132	
ND = 0.5 x DL	0.0847		0.0847		ES PCB-153	123	
ND = DL	0.169		0.169		ES PCB-155	125	
					ES PCB-156/157	107	
<b>Totals</b>					ES PCB-167	111	
Mono-CBs	2.77				ES PCB-169	108	
Di-CBs	8.82				ES PCB-170	126	
Tri-CBs	2.06		6.84		ES PCB-180	126	
Tetra-CBs	12.8		14.8		ES PCB-188	149	
Penta-CBs	12.4		20.9		ES PCB-189	126	
Hexa-CBs	8.51		13.4		ES PCB-202	138	
Hepta-CBs	ND	1.21			ES PCB-205	121	
Octa-CBs	ND	1.27			ES PCB-206	133	
Nona-CBs	ND	3.37			ES PCB-208	139	
Deca-CB	ND	1.31			ES PCB-209	128	
					CS PCB-28	124	
Total PCB (Mono-Deca)	47.4		67.5		CS PCB-111	139 V	
					CS PCB-178	161 V	

Checkcode: 680-324-FDZ


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Report Created: 04-Apr-2014 09:44 Analyst: ds



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Sample ID: Method Blank A6517						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6517			Date Received: n/a								
Project ID: Patrick Bayou Superfund Site			Weight/Volume: 1.00 L			Sample ID: MB1_11903_PCB_TLX-RJ2			Date Extracted: 20-Mar-2014								
Date Collected: n/a			pH: n/a			QC Batch No.: 11903			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 680-324-FDZ			Time Analyzed: 19:45:47								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	1.08	J	PCB-19	(2.56)		PCB-54	(0.971)		PCB-72	(1.6)							
PCB-2	(1.22)		PCB-30/18	(1.88)	C	PCB-50/53	(1.51)	C	PCB-68	(1.5)							
PCB-3	1.69	J	PCB-17	(2.21)		PCB-45	(1.66)		PCB-57	(1.66)							
			PCB-27	(1.61)		PCB-51	(1.55)		PCB-58	(1.58)							
<b>Conc.</b>	<b>2.77</b>		PCB-24	(1.69)		PCB-46	(1.89)		PCB-67	(1.52)							
<b>EMPC</b>	<b>2.77</b>		PCB-16	(2.97)		PCB-52	5.34	J	PCB-63	(1.44)							
			PCB-32	(1.52)		PCB-73	(1.16)		PCB-61/70/74/76	3.84	J C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.64)		PCB-43	(1.84)		PCB-66	(1.71)							
PCB-4	(2.05)		PCB-23	(1.62)		PCB-69/49	[2]	J EMPC C	PCB-55	(1.71)							
PCB-10	(1.31)		PCB-26/29	(1.6)	C	PCB-48	(1.54)		PCB-56	(1.73)							
PCB-9	(2.03)		PCB-25	(1.62)		PCB-44/47/65	3.67	J C	PCB-60	(1.68)							
PCB-7	(1.78)		PCB-31	[1.96]	J EMPC	PCB-59/62/75	(1.11)	C	PCB-80	(1.47)							
PCB-6	(1.91)		PCB-28/20	[2.82]	J EMPC C	PCB-42	(1.7)		PCB-79	(1.47)							
PCB-5	(1.9)		PCB-21/33	2.06	J C	PCB-41	(1.82)		PCB-78	(1.76)							
PCB-8	(1.89)		PCB-22	(1.7)		PCB-71/40	(1.52)	C	PCB-81	(1.81)							
PCB-14	(1.59)		PCB-36	(1.55)		PCB-64	(1.05)		PCB-77	(1.64)							
PCB-11	8.82	J	PCB-39	(1.51)													
PCB-13/12	(1.86)	C	PCB-38	(1.68)													
PCB-15	(1.92)		PCB-35	(1.72)													
			PCB-37	(1.9)													
<b>Conc.</b>	<b>8.82</b>		<b>Conc.</b>	<b>2.06</b>					<b>Conc.</b>	<b>12.8</b>							
<b>EMPC</b>	<b>8.82</b>		<b>EMPC</b>	<b>6.84</b>					<b>EMPC</b>	<b>14.8</b>							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						13.6			18.4		
						Tetra-Hexa						33.7			49.1		
						Hepta-Deca						0			0		
						Mono-Deca						47.4			67.5		

Sample ID: Method Blank A6517						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.755)		PCB-108/119/86/97/125/87	[2.67]	J EMPC C	PCB-155	(0.61)		PCB-165	(0.867)	
PCB-96	(0.915)		PCB-117	(1.02)		PCB-152	(0.675)		PCB-146	(1.02)	
PCB-103	(1.29)		PCB-116/85	(1.37)	C	PCB-150	(0.665)		PCB-161	(0.796)	
PCB-94	(1.52)		PCB-110	5.2	J	PCB-136	(0.726)		PCB-153/168	[2.85]	J EMPC C
PCB-95	4.27	J	PCB-115	(1.04)		PCB-145	(0.703)		PCB-141	(1.13)	
PCB-100/93	(1.4)	C	PCB-82	(1.75)		PCB-148	(1.02)		PCB-130	(1.28)	
PCB-102	(1.2)		PCB-111	(0.996)		PCB-151/135	2	J C	PCB-137	(1.05)	
PCB-98	(1.63)		PCB-120	(0.982)		PCB-154	(0.913)		PCB-164	(0.822)	
PCB-88	(1.55)		PCB-107/124	(1.09)	C	PCB-144	(1.03)		PCB-163/138/129	2.96	J C
PCB-91	(1.31)		PCB-109	(0.97)		PCB-147/149	3.55	J C	PCB-160	(0.845)	
PCB-84	(1.68)		PCB-123	(0.992)		PCB-134	(1.26)		PCB-158	(0.765)	
PCB-89	(1.58)		PCB-106	(1.08)		PCB-143	(1.15)		PCB-128/166	(1.17)	C
PCB-121	(1)		PCB-118	2.91	J	PCB-139/140	(1.04)	C	PCB-159	(0.956)	
PCB-92	(1.48)		PCB-122	(1.16)		PCB-131	(1.2)		PCB-162	(0.954)	
PCB-113/90/101	[4.17]	J EMPC C	PCB-114	(0.995)		PCB-142	(1.24)		PCB-167	(0.906)	
PCB-83	(1.73)		PCB-105	(1.05)		PCB-132	[2.01]	J EMPC	PCB-156/157	(1.45)	C
PCB-99	[1.67]	J EMPC	PCB-127	(1.05)		PCB-133	(1.12)		PCB-169	(1.08)	
PCB-112	(1.03)		PCB-126	(1.36)							
			<b>Conc.</b>	12.4					<b>Conc.</b>	8.51	
			<b>EMPC</b>	20.9					<b>EMPC</b>	13.4	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.882)		PCB-174	(1.6)		PCB-202	(1.24)		PCB-208	(2.71)	
PCB-179	(0.994)		PCB-177	(1.63)		PCB-201	(1.14)		PCB-207	(2.59)	
PCB-184	(1.06)		PCB-181	(1.4)		PCB-204	(1.21)		PCB-206	(4.03)	
PCB-176	(0.978)		PCB-171/173	(1.6)	C	PCB-197	(1.18)				
PCB-186	(1.05)		PCB-172	(1.54)		PCB-200	(1.2)		<b>Conc.</b>	0	
PCB-178	(1.45)		PCB-192	(1.17)		PCB-198/199	(1.75)	C	<b>EMPC</b>	0	
PCB-175	(1.4)		PCB-180/193	(1.21)	C	PCB-196	(1.64)				
PCB-187	(1.31)		PCB-191	(1.09)		PCB-203	(1.56)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.28)		PCB-170	(1.52)		PCB-195	(1.91)		PCB-209	(1.31)	
PCB-183	(1.26)		PCB-190	(1.08)		PCB-194	(1.71)				
PCB-185	(1.36)		PCB-189	(1.02)		PCB-205	(1.3)				
			<b>Conc.</b>	0		<b>Conc.</b>	0				
			<b>EMPC</b>	0		<b>EMPC</b>	0				

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	112	50 - 150	Y
PCB-3 4-MoCB	50	113	50 - 150	Y
PCB-4 22'-DiCB	50	94.1	50 - 150	Y
PCB-15 44'-DiCB	50	104	50 - 150	Y
PCB-19 22'6'-TrCB	50	96.8	50 - 150	Y
PCB-37 344'-TrCB	50	112	50 - 150	Y
PCB-54 22'66'-TeCB	50	94	50 - 150	Y
PCB-77 33'44'-TeCB	50	102	50 - 150	Y
PCB-81 344'5'-TeCB	50	105	50 - 150	Y
PCB-104 22'466'-PeCB	50	93.3	50 - 150	Y
PCB-105 233'44'-PeCB	50	97.6	50 - 150	Y
PCB-114 2344'5'-PeCB	50	99.2	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	97.6	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	98.8	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	105	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	96.2	50 - 150	Y
PCB-156/157 ...-HxCB	100	98.9	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	97.5	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	95.8	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	92.8	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	102	50 - 150	Y
PCB-202 22'33'55'66'-OxCB	50	97.9	50 - 150	Y
PCB-205 233'44'55'6-OxCB	50	98.1	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	99.7	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	99.2	50 - 150	Y
PCB-209 DeCB	50	96.9	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 04 Apr 2014 09:49

Analyst: ds



**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	86.7	15	-	140	Y
ES PCB-3	100	89.1	15	-	140	Y
ES PCB-4	100	110	30	-	140	Y
ES PCB-15	100	107	30	-	140	Y
ES PCB-19	100	108	30	-	140	Y
ES PCB-37	100	96	30	-	140	Y
ES PCB-54	100	119	30	-	140	Y
ES PCB-77	100	100	30	-	140	Y
ES PCB-81	100	98.9	30	-	140	Y
ES PCB-104	100	129	30	-	140	Y
ES PCB-105	100	109	30	-	140	Y
ES PCB-114	100	106	30	-	140	Y
ES PCB-118	100	109	30	-	140	Y
ES PCB-123	100	106	30	-	140	Y
ES PCB-126	100	117	30	-	140	Y
ES PCB-153	100	98.4	30	-	140	Y
ES PCB-155	100	97	30	-	140	Y
ES PCB-156/157	200	90.4	30	-	140	Y
ES PCB-167	100	90.6	30	-	140	Y
ES PCB-169	100	97.7	30	-	140	Y
ES PCB-170	100	100	30	-	140	Y
ES PCB-180	100	102	30	-	140	Y
ES PCB-188	100	119	30	-	140	Y
ES PCB-189	100	102	30	-	140	Y
ES PCB-202	100	111	30	-	140	Y
ES PCB-205	100	99.2	30	-	140	Y
ES PCB-206	100	107	30	-	140	Y
ES PCB-208	100	111	30	-	140	Y
ES PCB-209	100	102	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	98.8	40	-	125	Y
CS PCB-111	100	112	40	-	125	Y
CS PCB-178	100	129	40	-	125	N

Processed: 04 Apr 2014 09:49

Analyst: ds



# Sample Receipt Notification

2714 Exchange Drive  
Wilmington, NC 28405 USA  
Tel: 910 794-1613  
Toll Free: 866 846-8290  
Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 18-Mar-14 at 15:30  
**AP Project name:** A6517  
**Requested TAT:** 21 days  
**Projected due date:** 8-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou Superfund Site  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB081_A-2SWMID-140315-N	A6517_001	WS	2		15-Mar-14	10:15	1.9	1	805046133022

<b>Preservation Type:</b> Ice - Good Condition	<b>Sample Seals:</b> No	Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.
<b>Notes/Comments:</b> Samples received intact Not all samples had printed labels, see pictures for ID written on lids		

Received by: Christina Newkirk      Logged in by: Christina Newkirk

QC'ed by: AK

A 6517



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

**PROJECT INFO:**

PROJECT: 040284-01.08

PO. #:

QUOTE #:

SITE REF: Patrick Bayou

TURN AROUND TIME:

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:

EDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: Anchor QEA, LLC

CONTACT: Delaney Peterson

ADDRESS: 720 Olive Way

PHONE: Suite 1900

EMAIL: Seattle WA 98101

206-903-3396  
dpeterson@anchorqea.com

INVOICE TO:  CHECK IF SAME

COMPANY: PNL CONTACT: Bob

ADDRESS: 10497 Town Country Piniewski

PHONE: Suite 830

EMAIL: Houston TX 77024

bobp@projectnavigator.com

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE			REMARKS
None	Hel	None	
ANALYSIS & METHOD			
✓ PCB Cong	✓ TOC	✓ TSS	

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	REMARKS
				MS	MSD	DUP				
	PR081-A-2SWMID-140315-N	3/15/14	1015				G	WS	5	

COLLECTED/RELINQUISHED BY (1): <i>Tom King</i> <i>Jasen Kense</i>	DATE: 3/15/14	TIME: 1700	RECEIVED BY: FedEx	RECEIVED BY LABORATORY: <i>Christine Huber</i>	DATE: 3/15/14	TIME: 1530
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C 1.9	
				CARRIER: FedEx	TRACKING #: 8050163302	
NOTES:						

**SGS**

## Project Initiation Form

Project Number:     A6517    Initiation Date:     19-Mar-14    Client Name:     ANCHOR QEA    Sample Matrix:     Aqueous    Analysis Method:     1668A    TAT:     21 days    Project Manager:     Amy    

### Special Instructions

1668A w/ OPR

### Reporting Instructions

PM Initials:     aboehm          Date:     19-Mar-2014

TRANSFER: ON 3/25/14

RECEIVED: LIS 25-MAR-2014

SGS		1668A		Mini-Acid		Water				
Project #	A6517	Batch #	11903	Extract Init/Date:	MK 3/20/14	ASICS Init/Date:	MK 3/21/14	Transfer Init/Date:	ON 3/24/14	
AP Sample ID	Client Sample ID	Volume (mL)	Talex #	SDS #	RV		(Td)	MHA Clean-up	Observations	
					#	Initials				
A6517_11903_001	PB081_A-2SWMID-140315-N	1184	3	-	3	YB	-	MK	yellowish	
MB1_11903	Method Blank	1000	1	-	1	YB	-	MK	Talex DI H <sub>2</sub> O 02272014	
OPR1_11903	0_11903_OPR001	1000	2	-	3	YB	-	MK	Talex DI H <sub>2</sub> O 02272014	
					3/21	1/14		3/21/14		
Special Instructions:					Cycle Time			Supply IDs		
1668A w/ OPR					Start: 11:15 am			Toluene DJ460		
					Stop: 2:03 pm			CH <sub>2</sub> Cl <sub>2</sub> DH733		
								Sand		
								Florisor 03282014		
								Hexane DS686		
								Silica 12192013		
								Acid Silica 03142014		
								Base Silica 01102014		
								HydroMatrix		
								Tetradecane 04112013		
								Na <sub>2</sub> SO <sub>4</sub> M.S.O. <sub>7</sub> 02242014		
								AgNO <sub>3</sub> * Silicate 03202014		



1668A

Aqueous

Project # A6517 Batch # 11903


**Inter-Department Communication Sheet**

*eead 31MAR14*

**Special Instructions**

1668A w/ OPR



		<div style="border: 1px solid black; padding: 2px; display: inline-block;">1668A</div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Water</div>			
Project #		A6517		Batch #		11903	
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
Spiker Initials/Date:		for 3/20/14	for 3/27/14	for 3/21/14	NA 3/24/14		
AP Sample ID	Client Sample ID	PCB ES	PCB AX 209	PCB CS	PCB JS		
		Amount: 20μ	Amount: 20μ	Amount: 20μ	Amount: 10μ		
		Observer Initials	Observer Initials	Observer Initials	Observer Initials		
A6517_11903_001	PB081_A-2SWMID-140315-N	MK	-	MK	aw		
MB1_11903	Method Blank	MK	-	MK	aw		
OPR1_11903	0_11903_OPR001	MK	MK	MK	aw		
		3/20/14	3/20/14	3/21/14	3/24/14		
Standard Information							
Std. Type		PCB ES	AX 209	PCB CS/SS	PCB JS		
Spike ID		10292013B	10292013	10292013B	10292013B		
SIL #		13-96-1	13-78-1	13-96-2	13-96-3		
Concentration		100	50	100	200		
Units		pg/μL	pg/μL	pg/μL	pg/μL		
Exp. Date		12/19/14	10/29/14	12/19/14	12-19-14		
Spike amount (μL)		20	20	20	10		



### Sample Receipt Notification

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 18-Mar-14 at 15:30  
**AP Project name:** A6517  
**Requested TAT:** 21 days  
**Projected due date:** 8-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou Superfund Site  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB081_A-2SWMID-140315-N	A6517_001	WS	2		15-Mar-14	10:15	1.9	1	805046133022

<b>Preservation Type:</b>	Ice - Good Condition	<b>Sample Seals:</b>	No
<b>Notes/Comments:</b>			
Samples received intact Not all samples had printed lables, see pictures for ID written on lids		Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.	

Received by: Christina Newkirk      Logged in by: Christina Newkirk      QC'ed by: AK



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6517

**PROJECT INFO:**

PROJECT: 040284-01.08

P.O. #:

QUOTE #:

SITE REF: Patrick Bayou

TURN AROUND TIME:

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:

EDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: Anchor QEA, LLC

CONTACT: Delaney Peterson

ADDRESS: 720 Olive Way

Suite 1900

PHONE: Seattle WA 98101

EMAIL: 206-903-3396  
dpeterson@anchorqea.com

**INVOICE TO:** ( CHECK IF SAME)

COMPANY: PNL CONTACT: Bob

ADDRESS: 10497 Town & Country Piniewski

Suite 830

PHONE: Houston TX 77024

EMAIL: bobp@projectnavigator.com

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE										REMARKS
Date	HCl	None								
ANALYSIS & METHOD										REMARKS
PEB Cont	TOL	TSS								
✓	✓	✓								

COLLECTED/RELINQUISHED BY (1): <i>John King</i> <i>Jasen Kense</i>	DATE: 3/15/14	TIME: 1700	RECEIVED BY: <i>FedEx</i>	RECEIVED BY LABORATORY: <i>Cherished Bulk</i>	DATE: 3/15/14	TIME: 1530
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C 1.9	
				CARRIER: <i>FedEx</i>	TRACKING #: 80501623302	
NOTES:						

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	PEB Cont	TOL	TSS	REMARKS
				MS	MSD	DUP							
	PB081A-250mID-140315-N	3/15/14	1015				G	WS	5	✓	✓	✓	

## SGS Analytical Perspectives — Run Log

Project: A6517\_11903\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
7	140328X07	Tray1:03	CS3_140328_PCB_XB	1.00	SIL 13-79-3	LKB, DES	740-668	28-Mar-2014	17:00:58
8	140328X08	Tray1:76	OPR1_11903_PCB-RJ2	1.00	0_11903_OPR001	LKB, DES	662-053	28-Mar-2014	17:55:43
9	140328X09	Tray1:02	SBS_140328_PCB_XC	1.00	SIL 13-42-1	LKB, DES	100-145	28-Mar-2014	18:50:44
10	140328X10	Tray1:77	MB1_11903_PCB_TLX-RJ2	1.00	Method Blank	LKB, DES	680-324	28-Mar-2014	19:45:47
11	140328X11	Tray1:78	A6517_11903_PCB_001-RJ	1.18	PB081_A-2SWMID-140315-N	LKB, DES	544-381	28-Mar-2014	20:40:49

Lab ID: MB1\_11903\_PCB\_TLX-RJ2

ACQ: 28-Mar-2014 19:45:47 LKB

Wt/Vol: 1.00 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB

Client ID: Method Blank A6517

UTP: 31-Mar-2014 07:31 DES

J-level: 10 pg/L Split: 1

Checkcode: 680-324-FDZ

Datafile: 140328X10

RPT: 04-Apr-2014 09:45 ds

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	3.68E+03	1.64
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.68E+03	1.81
PCB-105 233'44'-PeCB	NotFnd		1.0006	-		0.00E+00		1.11	ND	1.94E+03	1.05
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.20	ND	1.94E+03	0.995
PCB-118 23'44'5'-PeCB	34.75	J	1.0006	1.0006	0	5.74E+04	0.65	1.19	2.91	1.94E+03	0.992
PCB-123 23'44'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.21	ND	1.94E+03	0.992
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.05E+03	1.36
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.66E+03	1.45
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.66E+03	0.906
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.66E+03	1.08
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.48E+03	1.02
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.25E+03	1.31
ES PCB-1	11.88		0.7245	0.7247	+0.1	5.02E+07	3.22	1.19	95.7 %	15%	150%
ES PCB-3	14.16		0.8640	0.8641	+0.1	5.27E+07	3.28	1.09	110 %	15%	150%
ES PCB-4	14.41		0.8795	0.8794	-0.1	3.05E+07	1.60	0.52	133 %	25%	150%
ES PCB-15	20.12		1.2271	1.2274	+0.4	6.09E+07	1.58	1.04	133 %	25%	150%
ES PCB-19	17.49		1.0673	1.0672	-0.1	3.02E+07	1.07	0.51	136 %	25%	150%
ES PCB-37	26.43		1.0787	1.0791	+0.6	4.51E+07	1.09	1.66	114 %	25%	150%
ES PCB-54	20.40		0.8328	0.8326	-0.2	3.02E+07	0.77	0.86	147 %	25%	150%
ES PCB-77	32.76		1.3364	1.3372	+1.6	3.94E+07	0.81	1.38	120 %	25%	150%
ES PCB-81	32.28		1.3170	1.3177	+1.4	3.80E+07	0.79	1.37	117 %	25%	150%
ES PCB-104	25.37	V	0.8325	0.8322	-0.5	2.73E+07	1.60	0.80	158 %	25%	150%
ES PCB-105	35.74		1.1720	1.1724	+0.9	3.30E+07	1.61	1.20	128 %	25%	150%
ES PCB-114	35.19		1.1543	1.1547	+0.8	3.34E+07	1.60	1.22	128 %	25%	150%
ES PCB-118	34.73		1.1391	1.1394	+0.6	3.32E+07	1.57	1.16	134 %	25%	150%
ES PCB-123	34.45		1.1299	1.1302	+0.6	3.30E+07	1.58	1.19	130 %	25%	150%
ES PCB-126	38.35		1.2575	1.2580	+1.2	2.90E+07	1.55	1.03	132 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	2.32E+07	1.32	1.11	123 %	25%	150%
ES PCB-155	30.31		0.8114	0.8110	-0.7	3.33E+07	1.28	1.59	125 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0941	+0.5	5.73E+07	1.25	1.60	107 %	25%	150%
ES PCB-167	39.91		1.0677	1.0678	+0.2	3.09E+07	1.29	1.67	111 %	25%	150%
ES PCB-169	43.60		1.1664	1.1667	+0.8	2.81E+07	1.28	1.56	108 %	25%	150%
ES PCB-170	43.12		0.9081	0.9080	-0.3	1.84E+07	1.06	0.95	126 %	25%	150%
ES PCB-180	42.05		0.8856	0.8855	-0.3	2.14E+07	1.08	1.14	126 %	25%	150%
ES PCB-188	35.19		0.7413	0.7409	-0.8	2.34E+07	1.06	0.94	149 %	25%	150%
ES PCB-189	45.73		0.9629	0.9629	0	2.79E+07	1.02	1.58	126 %	25%	150%
ES PCB-202	39.72		0.8366	0.8364	-0.5	2.23E+07	0.93	0.97	138 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	2.12E+07	0.88	1.24	121 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	1.54E+07	0.81	0.83	133 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	2.30E+07	0.80	1.17	139 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	1.99E+07	1.20	1.11	128 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.88		0.9339	0.9339	0	5.46E+07	1.07	1.11	109 %	30%	135%
SS PCB-111	32.77		1.0750	1.0752	+0.4	3.63E+07	1.59	1.03	107 %	30%	135%
SS PCB-178	37.75		1.0100	1.0100	0	1.57E+07	1.13	0.62	108 %	30%	135%
CS PCB-28	22.88		0.9339	0.9339	0	5.46E+07	1.07	1.85	124 %	30%	135%
CS PCB-111	32.77	V	1.0750	1.0752	+0.4	3.63E+07	1.59	1.22	139 %	30%	135%
CS PCB-178	37.75	V	1.0100	1.0100	0	1.57E+07	1.13	0.58	161 %	30%	135%
JS PCB-9	16.39					4.40E+07	1.57				
JS PCB-52	24.50					2.38E+07	0.81				
JS PCB-101	30.48					2.14E+07	1.58				
JS PCB-138	37.37					1.67E+07	1.32				
JS PCB-194	47.49					1.40E+07	0.92				
Totals											
						Mono-CBs	2.77	EMPC	2.77	DL	1.04
						Di-CBs	8.82		8.82		1.99
						Tri-CBs	2.06		6.84		2.23
						Tetra-CBs	12.8		14.8		1.5
						Penta-CBs	12.4		20.9		1.02
						Hexa-CBs	8.51		13.4		1.01
						Hepta-CBs	0		0		1.21
						Octa-CBs	0		0		1.27
						Nona-CBs	0		0		3.37
PCB-1 2-MoCB	11.89	J	1.0011	1.0013	+0.1	2.58E+04	SI	0.95	1.08	3.84E+03	1.05
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.17	ND	5.23E+03	1.22
PCB-3 4-MoCB	14.18	J	1.0010	1.0010	0	4.49E+04	SI	1.01	1.69	3.84E+03	1.03
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00		1.23	ND	5.31E+03	2.05
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	5.31E+03	1.31
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00		0.97	ND	6.65E+03	2.03
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	6.65E+03	1.78
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.03	ND	6.65E+03	1.91
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.03	ND	6.65E+03	1.9
PCB-8 24'-DiCB	NotFnd		1.0506	-		0.00E+00		1.04	ND	6.65E+03	1.89
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	6.65E+03	1.59
PCB-11 33'-DiCB	19.56	J	0.9721	0.9722	+0.1	2.85E+05	1.54	1.06	8.82	6.65E+03	1.85
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.06	ND	6.65E+03	1.86
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.02	ND	6.65E+03	1.92
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00		1.15	ND	5.40E+03	2.56
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1014	-		0.00E+00		1.56	ND	5.40E+03	1.88
PCB-17 22'4-TrCB	NotFnd		1.1243	-		0.00E+00		1.33	ND	5.40E+03	2.21
PCB-27 23'6-TrCB	NotFnd		1.1353	-		0.00E+00		1.82	ND	5.40E+03	1.61
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.74	ND	5.40E+03	1.69
PCB-16 22'3-TrCB	NotFnd		1.1484	-		0.00E+00		0.99	ND	5.40E+03	2.97

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1758	-		0.00E+00		1.93	ND	5.40E+03	1.52
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.25	ND	4.72E+03	1.64
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	4.72E+03	1.62
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8383	-		0.00E+00		1.28	ND	4.72E+03	1.6
PCB-25 23'4-TrCB	NotFnd		0.8456	-		0.00E+00		1.26	ND	4.72E+03	1.62
PCB-31 24'5-TrCB	22.63	J EMPC	0.8562	0.8561	-0.1	5.93E+04	0.77	1.34	1.96	4.72E+03	1.52
PCB-28/20 244'/233'-TrCB	22.90	J EMPC C	0.8670	0.8662	-1.1	7.98E+04	0.85	1.26	2.82	4.72E+03	1.63
PCB-21/33 234/23'4'-TrCB	23.10	J C	0.8738	0.8740	+0.3	5.94E+04	1.05	1.28	2.06	4.72E+03	1.59
PCB-22 234'-TrCB	NotFnd		0.8880	-		0.00E+00		1.20	ND	4.72E+03	1.7
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	4.72E+03	1.55
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	4.72E+03	1.51
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	4.72E+03	1.68
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.19	ND	4.72E+03	1.72
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	4.72E+03	1.9
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	2.25E+03	0.971
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9145	-		0.00E+00		0.92	ND	2.53E+03	1.51
PCB-45 22'36-TeCB	NotFnd		0.9383	-		0.00E+00		0.84	ND	2.53E+03	1.66
PCB-51 22'46'-TeCB	NotFnd		0.9413	-		0.00E+00		0.90	ND	2.53E+03	1.55
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.74	ND	2.53E+03	1.89
PCB-52 22'55'-TeCB	24.52	J	1.0009	1.0008	-0.1	9.12E+04	0.78	0.90	5.34	2.53E+03	1.55
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.19	ND	2.53E+03	1.16
PCB-43 22'35-TeCB	NotFnd		1.0101	-		0.00E+00		0.75	ND	2.53E+03	1.84
PCB-69/49 23'46/22'45'-TeCB	24.96	J EMPC C	1.0181	1.0189	+1.2	4.16E+04	1.10	1.10	2	2.53E+03	1.27
PCB-48 22'45-TeCB	NotFnd		1.0295	-		0.00E+00		0.90	ND	2.53E+03	1.54
PCB-44/47/65 ...-TeCB	25.41	J C	1.0384	1.0373	-1.7	6.73E+04	0.84	0.96	3.67	2.53E+03	1.44
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0496	-		0.00E+00		1.25	ND	2.53E+03	1.11
PCB-42 22'34'-TeCB	NotFnd		1.0563	-		0.00E+00		0.82	ND	2.53E+03	1.7
PCB-41 22'34-TeCB	NotFnd		1.0698	-		0.00E+00		0.76	ND	2.53E+03	1.82
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0737	-		0.00E+00		0.92	ND	2.53E+03	1.52
PCB-64 234'6-TeCB	NotFnd		1.0819	-		0.00E+00		1.33	ND	2.53E+03	1.05
PCB-72 23'55'-TeCB	NotFnd		0.8436	-		0.00E+00		1.26	ND	3.68E+03	1.6
PCB-68 23'45'-TeCB	NotFnd		0.8515	-		0.00E+00		1.35	ND	3.68E+03	1.5
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.22	ND	3.68E+03	1.66
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.27	ND	3.68E+03	1.58
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.33	ND	3.68E+03	1.52
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.40	ND	3.68E+03	1.44
PCB-61/70/74/76 ...-TeCB	28.73	J C	0.8902	0.8901	-0.2	9.11E+04	0.79	1.25	3.84	3.68E+03	1.62
PCB-66 23'44'-TeCB	NotFnd		0.8989	-		0.00E+00		1.18	ND	3.68E+03	1.71
PCB-55 233'4-TeCB	NotFnd		0.9034	-		0.00E+00		1.18	ND	3.68E+03	1.71
PCB-56 233'4'-TeCB	NotFnd		0.9169	-		0.00E+00		1.17	ND	3.68E+03	1.73
PCB-60 2344'-TeCB	NotFnd		0.9229	-		0.00E+00		1.20	ND	3.68E+03	1.68
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	3.68E+03	1.47
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.37	ND	3.68E+03	1.47
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	3.68E+03	1.76
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.57E+03	0.755
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.18	ND	1.57E+03	0.915
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.93	ND	1.94E+03	1.29
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.79	ND	1.94E+03	1.52

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96	J	0.9176	0.9174	-0.3	6.08E+04	0.65	0.86	4.27	1.94E+03	1.39
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.86	ND	1.94E+03	1.4
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		1.00	ND	1.94E+03	1.2
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.74	ND	1.94E+03	1.63
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	1.94E+03	1.55
PCB-91 22'34'6-PeCB	NotFnd		0.9424	-		0.00E+00		0.92	ND	1.94E+03	1.31
PCB-84 22'33'6-PeCB	NotFnd		0.9487	-		0.00E+00		0.71	ND	1.94E+03	1.68
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.76	ND	1.94E+03	1.58
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	1.94E+03	1
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.81	ND	1.94E+03	1.48
PCB-113/90/101 ...-PeCB	30.50	J EMPC C	0.9999	1.0007	+1.5	6.61E+04	0.51	0.96	4.17	1.94E+03	1.25
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.70	ND	1.94E+03	1.73
PCB-99 22'44'5-PeCB	31.00	J EMPC	1.0173	1.0171	-0.4	2.47E+04	0.81	0.90	1.67	1.94E+03	1.34
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	1.94E+03	1.03
PCB-108/119/86/97/125...-PeCB	31.47	J EMPC C	1.0320	1.0325	+0.9	4.31E+04	0.72	0.98	2.67	1.94E+03	1.23
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.18	ND	1.94E+03	1.02
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0525	-		0.00E+00		0.88	ND	1.94E+03	1.37
PCB-110 233'4'6-PeCB	32.20	J	1.0561	1.0563	+0.4	9.40E+04	0.55	1.10	5.2	1.94E+03	1.1
PCB-115 2344'6-PeCB	NotFnd		1.0590	-		0.00E+00		1.16	ND	1.94E+03	1.04
PCB-82 22'33'4-PeCB	NotFnd		1.0655	-		0.00E+00		0.69	ND	1.94E+03	1.75
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	1.94E+03	0.996
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	1.94E+03	0.982
PCB-107/124 ...-PeCB	NotFnd	C	0.9916	-		0.00E+00		1.11	ND	1.94E+03	1.09
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.24	ND	1.94E+03	0.97
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		1.11	ND	1.94E+03	1.08
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.03	ND	1.94E+03	1.16
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	1.94E+03	1.05
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.36E+03	0.61
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.14	ND	1.36E+03	0.675
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.36E+03	0.665
PCB-136 22'33'66'-HxCB	NotFnd		1.0207	-		0.00E+00		1.06	ND	1.36E+03	0.726
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.36E+03	0.703
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.36E+03	1.02
PCB-151/135 ...-HxCB	33.00	J C	1.0886	1.0887	+0.2	2.54E+04	1.32	1.09	2	1.36E+03	1.07
PCB-154 22'44'56'-HxCB	NotFnd		1.0954	-		0.00E+00		1.29	ND	1.36E+03	0.913
PCB-144 22'345'6-HxCB	NotFnd		1.1041	-		0.00E+00		1.14	ND	1.36E+03	1.03
PCB-147/149 ...-HxCB	33.78	J C	1.1141	1.1144	+0.6	4.59E+04	1.24	1.11	3.55	1.36E+03	1.05
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.93	ND	1.36E+03	1.26
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.02	ND	1.36E+03	1.15
PCB-139/140 ...-HxCB	NotFnd	C	1.1312	-		0.00E+00		1.13	ND	1.36E+03	1.04
PCB-131 22'33'46-HxCB	NotFnd		1.1369	-		0.00E+00		0.98	ND	1.36E+03	1.2
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.36E+03	1.24
PCB-132 22'33'46'-HxCB	34.84	J EMPC	1.1494	1.1495	+0.2	2.31E+04	0.95	0.99	2.01	1.36E+03	1.19
PCB-133 22'33'55'-HxCB	NotFnd		1.1626	-		0.00E+00		1.05	ND	1.36E+03	1.12
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.36E+03	0.867
PCB-146 22'34'55'-HxCB	NotFnd		0.9582	-		0.00E+00		1.15	ND	1.36E+03	1.02
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.36E+03	0.796
PCB-153/168 ...-HxCB	36.34	J EMPC C	0.9728	0.9723	-1.1	4.70E+04	1.44	1.42	2.85	1.36E+03	0.829

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9766	-		0.00E+00		1.04	ND	1.36E+03	1.13
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.92	ND	1.36E+03	1.28
PCB-137 22'344'5'-HxCB	NotFnd		0.9911	-		0.00E+00		1.11	ND	1.36E+03	1.05
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9933	-		0.00E+00		1.43	ND	1.36E+03	0.822
PCB-163/138/129 ...-HxCB	37.40	J C	1.0011	1.0007	-0.9	3.94E+04	1.41	1.15	2.96	1.36E+03	1.02
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.36E+03	0.845
PCB-158 233'44'6'-HxCB	NotFnd		1.0096	-		0.00E+00		1.53	ND	1.36E+03	0.765
PCB-128/166 ...-HxCB	NotFnd	C	0.9641	-		0.00E+00		0.90	ND	1.66E+03	1.17
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.10	ND	1.66E+03	0.956
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.10	ND	1.66E+03	0.954
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.32E+03	0.882
PCB-179 22'33'566'-HpCB	NotFnd		1.0086	-		0.00E+00		1.13	ND	1.32E+03	0.994
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.06	ND	1.32E+03	1.06
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.15	ND	1.32E+03	0.978
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.32E+03	1.05
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0733	-		0.00E+00		0.77	ND	1.32E+03	1.45
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.07	ND	1.56E+03	1.4
PCB-187 22'34'55'6'-HpCB	NotFnd		1.0952	-		0.00E+00		1.15	ND	1.56E+03	1.31
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.56E+03	1.28
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1101	-		0.00E+00		1.20	ND	1.56E+03	1.26
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.10	ND	1.56E+03	1.36
PCB-174 22'33'456'-HpCB	NotFnd		1.1156	-		0.00E+00		0.94	ND	1.56E+03	1.6
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1262	-		0.00E+00		0.92	ND	1.56E+03	1.63
PCB-181 22'344'56'-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.56E+03	1.4
PCB-171/173 ...-HpCB	NotFnd	C	1.1413	-		0.00E+00		0.94	ND	1.56E+03	1.6
PCB-172 22'33'455'-HpCB	NotFnd		0.9080	-		0.00E+00		0.98	ND	1.56E+03	1.54
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.56E+03	1.17
PCB-180/193 ...-HpCB	NotFnd	C	0.9194	-		0.00E+00		1.24	ND	1.56E+03	1.21
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.38	ND	1.56E+03	1.09
PCB-170 22'33'44'5'-HpCB	NotFnd		0.9434	-		0.00E+00		1.13	ND	1.56E+03	1.52
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.60	ND	1.56E+03	1.08
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.46E+03	1.24
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.14	ND	1.46E+03	1.14
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.46E+03	1.21
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0396	-		0.00E+00		1.10	ND	1.46E+03	1.18
PCB-200 22'33'4566'-OcCB	NotFnd		1.0418	-		0.00E+00		1.08	ND	1.46E+03	1.2
PCB-198/199 ...-OcCB	NotFnd	C	1.1001	-		0.00E+00		0.74	ND	1.46E+03	1.75
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1146	-		0.00E+00		0.80	ND	1.46E+03	1.64
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1188	-		0.00E+00		0.83	ND	1.46E+03	1.56
PCB-195 22'33'44'56-OcCB	NotFnd		0.9516	-		0.00E+00		0.72	ND	1.44E+03	1.91
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.81	ND	1.44E+03	1.71
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.44E+03	1.3
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.21E+03	2.71
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.18	ND	3.21E+03	2.59
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.21E+03	4.03



SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

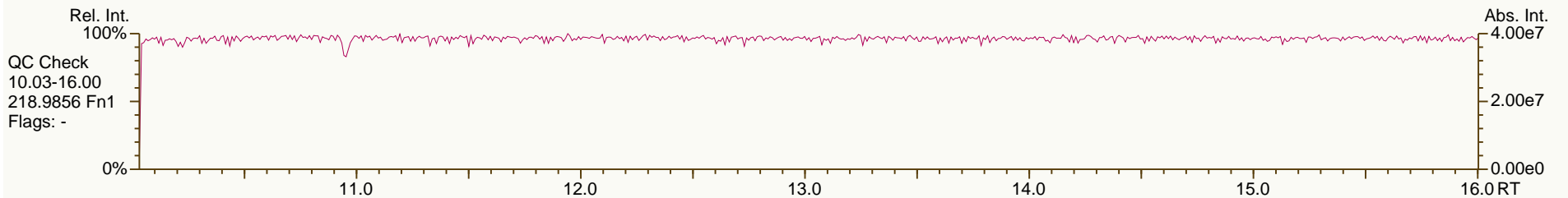
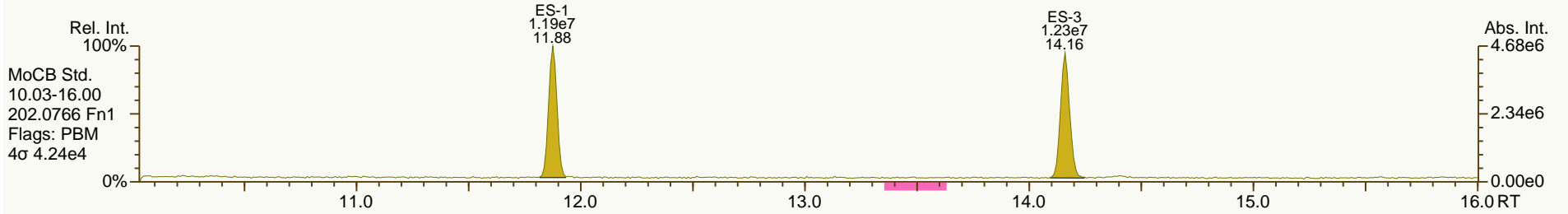
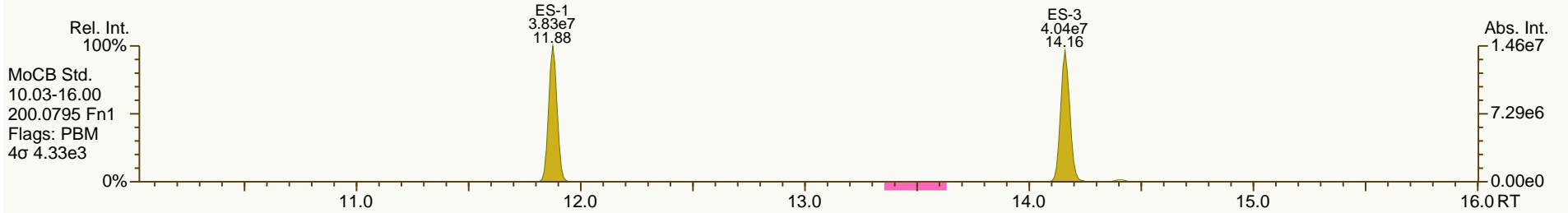
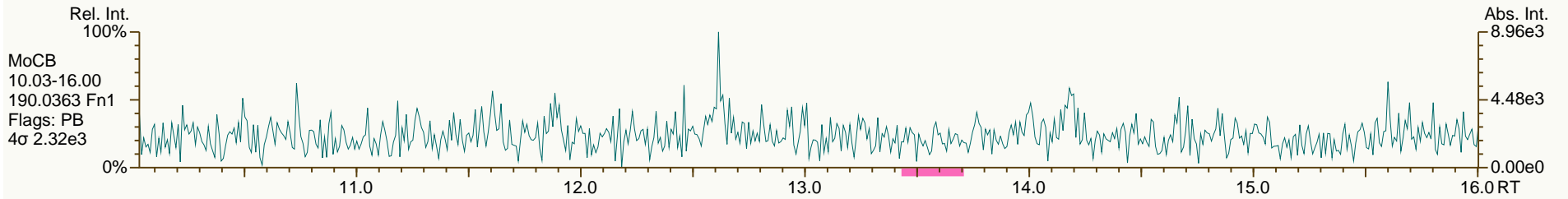
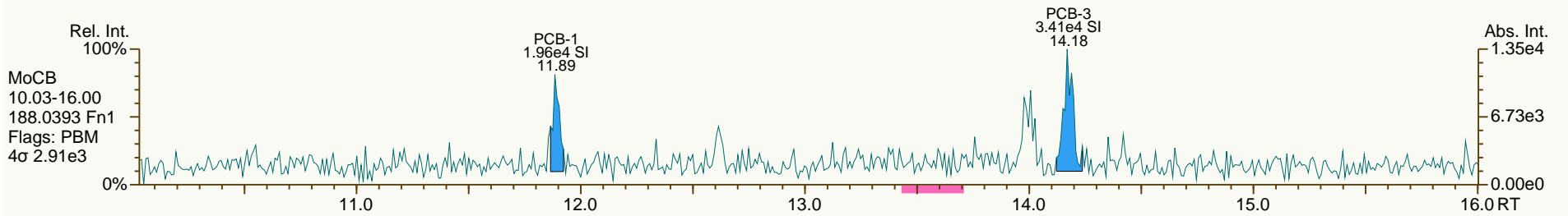
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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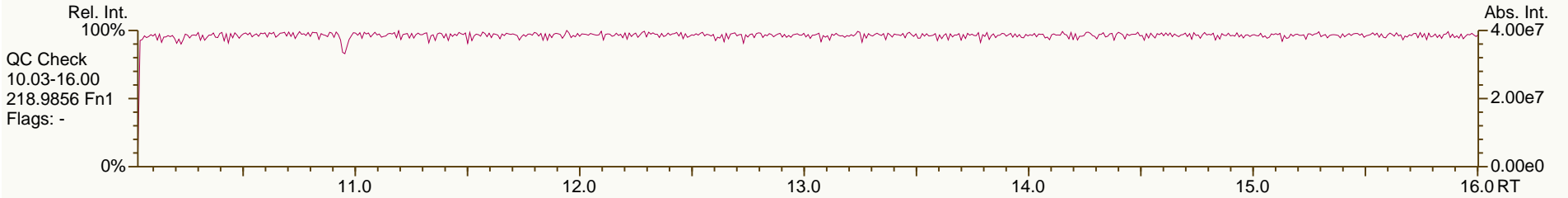
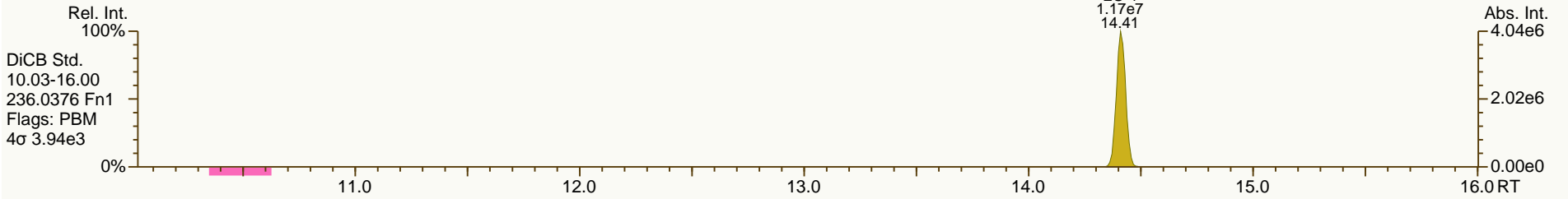
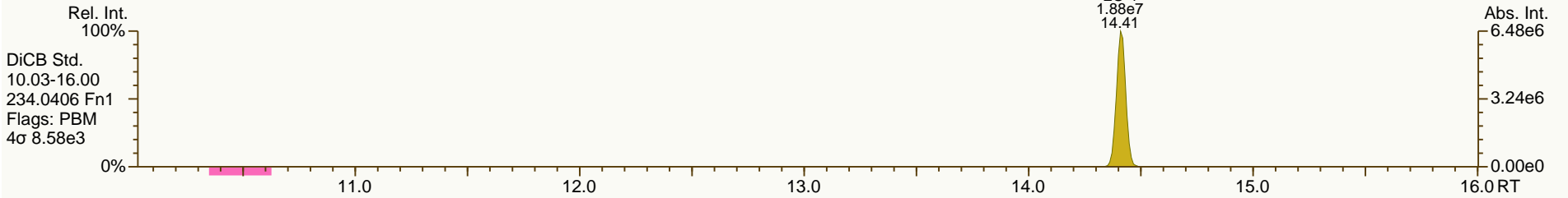
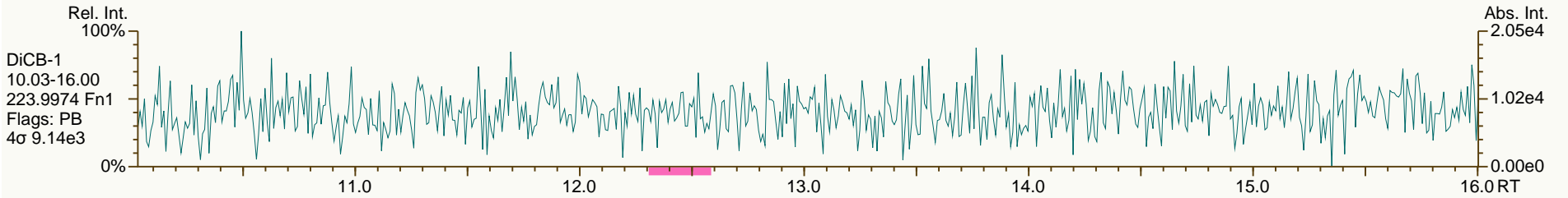
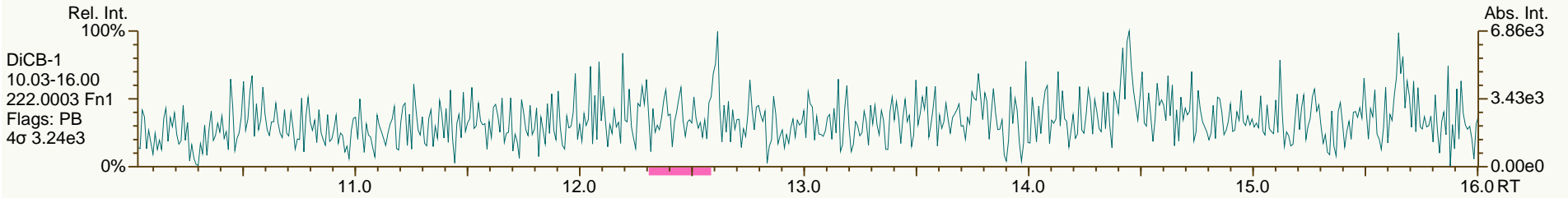
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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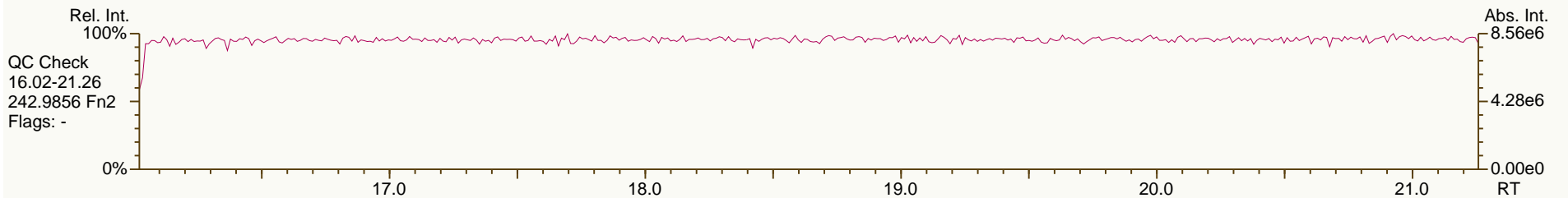
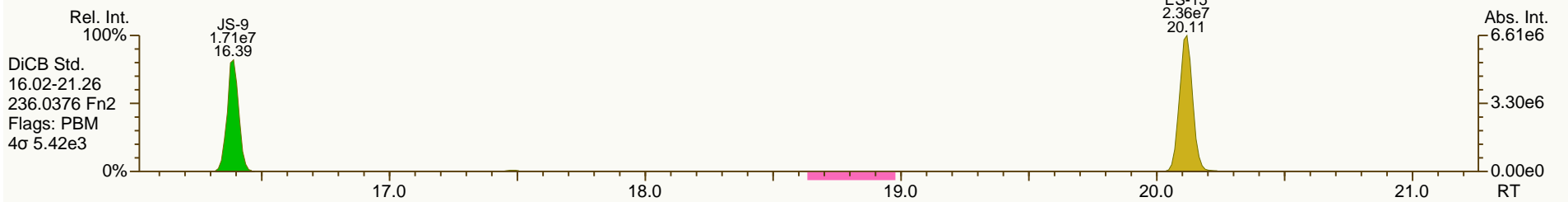
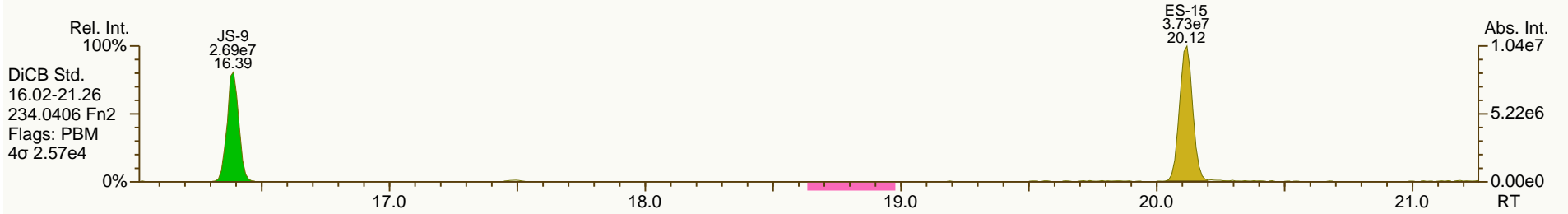
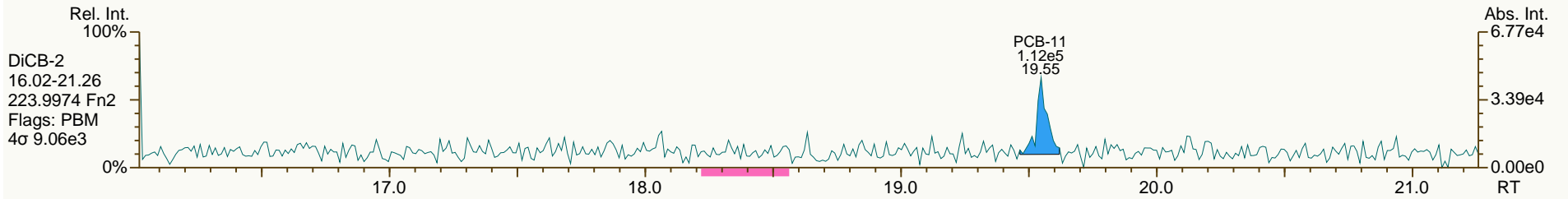
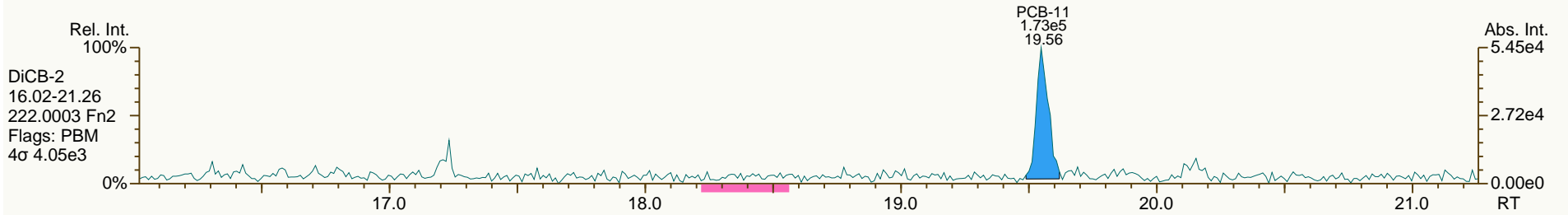
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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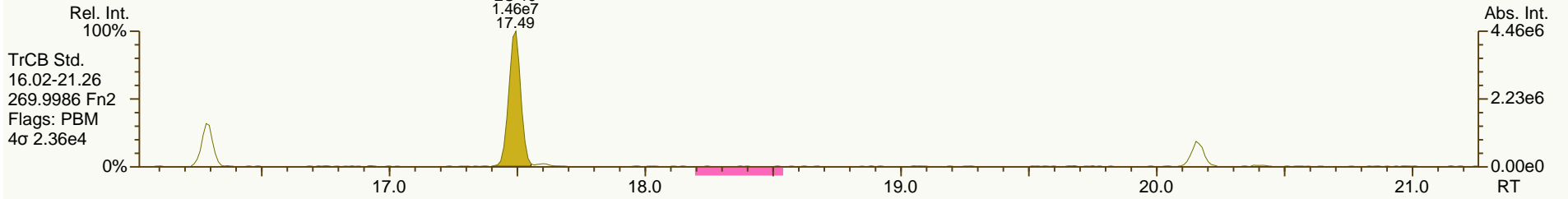
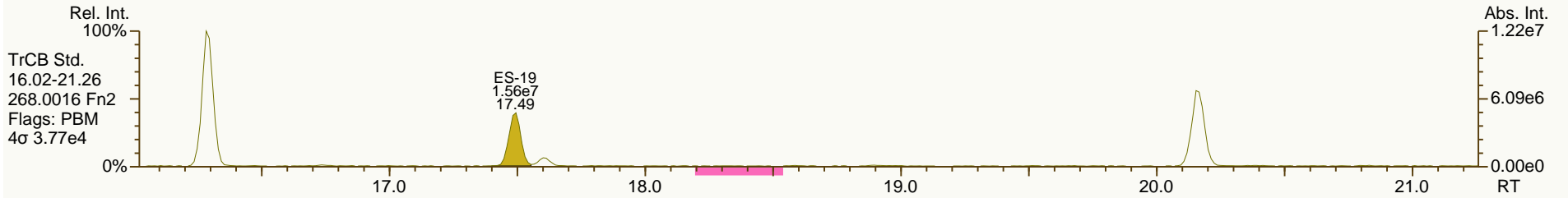
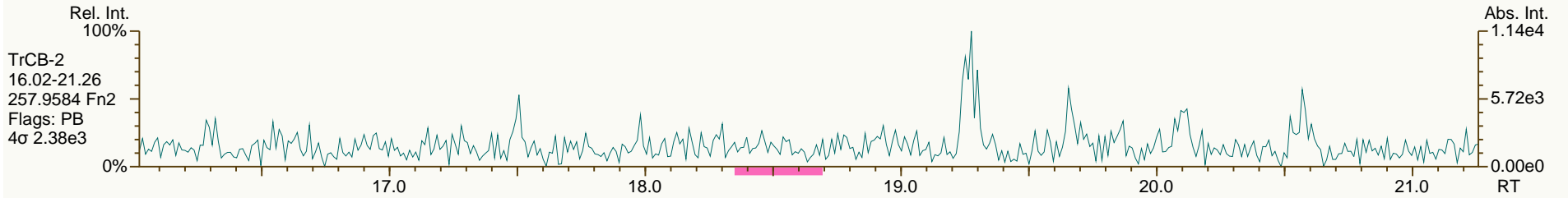
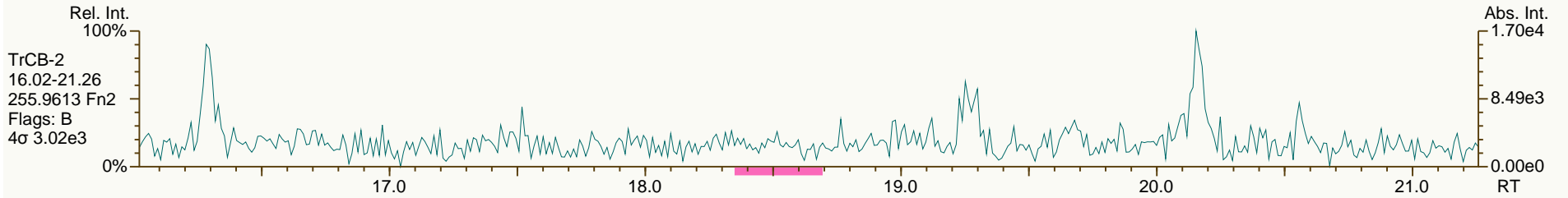
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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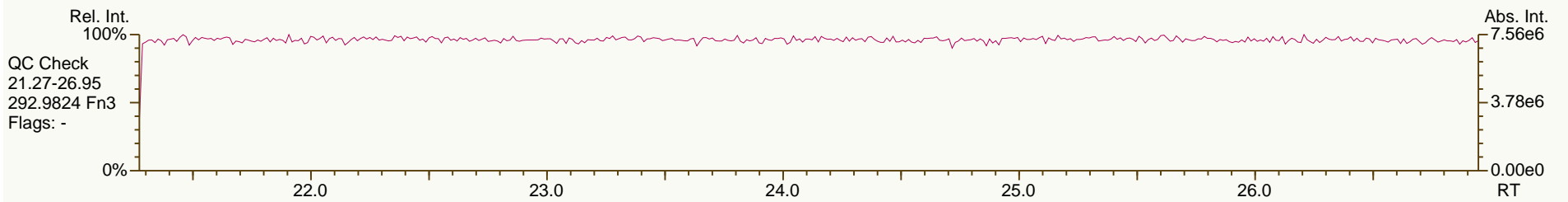
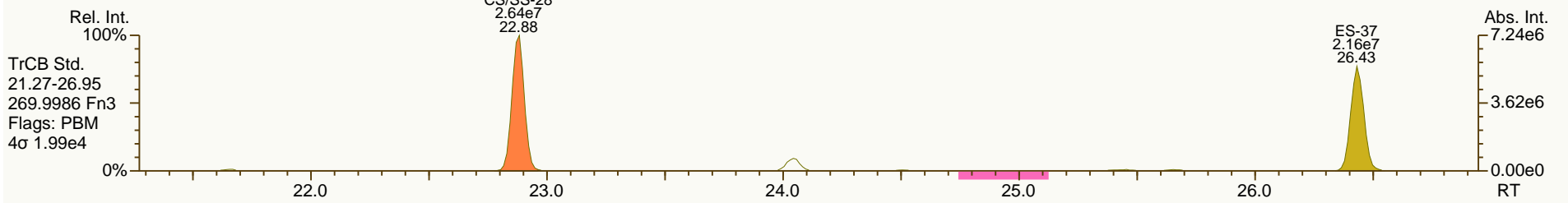
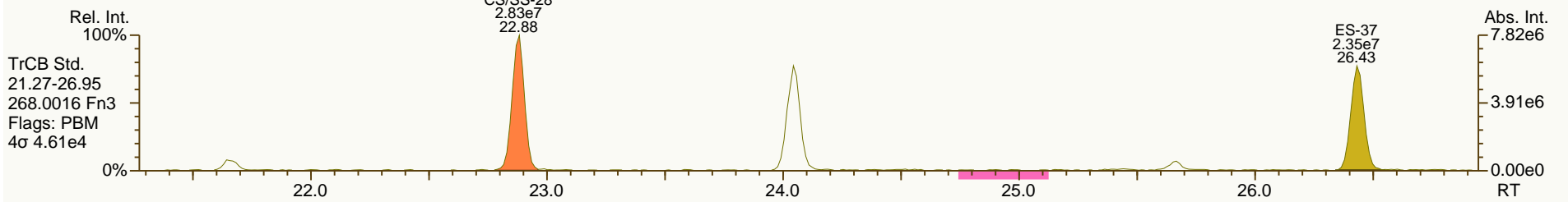
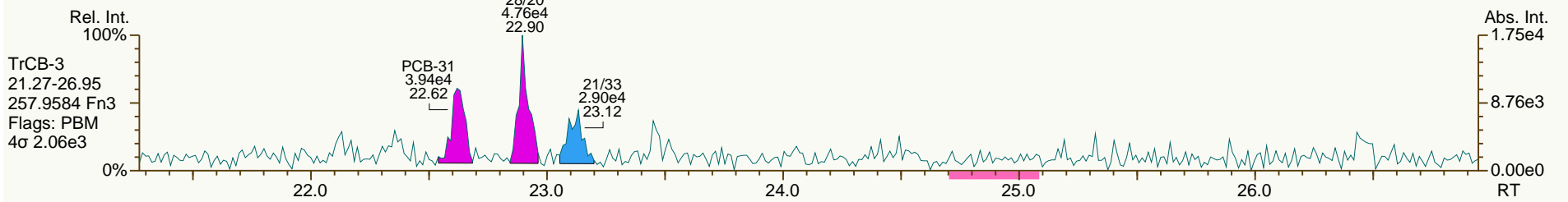
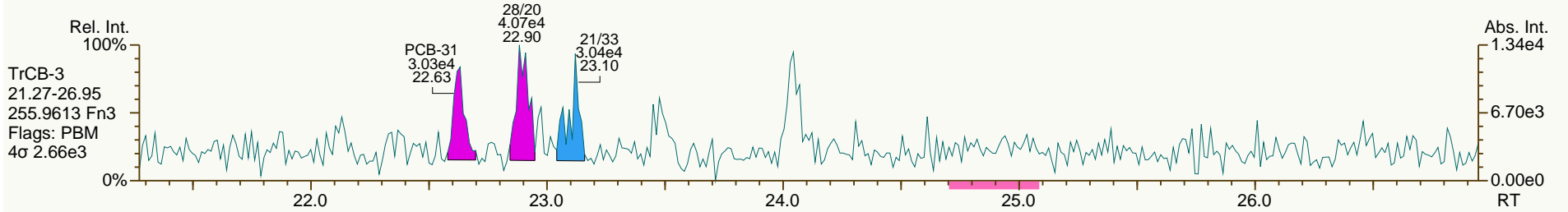
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

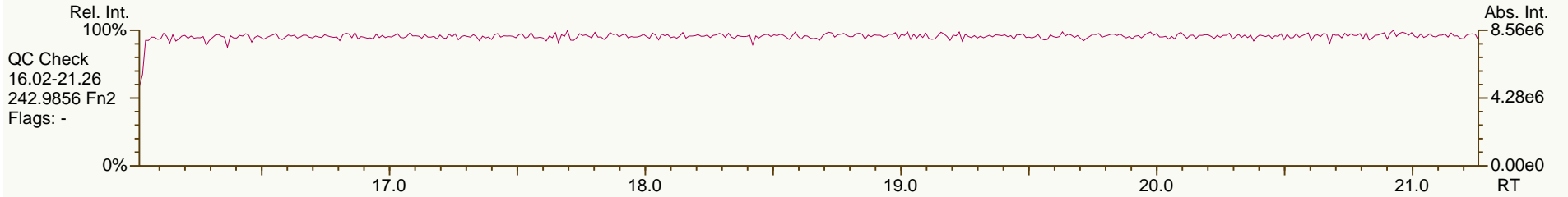
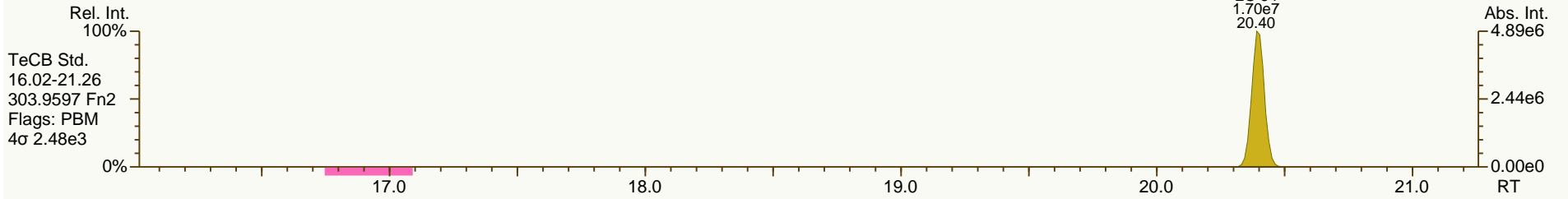
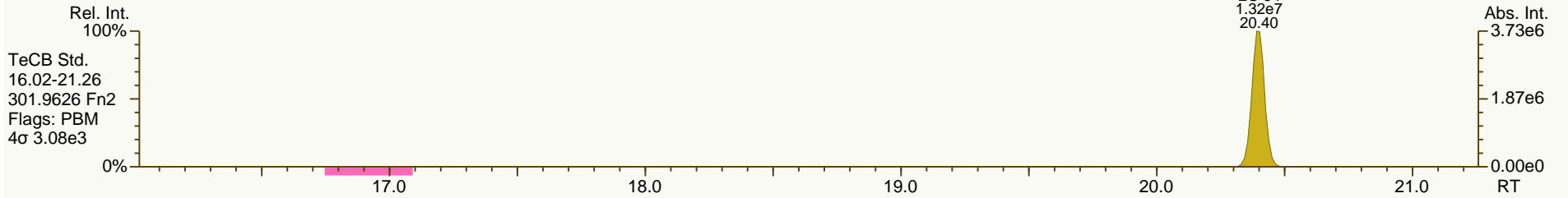
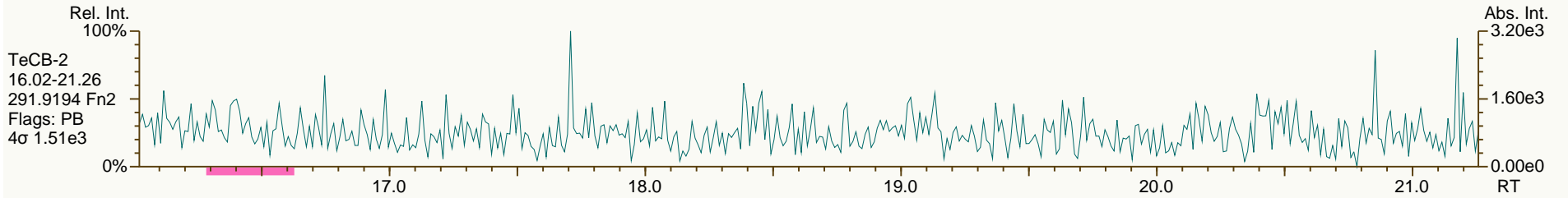
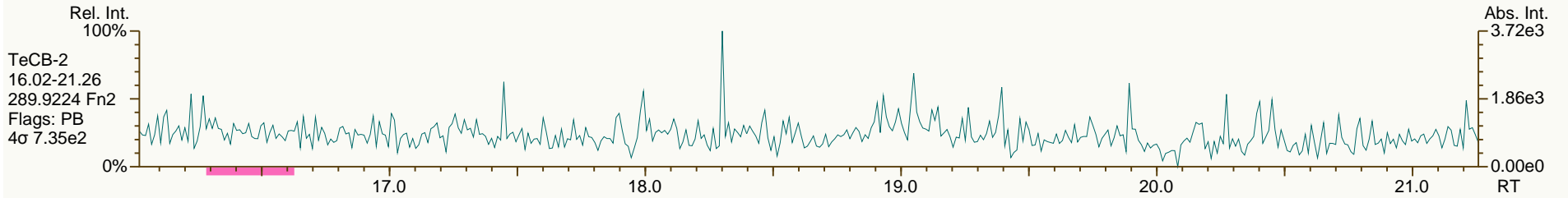
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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Sample ID: Method Blank  
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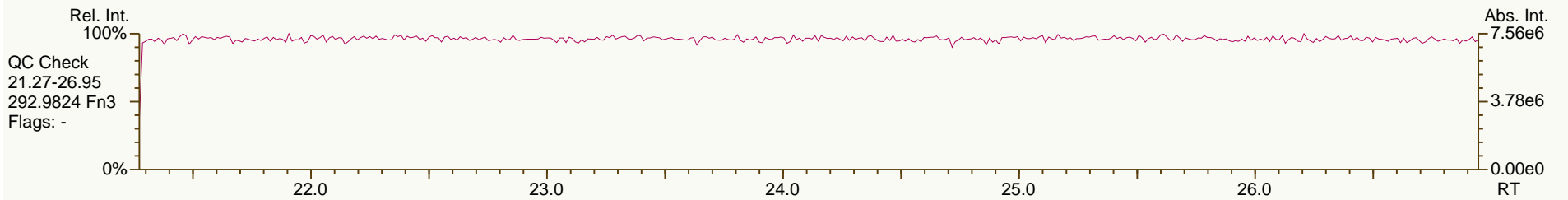
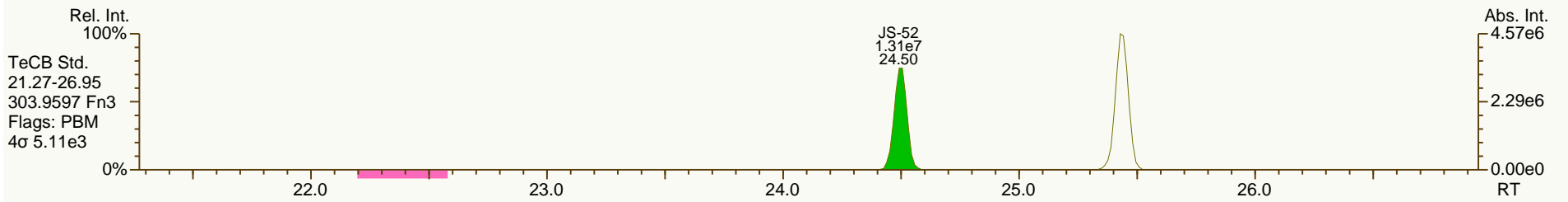
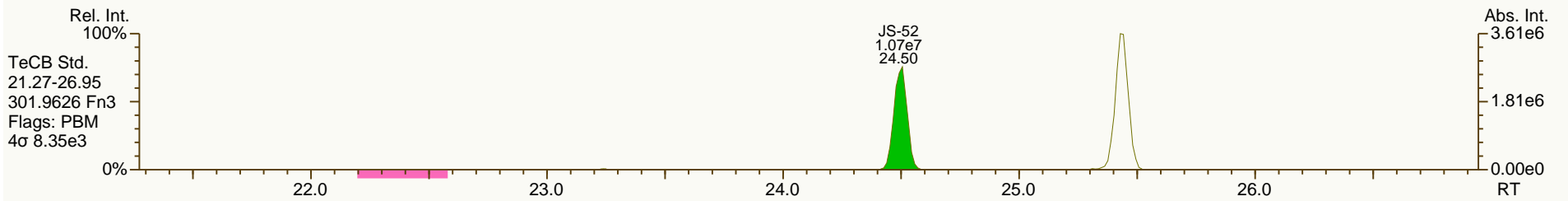
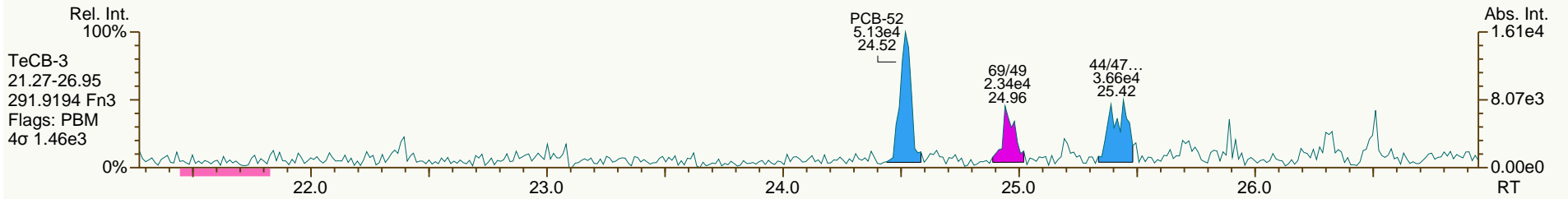
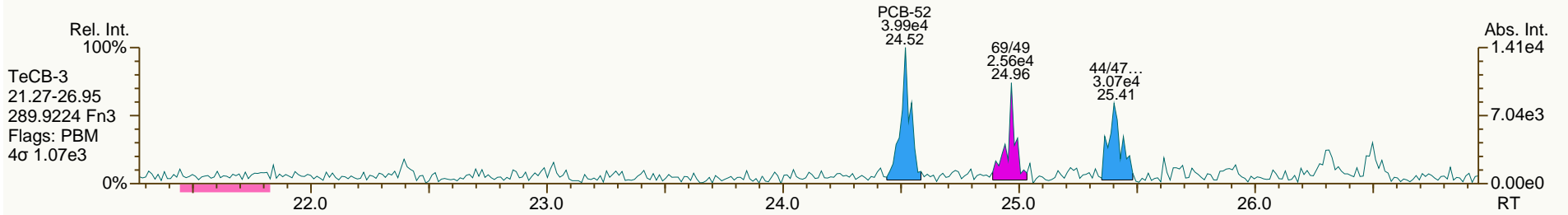
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Sample ID: Method Blank  
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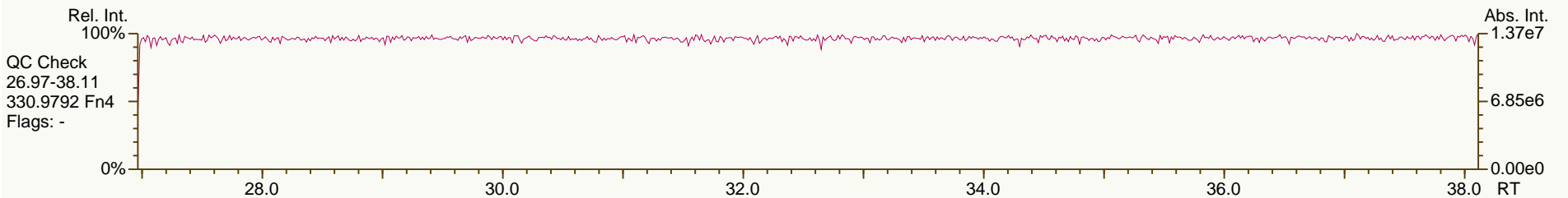
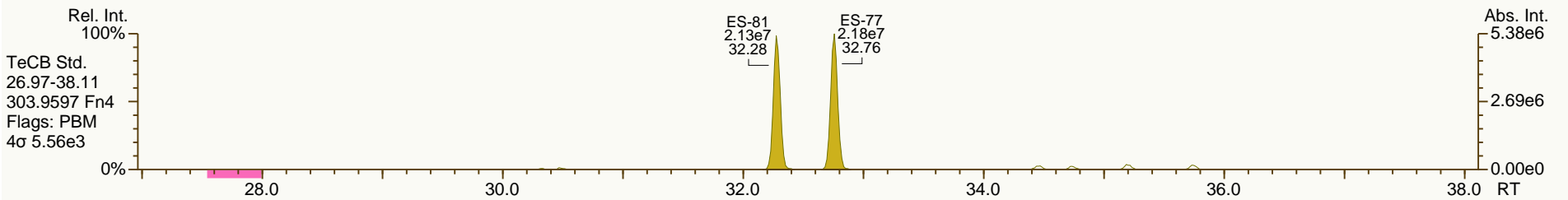
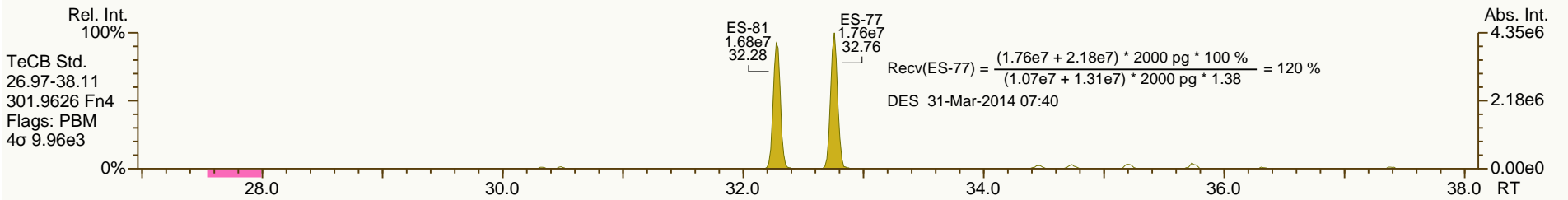
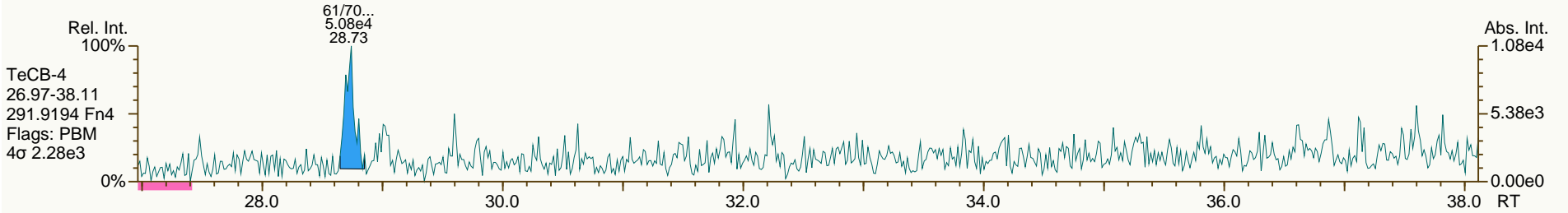
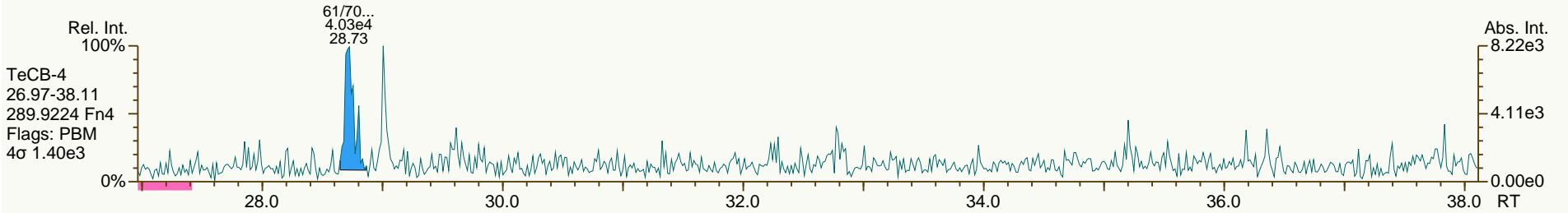




SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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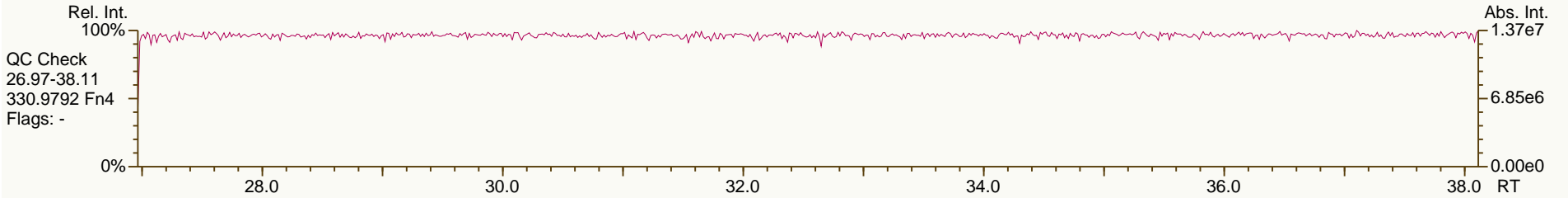
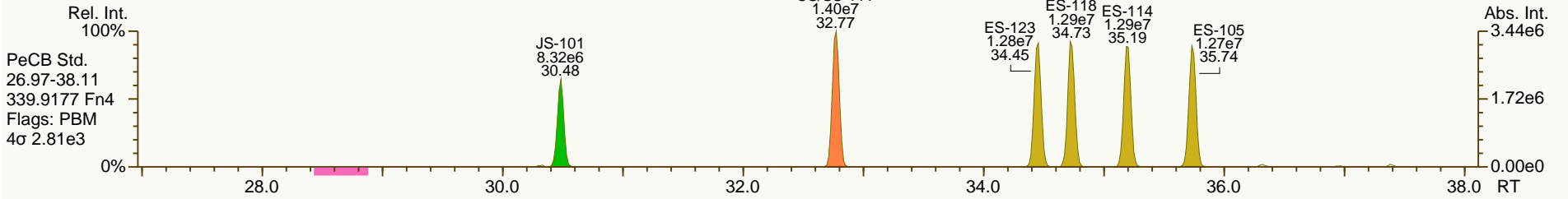
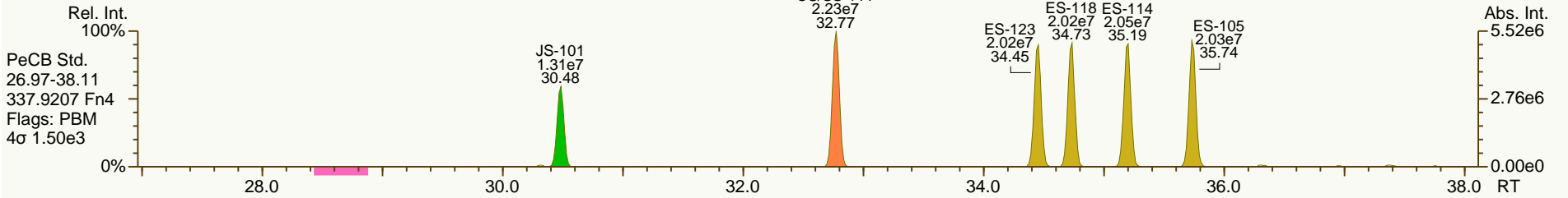
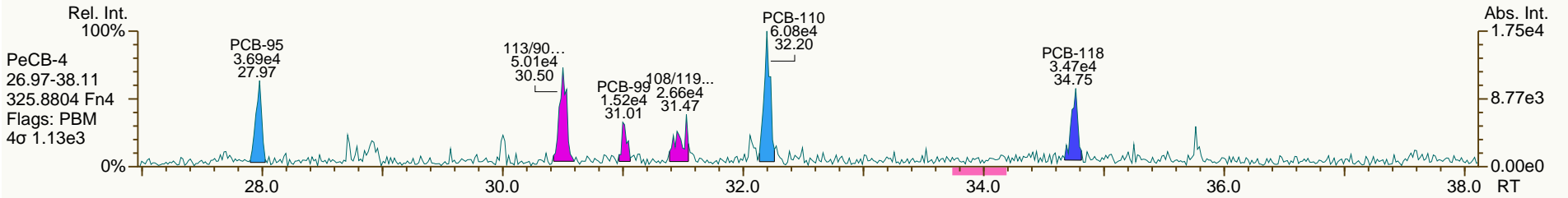
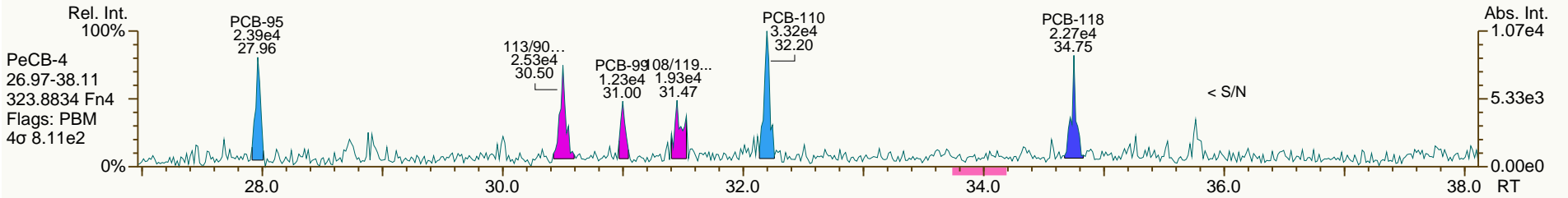
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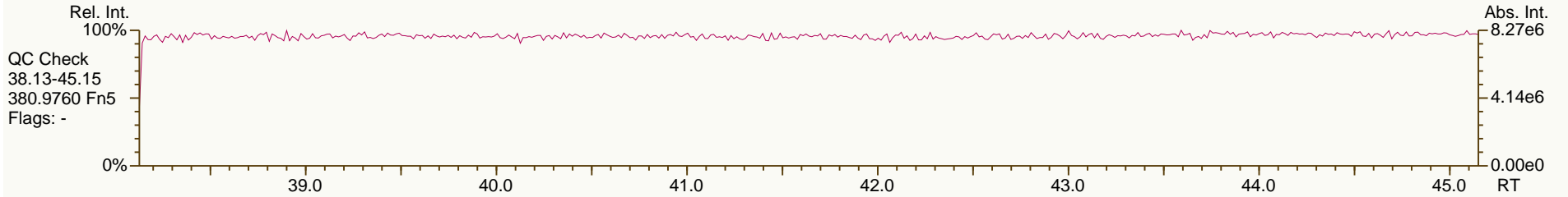
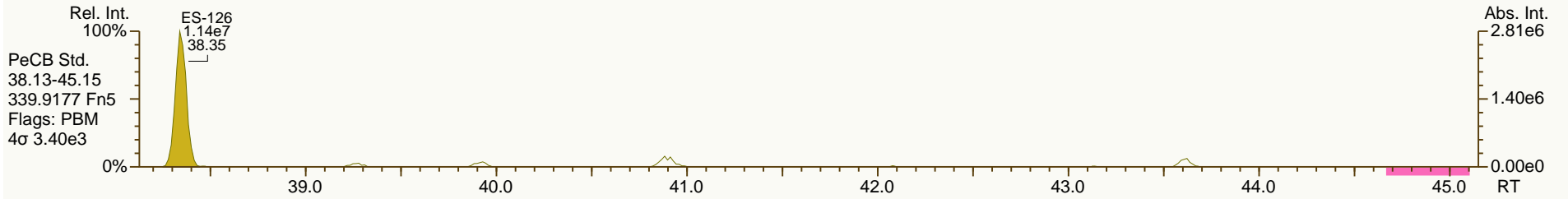
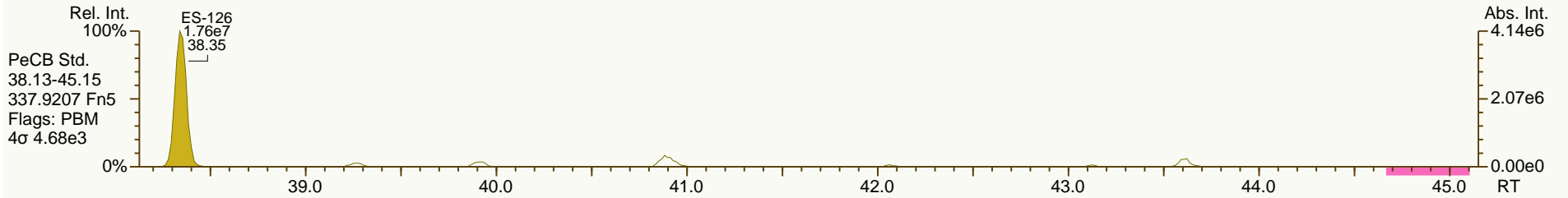
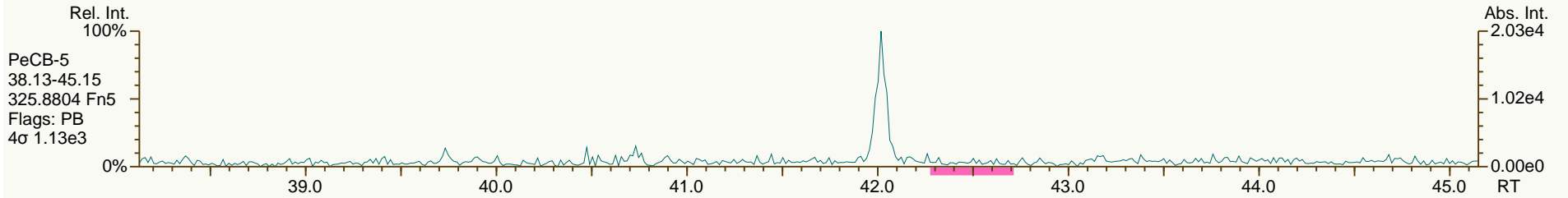
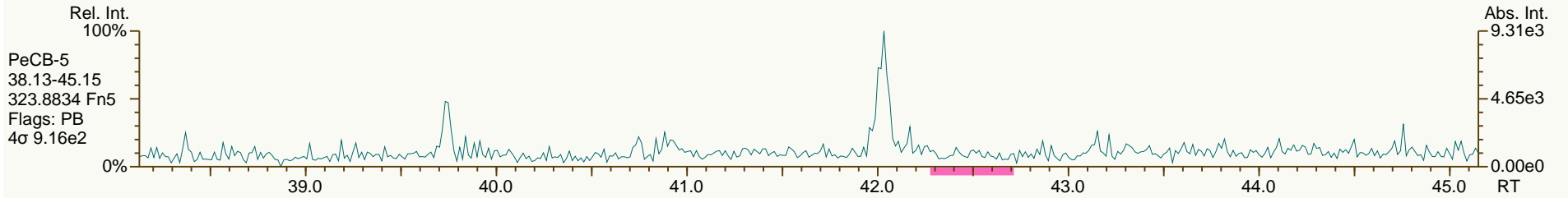
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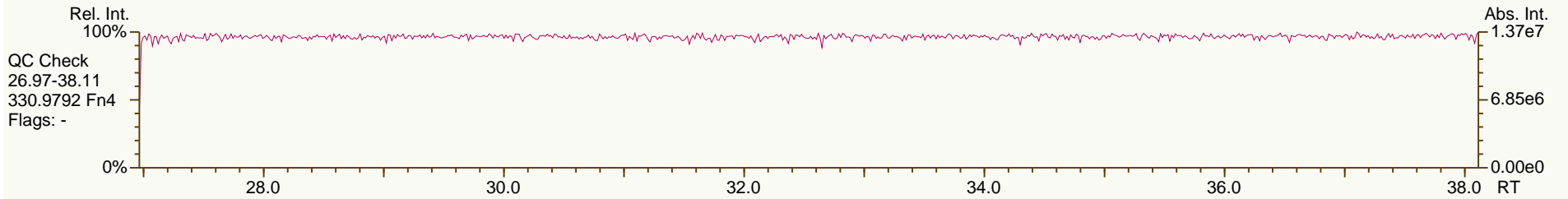
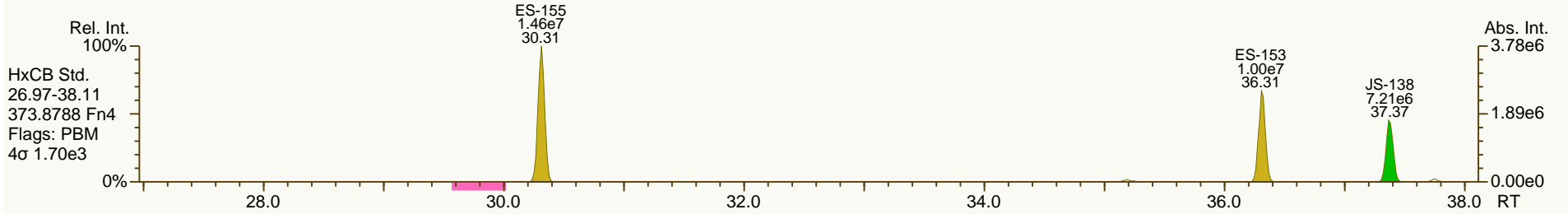
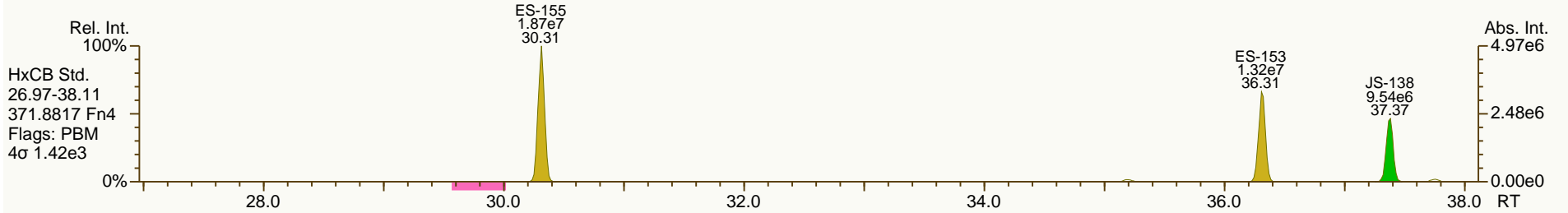
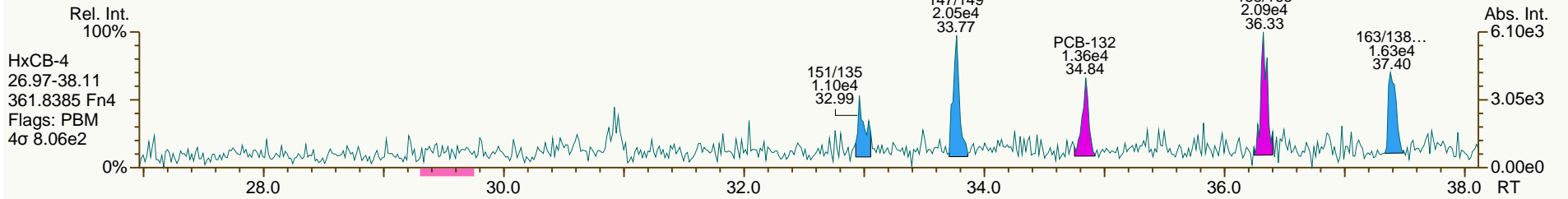
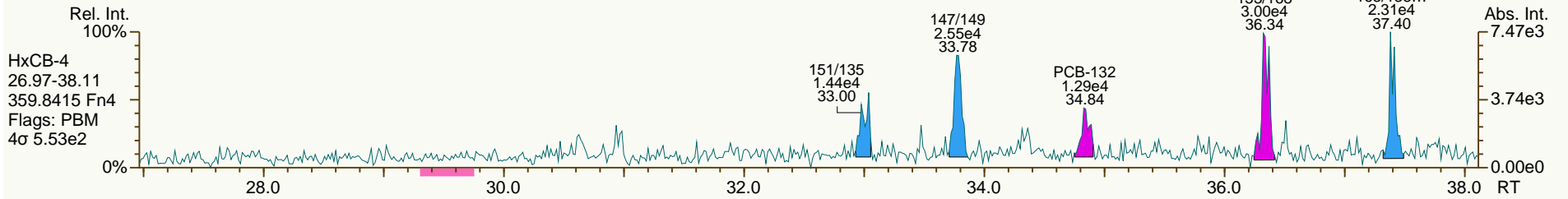
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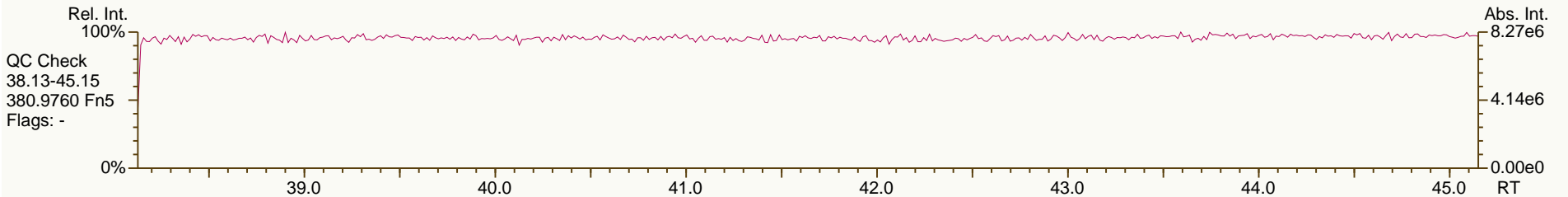
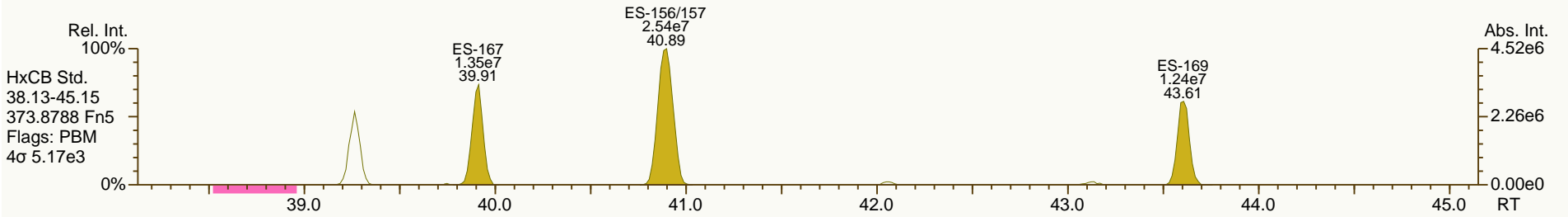
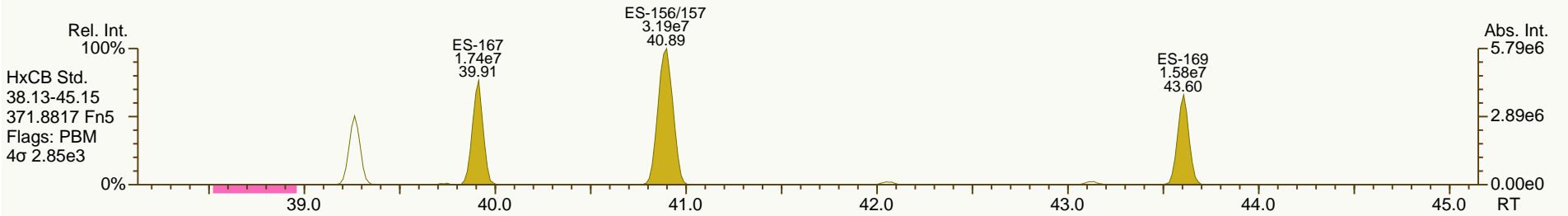
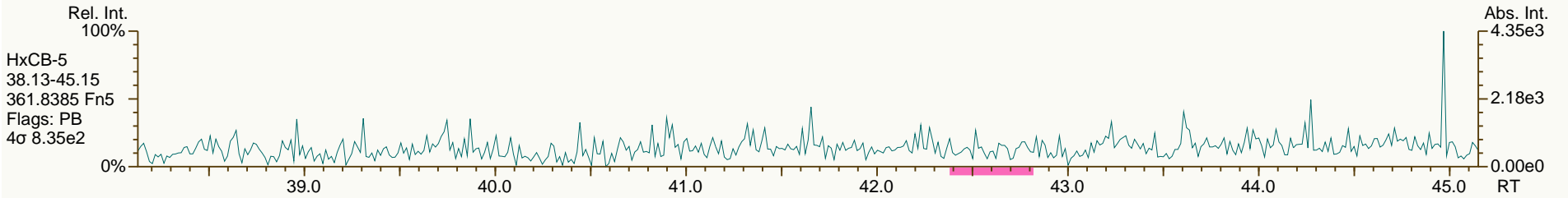
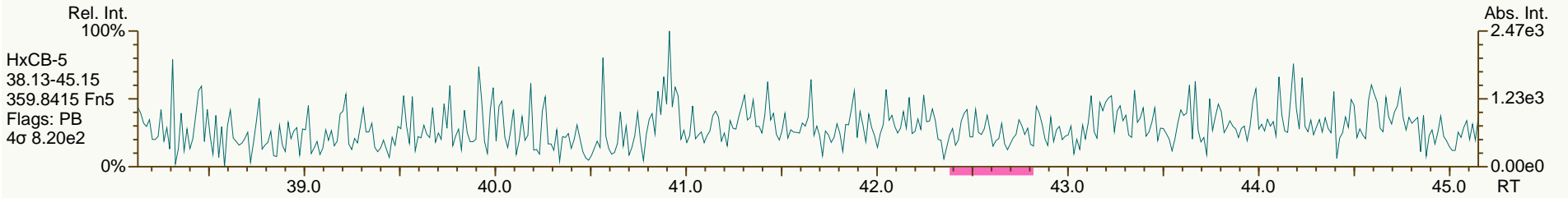
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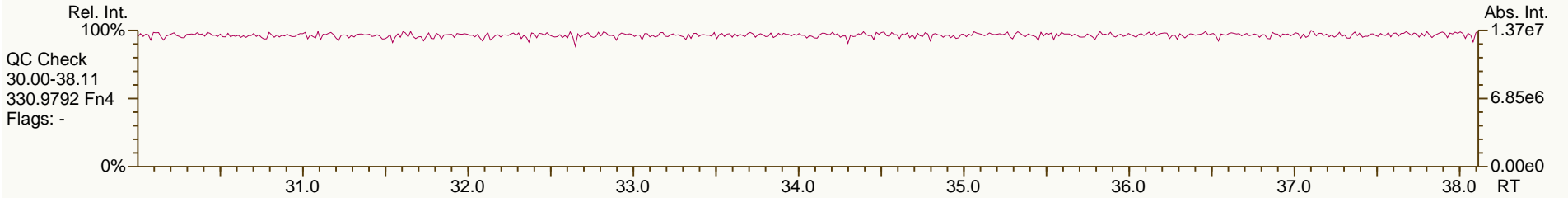
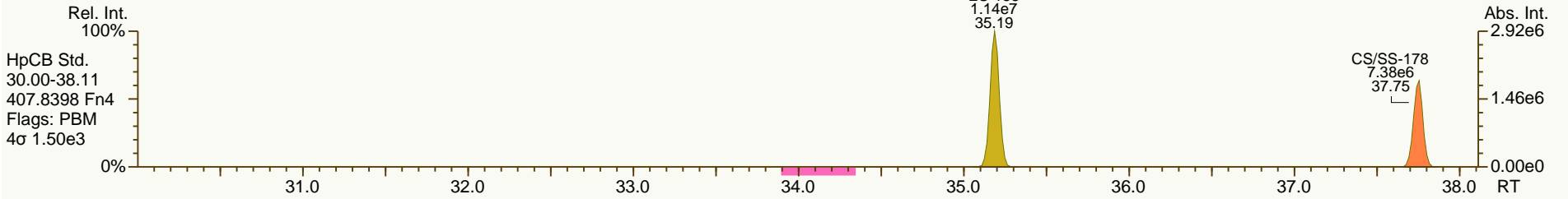
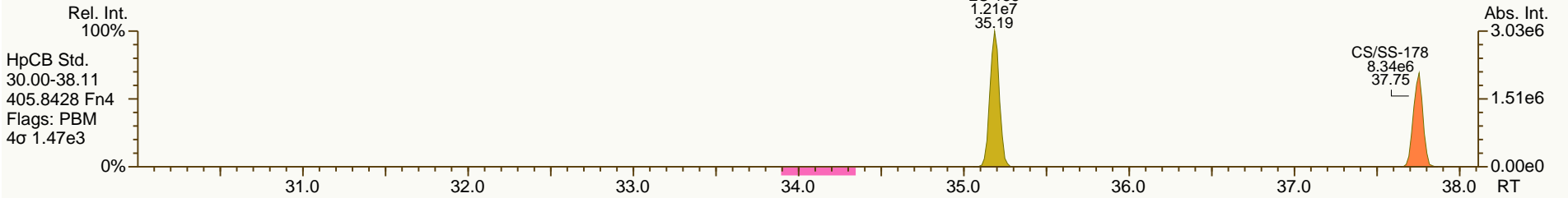
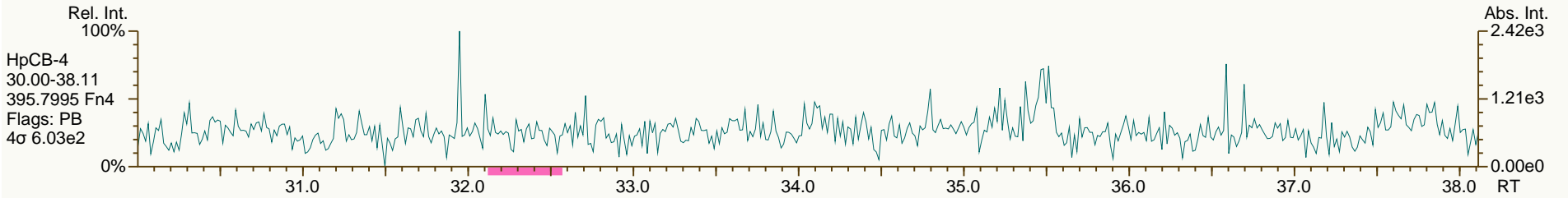
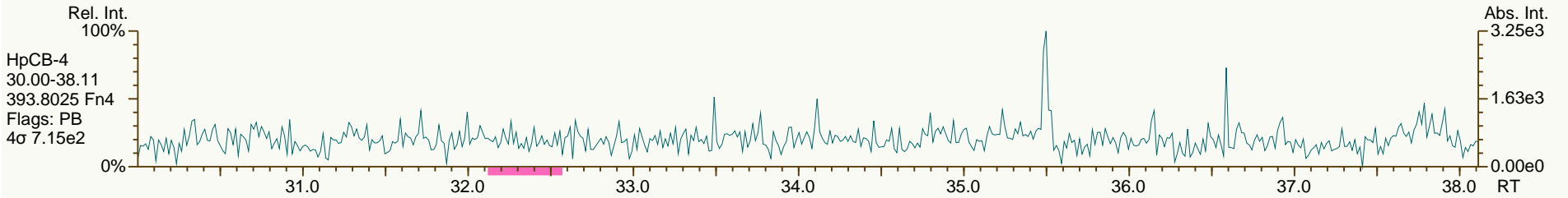
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Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

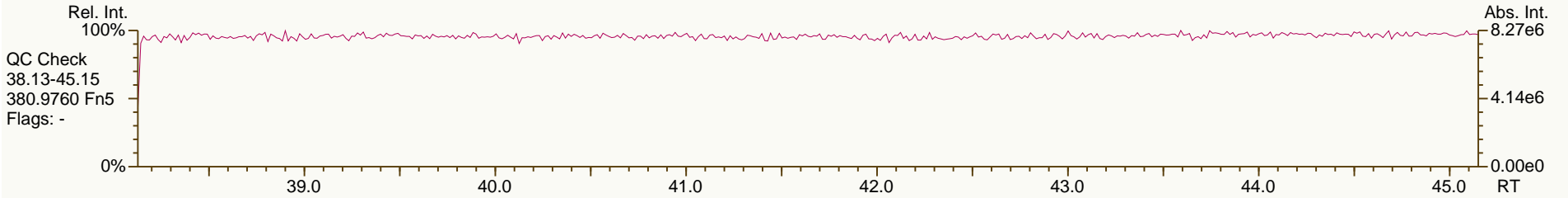
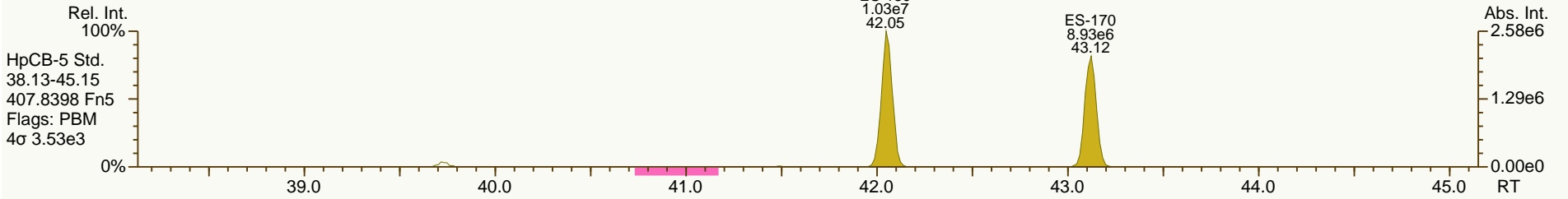
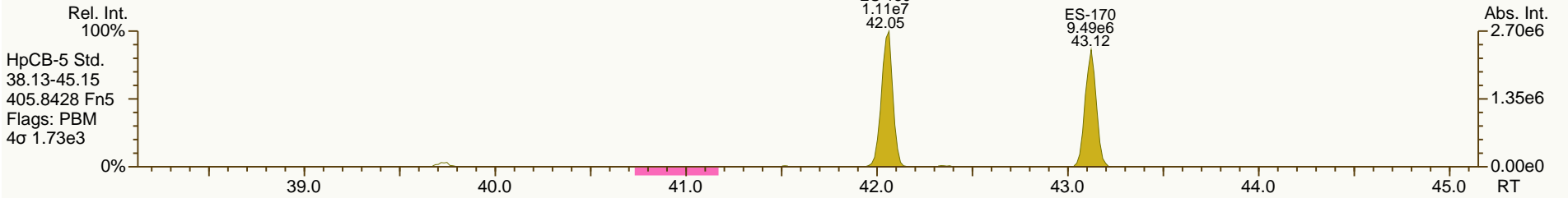
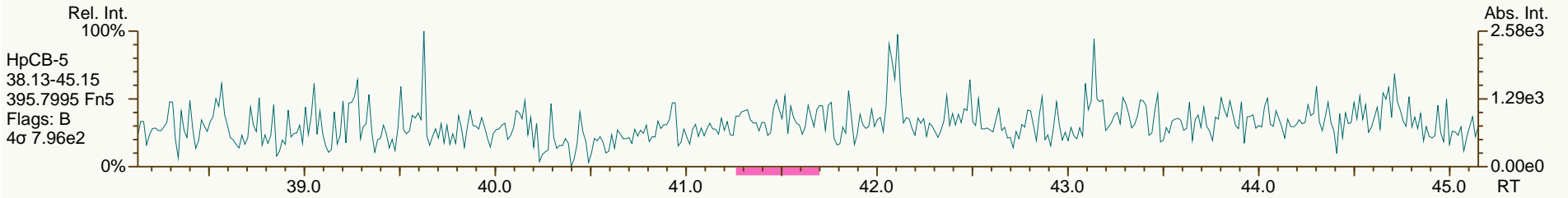
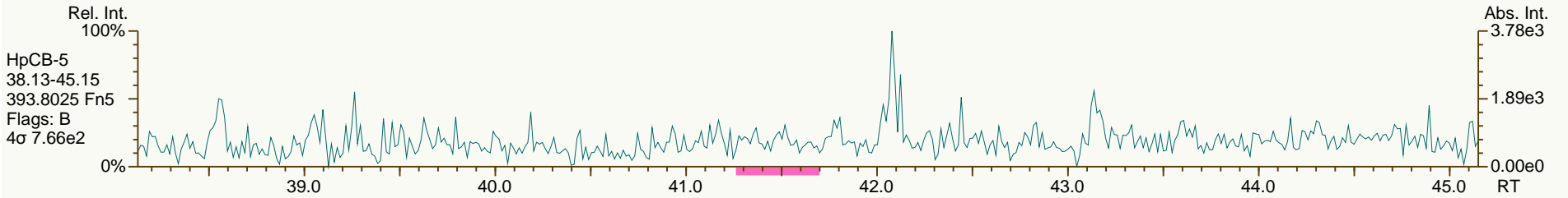
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

Acq: 28-Mar-2014 19:45:47  
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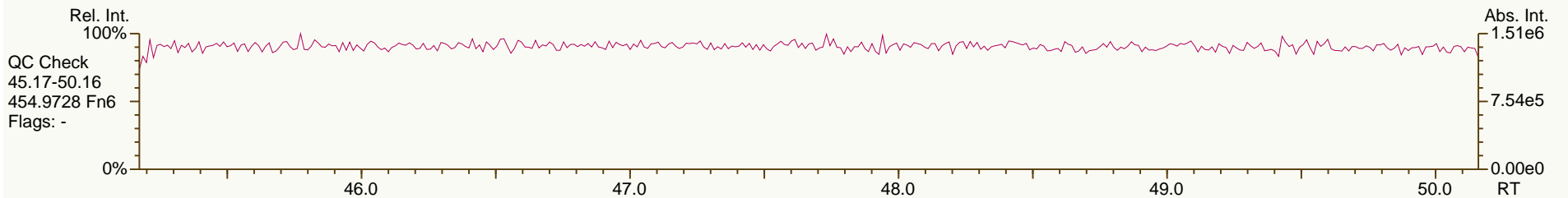
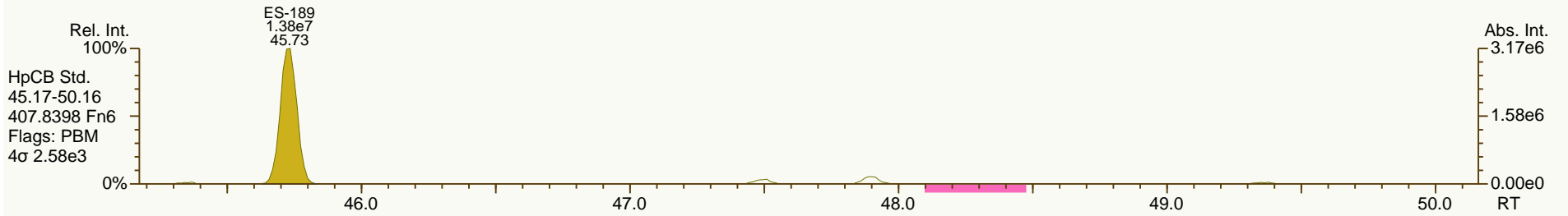
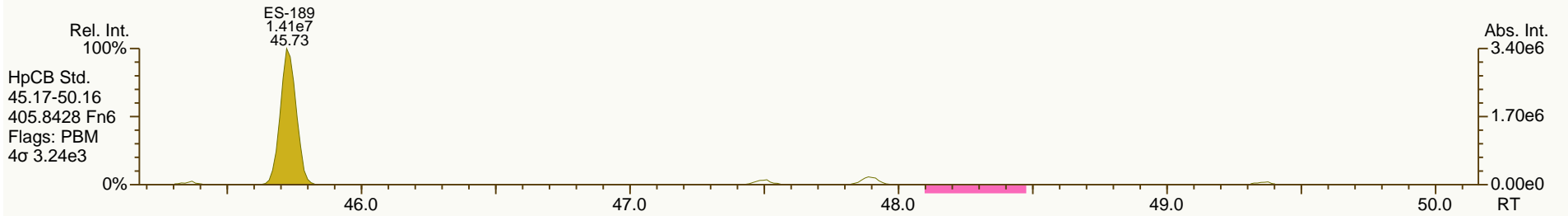
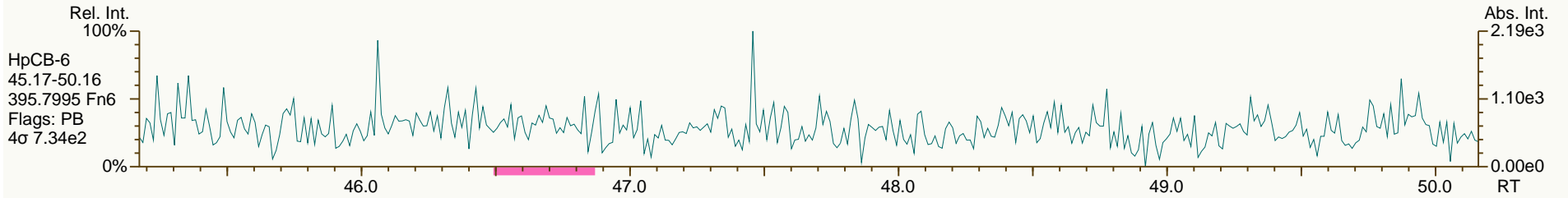
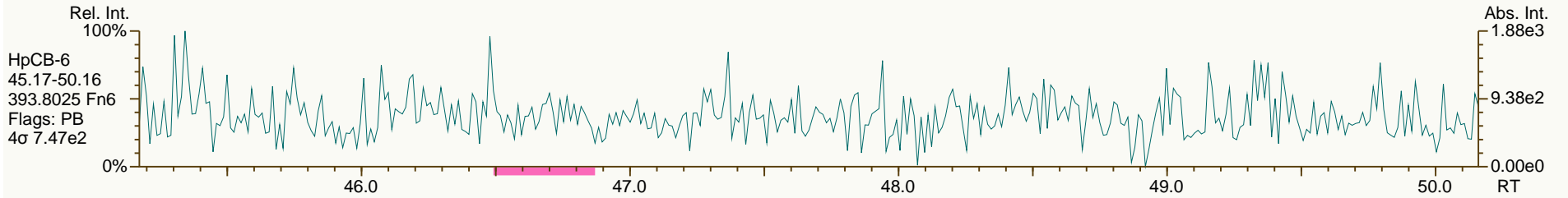




SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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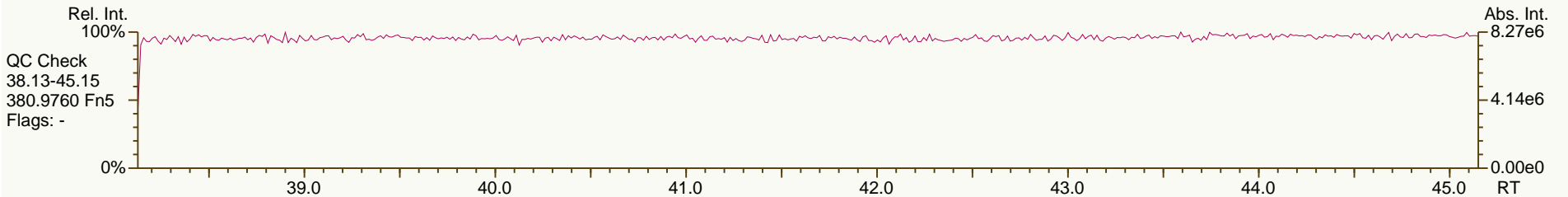
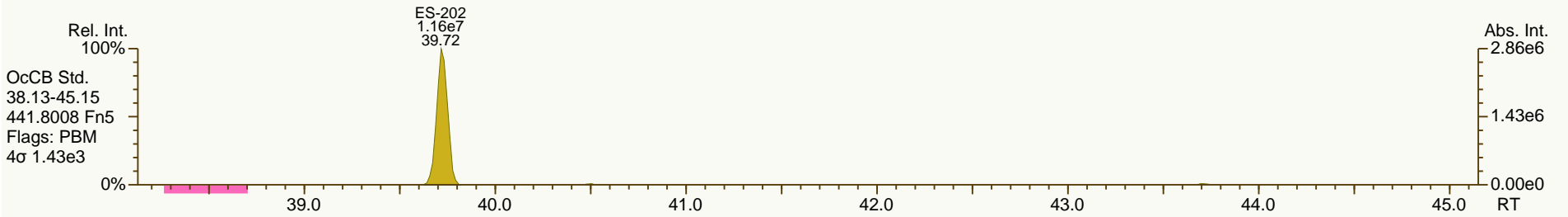
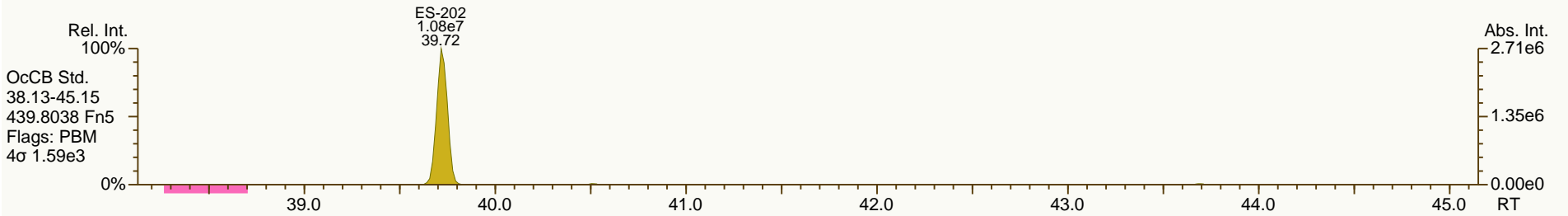
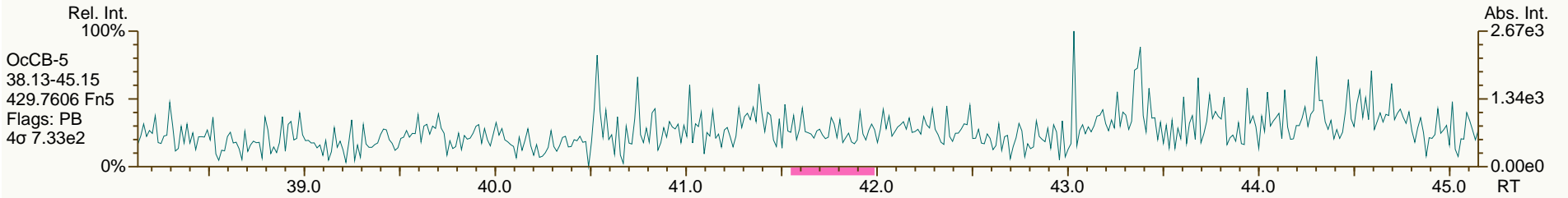
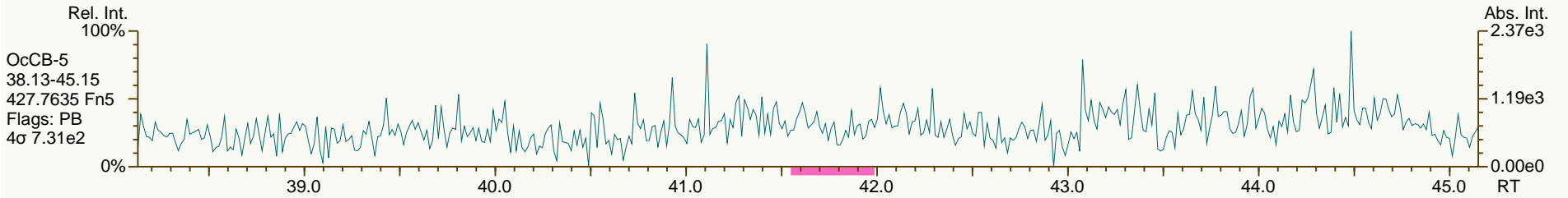
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

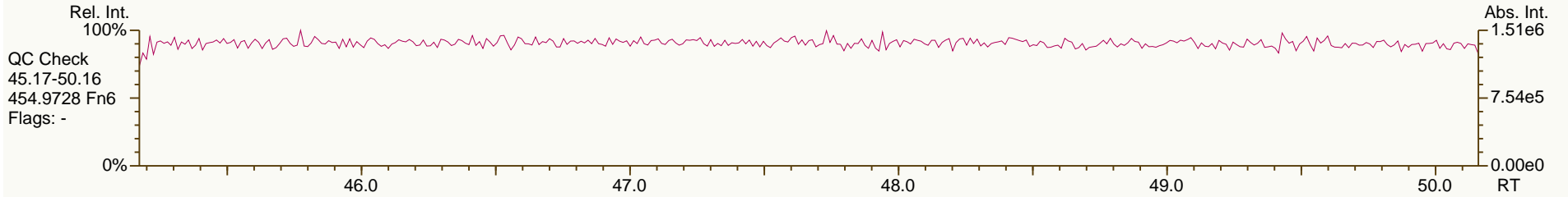
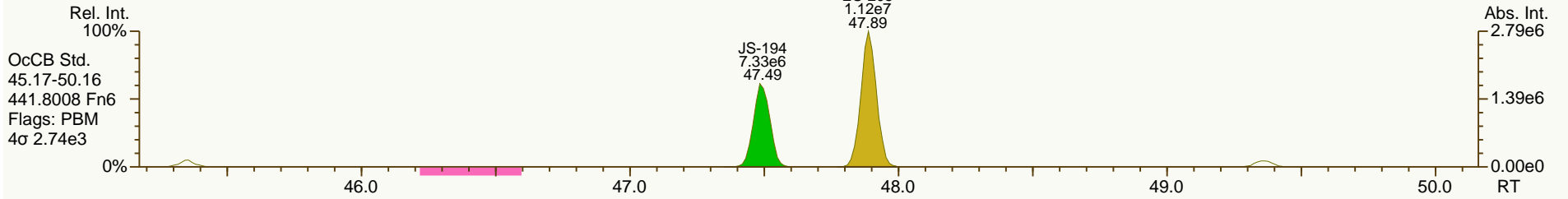
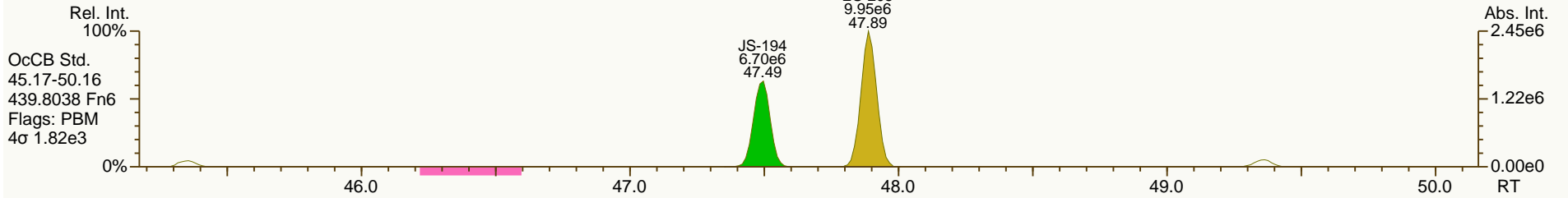
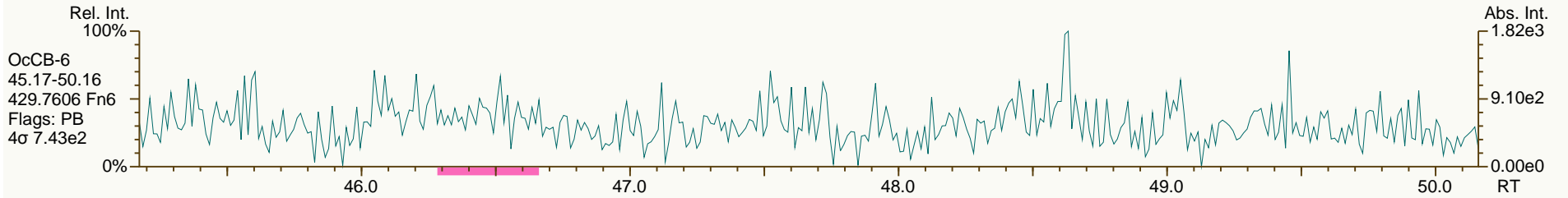
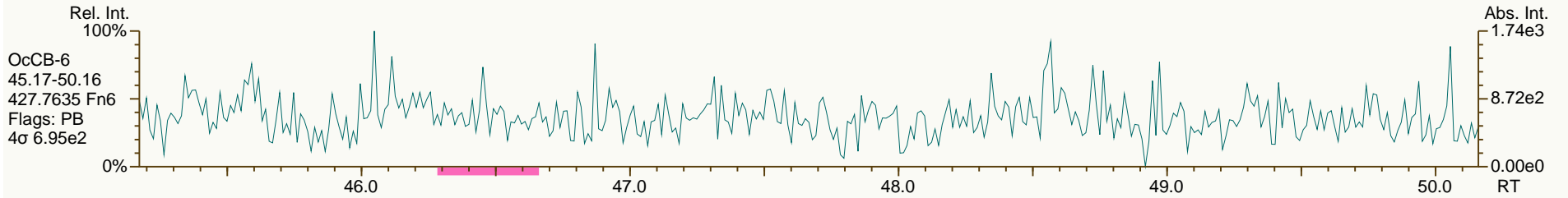
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

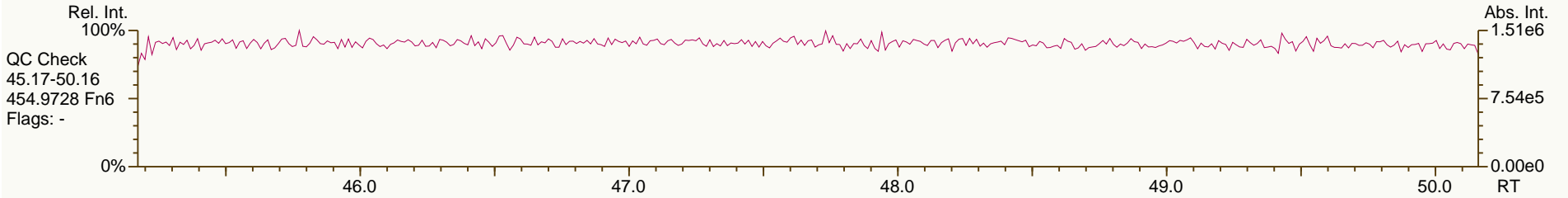
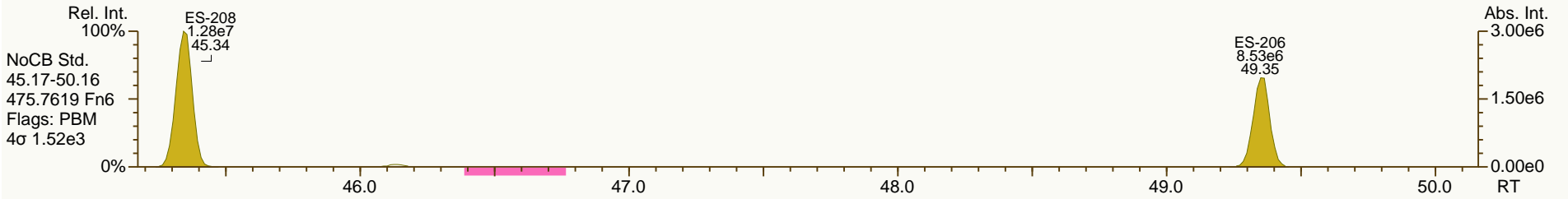
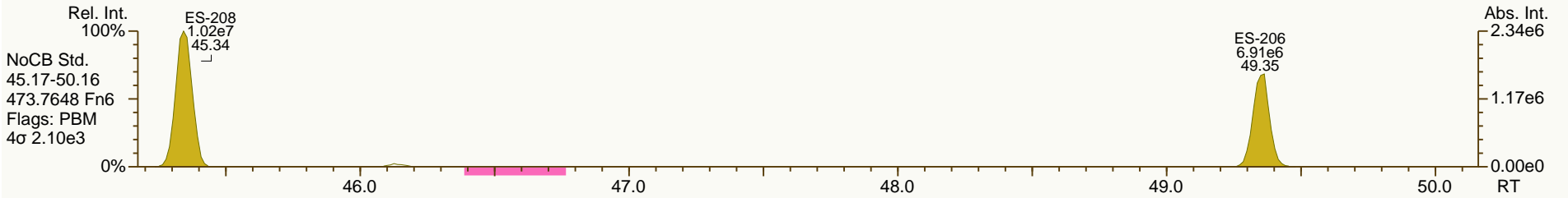
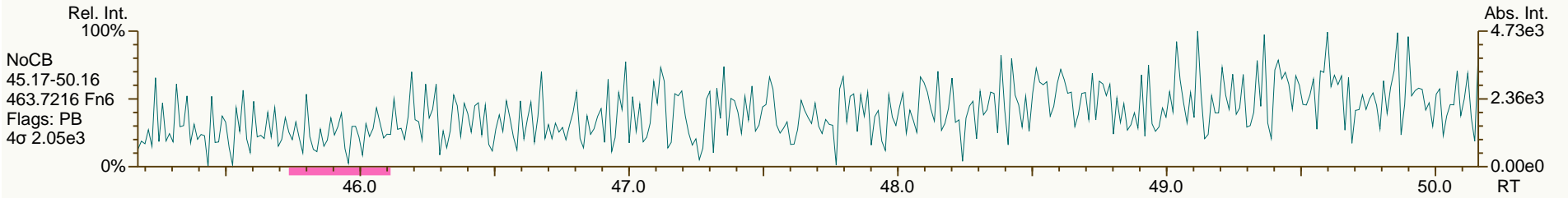
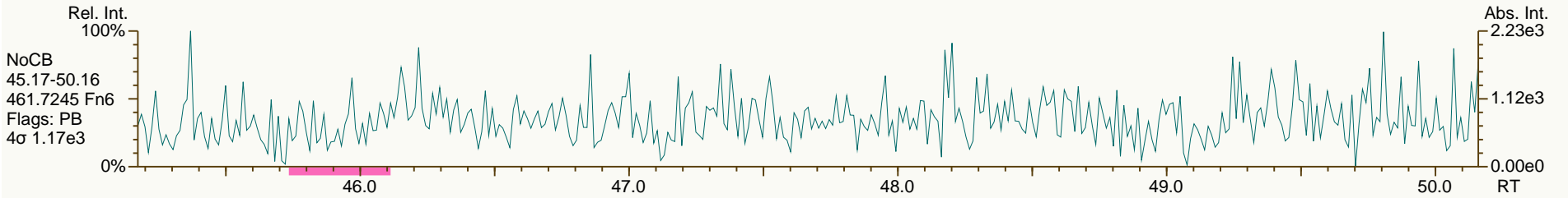
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

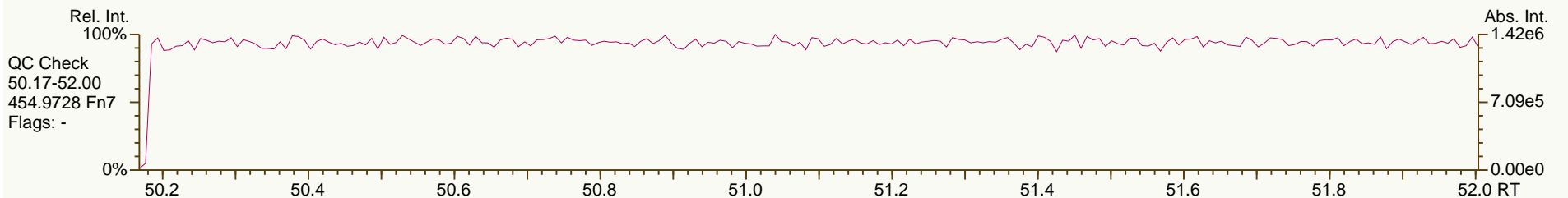
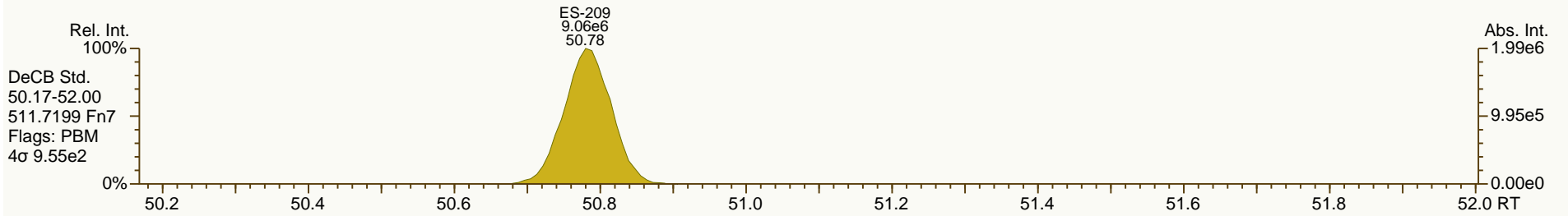
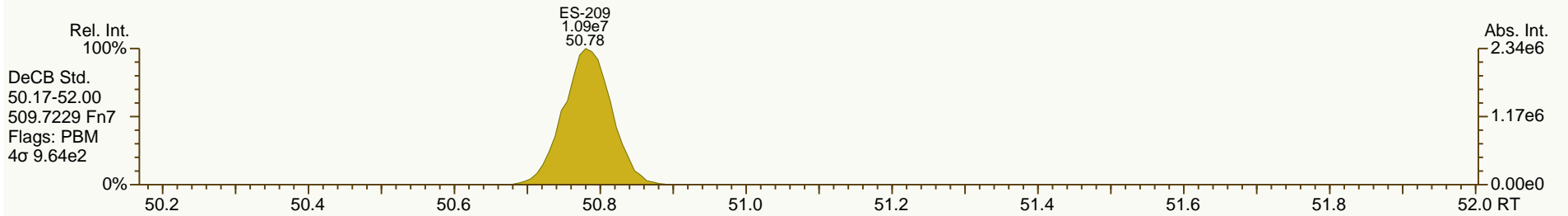
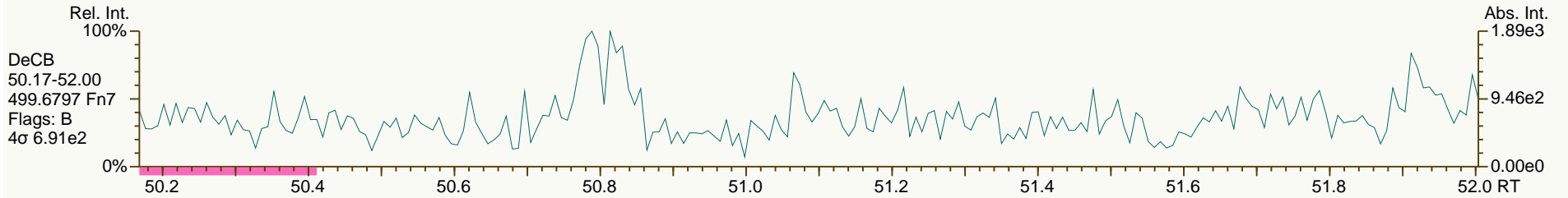
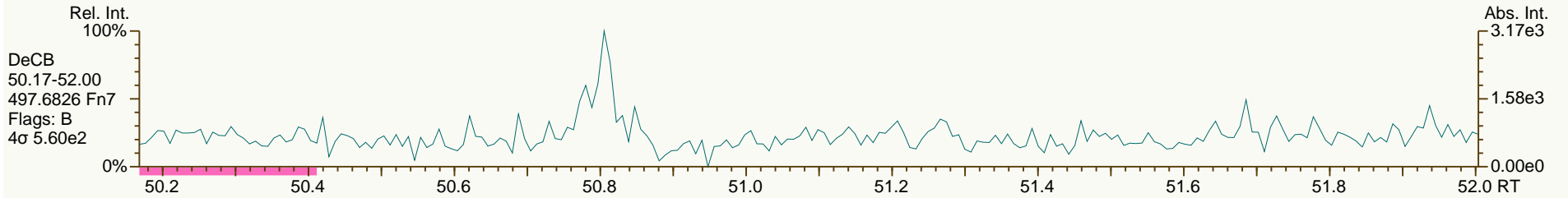
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

Acq: 28-Mar-2014 19:45:47  
 User: LKB Datafile: 140328X10



Lab ID: A6517\_11903\_PCB\_001-RJ  
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 UTP: 31-Mar-2014 07:34 DES  
 RPT: 04-Apr-2014 09:46 ds

Wt/Vol: 1.18 L  
 J-level: 8.45 pg/L Split: 1  
 Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB  
 Checkcode: 544-381-QBT  
 Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.76		1.0006	1.0006	0	4.66E+06	0.81	1.15	46.2	6.74E+03	0.686
PCB-81 344'5'-TeCB	32.29	J	1.0005	1.0006	+0.2	1.86E+05	0.85	1.12	1.96	6.74E+03	0.739
PCB-105 233'44'-PeCB	35.75		1.0006	1.0006	0	1.19E+07	0.63	1.11	143	3.18E+03	0.394
PCB-114 2344'5'-PeCB	35.21		1.0007	1.0006	-0.2	7.70E+05	0.61	1.20	8.76	3.18E+03	0.37
PCB-118 23'44'5'-PeCB	34.74		1.0006	1.0006	0	2.22E+07	0.61	1.19	258	3.18E+03	0.385
PCB-123 23'44'5'-PeCB	34.46	J	1.0006	1.0007	+0.2	6.41E+05	0.62	1.21	7.08	3.18E+03	0.353
PCB-126 33'44'5'-PeCB	38.36	J EMPC	1.0005	1.0006	+0.2	1.10E+05	0.75	1.11	1.49	3.86E+03	0.534
PCB-156/157 ...-HxCB	40.89	J C	1.0005	1.0002	-0.7	1.14E+06	1.25	1.10	15.8	1.95E+03	0.376
PCB-167 23'44'55'-HxCB	39.92	J	1.0006	1.0005	-0.2	3.99E+05	1.15	1.16	4.97	1.95E+03	0.244
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.95E+03	0.28
PCB-189 233'44'55'-HpCB	45.74	J	1.0004	1.0004	0	5.99E+04	1.01	1.07	0.937	1.77E+03	0.295
PCB-209 DeCB	50.80		1.0004	1.0004	0	2.14E+06	1.14	1.11	52.2	1.27E+03	0.354
ES PCB-1	11.86		0.7245	0.7246	+0.1	1.71E+08	3.24	1.19	71.8 %	15%	150%
ES PCB-3	14.14		0.8640	0.8640	0	1.84E+08	3.30	1.09	84.8 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	1.10E+08	1.58	0.52	105 %	25%	150%
ES PCB-15	20.10		1.2271	1.2277	+0.7	2.28E+08	1.55	1.04	110 %	25%	150%
ES PCB-19	17.47		1.0673	1.0674	+0.1	1.11E+08	1.06	0.51	109 %	25%	150%
ES PCB-37	26.42		1.0787	1.0790	+0.5	1.69E+08	1.09	1.66	93.1 %	25%	150%
ES PCB-54	20.38		0.8328	0.8324	-0.5	1.12E+08	0.79	0.86	119 %	25%	150%
ES PCB-77	32.74		1.3364	1.3373	+1.8	1.48E+08	0.80	1.38	98 %	25%	150%
ES PCB-81	32.27		1.3170	1.3179	+1.7	1.43E+08	0.79	1.37	96.2 %	25%	150%
ES PCB-104	25.35		0.8325	0.8321	-0.6	1.02E+08	1.62	0.80	130 %	25%	150%
ES PCB-105	35.73		1.1720	1.1725	+1.1	1.26E+08	1.58	1.20	107 %	25%	150%
ES PCB-114	35.18		1.1543	1.1548	+1.1	1.23E+08	1.60	1.22	104 %	25%	150%
ES PCB-118	34.72		1.1391	1.1395	+0.8	1.22E+08	1.59	1.16	108 %	25%	150%
ES PCB-123	34.44		1.1299	1.1303	+0.8	1.26E+08	1.59	1.19	109 %	25%	150%
ES PCB-126	38.34		1.2575	1.2582	+1.6	1.13E+08	1.55	1.03	112 %	25%	150%
ES PCB-153	36.30		0.9716	0.9716	0	8.81E+07	1.26	1.11	100 %	25%	150%
ES PCB-155	30.30		0.8114	0.8109	-0.9	1.25E+08	1.27	1.59	100 %	25%	150%
ES PCB-156/157	40.88		1.0939	1.0941	+0.5	2.23E+08	1.25	1.60	89.3 %	25%	150%
ES PCB-167	39.90		1.0677	1.0678	+0.2	1.17E+08	1.26	1.67	89.6 %	25%	150%
ES PCB-169	43.60		1.1664	1.1668	+1.0	1.09E+08	1.26	1.56	89.3 %	25%	150%
ES PCB-170	43.11		0.9081	0.9079	-0.5	6.88E+07	1.05	0.95	106 %	25%	150%
ES PCB-180	42.04		0.8856	0.8854	-0.5	8.32E+07	1.07	1.14	109 %	25%	150%
ES PCB-188	35.18		0.7413	0.7408	-1.1	8.85E+07	1.06	0.94	121 %	25%	150%
ES PCB-189	45.72		0.9629	0.9629	0	1.01E+08	1.02	1.58	102 %	25%	150%
ES PCB-202	39.71		0.8366	0.8363	-0.7	8.62E+07	0.94	0.97	114 %	25%	150%
ES PCB-205	47.88		1.0084	1.0084	0	7.25E+07	0.89	1.24	93.3 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	5.04E+07	0.79	0.83	97.3 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	8.06E+07	0.79	1.17	110 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	6.21E+07	1.17	1.11	89.6 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9339	0	2.09E+08	1.07	1.11	111 %	30%	135%
SS PCB-111	32.76		1.0750	1.0752	+0.4	1.41E+08	1.57	1.03	108 %	30%	135%
SS PCB-178	37.74		1.0100	1.0100	0	6.14E+07	1.08	0.62	112 %	30%	135%
CS PCB-28	22.87		0.9339	0.9339	0	2.09E+08	1.07	1.85	104 %	30%	135%
CS PCB-111	32.76		1.0750	1.0752	+0.4	1.41E+08	1.57	1.22	118 %	30%	135%
CS PCB-178	37.74		1.0100	1.0100	0	6.14E+07	1.08	0.58	135 %	30%	135%

JS PCB-9	16.37					2.00E+08	1.57				
JS PCB-52	24.48					1.09E+08	0.78				
JS PCB-101	30.47					9.79E+07	1.59				
JS PCB-138	37.37					7.81E+07	1.28				
JS PCB-194	47.48					6.25E+07	0.91				

	Totals	NON-EMPC	EMPC	DL
	Mono-CBs	31.1	31.1	0.389
	Di-CBs	420	420	0.503
	Tri-CBs	3,420	3,420	0.998
	Tetra-CBs	6,910	6,910	0.474
	Penta-CBs	2,520	2,520	0.366
	Hexa-CBs	559	564	0.257
	Hepta-CBs	147	152	0.329
	Octa-CBs	36.9	38.9	0.31
	Nona-CBs	11	11	0.881

PCB-1 2-MoCB	11.87		1.0011	1.0011	0	2.53E+06	3.19	0.95	26.2	5.86E+03	0.386
PCB-2 3-MoCB	13.98	J	0.9880	0.9881	+0.1	2.18E+05	3.34	1.17	1.72	5.86E+03	0.339
PCB-3 4-MoCB	14.16	J B	1.0010	1.0009	-0.1	3.50E+05	3.11	1.01	3.18	5.86E+03	0.391
PCB-4 22'-DiCB	14.41		1.0011	1.0011	0	1.25E+07	1.58	1.23	155	6.56E+03	0.621
PCB-10 26-DiCB	14.59	J	1.0135	1.0135	0	6.76E+05	1.61	1.92	5.4	6.56E+03	0.398
PCB-9 25-DiCB	16.39	J	1.0010	1.0010	0	1.01E+06	1.58	0.97	7.72	5.64E+03	0.406
PCB-7 24-DiCB	16.55	J	1.0111	1.0112	+0.1	4.74E+05	1.54	1.10	3.19	5.64E+03	0.357
PCB-6 23'-DiCB	16.78		1.0249	1.0250	+0.1	7.65E+06	1.65	1.03	55.1	5.64E+03	0.382
PCB-5 23-DiCB	17.08	J	1.0433	1.0435	+0.2	3.01E+05	1.70	1.03	2.16	5.64E+03	0.38
PCB-8 24'-DiCB	17.20		1.0506	1.0508	+0.2	1.42E+07	1.62	1.04	101	5.64E+03	0.378
PCB-14 35-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	5.64E+03	0.319
PCB-11 33'-DiCB	19.54	B	0.9721	0.9722	+0.1	2.93E+06	1.64	1.06	20.4	5.64E+03	0.37
PCB-13/12 34' /34-DiCB	19.81	J C	0.9866	0.9855	-1.3	2.25E+06	1.54	1.06	15.8	5.64E+03	0.372
PCB-15 44'-DiCB	20.11		1.0008	1.0006	-0.2	7.41E+06	1.62	1.02	53.8	5.64E+03	0.385
PCB-19 22'6-TrCB	17.49		1.0010	1.0010	0	7.84E+06	1.04	1.15	104	6.67E+03	0.777
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	7.00E+07	1.05	1.56	686	6.67E+03	0.572
PCB-17 22'4-TrCB	19.65		1.1243	1.1246	+0.4	2.05E+07	1.06	1.33	236	6.67E+03	0.67
PCB-27 23'6-TrCB	19.84		1.1353	1.1357	+0.5	5.04E+06	1.08	1.82	42.4	6.67E+03	0.491
PCB-24 236-TrCB	19.97	J	1.1430	1.1430	0	4.98E+05	1.19	1.74	4.39	6.67E+03	0.514
PCB-16 22'3-TrCB	20.07		1.1484	1.1488	+0.5	1.51E+07	1.07	0.99	233	6.67E+03	0.902

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.55		1.1758	1.1762	+0.5	2.87E+07	1.06	1.93	227	6.67E+03	0.461
PCB-34 23'5'-TrCB	21.70	J	0.8218	0.8214	-0.5	4.14E+05	1.05	1.25	3.32	1.32E+04	1.05
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	1.32E+04	1.04
PCB-26/29 23'5'/245-TrCB	22.11	C	0.8383	0.8370	-1.7	1.56E+07	1.00	1.28	122	1.32E+04	1.03
PCB-25 23'4-TrCB	22.33		0.8456	0.8454	-0.3	1.11E+07	1.00	1.26	87.9	1.32E+04	1.04
PCB-31 24'5-TrCB	22.61		0.8562	0.8559	-0.4	8.39E+07	1.00	1.34	625	1.32E+04	0.979
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8663	-1.0	7.90E+07	1.01	1.26	630	1.32E+04	1.05
PCB-21/33 234/23'4'-TrCB	23.10	C	0.8738	0.8744	+0.8	1.95E+07	1.01	1.28	152	1.32E+04	1.02
PCB-22 234'-TrCB	23.45		0.8880	0.8877	-0.4	1.97E+07	1.02	1.20	165	1.32E+04	1.1
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	1.32E+04	0.997
PCB-39 34'5-TrCB	25.20	J	0.9522	0.9539	+2.6	6.97E+05	0.99	1.36	5.14	1.32E+04	0.969
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	1.32E+04	1.08
PCB-35 33'4-TrCB	26.08	J	0.9871	0.9870	-0.2	9.78E+05	1.13	1.19	8.23	1.32E+04	1.11
PCB-37 344'-TrCB	26.44		1.0007	1.0009	+0.3	9.40E+06	1.02	1.08	87.2	1.32E+04	1.22
PCB-54 22'66'-TeCB	20.40	J	1.0010	1.0009	-0.1	3.26E+05	0.78	1.35	3.65	2.32E+03	0.244
PCB-50/53 22'46/22'56'-TeCB	22.36	C	0.9145	0.9133	-1.6	1.68E+07	0.78	0.92	214	2.60E+03	0.346
PCB-45 22'36-TeCB	22.98		0.9383	0.9385	+0.3	1.41E+07	0.79	0.84	197	2.60E+03	0.38
PCB-51 22'46'-TeCB	23.05		0.9413	0.9415	+0.3	4.91E+06	0.80	0.90	64.5	2.60E+03	0.356
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	4.93E+06	0.79	0.74	78.8	2.60E+03	0.434
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	9.01E+07	0.79	0.90	1,180	2.60E+03	0.355
PCB-73 23'5'6-TeCB	24.63	J	1.0062	1.0059	-0.4	2.31E+05	0.72	1.19	2.28	2.60E+03	0.267
PCB-43 22'35-TeCB	24.73		1.0101	1.0100	-0.1	2.44E+06	0.79	0.75	38.1	2.60E+03	0.423
PCB-69/49 23'46/22'45'-TeCB	24.95	C	1.0181	1.0189	+1.2	5.40E+07	0.78	1.10	581	2.60E+03	0.291
PCB-48 22'45-TeCB	25.21		1.0295	1.0296	+0.2	1.32E+07	0.79	0.90	172	2.60E+03	0.353
PCB-44/47/65 ...-TeCB	25.40	C	1.0384	1.0374	-1.5	8.04E+07	0.78	0.96	982	2.60E+03	0.331
PCB-59/62/75 ...-TeCB	25.69	C	1.0496	1.0493	-0.5	7.64E+06	0.80	1.25	71.9	2.60E+03	0.255
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	1.70E+07	0.78	0.82	245	2.60E+03	0.39
PCB-41 22'34-TeCB	26.19		1.0698	1.0698	0	3.73E+06	0.81	0.76	57.6	2.60E+03	0.418
PCB-71/40 23'4'6/22'33'-TeCB	26.29	C	1.0737	1.0739	+0.3	3.40E+07	0.79	0.92	438	2.60E+03	0.349
PCB-64 234'6-TeCB	26.49		1.0819	1.0821	+0.3	4.14E+07	0.77	1.33	368	2.60E+03	0.24
PCB-72 23'55'-TeCB	27.21	J	0.8436	0.8432	-0.7	4.72E+05	0.75	1.26	4.39	6.74E+03	0.654
PCB-68 23'45'-TeCB	27.47		0.8515	0.8513	-0.3	3.52E+06	0.76	1.35	30.7	6.74E+03	0.612
PCB-57 233'5-TeCB	27.84	J	0.8630	0.8628	-0.3	2.97E+05	0.71	1.22	2.87	6.74E+03	0.678
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.27	ND	6.74E+03	0.649
PCB-67 23'45-TeCB	28.20		0.8741	0.8739	-0.3	1.56E+06	0.79	1.33	13.9	6.74E+03	0.623
PCB-63 234'5-TeCB	28.43		0.8811	0.8809	-0.3	2.70E+06	0.77	1.40	22.8	6.74E+03	0.591
PCB-61/70/74/76 ...-TeCB	28.72	C	0.8902	0.8902	0	1.08E+08	0.79	1.25	1,020	6.74E+03	0.663
PCB-66 23'44'-TeCB	29.00		0.8989	0.8986	-0.5	6.29E+07	0.80	1.18	629	6.74E+03	0.701
PCB-55 233'4-TeCB	29.14	J	0.9034	0.9032	-0.3	6.51E+05	0.76	1.18	6.49	6.74E+03	0.7
PCB-56 233'4'-TeCB	29.58		0.9169	0.9167	-0.4	2.95E+07	0.81	1.17	298	6.74E+03	0.709
PCB-60 2344'-TeCB	29.77		0.9229	0.9227	-0.4	1.33E+07	0.81	1.20	130	6.74E+03	0.689
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	6.74E+03	0.6
PCB-79 33'45'-TeCB	31.43	J	0.9737	0.9741	+0.8	5.28E+05	0.73	1.37	4.53	6.74E+03	0.603
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	6.74E+03	0.721
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.39E+03	0.163
PCB-96 22'366'-PeCB	25.69		1.0134	1.0134	0	7.16E+05	0.64	1.18	10	1.39E+03	0.197
PCB-103 22'45'6-PeCB	27.38	J	0.8989	0.8987	-0.3	2.24E+05	0.61	0.93	3.22	3.18E+03	0.458
PCB-94 22'356'-PeCB	27.58	J	0.9051	0.9050	-0.2	2.65E+05	0.63	0.79	4.5	3.18E+03	0.542



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.95		0.9176	0.9174	-0.3	1.89E+07	0.61	0.86	294	3.18E+03	0.496
PCB-100/93 22'44'6/22'356-PeCB	28.16	J C	0.9246	0.9243	-0.5	4.73E+05	0.65	0.86	7.39	3.18E+03	0.498
PCB-102 22'456'-PeCB	28.28		0.9282	0.9280	-0.3	1.65E+06	0.63	1.00	22	3.18E+03	0.427
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.74	ND	3.18E+03	0.58
PCB-88 22'346-PeCB	28.65	J	0.9403	0.9403	0	2.62E+05	0.59	0.78	4.51	3.18E+03	0.55
PCB-91 22'34'6-PeCB	28.71		0.9424	0.9424	0	4.93E+06	0.64	0.92	71.8	3.18E+03	0.465
PCB-84 22'33'6-PeCB	28.90		0.9487	0.9487	0	7.46E+06	0.61	0.71	140	3.18E+03	0.599
PCB-89 22'346'-PeCB	29.32		0.9624	0.9624	0	7.98E+05	0.62	0.76	14.1	3.18E+03	0.564
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	3.18E+03	0.357
PCB-92 22'355'-PeCB	29.98		0.9841	0.9840	-0.2	3.75E+06	0.62	0.81	62	3.18E+03	0.527
PCB-113/90/101 ...-PeCB	30.49	C	0.9999	1.0007	+1.5	2.31E+07	0.63	0.96	322	3.18E+03	0.445
PCB-83 22'33'5-PeCB	30.89		1.0142	1.0140	-0.4	1.10E+06	0.63	0.70	21.2	3.18E+03	0.614
PCB-99 22'44'5-PeCB	31.00		1.0173	1.0173	0	1.41E+07	0.62	0.90	210	3.18E+03	0.477
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	3.18E+03	0.366
PCB-108/119/86/97/125...-PeCB	31.47	C	1.0320	1.0330	+1.9	2.06E+07	0.61	0.98	283	3.18E+03	0.438
PCB-117 234'56-PeCB	31.97		1.0495	1.0493	-0.4	7.76E+05	0.62	1.18	8.84	3.18E+03	0.363
PCB-116/85 23456/22'344'-PeCB	32.06	C	1.0525	1.0522	-0.6	6.78E+06	0.62	0.88	104	3.18E+03	0.488
PCB-110 233'4'6-PeCB	32.19		1.0561	1.0564	+0.6	3.24E+07	0.62	1.10	396	3.18E+03	0.39
PCB-115 2344'6-PeCB	32.28		1.0590	1.0594	+0.8	9.17E+05	0.59	1.16	10.6	3.18E+03	0.37
PCB-82 22'33'4-PeCB	32.47		1.0655	1.0657	+0.4	3.68E+06	0.59	0.69	71.7	3.18E+03	0.622
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	3.18E+03	0.354
PCB-120 23'455'-PeCB	33.18	J EMPC	1.0887	1.0890	+0.6	4.73E+04	0.47	1.22	0.517	3.18E+03	0.349
PCB-107/124 ...-PeCB	34.15	J C	0.9916	0.9916	0	9.76E+05	0.63	1.11	11.8	3.18E+03	0.386
PCB-109 233'46-PeCB	34.36		0.9976	0.9977	+0.2	2.02E+06	0.62	1.24	21.8	3.18E+03	0.345
PCB-106 233'45-PeCB	34.55	J EMPC	1.0038	1.0033	-1.0	9.15E+04	0.46	1.11	1.11	3.18E+03	0.386
PCB-122 233'4'5'-PeCB	35.04	J	1.0091	1.0091	0	4.63E+05	0.61	1.03	6.12	3.18E+03	0.43
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	3.18E+03	0.393
PCB-155 22'44'66'-HxCB	30.32	J EMPC	1.0007	1.0007	0	2.73E+04	0.92	1.26	0.294	1.21E+03	0.13
PCB-152 22'3566'-HxCB	30.48	J	1.0060	1.0059	-0.2	3.06E+04	1.08	1.14	0.364	1.21E+03	0.144
PCB-150 22'34'66'-HxCB	30.63	J	1.0107	1.0110	+0.6	2.01E+04	1.31	1.15	0.236	1.21E+03	0.142
PCB-136 22'33'66'-HxCB	30.93		1.0207	1.0208	+0.2	1.36E+06	1.25	1.06	17.4	1.21E+03	0.155
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.21E+03	0.15
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.21E+03	0.217
PCB-151/135 ...-HxCB	32.99	C	1.0886	1.0887	+0.2	2.02E+06	1.25	1.09	35.5	1.21E+03	0.228
PCB-154 22'44'56'-HxCB	33.20	J EMPC	1.0954	1.0956	+0.4	7.96E+04	1.01	1.29	1.19	1.21E+03	0.194
PCB-144 22'345'6-HxCB	33.47	J	1.1041	1.1045	+0.8	3.41E+05	1.31	1.14	5.74	1.21E+03	0.219
PCB-147/149 ...-HxCB	33.76	C	1.1141	1.1143	+0.4	5.29E+06	1.28	1.11	90.9	1.21E+03	0.223
PCB-134 22'33'56-HxCB	33.94	J	1.1199	1.1203	+0.8	3.82E+05	1.08	0.93	7.84	1.21E+03	0.267
PCB-143 22'3456'-HxCB	34.03	J EMPC	1.1225	1.1231	+1.2	3.55E+04	1.49	1.02	0.667	1.21E+03	0.244
PCB-139/140 ...-HxCB	34.28	J C	1.1312	1.1315	+0.6	1.68E+05	1.28	1.13	2.84	1.21E+03	0.22
PCB-131 22'33'46-HxCB	34.46	J	1.1369	1.1372	+0.6	1.25E+05	1.34	0.98	2.46	1.21E+03	0.255
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.21E+03	0.262
PCB-132 22'33'46'-HxCB	34.84		1.1494	1.1499	+1.0	2.38E+06	1.28	0.99	46	1.21E+03	0.252
PCB-133 22'33'55'-HxCB	35.24	J EMPC	1.1626	1.1630	+0.8	9.06E+04	1.49	1.05	1.66	1.21E+03	0.237
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.21E+03	0.184
PCB-146 22'34'55'-HxCB	35.80		0.9582	0.9580	-0.4	1.07E+06	1.31	1.15	17.8	1.21E+03	0.217
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.21E+03	0.169
PCB-153/168 ...-HxCB	36.32	C	0.9728	0.9721	-1.5	6.46E+06	1.23	1.42	87.5	1.21E+03	0.176

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.49		0.9766	0.9766	0	1.21E+06	1.20	1.04	22.3	1.21E+03	0.24
PCB-130 22'33'45'-HxCB	36.84		0.9859	0.9858	-0.2	4.89E+05	1.22	0.92	10.2	1.21E+03	0.271
PCB-137 22'344'5-HxCB	37.03	J	0.9911	0.9911	0	4.40E+05	1.12	1.11	7.57	1.21E+03	0.224
PCB-164 233'4'5'6-HxCB	37.12		0.9933	0.9933	0	6.56E+05	1.35	1.43	8.81	1.21E+03	0.175
PCB-163/138/129 ...-HxCB	37.39	C	1.0011	1.0007	-0.9	8.22E+06	1.28	1.15	138	1.21E+03	0.217
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.21E+03	0.179
PCB-158 233'44'6-HxCB	37.72		1.0096	1.0096	0	1.13E+06	1.24	1.53	14.1	1.21E+03	0.162
PCB-128/166 ...-HxCB	38.47	C	0.9641	0.9642	+0.2	1.41E+06	1.22	0.90	22.7	1.95E+03	0.314
PCB-159 233'455'-HxCB	39.26	J EMPC	0.9844	0.9841	-0.7	7.09E+04	1.49	1.10	0.933	1.95E+03	0.258
PCB-162 233'4'55'-HxCB	39.51	J	0.9903	0.9903	0	4.00E+04	1.33	1.10	0.525	1.95E+03	0.257
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.21E+03	0.19
PCB-179 22'33'566'-HpCB	35.48	J	1.0086	1.0087	+0.2	4.66E+05	1.04	1.13	7.89	1.21E+03	0.214
PCB-184 22'344'66'-HpCB	35.93	J	1.0216	1.0214	-0.4	2.18E+04	1.19	1.06	0.395	1.21E+03	0.228
PCB-176 22'33'466'-HpCB	36.24	J	1.0300	1.0301	+0.2	1.45E+05	1.13	1.15	2.41	1.21E+03	0.21
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.21E+03	0.225
PCB-178 22'33'55'6-HpCB	37.76	J EMPC	1.0733	1.0735	+0.5	1.47E+05	0.87	0.77	3.63	1.21E+03	0.311
PCB-175 22'33'45'6-HpCB	38.31	J	1.0887	1.0889	+0.5	3.81E+04	1.04	1.07	0.72	2.05E+03	0.396
PCB-187 22'34'55'6-HpCB	38.53		1.0952	1.0954	+0.5	1.19E+06	1.07	1.15	21	2.05E+03	0.37
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	2.05E+03	0.361
PCB-183 22'344'5'6-HpCB	39.06		1.1101	1.1102	+0.2	5.75E+05	1.13	1.20	9.77	2.05E+03	0.356
PCB-185 22'3455'6-HpCB	39.14	J	1.1125	1.1127	+0.5	1.13E+05	1.04	1.10	2.07	2.05E+03	0.385
PCB-174 22'33'456'-HpCB	39.25		1.1156	1.1159	+0.7	8.71E+05	1.03	0.94	18.9	2.05E+03	0.454
PCB-177 22'33'45'6'-HpCB	39.63		1.1262	1.1265	+0.7	5.30E+05	0.99	0.92	11.7	2.05E+03	0.461
PCB-181 22'344'56-HpCB	39.97	J EMPC	1.1361	1.1361	0	2.42E+04	0.87	1.07	0.459	2.05E+03	0.397
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1418	+1.2	2.96E+05	1.07	0.94	6.4	2.05E+03	0.454
PCB-172 22'33'455'-HpCB	41.51	J	0.9080	0.9078	-0.5	1.65E+05	1.12	0.98	3.43	2.05E+03	0.435
PCB-192 233'455'6-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	2.05E+03	0.33
PCB-180/193 ...-HpCB	42.06	C	0.9194	0.9199	+1.3	2.36E+06	1.08	1.24	38.5	2.05E+03	0.342
PCB-191 233'44'5'6-HpCB	42.36	J EMPC	0.9266	0.9265	-0.3	5.32E+04	0.79	1.38	0.781	2.05E+03	0.308
PCB-170 22'33'44'5-HpCB	43.13		0.9434	0.9433	-0.3	9.01E+05	1.06	1.13	19.5	2.05E+03	0.47
PCB-190 233'44'56-HpCB	43.58	J	0.9533	0.9532	-0.3	2.37E+05	0.97	1.60	3.64	2.05E+03	0.334
PCB-202 22'33'55'66'-OoCB	39.73	J	1.0005	1.0006	+0.2	1.06E+05	0.87	1.05	1.97	1.35E+03	0.257
PCB-201 22'33'45'66'-OoCB	40.52	J EMPC	1.0203	1.0203	0	8.96E+04	0.69	1.14	1.53	1.35E+03	0.236
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.35E+03	0.252
PCB-197 22'33'44'66'-OoCB	41.28	J EMPC	1.0396	1.0394	-0.5	2.58E+04	1.08	1.10	0.458	1.35E+03	0.246
PCB-200 22'33'4566'-OoCB	41.37	J	1.0418	1.0418	0	5.98E+04	1.00	1.08	1.08	1.35E+03	0.25
PCB-198/199 ...-OoCB	43.72	J C	1.1001	1.1008	+1.8	4.12E+05	0.97	0.74	10.9	1.35E+03	0.364
PCB-196 22'33'44'56'-OoCB	44.27	J	1.1146	1.1148	+0.5	1.83E+05	0.92	0.80	4.49	1.35E+03	0.34
PCB-203 22'344'55'6-OoCB	44.44	J	1.1188	1.1191	+0.8	2.27E+05	1.00	0.83	5.32	1.35E+03	0.325
PCB-195 22'33'44'56-OoCB	45.56	J	0.9516	0.9516	0	1.21E+05	1.01	0.72	3.89	1.58E+03	0.533
PCB-194 22'33'44'55'-OoCB	47.51		0.9921	0.9921	0	3.21E+05	0.93	0.81	9.27	1.58E+03	0.478
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.58E+03	0.363
PCB-208 22'33'455'66'-NoCB	45.36	J	1.0005	1.0004	-0.3	1.64E+05	0.83	1.12	3.06	3.47E+03	0.666
PCB-207 22'33'44'566'-NoCB	46.15	J	1.0178	1.0179	+0.3	1.48E+05	0.77	1.18	2.64	3.47E+03	0.637
PCB-206 22'33'44'55'6-NoCB	49.37	J	1.0004	1.0004	0	1.76E+05	0.75	1.11	5.28	3.47E+03	1.1

SGS ID: A6517\_11903\_PCB\_001-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB081\_A-2SWMID-140315-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 78

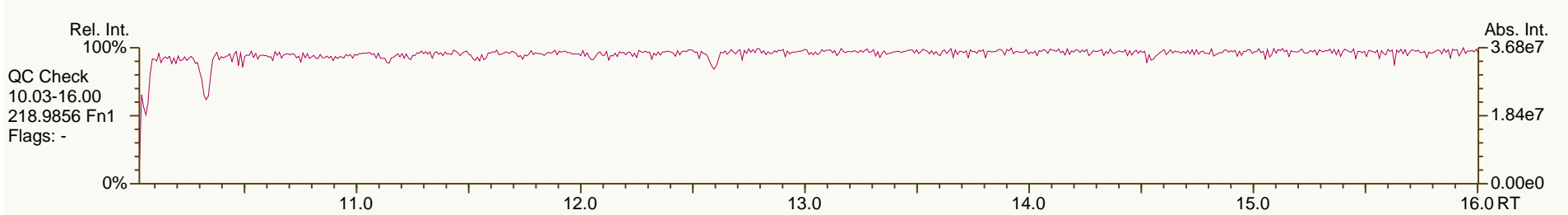
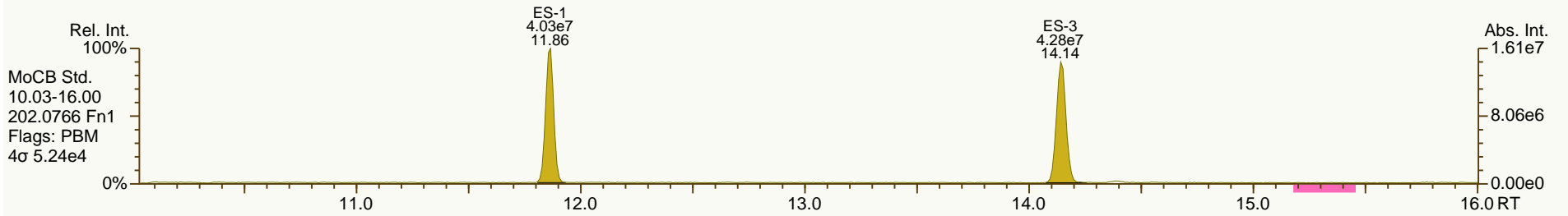
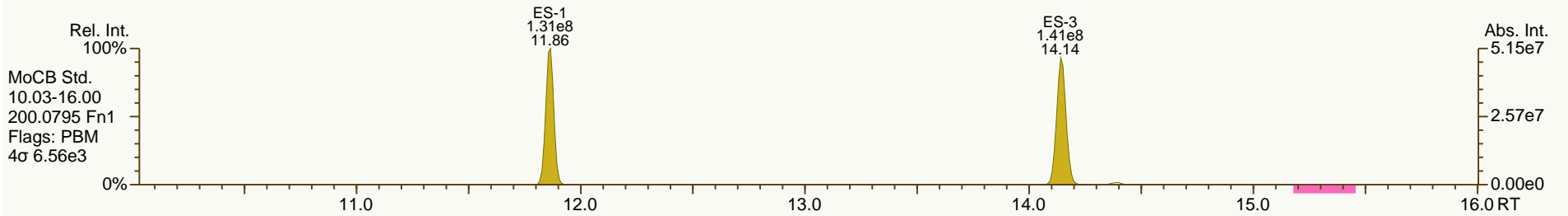
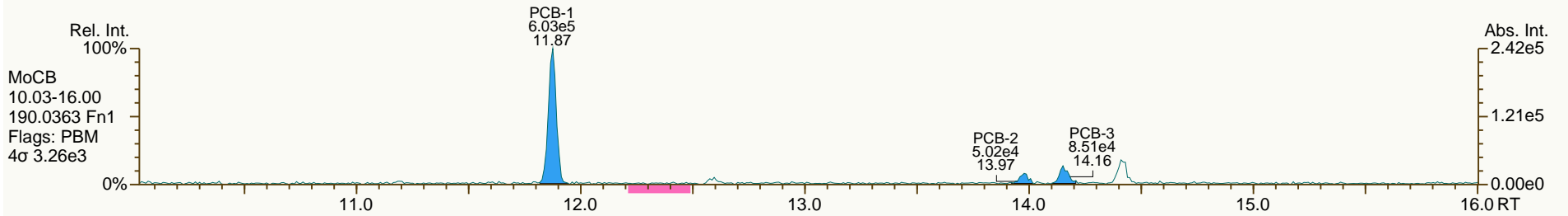
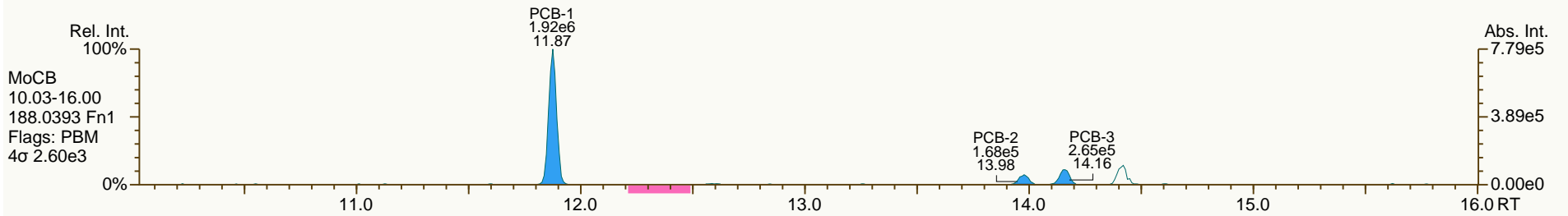
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SGS ID: A6517\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB081\_A-2SWMID-140315-N  
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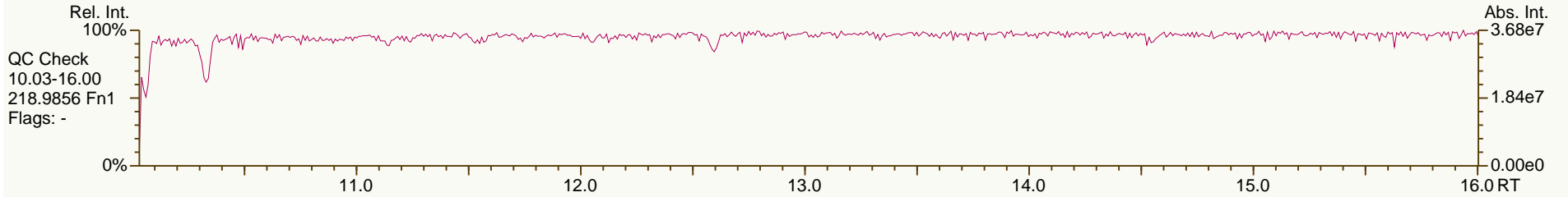
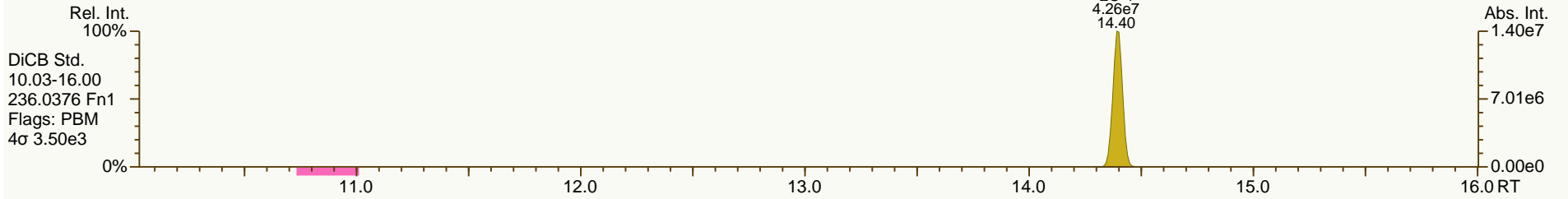
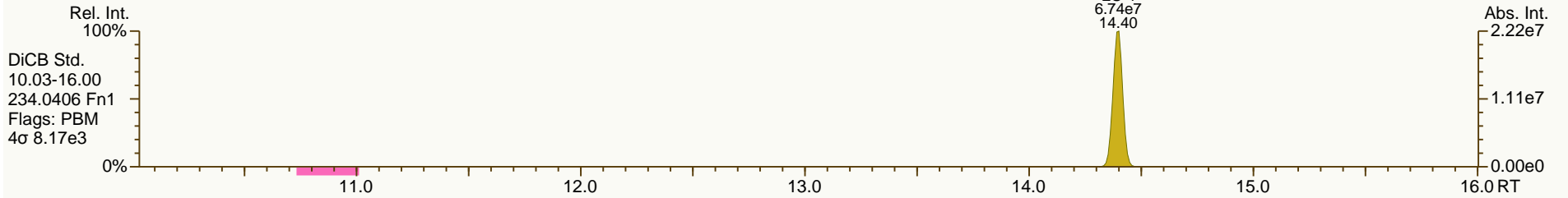
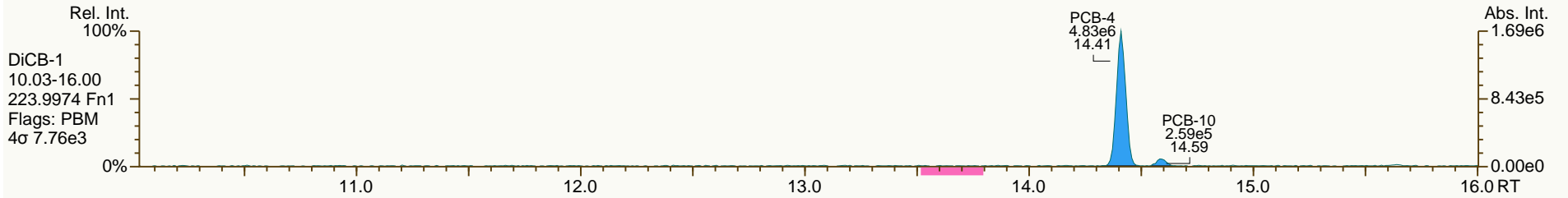
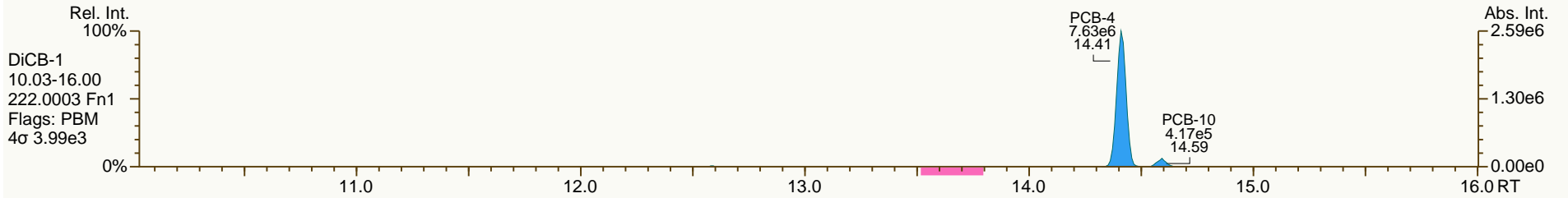
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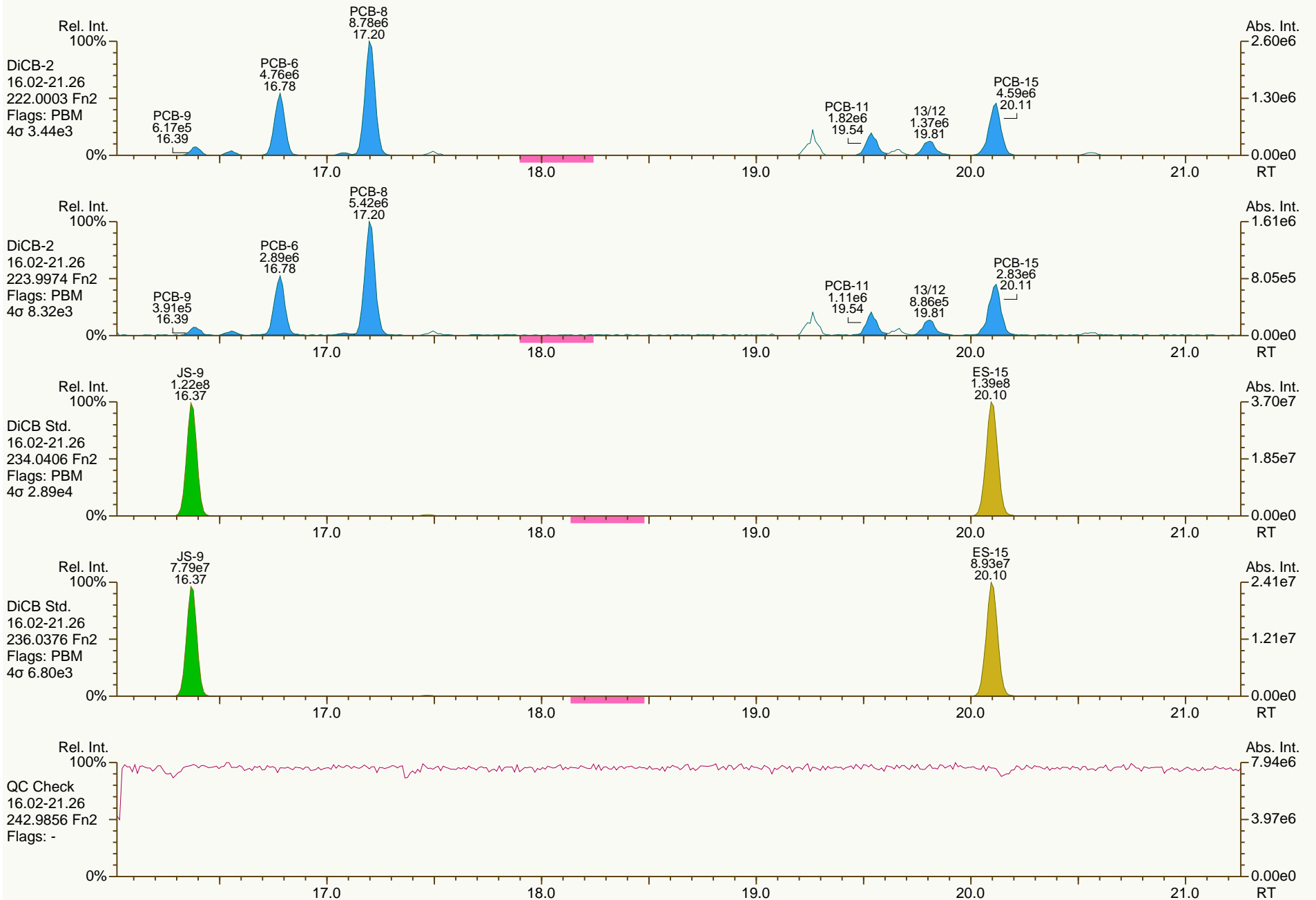
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 Instr: [ILM] AutoSpec-Premier MM7

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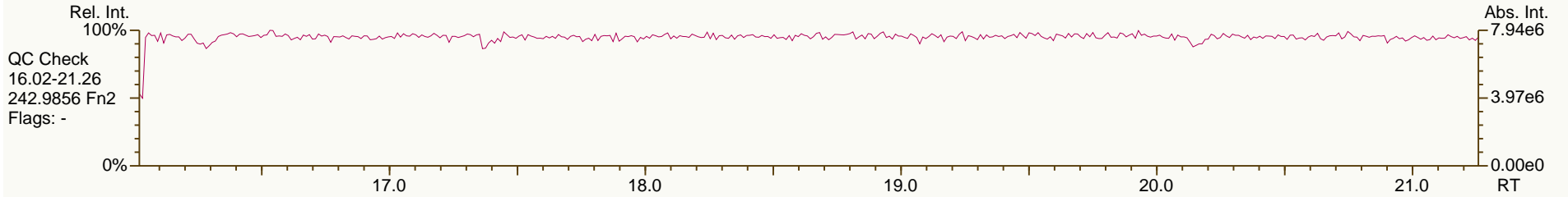
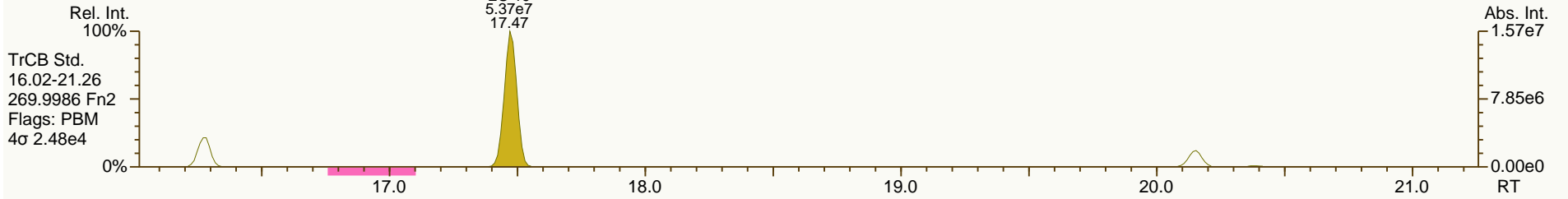
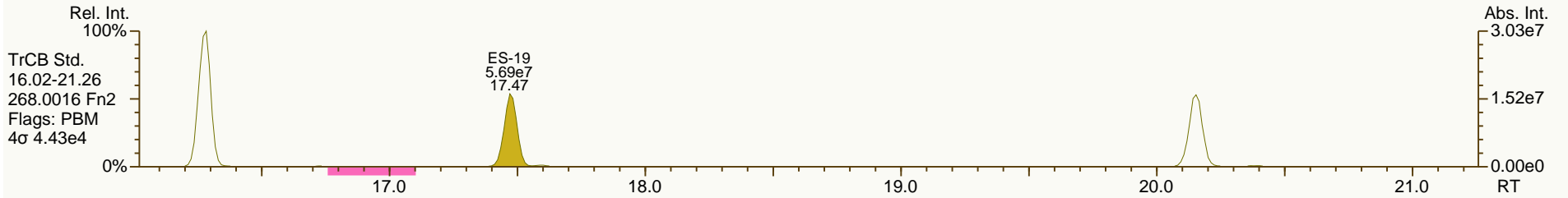
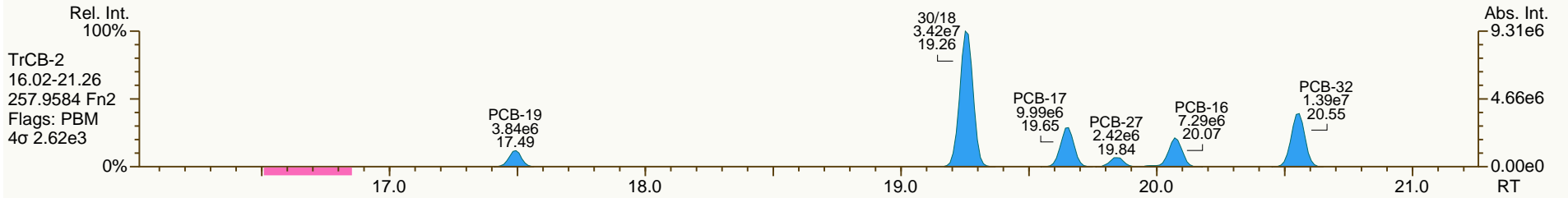
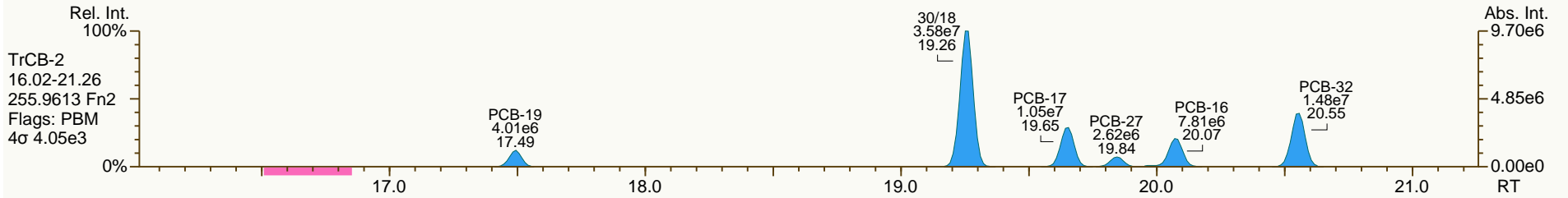
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SGS ID: A6517\_11903\_PCB\_001-RJ  
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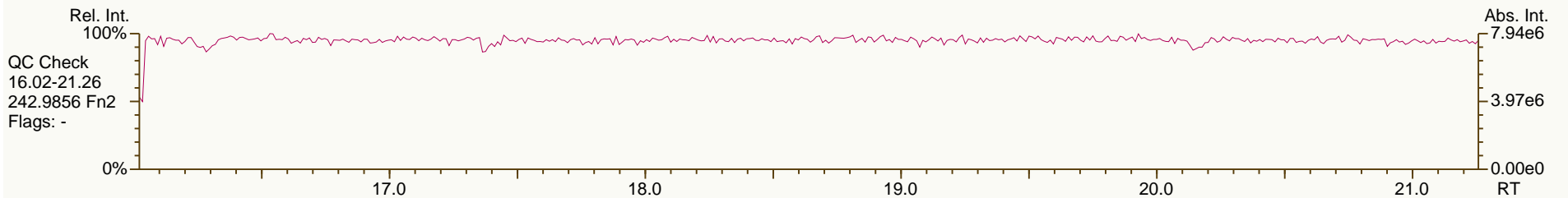
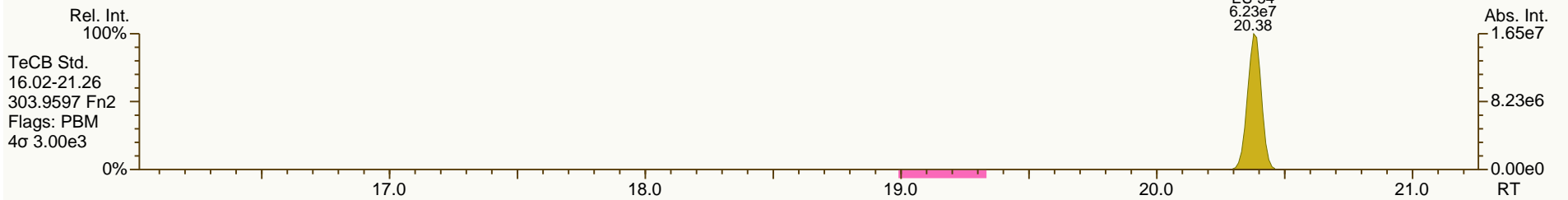
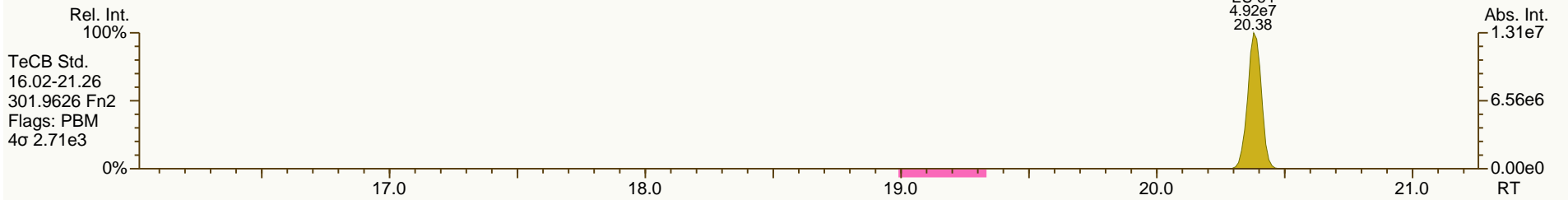
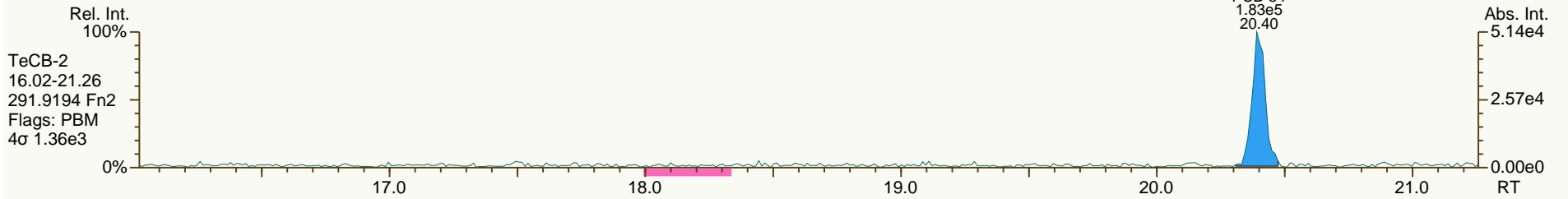
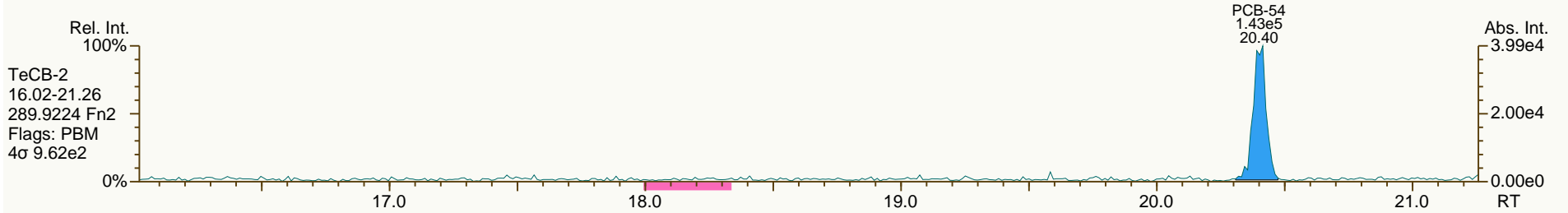




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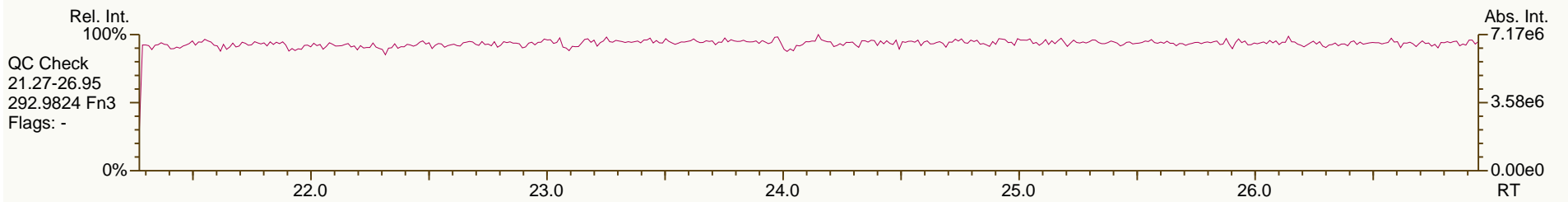
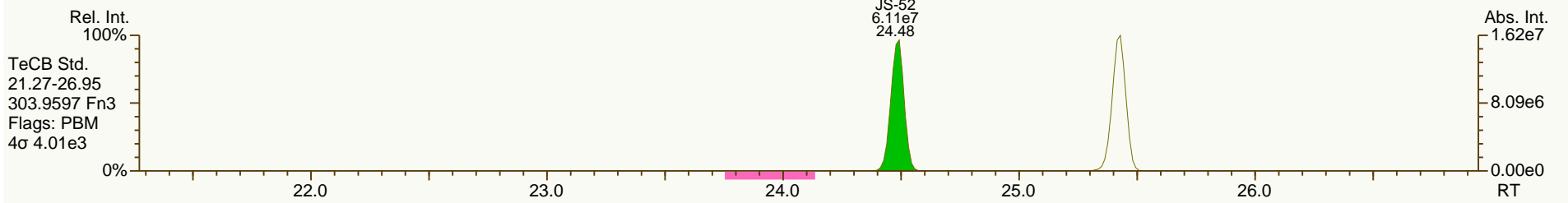
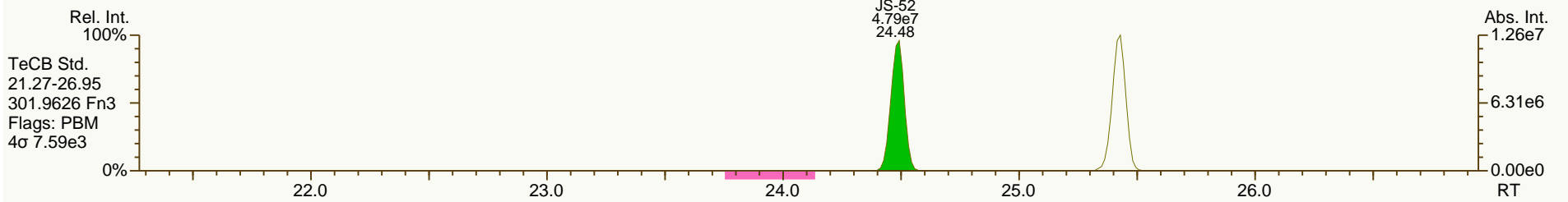
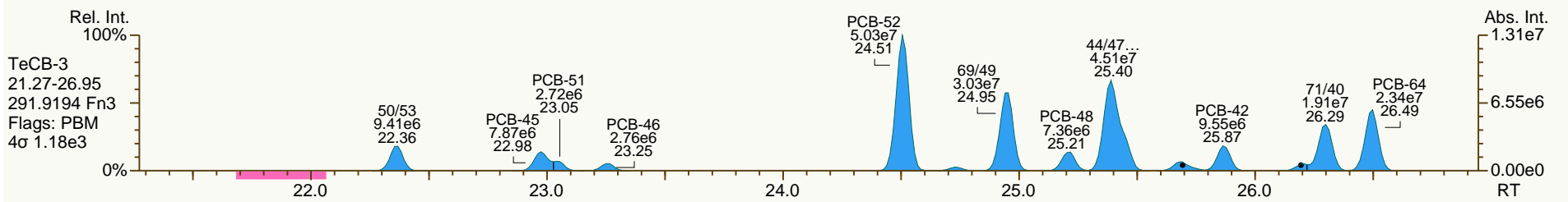
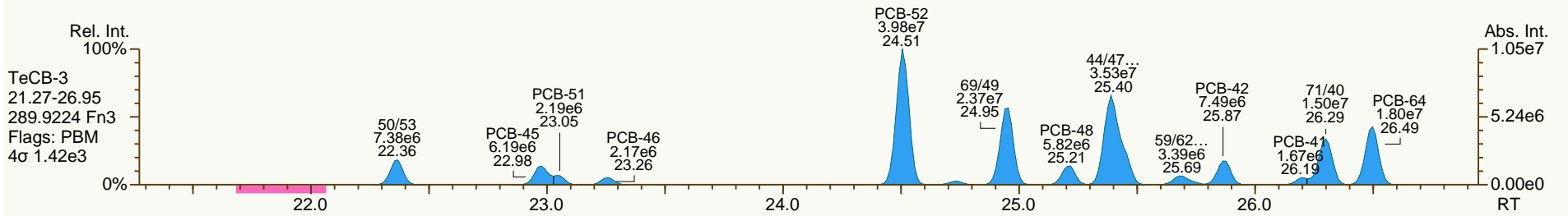
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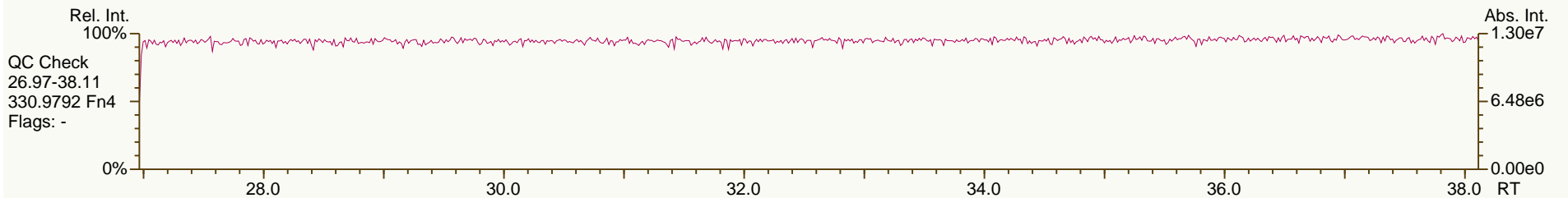
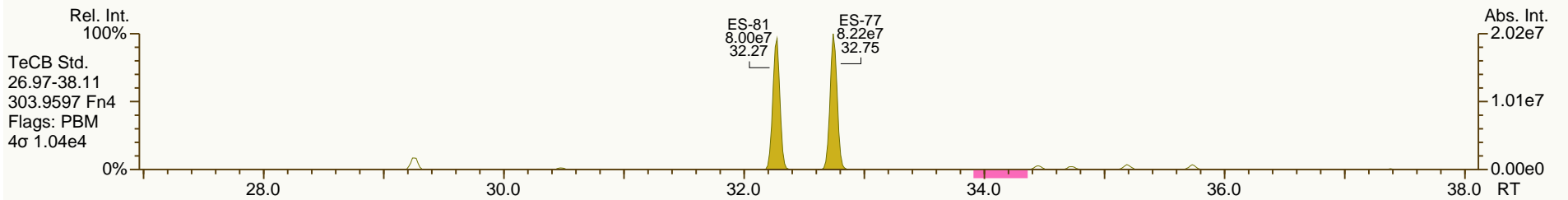
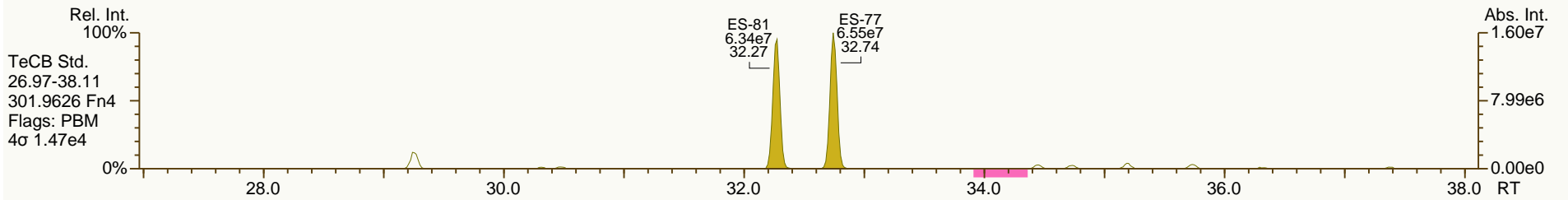
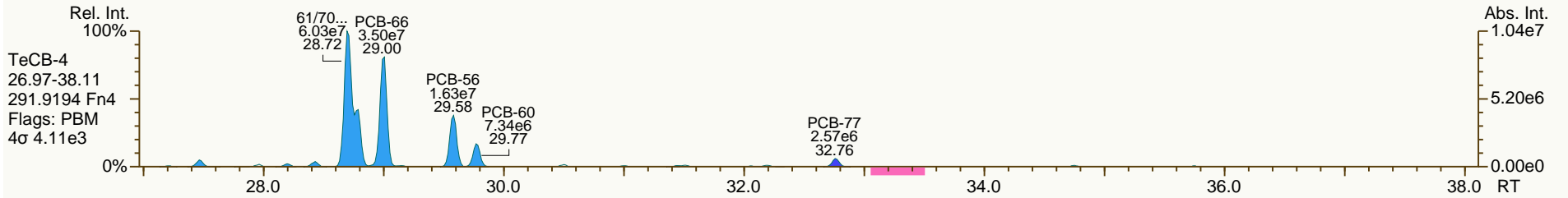
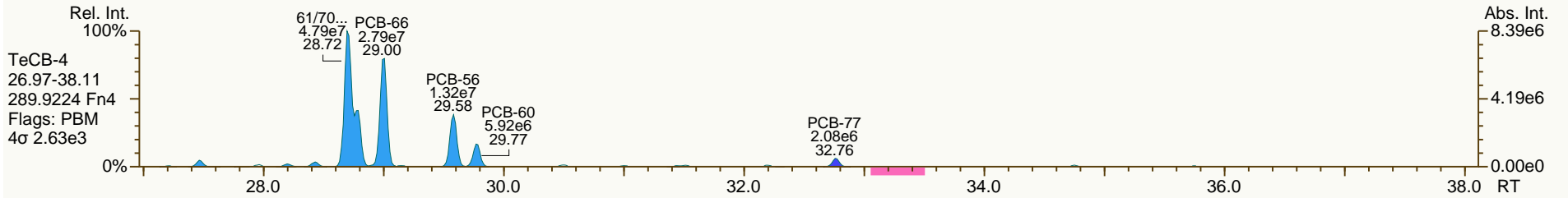
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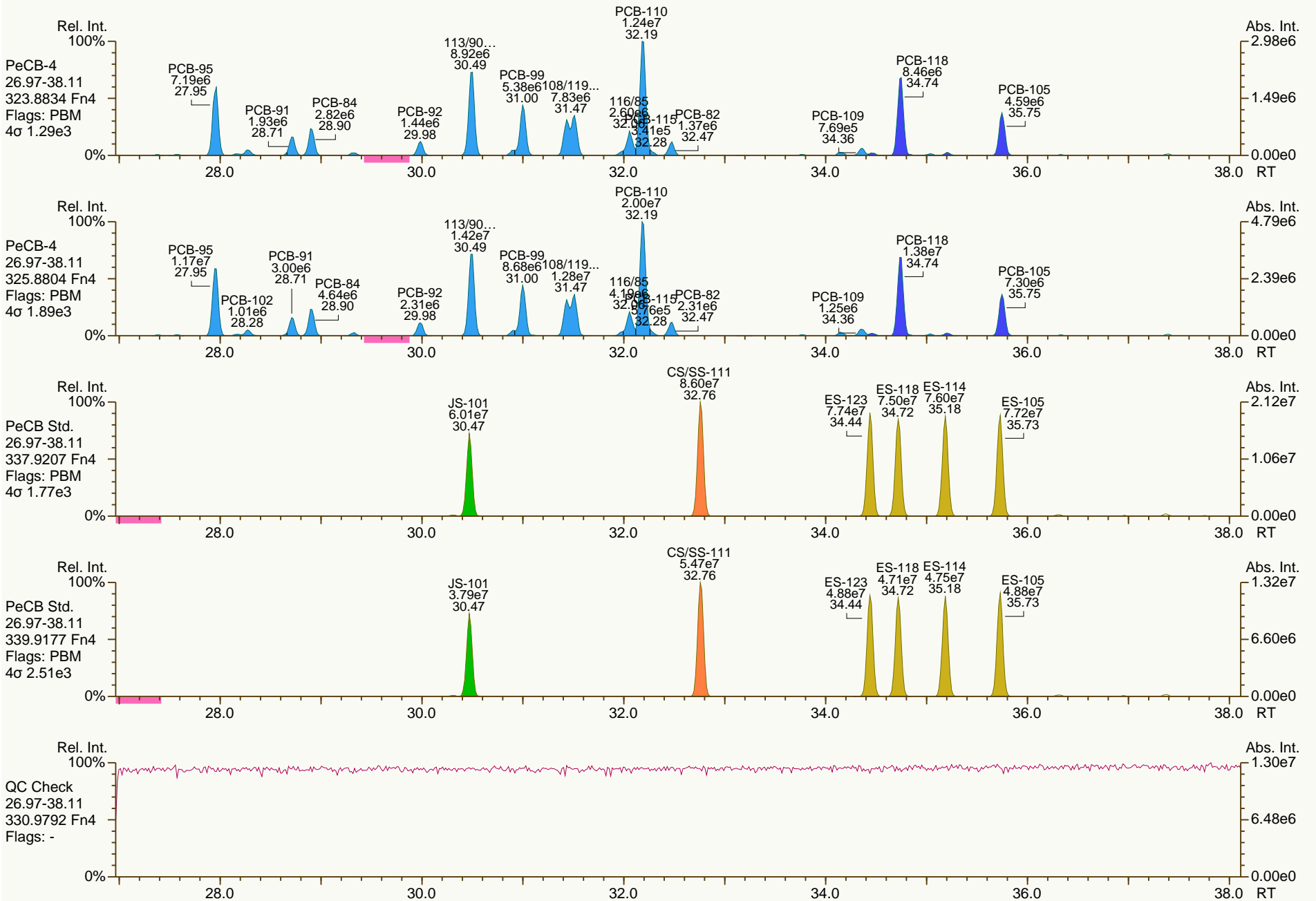
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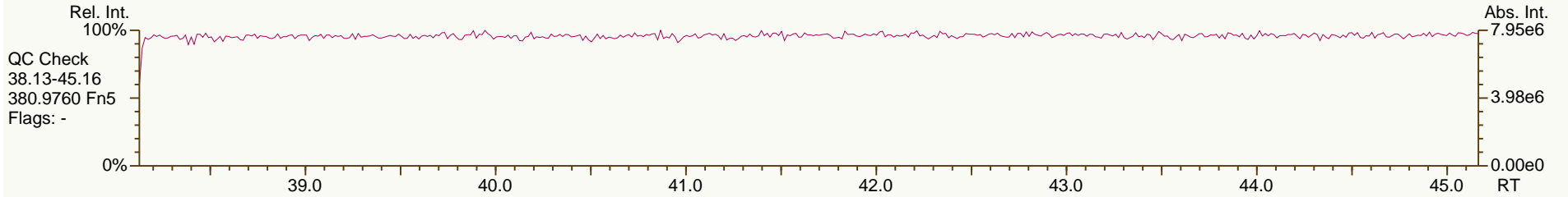
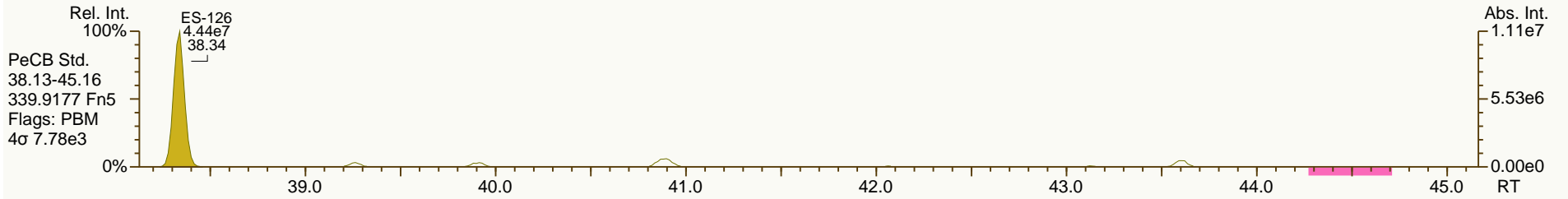
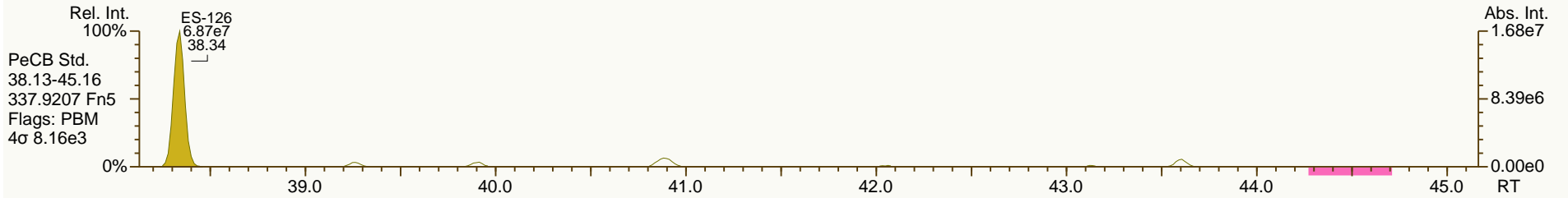
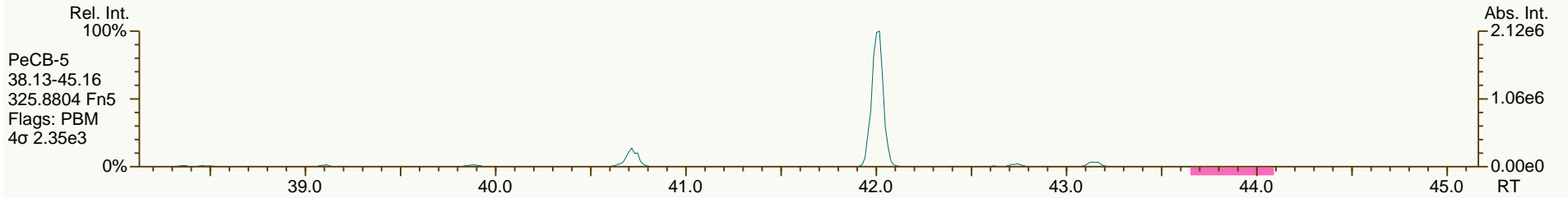
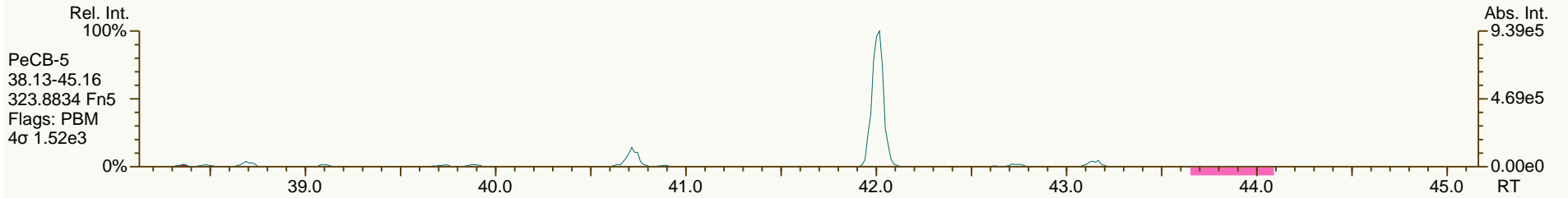
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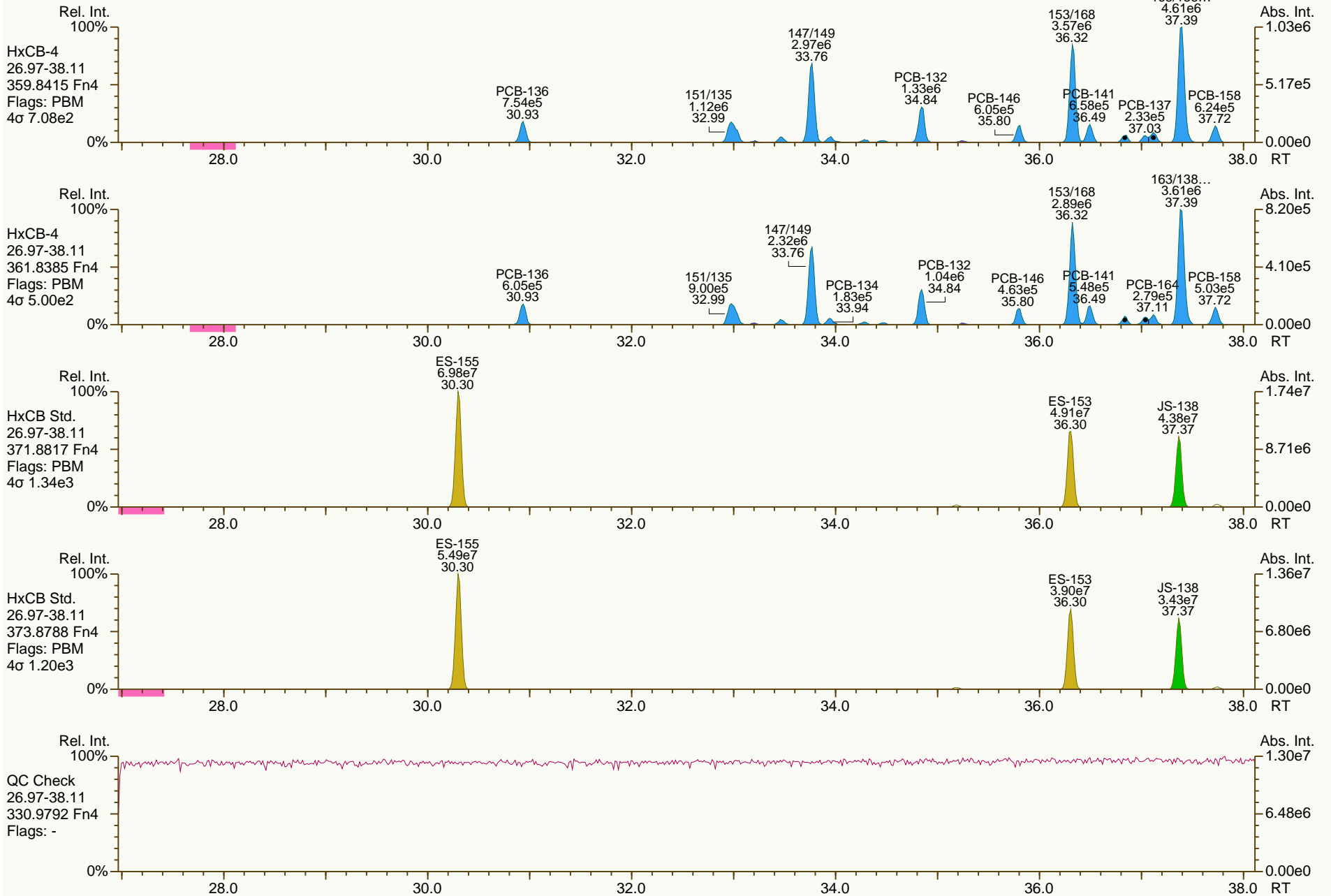
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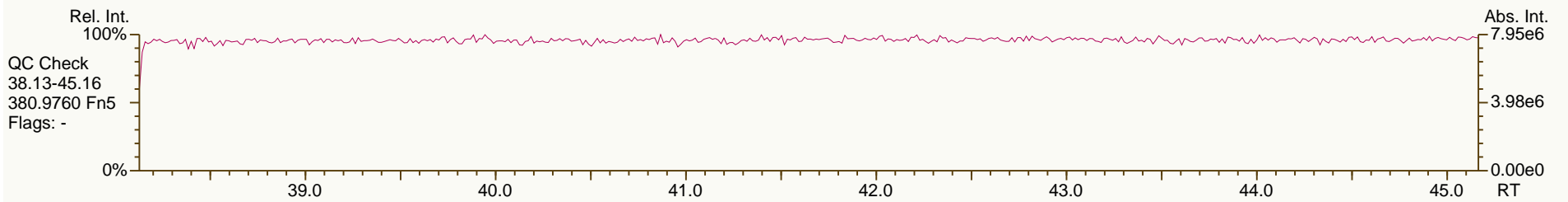
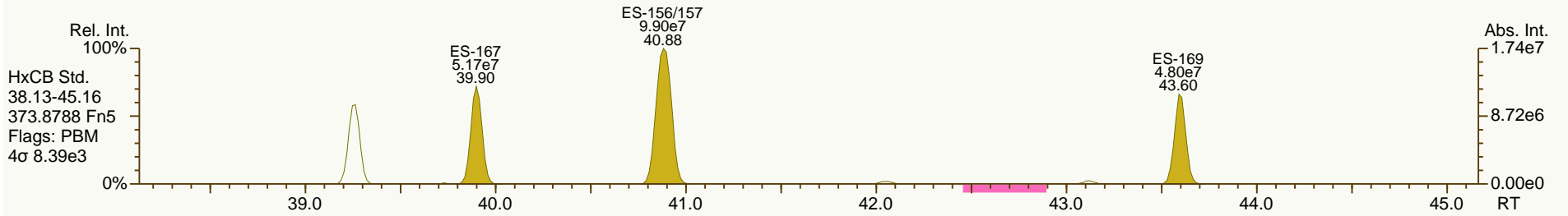
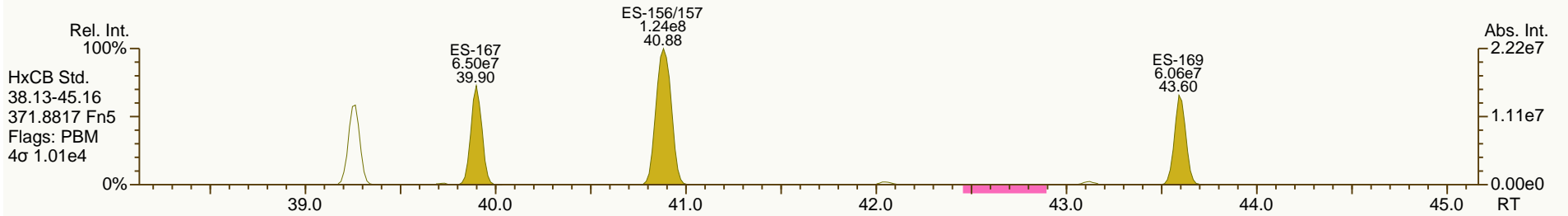
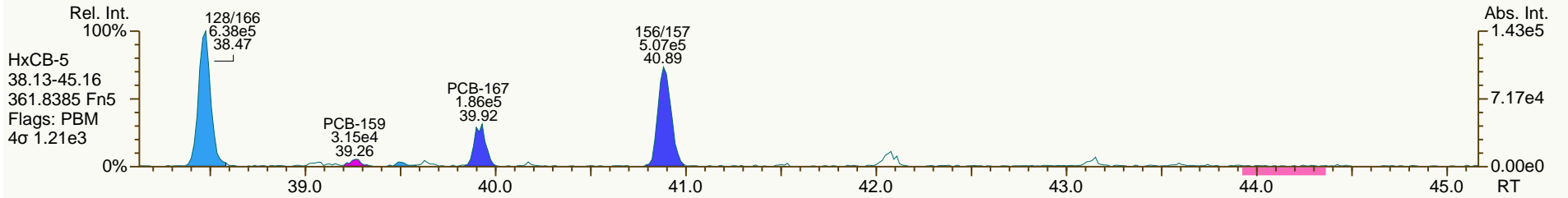
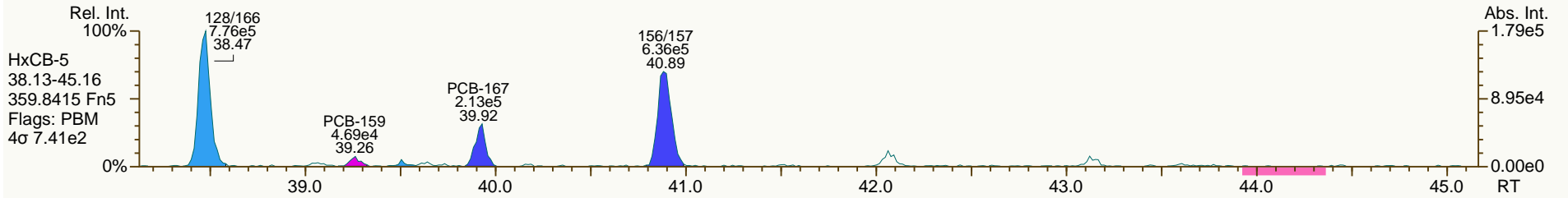
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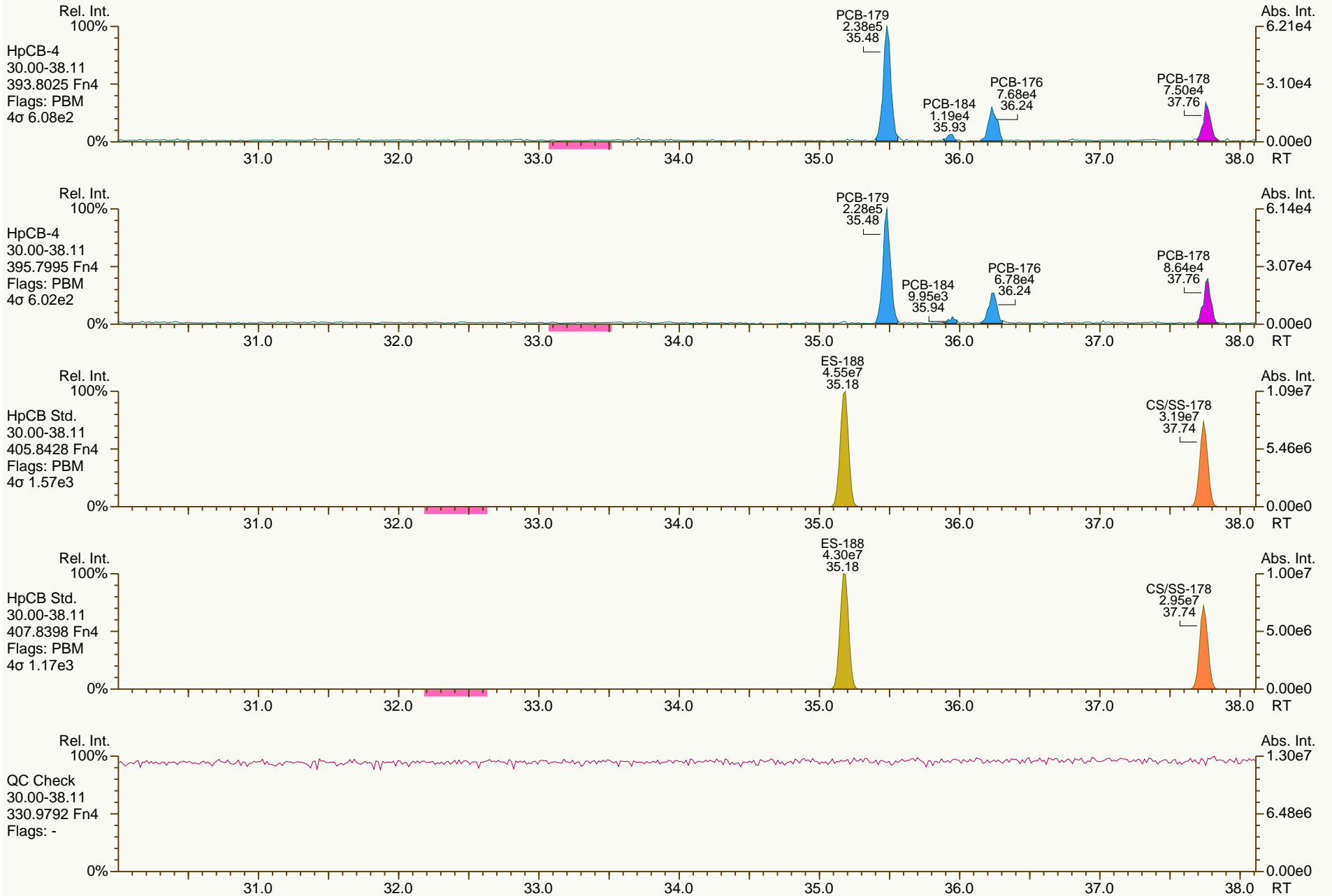




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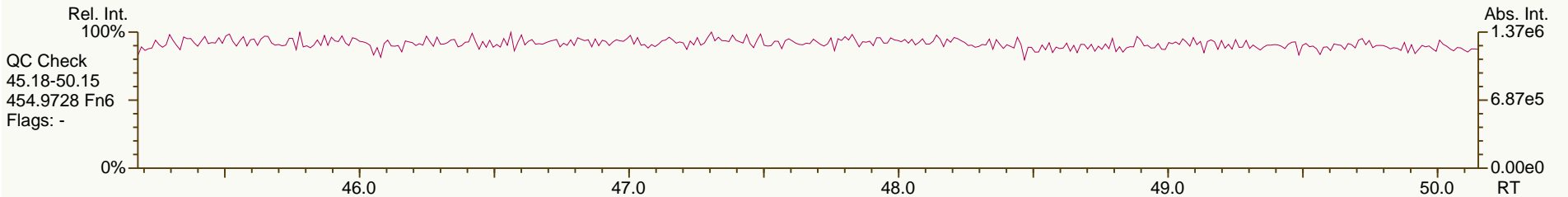
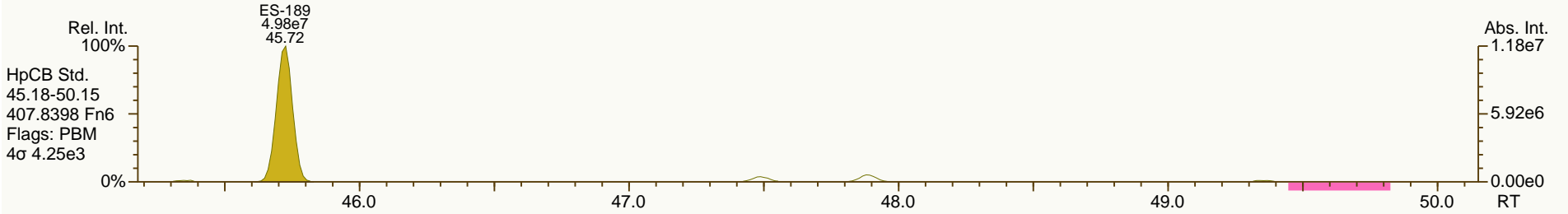
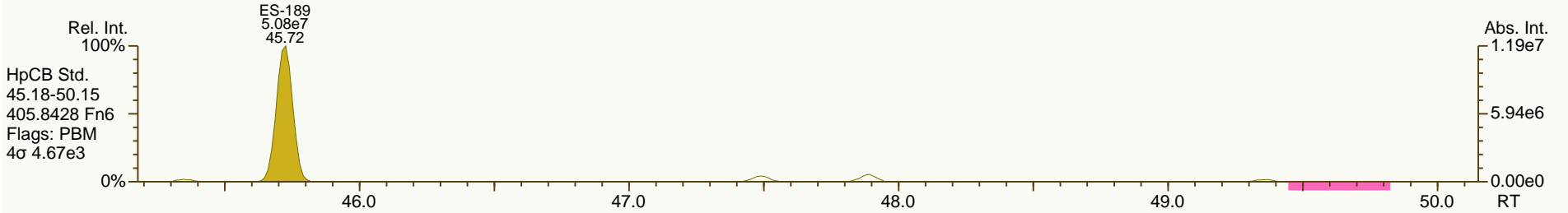
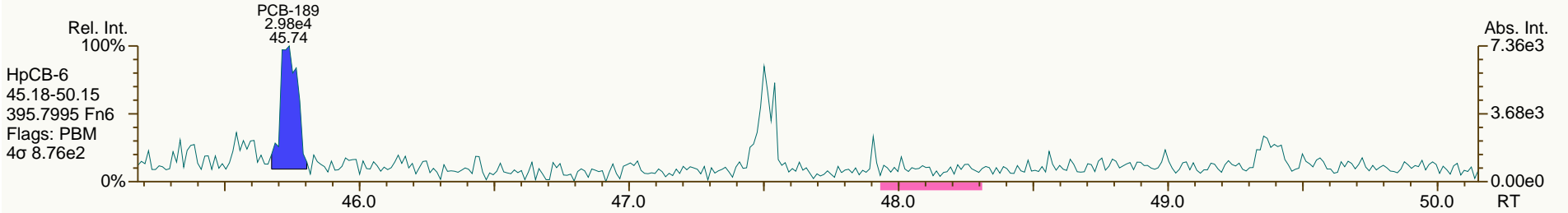
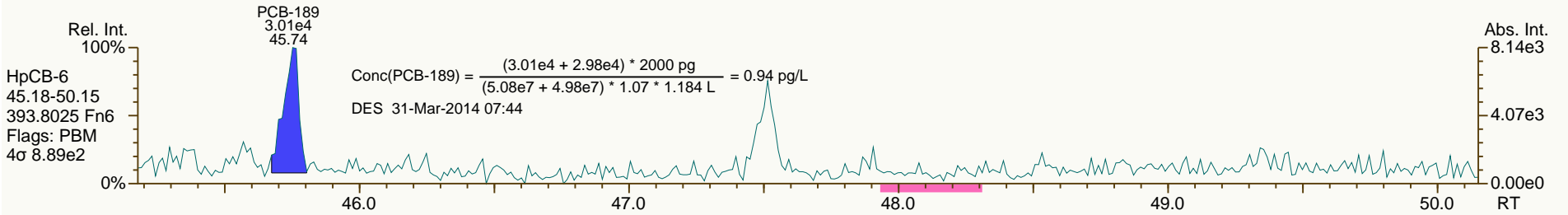
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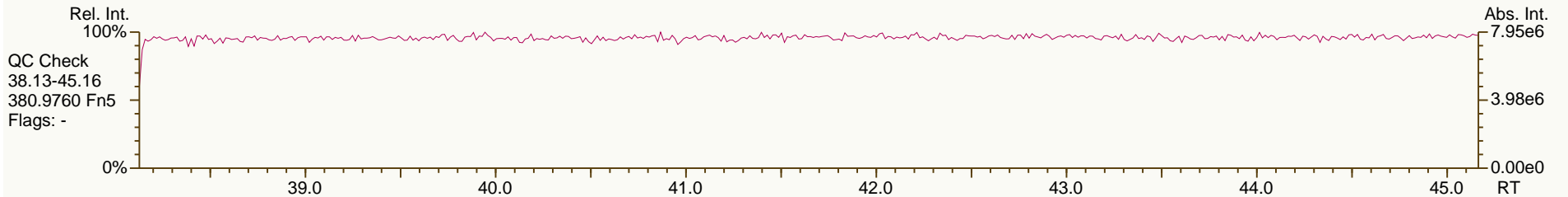
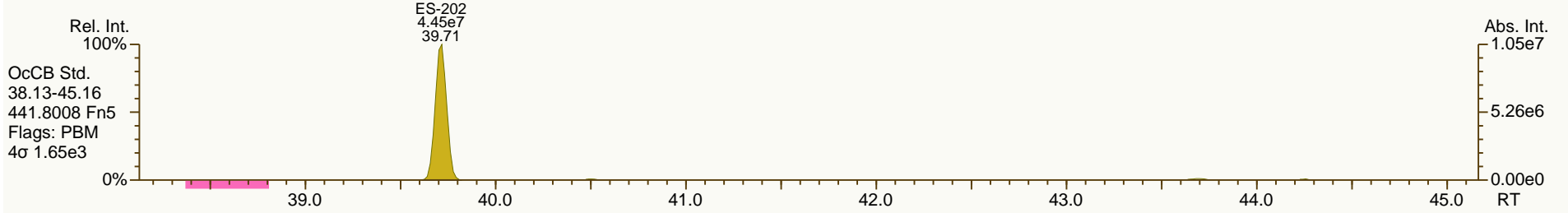
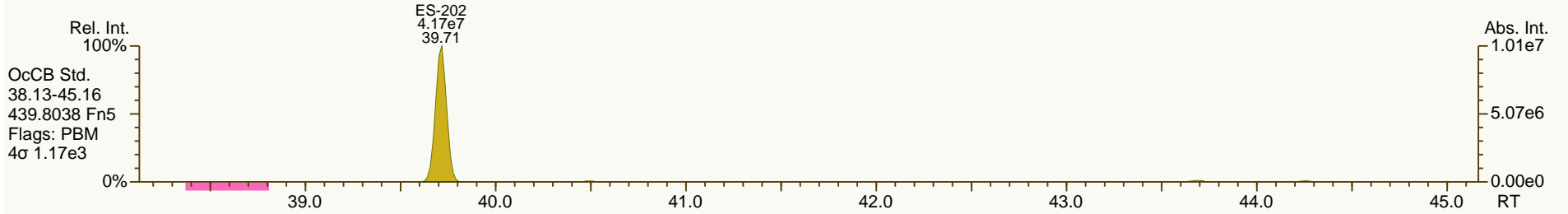
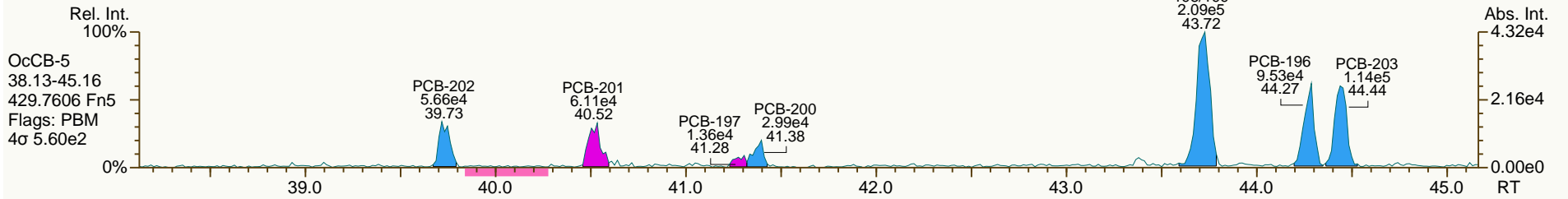
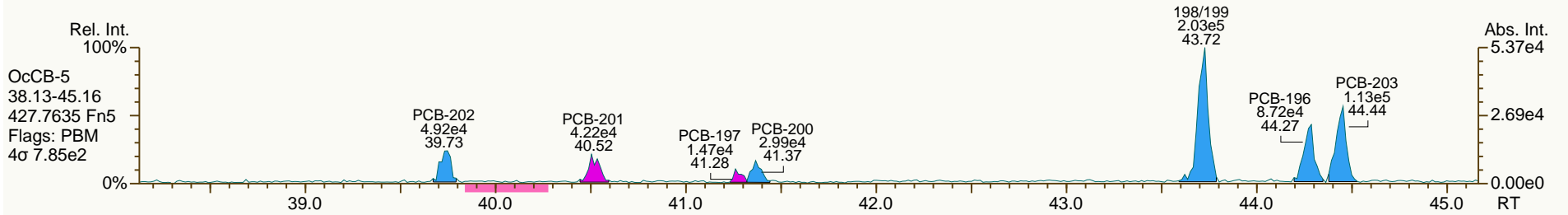
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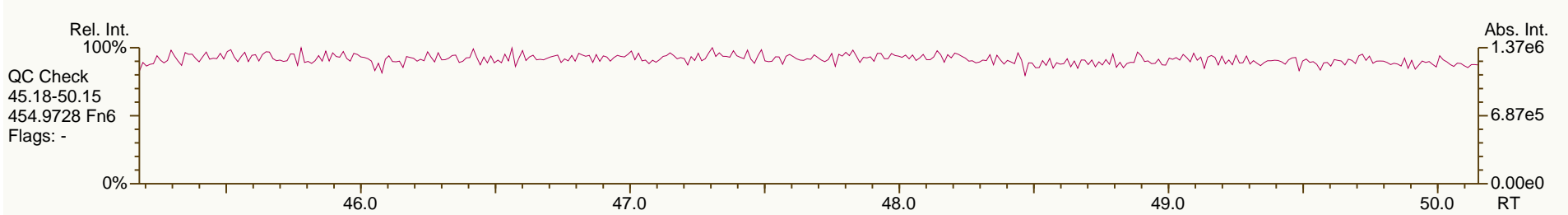
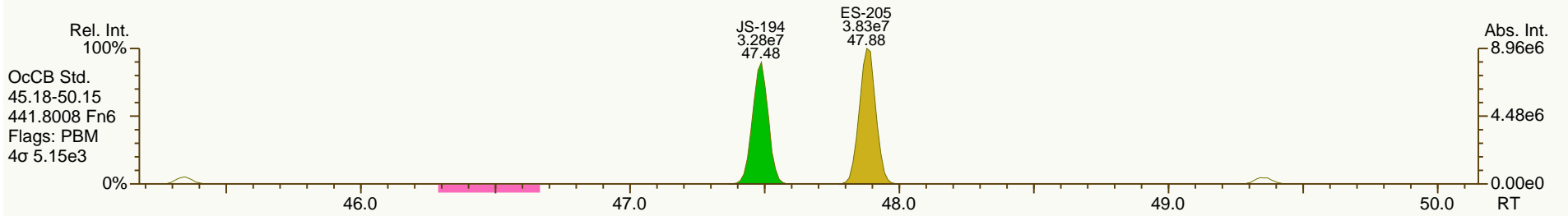
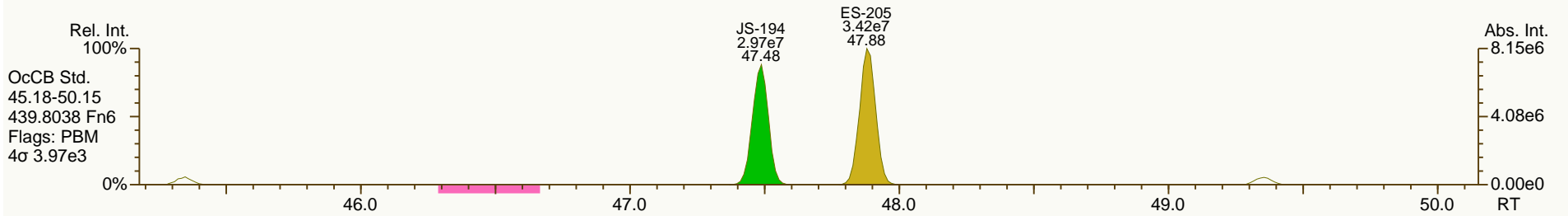
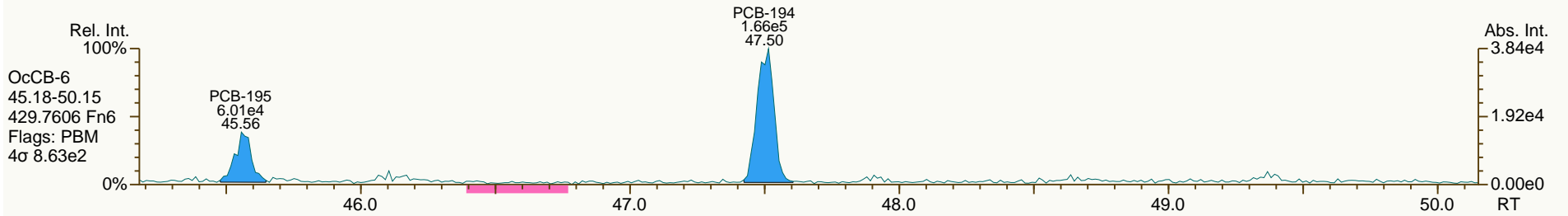
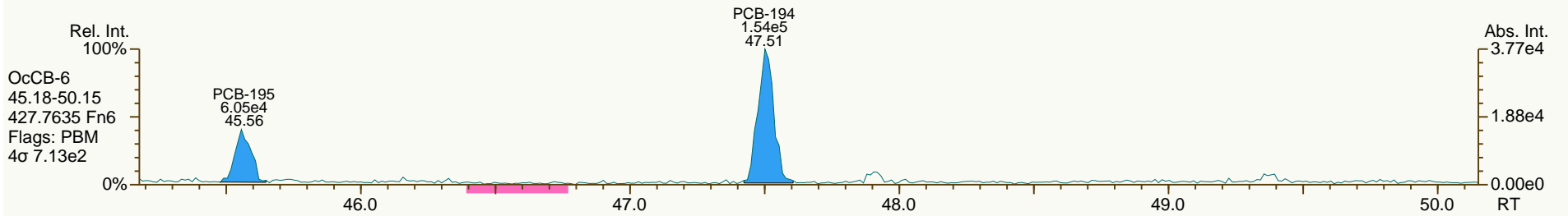
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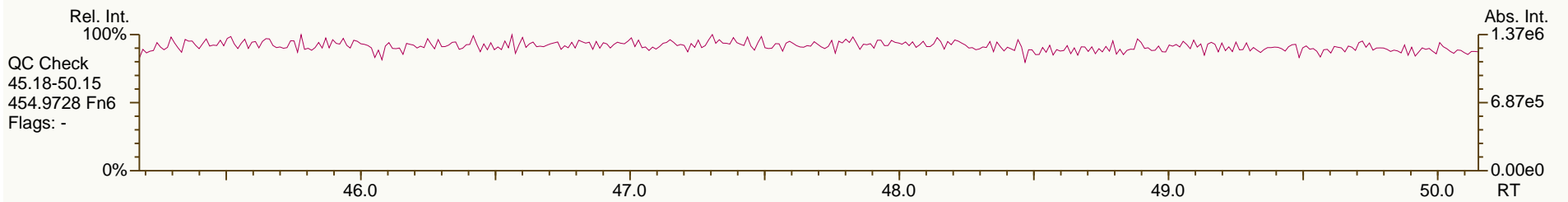
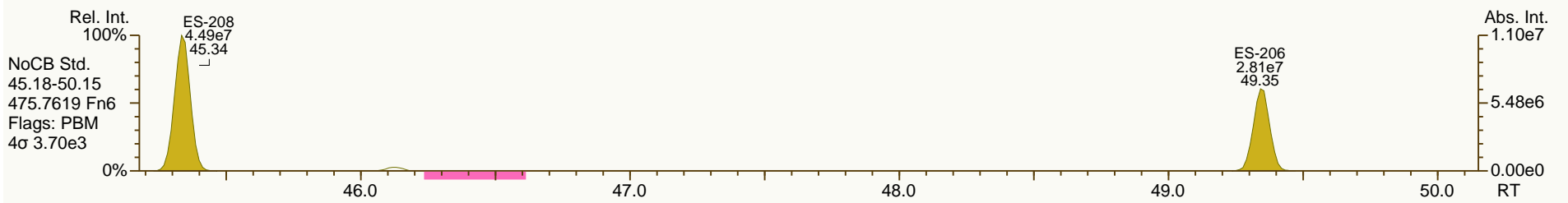
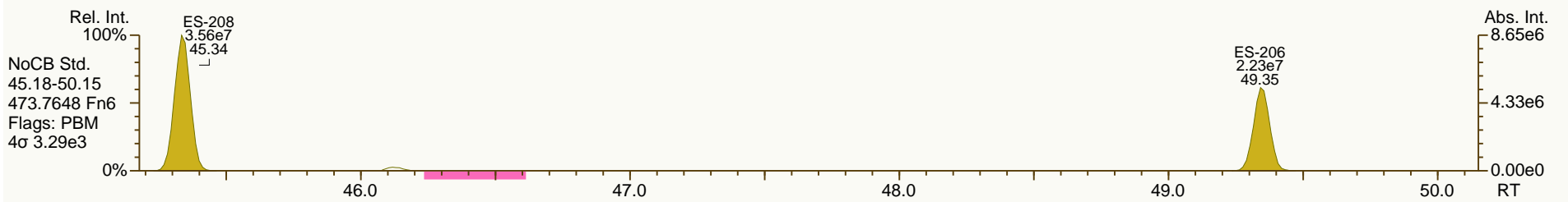
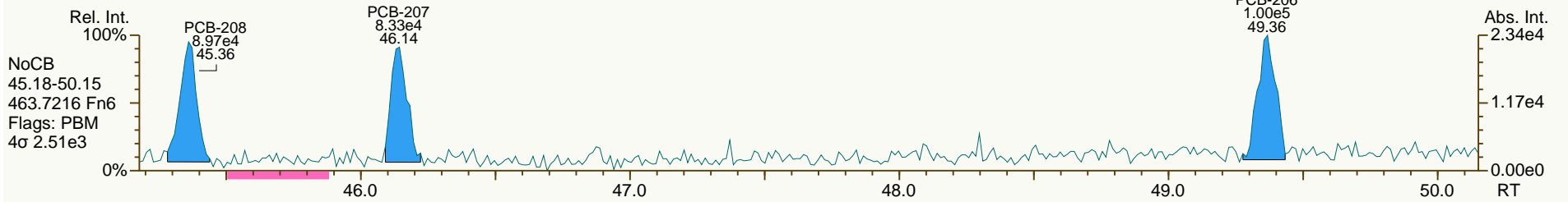
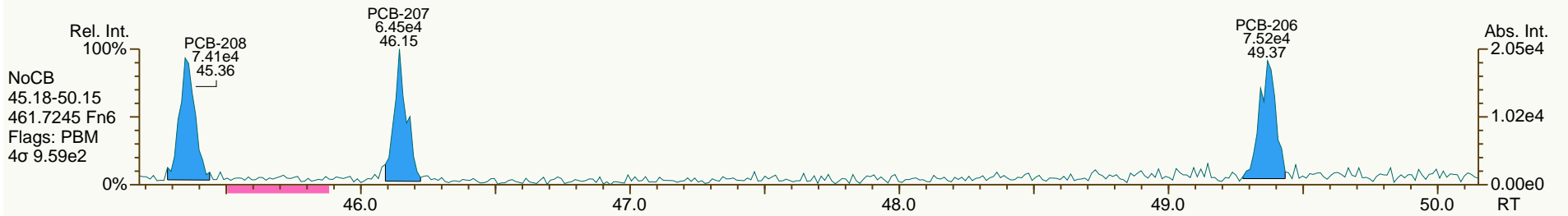
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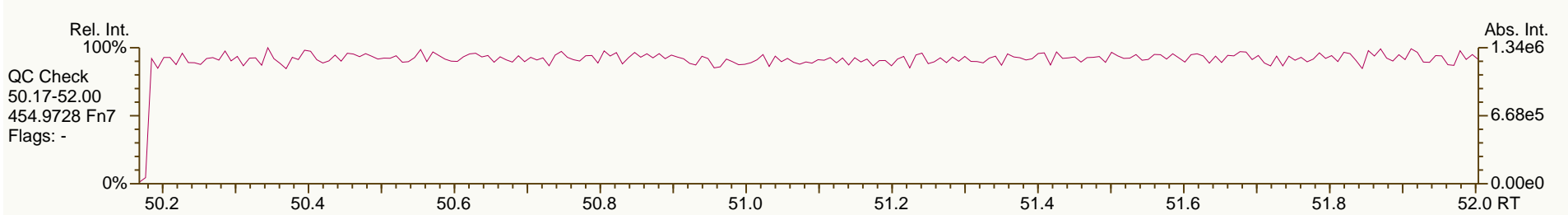
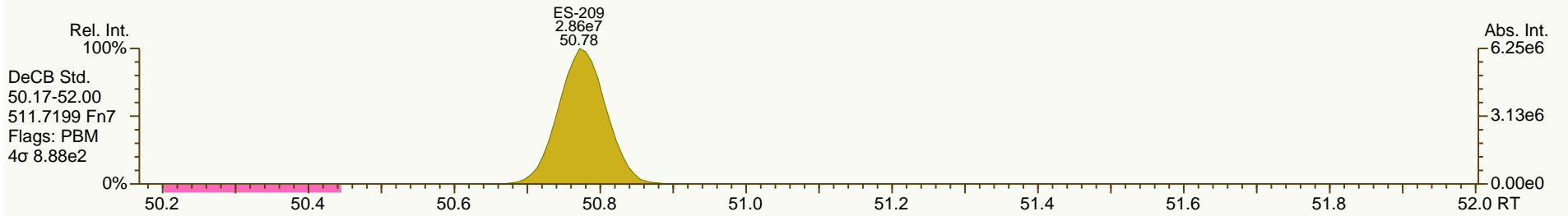
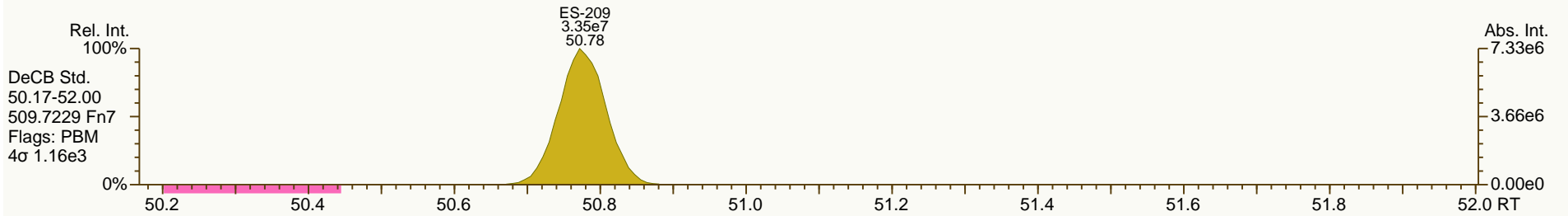
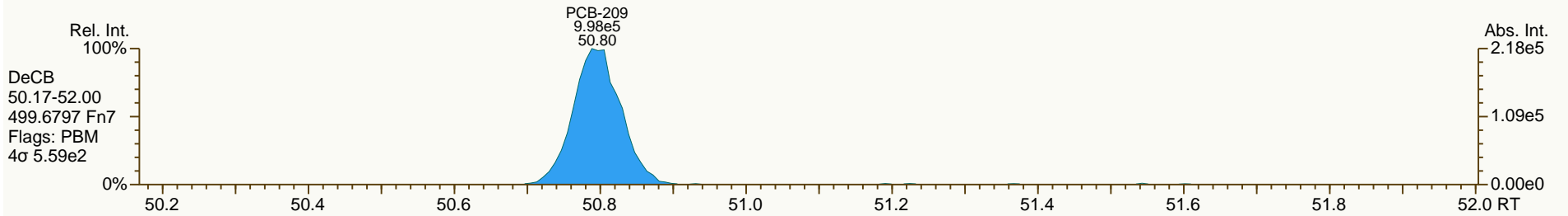
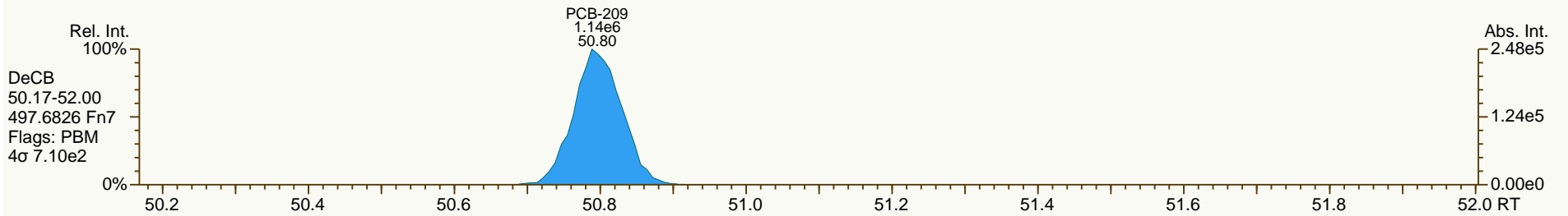
Acq: 28-Mar-2014 20:40:49  
 User: LKB Datafile: 140328X11



SGS ID: A6517\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB081\_A-2SWMID-140315-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 68

Acq: 28-Mar-2014 20:40:49  
 User: LKB Datafile: 140328X11



## SGS Analytical Perspectives — Run Log

Project: A6517\_11903\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
7	140328X07	Tray1:03	CS3_140328_PCB_XB	1.00	SIL 13-79-3	LKB, DES	740-668	28-Mar-2014	17:00:58
8	140328X08	Tray1:76	OPR1_11903_PCB-RJ2	1.00	0_11903_OPR001	LKB, DES	662-053	28-Mar-2014	17:55:43
9	140328X09	Tray1:02	SBS_140328_PCB_XC	1.00	SIL 13-42-1	LKB, DES	100-145	28-Mar-2014	18:50:44
10	140328X10	Tray1:77	MB1_11903_PCB_TLX-RJ2	1.00	Method Blank	LKB, DES	680-324	28-Mar-2014	19:45:47
11	140328X11	Tray1:78	A6517_11903_PCB_001-RJ	1.18	PB081_A-2SWMID-140315-N	LKB, DES	544-381	28-Mar-2014	20:40:49



PCB QC Summary		SGS Environmental Services			Processed: 31-Mar-2014 07:25		
Lab ID:	CS3_140328_PCB_XB						
Acquired:	28-MAR-2014 17:00			ICAL: MM7_PCB_10292013_20DEC2013			
Datafile:	140328X07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.78	7.66E+07	0.80 Y	1.15	1.20	3.8%	
PCB-81 344'5'-TeCB	32.30	7.45E+07	0.80 Y	1.12	1.19	6.0%	
PCB-105 233'44'-PeCB	35.76	6.19E+07	0.62 Y	1.11	1.13	1.1%	
PCB-114 2344'5'-PeCB	35.22	6.65E+07	0.61 Y	1.20	1.21	0.2%	
PCB-118 23'44'5'-PeCB	34.75	6.38E+07	0.62 Y	1.19	1.19	0.4%	
PCB-123 23'44'5'-PeCB	34.47	6.63E+07	0.62 Y	1.21	1.22	0.9%	
PCB-126 33'44'5'-PeCB	38.37	5.91E+07	0.65 Y	1.11	1.21	8.9%	
PCB-156/157 ...-HxCB	40.91	1.04E+08	1.23 Y	1.10	1.11	0.8%	
PCB-167 23'44'55'-HxCB	39.93	5.82E+07	1.22 Y	1.16	1.17	0.8%	
PCB-169 33'44'55'-HxCB	43.62	5.35E+07	1.25 Y	1.12	1.15	1.9%	
PCB-189 233'44'55'-HpCB	45.75	5.42E+07	1.06 Y	1.07	1.09	1.9%	
PCB-209 DeCB	50.81	3.80E+07	1.18 Y	1.11	1.08	-3.4%	
ES PCB-1	11.87	2.09E+08	3.25 Y	1.19	1.09	-8.9%	
ES PCB-3	14.16	1.94E+08	3.26 Y	1.09	1.01	-7.2%	
ES PCB-4	14.41	1.09E+08	1.61 Y	0.52	0.57	8.7%	
ES PCB-15	20.11	2.07E+08	1.57 Y	1.04	1.08	3.3%	
ES PCB-19	17.49	1.01E+08	1.06 Y	0.51	0.53	3.8%	
ES PCB-37	26.43	1.51E+08	1.10 Y	1.66	1.51	-9.1%	
ES PCB-54	20.40	1.00E+08	0.79 Y	0.86	1.00	16.4%	
ES PCB-77	32.76	1.28E+08	0.80 Y	1.38	1.28	-7.3%	
ES PCB-81	32.28	1.26E+08	0.80 Y	1.37	1.26	-8.0%	
ES PCB-104	25.37	8.98E+07	1.58 Y	0.80	0.99	22.9%	
ES PCB-105	35.74	1.10E+08	1.59 Y	1.20	1.21	0.6%	
ES PCB-114	35.20	1.10E+08	1.58 Y	1.22	1.21	-0.5%	
ES PCB-118	34.73	1.07E+08	1.56 Y	1.16	1.17	1.4%	
ES PCB-123	34.45	1.09E+08	1.59 Y	1.19	1.19	0.6%	
ES PCB-126	38.35	9.80E+07	1.54 Y	1.03	1.08	4.8%	
ES PCB-153	36.32	7.78E+07	1.26 Y	1.11	1.13	1.3%	
ES PCB-155	30.32	1.09E+08	1.24 Y	1.59	1.58	-0.4%	
ES PCB-156/157	40.89	1.89E+08	1.27 Y	1.60	1.37	-14.4%	
ES PCB-167	39.91	9.94E+07	1.26 Y	1.67	1.44	-13.6%	
ES PCB-169	43.61	9.33E+07	1.26 Y	1.56	1.35	-13.0%	
ES PCB-170	43.12	6.28E+07	1.07 Y	0.95	1.04	10.0%	
ES PCB-180	42.05	7.34E+07	1.07 Y	1.14	1.22	7.0%	
ES PCB-188	35.19	7.87E+07	1.07 Y	0.94	1.14	21.6%	
ES PCB-189	45.73	9.91E+07	1.03 Y	1.58	1.64	3.8%	
ES PCB-202	39.72	7.62E+07	0.92 Y	0.97	1.11	14.0%	
ES PCB-205	47.89	7.59E+07	0.89 Y	1.24	1.26	1.2%	
ES PCB-206	49.35	5.41E+07	0.80 Y	0.83	0.90	8.3%	
ES PCB-208	45.35	7.81E+07	0.80 Y	1.17	1.30	10.3%	
ES PCB-209	50.78	7.06E+07	1.18 Y	1.11	1.17	5.6%	

PCB QC Summary		SGS Environmental Services		Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 17:00						
Datafile:	140328X07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.88	1.65E+08	1.09 Y	1.11	1.10	-1.4%	
SS PCB-111	32.77	1.11E+08	1.56 Y	1.03	1.02	-0.4%	
SS PCB-178	37.75	4.80E+07	1.07 Y	0.62	0.61	-1.6%	
CS PCB-28	22.88	1.65E+08	1.09 Y	1.85	1.65	-10.4%	
CS PCB-111	32.77	1.11E+08	1.56 Y	1.22	1.22	0.2%	
CS PCB-178	37.75	4.80E+07	1.07 Y	0.58	0.70	19.7%	
JS PCB-9	16.39	1.92E+08	1.56 Y		-	-	
JS PCB-52	24.50	9.99E+07	0.78 Y		-	-	
JS PCB-101	30.48	9.09E+07	1.59 Y		-	-	
JS PCB-138	37.38	6.89E+07	1.27 Y		-	-	
JS PCB-194	47.49	6.03E+07	0.89 Y		-	-	
PCB-1 2-MoCB	11.89	1.13E+08	3.21 Y	0.95	1.08	13.4%	
PCB-3 4-MoCB	14.17	1.11E+08	3.23 Y	1.01	1.15	13.6%	
PCB-4 22'-DiCB	14.43	6.43E+07	1.59 Y	1.23	1.18	-4.6%	
PCB-15 44'-DiCB	20.13	1.14E+08	1.63 Y	1.02	1.10	7.9%	
PCB-19 22'6'-TrCB	17.51	5.69E+07	1.05 Y	1.15	1.13	-1.7%	
PCB-37 344'-TrCB	26.45	9.31E+07	1.01 Y	1.08	1.23	14.4%	
PCB-54 22'66'-TeCB	20.42	6.47E+07	0.80 Y	1.35	1.29	-4.4%	
PCB-104 22'466'-PeCB	25.39	6.10E+07	0.63 Y	1.43	1.36	-5.2%	
PCB-155 22'44'66'-HxCB	30.34	6.76E+07	1.25 Y	1.26	1.24	-1.7%	
PCB-188 22'34'566'-HpCB	35.21	4.59E+07	1.06 Y	1.27	1.17	-8.0%	
PCB-202 22'33'55'66'-OcCB	39.75	3.84E+07	0.91 Y	1.05	1.01	-4.3%	
PCB-205 233'44'55'6'-OcCB	47.91	3.93E+07	0.91 Y	1.06	1.03	-2.4%	
PCB-208 22'33'455'66'-NoCB	45.37	4.33E+07	0.78 Y	1.12	1.11	-1.3%	
PCB-206 22'33'44'55'6'-NoCB	49.37	2.98E+07	0.78 Y	1.11	1.10	-1.3%	
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				-		-	
				-		-	
				-		-	
				-		-	

PCB QC Summary - Ax2 Detail				Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 17:00						
Datafile:	140328X07						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.89	1.13E+08	3.21 Y	0.95	-	-	-
PCB-2 3-MoCB	13.99	1.13E+08	3.21 Y	1.03	1.17	12.7%	
PCB-3 4-MoCB	14.17	1.11E+08	3.23 Y	1.01	-	-	
PCB-4 22'-DiCB	14.43	6.43E+07	1.59 Y	1.23	-	-	
PCB-10 26-DiCB	14.61	1.05E+08	1.59 Y	1.98	1.92	-2.9%	
PCB-9 25-DiCB	16.40	1.00E+08	1.64 Y	0.95	0.97	2.3%	
PCB-7 24-DiCB	16.57	1.14E+08	1.64 Y	1.05	1.10	5.0%	
PCB-6 23'-DiCB	16.80	1.06E+08	1.63 Y	1.00	1.03	3.1%	
PCB-5 23-DiCB	17.10	1.07E+08	1.64 Y	1.00	1.03	3.0%	
PCB-8 24'-DiCB	17.22	1.07E+08	1.64 Y	1.03	1.04	0.5%	
PCB-14 35-DiCB	18.77	1.27E+08	1.64 Y	1.18	1.23	4.2%	
PCB-11 33'-DiCB	19.55	1.10E+08	1.64 Y	1.01	1.06	5.0%	
PCB-13/12 34'/34-DiCB	19.84	2.18E+08	1.64 Y	0.99	1.06	6.7%	
PCB-15 44'-DiCB	20.13	1.14E+08	1.63 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.51	5.69E+07	1.05 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.27	1.58E+08	1.05 Y	1.54	1.56	1.5%	
PCB-17 22'4-TrCB	19.67	6.72E+07	1.05 Y	1.31	1.33	1.9%	
PCB-27 23'6-TrCB	19.86	9.18E+07	1.05 Y	1.82	1.82	0.0%	
PCB-24 236-TrCB	19.99	8.77E+07	1.04 Y	1.72	1.74	0.7%	
PCB-16 22'3-TrCB	20.09	5.00E+07	1.05 Y	1.01	0.99	-1.7%	
PCB-32 24'6-TrCB	20.57	9.76E+07	1.05 Y	1.92	1.93	0.7%	
PCB-34 23'5'-TrCB	21.72	9.42E+07	1.02 Y	1.14	1.25	10.0%	
PCB-23 235-TrCB	21.87	9.55E+07	1.01 Y	1.16	1.27	9.5%	
PCB-26/29 23'5/245-TrCB	22.15	1.93E+08	1.01 Y	1.17	1.28	9.4%	
PCB-25 23'4-TrCB	22.35	9.53E+07	1.01 Y	1.16	1.26	9.1%	
PCB-31 24'5-TrCB	22.63	1.01E+08	1.01 Y	1.23	1.34	9.7%	
PCB-28/20 244'/233'-TrCB	22.91	1.89E+08	1.01 Y	1.13	1.26	10.9%	
PCB-21/33 234/23'4'-TrCB	23.09	1.94E+08	1.01 Y	1.17	1.28	9.3%	
PCB-22 234'-TrCB	23.47	9.05E+07	1.01 Y	1.08	1.20	11.2%	
PCB-36 33'5-TrCB	24.85	9.95E+07	1.02 Y	1.17	1.32	12.7%	
PCB-39 34'5-TrCB	25.17	1.02E+08	1.01 Y	1.21	1.36	12.0%	
PCB-38 345-TrCB	25.70	9.20E+07	1.02 Y	1.10	1.22	10.4%	
PCB-35 33'4-TrCB	26.09	8.97E+07	1.01 Y	1.04	1.19	14.4%	
PCB-37 344'-TrCB	26.45	9.31E+07	1.01 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.42	6.47E+07	0.80 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.40	1.16E+08	0.79 Y	0.88	0.92	5.2%	
PCB-45 22'36'-TeCB	22.99	5.28E+07	0.78 Y	0.77	0.84	9.5%	
PCB-51 22'46'-TeCB	23.06	5.63E+07	0.79 Y	0.86	0.90	4.2%	
PCB-46 22'36'-TeCB	23.27	4.62E+07	0.79 Y	0.70	0.74	5.3%	
PCB-52 22'55'-TeCB	24.52	5.64E+07	0.79 Y	0.84	0.90	6.5%	
PCB-73 23'5'6'-TeCB	24.65	7.51E+07	0.79 Y	1.11	1.19	7.4%	

Lab ID: - Ax2 Detail			Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	28-MAR-2014 17:00					
Datafile:	140328X07					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.75	4.74E+07	0.79 Y	0.71	0.75	6.2%
PCB-69/49 23'46/22'45'-TeCB	24.94	1.38E+08	0.79 Y	1.02	1.10	7.1%
PCB-48 22'45'-TeCB	25.22	5.68E+07	0.79 Y	0.84	0.90	7.8%
PCB-44/47/65 ...-TeCB	25.44	1.82E+08	0.79 Y	0.90	0.96	6.7%
PCB-59/62/75 ...-TeCB	25.72	2.36E+08	0.78 Y	1.17	1.25	7.5%
PCB-42 22'34'-TeCB	25.88	5.15E+07	0.79 Y	0.76	0.82	7.4%
PCB-41 22'34'-TeCB	26.22	4.79E+07	0.77 Y	0.69	0.76	9.7%
PCB-71/40 23'4'6/22'33'-TeCB	26.31	1.15E+08	0.79 Y	0.86	0.92	6.6%
PCB-64 23'46'-TeCB	26.51	8.34E+07	0.79 Y	1.22	1.33	8.7%
PCB-72 23'55'-TeCB	27.22	7.94E+07	0.80 Y	1.21	1.26	4.5%
PCB-68 23'45'-TeCB	27.48	8.48E+07	0.79 Y	1.28	1.35	5.7%
PCB-57 23'35'-TeCB	27.85	7.66E+07	0.80 Y	1.16	1.22	4.8%
PCB-58 23'35'-TeCB	28.05	8.01E+07	0.81 Y	1.18	1.27	8.1%
PCB-67 23'45'-TeCB	28.21	8.33E+07	0.79 Y	1.26	1.33	5.3%
PCB-63 23'45'-TeCB	28.44	8.78E+07	0.80 Y	1.30	1.40	7.7%
PCB-61/70/74/76 ...-TeCB	28.73	3.14E+08	0.79 Y	1.20	1.25	4.1%
PCB-66 23'44'-TeCB	29.01	7.41E+07	0.80 Y	1.10	1.18	7.0%
PCB-55 23'34'-TeCB	29.16	7.43E+07	0.81 Y	1.12	1.18	5.5%
PCB-56 23'34'-TeCB	29.59	7.33E+07	0.80 Y	1.11	1.17	5.1%
PCB-60 23'44'-TeCB	29.79	7.55E+07	0.80 Y	1.14	1.20	5.8%
PCB-80 33'55'-TeCB	30.11	8.65E+07	0.80 Y	1.31	1.38	4.9%
PCB-79 33'45'-TeCB	31.43	8.62E+07	0.81 Y	1.31	1.37	5.0%
PCB-78 33'45'-TeCB	31.92	7.21E+07	0.80 Y	1.06	1.15	8.0%
PCB-104 22'466'-PeCB	25.39	6.10E+07	0.63 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.71	5.31E+07	0.63 Y	1.23	1.18	-3.7%
PCB-103 22'45'6'-PeCB	27.40	5.06E+07	0.61 Y	0.93	0.93	0.2%
PCB-94 22'356'-PeCB	27.59	4.28E+07	0.62 Y	0.80	0.79	-1.4%
PCB-95 22'35'6'-PeCB	27.97	4.68E+07	0.62 Y	0.87	0.86	-0.5%
PCB-100/93 22'44'6/22'356'-PeC	28.18	9.32E+07	0.61 Y	0.86	0.86	-0.6%
PCB-102 22'456'-PeCB	28.30	5.44E+07	0.62 Y	0.97	1.00	3.5%
PCB-98 22'34'6'-PeCB	28.36	4.00E+07	0.63 Y	0.76	0.74	-2.8%
PCB-88 22'346'-PeCB	28.66	4.22E+07	0.62 Y	0.80	0.78	-2.6%
PCB-91 22'34'6'-PeCB	28.73	5.00E+07	0.62 Y	0.94	0.92	-2.5%
PCB-84 22'33'6'-PeCB	28.92	3.87E+07	0.62 Y	0.72	0.71	-0.3%
PCB-89 22'346'-PeCB	29.34	4.12E+07	0.62 Y	0.76	0.76	-0.6%
PCB-121 23'45'6'-PeCB	29.68	6.49E+07	0.61 Y	1.20	1.20	-0.3%
PCB-92 22'355'-PeCB	30.00	4.40E+07	0.62 Y	0.82	0.81	-1.1%
PCB-113/90/101 ...-PeCB	30.48	1.56E+08	0.62 Y	0.99	0.96	-2.5%
PCB-83 22'33'5'-PeCB	30.92	3.78E+07	0.61 Y	0.71	0.70	-2.6%

Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 17:00						
Datafile:	140328X07						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	31.01	4.87E+07	0.63 Y	0.92	0.90		-2.6%
PCB-112 233'56-PeCB	31.11	6.34E+07	0.62 Y	1.17	1.17		-0.1%
PCB-108/119/86/97/125...-PeCB	31.46	3.18E+08	0.62 Y	0.98	0.98		-0.3%
PCB-117 234'56-PeCB	32.00	6.39E+07	0.61 Y	1.14	1.18		3.4%
PCB-116/85 23456/22'344'-PeCB	32.09	9.50E+07	0.62 Y	0.94	0.88		-6.9%
PCB-110 233'4'6-PeCB	32.20	5.95E+07	0.61 Y	1.12	1.10		-2.0%
PCB-115 2344'6-PeCB	32.29	6.28E+07	0.62 Y	1.16	1.16		-0.2%
PCB-82 22'33'4-PeCB	32.49	3.73E+07	0.62 Y	0.70	0.69		-1.3%
PCB-111 233'55'-PeCB	32.80	6.55E+07	0.62 Y	1.22	1.21		-1.2%
PCB-120 23'455'-PeCB	33.19	6.64E+07	0.62 Y	1.21	1.22		1.0%
PCB-107/124 ...-PeCB	34.16	1.20E+08	0.62 Y	1.10	1.11		0.9%
PCB-109 233'46-PeCB	34.37	6.72E+07	0.62 Y	1.25	1.24		-1.2%
PCB-106 233'45-PeCB	34.59	6.01E+07	0.62 Y	1.11	1.11		0.2%
PCB-122 233'4'5'-PeCB	35.05	5.70E+07	0.61 Y	0.99	1.03		4.0%
PCB-127 33'455'-PeCB	36.99	6.14E+07	0.62 Y	1.10	1.12		1.9%
PCB-155 22'44'66'-HxCB	30.34	6.76E+07	1.25 Y	1.26	-		-
PCB-152 22'3566'-HxCB	30.50	6.21E+07	1.26 Y	1.17	1.14		-3.0%
PCB-150 22'34'66'-HxCB	30.64	6.30E+07	1.27 Y	1.18	1.15		-1.8%
PCB-136 22'33'66'-HxCB	30.95	5.77E+07	1.27 Y	1.07	1.06		-0.7%
PCB-145 22'3466'-HxCB	31.22	5.97E+07	1.27 Y	1.11	1.09		-1.9%
PCB-148 22'34'56'-HxCB	32.49	4.47E+07	1.28 Y	1.18	1.15		-2.9%
PCB-151/135 ...-HxCB	33.01	8.49E+07	1.26 Y	1.14	1.09		-4.1%
PCB-154 22'44'56'-HxCB	33.22	5.00E+07	1.27 Y	1.34	1.29		-4.2%
PCB-144 22'345'6-HxCB	33.48	4.43E+07	1.26 Y	1.18	1.14		-3.8%
PCB-147/149 ...-HxCB	33.78	8.67E+07	1.26 Y	1.18	1.11		-5.2%
PCB-134 22'33'56-HxCB	33.96	3.63E+07	1.25 Y	0.92	0.93		1.0%
PCB-143 22'3456'-HxCB	34.04	3.97E+07	1.28 Y	1.13	1.02		-9.5%
PCB-139/140 ...-HxCB	34.30	8.80E+07	1.27 Y	1.21	1.13		-6.1%
PCB-131 22'33'46-HxCB	34.48	3.79E+07	1.27 Y	1.03	0.98		-4.9%
PCB-142 22'3456-HxCB	34.62	3.69E+07	1.26 Y	0.99	0.95		-4.1%
PCB-132 22'33'46'-HxCB	34.85	3.85E+07	1.26 Y	1.03	0.99		-4.0%
PCB-133 22'33'55'-HxCB	35.26	4.08E+07	1.26 Y	1.13	1.05		-7.3%
PCB-165 233'55'6-HxCB	35.60	5.26E+07	1.26 Y	1.41	1.35		-3.9%
PCB-146 22'34'55'-HxCB	35.81	4.47E+07	1.27 Y	1.20	1.15		-4.3%
PCB-161 233'45'6-HxCB	35.93	5.73E+07	1.28 Y	1.52	1.47		-3.1%
PCB-153/168 ...-HxCB	36.36	1.10E+08	1.26 Y	1.46	1.42		-2.7%
PCB-141 22'3455'-HxCB	36.50	4.04E+07	1.26 Y	1.09	1.04		-4.6%
PCB-130 22'33'45'-HxCB	36.85	3.58E+07	1.27 Y	0.97	0.92		-5.4%
PCB-137 22'344'5-HxCB	37.05	4.33E+07	1.27 Y	1.16	1.11		-4.1%
PCB-164 233'4'5'6-HxCB	37.13	5.55E+07	1.26 Y	1.50	1.43		-4.7%
PCB-163/138/129 ...-HxCB	37.42	1.34E+08	1.26 Y	1.19	1.15		-3.7%

Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 07:25		
Lab ID:	CS3_140328_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	28-MAR-2014 17:00					
Datafile:	140328X07					
Name	RT	Response	RA		RRF	
PCB-160 233'456'-HxCB	37.56	5.40E+07	1.26 Y	1.52	1.39	-8.3%
PCB-158 233'44'6'-HxCB	37.74	5.96E+07	1.25 Y	1.66	1.53	-7.7%
PCB-128/166 ...-HxCB	38.47	8.97E+07	1.23 Y	0.90	0.90	0.4%
PCB-159 233'455'-HxCB	39.29	5.47E+07	1.23 Y	1.11	1.10	-1.3%
PCB-162 233'4'55'-HxCB	39.52	5.48E+07	1.24 Y	1.07	1.10	2.9%
PCB-188 22'34'566'-HpCB	35.21	4.59E+07	1.06 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.50	4.43E+07	1.05 Y	1.16	1.13	-3.0%
PCB-184 22'344'66'-HpCB	35.95	4.15E+07	1.06 Y	1.13	1.06	-6.5%
PCB-176 22'33'466'-HpCB	36.25	4.51E+07	1.06 Y	1.23	1.15	-7.1%
PCB-186 22'34566'-HpCB	36.65	4.21E+07	1.06 Y	1.13	1.07	-4.9%
PCB-178 22'33'55'6'-HpCB	37.77	3.04E+07	1.07 Y	0.84	0.77	-8.3%
PCB-175 22'33'45'6'-HpCB	38.32	3.94E+07	1.06 Y	1.07	1.07	0.0%
PCB-187 22'34'55'6'-HpCB	38.55	4.22E+07	1.05 Y	1.14	1.15	1.1%
PCB-182 22'344'56'-HpCB	38.72	4.32E+07	1.06 Y	1.18	1.18	0.2%
PCB-183 22'344'5'6'-HpCB	39.07	4.38E+07	1.05 Y	1.20	1.20	-0.8%
PCB-185 22'3455'6'-HpCB	39.16	4.05E+07	1.06 Y	1.06	1.10	4.1%
PCB-174 22'33'456'-HpCB	39.27	3.44E+07	1.05 Y	0.99	0.94	-5.3%
PCB-177 22'33'45'6'-HpCB	39.64	3.39E+07	1.04 Y	0.95	0.92	-2.9%
PCB-181 22'344'56'-HpCB	39.99	3.93E+07	1.04 Y	1.09	1.07	-1.6%
PCB-171/173 ...-HpCB	40.17	6.88E+07	1.05 Y	0.95	0.94	-1.1%
PCB-172 22'33'455'-HpCB	41.52	3.59E+07	1.06 Y	0.99	0.98	-1.1%
PCB-192 233'455'6'-HpCB	41.77	4.72E+07	1.04 Y	1.29	1.29	0.0%
PCB-180/193 ...-HpCB	42.04	9.13E+07	1.05 Y	1.26	1.24	-1.3%
PCB-191 233'44'5'6'-HpCB	42.37	5.07E+07	1.05 Y	1.40	1.38	-0.9%
PCB-170 22'33'44'5'-HpCB	43.14	3.56E+07	1.05 Y	1.14	1.13	-0.1%
PCB-190 233'44'56'-HpCB	43.59	5.01E+07	1.05 Y	1.66	1.60	-3.9%
PCB-202 22'33'55'66'-OcCB	39.75	3.84E+07	0.91 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.53	4.36E+07	0.92 Y	1.22	1.14	-6.3%
PCB-204 22'344'566'-OcCB	41.11	4.09E+07	0.91 Y	1.12	1.07	-3.7%
PCB-197 22'33'44'66'-OcCB	41.29	4.20E+07	0.91 Y	1.19	1.10	-7.5%
PCB-200 22'33'4566'-OcCB	41.38	4.13E+07	0.91 Y	1.11	1.08	-2.1%
PCB-198/199 ...-OcCB	43.71	5.67E+07	0.91 Y	0.81	0.74	-8.1%
PCB-196 22'33'44'56'-OcCB	44.28	3.03E+07	0.90 Y	0.83	0.80	-4.6%
PCB-203 22'344'55'6'-OcCB	44.45	3.18E+07	0.91 Y	0.87	0.83	-4.6%
PCB-195 22'33'44'56'-OcCB	45.57	2.74E+07	0.90 Y	0.77	0.72	-5.8%
PCB-194 22'33'44'55'-OcCB	47.51	3.06E+07	0.91 Y	0.84	0.81	-4.5%
PCB-205 233'44'55'6'-OcCB	47.91	3.93E+07	0.91 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.37	4.33E+07	0.78 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.15	4.59E+07	0.79 Y	1.19	1.18	-1.3%
PCB-206 22'33'44'55'6'-NoCB	49.37	2.98E+07	0.78 Y	1.11	-	-

SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

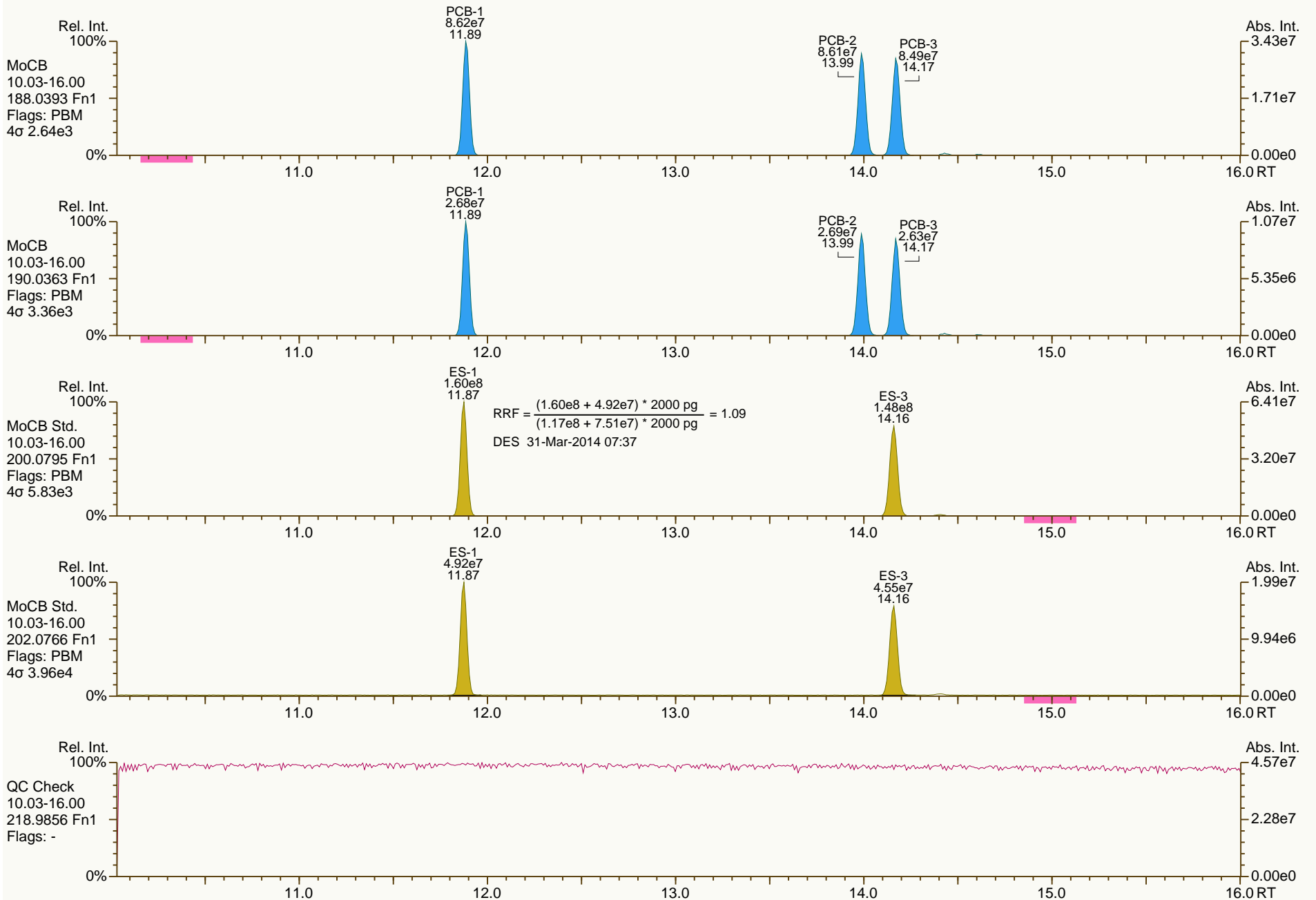
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

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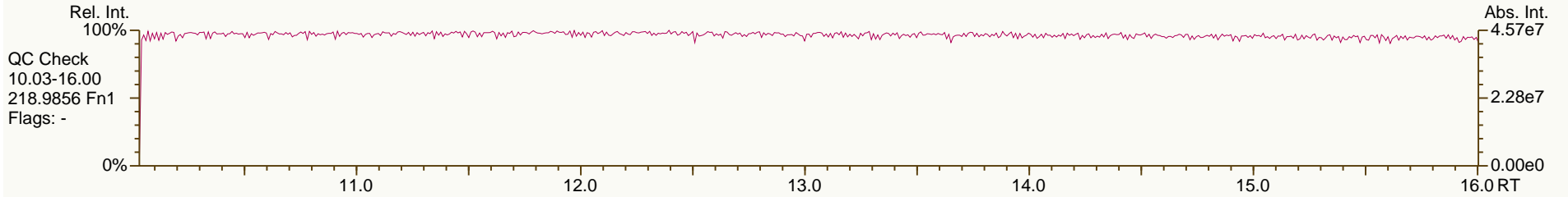
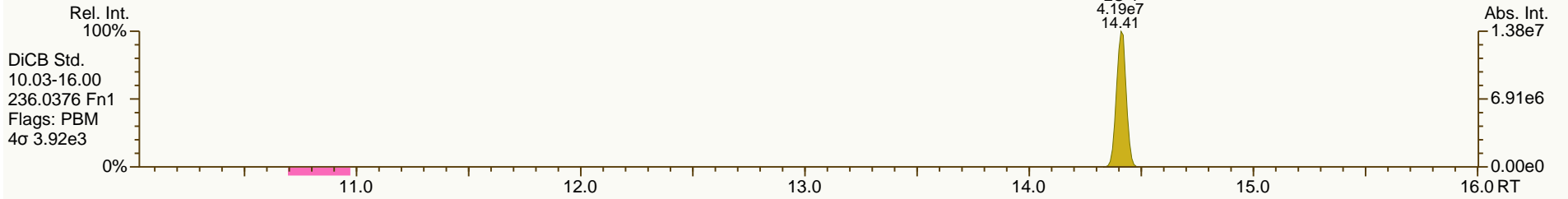
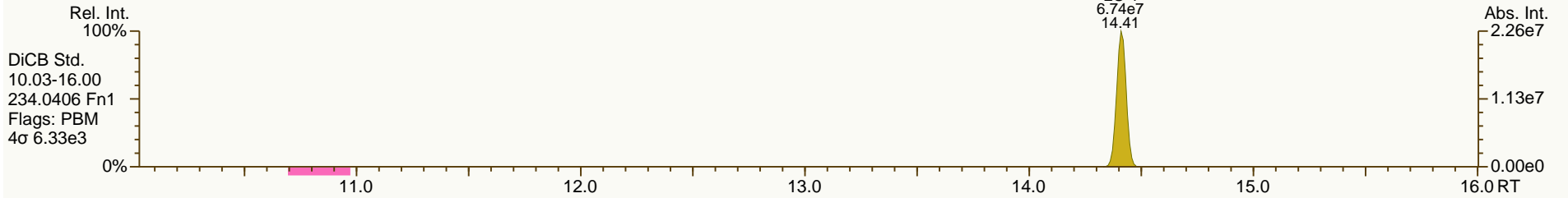
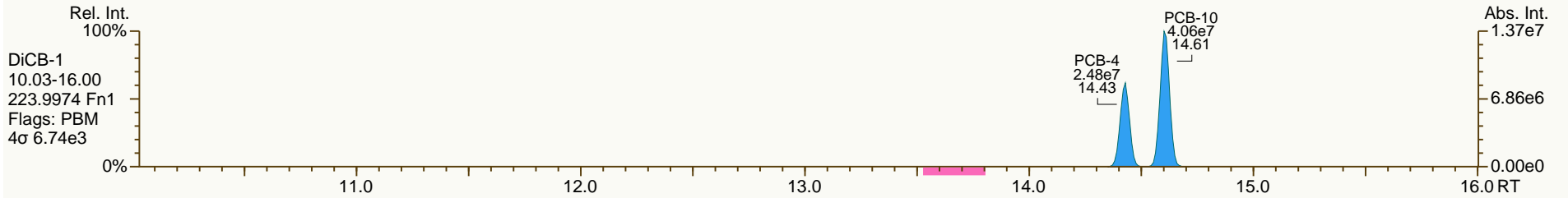
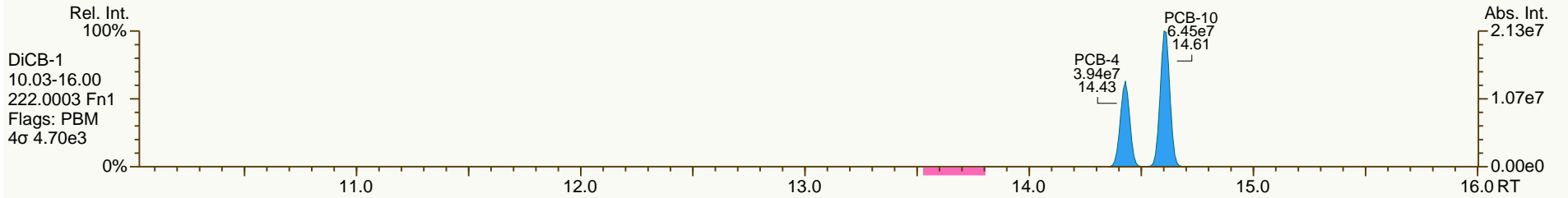




SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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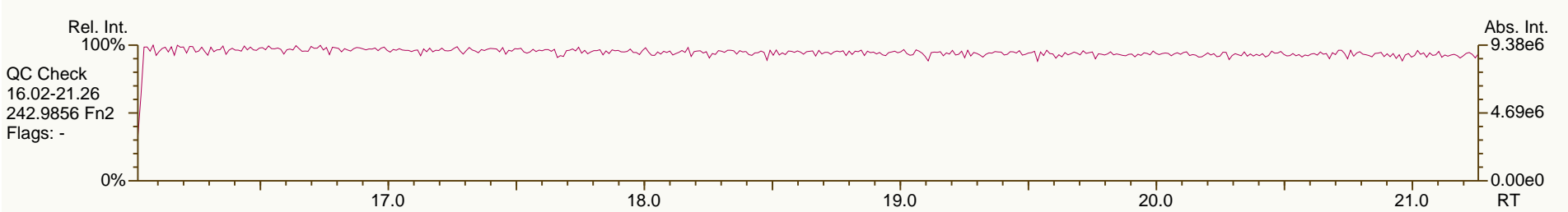
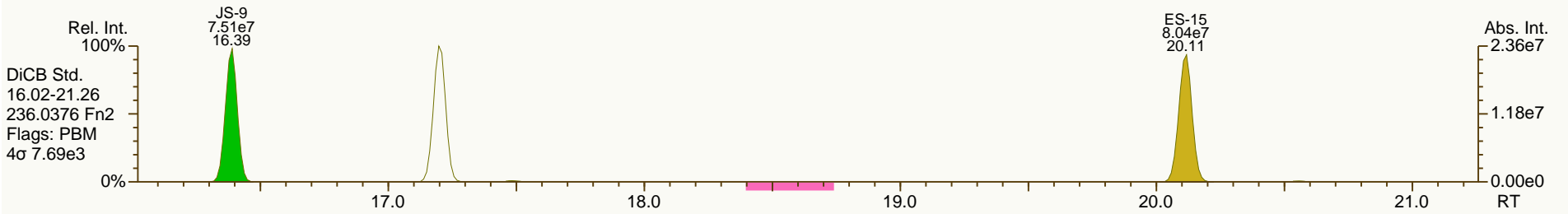
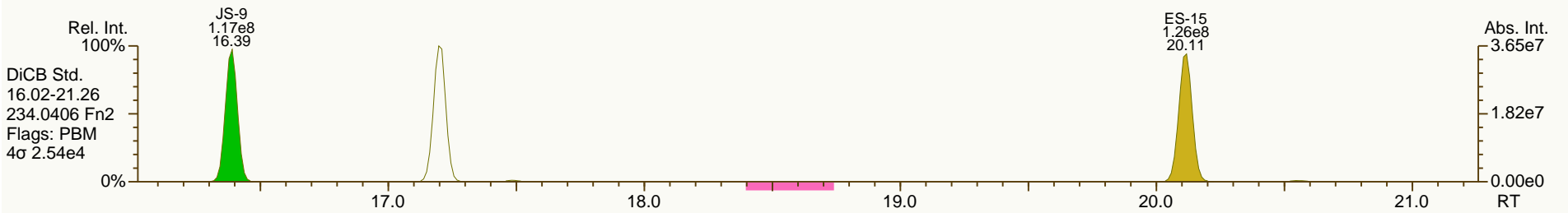
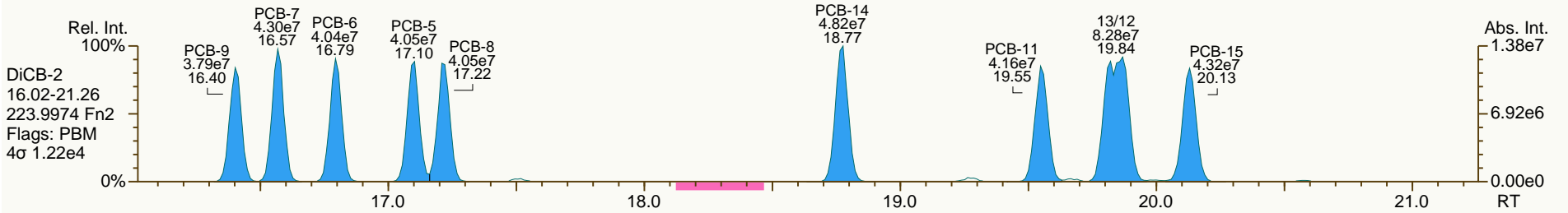
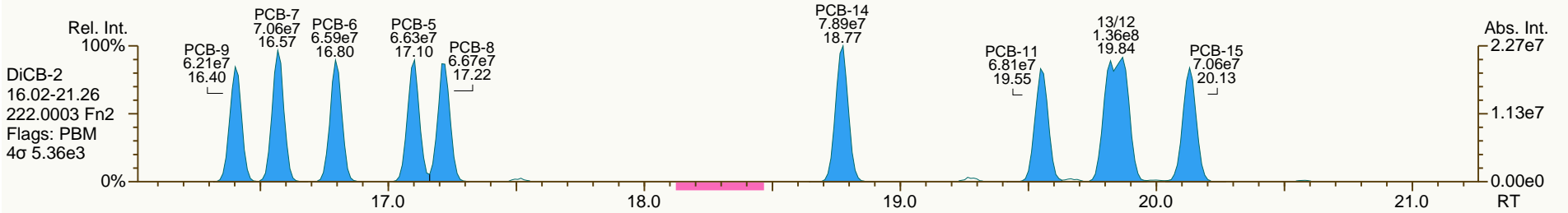
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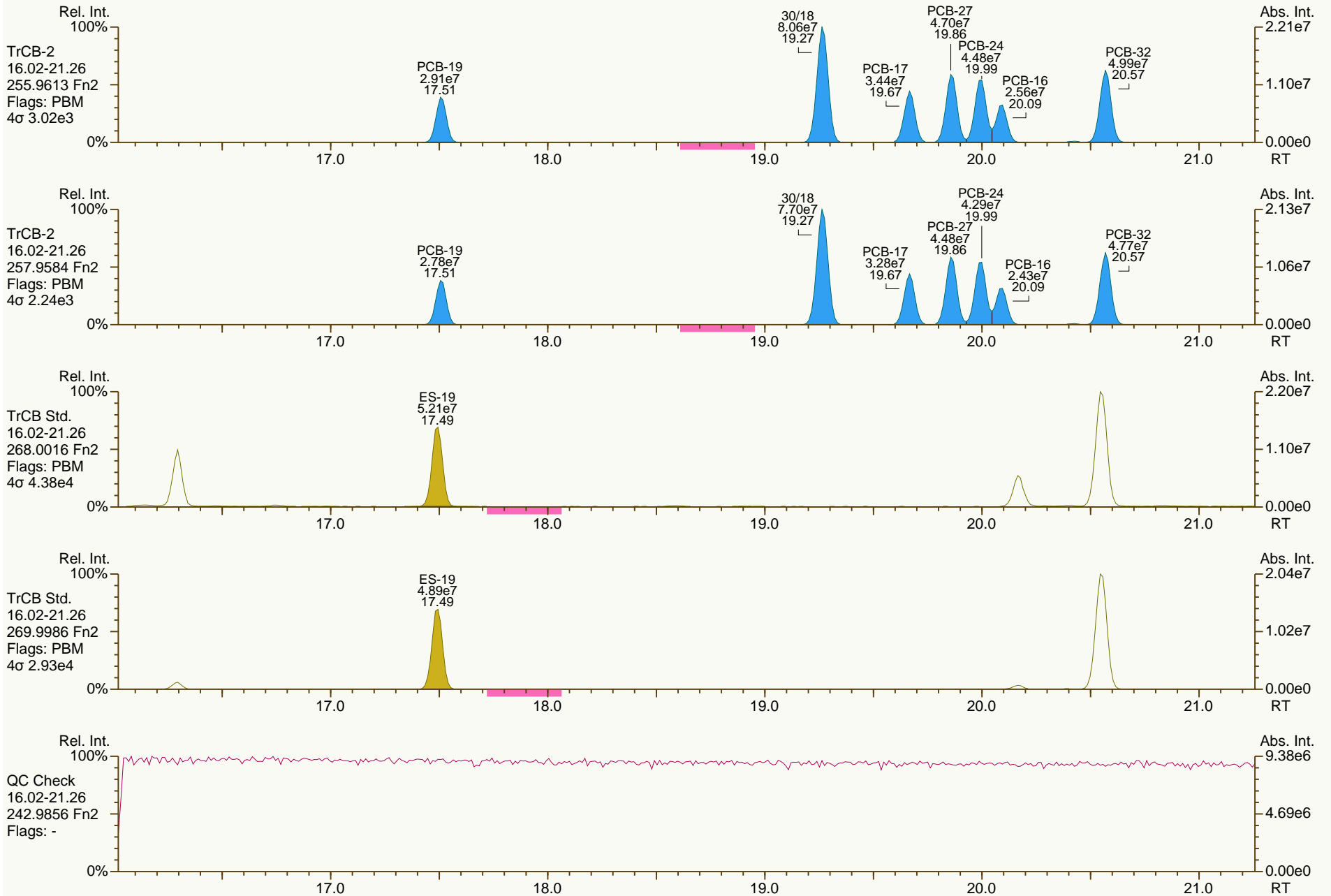
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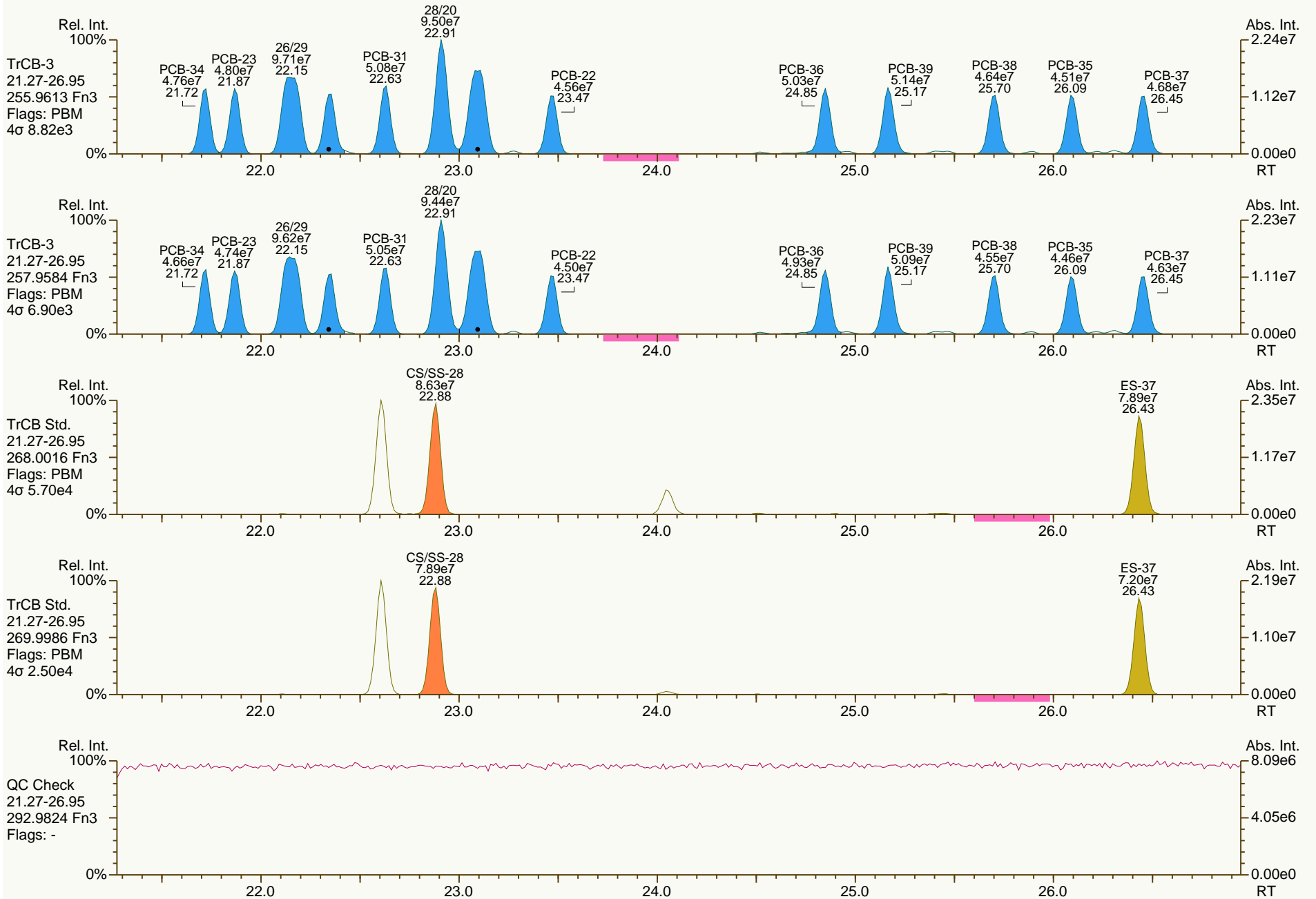
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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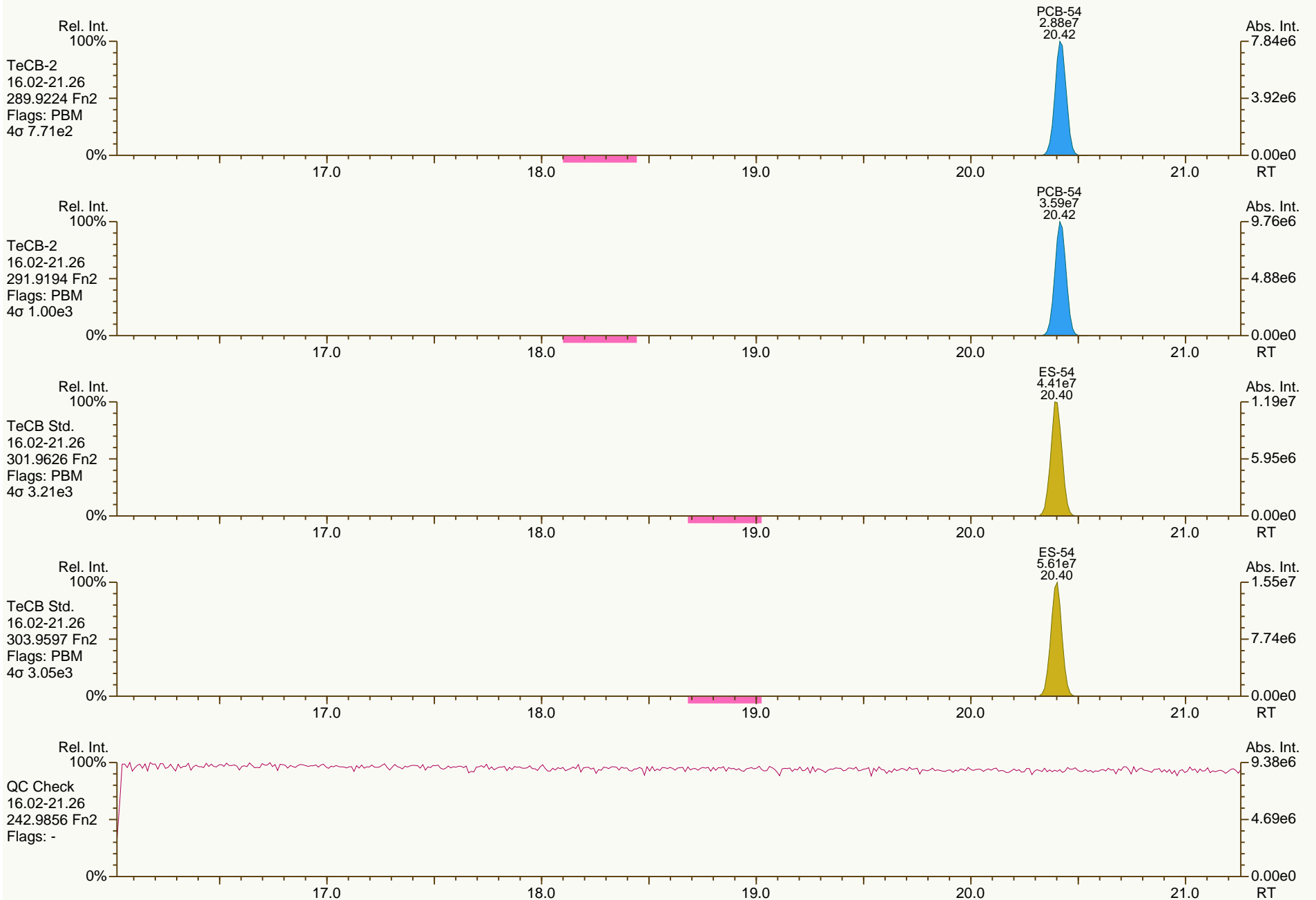
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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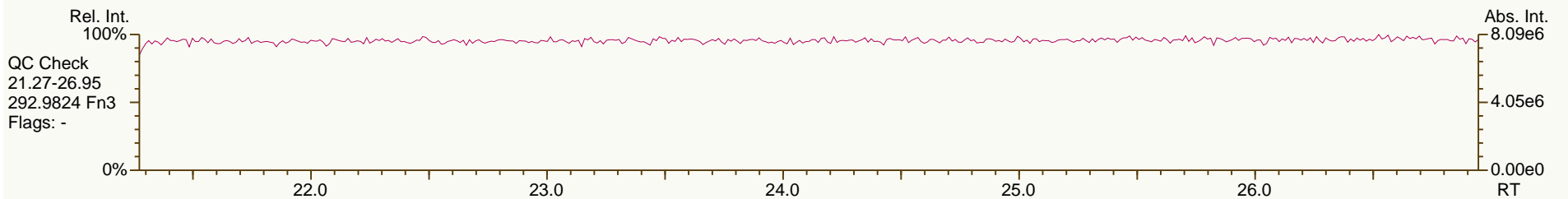
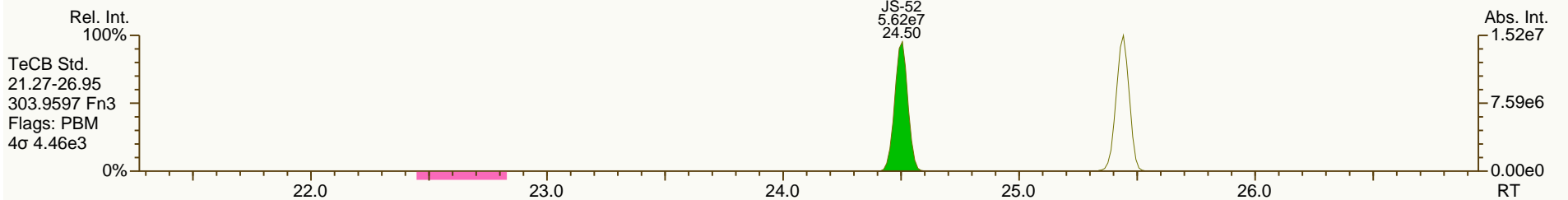
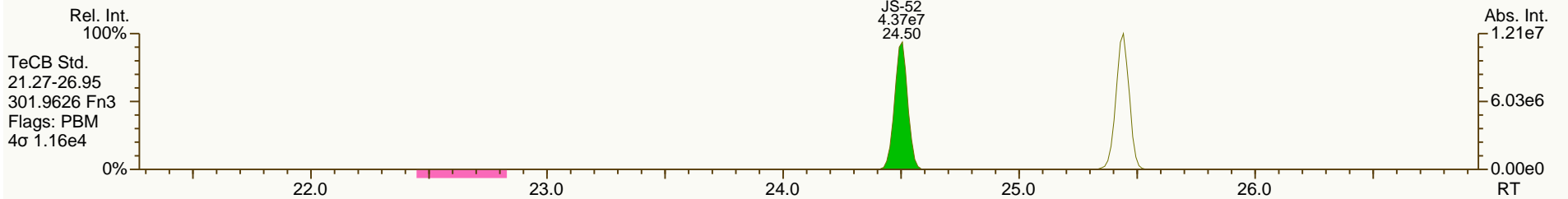
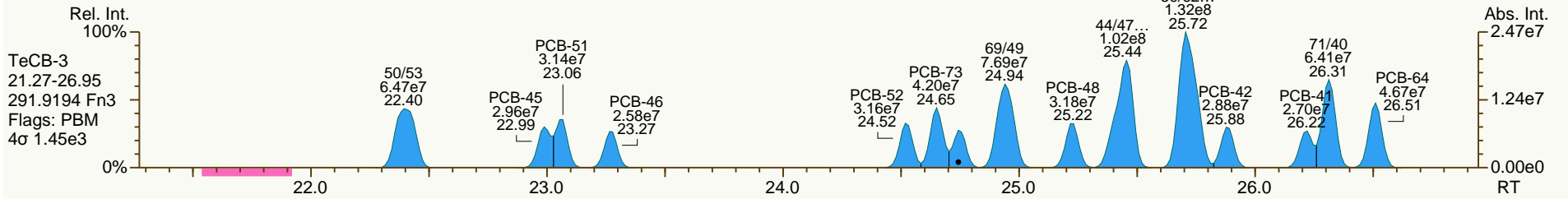
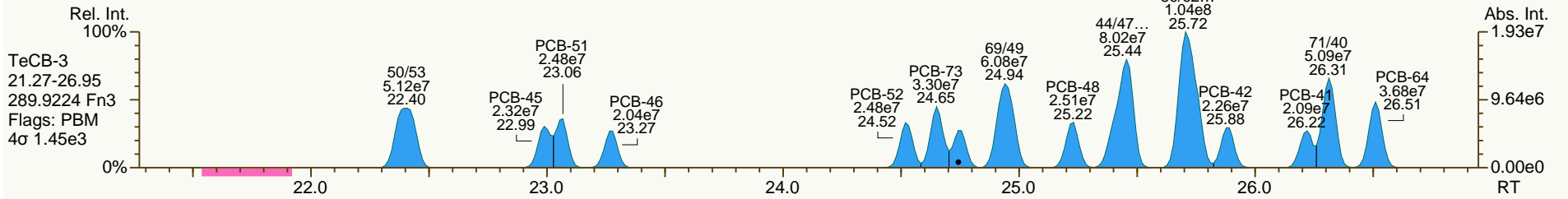
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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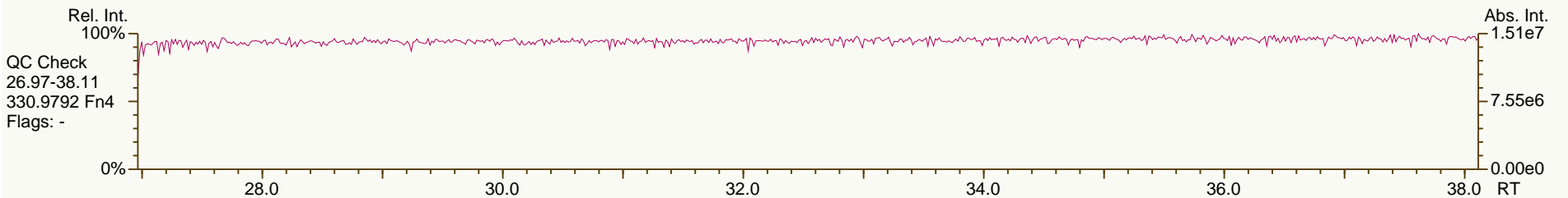
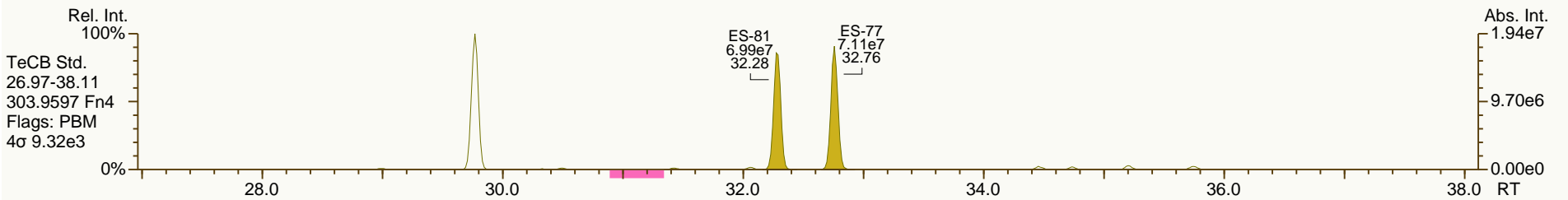
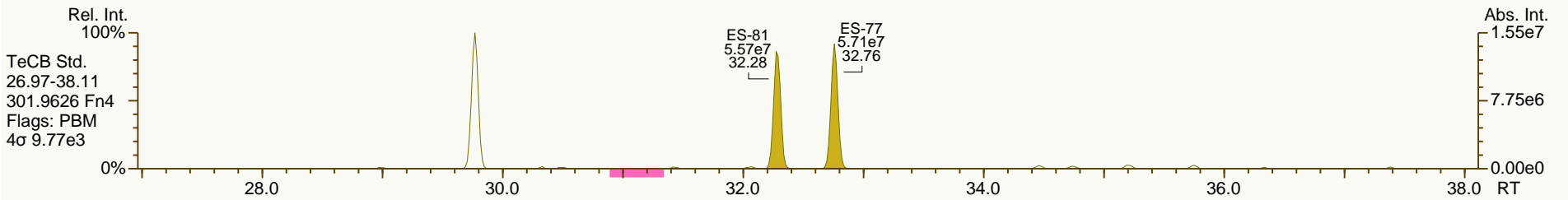
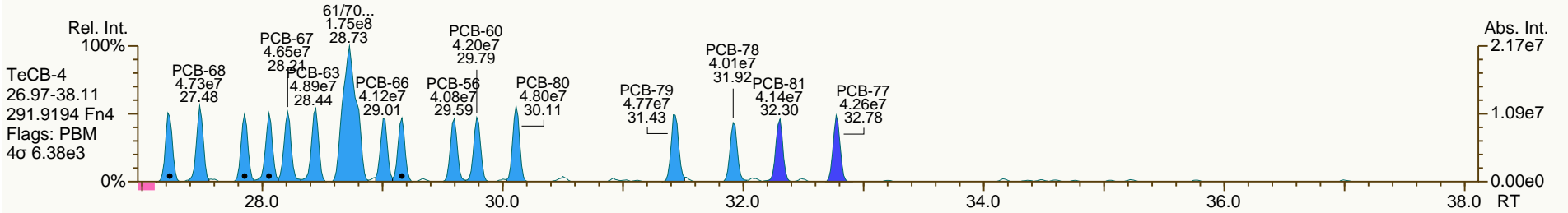
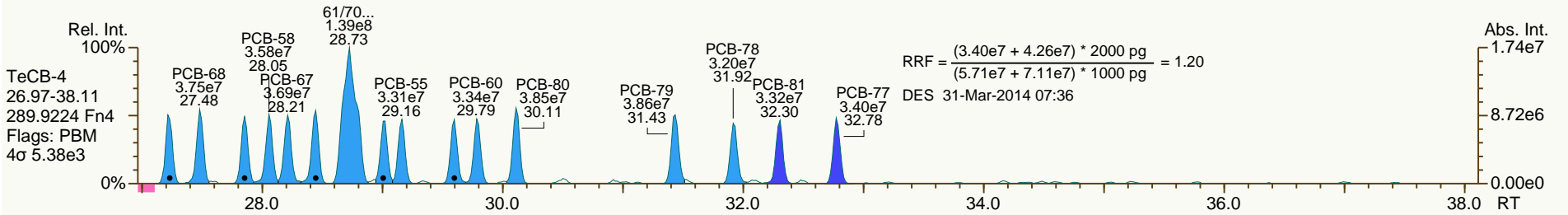
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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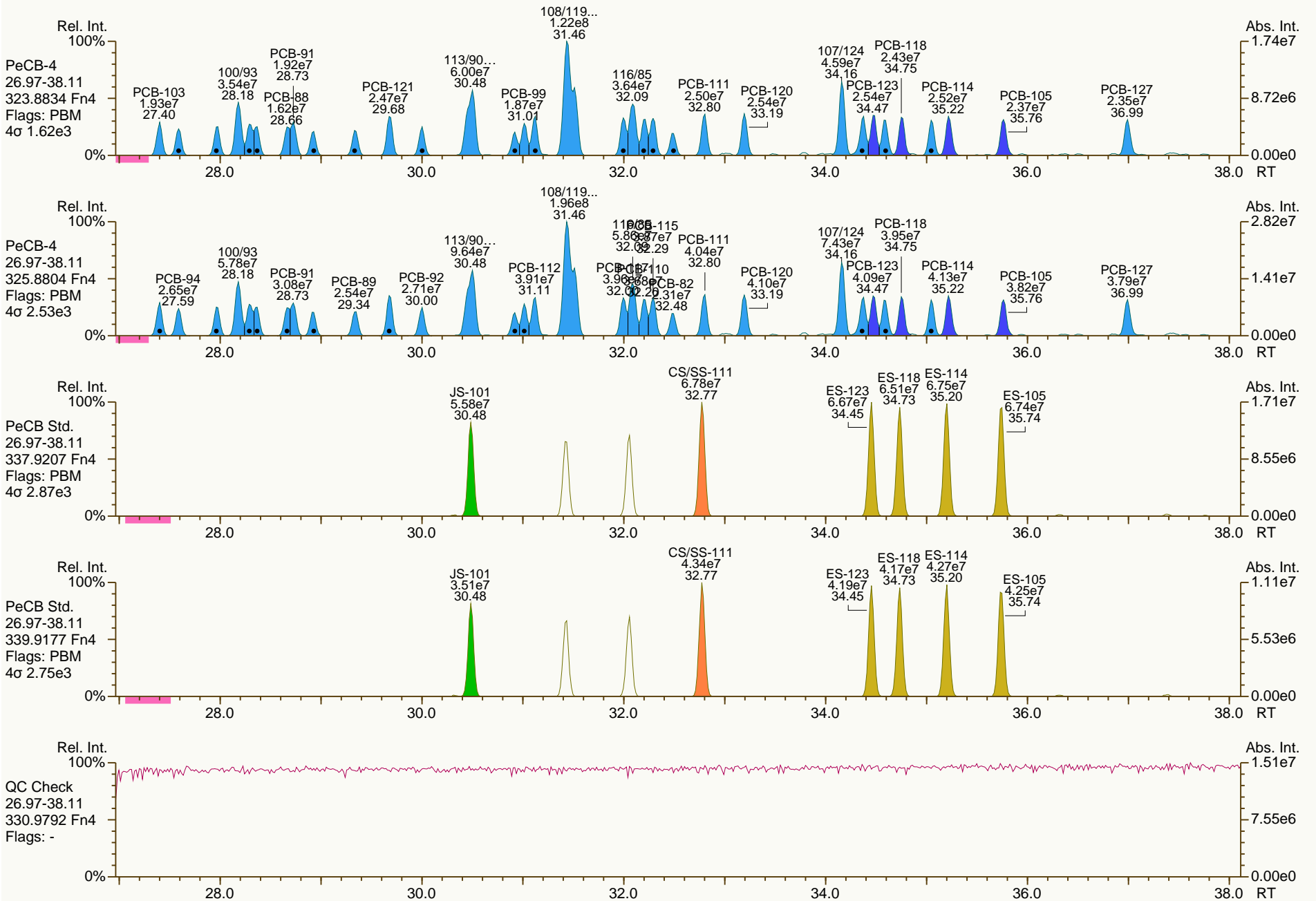




SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

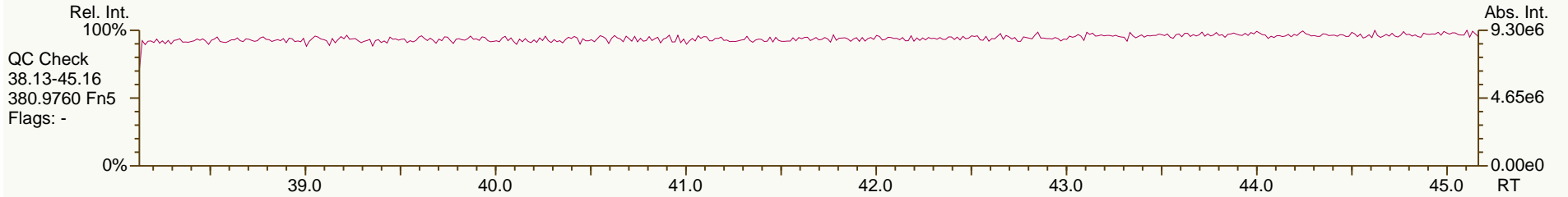
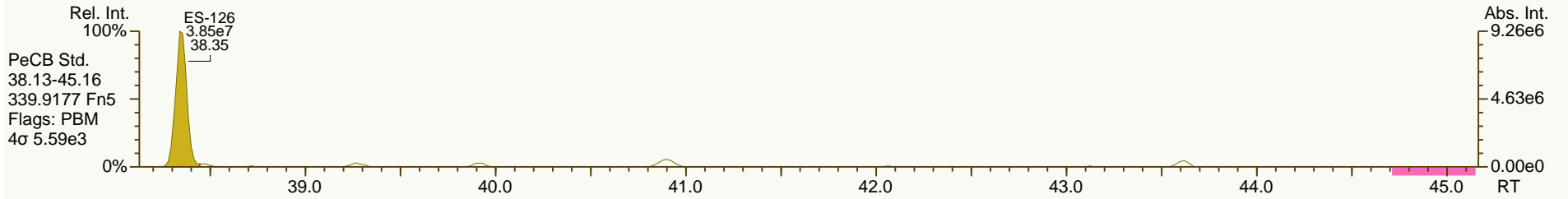
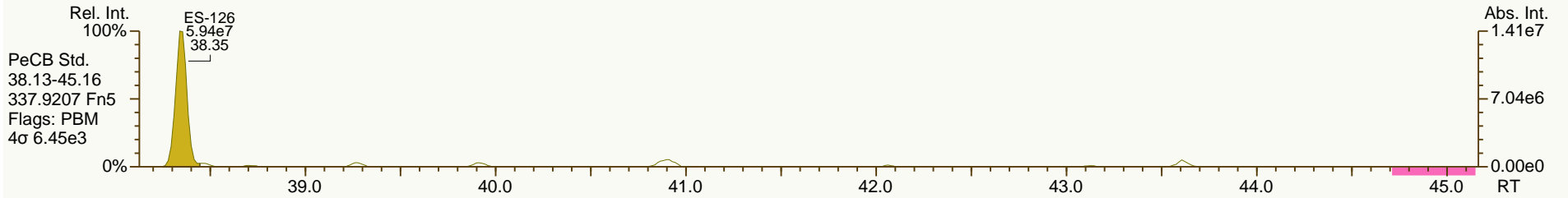
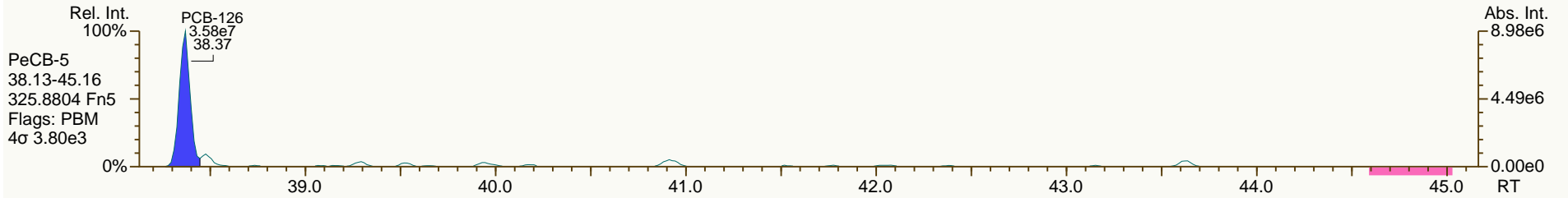
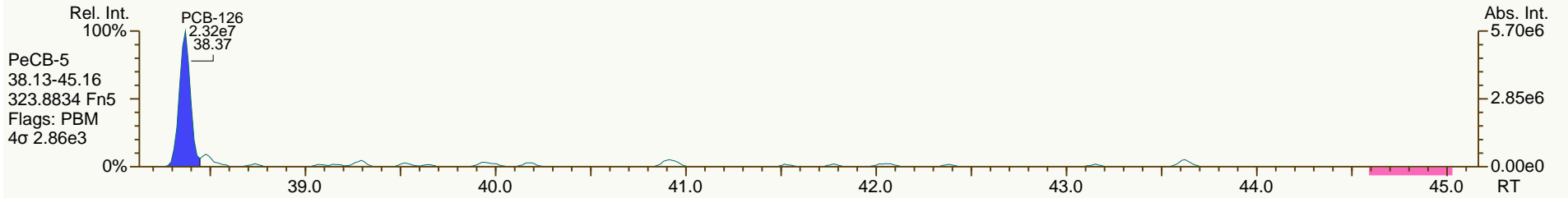
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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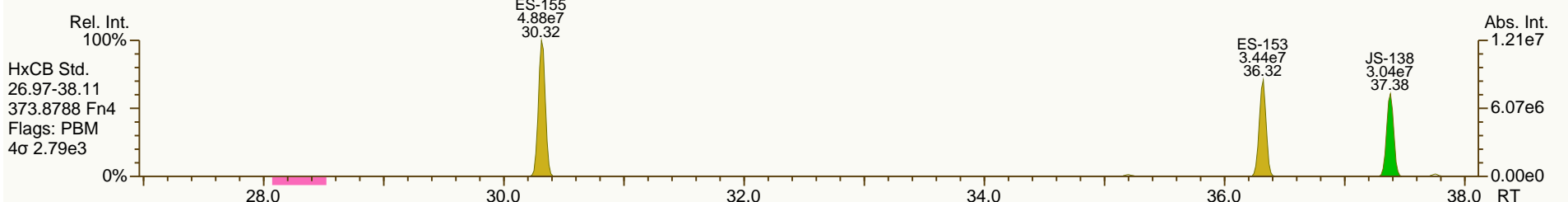
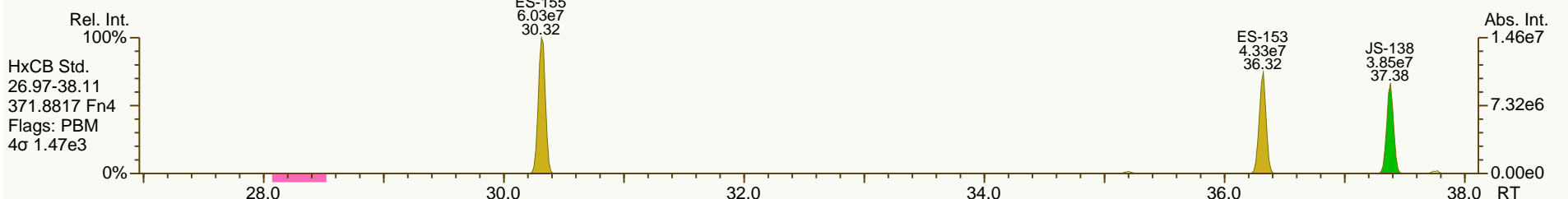
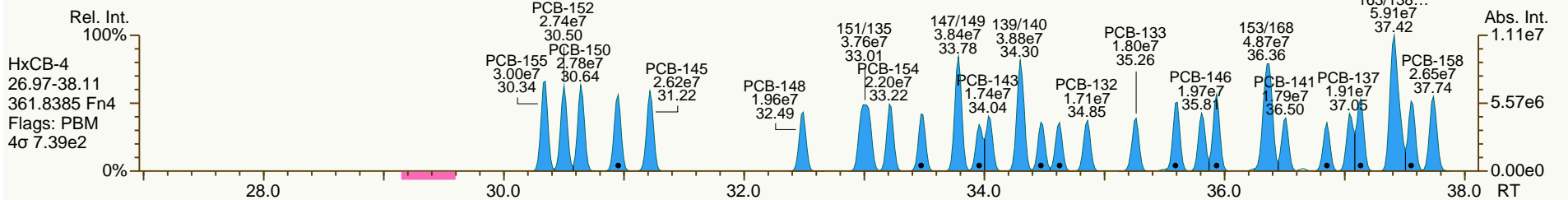
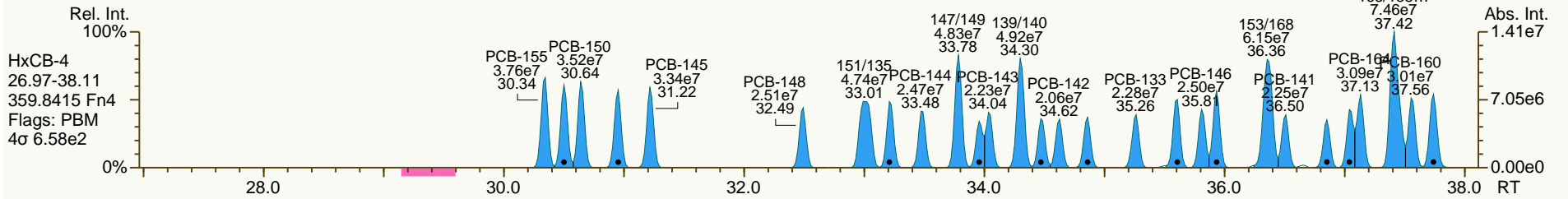
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

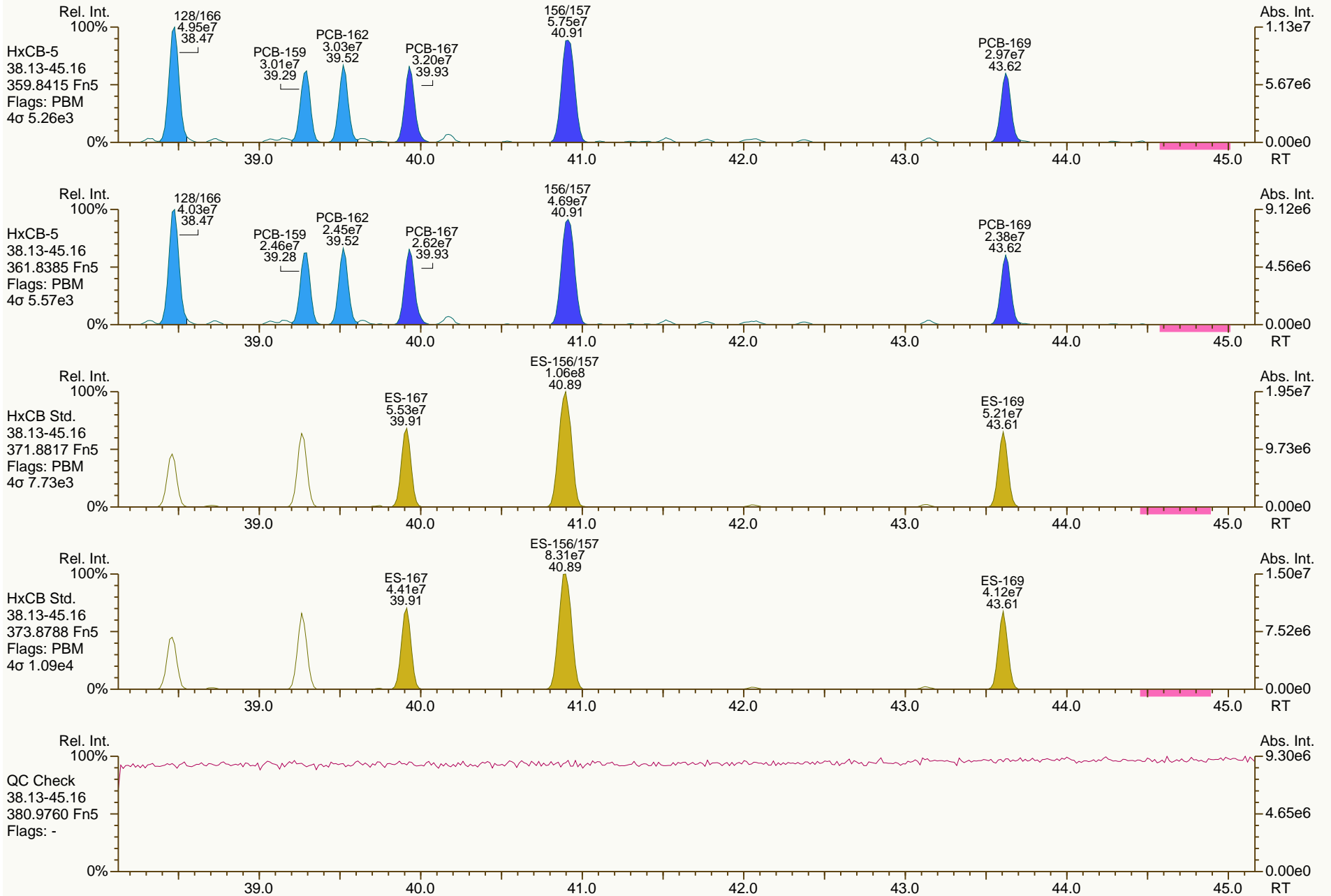
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

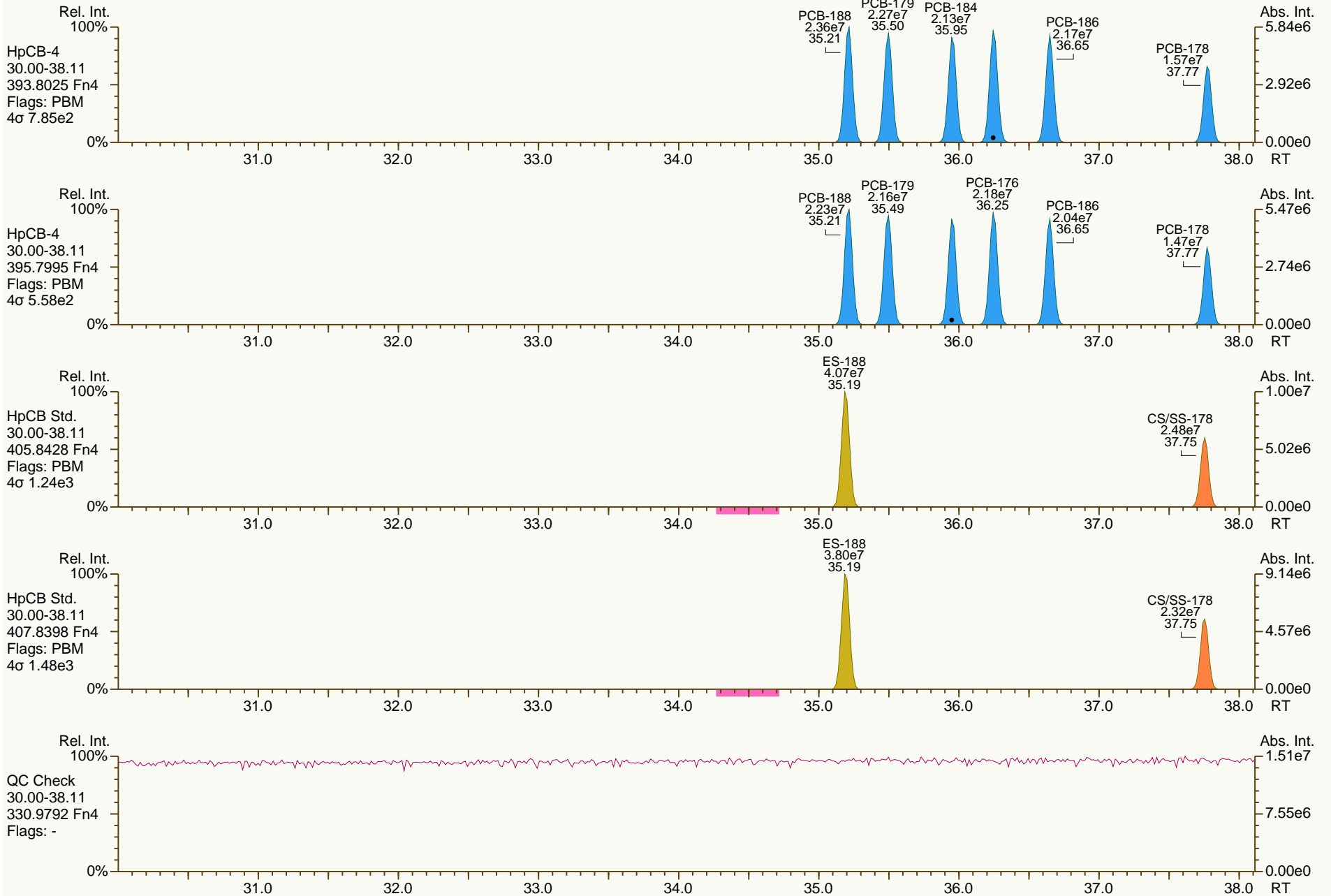
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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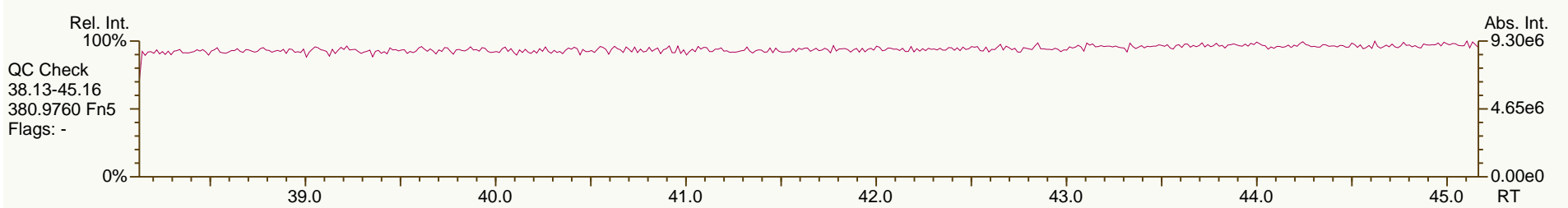
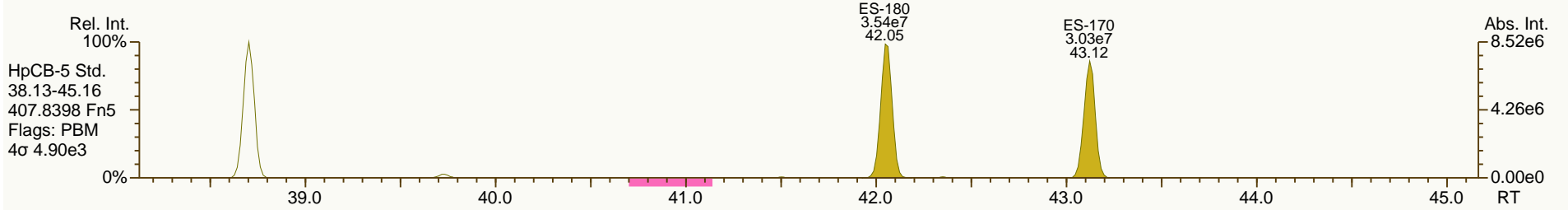
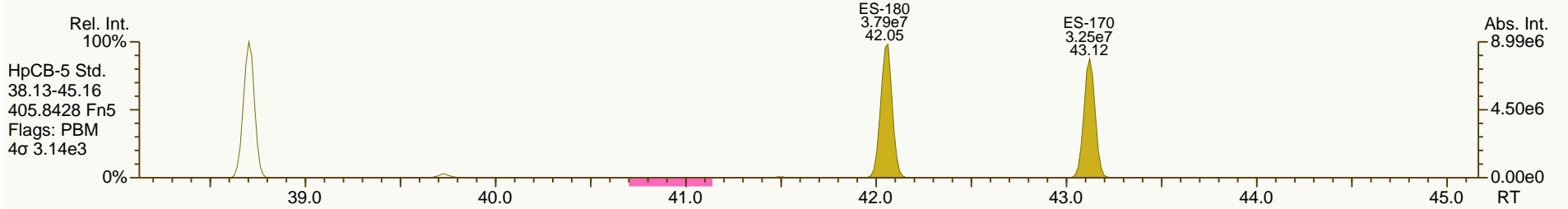
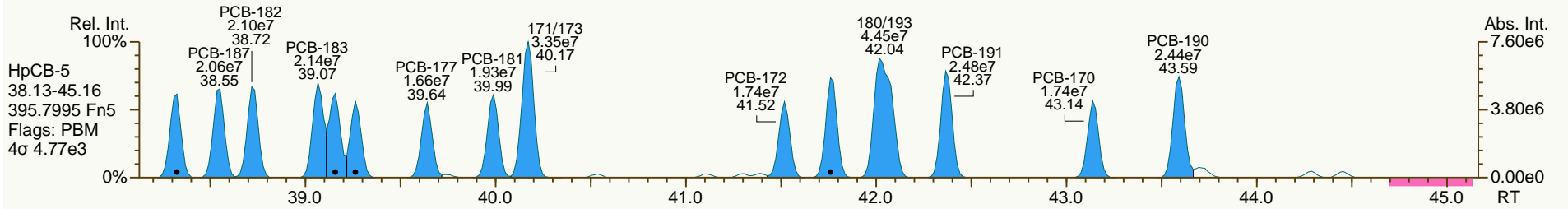
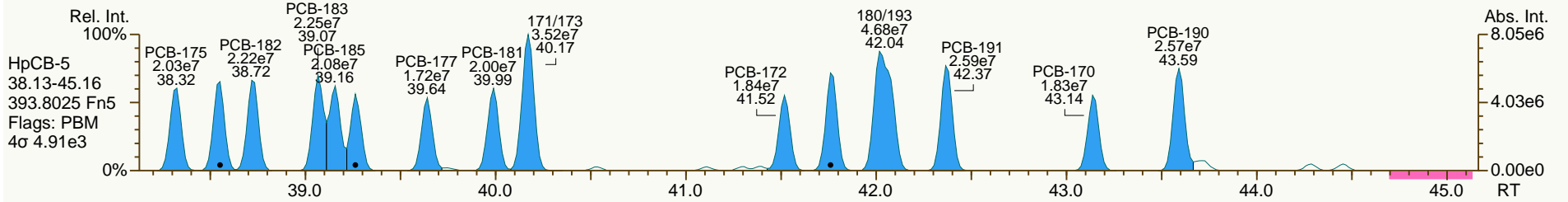
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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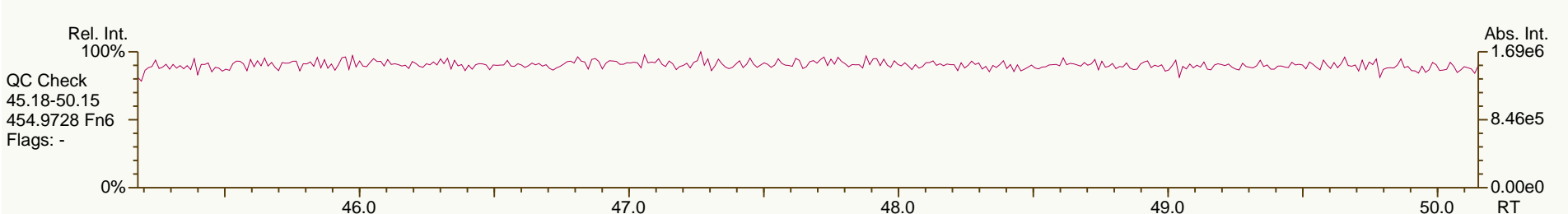
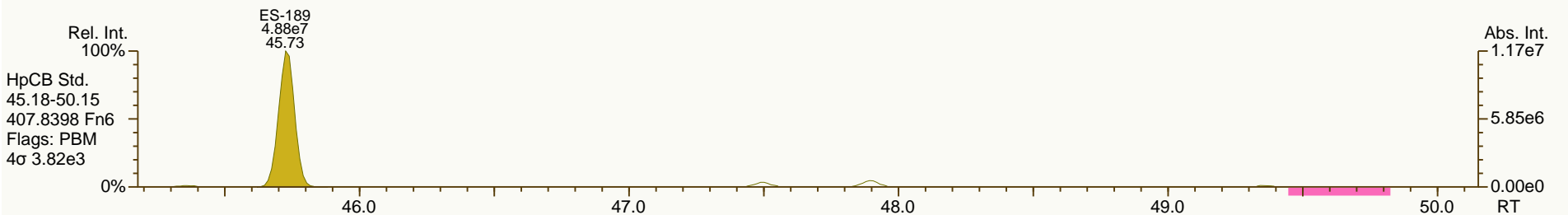
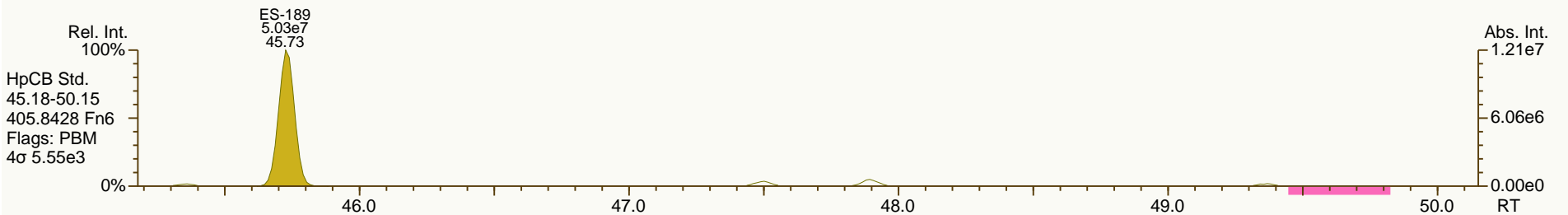
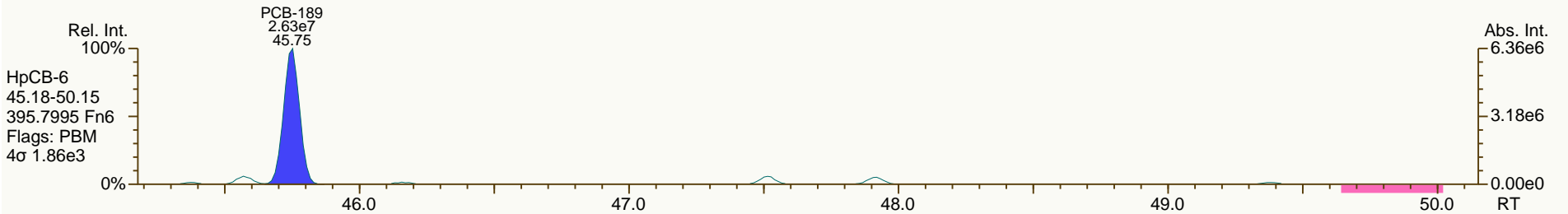
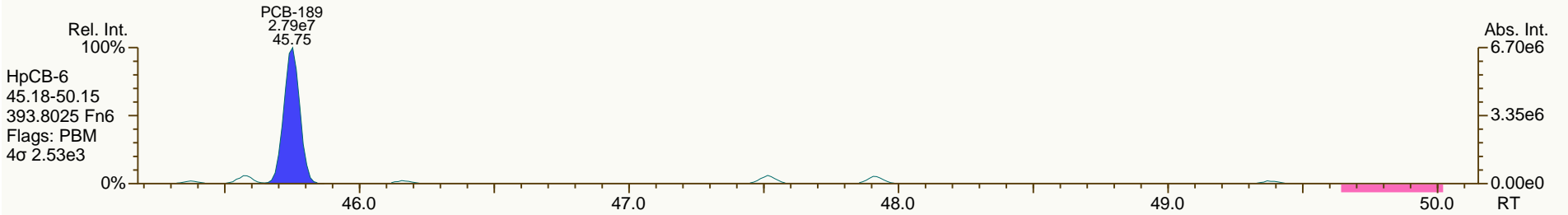
Acq: 28-Mar-2014 17:00:58  
 User: LKB Datafile: 140328X07



SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

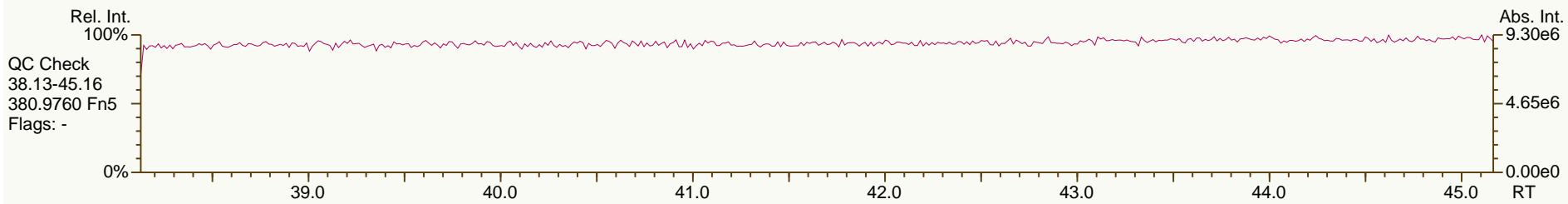
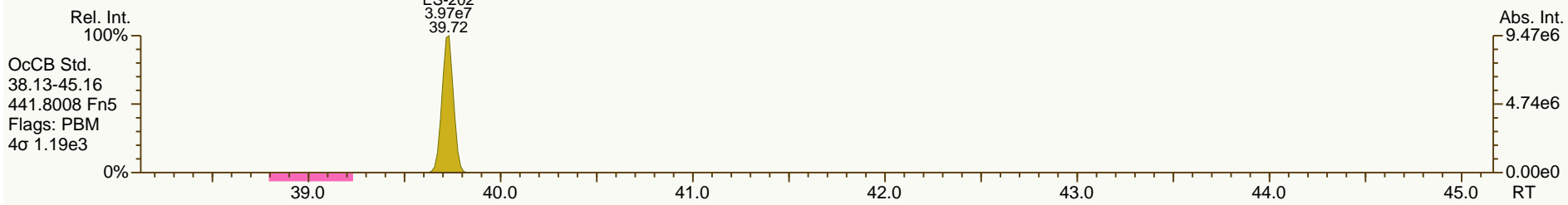
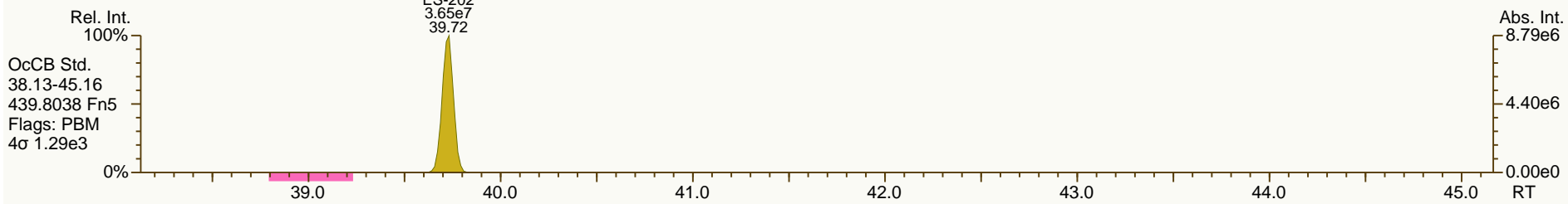
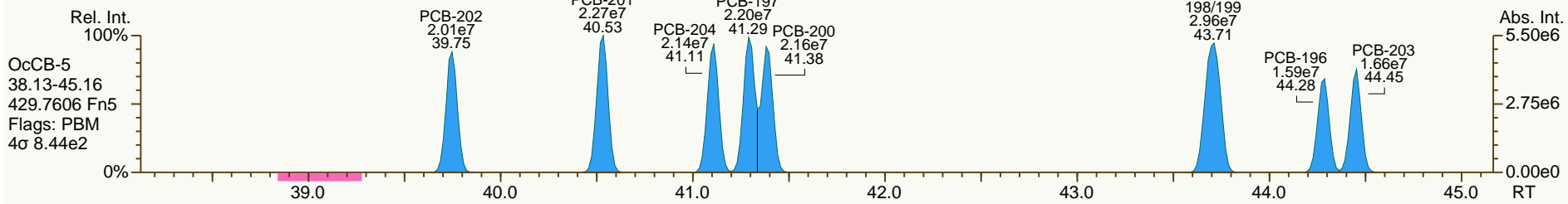
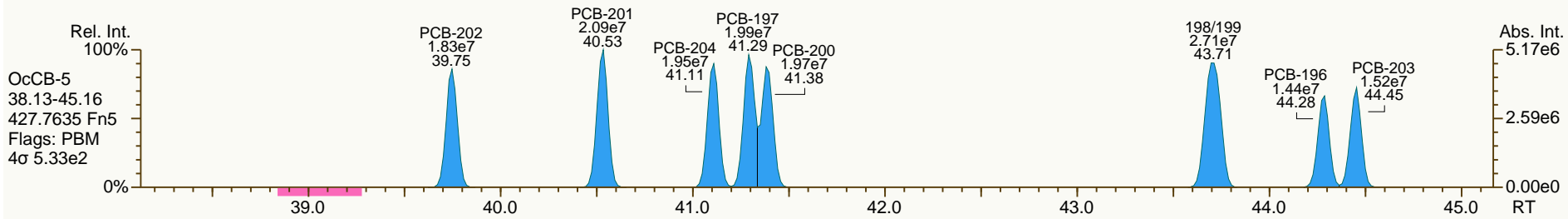
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 28-Mar-2014 17:00:58  
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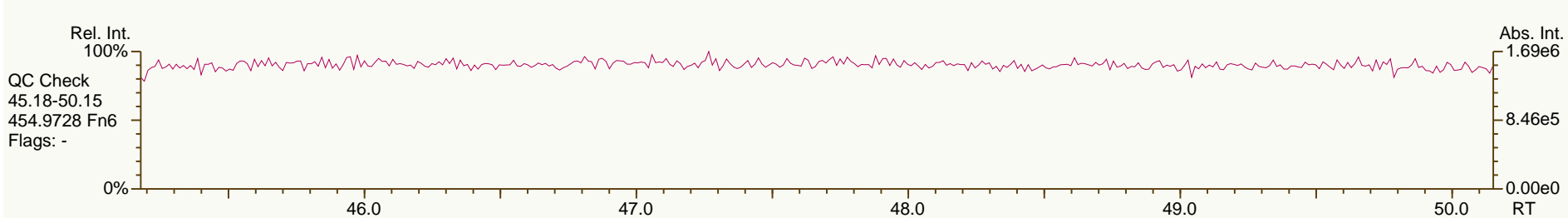
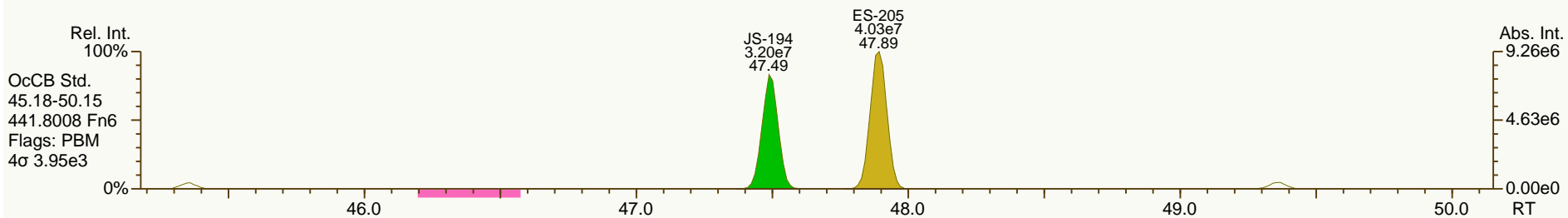
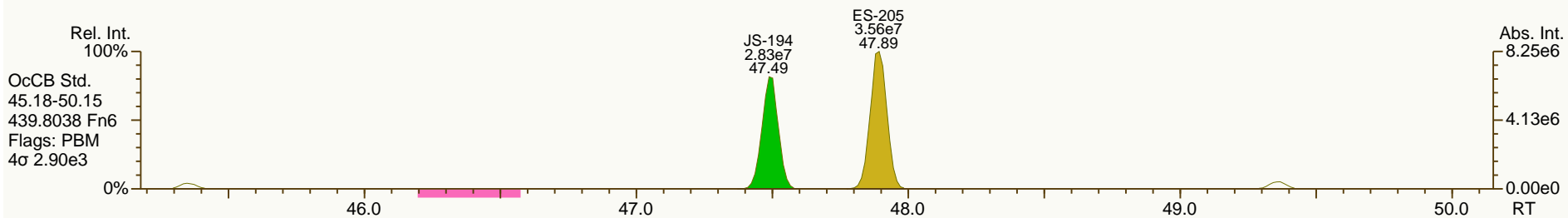
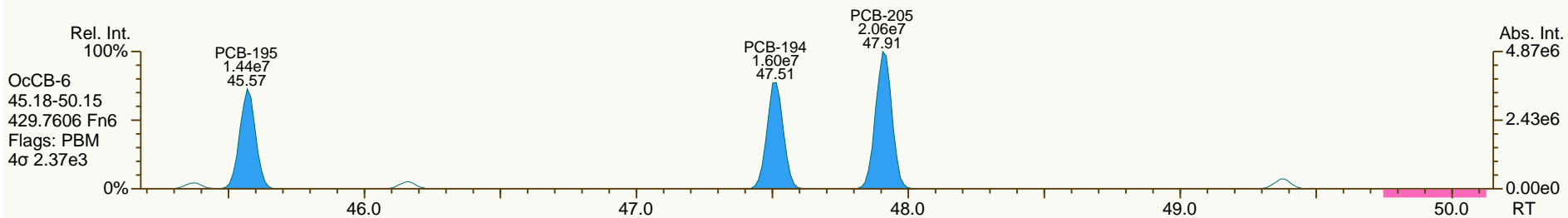
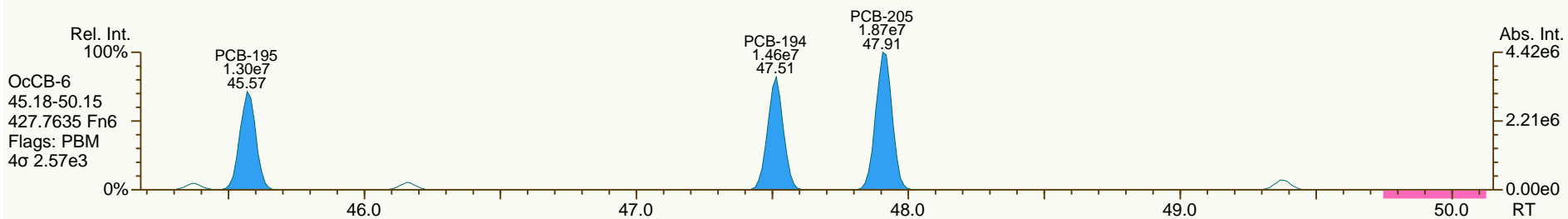




SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

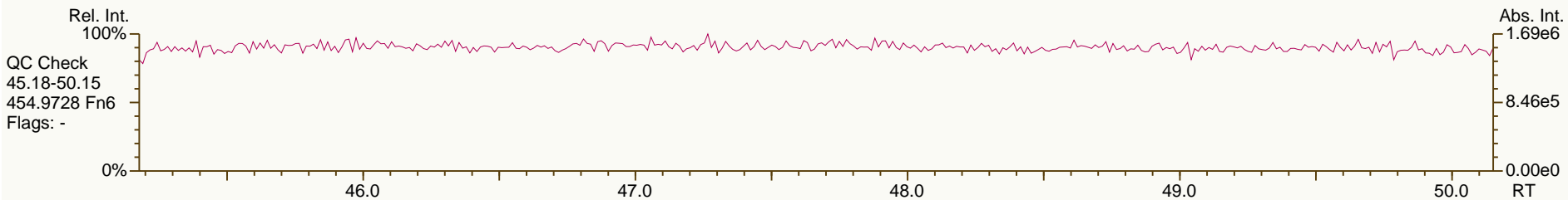
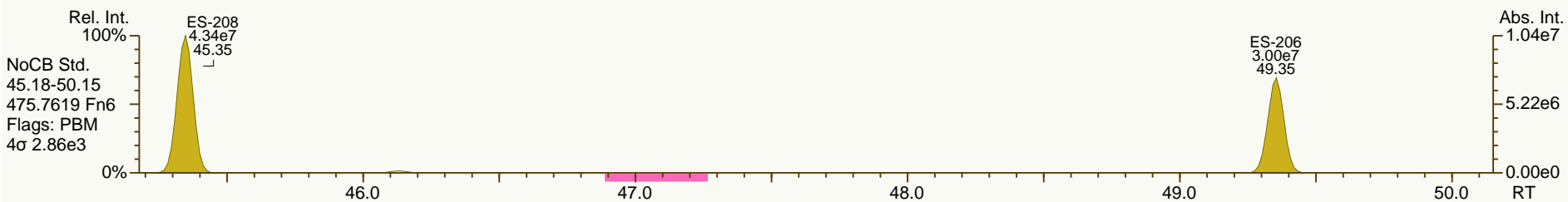
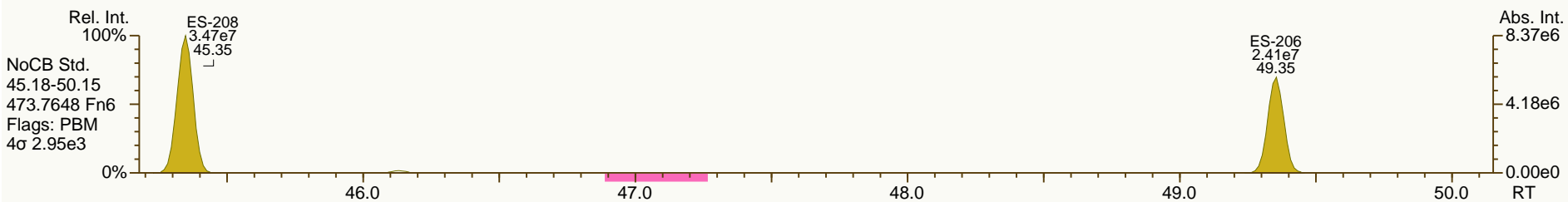
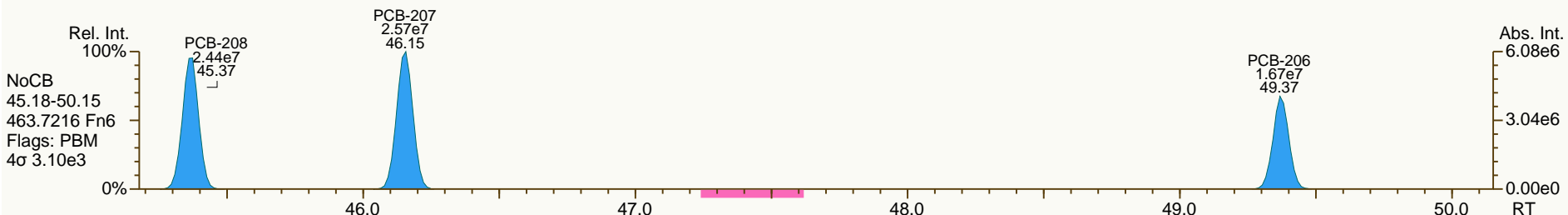
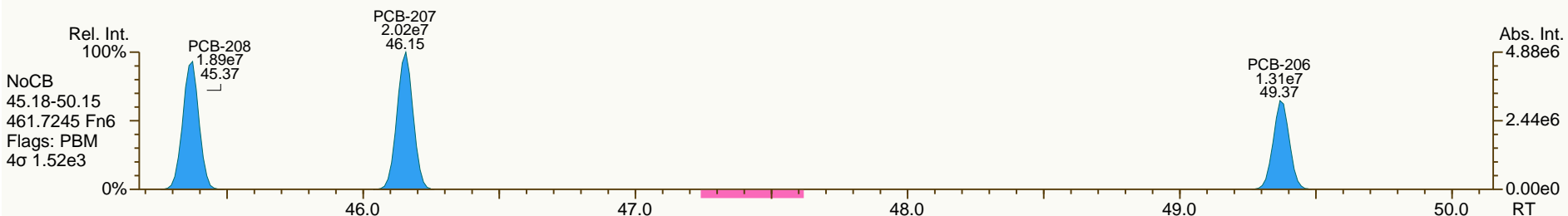
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

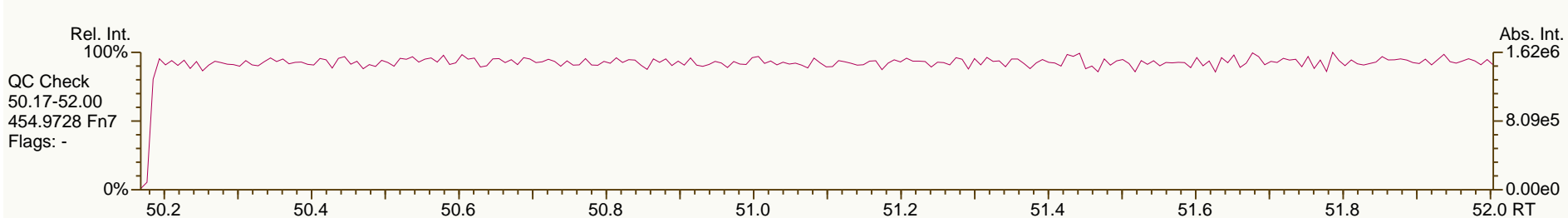
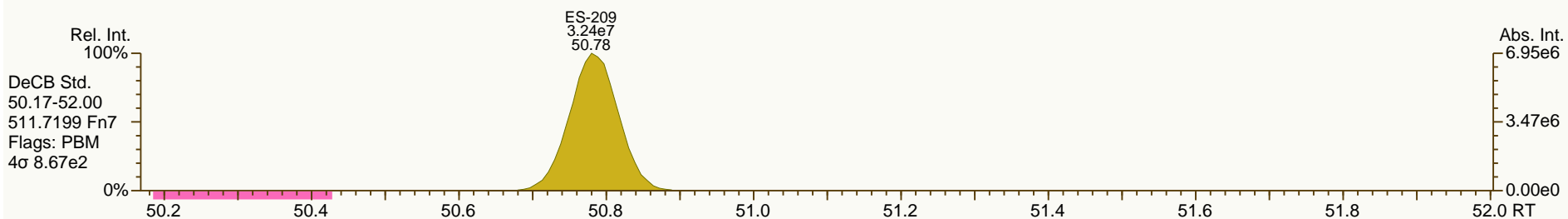
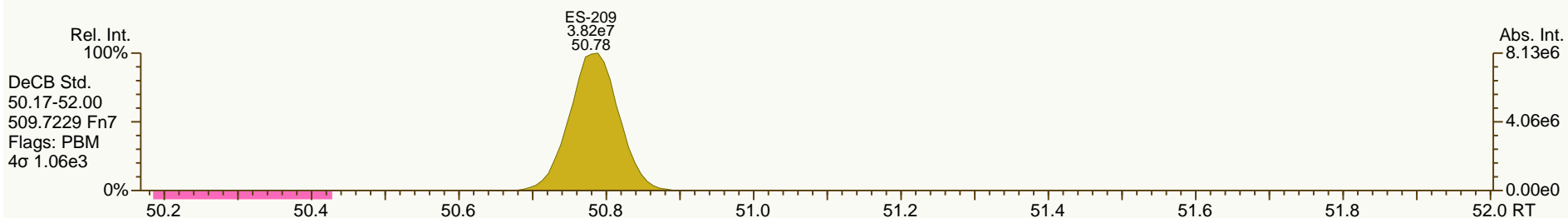
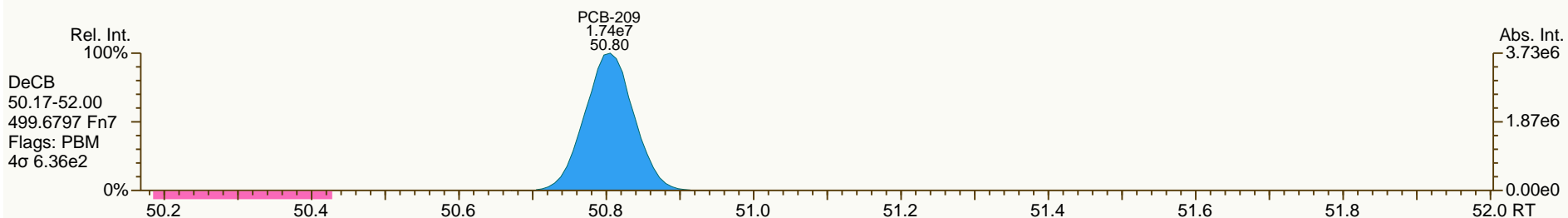
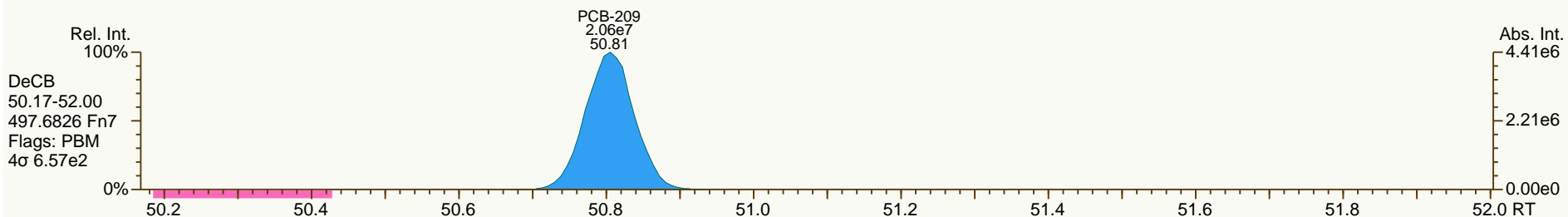
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

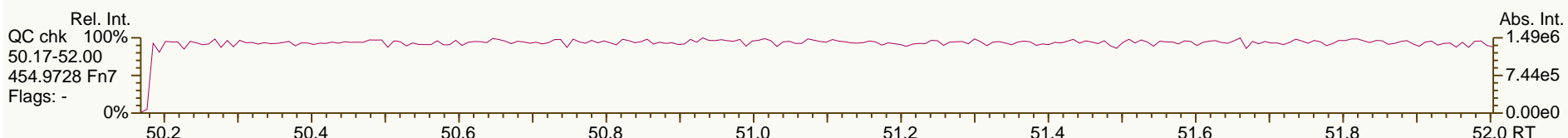
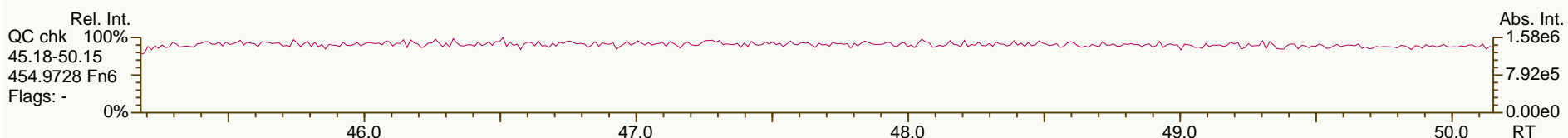
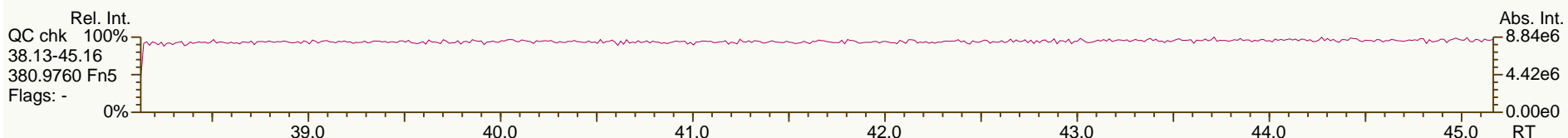
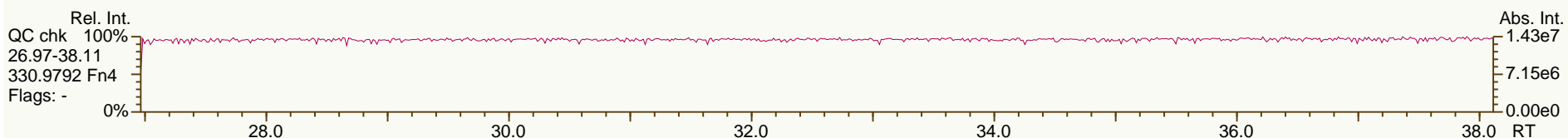
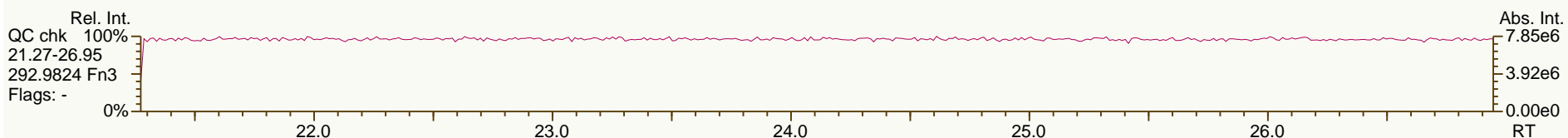
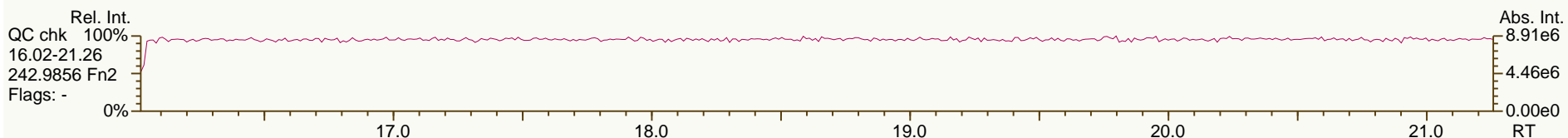
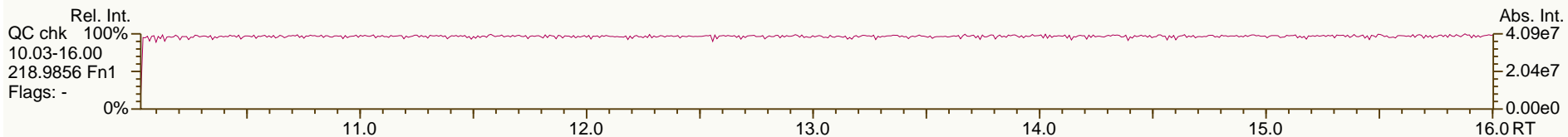
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

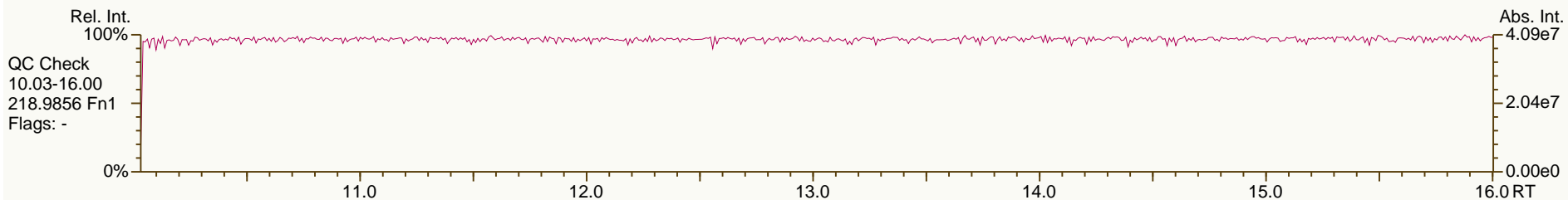
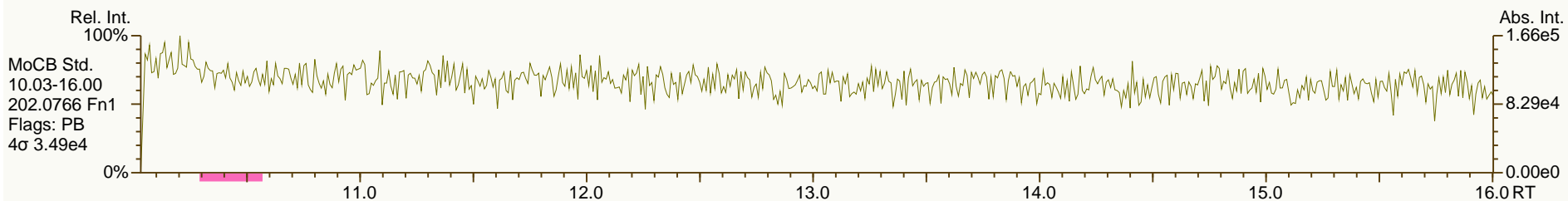
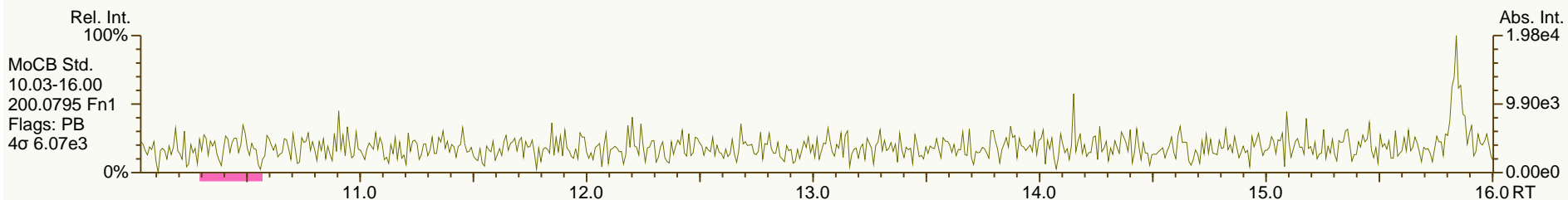
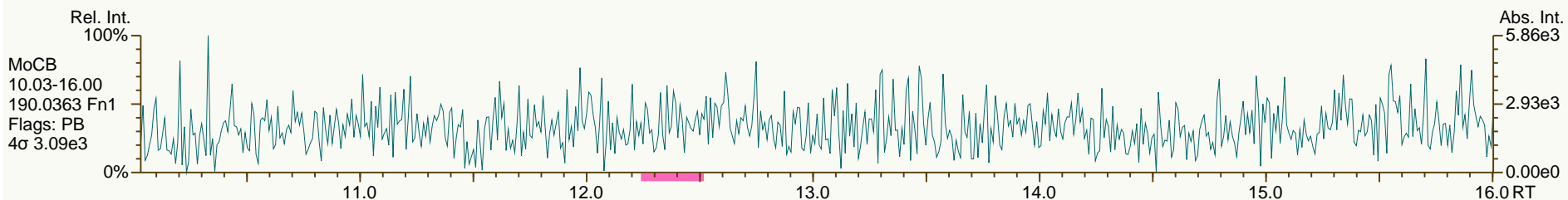
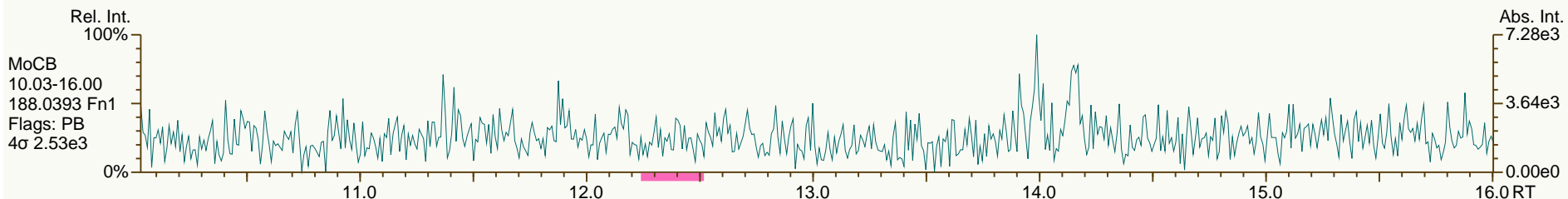
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

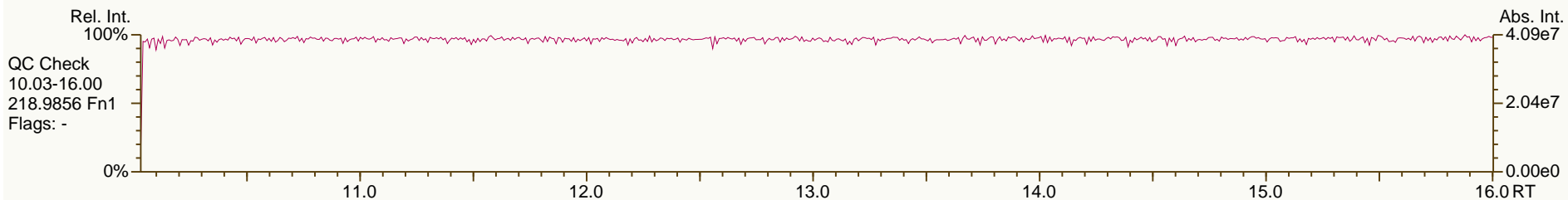
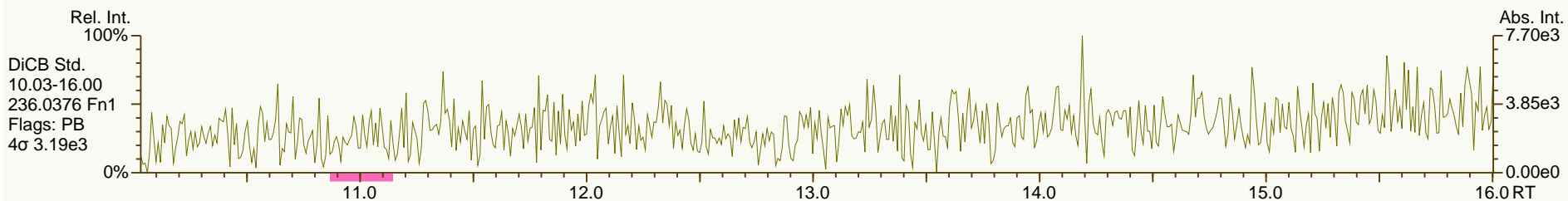
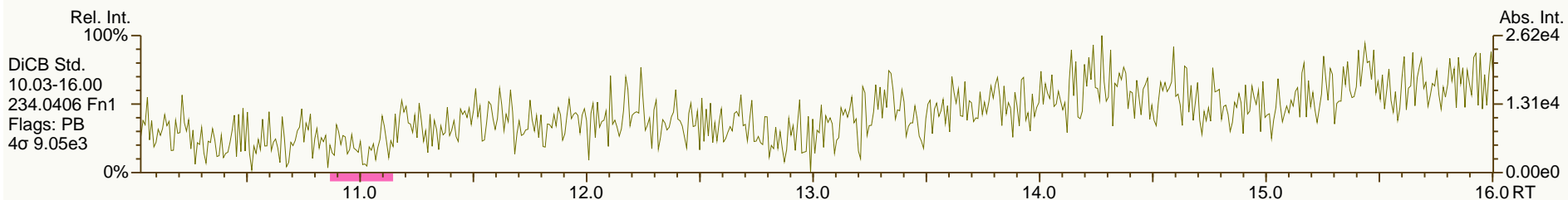
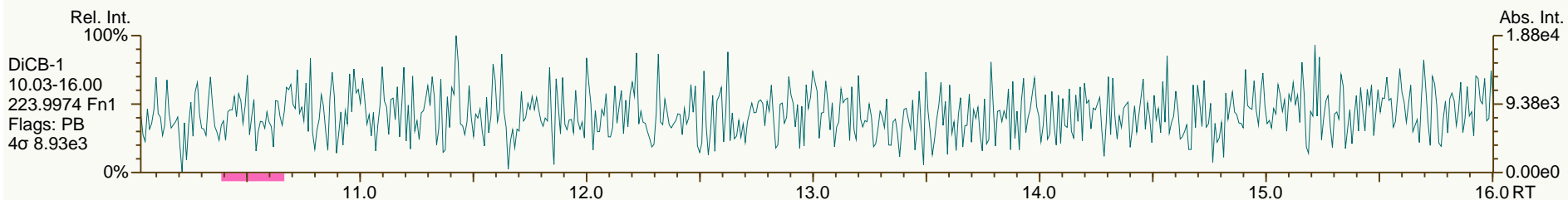
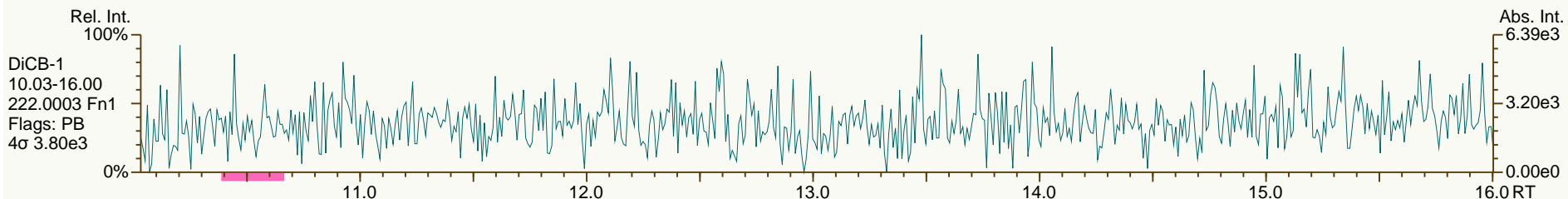
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SGS-AP ID: SBS\_140328\_PCB\_XC  
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Sample ID: SIL 13-42-1  
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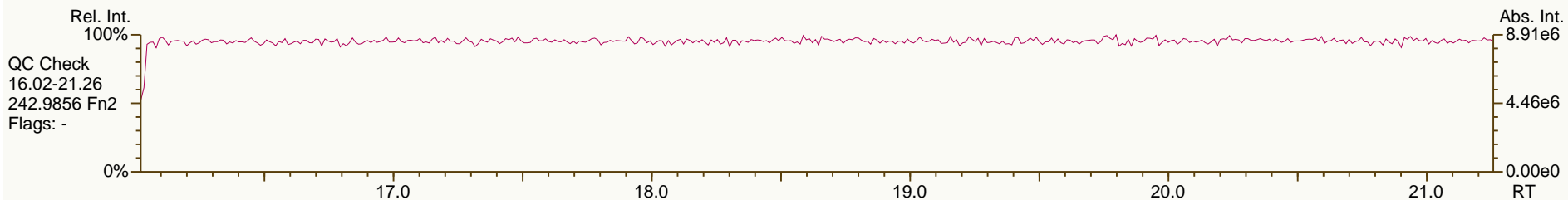
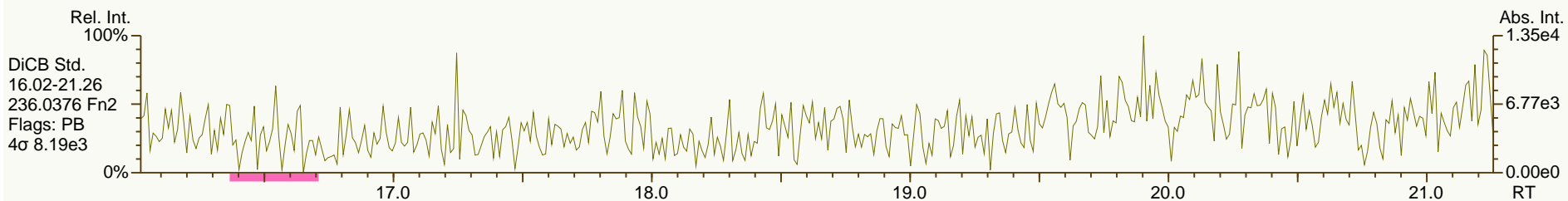
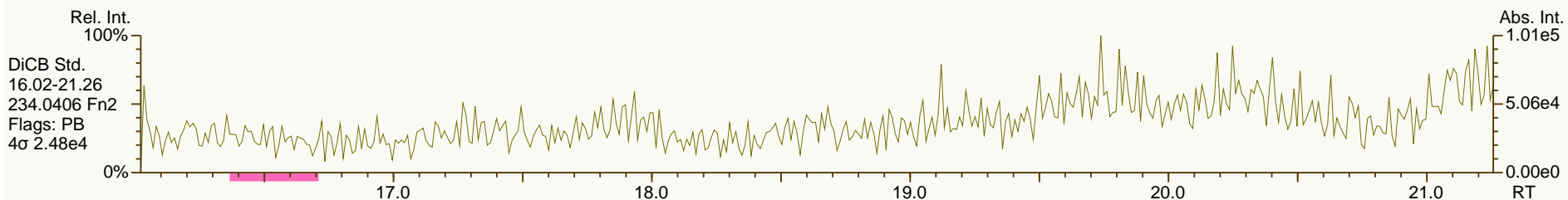
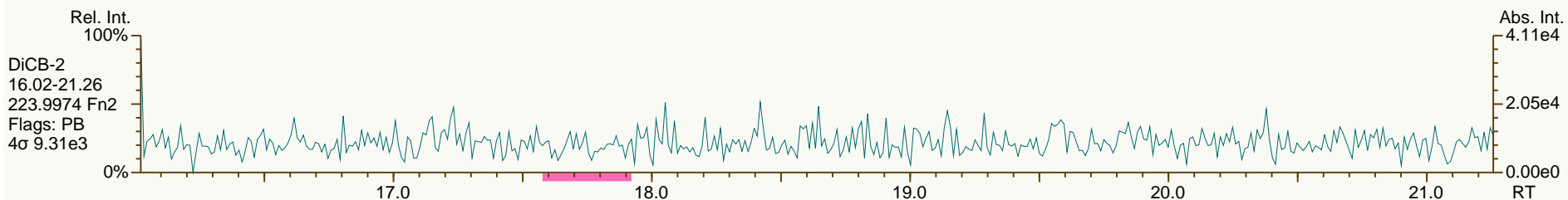
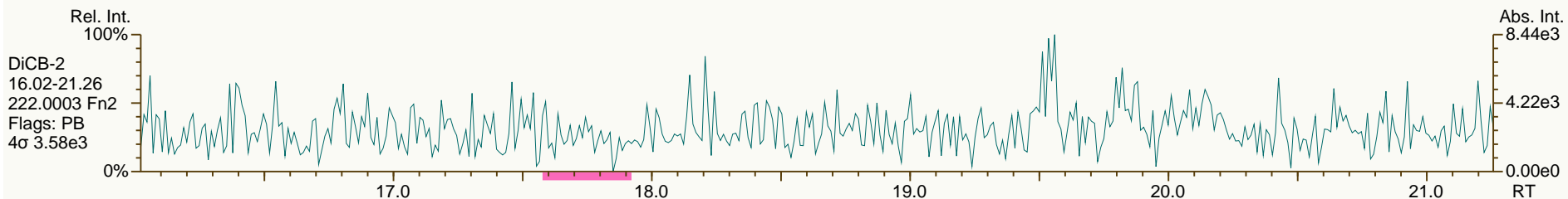
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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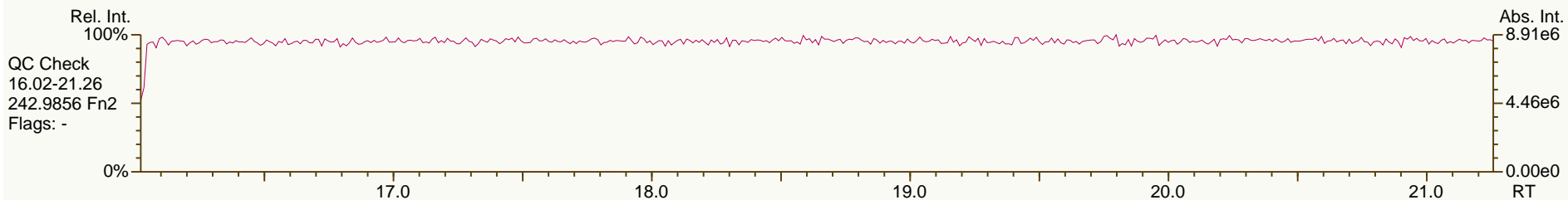
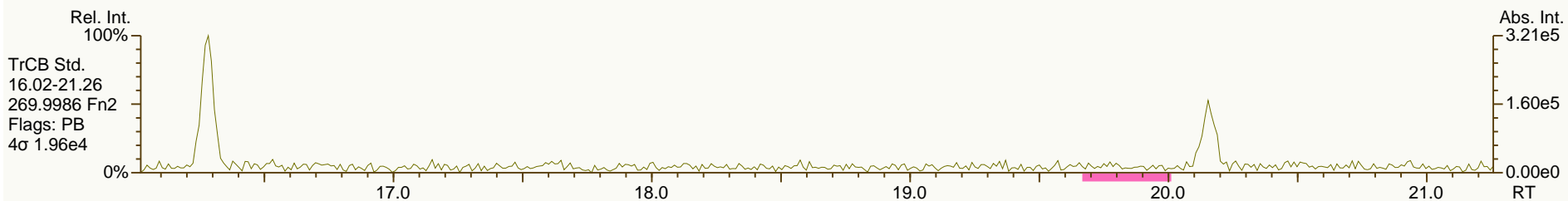
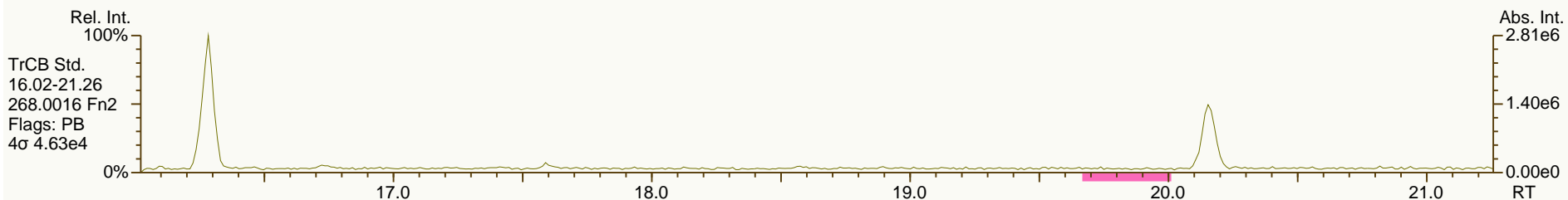
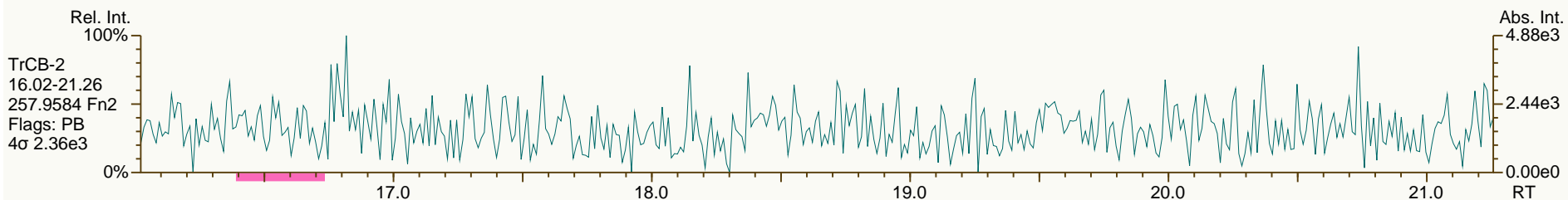
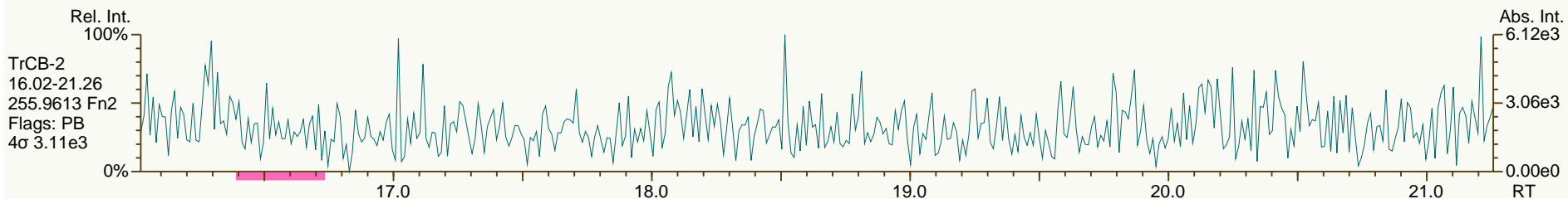
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SGS-AP ID: SBS\_140328\_PCB\_XC  
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Sample ID: SIL 13-42-1  
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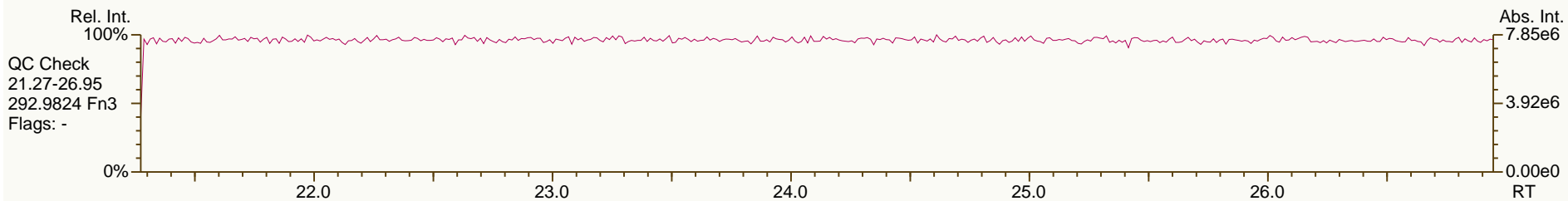
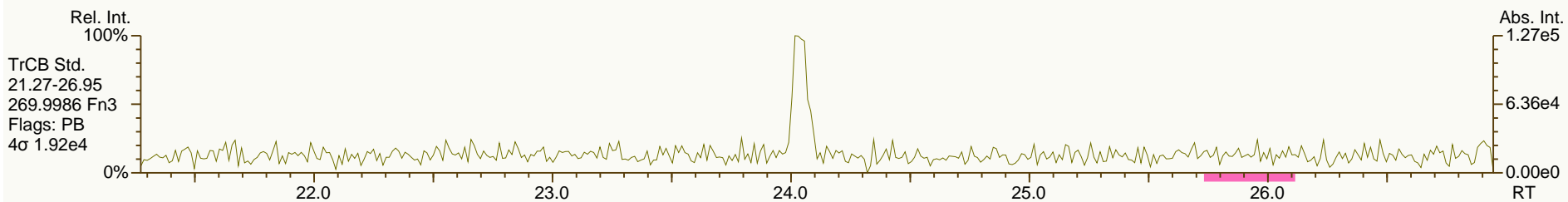
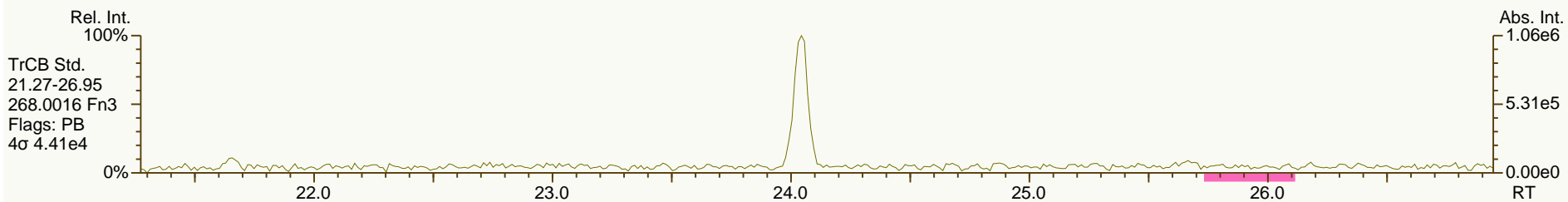
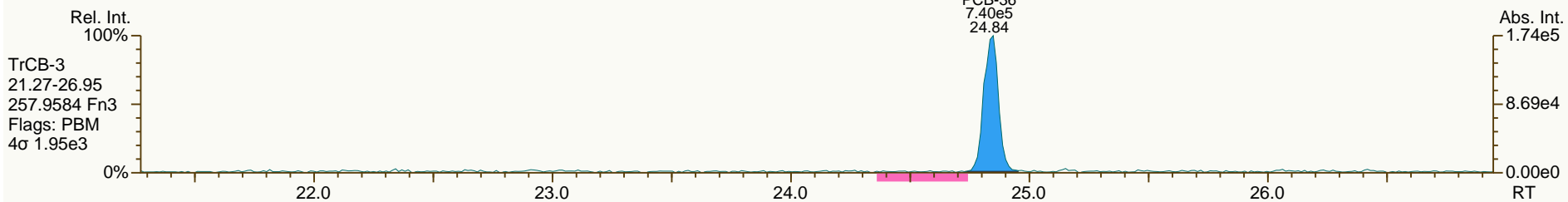
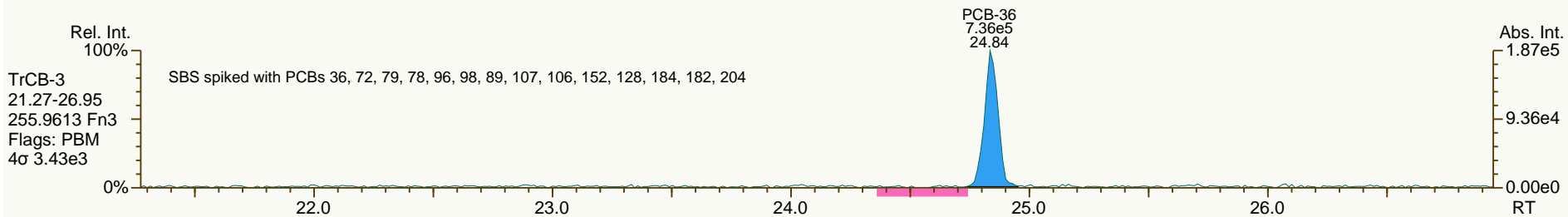




SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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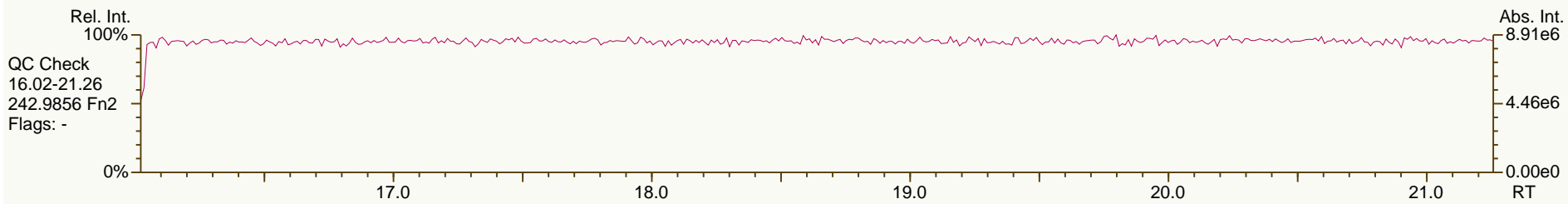
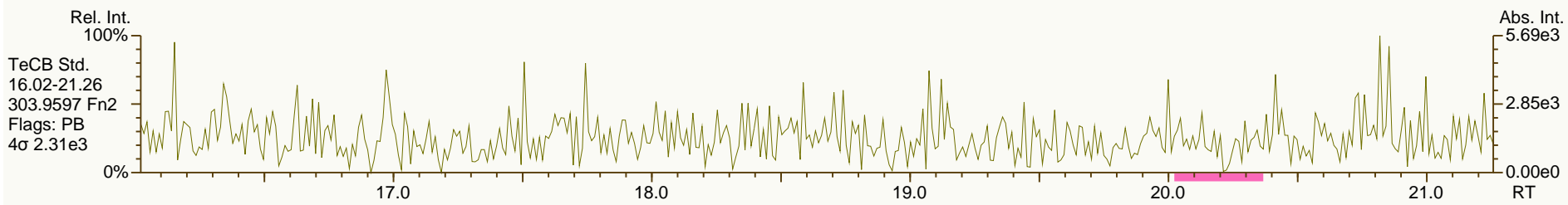
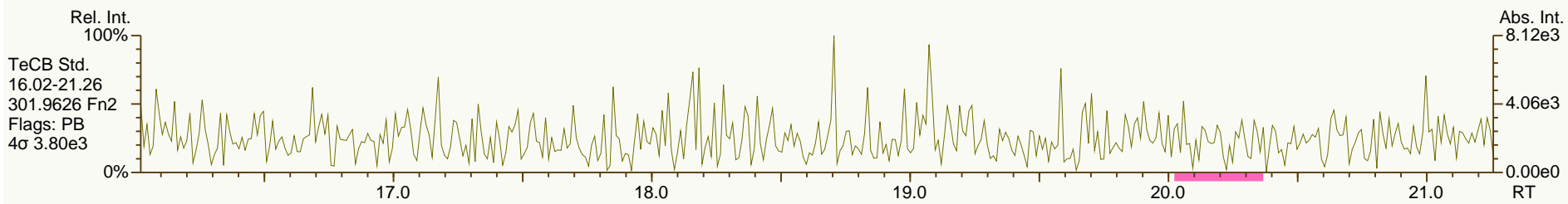
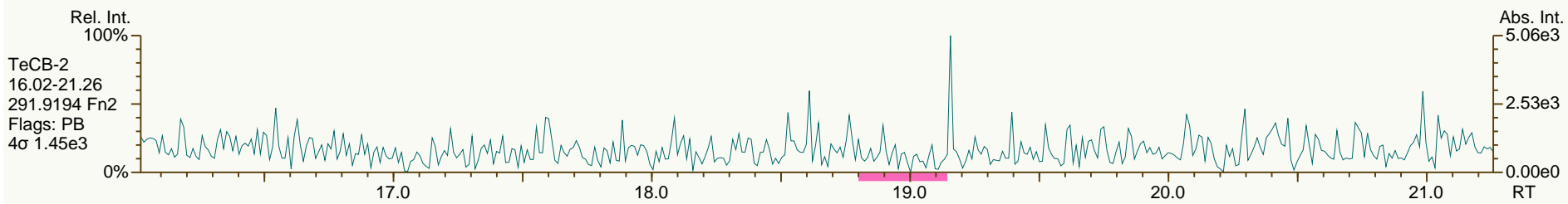
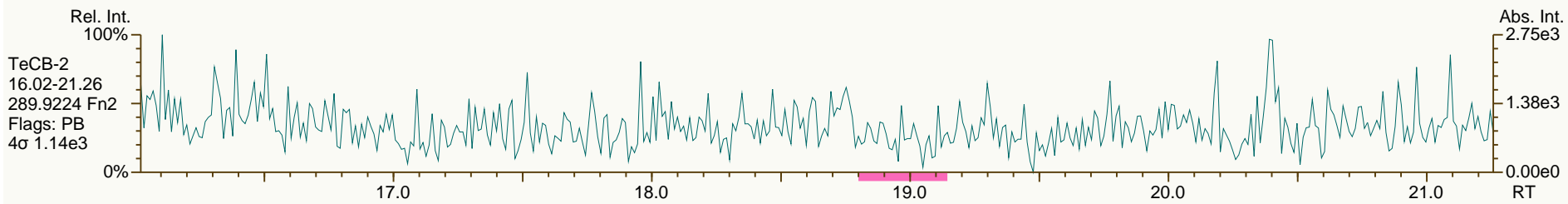
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 28-Mar-2014 18:50:44  
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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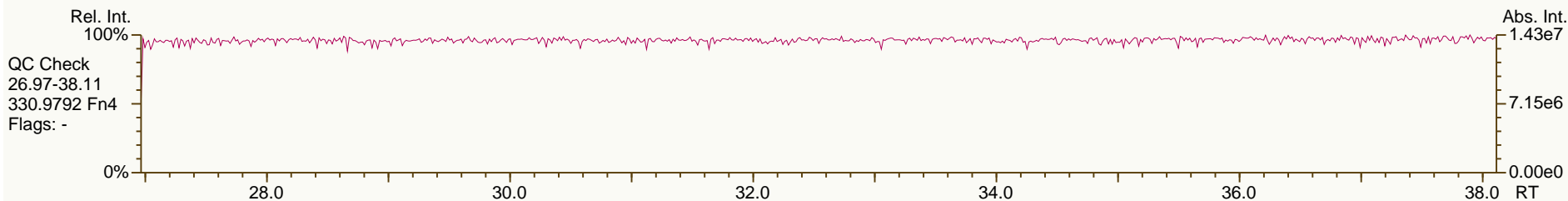
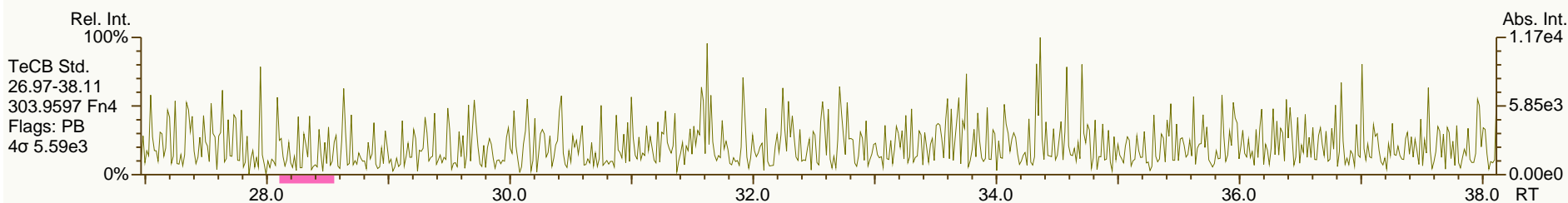
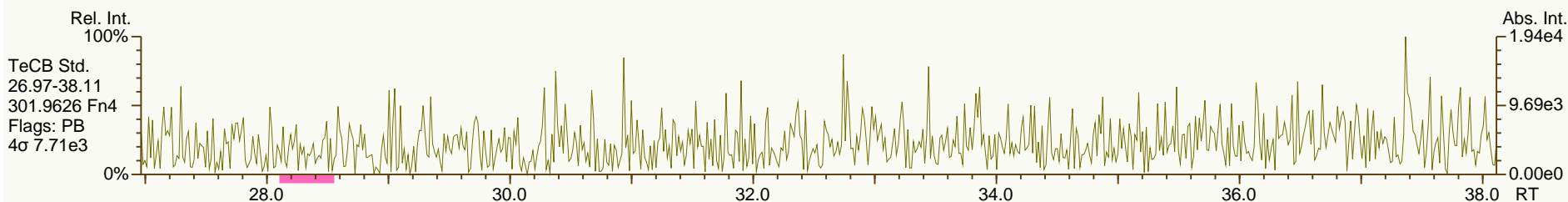
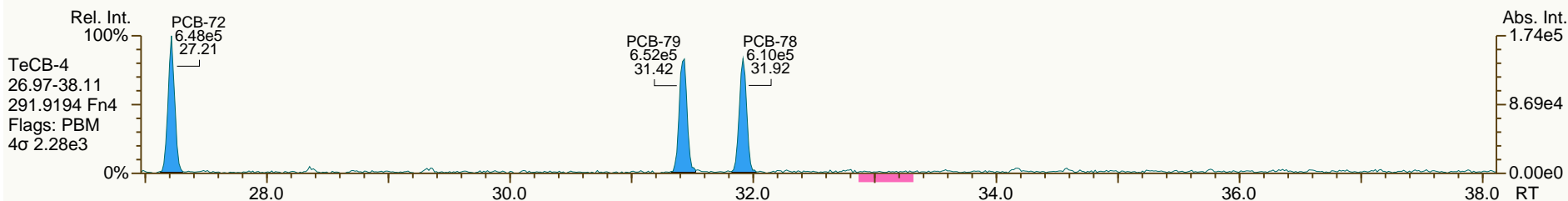
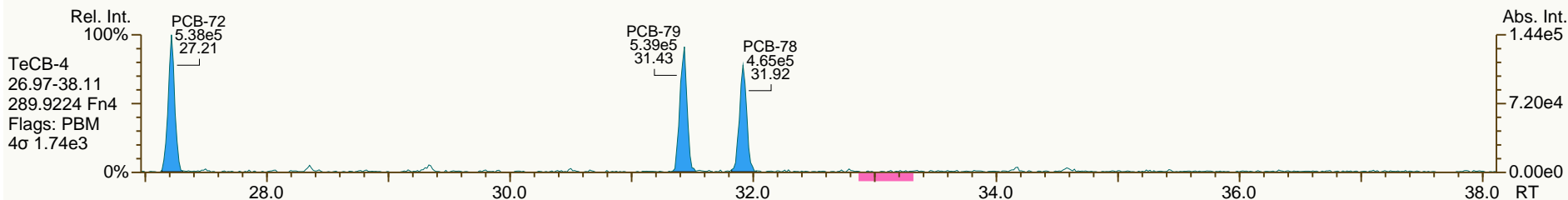
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SGS-AP ID: SBS\_140328\_PCB\_XC  
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Sample ID: SIL 13-42-1  
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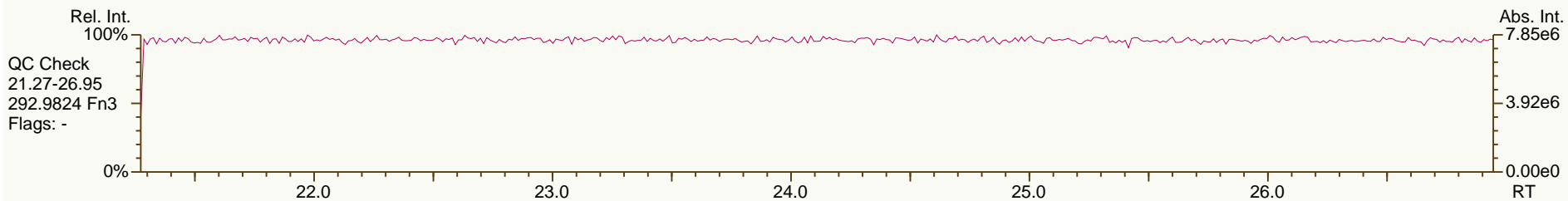
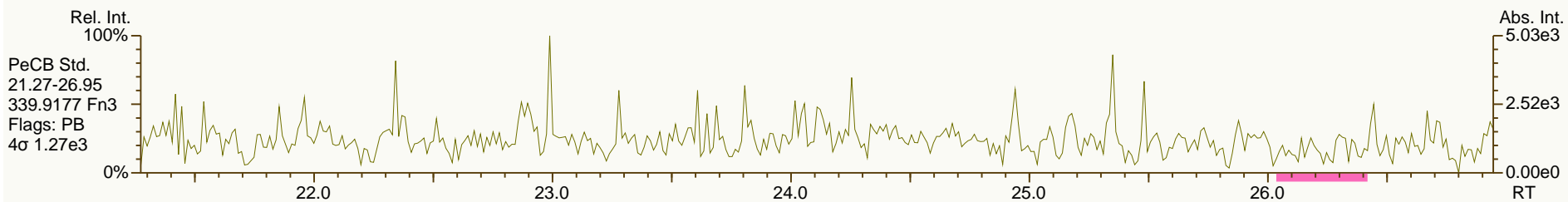
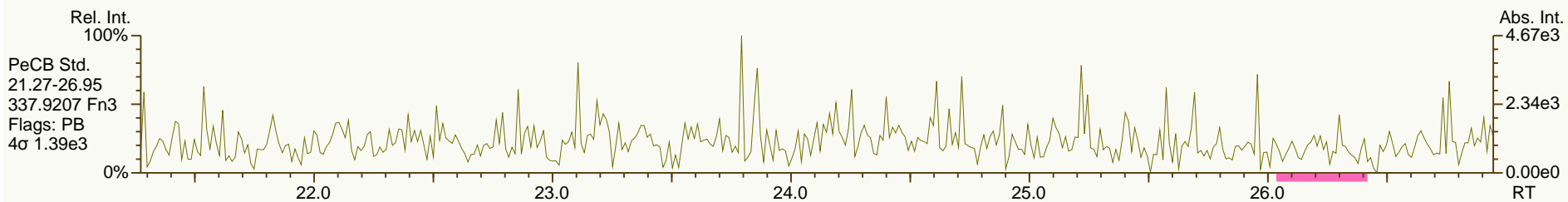
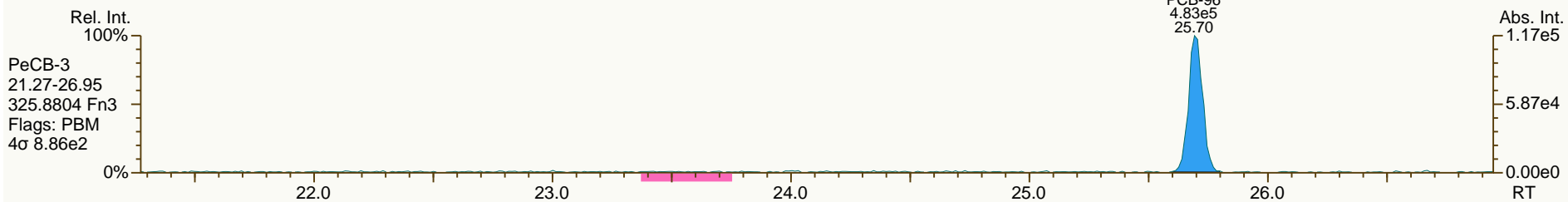
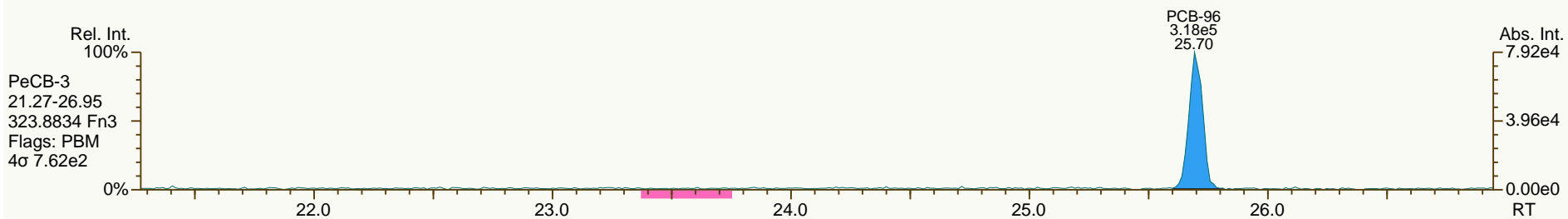
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

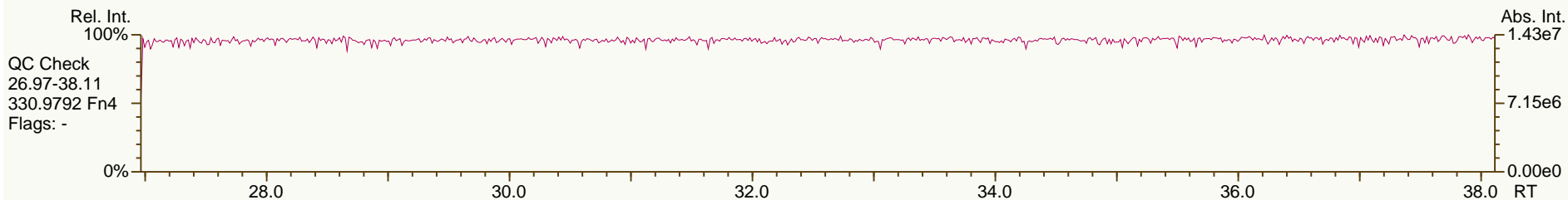
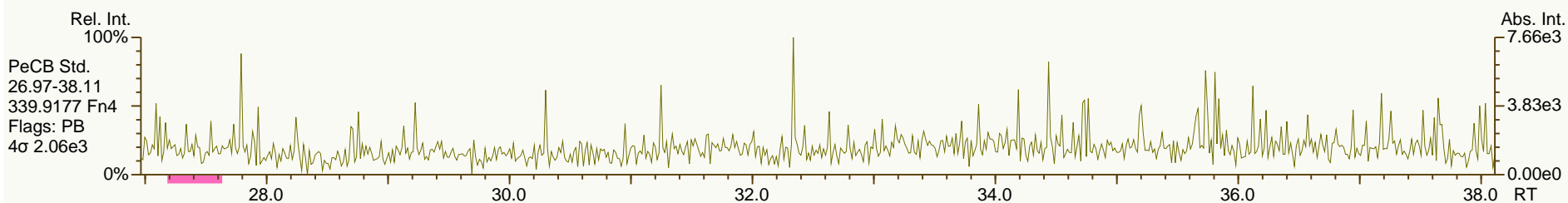
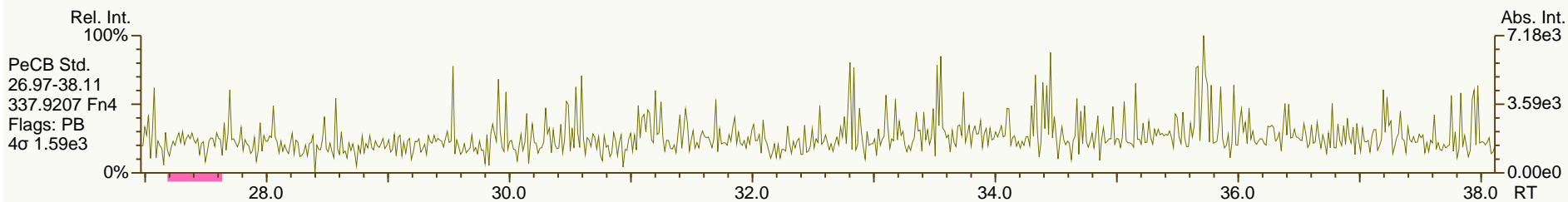
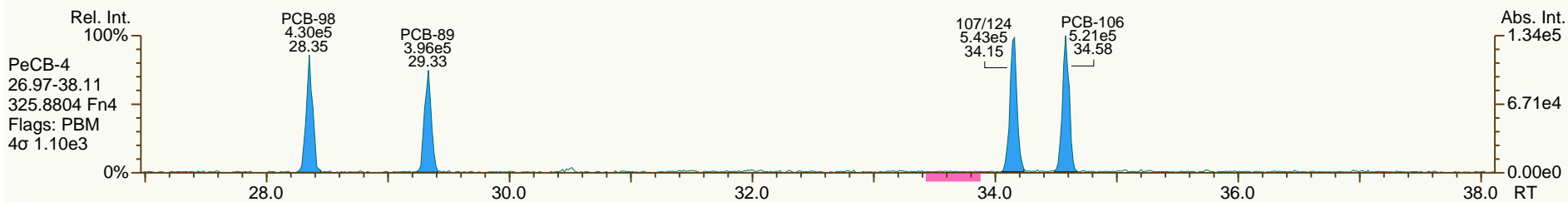
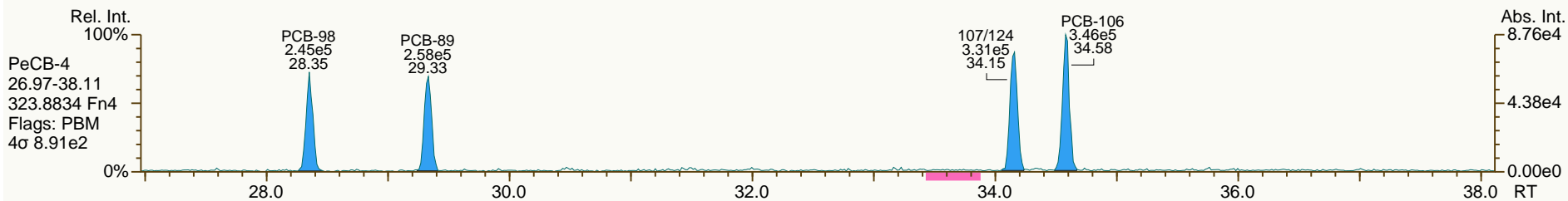
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SGS-AP ID: SBS\_140328\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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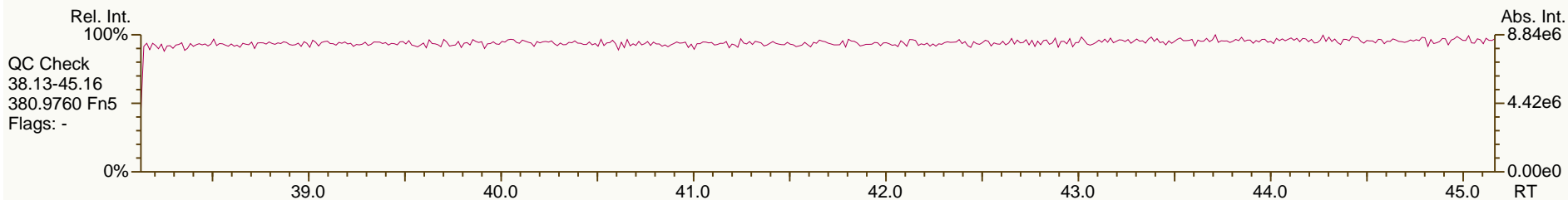
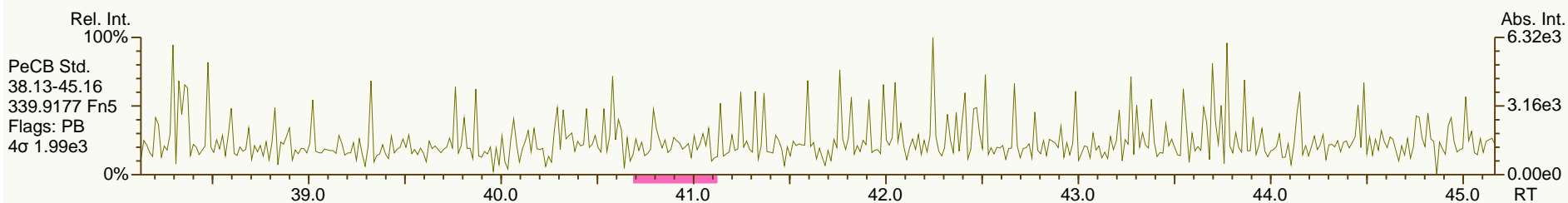
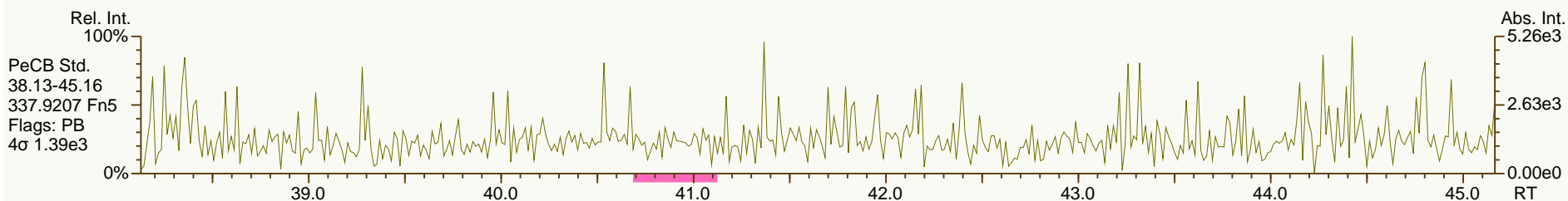
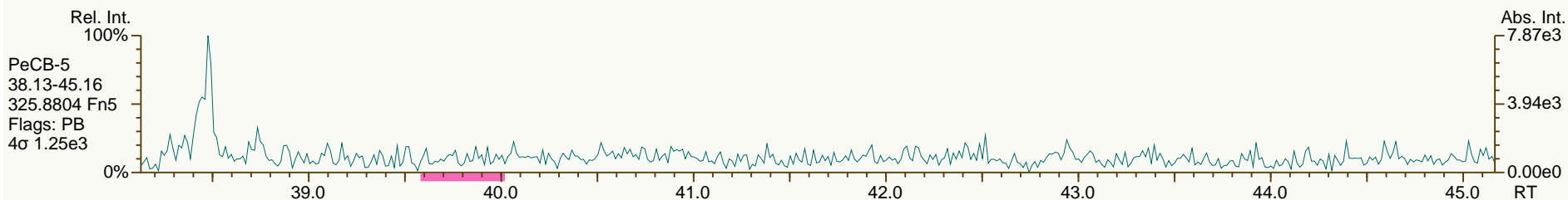
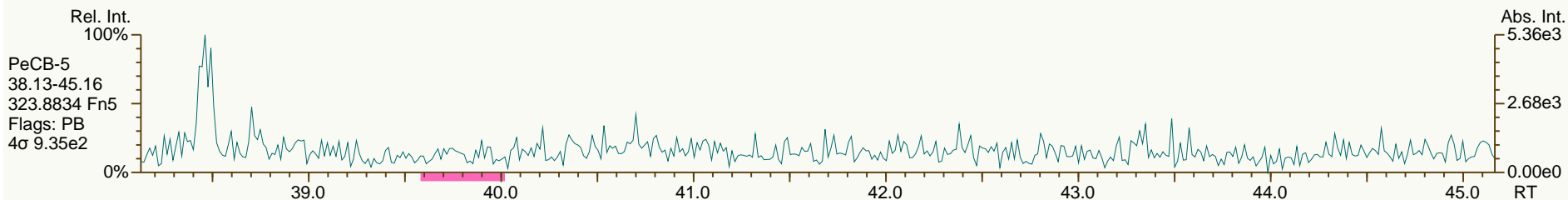
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Instr: AutoSpec-Premier MM7

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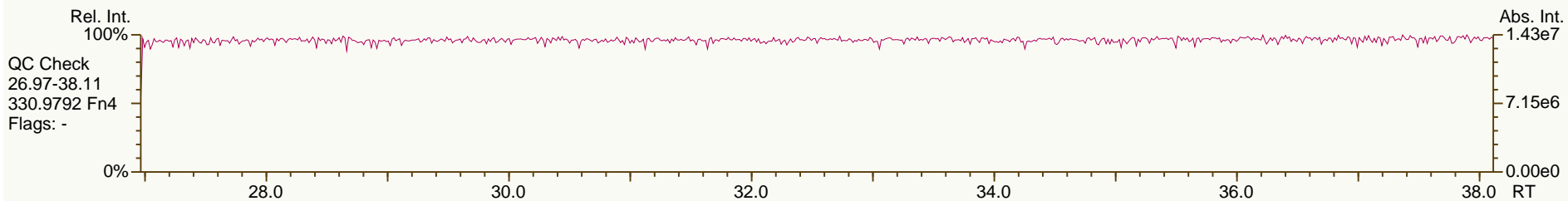
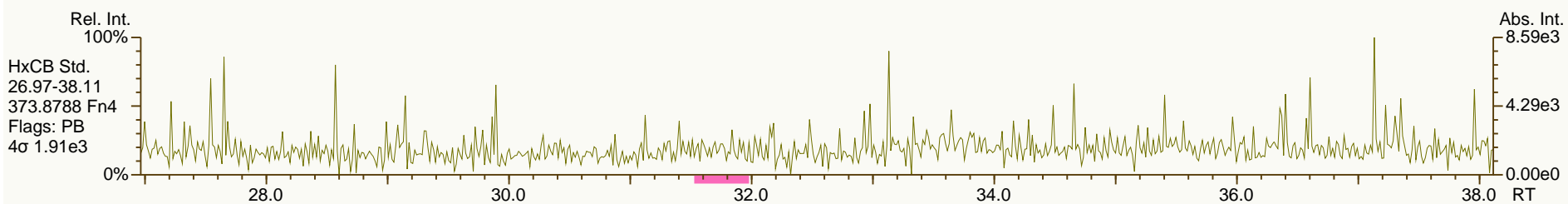
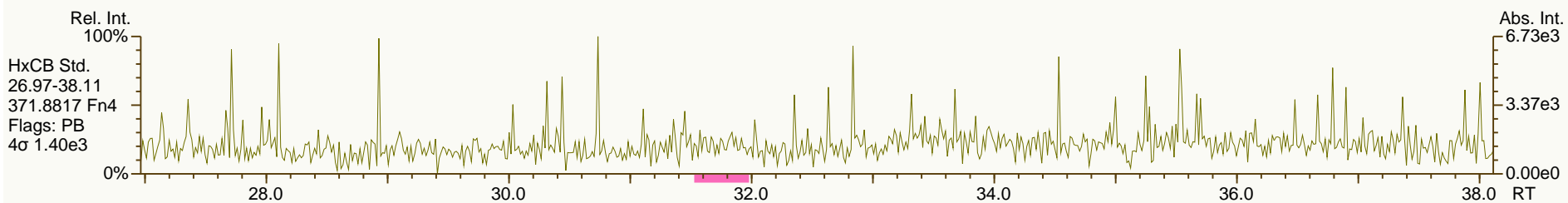
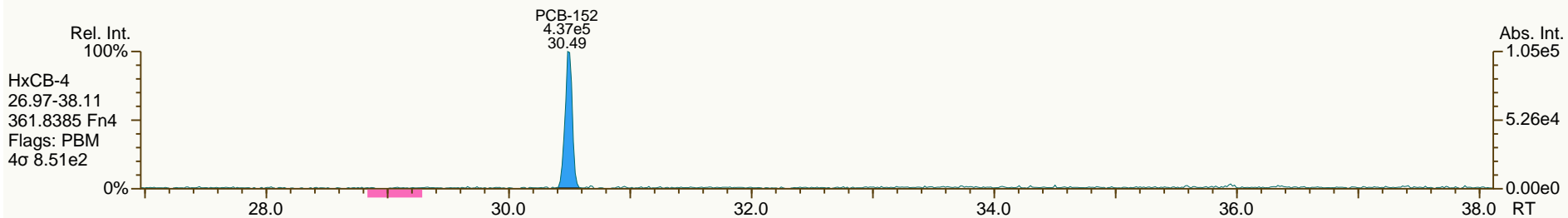
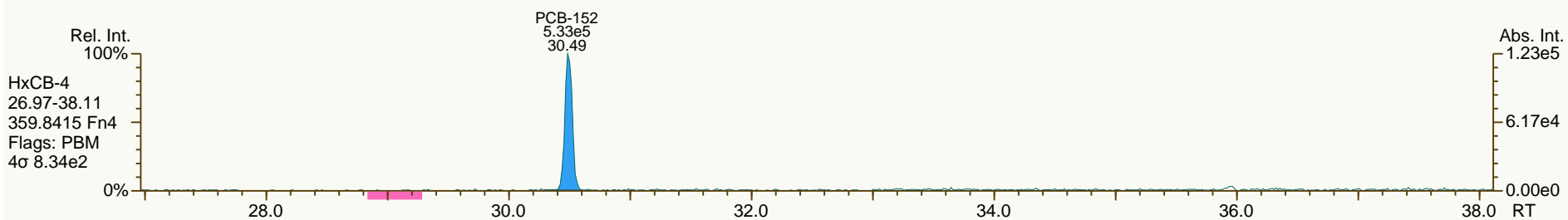
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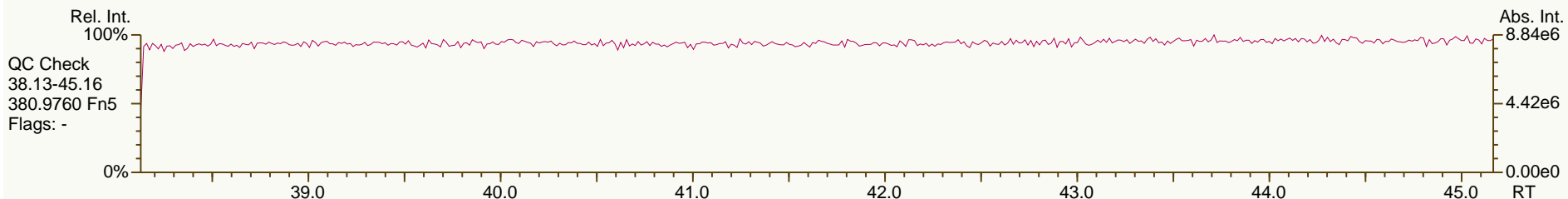
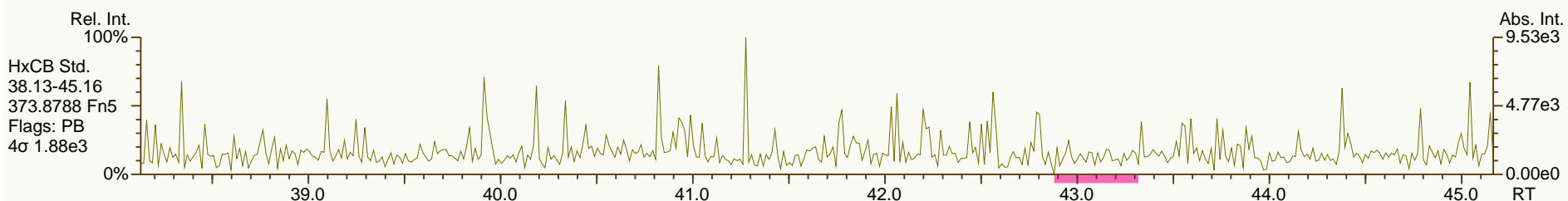
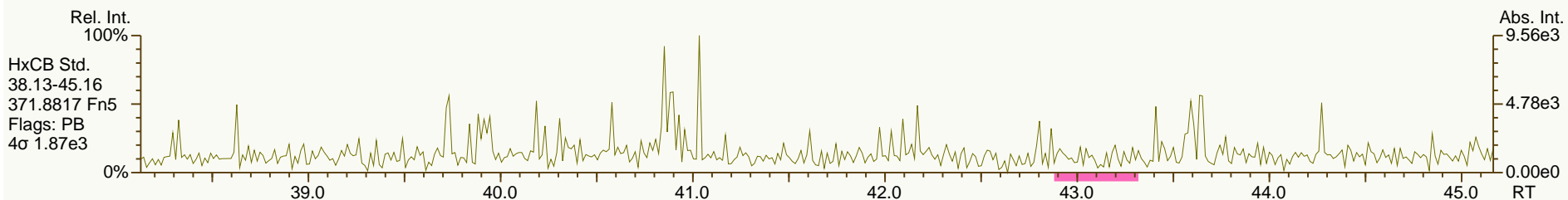
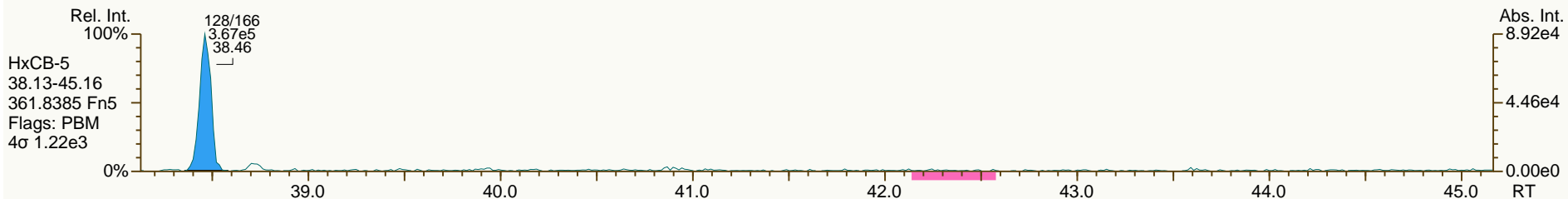
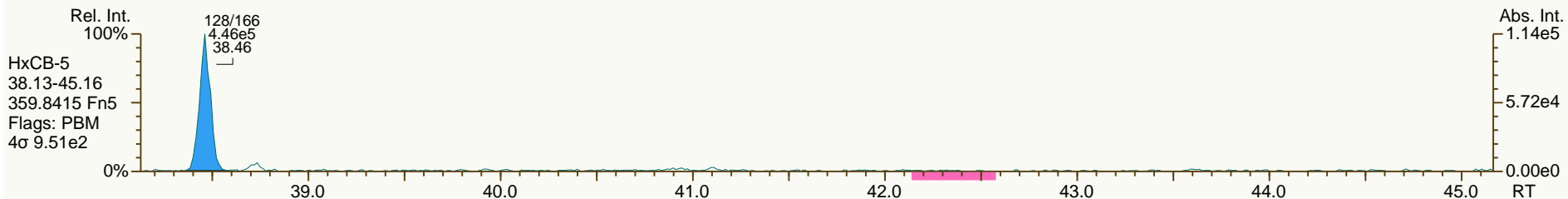




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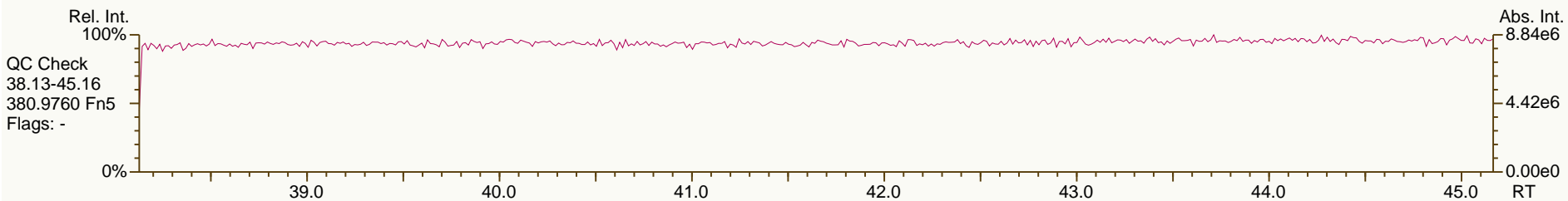
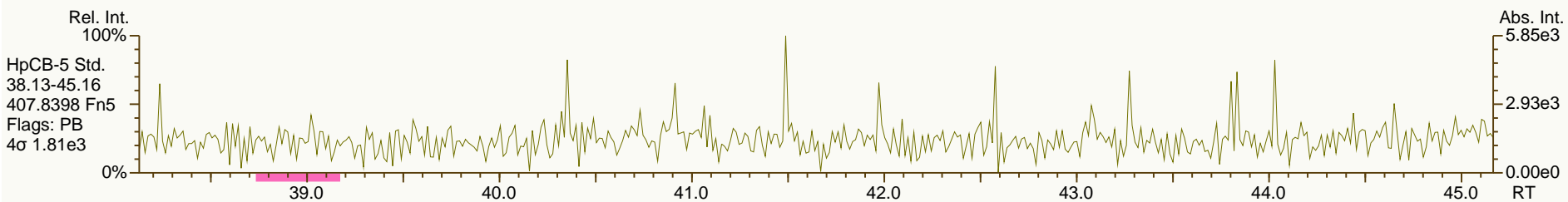
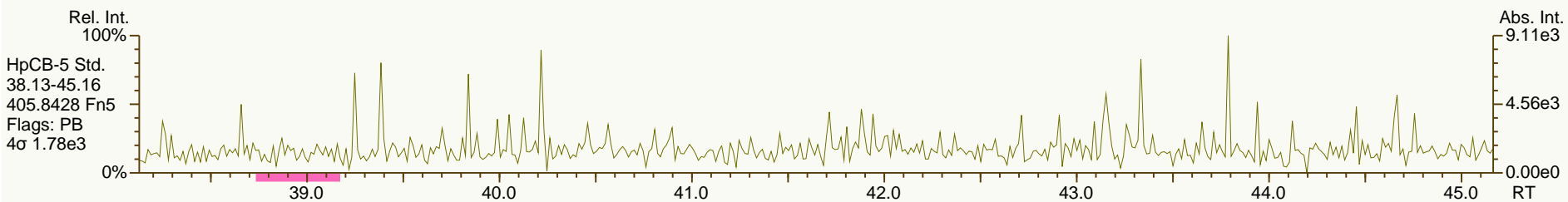
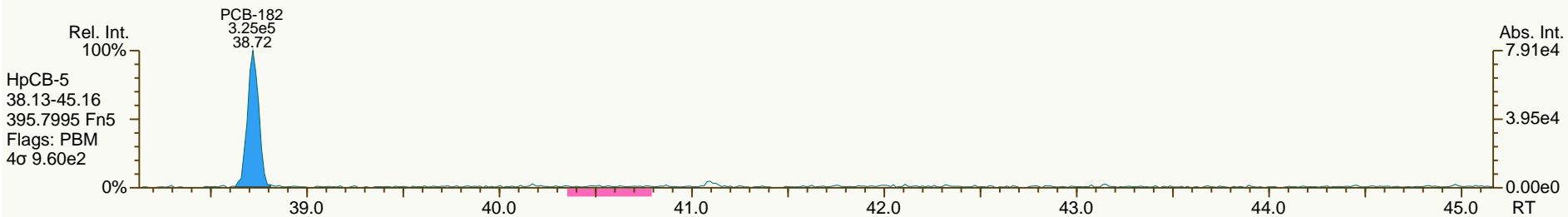
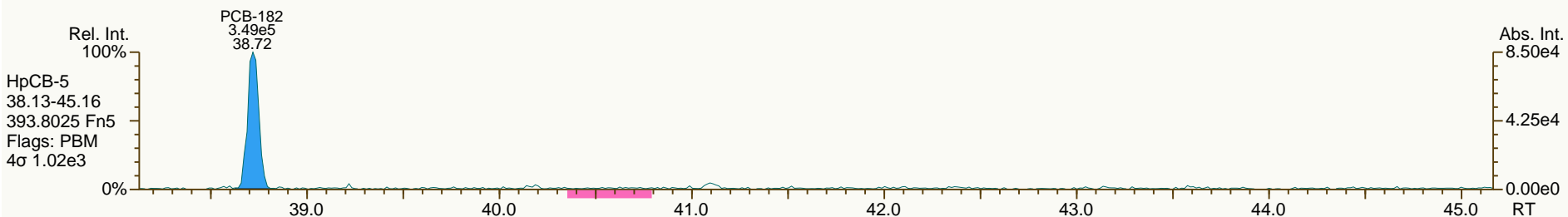
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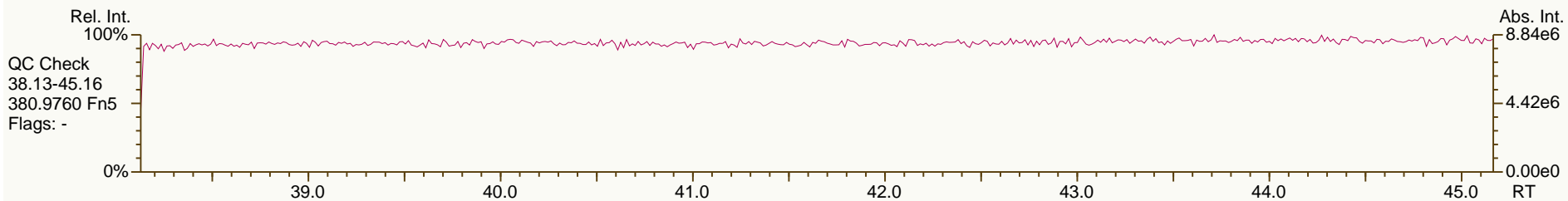
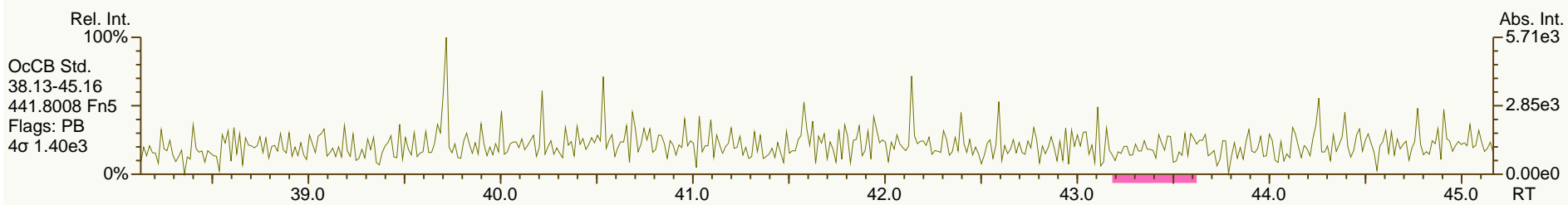
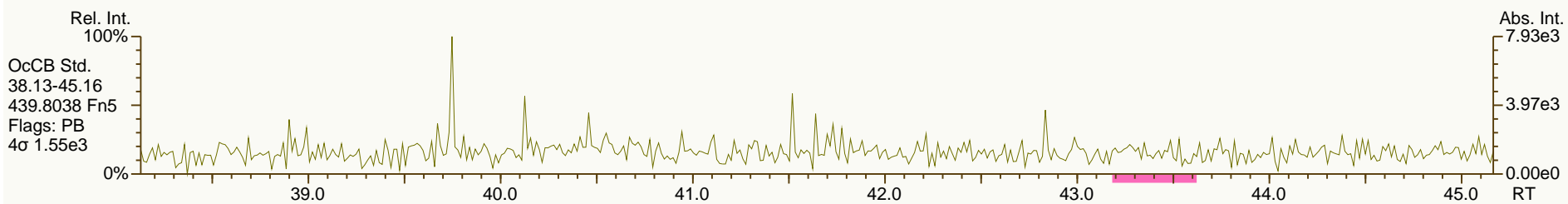
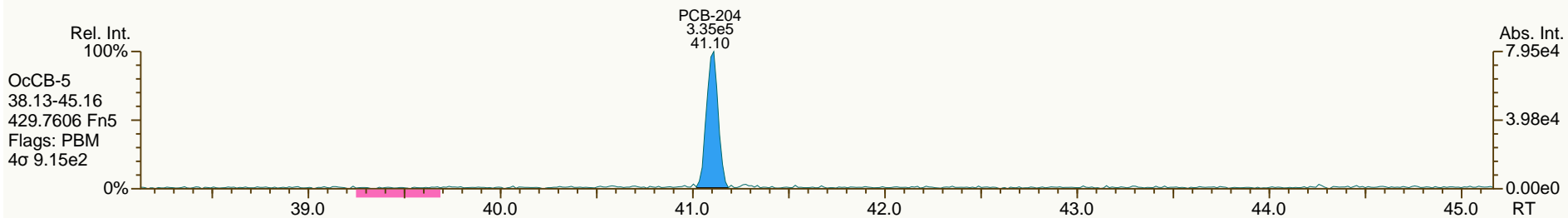
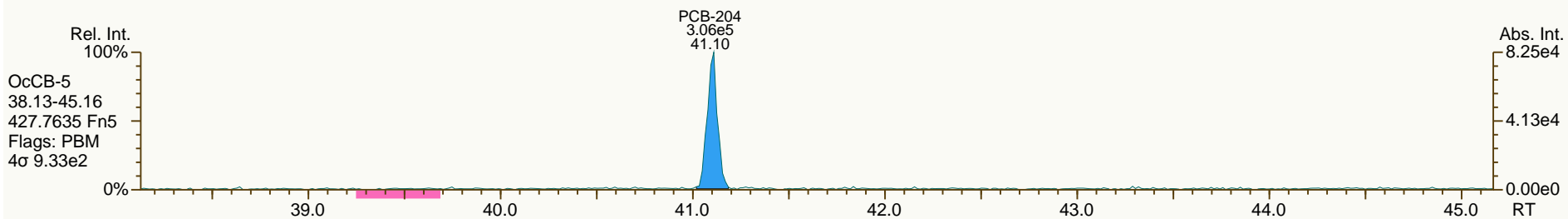
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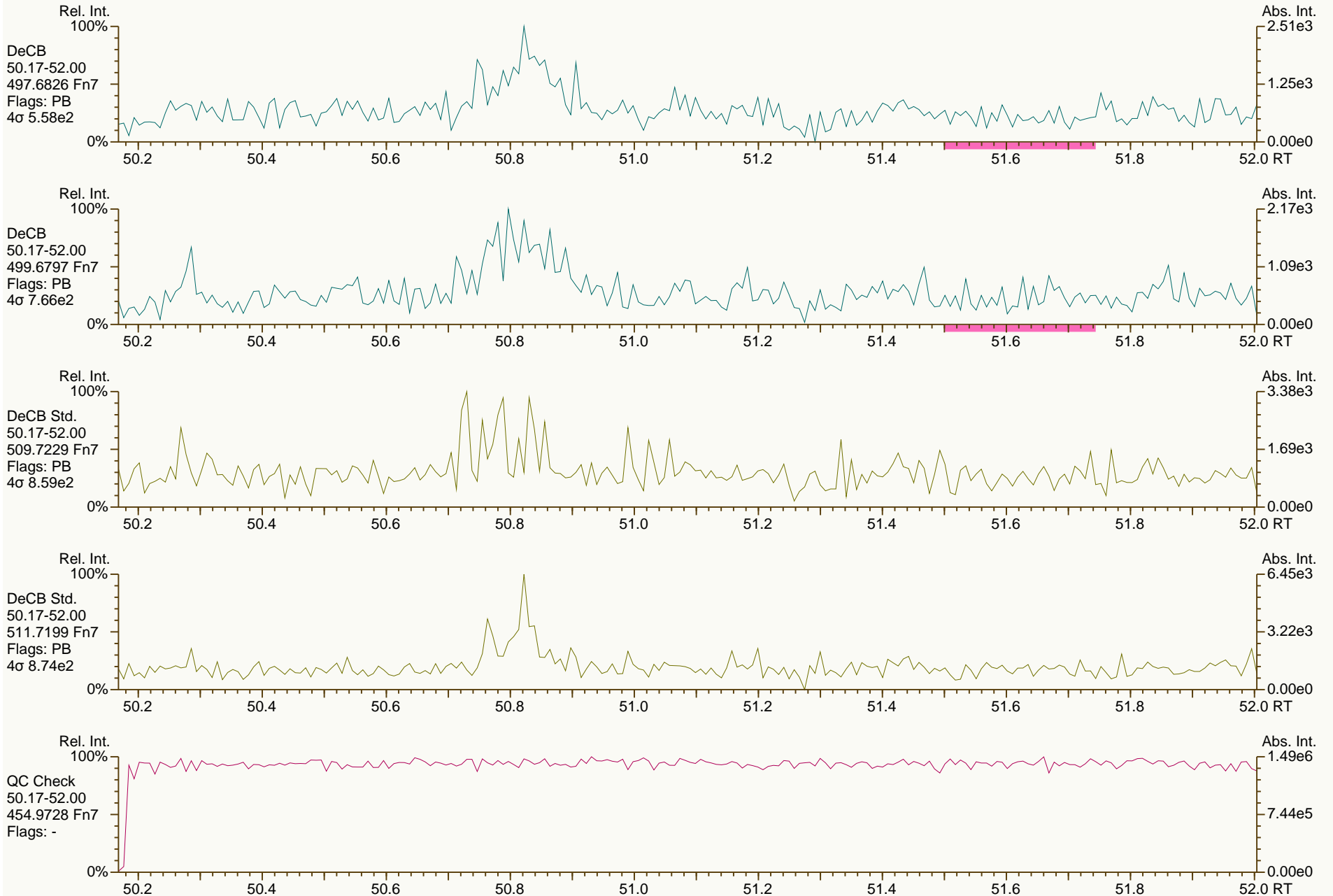
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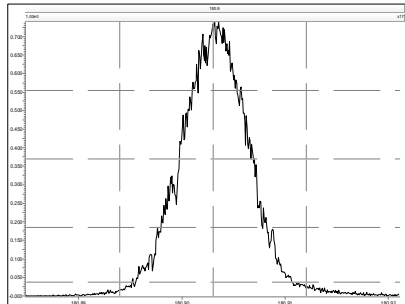
## Resolution Check Report

MassLynx 4.1 SCN 881

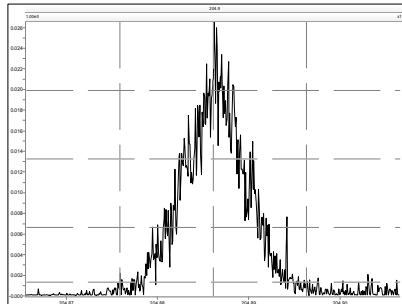
Page 1 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

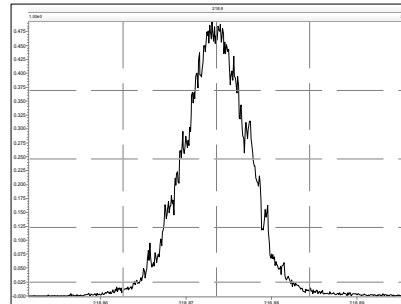
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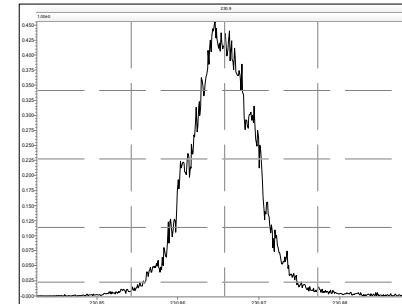
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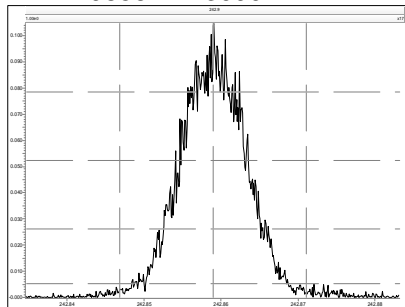
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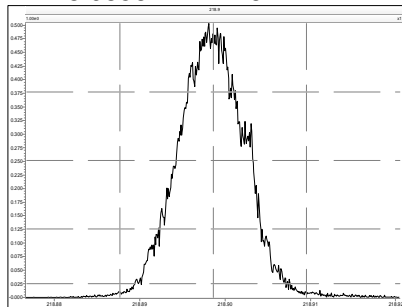
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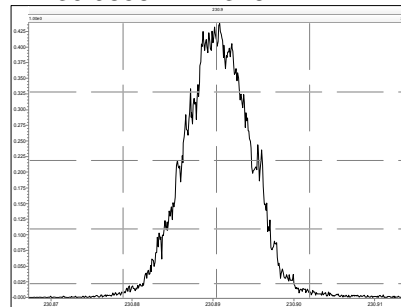
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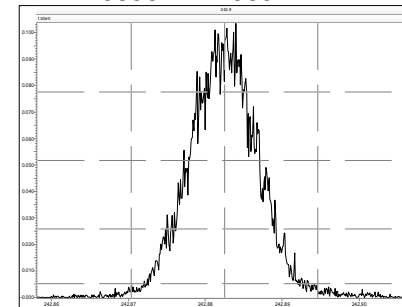
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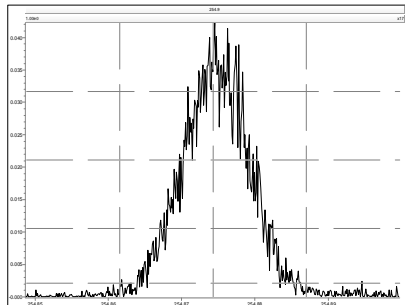
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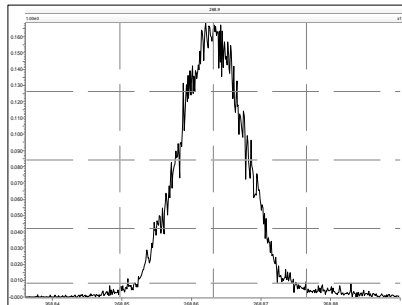
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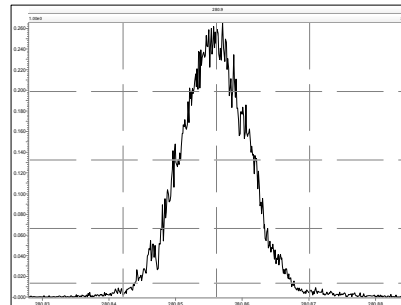
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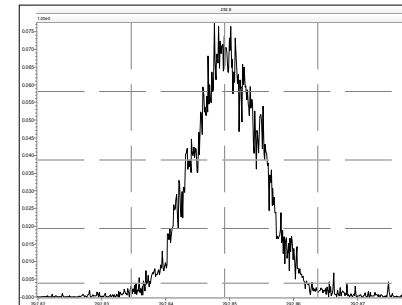
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M 280.9824 R 11932



M 292.9824 R 12588



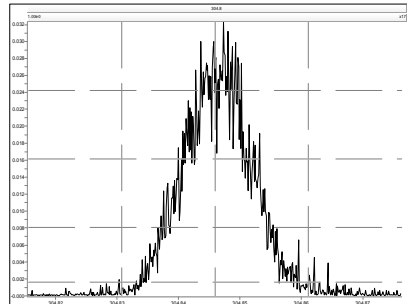
## Resolution Check Report

MassLynx 4.1 SCN 881

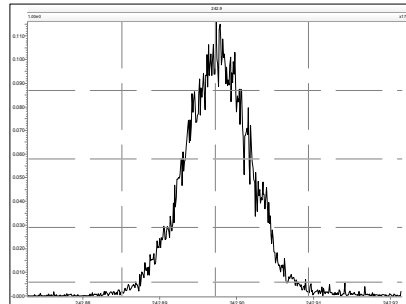
Page 2 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

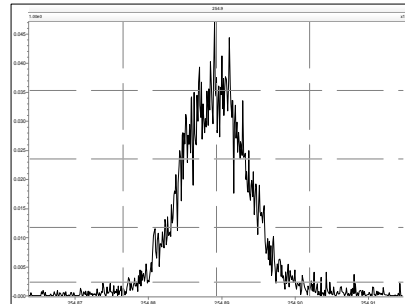
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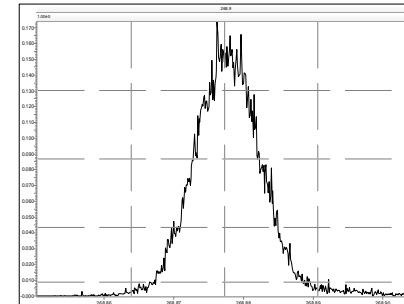
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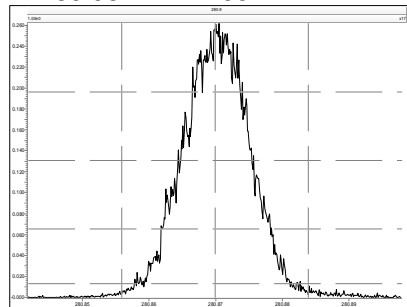
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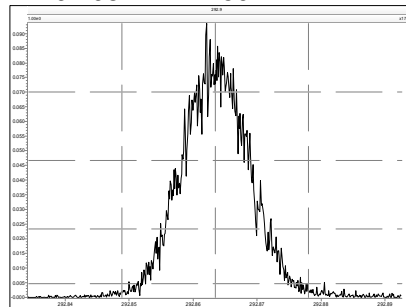
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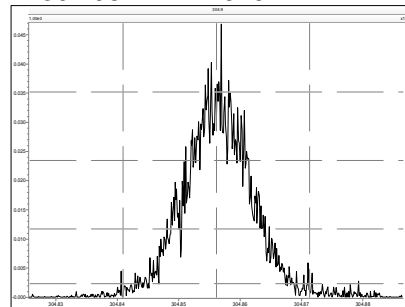
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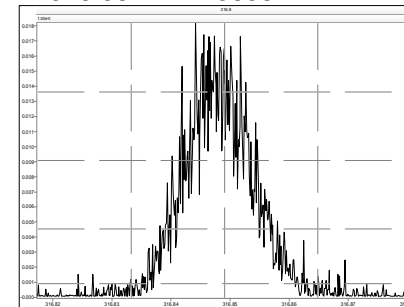
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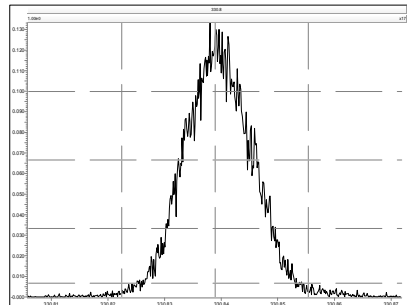
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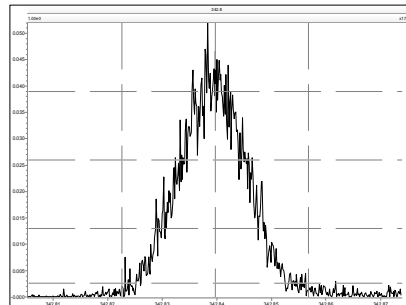
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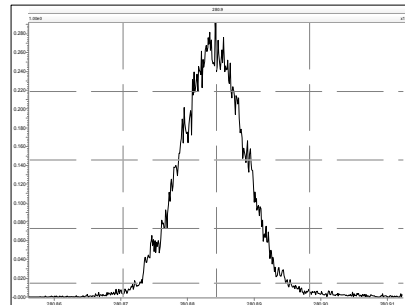
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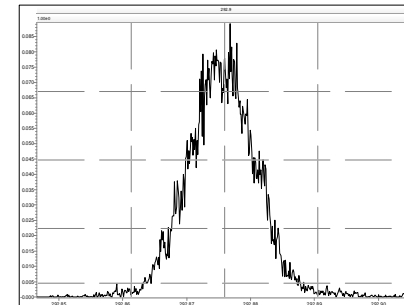
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M 280.9824 R 12626



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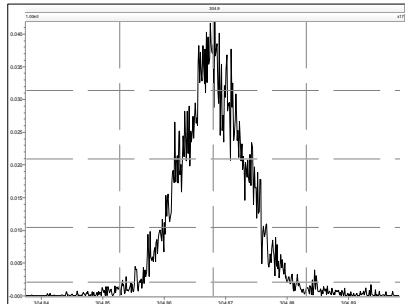


Resolution Check Report

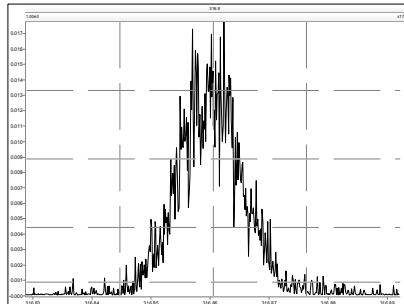
MassLynx 4.1 SCN 881

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

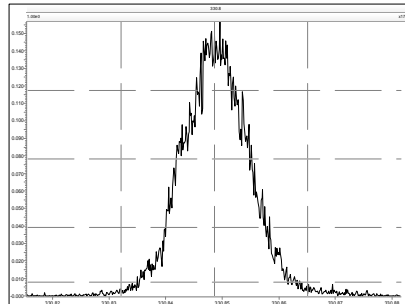
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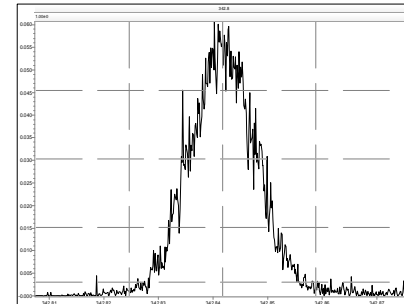
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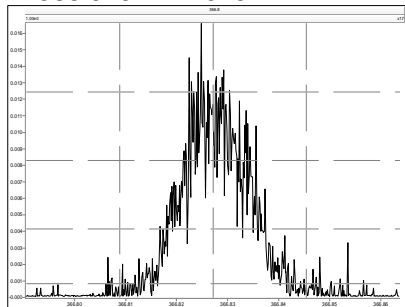
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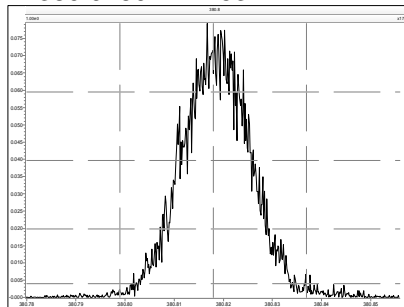
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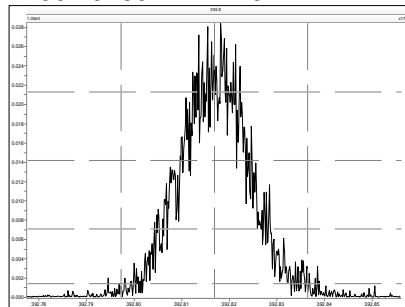
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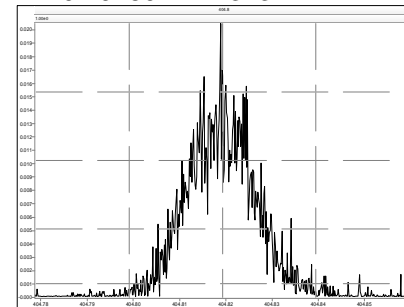
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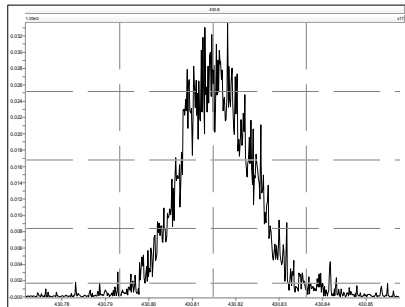
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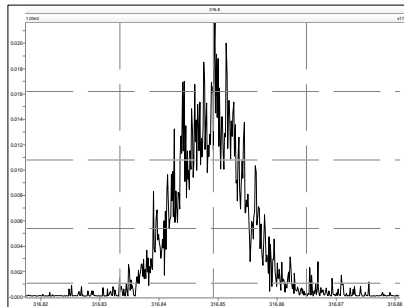
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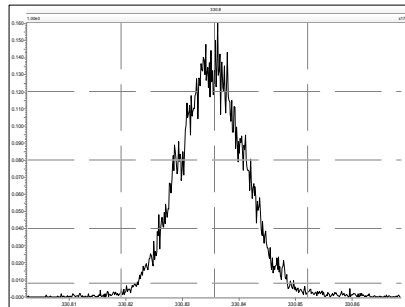
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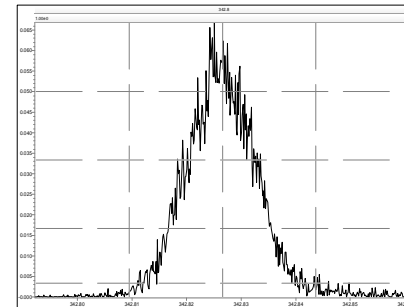
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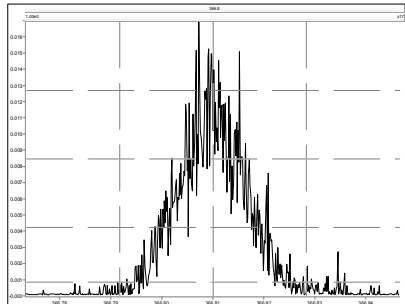


Resolution Check Report

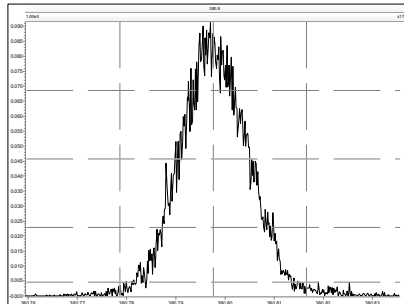
MassLynx 4.1 SCN 881

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

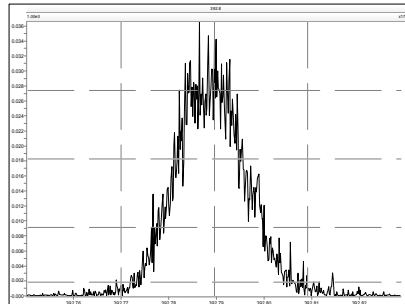
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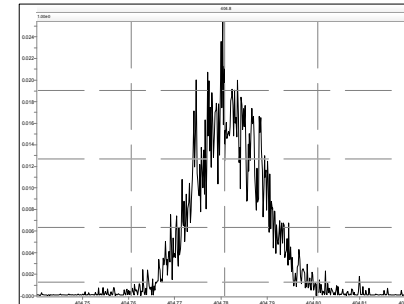
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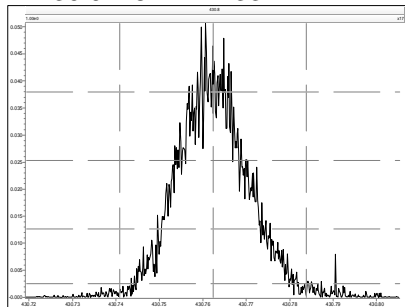
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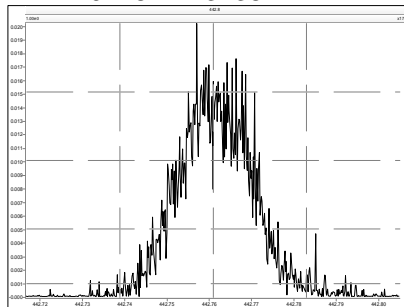
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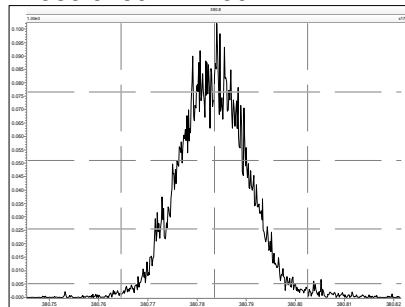
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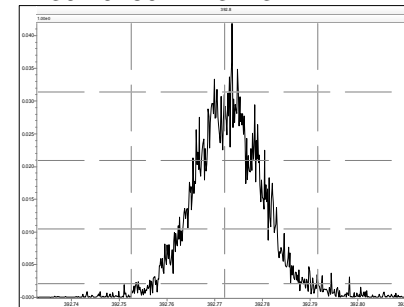
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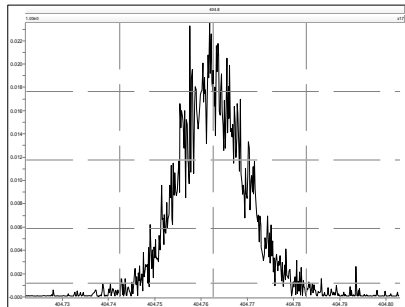
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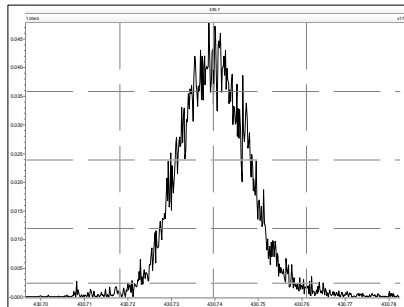
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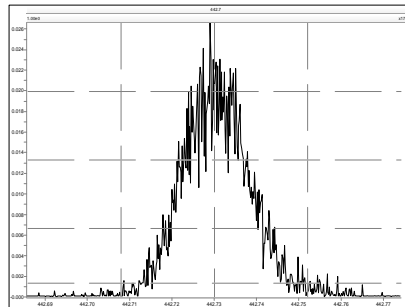
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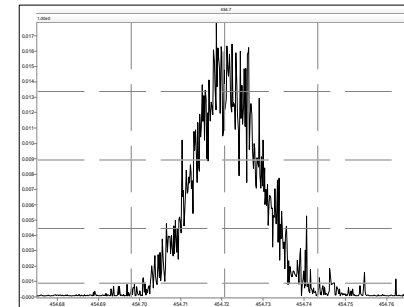
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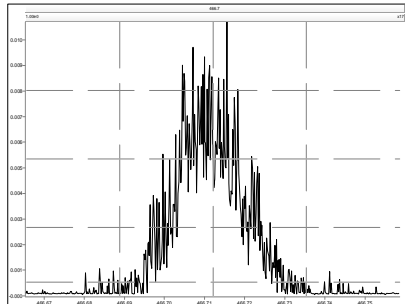
## Resolution Check Report

MassLynx 4.1 SCN 881

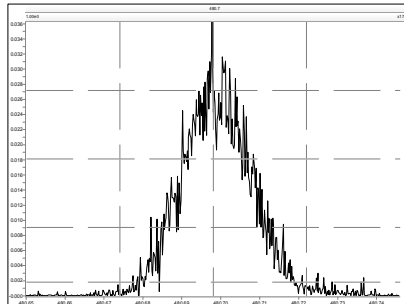
Page 5 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

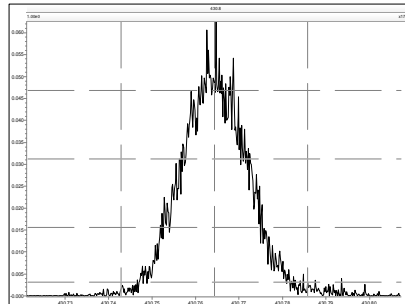
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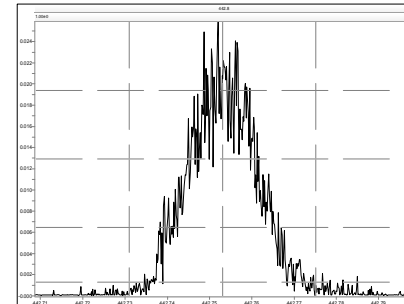
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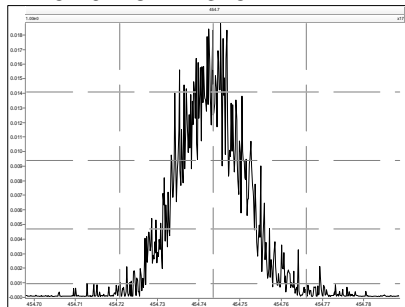
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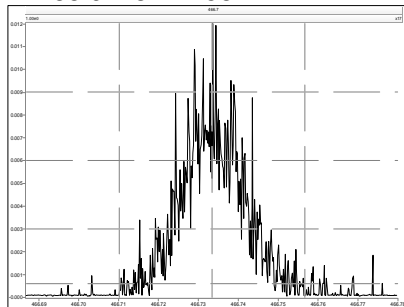
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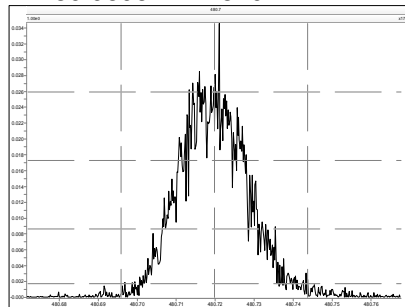
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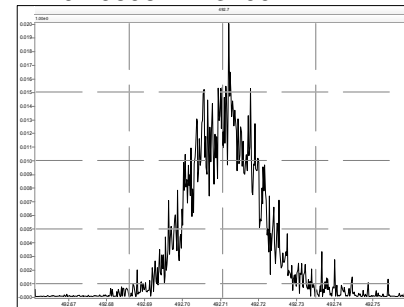
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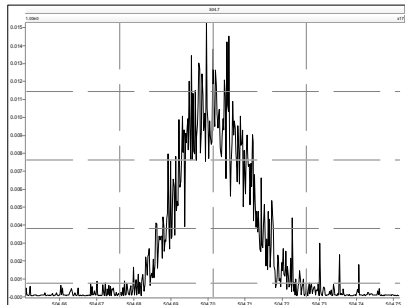
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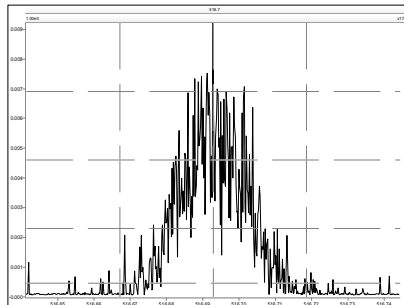
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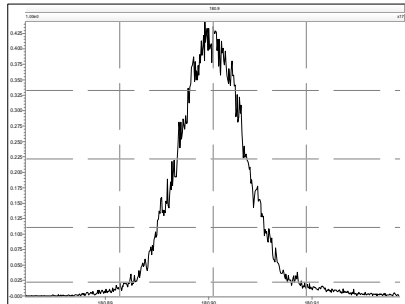
## Resolution Check Report

MassLynx 4.1 SCN 881

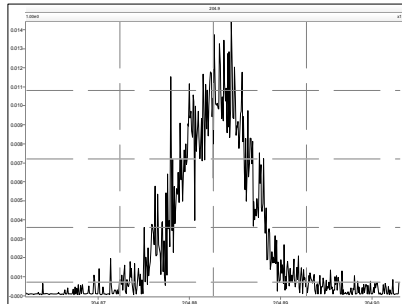
Page 1 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

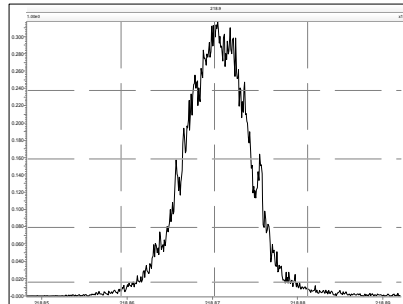
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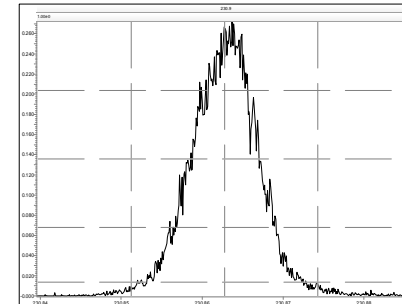
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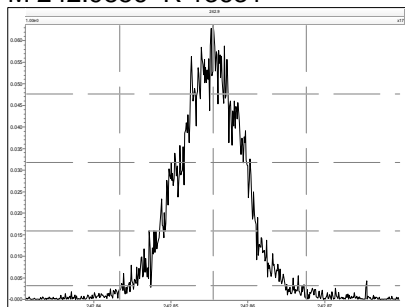
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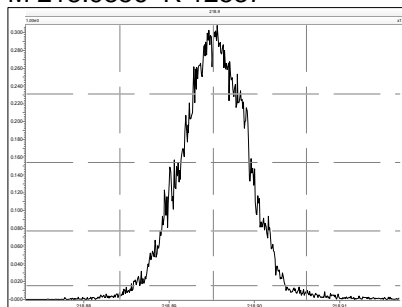
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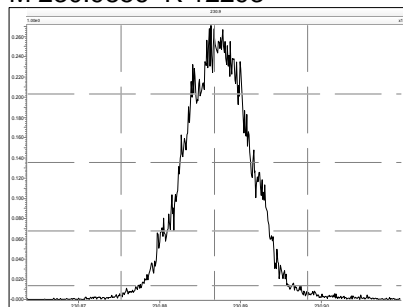
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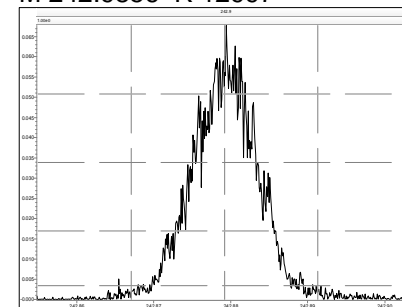
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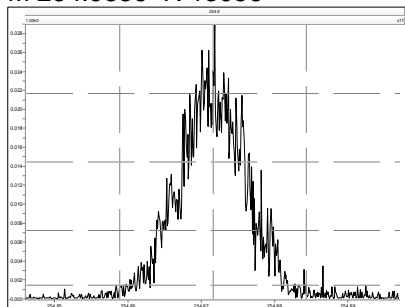
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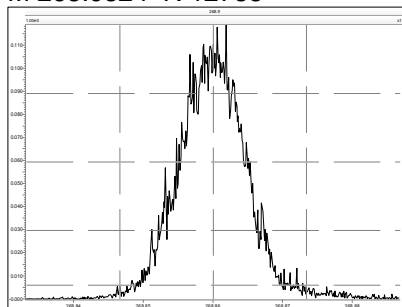
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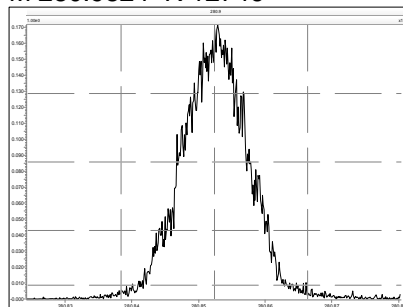
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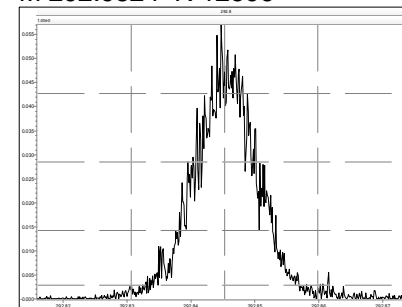
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M 280.9824 R 12746



M 292.9824 R 12596

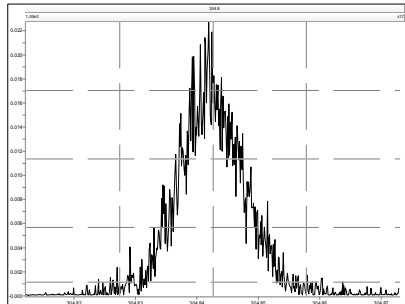


Resolution Check Report

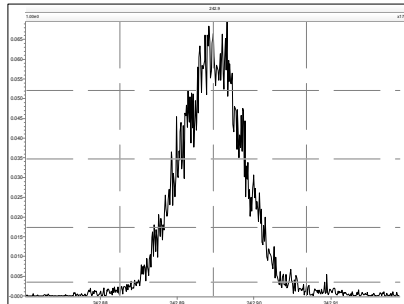
MassLynx 4.1 SCN 881

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

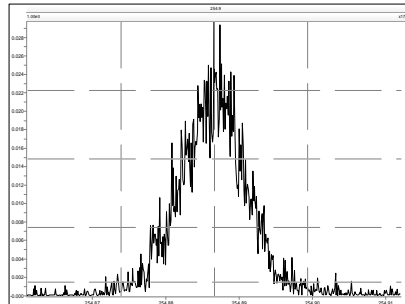
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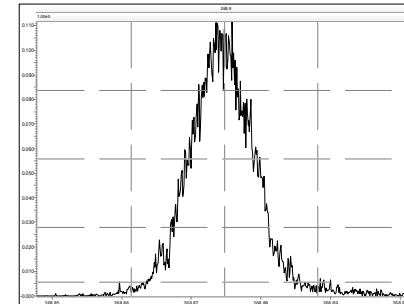
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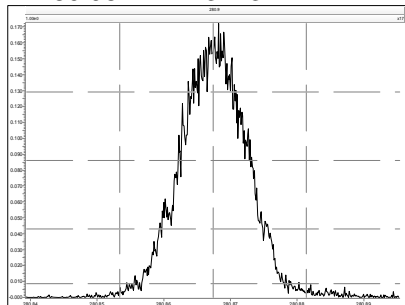
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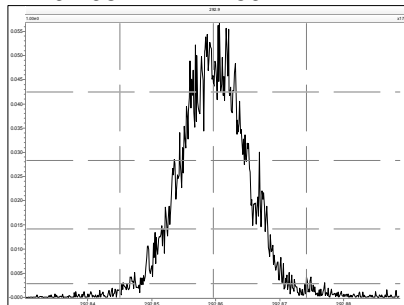
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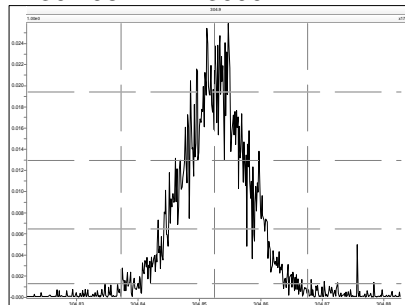
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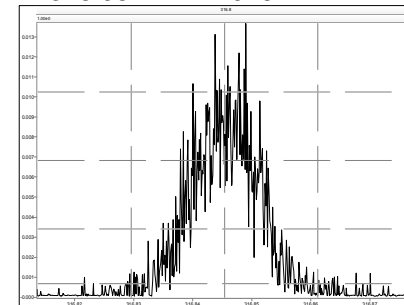
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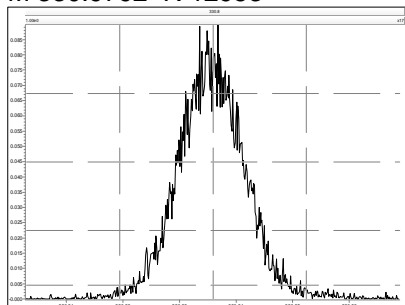
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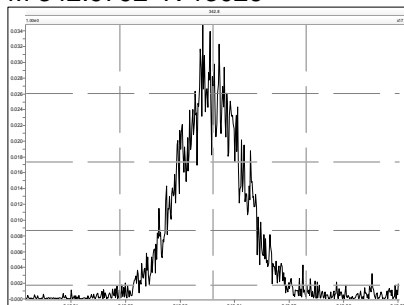
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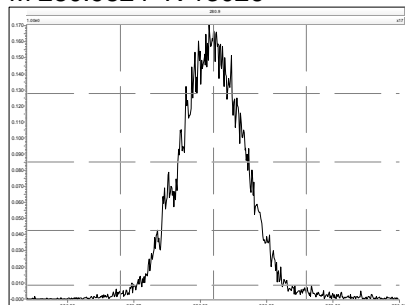
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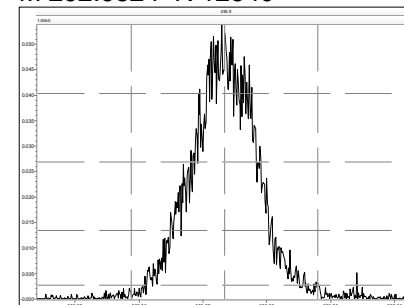
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M 280.9824 R 13026



M 292.9824 R 12540



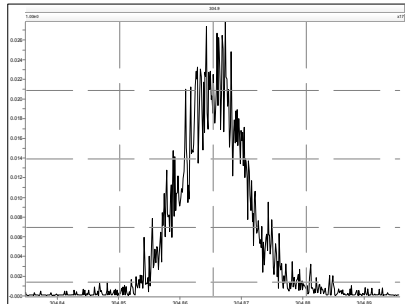
## Resolution Check Report

MassLynx 4.1 SCN 881

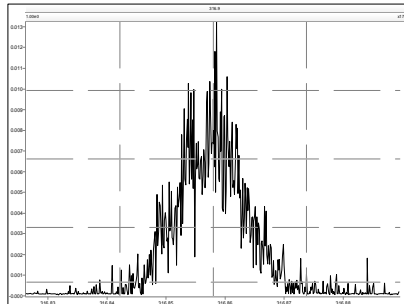
Page 3 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

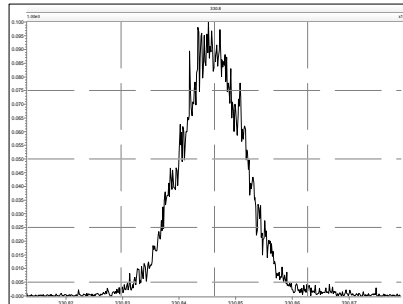
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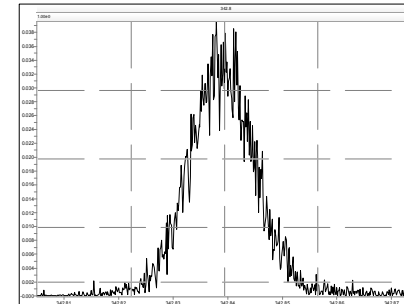
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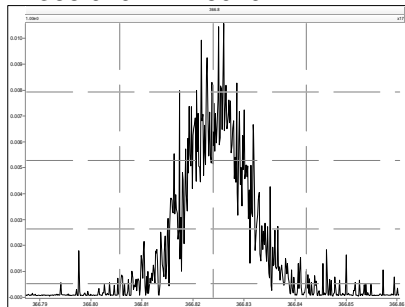
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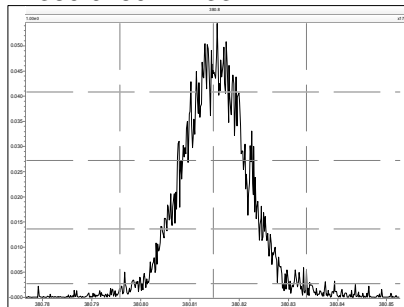
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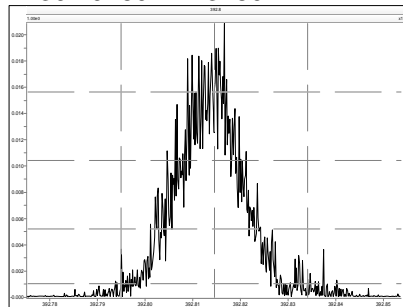
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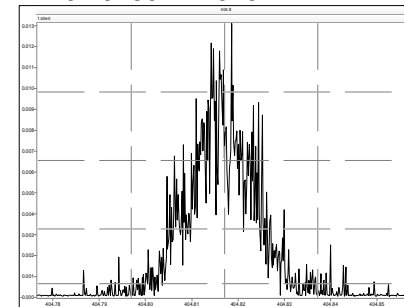
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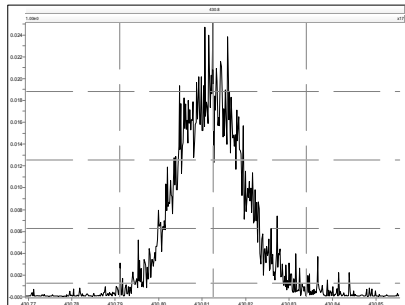
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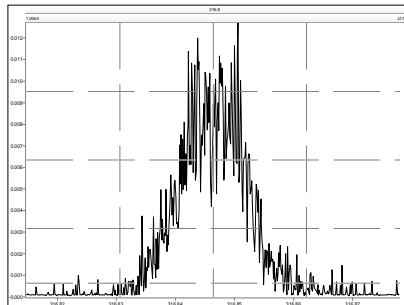
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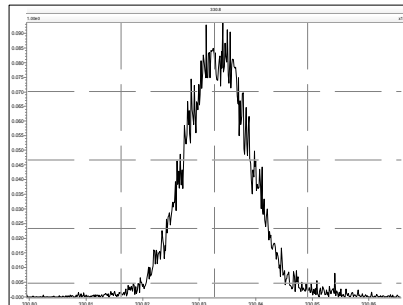
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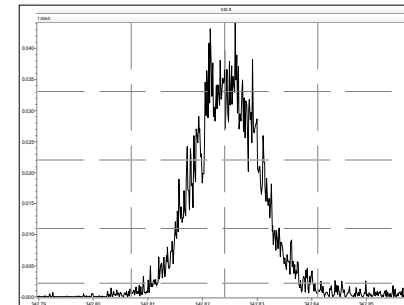
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M 342.9792 R 12695





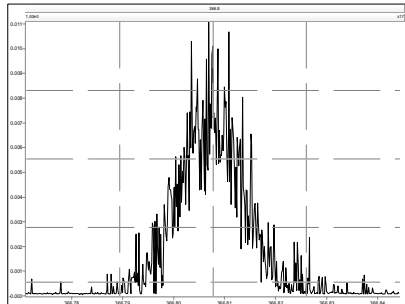
## Resolution Check Report

MassLynx 4.1 SCN 881

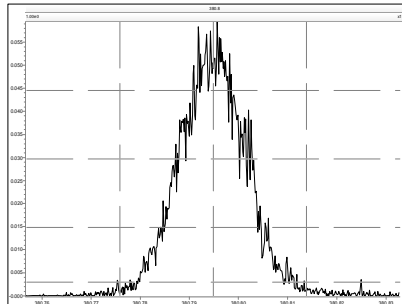
Page 4 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

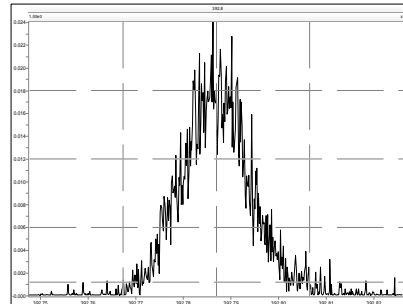
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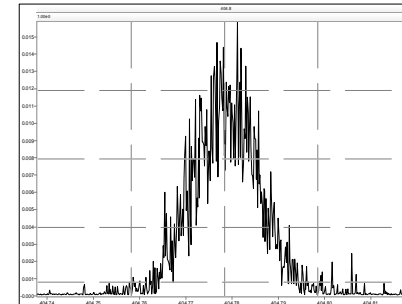
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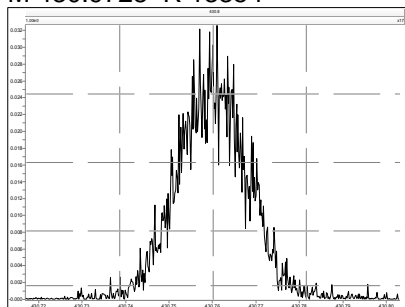
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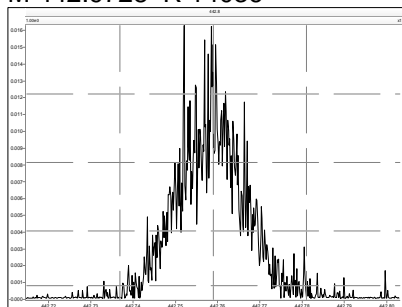
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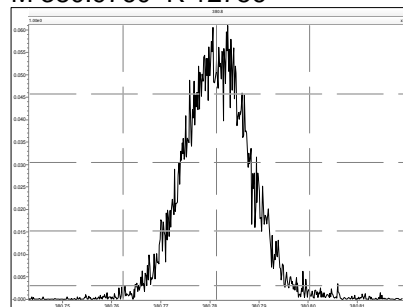
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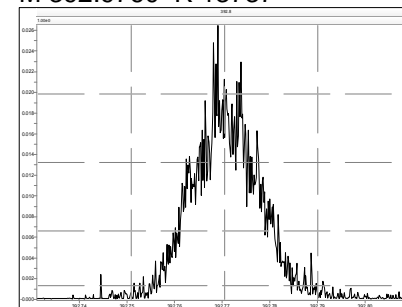
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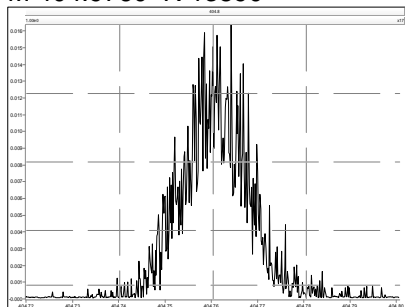
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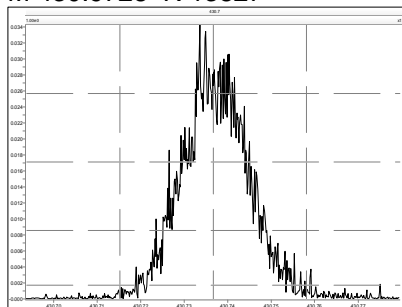
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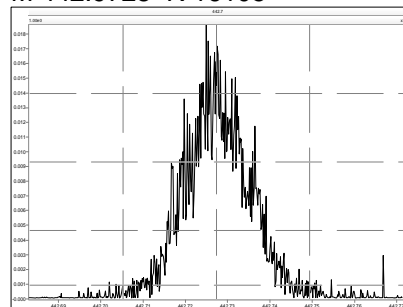
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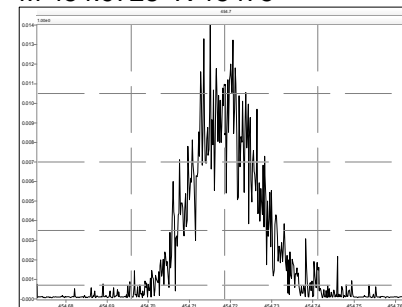
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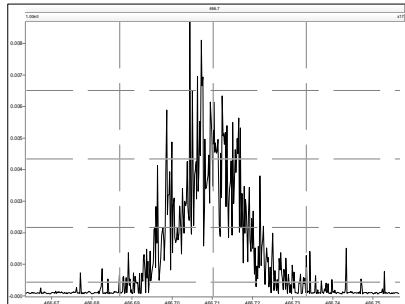
## Resolution Check Report

MassLynx 4.1 SCN 881

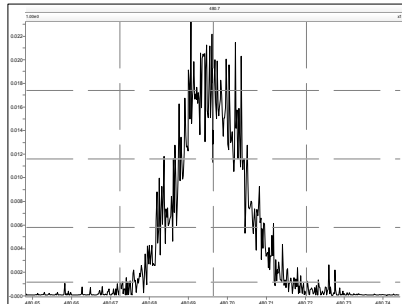
Page 5 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

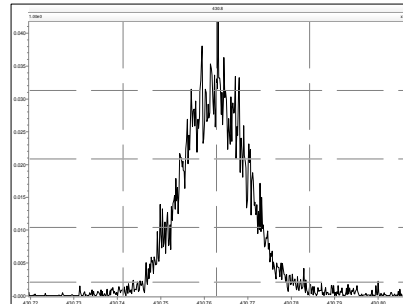
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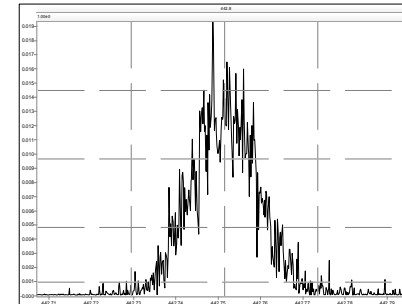
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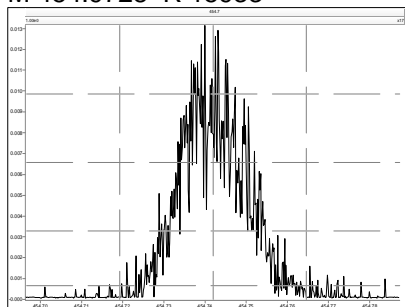
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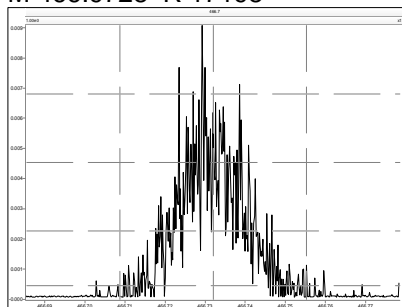
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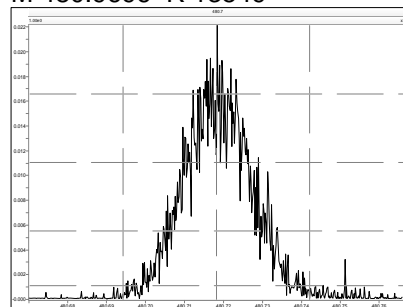
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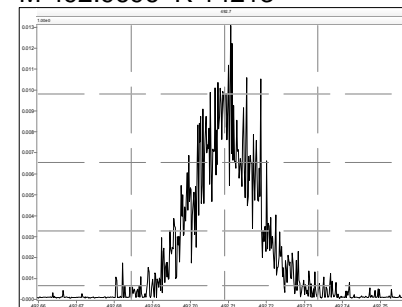
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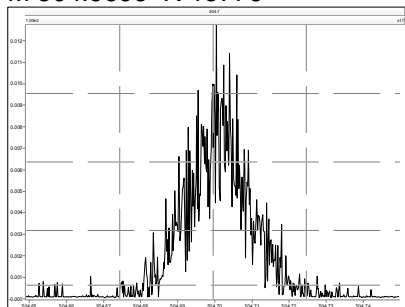
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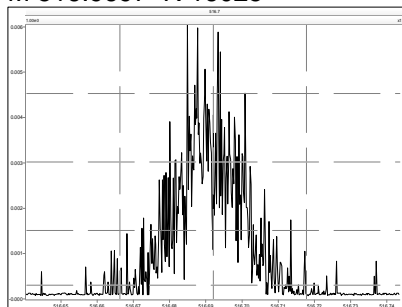
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M 504.9696 R 15776



M 516.9697 R 16025



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
Date Processed: 3 Jan 2014 16:52			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
PCB-77 33'44'-TeCB	1.15	4.1%	1.17	1.11	1.09	1.14	1.17	1.22	
PCB-81 344'5'-TeCB	1.12	3.1%	1.08	1.13	1.08	1.12	1.14	1.17	
PCB-105 233'44'-PeCB	1.11	5.1%	1.13	1.02	1.07	1.13	1.15	1.18	
PCB-114 2344'5'-PeCB	1.20	4.8%	1.14	1.16	1.15	1.23	1.24	1.29	
PCB-118 23'44'5'-PeCB	1.19	4.2%	1.20	1.13	1.13	1.22	1.22	1.25	
PCB-123 23'44'5'-PeCB	1.21	2.4%	1.20	1.20	1.16	1.23	1.23	1.25	
PCB-126 33'44'5'-PeCB	1.11	5.8%	1.05	1.07	1.05	1.12	1.14	1.21	
PCB-156/157 ...-HxCB	1.10	4.0%	1.07	1.07	1.05	1.12	1.11	1.17	
PCB-167 23'44'55'-HxCB	1.16	4.0%	1.11	1.13	1.12	1.20	1.18	1.23	
PCB-169 33'44'55'-HxCB	1.12	3.5%	1.12	1.07	1.09	1.16	1.14	1.17	
PCB-189 233'44'55'-HpCB	1.07	5.0%	1.08	1.00	1.03	1.07	1.10	1.16	
PCB-209 DeCB	1.11	3.9%	1.18	1.10	1.06	1.09	1.10	1.15	
ES PCB-1	1.19	3.7%	1.25	1.22	1.21	1.18	1.17	1.13	
ES PCB-3	1.09	2.3%	1.12	1.09	1.10	1.06	1.08	1.06	
ES PCB-4	0.52	0.7%	0.52	0.52	0.53	0.52	0.52	0.53	
ES PCB-15	1.04	1.1%	1.04	1.04	1.05	1.02	1.05	1.05	
ES PCB-19	0.51	1.4%	0.50	0.50	0.51	0.50	0.51	0.52	
ES PCB-37	1.66	1.8%	1.69	1.64	1.68	1.61	1.66	1.69	
ES PCB-54	0.86	1.0%	0.86	0.86	0.88	0.85	0.86	0.85	
ES PCB-77	1.38	1.8%	1.38	1.37	1.42	1.34	1.38	1.40	
ES PCB-81	1.37	2.5%	1.37	1.35	1.36	1.32	1.38	1.42	
ES PCB-104	0.80	1.7%	0.82	0.80	0.82	0.80	0.79	0.78	
ES PCB-105	1.20	2.5%	1.22	1.21	1.25	1.18	1.18	1.17	
ES PCB-114	1.22	2.3%	1.24	1.22	1.26	1.19	1.21	1.19	
ES PCB-118	1.16	2.4%	1.19	1.17	1.19	1.13	1.14	1.14	
ES PCB-123	1.19	1.2%	1.19	1.20	1.20	1.16	1.19	1.18	
ES PCB-126	1.03	3.2%	1.07	1.02	1.07	0.99	1.01	1.01	
ES PCB-153	1.11	1.4%	1.14	1.11	1.13	1.10	1.11	1.10	
ES PCB-155	1.59	3.0%	1.66	1.60	1.63	1.56	1.56	1.52	
ES PCB-156/157	1.60	2.0%	1.60	1.57	1.63	1.56	1.64	1.61	
ES PCB-167	1.67	2.0%	1.68	1.65	1.71	1.62	1.70	1.65	
ES PCB-169	1.56	2.3%	1.54	1.53	1.58	1.51	1.60	1.58	
ES PCB-170	0.95	1.9%	0.92	0.93	0.96	0.95	0.95	0.97	
ES PCB-180	1.14	3.6%	1.11	1.10	1.13	1.11	1.16	1.21	
ES PCB-188	0.94	1.9%	0.97	0.93	0.96	0.92	0.93	0.93	
ES PCB-189	1.58	1.1%	1.61	1.57	1.60	1.57	1.57	1.58	
ES PCB-202	0.97	1.2%	0.96	0.96	0.99	0.97	0.97	0.97	
ES PCB-205	1.24	0.9%	1.24	1.23	1.26	1.24	1.25	1.25	
ES PCB-206	0.83	1.4%	0.83	0.82	0.85	0.83	0.83	0.82	

PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
ES PCB-208	1.17	1.4%	1.16	1.16	1.20	1.17	1.18	1.19	
ES PCB-209	1.11	1.9%	1.12	1.10	1.14	1.11	1.11	1.08	
SS PCB-28	1.11	1.2%	1.12	1.12	1.11	1.12	1.11	1.09	
SS PCB-111	1.03	1.6%	1.04	1.02	1.03	1.05	1.00	1.03	
SS PCB-178	0.62	2.7%	0.64	0.61	0.61	0.61	0.61	0.64	
CS PCB-28	1.85	1.4%	1.89	1.84	1.86	1.81	1.84	1.83	
CS PCB-111	1.22	1.4%	1.24	1.22	1.23	1.22	1.19	1.21	
CS PCB-178	0.58	3.7%	0.62	0.57	0.58	0.56	0.57	0.60	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46	
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53	
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29	
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24	
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31	
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31	
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10	
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13	
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19	
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18	

PCB ICAL Summary - Ax2 Detail			SGS Analytical Perspectives					Printed: 3 Jan 2014 16:53	
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013									
Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-2 3-MoCB	1.03	3.8%	1.02	1.01	0.98	1.08	1.08	1.02	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-10 26-DiCB	1.98	3.9%	1.91	1.90	1.93	2.05	2.04	2.06	
PCB-9 25-DiCB	0.95	2.8%	0.93	0.95	0.90	0.96	0.96	0.97	
PCB-7 24-DiCB	1.05	5.7%	0.95	1.03	1.02	1.09	1.08	1.11	
PCB-6 23'-DiCB	1.00	4.5%	0.97	0.94	0.96	1.03	1.03	1.05	
PCB-5 23-DiCB	1.00	4.8%	1.03	0.92	0.96	1.02	1.02	1.05	
PCB-8 24'-DiCB	1.03	3.2%	1.07	0.99	1.00	1.04	1.03	1.07	
PCB-14 35-DiCB	1.18	3.9%	1.14	1.14	1.15	1.20	1.21	1.25	
PCB-11 33'-DiCB	1.01	4.5%	0.98	0.95	0.99	1.03	1.04	1.07	
PCB-13/12 34'/34-DiCB	0.99	6.8%	0.88	0.96	0.97	1.02	1.03	1.07	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-30/18 246/22'5-TrCB	1.54	3.5%	1.49	1.47	1.51	1.57	1.59	1.60	
PCB-17 22'4-TrCB	1.31	4.4%	1.23	1.28	1.27	1.33	1.34	1.38	
PCB-27 23'6-TrCB	1.82	3.6%	1.77	1.76	1.77	1.83	1.87	1.92	
PCB-24 236-TrCB	1.72	3.4%	1.67	1.69	1.67	1.74	1.73	1.83	
PCB-16 22'3-TrCB	1.01	4.3%	0.99	0.94	1.00	1.00	1.05	1.06	
PCB-32 24'6-TrCB	1.92	2.4%	1.90	1.91	1.85	1.93	1.93	1.99	
PCB-34 23'5'-TrCB	1.14	3.0%	1.11	1.09	1.11	1.15	1.18	1.16	
PCB-23 235-TrCB	1.16	4.1%	1.20	1.09	1.10	1.18	1.19	1.17	
PCB-26/29 23'5/245-TrCB	1.17	3.0%	1.15	1.14	1.13	1.20	1.21	1.21	
PCB-25 23'4-TrCB	1.16	2.6%	1.13	1.14	1.13	1.18	1.18	1.18	
PCB-31 24'5-TrCB	1.23	3.3%	1.25	1.16	1.19	1.26	1.24	1.25	
PCB-28/20 244'/233'-TrCB	1.13	3.6%	1.13	1.08	1.08	1.17	1.17	1.17	
PCB-21/33 234/23'4'-TrCB	1.17	3.3%	1.15	1.14	1.13	1.21	1.21	1.21	
PCB-22 234'-TrCB	1.08	2.8%	1.08	1.05	1.04	1.09	1.10	1.12	
PCB-36 33'5-TrCB	1.17	4.4%	1.13	1.12	1.13	1.19	1.21	1.24	
PCB-39 34'5-TrCB	1.21	4.1%	1.18	1.16	1.16	1.24	1.25	1.27	
PCB-38 345-TrCB	1.10	3.7%	1.07	1.08	1.06	1.14	1.16	1.11	
PCB-35 33'4-TrCB	1.04	4.6%	1.01	0.98	1.00	1.08	1.07	1.10	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-50/53 22'46/22'56'-TeCB	0.88	2.7%	0.89	0.85	0.84	0.90	0.89	0.89	
PCB-45 22'36'-TeCB	0.77	5.4%	0.78	0.76	0.70	0.74	0.78	0.83	
PCB-51 22'46'-TeCB	0.86	5.9%	0.80	0.82	0.89	0.93	0.88	0.84	
PCB-46 22'36'-TeCB	0.70	2.5%	0.70	0.68	0.68	0.72	0.71	0.71	
PCB-52 22'55'-TeCB	0.84	1.7%	0.85	0.83	0.82	0.86	0.85	0.85	

PCB-73 23'56'-TeCB	1.11	4.0%	1.13	1.06	1.06	1.12	1.12	1.17
PCB-43 22'35'-TeCB	0.71	4.5%	0.68	0.68	0.72	0.77	0.72	0.70
PCB-69/49 23'46'/22'45'-TeCB	1.02	3.4%	0.99	0.98	0.99	1.05	1.05	1.06
PCB-48 22'45'-TeCB	0.84	3.5%	0.83	0.79	0.83	0.87	0.85	0.87
PCB-44/47/65 ...-TeCB	0.90	3.3%	0.89	0.88	0.86	0.93	0.93	0.93
PCB-59/62/75 ...-TeCB	1.17	3.7%	1.13	1.13	1.13	1.21	1.22	1.18
PCB-42 22'34'-TeCB	0.76	2.8%	0.76	0.73	0.75	0.79	0.77	0.78
PCB-41 22'34'-TeCB	0.69	4.3%	0.68	0.66	0.69	0.73	0.68	0.73
PCB-71/40 23'4'6'/22'33'-TeCB	0.86	3.9%	0.84	0.82	0.83	0.87	0.90	0.89
PCB-64 234'6'-TeCB	1.22	3.9%	1.17	1.18	1.18	1.27	1.25	1.28
PCB-72 23'55'-TeCB	1.21	2.1%	1.19	1.18	1.19	1.25	1.22	1.23
PCB-68 23'45'-TeCB	1.28	2.7%	1.26	1.24	1.24	1.31	1.31	1.30
PCB-57 233'5'-TeCB	1.16	2.6%	1.18	1.11	1.16	1.20	1.16	1.17
PCB-58 233'5'-TeCB	1.18	2.9%	1.17	1.13	1.15	1.20	1.19	1.23
PCB-67 23'45'-TeCB	1.26	1.9%	1.23	1.25	1.23	1.29	1.27	1.28
PCB-63 234'5'-TeCB	1.30	3.1%	1.30	1.26	1.24	1.33	1.32	1.34
PCB-61/70/74/76 ...-TeCB	1.20	2.4%	1.20	1.16	1.16	1.23	1.22	1.21
PCB-66 23'44'-TeCB	1.10	3.3%	1.06	1.06	1.09	1.14	1.14	1.13
PCB-55 233'4'-TeCB	1.12	2.3%	1.09	1.10	1.12	1.14	1.12	1.15
PCB-56 233'4'-TeCB	1.11	2.9%	1.13	1.05	1.10	1.13	1.12	1.13
PCB-60 2344'-TeCB	1.14	1.8%	1.13	1.12	1.11	1.15	1.14	1.16
PCB-80 33'55'-TeCB	1.31	2.3%	1.30	1.29	1.28	1.35	1.32	1.34
PCB-79 33'45'-TeCB	1.31	2.5%	1.26	1.33	1.28	1.31	1.35	1.32
PCB-78 33'45'-TeCB	1.06	4.2%	1.04	0.99	1.04	1.10	1.08	1.11
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46
PCB-96 22'366'-PeCB	1.23	4.7%	1.12	1.24	1.20	1.26	1.28	1.27
PCB-103 22'45'6'-PeCB	0.93	2.7%	0.91	0.91	0.91	0.96	0.95	0.95
PCB-94 22'356'-PeCB	0.80	3.3%	0.79	0.76	0.79	0.83	0.81	0.82
PCB-95 22'35'6'-PeCB	0.87	3.9%	0.89	0.80	0.85	0.89	0.87	0.89
PCB-100/93 22'44'6'/22'356'-PeCB	0.86	3.5%	0.84	0.83	0.85	0.88	0.90	0.89
PCB-102 22'456'-PeCB	0.97	6.3%	0.97	0.93	0.99	1.03	0.87	1.02
PCB-98 22'34'6'-PeCB	0.76	8.5%	0.73	0.68	0.71	0.80	0.86	0.77
PCB-88 22'346'-PeCB	0.80	11.9%	0.96	0.72	0.73	0.74	0.85	0.78
PCB-91 22'34'6'-PeCB	0.94	10.7%	0.76	0.95	0.94	1.04	0.95	1.03
PCB-84 22'33'6'-PeCB	0.72	4.5%	0.71	0.66	0.70	0.75	0.73	0.74
PCB-89 22'346'-PeCB	0.76	3.8%	0.73	0.74	0.75	0.80	0.78	0.79
PCB-121 23'45'6'-PeCB	1.20	3.2%	1.18	1.15	1.16	1.23	1.23	1.24
PCB-92 22'355'-PeCB	0.82	2.3%	0.82	0.81	0.79	0.84	0.83	0.84
PCB-113/90/101 ...-PeCB	0.99	2.4%	0.98	0.96	0.96	1.00	1.01	1.01
PCB-83 22'33'5'-PeCB	0.71	4.0%	0.77	0.70	0.71	0.72	0.70	0.69
PCB-99 22'44'5'-PeCB	0.92	6.0%	0.88	0.88	0.88	0.91	0.98	1.00
PCB-112 233'56'-PeCB	1.17	3.9%	1.12	1.12	1.16	1.24	1.17	1.18
PCB-108/119/86/97/125...-PeCB	0.98	3.2%	0.98	0.94	0.95	1.01	1.02	0.97
PCB-117 234'56'-PeCB	1.14	6.9%	1.02	1.15	1.15	1.17	1.09	1.25
PCB-116/85 23456/22'344'-PeCB	0.94	6.2%	1.02	0.87	0.88	0.94	0.99	0.95
PCB-110 233'4'6'-PeCB	1.12	6.3%	1.09	1.07	1.06	1.25	1.11	1.13
PCB-115 2344'6'-PeCB	1.16	4.4%	1.18	1.11	1.16	1.10	1.16	1.24

PCB-82 22'33'4-PeCB	0.70	3.4%	0.69	0.67	0.67	0.70	0.72	0.73
PCB-111 233'55'-PeCB	1.22	2.9%	1.23	1.17	1.19	1.25	1.23	1.26
PCB-120 23'455'-PeCB	1.21	4.3%	1.18	1.14	1.18	1.24	1.25	1.28
PCB-107/124 ...-PeCB	1.10	4.7%	1.07	1.03	1.07	1.14	1.12	1.17
PCB-109 233'46-PeCB	1.25	8.6%	1.26	1.05	1.26	1.33	1.26	1.36
PCB-106 233'45-PeCB	1.11	3.3%	1.12	1.08	1.04	1.12	1.13	1.14
PCB-122 233'4'5'-PeCB	0.99	4.1%	0.97	0.96	0.95	1.01	1.02	1.06
PCB-127 33'455'-PeCB	1.10	5.5%	1.09	1.04	1.03	1.11	1.12	1.19
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29
PCB-152 22'3566'-HxCB	1.17	4.1%	1.16	1.12	1.13	1.16	1.23	1.23
PCB-150 22'34'66'-HxCB	1.18	3.7%	1.18	1.10	1.15	1.20	1.21	1.22
PCB-136 22'33'66'-HxCB	1.07	6.5%	1.01	0.98	1.04	1.09	1.12	1.16
PCB-145 22'3466'-HxCB	1.11	3.0%	1.13	1.09	1.06	1.12	1.14	1.16
PCB-148 22'34'56'-HxCB	1.18	4.0%	1.14	1.14	1.16	1.19	1.23	1.25
PCB-151/135 ...-HxCB	1.14	2.4%	1.11	1.13	1.12	1.14	1.16	1.18
PCB-154 22'44'56'-HxCB	1.34	3.1%	1.38	1.29	1.30	1.33	1.37	1.38
PCB-144 22'345'6-HxCB	1.18	3.1%	1.22	1.12	1.17	1.19	1.20	1.20
PCB-147/149 ...-HxCB	1.18	3.5%	1.12	1.15	1.16	1.18	1.21	1.23
PCB-134 22'33'56'-HxCB	0.92	4.3%	0.97	0.90	0.88	0.89	0.96	0.94
PCB-143 22'3456'-HxCB	1.13	3.3%	1.07	1.10	1.14	1.18	1.12	1.16
PCB-139/140 ...-HxCB	1.21	3.3%	1.20	1.16	1.17	1.20	1.24	1.27
PCB-131 22'33'46-HxCB	1.03	2.7%	1.02	1.02	0.98	1.03	1.04	1.06
PCB-142 22'3456-HxCB	0.99	4.9%	0.96	0.92	0.97	1.01	1.03	1.06
PCB-132 22'33'46'-HxCB	1.03	2.0%	1.03	1.01	1.01	1.03	1.03	1.06
PCB-133 22'33'55'-HxCB	1.13	2.8%	1.13	1.11	1.09	1.13	1.16	1.17
PCB-165 233'55'6-HxCB	1.41	1.5%	1.41	1.39	1.40	1.42	1.39	1.44
PCB-146 22'34'55'-HxCB	1.20	3.4%	1.19	1.16	1.17	1.19	1.24	1.26
PCB-161 233'45'6-HxCB	1.52	3.6%	1.50	1.44	1.50	1.54	1.55	1.60
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53
PCB-141 22'3455'-HxCB	1.09	2.5%	1.10	1.05	1.07	1.10	1.10	1.12
PCB-130 22'33'45'-HxCB	0.97	1.8%	0.97	0.95	0.96	0.97	0.98	1.00
PCB-137 22'344'5-HxCB	1.16	5.1%	1.19	1.14	1.10	1.10	1.22	1.24
PCB-164 233'4'5'6-HxCB	1.50	5.4%	1.35	1.48	1.52	1.58	1.51	1.55
PCB-163/138/129 ...-HxCB	1.19	4.0%	1.18	1.15	1.14	1.17	1.23	1.27
PCB-160 233'456-HxCB	1.52	2.3%	1.49	1.48	1.49	1.55	1.56	1.52
PCB-158 233'44'6-HxCB	1.66	2.4%	1.69	1.64	1.62	1.63	1.67	1.72
PCB-128/166 ...-HxCB	0.90	5.7%	0.86	0.86	0.85	0.91	0.93	0.98
PCB-159 233'455'-HxCB	1.11	3.3%	1.09	1.11	1.07	1.13	1.12	1.17
PCB-162 233'4'55'-HxCB	1.07	5.3%	1.03	1.01	1.03	1.11	1.10	1.15
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31
PCB-179 22'33'566'-HpCB	1.16	1.6%	1.19	1.16	1.13	1.17	1.16	1.15
PCB-184 22'344'66'-HpCB	1.13	2.7%	1.14	1.09	1.10	1.13	1.13	1.17
PCB-176 22'33'466'-HpCB	1.23	1.7%	1.21	1.22	1.22	1.25	1.24	1.26
PCB-186 22'34566'-HpCB	1.13	1.5%	1.14	1.11	1.10	1.14	1.12	1.14
PCB-178 22'33'55'6-HpCB	0.84	3.8%	0.88	0.80	0.82	0.84	0.84	0.88
PCB-175 22'33'45'6-HpCB	1.07	4.2%	1.02	1.05	1.05	1.08	1.10	1.15
PCB-187 22'34'55'6-HpCB	1.14	4.0%	1.08	1.12	1.11	1.15	1.17	1.21

PCB-182 22'344'56'-HpCB	1.18	4.7%	1.09	1.14	1.16	1.22	1.21	1.23
PCB-183 22'344'5'6'-HpCB	1.20	3.5%	1.16	1.18	1.21	1.28	1.18	1.22
PCB-185 22'3455'6'-HpCB	1.06	9.3%	0.95	1.03	0.99	1.03	1.15	1.21
PCB-174 22'33'456'-HpCB	0.99	4.3%	0.93	1.04	0.96	1.00	0.98	1.03
PCB-177 22'33'45'6'-HpCB	0.95	2.6%	0.93	0.94	0.93	0.95	0.96	0.99
PCB-181 22'344'56'-HpCB	1.09	4.9%	1.03	1.07	1.04	1.11	1.12	1.17
PCB-171/173 ...-HpCB	0.95	5.3%	0.90	0.90	0.92	0.97	0.98	1.03
PCB-172 22'33'455'-HpCB	0.99	3.7%	0.96	0.97	0.95	1.02	1.00	1.04
PCB-192 233'455'6'-HpCB	1.29	5.1%	1.17	1.27	1.28	1.32	1.32	1.36
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31
PCB-191 233'44'5'6'-HpCB	1.40	2.6%	1.41	1.40	1.33	1.40	1.40	1.44
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24
PCB-190 233'44'56'-HpCB	1.66	5.4%	1.63	1.58	1.58	1.66	1.69	1.82
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10
PCB-201 22'33'45'66'-OcCB	1.22	3.2%	1.16	1.22	1.19	1.24	1.27	1.24
PCB-204 22'344'566'-OcCB	1.12	2.5%	1.10	1.13	1.08	1.12	1.12	1.16
PCB-197 22'33'44'66'-OcCB	1.19	5.1%	1.26	1.16	1.11	1.15	1.21	1.26
PCB-200 22'33'4566'-OcCB	1.11	5.6%	1.03	1.04	1.12	1.16	1.12	1.17
PCB-198/199 ...-OcCB	0.81	3.2%	0.80	0.79	0.78	0.80	0.82	0.86
PCB-196 22'33'44'56'-OcCB	0.83	2.8%	0.84	0.80	0.82	0.84	0.84	0.87
PCB-203 22'344'55'6'-OcCB	0.87	2.5%	0.87	0.85	0.85	0.88	0.88	0.91
PCB-195 22'33'44'56'-OcCB	0.77	4.3%	0.79	0.74	0.73	0.75	0.77	0.82
PCB-194 22'33'44'55'-OcCB	0.84	3.5%	0.88	0.82	0.81	0.84	0.85	0.88
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19
PCB-207 22'33'44'566'-NoCB	1.19	3.1%	1.20	1.16	1.14	1.20	1.20	1.24
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18



Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 0DEC2013	RSD	Mean	sd	PD from Mean
77	10.6	1.04	0.11	1.11	1.13	1.34	1.15	8.8	1.18	0.10	-4.3%
81	9.6	1.08	0.10	1.13	1.13	1.13	1.12	0.4	1.13	0.00	0.1%
105	4.6	0.96	0.04	1.11	1.09	1.15	1.11	2.1	1.11	0.02	-1.9%
114	4.9	0.96	0.05	1.18	1.16	1.22	1.2	2.1	1.19	0.02	-2.4%
118	6.8	0.95	0.06	1.11	1.11	1.17	1.19	3.7	1.15	0.04	-3.4%
123	3.9	0.97	0.04	1.08	1.19	1.27	1.21	6.5	1.19	0.08	0.2%
126	8.6	1.00	0.09	1.07	1.06	1.12	1.11	2.9	1.09	0.03	-2.6%
156/157	6.4	0.99	0.06	1.09	1.11	1.18	1.1	3.7	1.12	0.04	-1.2%
167	5.8	0.98	0.06	1.14	1.14	1.23	1.16	3.8	1.17	0.04	-2.8%
169	4.5	0.97	0.04	1.09	1.11	1.19	1.12	3.7	1.13	0.04	-1.5%
189	14.7	0.95	0.14	1.07	1.06	1.09	1.07	1.3	1.07	0.01	-1.4%
1	9.3	1.16	0.11	1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
3	9.5	1.16	0.11	0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
4	4.7	1.03	0.05	1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
15	11.8	1.02	0.12	0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
19	4.7	1.04	0.05	1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
37	12.1	1.06	0.13	1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
54	4.3	1.06	0.05	1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
104	5.4	1.01	0.05	1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
153				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
155	3.2	1.02	0.03	1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
170				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
180				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
188	4.2	1.02	0.04	1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
202	3.0	0.91	0.03	0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
205	5.4	0.96	0.05	1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
208	2.3	0.93	0.02	1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
206	3.2	0.97	0.03	0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.2%
209	7.0	0.95	0.07	1.07	1.07	1.13	1.11	2.6	1.10	0.03	-2.1%
<b>ES</b>											
1	6.7	1.01	0.07	1.08	1.08	1.20	1.19	6.0	1.14	0.07	-5.0%
3	5.5	1.02	0.06	1.14	1.08	1.14	1.09	2.7	1.11	0.03	-2.7%
4	10.0	0.69	0.07	0.50	0.49	0.57	0.52	6.8	0.52	0.04	-6.0%
15	4.2	1.06	0.04	1.18	1.11	1.07	1.04	5.5	1.10	0.06	0.8%
19	6.3	0.62	0.04	0.53	0.55	0.57	0.51	4.8	0.54	0.03	2.3%
37	10.4	1.36	0.14	1.64	1.64	1.55	1.66	2.9	1.62	0.05	0.8%
54	7.3	1.18	0.09	0.87	0.94	0.86	0.86	4.4	0.88	0.04	6.5%
77	11.1	1.23	0.14	1.26	1.35	1.11	1.38	9.6	1.27	0.12	5.7%
81	9.4	1.19	0.11	1.20	1.29	1.26	1.37	5.6	1.28	0.07	0.7%
104	8.0	1.33	0.11	1.08	0.99	0.89	0.8	13.2	0.94	0.12	5.6%
105	4.1	1.27	0.05	1.22	1.23	1.23	1.2	1.2	1.22	0.02	1.1%
114	4.2	1.31	0.05	1.24	1.25	1.24	1.22	1.0	1.24	0.01	0.7%
118	5.3	1.31	0.07	1.28	1.28	1.26	1.16	4.6	1.24	0.06	3.0%
123	3.9	1.24	0.05	1.35	1.22	1.21	1.19	5.9	1.24	0.07	-2.0%
126	6.7	1.30	0.09	1.22	1.20	1.09	1.03	7.9	1.14	0.09	5.6%
153				1.10	1.14	1.15	1.11	2.1	1.13	0.02	1.3%
155	7.0	1.42	0.10	1.41	1.50	1.56	1.59	5.1	1.51	0.08	-1.2%
156/157	7.7	1.22	0.09	1.41	1.45	1.59	1.6	6.4	1.51	0.10	-3.9%
167	7.6	1.25	0.09	1.43	1.49	1.68	1.67	8.1	1.57	0.13	-4.6%
169	8.1	1.23	0.10	1.37	1.40	1.42	1.56	5.8	1.44	0.08	-2.4%
170				1.04	1.00	0.93	0.95	5.1	0.98	0.05	2.1%
180				1.28	1.16	1.12	1.14	6.3	1.17	0.07	-1.3%
188	8.5	1.27	0.11	1.12	1.18	1.23	0.94	11.4	1.12	0.13	5.3%
189	7.8	1.52	0.12	1.53	1.49	1.46	1.58	3.5	1.51	0.05	-1.8%
202	6.6	1.18	0.08	1.07	1.14	1.10	0.97	6.7	1.07	0.07	6.4%
205	3.9	1.27	0.05	1.26	1.20	1.22	1.24	2.0	1.23	0.02	-2.2%
206	11.3	0.97	0.11	0.90	0.87	0.95	0.83	5.9	0.89	0.05	-2.1%
208	10.2	1.27	0.13	1.22	1.19	1.19	1.17	1.7	1.19	0.02	-0.2%

1668A/B ICALs				Historica Data									
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean		
209	8.3	1.20	0.10	1.06	1.00	1.12	1.11	5.1	1.07	0.06	-6.8%		
<b>SS</b>													
28	3.6	1.05	0.04	0.98	1.07	1.10	1.11	5.6	1.07	0.06	0.8%		
111	4.0	1.05	0.04	0.90	1.01	1.08	1.03	7.5	1.00	0.07	0.2%		
178	3.9	0.71	0.03	0.62	0.63	0.57	0.62	4.4	0.61	0.03	3.1%		

Additional Ax	RSD	Mean	sd					RSD	Mean	sd	PD from Historical Mean
PCB-1 2-MoCB				1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
PCB-2 3-MoCB				0.97	1.04	0.97	1.03	3.7	1.00	0.04	3.8%
PCB-3 4-MoCB				0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
PCB-4 22-DiCB				1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
PCB-10 26-DiCB				1.71	1.83	1.75	1.98	6.5	1.82	0.12	0.7%
PCB-9 25-DiCB				0.83	0.89	0.90	0.95	5.7	0.89	0.05	0.4%
PCB-7 24-DiCB				0.95	1.02	1.02	1.05	4.3	1.01	0.04	1.4%
PCB-6 23-DiCB				0.89	0.95	0.96	1.00	4.7	0.95	0.04	-0.2%
PCB-5 23-DiCB				0.89	0.97	0.97	1.00	4.7	0.96	0.05	1.4%
PCB-8 24-DiCB				0.93	0.98	1.00	1.03	4.3	0.99	0.04	-0.2%
PCB-14 35-DiCB				1.07	1.16	1.15	1.18	4.2	1.14	0.05	1.5%
PCB-11 33-DiCB				0.94	1.00	0.99	1.01	3.3	0.98	0.03	1.7%
PCB-13/12 34-/34-DiCB				0.95	1.02	0.99	0.99	2.8	0.99	0.03	3.2%
PCB-15 44-DiCB				0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
PCB-19 22'6-TrCB				1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
PCB-30/18 246-/22'5-TrCB				1.48	1.46	1.45	1.54	2.6	1.48	0.04	-1.6%
PCB-17 22'4-TrCB				1.28	1.25	1.26	1.31	2.0	1.28	0.03	-1.9%
PCB-27 23'6-TrCB				1.70	1.69	1.68	1.82	3.8	1.72	0.07	-1.8%
PCB-24 23'6-TrCB				1.63	1.63	1.60	1.72	3.1	1.65	0.05	-0.7%
PCB-16 22'3-TrCB				0.97	0.95	0.96	1.01	2.6	0.97	0.03	-2.1%
PCB-32 24'6-TrCB				1.81	1.79	1.84	1.92	3.1	1.84	0.06	-2.8%
PCB-34 2'35-TrCB				0.98	1.05	1.04	1.14	6.4	1.05	0.07	-0.3%
PCB-23 2'35-TrCB				0.98	1.06	1.07	1.16	6.9	1.07	0.07	-0.8%
PCB-26/29 2'35-/24'5-TrCB				1.00	1.09	1.07	1.17	6.3	1.08	0.07	0.3%
PCB-25 2'34-TrCB				0.99	1.07	1.09	1.16	6.5	1.08	0.07	-0.3%
PCB-31 24'5-TrCB				1.03	1.11	1.13	1.23	7.2	1.13	0.08	-1.3%
PCB-28/20 244-/233'-TrCB				0.98	1.07	1.06	1.13	5.6	1.06	0.06	0.7%
PCB-21/33 234-/2'34-TrCB				1.01	1.09	1.08	1.17	6.0	1.09	0.06	0.3%
PCB-22 2'34-TrCB				0.93	1.02	1.00	1.08	6.0	1.01	0.06	0.8%
PCB-36 3'35-TrCB				1.03	1.13	1.09	1.17	5.4	1.10	0.06	2.1%
PCB-39 34'5-TrCB				1.10	1.17	1.13	1.21	4.1	1.15	0.05	1.2%
PCB-38 34'5-TrCB				0.95	1.03	1.02	1.10	5.9	1.02	0.06	0.7%
PCB-35 3'34-TrCB				0.96	1.04	1.00	1.04	4.0	1.01	0.04	3.2%
PCB-37 344'-TrCB				1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
PCB-54 22'66'-TeCB				1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
PCB-50/53 22'46-/22'56'-TeCB				0.85	0.86	0.88	0.88	2.0	0.87	0.02	-1.1%
PCB-45 22'36'-TeCB				0.75	0.73	0.76	0.77	2.2	0.75	0.02	-2.8%
PCB-51 22'46'-TeCB				0.85	0.88	0.91	0.86	3.2	0.87	0.03	0.6%
PCB-46 22'36'-TeCB				0.68	0.70	0.71	0.70	1.6	0.70	0.01	-0.3%
PCB-52 22'55'-TeCB				0.82	0.84	0.86	0.84	2.0	0.84	0.02	0.3%
PCB-73 23'5'6TeCB				1.10	1.09	1.13	1.11	1.4	1.11	0.02	-1.5%
PCB-43 22'35'-TeCB				0.66	0.72	0.72	0.71	4.5	0.70	0.03	3.0%
PCB-69/49 23'46-/22'45'-TeCB				1.00	1.01	1.05	1.02	2.1	1.02	0.02	-0.8%
PCB-48 22'45'-TeCB				0.83	0.85	0.87	0.84	1.7	0.85	0.01	0.4%
PCB-44/47/65 22'35'-/22'44'-				0.88	0.89	0.91	0.90	1.5	0.90	0.01	-0.8%
PCB-59/62/75 23'3'6-/2346-/24				1.12	1.14	1.18	1.17	2.4	1.15	0.03	-1.2%
PCB-42 22'34'-TeCB				0.77	0.77	0.81	0.76	2.9	0.78	0.02	-0.8%
PCB-41 22'34'-TeCB				0.72	0.73	0.71	0.69	2.2	0.71	0.02	2.1%
PCB-71/40 23'4'6/22'33'-TeCB				0.85	0.87	0.88	0.86	1.5	0.86	0.01	0.2%
PCB-64 2346'-TeCB				1.21	1.24	1.26	1.22	1.7	1.23	0.02	0.5%

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	0DEC2013				
PCB-72 23'55'-TeCB				1.13	1.14	1.17	1.21	3.0	1.16	0.03	-1.8%
PCB-68 23'45'-TeCB				1.21	1.21	1.26	1.28	2.8	1.24	0.04	-2.5%
PCB-57 23'3'5'-TeCB				1.10	1.11	1.12	1.16	2.3	1.12	0.03	-1.4%
PCB-58 23'3'5'-TeCB				1.11	1.10	1.16	1.18	3.4	1.14	0.04	-3.4%
PCB-67 23'45'-TeCB				1.15	1.16	1.20	1.26	4.2	1.19	0.05	-2.8%
PCB-63 23'4'5'-TeCB				1.22	1.22	1.25	1.30	3.1	1.25	0.04	-2.6%
PCB-61/70/74/76 23'45'-/23'4'5'				1.13	1.13	1.17	1.20	2.8	1.16	0.03	-2.3%
PCB-66 23'44'-TeCB				1.06	1.08	1.10	1.10	1.7	1.09	0.02	-0.9%
PCB-55 23'3'4'-TeCB				1.09	1.10	1.11	1.12	1.3	1.10	0.01	-0.6%
PCB-56 23'3'4'-TeCB				1.05	1.06	1.07	1.11	2.4	1.07	0.03	-1.7%
PCB-60 23'44'-TeCB				1.12	1.11	1.15	1.14	1.5	1.13	0.02	-1.5%
PCB-80 33'55'-TeCB				1.26	1.25	1.27	1.31	2.1	1.27	0.03	-1.5%
PCB-79 33'45'-TeCB				1.26	1.23	1.28	1.31	2.6	1.27	0.03	-2.9%
PCB-78 33'45'-TeCB				1.09	1.08	1.05	1.06	1.6	1.07	0.02	0.9%
PCB-104 22'466'-PeCB				1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
PCB-96 22'366'-PeCB				0.98	1.08	1.12	1.23	9.5	1.10	0.10	-2.4%
PCB-103 22'45'6'-PeCB				0.80	0.90	0.95	0.93	7.2	0.90	0.06	0.6%
PCB-94 22'356'-PeCB				0.70	0.78	0.81	0.80	6.6	0.77	0.05	0.4%
PCB-95 22'35'6'-PeCB				0.75	0.83	0.88	0.87	7.5	0.83	0.06	-0.7%
PCB-100/93 22'44'6'-/22'356'-P				0.76	0.84	0.90	0.86	6.9	0.84	0.06	0.2%
PCB-102 22'456'-PeCB				0.82	0.90	0.98	0.97	8.1	0.92	0.07	-1.9%
PCB-98 22'3'46'-PeCB				0.69	0.77	0.80	0.76	5.9	0.76	0.04	2.4%
PCB-88 22'346'-PeCB				0.67	0.79	0.77	0.80	7.8	0.76	0.06	4.7%
PCB-91 22'34'6'-PeCB				0.84	0.88	1.00	0.94	7.5	0.91	0.07	-3.8%
PCB-84 22'33'6'-PeCB				0.65	0.71	0.72	0.72	5.2	0.70	0.04	1.4%
PCB-89 22'346'-PeCB				0.68	0.76	0.78	0.76	6.0	0.75	0.04	1.9%
PCB-121 23'45'6'-PeCB				1.02	1.14	1.20	1.20	7.4	1.14	0.08	0.2%
PCB-92 22'355'-PeCB				0.73	0.80	0.84	0.82	6.0	0.80	0.05	0.2%
PCB-113/90/101 23'3'5'6'-/22'3				0.85	0.93	0.99	0.99	7.0	0.94	0.07	-0.9%
PCB-83 22'33'5'-PeCB				0.63	0.71	0.72	0.71	5.7	0.69	0.04	2.8%
PCB-99 22'44'5'-PeCB				0.82	0.87	0.95	0.92	6.5	0.89	0.06	-2.1%
PCB-112 23'3'56'-PeCB				1.01	1.13	1.17	1.17	6.7	1.12	0.07	0.7%
PCB-108/119/86/97/125/87 233				0.87	0.95	1.01	0.98	6.4	0.95	0.06	-0.1%
PCB-117 23'4'56'-PeCB				0.96	1.04	1.05	1.14	7.2	1.05	0.08	-0.7%
PCB-116/85 23'456'-/22'344'-Pe				0.87	0.97	1.03	0.94	7.0	0.95	0.07	2.2%
PCB-110 23'3'4'6'-PeCB				0.95	1.02	1.11	1.12	7.7	1.05	0.08	-2.6%
PCB-115 23'44'6'-PeCB				1.02	1.16	1.21	1.16	6.9	1.14	0.08	1.8%
PCB-82 22'33'4'-PeCB				0.63	0.69	0.72	0.70	5.5	0.68	0.04	0.9%
PCB-111 23'3'55'-PeCB				1.05	1.15	1.22	1.22	7.0	1.16	0.08	-0.5%
PCB-120 23'455'-PeCB				1.05	1.16	1.22	1.21	6.5	1.16	0.08	-0.1%
PCB-107/124 23'3'4'5'-/2'3455'				0.99	1.07	1.11	1.10	5.3	1.07	0.06	0.6%
PCB-109 23'3'46'-PeCB				1.05	1.14	1.18	1.25	7.1	1.16	0.08	-1.2%
PCB-106 23'3'45'-PeCB				0.98	1.07	1.11	1.11	5.6	1.07	0.06	0.1%
PCB-122 2'33'45'-PeCB				1.01	1.00	1.01	0.99	1.0	1.00	0.01	-0.2%
PCB-127 33'455'-PeCB				1.12	1.10	1.08	1.10	1.5	1.10	0.02	-0.1%
PCB-155 22'44'66'-HxCB				1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
PCB-152 22'3566'-HxCB				1.00	1.01	1.14	1.17	8.0	1.08	0.09	-6.4%
PCB-150 22'34'66'-HxCB				1.03	1.00	1.15	1.18	7.9	1.09	0.09	-8.0%
PCB-136 22'33'66'-HxCB				0.95	0.95	1.07	1.07	6.8	1.01	0.07	-5.7%
PCB-145 22'3466'HxCB				0.98	0.96	1.09	1.11	7.4	1.03	0.08	-7.0%
PCB-148 22'34'56'-HxCB				0.96	0.97	1.12	1.18	10.5	1.06	0.11	-8.2%
PCB-151/135 22'355'6'-/22'33'				0.94	0.96	1.11	1.14	9.8	1.04	0.10	-7.2%
PCB-154 22'44'5'6'-HxCB				1.05	1.09	1.26	1.34	11.7	1.19	0.14	-8.1%
PCB-144 22'345'6'-HxCB				0.96	0.98	1.13	1.18	10.1	1.06	0.11	-7.7%
PCB-147/149 22'34'56'-/22'34'				0.96	0.99	1.14	1.18	10.3	1.07	0.11	-7.8%
PCB-134 22'33'56'-HxCB				0.78	0.80	0.90	0.92	8.1	0.85	0.07	-5.8%
PCB-143 22'3456'-HxCB				0.92	0.95	1.09	1.13	10.0	1.02	0.10	-6.8%
PCB-139/140 22'344'6'-/22'344'				0.99	1.00	1.14	1.21	10.1	1.09	0.11	-7.9%
PCB-131 22'33'46'-HxCB				0.84	0.85	0.98	1.03	10.4	0.93	0.10	-8.2%
PCB-142 22'3456'-HxCB				0.86	0.88	0.98	0.99	7.4	0.93	0.07	-5.7%
PCB-132 22'33'46'-HxCB				0.87	0.89	1.02	1.03	8.8	0.95	0.08	-6.7%
PCB-133 22'33'55'-HxCB				0.92	0.91	1.04	1.13	10.2	1.00	0.10	-8.7%

1668A/B ICALs		Historica Data									144 of 417
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean
PCB-165 233'55'6'-HxCB				1.12	1.13	1.32	1.41	11.4	1.24	0.14	-9.0%
PCB-146 22'34'55'-HxCB				0.99	1.01	1.16	1.20	10.0	1.09	0.11	-7.6%
PCB-161 233'45'6'-HxCB				1.24	1.25	1.41	1.52	9.8	1.36	0.13	-7.6%
PCB-153/168 22'44'55'-/23'44'				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
PCB-141 22'3455'-HxCB				0.92	0.93	1.06	1.09	8.9	1.00	0.09	-7.3%
PCB-130 22'33'45'-HxCB				0.82	0.85	0.95	0.97	8.2	0.90	0.07	-5.7%
PCB-137 22'344'5'-HxCB				1.00	1.04	1.08	1.16	6.3	1.07	0.07	-2.7%
PCB-164 233'4'5'6'-HxCB				1.21	1.22	1.45	1.50	11.2	1.35	0.15	-9.1%
PCB-163/138/129 233'4'56'-/22'				1.01	1.02	1.14	1.19	8.1	1.09	0.09	-6.2%
PCB-160 233'456'-HxCB				1.18	1.21	1.32	1.52	11.9	1.31	0.16	-7.6%
PCB-158 233'44'6'-HxCB				1.30	1.34	1.50	1.66	11.4	1.45	0.17	-7.7%
PCB-128/166 22'33'44'-/2344'5				0.91	0.90	0.95	0.90	2.7	0.92	0.02	-1.9%
PCB-159 233'455'-HxCB				1.07	1.06	1.14	1.11	3.0	1.10	0.03	-3.0%
PCB-162 233'4'55'-HxCB				1.09	1.08	1.14	1.07	2.7	1.09	0.03	-1.7%
PCB-188 22'34'566'-HpCB				1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
PCB-179 22'33'566'-HpCB				0.95	0.97	0.92	1.16	10.8	1.00	0.11	-3.1%
PCB-184 22'344'66'-HpCB				0.94	0.93	0.90	1.13	10.6	0.98	0.10	-4.6%
PCB-176 22'33'466'-HpCB				1.05	1.05	1.00	1.23	9.4	1.08	0.10	-3.2%
PCB-186 22'34566'-HpCB				0.98	0.98	0.94	1.13	8.3	1.01	0.08	-2.6%
PCB-178 22'33'55'6'-HpCB				0.73	0.74	0.69	0.84	8.6	0.75	0.06	-1.8%
PCB-175 22'33'45'6'-HpCB				0.95	1.01	1.09	1.07	6.1	1.03	0.06	-2.0%
PCB-187 22'34'55'6'-HpCB				0.99	1.06	1.17	1.14	7.4	1.09	0.08	-2.5%
PCB-182 22'344'56'-HpCB				1.02	1.11	1.19	1.18	6.9	1.12	0.08	-1.2%
PCB-183 22'344'5'6'-HpCB				1.06	1.13	1.17	1.20	5.4	1.14	0.06	-0.6%
PCB-185 22'3455'6'-HpCB				0.95	1.02	1.13	1.06	7.3	1.04	0.08	-2.0%
PCB-174 22'33'456'-HpCB				0.83	0.93	0.99	0.99	8.0	0.93	0.07	-0.7%
PCB-177 22'33'4'56'-HpCB				0.85	0.91	0.97	0.95	5.7	0.92	0.05	-1.3%
PCB-181 22'344'56'-HpCB				0.98	1.06	1.10	1.09	4.9	1.06	0.05	0.3%
PCB-171/173 22'33'44'6'-/22'3				0.85	0.93	0.96	0.95	5.4	0.92	0.05	0.6%
PCB-172 22'33'455'-HpCB				0.88	0.95	0.99	0.99	5.5	0.95	0.05	0.3%
PCB-192 233'455'6'-HpCB				1.12	1.24	1.26	1.29	6.0	1.23	0.07	1.0%
PCB-180/193 22'344'55'-/233'				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
PCB-191 233'44'5'6'-HpCB				1.20	1.30	1.32	1.40	6.4	1.31	0.08	-0.3%
PCB-170 22'33'44'5'-HpCB				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
PCB-190 233'44'56'-HpCB				1.42	1.45	1.54	1.66	7.2	1.52	0.11	-4.3%
PCB-202 22'33'55'66'-OcCB				0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
PCB-201 22'33'45'66'-OcCB				1.04	1.02	1.07	1.22	8.3	1.09	0.09	-6.2%
PCB-204 22'344'566'-OcCB				0.99	0.98	1.02	1.12	6.3	1.03	0.07	-4.9%
PCB-197 22'33'44'66'-OcCB				1.03	1.06	1.13	1.19	6.3	1.10	0.07	-3.6%
PCB-200 22'33'4566'-OcCB				1.02	0.96	1.02	1.11	6.0	1.03	0.06	-6.4%
PCB-198/199 22'33'455'6'-/22'				0.74	0.72	0.73	0.81	5.7	0.75	0.04	-4.2%
PCB-196 22'33'44'56'-OcCB				0.77	0.73	0.76	0.83	5.5	0.77	0.04	-5.3%
PCB-203 22'344'55'6'-OcCB				0.80	0.76	0.79	0.87	5.7	0.80	0.05	-5.1%
PCB-195 22'33'44'56'-OcCB				0.79	0.80	0.82	0.77	2.7	0.80	0.02	0.5%
PCB-194 22'33'44'55'-OcCB				0.87	0.87	0.89	0.84	2.3	0.87	0.02	0.7%
PCB-205 233'44'55'6'-OcCB				1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
PCB-208 22'33'455'66'-NoCB				1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
PCB-207 22'33'44'566'-NoCB				1.07	1.06	1.10	1.19	5.4	1.10	0.06	-4.3%
PCB-206 22'33'44'55'6'-NoCB				0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.0%

## SGS Analytical Perspectives — Run Log

Project: 131220 QC MM7

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	131220X02	Tray1:37	CS0_131220_PCB_XA	1.00	SIL 13-79-6	LKB	067-110	20-Dec-2013	14:56:33
3	131220X03	Tray1:38	CS1_131220_PCB_XA	1.00	SIL 13-79-5	LKB	983-753	20-Dec-2013	16:14:56
4	131220X04	Tray1:39	CS2_131220_PCB_XA	1.00	SIL 13-79-4	LKB	288-489	20-Dec-2013	17:09:38
5	131220X05	Tray1:40	CS3_131220_PCB_XA	1.00	SIL 13-79-3	LKB	297-225	20-Dec-2013	18:04:38
6	131220X06	Tray1:41	CS4_131220_PCB_XA	1.00	SIL 13-79-2	LKB	186-257	20-Dec-2013	18:59:38
7	131220X07	Tray1:02	SBS_131220_PCB_XB	1.00	SIL 9-42-1	LKB	307-094	20-Dec-2013	19:54:39
8	131220X08	Tray1:42	CS5_131220_PCB_XA	1.00	SIL 13-84-1	LKB	807-075	20-Dec-2013	20:49:35
9	131220X09	Tray1:02	SBS_131220_PCB_XC	1.00	SIL 9-42-1	LKB	023-880	20-Dec-2013	21:57:30
10	131220X10	Tray1:02	SBS_131220_PCB_XD	1.00	SIL 9-42-1	LKB	979-518	20-Dec-2013	22:52:16

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	6.82E+05	0.76 Y	1.15	1.17	1.8%	
PCB-81 344'5'-TeCB	32.64	6.25E+05	0.76 Y	1.12	1.08	-3.1%	
PCB-105 233'44'-PeCB	36.11	5.30E+05	0.63 Y	1.11	1.13	1.5%	
PCB-114 2344'5'-PeCB	35.57	5.44E+05	0.67 Y	1.20	1.14	-5.0%	
PCB-118 23'44'5'-PeCB	35.10	5.47E+05	0.67 Y	1.19	1.20	0.6%	
PCB-123 23'44'5'-PeCB	34.82	5.49E+05	0.63 Y	1.21	1.20	-0.6%	
PCB-126 33'44'5'-PeCB	38.73	4.31E+05	0.61 Y	1.11	1.05	-5.2%	
PCB-156/157 ...-HxCB	41.28	8.79E+05	1.18 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	4.81E+05	1.11 Y	1.16	1.11	-4.2%	
PCB-169 33'44'55'-HxCB	44.00	4.43E+05	1.39 Y	1.12	1.12	-0.5%	
PCB-189 233'44'55'-HpCB	46.13	4.42E+05	1.03 Y	1.07	1.08	0.2%	
PCB-209 DeCB	51.25	3.36E+05	1.21 Y	1.11	1.18	6.0%	
ES PCB-1	12.05	2.32E+08	3.31 Y	1.19	1.25	5.1%	
ES PCB-3	14.37	2.09E+08	3.36 Y	1.09	1.12	3.5%	
ES PCB-4	14.63	9.70E+07	1.64 Y	0.52	0.52	0.1%	
ES PCB-15	20.39	1.92E+08	1.56 Y	1.04	1.04	-0.4%	
ES PCB-19	17.75	9.22E+07	1.08 Y	0.51	0.50	-1.7%	
ES PCB-37	26.75	1.42E+08	1.09 Y	1.66	1.69	1.7%	
ES PCB-54	20.68	7.28E+07	0.79 Y	0.86	0.86	0.4%	
ES PCB-77	33.10	1.16E+08	0.80 Y	1.38	1.38	-0.1%	
ES PCB-81	32.62	1.15E+08	0.81 Y	1.37	1.37	0.2%	
ES PCB-104	25.69	6.25E+07	1.64 Y	0.80	0.82	1.5%	
ES PCB-105	36.09	9.38E+07	1.62 Y	1.20	1.22	1.8%	
ES PCB-114	35.55	9.51E+07	1.64 Y	1.22	1.24	1.8%	
ES PCB-118	35.08	9.14E+07	1.64 Y	1.16	1.19	2.9%	
ES PCB-123	34.80	9.13E+07	1.59 Y	1.19	1.19	0.4%	
ES PCB-126	38.71	8.22E+07	1.56 Y	1.03	1.07	4.3%	
ES PCB-153	36.67	5.84E+07	1.32 Y	1.11	1.14	2.1%	
ES PCB-155	30.66	8.51E+07	1.30 Y	1.59	1.66	4.3%	
ES PCB-156/157	41.26	1.64E+08	1.31 Y	1.60	1.60	0.0%	
ES PCB-167	40.28	8.65E+07	1.29 Y	1.67	1.68	0.9%	
ES PCB-169	43.98	7.92E+07	1.29 Y	1.56	1.54	-1.0%	
ES PCB-170	43.50	4.71E+07	1.09 Y	0.95	0.92	-2.5%	
ES PCB-180	42.43	5.69E+07	1.07 Y	1.14	1.11	-2.0%	
ES PCB-188	35.54	4.97E+07	1.11 Y	0.94	0.97	2.9%	
ES PCB-189	46.11	8.21E+07	1.04 Y	1.58	1.61	1.7%	
ES PCB-202	40.09	4.94E+07	0.92 Y	0.97	0.96	-0.9%	
ES PCB-205	48.28	6.33E+07	0.90 Y	1.24	1.24	-0.3%	
ES PCB-206	49.75	4.24E+07	0.81 Y	0.83	0.83	0.3%	
ES PCB-208	45.73	5.90E+07	0.81 Y	1.17	1.16	-1.6%	
ES PCB-209	51.23	5.69E+07	1.19 Y	1.11	1.12	0.5%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 14:56							
Datafile:	131220X02							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
SS PCB-28	23.18	1.59E+08	1.09 Y	1.11	1.12	0.5%		
SS PCB-111	33.12	9.52E+07	1.60 Y	1.03	1.04	1.3%		
SS PCB-178	38.11	3.17E+07	1.06 Y	0.62	0.64	3.0%		
CS PCB-28	23.18	1.59E+08	1.09 Y	1.85	1.89	2.2%		
CS PCB-111	33.12	9.52E+07	1.60 Y	1.22	1.24	1.7%		
CS PCB-178	38.11	3.17E+07	1.06 Y	0.58	0.62	6.0%		
JS PCB-9	16.63	1.86E+08	1.57 Y	-	-	-		
JS PCB-52	24.81	8.42E+07	0.81 Y	-	-	-		
JS PCB-101	30.82	7.67E+07	1.63 Y	-	-	-		
JS PCB-138	37.74	5.14E+07	1.34 Y	-	-	-		
JS PCB-194	47.88	5.10E+07	0.93 Y	-	-	-		
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	3.9%		
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%		
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%		
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%		
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%		
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%		
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%		
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%		
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%		
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%		
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%		
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%		
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%		
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%		

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	0.9%	
PCB-2 3-MoCB	14.20	1.07E+06	3.22 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-10 26'-DiCB	14.83	9.26E+05	0.00 S	1.98	1.91	-3.6%	
PCB-9 25'-DiCB	16.65	8.91E+05	0.00 S	0.95	0.93	-2.0%	
PCB-7 24'-DiCB	16.82	9.13E+05	0.00 S	1.05	0.95	-9.2%	
PCB-6 23'-DiCB	17.04	9.28E+05	0.00 S	1.00	0.97	-3.0%	
PCB-5 23'-DiCB	17.35	9.94E+05	0.00 S	1.00	1.03	3.2%	
PCB-8 24'-DiCB	17.47	1.02E+06	0.00 S	1.03	1.07	3.2%	
PCB-14 35'-DiCB	19.04	1.10E+06	0.00 S	1.18	1.14	-3.4%	
PCB-11 33'-DiCB	19.83	9.44E+05	0.00 S	1.01	0.98	-2.8%	
PCB-13/12 34'/34'-DiCB	20.12	1.69E+06	0.00 S	0.99	0.88	-11.2%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-30/18 246'/22'5'-TrCB	19.54	1.37E+06	1.04 Y	1.54	1.49	-3.2%	
PCB-17 22'4'-TrCB	19.95	5.65E+05	1.04 Y	1.31	1.23	-6.1%	
PCB-27 23'6'-TrCB	20.14	8.14E+05	1.08 Y	1.82	1.77	-2.9%	
PCB-24 236'-TrCB	20.27	7.72E+05	1.06 Y	1.72	1.67	-2.9%	
PCB-16 22'3'-TrCB	20.37	4.55E+05	1.10 Y	1.01	0.99	-2.0%	
PCB-32 24'6'-TrCB	20.86	8.78E+05	1.08 Y	1.92	1.90	-0.8%	
PCB-34 23'5'-TrCB	22.01	7.89E+05	1.08 Y	1.14	1.11	-2.3%	
PCB-23 235'-TrCB	22.16	8.53E+05	0.94 Y	1.16	1.20	3.8%	
PCB-26/29 23'5'/245'-TrCB	22.45	1.63E+06	1.01 Y	1.17	1.15	-2.1%	
PCB-25 23'4'-TrCB	22.65	8.01E+05	0.97 Y	1.16	1.13	-2.7%	
PCB-31 24'5'-TrCB	22.92	8.89E+05	1.01 Y	1.23	1.25	2.0%	
PCB-28/20 244'/233'-TrCB	23.21	1.61E+06	1.02 Y	1.13	1.13	-0.1%	
PCB-21/33 234'/23'4'-TrCB	23.39	1.63E+06	0.98 Y	1.17	1.15	-2.4%	
PCB-22 234'-TrCB	23.77	7.71E+05	1.00 Y	1.08	1.08	0.4%	
PCB-36 33'5'-TrCB	25.16	8.01E+05	1.00 Y	1.17	1.13	-3.7%	
PCB-39 34'5'-TrCB	25.48	8.42E+05	1.02 Y	1.21	1.18	-2.3%	
PCB-38 345'-TrCB	26.02	7.61E+05	0.93 Y	1.10	1.07	-3.2%	
PCB-35 33'4'-TrCB	26.41	7.19E+05	1.01 Y	1.04	1.01	-2.8%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	1.02E+06	0.81 Y	0.88	0.89	1.3%	
PCB-45 22'36'-TeCB	23.29	4.52E+05	0.79 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.37	4.59E+05	0.83 Y	0.86	0.80	-7.3%	
PCB-46 22'36'-TeCB	23.57	4.01E+05	0.83 Y	0.70	0.70	-0.4%	
PCB-52 22'55'-TeCB	24.83	4.90E+05	0.76 Y	0.84	0.85	0.7%	
PCB-73 23'5'6'-TeCB	24.96	6.54E+05	0.81 Y	1.11	1.13	2.0%	
PCB-43 22'35'-TeCB	25.06	3.93E+05	0.85 Y	0.71	0.68	-4.1%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	1.15E+06	0.76 Y	1.02	0.99	-2.8%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	4.76E+05	0.82 Y	0.84	0.83	-1.5%	
PCB-44/47/65 ...-TeCB	25.76	1.54E+06	0.78 Y	0.90	0.89	-1.8%	
PCB-59/62/75 ...-TeCB	26.03	1.95E+06	0.80 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.20	4.38E+05	0.81 Y	0.76	0.76	-0.5%	
PCB-41 22'34'-TeCB	26.54	3.93E+05	0.87 Y	0.69	0.68	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	9.69E+05	0.82 Y	0.86	0.84	-2.2%	
PCB-64 234'6'-TeCB	26.83	6.74E+05	0.82 Y	1.22	1.17	-4.3%	
PCB-72 23'55'-TeCB	27.55	6.87E+05	0.78 Y	1.21	1.19	-1.5%	
PCB-68 23'45'-TeCB	27.80	7.26E+05	0.84 Y	1.28	1.26	-1.4%	
PCB-57 233'5'-TeCB	28.18	6.81E+05	0.73 Y	1.16	1.18	1.5%	
PCB-58 233'5'-TeCB	28.38	6.76E+05	0.76 Y	1.18	1.17	-0.6%	
PCB-67 23'45'-TeCB	28.54	7.09E+05	0.78 Y	1.26	1.23	-2.3%	
PCB-63 234'5'-TeCB	28.77	7.50E+05	0.82 Y	1.30	1.30	0.2%	
PCB-61/70/74/76 ...-TeCB	29.06	2.77E+06	0.77 Y	1.20	1.20	0.2%	
PCB-66 23'44'-TeCB	29.34	6.11E+05	0.79 Y	1.10	1.06	-3.9%	
PCB-55 233'4'-TeCB	29.49	6.26E+05	0.78 Y	1.12	1.09	-3.1%	
PCB-56 233'4'-TeCB	29.93	6.53E+05	0.82 Y	1.11	1.13	2.0%	
PCB-60 2344'-TeCB	30.12	6.55E+05	0.79 Y	1.14	1.13	0.0%	
PCB-80 33'55'-TeCB	30.44	7.47E+05	0.82 Y	1.31	1.30	-1.4%	
PCB-79 33'45'-TeCB	31.77	7.25E+05	0.81 Y	1.31	1.26	-3.8%	
PCB-78 33'45'-TeCB	32.26	6.00E+05	0.82 Y	1.06	1.04	-2.0%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-96 22'366'-PeCB	26.03	3.51E+05	0.75 N	1.23	1.12	-8.6%	
PCB-103 22'45'6'-PeCB	27.72	4.14E+05	0.64 Y	0.93	0.91	-2.6%	
PCB-94 22'356'-PeCB	27.91	3.59E+05	0.70 Y	0.80	0.79	-1.5%	
PCB-95 22'35'6'-PeCB	28.29	4.07E+05	0.58 Y	0.87	0.89	3.0%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	7.64E+05	0.61 Y	0.86	0.84	-3.1%	
PCB-102 22'456'-PeCB	28.62	4.42E+05	0.64 Y	0.97	0.97	0.0%	
PCB-98 22'34'6'-PeCB	28.70	3.31E+05	0.63 Y	0.76	0.73	-4.3%	
PCB-88 22'346'-PeCB	29.00	4.40E+05	0.66 Y	0.80	0.96	20.8%	
PCB-91 22'34'6'-PeCB	29.06	3.45E+05	0.56 Y	0.94	0.76	-19.9%	
PCB-84 22'33'6'-PeCB	29.25	3.22E+05	0.60 Y	0.72	0.71	-1.3%	
PCB-89 22'346'-PeCB	29.67	3.31E+05	0.70 Y	0.76	0.73	-4.9%	
PCB-121 23'45'6'-PeCB	30.01	5.39E+05	0.64 Y	1.20	1.18	-1.7%	
PCB-92 22'355'-PeCB	30.33	3.73E+05	0.62 Y	0.82	0.82	-0.4%	
PCB-113/90/101 ...-PeCB	30.82	1.35E+06	0.62 Y	0.99	0.98	-0.3%	
PCB-83 22'33'5'-PeCB	31.26	3.50E+05	0.64 Y	0.71	0.77	7.3%	
PCB-99 22'44'5'-PeCB	31.36	4.00E+05	0.61 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.46	5.12E+05	0.65 Y	1.17	1.12	-4.0%	
PCB-108/119/86/97/125...-PeCB	31.80	2.69E+06	0.63 Y	0.98	0.98	0.2%	
PCB-117 234'56'-PeCB	32.33	4.64E+05	0.55 Y	1.14	1.02	-10.6%	
PCB-116/85 23456/22'344'-PeCB	32.43	9.28E+05	0.58 Y	0.94	1.02	8.1%	
PCB-110 233'4'6'-PeCB	32.54	4.96E+05	0.62 Y	1.12	1.09	-2.7%	

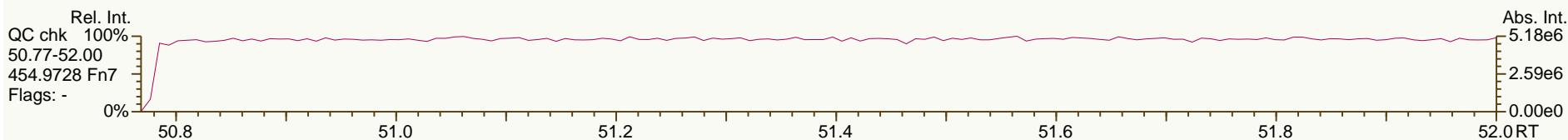
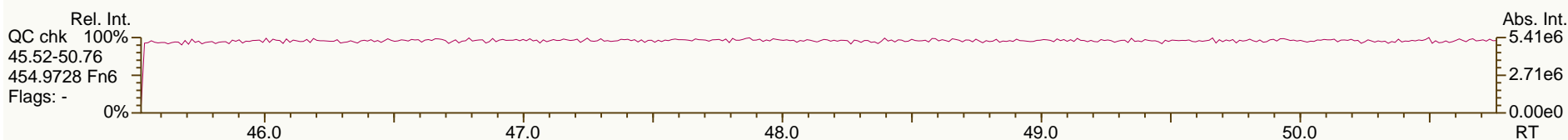
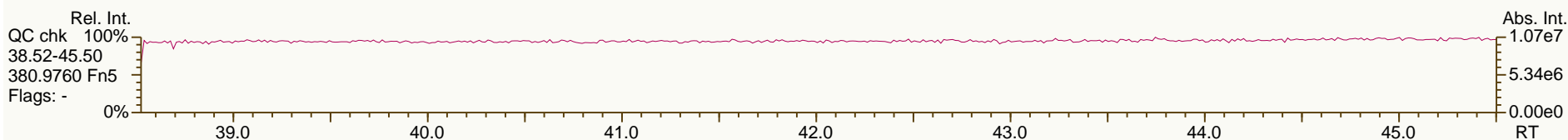
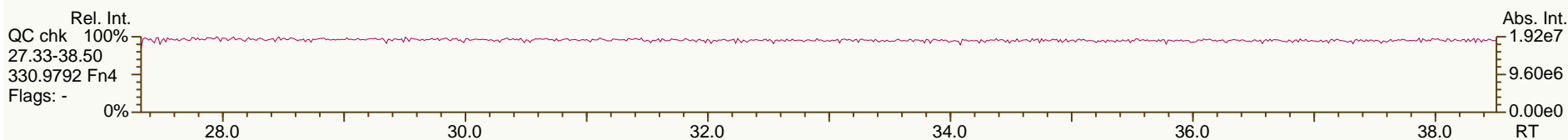
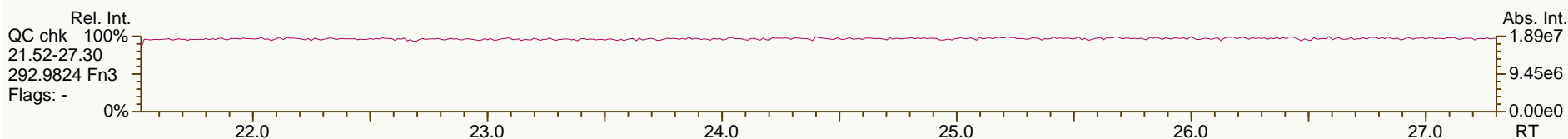
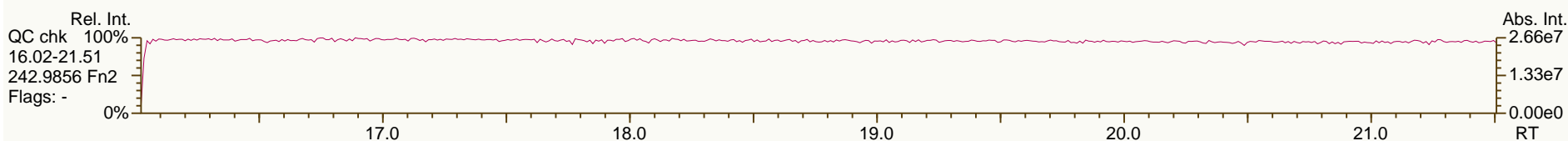
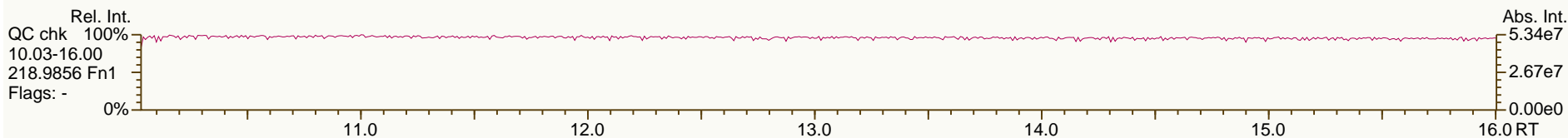
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	5.39E+05	0.59 Y	1.16	1.18	1.18	
PCB-82 22'33'4-PeCB	32.83	3.15E+05	0.59 Y	0.70	0.69	-1.1%	
PCB-111 233'55'-PeCB	33.14	5.61E+05	0.65 Y	1.22	1.23	0.6%	
PCB-120 23'455'-PeCB	33.54	5.37E+05	0.66 Y	1.21	1.18	-2.8%	
PCB-107/124 ...-PeCB	34.51	9.78E+05	0.64 Y	1.10	1.07	-2.4%	
PCB-109 233'46-PeCB	34.72	5.73E+05	0.63 Y	1.25	1.26	0.2%	
PCB-106 233'45-PeCB	34.94	5.10E+05	0.69 Y	1.11	1.12	1.0%	
PCB-122 233'4'5'-PeCB	35.40	4.64E+05	0.65 Y	0.99	0.97	-2.0%	
PCB-127 33'455'-PeCB	37.35	5.10E+05	0.62 Y	1.10	1.09	-0.8%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-152 22'3566'-HxCB	30.84	4.93E+05	1.27 Y	1.17	1.16	-1.3%	
PCB-150 22'34'66'-HxCB	30.98	5.01E+05	1.36 Y	1.18	1.18	0.1%	
PCB-136 22'33'66'-HxCB	31.29	4.28E+05	1.35 Y	1.07	1.01	-5.7%	
PCB-145 22'3466'-HxCB	31.56	4.79E+05	1.26 Y	1.11	1.13	0.9%	
PCB-148 22'34'56'-HxCB	32.83	3.33E+05	1.20 Y	1.18	1.14	-3.7%	
PCB-151/135 ...-HxCB	33.35	6.47E+05	1.21 Y	1.14	1.11	-2.9%	
PCB-154 22'44'56'-HxCB	33.56	4.03E+05	1.25 Y	1.34	1.38	2.8%	
PCB-144 22'345'6-HxCB	33.83	3.56E+05	1.23 Y	1.18	1.22	3.1%	
PCB-147/149 ...-HxCB	34.13	6.56E+05	1.34 Y	1.18	1.12	-4.6%	
PCB-134 22'33'56-HxCB	34.30	2.84E+05	1.23 Y	0.92	0.97	5.0%	
PCB-143 22'3456'-HxCB	34.39	3.14E+05	1.30 Y	1.13	1.07	-4.7%	
PCB-139/140 ...-HxCB	34.65	7.00E+05	1.27 Y	1.21	1.20	-0.6%	
PCB-131 22'33'46-HxCB	34.82	2.97E+05	1.27 Y	1.03	1.02	-0.8%	
PCB-142 22'3456-HxCB	34.97	2.79E+05	1.25 Y	0.99	0.96	-3.4%	
PCB-132 22'33'46'-HxCB	35.21	3.02E+05	1.27 Y	1.03	1.03	0.2%	
PCB-133 22'33'55'-HxCB	35.61	3.31E+05	1.25 Y	1.13	1.13	0.1%	
PCB-165 233'55'6-HxCB	35.95	4.11E+05	1.27 Y	1.41	1.41	-0.2%	
PCB-146 22'34'55'-HxCB	36.16	3.49E+05	1.21 Y	1.20	1.19	-0.7%	
PCB-161 233'45'6-HxCB	36.28	4.37E+05	1.25 Y	1.52	1.50	-1.6%	
PCB-153/168 ...-HxCB	36.72	8.08E+05	1.27 Y	1.46	1.38	-5.0%	
PCB-141 22'3455'-HxCB	36.86	3.22E+05	1.27 Y	1.09	1.10	1.3%	
PCB-130 22'33'45'-HxCB	37.20	2.84E+05	1.16 Y	0.97	0.97	0.0%	
PCB-137 22'344'5-HxCB	37.41	3.47E+05	1.24 Y	1.16	1.19	2.0%	
PCB-164 233'4'5'6-HxCB	37.49	3.94E+05	1.20 Y	1.50	1.35	-10.0%	
PCB-163/138/129 ...-HxCB	37.78	1.03E+06	1.26 Y	1.19	1.18	-1.1%	
PCB-160 233'456-HxCB	37.92	4.35E+05	1.23 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.10	4.94E+05	1.30 Y	1.66	1.69	1.8%	
PCB-128/166 ...-HxCB	38.84	7.41E+05	1.33 Y	0.90	0.86	-4.7%	
PCB-159 233'455'-HxCB	39.65	4.73E+05	1.12 Y	1.11	1.09	-1.9%	
PCB-162 233'4'55'-HxCB	39.89	4.43E+05	1.33 Y	1.07	1.03	-4.3%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-179 22'33'566'-HpCB	35.84	2.95E+05	1.06 Y	1.16	1.19	2.3%	
PCB-184 22'344'66'-HpCB	36.31	2.83E+05	0.94 Y	1.13	1.14	1.1%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.00E+05	1.06 Y	1.23	1.21	-1.8%	
PCB-186 22'34566'-HpCB	37.00	2.82E+05	1.10 Y	1.13	1.14	1.0%	
PCB-178 22'33'55'6'-HpCB	38.13	2.19E+05	1.14 Y	0.84	0.88	4.6%	
PCB-175 22'33'45'6'-HpCB	38.68	2.90E+05	1.08 Y	1.07	1.02	-4.9%	
PCB-187 22'34'55'6'-HpCB	38.91	3.08E+05	1.11 Y	1.14	1.08	-4.8%	
PCB-182 22'344'56'-HpCB	39.09	3.10E+05	1.13 Y	1.18	1.09	-7.2%	
PCB-183 22'344'5'6'-HpCB	39.43	3.29E+05	1.06 Y	1.20	1.16	-4.0%	
PCB-185 22'3455'6'-HpCB	39.52	2.70E+05	1.04 Y	1.06	0.95	-10.4%	
PCB-174 22'33'456'-HpCB	39.63	2.63E+05	1.16 Y	0.99	0.93	-6.3%	
PCB-177 22'33'45'6'-HpCB	40.00	2.64E+05	1.06 Y	0.95	0.93	-2.5%	
PCB-181 22'344'56'-HpCB	40.35	2.93E+05	1.17 Y	1.09	1.03	-5.4%	
PCB-171/173 ...-HpCB	40.54	5.11E+05	1.09 Y	0.95	0.90	-5.3%	
PCB-172 22'33'455'-HpCB	41.89	2.73E+05	1.07 Y	0.99	0.96	-3.0%	
PCB-192 233'455'6'-HpCB	42.14	3.33E+05	1.10 Y	1.29	1.17	-9.0%	
PCB-180/193 ...-HpCB	42.41	7.15E+05	1.02 Y	1.26	1.26	-0.4%	
PCB-191 233'44'5'6'-HpCB	42.74	3.99E+05	1.10 Y	1.40	1.41	0.7%	
PCB-170 22'33'44'5'-HpCB	43.51	2.56E+05	1.10 Y	1.14	1.09	-4.3%	
PCB-190 233'44'56'-HpCB	43.97	3.84E+05	1.02 Y	1.66	1.63	-1.8%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-201 22'33'45'66'-OcCB	40.90	2.87E+05	1.04 N	1.22	1.16	-4.7%	
PCB-204 22'344'566'-OcCB	41.48	2.72E+05	0.90 Y	1.12	1.10	-1.4%	
PCB-197 22'33'44'66'-OcCB	41.67	3.10E+05	0.94 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.76	2.54E+05	1.01 Y	1.11	1.03	-7.2%	
PCB-198/199 ...-OcCB	44.08	3.97E+05	1.02 Y	0.81	0.80	-0.6%	
PCB-196 22'33'44'56'-OcCB	44.66	2.07E+05	0.90 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.83	2.16E+05	0.86 Y	0.87	0.87	0.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.51E+05	0.94 Y	0.77	0.79	3.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.77E+05	0.96 Y	0.84	0.88	3.8%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-207 22'33'44'566'-NoCB	46.54	3.55E+05	0.76 Y	1.19	1.20	1.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

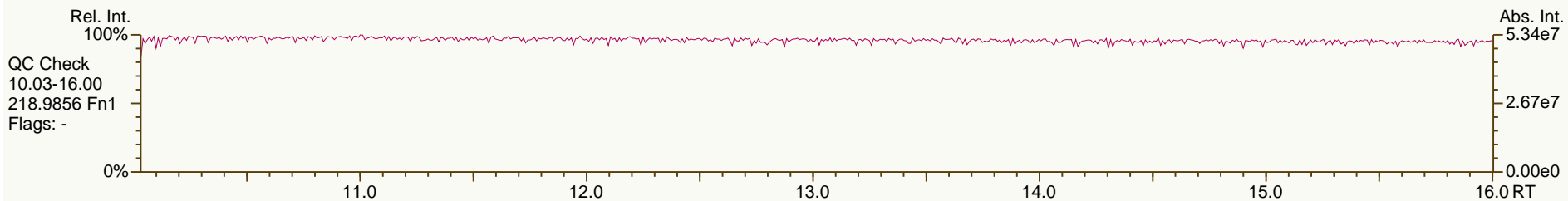
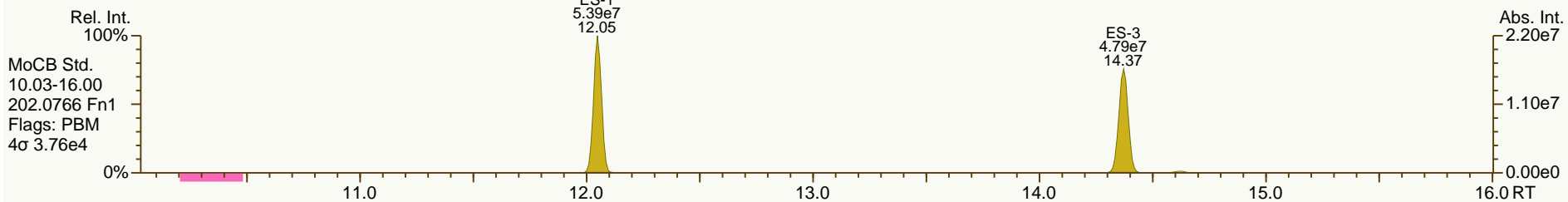
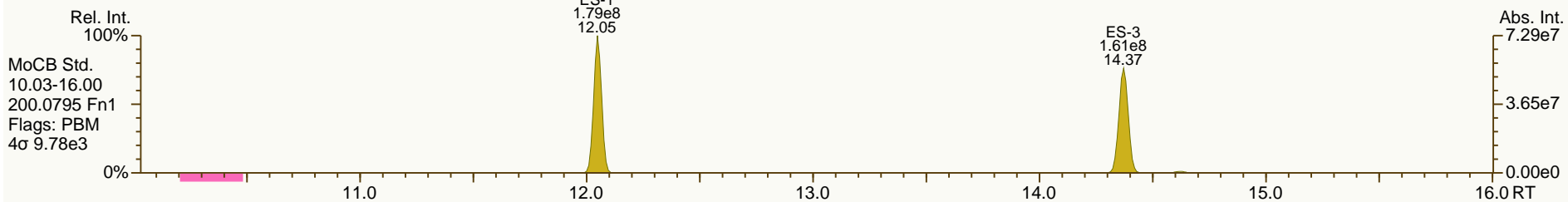
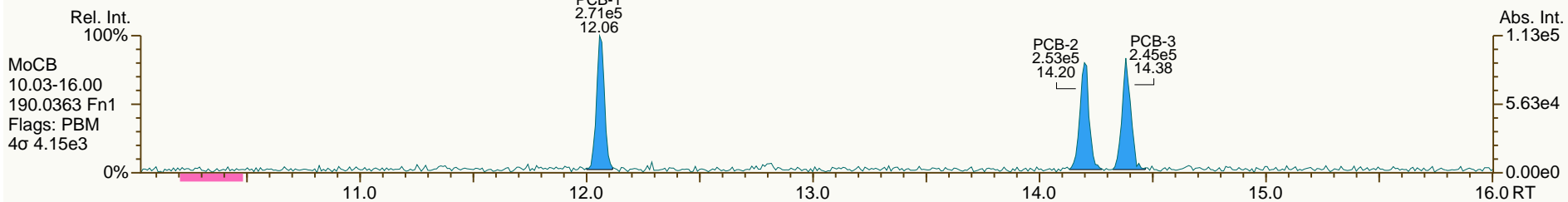
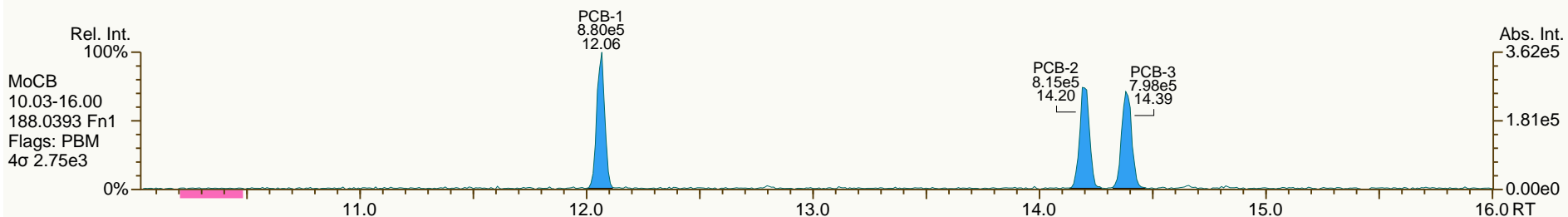
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

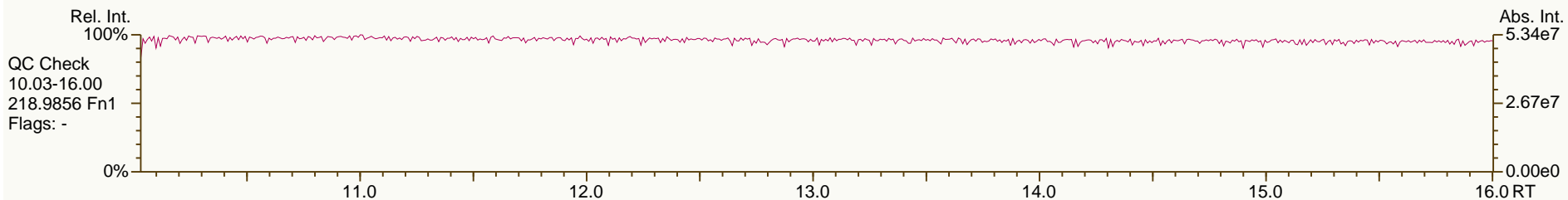
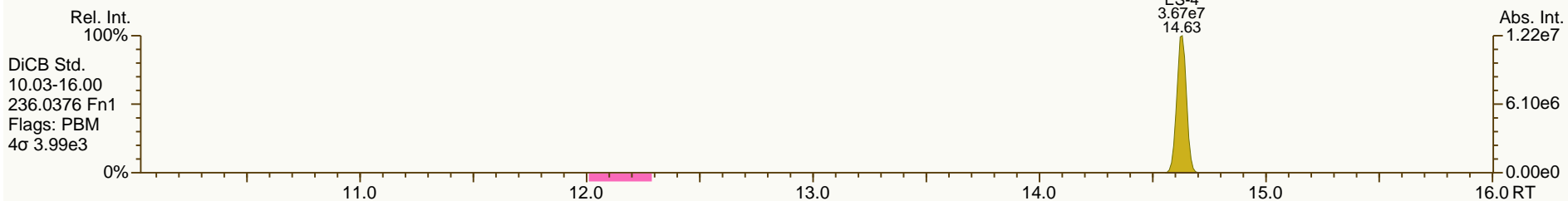
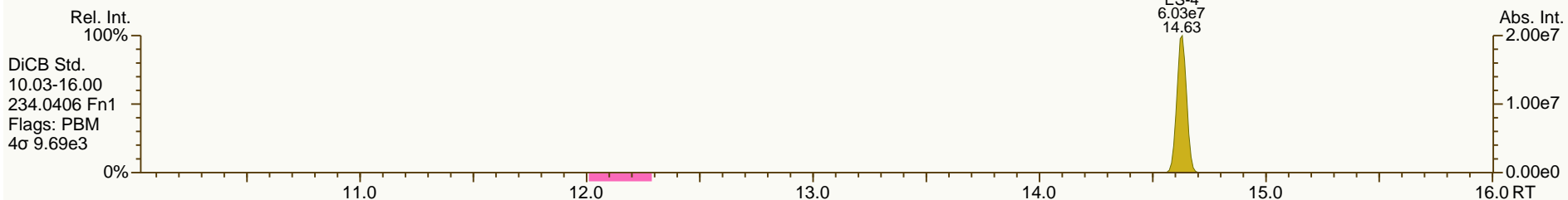
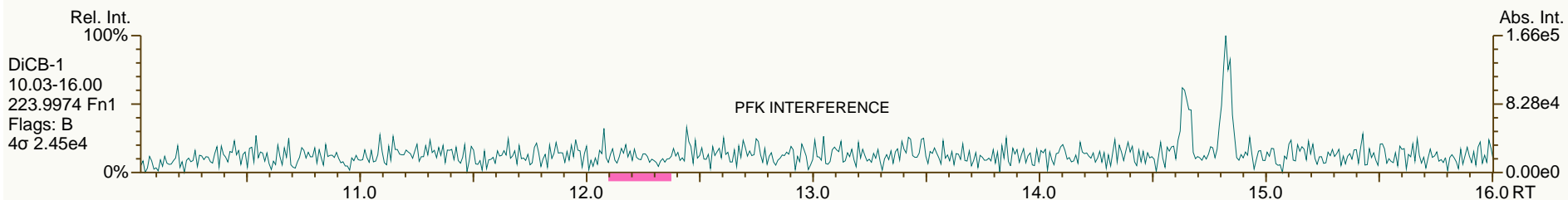
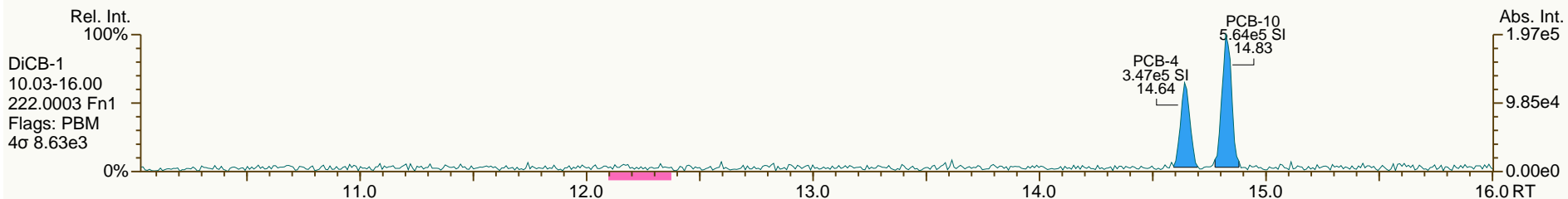
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

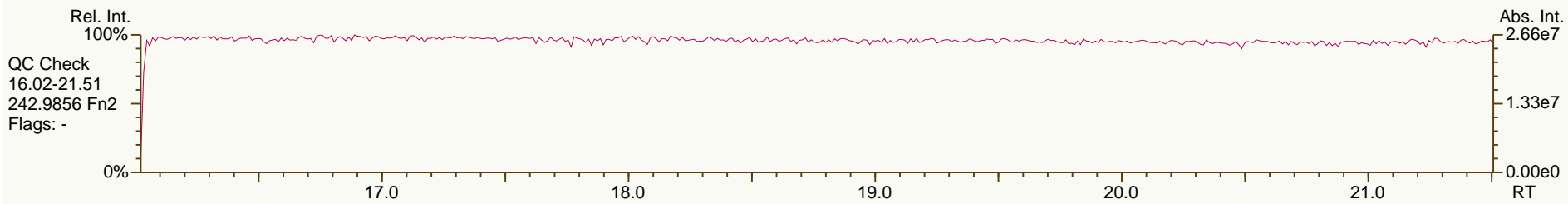
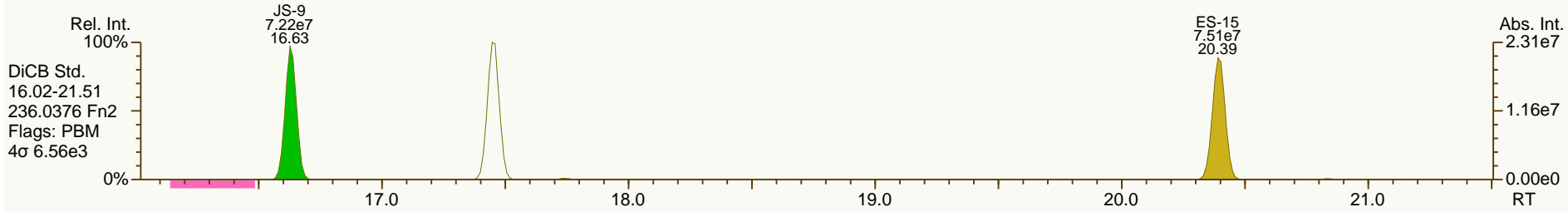
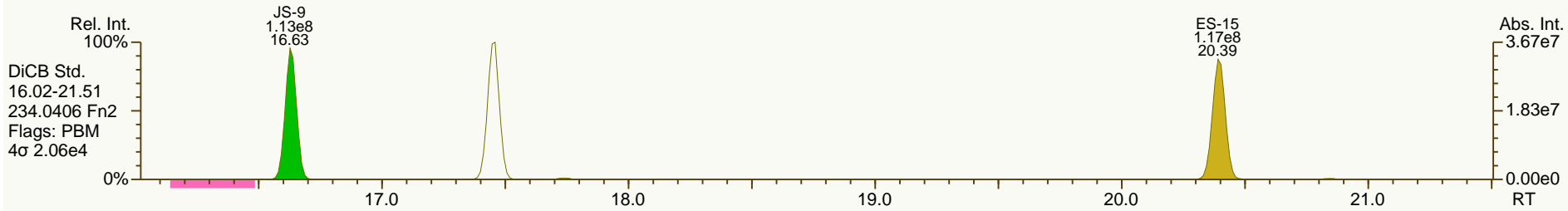
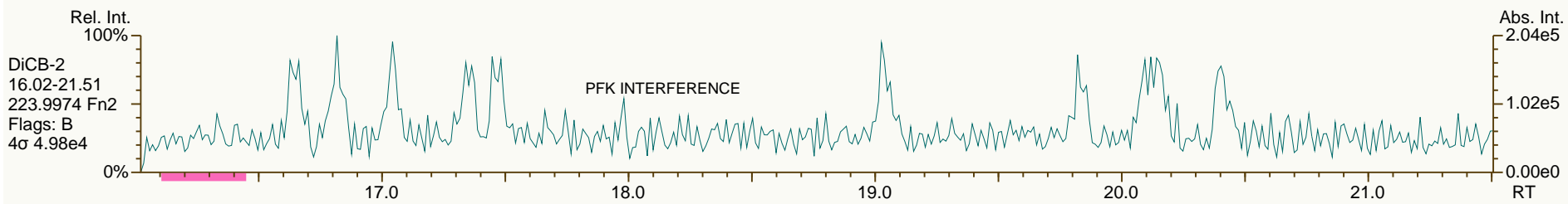
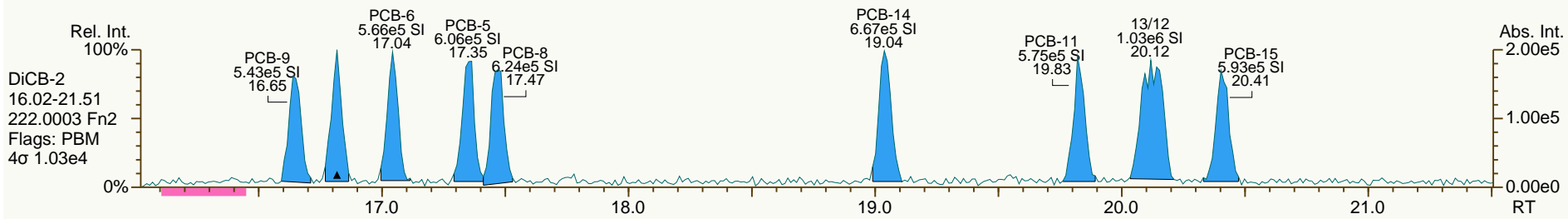
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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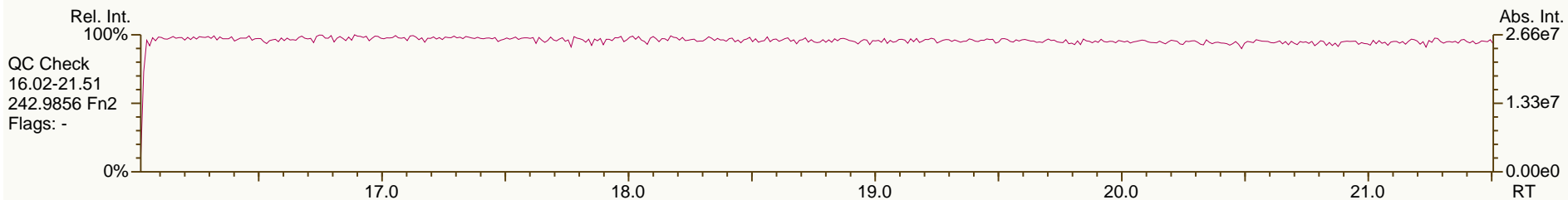
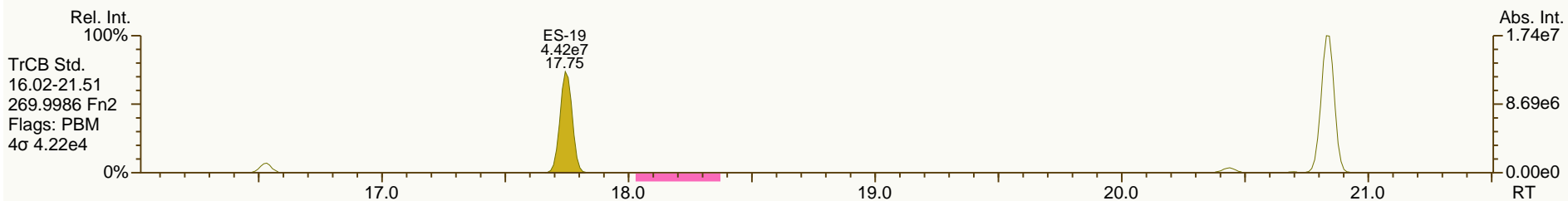
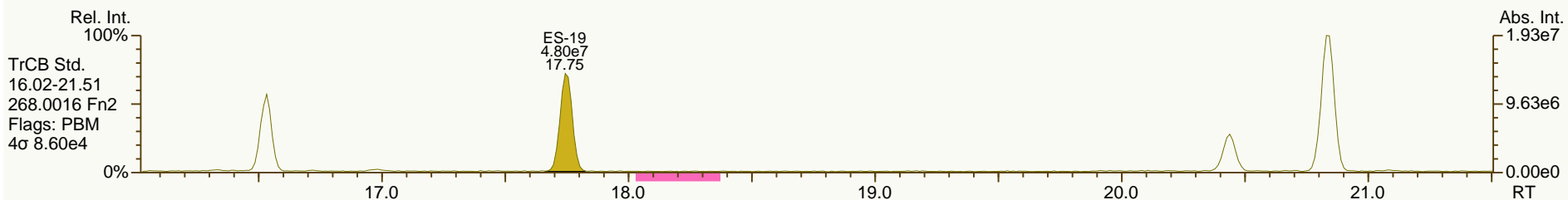
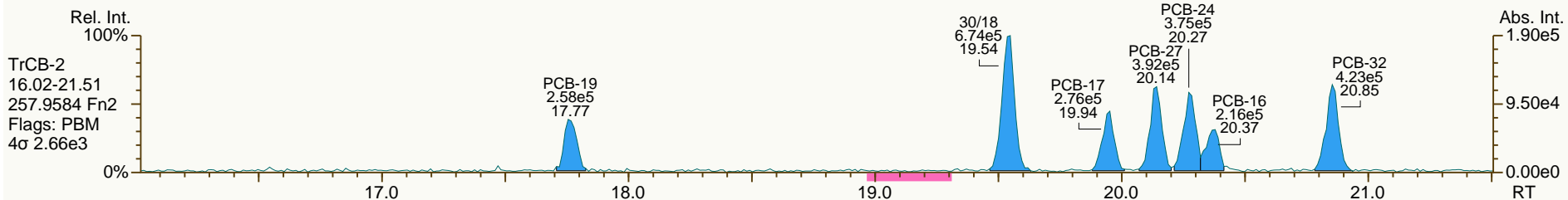
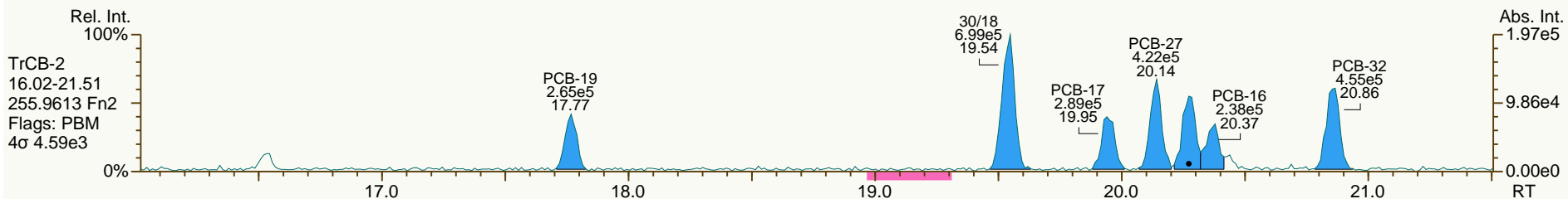
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

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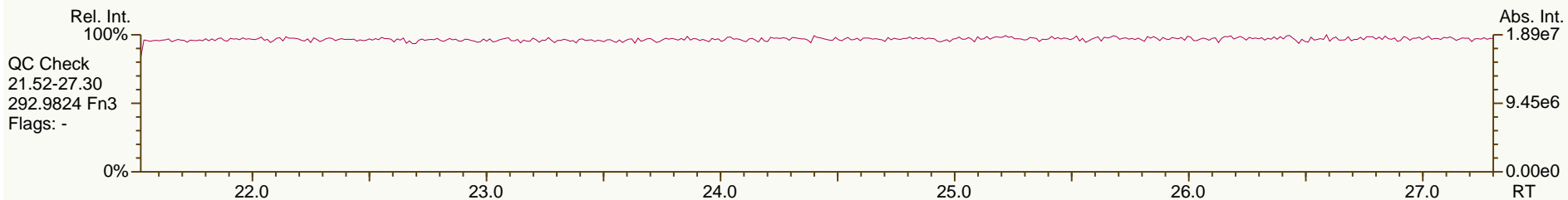
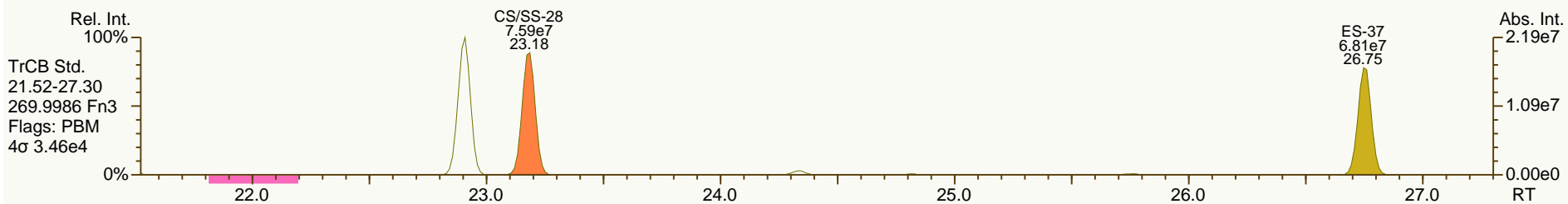
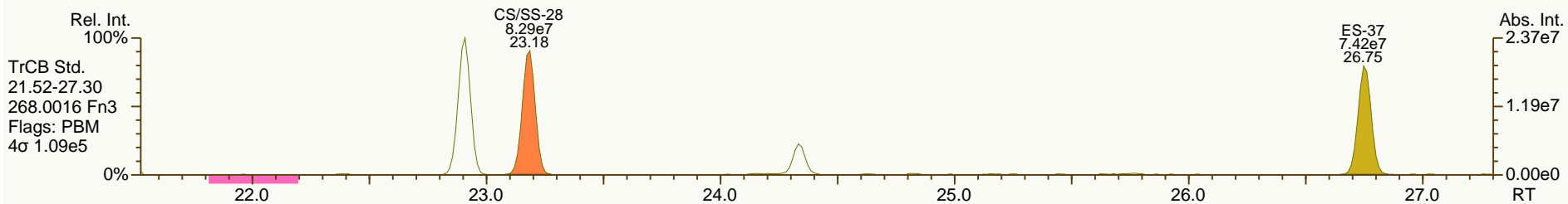
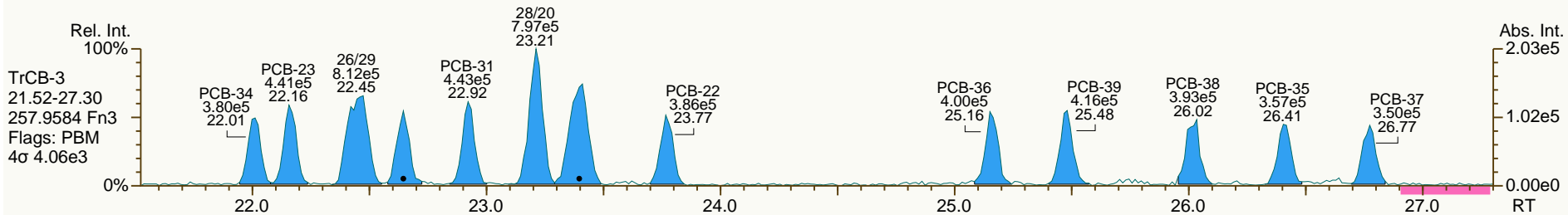
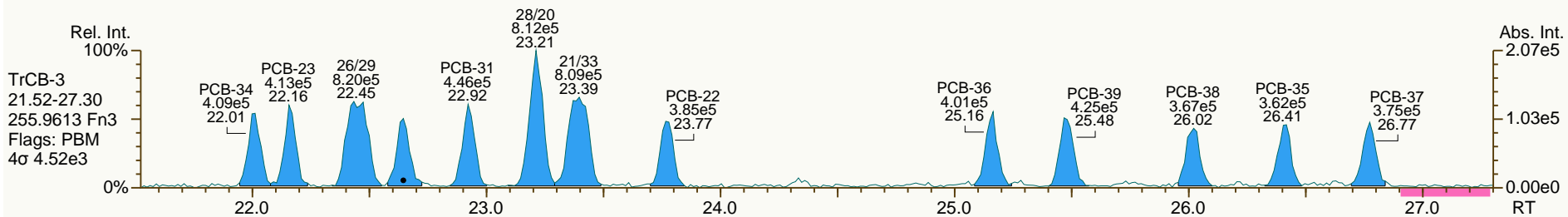




SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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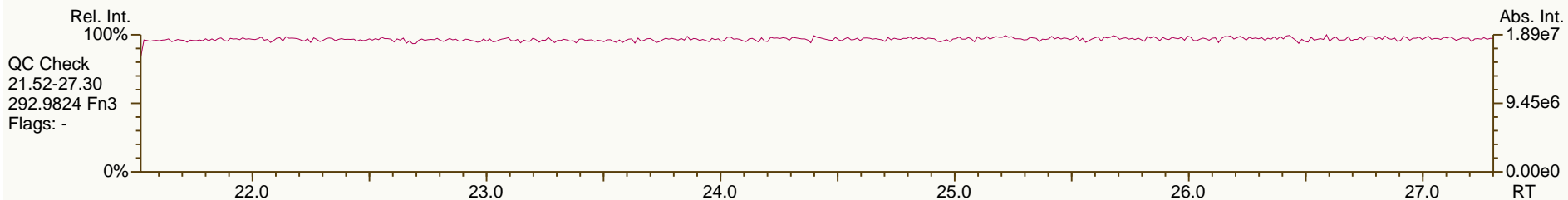
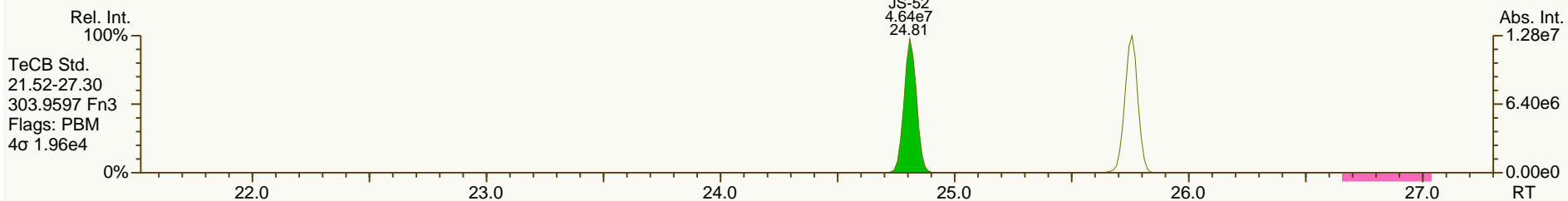
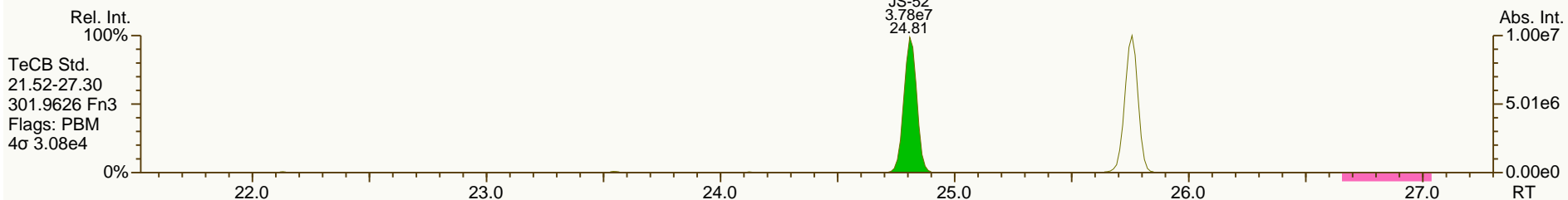
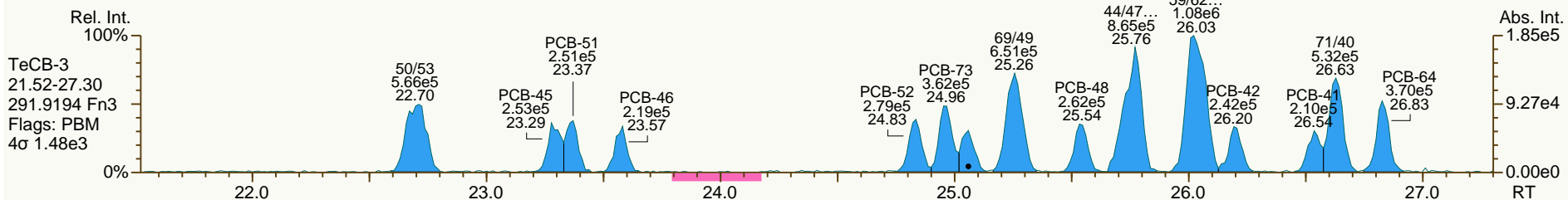
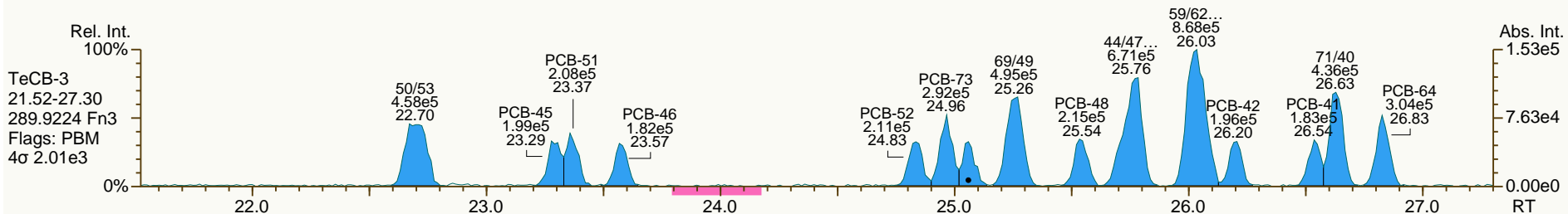
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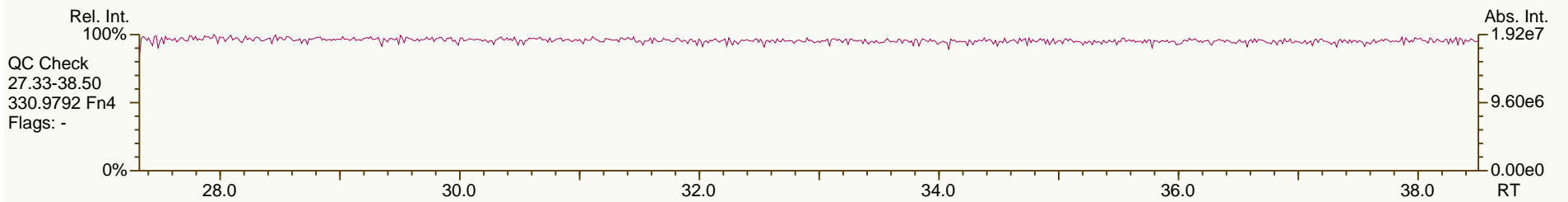
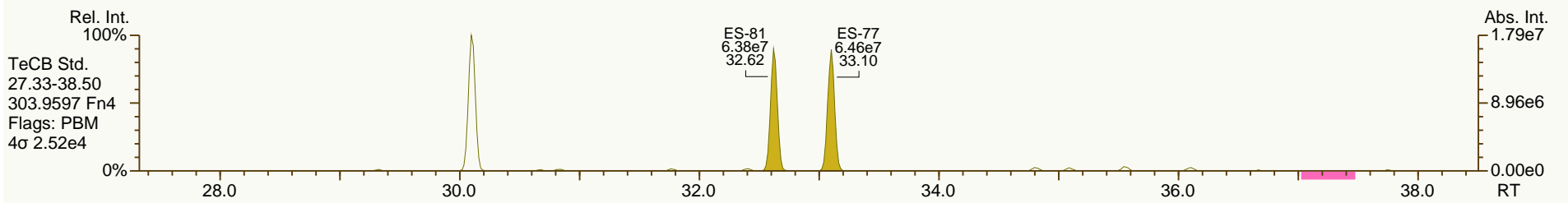
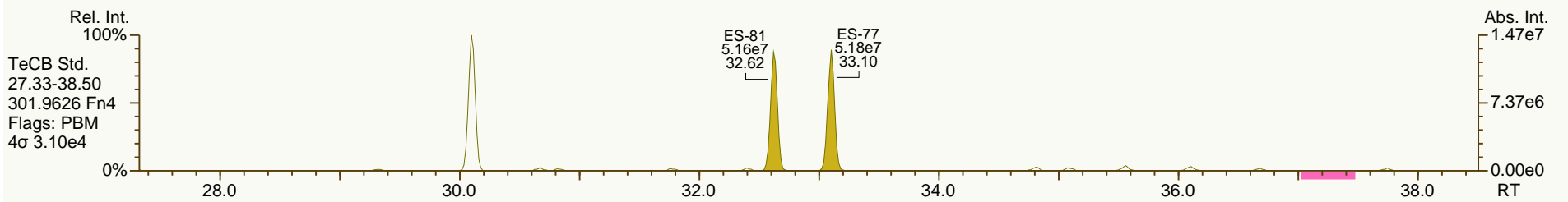
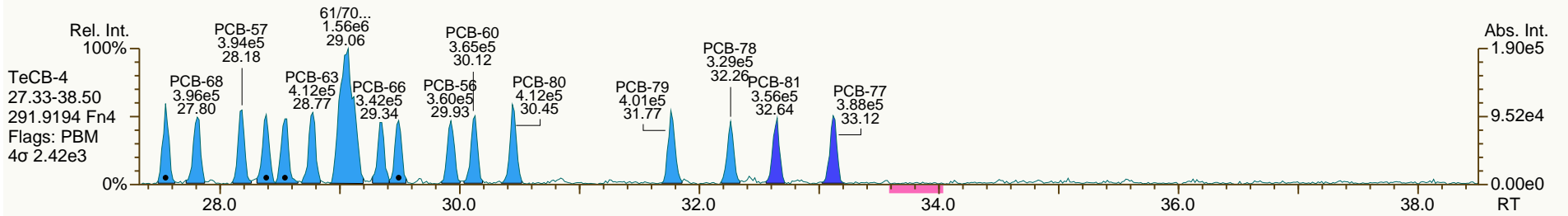
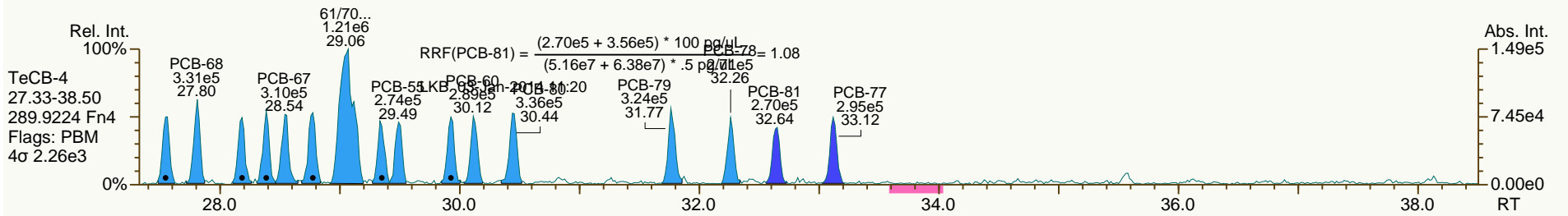
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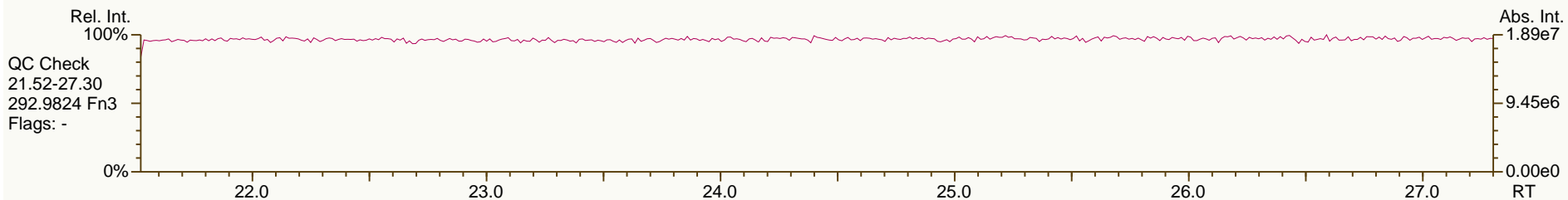
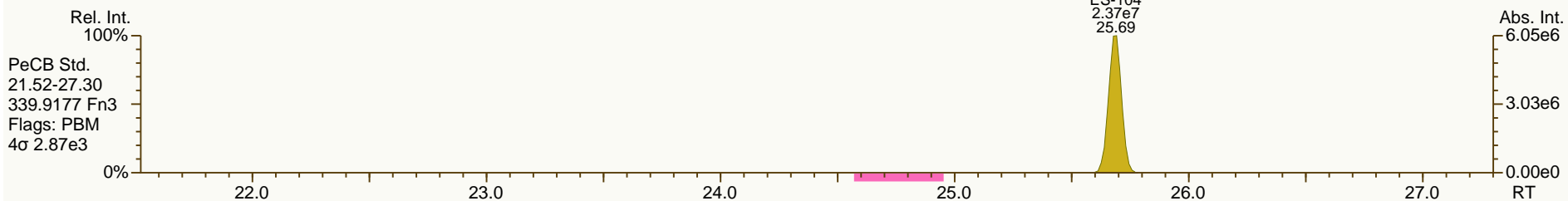
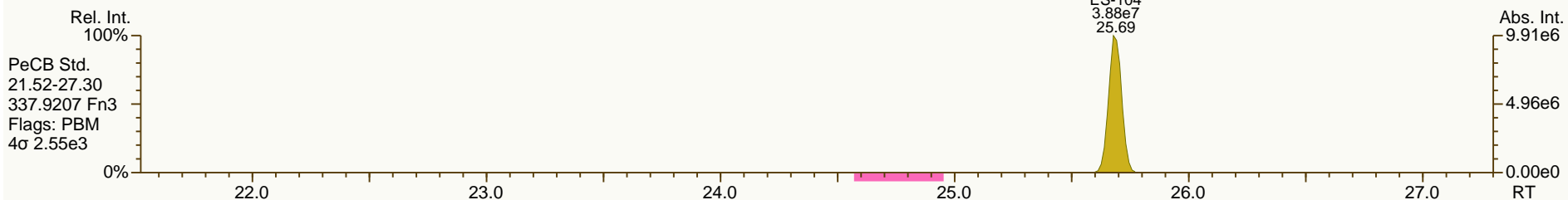
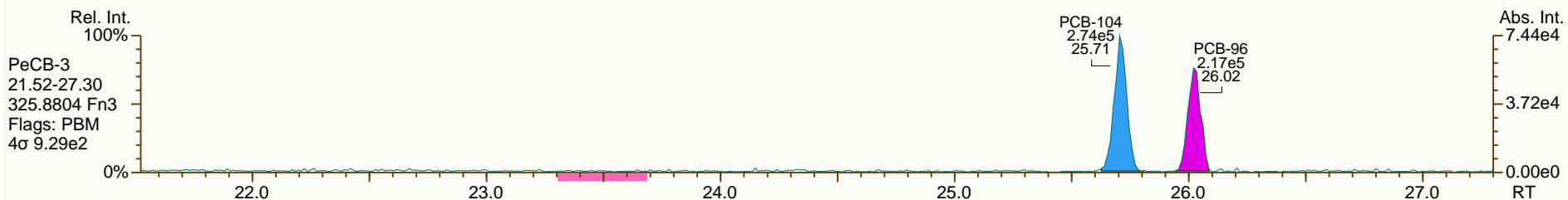
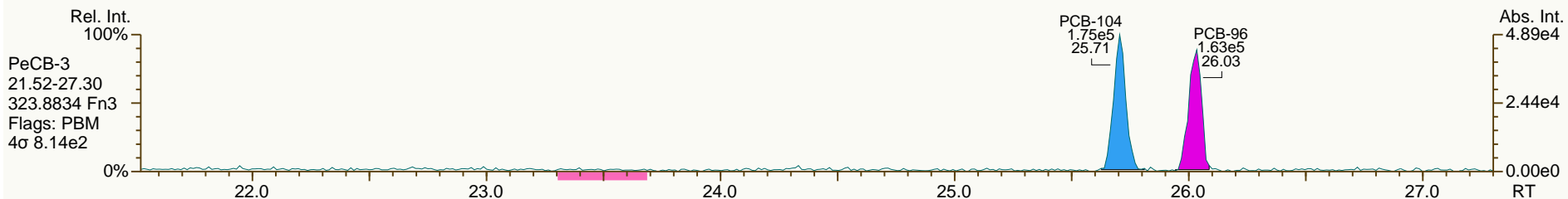
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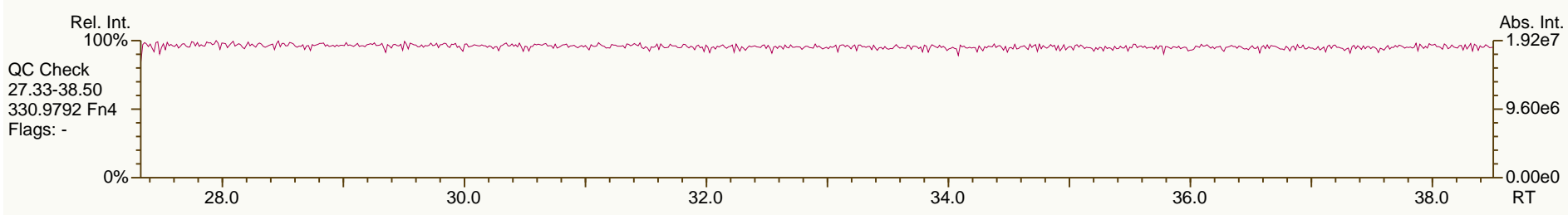
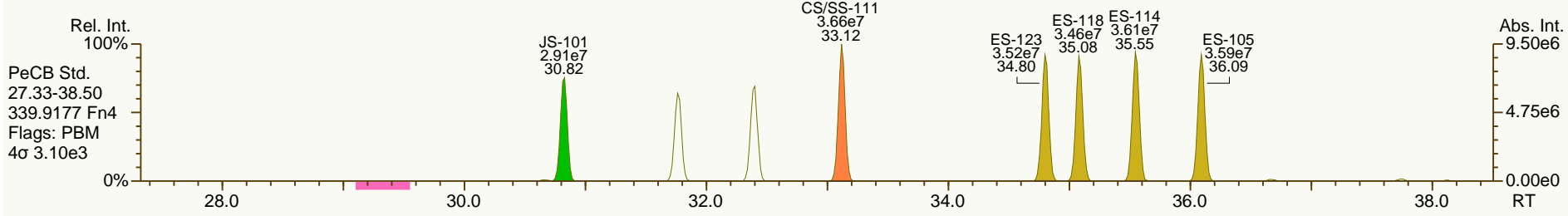
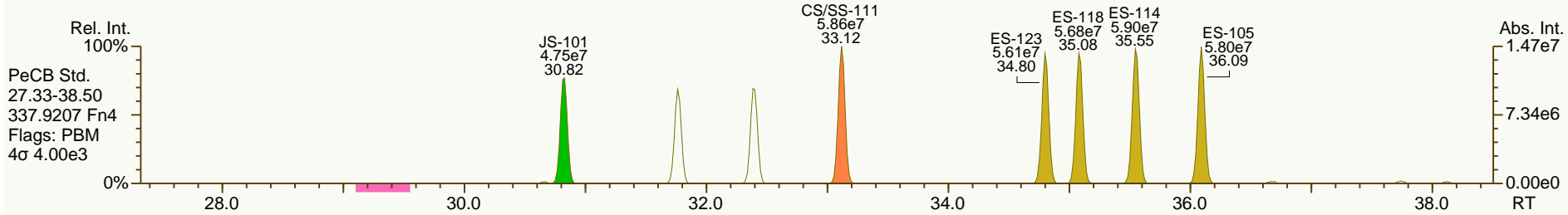
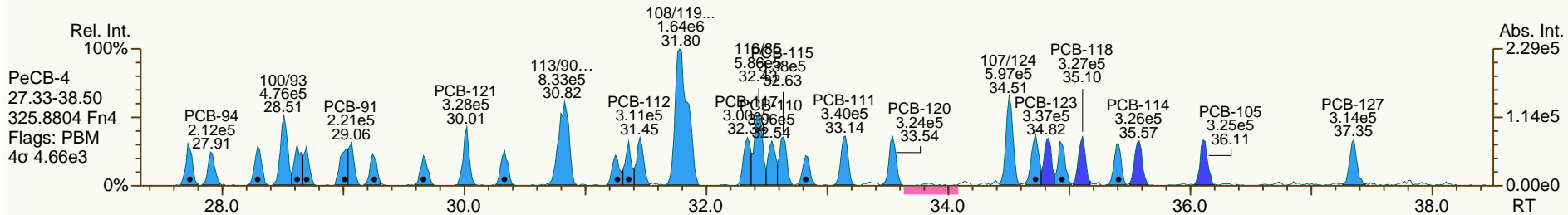
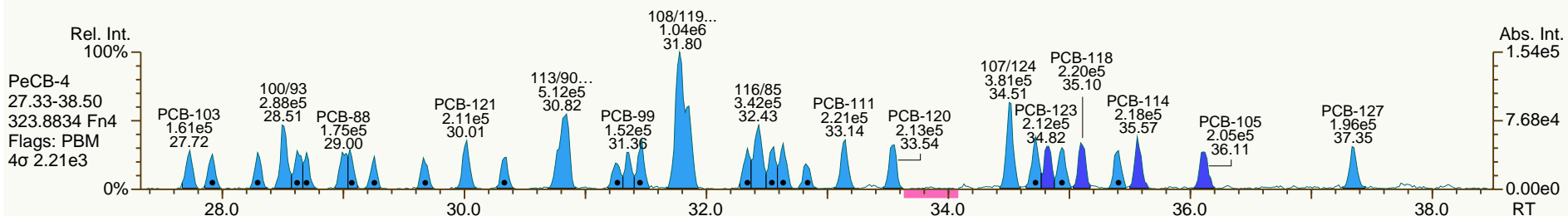
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SGS-AP ID: CS0\_131220\_PCB\_XA  
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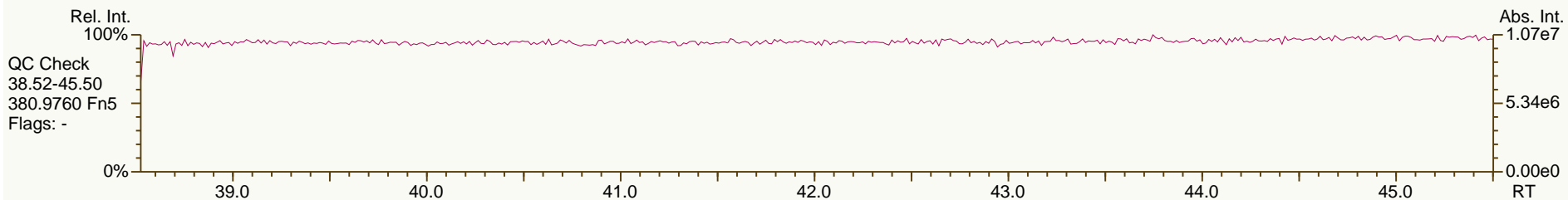
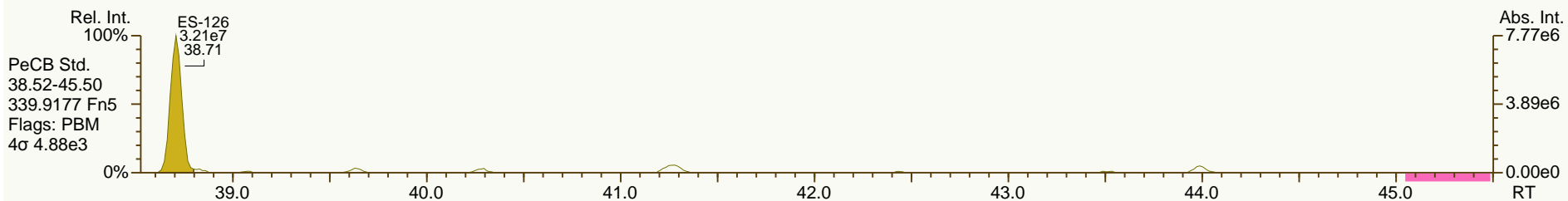
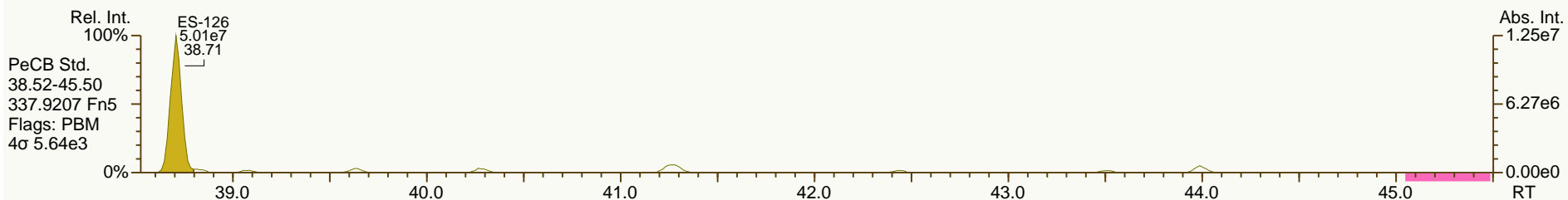
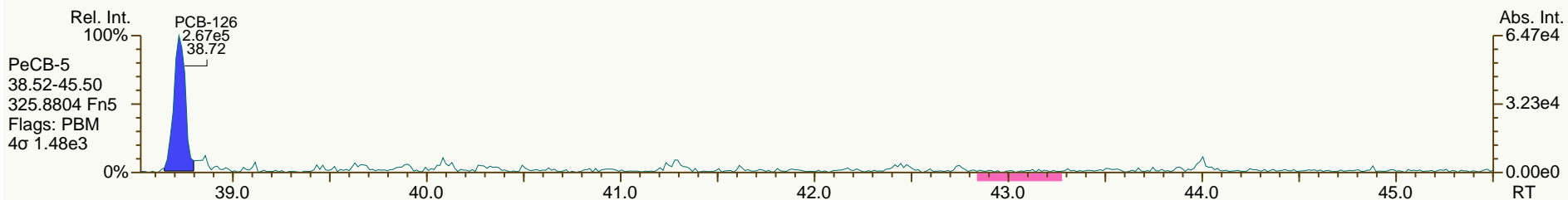
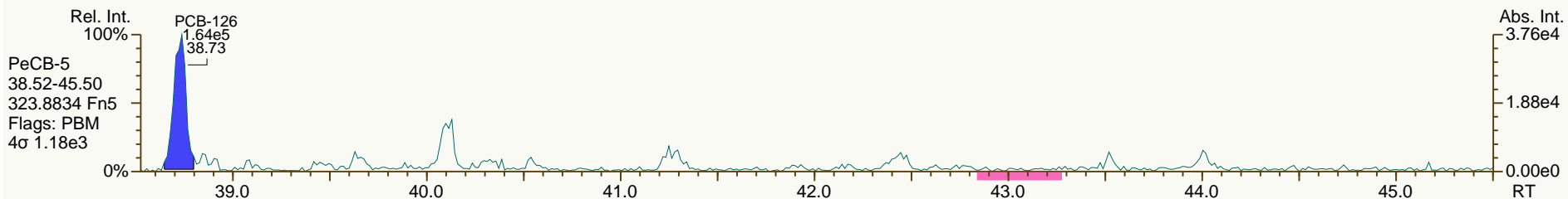
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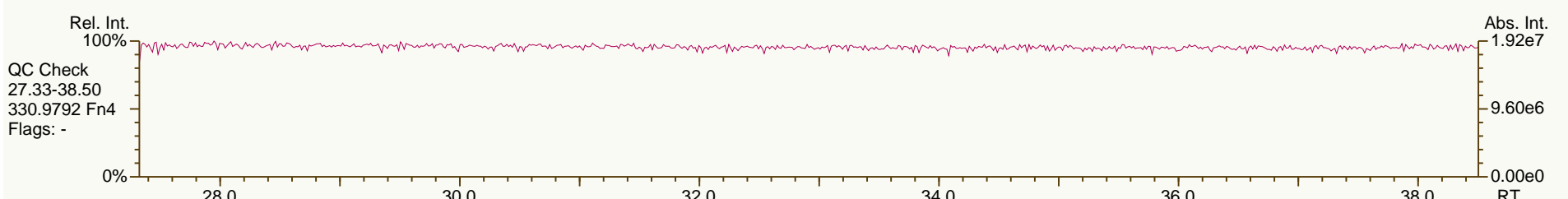
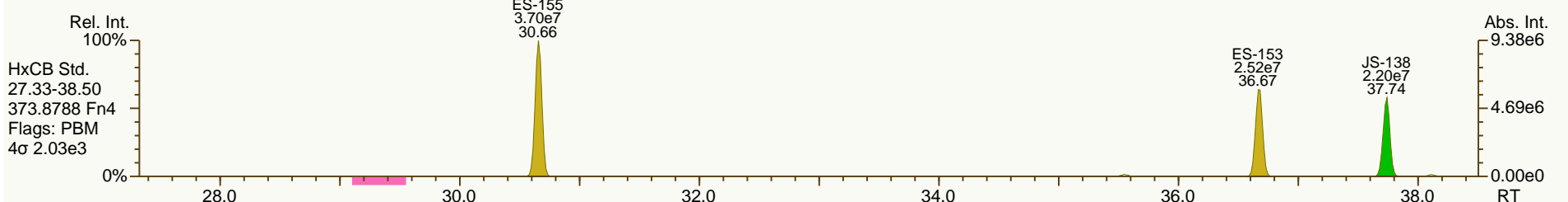
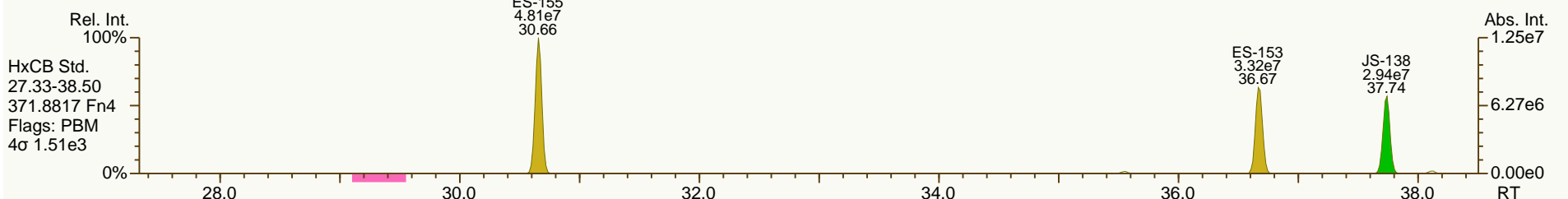
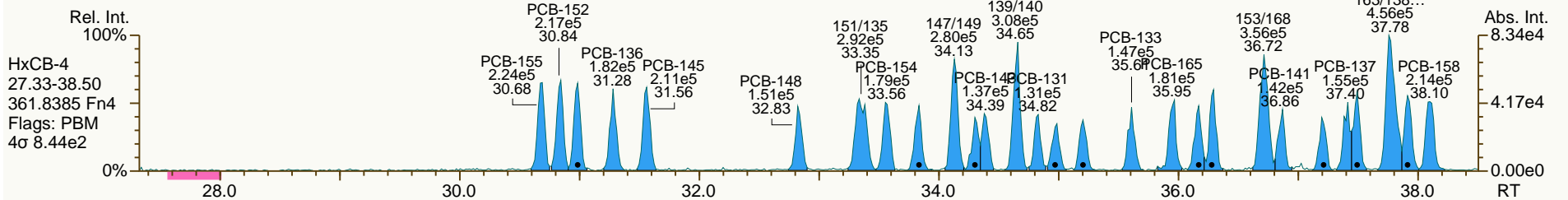
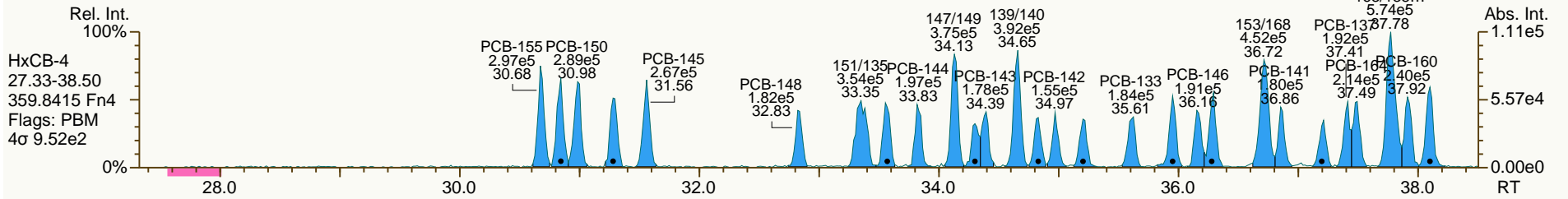
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SGS-AP ID: CS0\_131220\_PCB\_XA  
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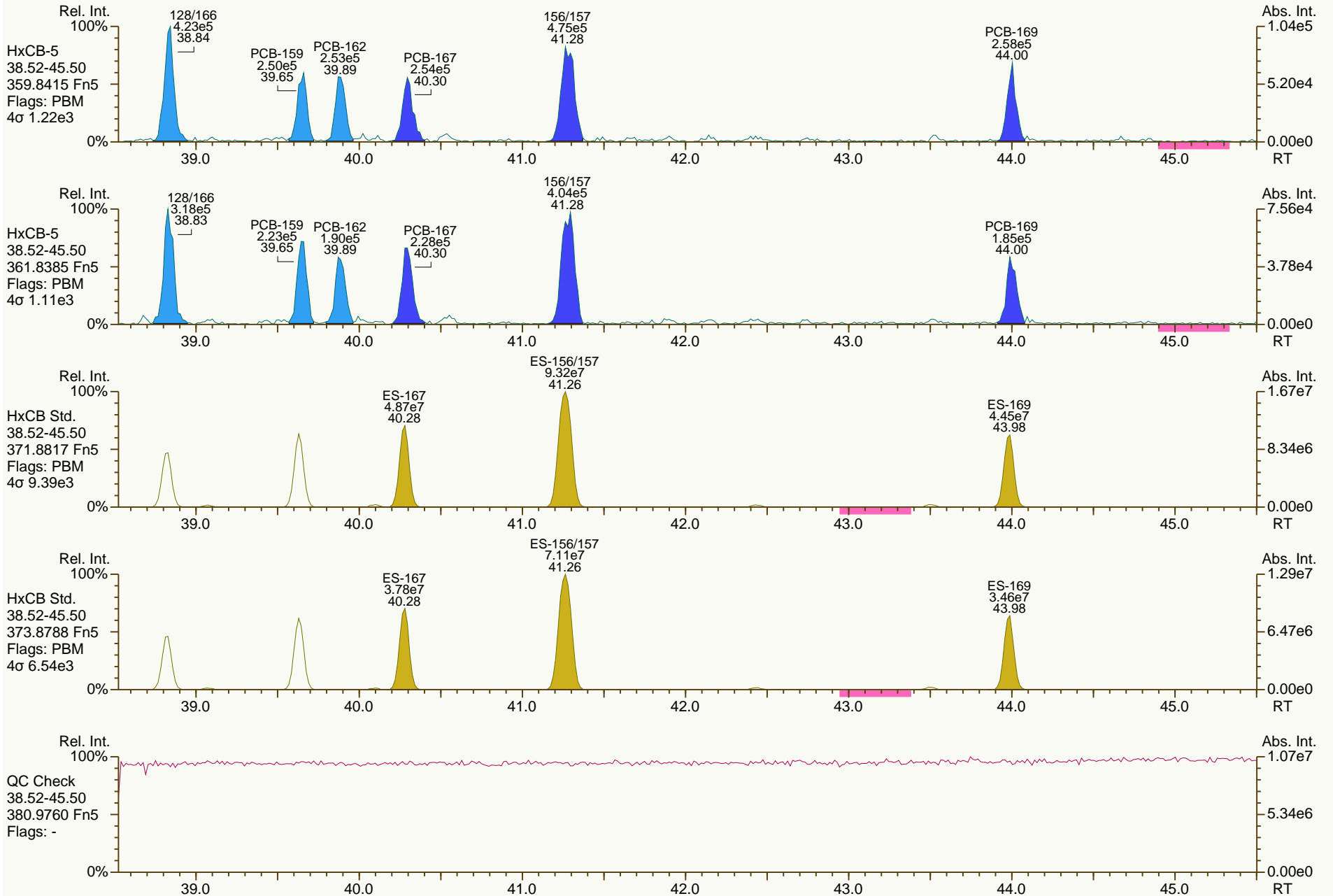




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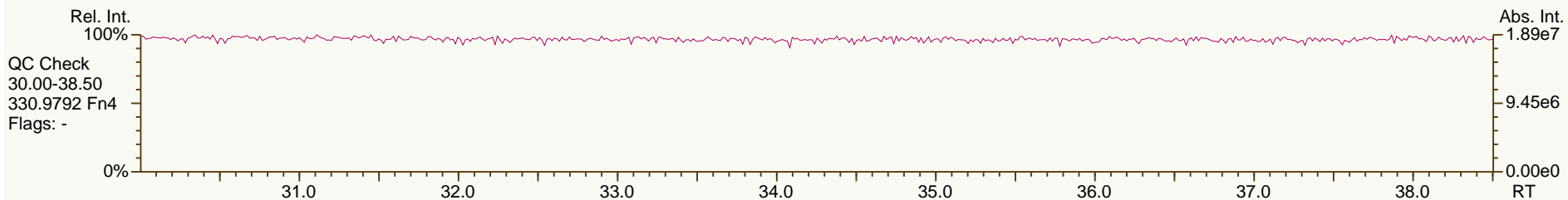
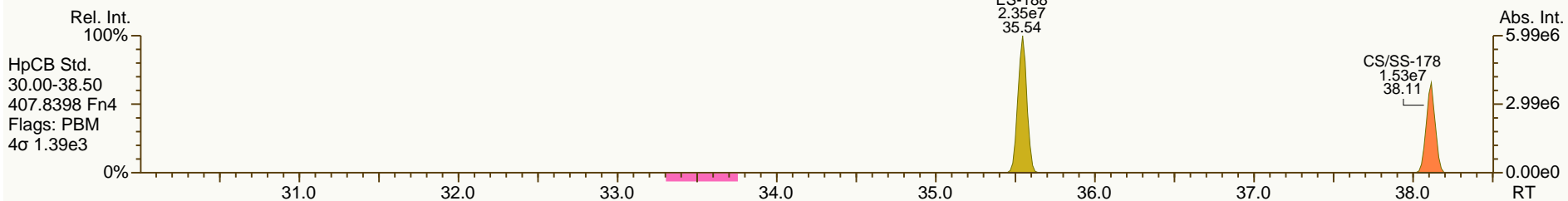
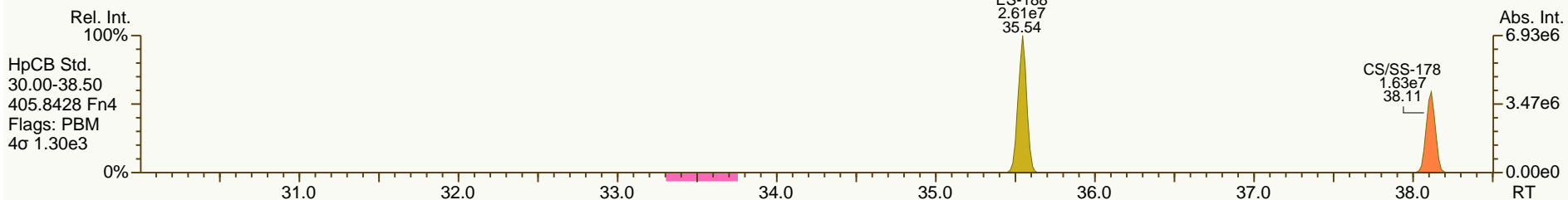
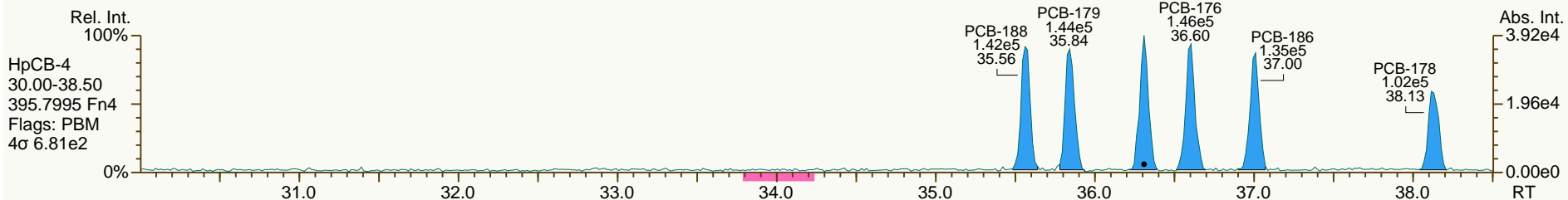
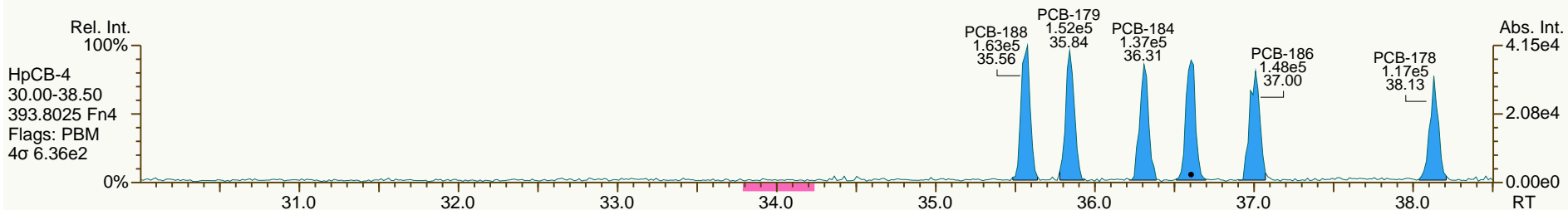
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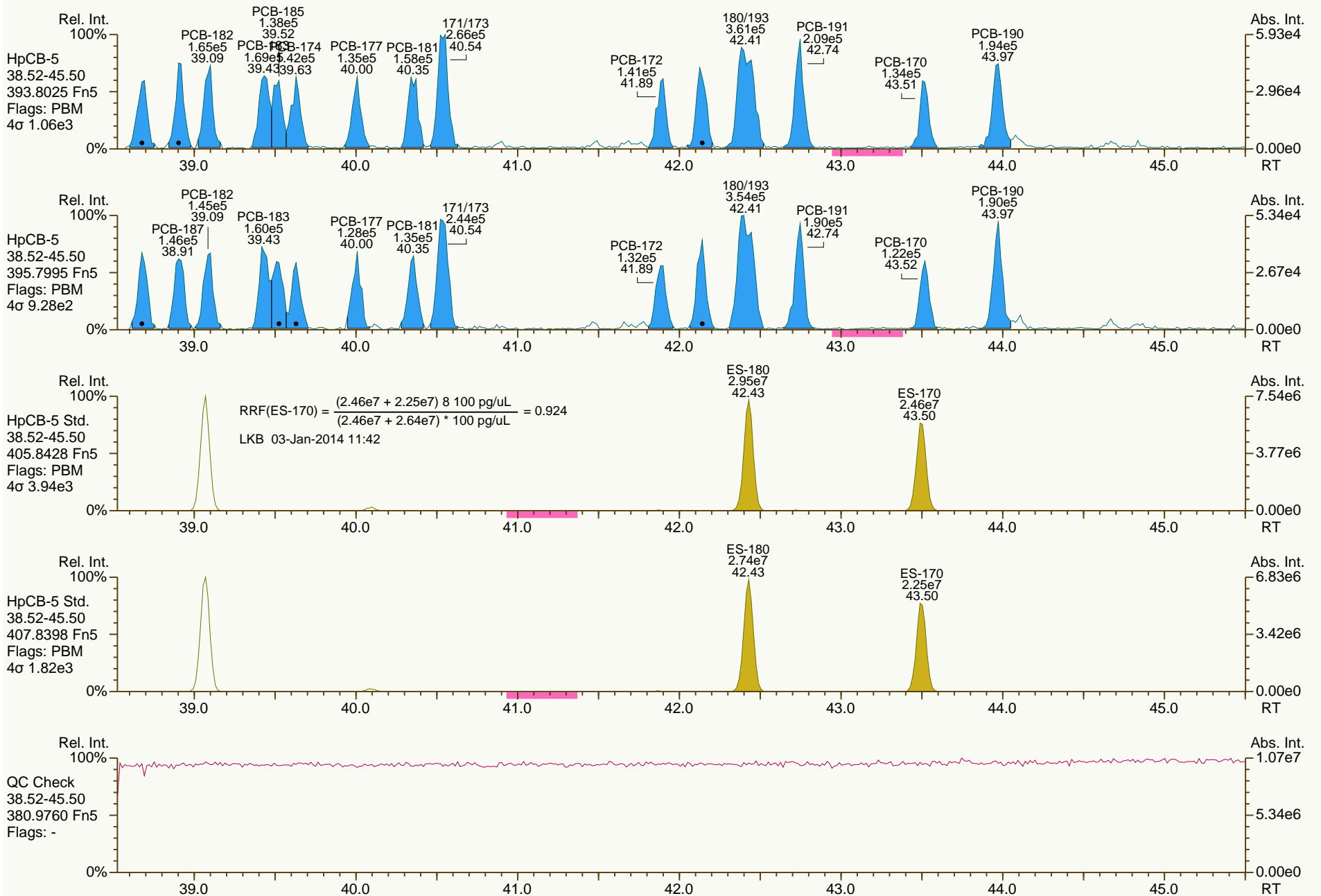
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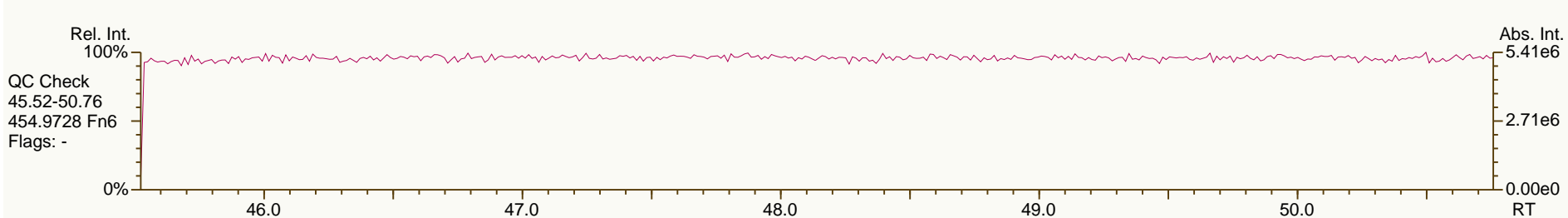
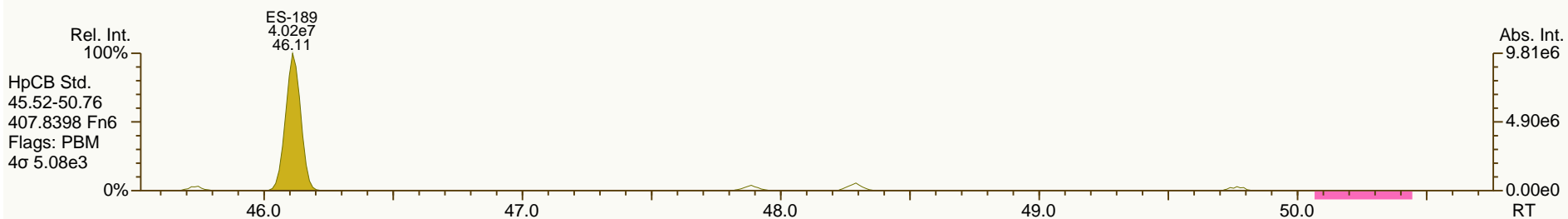
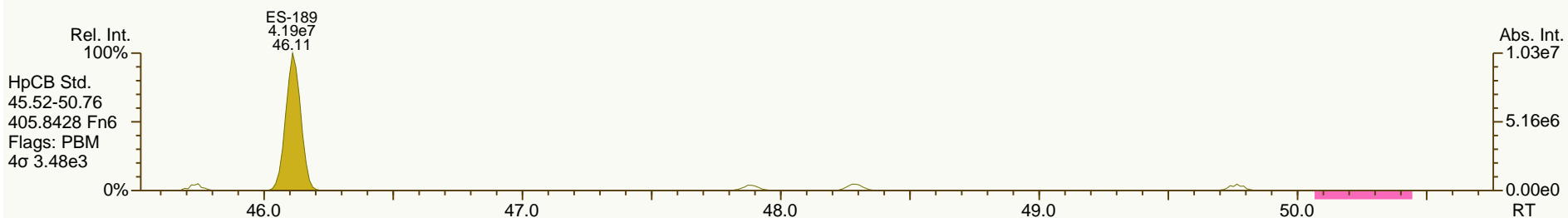
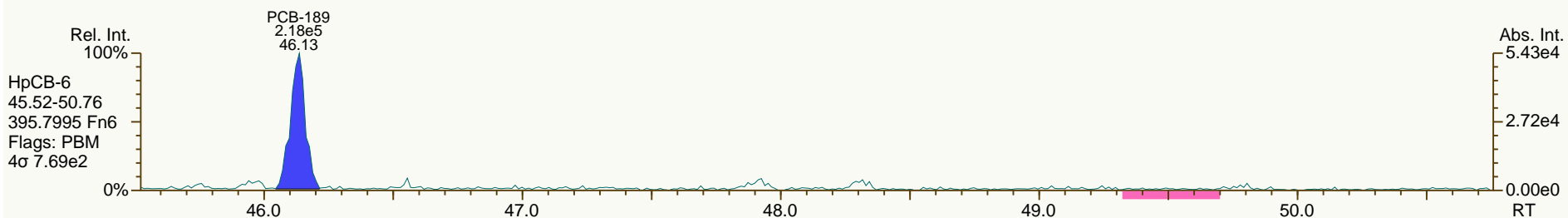
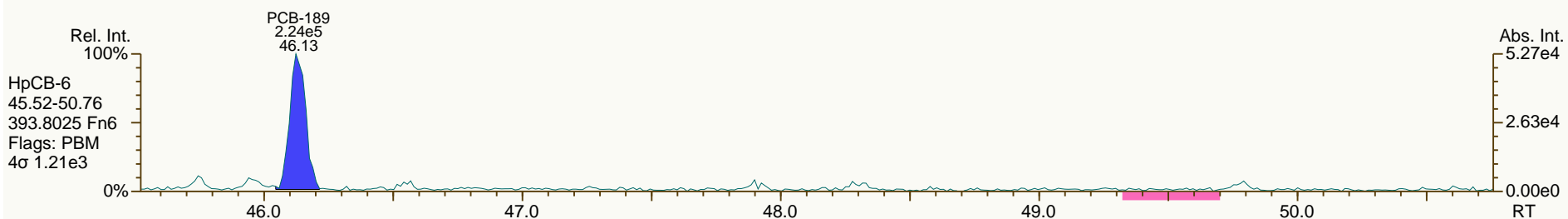
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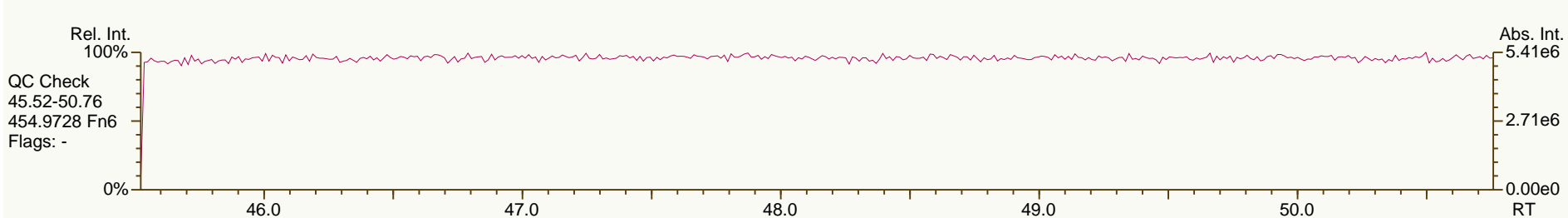
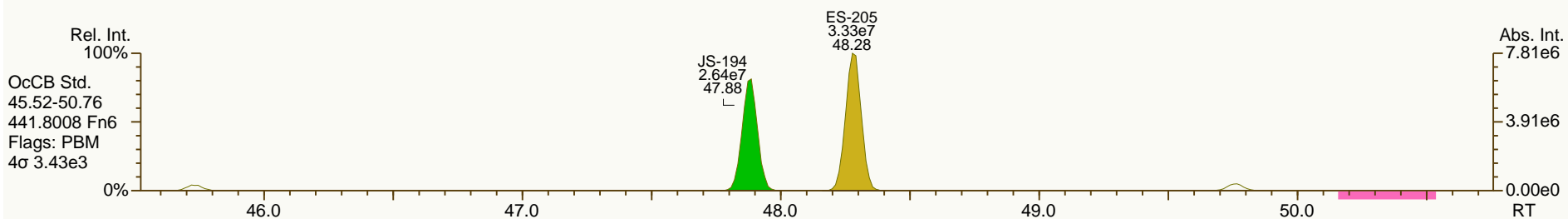
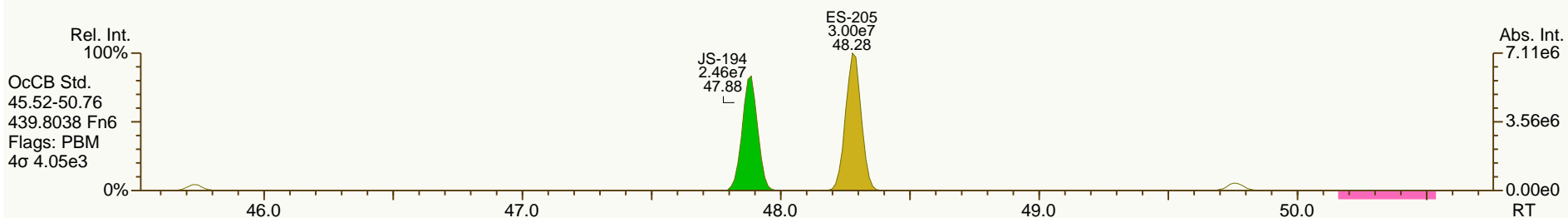
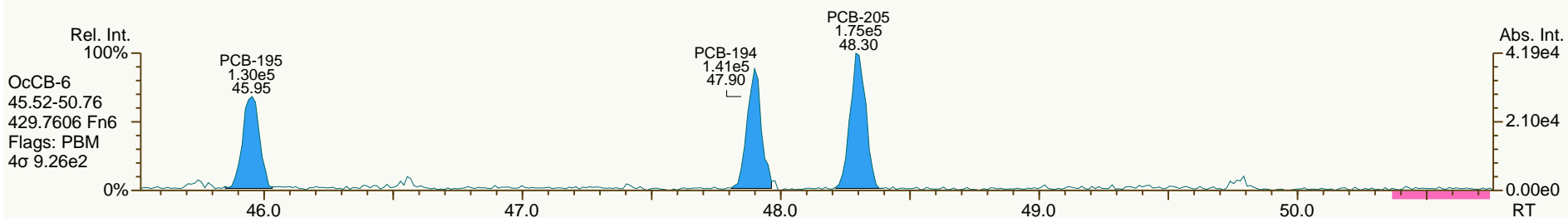
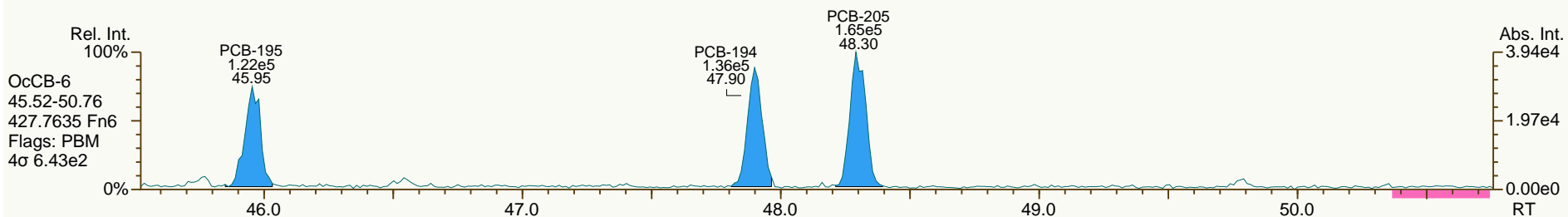
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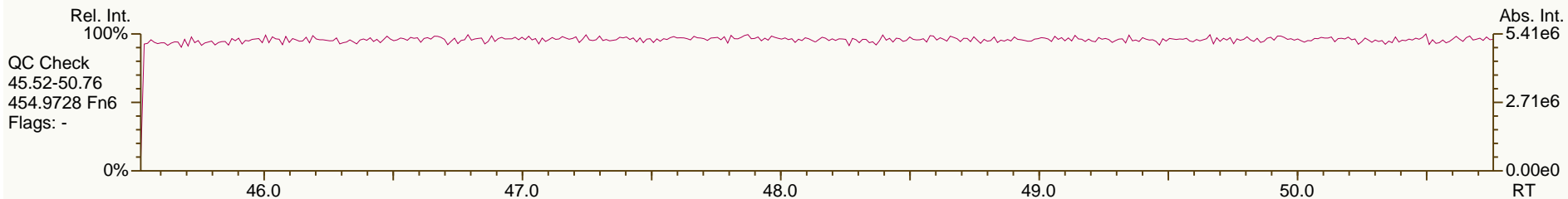
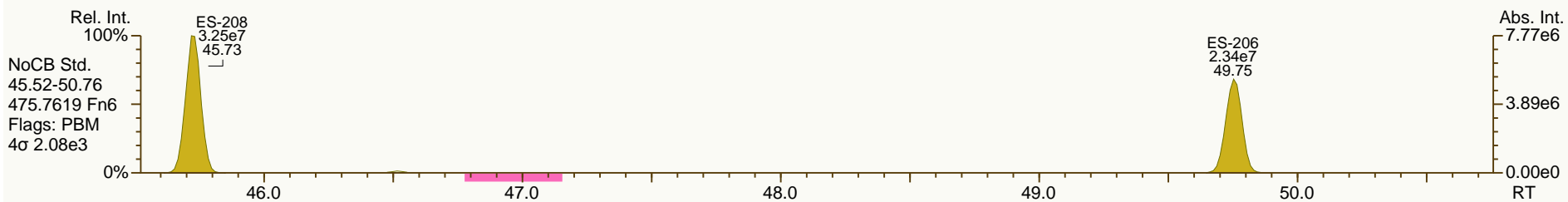
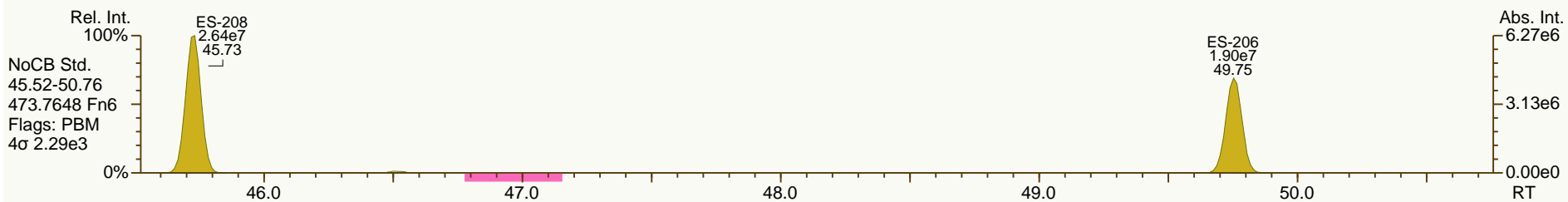
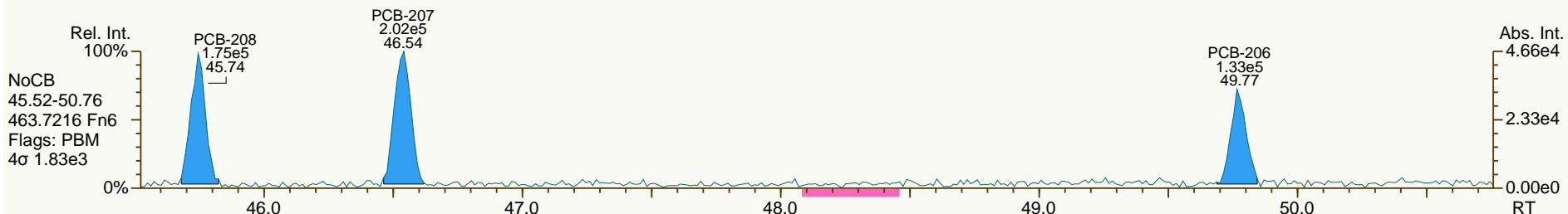
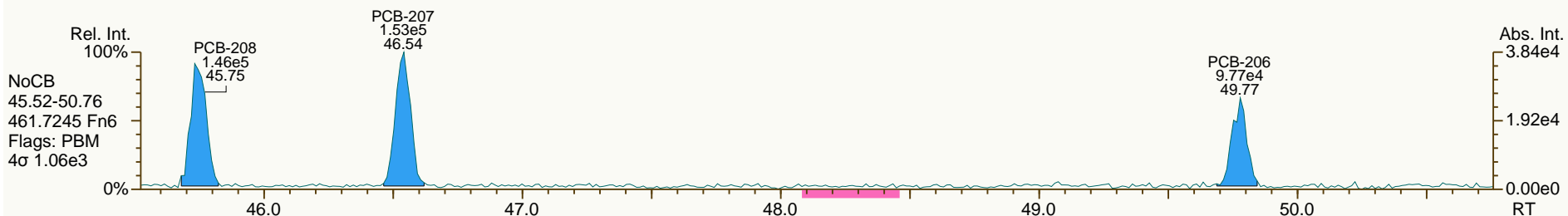
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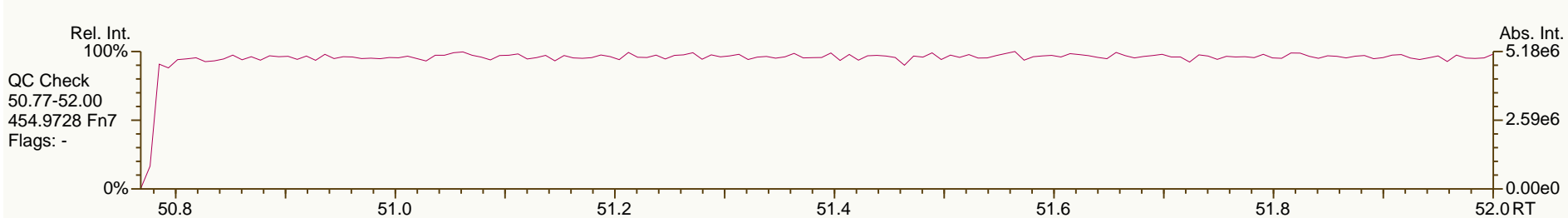
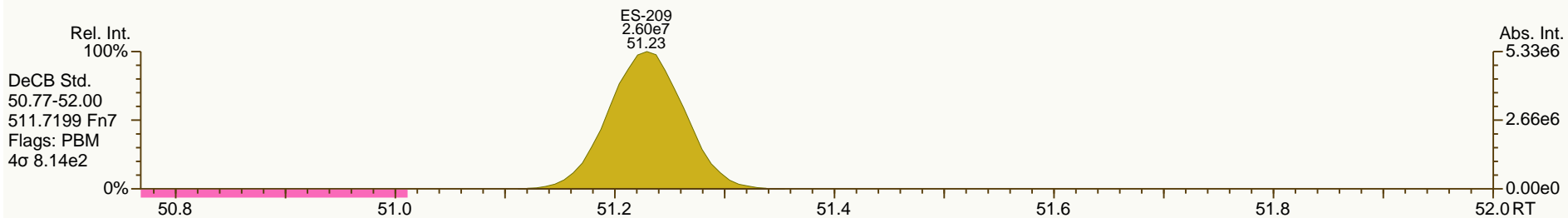
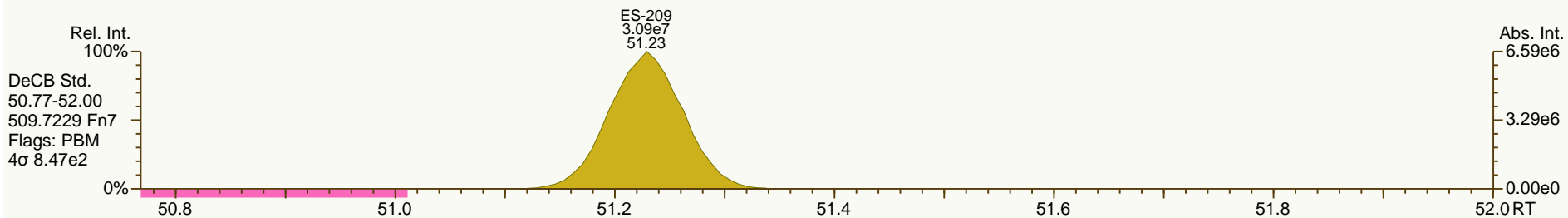
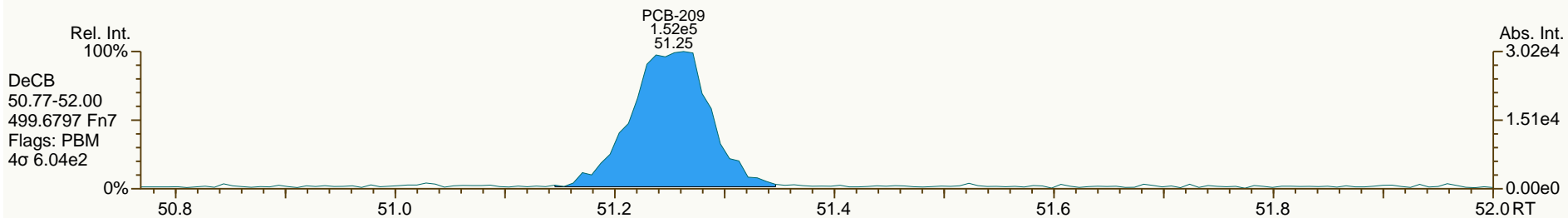
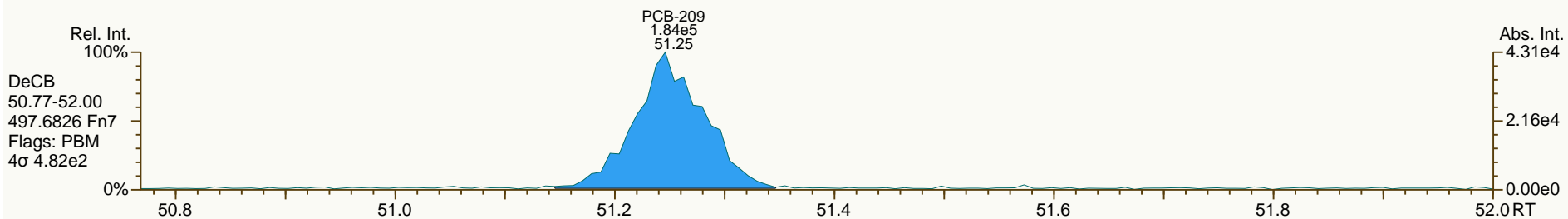
Acq: 20-Dec-2013 14:56:33  
 User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 20-Dec-2013 14:56:33  
 User: LKB Datafile: 131220X02

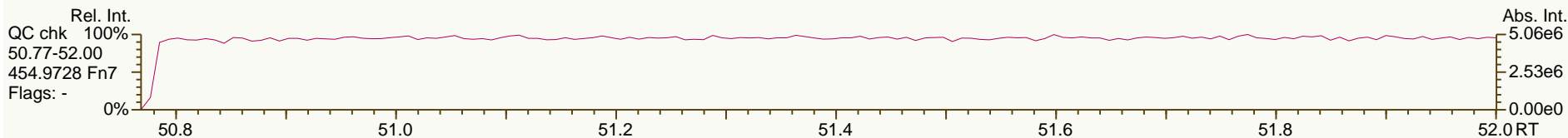
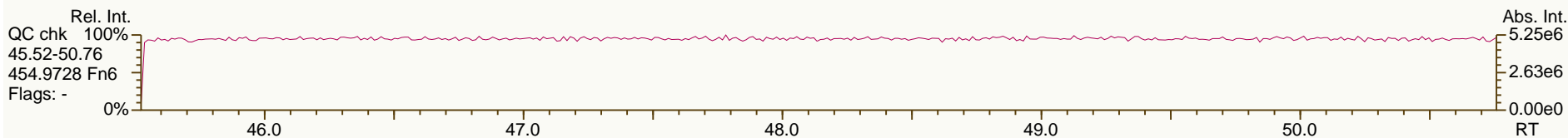
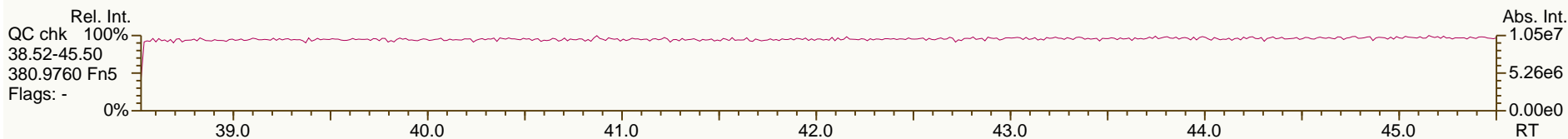
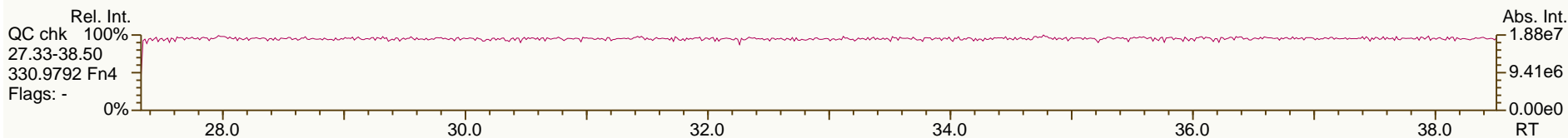
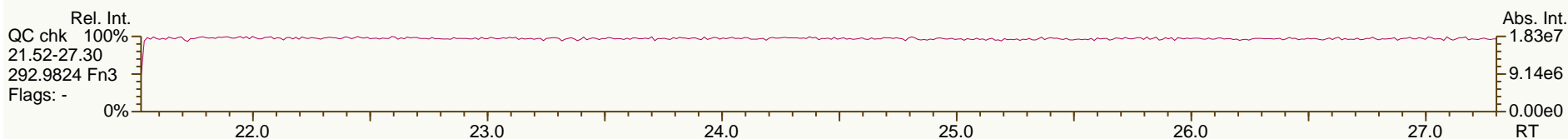
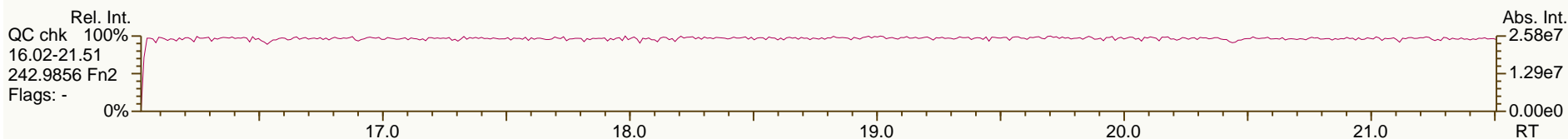
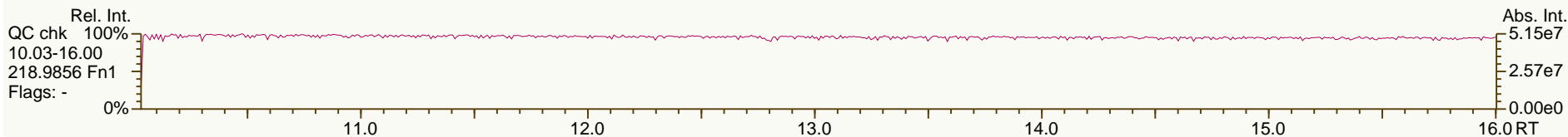




SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	1.44E+06	0.79 Y	1.15	1.11	-3.6%	
PCB-81 344'5'-TeCB	32.64	1.43E+06	0.81 Y	1.12	1.13	0.8%	
PCB-105 233'44'-PeCB	36.12	1.07E+06	0.63 Y	1.11	1.02	-7.9%	
PCB-114 2344'5'-PeCB	35.58	1.23E+06	0.64 Y	1.20	1.16	-3.3%	
PCB-118 23'44'5'-PeCB	35.11	1.13E+06	0.62 Y	1.19	1.13	-5.3%	
PCB-123 23'44'5'-PeCB	34.82	1.24E+06	0.61 Y	1.21	1.20	-1.2%	
PCB-126 33'44'5'-PeCB	38.73	9.39E+05	0.63 Y	1.11	1.07	-3.3%	
PCB-156/157 ...-HxCB	41.29	1.93E+06	1.26 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	1.07E+06	1.25 Y	1.16	1.13	-2.8%	
PCB-169 33'44'55'-HxCB	44.01	9.43E+05	1.29 Y	1.12	1.07	-4.8%	
PCB-189 233'44'55'-HpCB	46.14	8.81E+05	1.07 Y	1.07	1.00	-6.6%	
PCB-209 DeCB	51.26	6.80E+05	1.22 Y	1.11	1.10	-1.1%	
ES PCB-1	12.05	2.45E+08	3.30 Y	1.19	1.22	2.1%	
ES PCB-3	14.37	2.19E+08	3.33 Y	1.09	1.09	0.4%	
ES PCB-4	14.63	1.05E+08	1.62 Y	0.52	0.52	-0.1%	
ES PCB-15	20.39	2.08E+08	1.56 Y	1.04	1.04	-0.5%	
ES PCB-19	17.75	1.01E+08	1.09 Y	0.51	0.50	-0.8%	
ES PCB-37	26.75	1.55E+08	1.10 Y	1.66	1.64	-1.1%	
ES PCB-54	20.68	8.14E+07	0.81 Y	0.86	0.86	0.2%	
ES PCB-77	33.10	1.30E+08	0.82 Y	1.38	1.37	-0.7%	
ES PCB-81	32.63	1.27E+08	0.82 Y	1.37	1.35	-1.5%	
ES PCB-104	25.69	6.93E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.09	1.04E+08	1.61 Y	1.20	1.21	0.7%	
ES PCB-114	35.55	1.06E+08	1.64 Y	1.22	1.22	0.5%	
ES PCB-118	35.09	1.01E+08	1.61 Y	1.16	1.17	0.8%	
ES PCB-123	34.80	1.03E+08	1.61 Y	1.19	1.20	0.9%	
ES PCB-126	38.71	8.78E+07	1.58 Y	1.03	1.02	-0.9%	
ES PCB-153	36.68	6.38E+07	1.31 Y	1.11	1.11	-0.4%	
ES PCB-155	30.66	9.19E+07	1.28 Y	1.59	1.60	0.6%	
ES PCB-156/157	41.27	1.81E+08	1.29 Y	1.60	1.57	-1.9%	
ES PCB-167	40.28	9.51E+07	1.28 Y	1.67	1.65	-1.0%	
ES PCB-169	43.99	8.81E+07	1.26 Y	1.56	1.53	-1.6%	
ES PCB-170	43.50	5.21E+07	1.09 Y	0.95	0.93	-1.8%	
ES PCB-180	42.43	6.14E+07	1.09 Y	1.14	1.10	-3.7%	
ES PCB-188	35.55	5.38E+07	1.11 Y	0.94	0.93	-0.5%	
ES PCB-189	46.12	8.78E+07	1.03 Y	1.58	1.57	-1.0%	
ES PCB-202	40.09	5.52E+07	0.93 Y	0.97	0.96	-1.1%	
ES PCB-205	48.29	6.89E+07	0.90 Y	1.24	1.23	-1.2%	
ES PCB-206	49.76	4.58E+07	0.81 Y	0.83	0.82	-1.4%	
ES PCB-208	45.73	6.49E+07	0.80 Y	1.17	1.16	-1.4%	
ES PCB-209	51.23	6.17E+07	1.20 Y	1.11	1.10	-0.7%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.73E+08	1.09 Y	1.11	1.12	0.7%	
SS PCB-111	33.12	1.05E+08	1.58 Y	1.03	1.02	-0.8%	
SS PCB-178	38.12	3.27E+07	1.10 Y	0.62	0.61	-1.9%	
CS PCB-28	23.18	1.73E+08	1.09 Y	1.85	1.84	-0.4%	
CS PCB-111	33.12	1.05E+08	1.58 Y	1.22	1.22	0.1%	
CS PCB-178	38.12	3.27E+07	1.10 Y	0.58	0.57	-2.4%	
JS PCB-9	16.63	2.01E+08	1.58 Y	-	-	-	
JS PCB-52	24.81	9.43E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	8.62E+07	1.61 Y	-	-	-	
JS PCB-138	37.74	5.75E+07	1.31 Y	-	-	-	
JS PCB-194	47.89	5.60E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-2 3-MoCB	14.20	2.22E+06	3.19 Y	1.03	1.01	-2.1%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-10 26'-DiCB	14.83	1.99E+06	1.53 Y	1.98	1.90	-4.3%	
PCB-9 25'-DiCB	16.65	1.98E+06	1.52 Y	0.95	0.95	0.8%	
PCB-7 24'-DiCB	16.82	2.15E+06	1.55 Y	1.05	1.03	-1.3%	
PCB-6 23'-DiCB	17.04	1.96E+06	1.59 Y	1.00	0.94	-5.2%	
PCB-5 23'-DiCB	17.35	1.92E+06	1.63 Y	1.00	0.92	-7.9%	
PCB-8 24'-DiCB	17.47	2.06E+06	1.64 Y	1.03	0.99	-4.3%	
PCB-14 35'-DiCB	19.04	2.37E+06	1.53 Y	1.18	1.14	-3.6%	
PCB-11 33'-DiCB	19.83	1.97E+06	1.60 Y	1.01	0.95	-6.2%	
PCB-13/12 34'/34'-DiCB	20.12	4.01E+06	1.64 Y	0.99	0.96	-2.7%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-30/18 246'/22'5'-TrCB	19.54	2.96E+06	1.02 Y	1.54	1.47	-4.3%	
PCB-17 22'4'-TrCB	19.95	1.29E+06	1.05 Y	1.31	1.28	-1.9%	
PCB-27 23'6'-TrCB	20.14	1.77E+06	1.07 Y	1.82	1.76	-3.4%	
PCB-24 236'-TrCB	20.28	1.71E+06	1.05 Y	1.72	1.69	-1.8%	
PCB-16 22'3'-TrCB	20.37	9.51E+05	1.08 Y	1.01	0.94	-6.2%	
PCB-32 24'6'-TrCB	20.85	1.93E+06	1.04 Y	1.92	1.91	-0.2%	
PCB-34 23'5'-TrCB	22.01	1.70E+06	1.01 Y	1.14	1.09	-3.6%	
PCB-23 235'-TrCB	22.16	1.69E+06	1.02 Y	1.16	1.09	-5.7%	
PCB-26/29 23'5'/245'-TrCB	22.45	3.54E+06	1.00 Y	1.17	1.14	-2.6%	
PCB-25 23'4'-TrCB	22.64	1.76E+06	0.93 Y	1.16	1.14	-1.8%	
PCB-31 24'5'-TrCB	22.93	1.79E+06	1.00 Y	1.23	1.16	-5.5%	
PCB-28/20 244'/233'-TrCB	23.21	3.35E+06	0.97 Y	1.13	1.08	-4.5%	
PCB-21/33 234'/23'4'-TrCB	23.39	3.53E+06	1.00 Y	1.17	1.14	-3.0%	
PCB-22 234'-TrCB	23.77	1.63E+06	0.98 Y	1.08	1.05	-2.5%	
PCB-36 33'5'-TrCB	25.16	1.74E+06	0.96 Y	1.17	1.12	-4.1%	
PCB-39 34'5'-TrCB	25.48	1.81E+06	0.98 Y	1.21	1.16	-3.9%	
PCB-38 345'-TrCB	26.02	1.68E+06	1.02 Y	1.10	1.08	-1.9%	
PCB-35 33'4'-TrCB	26.41	1.52E+06	0.97 Y	1.04	0.98	-5.4%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	2.16E+06	0.78 Y	0.88	0.85	-2.9%	
PCB-45 22'36'-TeCB	23.29	9.68E+05	0.81 Y	0.77	0.76	-0.6%	
PCB-51 22'46'-TeCB	23.37	1.04E+06	0.82 Y	0.86	0.82	-4.6%	
PCB-46 22'36'-TeCB	23.57	8.57E+05	0.74 Y	0.70	0.68	-3.4%	
PCB-52 22'55'-TeCB	24.83	1.06E+06	0.77 Y	0.84	0.83	-1.4%	
PCB-73 23'5'6'-TeCB	24.97	1.35E+06	0.75 Y	1.11	1.06	-4.6%	
PCB-43 22'35'-TeCB	25.06	8.63E+05	0.75 Y	0.71	0.68	-4.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	2.50E+06	0.75 Y	1.02	0.98	-3.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	1.01E+06	0.77 Y	0.84	0.79	-5.5%	
PCB-44/47/65 ...-TeCB	25.76	3.36E+06	0.79 Y	0.90	0.88	-2.5%	
PCB-59/62/75 ...-TeCB	26.04	4.29E+06	0.80 Y	1.17	1.13	-3.3%	
PCB-42 22'34'-TeCB	26.20	9.26E+05	0.75 Y	0.76	0.73	-4.4%	
PCB-41 22'34'-TeCB	26.54	8.37E+05	0.80 Y	0.69	0.66	-5.2%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	2.09E+06	0.82 Y	0.86	0.82	-4.1%	
PCB-64 234'6'-TeCB	26.83	1.50E+06	0.75 Y	1.22	1.18	-3.1%	
PCB-72 23'55'-TeCB	27.55	1.50E+06	0.80 Y	1.21	1.18	-2.1%	
PCB-68 23'45'-TeCB	27.81	1.57E+06	0.77 Y	1.28	1.24	-3.0%	
PCB-57 233'5'-TeCB	28.18	1.41E+06	0.85 Y	1.16	1.11	-4.3%	
PCB-58 233'5'-TeCB	28.38	1.44E+06	0.79 Y	1.18	1.13	-4.0%	
PCB-67 23'45'-TeCB	28.54	1.59E+06	0.76 Y	1.26	1.25	-0.7%	
PCB-63 234'5'-TeCB	28.77	1.60E+06	0.79 Y	1.30	1.26	-3.2%	
PCB-61/70/74/76 ...-TeCB	29.06	5.90E+06	0.78 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.34	1.35E+06	0.80 Y	1.10	1.06	-3.5%	
PCB-55 233'4'-TeCB	29.49	1.40E+06	0.79 Y	1.12	1.10	-1.8%	
PCB-56 233'4'-TeCB	29.93	1.33E+06	0.78 Y	1.11	1.05	-5.4%	
PCB-60 2344'-TeCB	30.12	1.42E+06	0.78 Y	1.14	1.12	-1.4%	
PCB-80 33'55'-TeCB	30.45	1.64E+06	0.76 Y	1.31	1.29	-1.8%	
PCB-79 33'45'-TeCB	31.78	1.69E+06	0.80 Y	1.31	1.33	1.6%	
PCB-78 33'45'-TeCB	32.27	1.26E+06	0.77 Y	1.06	0.99	-6.5%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-96 22'366'-PeCB	26.03	8.58E+05	0.71 Y	1.23	1.24	0.8%	
PCB-103 22'45'6'-PeCB	27.72	9.36E+05	0.64 Y	0.93	0.91	-2.5%	
PCB-94 22'356'-PeCB	27.91	7.83E+05	0.65 Y	0.80	0.76	-5.2%	
PCB-95 22'35'6'-PeCB	28.30	8.29E+05	0.59 Y	0.87	0.80	-7.3%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	1.71E+06	0.59 Y	0.86	0.83	-4.0%	
PCB-102 22'456'-PeCB	28.63	9.57E+05	0.62 Y	0.97	0.93	-4.2%	
PCB-98 22'34'6'-PeCB	28.69	7.04E+05	0.64 Y	0.76	0.68	-10.0%	
PCB-88 22'346'-PeCB	28.99	7.38E+05	0.59 Y	0.80	0.72	-10.4%	
PCB-91 22'34'6'-PeCB	29.06	9.82E+05	0.56 Y	0.94	0.95	0.8%	
PCB-84 22'33'6'-PeCB	29.25	6.84E+05	0.58 Y	0.72	0.66	-7.4%	
PCB-89 22'346'-PeCB	29.67	7.66E+05	0.63 Y	0.76	0.74	-2.8%	
PCB-121 23'45'6'-PeCB	30.02	1.19E+06	0.67 Y	1.20	1.15	-3.9%	
PCB-92 22'355'-PeCB	30.33	8.33E+05	0.61 Y	0.82	0.81	-1.6%	
PCB-113/90/101 ...-PeCB	30.82	2.96E+06	0.62 Y	0.99	0.96	-2.9%	
PCB-83 22'33'5'-PeCB	31.26	7.27E+05	0.67 Y	0.71	0.70	-1.5%	
PCB-99 22'44'5'-PeCB	31.36	9.10E+05	0.63 Y	0.92	0.88	-4.2%	
PCB-112 233'56'-PeCB	31.46	1.16E+06	0.65 Y	1.17	1.12	-3.8%	
PCB-108/119/86/97/125...-PeCB	31.80	5.82E+06	0.61 Y	0.98	0.94	-4.0%	
PCB-117 234'56'-PeCB	32.34	1.19E+06	0.62 Y	1.14	1.15	1.3%	
PCB-116/85 23456/22'344'-PeCB	32.43	1.79E+06	0.62 Y	0.94	0.87	-7.6%	
PCB-110 233'4'6'-PeCB	32.54	1.10E+06	0.62 Y	1.12	1.07	-4.4%	

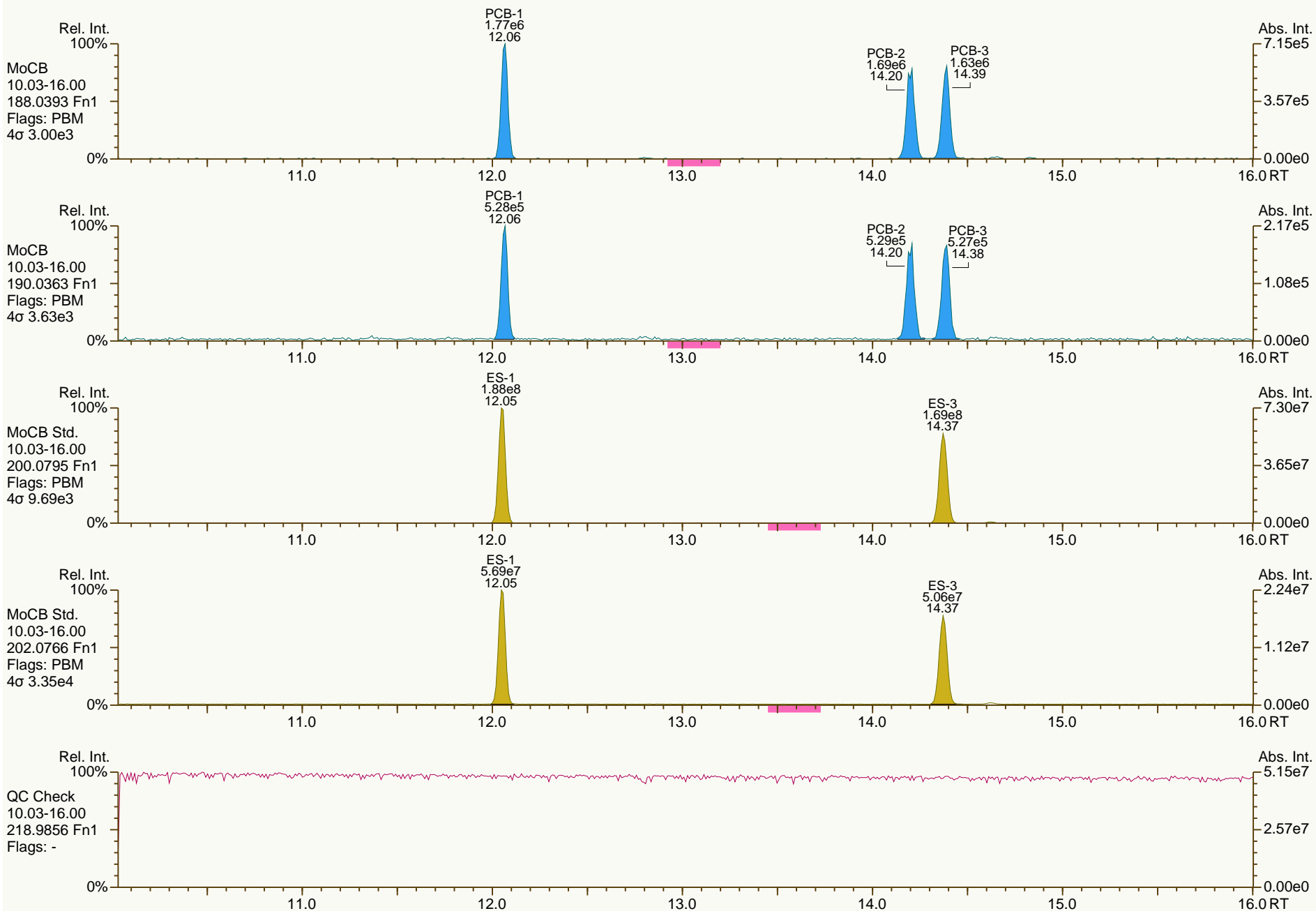
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	1.15E+06	0.66 Y	1.16	1.11	-4.2%	
PCB-82 22'33'4-PeCB	32.83	6.91E+05	0.62 Y	0.70	0.67	-4.0%	
PCB-111 233'55'-PeCB	33.15	1.20E+06	0.64 Y	1.22	1.17	-4.5%	
PCB-120 23'455'-PeCB	33.54	1.18E+06	0.65 Y	1.21	1.14	-5.6%	
PCB-107/124 ...-PeCB	34.51	2.12E+06	0.63 Y	1.10	1.03	-6.4%	
PCB-109 233'46-PeCB	34.72	1.09E+06	0.61 Y	1.25	1.05	-16.1%	
PCB-106 233'45-PeCB	34.94	1.12E+06	0.63 Y	1.11	1.08	-2.0%	
PCB-122 233'4'5'-PeCB	35.40	1.01E+06	0.63 Y	0.99	0.96	-3.7%	
PCB-127 33'455'-PeCB	37.35	1.08E+06	0.63 Y	1.10	1.04	-5.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-152 22'3566'-HxCB	30.84	1.03E+06	1.37 Y	1.17	1.12	-4.2%	
PCB-150 22'34'66'-HxCB	30.98	1.02E+06	1.19 Y	1.18	1.10	-6.1%	
PCB-136 22'33'66'-HxCB	31.29	8.99E+05	1.33 Y	1.07	0.98	-8.3%	
PCB-145 22'3466'-HxCB	31.56	1.00E+06	1.26 Y	1.11	1.09	-2.4%	
PCB-148 22'34'56'-HxCB	32.83	7.25E+05	1.41 Y	1.18	1.14	-3.9%	
PCB-151/135 ...-HxCB	33.36	1.44E+06	1.27 Y	1.14	1.13	-1.1%	
PCB-154 22'44'56'-HxCB	33.57	8.24E+05	1.31 Y	1.34	1.29	-3.8%	
PCB-144 22'345'6-HxCB	33.83	7.12E+05	1.24 Y	1.18	1.12	-5.7%	
PCB-147/149 ...-HxCB	34.13	1.47E+06	1.29 Y	1.18	1.15	-2.3%	
PCB-134 22'33'56-HxCB	34.31	5.72E+05	1.37 Y	0.92	0.90	-3.0%	
PCB-143 22'3456'-HxCB	34.39	7.05E+05	1.29 Y	1.13	1.10	-2.2%	
PCB-139/140 ...-HxCB	34.66	1.49E+06	1.23 Y	1.21	1.16	-3.5%	
PCB-131 22'33'46-HxCB	34.83	6.51E+05	1.25 Y	1.03	1.02	-0.6%	
PCB-142 22'3456-HxCB	34.98	5.89E+05	1.28 Y	0.99	0.92	-6.8%	
PCB-132 22'33'46'-HxCB	35.21	6.45E+05	1.26 Y	1.03	1.01	-2.0%	
PCB-133 22'33'55'-HxCB	35.61	7.07E+05	1.26 Y	1.13	1.11	-2.1%	
PCB-165 233'55'6-HxCB	35.95	8.89E+05	1.25 Y	1.41	1.39	-1.1%	
PCB-146 22'34'55'-HxCB	36.17	7.40E+05	1.25 Y	1.20	1.16	-3.5%	
PCB-161 233'45'6-HxCB	36.29	9.19E+05	1.24 Y	1.52	1.44	-5.3%	
PCB-153/168 ...-HxCB	36.72	1.81E+06	1.24 Y	1.46	1.42	-2.7%	
PCB-141 22'3455'-HxCB	36.86	6.67E+05	1.26 Y	1.09	1.05	-4.0%	
PCB-130 22'33'45'-HxCB	37.21	6.08E+05	1.33 Y	0.97	0.95	-2.0%	
PCB-137 22'344'5-HxCB	37.41	7.27E+05	1.30 Y	1.16	1.14	-2.1%	
PCB-164 233'4'5'6-HxCB	37.49	9.46E+05	1.33 Y	1.50	1.48	-1.0%	
PCB-163/138/129 ...-HxCB	37.78	2.21E+06	1.21 Y	1.19	1.15	-3.2%	
PCB-160 233'456-HxCB	37.92	9.44E+05	1.29 Y	1.52	1.48	-2.3%	
PCB-158 233'44'6-HxCB	38.10	1.05E+06	1.33 Y	1.66	1.64	-1.2%	
PCB-128/166 ...-HxCB	38.84	1.64E+06	1.18 Y	0.90	0.86	-4.3%	
PCB-159 233'455'-HxCB	39.65	1.05E+06	1.27 Y	1.11	1.11	-0.8%	
PCB-162 233'4'55'-HxCB	39.89	9.62E+05	1.13 Y	1.07	1.01	-5.6%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-179 22'33'566'-HpCB	35.85	6.25E+05	1.09 Y	1.16	1.16	0.1%	
PCB-184 22'344'66'-HpCB	36.32	5.87E+05	1.02 Y	1.13	1.09	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.61	6.55E+05	1.14 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.01	5.96E+05	1.00 Y	1.13	1.11	-1.5%	
PCB-178 22'33'55'6'-HpCB	38.14	4.31E+05	1.08 Y	0.84	0.80	-4.9%	
PCB-175 22'33'45'6'-HpCB	38.69	6.43E+05	1.04 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.91	6.87E+05	1.08 Y	1.14	1.12	-1.7%	
PCB-182 22'344'56'-HpCB	39.09	6.98E+05	1.03 Y	1.18	1.14	-3.2%	
PCB-183 22'344'5'6'-HpCB	39.44	7.24E+05	1.15 Y	1.20	1.18	-2.1%	
PCB-185 22'3455'6'-HpCB	39.52	6.34E+05	1.02 Y	1.06	1.03	-2.6%	
PCB-174 22'33'456'-HpCB	39.63	6.37E+05	1.07 Y	0.99	1.04	4.9%	
PCB-177 22'33'45'6'-HpCB	40.01	5.78E+05	1.13 Y	0.95	0.94	-1.0%	
PCB-181 22'344'56'-HpCB	40.36	6.58E+05	1.09 Y	1.09	1.07	-1.4%	
PCB-171/173 ...-HpCB	40.54	1.11E+06	1.08 Y	0.95	0.90	-4.7%	
PCB-172 22'33'455'-HpCB	41.89	5.95E+05	1.09 Y	0.99	0.97	-2.0%	
PCB-192 233'455'6'-HpCB	42.14	7.80E+05	1.06 Y	1.29	1.27	-1.3%	
PCB-180/193 ...-HpCB	42.42	1.50E+06	0.95 Y	1.26	1.22	-3.0%	
PCB-191 233'44'5'6'-HpCB	42.75	8.57E+05	1.12 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.52	5.51E+05	0.98 Y	1.14	1.06	-6.8%	
PCB-190 233'44'56'-HpCB	43.98	8.22E+05	1.07 Y	1.66	1.58	-5.0%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-201 22'33'45'66'-OcCB	40.90	6.75E+05	0.92 Y	1.22	1.22	0.1%	
PCB-204 22'344'566'-OcCB	41.48	6.21E+05	0.94 Y	1.12	1.13	0.8%	
PCB-197 22'33'44'66'-OcCB	41.67	6.41E+05	0.90 Y	1.19	1.16	-2.4%	
PCB-200 22'33'4566'-OcCB	41.76	5.73E+05	0.90 Y	1.11	1.04	-6.2%	
PCB-198/199 ...-OcCB	44.09	8.75E+05	0.91 Y	0.81	0.79	-2.0%	
PCB-196 22'33'44'56'-OcCB	44.67	4.40E+05	0.99 Y	0.83	0.80	-4.4%	
PCB-203 22'344'55'6'-OcCB	44.84	4.68E+05	0.92 Y	0.87	0.85	-3.0%	
PCB-195 22'33'44'56'-OcCB	45.96	5.10E+05	0.94 Y	0.77	0.74	-3.4%	
PCB-194 22'33'44'55'-OcCB	47.91	5.61E+05	0.90 Y	0.84	0.82	-3.3%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-207 22'33'44'566'-NoCB	46.54	7.50E+05	0.80 Y	1.19	1.16	-2.9%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
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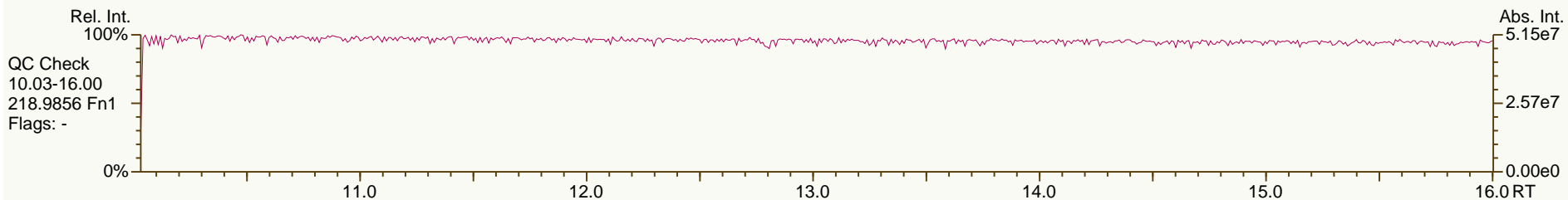
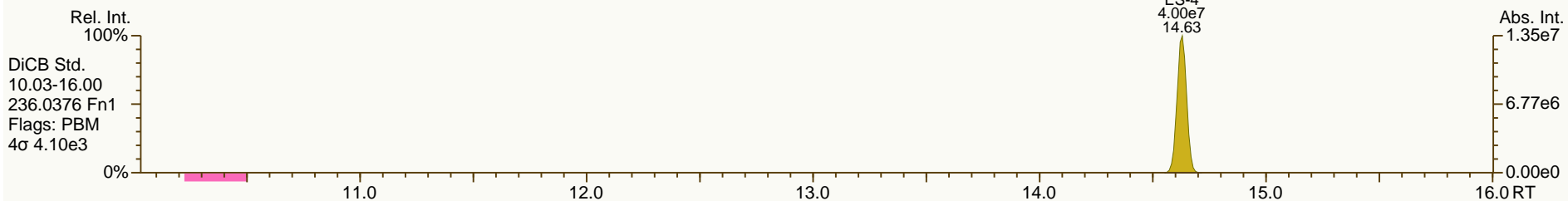
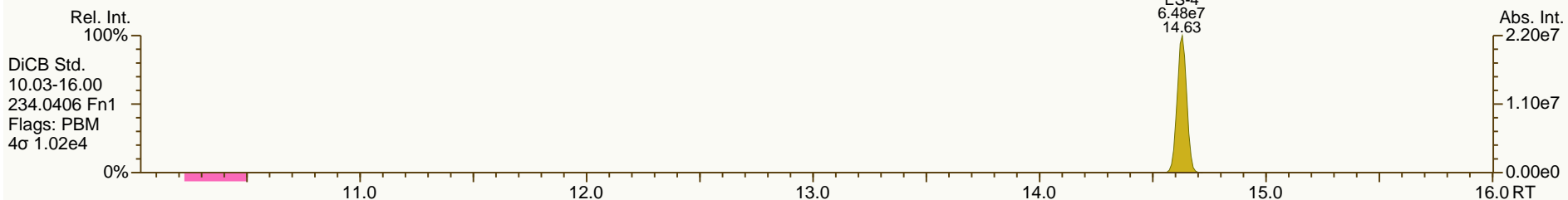
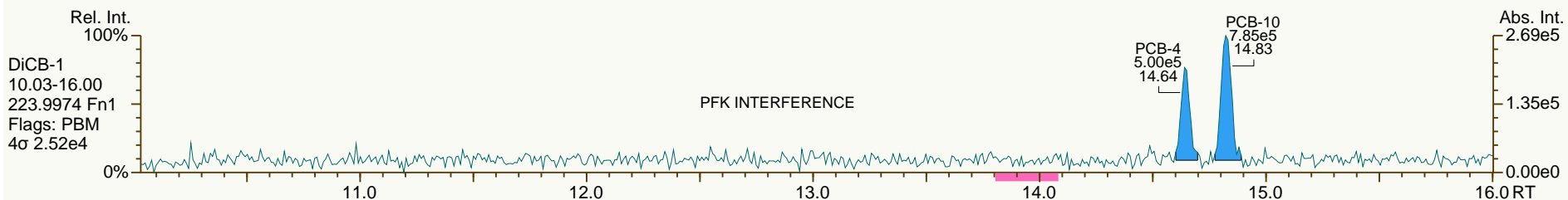
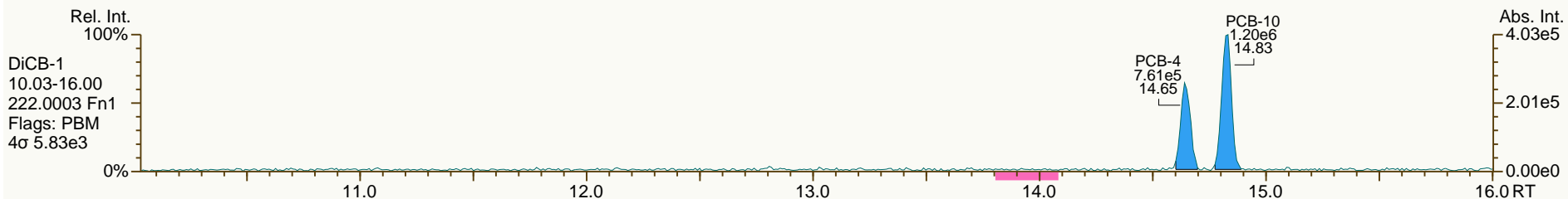




SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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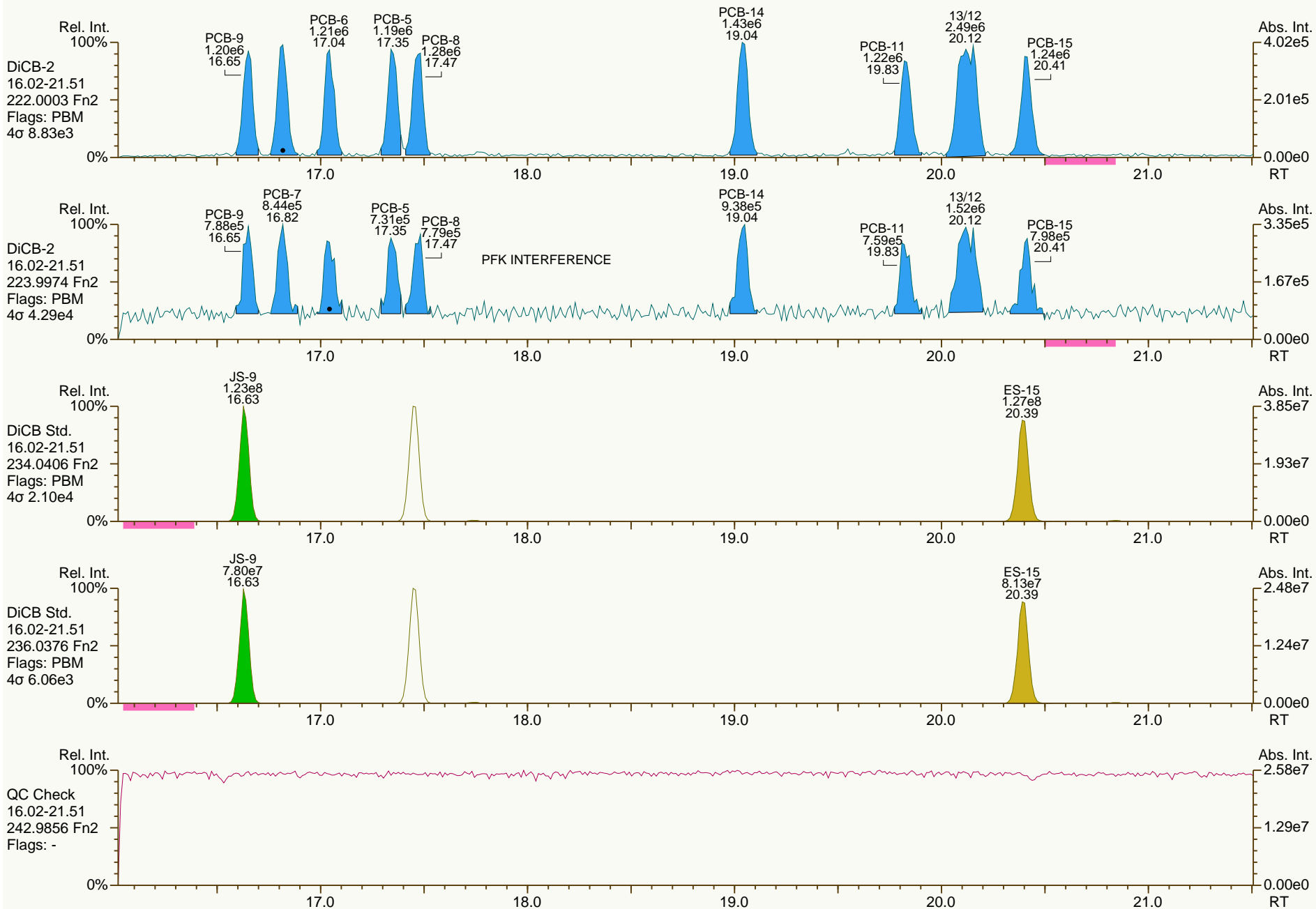
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 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

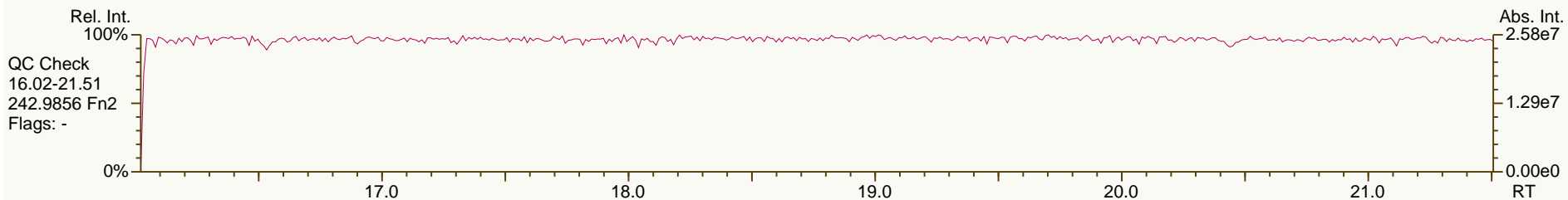
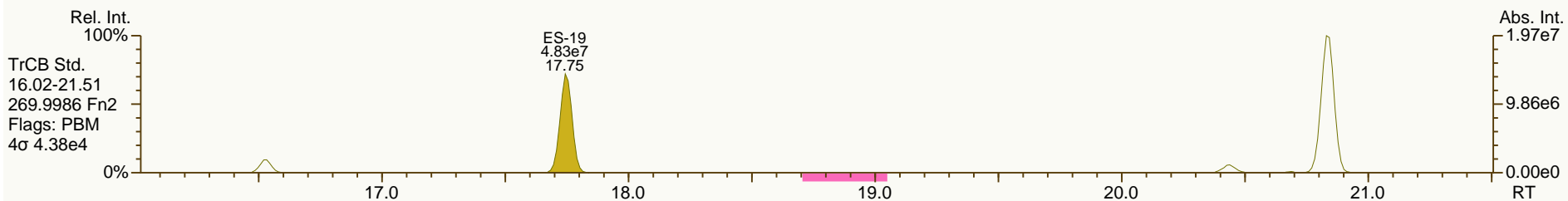
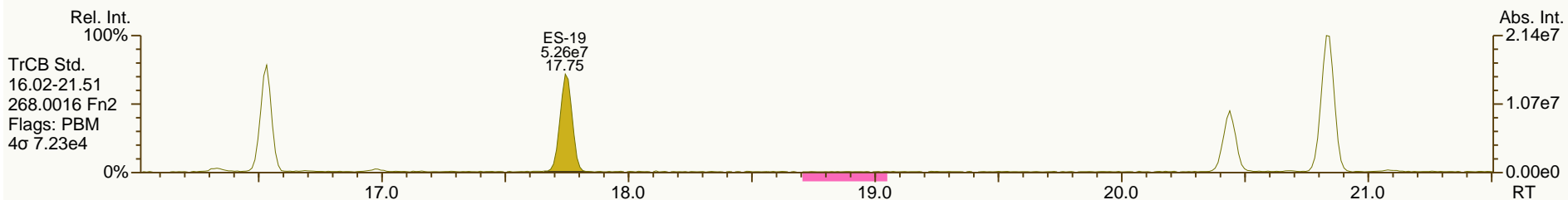
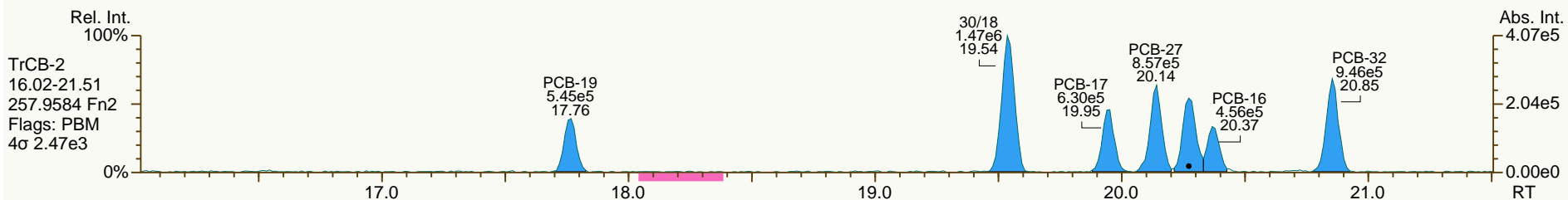
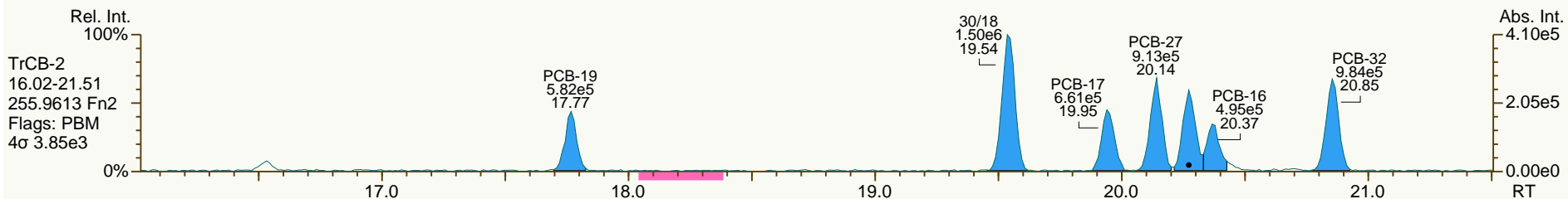
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

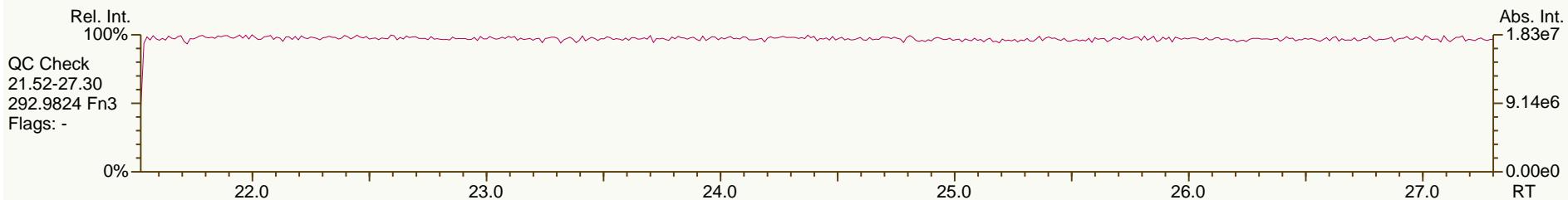
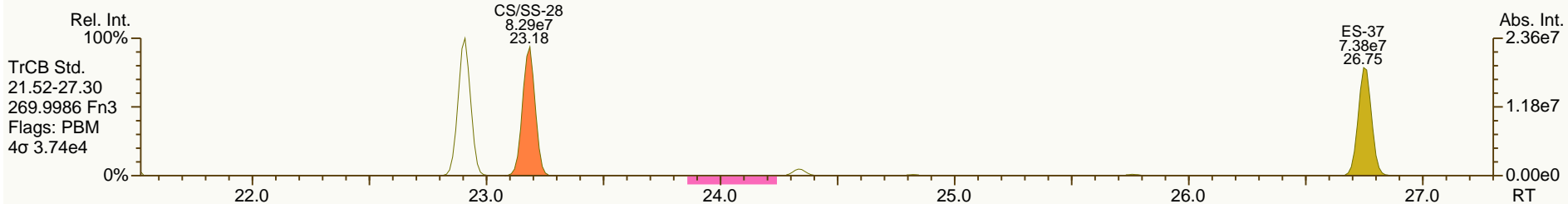
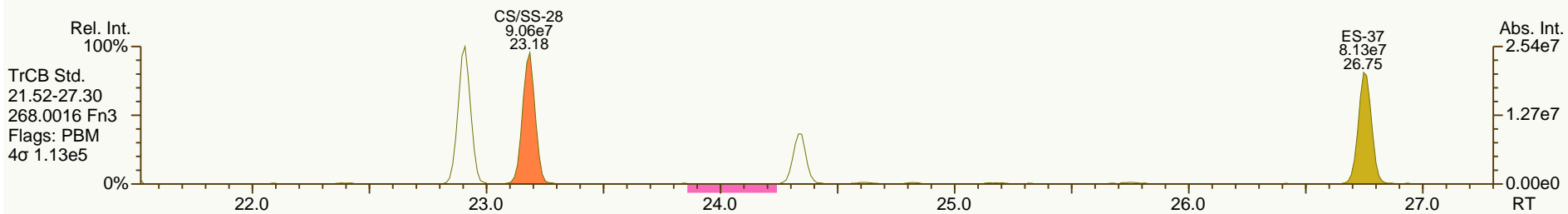
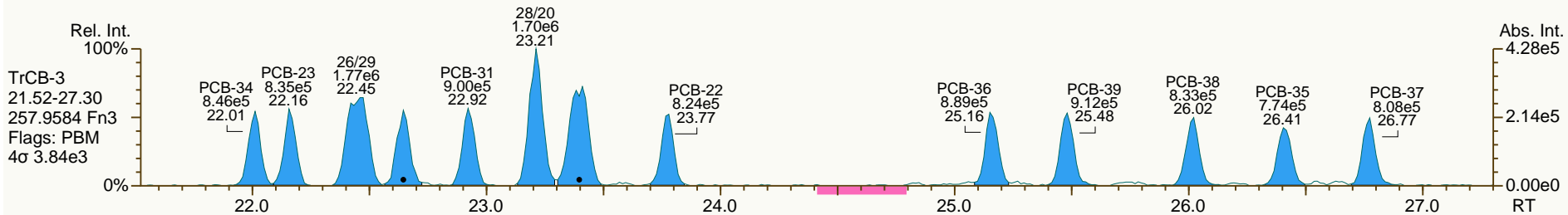
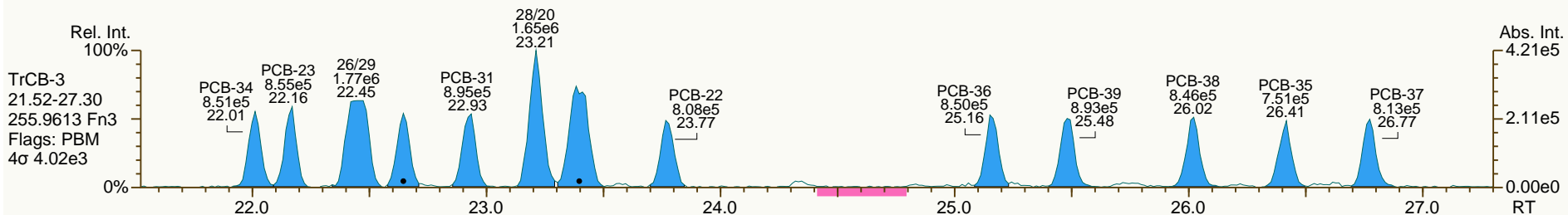
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

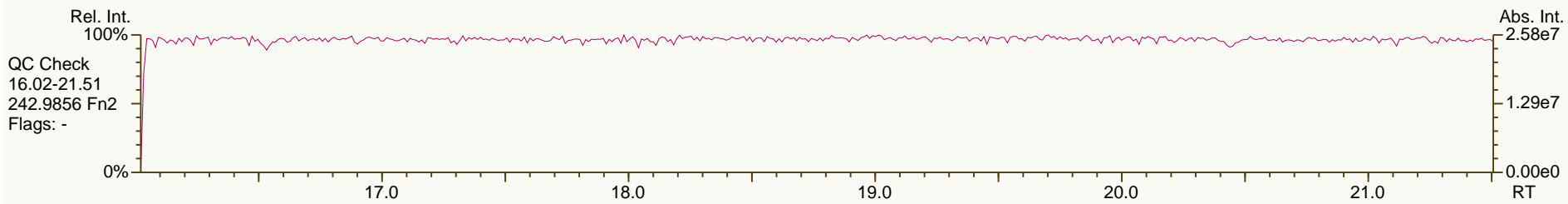
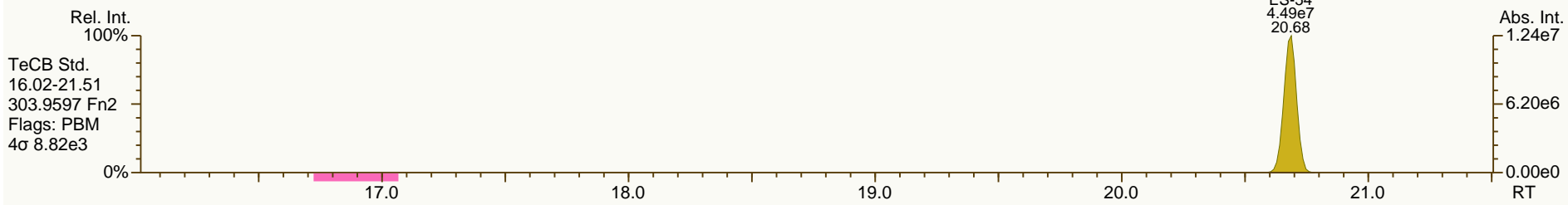
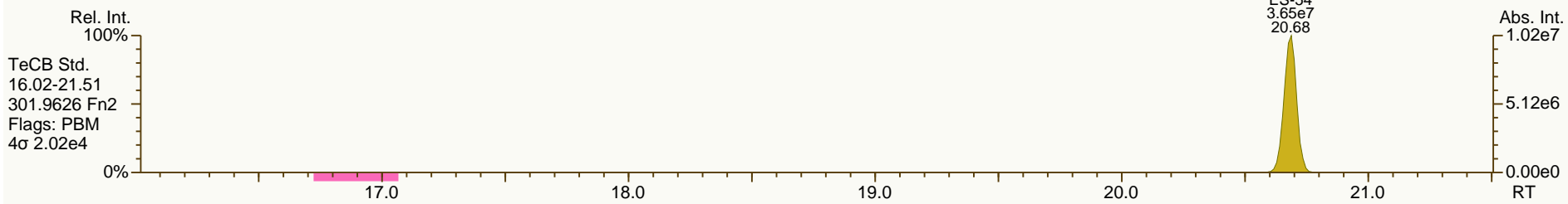
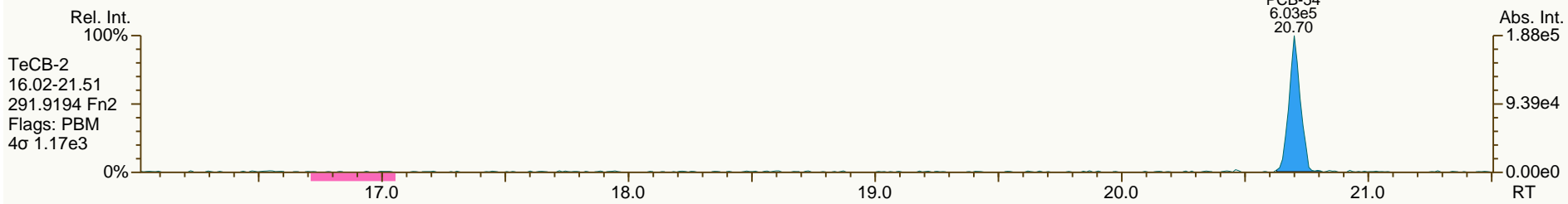
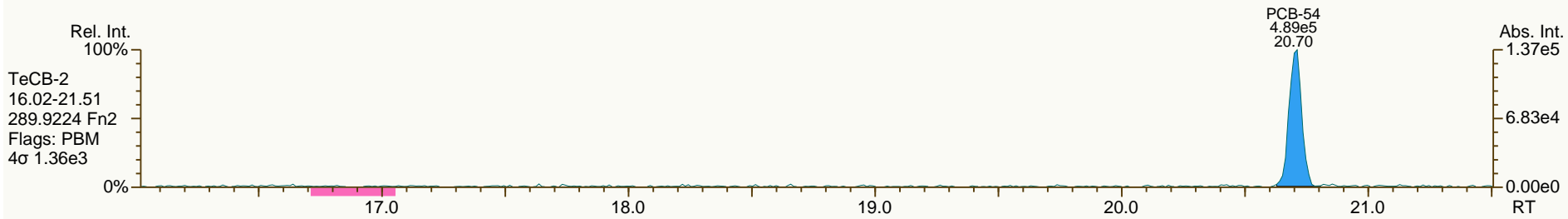
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

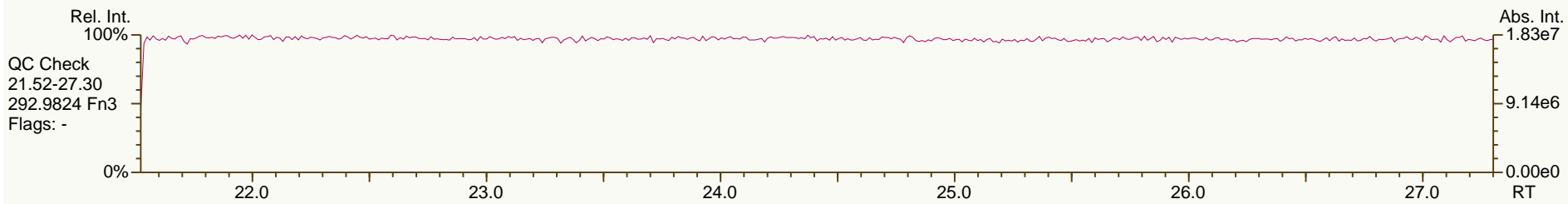
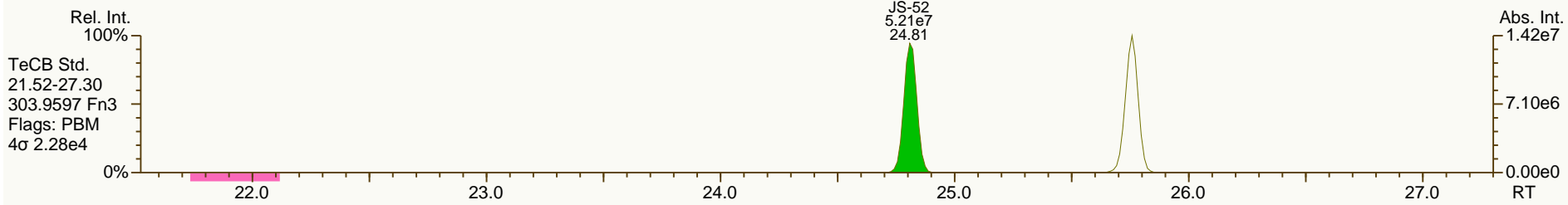
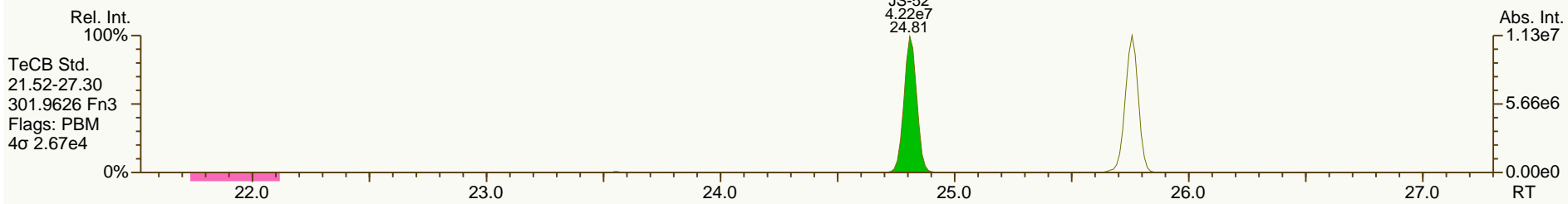
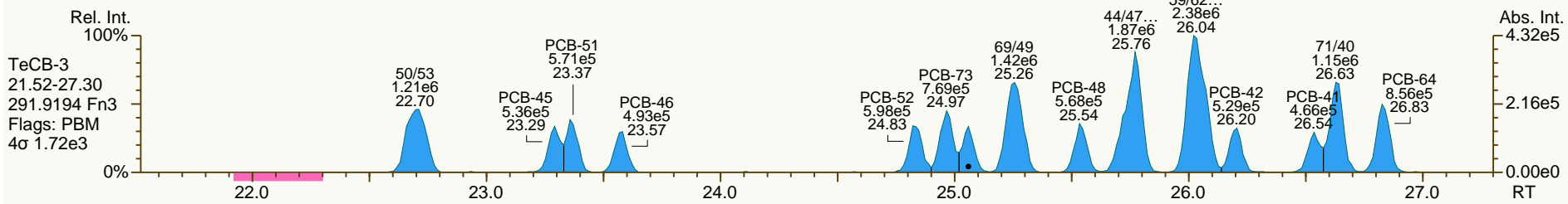
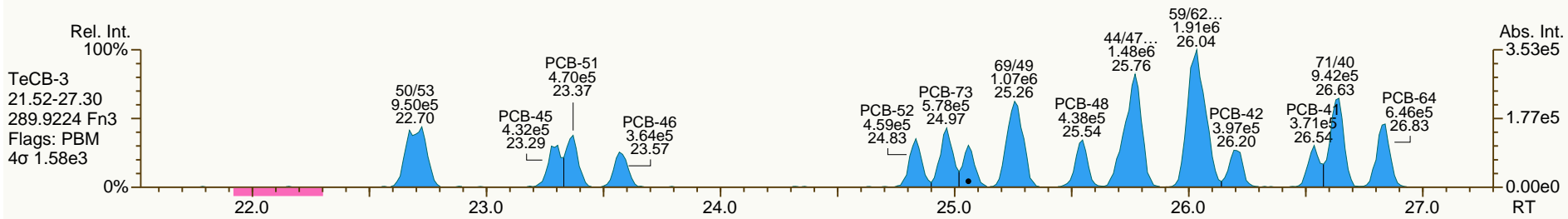
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

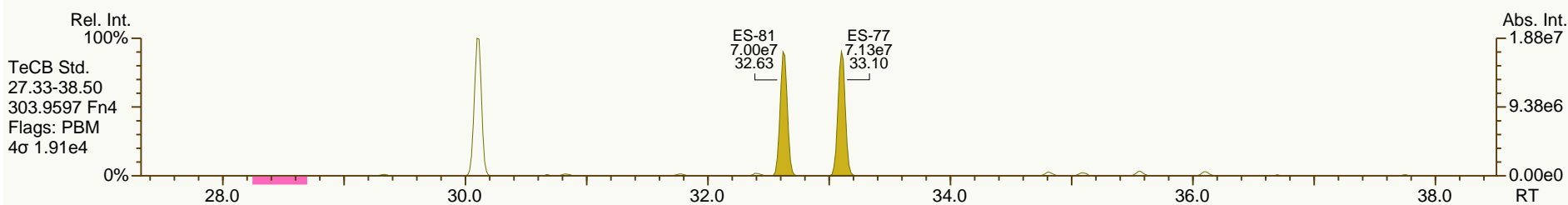
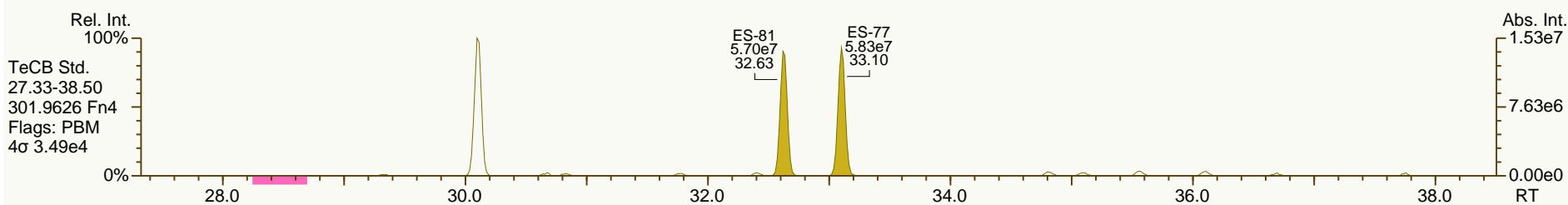
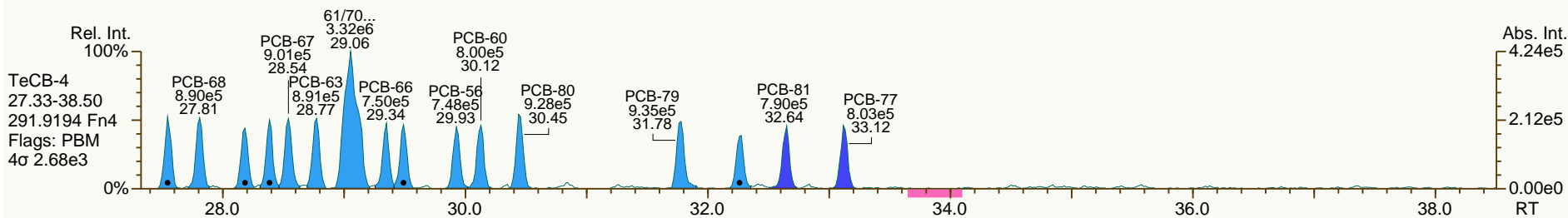
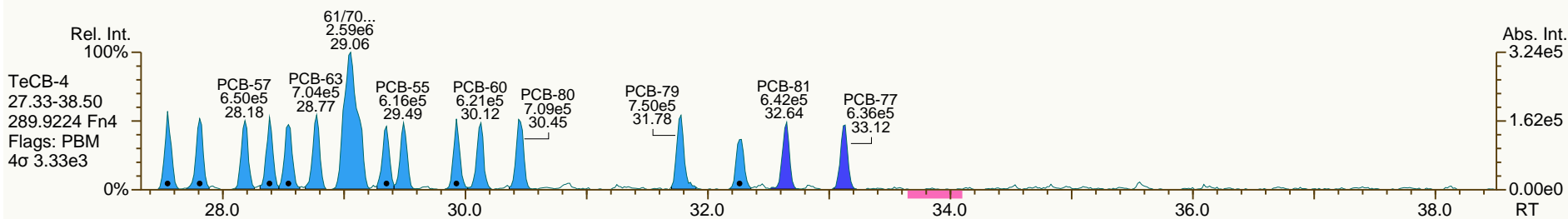
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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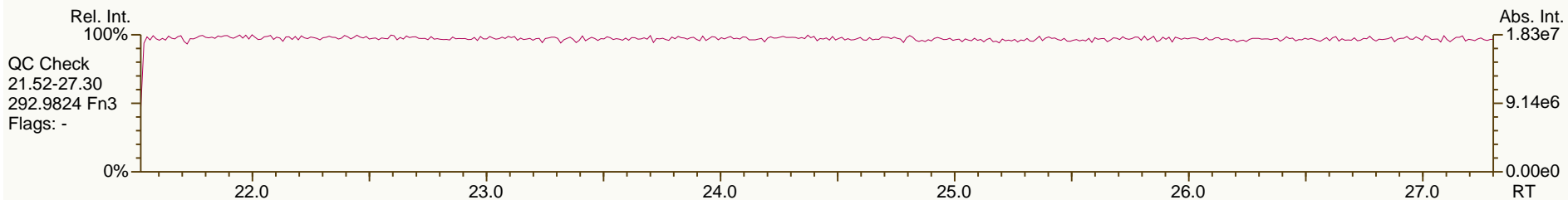
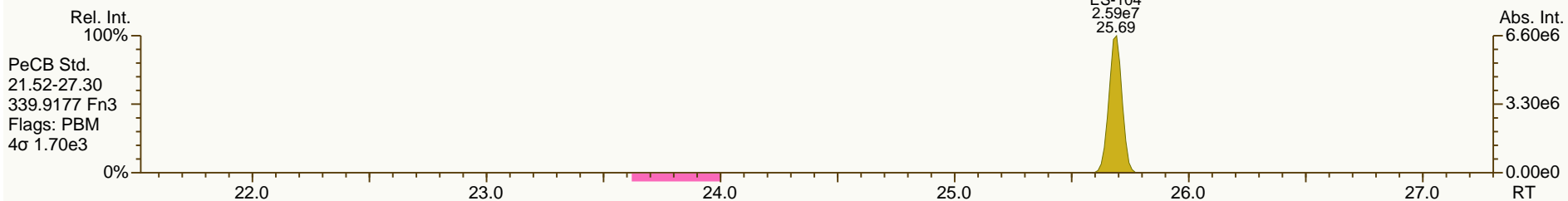
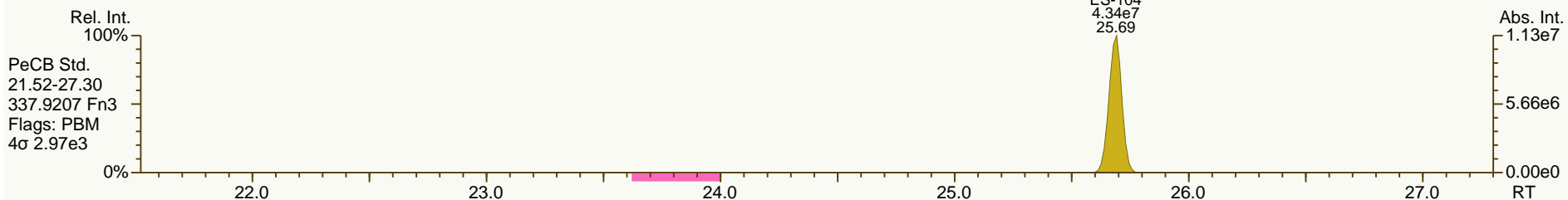
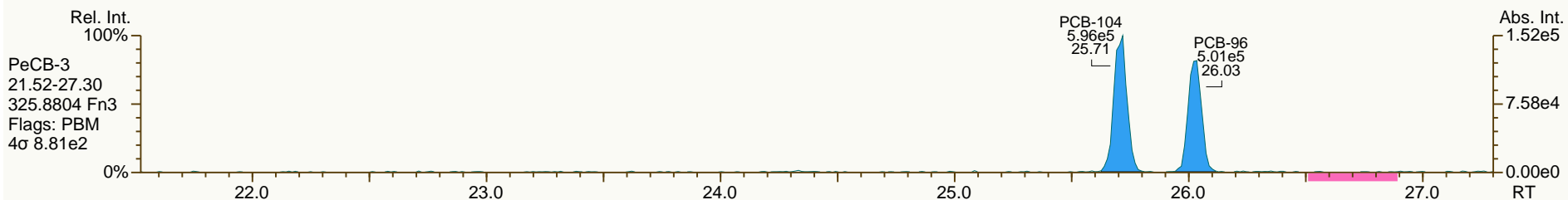
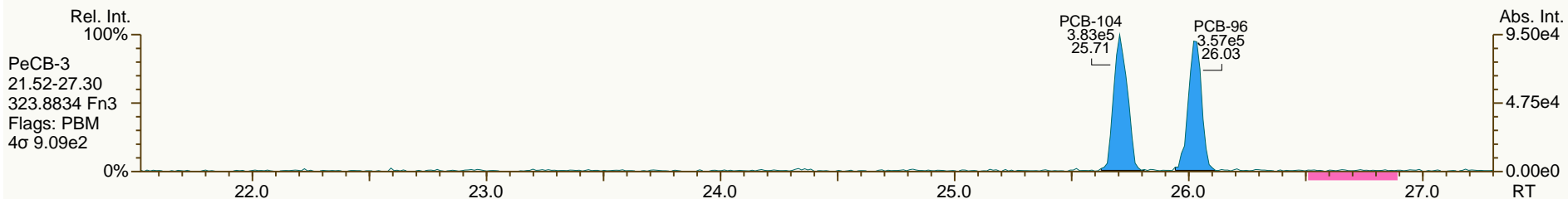
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SGS-AP ID: CS1\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-5  
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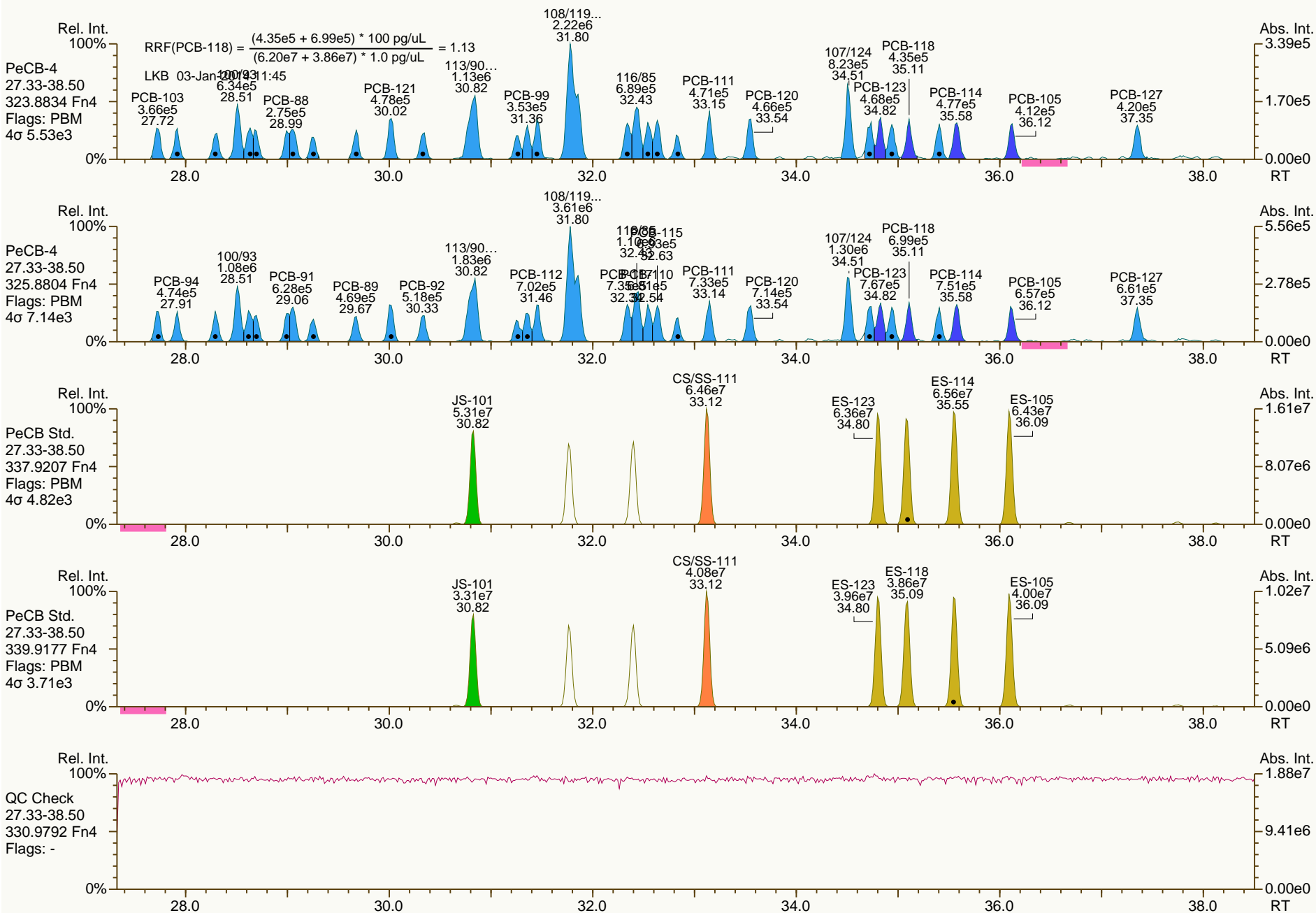




SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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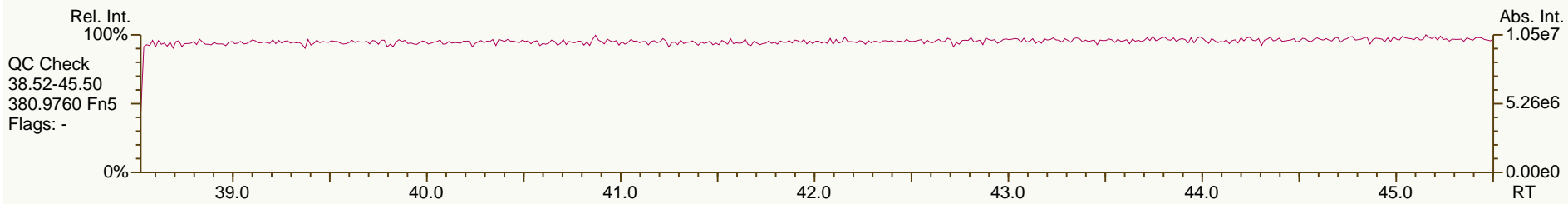
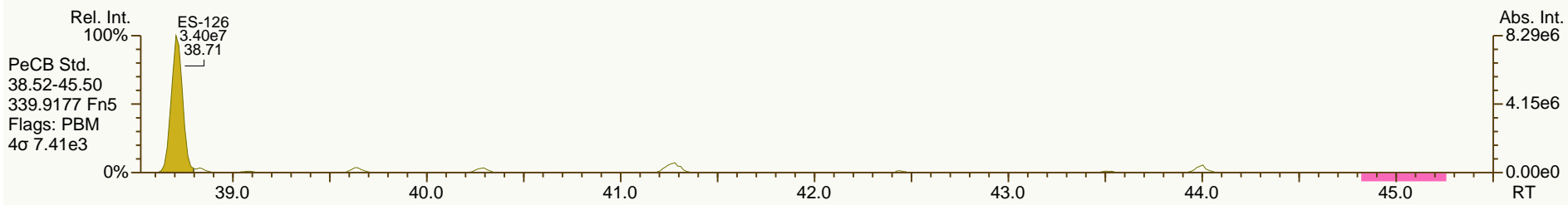
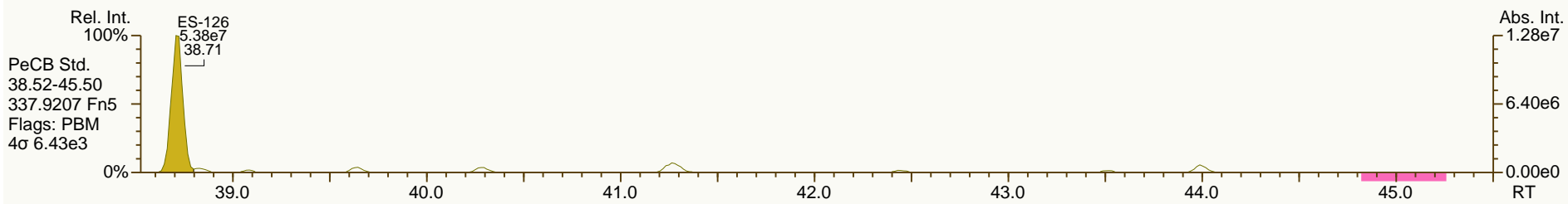
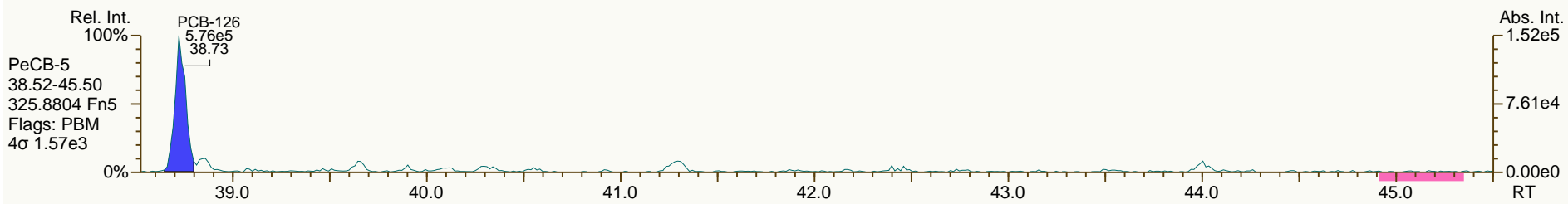
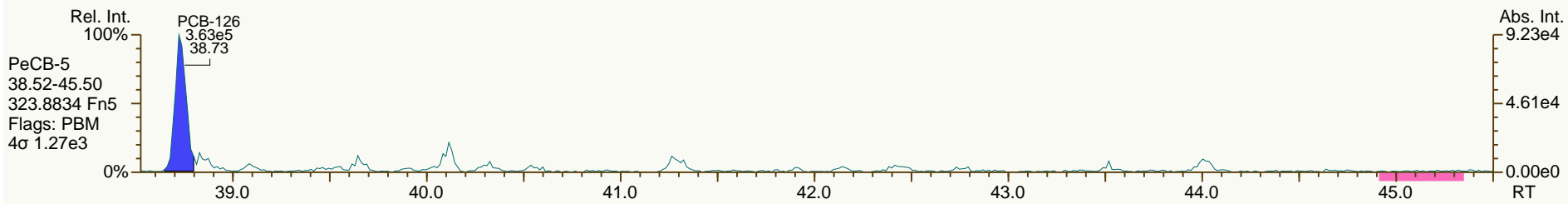
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SGS-AP ID: CS1\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-5  
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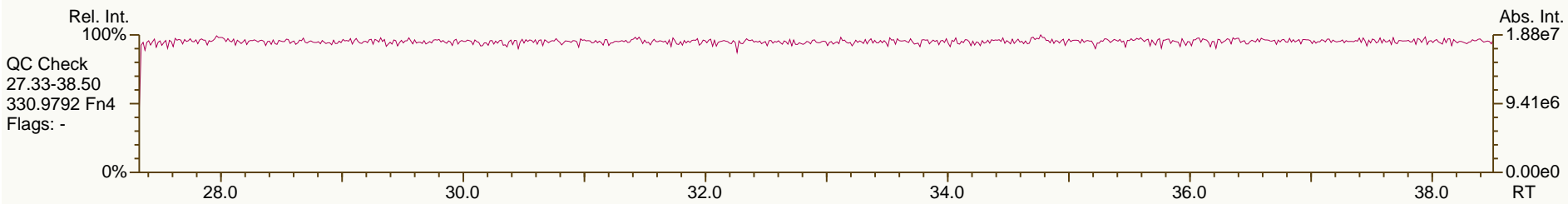
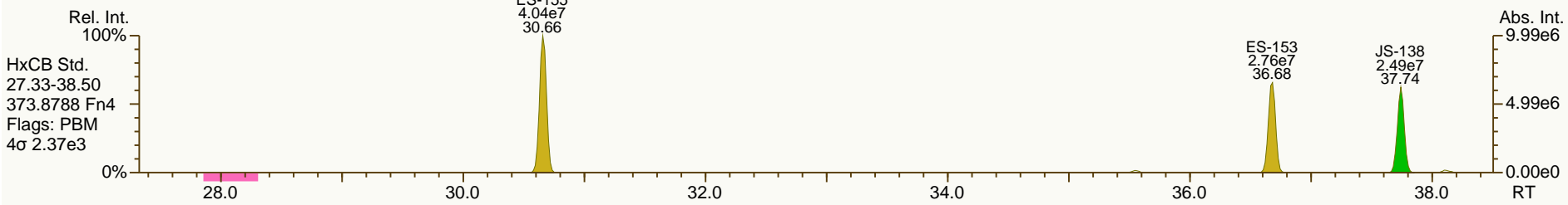
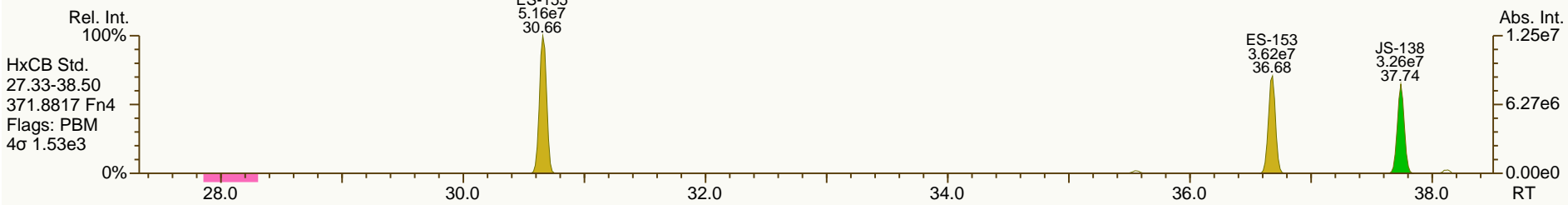
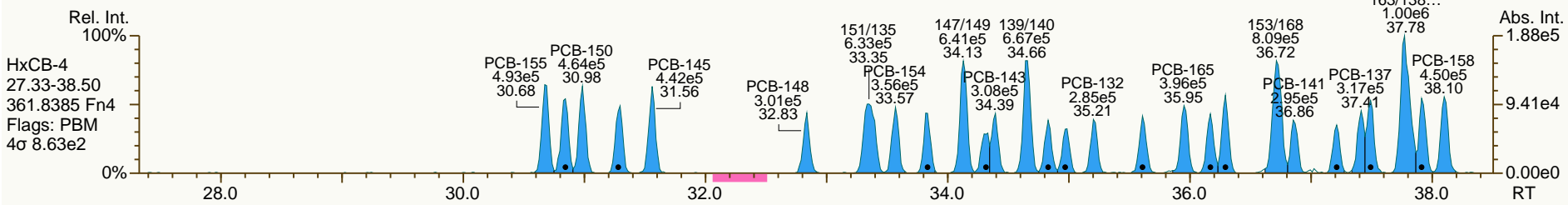
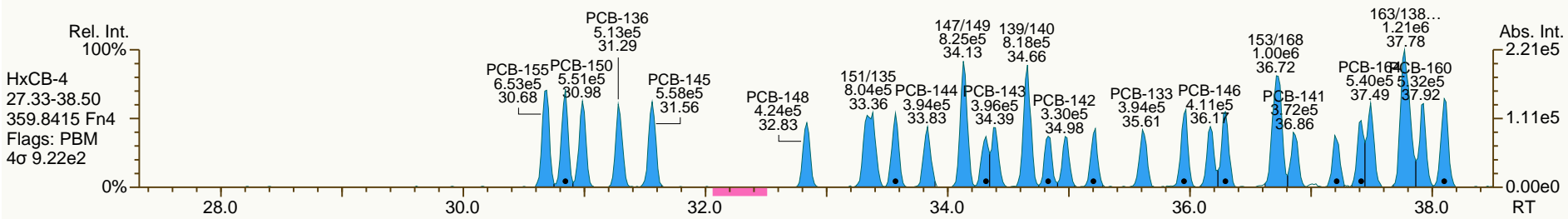
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

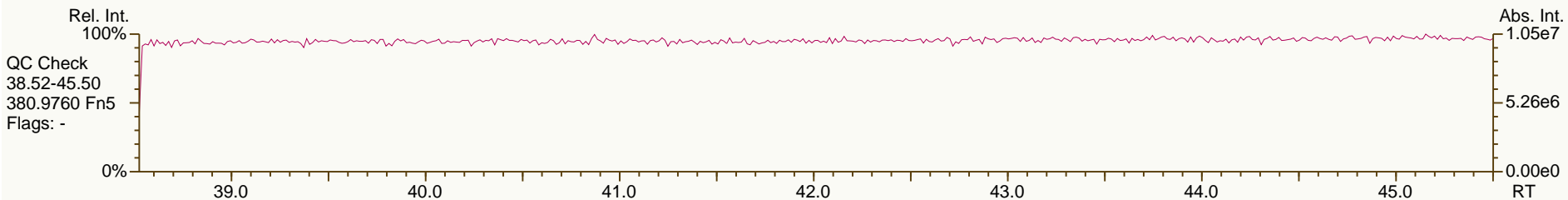
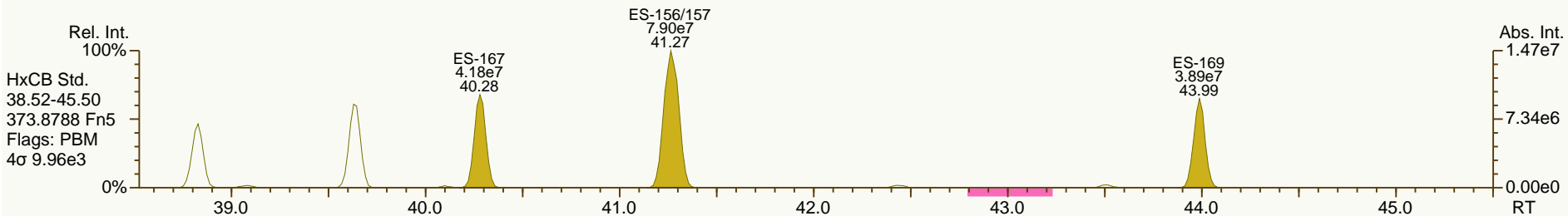
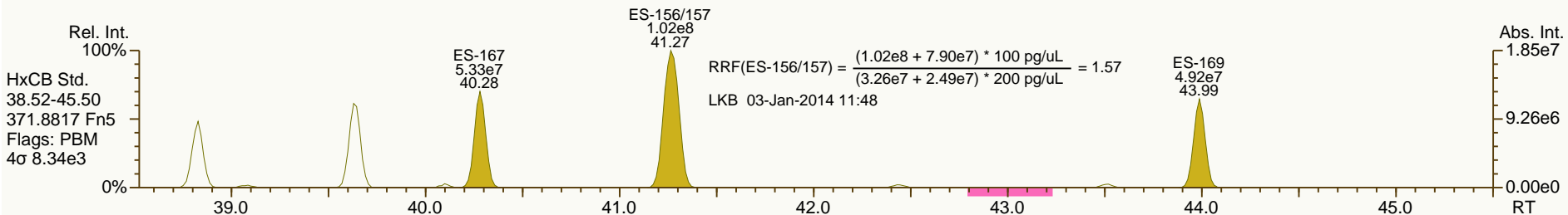
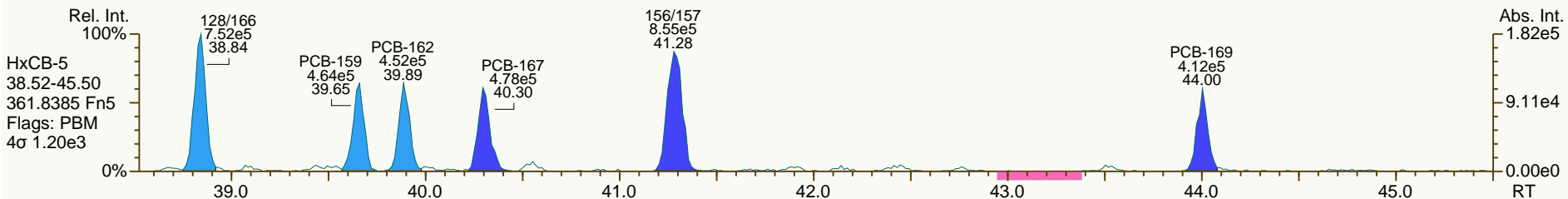
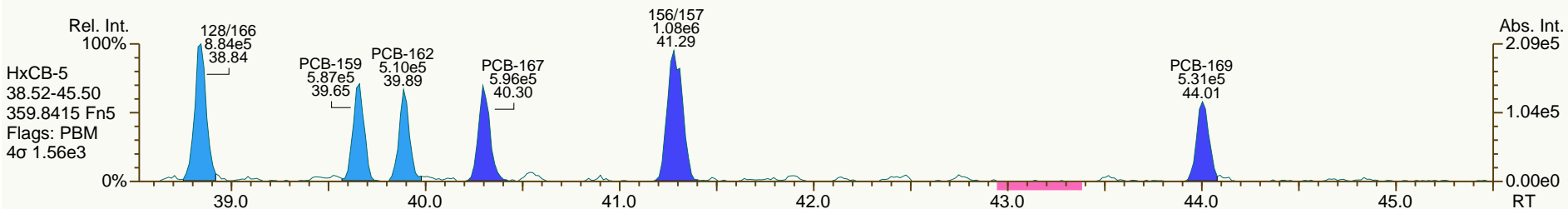
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

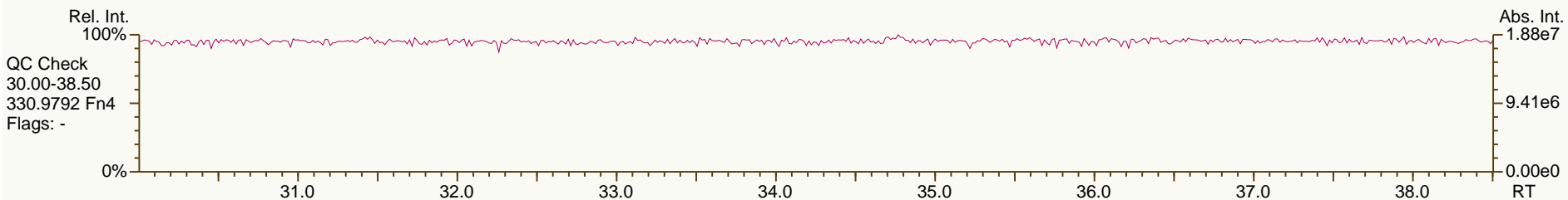
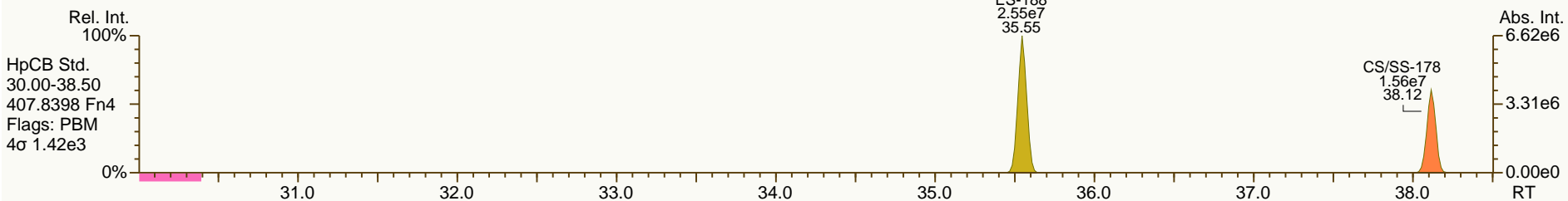
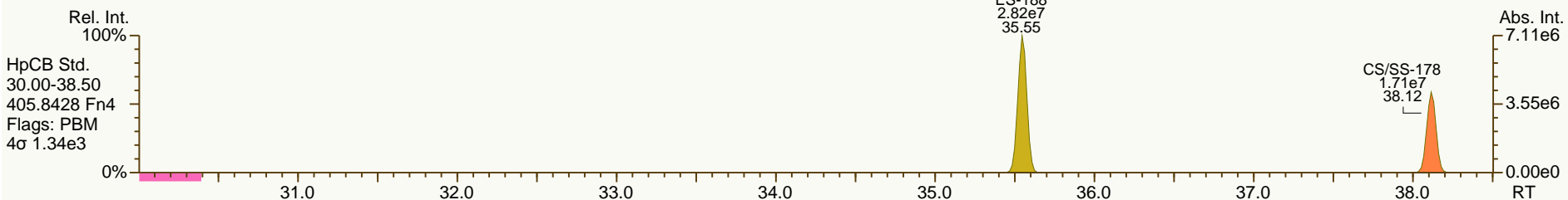
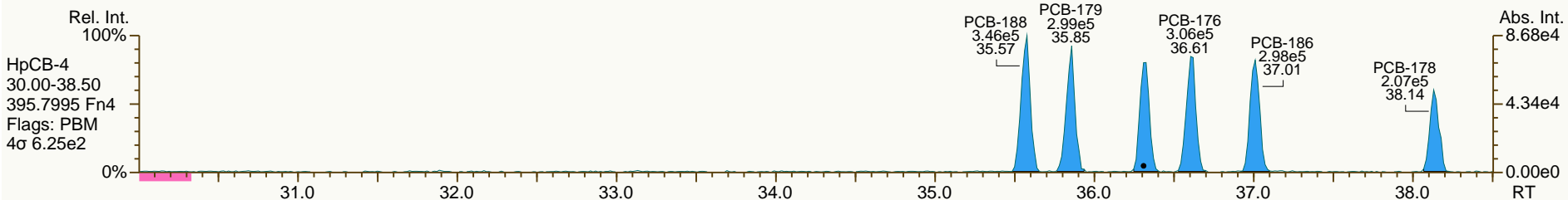
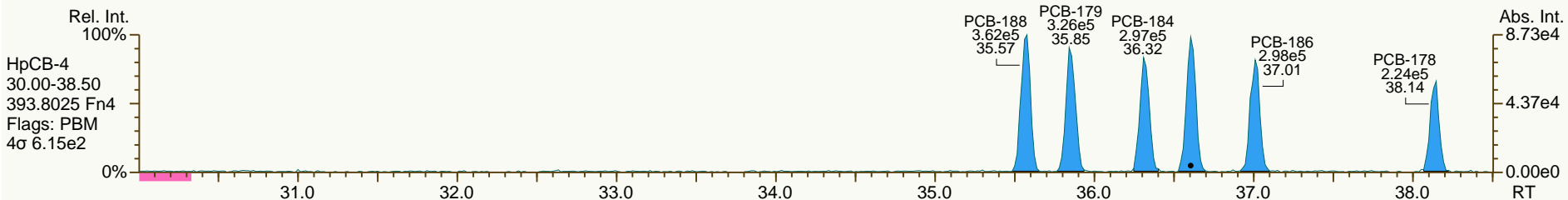
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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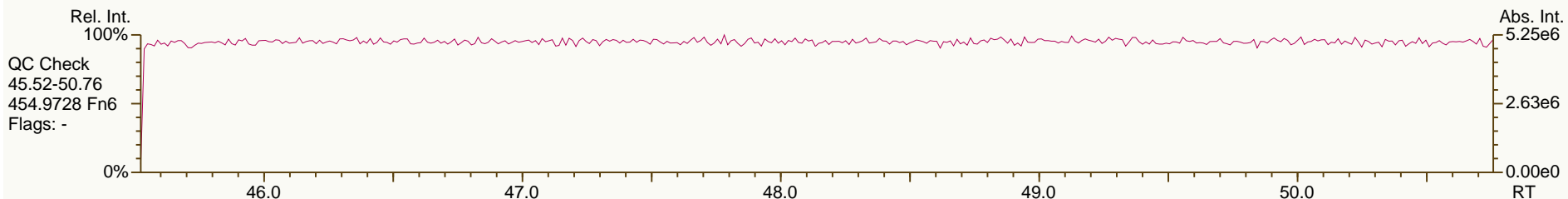
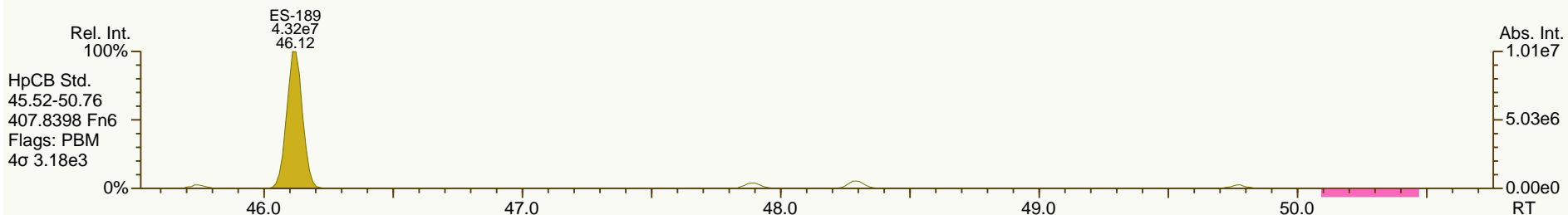
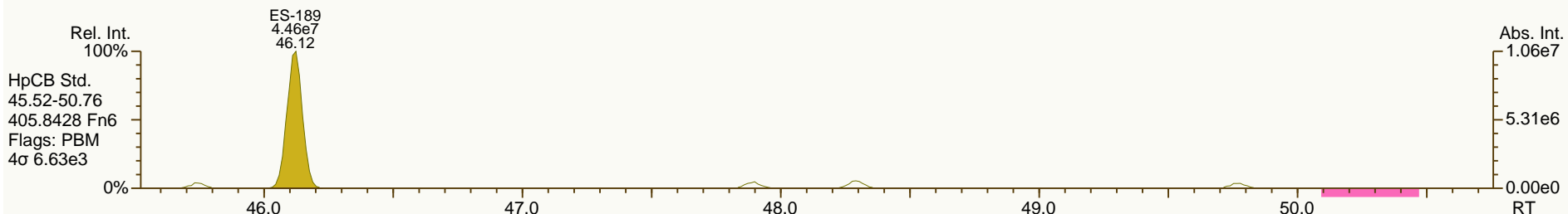
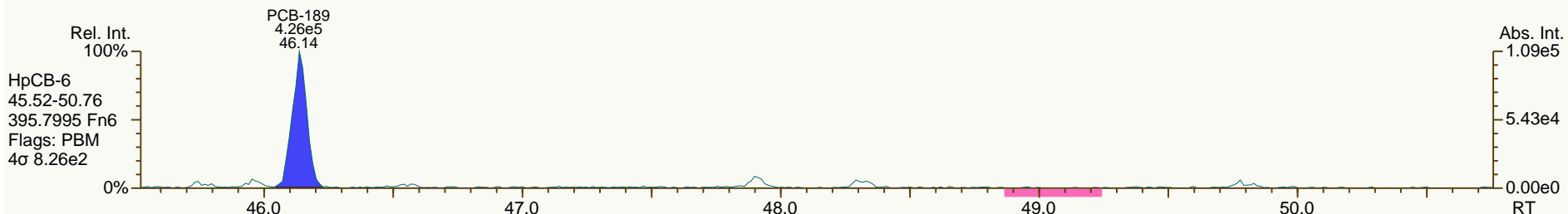
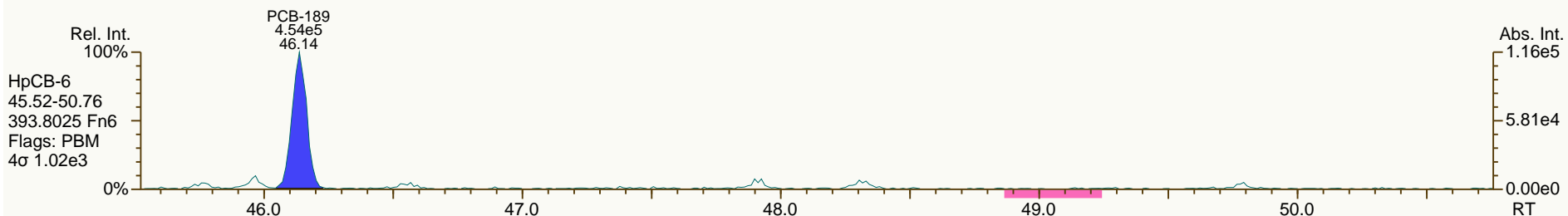
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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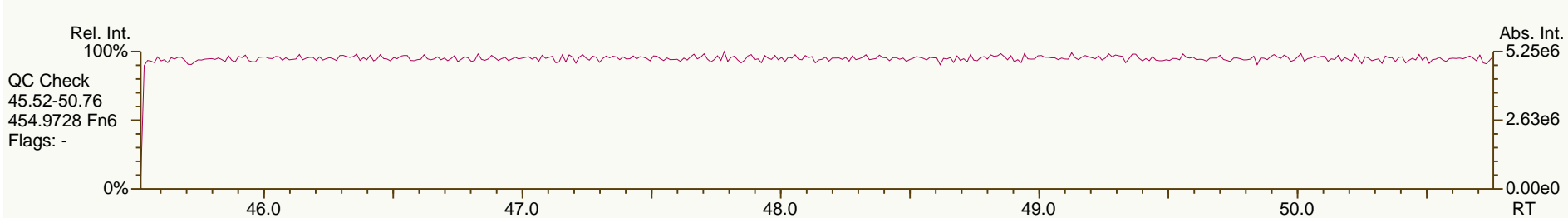
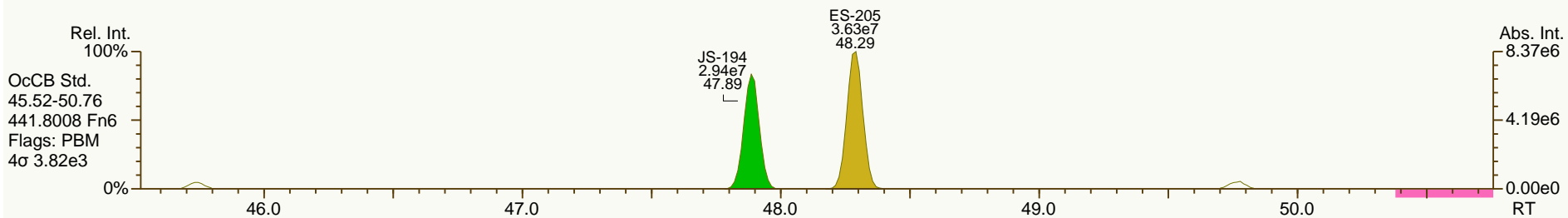
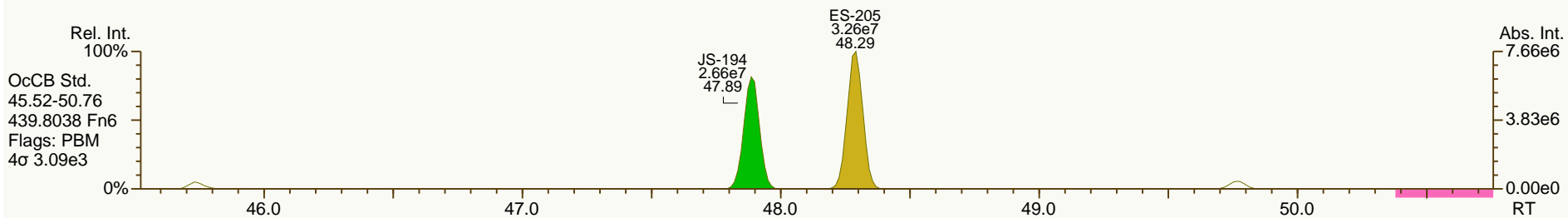
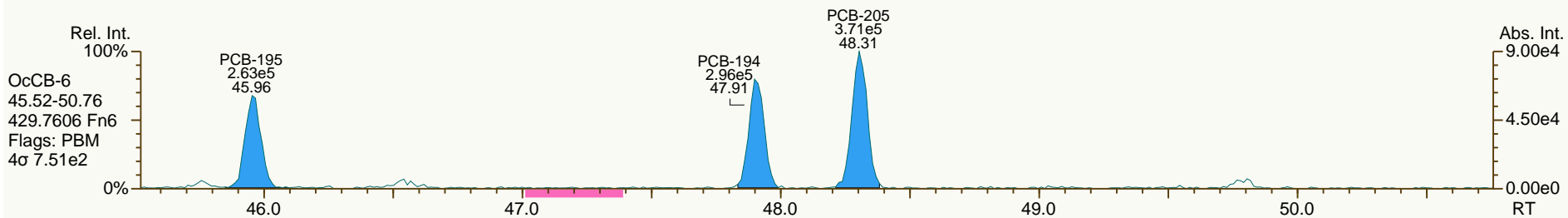
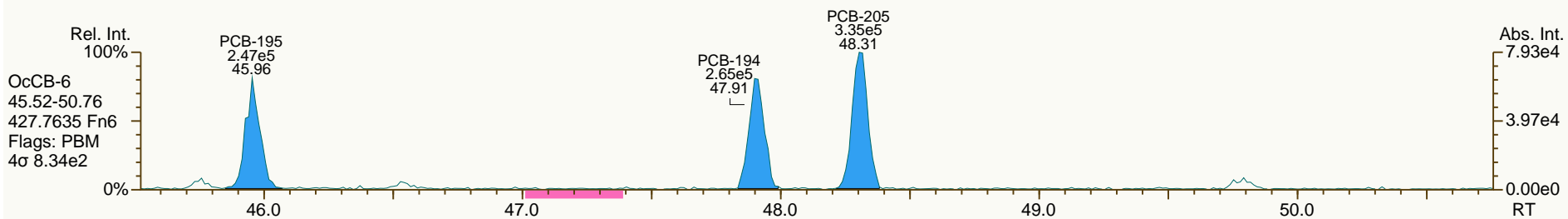




SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

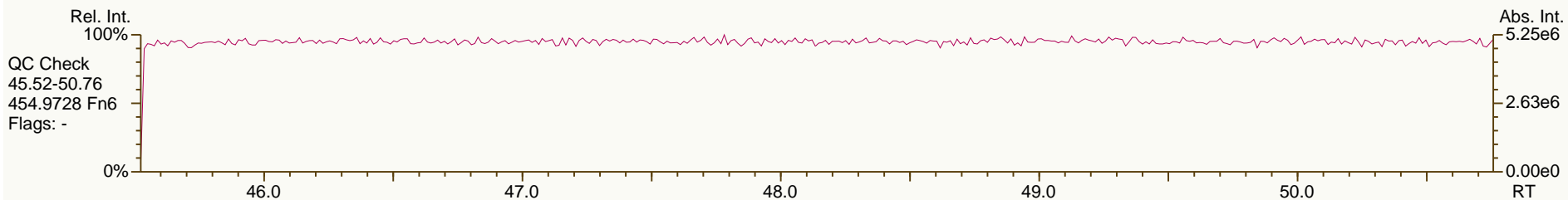
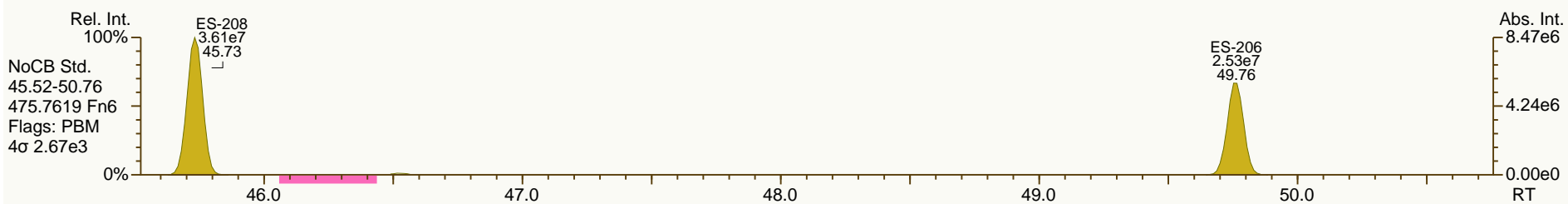
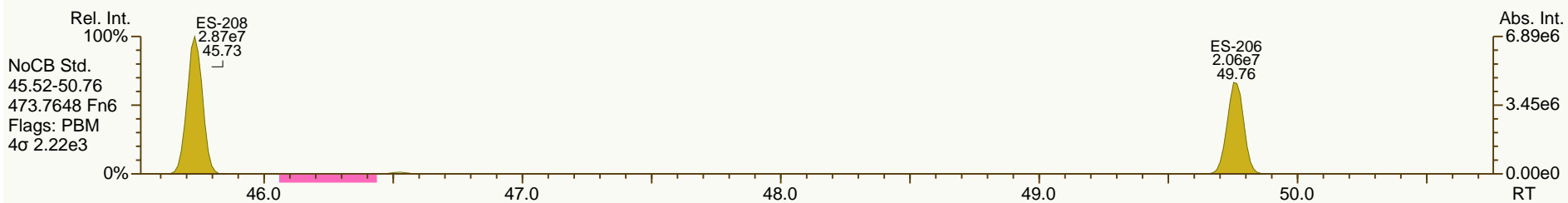
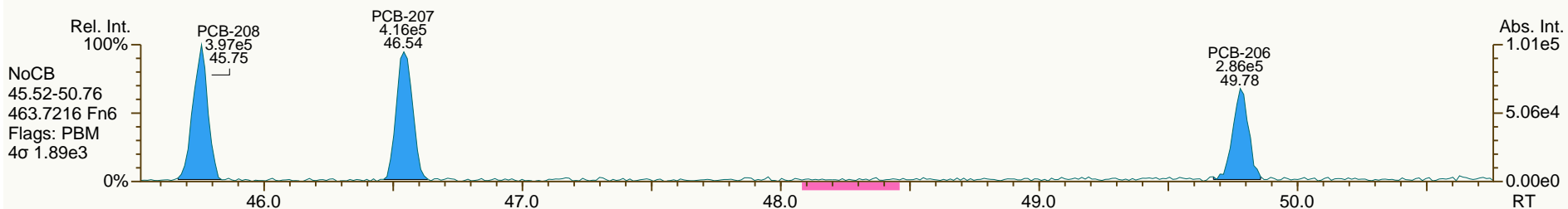
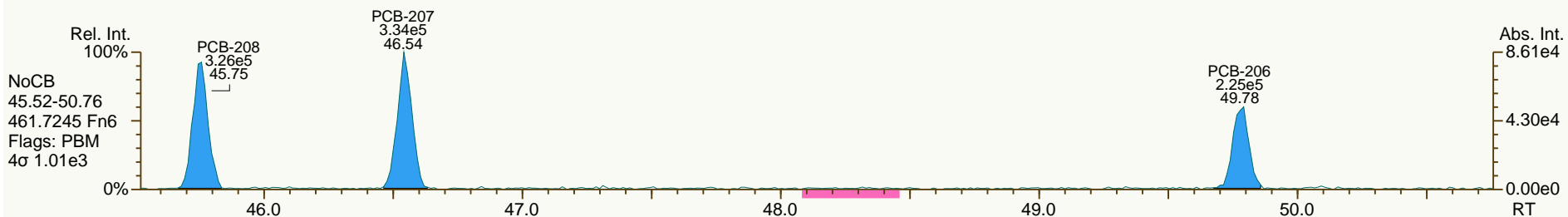
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

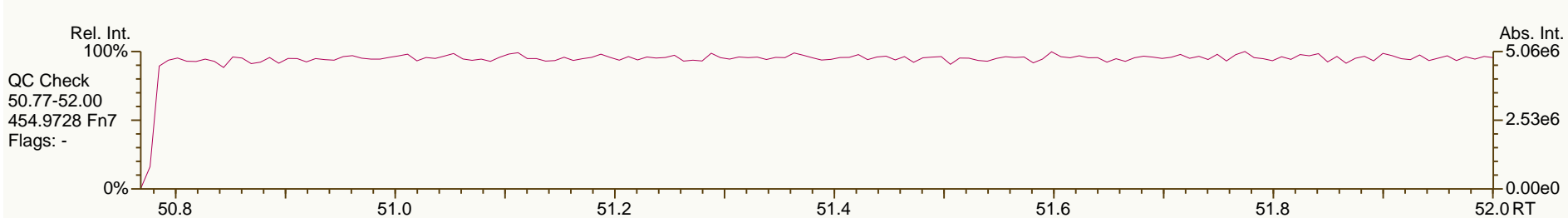
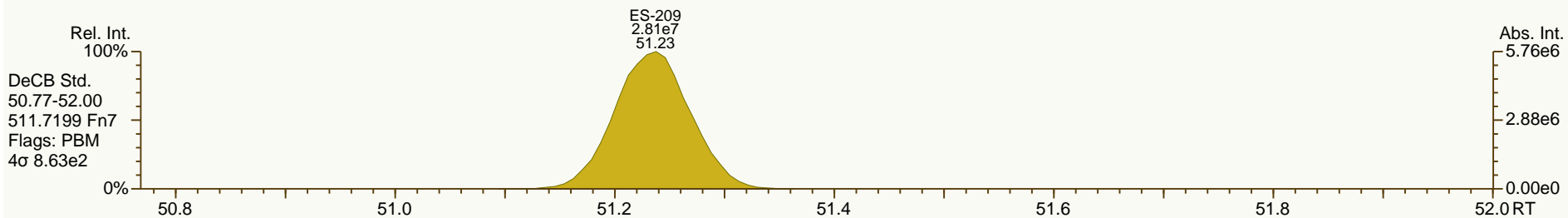
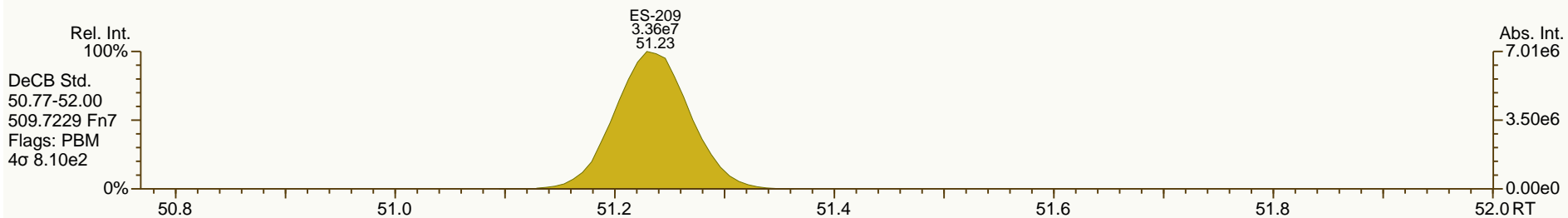
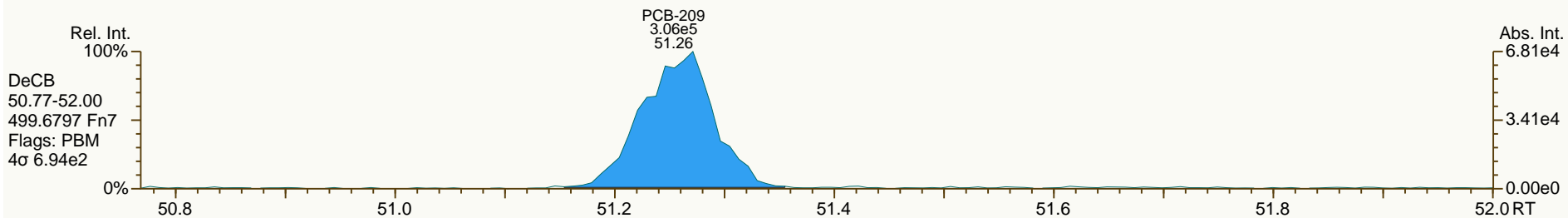
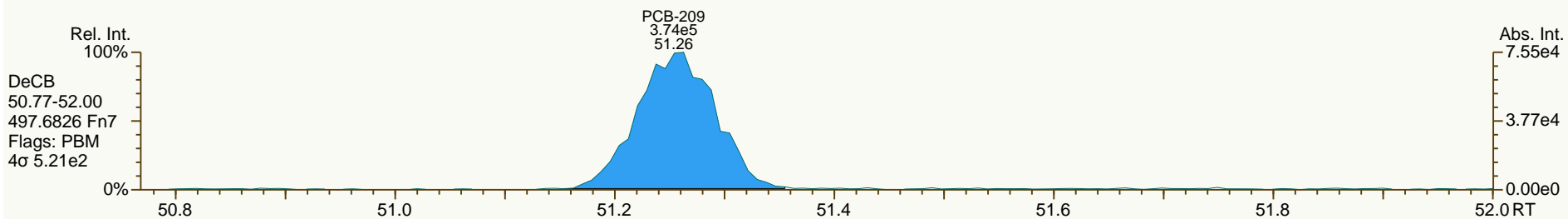
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 User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	7.18E+06	0.79 Y	1.15	1.09	-5.2%	
PCB-81 344'5'-TeCB	32.63	6.81E+06	0.77 Y	1.12	1.08	-3.8%	
PCB-105 233'44'-PeCB	36.11	5.68E+06	0.64 Y	1.11	1.07	-4.0%	
PCB-114 2344'5'-PeCB	35.56	6.19E+06	0.62 Y	1.20	1.15	-4.1%	
PCB-118 23'44'5'-PeCB	35.10	5.72E+06	0.60 Y	1.19	1.13	-5.1%	
PCB-123 23'44'5'-PeCB	34.82	5.95E+06	0.63 Y	1.21	1.16	-3.9%	
PCB-126 33'44'5'-PeCB	38.72	4.77E+06	0.62 Y	1.11	1.05	-5.1%	
PCB-156/157 ...-HxCB	41.28	9.62E+06	1.25 Y	1.10	1.05	-4.7%	
PCB-167 23'44'55'-HxCB	40.29	5.42E+06	1.21 Y	1.16	1.12	-3.2%	
PCB-169 33'44'55'-HxCB	44.00	4.85E+06	1.23 Y	1.12	1.09	-3.1%	
PCB-189 233'44'55'-HpCB	46.13	4.61E+06	1.02 Y	1.07	1.03	-3.6%	
PCB-209 DeCB	51.25	3.38E+06	1.17 Y	1.11	1.06	-4.8%	
ES PCB-1	12.04	2.39E+08	3.26 Y	1.19	1.21	1.3%	
ES PCB-3	14.36	2.19E+08	3.37 Y	1.09	1.10	1.5%	
ES PCB-4	14.61	1.04E+08	1.62 Y	0.52	0.53	0.5%	
ES PCB-15	20.38	2.08E+08	1.56 Y	1.04	1.05	0.9%	
ES PCB-19	17.73	1.01E+08	1.08 Y	0.51	0.51	0.4%	
ES PCB-37	26.74	1.56E+08	1.09 Y	1.66	1.68	1.0%	
ES PCB-54	20.66	8.13E+07	0.82 Y	0.86	0.88	1.7%	
ES PCB-77	33.09	1.31E+08	0.80 Y	1.38	1.42	2.5%	
ES PCB-81	32.61	1.27E+08	0.80 Y	1.37	1.36	-0.2%	
ES PCB-104	25.67	7.00E+07	1.67 Y	0.80	0.82	2.2%	
ES PCB-105	36.08	1.06E+08	1.61 Y	1.20	1.25	3.7%	
ES PCB-114	35.54	1.07E+08	1.65 Y	1.22	1.26	3.3%	
ES PCB-118	35.07	1.01E+08	1.61 Y	1.16	1.19	2.4%	
ES PCB-123	34.79	1.02E+08	1.58 Y	1.19	1.20	1.1%	
ES PCB-126	38.70	9.09E+07	1.58 Y	1.03	1.07	3.7%	
ES PCB-153	36.66	6.37E+07	1.31 Y	1.11	1.13	1.3%	
ES PCB-155	30.64	9.19E+07	1.33 Y	1.59	1.63	2.5%	
ES PCB-156/157	41.26	1.84E+08	1.30 Y	1.60	1.63	1.9%	
ES PCB-167	40.27	9.64E+07	1.30 Y	1.67	1.71	2.3%	
ES PCB-169	43.98	8.90E+07	1.30 Y	1.56	1.58	1.3%	
ES PCB-170	43.49	5.32E+07	1.08 Y	0.95	0.96	1.0%	
ES PCB-180	42.42	6.31E+07	1.09 Y	1.14	1.13	-0.4%	
ES PCB-188	35.54	5.40E+07	1.06 Y	0.94	0.96	1.8%	
ES PCB-189	46.11	8.91E+07	1.03 Y	1.58	1.60	1.0%	
ES PCB-202	40.08	5.60E+07	0.94 Y	0.97	0.99	2.3%	
ES PCB-205	48.28	7.02E+07	0.89 Y	1.24	1.26	1.3%	
ES PCB-206	49.75	4.73E+07	0.81 Y	0.83	0.85	2.3%	
ES PCB-208	45.73	6.67E+07	0.80 Y	1.17	1.20	1.9%	
ES PCB-209	51.23	6.37E+07	1.19 Y	1.11	1.14	3.2%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.73E+08	1.09 Y	1.11	1.11	-0.2%	
SS PCB-111	33.11	1.05E+08	1.62 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	3.27E+07	1.12 Y	0.62	0.61	-2.3%	
CS PCB-28	23.16	1.73E+08	1.09 Y	1.85	1.86	0.9%	
CS PCB-111	33.11	1.05E+08	1.62 Y	1.22	1.23	1.1%	
CS PCB-178	38.10	3.27E+07	1.12 Y	0.58	0.58	-0.5%	
JS PCB-9	16.61	1.98E+08	1.57 Y	-	-	-	
JS PCB-52	24.79	9.28E+07	0.79 Y	-	-	-	
JS PCB-101	30.81	8.53E+07	1.59 Y	-	-	-	
JS PCB-138	37.73	5.64E+07	1.31 Y	-	-	-	
JS PCB-194	47.88	5.57E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-2 3-MoCB	14.18	1.07E+07	3.30 Y	1.03	0.98	-5.2%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-10 26'-DiCB	14.81	1.01E+07	1.59 Y	1.98	1.93	-2.5%	
PCB-9 25'-DiCB	16.63	9.38E+06	1.58 Y	0.95	0.90	-4.6%	
PCB-7 24'-DiCB	16.80	1.06E+07	1.65 Y	1.05	1.02	-2.9%	
PCB-6 23'-DiCB	17.03	9.98E+06	1.58 Y	1.00	0.96	-3.7%	
PCB-5 23'-DiCB	17.33	1.00E+07	1.62 Y	1.00	0.96	-3.7%	
PCB-8 24'-DiCB	17.45	1.05E+07	1.60 Y	1.03	1.00	-2.7%	
PCB-14 35'-DiCB	19.02	1.19E+07	1.61 Y	1.18	1.15	-2.9%	
PCB-11 33'-DiCB	19.81	1.03E+07	1.64 Y	1.01	0.99	-1.9%	
PCB-13/12 34'/34'-DiCB	20.11	2.02E+07	1.61 Y	0.99	0.97	-1.7%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-30/18 246/22'5'-TrCB	19.52	1.52E+07	1.08 Y	1.54	1.51	-1.8%	
PCB-17 22'4'-TrCB	19.93	6.40E+06	1.08 Y	1.31	1.27	-2.7%	
PCB-27 23'6'-TrCB	20.12	8.92E+06	1.07 Y	1.82	1.77	-2.6%	
PCB-24 236'-TrCB	20.26	8.42E+06	1.05 Y	1.72	1.67	-3.0%	
PCB-16 22'3'-TrCB	20.35	5.03E+06	1.05 Y	1.01	1.00	-0.7%	
PCB-32 24'6'-TrCB	20.84	9.31E+06	1.07 Y	1.92	1.85	-3.7%	
PCB-34 23'5'-TrCB	21.99	8.68E+06	0.97 Y	1.14	1.11	-1.9%	
PCB-23 235'-TrCB	22.14	8.57E+06	1.00 Y	1.16	1.10	-4.7%	
PCB-26/29 23'5'/245'-TrCB	22.43	1.76E+07	0.99 Y	1.17	1.13	-3.4%	
PCB-25 23'4'-TrCB	22.63	8.79E+06	0.95 Y	1.16	1.13	-2.4%	
PCB-31 24'5'-TrCB	22.91	9.29E+06	0.97 Y	1.23	1.19	-2.7%	
PCB-28/20 244'/233'-TrCB	23.19	1.69E+07	1.00 Y	1.13	1.08	-4.3%	
PCB-21/33 234'/23'4'-TrCB	23.38	1.76E+07	0.99 Y	1.17	1.13	-3.7%	
PCB-22 234'-TrCB	23.75	8.06E+06	1.00 Y	1.08	1.04	-4.1%	
PCB-36 33'5'-TrCB	25.14	8.80E+06	0.98 Y	1.17	1.13	-3.4%	
PCB-39 34'5'-TrCB	25.46	9.00E+06	0.97 Y	1.21	1.16	-4.5%	
PCB-38 345'-TrCB	26.00	8.25E+06	0.97 Y	1.10	1.06	-4.0%	
PCB-35 33'4'-TrCB	26.39	7.78E+06	1.00 Y	1.04	1.00	-3.9%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.07E+07	0.80 Y	0.88	0.84	-3.9%	
PCB-45 22'36'-TeCB	23.27	4.46E+06	0.79 Y	0.77	0.70	-8.2%	
PCB-51 22'46'-TeCB	23.34	5.62E+06	0.80 Y	0.86	0.89	3.3%	
PCB-46 22'36'-TeCB	23.55	4.33E+06	0.78 Y	0.70	0.68	-2.0%	
PCB-52 22'55'-TeCB	24.82	5.19E+06	0.79 Y	0.84	0.82	-2.8%	
PCB-73 23'5'6'-TeCB	24.94	6.70E+06	0.79 Y	1.11	1.06	-4.8%	
PCB-43 22'35'-TeCB	25.04	4.56E+06	0.75 Y	0.71	0.72	1.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	1.26E+07	0.79 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	5.24E+06	0.81 Y	0.84	0.83	-1.3%	
PCB-44/47/65 ...-TeCB	25.74	1.64E+07	0.78 Y	0.90	0.86	-4.4%	
PCB-59/62/75 ...-TeCB	26.02	2.14E+07	0.79 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.18	4.75E+06	0.78 Y	0.76	0.75	-1.7%	
PCB-41 22'34'-TeCB	26.52	4.38E+06	0.79 Y	0.69	0.69	-0.5%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.05E+07	0.81 Y	0.86	0.83	-3.8%	
PCB-64 234'6'-TeCB	26.81	7.49E+06	0.79 Y	1.22	1.18	-3.0%	
PCB-72 23'55'-TeCB	27.53	7.51E+06	0.80 Y	1.21	1.19	-1.9%	
PCB-68 23'45'-TeCB	27.79	7.85E+06	0.75 Y	1.28	1.24	-2.8%	
PCB-57 233'5'-TeCB	28.16	7.33E+06	0.77 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.37	7.30E+06	0.76 Y	1.18	1.15	-2.1%	
PCB-67 23'45'-TeCB	28.52	7.81E+06	0.77 Y	1.26	1.23	-2.0%	
PCB-63 234'5'-TeCB	28.75	7.85E+06	0.76 Y	1.30	1.24	-4.4%	
PCB-61/70/74/76 ...-TeCB	29.05	2.94E+07	0.79 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.33	6.87E+06	0.76 Y	1.10	1.09	-1.5%	
PCB-55 233'4'-TeCB	29.47	7.07E+06	0.79 Y	1.12	1.12	-0.3%	
PCB-56 233'4'-TeCB	29.91	6.96E+06	0.77 Y	1.11	1.10	-1.0%	
PCB-60 2344'-TeCB	30.11	7.00E+06	0.78 Y	1.14	1.11	-2.5%	
PCB-80 33'55'-TeCB	30.43	8.09E+06	0.80 Y	1.31	1.28	-2.7%	
PCB-79 33'45'-TeCB	31.76	8.10E+06	0.78 Y	1.31	1.28	-2.0%	
PCB-78 33'45'-TeCB	32.25	6.61E+06	0.79 Y	1.06	1.04	-1.6%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-96 22'366'-PeCB	26.01	4.21E+06	0.65 Y	1.23	1.20	-2.0%	
PCB-103 22'45'6'-PeCB	27.71	4.65E+06	0.62 Y	0.93	0.91	-2.2%	
PCB-94 22'356'-PeCB	27.90	4.04E+06	0.63 Y	0.80	0.79	-1.3%	
PCB-95 22'35'6'-PeCB	28.28	4.36E+06	0.62 Y	0.87	0.85	-1.5%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	8.64E+06	0.63 Y	0.86	0.85	-2.1%	
PCB-102 22'456'-PeCB	28.61	5.08E+06	0.63 Y	0.97	0.99	2.6%	
PCB-98 22'34'6'-PeCB	28.68	3.64E+06	0.64 Y	0.76	0.71	-6.0%	
PCB-88 22'346'-PeCB	28.98	3.75E+06	0.65 Y	0.80	0.73	-8.2%	
PCB-91 22'34'6'-PeCB	29.04	4.80E+06	0.63 Y	0.94	0.94	-0.5%	
PCB-84 22'33'6'-PeCB	29.24	3.58E+06	0.61 Y	0.72	0.70	-2.1%	
PCB-89 22'346'-PeCB	29.66	3.81E+06	0.62 Y	0.76	0.75	-2.3%	
PCB-121 23'45'6'-PeCB	30.00	5.96E+06	0.63 Y	1.20	1.16	-2.9%	
PCB-92 22'355'-PeCB	30.32	4.05E+06	0.62 Y	0.82	0.79	-3.5%	
PCB-113/90/101 ...-PeCB	30.81	1.47E+07	0.63 Y	0.99	0.96	-2.5%	
PCB-83 22'33'5'-PeCB	31.25	3.64E+06	0.59 Y	0.71	0.71	-0.4%	
PCB-99 22'44'5'-PeCB	31.34	4.49E+06	0.64 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.44	5.95E+06	0.63 Y	1.17	1.16	-0.4%	
PCB-108/119/86/97/125...-PeCB	31.79	2.92E+07	0.62 Y	0.98	0.95	-2.9%	
PCB-117 234'56'-PeCB	32.33	5.88E+06	0.62 Y	1.14	1.15	1.1%	
PCB-116/85 23456/22'344'-PeCB	32.42	9.01E+06	0.64 Y	0.94	0.88	-6.3%	
PCB-110 233'4'6'-PeCB	32.53	5.43E+06	0.63 Y	1.12	1.06	-5.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.94E+06	0.60 Y	1.16	1.16	0.3%	
PCB-82 22'33'4-PeCB	32.82	3.45E+06	0.62 Y	0.70	0.67	-3.3%	
PCB-111 233'55'-PeCB	33.13	6.10E+06	0.63 Y	1.22	1.19	-2.3%	
PCB-120 23'455'-PeCB	33.53	6.04E+06	0.64 Y	1.21	1.18	-2.5%	
PCB-107/124 ...-PeCB	34.50	1.09E+07	0.62 Y	1.10	1.07	-2.9%	
PCB-109 233'46-PeCB	34.71	6.46E+06	0.62 Y	1.25	1.26	0.8%	
PCB-106 233'45-PeCB	34.93	5.32E+06	0.64 Y	1.11	1.04	-5.8%	
PCB-122 233'4'5'-PeCB	35.39	5.09E+06	0.64 Y	0.99	0.95	-4.5%	
PCB-127 33'455'-PeCB	37.34	5.46E+06	0.62 Y	1.10	1.03	-6.2%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-152 22'3566'-HxCB	30.82	5.18E+06	1.28 Y	1.17	1.13	-3.8%	
PCB-150 22'34'66'-HxCB	30.97	5.27E+06	1.27 Y	1.18	1.15	-2.5%	
PCB-136 22'33'66'-HxCB	31.27	4.80E+06	1.26 Y	1.07	1.04	-2.1%	
PCB-145 22'3466'-HxCB	31.55	4.89E+06	1.31 Y	1.11	1.06	-4.5%	
PCB-148 22'34'56'-HxCB	32.82	3.69E+06	1.28 Y	1.18	1.16	-2.2%	
PCB-151/135 ...-HxCB	33.34	7.14E+06	1.23 Y	1.14	1.12	-1.6%	
PCB-154 22'44'56'-HxCB	33.55	4.14E+06	1.24 Y	1.34	1.30	-3.2%	
PCB-144 22'345'6-HxCB	33.82	3.74E+06	1.28 Y	1.18	1.17	-0.8%	
PCB-147/149 ...-HxCB	34.12	7.38E+06	1.29 Y	1.18	1.16	-1.6%	
PCB-134 22'33'56-HxCB	34.29	2.81E+06	1.29 Y	0.92	0.88	-4.5%	
PCB-143 22'3456'-HxCB	34.38	3.63E+06	1.26 Y	1.13	1.14	0.8%	
PCB-139/140 ...-HxCB	34.64	7.45E+06	1.28 Y	1.21	1.17	-3.0%	
PCB-131 22'33'46-HxCB	34.82	3.13E+06	1.29 Y	1.03	0.98	-4.2%	
PCB-142 22'3456-HxCB	34.96	3.09E+06	1.24 Y	0.99	0.97	-1.9%	
PCB-132 22'33'46'-HxCB	35.20	3.22E+06	1.28 Y	1.03	1.01	-2.1%	
PCB-133 22'33'55'-HxCB	35.60	3.47E+06	1.26 Y	1.13	1.09	-3.9%	
PCB-165 233'55'6-HxCB	35.94	4.45E+06	1.24 Y	1.41	1.40	-0.9%	
PCB-146 22'34'55'-HxCB	36.16	3.72E+06	1.30 Y	1.20	1.17	-2.9%	
PCB-161 233'45'6-HxCB	36.28	4.78E+06	1.30 Y	1.52	1.50	-1.4%	
PCB-153/168 ...-HxCB	36.71	9.14E+06	1.28 Y	1.46	1.43	-1.6%	
PCB-141 22'3455'-HxCB	36.85	3.40E+06	1.30 Y	1.09	1.07	-2.0%	
PCB-130 22'33'45'-HxCB	37.20	3.05E+06	1.25 Y	0.97	0.96	-1.7%	
PCB-137 22'344'5-HxCB	37.40	3.51E+06	1.28 Y	1.16	1.10	-5.3%	
PCB-164 233'4'5'6-HxCB	37.48	4.84E+06	1.28 Y	1.50	1.52	1.3%	
PCB-163/138/129 ...-HxCB	37.77	1.09E+07	1.27 Y	1.19	1.14	-3.9%	
PCB-160 233'456-HxCB	37.91	4.74E+06	1.26 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.09	5.15E+06	1.28 Y	1.66	1.62	-2.7%	
PCB-128/166 ...-HxCB	38.83	8.23E+06	1.25 Y	0.90	0.85	-5.1%	
PCB-159 233'455'-HxCB	39.64	5.14E+06	1.24 Y	1.11	1.07	-4.4%	
PCB-162 233'4'55'-HxCB	39.88	4.97E+06	1.21 Y	1.07	1.03	-3.7%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-179 22'33'566'-HpCB	35.84	3.06E+06	1.09 Y	1.16	1.13	-2.3%	
PCB-184 22'344'66'-HpCB	36.30	2.96E+06	1.03 Y	1.13	1.10	-2.6%	

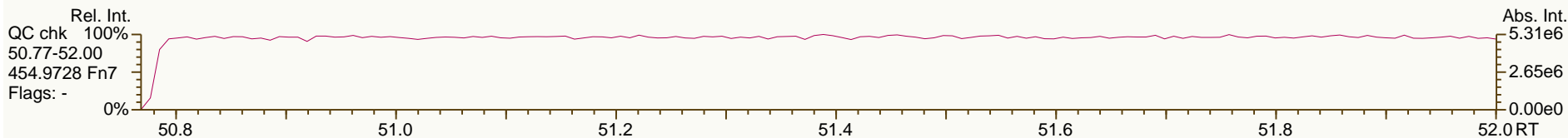
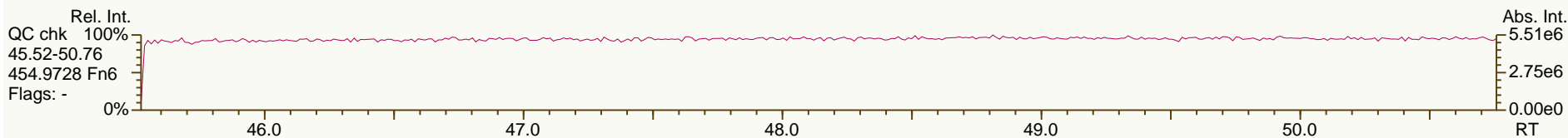
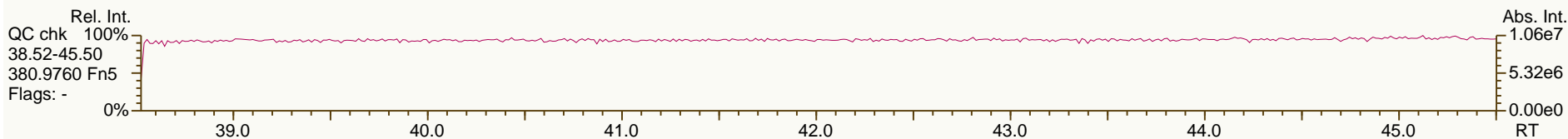
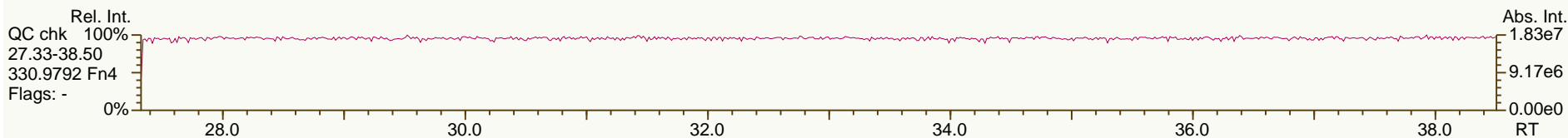
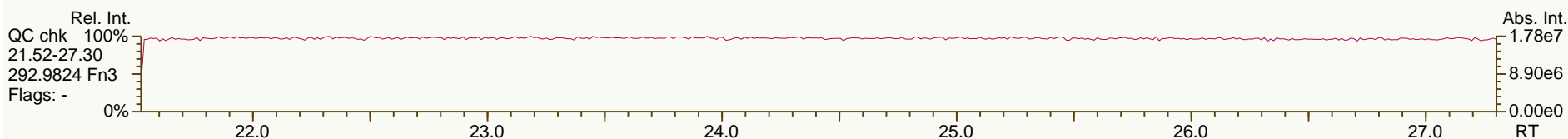
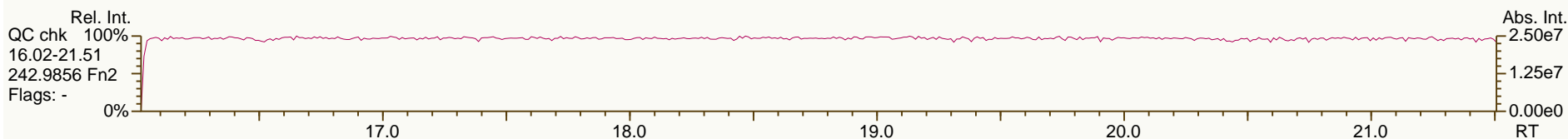
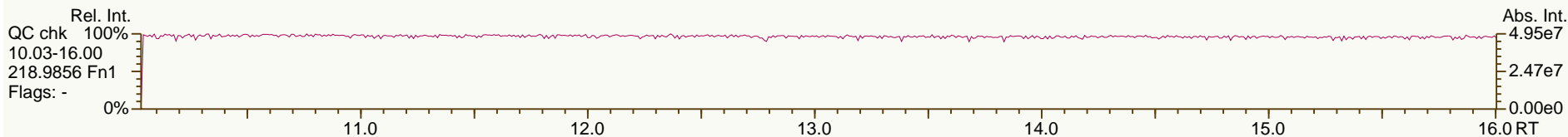


PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.29E+06	1.07 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.00	2.98E+06	1.06 Y	1.13	1.10	-1.9%	
PCB-178 22'33'55'6'-HpCB	38.13	2.21E+06	1.08 Y	0.84	0.82	-2.7%	
PCB-175 22'33'45'6'-HpCB	38.67	3.31E+06	1.06 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.90	3.49E+06	0.96 Y	1.14	1.11	-2.9%	
PCB-182 22'344'56'-HpCB	39.08	3.67E+06	1.07 Y	1.18	1.16	-1.0%	
PCB-183 22'344'5'6'-HpCB	39.43	3.83E+06	1.05 Y	1.20	1.21	0.7%	
PCB-185 22'3455'6'-HpCB	39.52	3.13E+06	1.08 Y	1.06	0.99	-6.4%	
PCB-174 22'33'456'-HpCB	39.62	3.03E+06	1.07 Y	0.99	0.96	-2.8%	
PCB-177 22'33'45'6'-HpCB	40.00	2.93E+06	1.10 Y	0.95	0.93	-2.3%	
PCB-181 22'344'56'-HpCB	40.35	3.27E+06	1.08 Y	1.09	1.04	-4.9%	
PCB-171/173 ...-HpCB	40.53	5.79E+06	1.06 Y	0.95	0.92	-3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.98E+06	1.07 Y	0.99	0.95	-4.3%	
PCB-192 233'455'6'-HpCB	42.13	4.03E+06	1.06 Y	1.29	1.28	-0.7%	
PCB-180/193 ...-HpCB	42.41	7.75E+06	1.08 Y	1.26	1.23	-2.6%	
PCB-191 233'44'5'6'-HpCB	42.74	4.20E+06	1.05 Y	1.40	1.33	-4.6%	
PCB-170 22'33'44'5'-HpCB	43.51	2.91E+06	1.04 Y	1.14	1.09	-3.7%	
PCB-190 233'44'56'-HpCB	43.97	4.21E+06	1.06 Y	1.66	1.58	-4.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-201 22'33'45'66'-OcCB	40.89	3.33E+06	0.92 Y	1.22	1.19	-2.7%	
PCB-204 22'344'566'-OcCB	41.47	3.01E+06	0.94 Y	1.12	1.08	-3.6%	
PCB-197 22'33'44'66'-OcCB	41.66	3.09E+06	0.91 Y	1.19	1.11	-7.1%	
PCB-200 22'33'4566'-OcCB	41.75	3.13E+06	0.89 Y	1.11	1.12	1.0%	
PCB-198/199 ...-OcCB	44.08	4.38E+06	0.92 Y	0.81	0.78	-3.4%	
PCB-196 22'33'44'56'-OcCB	44.66	2.29E+06	0.94 Y	0.83	0.82	-1.8%	
PCB-203 22'344'55'6'-OcCB	44.83	2.39E+06	0.93 Y	0.87	0.85	-2.2%	
PCB-195 22'33'44'56'-OcCB	45.95	2.57E+06	0.90 Y	0.77	0.73	-4.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.84E+06	0.87 Y	0.84	0.81	-4.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-207 22'33'44'566'-NoCB	46.54	3.79E+06	0.76 Y	1.19	1.14	-4.4%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
User: LKB Datafile: 131220X04



SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

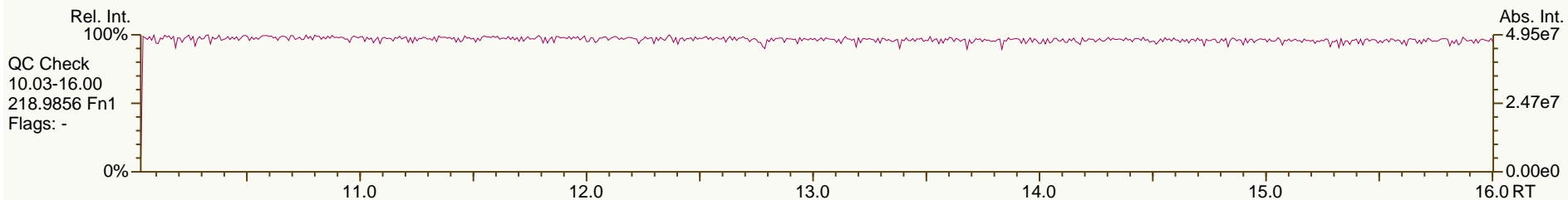
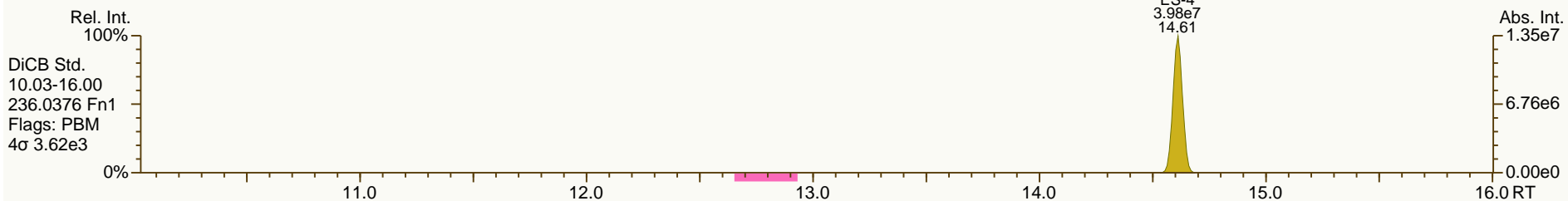
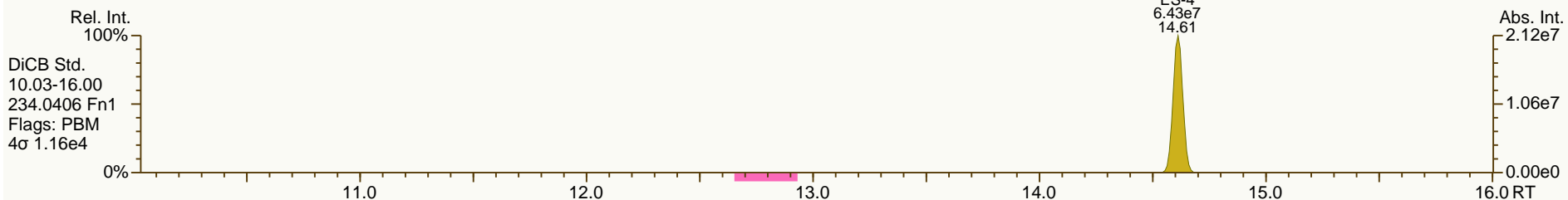
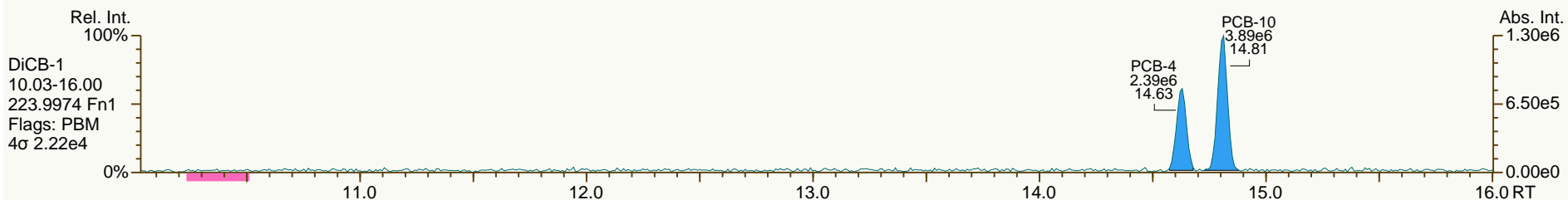
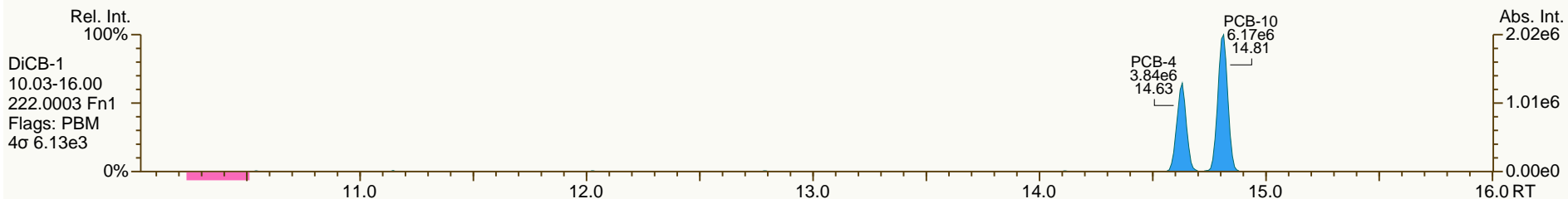
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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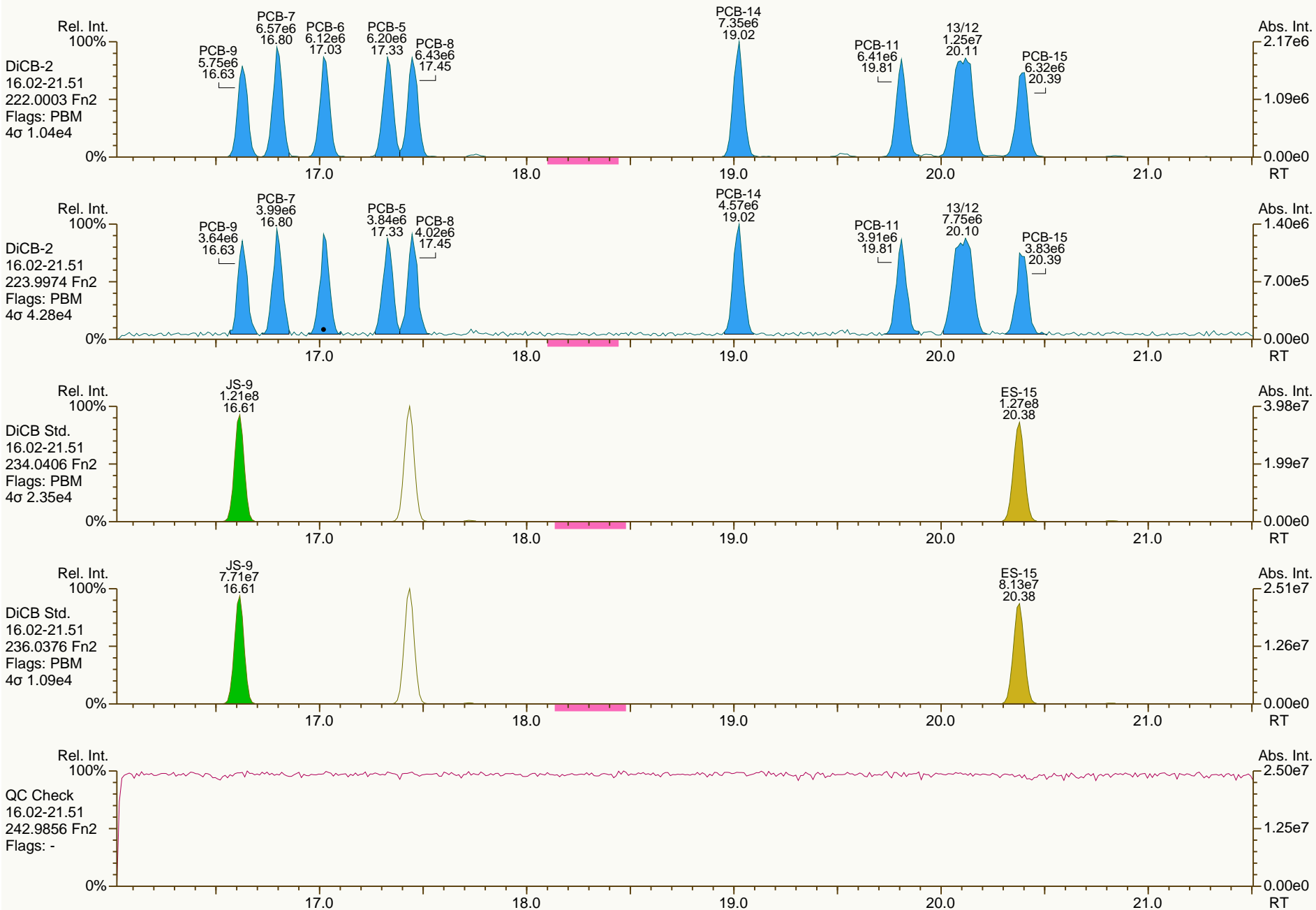
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

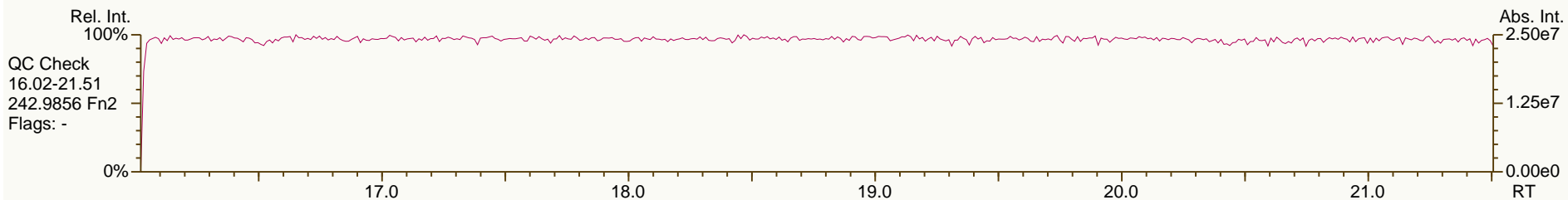
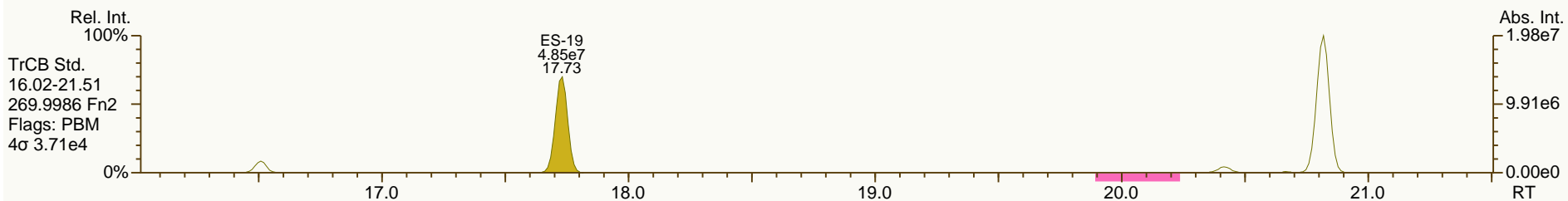
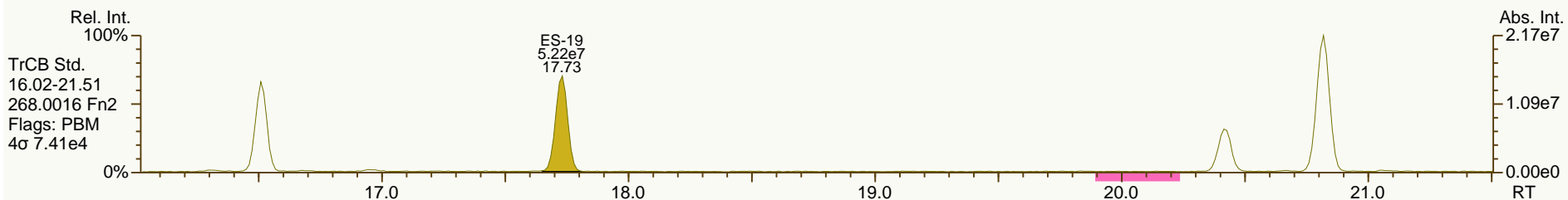
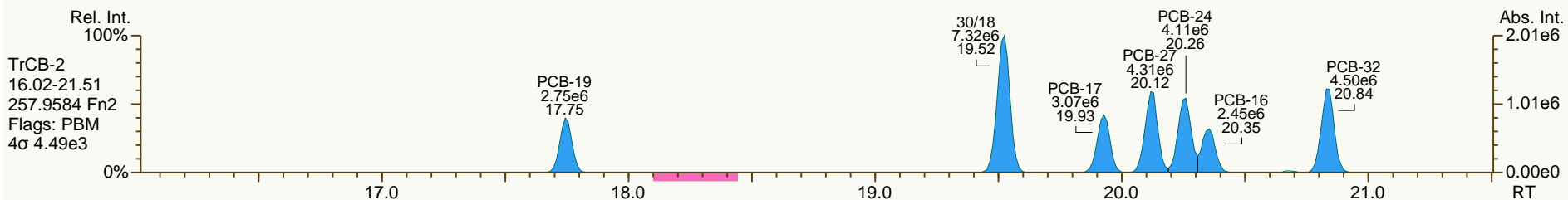
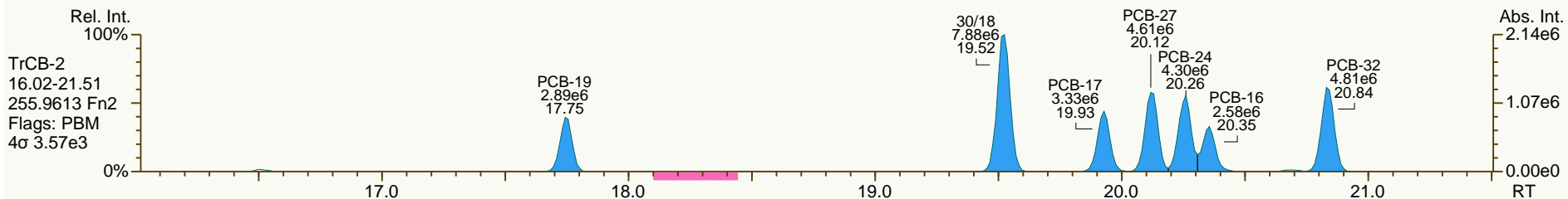
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

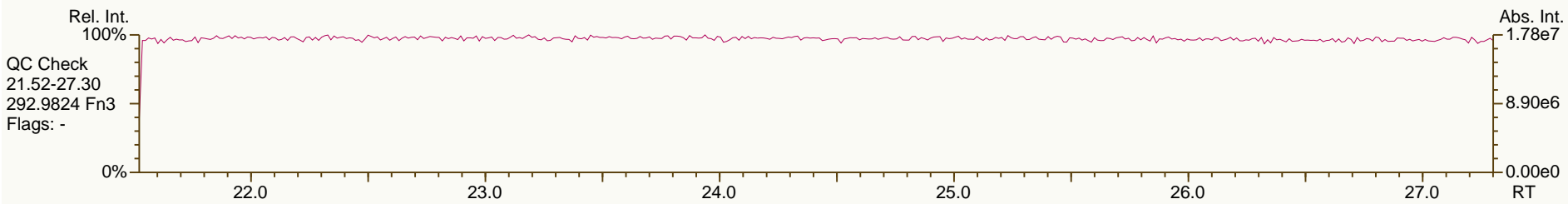
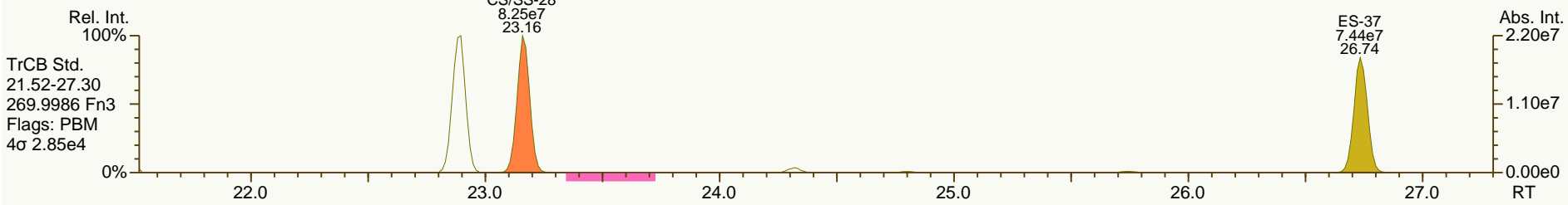
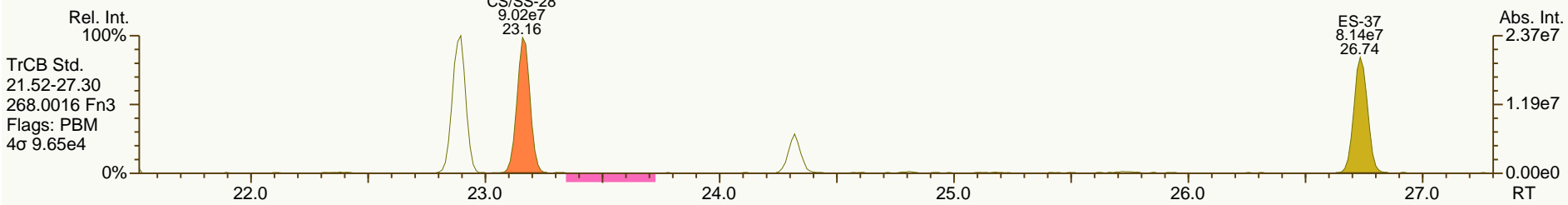
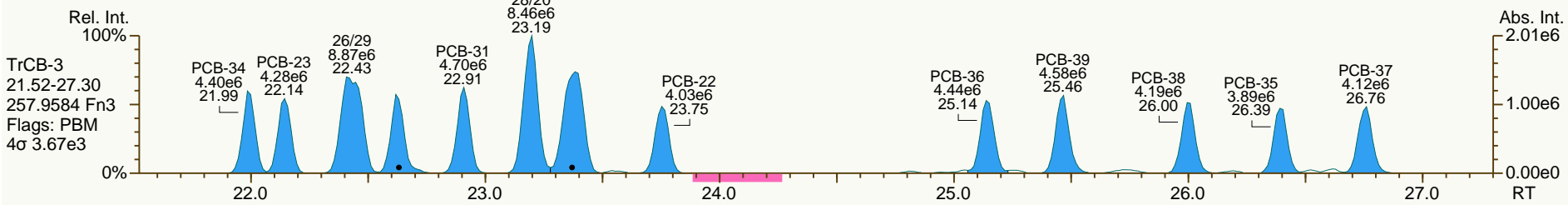
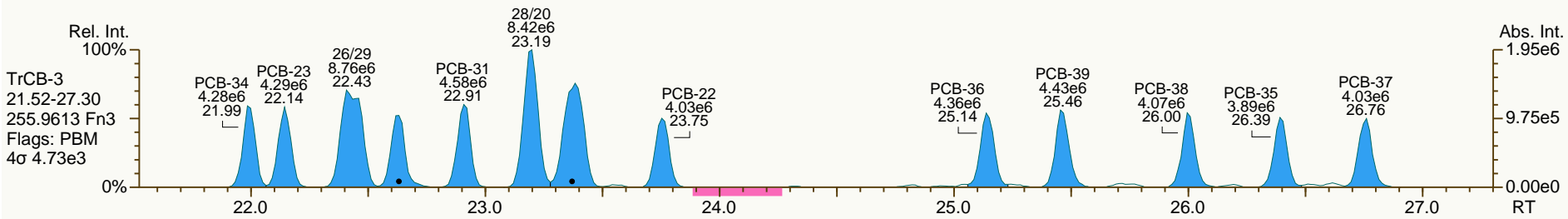
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

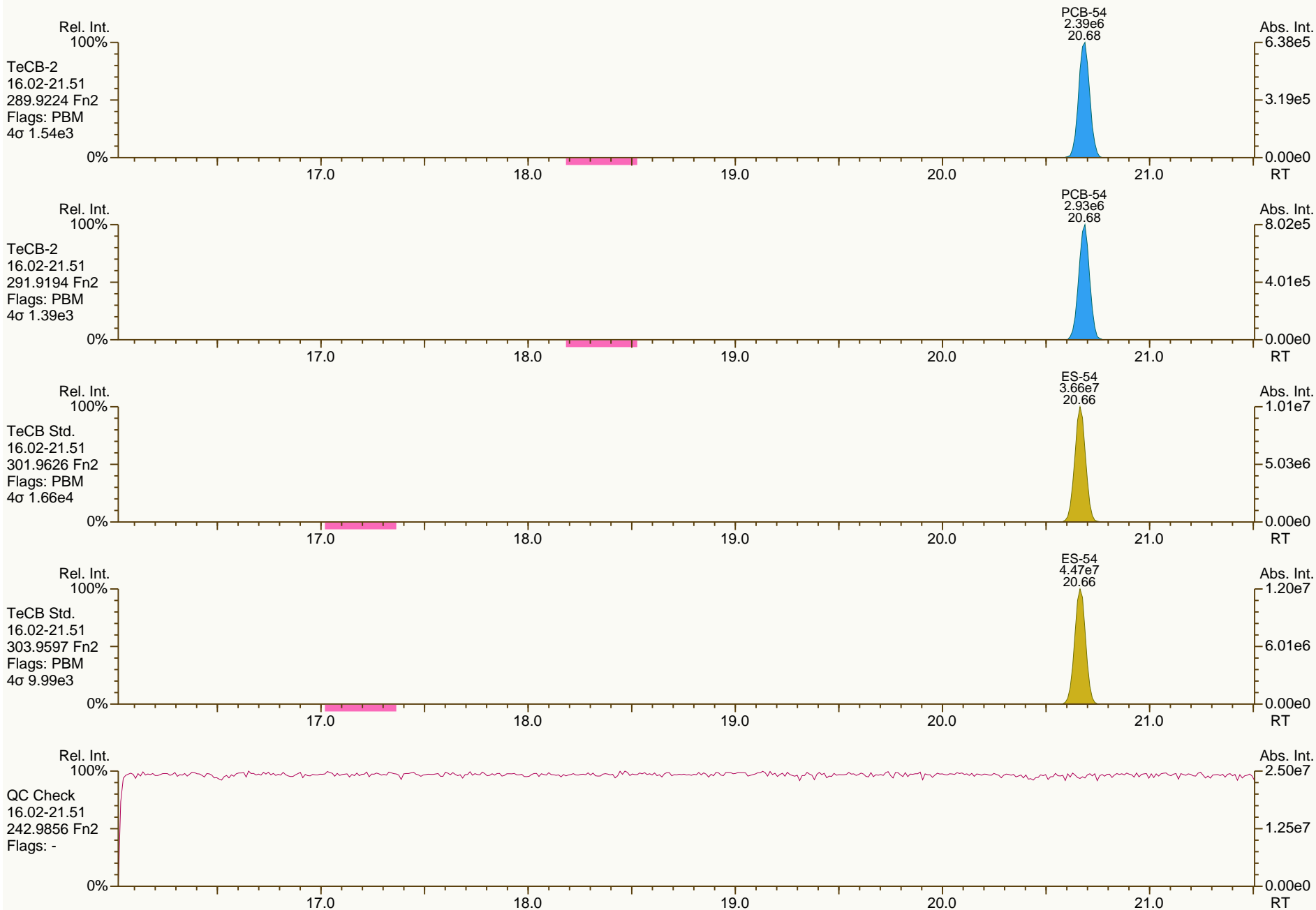
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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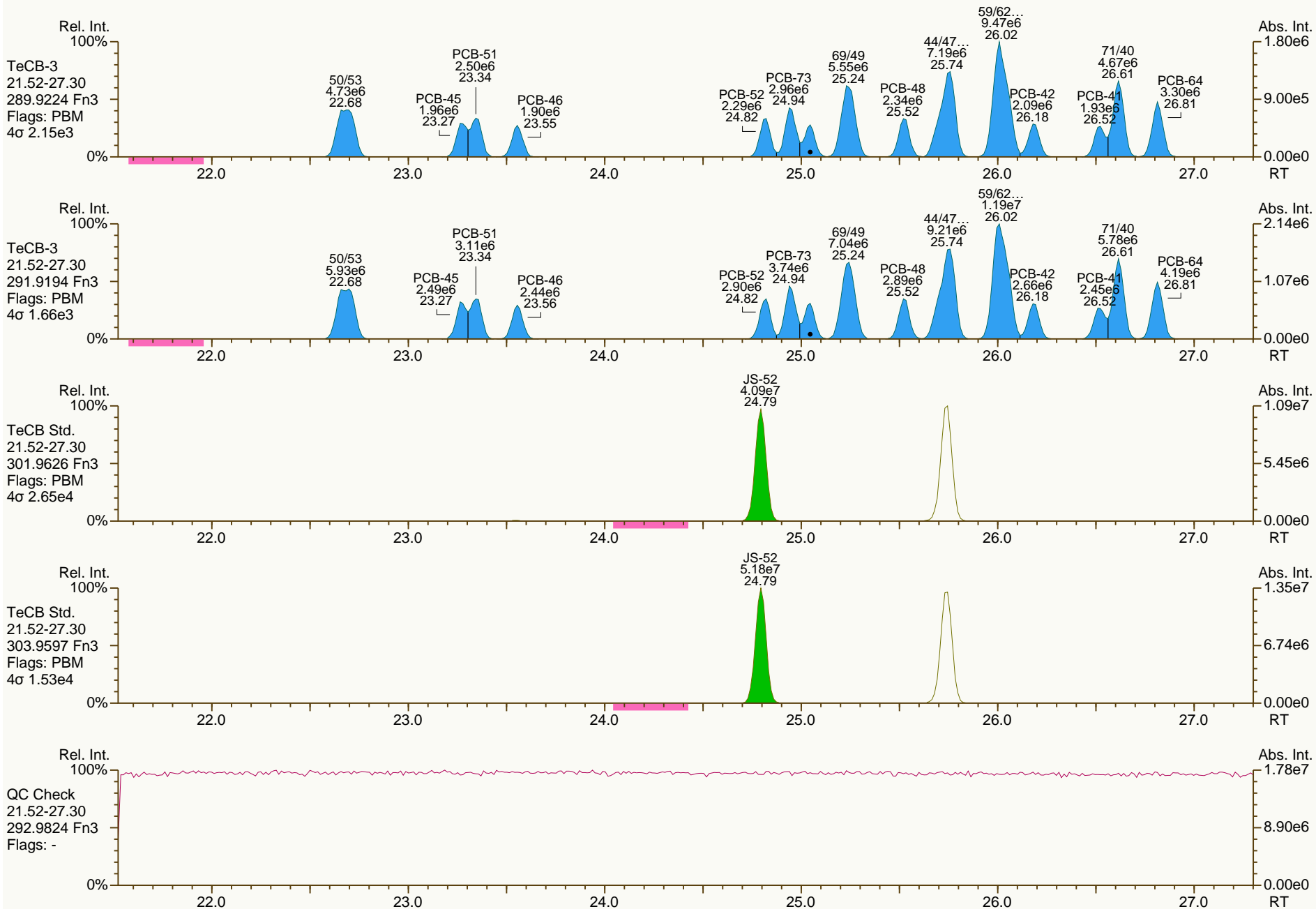




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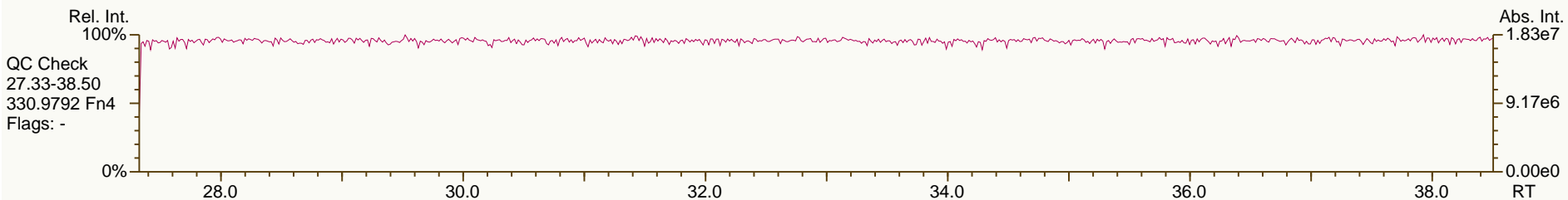
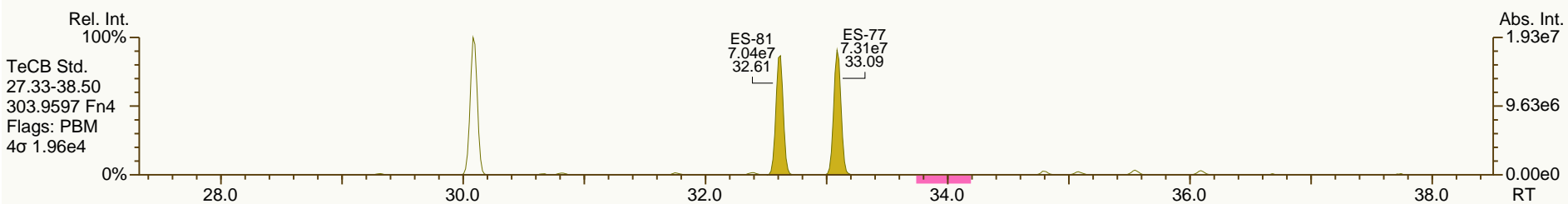
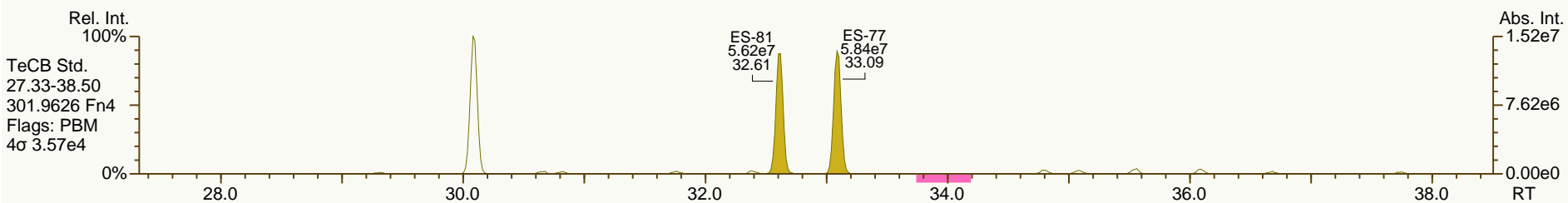
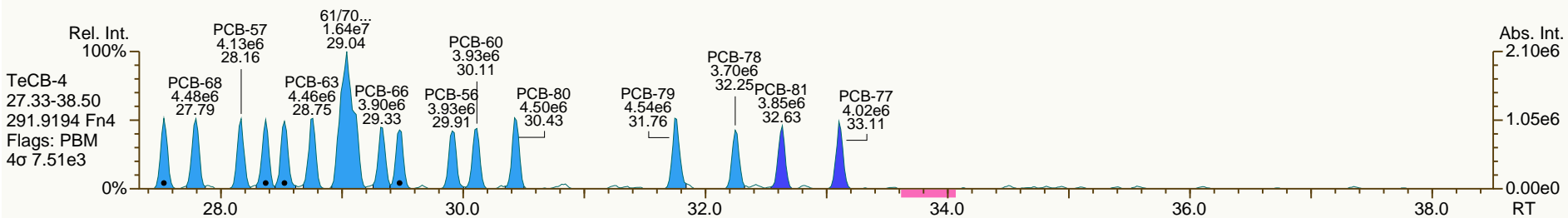
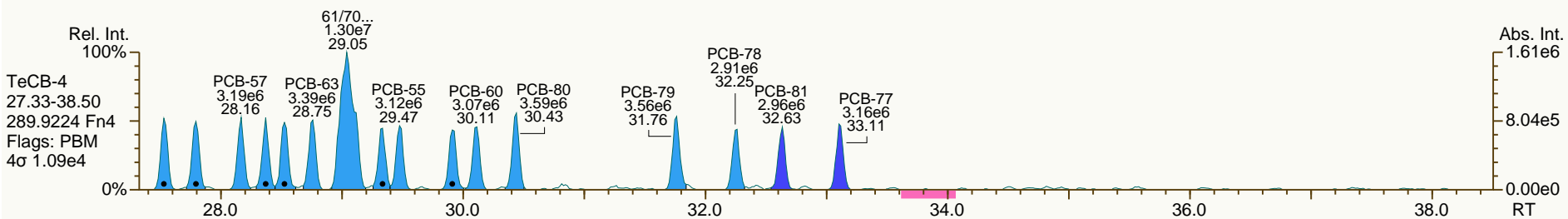
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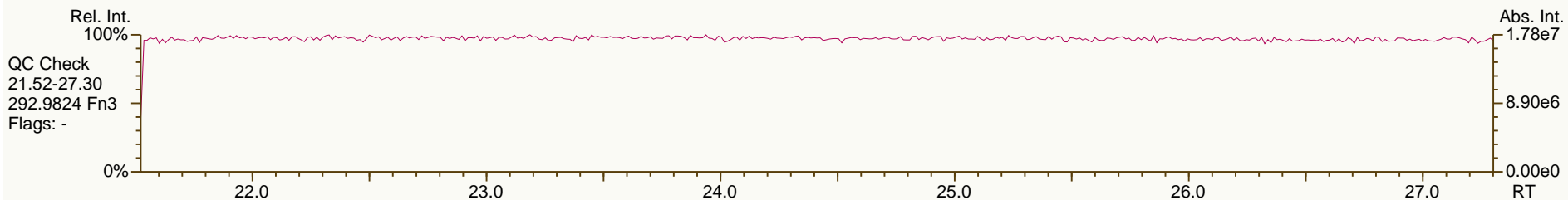
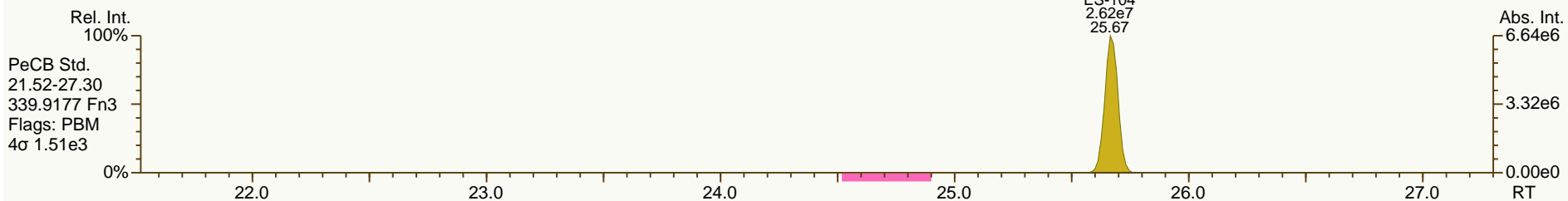
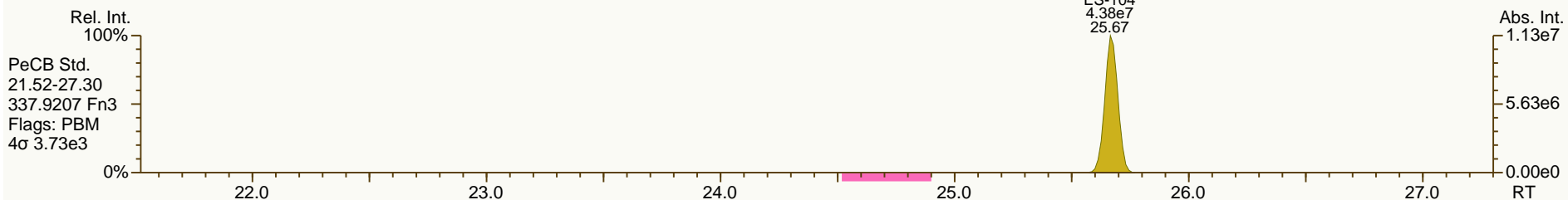
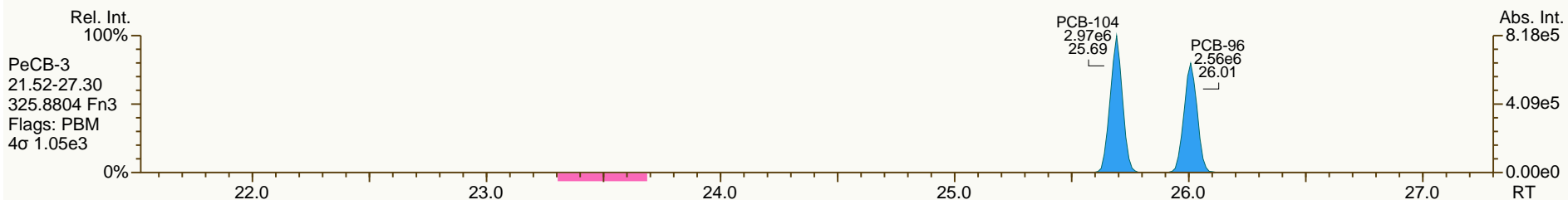
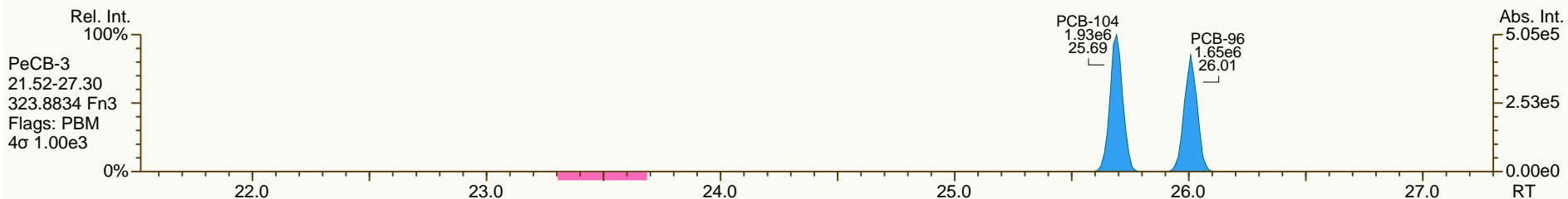
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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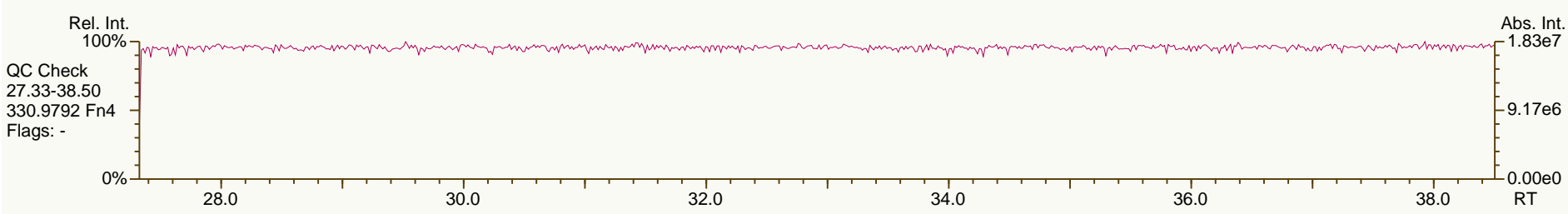
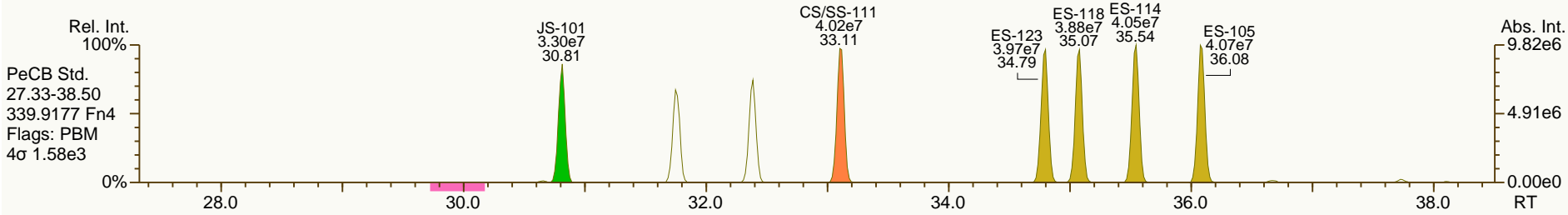
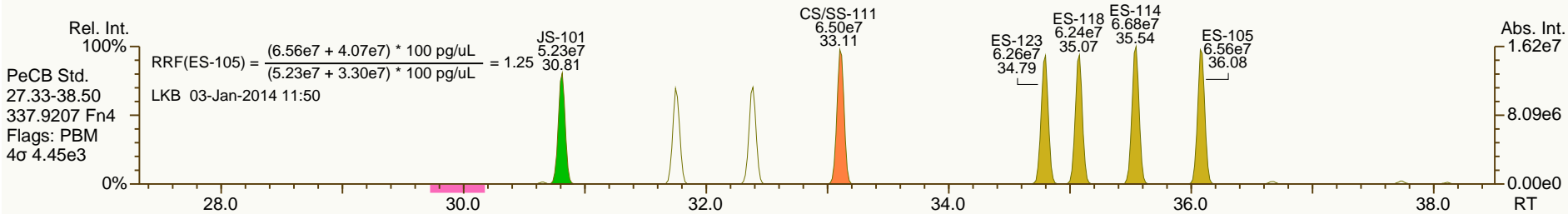
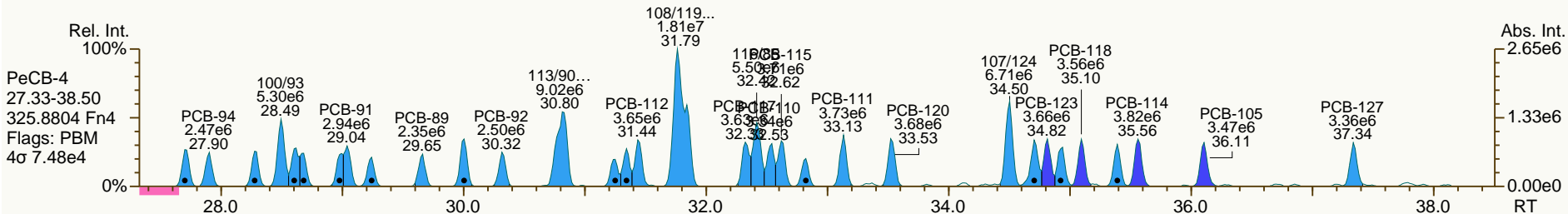
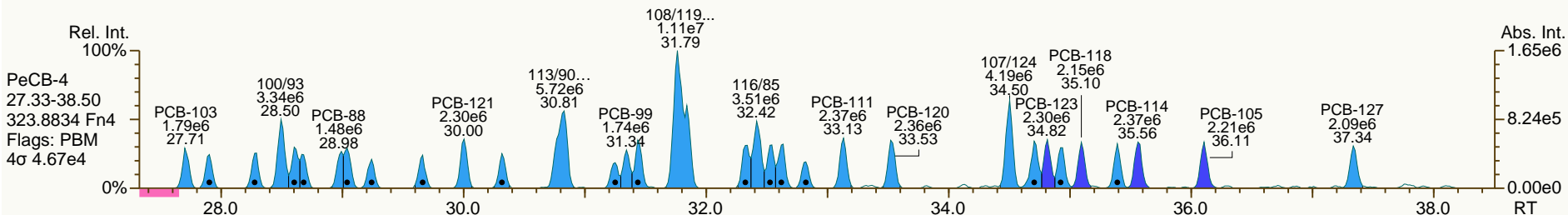
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

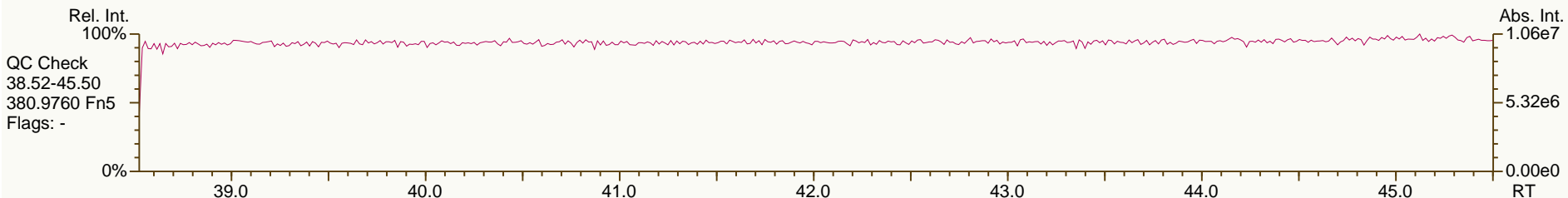
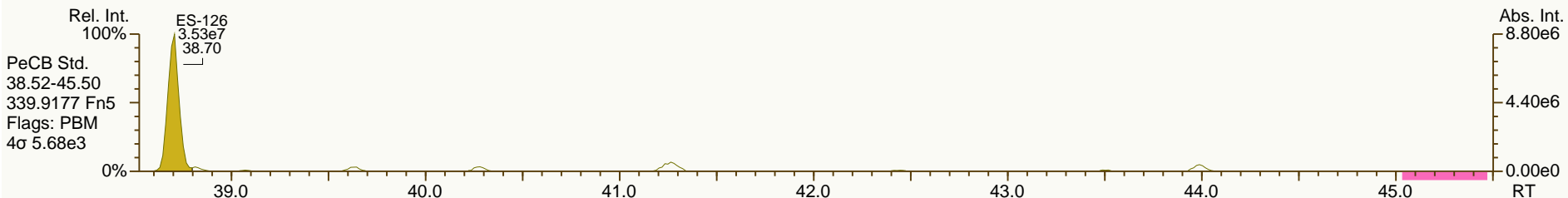
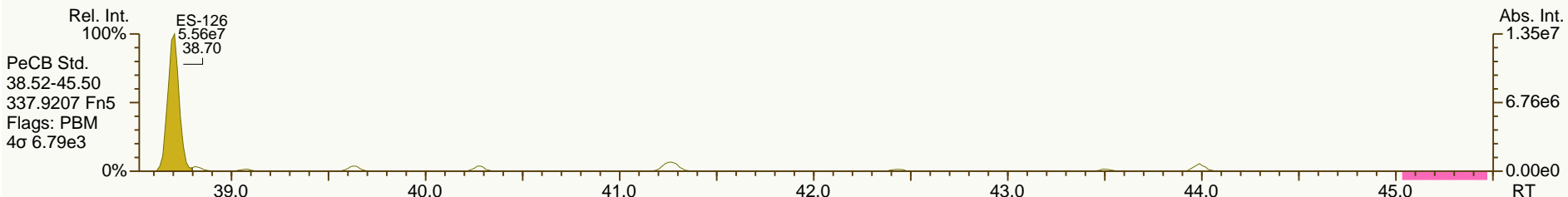
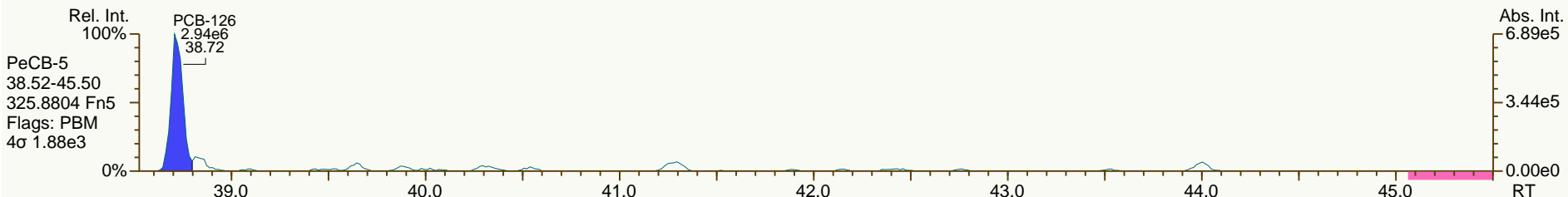
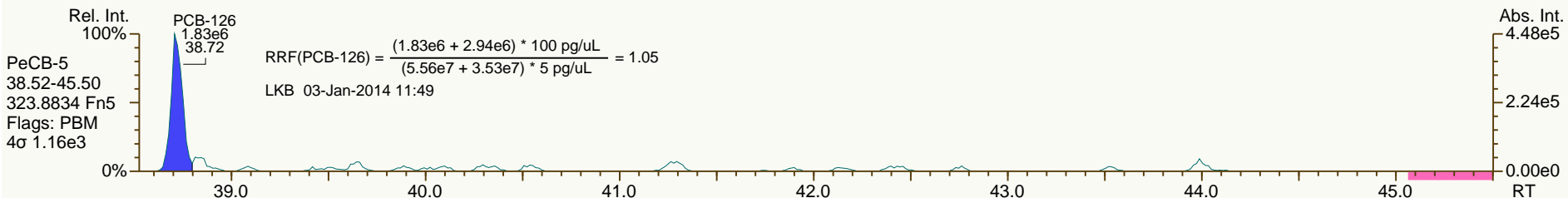
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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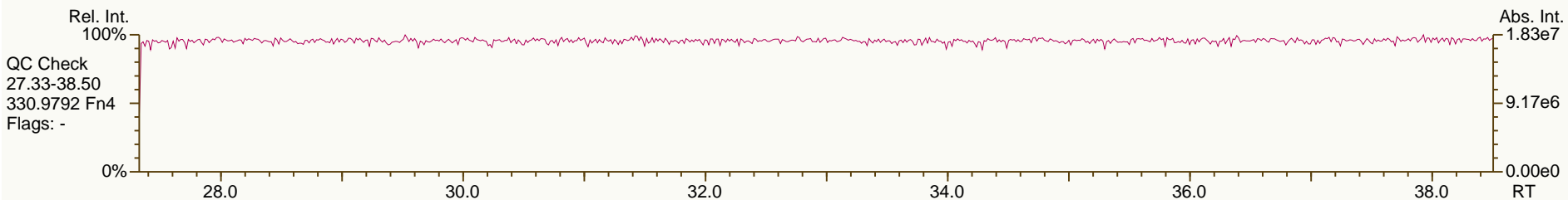
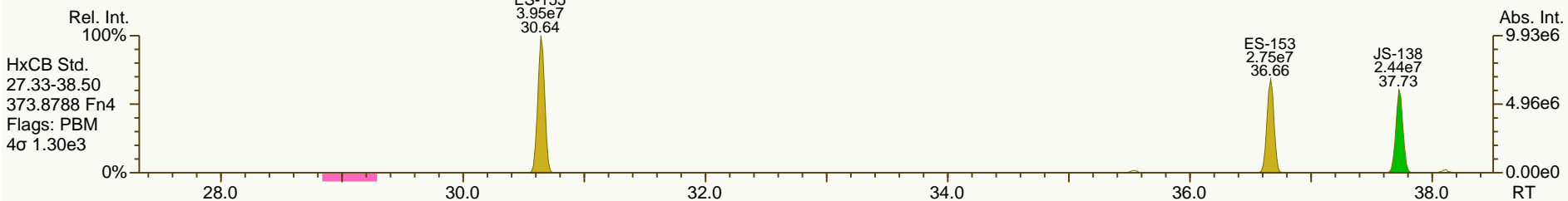
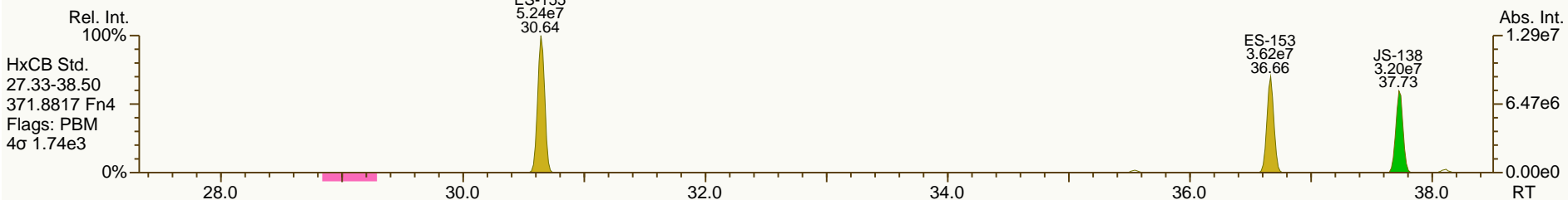
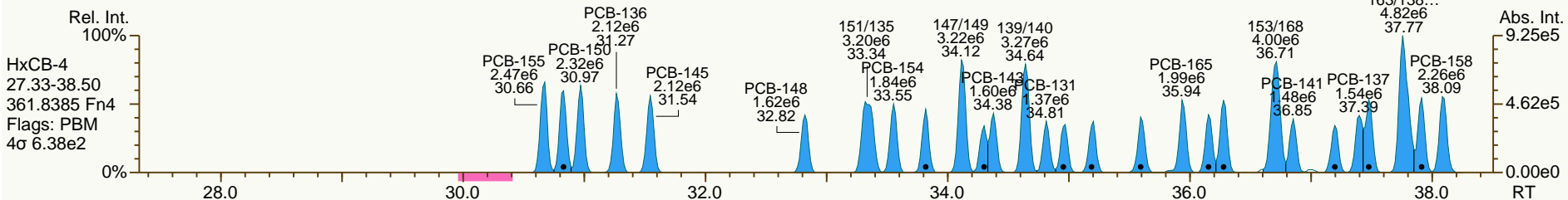
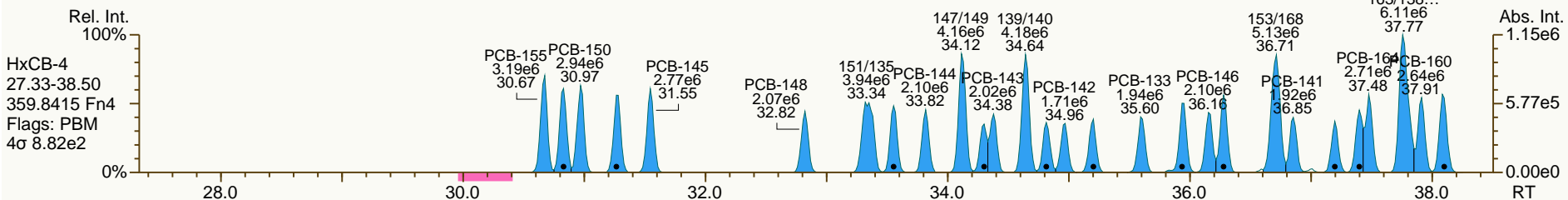
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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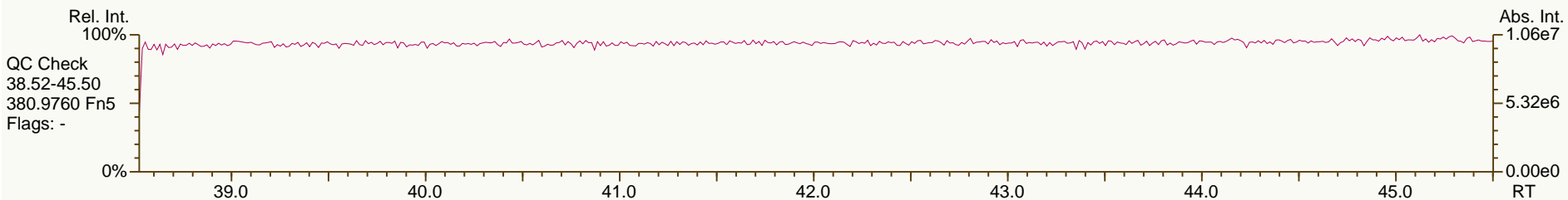
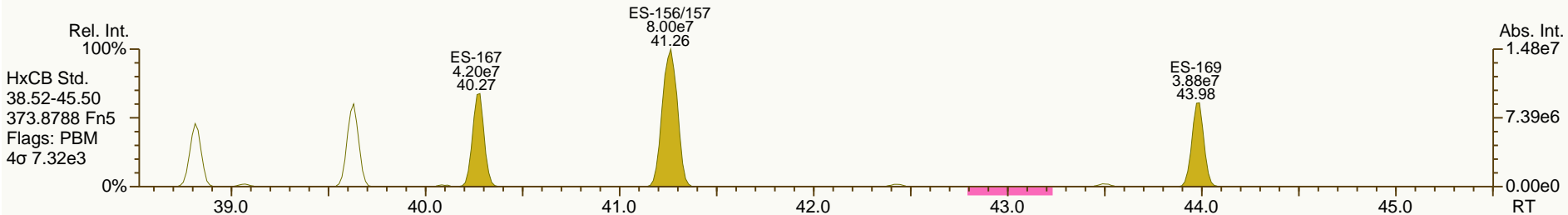
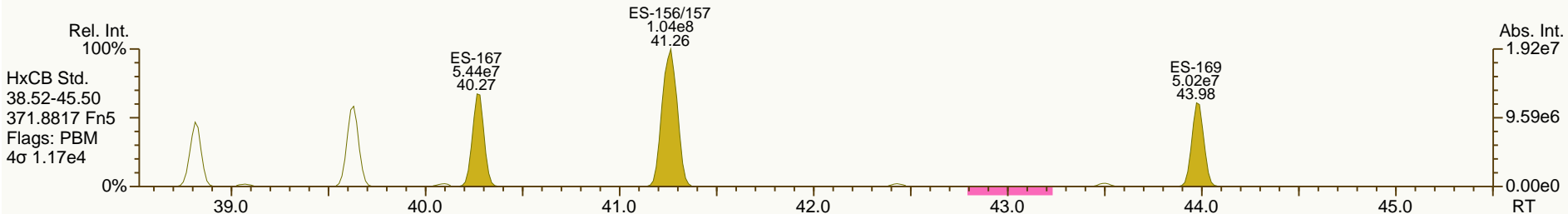
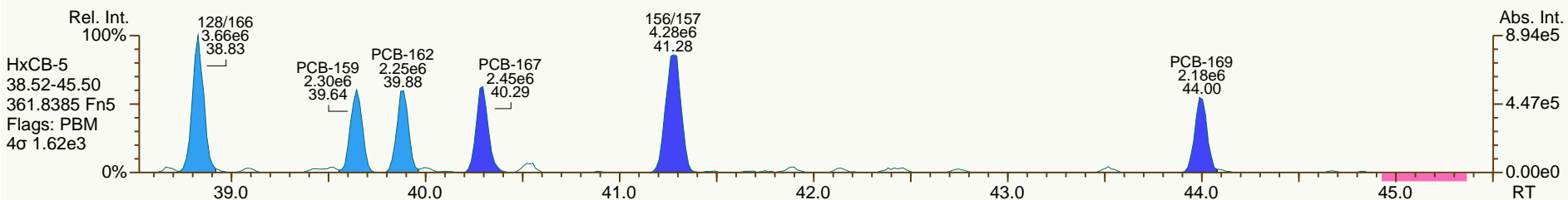
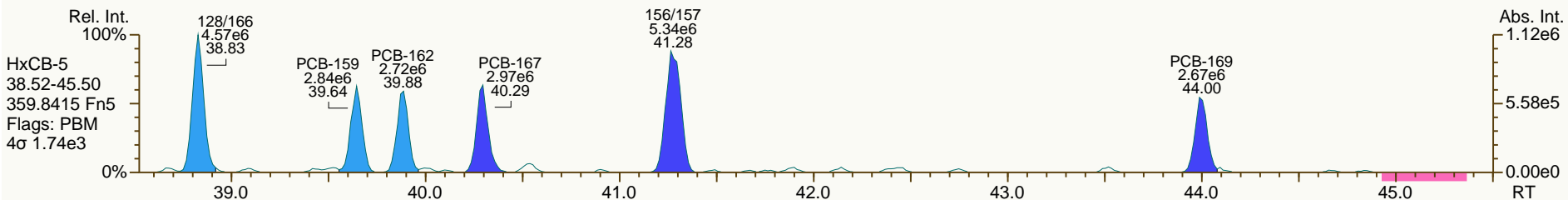
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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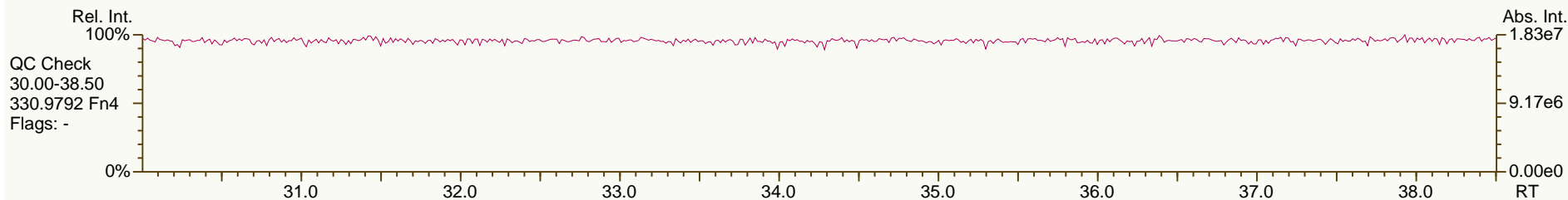
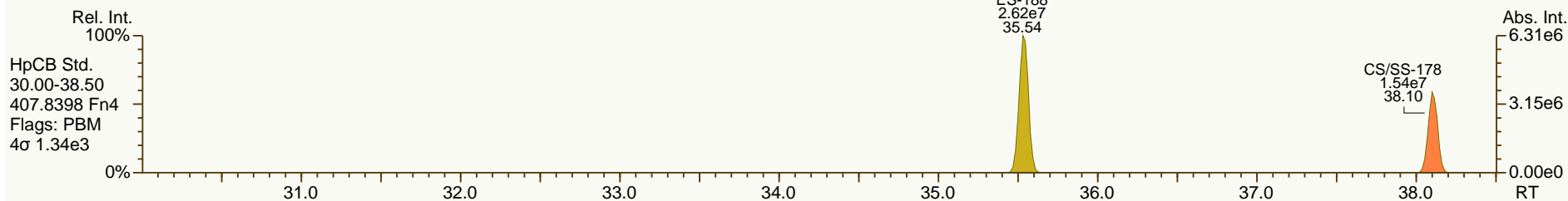
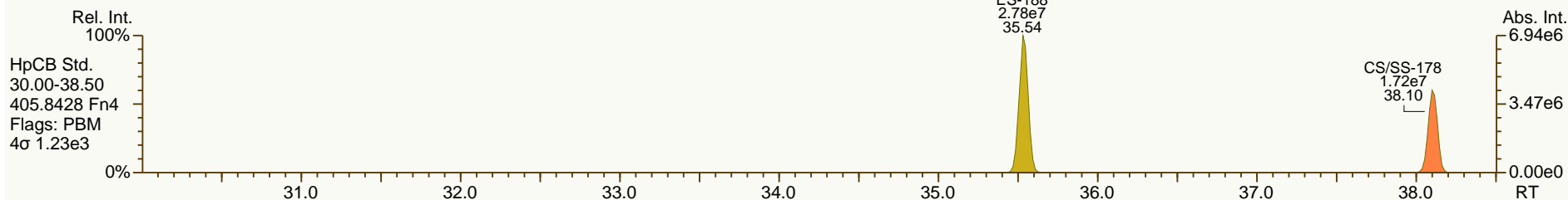
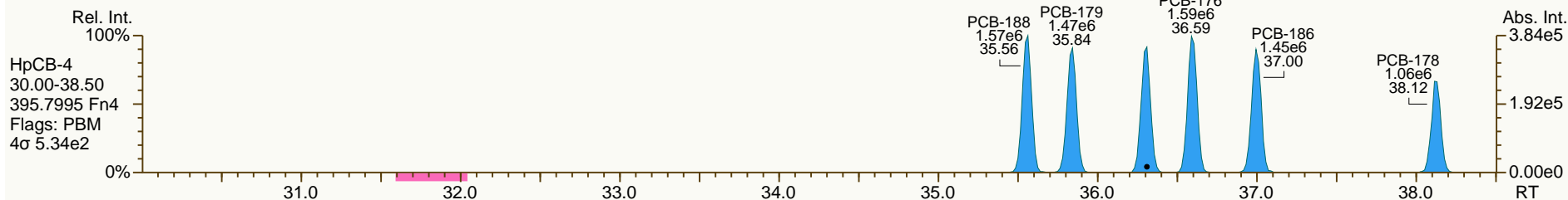
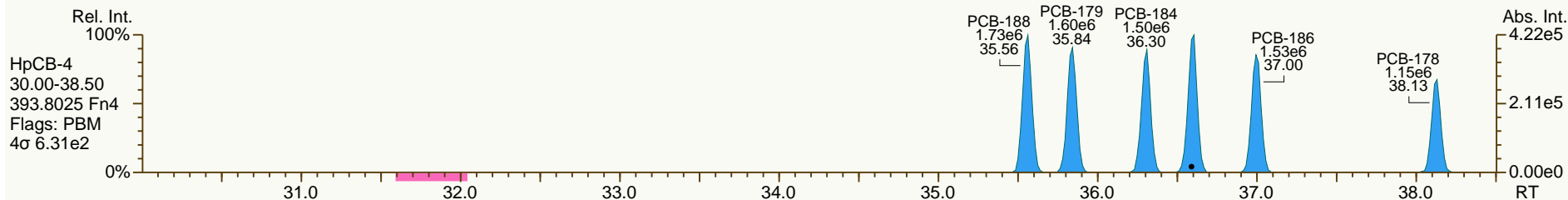
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-4  
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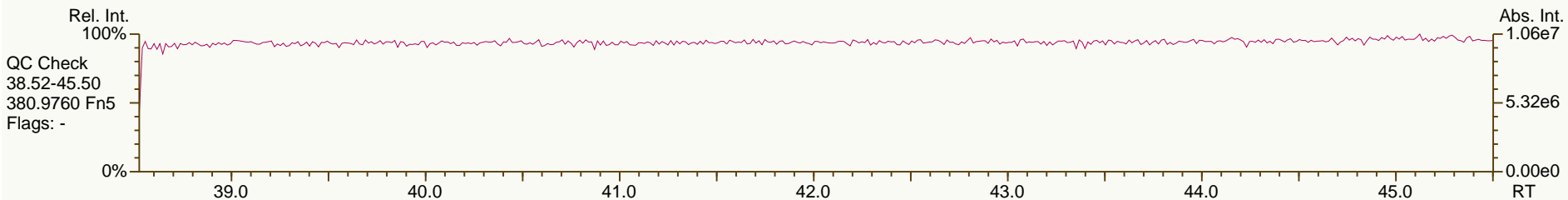
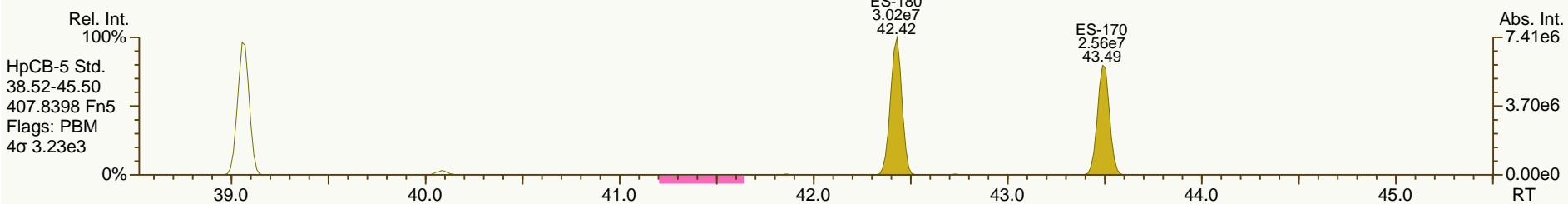
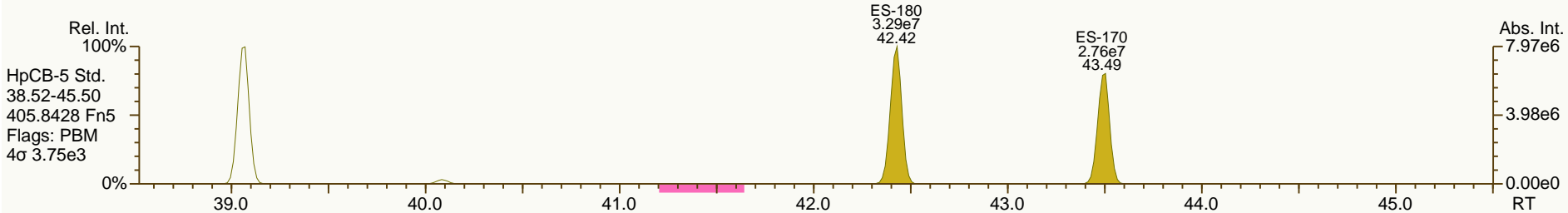
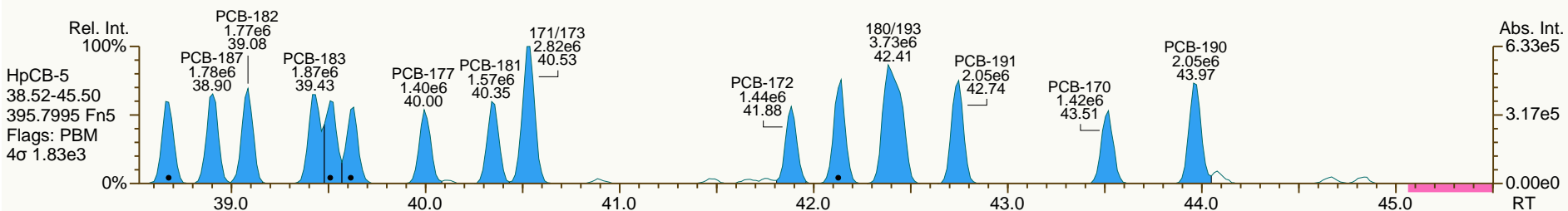
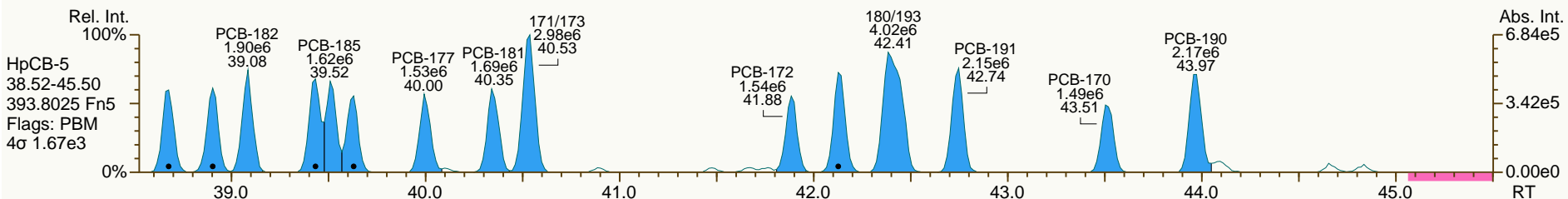




SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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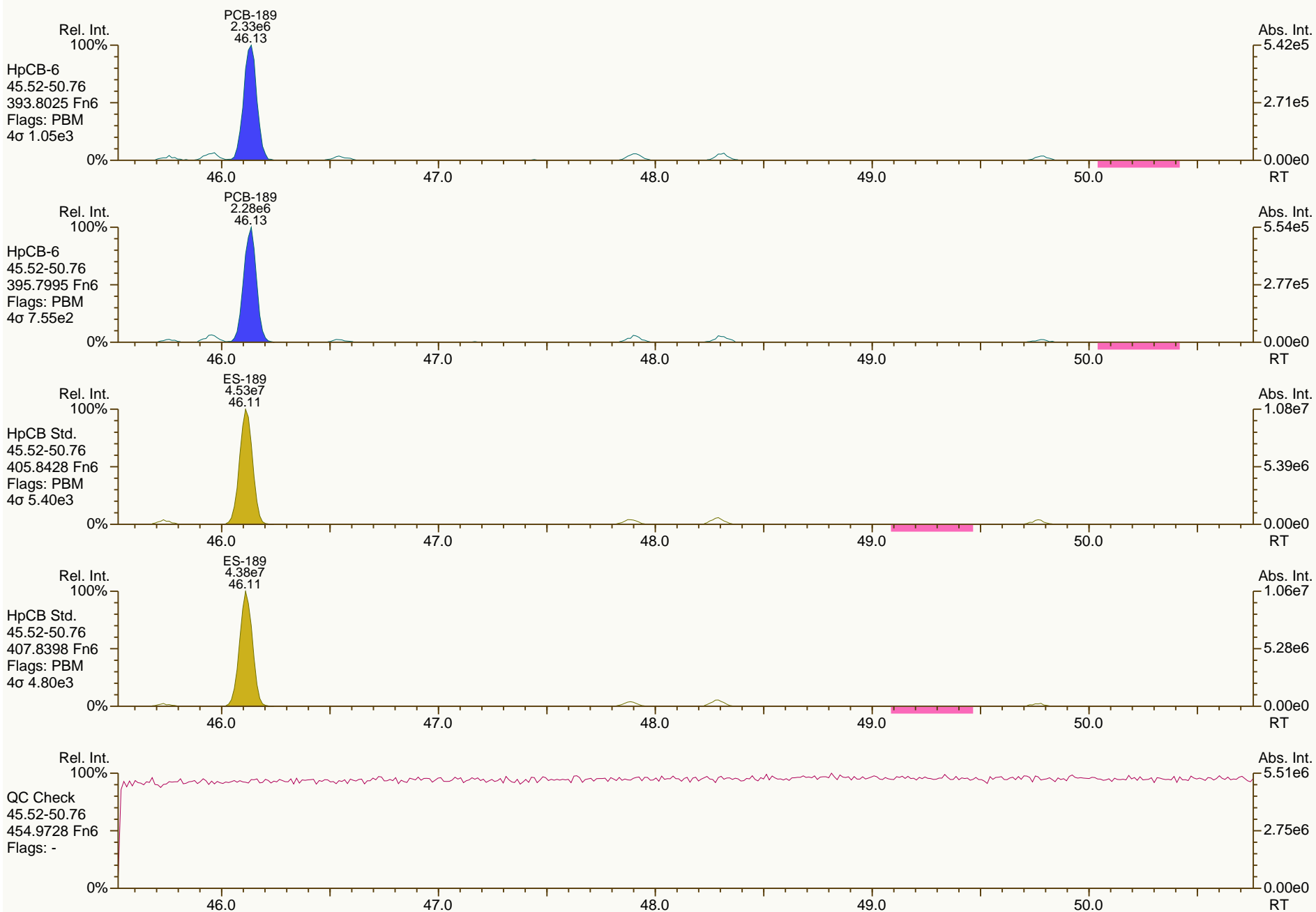
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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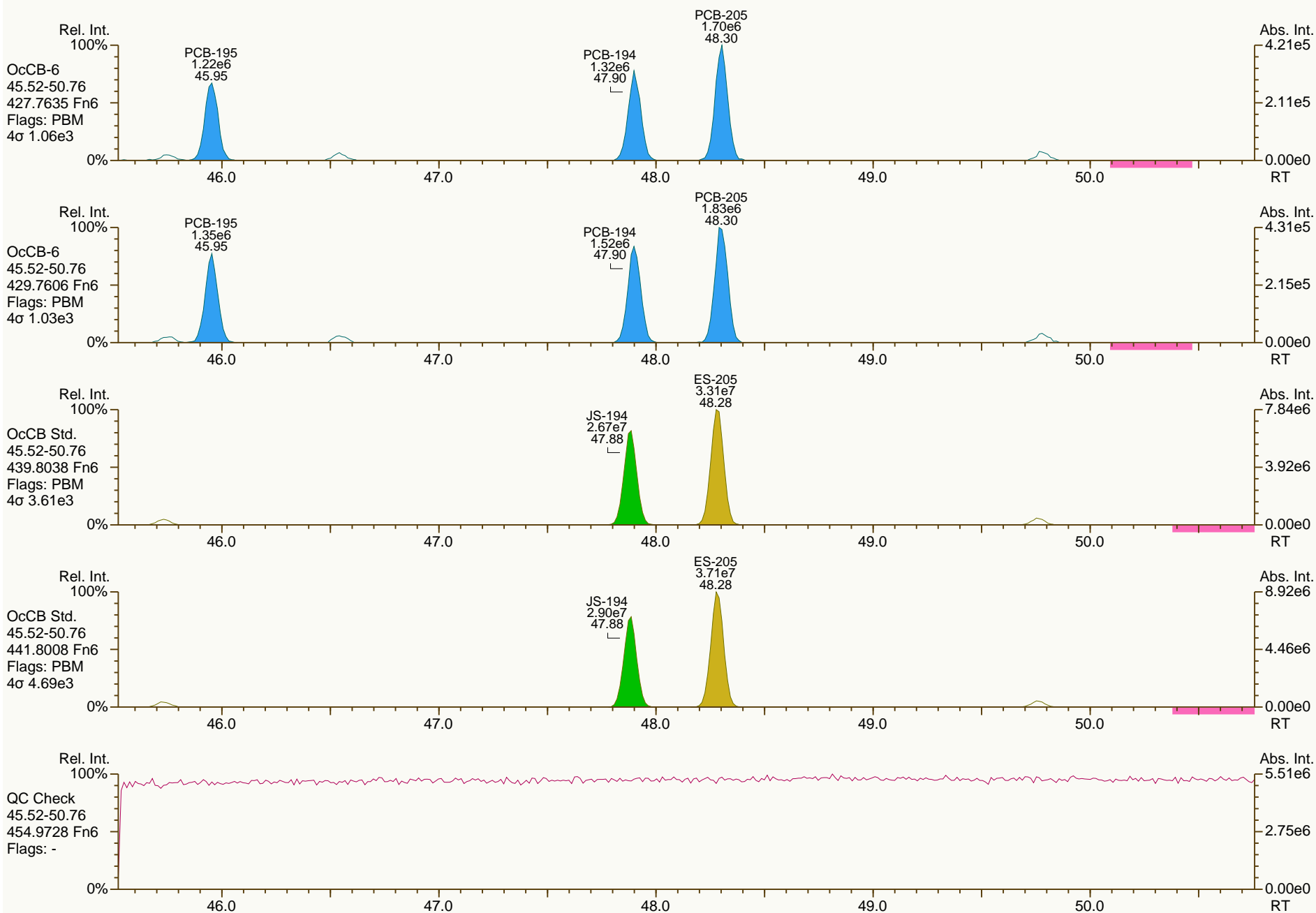
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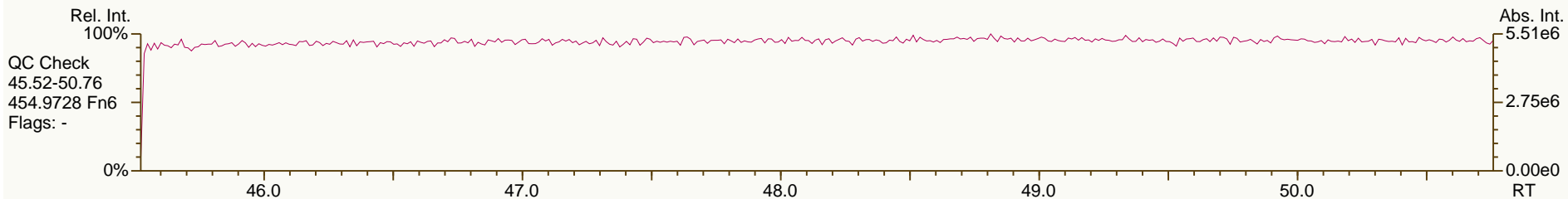
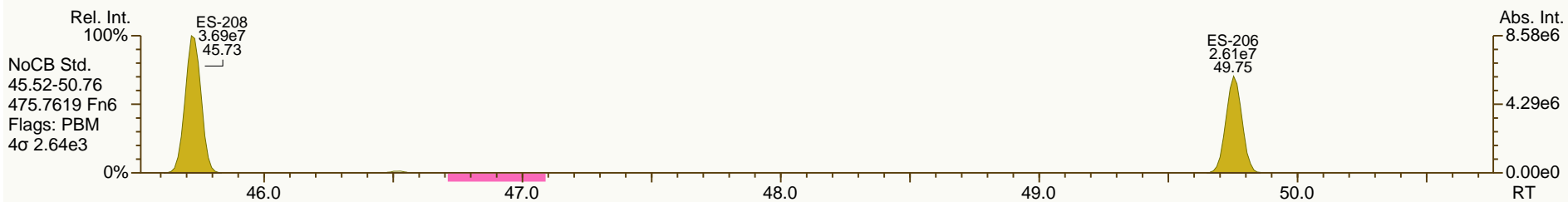
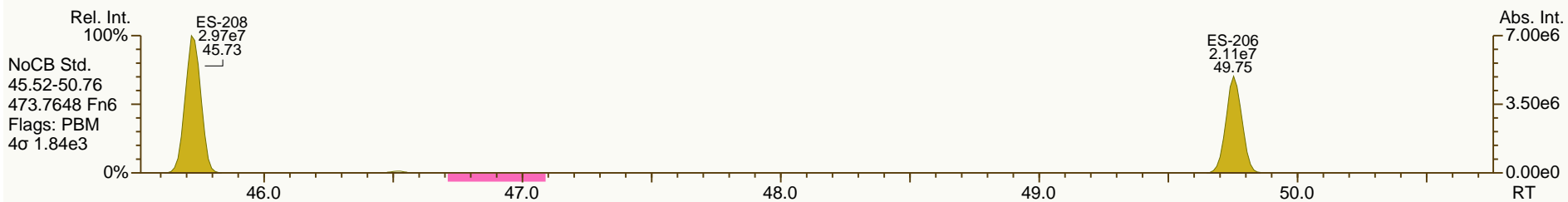
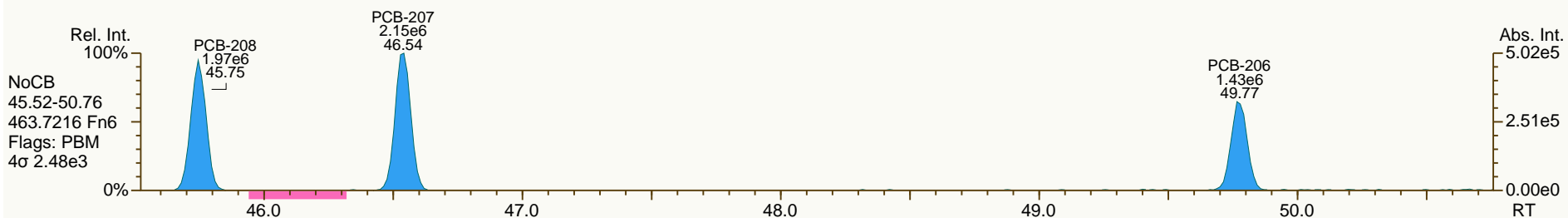
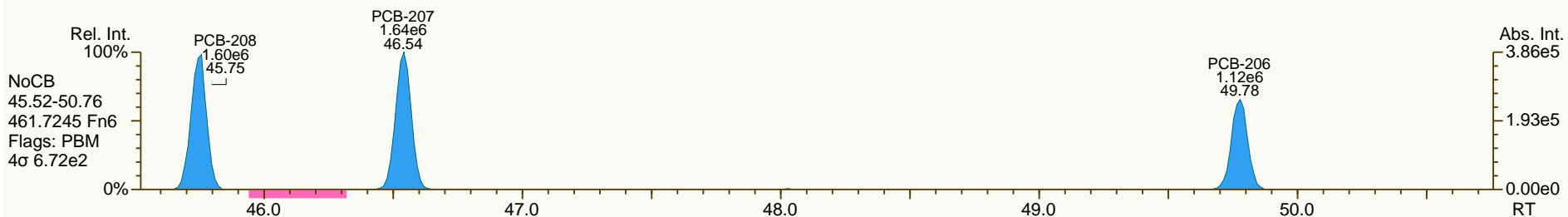
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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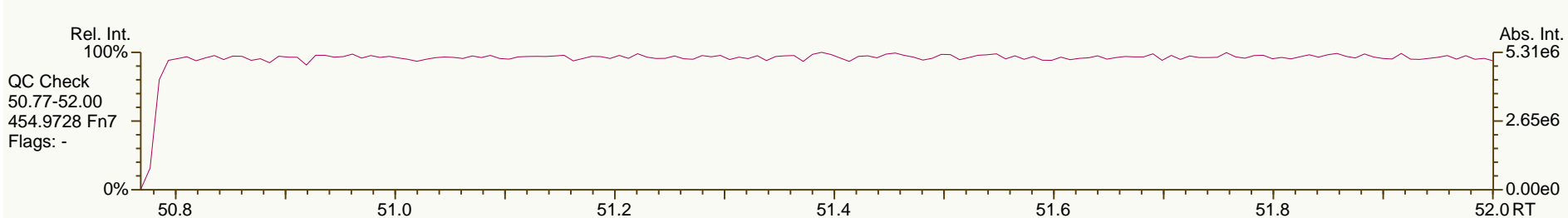
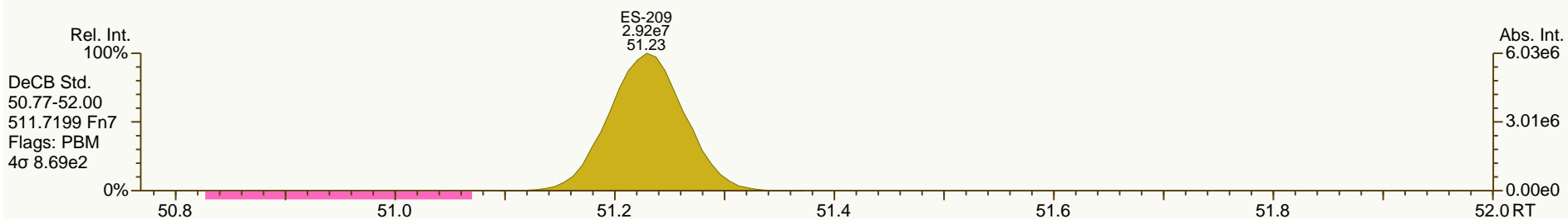
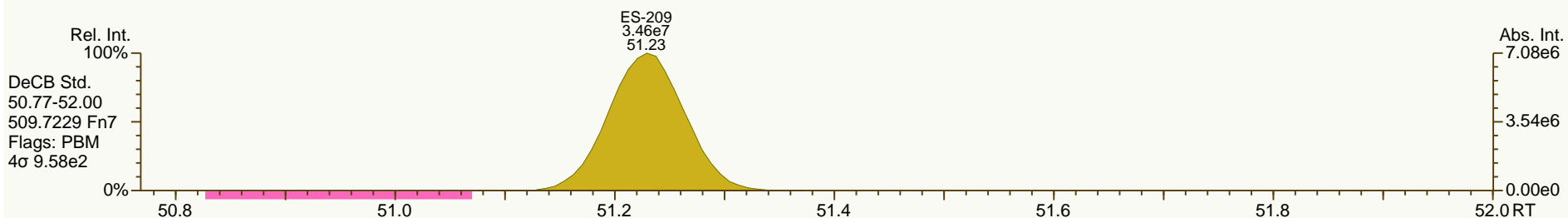
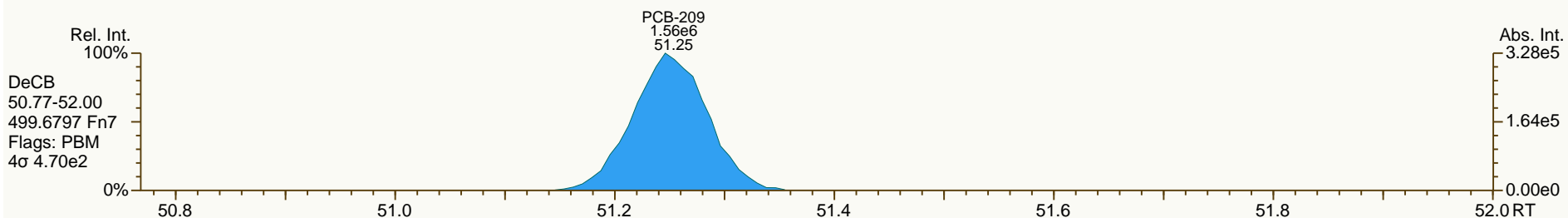
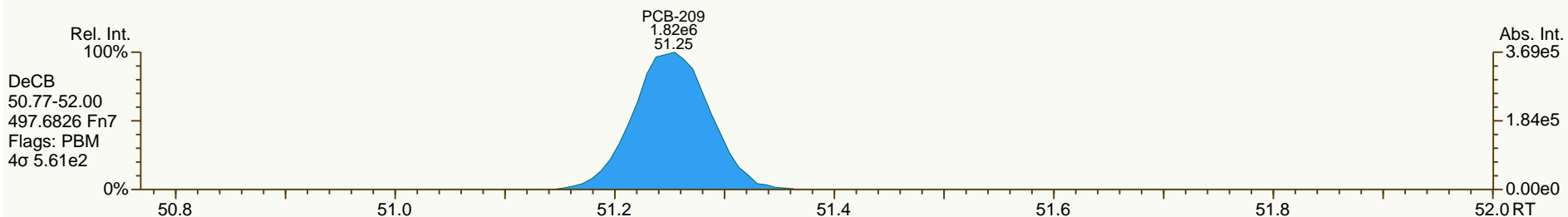
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
 User: LKB Datafile: 131220X04



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57		
Lab ID:	CS3_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.72E+07	0.78 Y	1.15	1.14	-0.9%	
PCB-81 344'5'-TeCB	32.62	6.46E+07	0.78 Y	1.12	1.12	-0.2%	
PCB-105 233'44'-PeCB	36.09	5.36E+07	0.62 Y	1.11	1.13	1.3%	
PCB-114 2344'5'-PeCB	35.55	5.90E+07	0.63 Y	1.20	1.23	2.2%	
PCB-118 23'44'5'-PeCB	35.08	5.55E+07	0.62 Y	1.19	1.22	2.5%	
PCB-123 23'44'5'-PeCB	34.80	5.75E+07	0.62 Y	1.21	1.23	1.5%	
PCB-126 33'44'5'-PeCB	38.71	4.48E+07	0.62 Y	1.11	1.12	1.1%	
PCB-156/157 ...-HxCB	41.26	9.35E+07	1.23 Y	1.10	1.12	2.3%	
PCB-167 23'44'55'-HxCB	40.28	5.18E+07	1.21 Y	1.16	1.20	2.9%	
PCB-169 33'44'55'-HxCB	43.98	4.66E+07	1.24 Y	1.12	1.16	2.8%	
PCB-189 233'44'55'-HpCB	46.12	4.39E+07	1.04 Y	1.07	1.07	-0.2%	
PCB-209 DeCB	51.23	3.15E+07	1.18 Y	1.11	1.09	-2.1%	
ES PCB-1	12.02	2.19E+08	3.31 Y	1.19	1.18	-1.3%	
ES PCB-3	14.34	1.97E+08	3.36 Y	1.09	1.06	-2.5%	
ES PCB-4	14.60	9.59E+07	1.62 Y	0.52	0.52	-1.2%	
ES PCB-15	20.36	1.90E+08	1.57 Y	1.04	1.02	-1.9%	
ES PCB-19	17.72	9.32E+07	1.08 Y	0.51	0.50	-0.9%	
ES PCB-37	26.72	1.42E+08	1.09 Y	1.66	1.61	-2.9%	
ES PCB-54	20.65	7.49E+07	0.82 Y	0.86	0.85	-0.9%	
ES PCB-77	33.08	1.18E+08	0.79 Y	1.38	1.34	-2.9%	
ES PCB-81	32.60	1.16E+08	0.81 Y	1.37	1.32	-3.5%	
ES PCB-104	25.66	6.47E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.07	9.52E+07	1.57 Y	1.20	1.18	-1.7%	
ES PCB-114	35.53	9.60E+07	1.64 Y	1.22	1.19	-2.1%	
ES PCB-118	35.06	9.11E+07	1.63 Y	1.16	1.13	-2.4%	
ES PCB-123	34.78	9.36E+07	1.59 Y	1.19	1.16	-2.1%	
ES PCB-126	38.69	8.01E+07	1.60 Y	1.03	0.99	-3.2%	
ES PCB-153	36.65	5.89E+07	1.29 Y	1.11	1.10	-1.2%	
ES PCB-155	30.63	8.37E+07	1.30 Y	1.59	1.56	-1.6%	
ES PCB-156/157	41.24	1.67E+08	1.28 Y	1.60	1.56	-2.7%	
ES PCB-167	40.26	8.66E+07	1.28 Y	1.67	1.62	-3.0%	
ES PCB-169	43.96	8.06E+07	1.28 Y	1.56	1.51	-3.2%	
ES PCB-170	43.48	4.93E+07	1.09 Y	0.95	0.95	-0.1%	
ES PCB-180	42.41	5.80E+07	1.09 Y	1.14	1.11	-2.2%	
ES PCB-188	35.52	4.92E+07	1.11 Y	0.94	0.92	-2.1%	
ES PCB-189	46.10	8.18E+07	1.01 Y	1.58	1.57	-0.9%	
ES PCB-202	40.07	5.16E+07	0.93 Y	0.97	0.97	-0.5%	
ES PCB-205	48.27	6.45E+07	0.89 Y	1.24	1.24	-0.6%	
ES PCB-206	49.74	4.32E+07	0.80 Y	0.83	0.83	-0.1%	
ES PCB-208	45.71	6.09E+07	0.80 Y	1.17	1.17	-0.5%	
ES PCB-209	51.21	5.77E+07	1.21 Y	1.11	1.11	-0.3%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 18:04							
Datafile:	131220X05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
SS PCB-28	23.15	1.59E+08	1.09 Y	1.11	1.12	1.0%		
SS PCB-111	33.09	9.83E+07	1.61 Y	1.03	1.05	2.1%		
SS PCB-178	38.09	3.00E+07	1.10 Y	0.62	0.61	-1.7%		
CS PCB-28	23.15	1.59E+08	1.09 Y	1.85	1.81	-1.8%		
CS PCB-111	33.09	9.83E+07	1.61 Y	1.22	1.22	0.0%		
CS PCB-178	38.09	3.00E+07	1.10 Y	0.58	0.56	-3.7%		
JS PCB-9	16.60	1.86E+08	1.55 Y	-	-	-		
JS PCB-52	24.78	8.78E+07	0.82 Y	-	-	-		
JS PCB-101	30.80	8.05E+07	1.58 Y	-	-	-		
JS PCB-138	37.72	5.35E+07	1.28 Y	-	-	-		
JS PCB-194	47.87	5.22E+07	0.91 Y	-	-	-		
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%		
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%		
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%		
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%		
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%		
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%		
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%		
PCB-104 22'466'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%		
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%		
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%		
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%		
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%		
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%		
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%		



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%	
PCB-2 3-MoCB	14.17	1.07E+08	3.26 Y	1.03	1.08	4.8%	
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%	
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%	
PCB-10 26'-DiCB	14.80	9.81E+07	1.61 Y	1.98	2.05	3.2%	
PCB-9 25'-DiCB	16.62	9.11E+07	1.64 Y	0.95	0.96	1.6%	
PCB-7 24'-DiCB	16.78	1.03E+08	1.63 Y	1.05	1.09	4.1%	
PCB-6 23'-DiCB	17.01	9.79E+07	1.63 Y	1.00	1.03	3.6%	
PCB-5 23'-DiCB	17.32	9.70E+07	1.62 Y	1.00	1.02	2.0%	
PCB-8 24'-DiCB	17.44	9.83E+07	1.64 Y	1.03	1.04	0.3%	
PCB-14 35'-DiCB	19.01	1.14E+08	1.62 Y	1.18	1.20	1.9%	
PCB-11 33'-DiCB	19.80	9.79E+07	1.64 Y	1.01	1.03	2.0%	
PCB-13/12 34'/34'-DiCB	20.09	1.94E+08	1.63 Y	0.99	1.02	3.1%	
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%	
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%	
PCB-30/18 246/22'5'-TrCB	19.51	1.46E+08	1.05 Y	1.54	1.57	1.9%	
PCB-17 22'4'-TrCB	19.91	6.21E+07	1.05 Y	1.31	1.33	2.2%	
PCB-27 23'6'-TrCB	20.11	8.52E+07	1.06 Y	1.82	1.83	0.7%	
PCB-24 236'-TrCB	20.24	8.13E+07	1.04 Y	1.72	1.74	1.2%	
PCB-16 22'3'-TrCB	20.34	4.64E+07	1.06 Y	1.01	1.00	-1.0%	
PCB-32 24'6'-TrCB	20.82	8.97E+07	1.06 Y	1.92	1.93	0.3%	
PCB-34 23'5'-TrCB	21.98	8.15E+07	0.99 Y	1.14	1.15	1.4%	
PCB-23 235'-TrCB	22.13	8.33E+07	0.99 Y	1.16	1.18	1.8%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.69E+08	0.99 Y	1.17	1.20	2.1%	
PCB-25 23'4'-TrCB	22.61	8.39E+07	0.98 Y	1.16	1.18	2.3%	
PCB-31 24'5'-TrCB	22.89	8.91E+07	0.99 Y	1.23	1.26	2.6%	
PCB-28/20 244'/233'-TrCB	23.18	1.65E+08	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.36	1.71E+08	0.97 Y	1.17	1.21	2.8%	
PCB-22 234'-TrCB	23.74	7.72E+07	0.98 Y	1.08	1.09	0.9%	
PCB-36 33'5'-TrCB	25.13	8.43E+07	0.99 Y	1.17	1.19	1.6%	
PCB-39 34'5'-TrCB	25.45	8.82E+07	0.99 Y	1.21	1.24	2.8%	
PCB-38 345'-TrCB	25.99	8.09E+07	0.99 Y	1.10	1.14	3.4%	
PCB-35 33'4'-TrCB	26.38	7.62E+07	0.99 Y	1.04	1.08	3.5%	
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%	
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%	
PCB-50/53 22'46'/22'56'-TeCB	22.67	1.04E+08	0.79 Y	0.88	0.90	2.6%	
PCB-45 22'36'-TeCB	23.26	4.29E+07	0.78 Y	0.77	0.74	-3.3%	
PCB-51 22'46'-TeCB	23.33	5.41E+07	0.79 Y	0.86	0.93	8.7%	
PCB-46 22'36'-TeCB	23.54	4.19E+07	0.78 Y	0.70	0.72	3.5%	
PCB-52 22'55'-TeCB	24.80	4.97E+07	0.79 Y	0.84	0.86	1.6%	
PCB-73 23'5'6'-TeCB	24.93	6.50E+07	0.79 Y	1.11	1.12	0.9%	
PCB-43 22'35'-TeCB	25.03	4.44E+07	0.79 Y	0.71	0.77	7.9%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.22E+08	0.79 Y	1.02	1.05	3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.51	5.03E+07	0.79 Y	0.84	0.87	3.5%	
PCB-44/47/65 ...-TeCB	25.73	1.61E+08	0.79 Y	0.90	0.93	2.8%	
PCB-59/62/75 ...-TeCB	26.01	2.11E+08	0.79 Y	1.17	1.21	4.0%	
PCB-42 22'34'-TeCB	26.17	4.56E+07	0.79 Y	0.76	0.79	3.2%	
PCB-41 22'34'-TeCB	26.51	4.24E+07	0.78 Y	0.69	0.73	5.4%	
PCB-71/40 23'4'6/22'33'-TeCB	26.60	1.01E+08	0.80 Y	0.86	0.87	1.7%	
PCB-64 23'4'6'-TeCB	26.80	7.33E+07	0.79 Y	1.22	1.27	3.7%	
PCB-72 23'55'-TeCB	27.52	7.21E+07	0.77 Y	1.21	1.25	3.0%	
PCB-68 23'45'-TeCB	27.78	7.57E+07	0.79 Y	1.28	1.31	2.4%	
PCB-57 23'35'-TeCB	28.15	6.97E+07	0.78 Y	1.16	1.20	3.4%	
PCB-58 23'35'-TeCB	28.35	6.93E+07	0.79 Y	1.18	1.20	1.6%	
PCB-67 23'45'-TeCB	28.51	7.46E+07	0.78 Y	1.26	1.29	2.3%	
PCB-63 23'45'-TeCB	28.74	7.70E+07	0.78 Y	1.30	1.33	2.5%	
PCB-61/70/74/76 ...-TeCB	29.03	2.84E+08	0.78 Y	1.20	1.23	2.3%	
PCB-66 23'44'-TeCB	29.32	6.58E+07	0.78 Y	1.10	1.14	3.1%	
PCB-55 23'34'-TeCB	29.46	6.61E+07	0.78 Y	1.12	1.14	1.9%	
PCB-56 23'34'-TeCB	29.90	6.57E+07	0.78 Y	1.11	1.13	2.2%	
PCB-60 23'44'-TeCB	30.09	6.65E+07	0.78 Y	1.14	1.15	1.2%	
PCB-80 33'55'-TeCB	30.42	7.84E+07	0.79 Y	1.31	1.35	3.1%	
PCB-79 33'45'-TeCB	31.75	7.58E+07	0.78 Y	1.31	1.31	0.3%	
PCB-78 33'45'-TeCB	32.24	6.37E+07	0.79 Y	1.06	1.10	3.6%	
PCB-104 22'46'6'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%	
PCB-96 22'36'6'-PeCB	26.00	4.07E+07	0.65 Y	1.23	1.26	2.3%	
PCB-103 22'45'6'-PeCB	27.69	4.49E+07	0.62 Y	0.93	0.96	3.1%	
PCB-94 22'35'6'-PeCB	27.89	3.89E+07	0.62 Y	0.80	0.83	3.9%	
PCB-95 22'35'6'-PeCB	28.27	4.15E+07	0.62 Y	0.87	0.89	2.5%	
PCB-100/93 22'44'6/22'35'6'-PeCB	28.48	8.23E+07	0.62 Y	0.86	0.88	1.9%	
PCB-102 22'45'6'-PeCB	28.59	4.80E+07	0.62 Y	0.97	1.03	6.0%	
PCB-98 22'34'6'-PeCB	28.66	3.74E+07	0.62 Y	0.76	0.80	5.5%	
PCB-88 22'34'6'-PeCB	28.96	3.48E+07	0.61 Y	0.80	0.74	-6.9%	
PCB-91 22'34'6'-PeCB	29.03	4.85E+07	0.62 Y	0.94	1.04	9.9%	
PCB-84 22'33'6'-PeCB	29.22	3.51E+07	0.62 Y	0.72	0.75	4.8%	
PCB-89 22'34'6'-PeCB	29.64	3.72E+07	0.61 Y	0.76	0.80	4.3%	
PCB-121 23'45'6'-PeCB	29.99	5.76E+07	0.62 Y	1.20	1.23	2.6%	
PCB-92 22'35'5'-PeCB	30.31	3.91E+07	0.61 Y	0.82	0.84	1.9%	
PCB-113/90/101 ...-PeCB	30.79	1.40E+08	0.62 Y	0.99	1.00	1.0%	
PCB-83 22'33'5'-PeCB	31.23	3.39E+07	0.62 Y	0.71	0.72	1.2%	
PCB-99 22'44'5'-PeCB	31.33	4.26E+07	0.62 Y	0.92	0.91	-1.2%	
PCB-112 23'3'5'6'-PeCB	31.43	5.82E+07	0.62 Y	1.17	1.24	6.6%	
PCB-108/119/86/97/125...-PeCB	31.78	2.85E+08	0.62 Y	0.98	1.01	3.6%	
PCB-117 23'4'5'6'-PeCB	32.31	5.48E+07	0.62 Y	1.14	1.17	2.9%	
PCB-116/85 23'45'6/22'34'4'-PeCB	32.41	8.79E+07	0.63 Y	0.94	0.94	-0.1%	
PCB-110 23'3'4'6'-PeCB	32.52	5.86E+07	0.62 Y	1.12	1.25	12.0%	

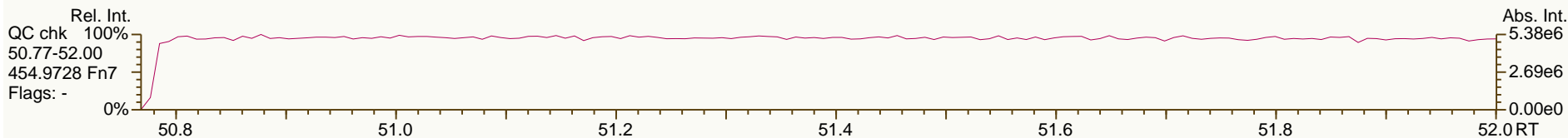
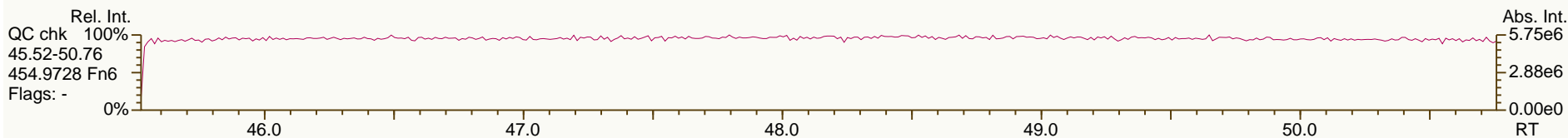
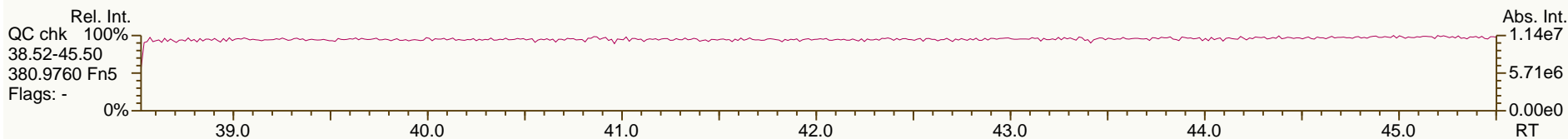
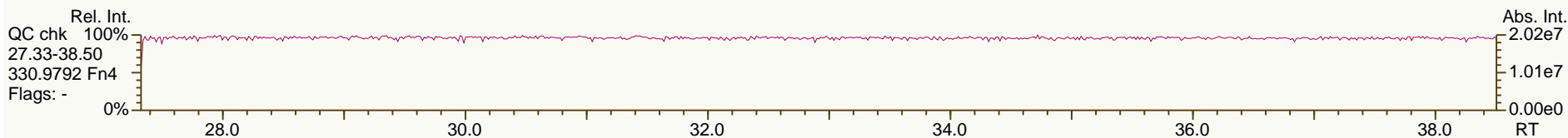
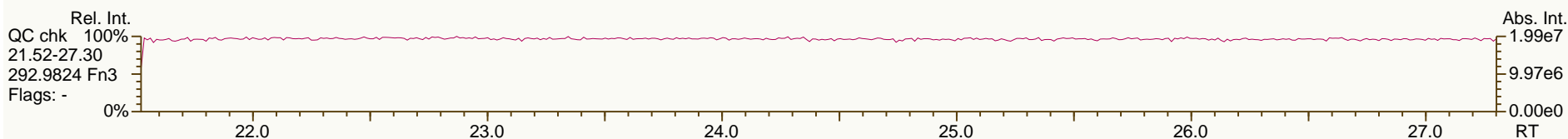
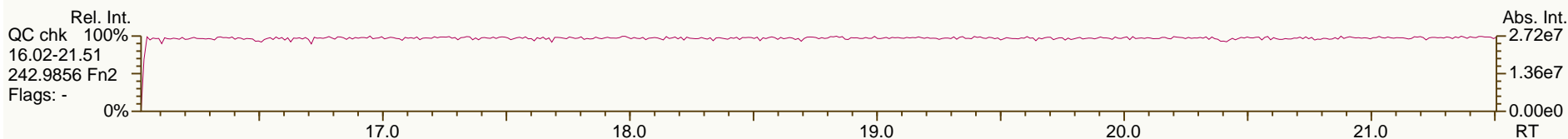
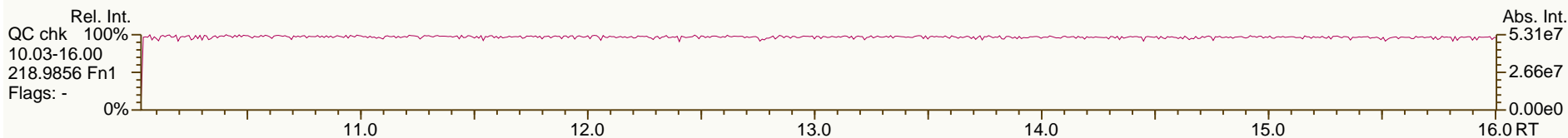
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.61	5.15E+07	0.62 Y	1.16	1.10	-5.0%	
PCB-82 22'33'4-PeCB	32.80	3.29E+07	0.62 Y	0.70	0.70	0.8%	
PCB-111 233'55'-PeCB	33.12	5.86E+07	0.62 Y	1.22	1.25	2.6%	
PCB-120 23'455'-PeCB	33.52	5.80E+07	0.62 Y	1.21	1.24	2.4%	
PCB-107/124 ...-PeCB	34.49	1.06E+08	0.62 Y	1.10	1.14	3.4%	
PCB-109 233'46-PeCB	34.69	6.23E+07	0.62 Y	1.25	1.33	6.3%	
PCB-106 233'45-PeCB	34.91	5.24E+07	0.62 Y	1.11	1.12	1.3%	
PCB-122 233'4'5'-PeCB	35.38	4.86E+07	0.62 Y	0.99	1.01	1.9%	
PCB-127 33'455'-PeCB	37.33	5.29E+07	0.62 Y	1.10	1.11	1.5%	
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%	
PCB-152 22'3566'-HxCB	30.81	4.87E+07	1.29 Y	1.17	1.16	-0.8%	
PCB-150 22'34'66'-HxCB	30.96	5.03E+07	1.27 Y	1.18	1.20	2.2%	
PCB-136 22'33'66'-HxCB	31.26	4.58E+07	1.28 Y	1.07	1.09	2.6%	
PCB-145 22'3466'-HxCB	31.53	4.68E+07	1.28 Y	1.11	1.12	0.3%	
PCB-148 22'34'56'-HxCB	32.81	3.50E+07	1.29 Y	1.18	1.19	0.6%	
PCB-151/135 ...-HxCB	33.33	6.71E+07	1.28 Y	1.14	1.14	0.1%	
PCB-154 22'44'56'-HxCB	33.54	3.92E+07	1.27 Y	1.34	1.33	-0.9%	
PCB-144 22'345'6-HxCB	33.80	3.50E+07	1.28 Y	1.18	1.19	0.5%	
PCB-147/149 ...-HxCB	34.11	6.95E+07	1.26 Y	1.18	1.18	0.4%	
PCB-134 22'33'56-HxCB	34.28	2.62E+07	1.29 Y	0.92	0.89	-3.9%	
PCB-143 22'3456'-HxCB	34.36	3.47E+07	1.29 Y	1.13	1.18	4.3%	
PCB-139/140 ...-HxCB	34.63	7.06E+07	1.29 Y	1.21	1.20	-0.5%	
PCB-131 22'33'46-HxCB	34.80	3.02E+07	1.28 Y	1.03	1.03	0.0%	
PCB-142 22'3456-HxCB	34.95	2.97E+07	1.27 Y	0.99	1.01	1.8%	
PCB-132 22'33'46'-HxCB	35.18	3.05E+07	1.29 Y	1.03	1.03	0.4%	
PCB-133 22'33'55'-HxCB	35.59	3.33E+07	1.27 Y	1.13	1.13	-0.2%	
PCB-165 233'55'6-HxCB	35.93	4.19E+07	1.29 Y	1.41	1.42	1.0%	
PCB-146 22'34'55'-HxCB	36.14	3.49E+07	1.26 Y	1.20	1.19	-1.3%	
PCB-161 233'45'6-HxCB	36.26	4.54E+07	1.29 Y	1.52	1.54	1.3%	
PCB-153/168 ...-HxCB	36.69	8.69E+07	1.27 Y	1.46	1.48	1.3%	
PCB-141 22'3455'-HxCB	36.84	3.24E+07	1.26 Y	1.09	1.10	1.2%	
PCB-130 22'33'45'-HxCB	37.18	2.87E+07	1.26 Y	0.97	0.97	0.2%	
PCB-137 22'344'5-HxCB	37.38	3.23E+07	1.26 Y	1.16	1.10	-5.5%	
PCB-164 233'4'5'6-HxCB	37.46	4.64E+07	1.27 Y	1.50	1.58	5.2%	
PCB-163/138/129 ...-HxCB	37.76	1.04E+08	1.27 Y	1.19	1.17	-1.4%	
PCB-160 233'456-HxCB	37.89	4.57E+07	1.27 Y	1.52	1.55	2.4%	
PCB-158 233'44'6-HxCB	38.08	4.80E+07	1.29 Y	1.66	1.63	-1.8%	
PCB-128/166 ...-HxCB	38.81	7.91E+07	1.23 Y	0.90	0.91	1.5%	
PCB-159 233'455'-HxCB	39.63	4.91E+07	1.23 Y	1.11	1.13	1.7%	
PCB-162 233'4'55'-HxCB	39.87	4.82E+07	1.22 Y	1.07	1.11	3.8%	
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%	
PCB-179 22'33'566'-HpCB	35.82	2.89E+07	1.08 Y	1.16	1.17	0.9%	
PCB-184 22'344'66'-HpCB	36.29	2.78E+07	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.58	3.08E+07	1.08 Y	1.23	1.25	1.6%	
PCB-186 22'34566'-HpCB	36.98	2.82E+07	1.09 Y	1.13	1.14	1.7%	
PCB-178 22'33'55'6'-HpCB	38.11	2.06E+07	1.08 Y	0.84	0.84	-0.7%	
PCB-175 22'33'45'6'-HpCB	38.66	3.12E+07	1.07 Y	1.07	1.08	0.3%	
PCB-187 22'34'55'6'-HpCB	38.89	3.32E+07	1.07 Y	1.14	1.15	0.7%	
PCB-182 22'344'56'-HpCB	39.07	3.55E+07	1.06 Y	1.18	1.22	4.2%	
PCB-183 22'344'5'6'-HpCB	39.42	3.70E+07	1.06 Y	1.20	1.28	6.0%	
PCB-185 22'3455'6'-HpCB	39.50	2.99E+07	1.07 Y	1.06	1.03	-2.8%	
PCB-174 22'33'456'-HpCB	39.61	2.90E+07	1.06 Y	0.99	1.00	1.1%	
PCB-177 22'33'45'6'-HpCB	39.98	2.76E+07	1.06 Y	0.95	0.95	0.0%	
PCB-181 22'344'56'-HpCB	40.33	3.21E+07	1.05 Y	1.09	1.11	1.7%	
PCB-171/173 ...-HpCB	40.52	5.60E+07	1.05 Y	0.95	0.97	1.8%	
PCB-172 22'33'455'-HpCB	41.87	2.94E+07	1.05 Y	0.99	1.02	2.7%	
PCB-192 233'455'6'-HpCB	42.12	3.83E+07	1.07 Y	1.29	1.32	2.5%	
PCB-180/193 ...-HpCB	42.39	7.38E+07	1.06 Y	1.26	1.27	1.0%	
PCB-191 233'44'5'6'-HpCB	42.73	4.06E+07	1.08 Y	1.40	1.40	0.4%	
PCB-170 22'33'44'5'-HpCB	43.50	2.83E+07	1.08 Y	1.14	1.15	1.0%	
PCB-190 233'44'56'-HpCB	43.95	4.10E+07	1.05 Y	1.66	1.66	0.2%	
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%	
PCB-201 22'33'45'66'-OcCB	40.88	3.19E+07	0.91 Y	1.22	1.24	1.2%	
PCB-204 22'344'566'-OcCB	41.46	2.88E+07	0.93 Y	1.12	1.12	0.0%	
PCB-197 22'33'44'66'-OcCB	41.65	2.98E+07	0.91 Y	1.19	1.15	-3.2%	
PCB-200 22'33'4566'-OcCB	41.73	3.01E+07	0.93 Y	1.11	1.16	5.1%	
PCB-198/199 ...-OcCB	44.06	4.14E+07	0.91 Y	0.81	0.80	-0.8%	
PCB-196 22'33'44'56'-OcCB	44.64	2.18E+07	0.91 Y	0.83	0.84	1.1%	
PCB-203 22'344'55'6'-OcCB	44.81	2.26E+07	0.91 Y	0.87	0.88	0.2%	
PCB-195 22'33'44'56'-OcCB	45.94	2.41E+07	0.93 Y	0.77	0.75	-2.5%	
PCB-194 22'33'44'55'-OcCB	47.89	2.69E+07	0.91 Y	0.84	0.84	-0.9%	
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%	
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%	
PCB-207 22'33'44'566'-NoCB	46.52	3.65E+07	0.78 Y	1.19	1.20	0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%	

SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

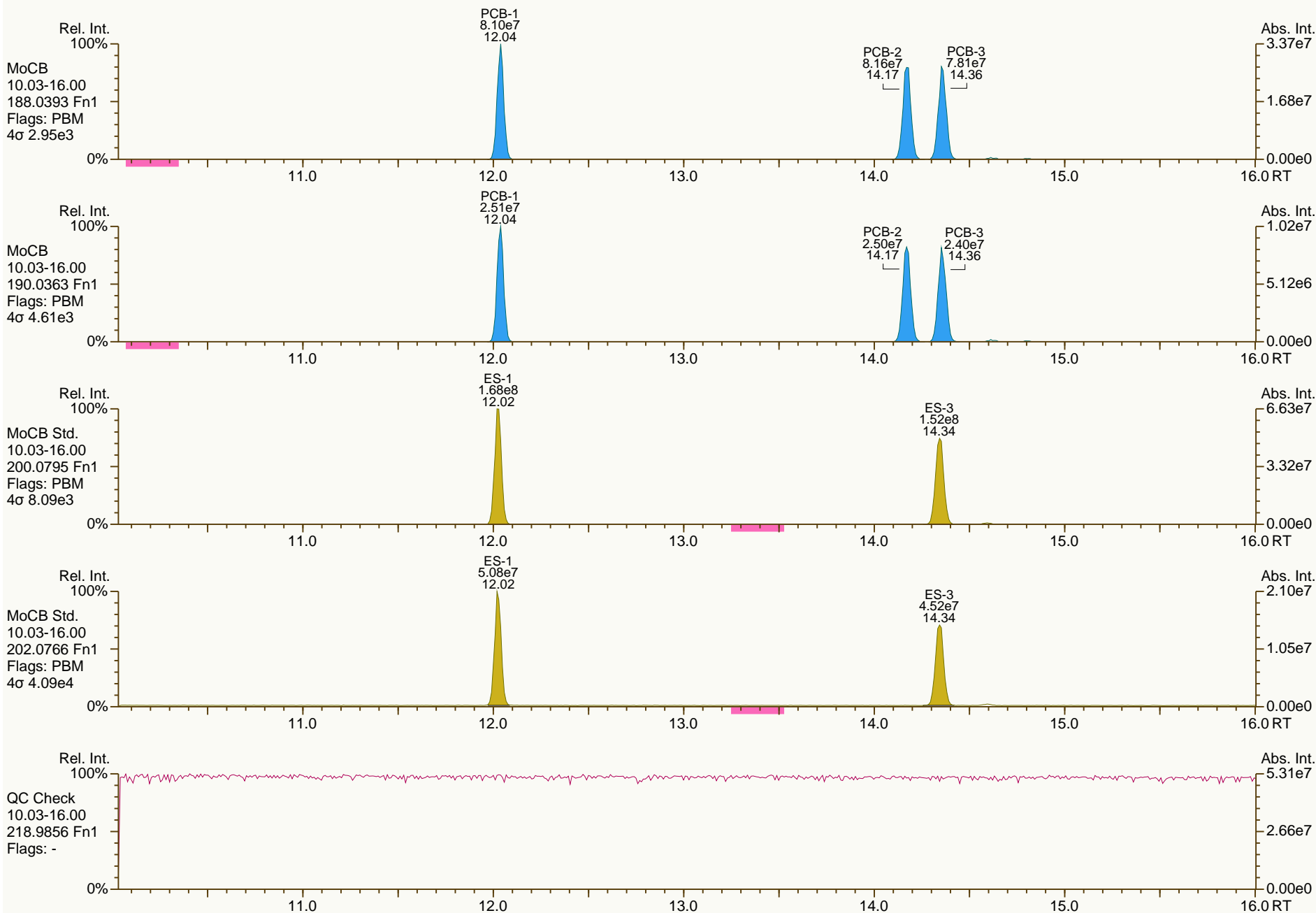
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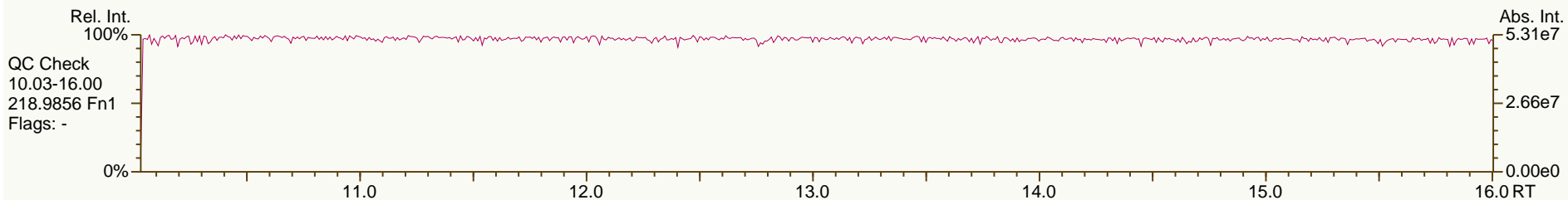
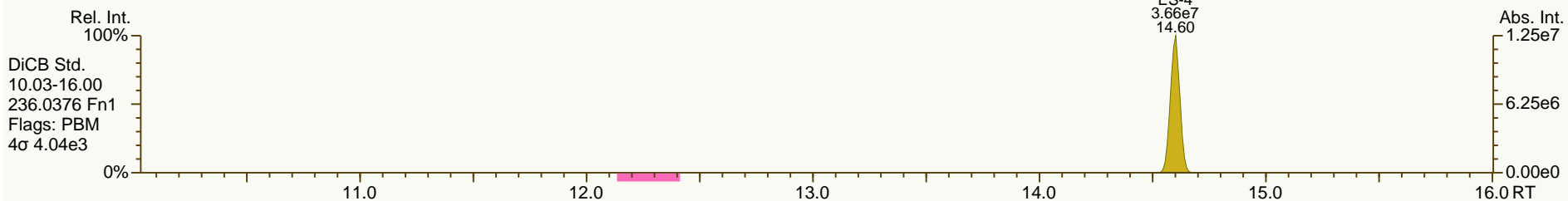
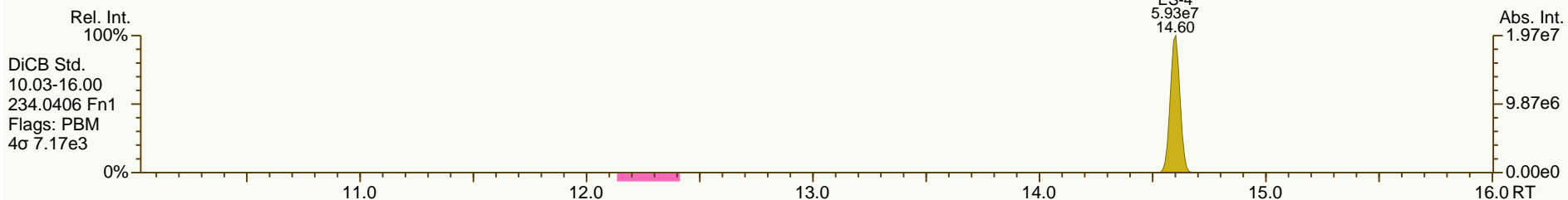
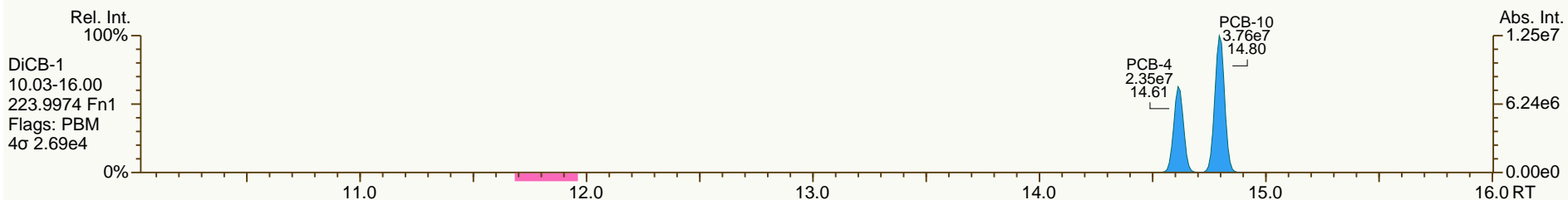
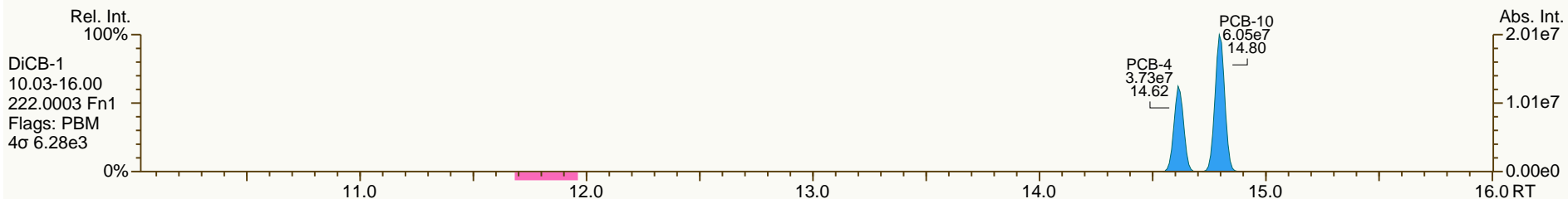
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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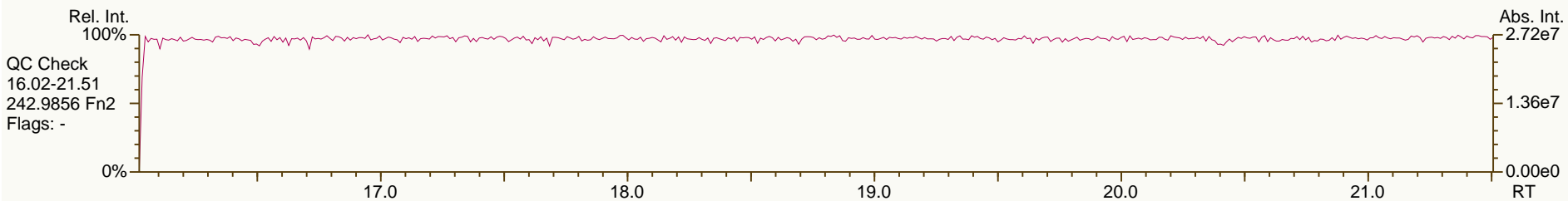
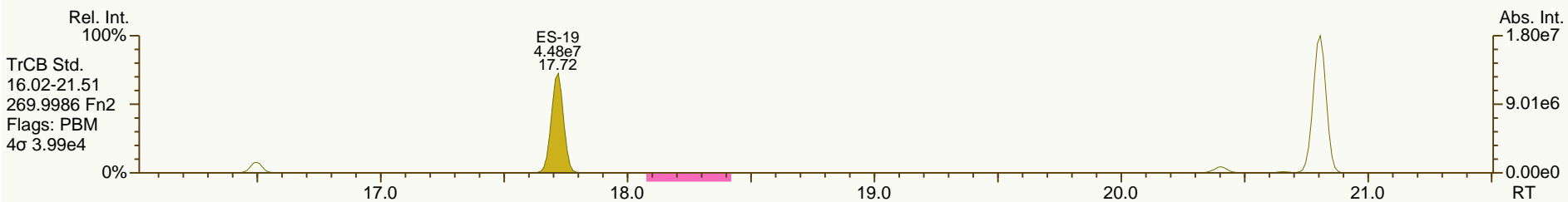
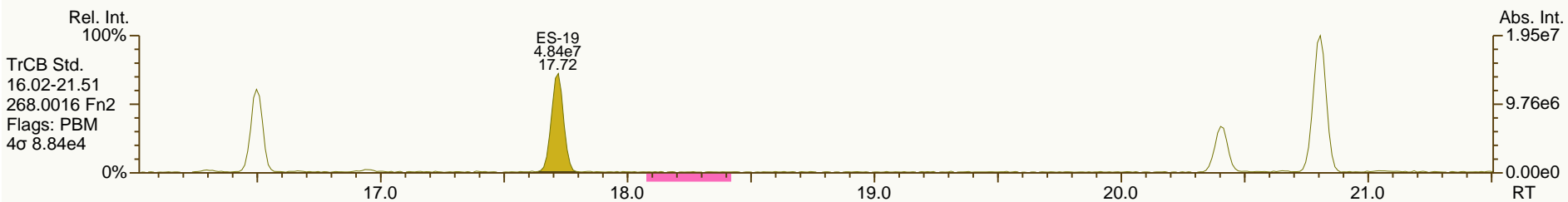
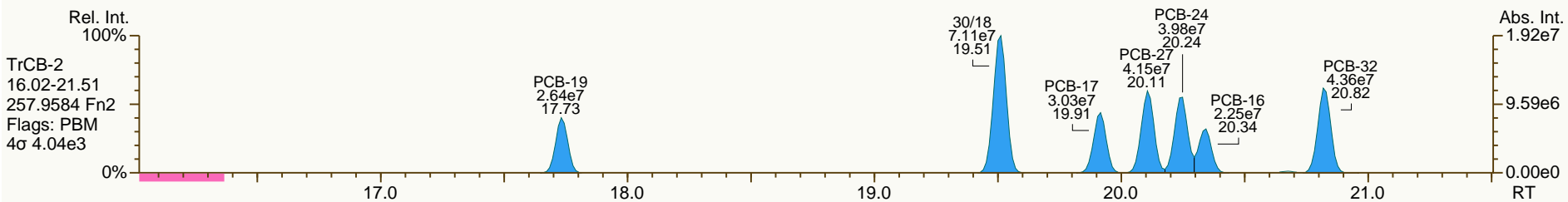
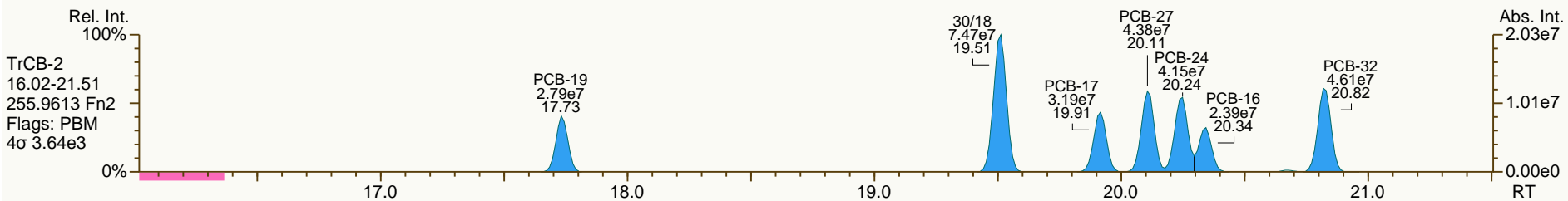




SGS-AP ID: CS3\_131220\_PCB\_XA  
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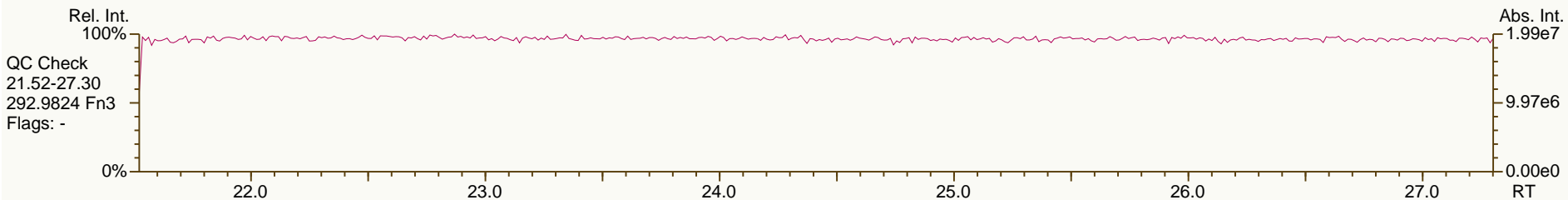
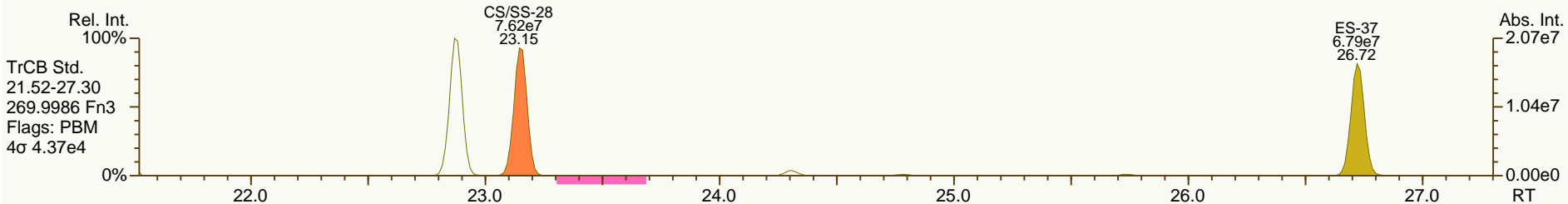
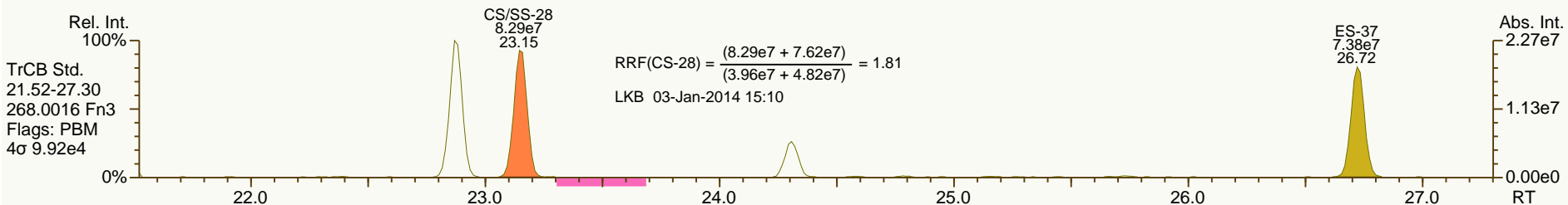
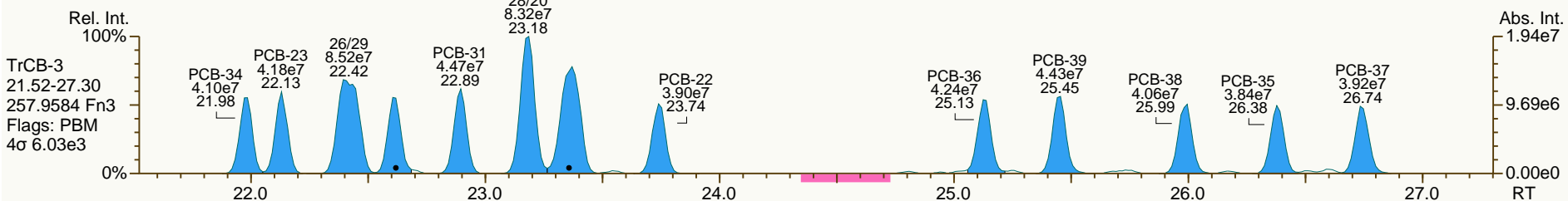
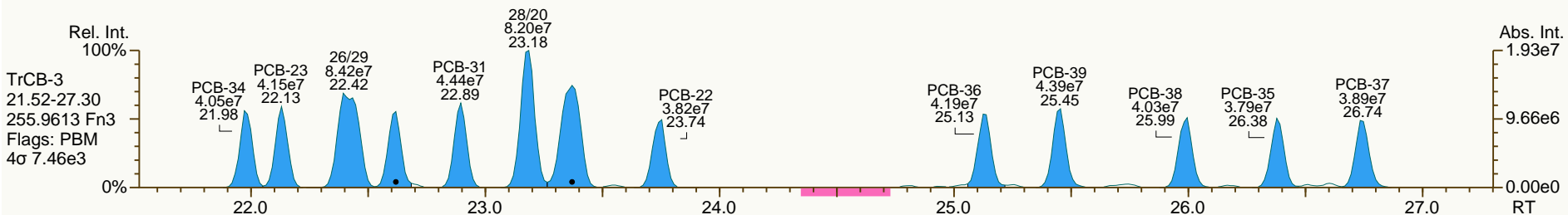
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SGS-AP ID: CS3\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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SGS-AP ID: CS3\_131220\_PCB\_XA  
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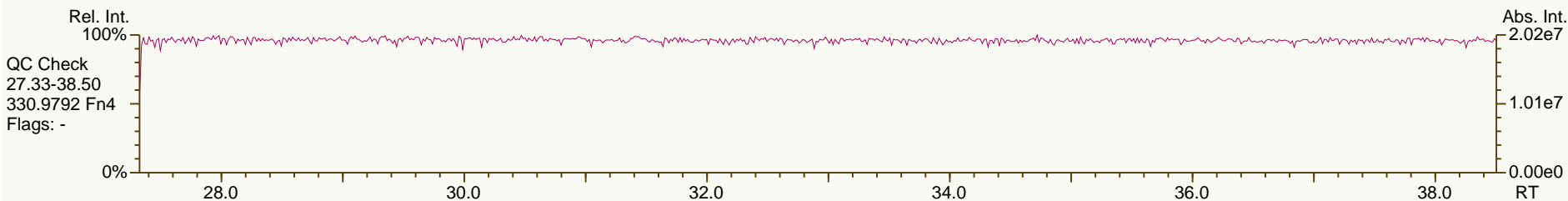
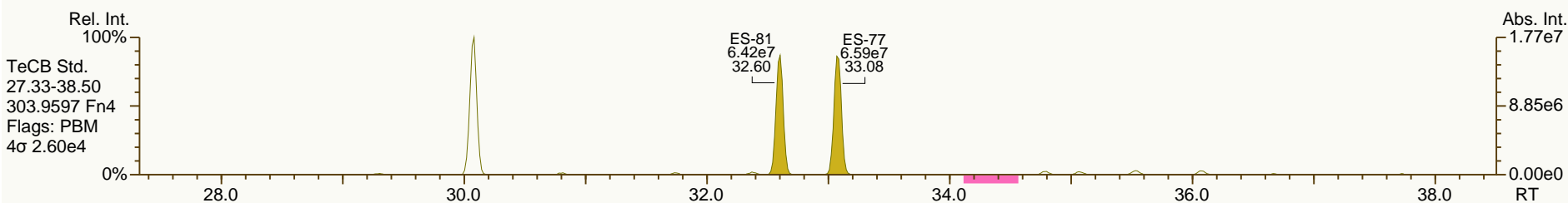
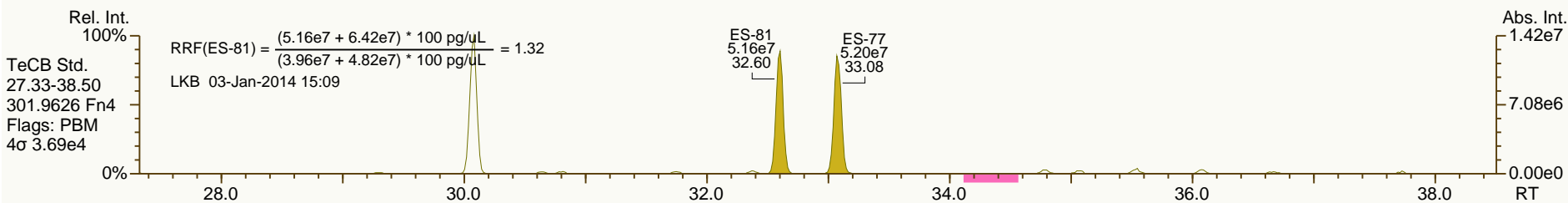
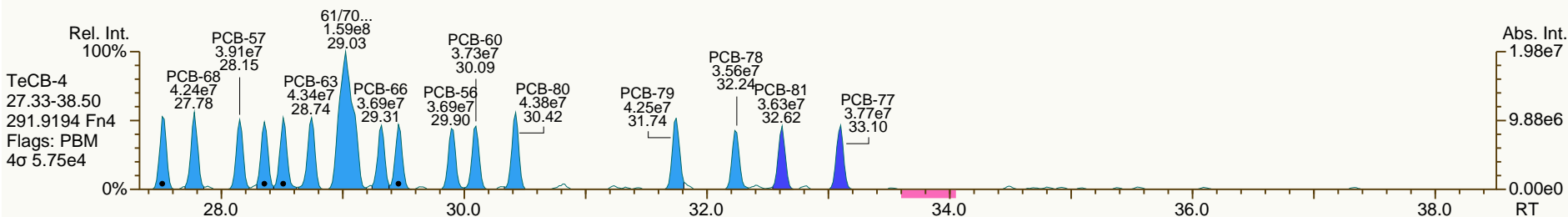
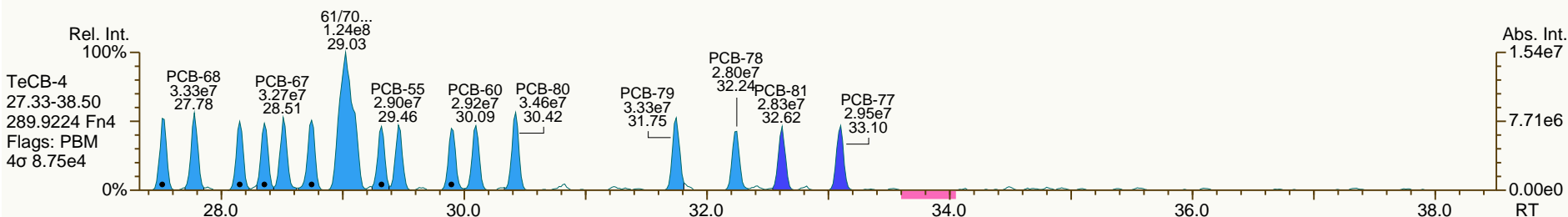
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Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

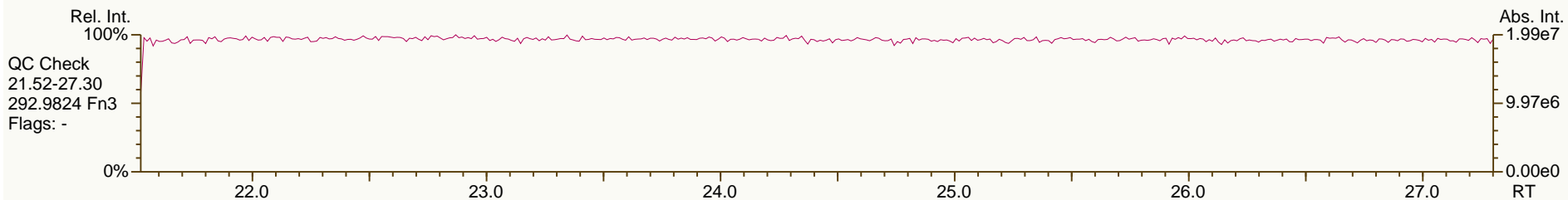
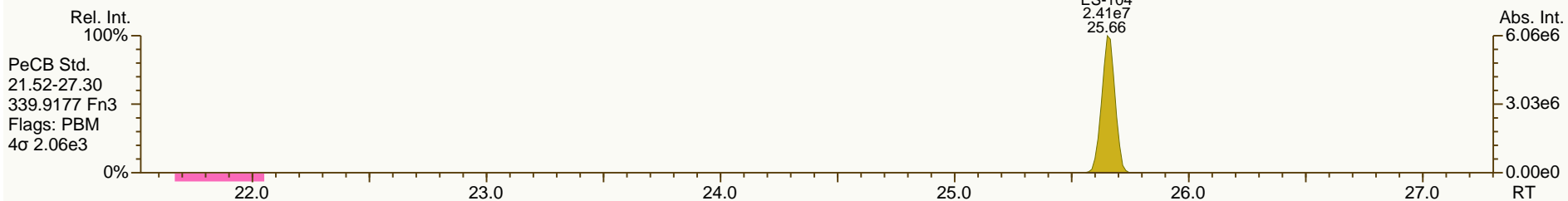
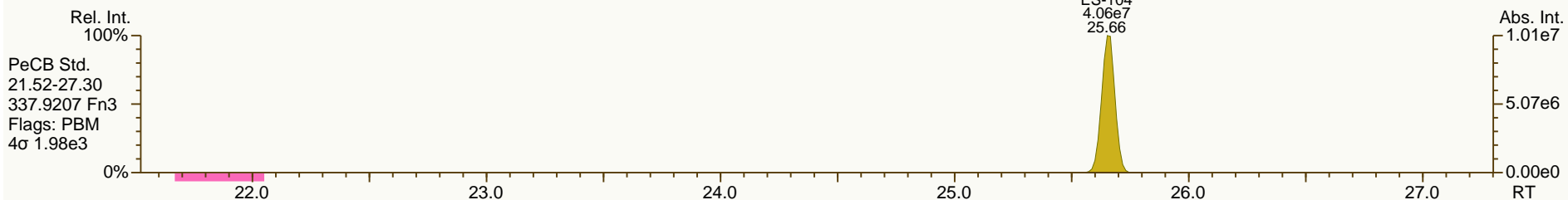
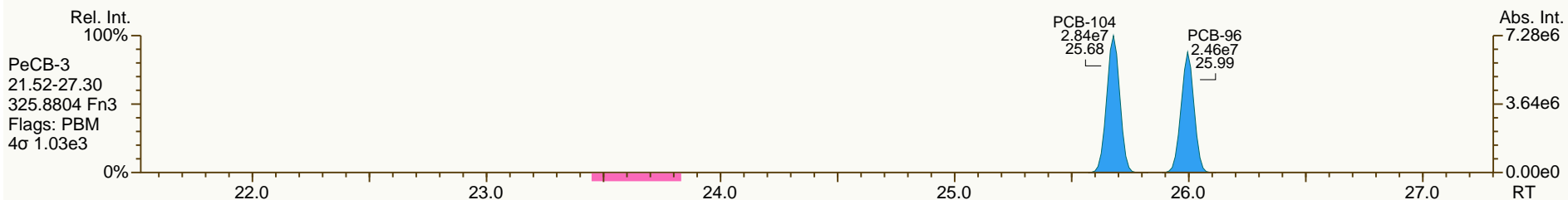
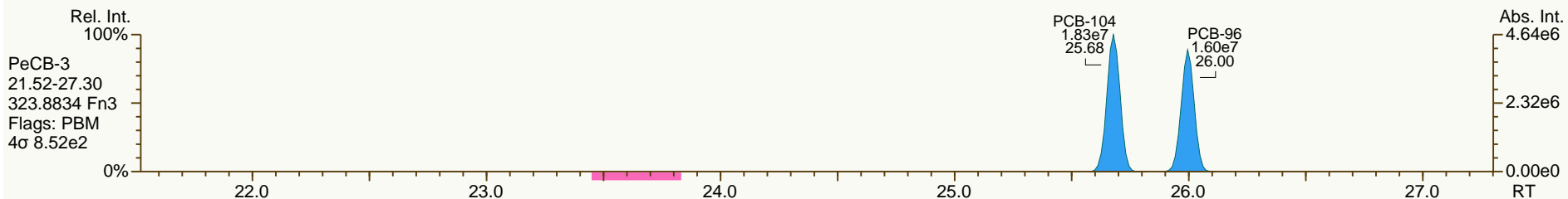
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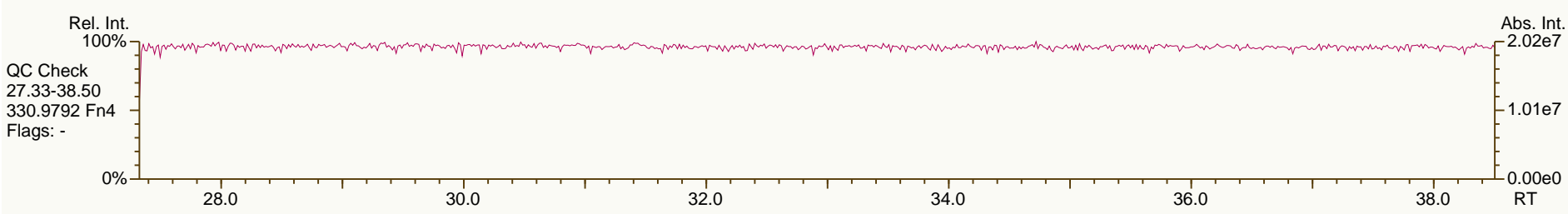
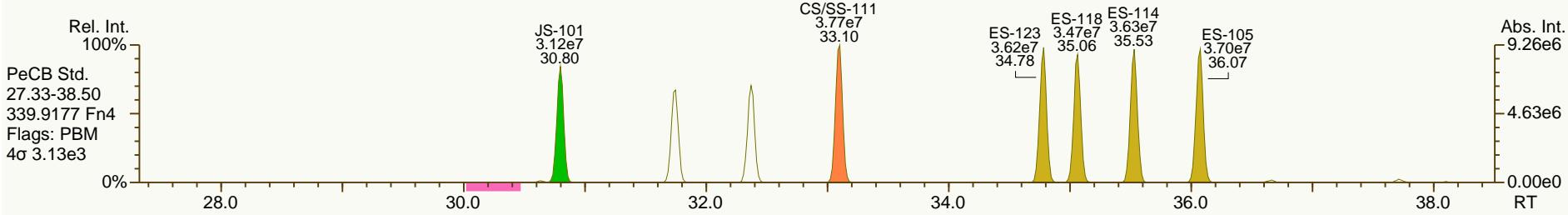
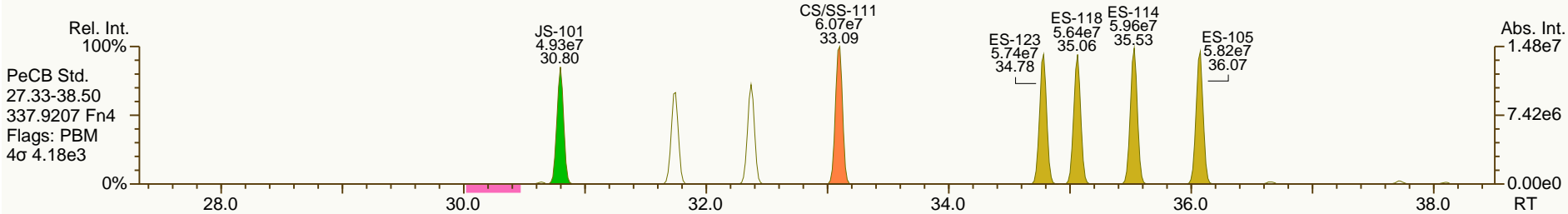
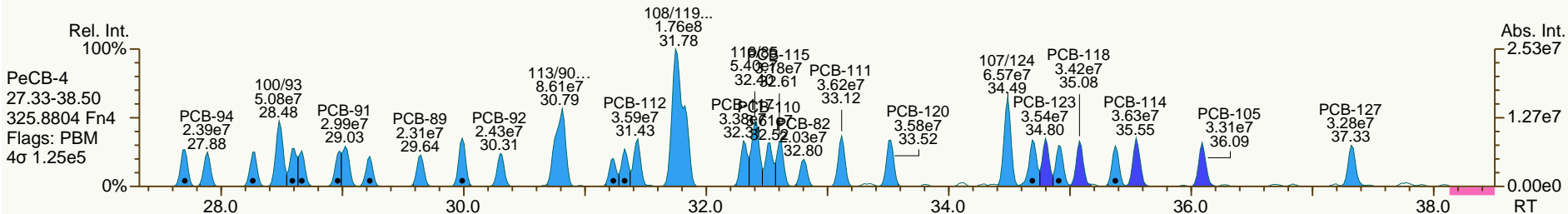
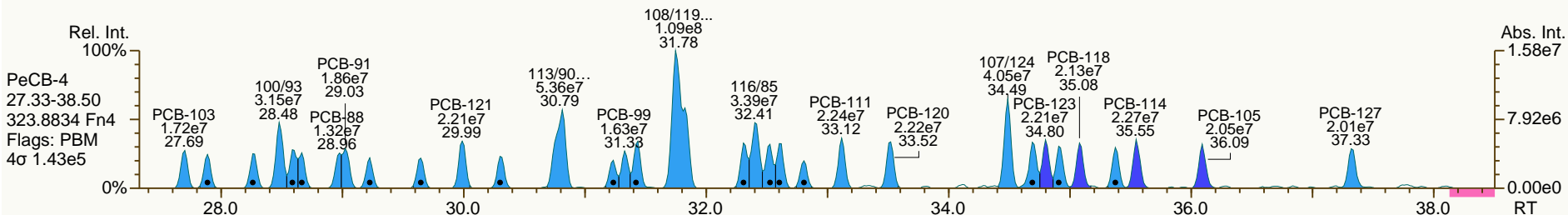
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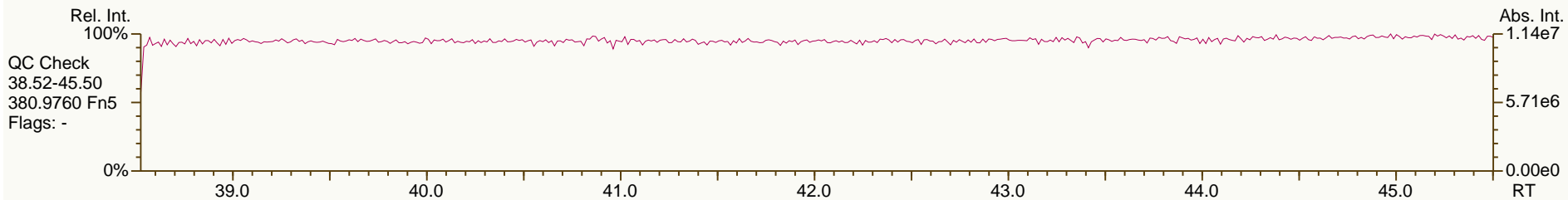
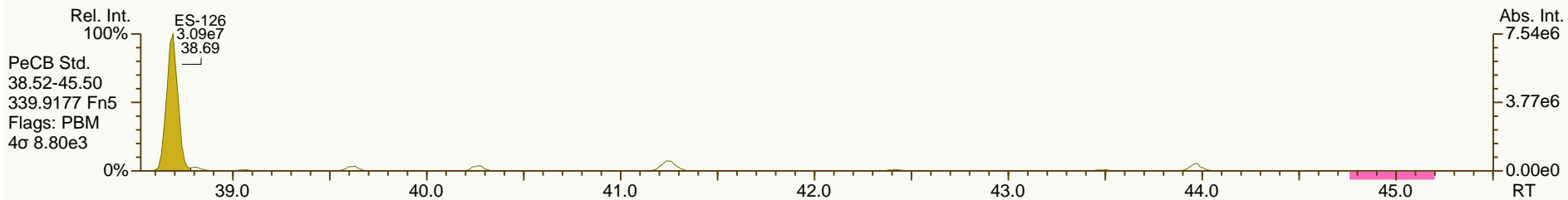
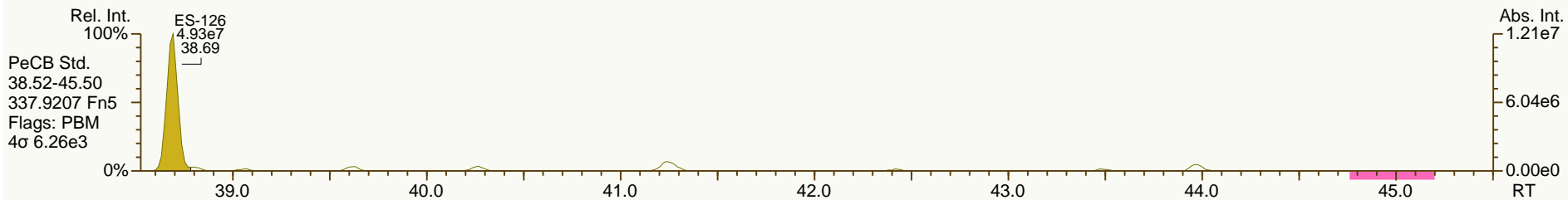
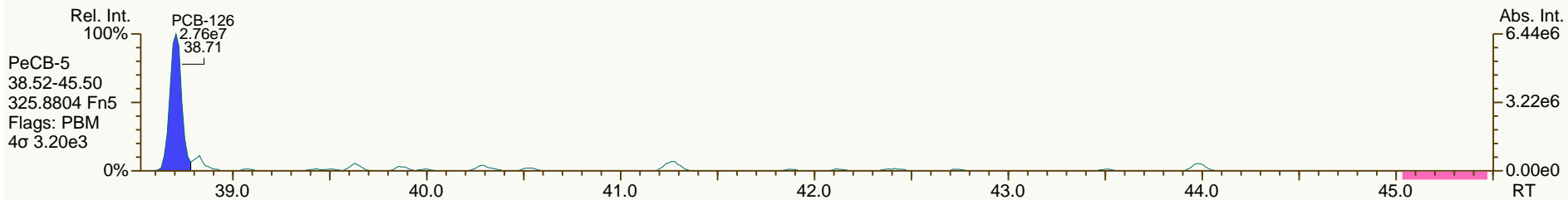
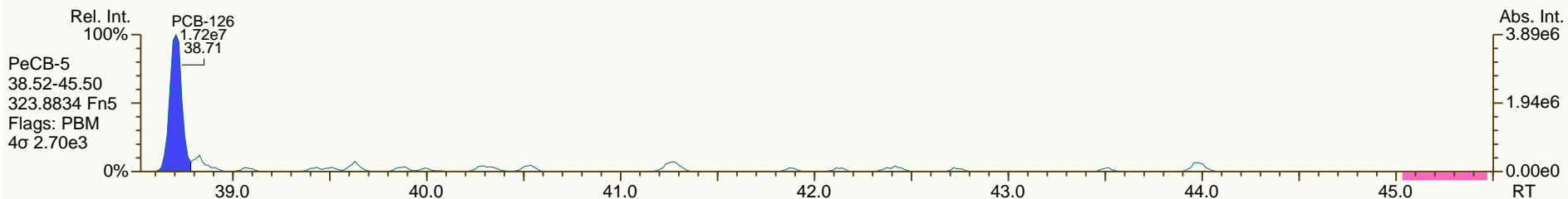
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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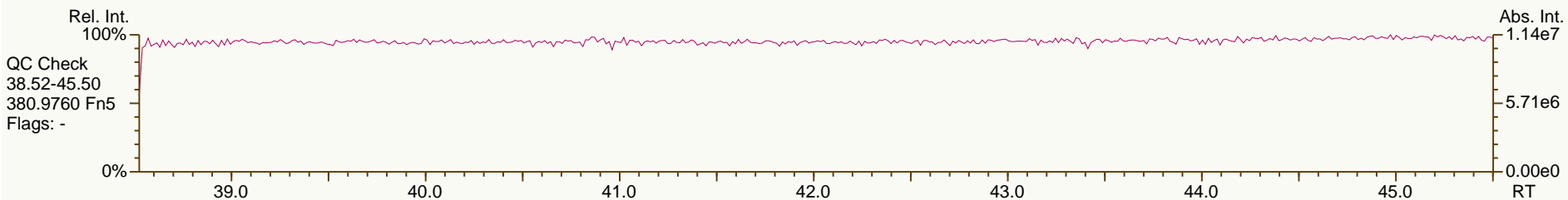
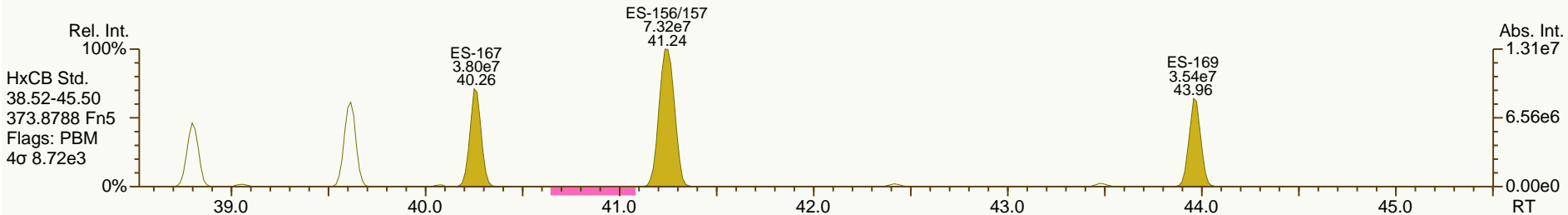
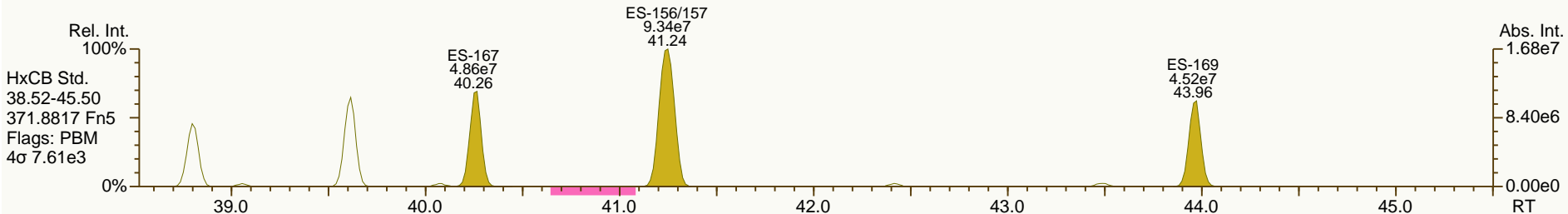
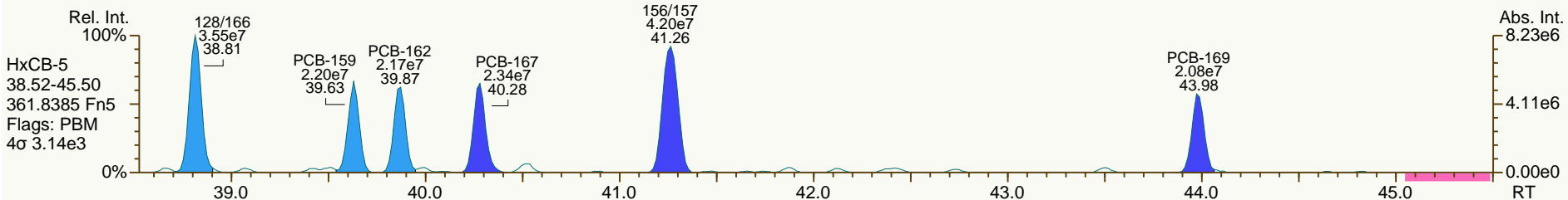
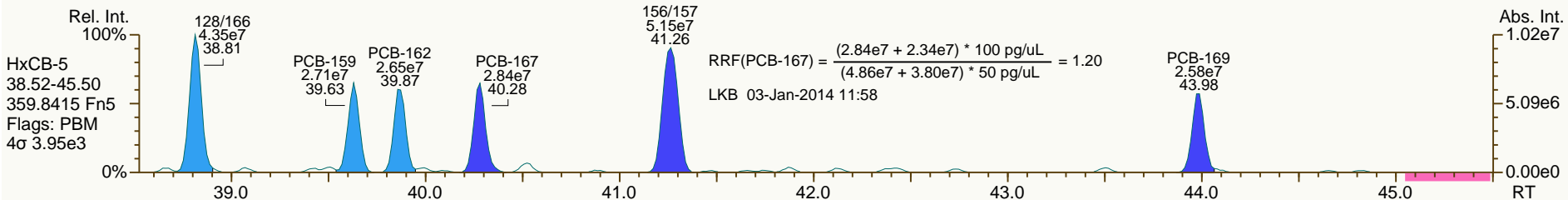
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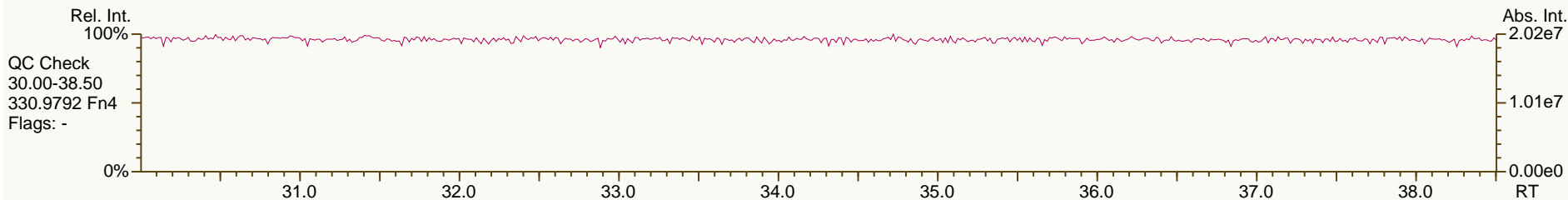
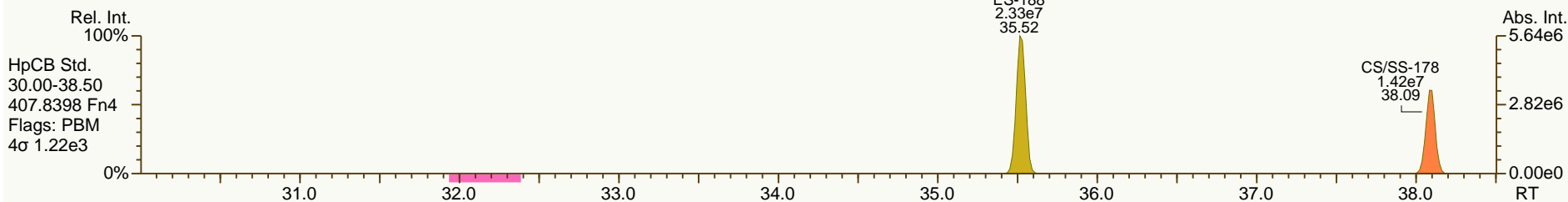
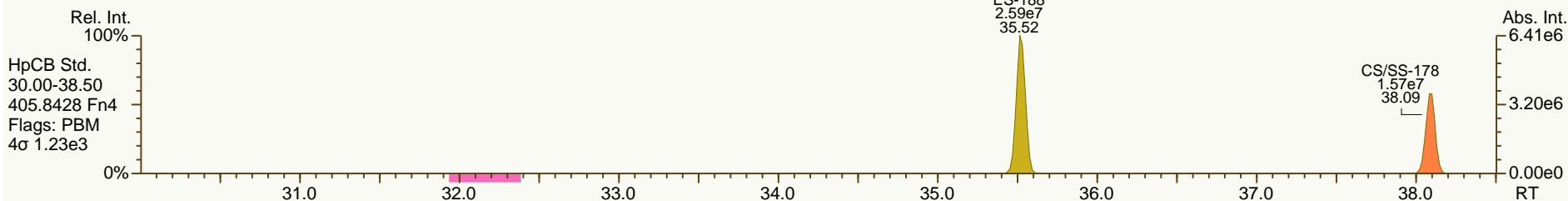
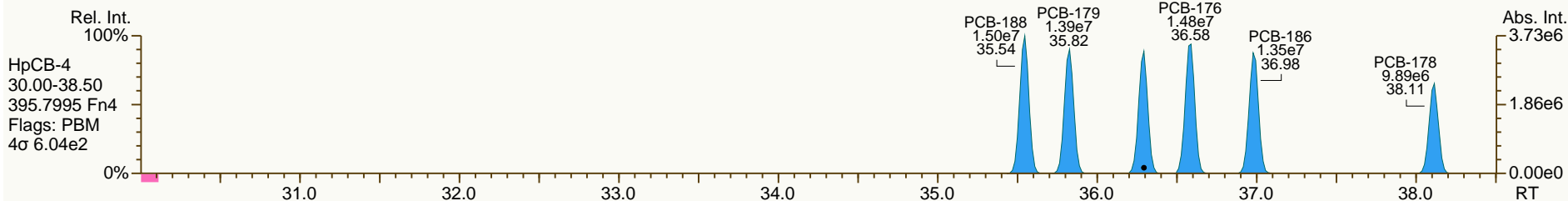
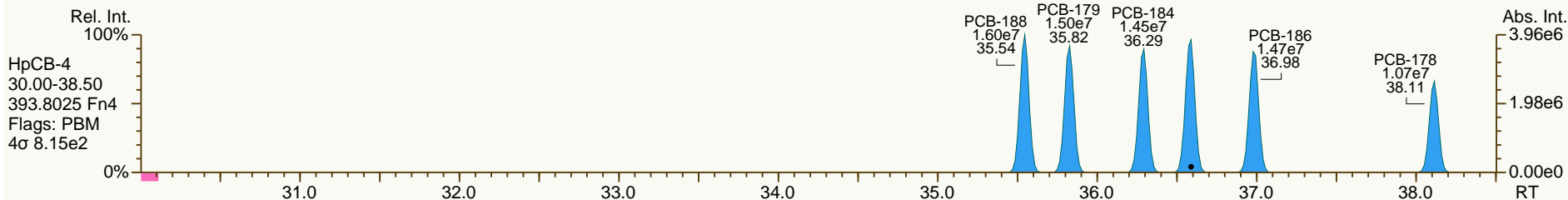
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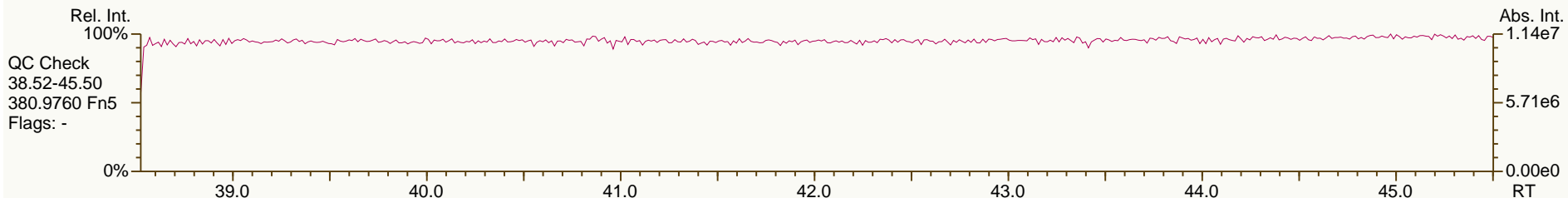
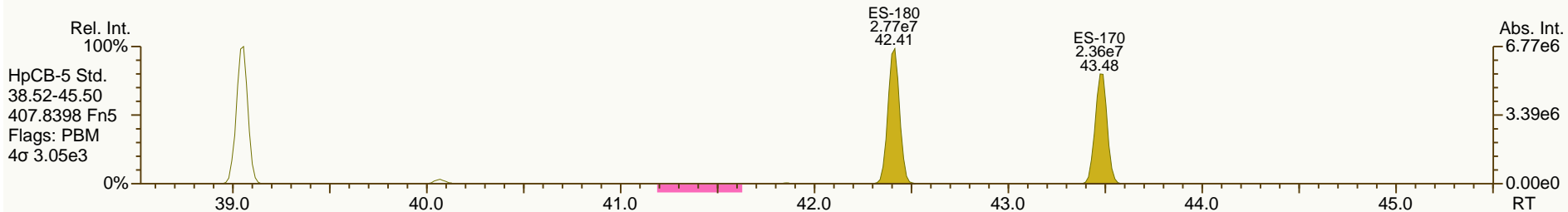
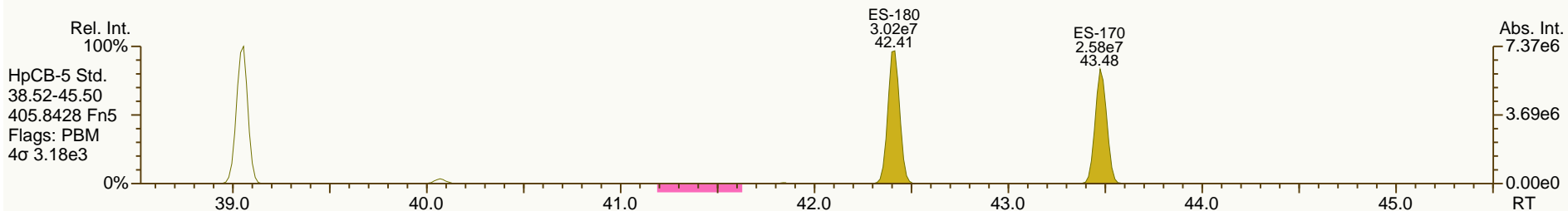
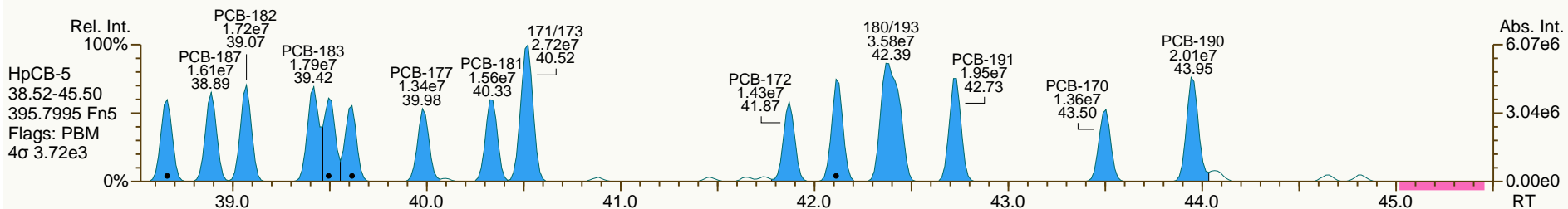
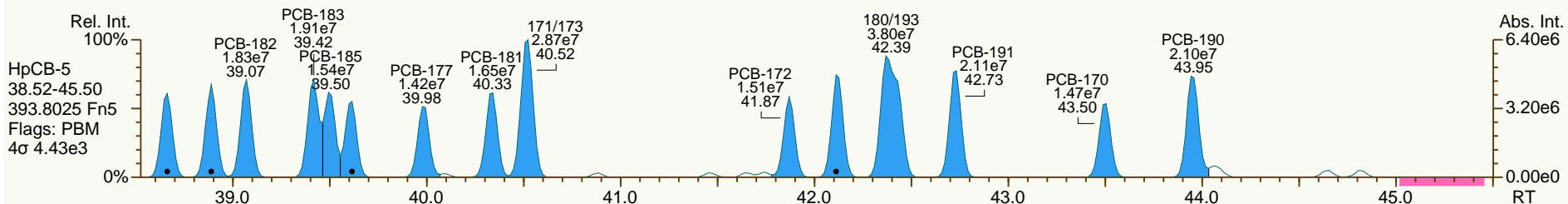
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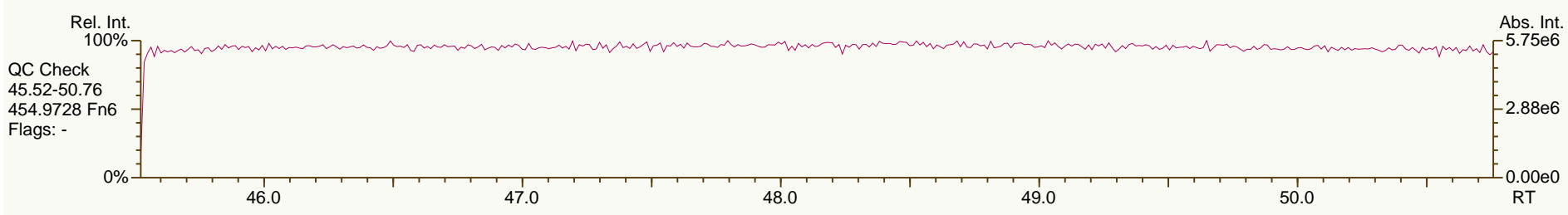
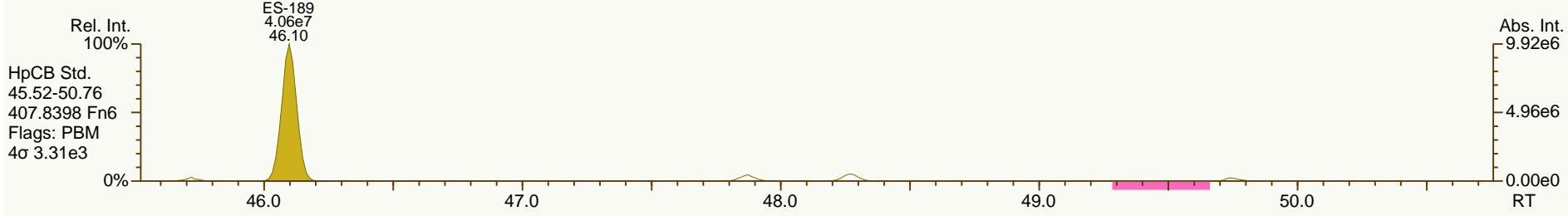
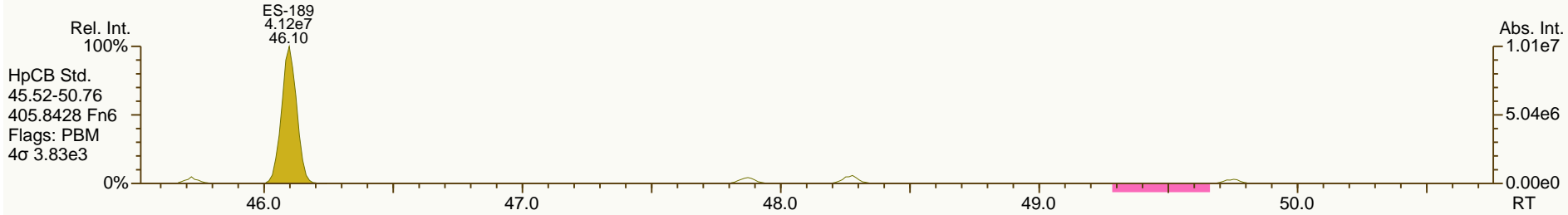
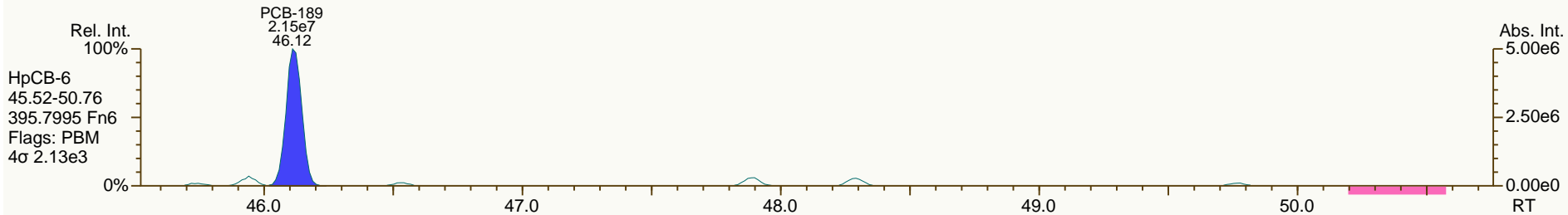
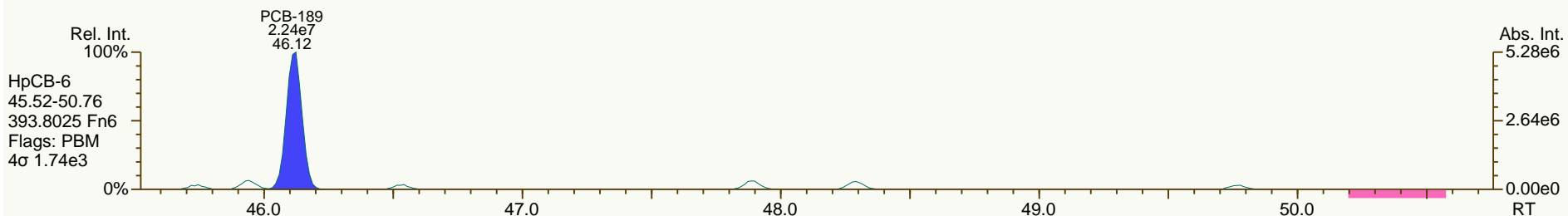
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Sample ID: SIL 13-79-3  
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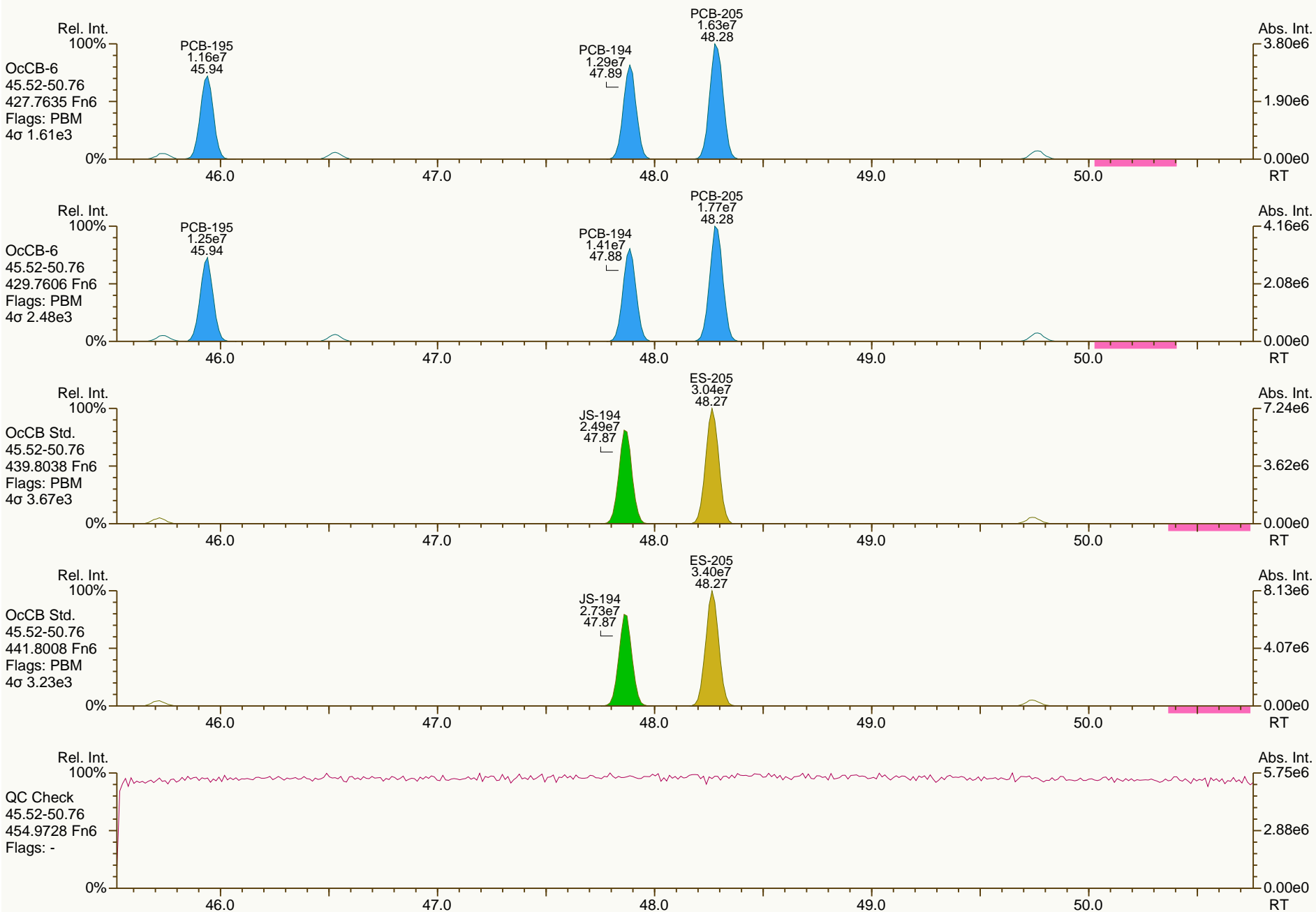
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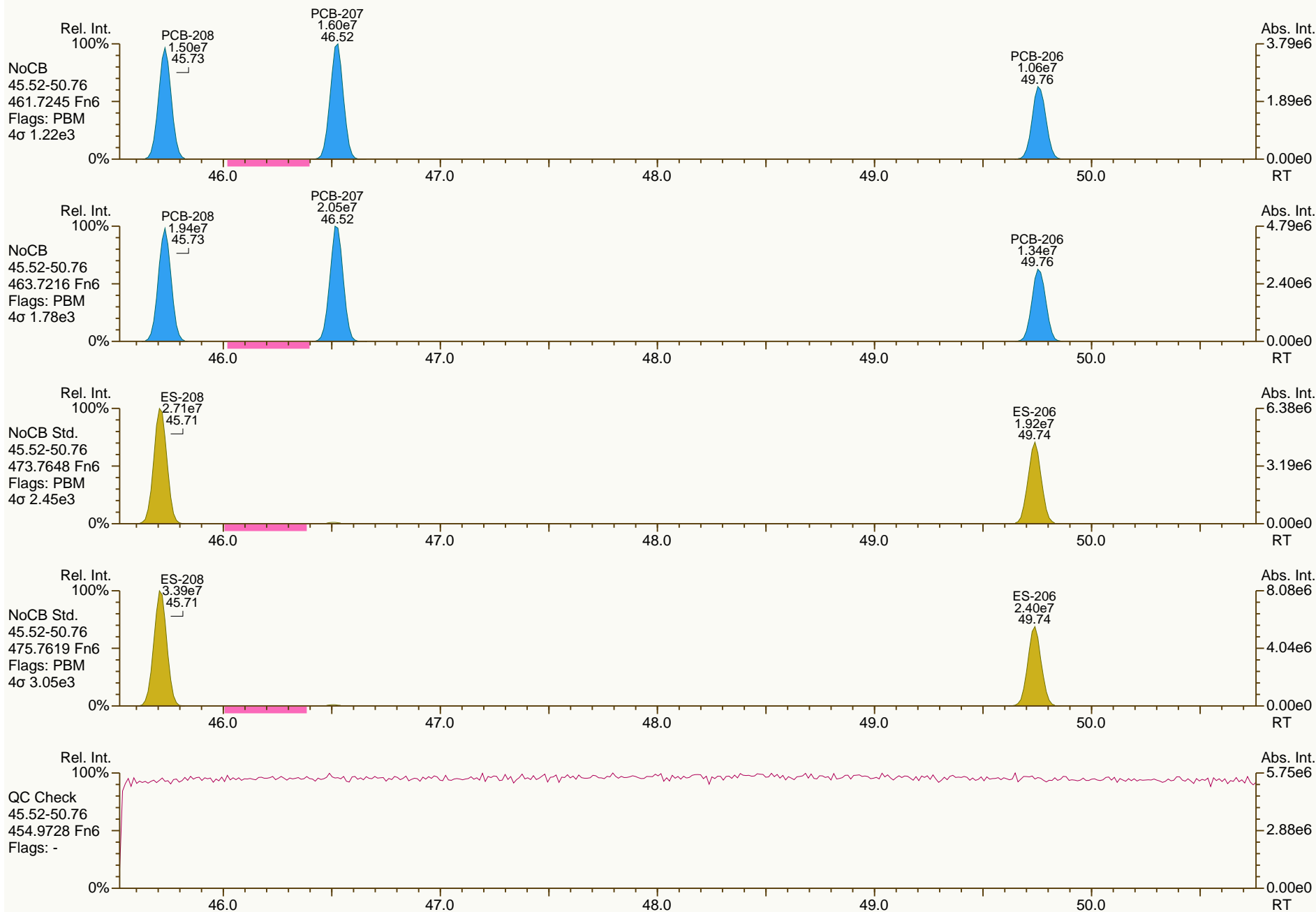
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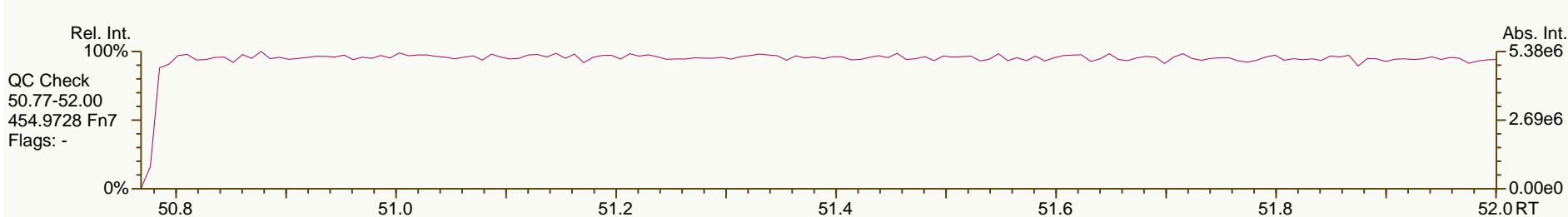
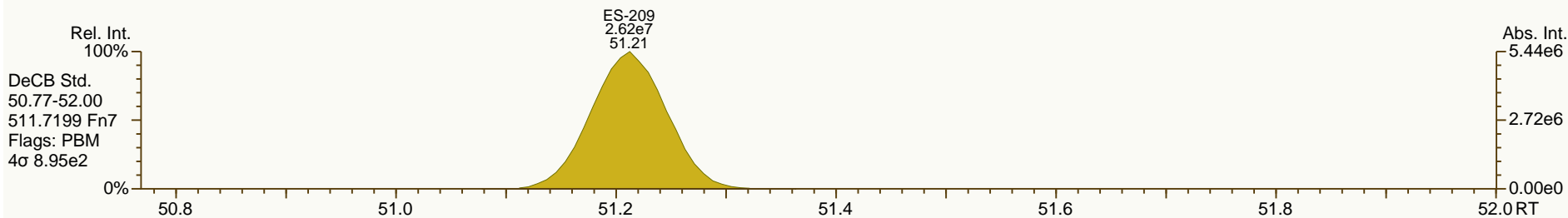
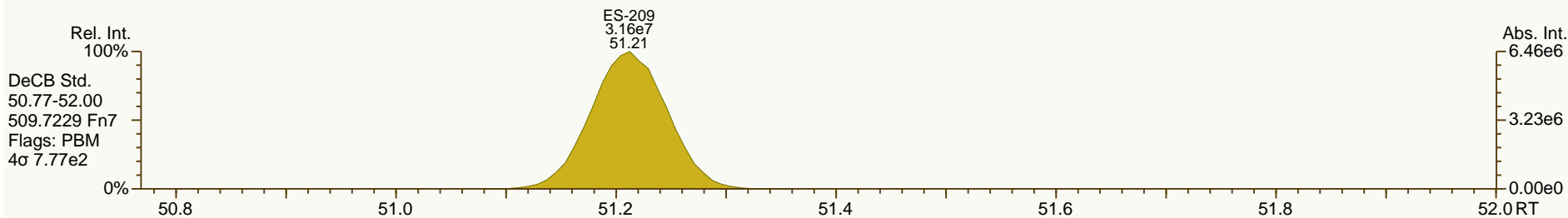
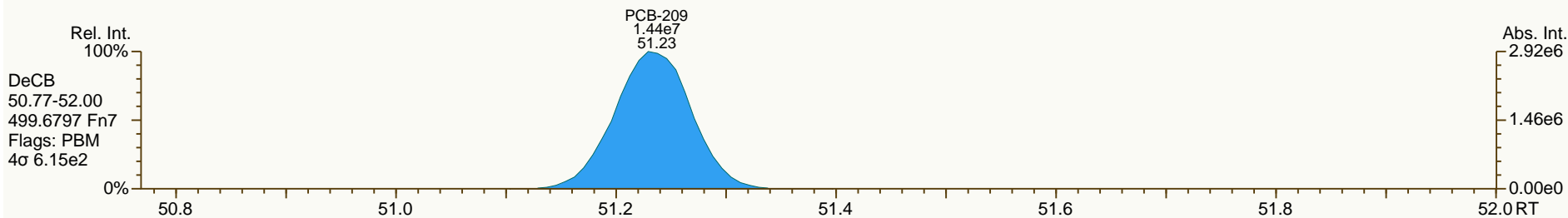
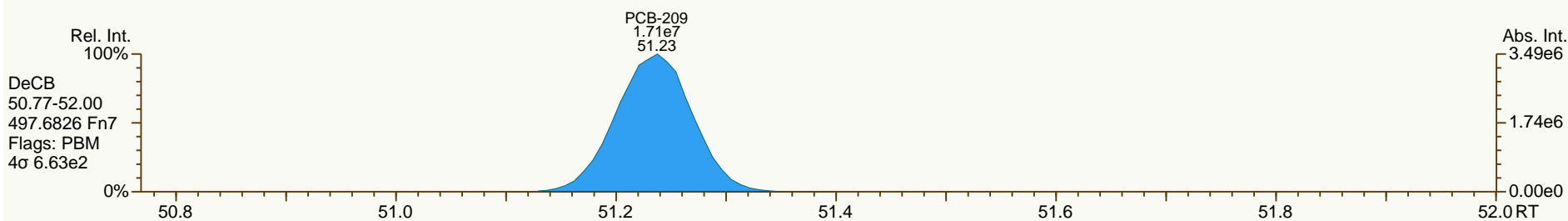




SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

Acq: 20-Dec-2013 18:04:38  
User: LKB Datafile: 131220X05



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.61E+08	0.78 Y	1.15	1.17	1.7%	
PCB-81 344'5'-TeCB	32.62	6.42E+08	0.78 Y	1.12	1.14	1.9%	
PCB-105 233'44'-PeCB	36.10	5.26E+08	0.62 Y	1.11	1.15	3.3%	
PCB-114 2344'5'-PeCB	35.56	5.80E+08	0.63 Y	1.20	1.24	3.3%	
PCB-118 23'44'5'-PeCB	35.09	5.38E+08	0.62 Y	1.19	1.22	2.6%	
PCB-123 23'44'5'-PeCB	34.81	5.67E+08	0.62 Y	1.21	1.23	1.3%	
PCB-126 33'44'5'-PeCB	38.71	4.45E+08	0.63 Y	1.11	1.14	2.8%	
PCB-156/157 ...-HxCB	41.27	9.01E+08	1.22 Y	1.10	1.11	1.1%	
PCB-167 23'44'55'-HxCB	40.29	4.96E+08	1.23 Y	1.16	1.18	1.4%	
PCB-169 33'44'55'-HxCB	43.99	4.52E+08	1.24 Y	1.12	1.14	1.2%	
PCB-189 233'44'55'-HpCB	46.13	4.15E+08	1.05 Y	1.07	1.10	2.3%	
PCB-209 DeCB	51.25	2.92E+08	1.18 Y	1.11	1.10	-1.4%	
ES PCB-1	12.03	2.53E+08	3.29 Y	1.19	1.17	-1.5%	
ES PCB-3	14.35	2.32E+08	3.37 Y	1.09	1.08	-0.6%	
ES PCB-4	14.61	1.12E+08	1.64 Y	0.52	0.52	-0.1%	
ES PCB-15	20.37	2.25E+08	1.54 Y	1.04	1.05	0.6%	
ES PCB-19	17.72	1.10E+08	1.08 Y	0.51	0.51	0.9%	
ES PCB-37	26.73	1.69E+08	1.08 Y	1.66	1.66	-0.4%	
ES PCB-54	20.66	8.74E+07	0.83 Y	0.86	0.86	-0.5%	
ES PCB-77	33.08	1.41E+08	0.79 Y	1.38	1.38	0.0%	
ES PCB-81	32.61	1.41E+08	0.77 Y	1.37	1.38	1.1%	
ES PCB-104	25.66	7.69E+07	1.65 Y	0.80	0.79	-1.2%	
ES PCB-105	36.08	1.14E+08	1.60 Y	1.20	1.18	-1.7%	
ES PCB-114	35.54	1.17E+08	1.63 Y	1.22	1.21	-1.1%	
ES PCB-118	35.07	1.10E+08	1.63 Y	1.16	1.14	-1.8%	
ES PCB-123	34.79	1.15E+08	1.60 Y	1.19	1.19	0.4%	
ES PCB-126	38.70	9.79E+07	1.53 Y	1.03	1.01	-1.7%	
ES PCB-153	36.66	6.88E+07	1.31 Y	1.11	1.11	-0.6%	
ES PCB-155	30.64	9.70E+07	1.30 Y	1.59	1.56	-1.7%	
ES PCB-156/157	41.25	2.03E+08	1.29 Y	1.60	1.64	2.3%	
ES PCB-167	40.27	1.05E+08	1.27 Y	1.67	1.70	1.7%	
ES PCB-169	43.97	9.92E+07	1.27 Y	1.56	1.60	2.7%	
ES PCB-170	43.49	5.71E+07	1.09 Y	0.95	0.95	0.6%	
ES PCB-180	42.42	6.95E+07	1.09 Y	1.14	1.16	2.0%	
ES PCB-188	35.53	5.77E+07	1.13 Y	0.94	0.93	-1.0%	
ES PCB-189	46.11	9.44E+07	1.04 Y	1.58	1.57	-0.5%	
ES PCB-202	40.08	6.04E+07	0.94 Y	0.97	0.97	0.4%	
ES PCB-205	48.28	7.51E+07	0.90 Y	1.24	1.25	0.7%	
ES PCB-206	49.75	5.00E+07	0.81 Y	0.83	0.83	0.6%	
ES PCB-208	45.72	7.07E+07	0.80 Y	1.17	1.18	0.4%	
ES PCB-209	51.22	6.66E+07	1.18 Y	1.11	1.11	0.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA		ICAL: 131220 QC MM7				
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.88E+08	1.09 Y	1.11	1.11	0.2%	
SS PCB-111	33.10	1.16E+08	1.60 Y	1.03	1.00	-2.6%	
SS PCB-178	38.10	3.54E+07	1.11 Y	0.62	0.61	-1.0%	
CS PCB-28	23.16	1.88E+08	1.09 Y	1.85	1.84	-0.1%	
CS PCB-111	33.10	1.16E+08	1.60 Y	1.22	1.19	-2.2%	
CS PCB-178	38.10	3.54E+07	1.11 Y	0.58	0.57	-2.0%	
JS PCB-9	16.61	2.15E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.02E+08	0.80 Y	-	-	-	
JS PCB-101	30.80	9.69E+07	1.60 Y	-	-	-	
JS PCB-138	37.72	6.21E+07	1.30 Y	-	-	-	
JS PCB-194	47.88	6.00E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-2 3-MoCB	14.18	1.00E+09	3.28 Y	1.03	1.08	4.2%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-10 26'-DiCB	14.80	9.17E+08	1.60 Y	1.98	2.04	3.1%	
PCB-9 25'-DiCB	16.62	8.62E+08	1.63 Y	0.95	0.96	1.3%	
PCB-7 24'-DiCB	16.79	9.69E+08	1.64 Y	1.05	1.08	2.9%	
PCB-6 23'-DiCB	17.02	9.24E+08	1.65 Y	1.00	1.03	3.0%	
PCB-5 23'-DiCB	17.32	9.17E+08	1.63 Y	1.00	1.02	1.7%	
PCB-8 24'-DiCB	17.44	9.28E+08	1.63 Y	1.03	1.03	-0.2%	
PCB-14 35'-DiCB	19.01	1.09E+09	1.64 Y	1.18	1.21	2.2%	
PCB-11 33'-DiCB	19.80	9.34E+08	1.64 Y	1.01	1.04	2.7%	
PCB-13/12 34'/34'-DiCB	20.10	1.86E+09	1.64 Y	0.99	1.03	4.5%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.39E+09	1.05 Y	1.54	1.59	3.3%	
PCB-17 22'4'-TrCB	19.92	5.88E+08	1.05 Y	1.31	1.34	2.6%	
PCB-27 23'6'-TrCB	20.11	8.20E+08	1.05 Y	1.82	1.87	2.8%	
PCB-24 236'-TrCB	20.25	7.60E+08	1.05 Y	1.72	1.73	0.5%	
PCB-16 22'3'-TrCB	20.34	4.62E+08	1.06 Y	1.01	1.05	4.7%	
PCB-32 24'6'-TrCB	20.83	8.47E+08	1.05 Y	1.92	1.93	0.6%	
PCB-34 23'5'-TrCB	21.98	7.98E+08	0.99 Y	1.14	1.18	4.1%	
PCB-23 235'-TrCB	22.14	8.06E+08	0.98 Y	1.16	1.19	3.3%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.63E+09	0.98 Y	1.17	1.21	2.9%	
PCB-25 23'4'-TrCB	22.62	8.00E+08	0.97 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.90	8.40E+08	0.97 Y	1.23	1.24	1.5%	
PCB-28/20 244'/233'-TrCB	23.19	1.58E+09	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.37	1.64E+09	0.99 Y	1.17	1.21	3.3%	
PCB-22 234'-TrCB	23.75	7.44E+08	0.99 Y	1.08	1.10	2.0%	
PCB-36 33'5'-TrCB	25.14	8.17E+08	0.99 Y	1.17	1.21	3.4%	
PCB-39 34'5'-TrCB	25.46	8.41E+08	0.98 Y	1.21	1.25	2.8%	
PCB-38 345'-TrCB	25.99	7.83E+08	0.99 Y	1.10	1.16	4.9%	
PCB-35 33'4'-TrCB	26.39	7.26E+08	0.99 Y	1.04	1.07	3.4%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.00E+09	0.79 Y	0.88	0.89	1.4%	
PCB-45 22'36'-TeCB	23.27	4.42E+08	0.78 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.34	4.96E+08	0.80 Y	0.86	0.88	2.5%	
PCB-46 22'36'-TeCB	23.55	3.98E+08	0.79 Y	0.70	0.71	1.0%	
PCB-52 22'55'-TeCB	24.81	4.82E+08	0.79 Y	0.84	0.85	1.3%	
PCB-73 23'5'6'-TeCB	24.94	6.34E+08	0.78 Y	1.11	1.12	1.1%	
PCB-43 22'35'-TeCB	25.04	4.03E+08	0.80 Y	0.71	0.72	0.7%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.18E+09	0.79 Y	1.02	1.05	2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	4.79E+08	0.79 Y	0.84	0.85	1.4%	
PCB-44/47/65 ...-TeCB	25.74	1.57E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.01	2.05E+09	0.79 Y	1.17	1.22	4.3%	
PCB-42 22'34'-TeCB	26.18	4.36E+08	0.79 Y	0.76	0.77	1.5%	
PCB-41 22'34'-TeCB	26.51	3.81E+08	0.78 Y	0.69	0.68	-2.7%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.02E+09	0.80 Y	0.86	0.90	4.9%	
PCB-64 234'6'-TeCB	26.81	7.02E+08	0.79 Y	1.22	1.25	2.0%	
PCB-72 23'55'-TeCB	27.53	6.86E+08	0.78 Y	1.21	1.22	0.7%	
PCB-68 23'45'-TeCB	27.78	7.41E+08	0.78 Y	1.28	1.31	2.9%	
PCB-57 233'5'-TeCB	28.16	6.53E+08	0.78 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.36	6.72E+08	0.78 Y	1.18	1.19	1.1%	
PCB-67 23'45'-TeCB	28.52	7.17E+08	0.78 Y	1.26	1.27	1.1%	
PCB-63 234'5'-TeCB	28.75	7.44E+08	0.78 Y	1.30	1.32	1.7%	
PCB-61/70/74/76 ...-TeCB	29.04	2.76E+09	0.78 Y	1.20	1.22	2.2%	
PCB-66 23'44'-TeCB	29.32	6.42E+08	0.78 Y	1.10	1.14	3.3%	
PCB-55 233'4'-TeCB	29.47	6.33E+08	0.78 Y	1.12	1.12	0.3%	
PCB-56 233'4'-TeCB	29.91	6.29E+08	0.78 Y	1.11	1.12	0.6%	
PCB-60 2344'-TeCB	30.10	6.41E+08	0.78 Y	1.14	1.14	0.2%	
PCB-80 33'55'-TeCB	30.43	7.47E+08	0.78 Y	1.31	1.32	0.9%	
PCB-79 33'45'-TeCB	31.75	7.60E+08	0.78 Y	1.31	1.35	3.2%	
PCB-78 33'45'-TeCB	32.25	6.10E+08	0.78 Y	1.06	1.08	1.9%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-96 22'366'-PeCB	26.00	3.93E+08	0.65 Y	1.23	1.28	3.9%	
PCB-103 22'45'6'-PeCB	27.70	4.37E+08	0.62 Y	0.93	0.95	1.6%	
PCB-94 22'356'-PeCB	27.89	3.75E+08	0.62 Y	0.80	0.81	1.6%	
PCB-95 22'35'6'-PeCB	28.27	4.04E+08	0.62 Y	0.87	0.87	0.9%	
PCB-100/93 22'44'6/22'356'-PeCB	28.49	8.29E+08	0.62 Y	0.86	0.90	3.9%	
PCB-102 22'456'-PeCB	28.60	4.01E+08	0.62 Y	0.97	0.87	-10.2%	
PCB-98 22'34'6'-PeCB	28.67	3.96E+08	0.62 Y	0.76	0.86	13.2%	
PCB-88 22'346'-PeCB	28.98	3.93E+08	0.62 Y	0.80	0.85	6.8%	
PCB-91 22'34'6'-PeCB	29.04	4.40E+08	0.63 Y	0.94	0.95	0.9%	
PCB-84 22'33'6'-PeCB	29.23	3.38E+08	0.63 Y	0.72	0.73	2.3%	
PCB-89 22'346'-PeCB	29.65	3.62E+08	0.62 Y	0.76	0.78	2.8%	
PCB-121 23'45'6'-PeCB	29.99	5.66E+08	0.62 Y	1.20	1.23	2.2%	
PCB-92 22'355'-PeCB	30.31	3.81E+08	0.62 Y	0.82	0.83	0.7%	
PCB-113/90/101 ...-PeCB	30.80	1.39E+09	0.62 Y	0.99	1.01	2.0%	
PCB-83 22'33'5'-PeCB	31.24	3.22E+08	0.62 Y	0.71	0.70	-2.5%	
PCB-99 22'44'5'-PeCB	31.34	4.51E+08	0.62 Y	0.92	0.98	6.1%	
PCB-112 233'56'-PeCB	31.44	5.42E+08	0.62 Y	1.17	1.17	0.5%	
PCB-108/119/86/97/125...-PeCB	31.78	2.82E+09	0.63 Y	0.98	1.02	3.8%	
PCB-117 234'56'-PeCB	32.32	5.03E+08	0.62 Y	1.14	1.09	-4.3%	
PCB-116/85 23456/22'344'-PeCB	32.41	9.15E+08	0.62 Y	0.94	0.99	5.3%	
PCB-110 233'4'6'-PeCB	32.53	5.11E+08	0.62 Y	1.12	1.11	-1.0%	

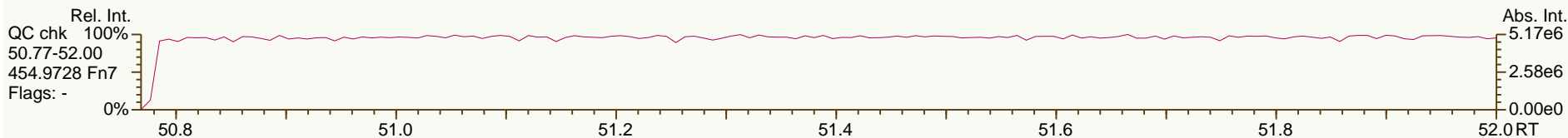
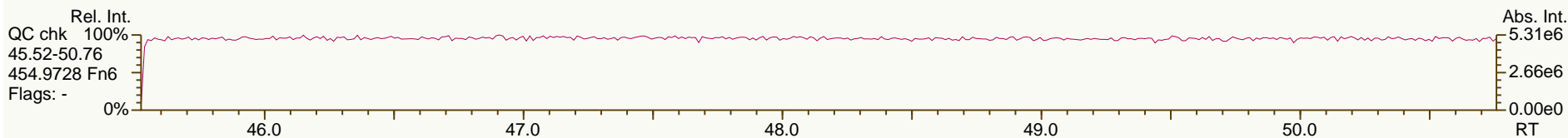
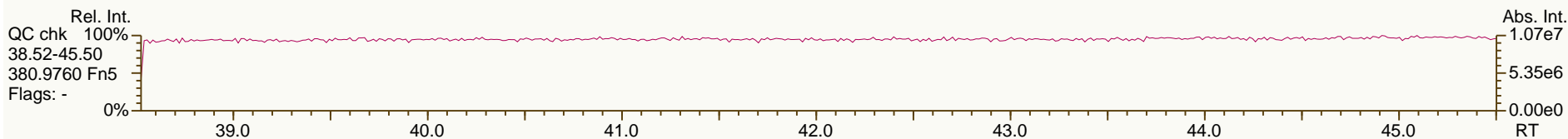
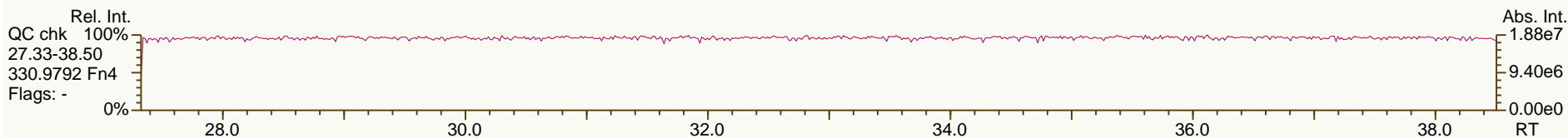
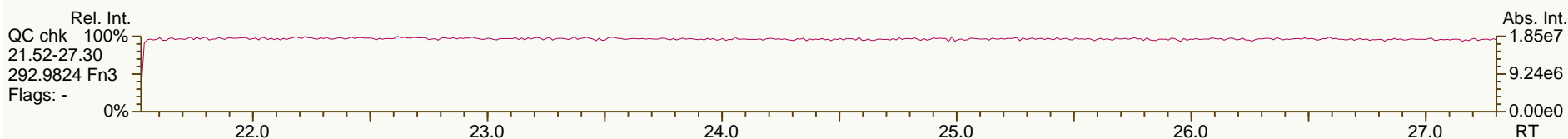
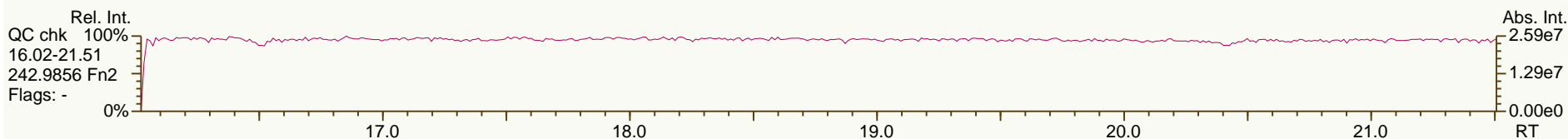
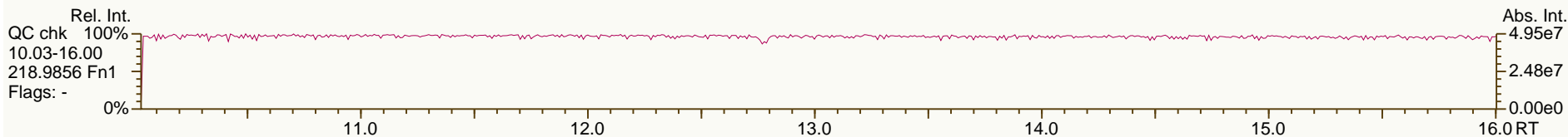
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.34E+08	0.63 Y	1.16	1.16	-0.2%	
PCB-82 22'33'4-PeCB	32.81	3.31E+08	0.62 Y	0.70	0.72	3.0%	
PCB-111 233'55'-PeCB	33.12	5.66E+08	0.62 Y	1.22	1.23	0.5%	
PCB-120 23'455'-PeCB	33.52	5.76E+08	0.62 Y	1.21	1.25	2.9%	
PCB-107/124 ...-PeCB	34.49	1.03E+09	0.62 Y	1.10	1.12	2.0%	
PCB-109 233'46-PeCB	34.70	5.82E+08	0.62 Y	1.25	1.26	0.6%	
PCB-106 233'45-PeCB	34.92	5.22E+08	0.62 Y	1.11	1.13	2.4%	
PCB-122 233'4'5'-PeCB	35.38	4.75E+08	0.63 Y	0.99	1.02	2.2%	
PCB-127 33'455'-PeCB	37.34	5.12E+08	0.63 Y	1.10	1.12	2.2%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-152 22'3566'-HxCB	30.82	4.78E+08	1.27 Y	1.17	1.23	5.1%	
PCB-150 22'34'66'-HxCB	30.96	4.68E+08	1.27 Y	1.18	1.21	2.7%	
PCB-136 22'33'66'-HxCB	31.27	4.35E+08	1.27 Y	1.07	1.12	5.1%	
PCB-145 22'3466'-HxCB	31.54	4.41E+08	1.27 Y	1.11	1.14	2.1%	
PCB-148 22'34'56'-HxCB	32.82	3.38E+08	1.27 Y	1.18	1.23	3.8%	
PCB-151/135 ...-HxCB	33.34	6.39E+08	1.28 Y	1.14	1.16	1.9%	
PCB-154 22'44'56'-HxCB	33.55	3.76E+08	1.27 Y	1.34	1.37	1.9%	
PCB-144 22'345'6-HxCB	33.81	3.29E+08	1.28 Y	1.18	1.20	1.2%	
PCB-147/149 ...-HxCB	34.11	6.68E+08	1.27 Y	1.18	1.21	3.2%	
PCB-134 22'33'56-HxCB	34.29	2.65E+08	1.26 Y	0.92	0.96	4.4%	
PCB-143 22'3456'-HxCB	34.37	3.08E+08	1.28 Y	1.13	1.12	-1.0%	
PCB-139/140 ...-HxCB	34.64	6.80E+08	1.27 Y	1.21	1.24	2.6%	
PCB-131 22'33'46-HxCB	34.81	2.87E+08	1.28 Y	1.03	1.04	1.8%	
PCB-142 22'3456-HxCB	34.96	2.82E+08	1.29 Y	0.99	1.03	3.6%	
PCB-132 22'33'46'-HxCB	35.19	2.84E+08	1.30 Y	1.03	1.03	0.3%	
PCB-133 22'33'55'-HxCB	35.59	3.19E+08	1.28 Y	1.13	1.16	2.4%	
PCB-165 233'55'6-HxCB	35.94	3.83E+08	1.28 Y	1.41	1.39	-1.3%	
PCB-146 22'34'55'-HxCB	36.15	3.42E+08	1.27 Y	1.20	1.24	3.4%	
PCB-161 233'45'6-HxCB	36.27	4.26E+08	1.28 Y	1.52	1.55	1.8%	
PCB-153/168 ...-HxCB	36.70	8.26E+08	1.27 Y	1.46	1.50	3.0%	
PCB-141 22'3455'-HxCB	36.85	3.01E+08	1.29 Y	1.09	1.10	0.7%	
PCB-130 22'33'45'-HxCB	37.19	2.69E+08	1.27 Y	0.97	0.98	0.6%	
PCB-137 22'344'5-HxCB	37.39	3.35E+08	1.27 Y	1.16	1.22	4.6%	
PCB-164 233'4'5'6-HxCB	37.47	4.16E+08	1.29 Y	1.50	1.51	0.9%	
PCB-163/138/129 ...-HxCB	37.76	1.01E+09	1.27 Y	1.19	1.23	3.3%	
PCB-160 233'456-HxCB	37.90	4.29E+08	1.27 Y	1.52	1.56	2.8%	
PCB-158 233'44'6-HxCB	38.09	4.60E+08	1.28 Y	1.66	1.67	0.5%	
PCB-128/166 ...-HxCB	38.82	7.86E+08	1.23 Y	0.90	0.93	3.7%	
PCB-159 233'455'-HxCB	39.64	4.70E+08	1.23 Y	1.11	1.12	0.1%	
PCB-162 233'4'55'-HxCB	39.88	4.62E+08	1.22 Y	1.07	1.10	2.4%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-179 22'33'566'-HpCB	35.83	2.67E+08	1.10 Y	1.16	1.16	-0.3%	
PCB-184 22'344'66'-HpCB	36.30	2.61E+08	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	2.85E+08	1.09 Y	1.23	1.24	0.3%	
PCB-186 22'34566'-HpCB	36.99	2.59E+08	1.08 Y	1.13	1.12	-0.3%	
PCB-178 22'33'55'6'-HpCB	38.12	1.94E+08	1.08 Y	0.84	0.84	-0.6%	
PCB-175 22'33'45'6'-HpCB	38.67	3.05E+08	1.06 Y	1.07	1.10	2.1%	
PCB-187 22'34'55'6'-HpCB	38.90	3.25E+08	1.06 Y	1.14	1.17	2.6%	
PCB-182 22'344'56'-HpCB	39.08	3.35E+08	1.06 Y	1.18	1.21	2.7%	
PCB-183 22'344'5'6'-HpCB	39.42	3.29E+08	1.05 Y	1.20	1.18	-1.8%	
PCB-185 22'3455'6'-HpCB	39.51	3.20E+08	1.06 Y	1.06	1.15	8.5%	
PCB-174 22'33'456'-HpCB	39.62	2.73E+08	1.06 Y	0.99	0.98	-0.9%	
PCB-177 22'33'45'6'-HpCB	39.99	2.68E+08	1.06 Y	0.95	0.96	1.4%	
PCB-181 22'344'56'-HpCB	40.34	3.10E+08	1.06 Y	1.09	1.12	2.5%	
PCB-171/173 ...-HpCB	40.53	5.43E+08	1.06 Y	0.95	0.98	3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.79E+08	1.06 Y	0.99	1.00	1.6%	
PCB-192 233'455'6'-HpCB	42.13	3.67E+08	1.06 Y	1.29	1.32	2.6%	
PCB-180/193 ...-HpCB	42.40	7.06E+08	1.06 Y	1.26	1.27	0.7%	
PCB-191 233'44'5'6'-HpCB	42.74	3.88E+08	1.06 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.51	2.72E+08	1.05 Y	1.14	1.19	4.9%	
PCB-190 233'44'56'-HpCB	43.96	3.86E+08	1.06 Y	1.66	1.69	1.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-201 22'33'45'66'-OcCB	40.89	3.08E+08	0.92 Y	1.22	1.27	4.3%	
PCB-204 22'344'566'-OcCB	41.47	2.70E+08	0.92 Y	1.12	1.12	0.3%	
PCB-197 22'33'44'66'-OcCB	41.66	2.93E+08	0.91 Y	1.19	1.21	1.7%	
PCB-200 22'33'4566'-OcCB	41.75	2.71E+08	0.92 Y	1.11	1.12	1.3%	
PCB-198/199 ...-OcCB	44.07	3.95E+08	0.91 Y	0.81	0.82	0.9%	
PCB-196 22'33'44'56'-OcCB	44.65	2.03E+08	0.92 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.82	2.13E+08	0.92 Y	0.87	0.88	1.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.31E+08	0.91 Y	0.77	0.77	0.4%	
PCB-194 22'33'44'55'-OcCB	47.90	2.54E+08	0.92 Y	0.84	0.85	0.4%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-207 22'33'44'566'-NoCB	46.53	3.40E+08	0.79 Y	1.19	1.20	1.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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User: LKB Datafile: 131220X06

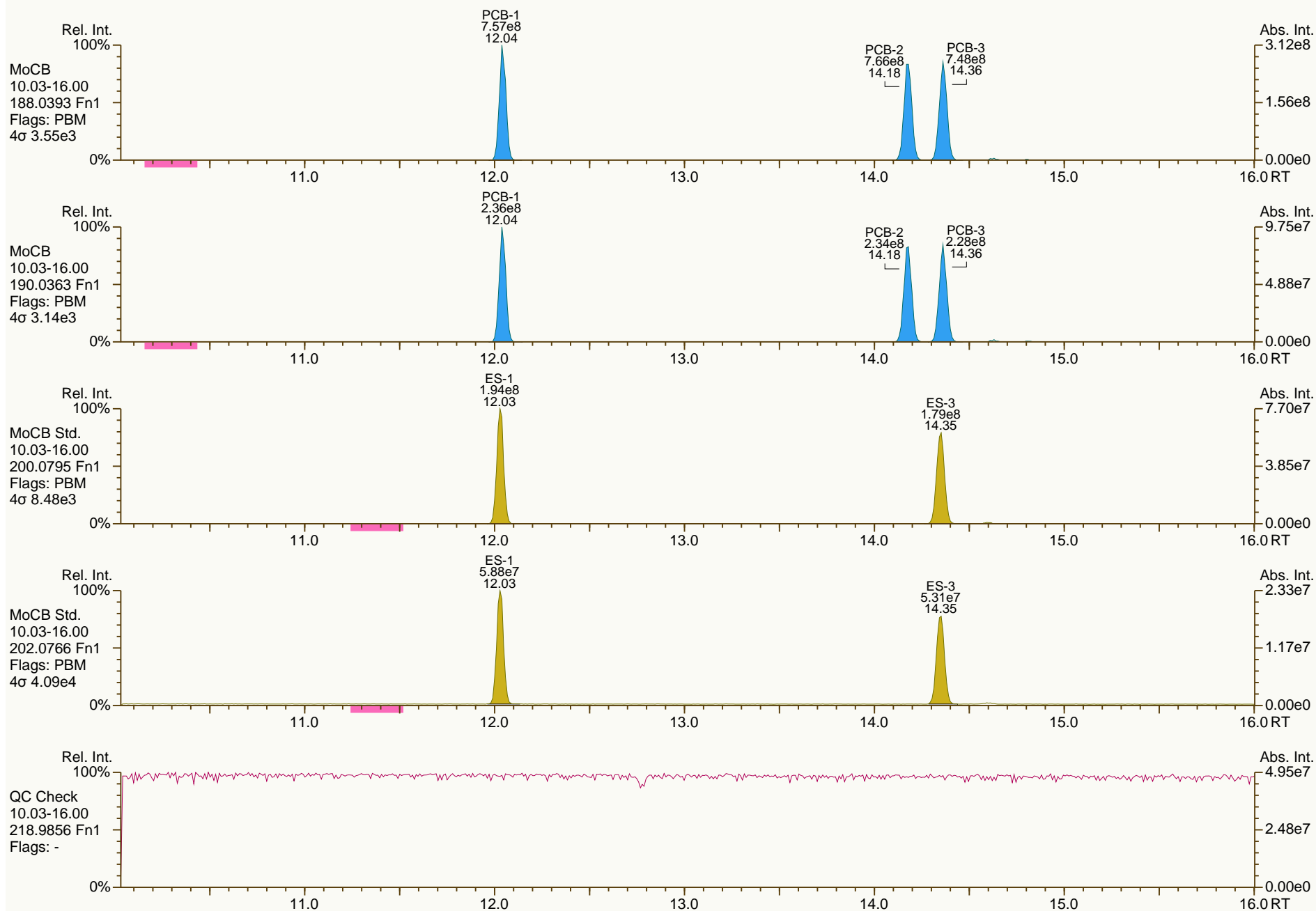




SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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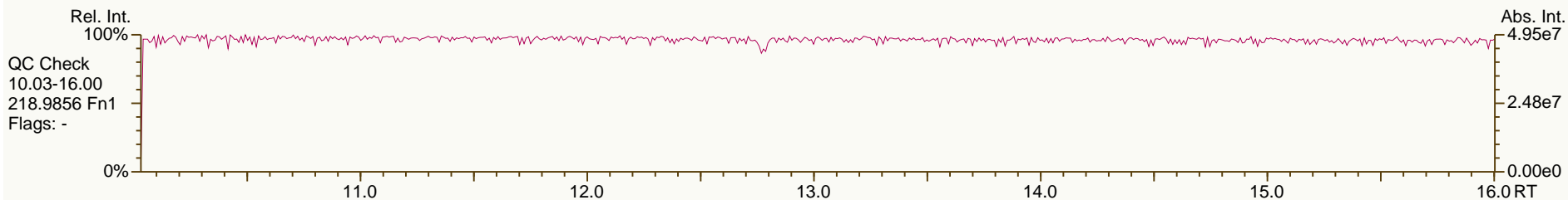
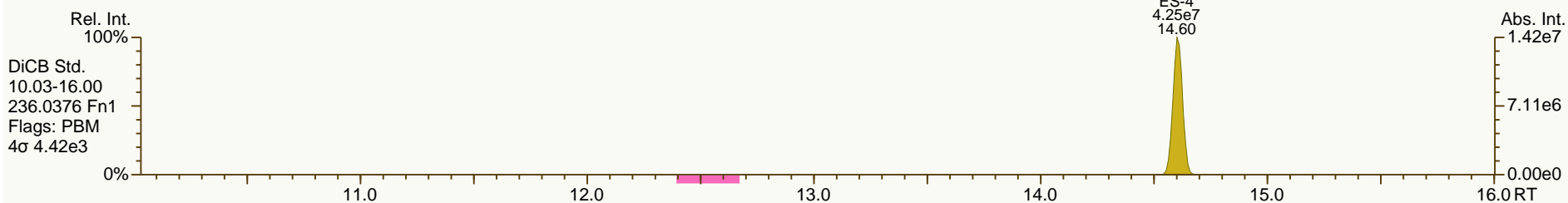
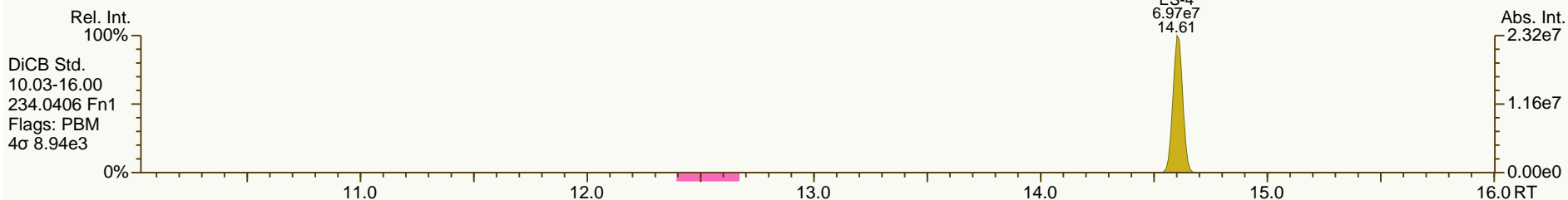
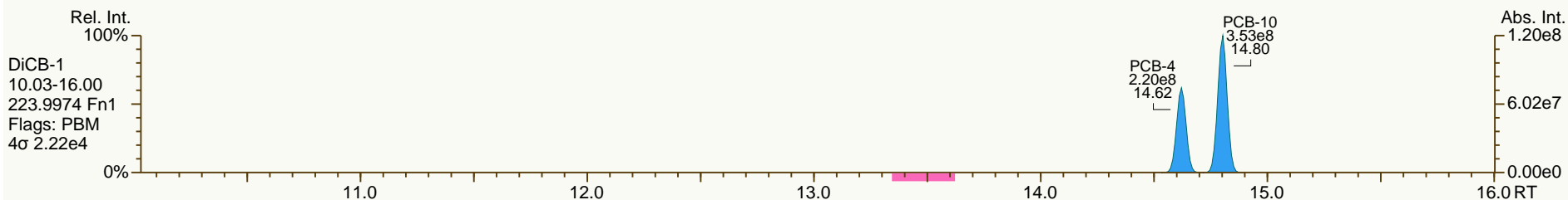
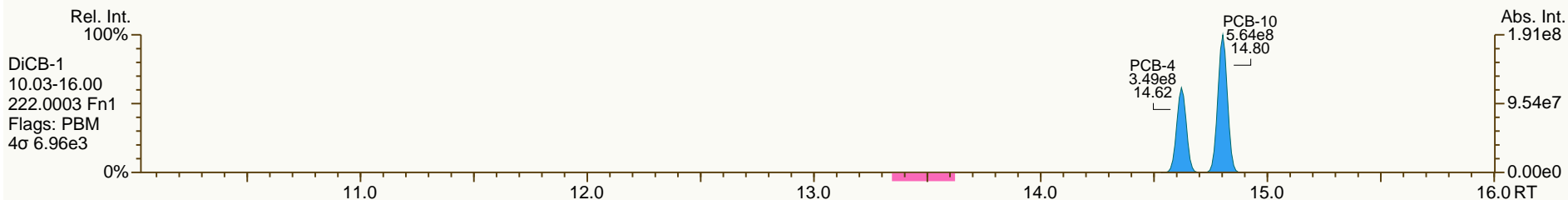
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

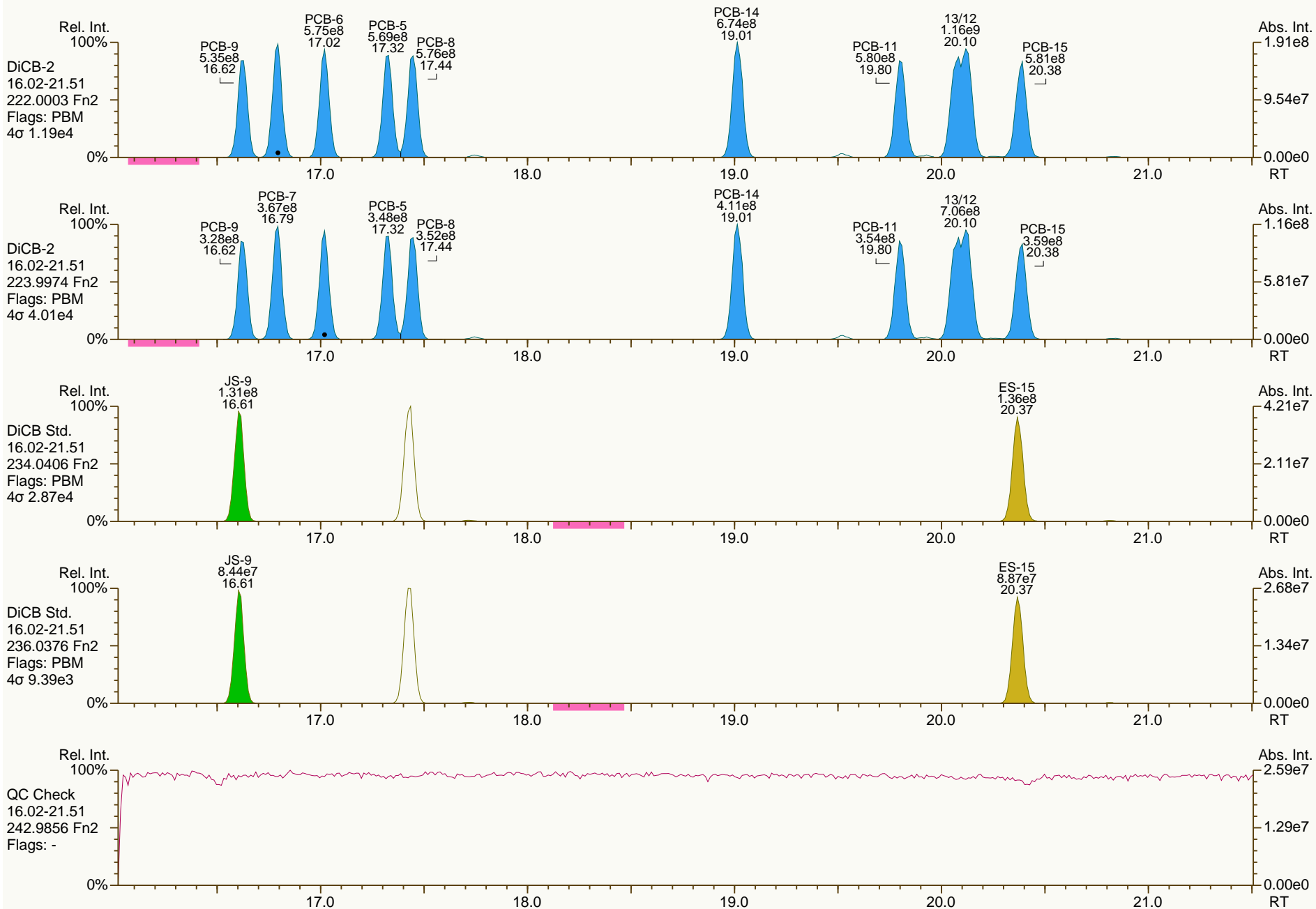
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

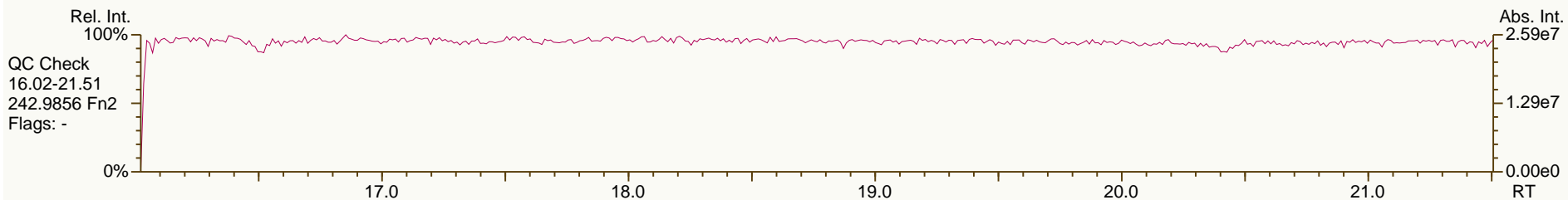
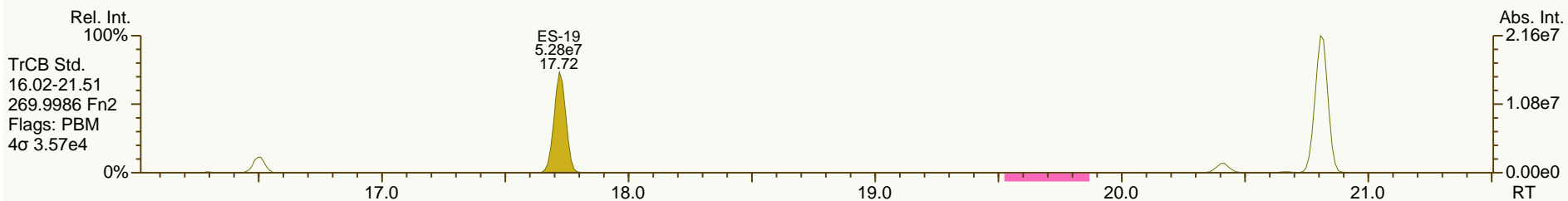
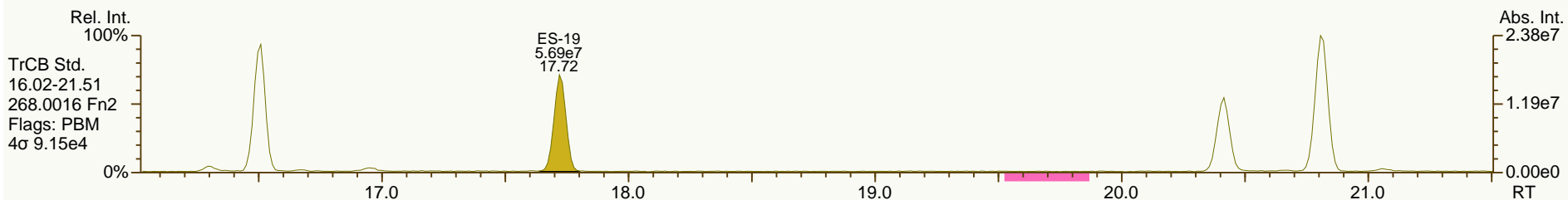
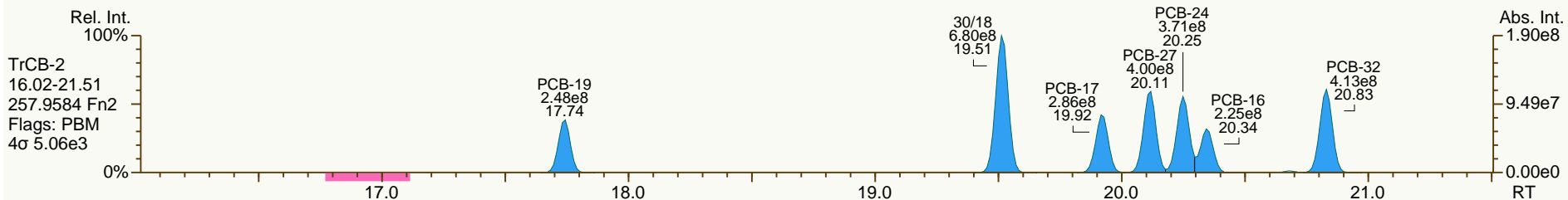
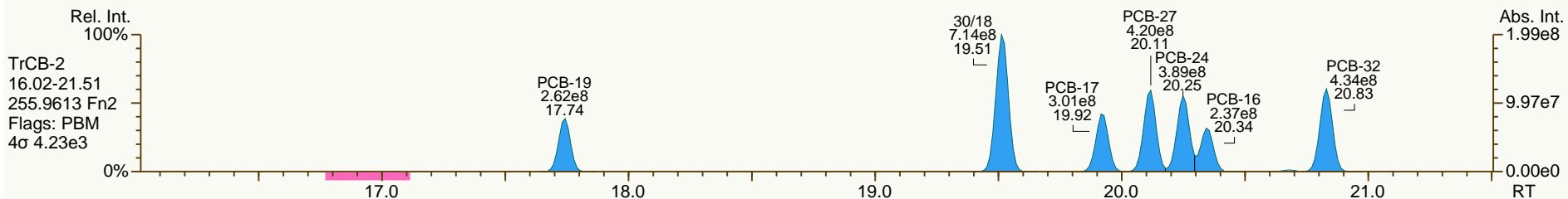
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

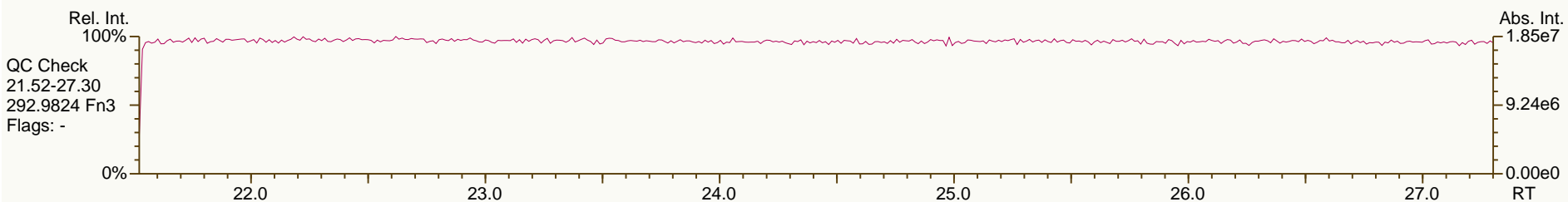
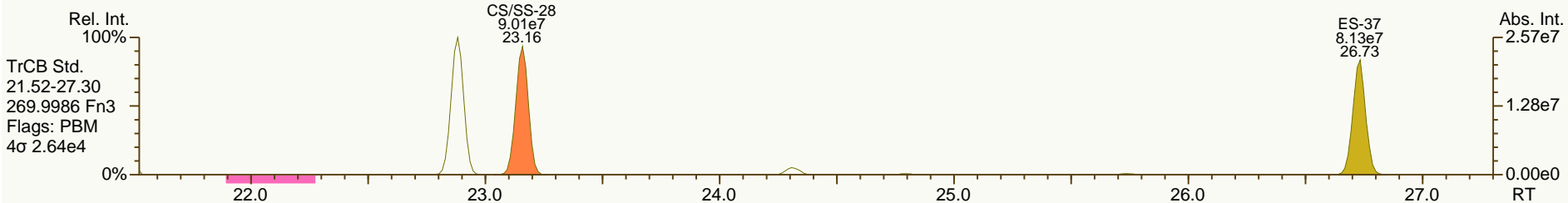
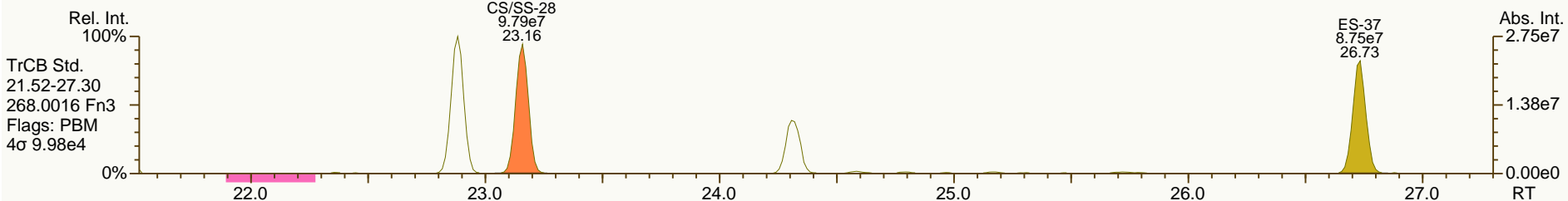
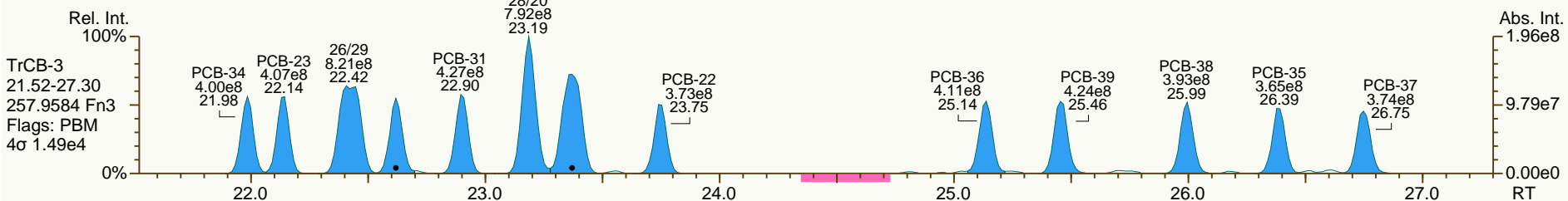
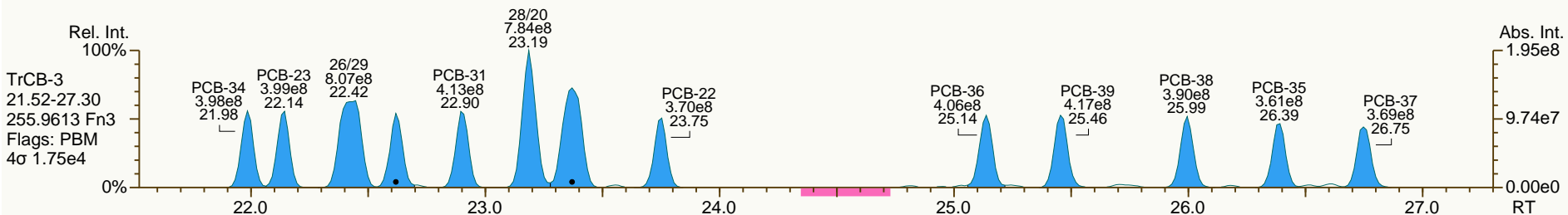
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SGS-AP ID: CS4\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-2  
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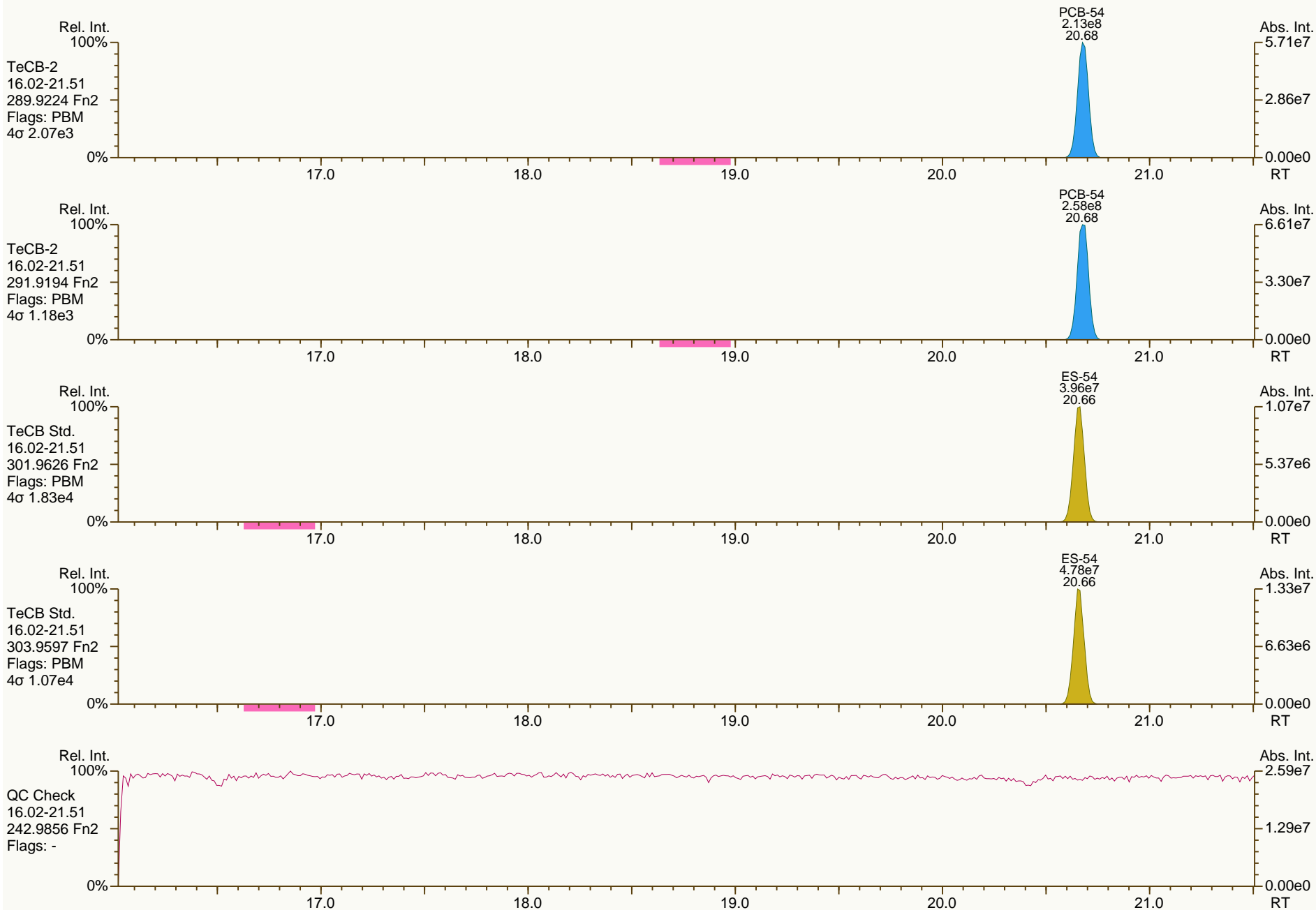
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Sample ID: SIL 13-79-2  
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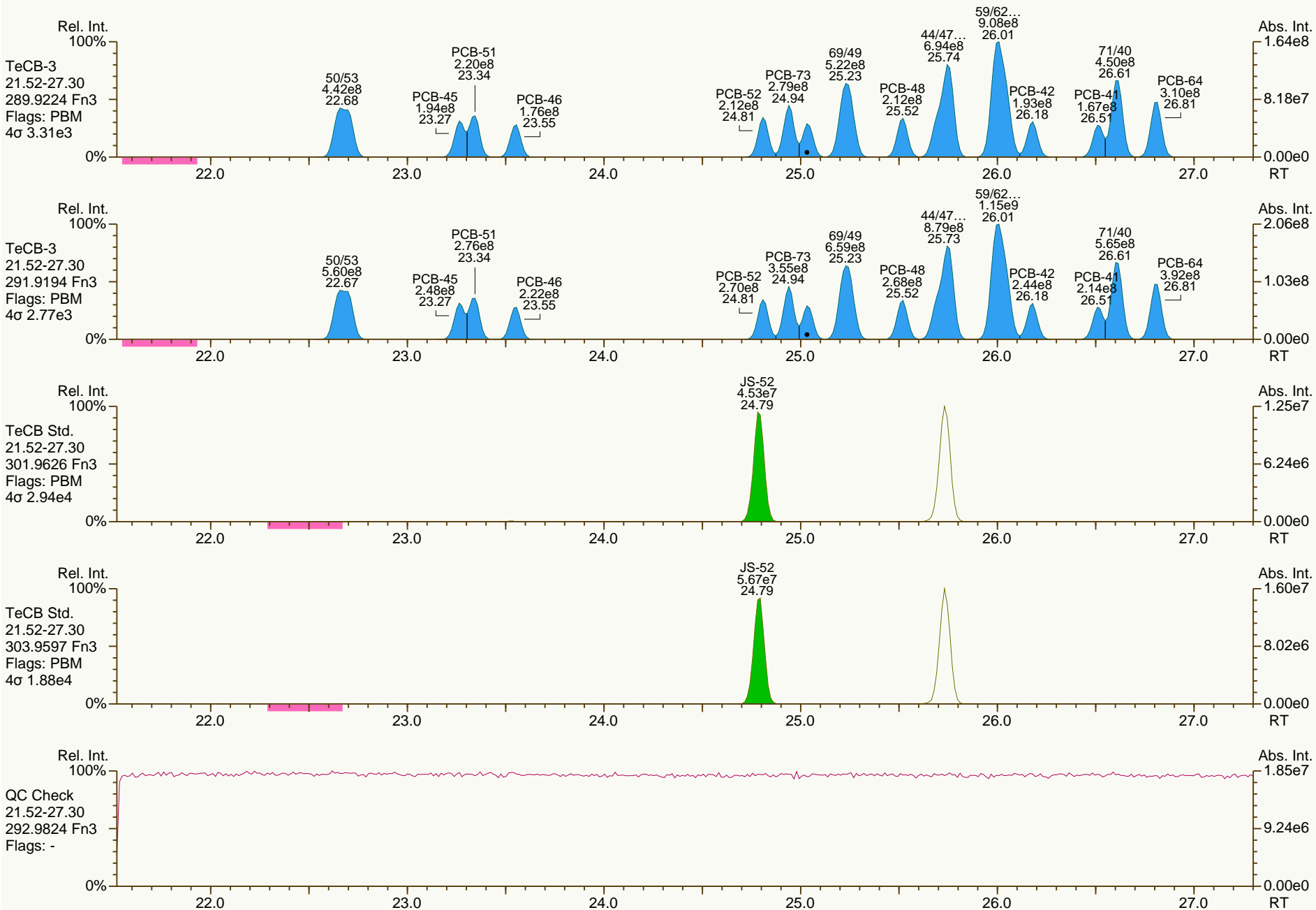
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

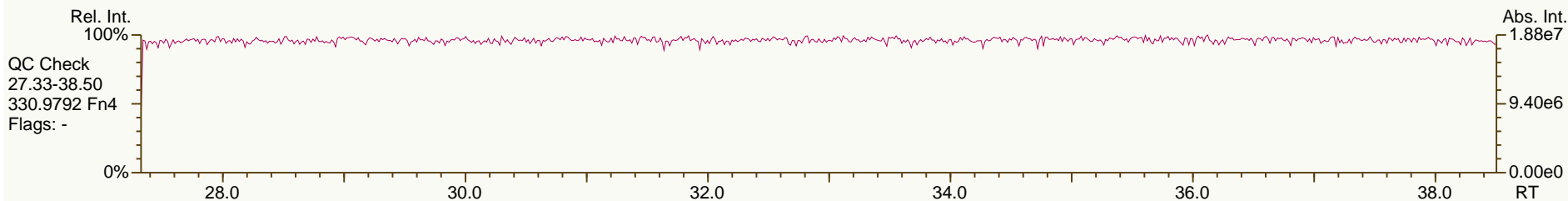
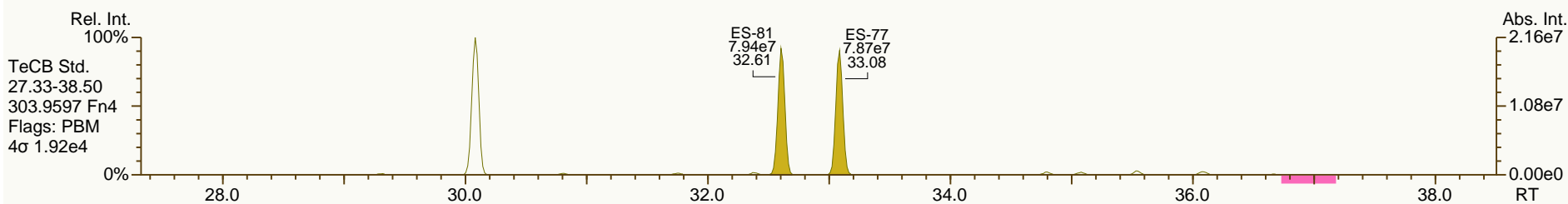
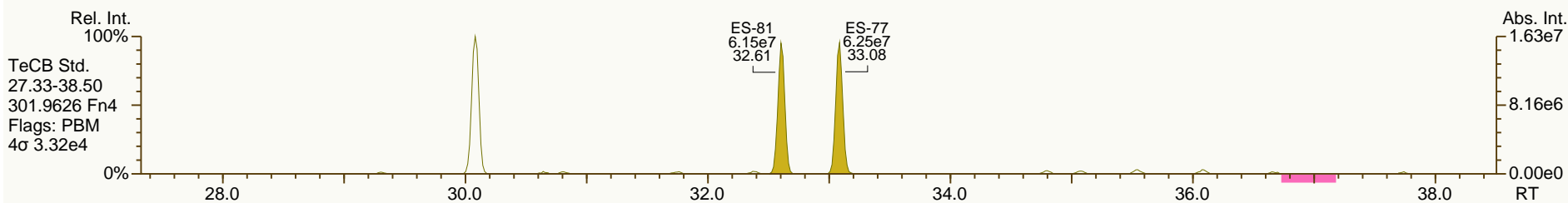
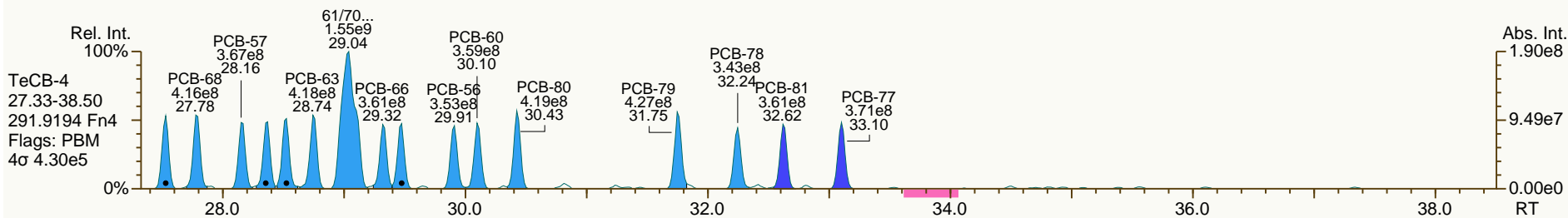
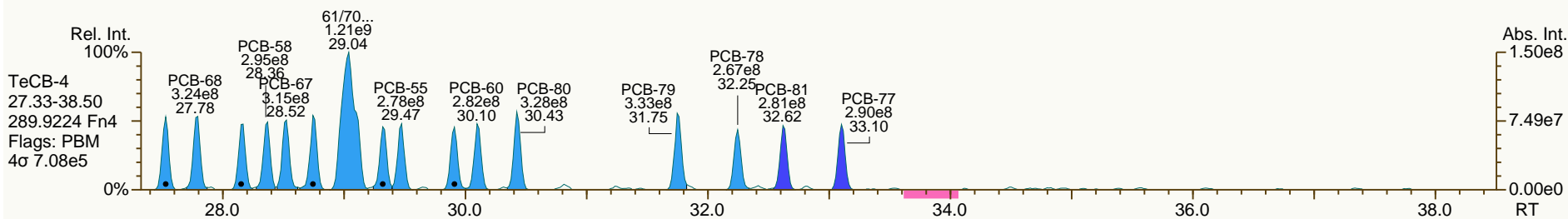
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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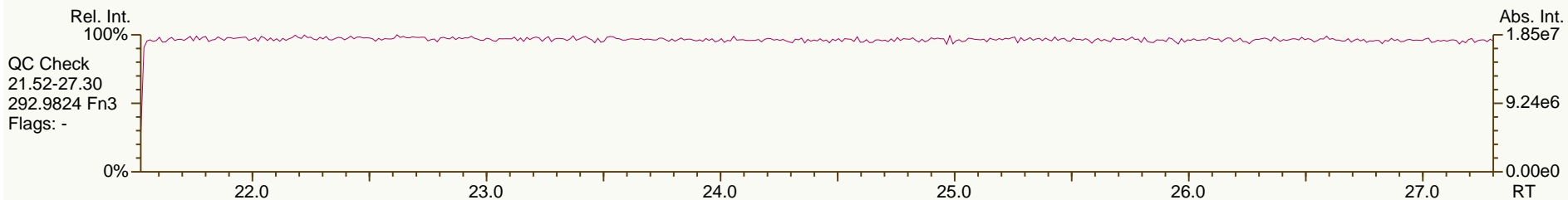
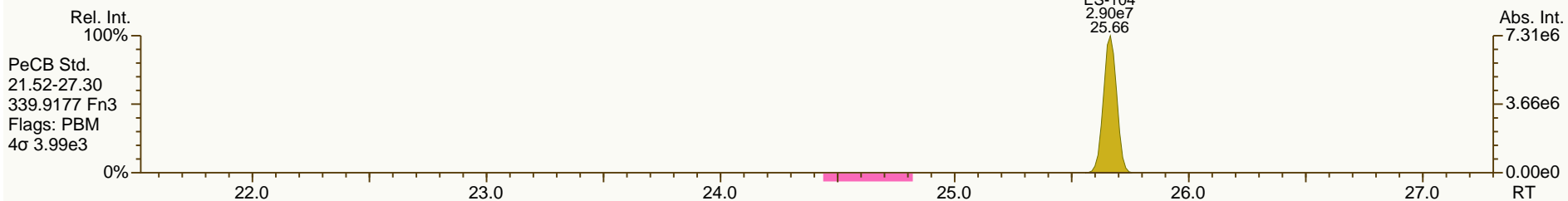
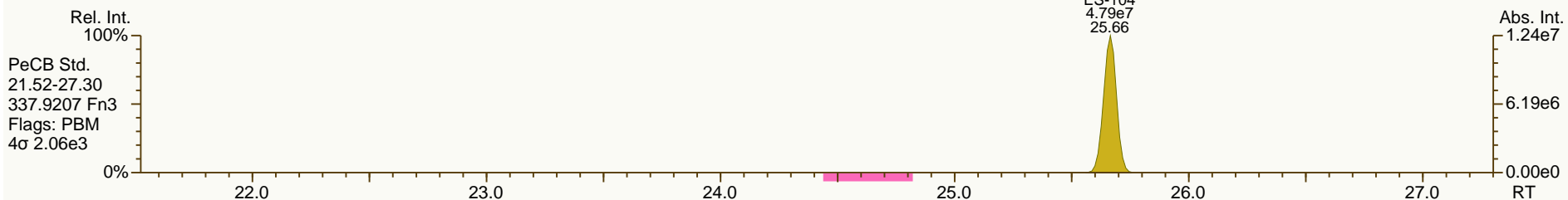
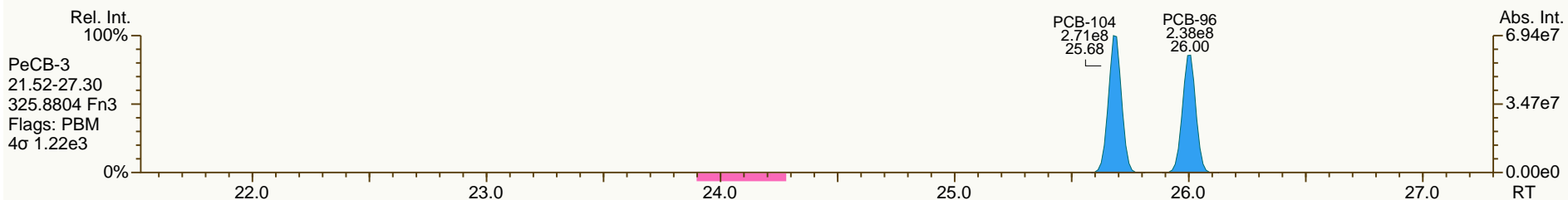
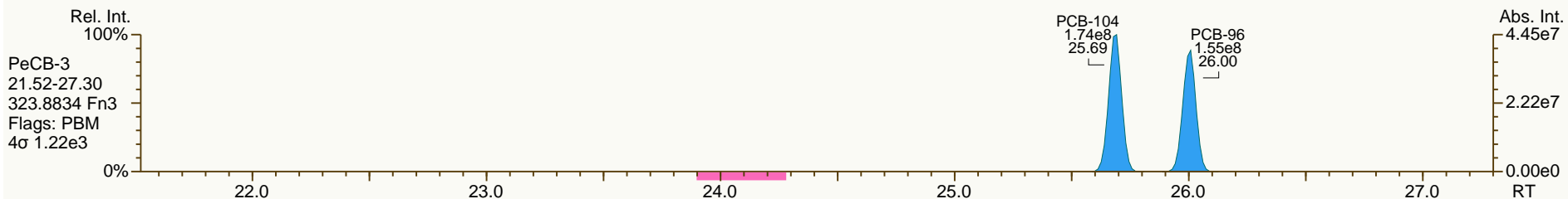




SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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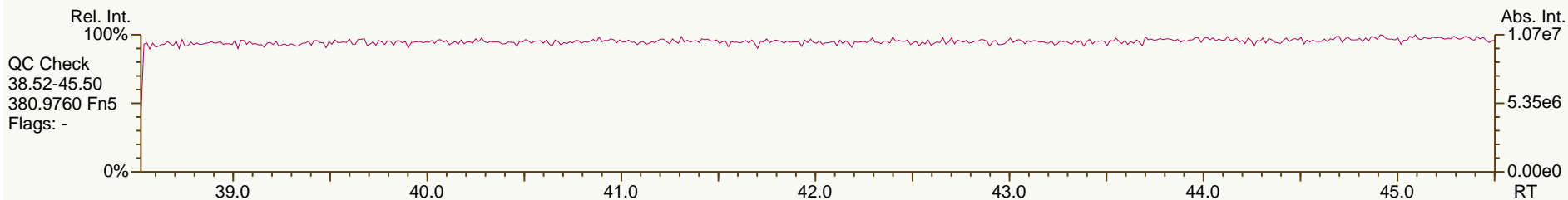
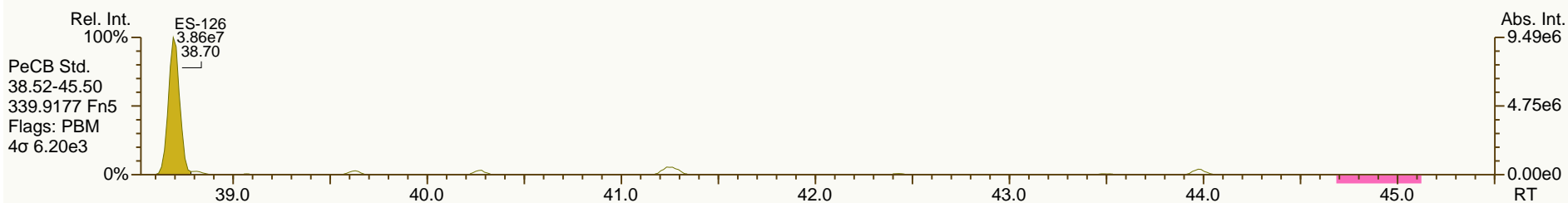
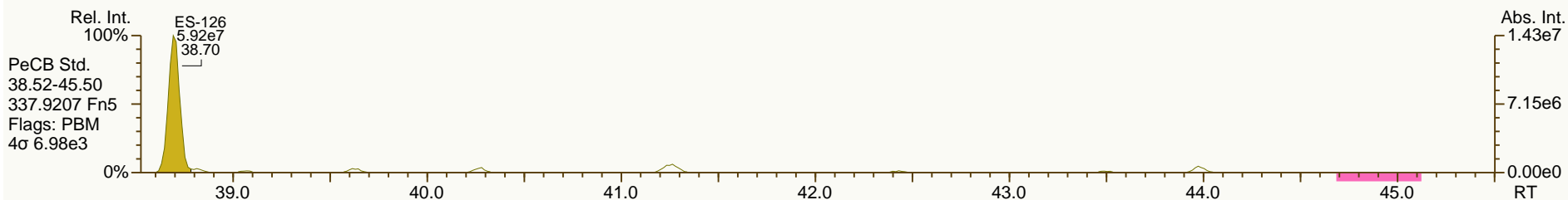
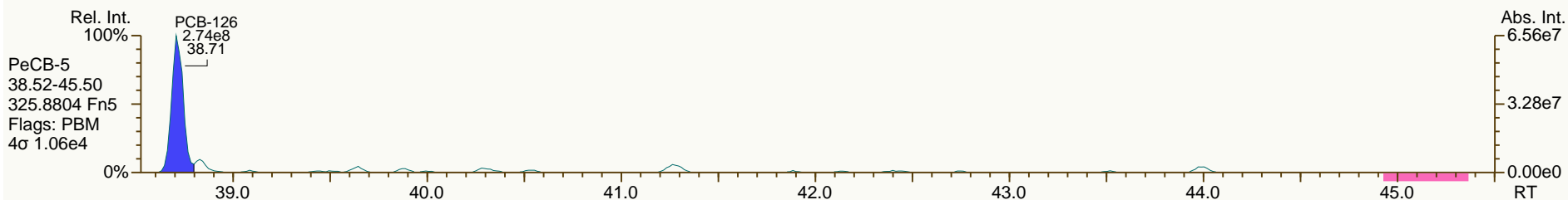
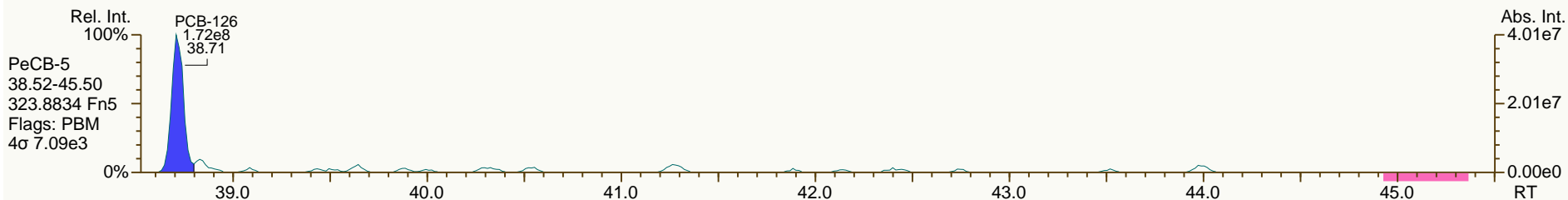
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Sample ID: SIL 13-79-2  
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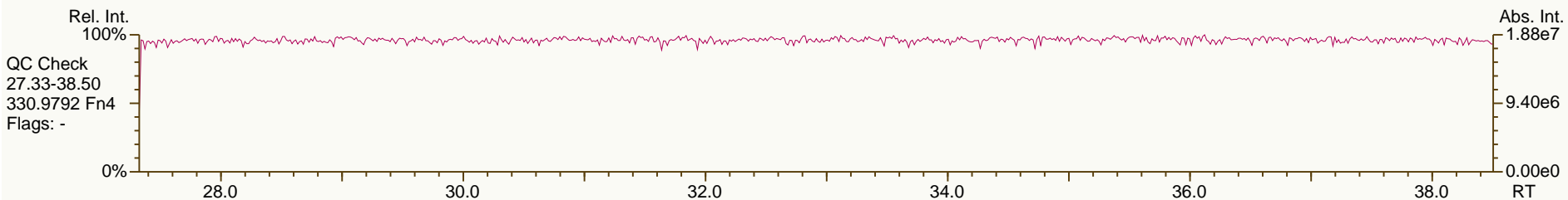
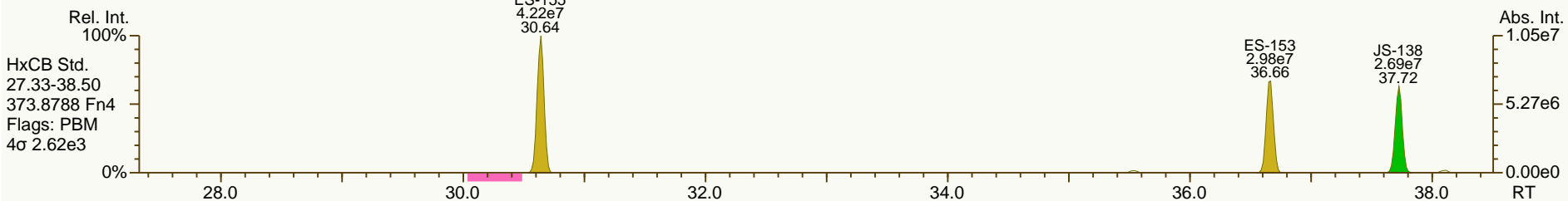
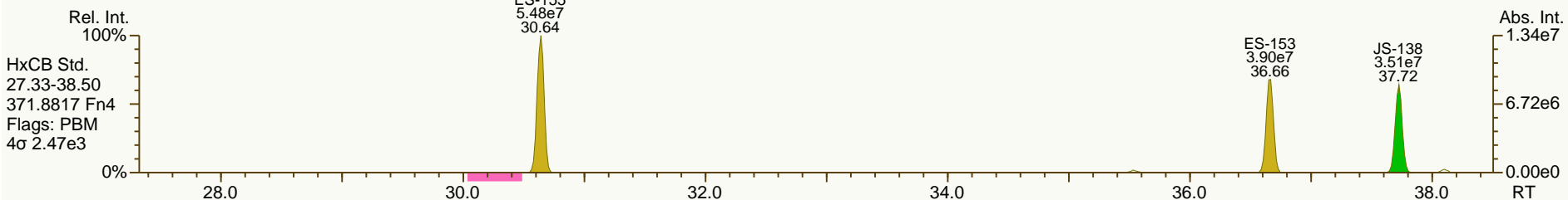
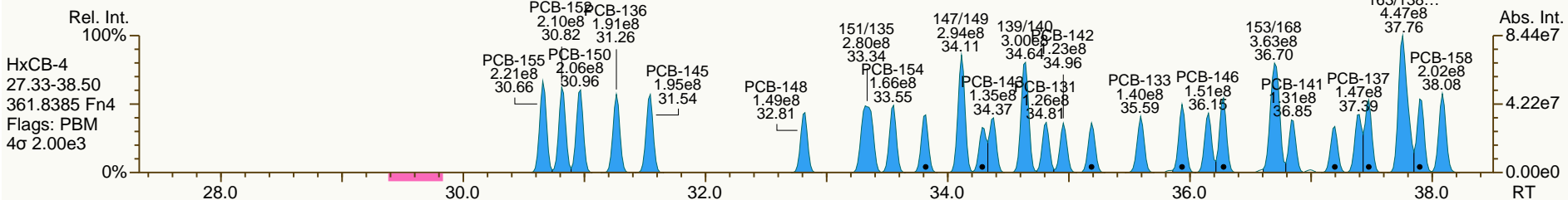
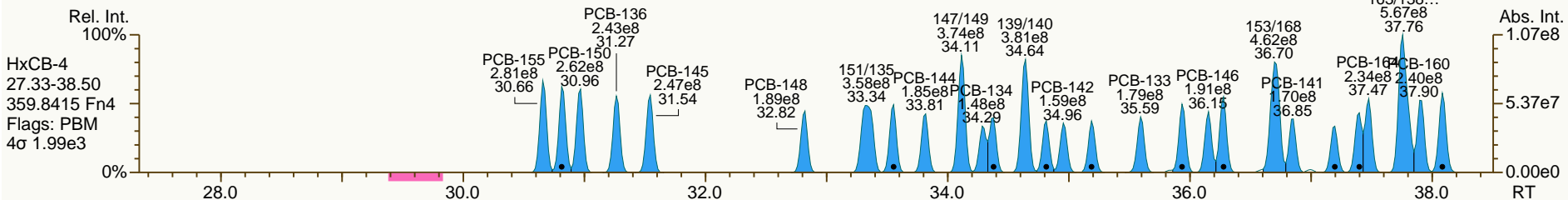
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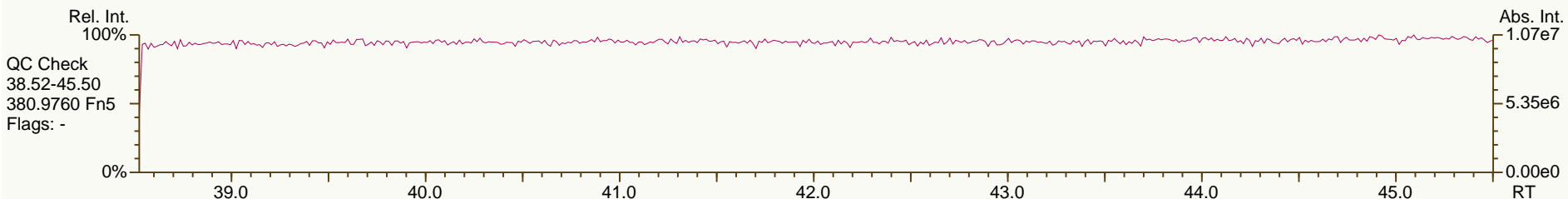
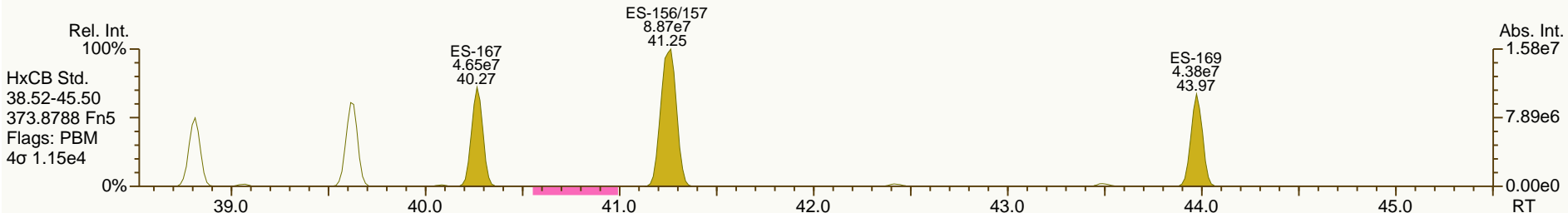
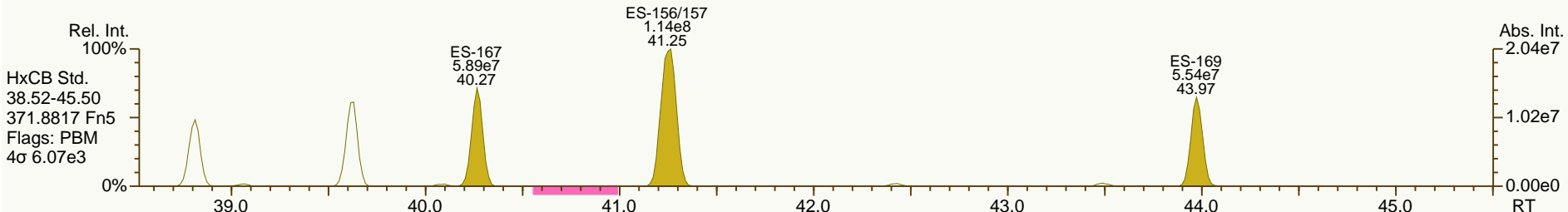
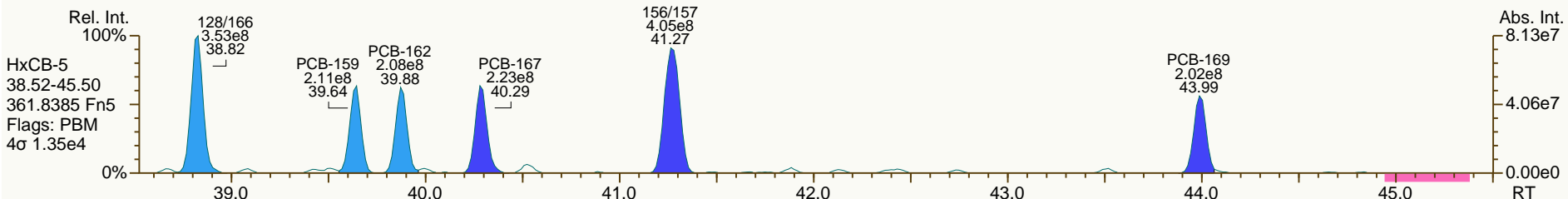
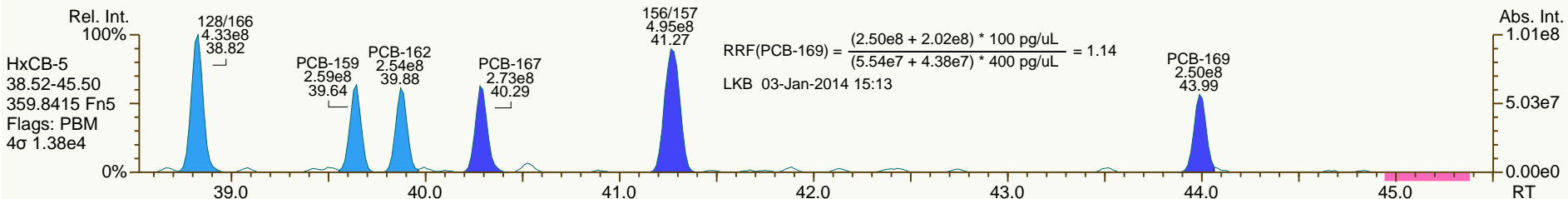
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User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

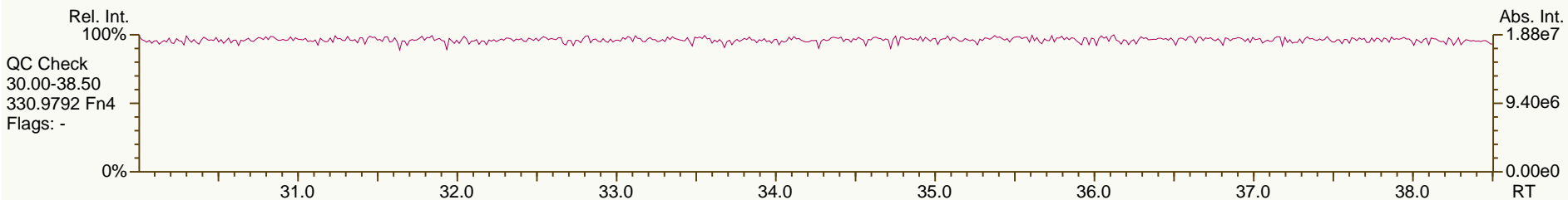
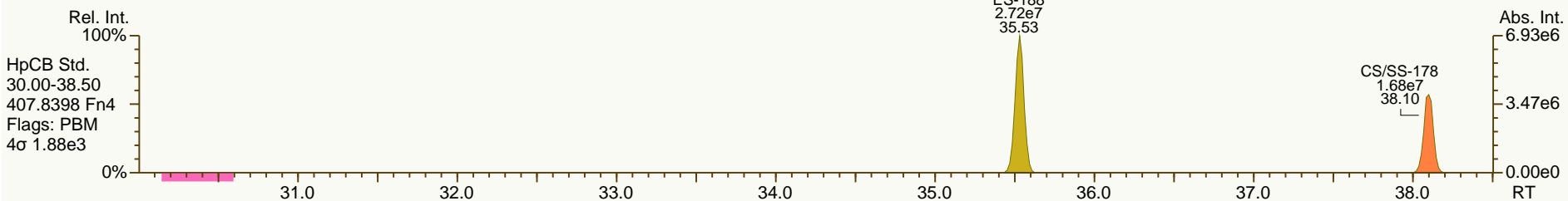
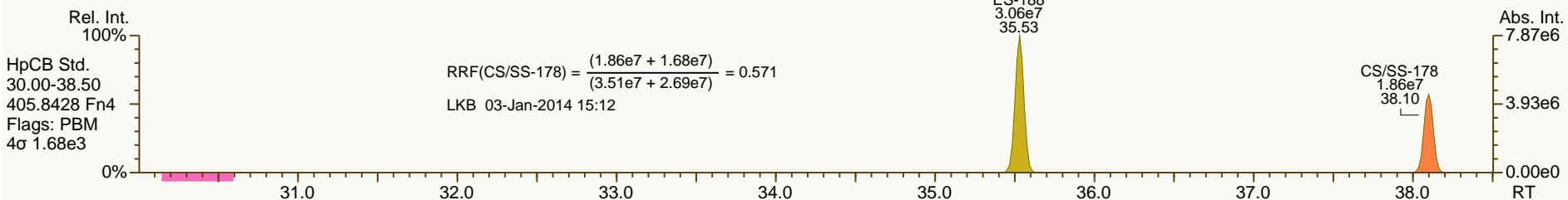
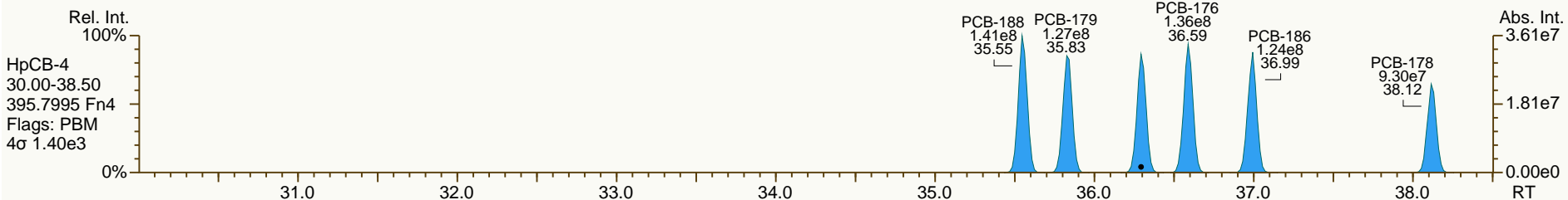
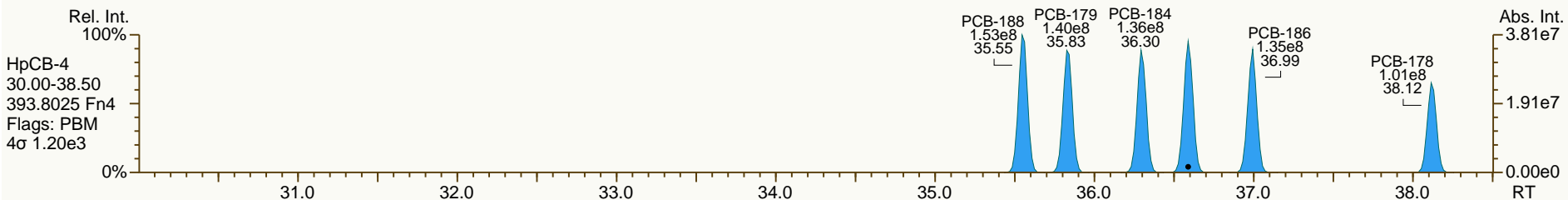
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

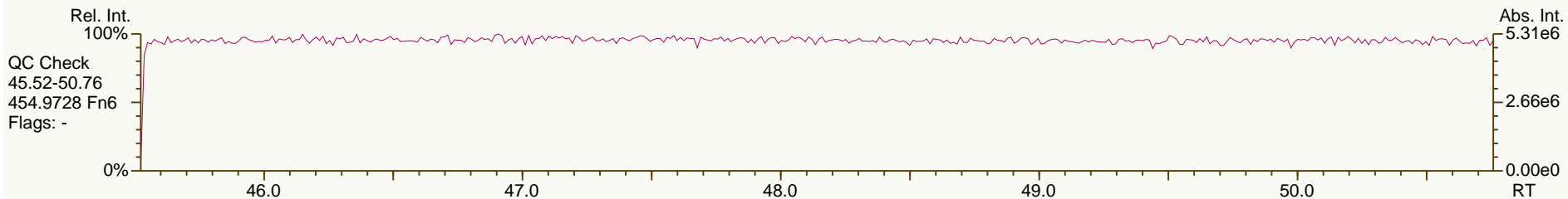
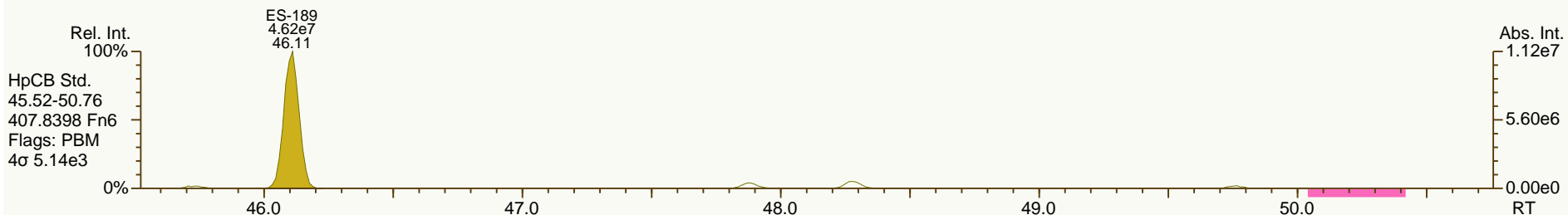
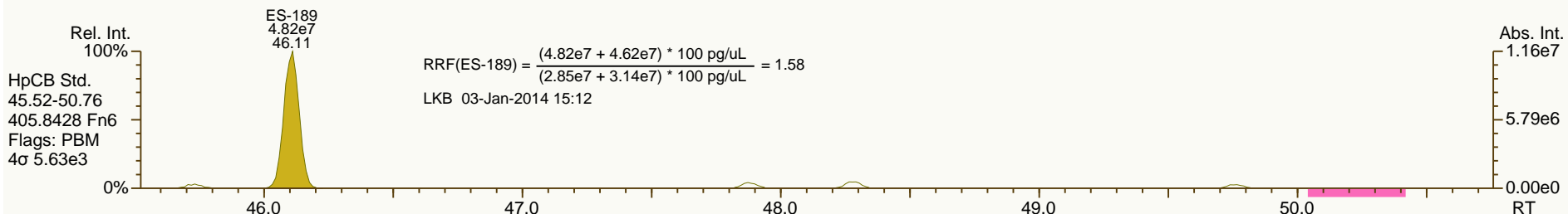
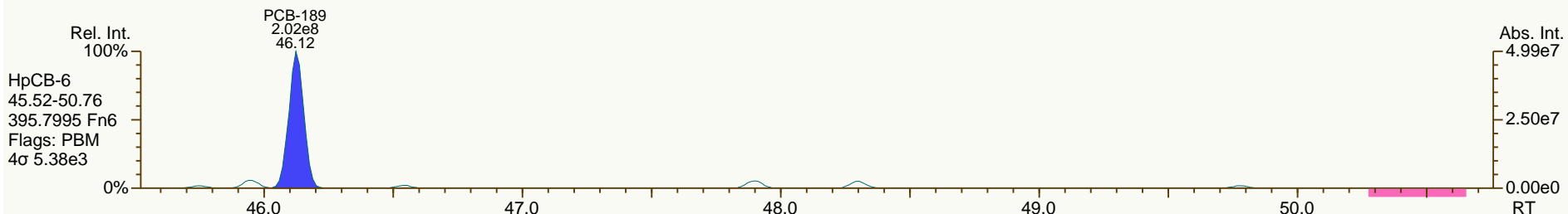
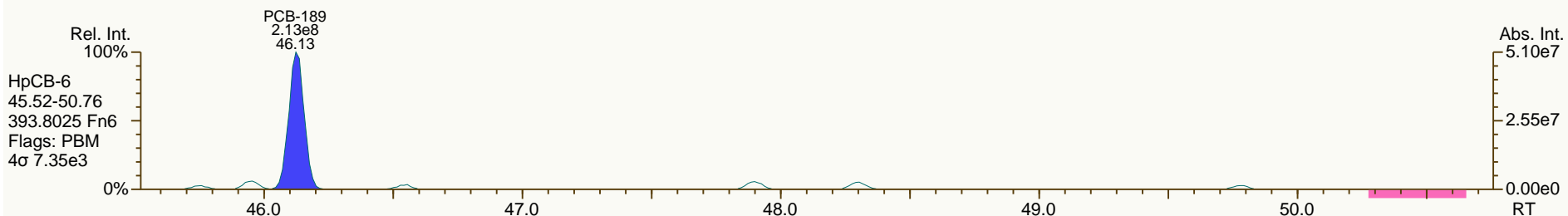
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 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06





SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

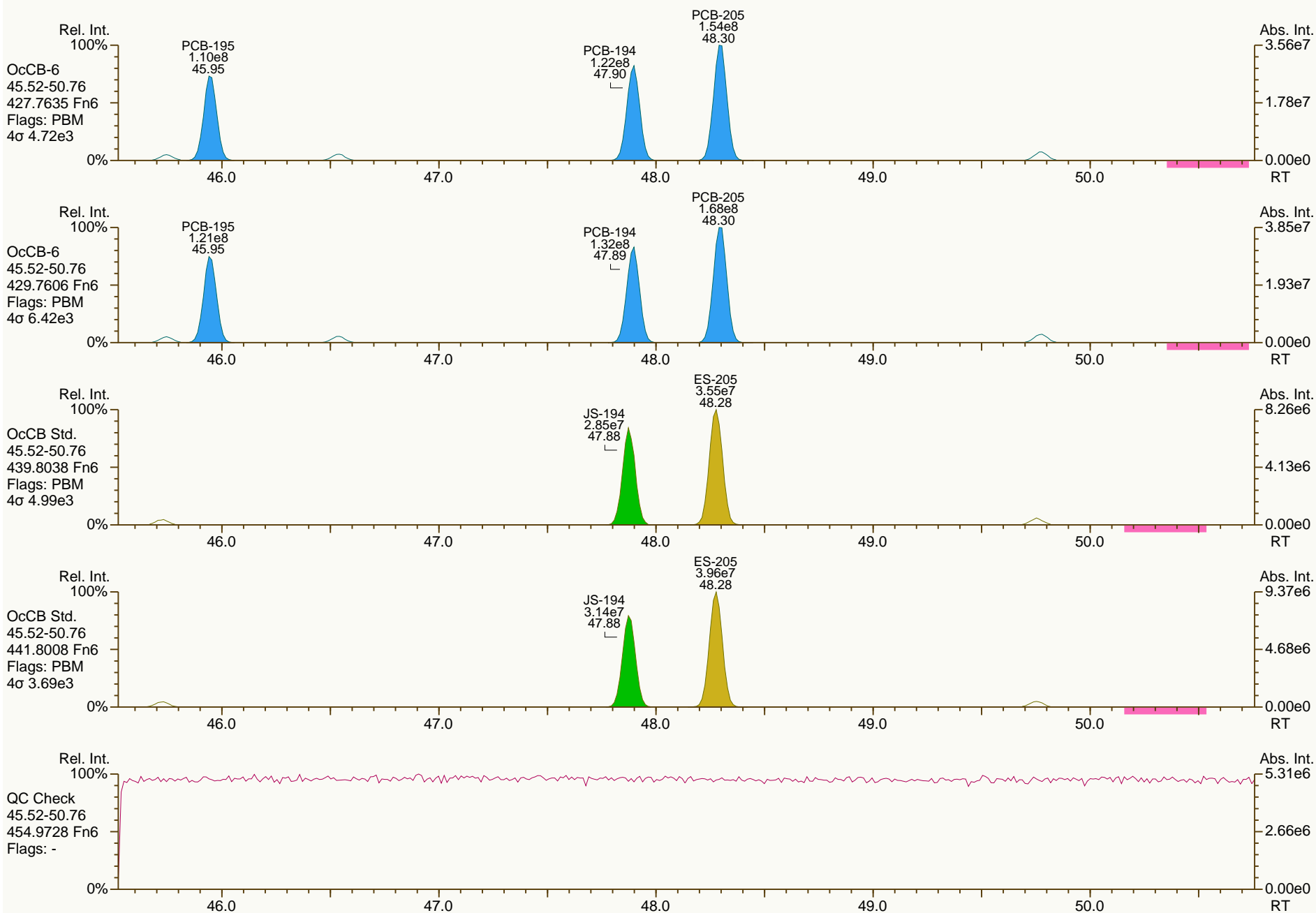
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

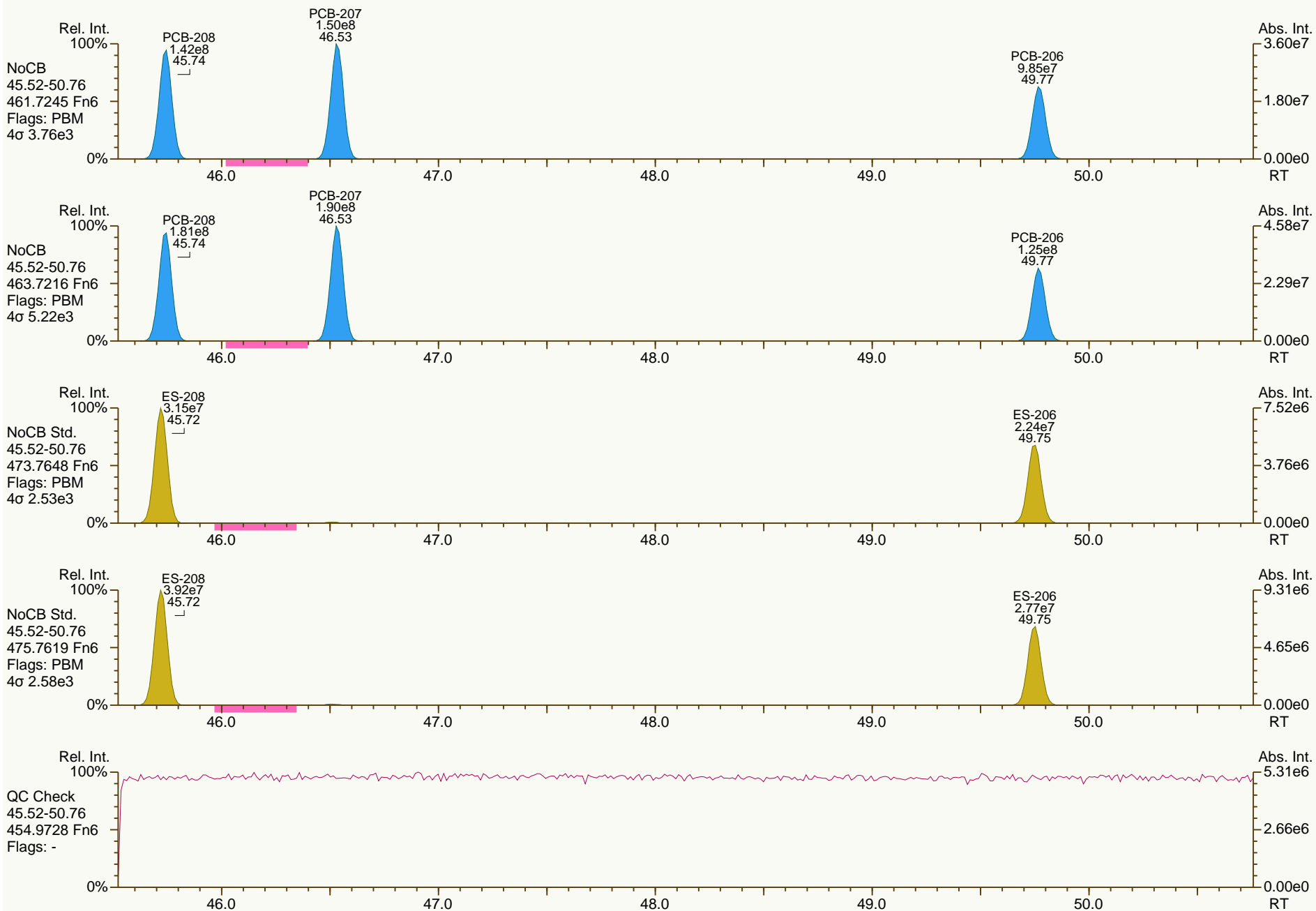
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

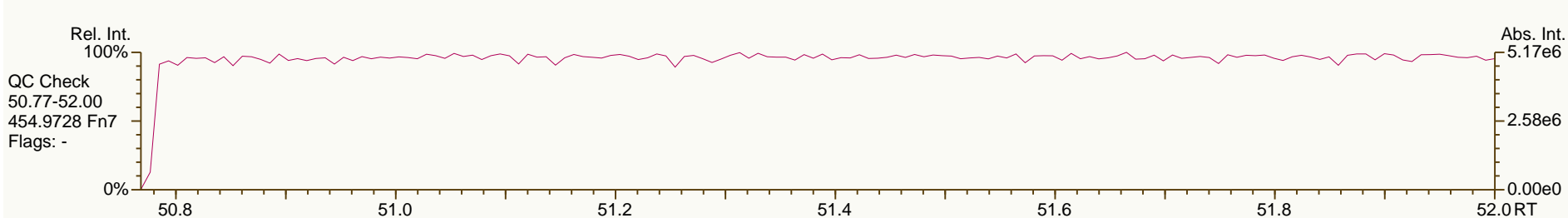
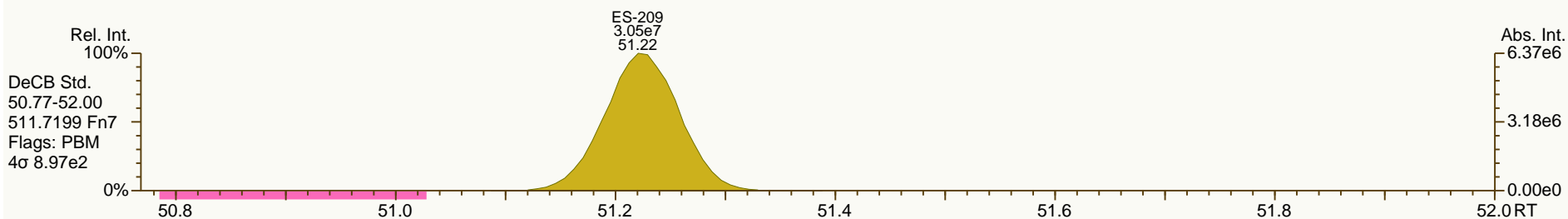
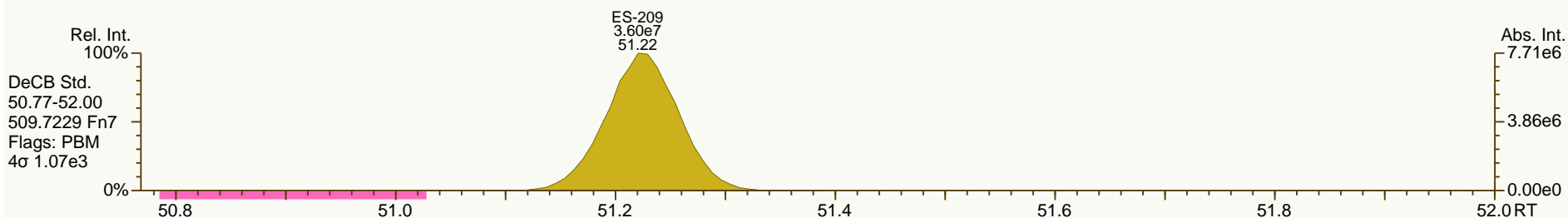
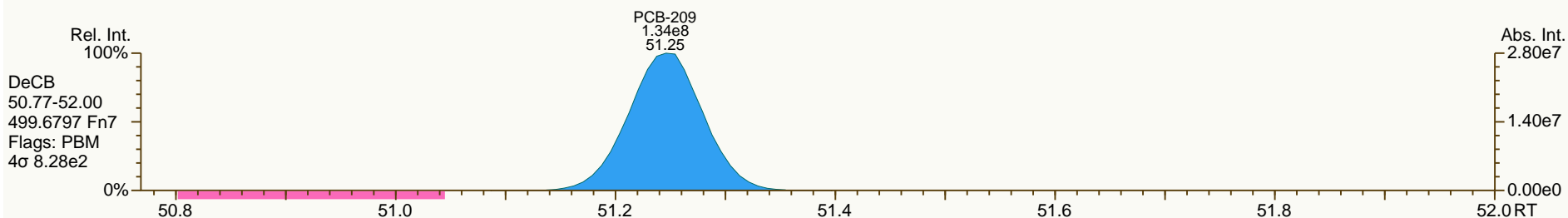
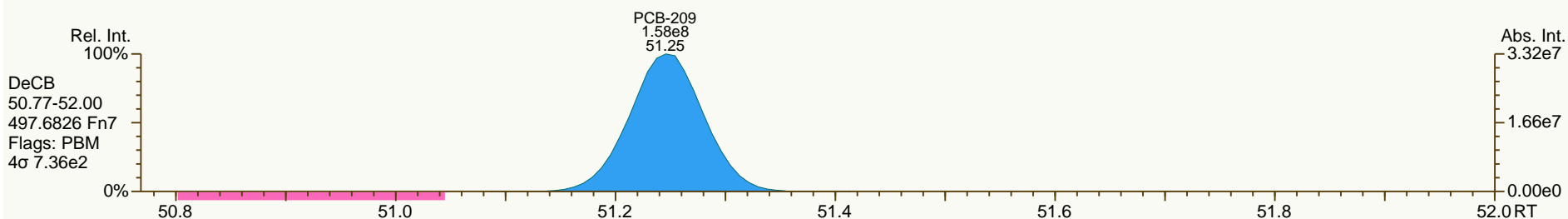
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 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
User: LKB Datafile: 131220X06



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	3.92E+09	0.79 Y	1.15	1.22	6.1%	
PCB-81 344'5'-TeCB	32.63	3.81E+09	0.78 Y	1.12	1.17	4.4%	
PCB-105 233'44'-PeCB	36.10	3.11E+09	0.62 Y	1.11	1.18	5.9%	
PCB-114 2344'5'-PeCB	35.56	3.45E+09	0.63 Y	1.20	1.29	6.9%	
PCB-118 23'44'5'-PeCB	35.09	3.20E+09	0.63 Y	1.19	1.25	4.7%	
PCB-123 23'44'5'-PeCB	34.82	3.32E+09	0.62 Y	1.21	1.25	3.0%	
PCB-126 33'44'5'-PeCB	38.72	2.76E+09	0.63 Y	1.11	1.21	9.8%	
PCB-156/157 ...-HxCB	41.27	5.55E+09	1.23 Y	1.10	1.17	6.3%	
PCB-167 23'44'55'-HxCB	40.29	3.01E+09	1.22 Y	1.16	1.23	5.8%	
PCB-169 33'44'55'-HxCB	43.99	2.75E+09	1.24 Y	1.12	1.17	4.3%	
PCB-189 233'44'55'-HpCB	46.12	2.52E+09	1.05 Y	1.07	1.16	7.9%	
PCB-209 DeCB	51.24	1.71E+09	1.18 Y	1.11	1.15	3.3%	
ES PCB-1	12.03	2.62E+08	3.21 Y	1.19	1.13	-5.6%	
ES PCB-3	14.35	2.47E+08	3.30 Y	1.09	1.06	-2.3%	
ES PCB-4	14.61	1.23E+08	1.63 Y	0.52	0.53	0.9%	
ES PCB-15	20.38	2.45E+08	1.53 Y	1.04	1.05	1.3%	
ES PCB-19	17.73	1.20E+08	1.07 Y	0.51	0.52	2.2%	
ES PCB-37	26.74	1.94E+08	1.09 Y	1.66	1.69	1.6%	
ES PCB-54	20.67	9.79E+07	0.83 Y	0.86	0.85	-0.9%	
ES PCB-77	33.09	1.61E+08	0.79 Y	1.38	1.40	1.2%	
ES PCB-81	32.61	1.63E+08	0.79 Y	1.37	1.42	4.0%	
ES PCB-104	25.67	8.86E+07	1.66 Y	0.80	0.78	-2.5%	
ES PCB-105	36.08	1.32E+08	1.58 Y	1.20	1.17	-2.9%	
ES PCB-114	35.54	1.34E+08	1.60 Y	1.22	1.19	-2.5%	
ES PCB-118	35.07	1.28E+08	1.60 Y	1.16	1.14	-1.9%	
ES PCB-123	34.79	1.33E+08	1.59 Y	1.19	1.18	-0.8%	
ES PCB-126	38.70	1.14E+08	1.54 Y	1.03	1.01	-2.2%	
ES PCB-153	36.66	8.16E+07	1.32 Y	1.11	1.10	-1.2%	
ES PCB-155	30.64	1.13E+08	1.29 Y	1.59	1.52	-4.1%	
ES PCB-156/157	41.25	2.38E+08	1.27 Y	1.60	1.61	0.4%	
ES PCB-167	40.27	1.22E+08	1.26 Y	1.67	1.65	-1.0%	
ES PCB-169	43.97	1.17E+08	1.27 Y	1.56	1.58	1.8%	
ES PCB-170	43.49	6.70E+07	1.09 Y	0.95	0.97	2.9%	
ES PCB-180	42.42	8.32E+07	1.09 Y	1.14	1.21	6.3%	
ES PCB-188	35.53	6.88E+07	1.10 Y	0.94	0.93	-1.1%	
ES PCB-189	46.11	1.09E+08	1.01 Y	1.58	1.58	-0.3%	
ES PCB-202	40.08	7.17E+07	0.94 Y	0.97	0.97	-0.2%	
ES PCB-205	48.27	8.57E+07	0.89 Y	1.24	1.25	0.1%	
ES PCB-206	49.75	5.62E+07	0.81 Y	0.83	0.82	-1.6%	
ES PCB-208	45.72	8.18E+07	0.80 Y	1.17	1.19	1.2%	
ES PCB-209	51.22	7.42E+07	1.20 Y	1.11	1.08	-2.8%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	2.10E+08	1.08 Y	1.11	1.09	-2.3%	
SS PCB-111	33.10	1.37E+08	1.60 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	4.42E+07	1.12 Y	0.62	0.64	3.8%	
CS PCB-28	23.16	2.10E+08	1.08 Y	1.85	1.83	-0.7%	
CS PCB-111	33.10	1.37E+08	1.60 Y	1.22	1.21	-0.7%	
CS PCB-178	38.10	4.42E+07	1.12 Y	0.58	0.60	2.7%	
JS PCB-9	16.61	2.33E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.15E+08	0.81 Y	-	-	-	
JS PCB-101	30.81	1.13E+08	1.60 Y	-	-	-	
JS PCB-138	37.73	7.41E+07	1.32 Y	-	-	-	
JS PCB-194	47.87	6.88E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-2 3-MoCB	14.18	5.06E+09	2.92 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-10 26'-DiCB	14.81	5.06E+09	1.58 Y	1.98	2.06	4.1%	
PCB-9 25'-DiCB	16.63	4.77E+09	1.62 Y	0.95	0.97	2.9%	
PCB-7 24'-DiCB	16.80	5.47E+09	1.65 Y	1.05	1.11	6.5%	
PCB-6 23'-DiCB	17.02	5.14E+09	1.63 Y	1.00	1.05	5.3%	
PCB-5 23'-DiCB	17.33	5.14E+09	1.64 Y	1.00	1.05	4.7%	
PCB-8 24'-DiCB	17.45	5.25E+09	1.64 Y	1.03	1.07	3.7%	
PCB-14 35'-DiCB	19.02	6.12E+09	1.60 Y	1.18	1.25	5.8%	
PCB-11 33'-DiCB	19.81	5.26E+09	1.63 Y	1.01	1.07	6.2%	
PCB-13/12 34'/34'-DiCB	20.10	1.05E+10	1.63 Y	0.99	1.07	8.0%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-30/18 246/22'5'-TrCB	19.52	7.69E+09	1.04 Y	1.54	1.60	4.0%	
PCB-17 22'4'-TrCB	19.93	3.33E+09	1.05 Y	1.31	1.38	6.0%	
PCB-27 23'6'-TrCB	20.12	4.61E+09	1.05 Y	1.82	1.92	5.5%	
PCB-24 236'-TrCB	20.26	4.39E+09	1.04 Y	1.72	1.83	5.9%	
PCB-16 22'3'-TrCB	20.35	2.55E+09	1.05 Y	1.01	1.06	5.3%	
PCB-32 24'6'-TrCB	20.84	4.79E+09	1.05 Y	1.92	1.99	3.8%	
PCB-34 23'5'-TrCB	21.99	4.49E+09	1.00 Y	1.14	1.16	2.3%	
PCB-23 235'-TrCB	22.14	4.54E+09	0.98 Y	1.16	1.17	1.5%	
PCB-26/29 23'5'/245'-TrCB	22.43	9.34E+09	0.99 Y	1.17	1.21	3.0%	
PCB-25 23'4'-TrCB	22.63	4.59E+09	0.99 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.91	4.84E+09	0.99 Y	1.23	1.25	2.1%	
PCB-28/20 244'/233'-TrCB	23.20	9.02E+09	0.98 Y	1.13	1.17	2.9%	
PCB-21/33 234'/23'4'-TrCB	23.38	9.35E+09	0.97 Y	1.17	1.21	2.9%	
PCB-22 234'-TrCB	23.75	4.32E+09	0.98 Y	1.08	1.12	3.4%	
PCB-36 33'5'-TrCB	25.14	4.81E+09	0.99 Y	1.17	1.24	6.2%	
PCB-39 34'5'-TrCB	25.46	4.93E+09	0.98 Y	1.21	1.27	5.1%	
PCB-38 345'-TrCB	26.00	4.32E+09	1.00 Y	1.10	1.11	0.9%	
PCB-35 33'4'-TrCB	26.39	4.24E+09	0.99 Y	1.04	1.10	5.3%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	5.80E+09	0.79 Y	0.88	0.89	1.5%	
PCB-45 22'36'-TeCB	23.28	2.69E+09	0.79 Y	0.77	0.83	7.6%	
PCB-51 22'46'-TeCB	23.35	2.73E+09	0.80 Y	0.86	0.84	-2.6%	
PCB-46 22'36'-TeCB	23.56	2.31E+09	0.79 Y	0.70	0.71	1.2%	
PCB-52 22'55'-TeCB	24.82	2.76E+09	0.79 Y	0.84	0.85	0.5%	
PCB-73 23'5'6'-TeCB	24.95	3.82E+09	0.79 Y	1.11	1.17	5.5%	
PCB-43 22'35'-TeCB	25.05	2.28E+09	0.79 Y	0.71	0.70	-1.5%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	6.91E+09	0.79 Y	1.02	1.06	3.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	2.83E+09	0.79 Y	0.84	0.87	3.4%	
PCB-44/47/65 ...-TeCB	25.74	9.10E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.02	1.15E+10	0.81 Y	1.17	1.18	1.4%	
PCB-42 22'34'-TeCB	26.18	2.53E+09	0.79 Y	0.76	0.78	1.9%	
PCB-41 22'34'-TeCB	26.52	2.38E+09	0.78 Y	0.69	0.73	5.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	5.79E+09	0.79 Y	0.86	0.89	3.5%	
PCB-64 234'6'-TeCB	26.81	4.17E+09	0.79 Y	1.22	1.28	4.8%	
PCB-72 23'55'-TeCB	27.53	4.01E+09	0.79 Y	1.21	1.23	1.8%	
PCB-68 23'45'-TeCB	27.79	4.24E+09	0.78 Y	1.28	1.30	1.9%	
PCB-57 233'5'-TeCB	28.16	3.81E+09	0.79 Y	1.16	1.17	0.4%	
PCB-58 233'5'-TeCB	28.37	4.00E+09	0.79 Y	1.18	1.23	4.1%	
PCB-67 23'45'-TeCB	28.53	4.17E+09	0.79 Y	1.26	1.28	1.6%	
PCB-63 234'5'-TeCB	28.75	4.37E+09	0.79 Y	1.30	1.34	3.2%	
PCB-61/70/74/76 ...-TeCB	29.05	1.58E+10	0.79 Y	1.20	1.21	1.4%	
PCB-66 23'44'-TeCB	29.33	3.68E+09	0.78 Y	1.10	1.13	2.4%	
PCB-55 233'4'-TeCB	29.47	3.76E+09	0.79 Y	1.12	1.15	3.0%	
PCB-56 233'4'-TeCB	29.91	3.68E+09	0.79 Y	1.11	1.13	1.6%	
PCB-60 2344'-TeCB	30.10	3.79E+09	0.78 Y	1.14	1.16	2.6%	
PCB-80 33'55'-TeCB	30.43	4.36E+09	0.79 Y	1.31	1.34	1.9%	
PCB-79 33'45'-TeCB	31.76	4.29E+09	0.79 Y	1.31	1.32	0.8%	
PCB-78 33'45'-TeCB	32.25	3.62E+09	0.79 Y	1.06	1.11	4.6%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-96 22'366'-PeCB	26.01	2.25E+09	0.65 Y	1.23	1.27	3.5%	
PCB-103 22'45'6'-PeCB	27.71	2.54E+09	0.62 Y	0.93	0.95	2.6%	
PCB-94 22'356'-PeCB	27.90	2.18E+09	0.63 Y	0.80	0.82	2.5%	
PCB-95 22'35'6'-PeCB	28.28	2.36E+09	0.62 Y	0.87	0.89	2.4%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	4.75E+09	0.62 Y	0.86	0.89	3.4%	
PCB-102 22'456'-PeCB	28.61	2.73E+09	0.62 Y	0.97	1.02	5.8%	
PCB-98 22'34'6'-PeCB	28.68	2.05E+09	0.64 Y	0.76	0.77	1.6%	
PCB-88 22'346'-PeCB	28.98	2.08E+09	0.61 Y	0.80	0.78	-2.2%	
PCB-91 22'34'6'-PeCB	29.04	2.73E+09	0.63 Y	0.94	1.03	8.9%	
PCB-84 22'33'6'-PeCB	29.24	1.98E+09	0.62 Y	0.72	0.74	3.7%	
PCB-89 22'346'-PeCB	29.65	2.09E+09	0.62 Y	0.76	0.79	3.0%	
PCB-121 23'45'6'-PeCB	30.00	3.31E+09	0.62 Y	1.20	1.24	3.7%	
PCB-92 22'355'-PeCB	30.32	2.25E+09	0.62 Y	0.82	0.84	2.9%	
PCB-113/90/101 ...-PeCB	30.80	8.09E+09	0.62 Y	0.99	1.01	2.8%	
PCB-83 22'33'5'-PeCB	31.24	1.82E+09	0.62 Y	0.71	0.69	-4.1%	
PCB-99 22'44'5'-PeCB	31.34	2.67E+09	0.62 Y	0.92	1.00	8.8%	
PCB-112 233'56'-PeCB	31.44	3.15E+09	0.63 Y	1.17	1.18	1.3%	
PCB-108/119/86/97/125...-PeCB	31.79	1.55E+10	0.68 Y	0.98	0.97	-0.7%	
PCB-117 234'56'-PeCB	32.33	3.32E+09	0.62 Y	1.14	1.25	9.6%	
PCB-116/85 23456/22'344'-PeCB	32.42	5.04E+09	0.63 Y	0.94	0.95	0.6%	
PCB-110 233'4'6'-PeCB	32.53	3.01E+09	0.62 Y	1.12	1.13	1.1%	



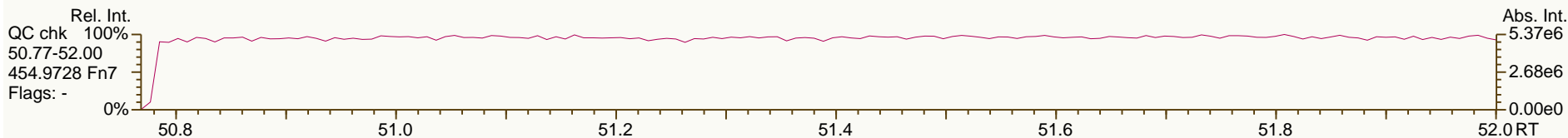
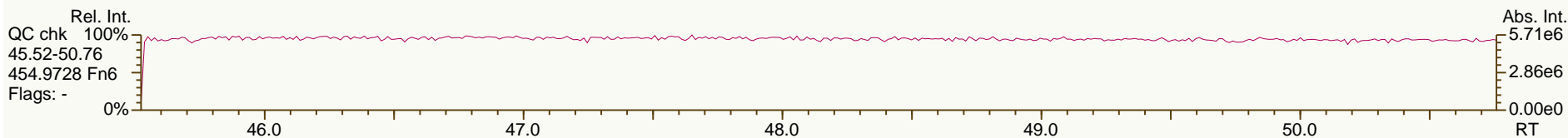
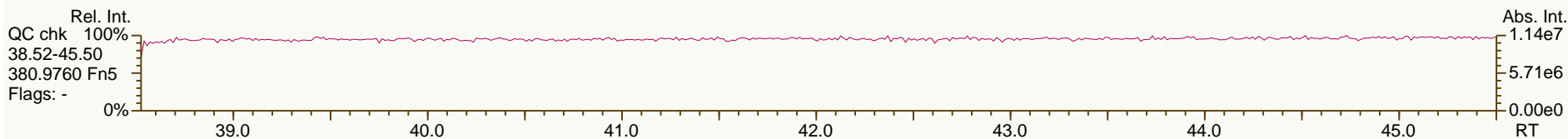
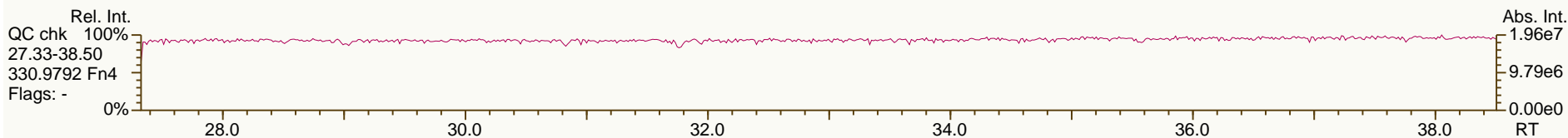
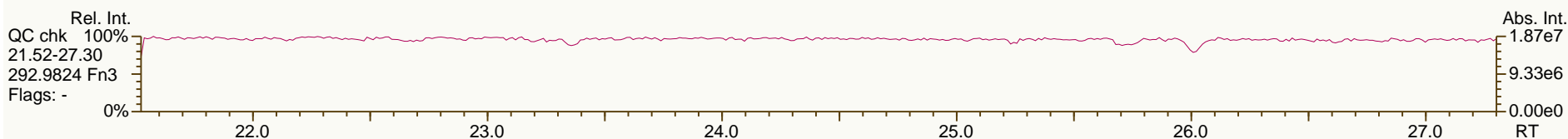
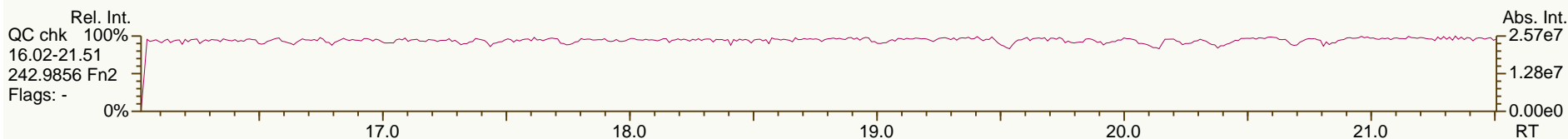
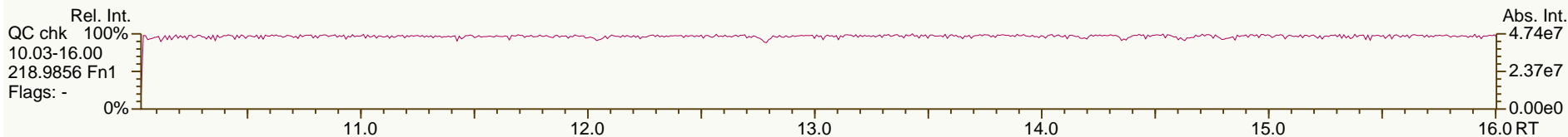
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Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	32.62	3.31E+09	0.63 Y	1.16	1.24	7.2%	
PCB-82 22'33'4'-PeCB	32.81	1.94E+09	0.62 Y	0.70	0.73	4.5%	
PCB-111 233'55'-PeCB	33.13	3.35E+09	0.63 Y	1.22	1.26	3.1%	
PCB-120 23'455'-PeCB	33.53	3.41E+09	0.62 Y	1.21	1.28	5.7%	
PCB-107/124 ...-PeCB	34.50	6.21E+09	0.63 Y	1.10	1.17	6.2%	
PCB-109 233'46'-PeCB	34.71	3.61E+09	0.62 Y	1.25	1.36	8.2%	
PCB-106 233'45'-PeCB	34.93	3.03E+09	0.62 Y	1.11	1.14	3.1%	
PCB-122 233'4'5'-PeCB	35.39	2.83E+09	0.63 Y	0.99	1.06	6.1%	
PCB-127 33'455'-PeCB	37.34	3.14E+09	0.62 Y	1.10	1.19	8.8%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-152 22'3566'-HxCB	30.82	2.78E+09	1.26 Y	1.17	1.23	5.0%	
PCB-150 22'34'66'-HxCB	30.97	2.75E+09	1.26 Y	1.18	1.22	3.6%	
PCB-136 22'33'66'-HxCB	31.27	2.61E+09	1.27 Y	1.07	1.16	8.4%	
PCB-145 22'3466'-HxCB	31.54	2.61E+09	1.28 Y	1.11	1.16	3.7%	
PCB-148 22'34'56'-HxCB	32.82	2.03E+09	1.30 Y	1.18	1.25	5.4%	
PCB-151/135 ...-HxCB	33.34	3.85E+09	1.28 Y	1.14	1.18	3.6%	
PCB-154 22'44'56'-HxCB	33.55	2.26E+09	1.26 Y	1.34	1.38	3.2%	
PCB-144 22'345'6'-HxCB	33.81	1.97E+09	1.28 Y	1.18	1.20	1.8%	
PCB-147/149 ...-HxCB	34.12	4.02E+09	1.26 Y	1.18	1.23	4.9%	
PCB-134 22'33'56'-HxCB	34.29	1.54E+09	1.26 Y	0.92	0.94	2.0%	
PCB-143 22'3456'-HxCB	34.37	1.89E+09	1.28 Y	1.13	1.16	2.7%	
PCB-139/140 ...-HxCB	34.64	4.13E+09	1.28 Y	1.21	1.27	5.1%	
PCB-131 22'33'46'-HxCB	34.81	1.73E+09	1.28 Y	1.03	1.06	3.7%	
PCB-142 22'3456'-HxCB	34.96	1.72E+09	1.26 Y	0.99	1.06	6.7%	
PCB-132 22'33'46'-HxCB	35.19	1.74E+09	1.27 Y	1.03	1.06	3.2%	
PCB-133 22'33'55'-HxCB	35.60	1.91E+09	1.26 Y	1.13	1.17	3.7%	
PCB-165 233'55'6'-HxCB	35.94	2.36E+09	1.27 Y	1.41	1.44	2.5%	
PCB-146 22'34'55'-HxCB	36.15	2.06E+09	1.27 Y	1.20	1.26	5.0%	
PCB-161 233'45'6'-HxCB	36.27	2.61E+09	1.27 Y	1.52	1.60	5.3%	
PCB-153/168 ...-HxCB	36.70	4.99E+09	1.28 Y	1.46	1.53	5.0%	
PCB-141 22'3455'-HxCB	36.85	1.83E+09	1.27 Y	1.09	1.12	2.9%	
PCB-130 22'33'45'-HxCB	37.19	1.63E+09	1.26 Y	0.97	1.00	3.0%	
PCB-137 22'344'5'-HxCB	37.39	2.02E+09	1.27 Y	1.16	1.24	6.3%	
PCB-164 233'4'5'6'-HxCB	37.47	2.53E+09	1.29 Y	1.50	1.55	3.5%	
PCB-163/138/129 ...-HxCB	37.77	6.19E+09	1.26 Y	1.19	1.27	6.4%	
PCB-160 233'456'-HxCB	37.90	2.49E+09	1.29 Y	1.52	1.52	0.6%	
PCB-158 233'44'6'-HxCB	38.09	2.80E+09	1.28 Y	1.66	1.72	3.4%	
PCB-128/166 ...-HxCB	38.82	4.79E+09	1.22 Y	0.90	0.98	8.8%	
PCB-159 233'455'-HxCB	39.64	2.87E+09	1.23 Y	1.11	1.17	5.3%	
PCB-162 233'4'55'-HxCB	39.88	2.82E+09	1.22 Y	1.07	1.15	7.5%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-179 22'33'566'-HpCB	35.83	1.59E+09	1.11 Y	1.16	1.15	-0.7%	
PCB-184 22'344'66'-HpCB	36.30	1.62E+09	1.09 Y	1.13	1.17	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	1.74E+09	1.08 Y	1.23	1.26	2.3%	
PCB-186 22'34566'-HpCB	36.99	1.57E+09	1.09 Y	1.13	1.14	1.1%	
PCB-178 22'33'55'6'-HpCB	38.12	1.21E+09	1.09 Y	0.84	0.88	4.2%	
PCB-175 22'33'45'6'-HpCB	38.67	1.91E+09	1.06 Y	1.07	1.15	7.1%	
PCB-187 22'34'55'6'-HpCB	38.90	2.01E+09	1.06 Y	1.14	1.21	6.2%	
PCB-182 22'344'56'-HpCB	39.08	2.05E+09	1.06 Y	1.18	1.23	4.6%	
PCB-183 22'344'5'6'-HpCB	39.42	2.03E+09	1.05 Y	1.20	1.22	1.1%	
PCB-185 22'3455'6'-HpCB	39.51	2.01E+09	1.06 Y	1.06	1.21	13.9%	
PCB-174 22'33'456'-HpCB	39.62	1.71E+09	1.06 Y	0.99	1.03	4.0%	
PCB-177 22'33'45'6'-HpCB	39.99	1.65E+09	1.06 Y	0.95	0.99	4.3%	
PCB-181 22'344'56'-HpCB	40.34	1.95E+09	1.06 Y	1.09	1.17	7.5%	
PCB-171/173 ...-HpCB	40.53	3.42E+09	1.06 Y	0.95	1.03	8.3%	
PCB-172 22'33'455'-HpCB	41.88	1.73E+09	1.06 Y	0.99	1.04	5.0%	
PCB-192 233'455'6'-HpCB	42.13	2.27E+09	1.06 Y	1.29	1.36	5.9%	
PCB-180/193 ...-HpCB	42.40	4.38E+09	1.06 Y	1.26	1.31	4.3%	
PCB-191 233'44'5'6'-HpCB	42.73	2.40E+09	1.06 Y	1.40	1.44	3.3%	
PCB-170 22'33'44'5'-HpCB	43.51	1.66E+09	1.05 Y	1.14	1.24	9.0%	
PCB-190 233'44'56'-HpCB	43.96	2.44E+09	1.05 Y	1.66	1.82	9.7%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-201 22'33'45'66'-OcCB	40.89	1.78E+09	0.92 Y	1.22	1.24	1.8%	
PCB-204 22'344'566'-OcCB	41.47	1.66E+09	0.92 Y	1.12	1.16	3.8%	
PCB-197 22'33'44'66'-OcCB	41.66	1.80E+09	0.92 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.75	1.68E+09	0.92 Y	1.11	1.17	6.1%	
PCB-198/199 ...-OcCB	44.07	2.46E+09	0.91 Y	0.81	0.86	5.9%	
PCB-196 22'33'44'56'-OcCB	44.65	1.24E+09	0.91 Y	0.83	0.87	3.9%	
PCB-203 22'344'55'6'-OcCB	44.82	1.30E+09	0.92 Y	0.87	0.91	4.0%	
PCB-195 22'33'44'56'-OcCB	45.95	1.40E+09	0.92 Y	0.77	0.82	6.5%	
PCB-194 22'33'44'55'-OcCB	47.89	1.50E+09	0.93 Y	0.84	0.88	4.1%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-207 22'33'44'566'-NoCB	46.53	2.03E+09	0.79 Y	1.19	1.24	4.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

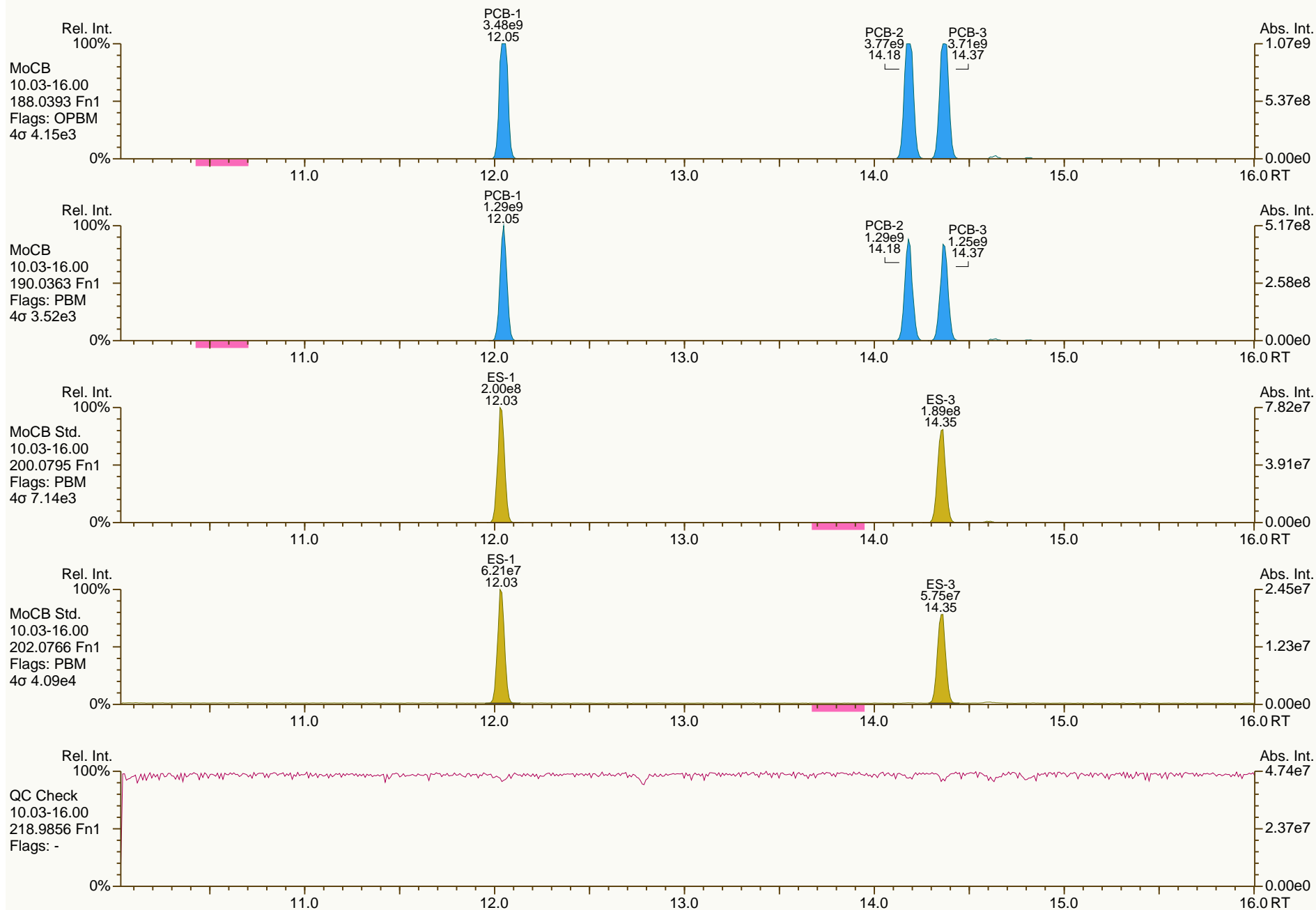
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

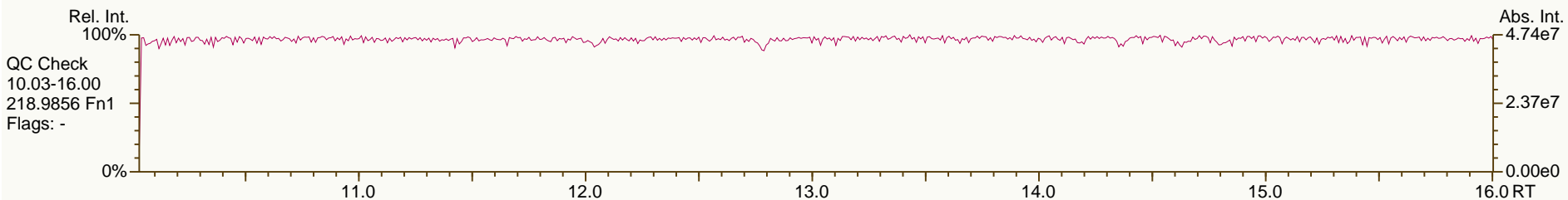
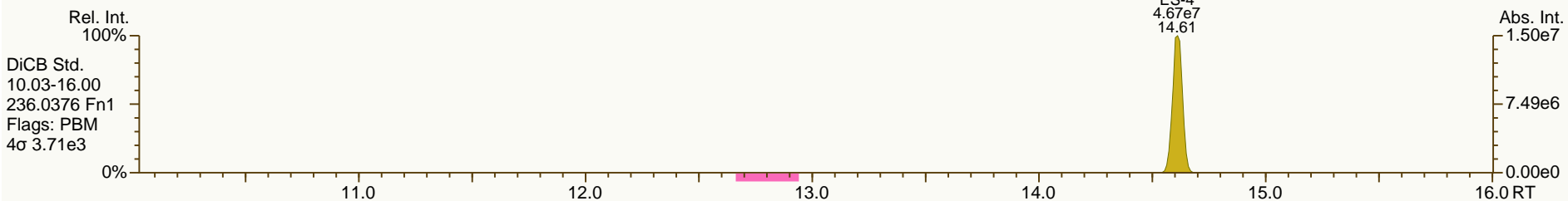
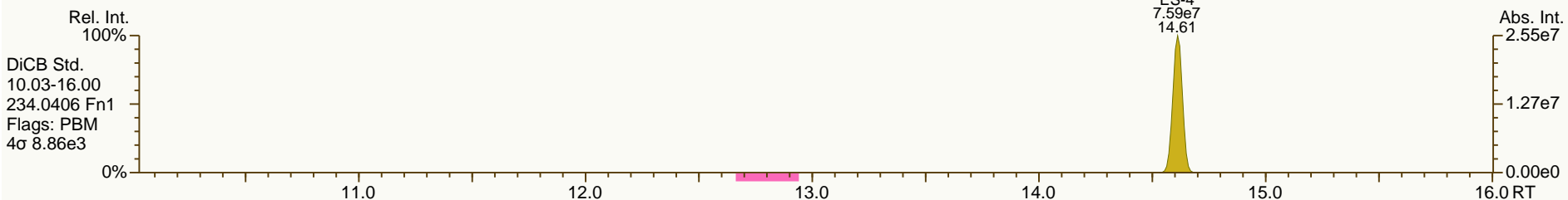
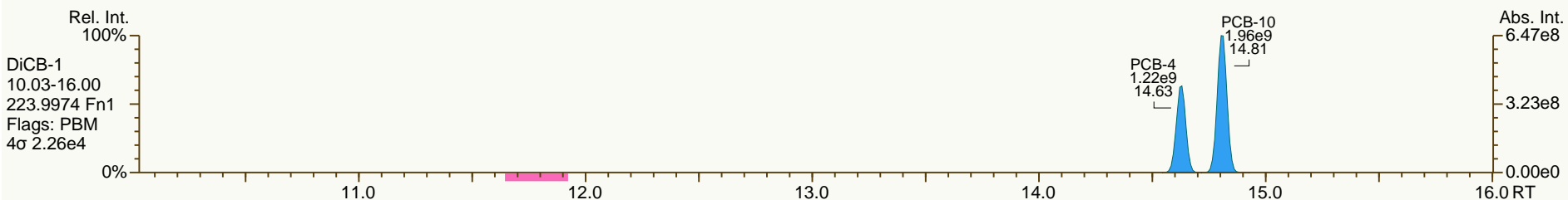
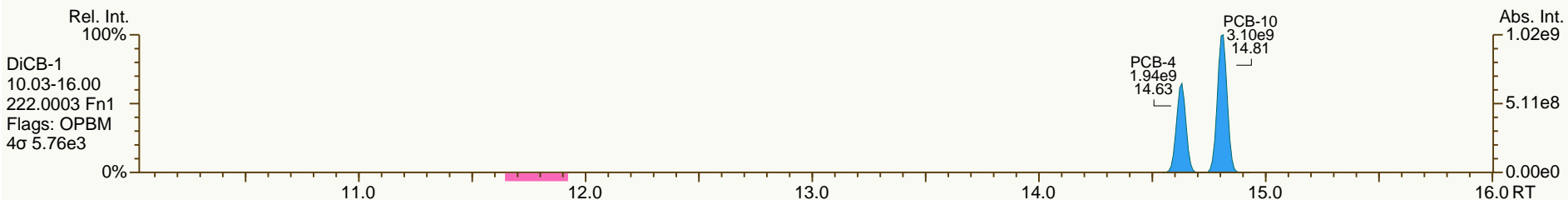
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

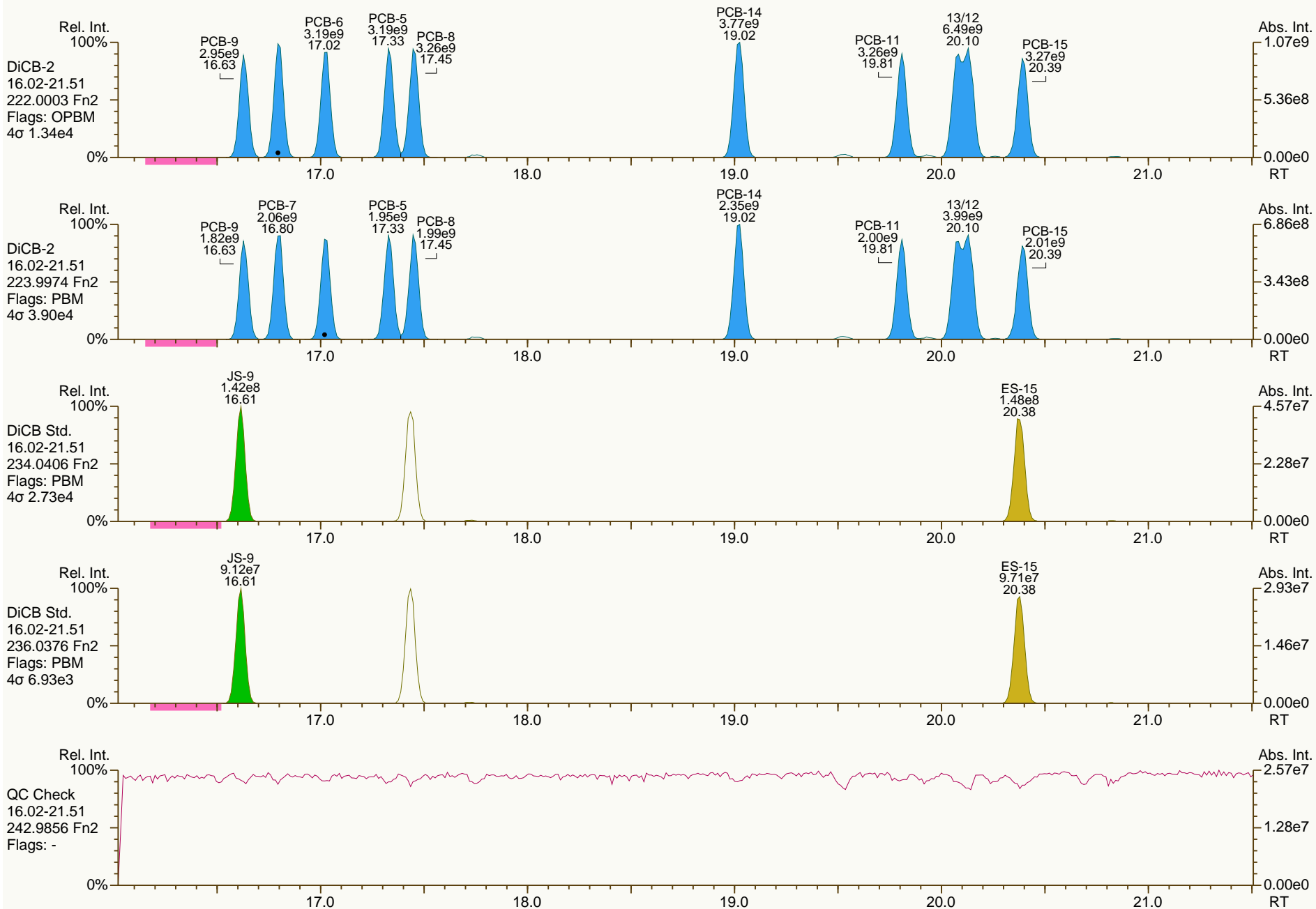
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

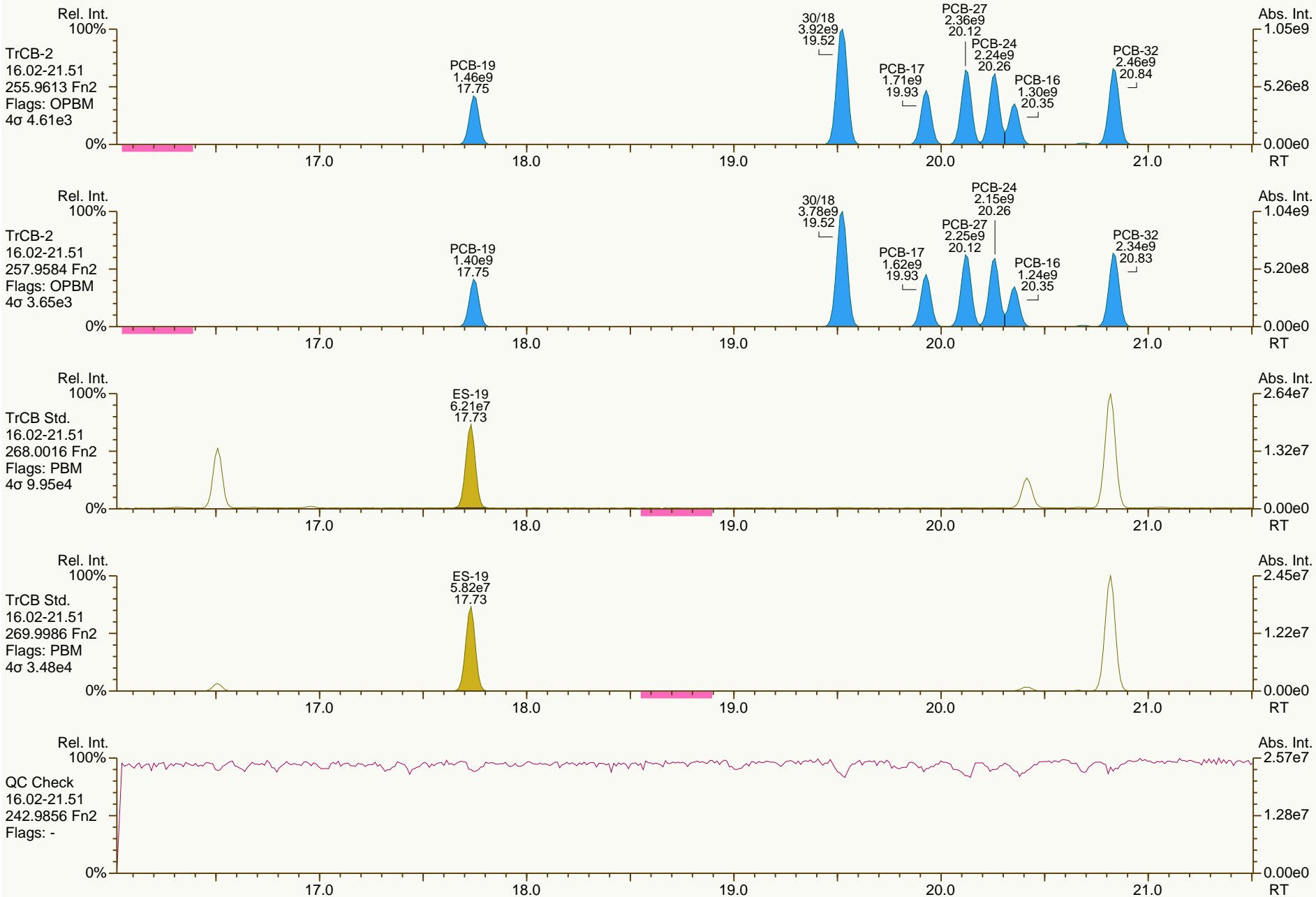
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

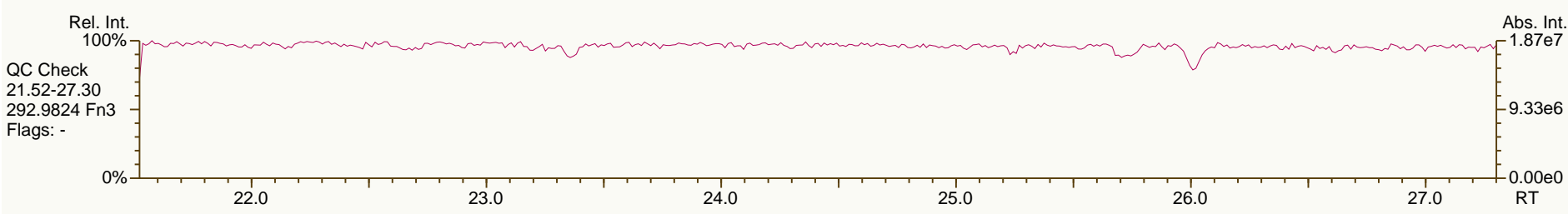
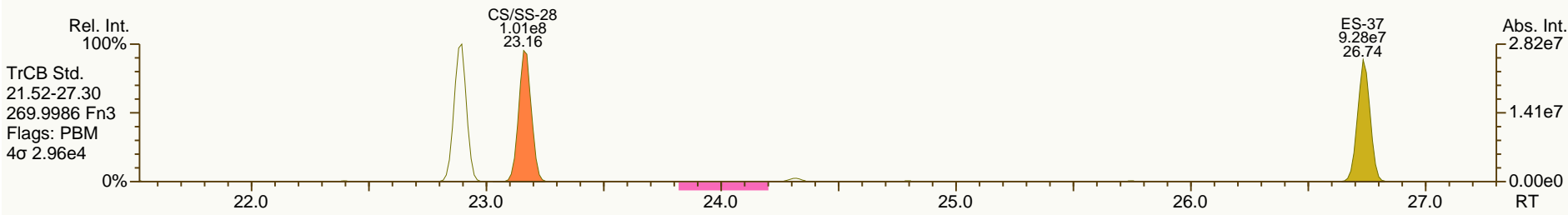
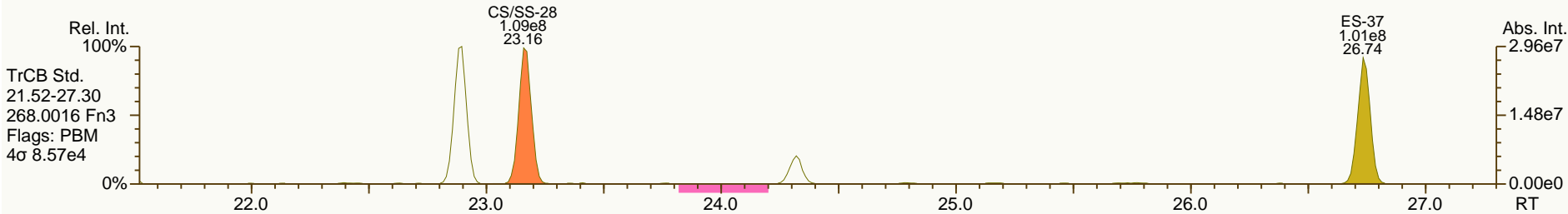
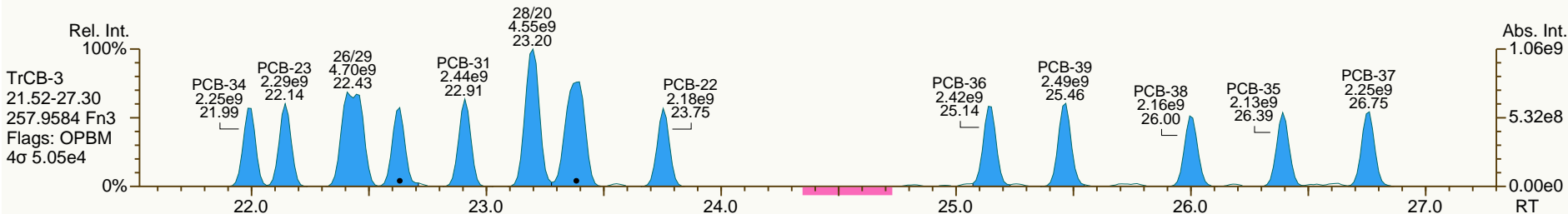
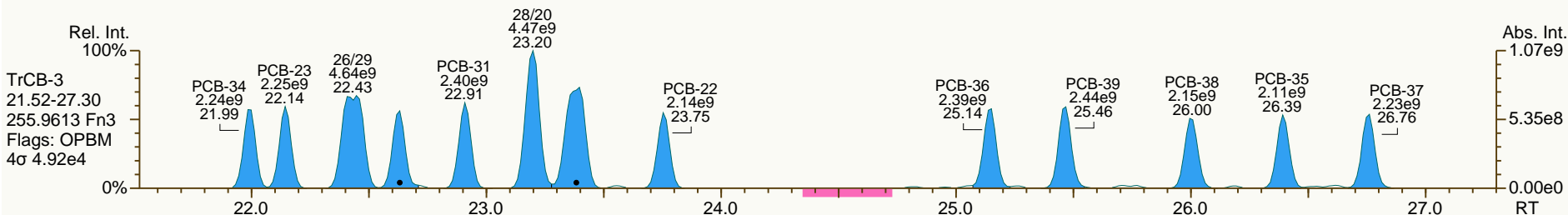
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
 User: LKB Datafile: 131220X08





SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

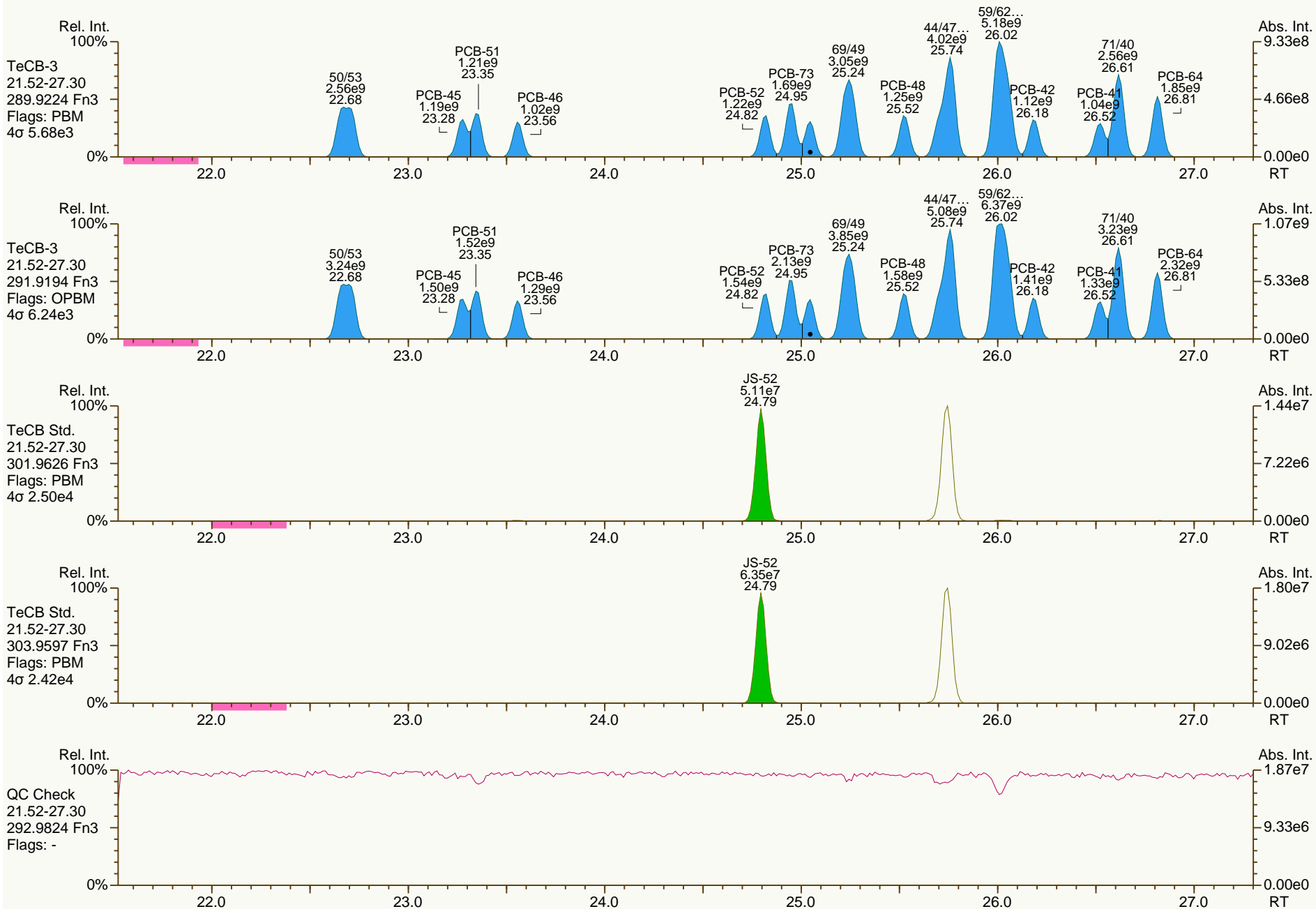
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

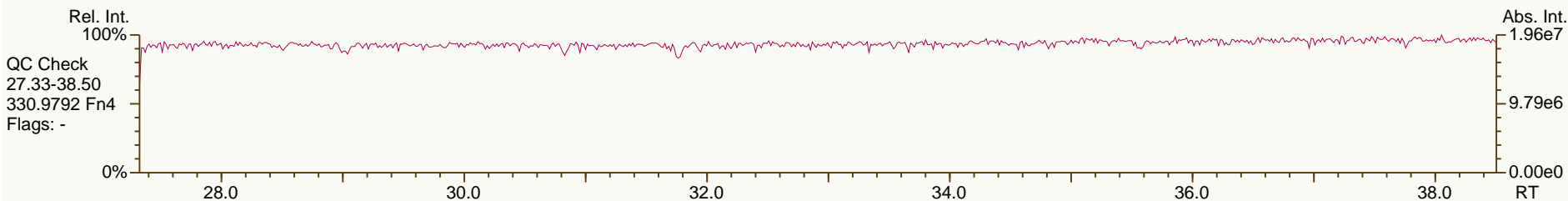
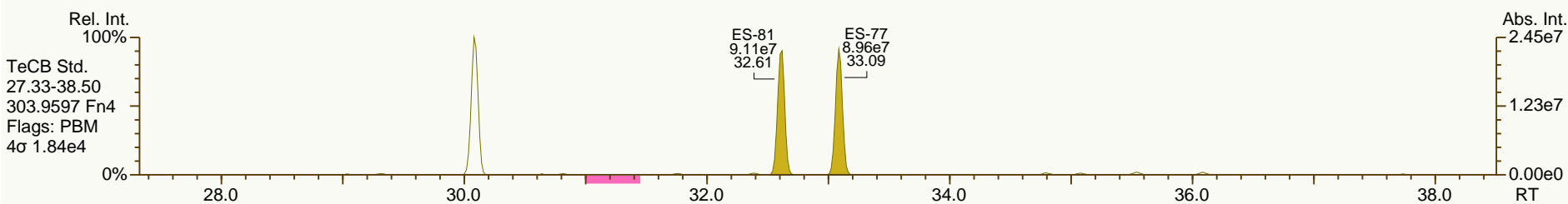
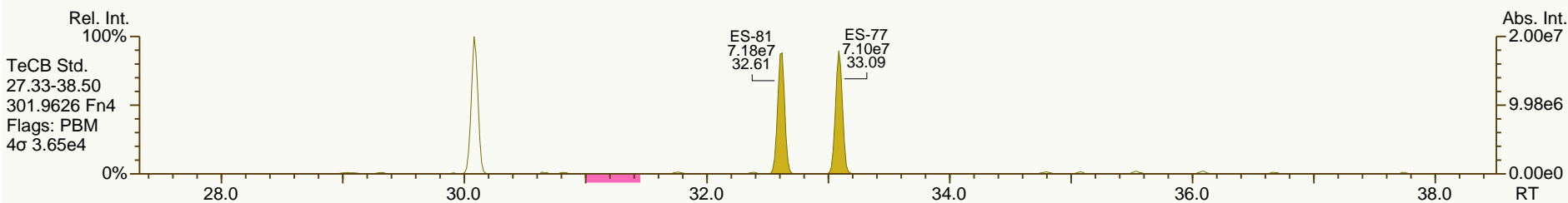
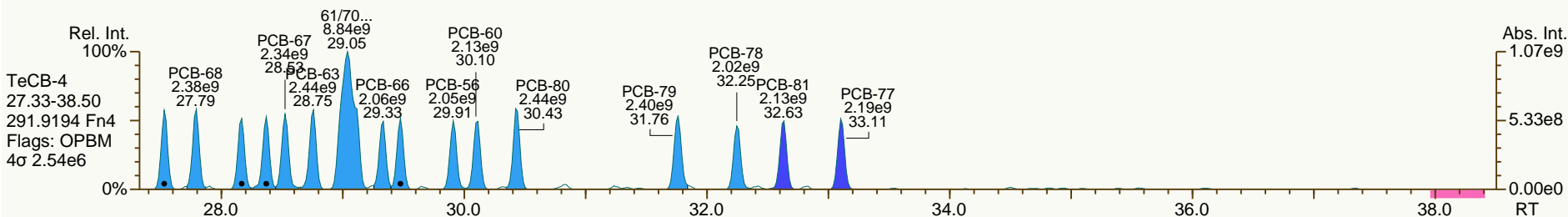
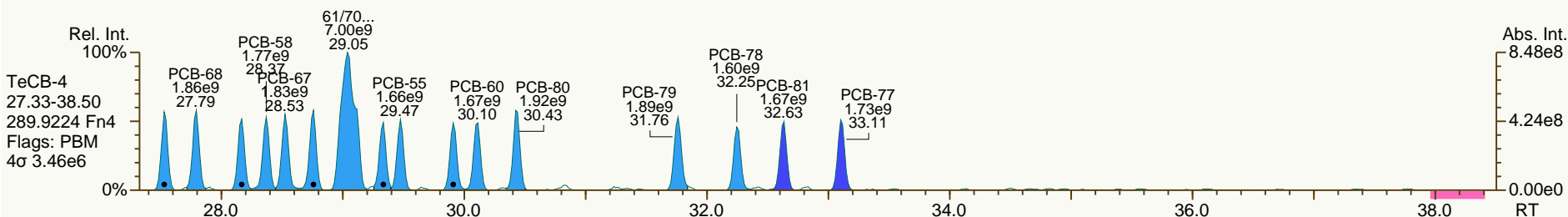
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

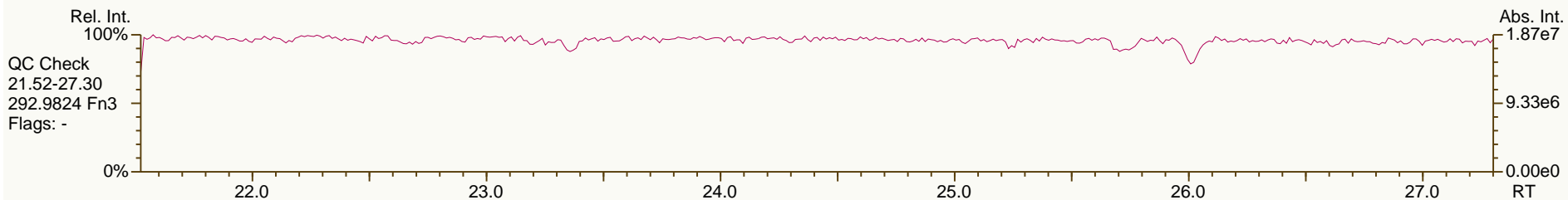
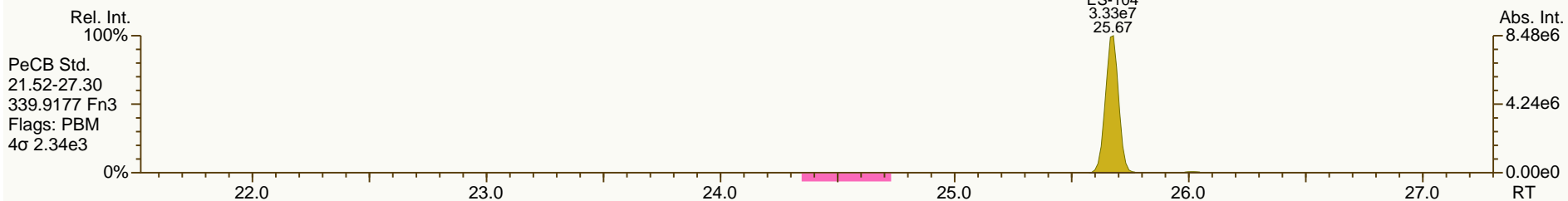
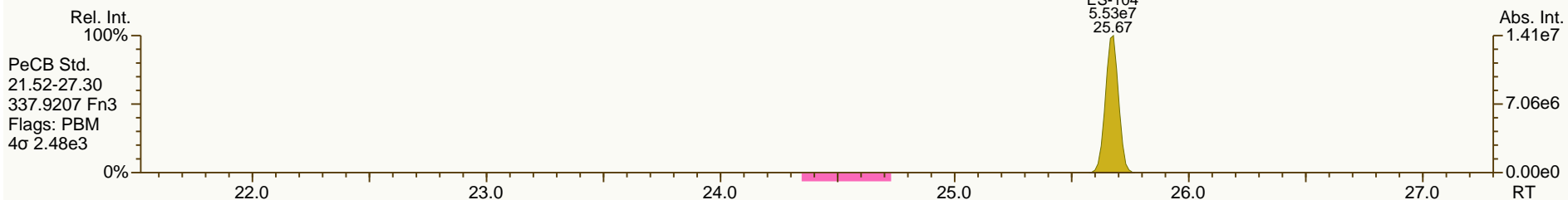
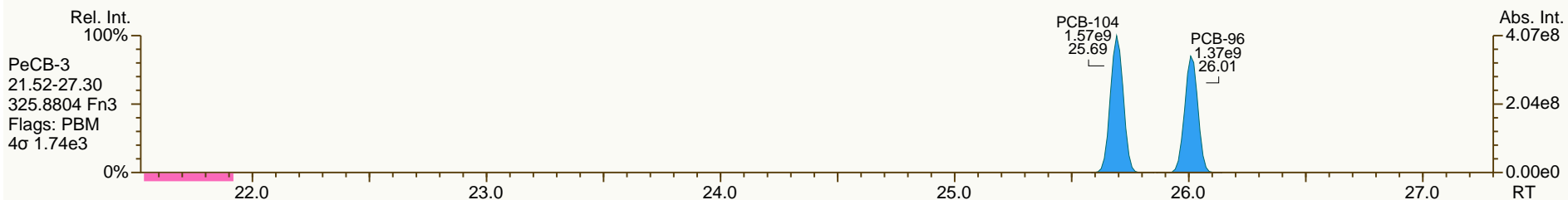
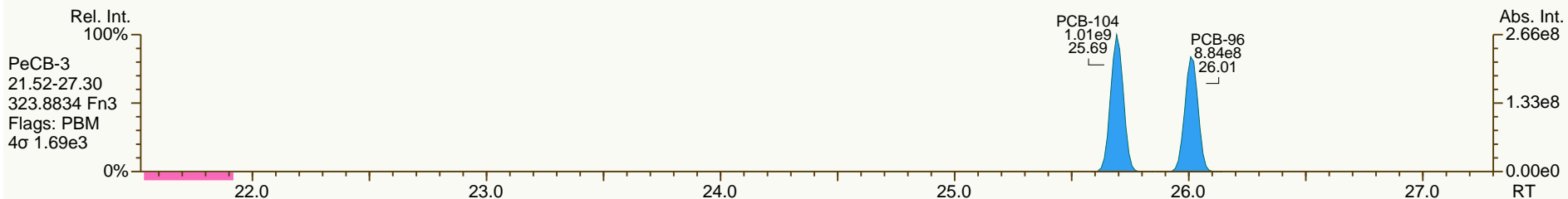
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

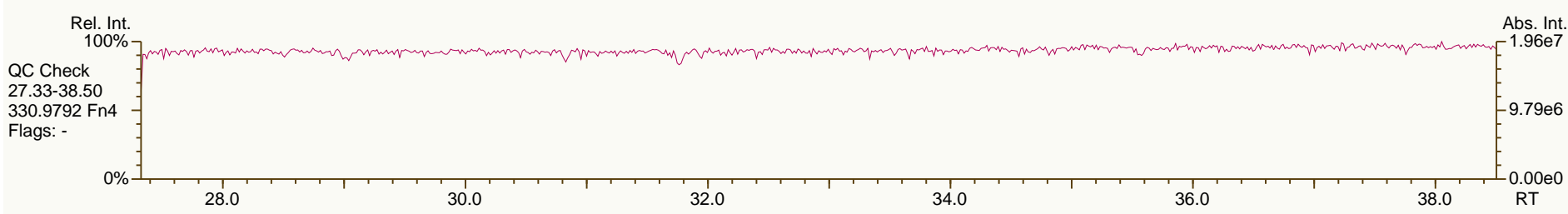
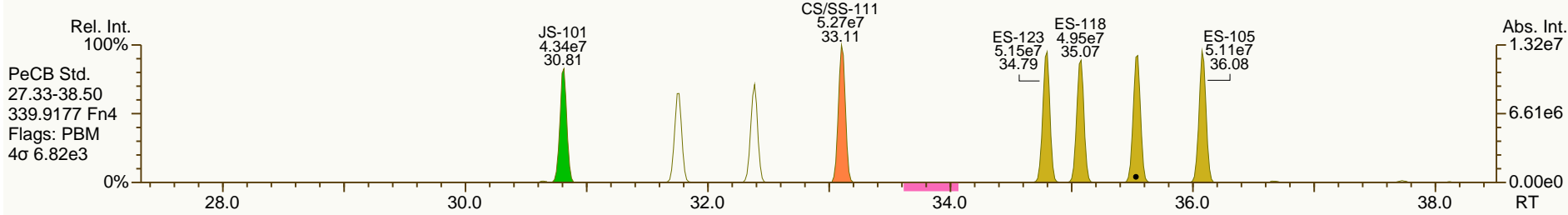
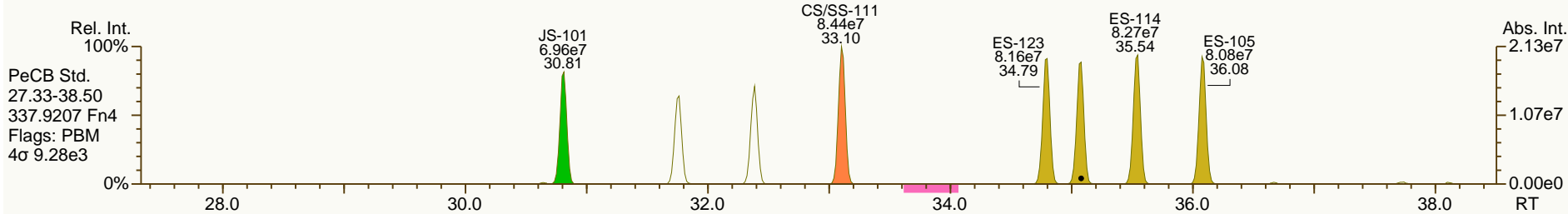
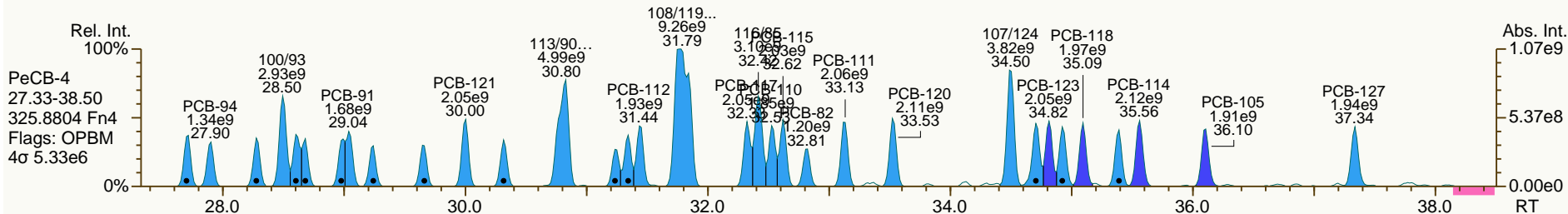
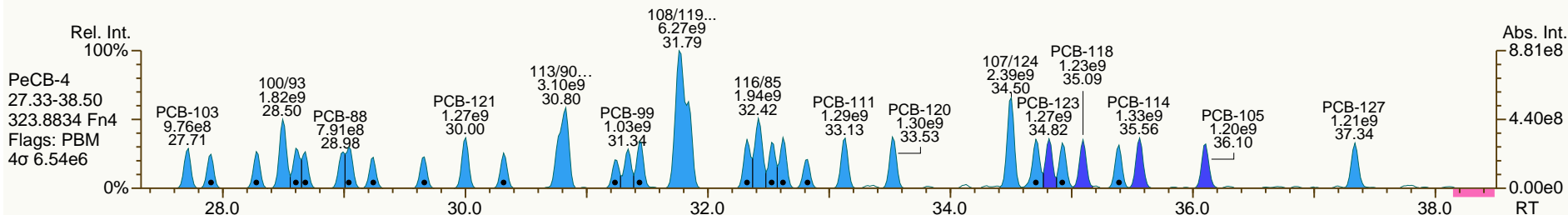
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

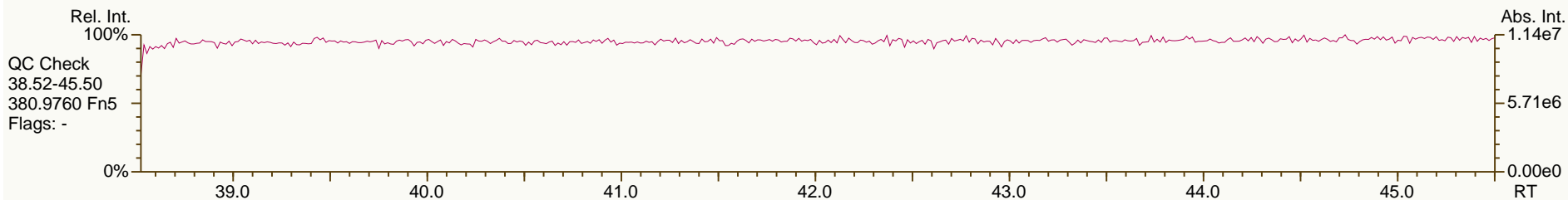
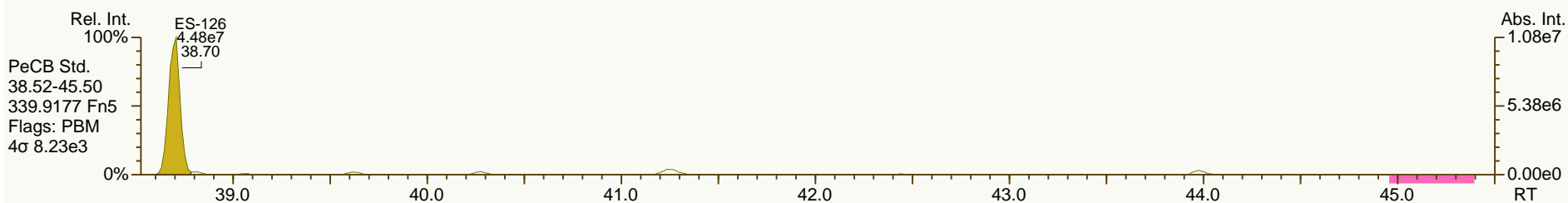
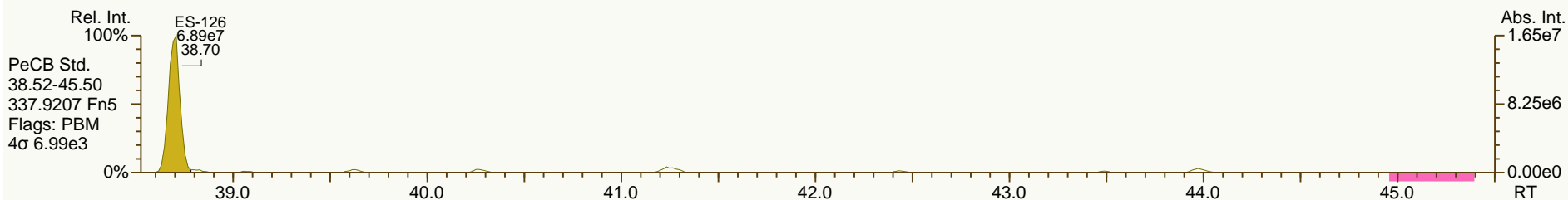
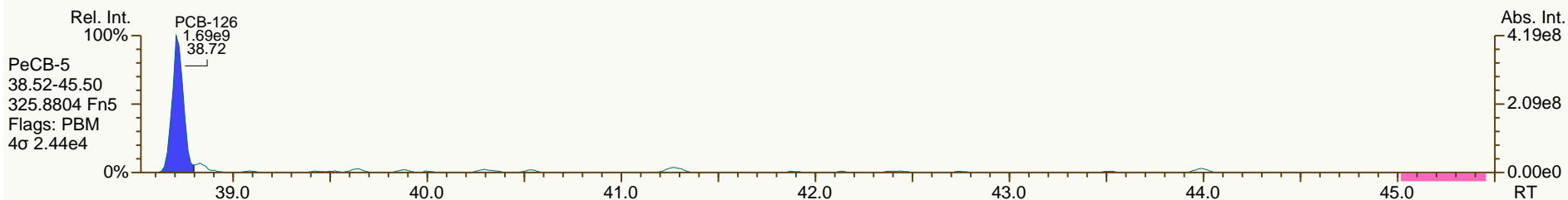
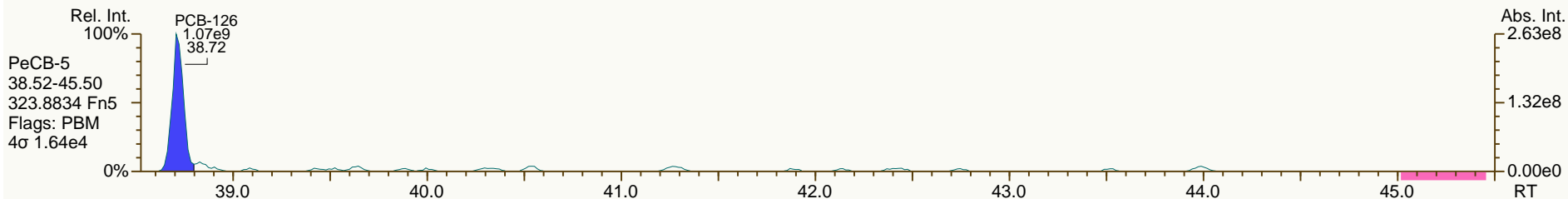
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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SGS-AP ID: CS5\_131220\_PCB\_XA  
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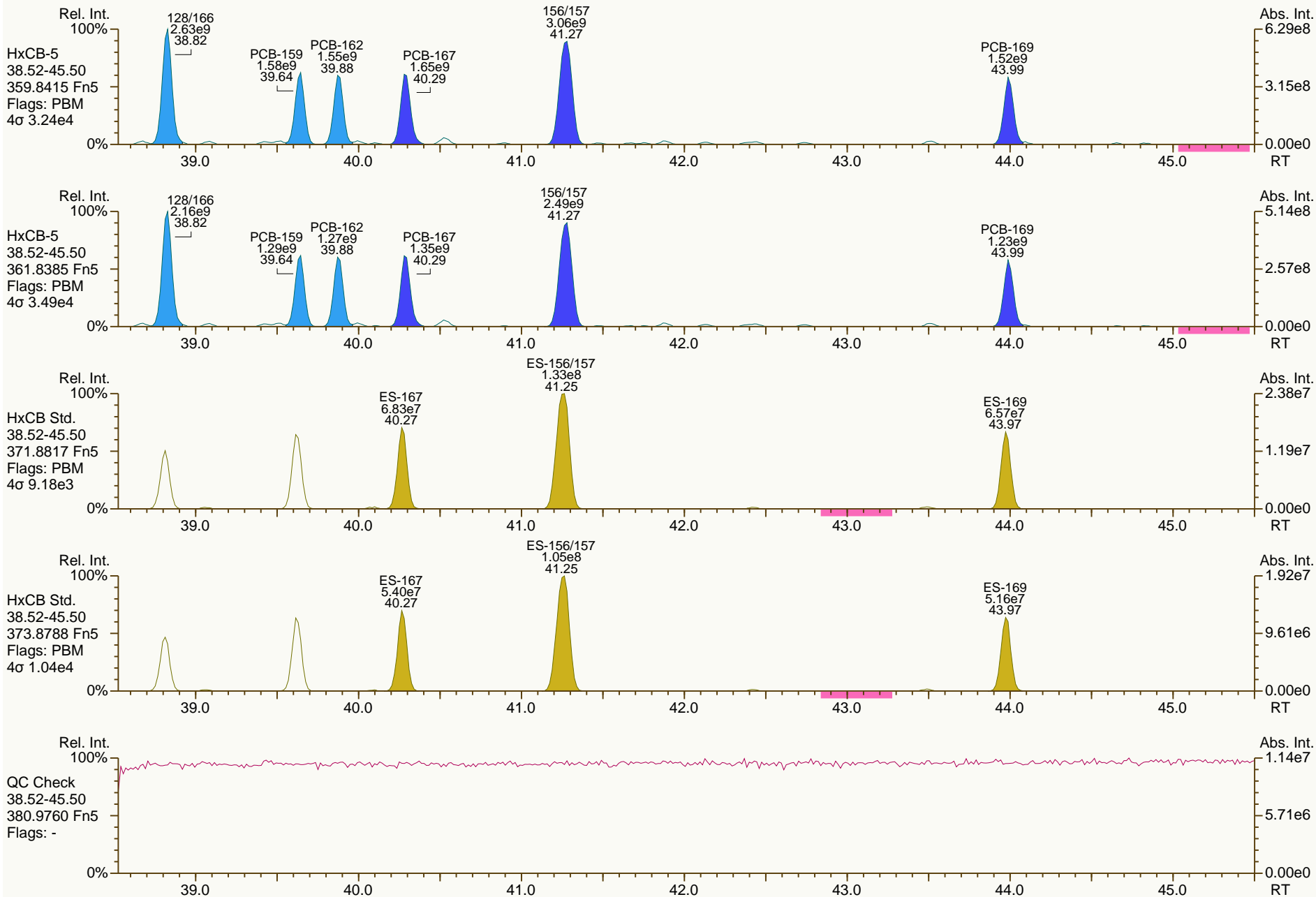
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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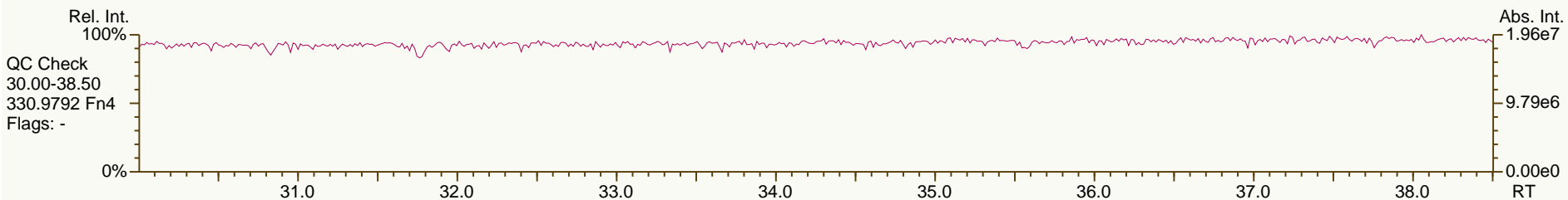
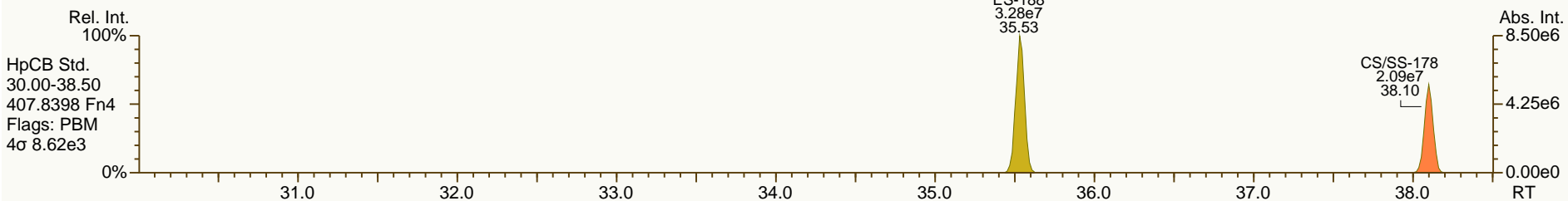
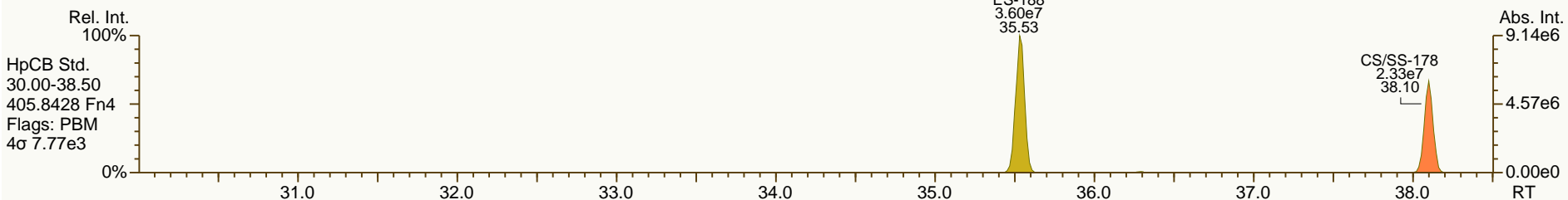
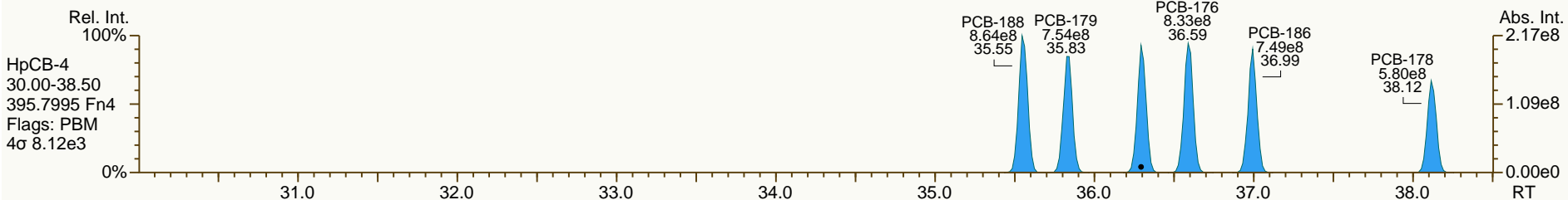
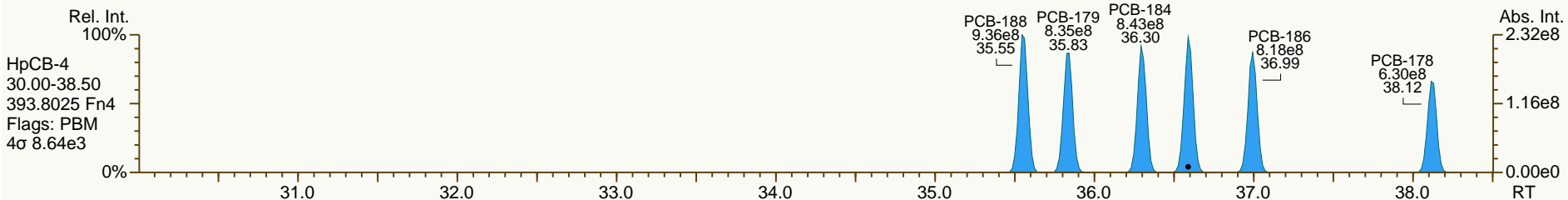




SGS-AP ID: CS5\_131220\_PCB\_XA  
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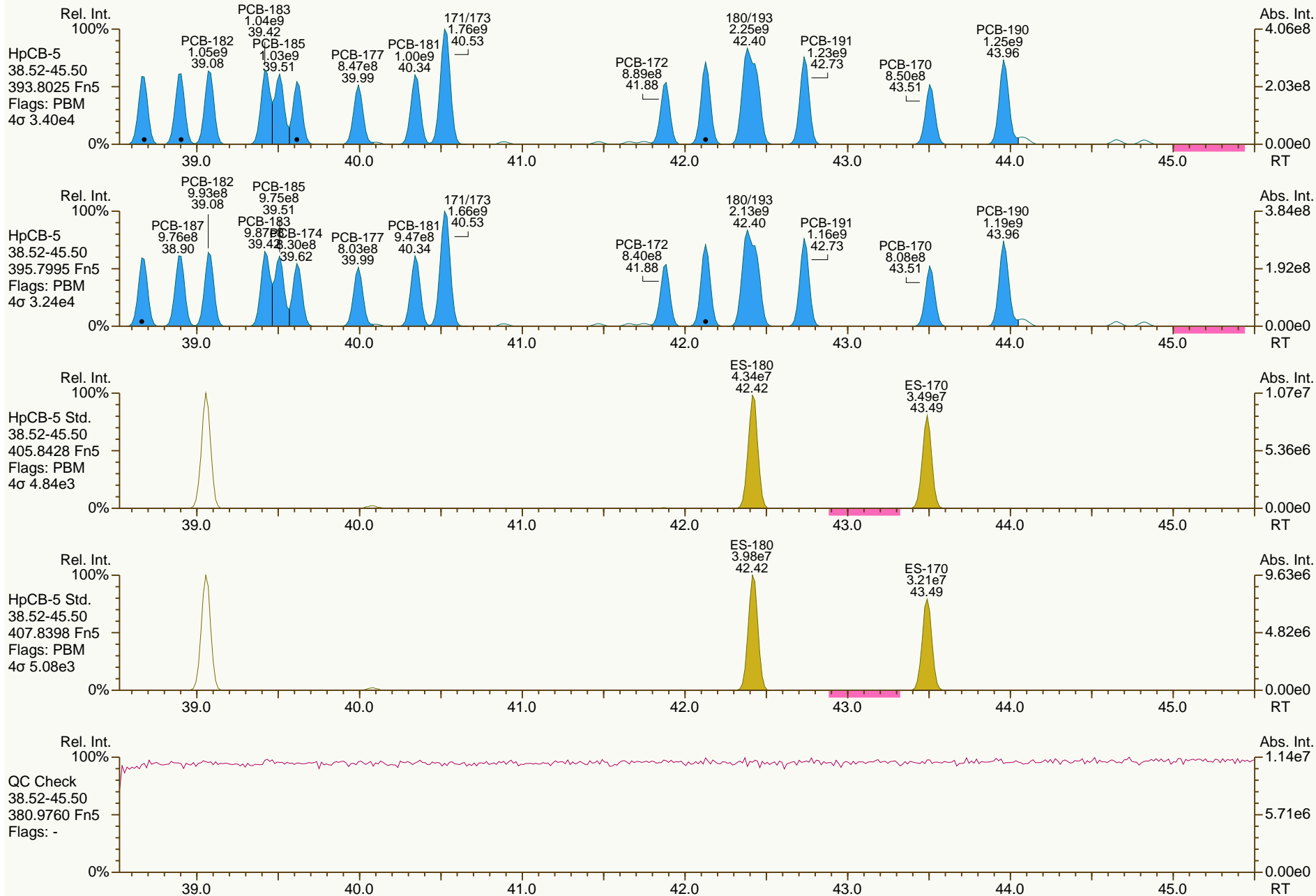
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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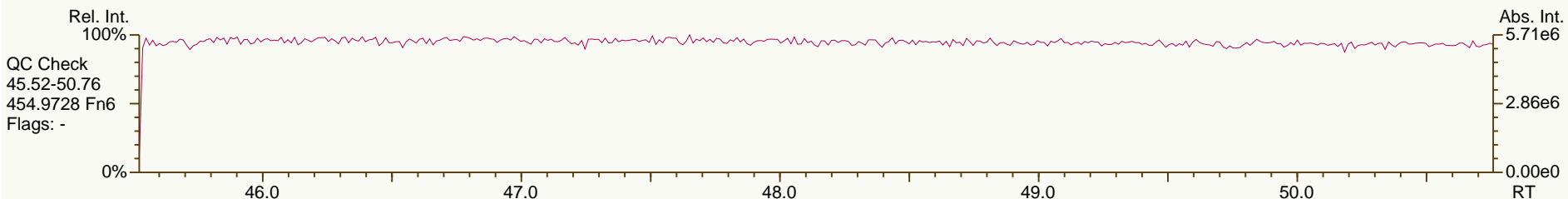
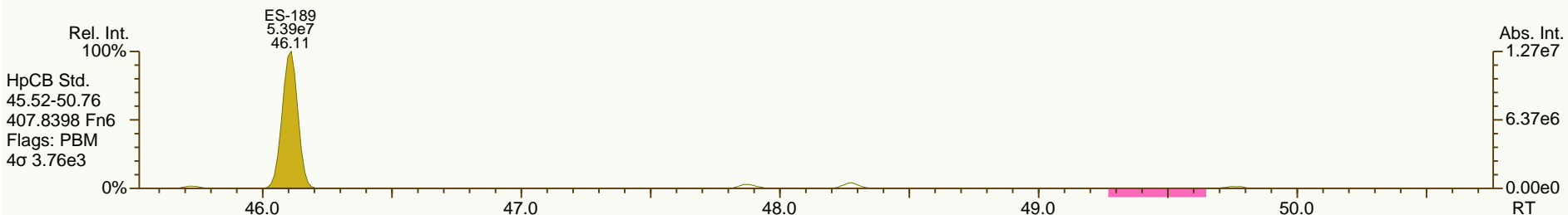
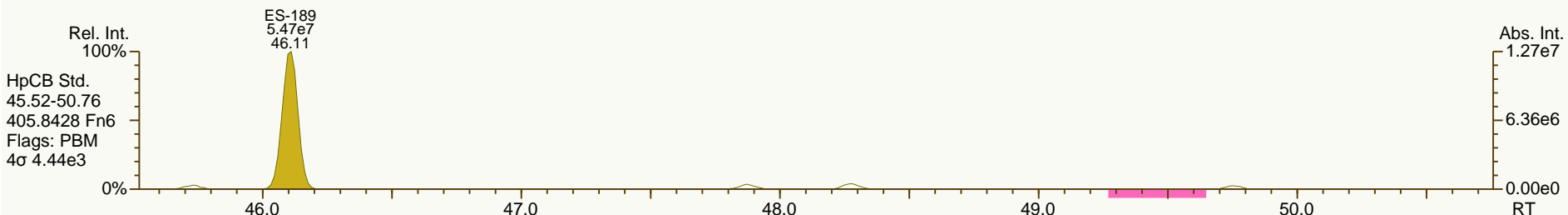
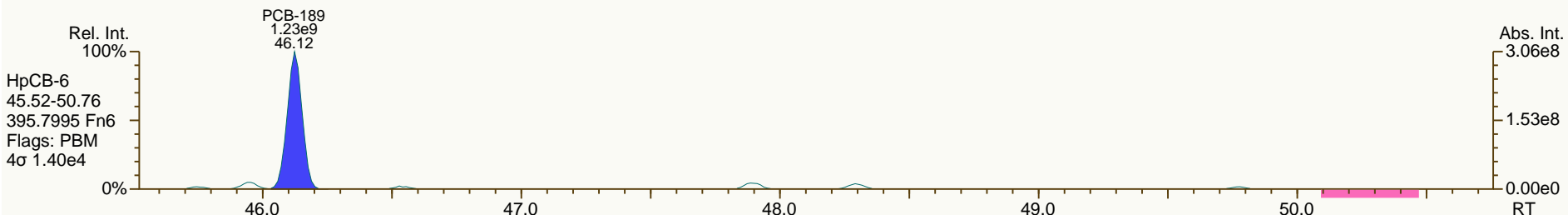
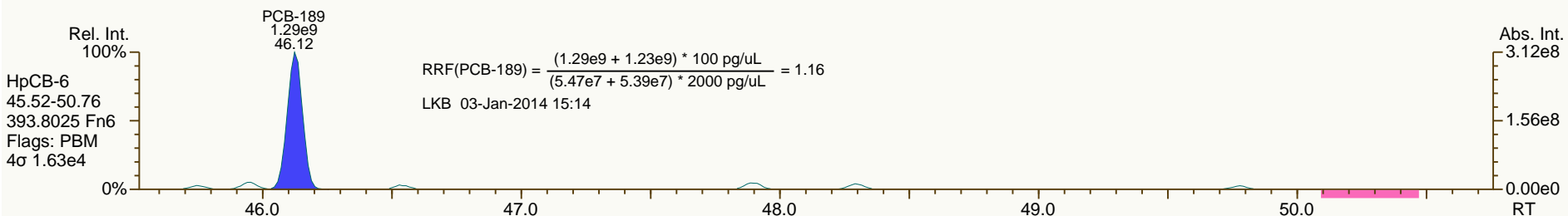
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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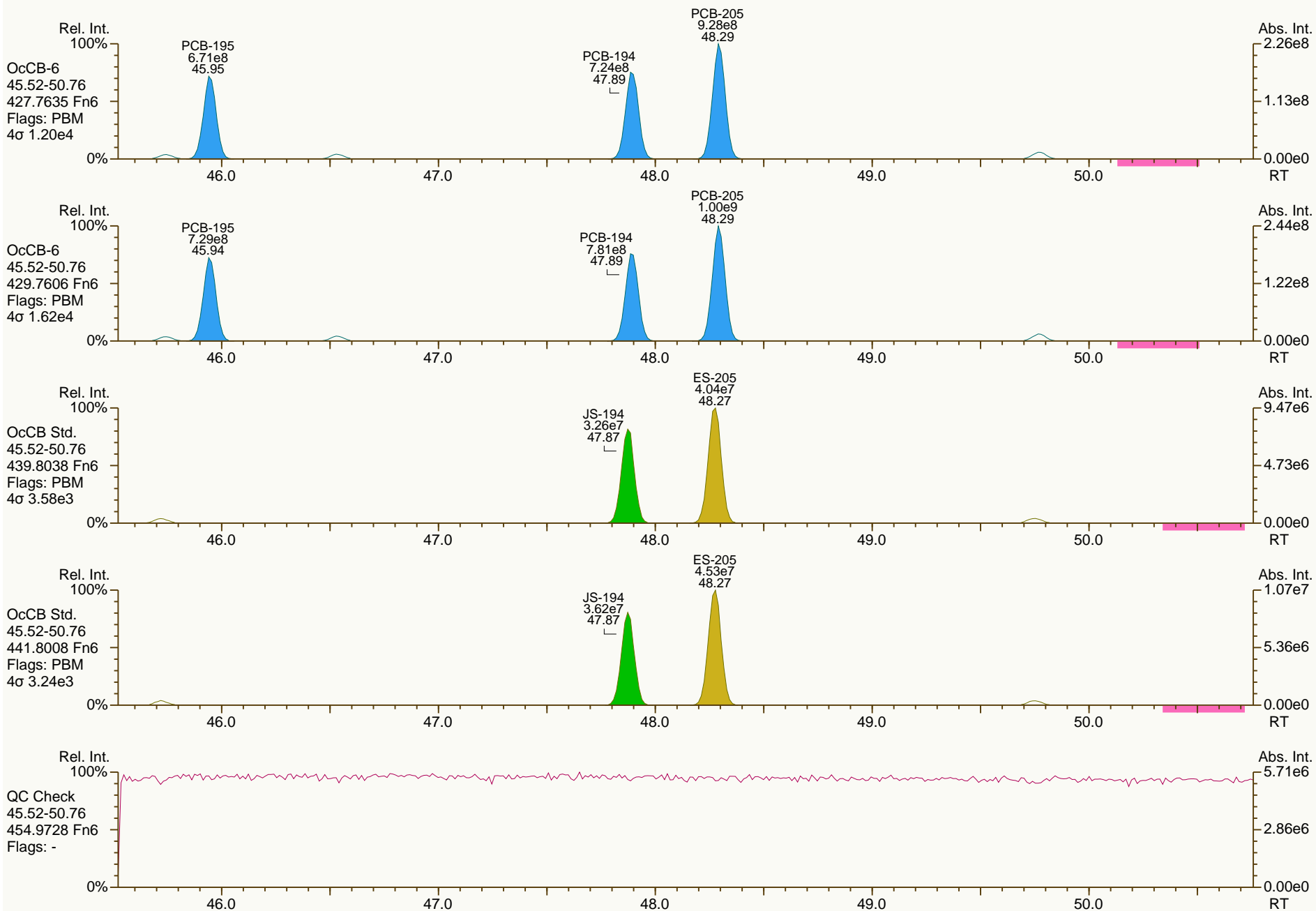
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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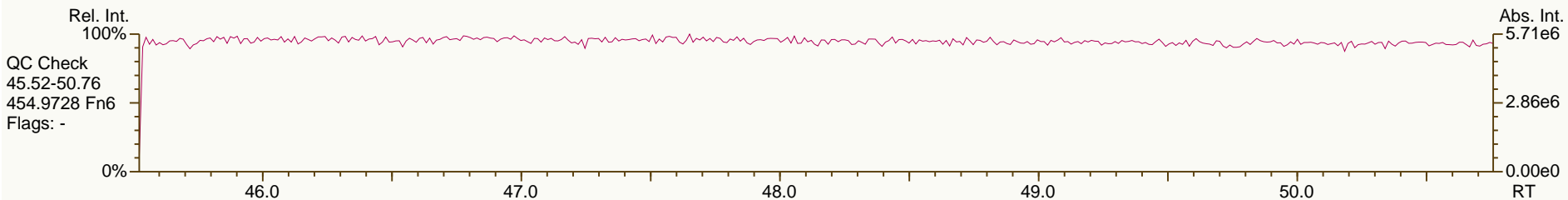
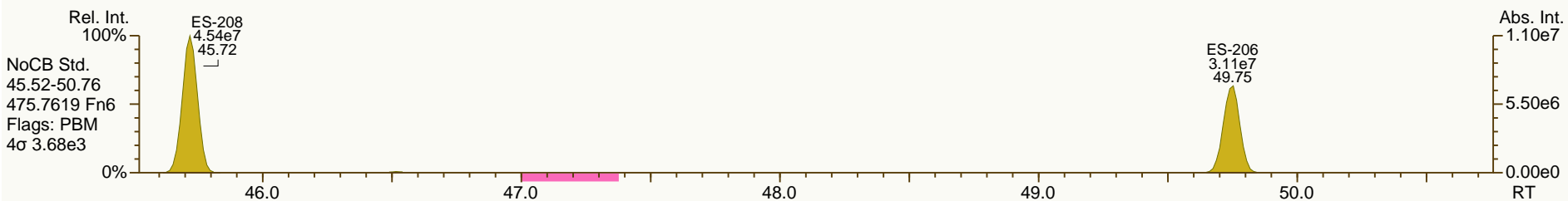
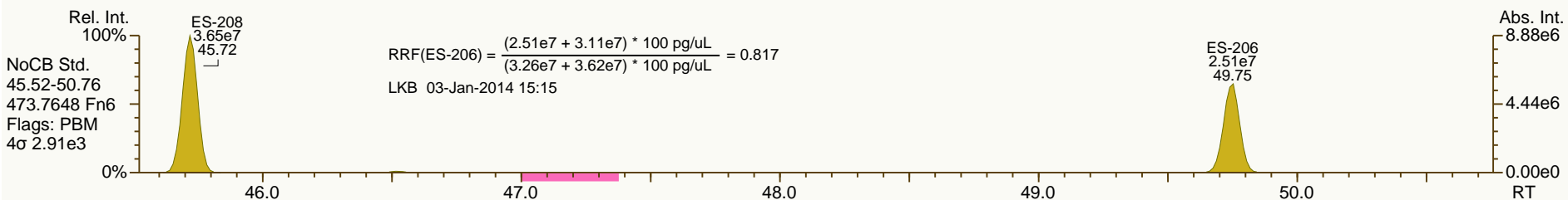
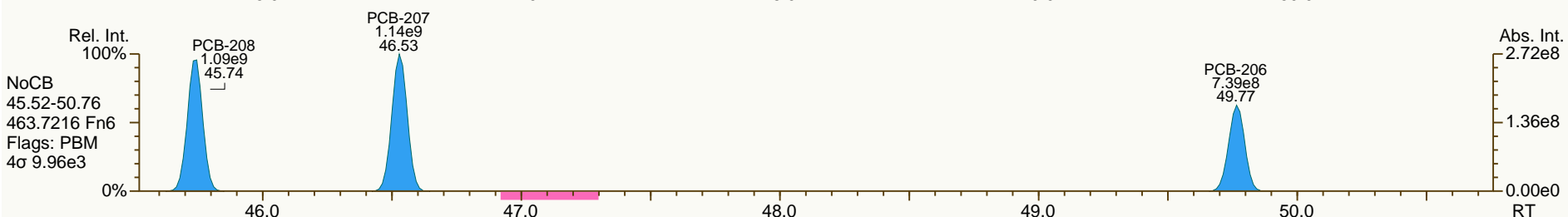
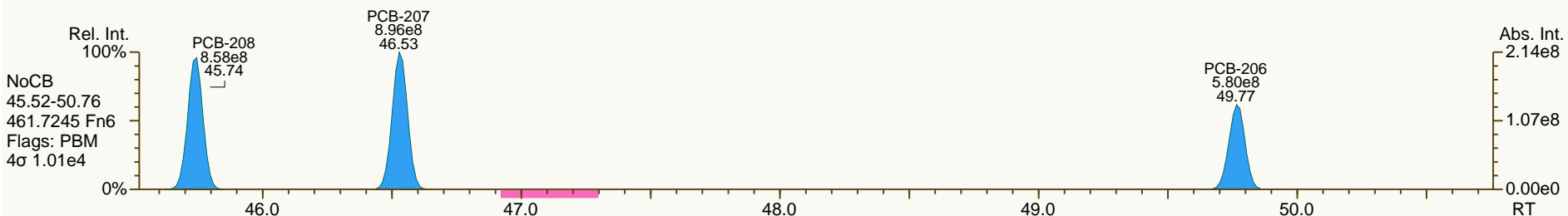
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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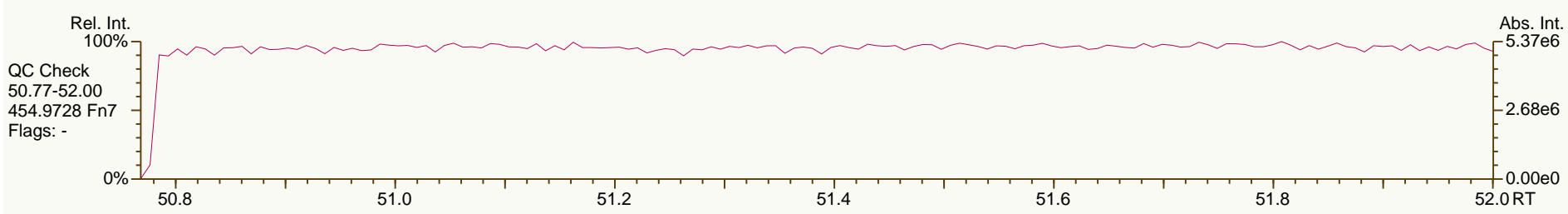
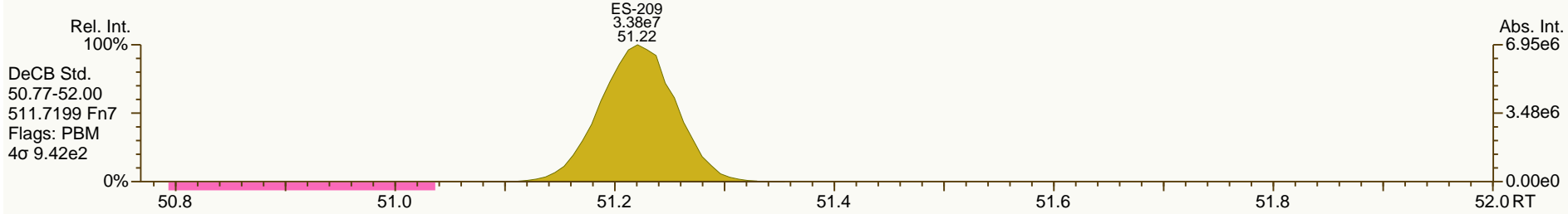
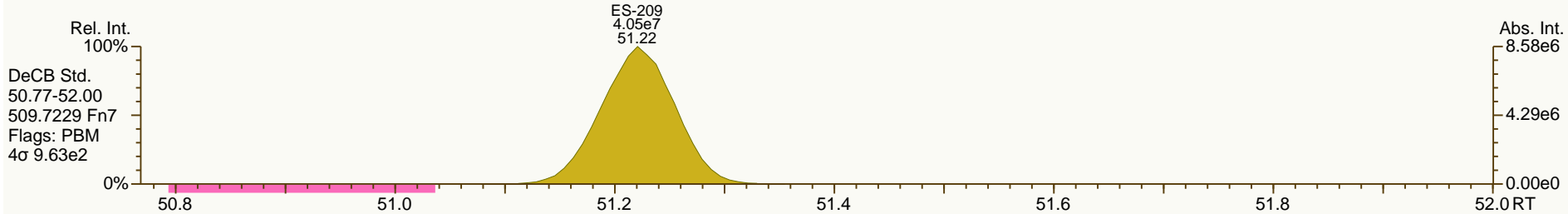
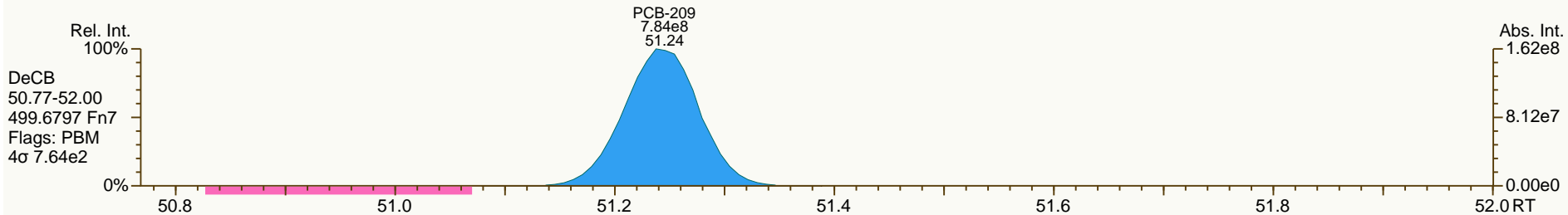
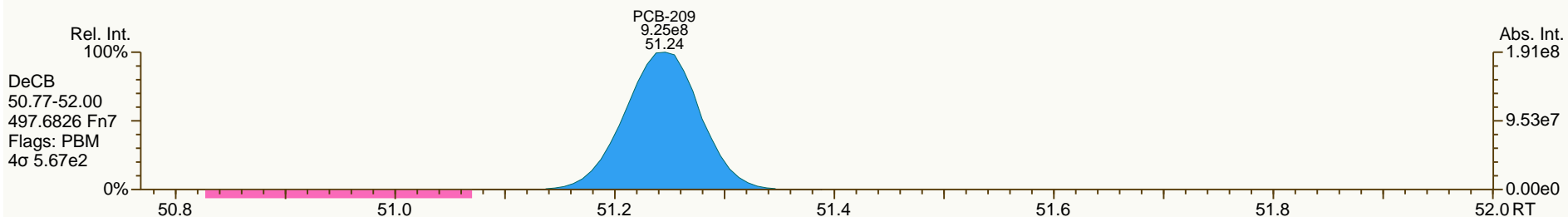
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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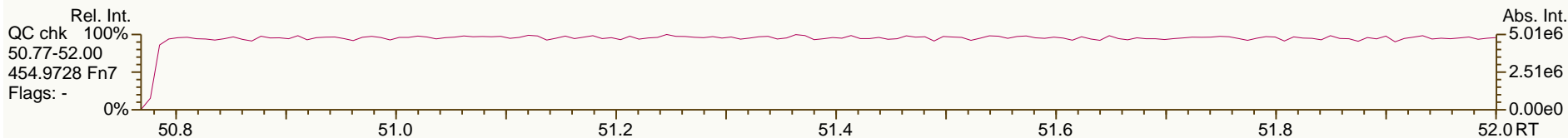
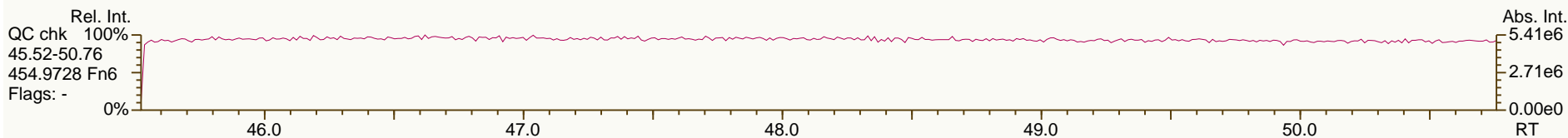
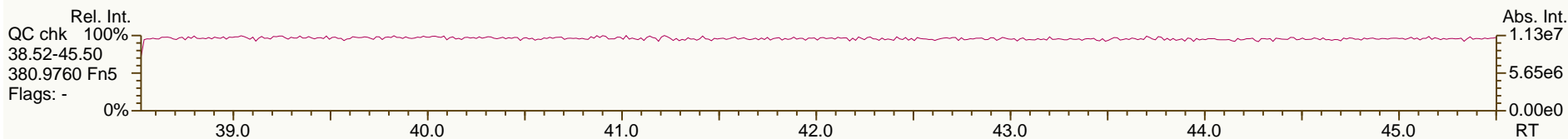
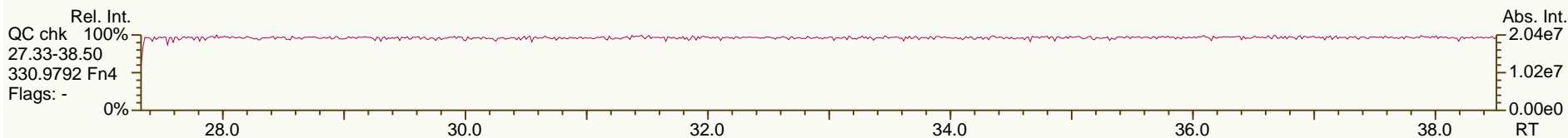
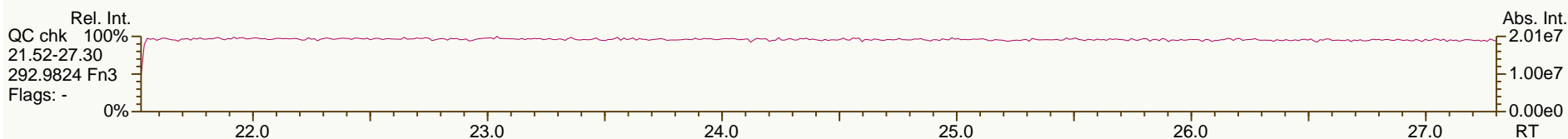
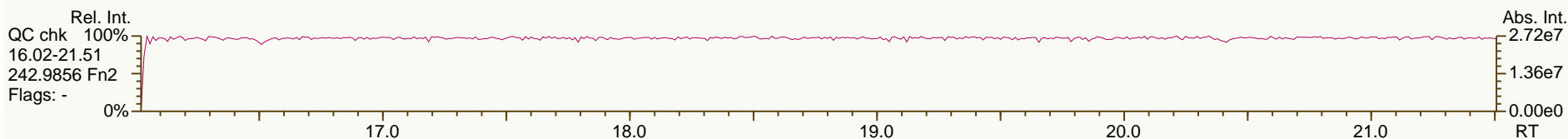
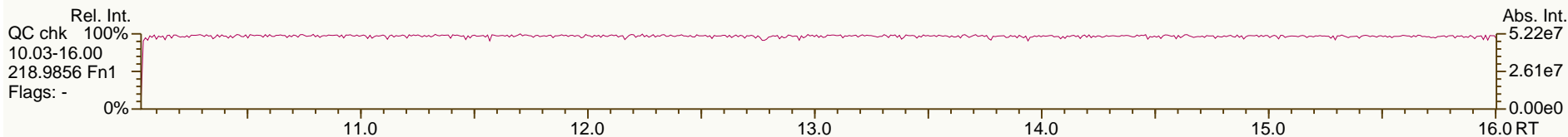
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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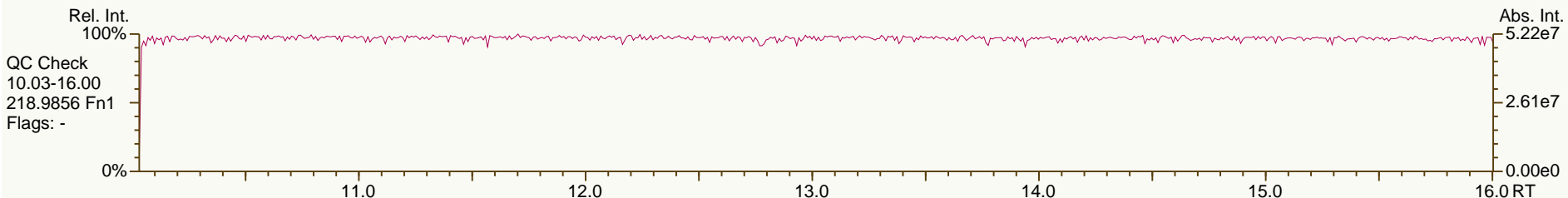
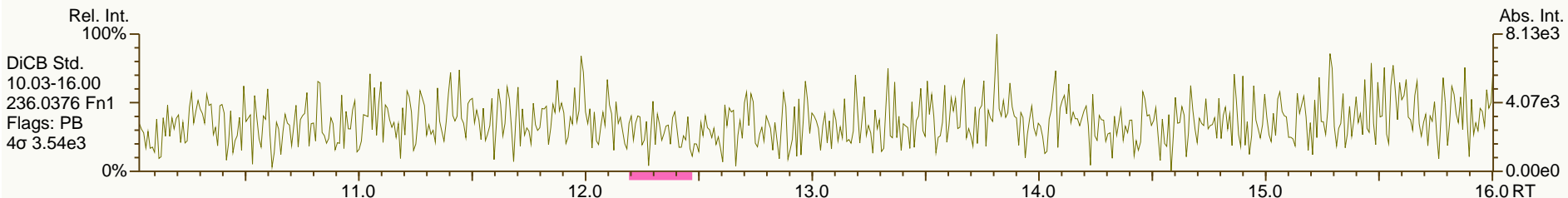
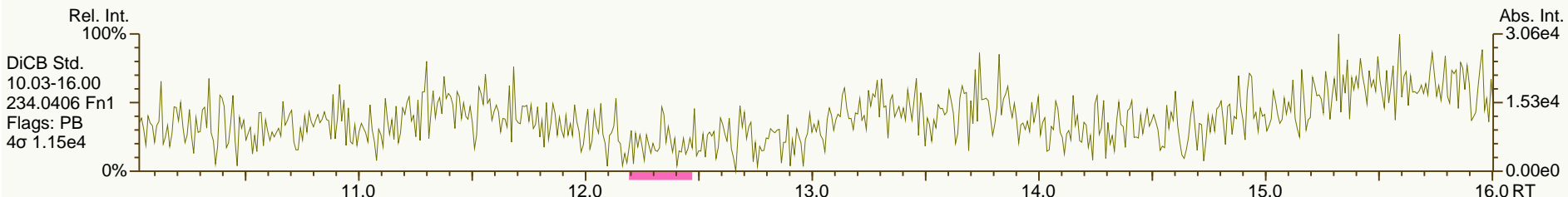
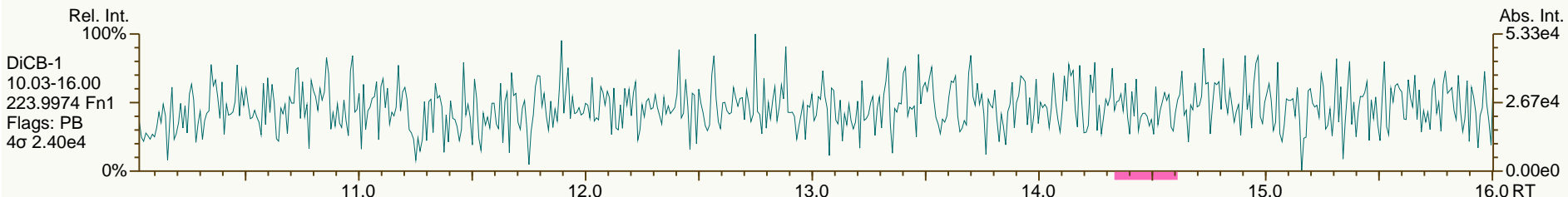
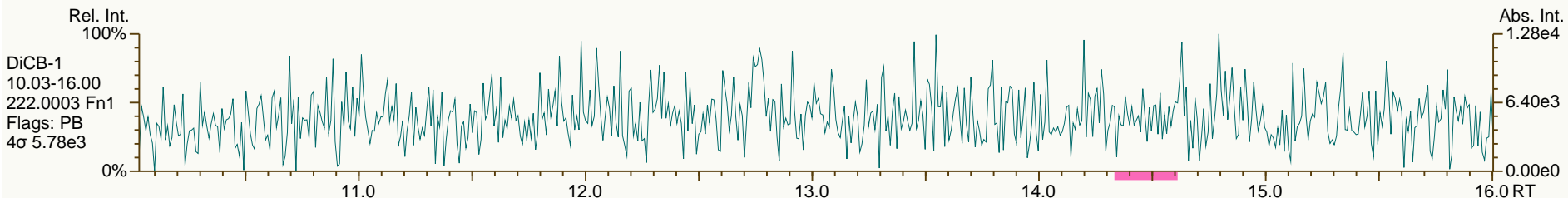
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

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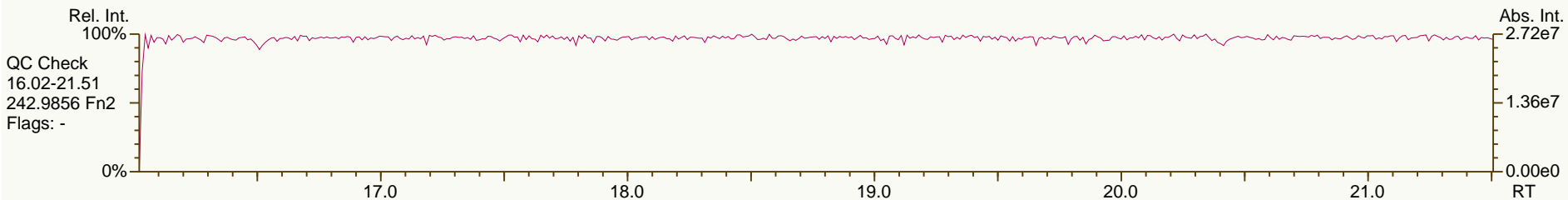
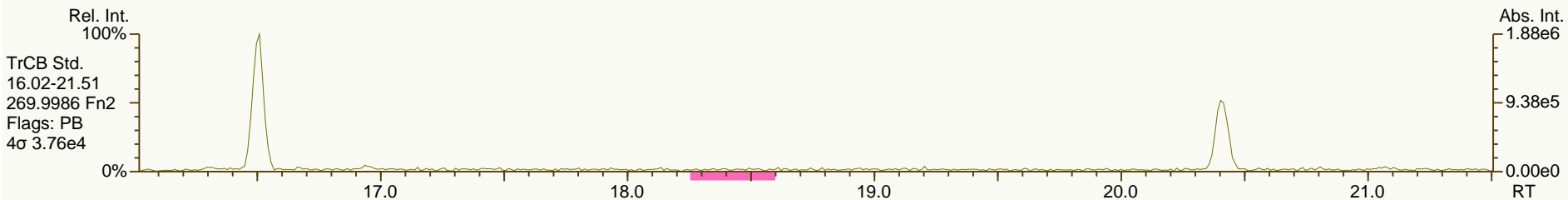
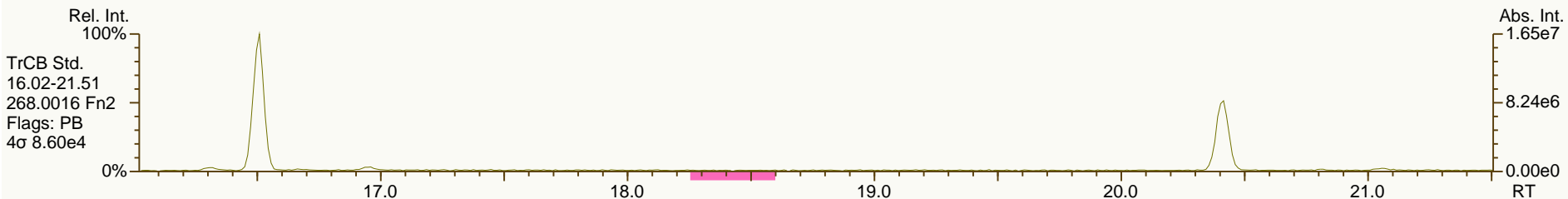
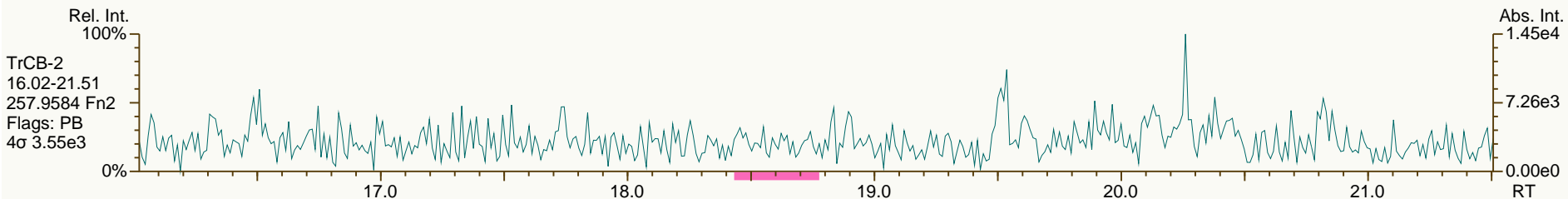
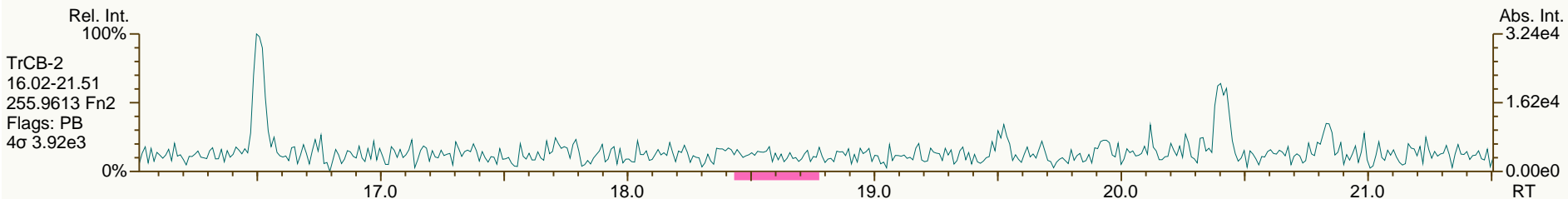
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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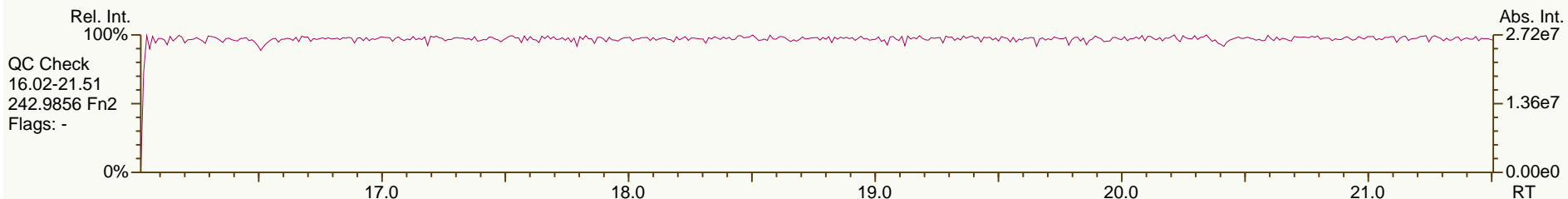
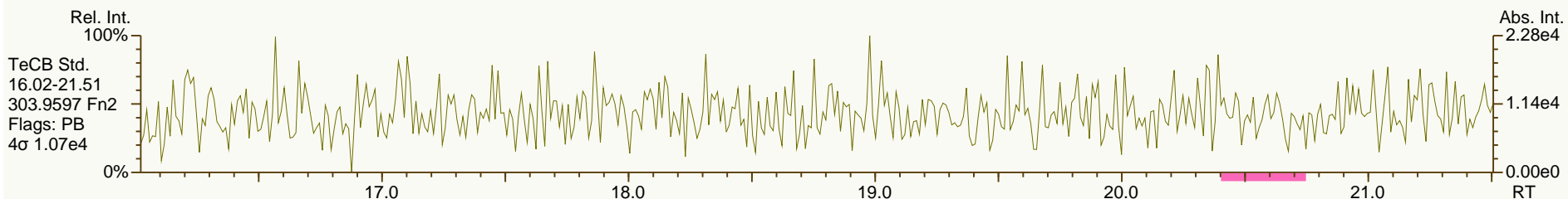
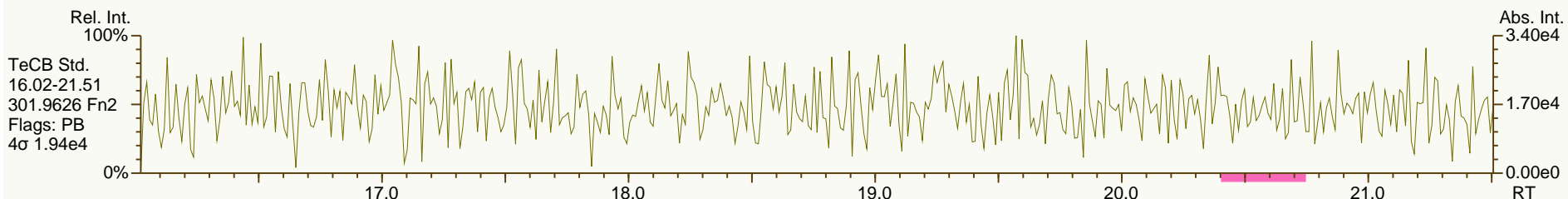
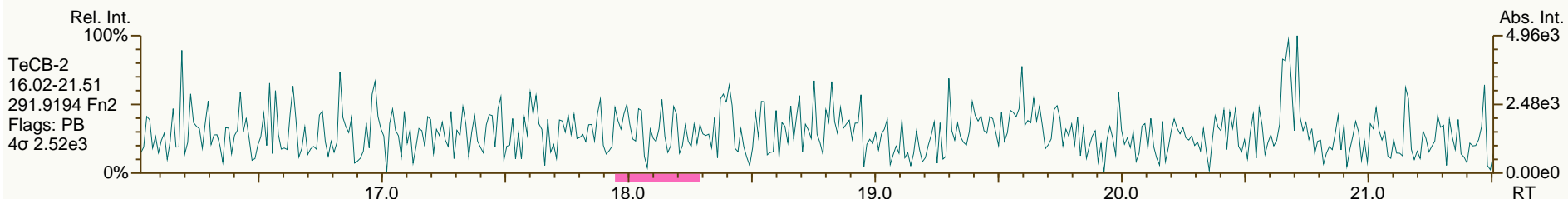
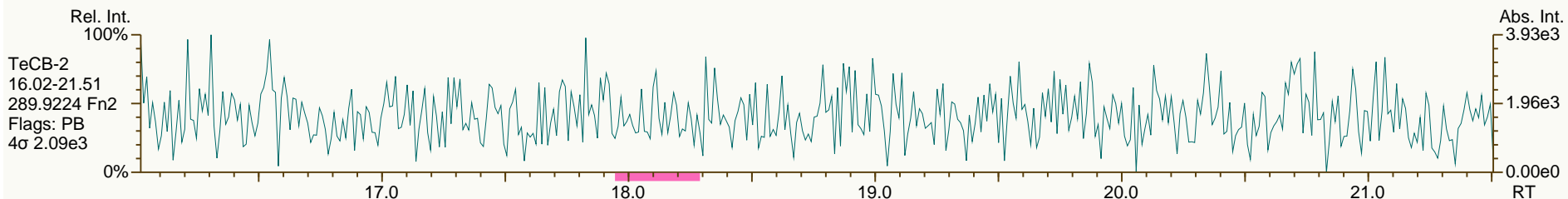
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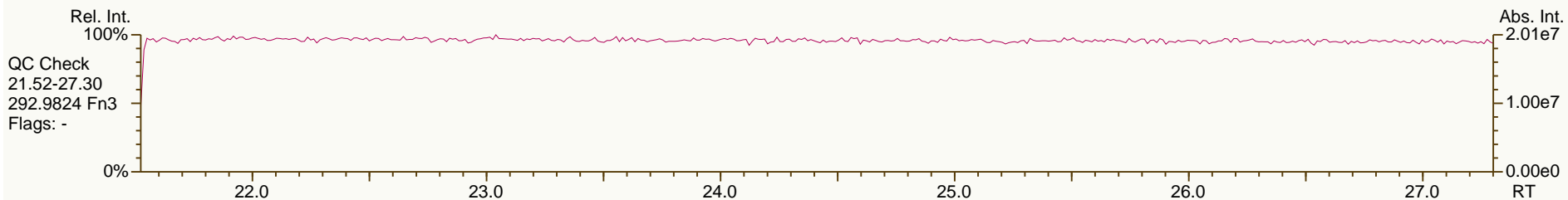
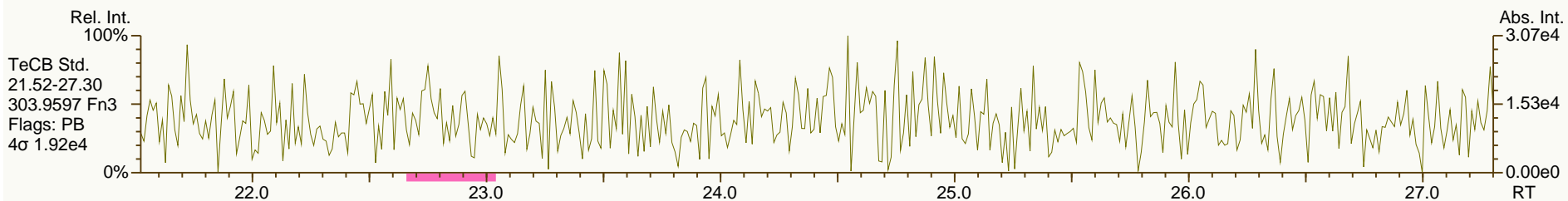
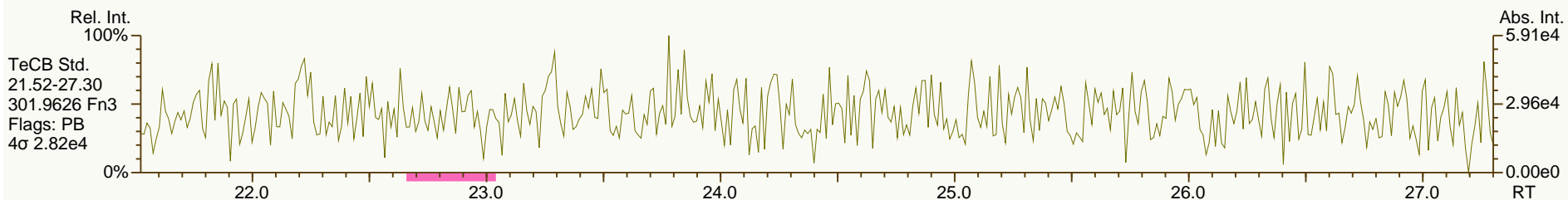
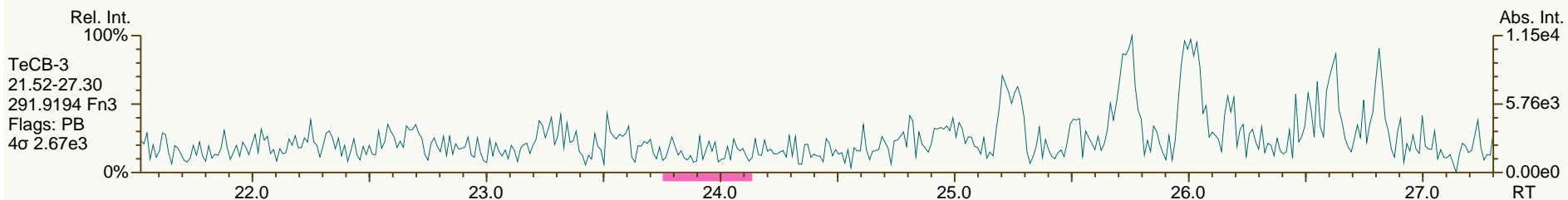
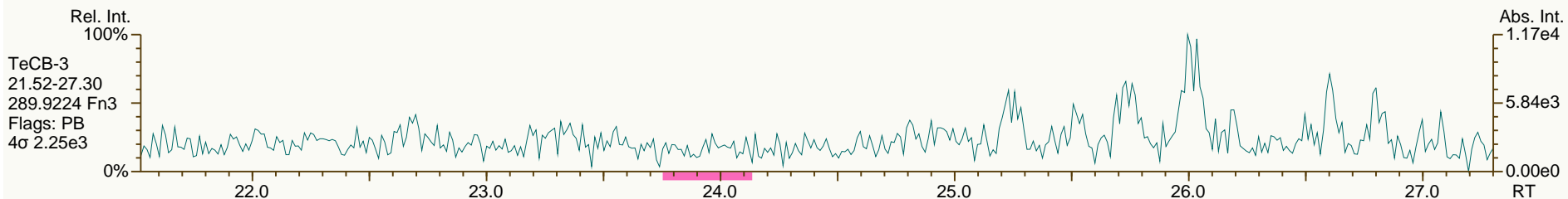
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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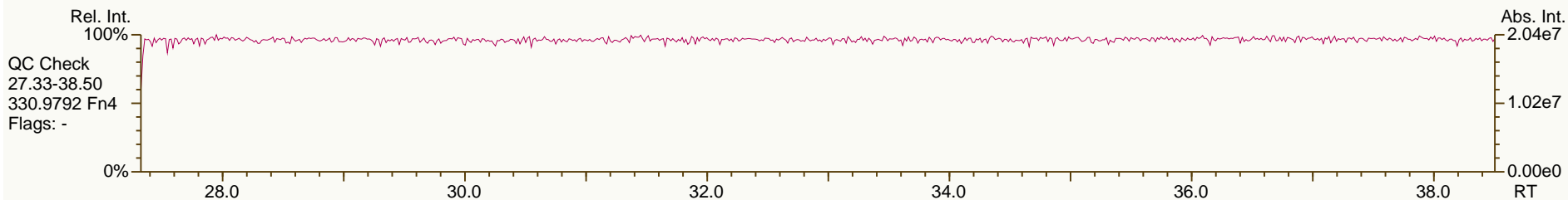
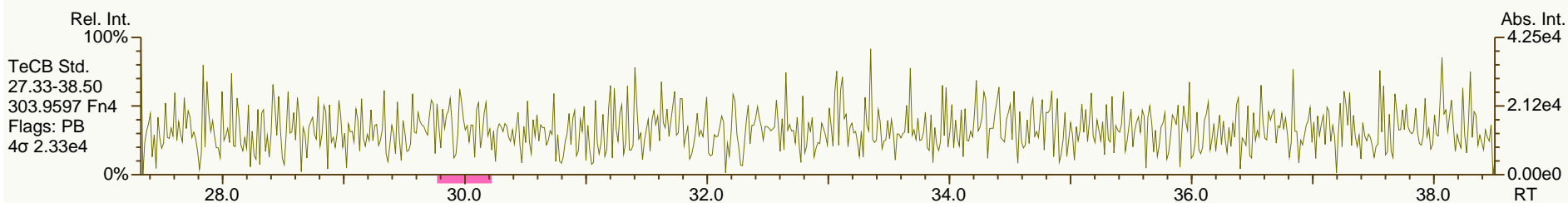
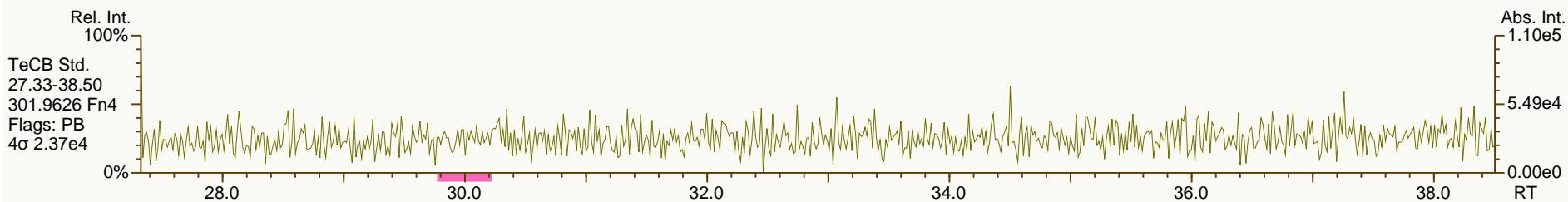
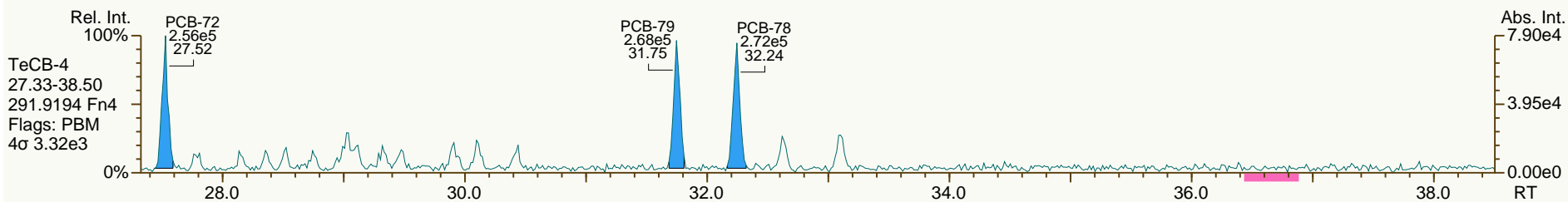
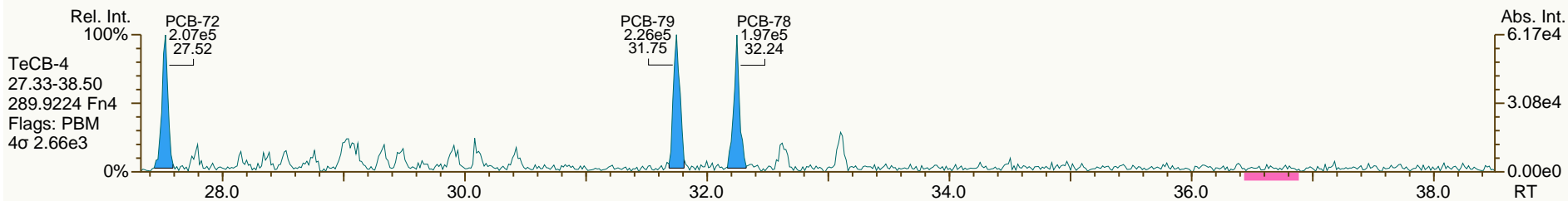
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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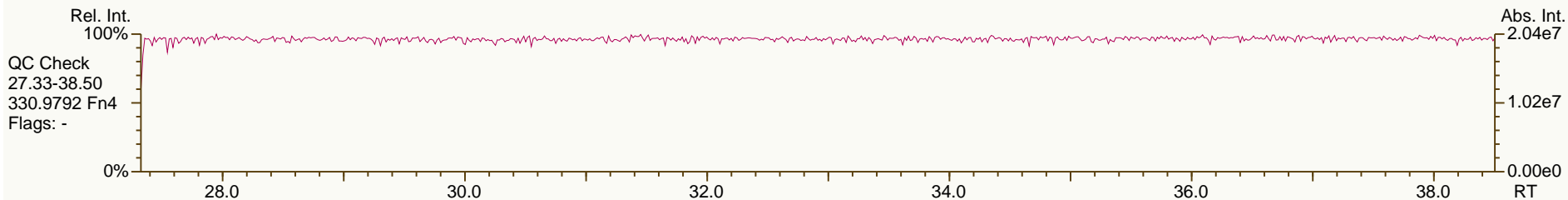
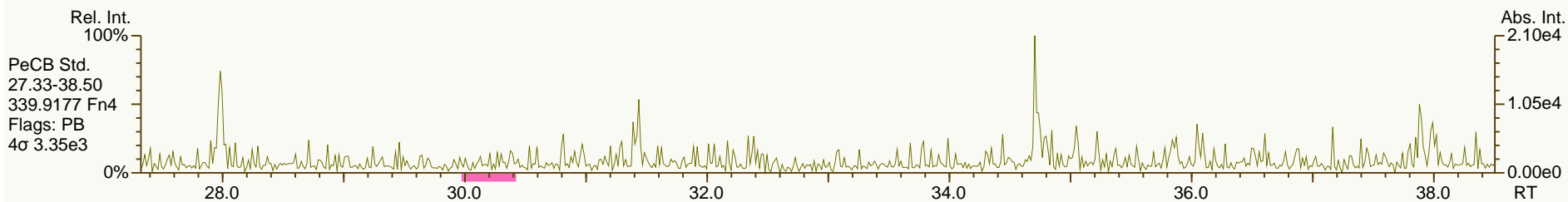
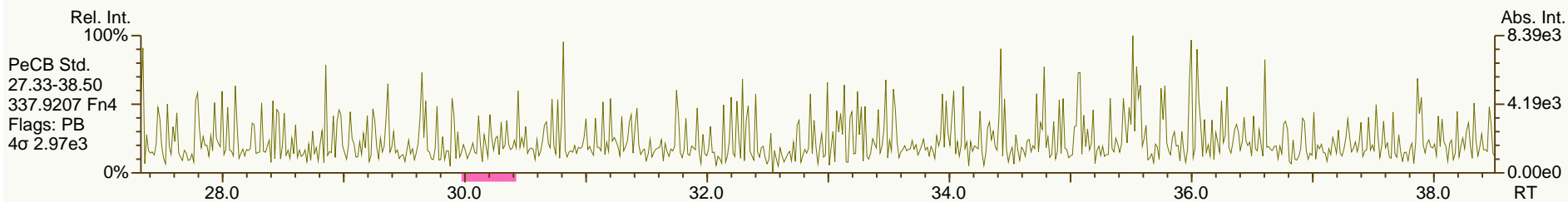
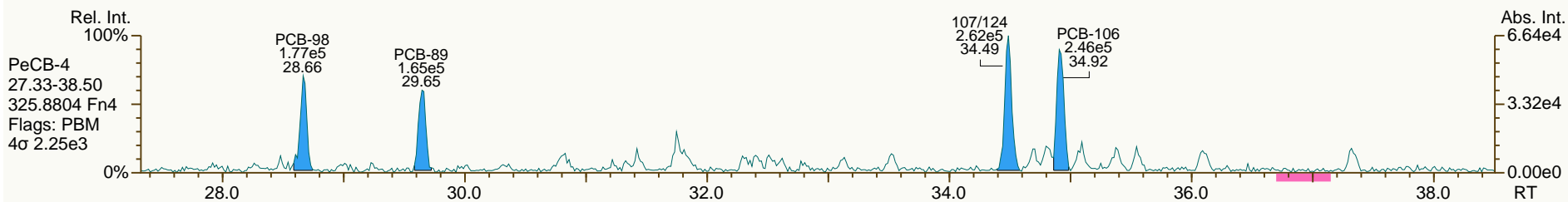
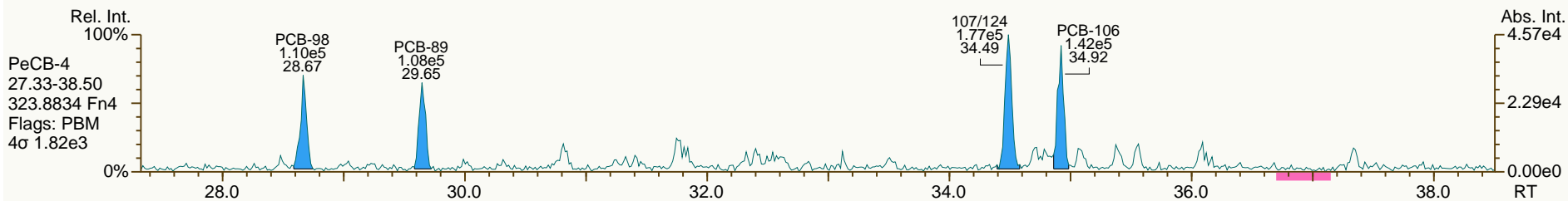
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VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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User: LKB Datafile: 131220X07



SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
User: LKB Datafile: 131220X07



SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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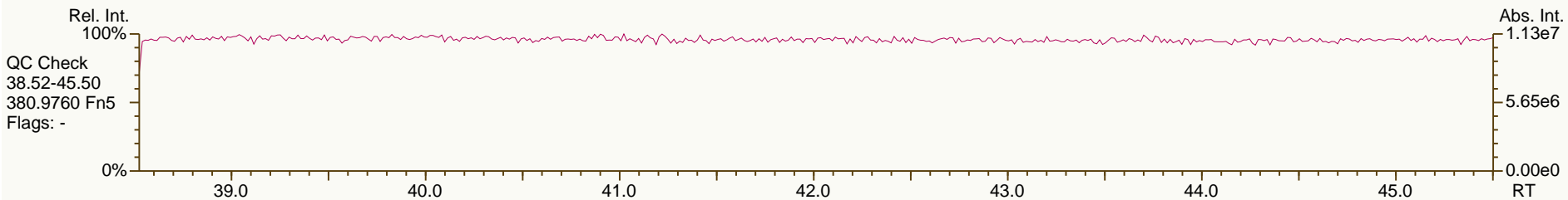
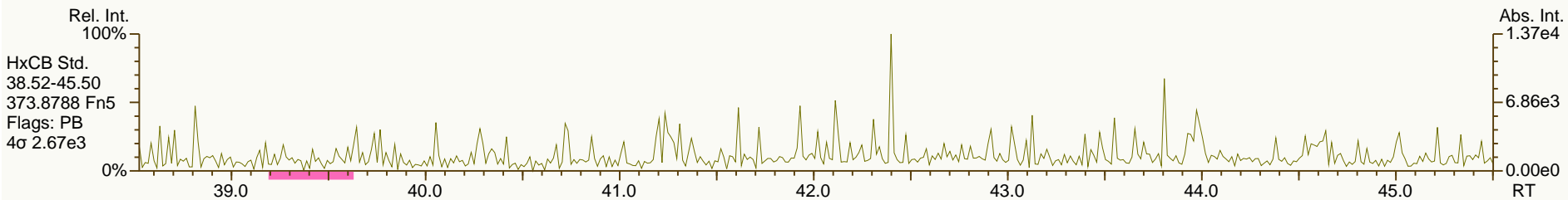
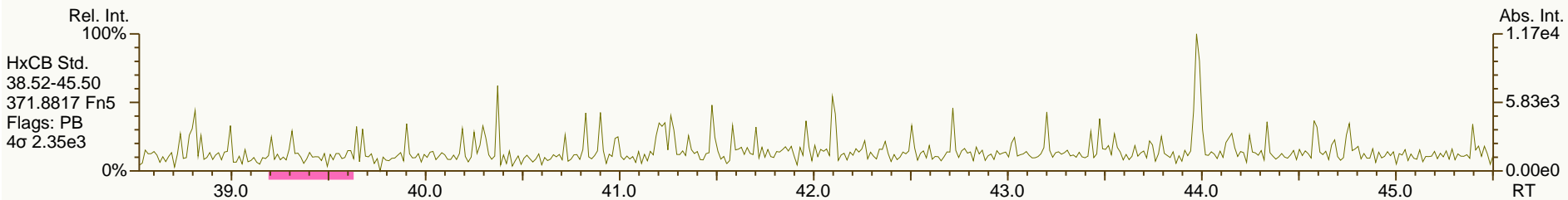
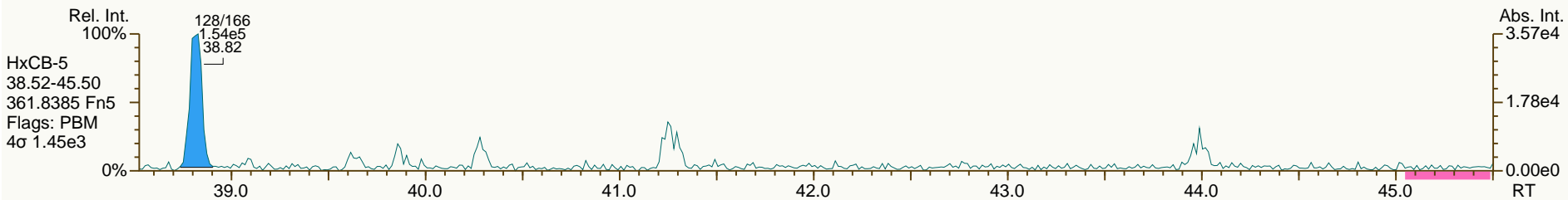
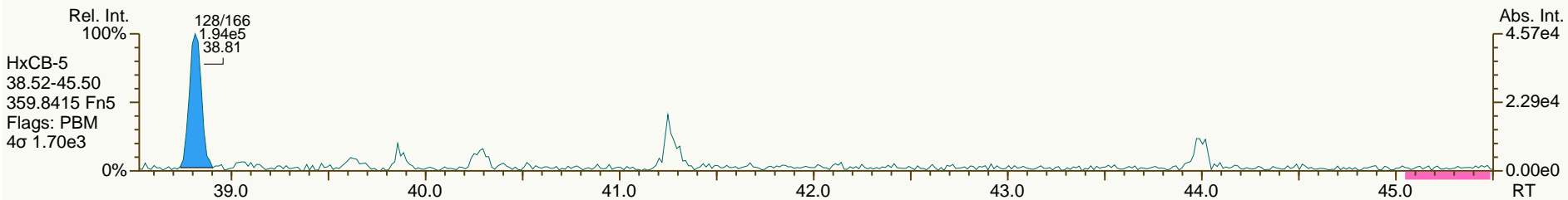
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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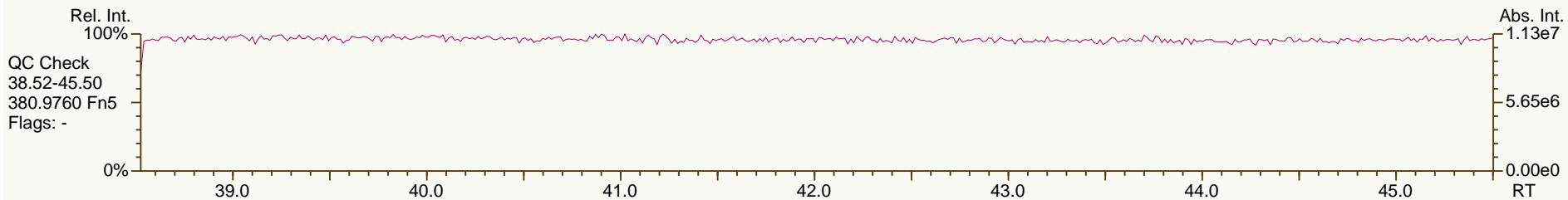
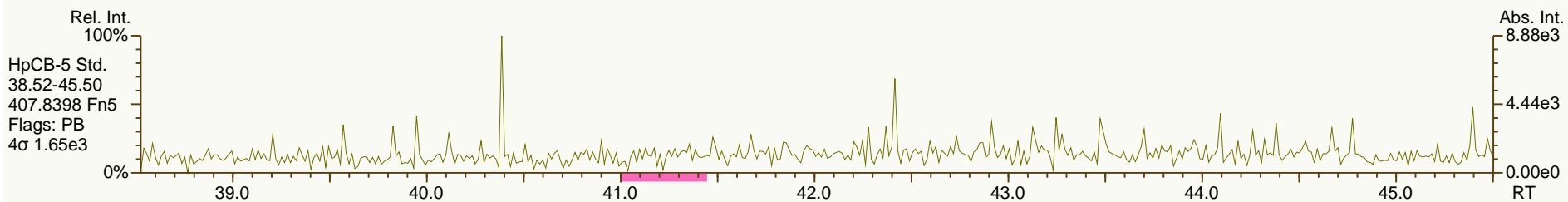
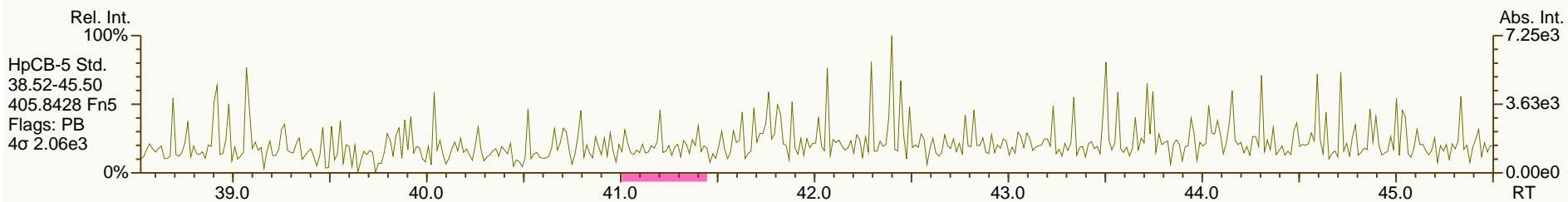
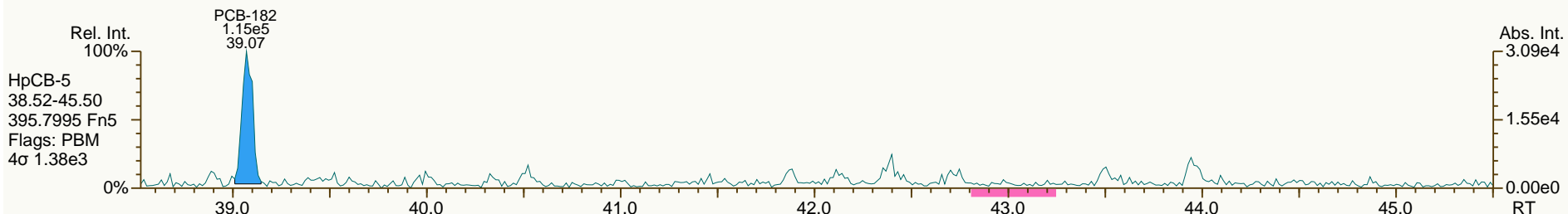
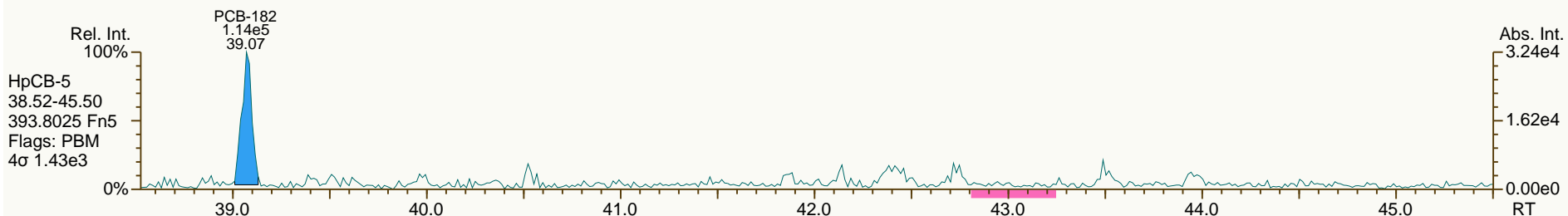
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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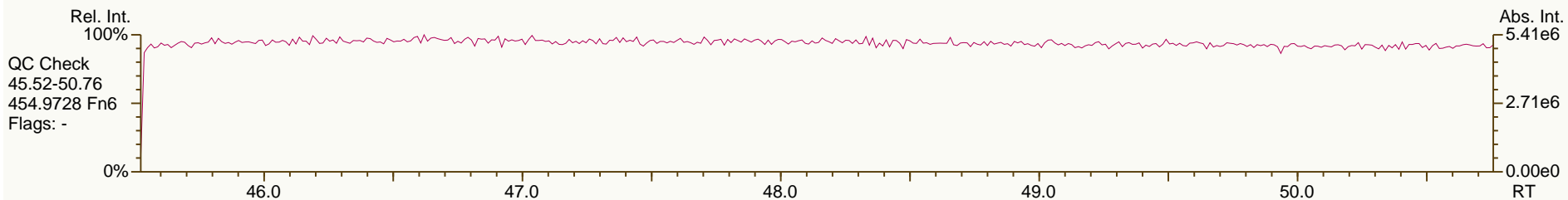
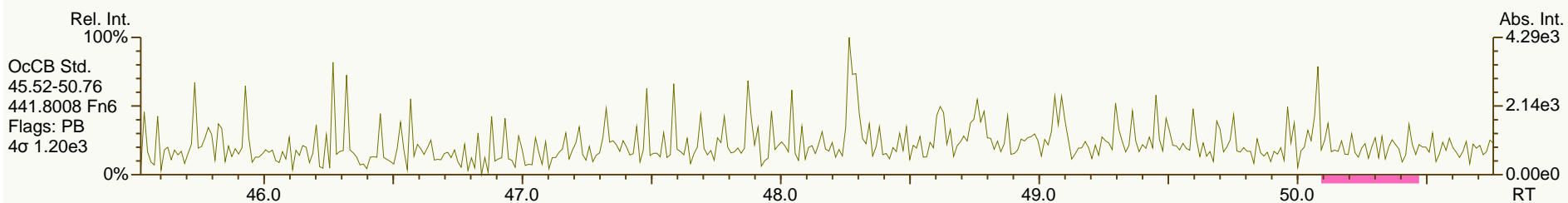
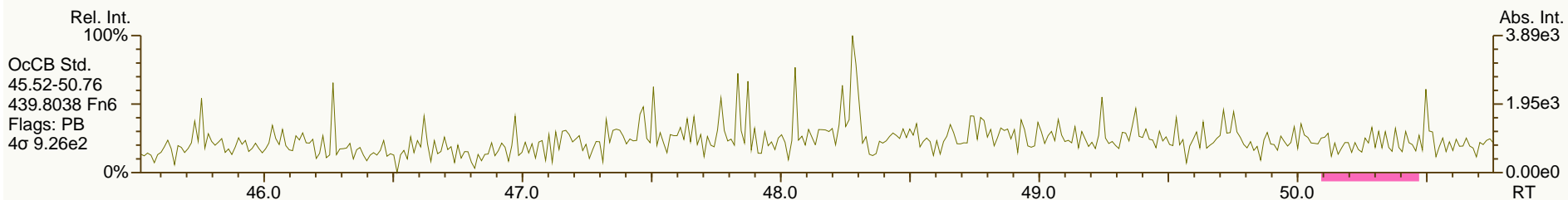
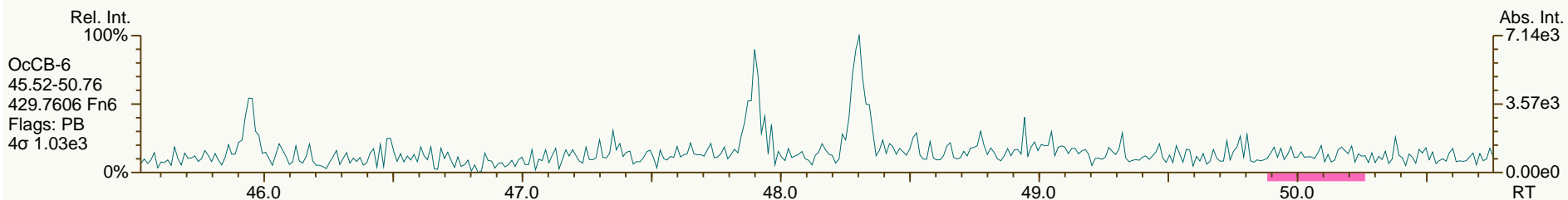
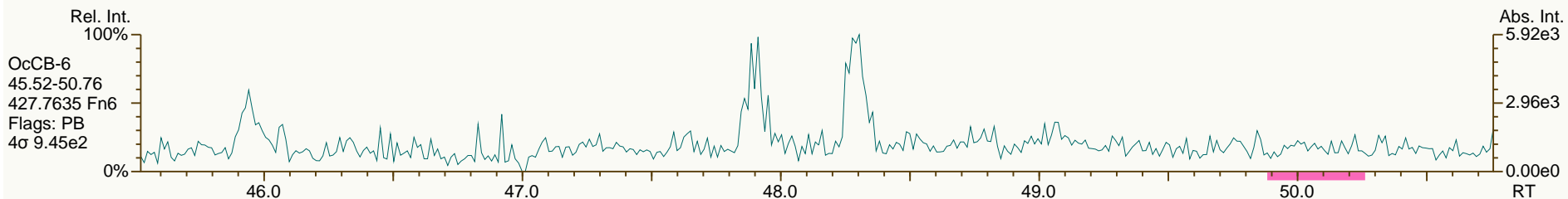
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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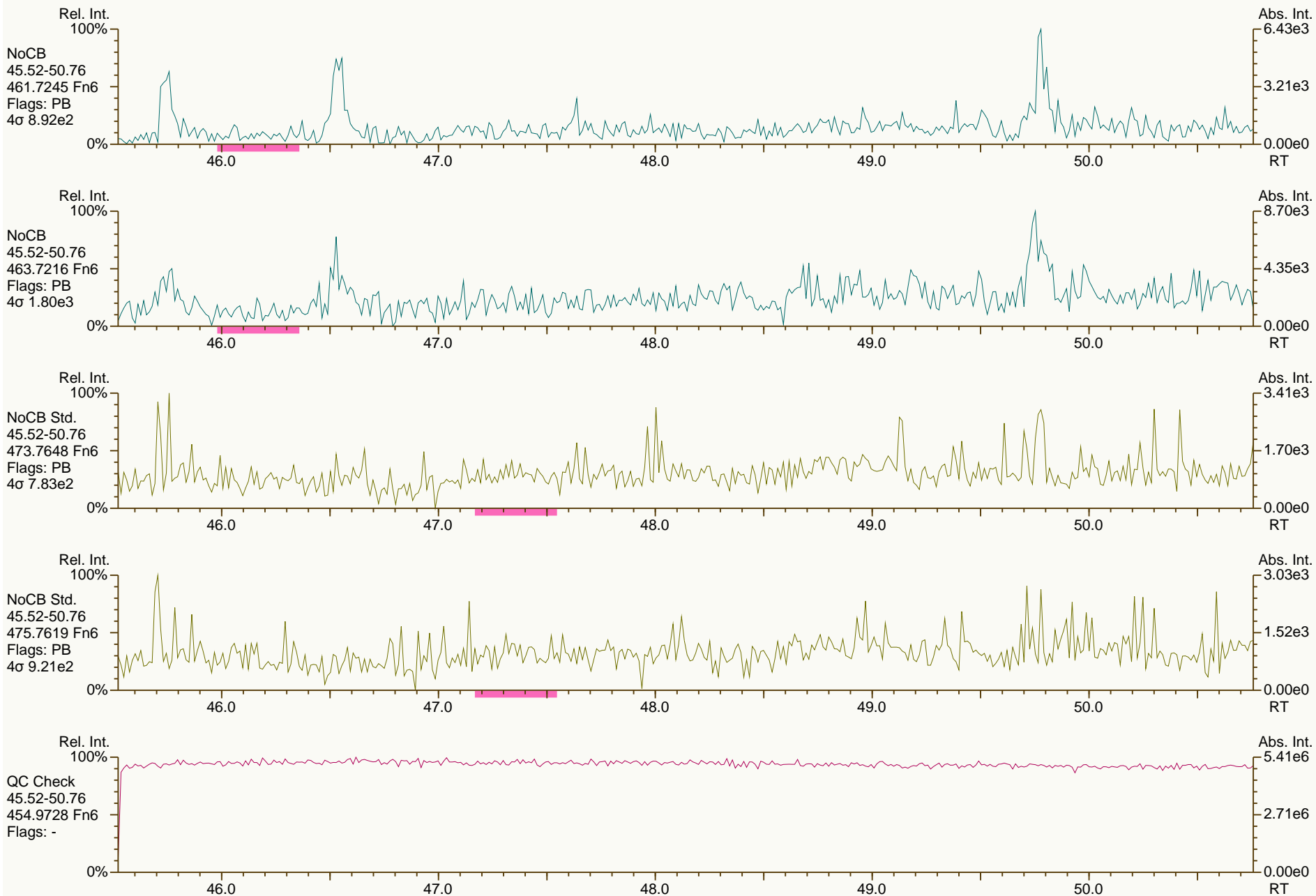
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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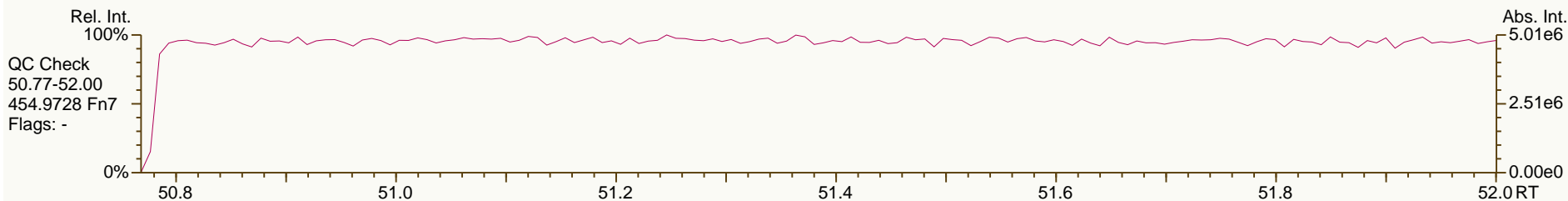
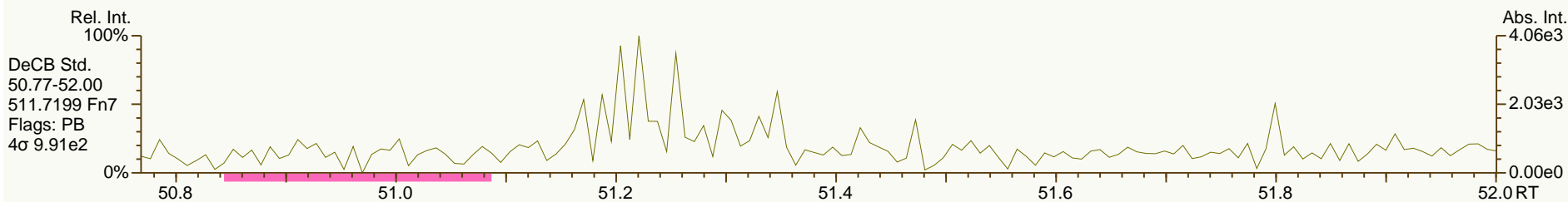
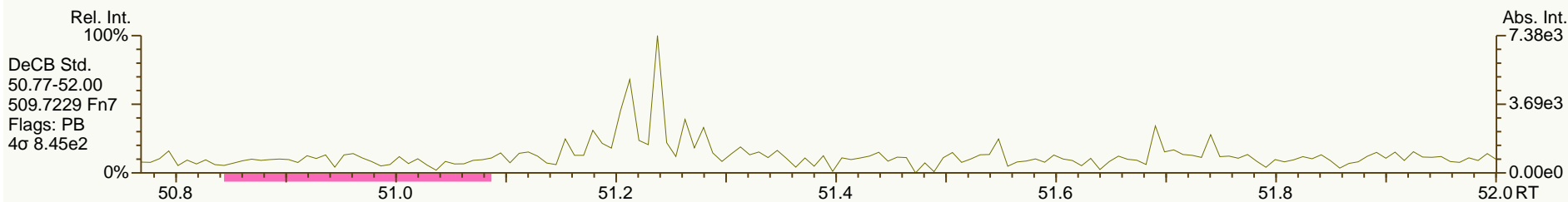
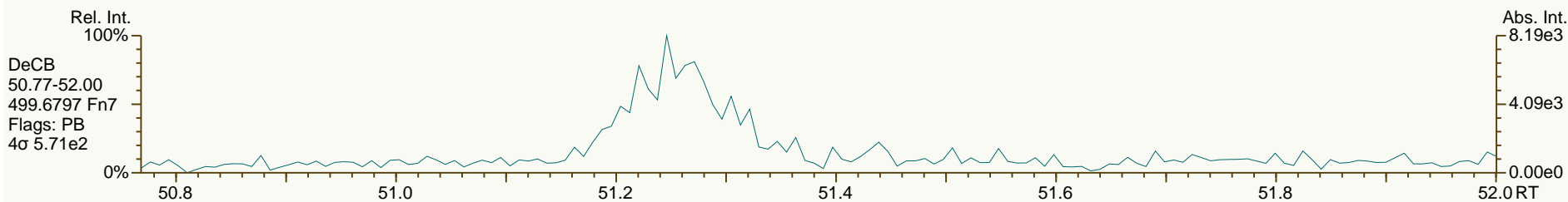
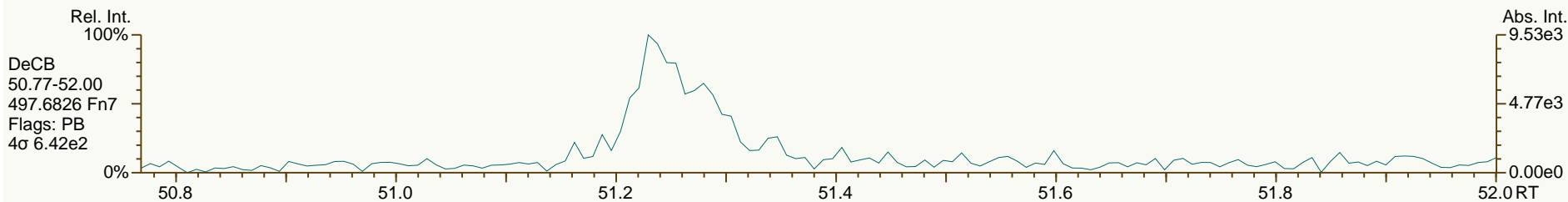
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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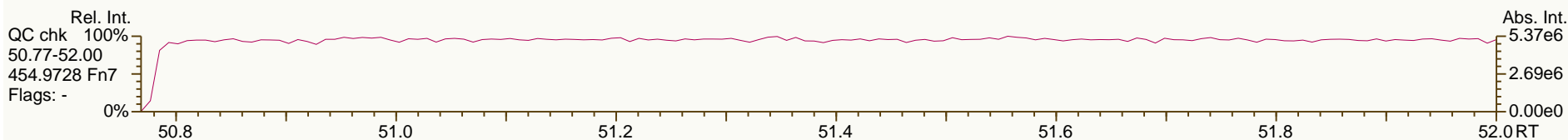
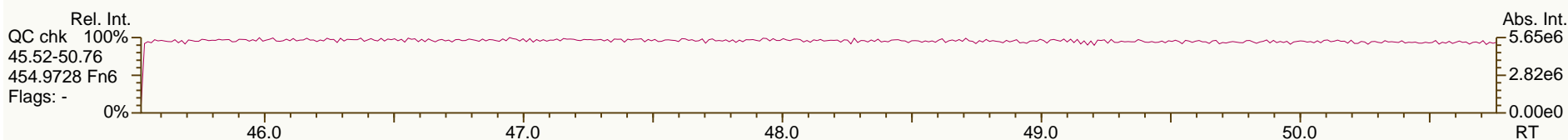
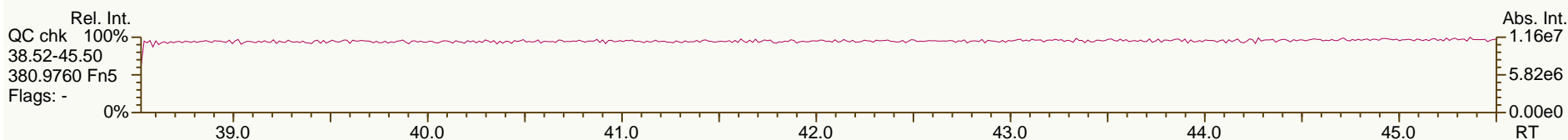
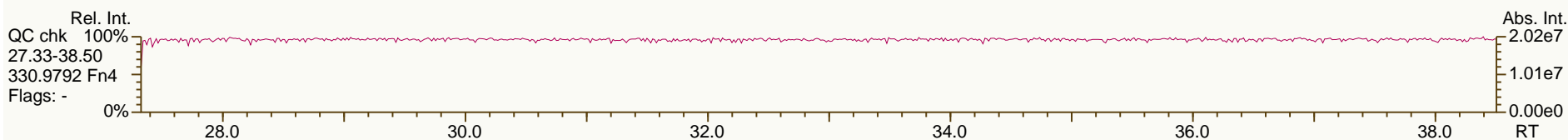
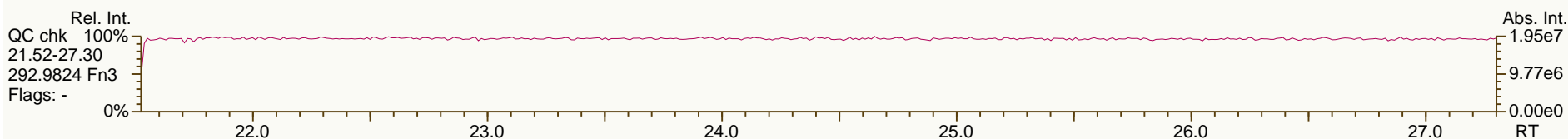
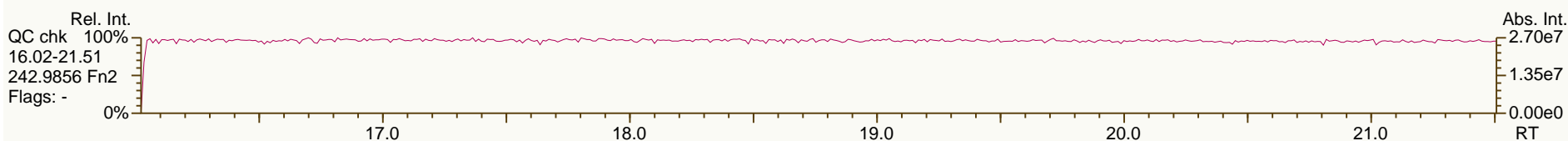
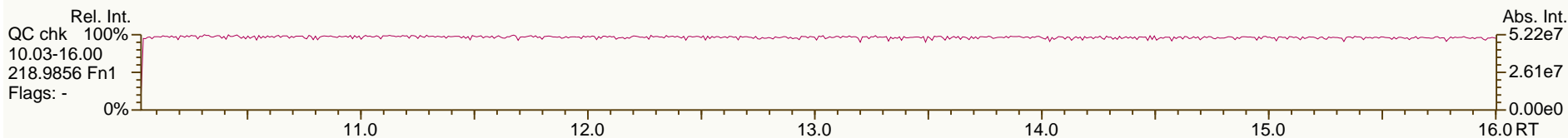
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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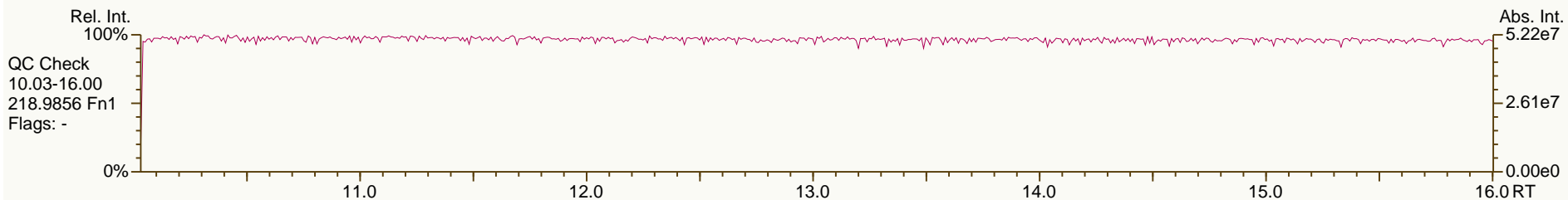
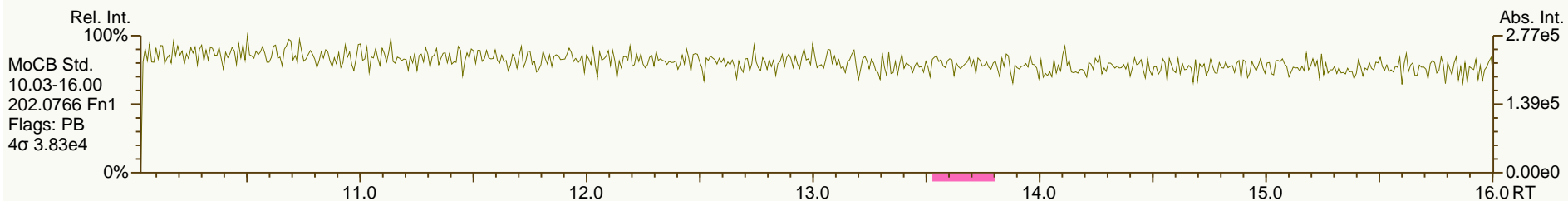
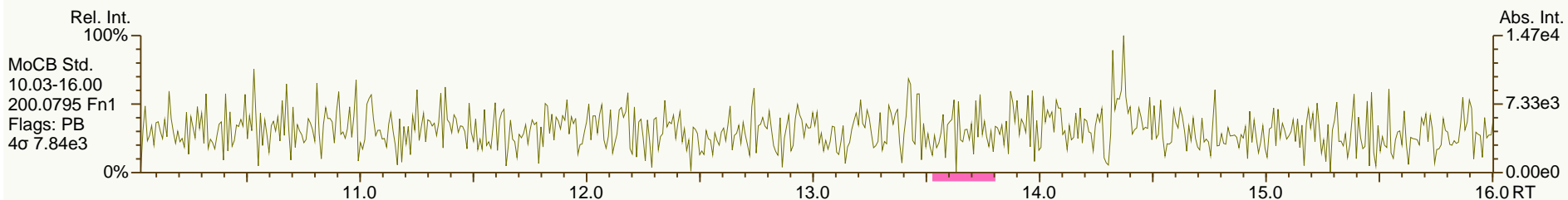
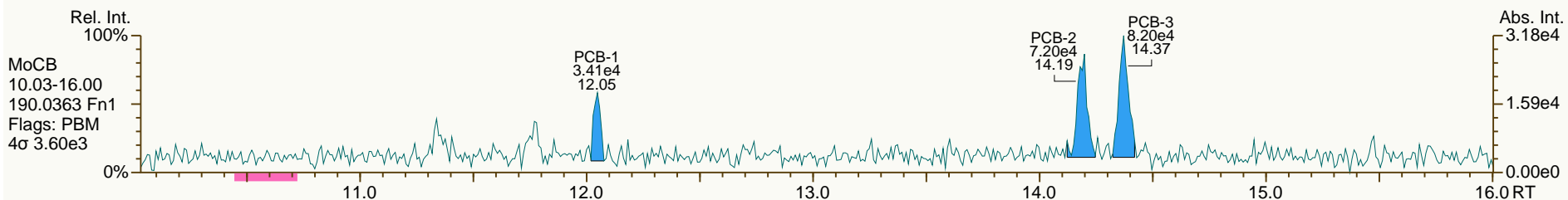
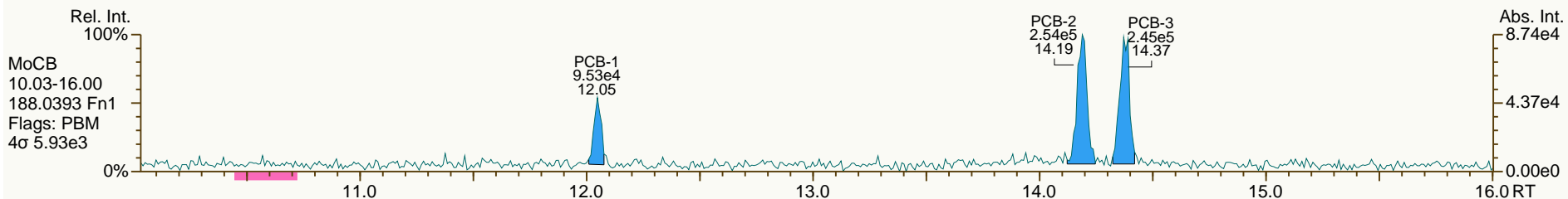
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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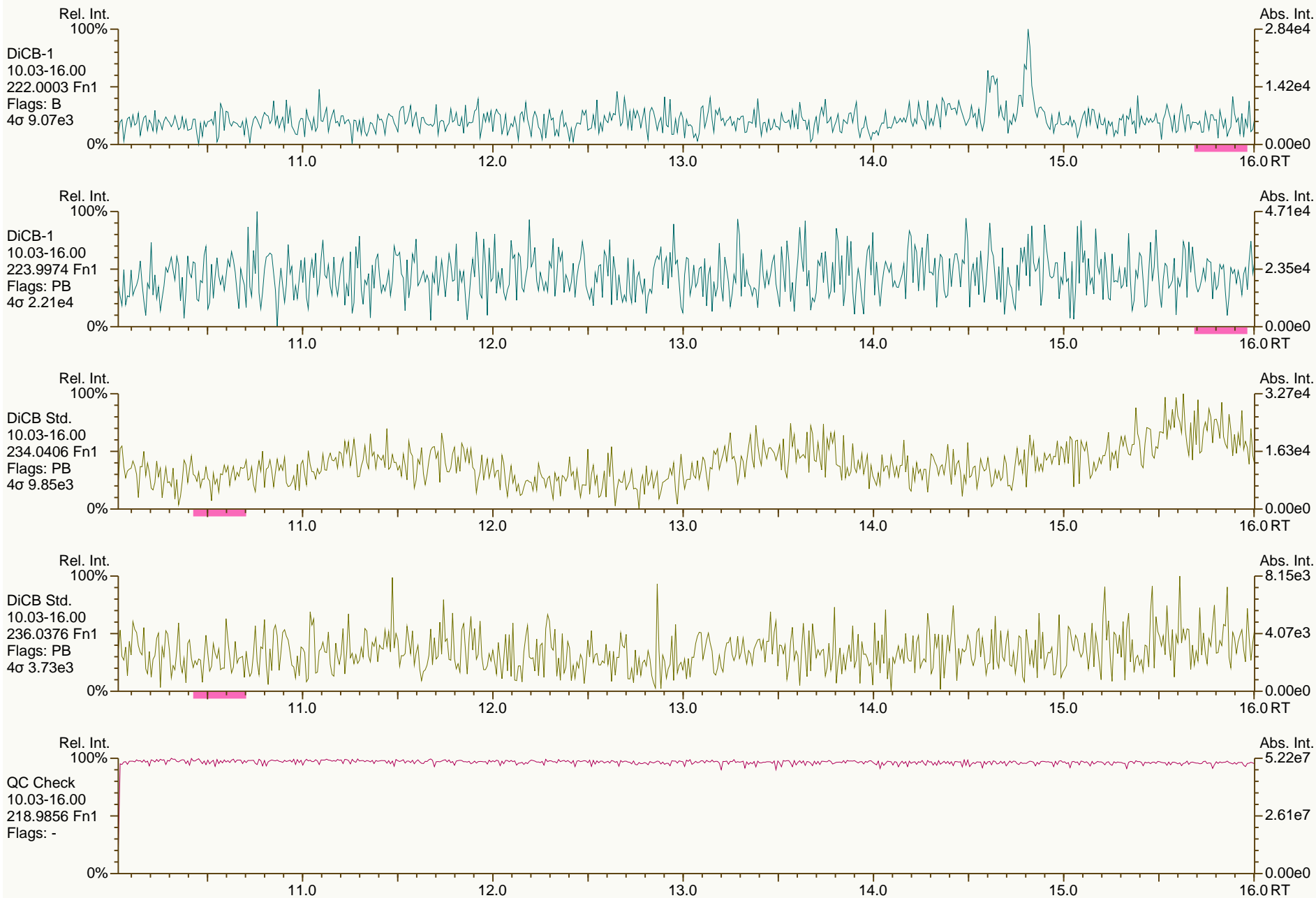
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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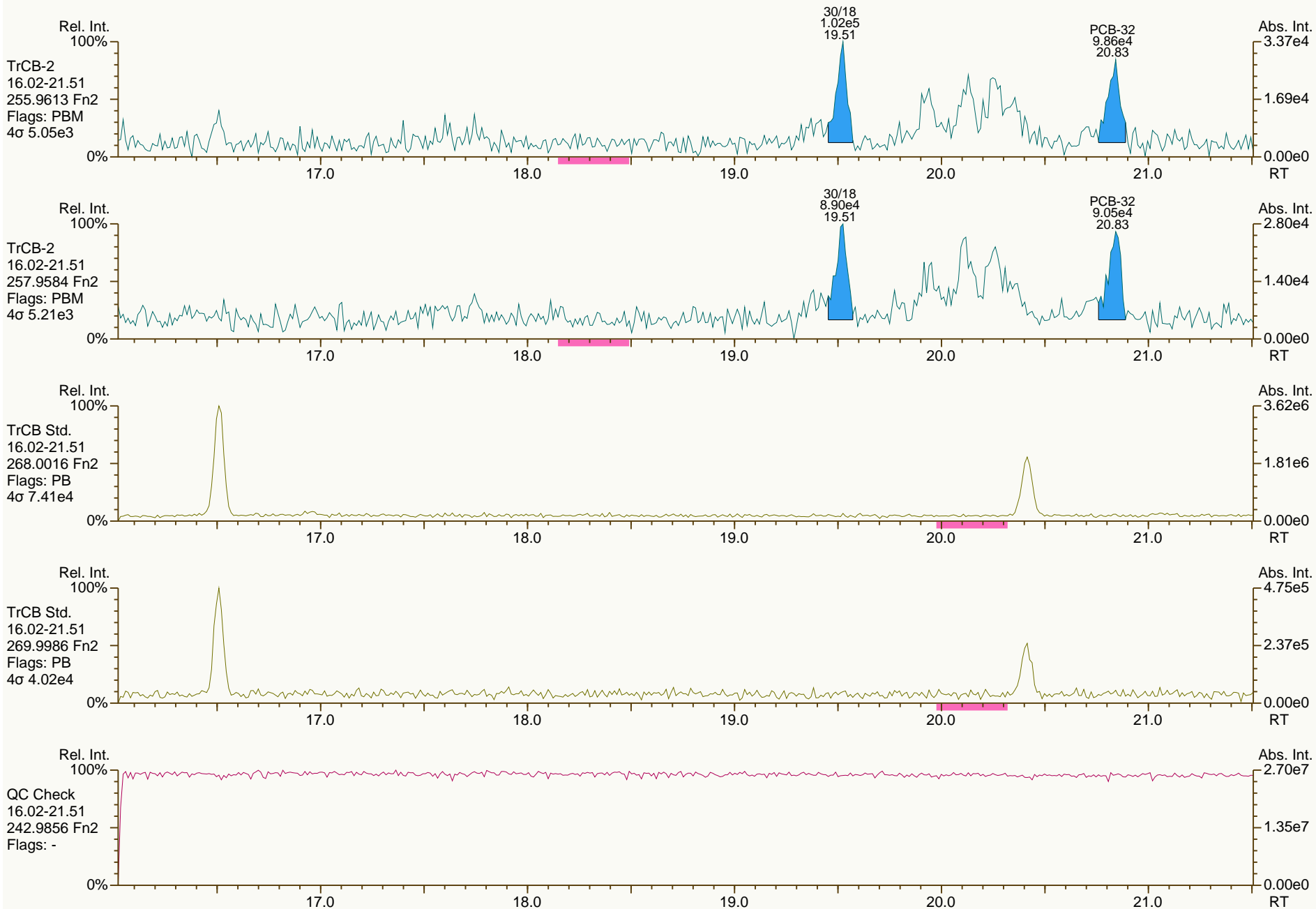




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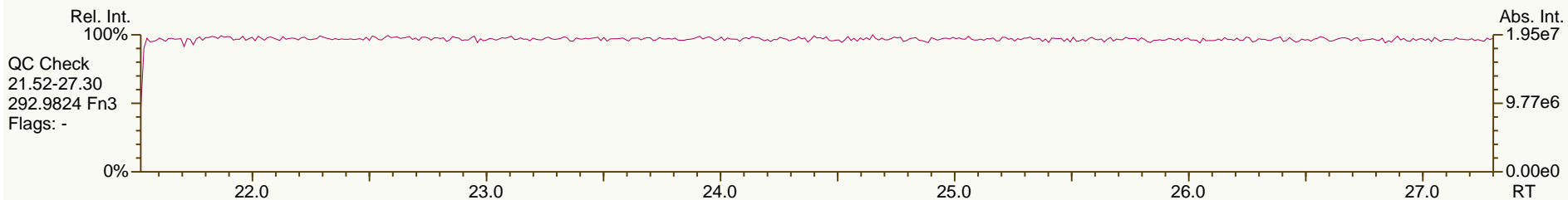
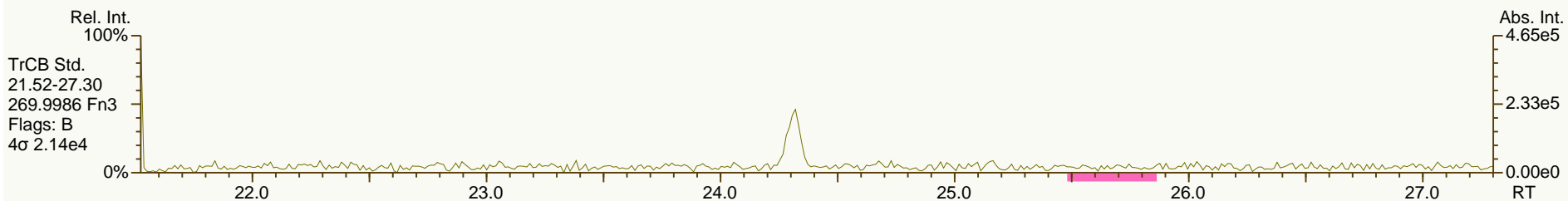
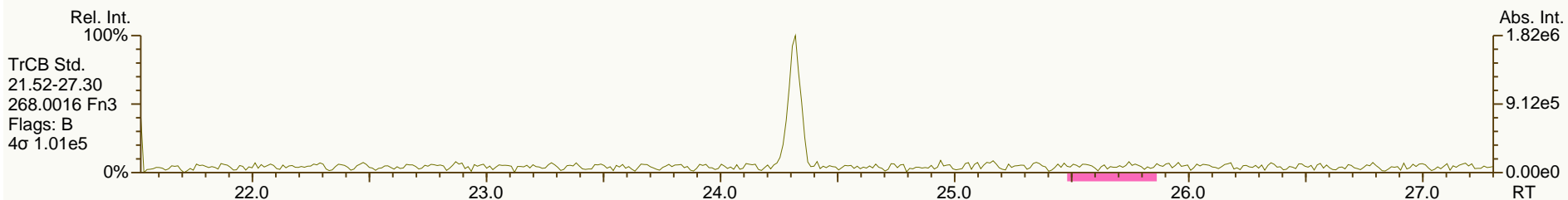
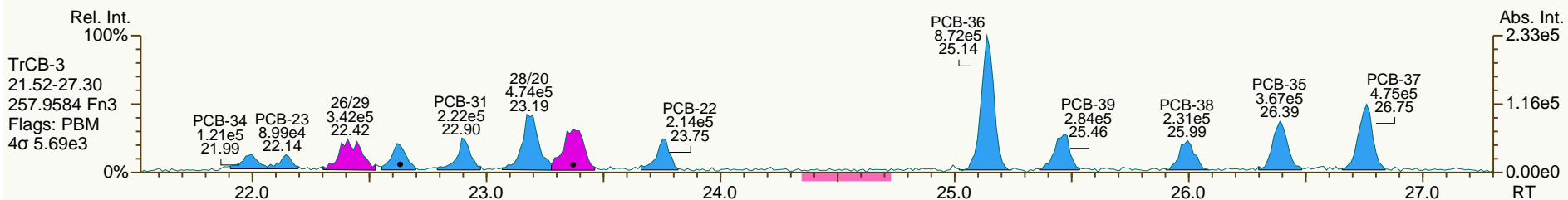
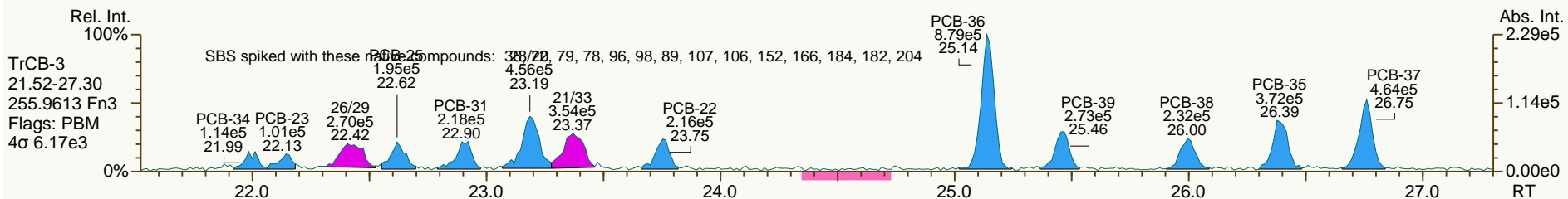
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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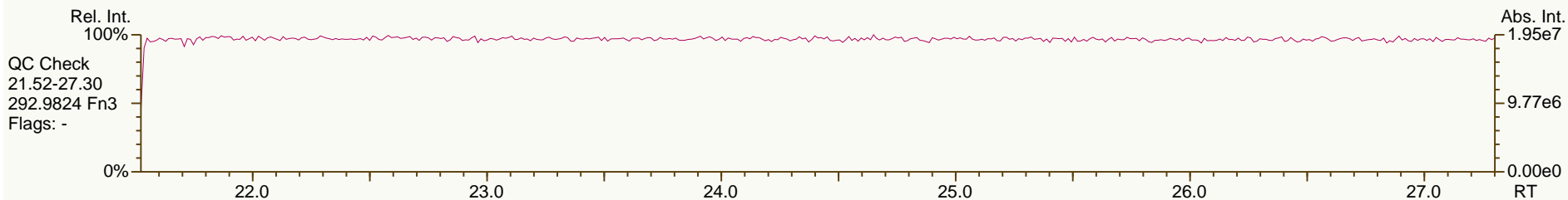
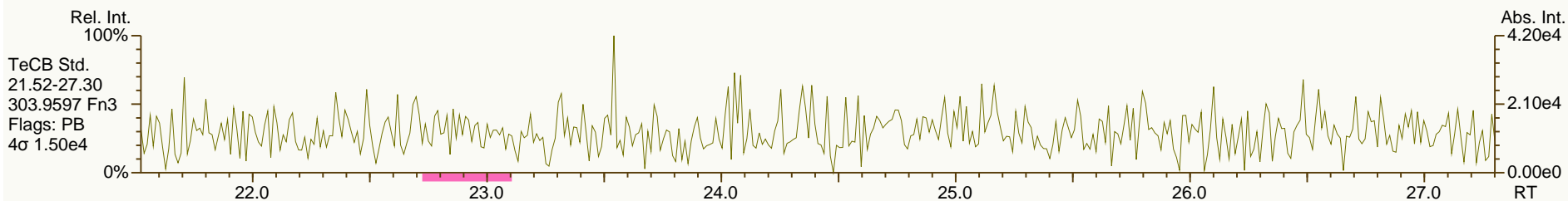
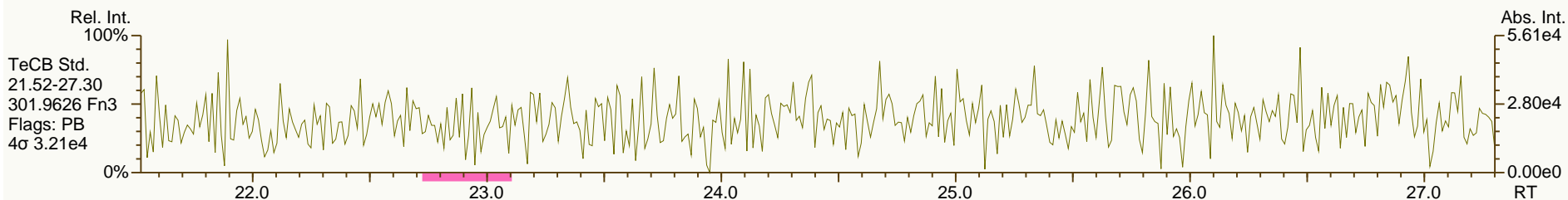
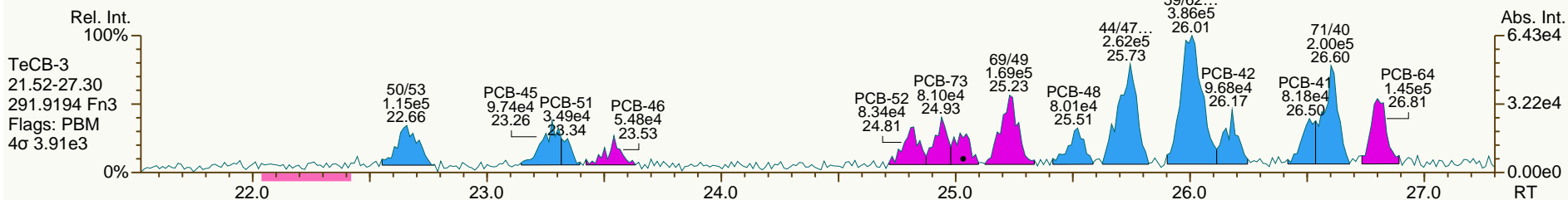
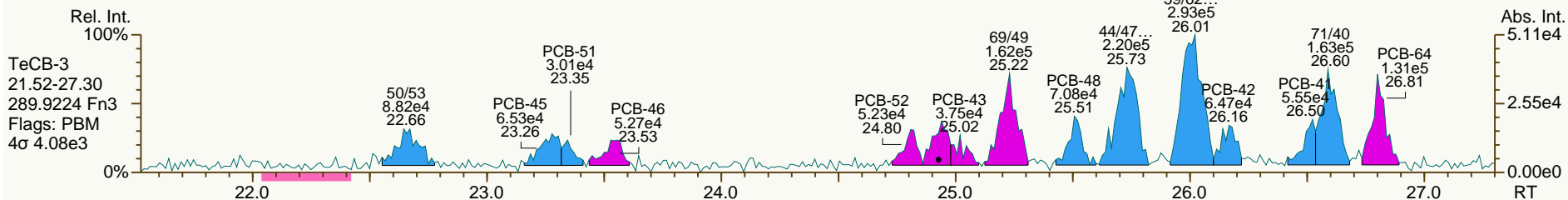
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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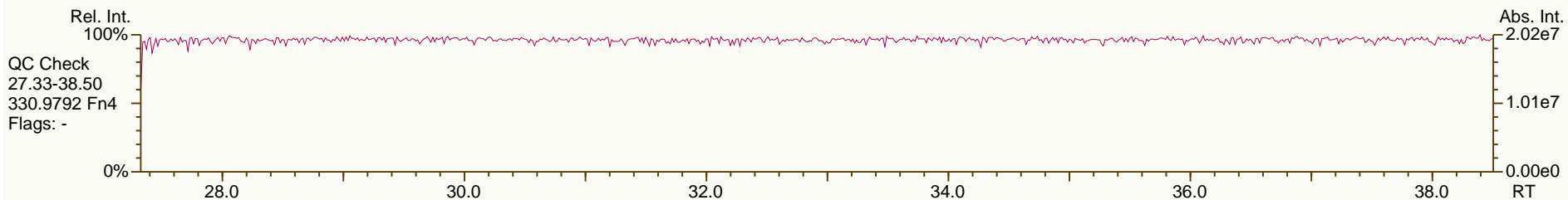
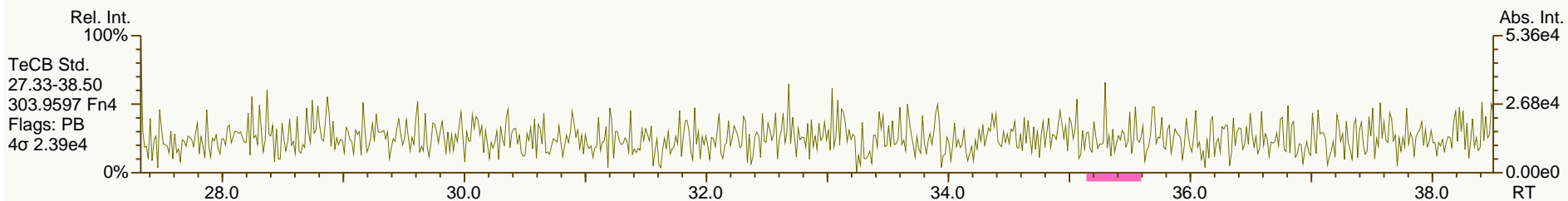
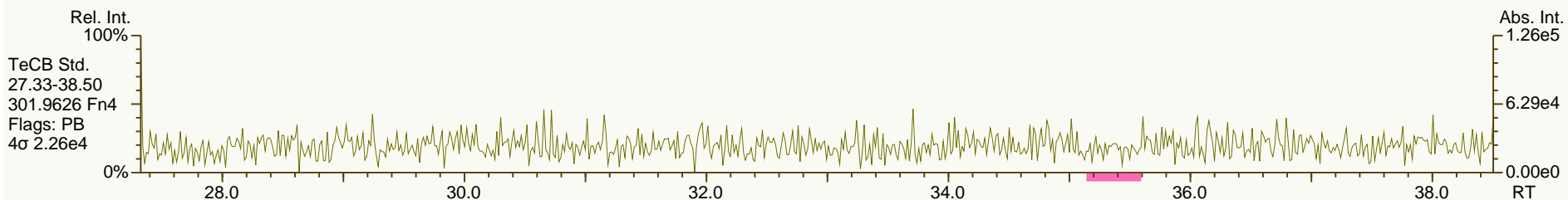
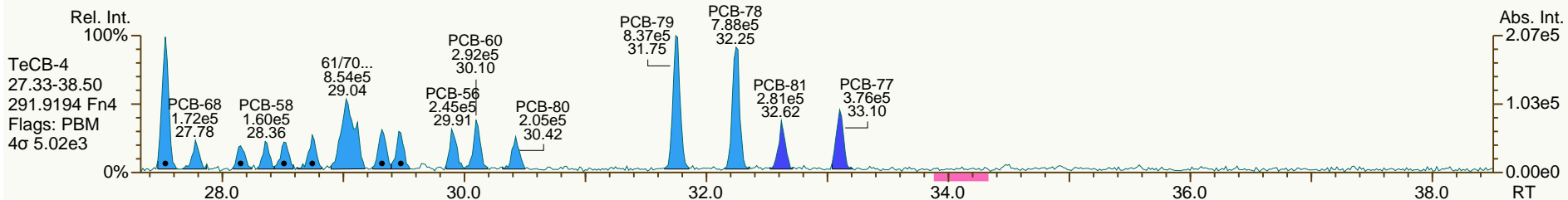
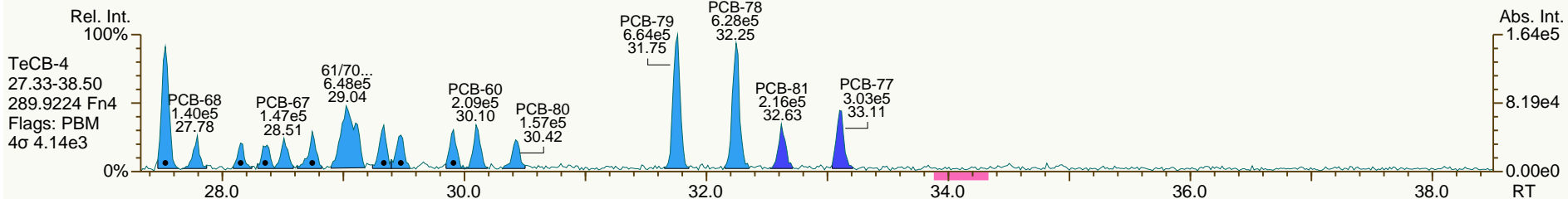
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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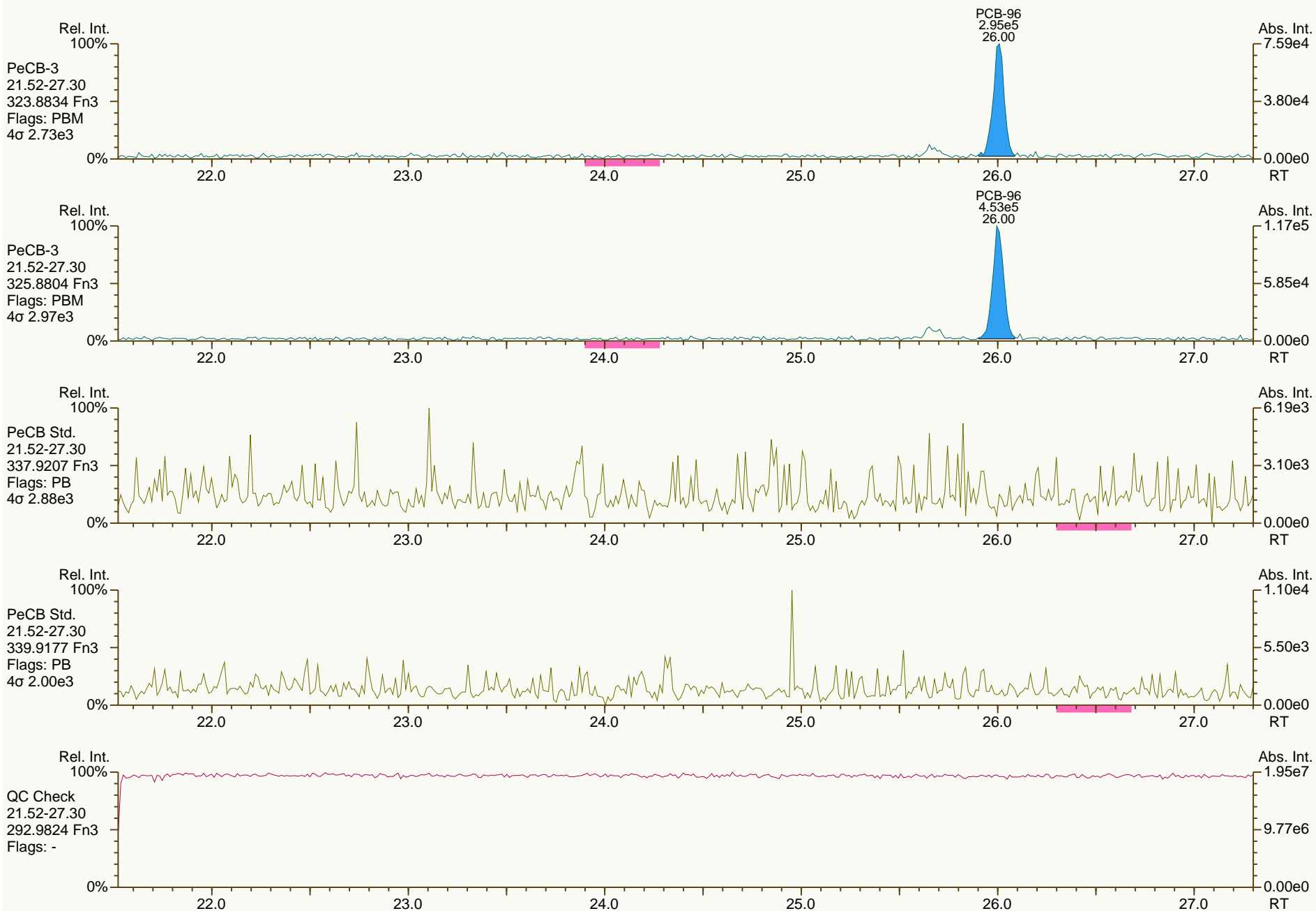
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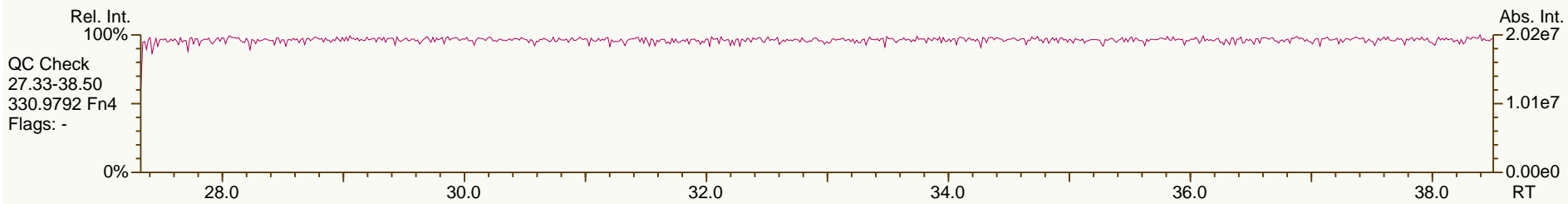
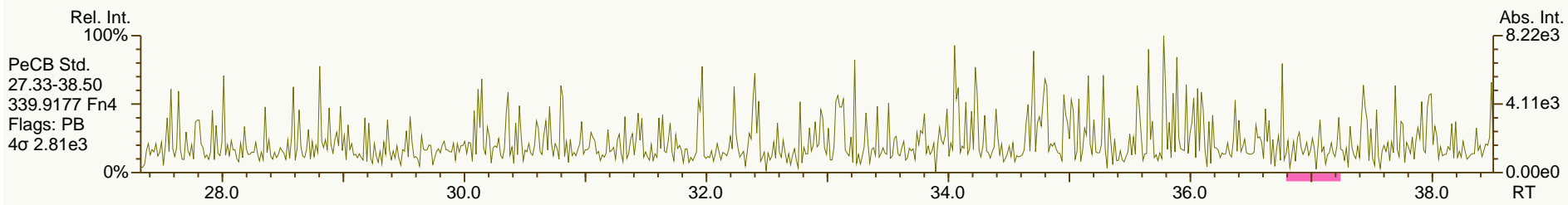
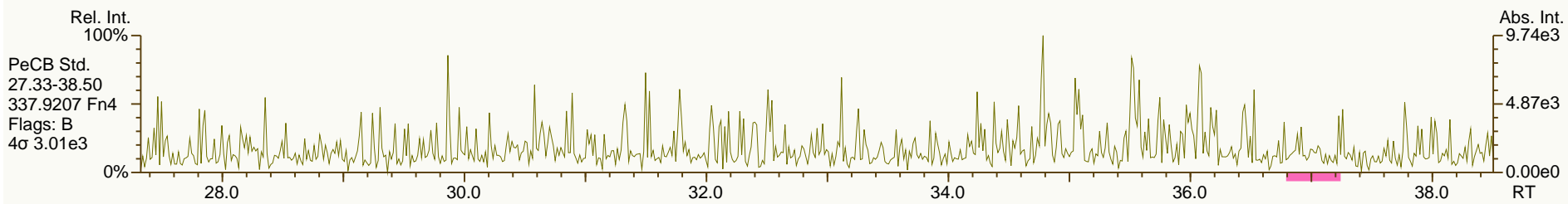
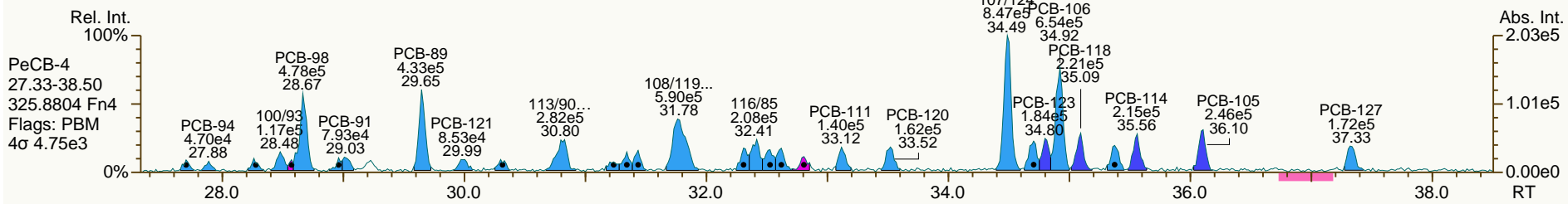
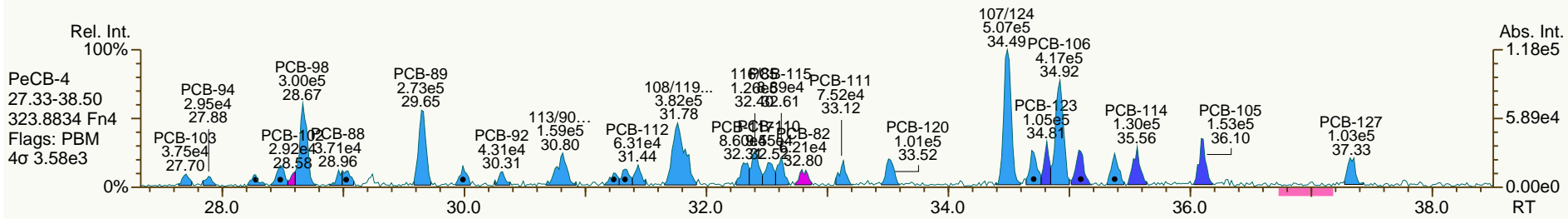
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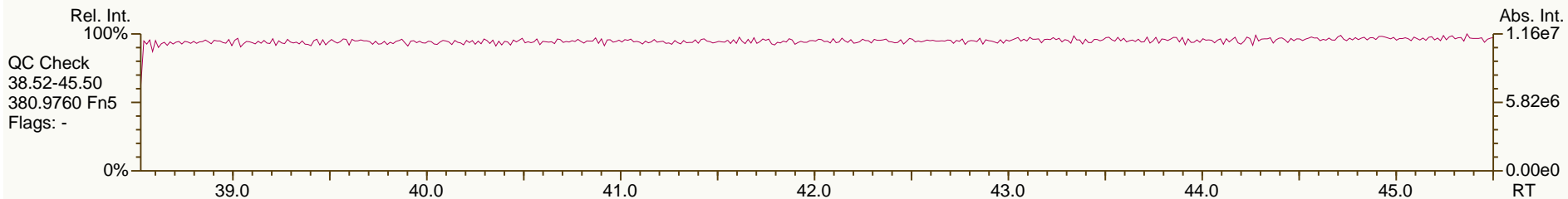
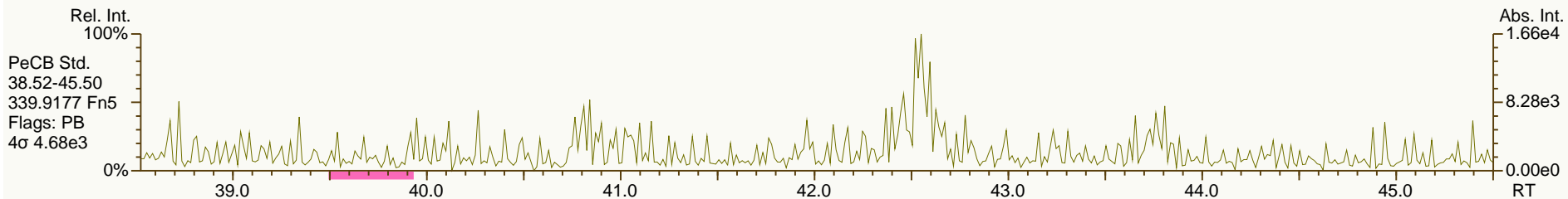
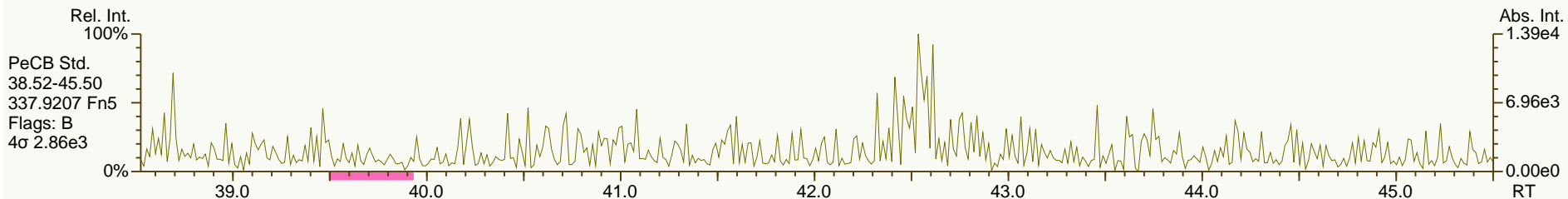
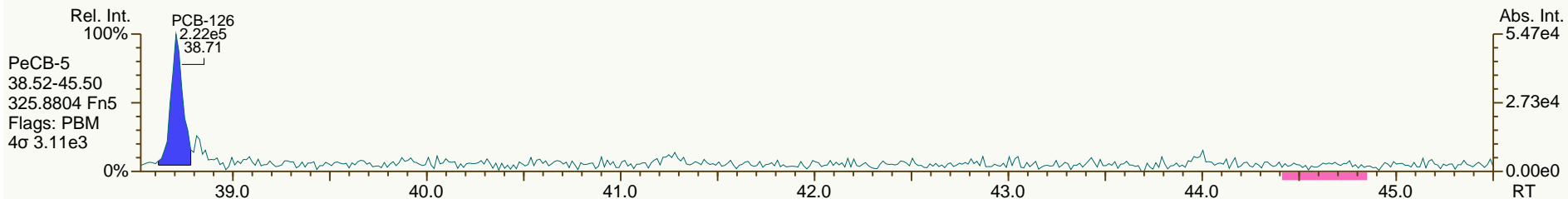
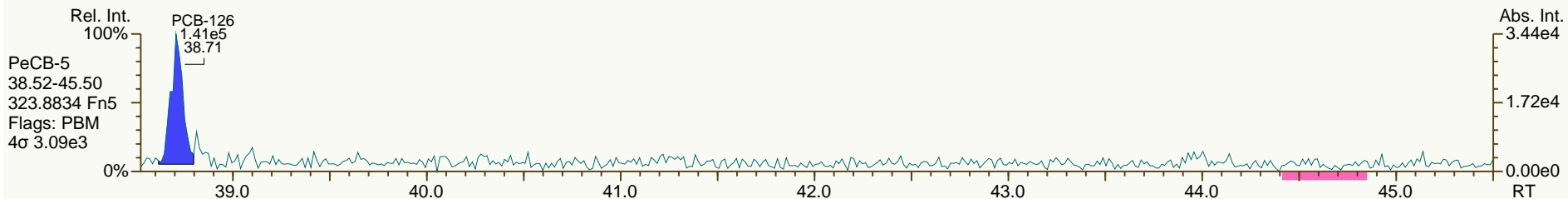
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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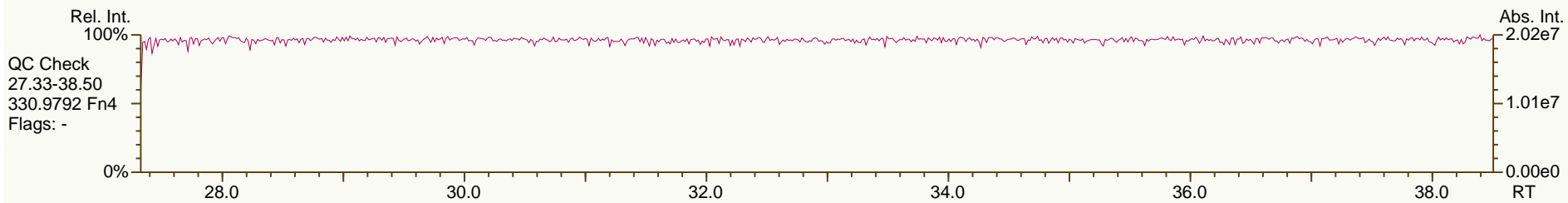
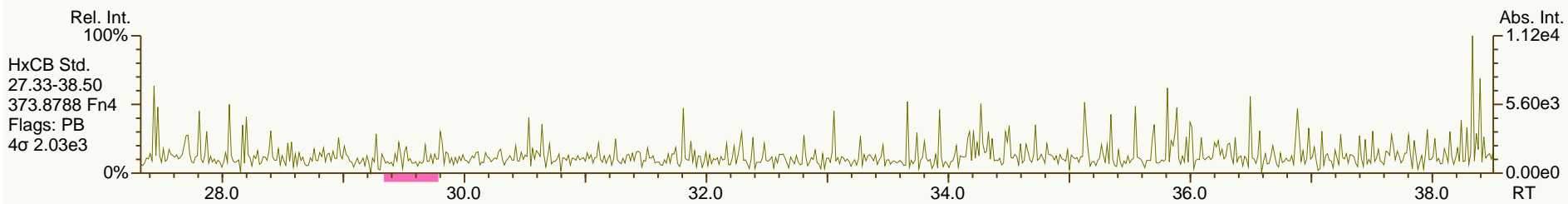
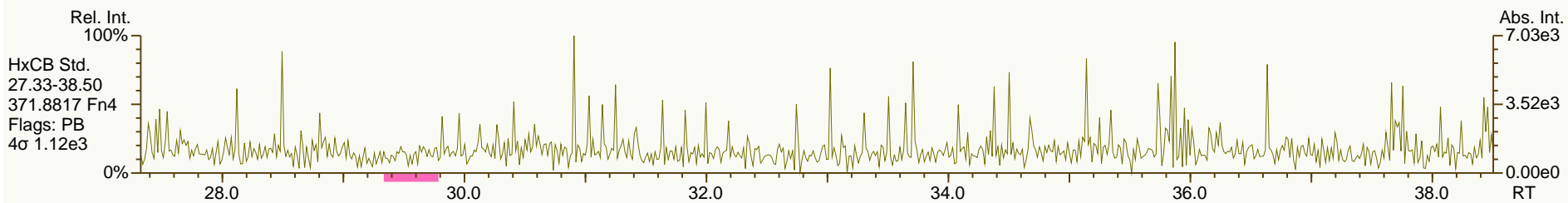
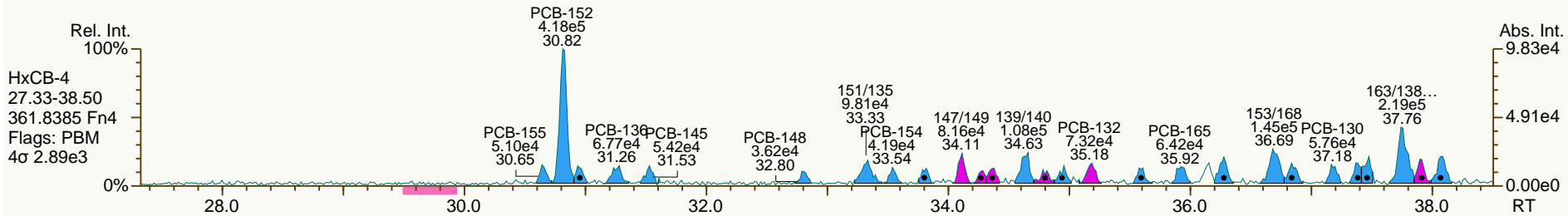
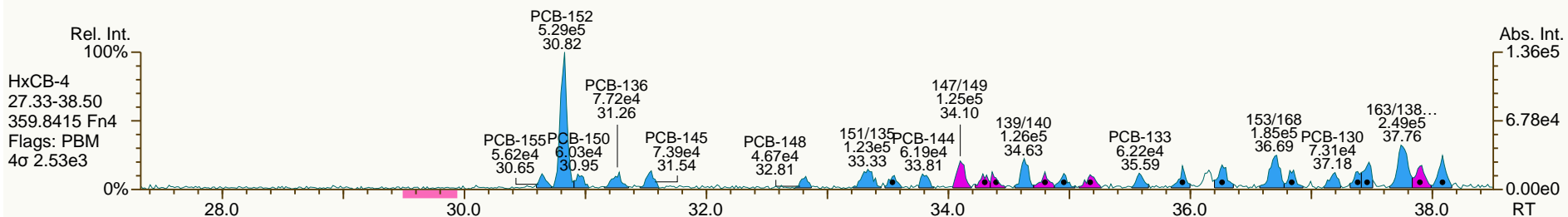




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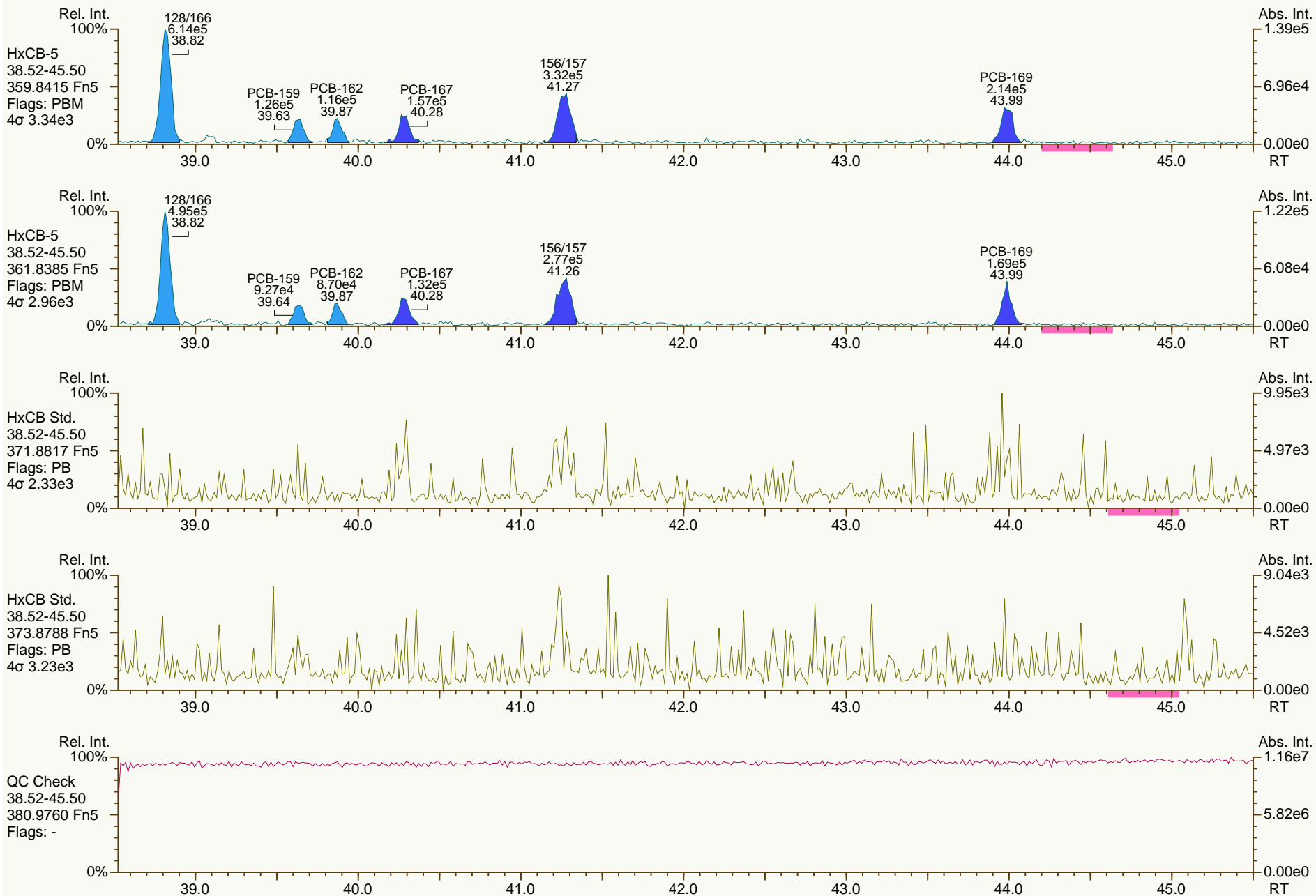
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Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

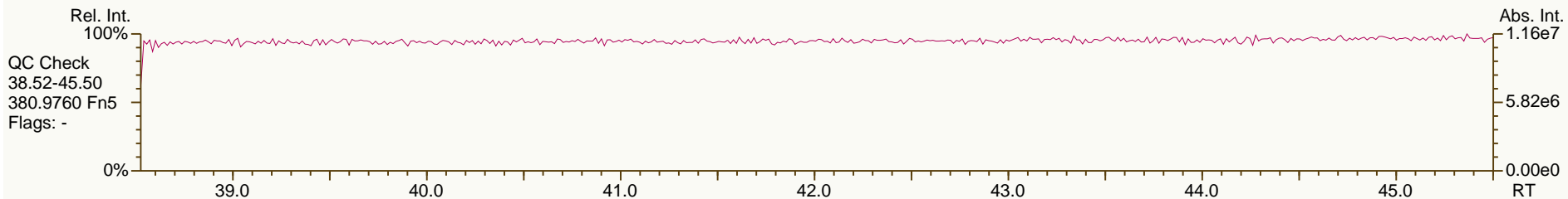
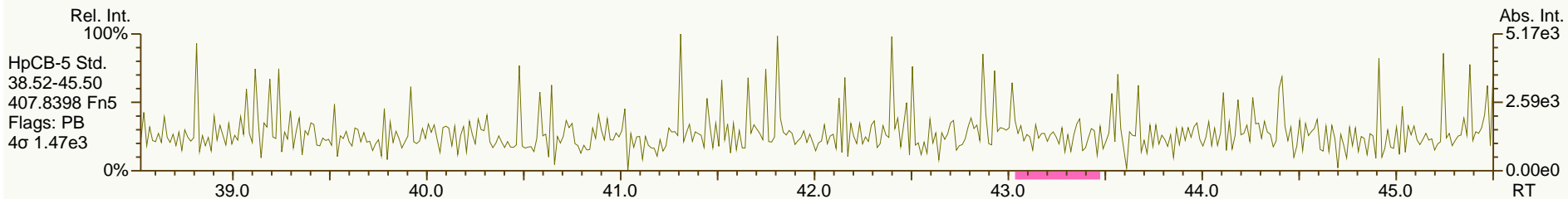
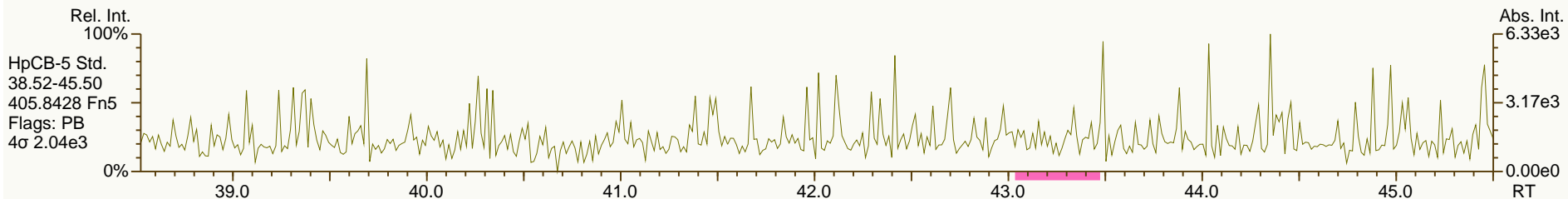
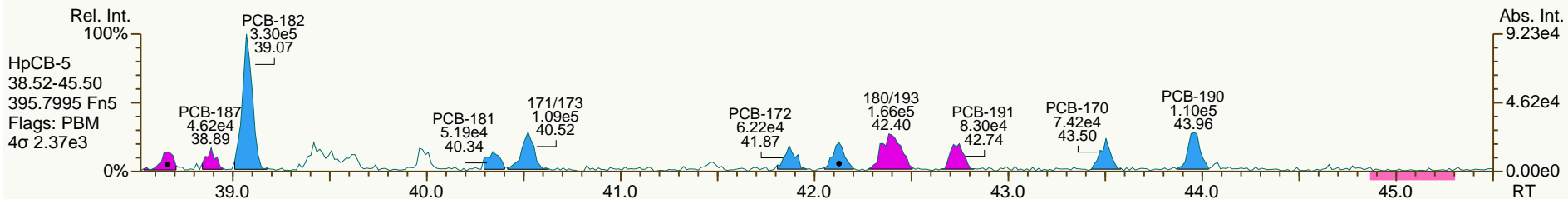
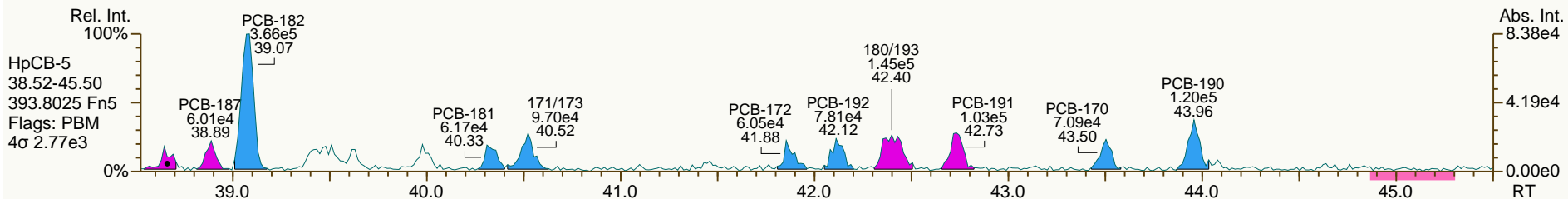
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User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

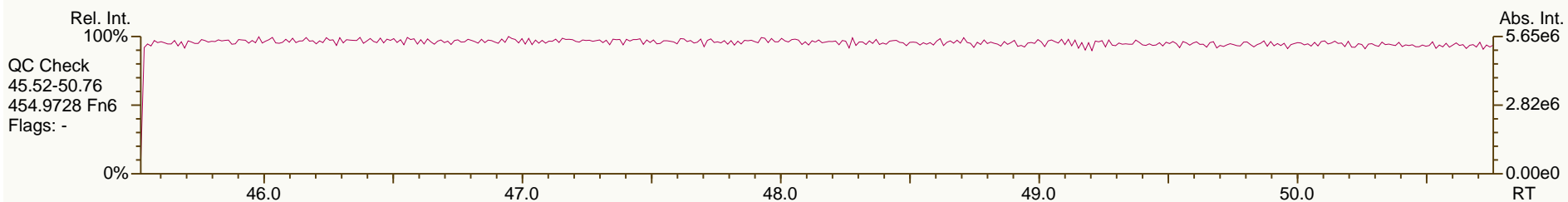
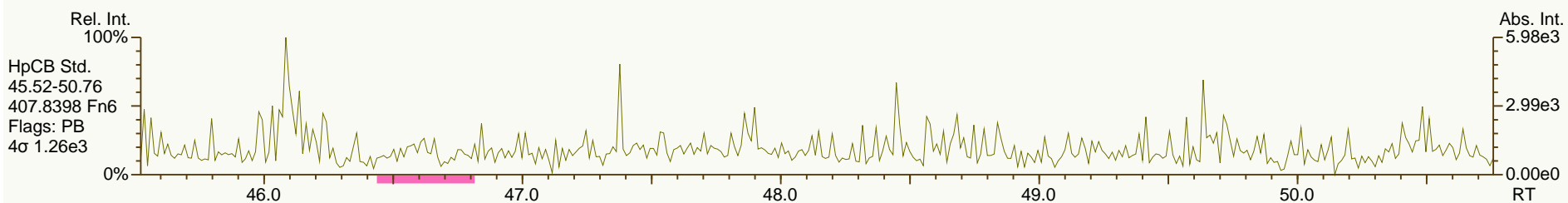
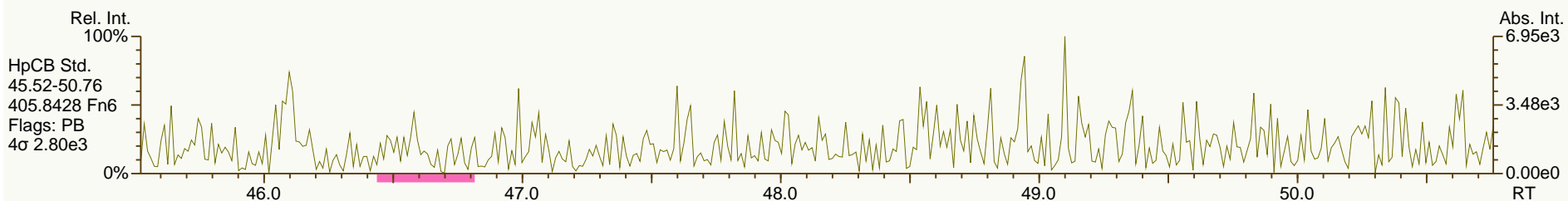
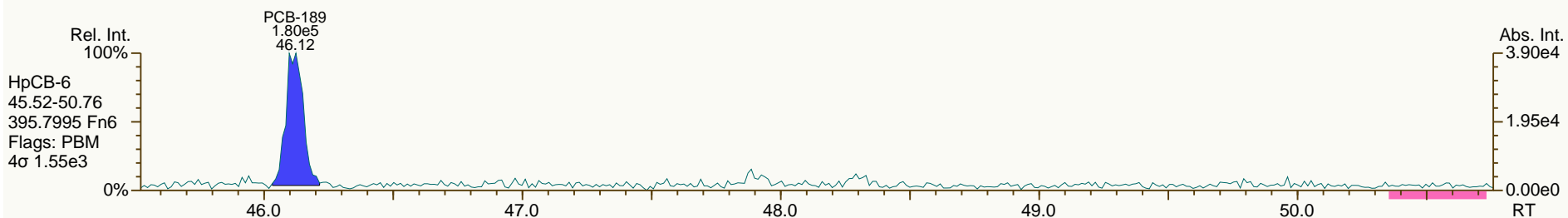
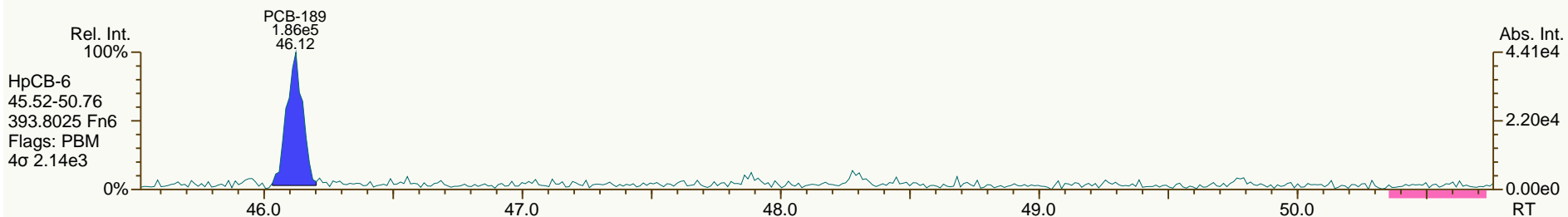
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

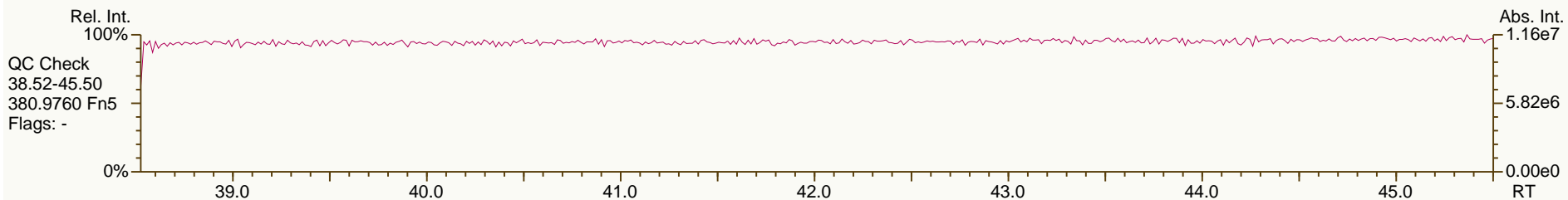
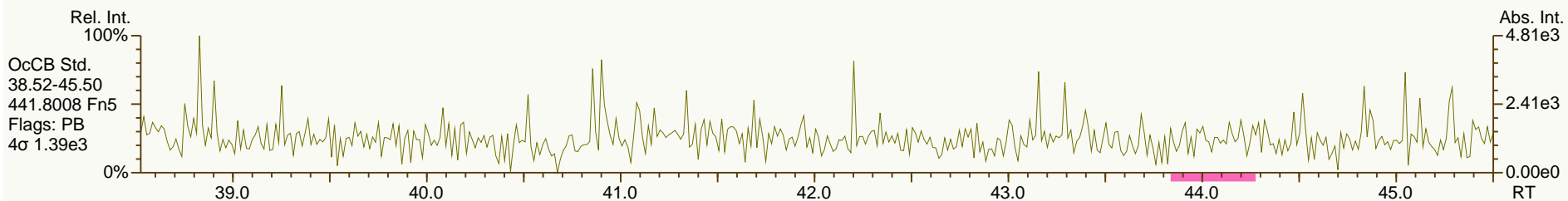
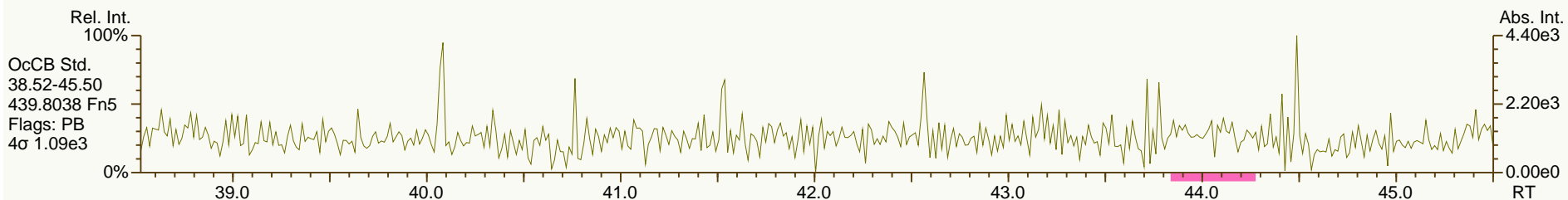
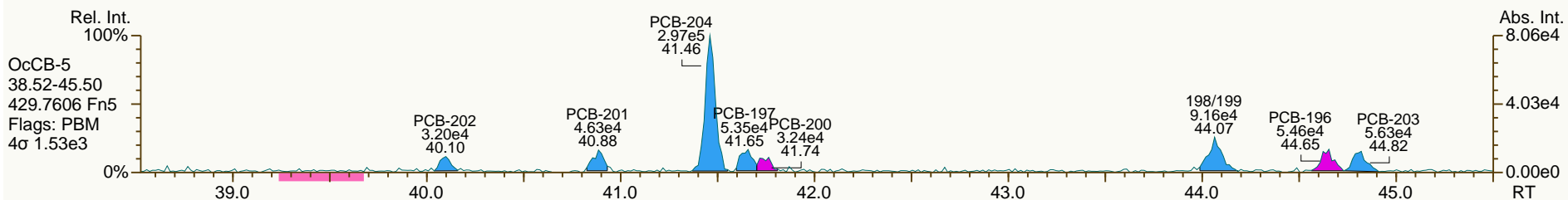
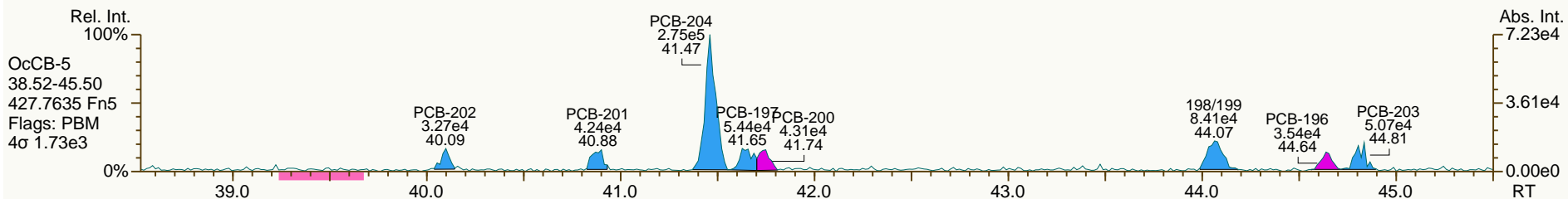
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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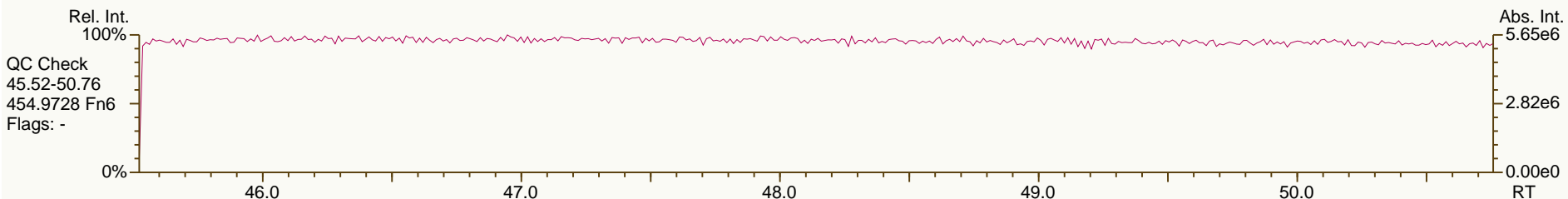
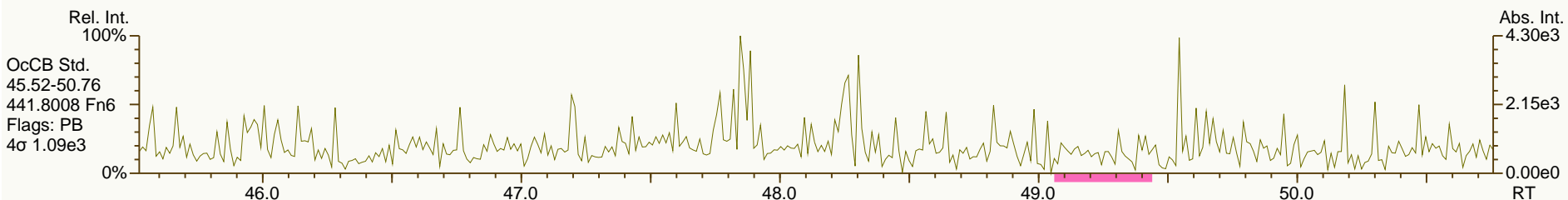
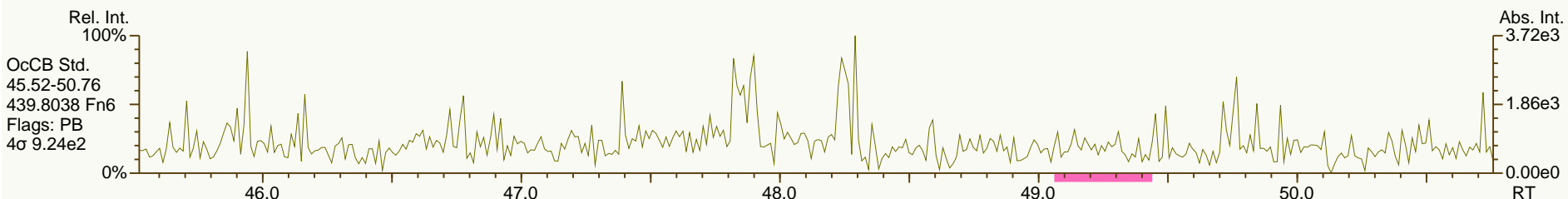
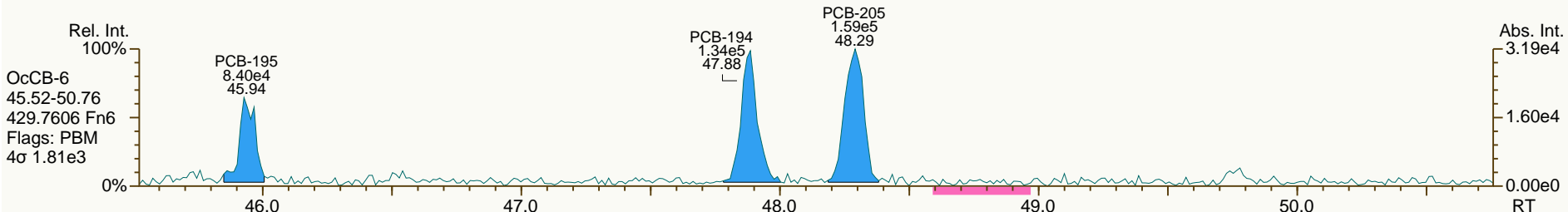
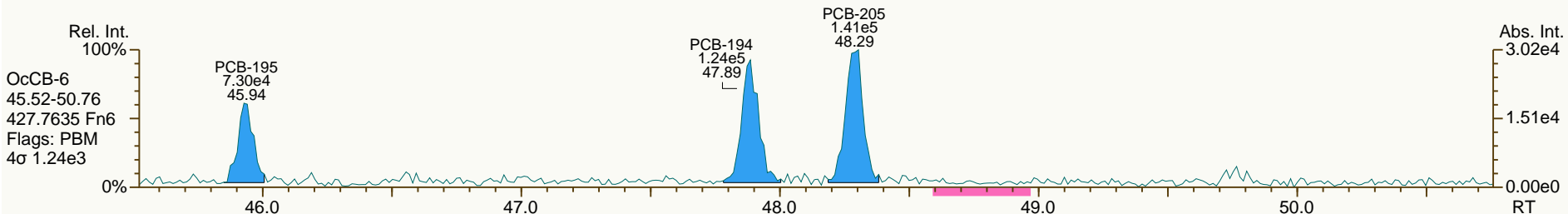
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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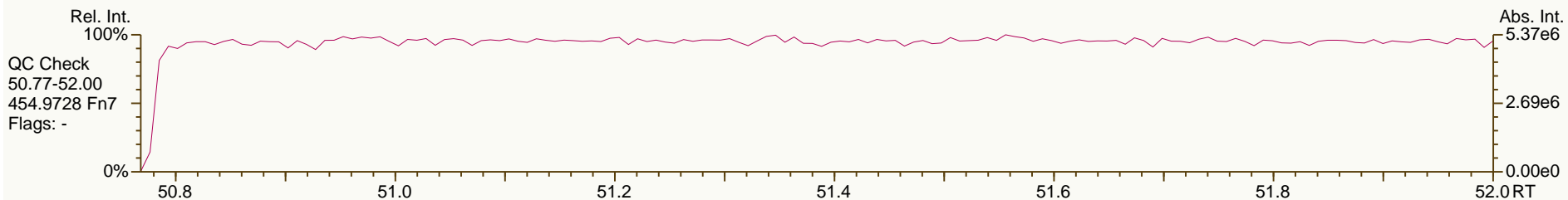
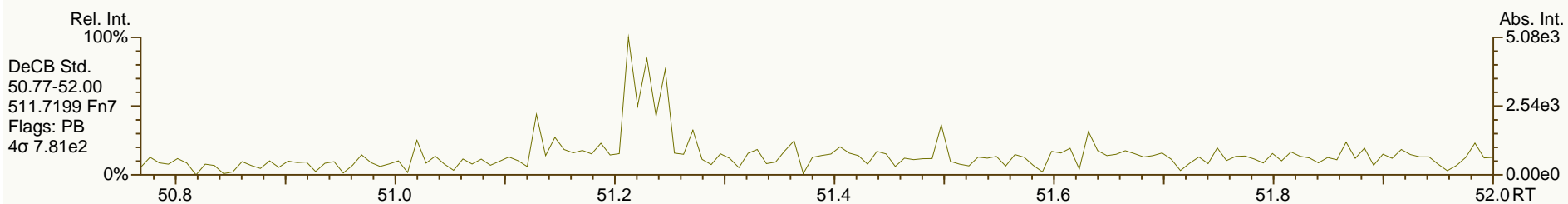
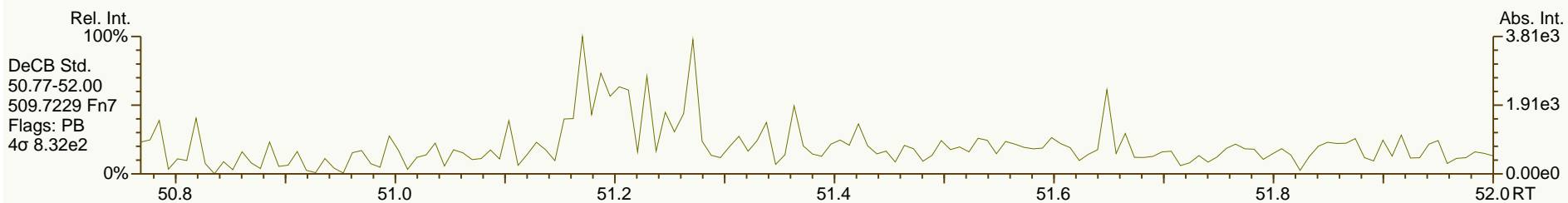
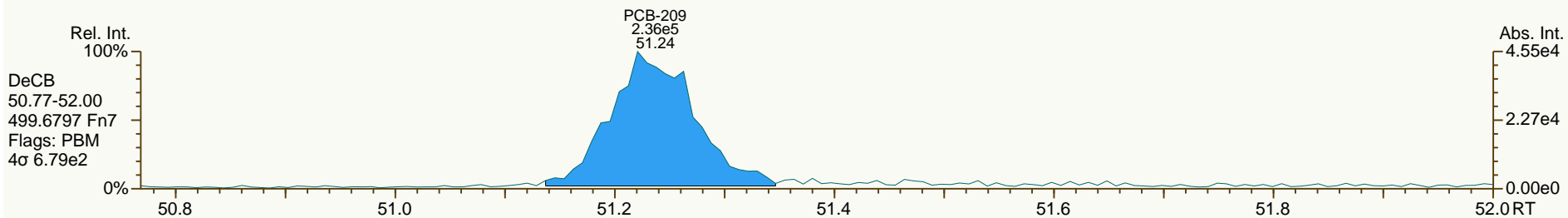
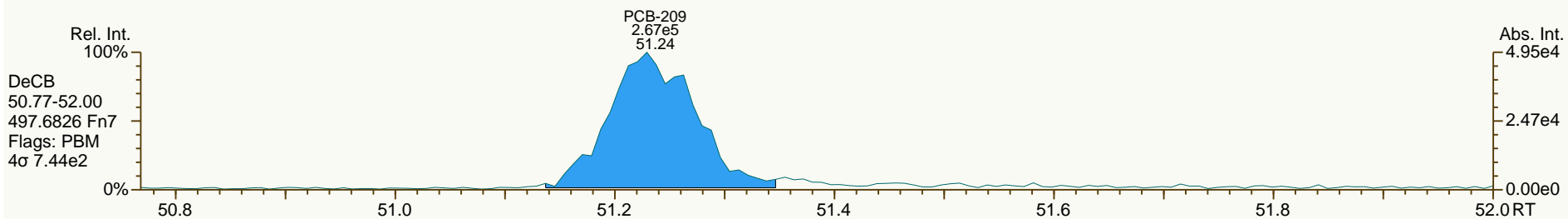




SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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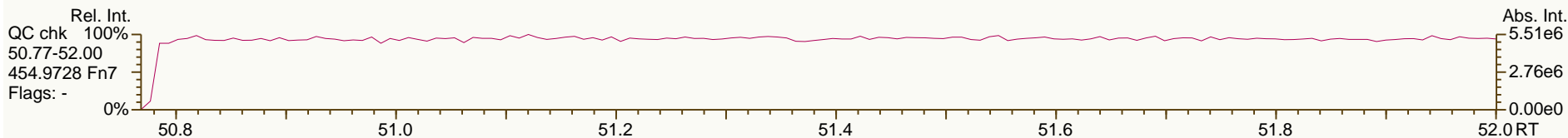
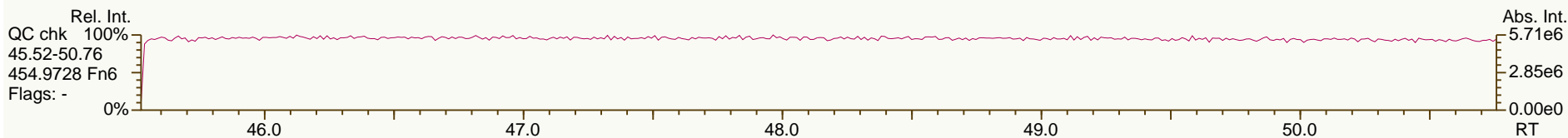
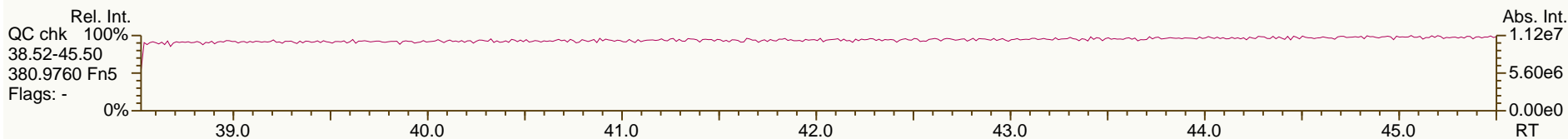
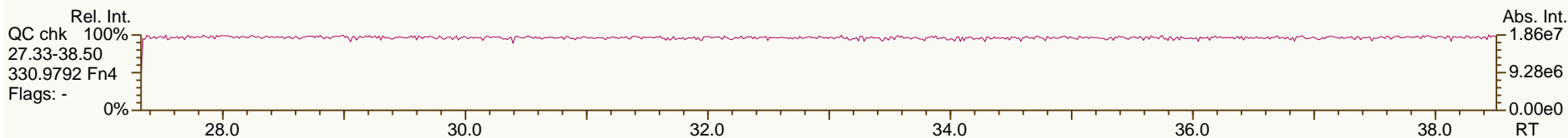
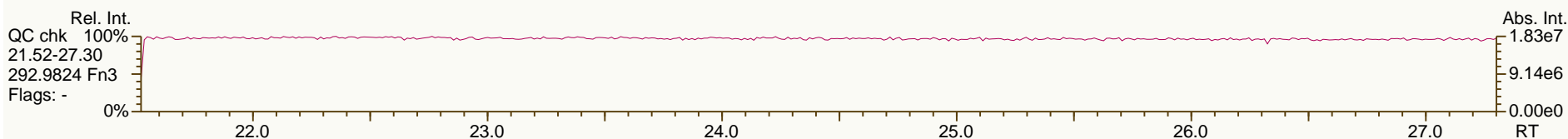
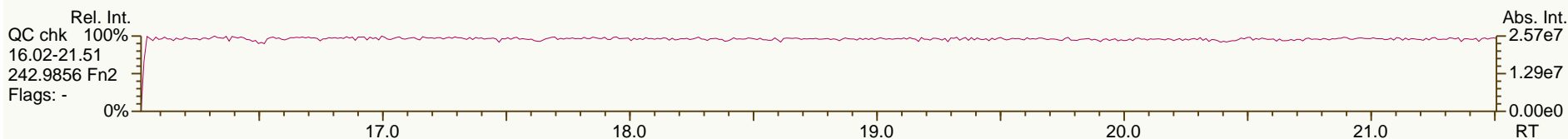
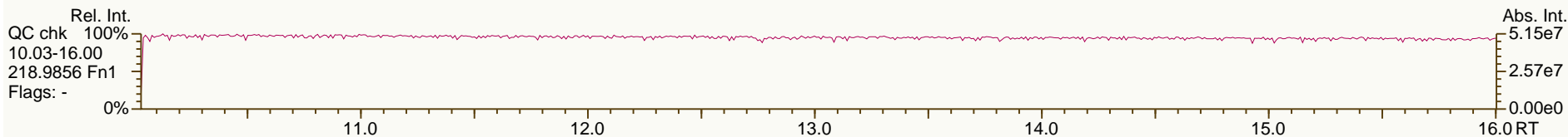
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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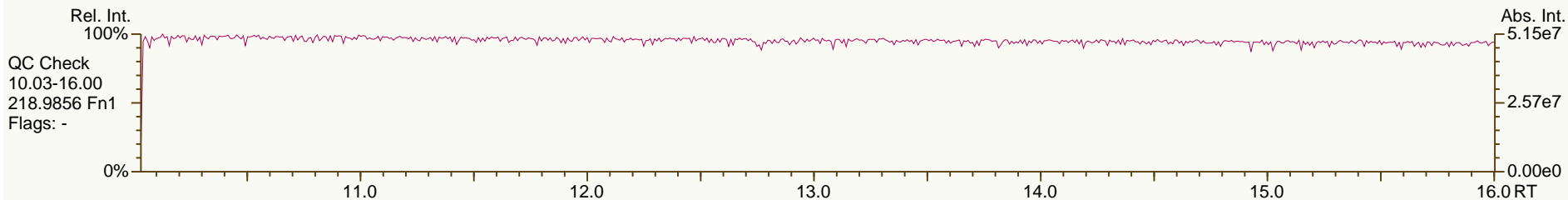
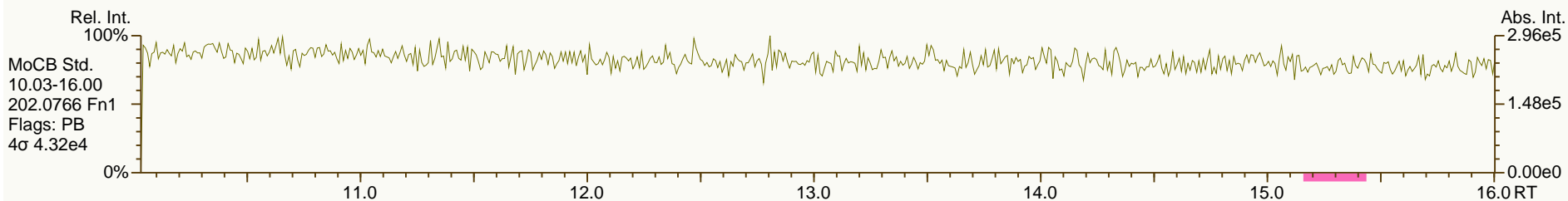
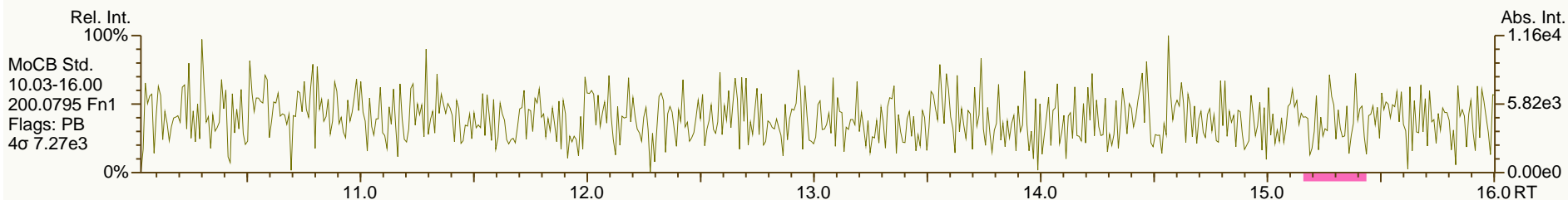
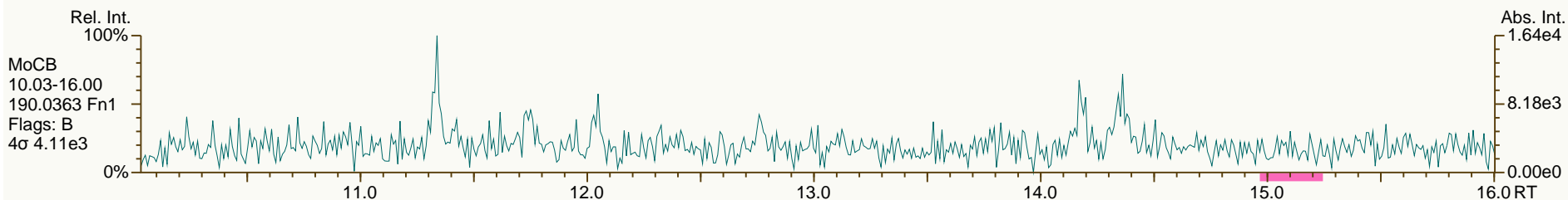
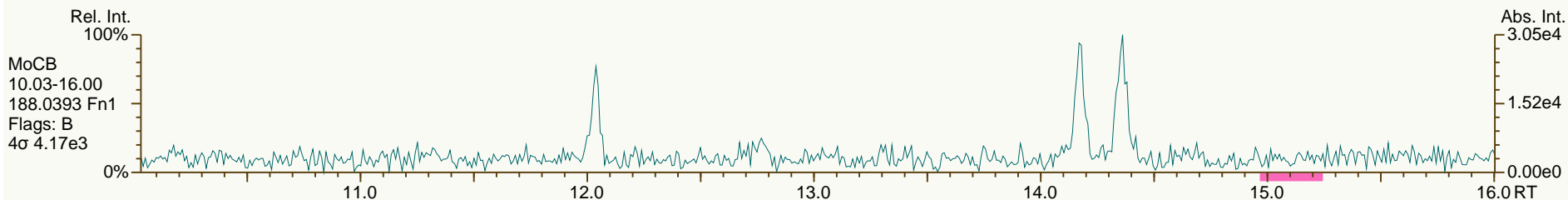
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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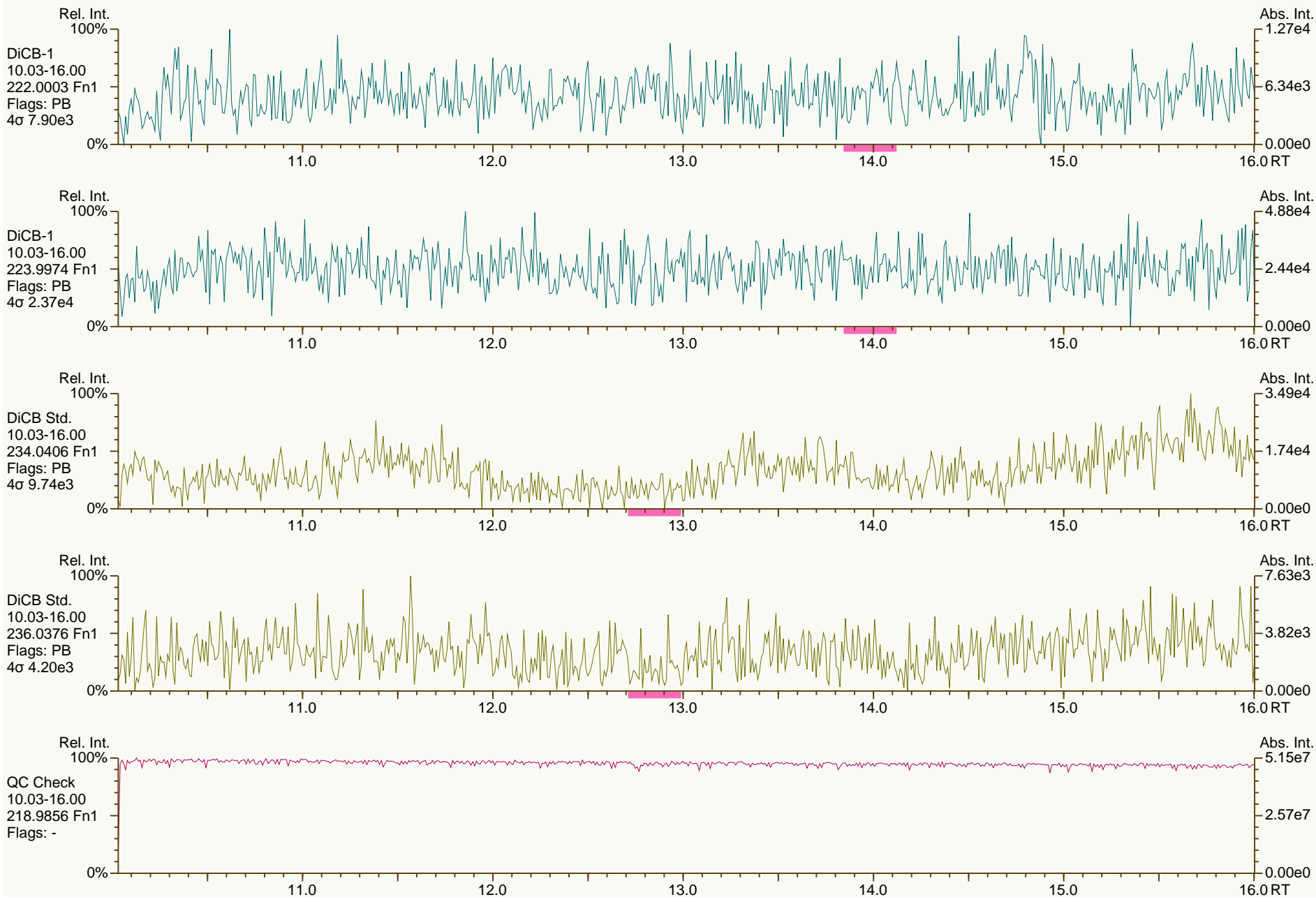
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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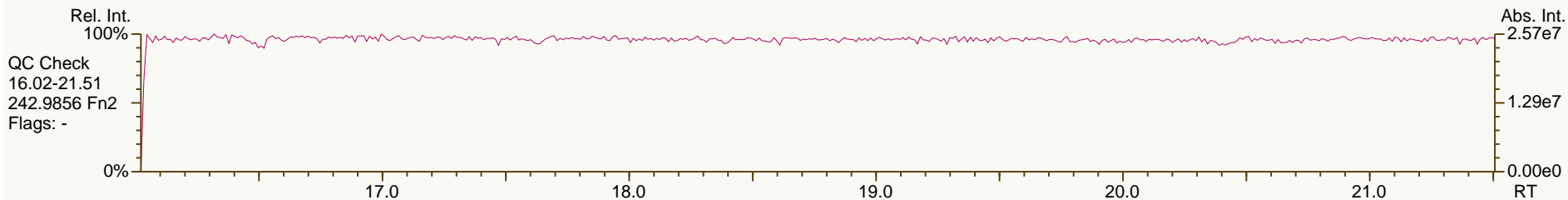
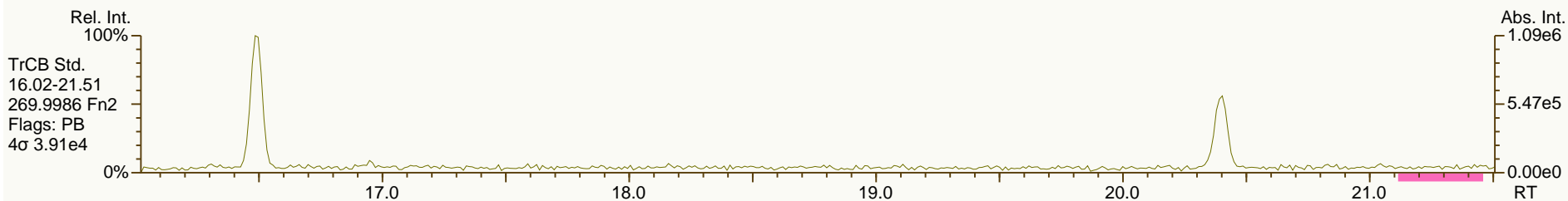
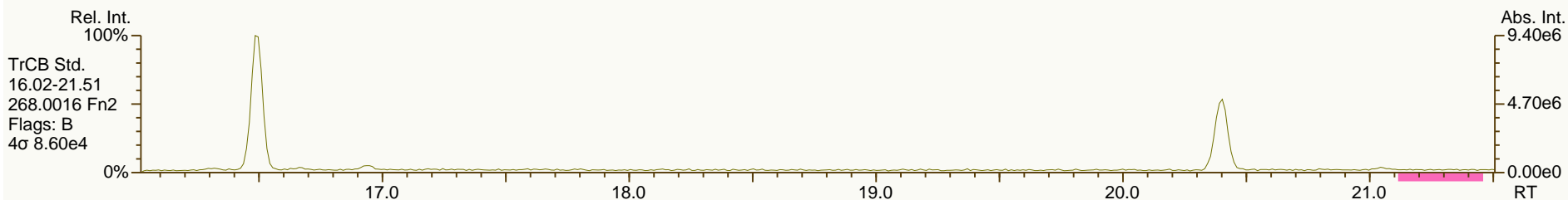
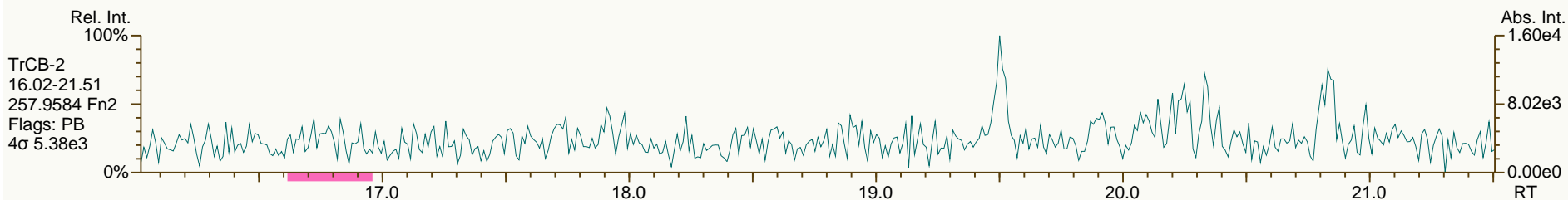
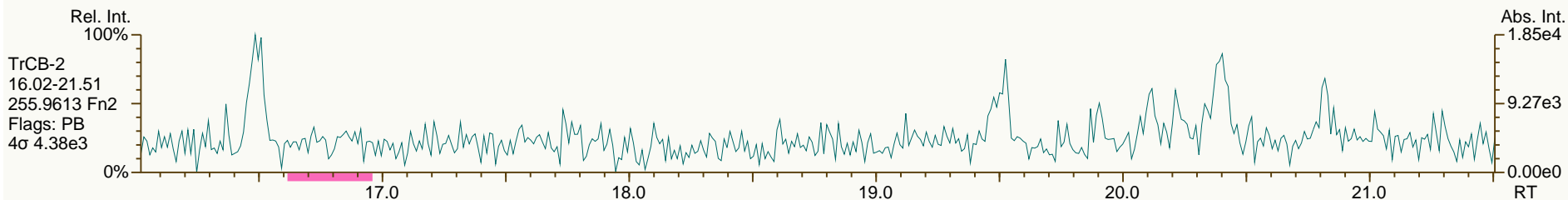
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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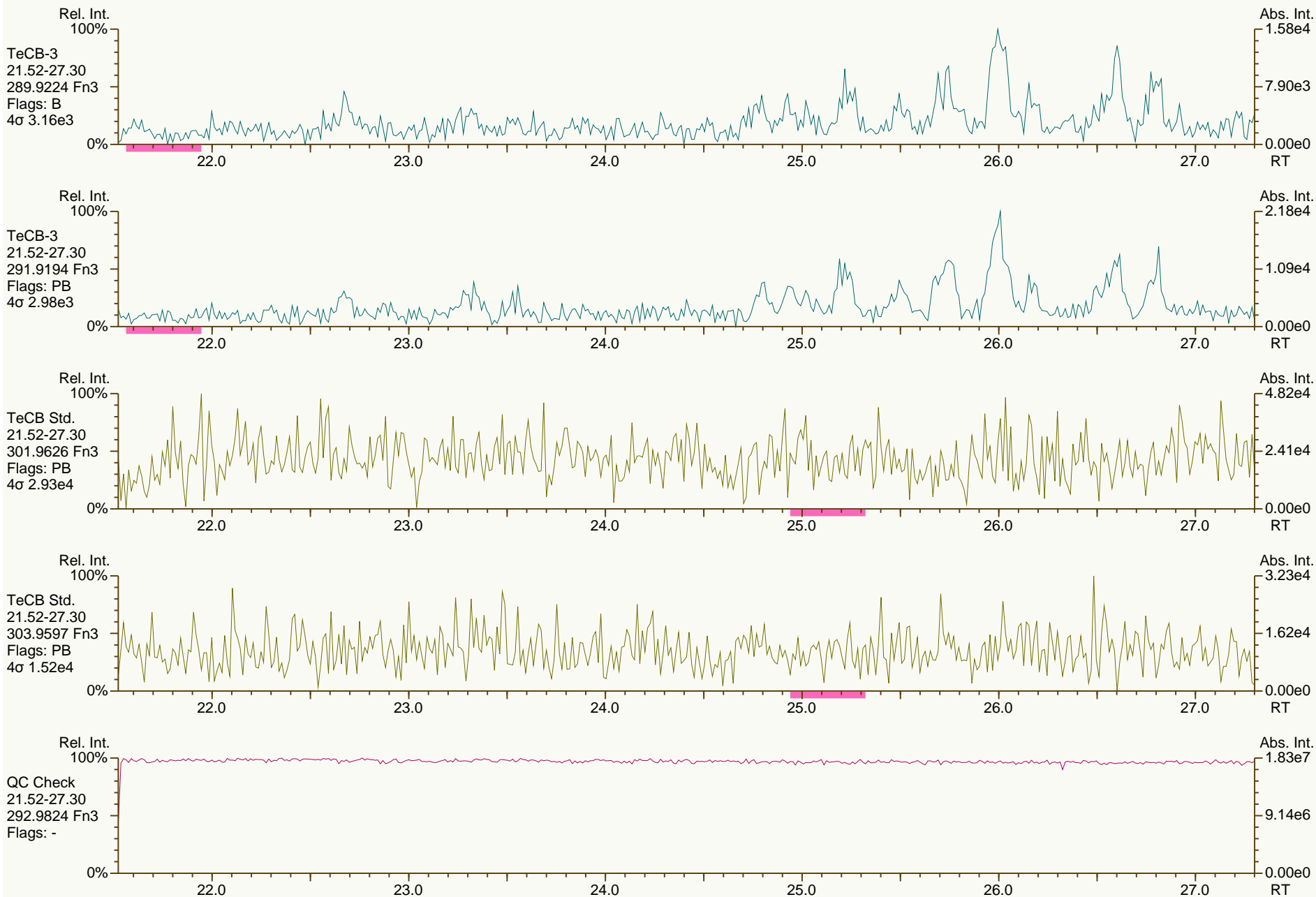




SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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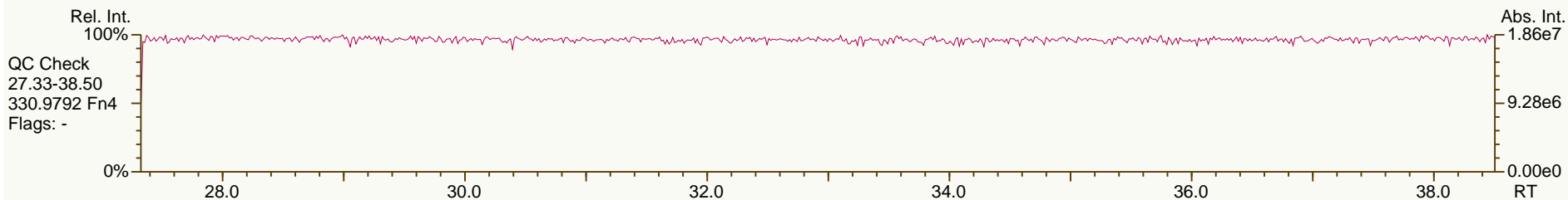
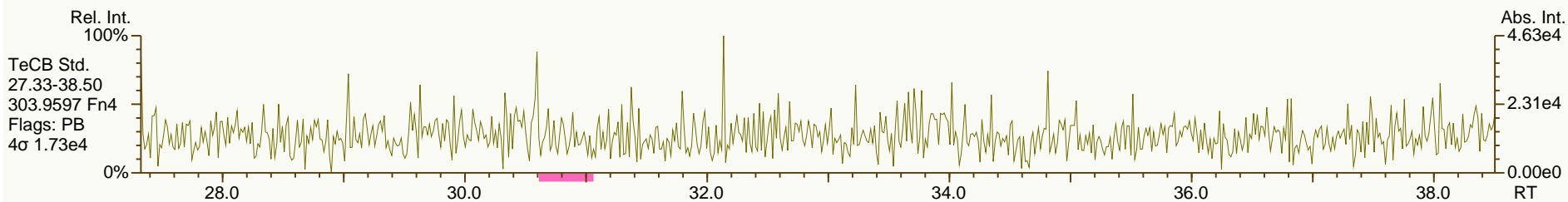
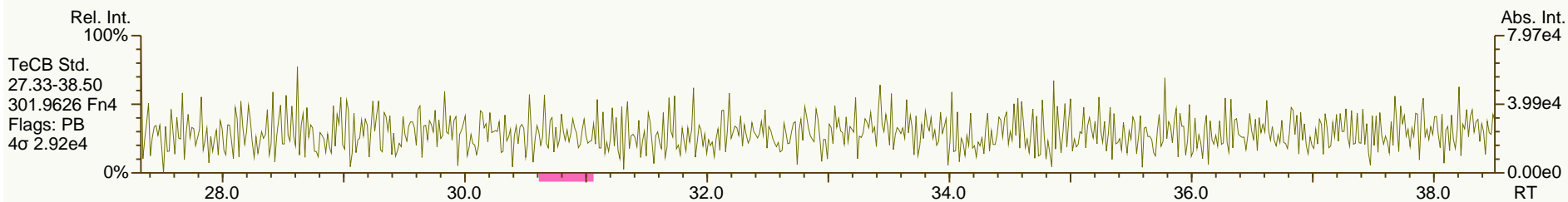
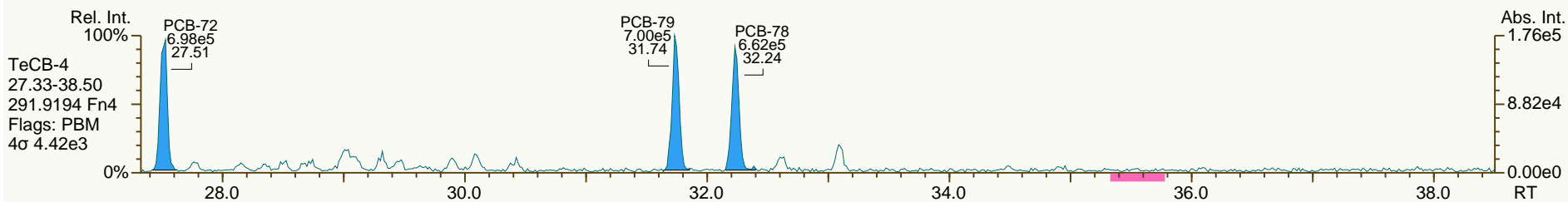
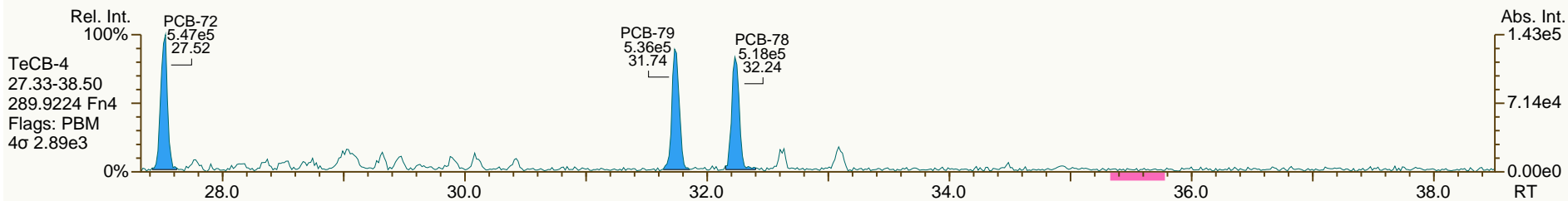
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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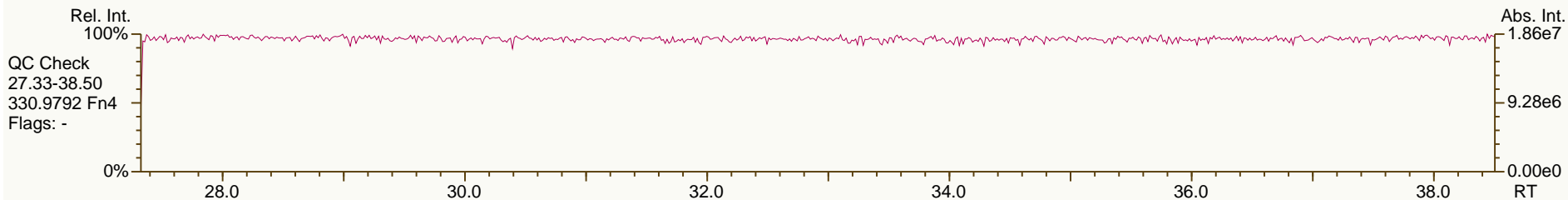
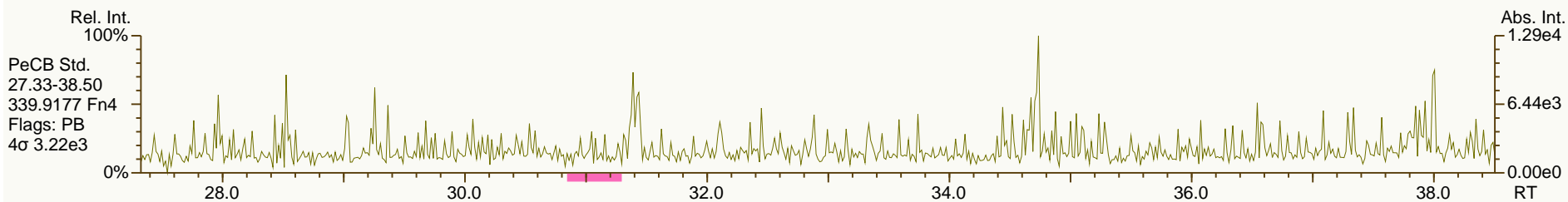
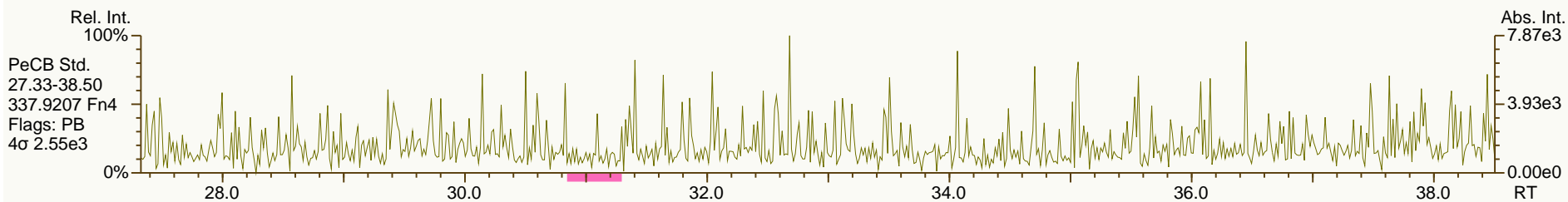
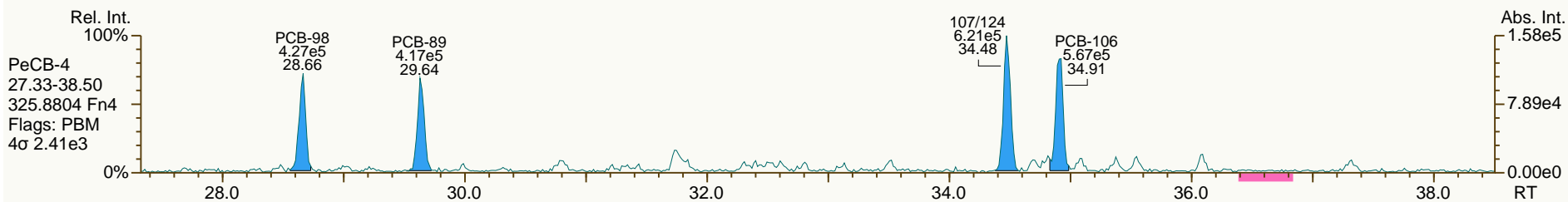
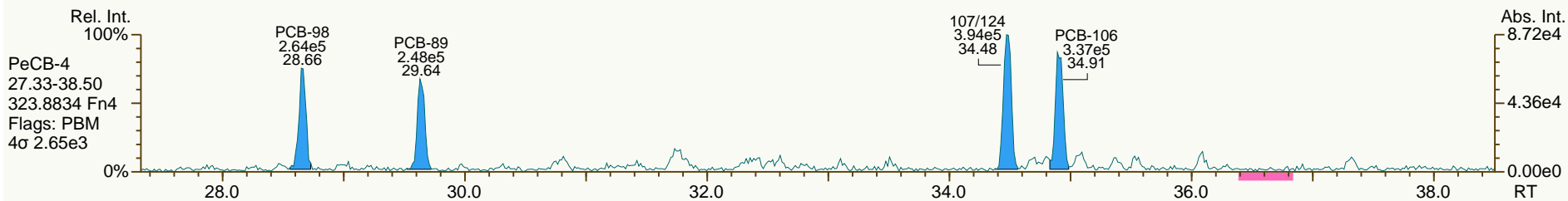
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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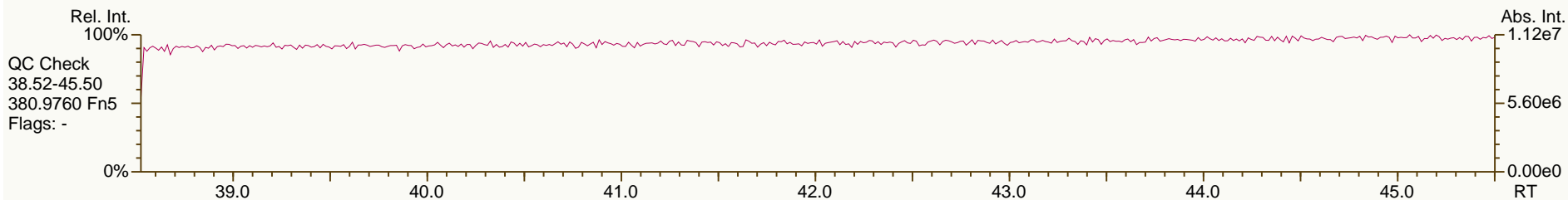
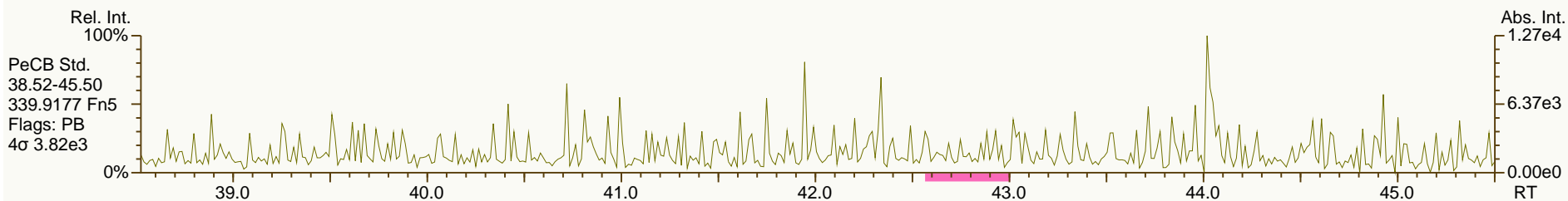
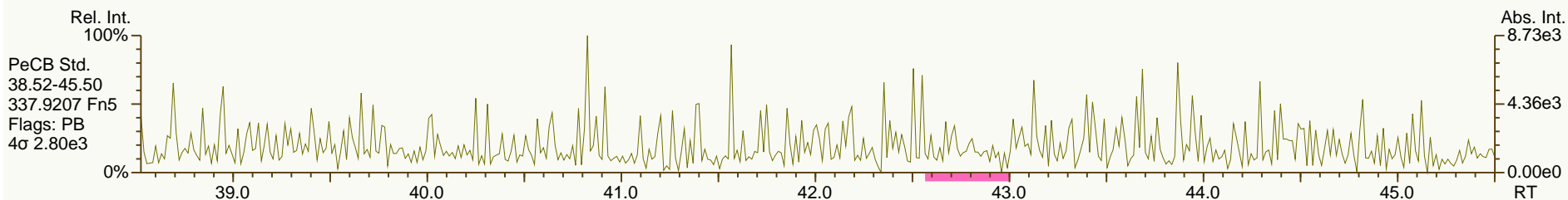
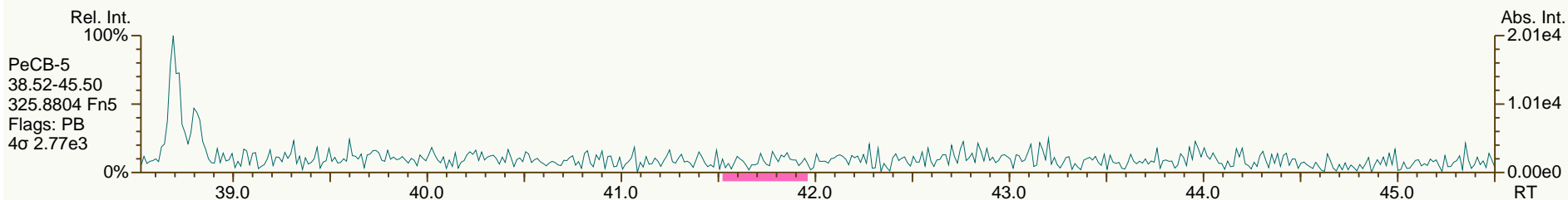
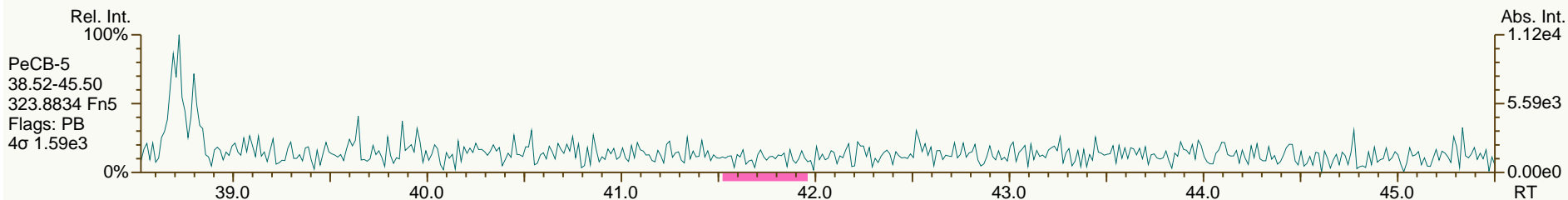
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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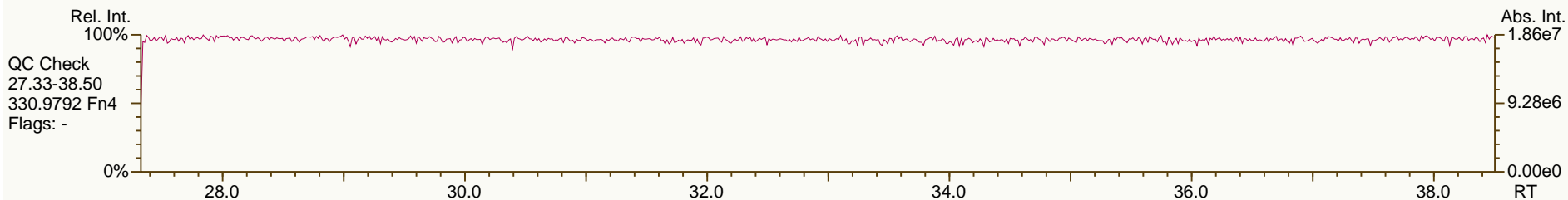
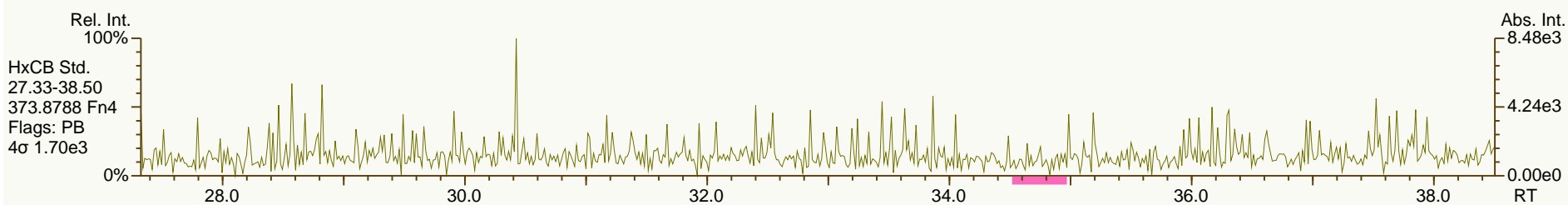
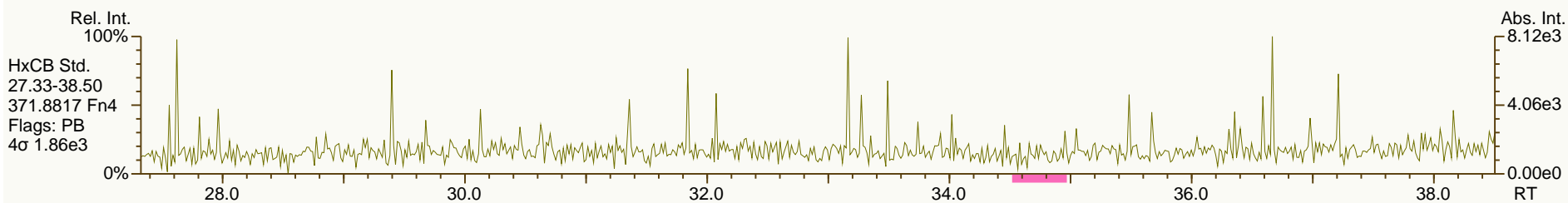
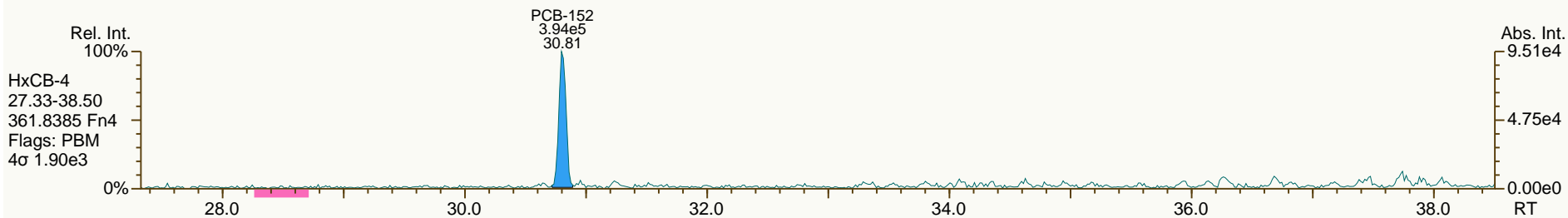
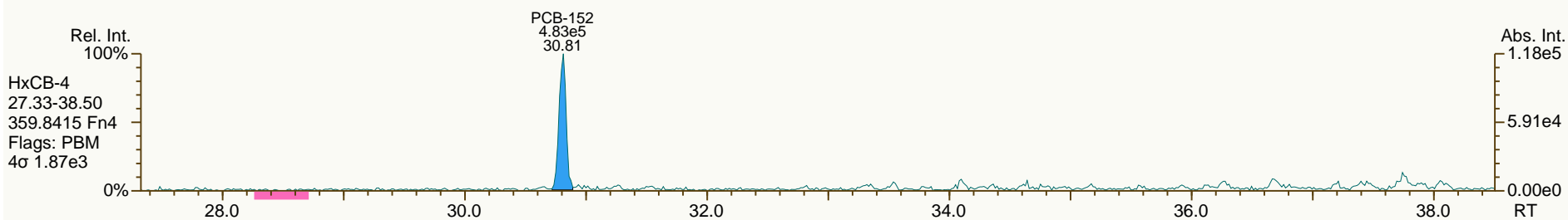
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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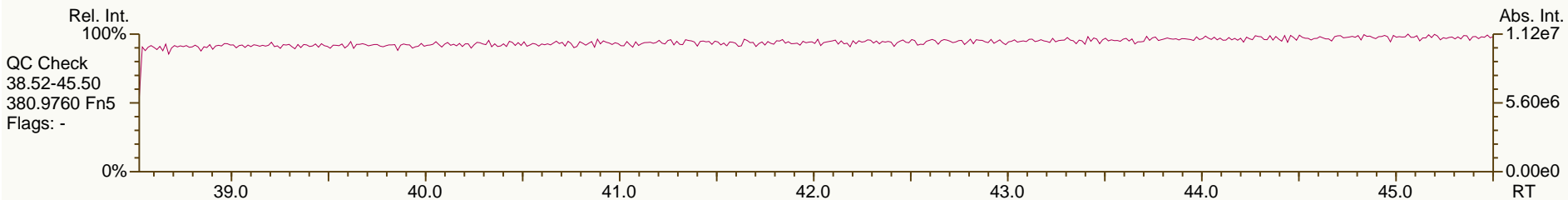
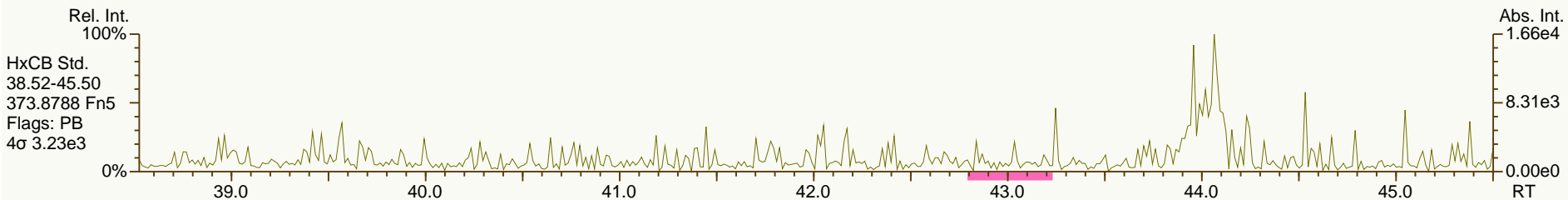
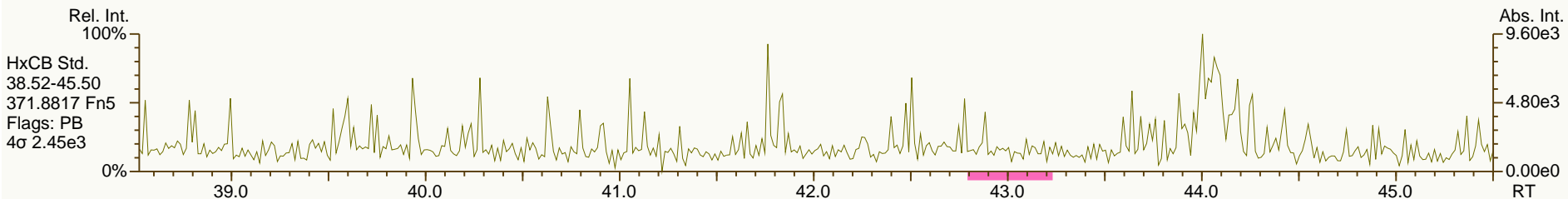
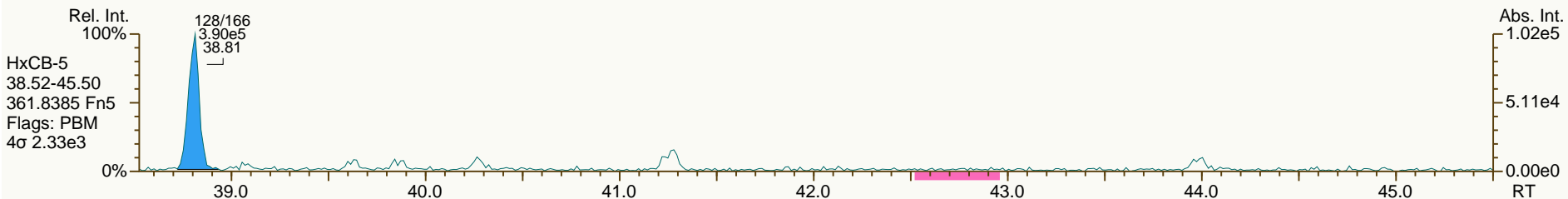
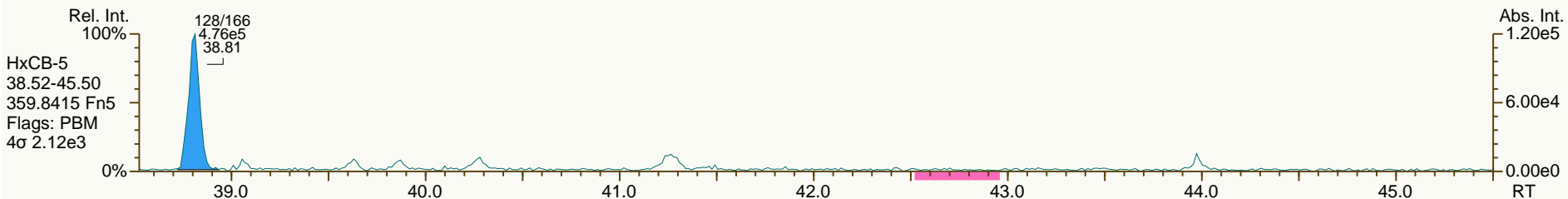
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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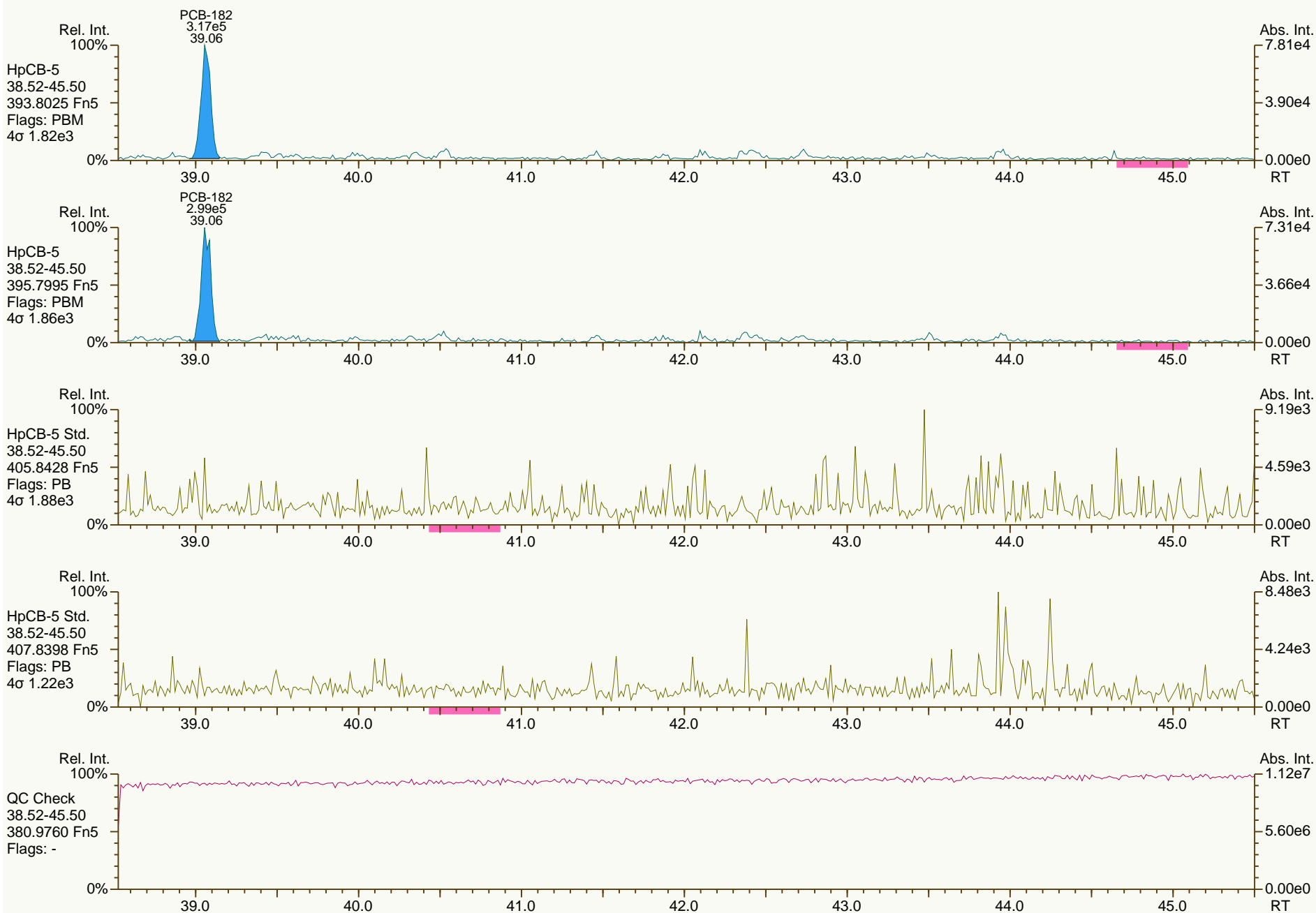




SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

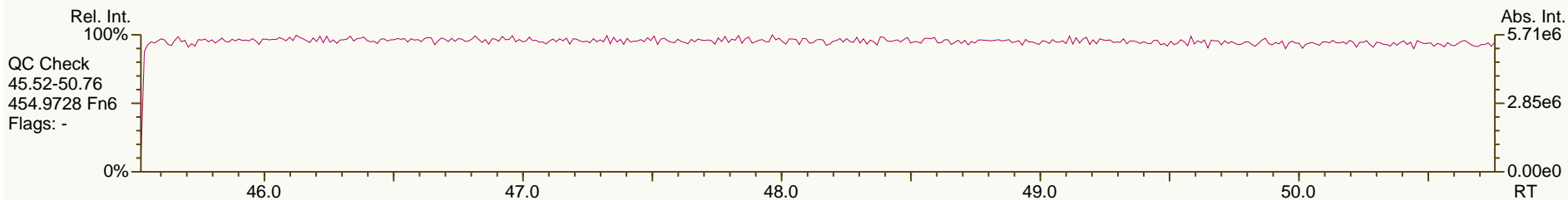
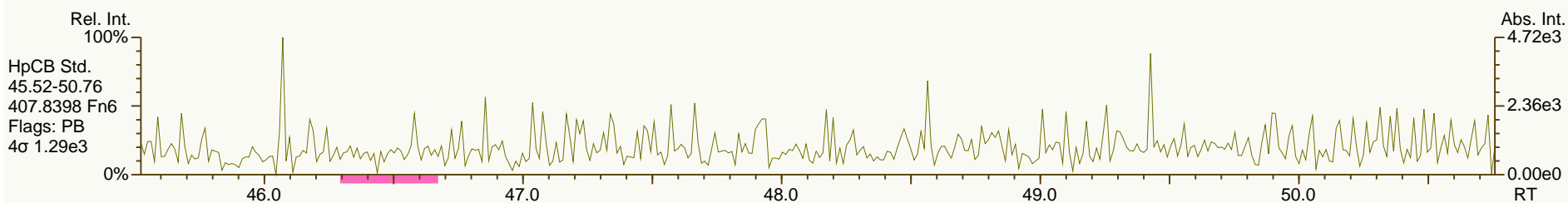
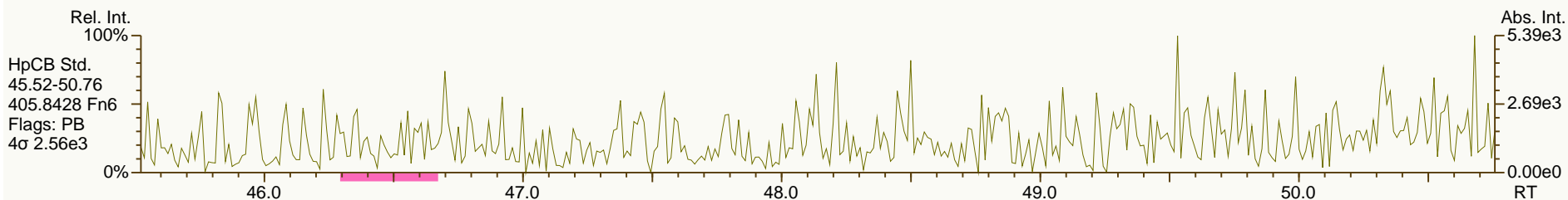
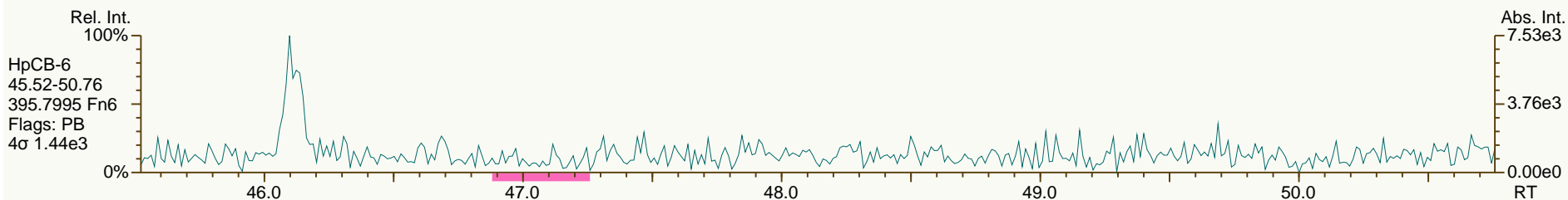
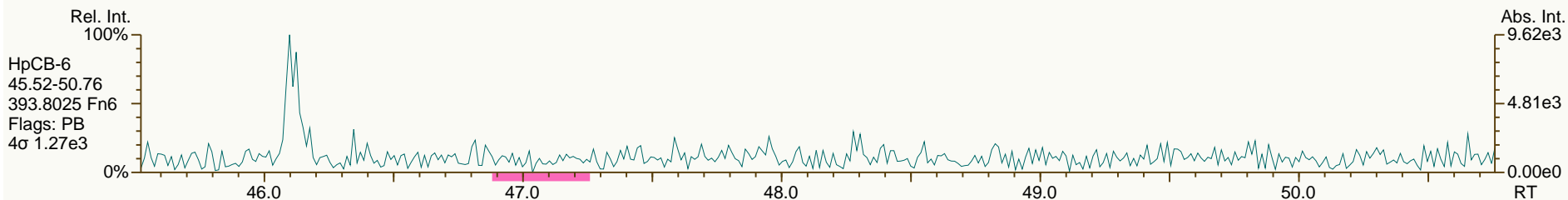
Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

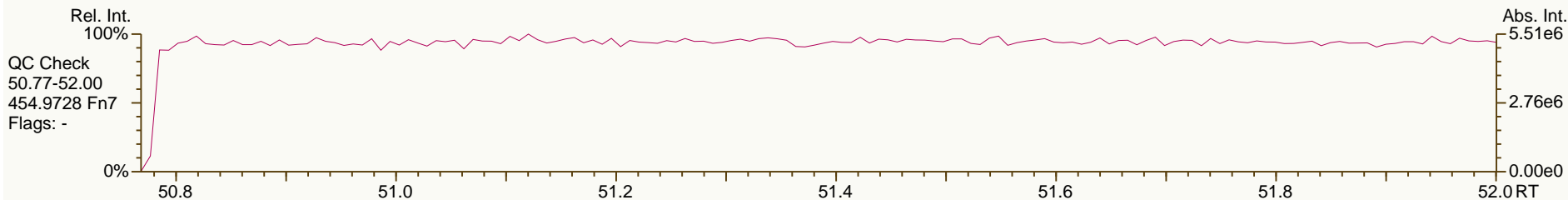
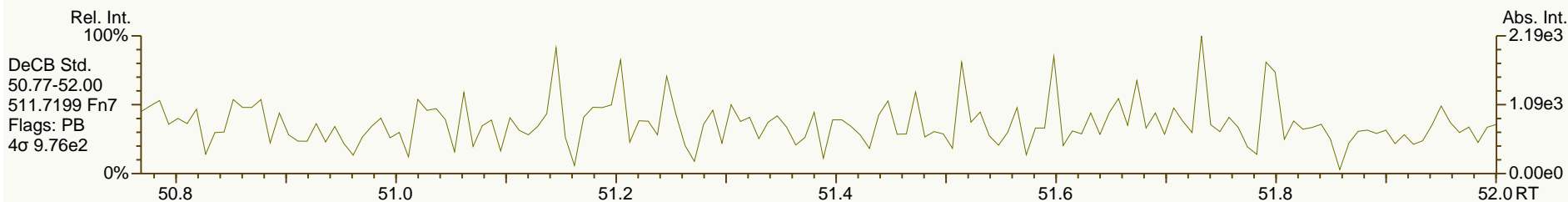
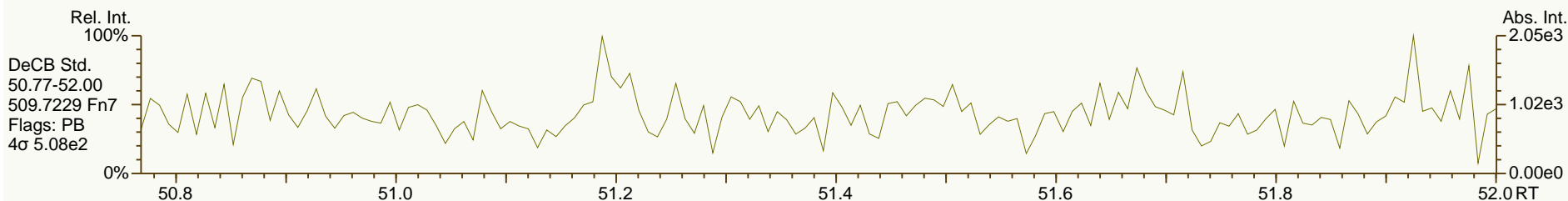
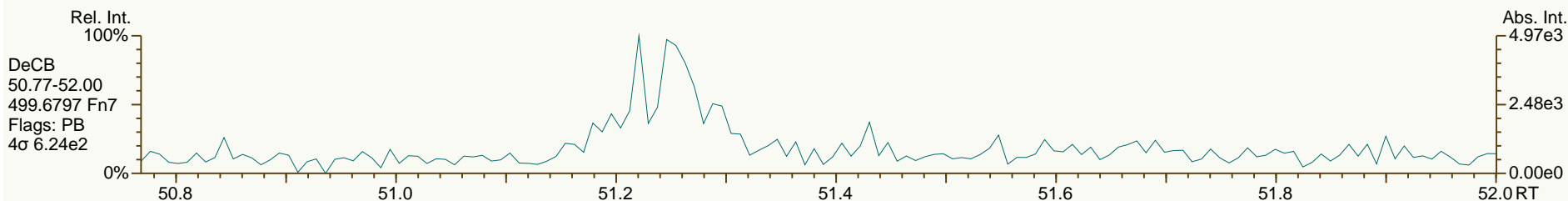
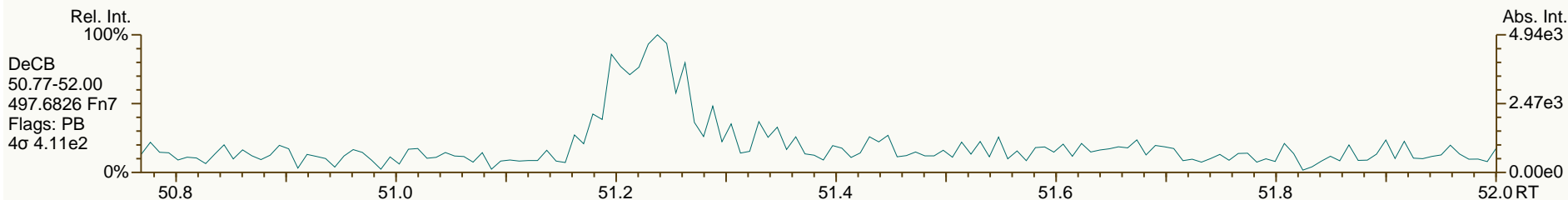
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
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## Experiment Calibration Report

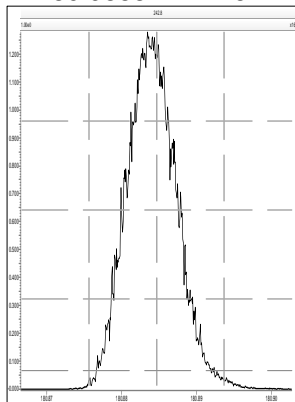
MassLynx 4.1 SCN 881

Page 1 of 1

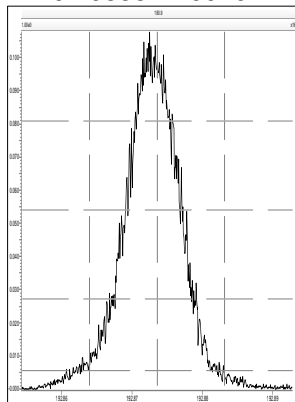
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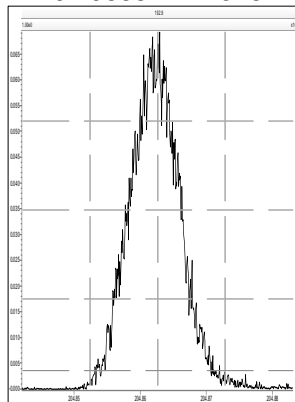
M 180.9888 R 11467



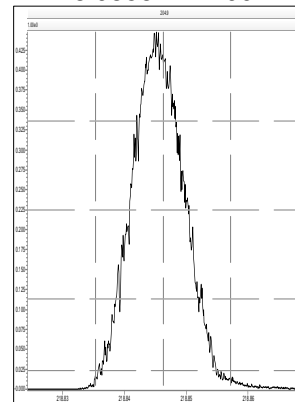
M 192.9888 R 9920



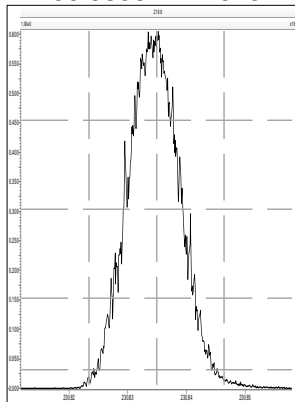
M 204.9888 R 12316



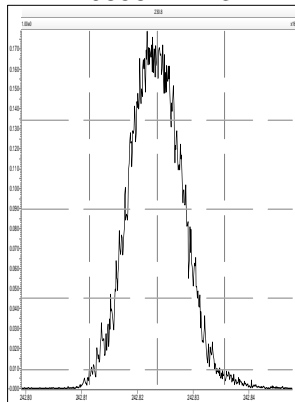
M 218.9856 R 11902



M 230.9856 R 11523



M 242.9856 R 11311



## Experiment Calibration Report

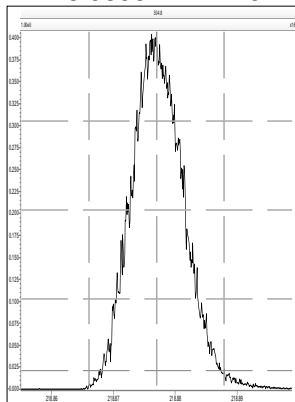
MassLynx 4.1 SCN 881

Page 1 of 1

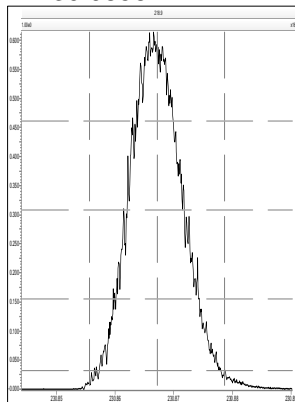
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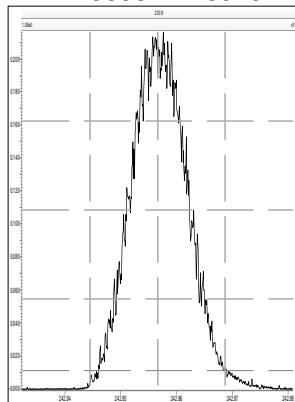
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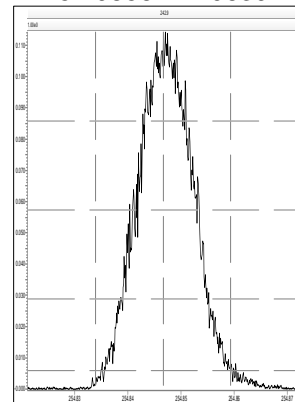
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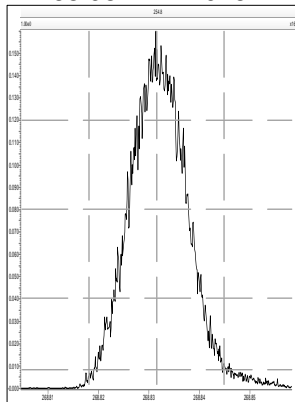
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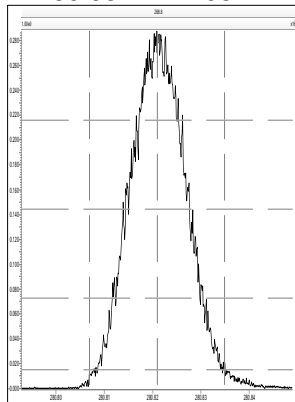
M 254.9856 R 10639



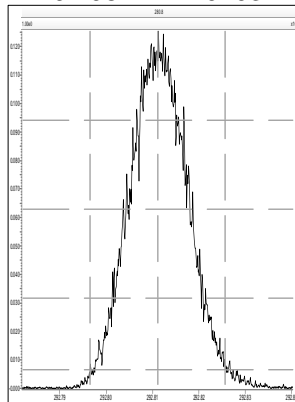
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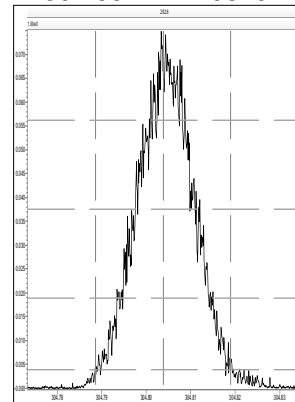
M 280.9824 R 10871



M 292.9824 R 10203



M 304.9824 R 10820





## Experiment Calibration Report

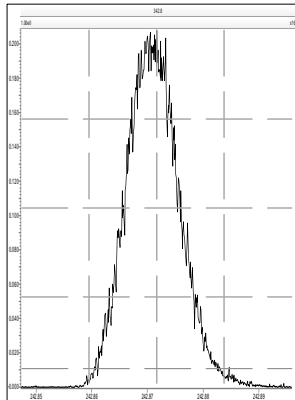
MassLynx 4.1 SCN 881

Page 1 of 1

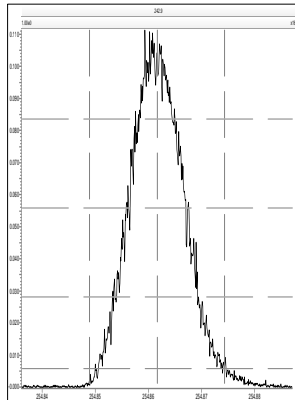
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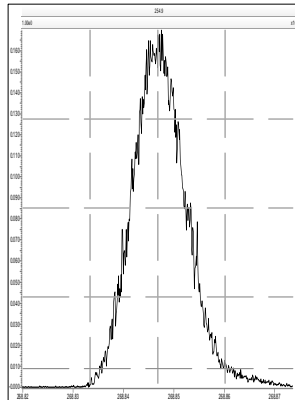
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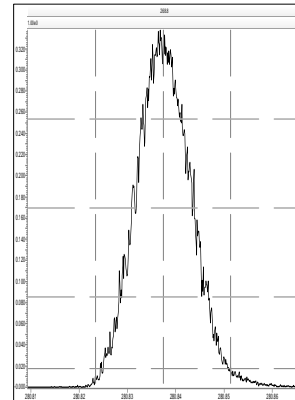
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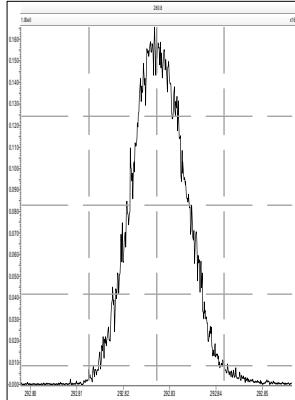
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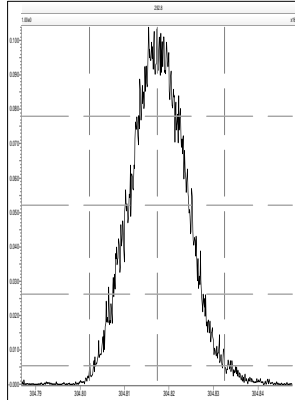
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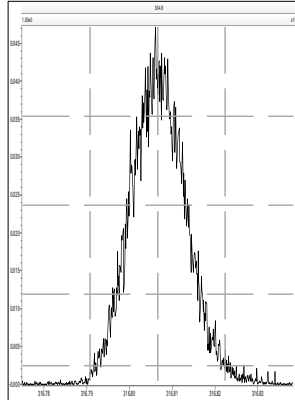
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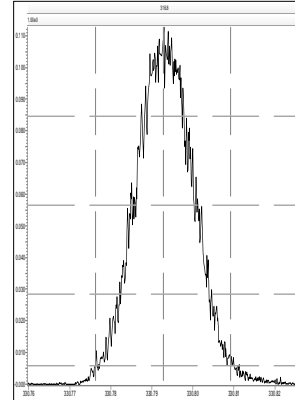
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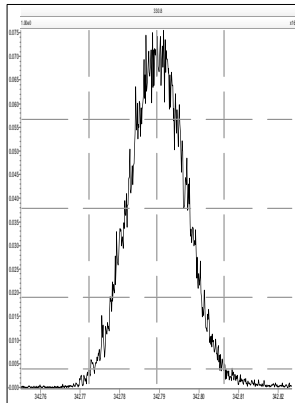
M 316.9824 R 10549



M 330.9792 R 9803



M 342.9792 R 10375



## Experiment Calibration Report

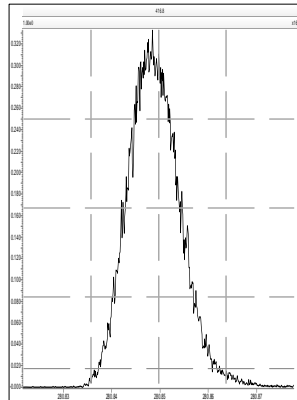
MassLynx 4.1 SCN 881

Page 1 of 1

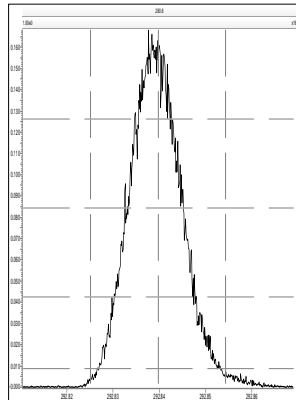
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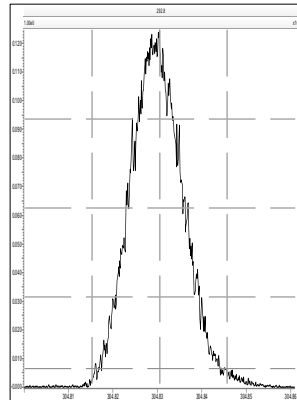
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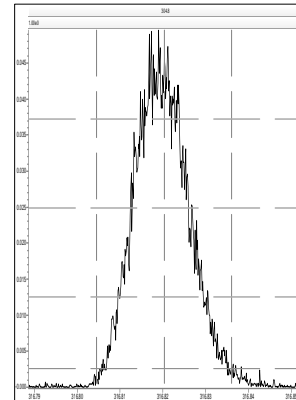
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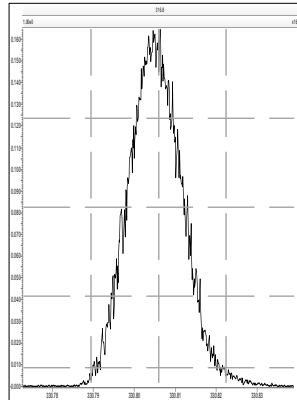
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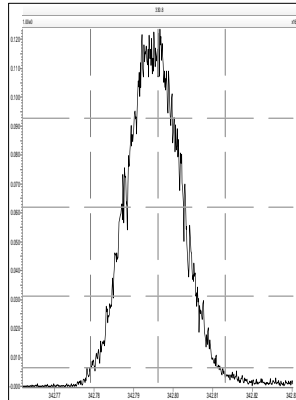
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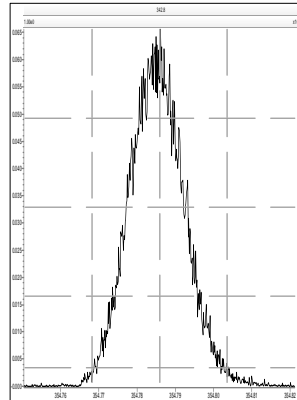
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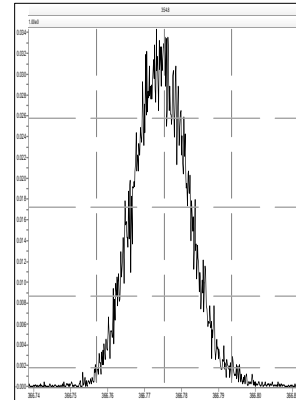
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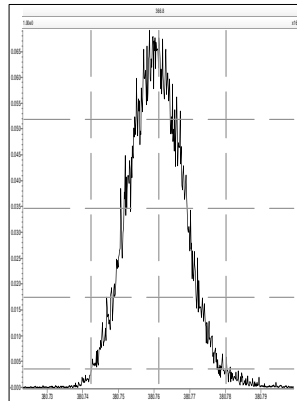
M 354.9792 R 10965



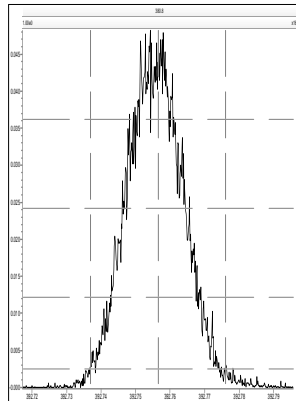
M 366.9792 R 10868



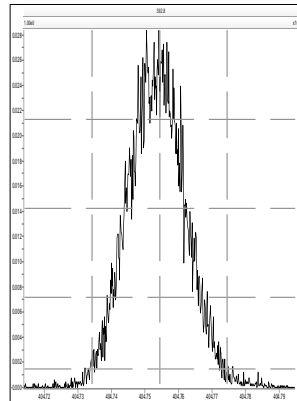
M 380.9760 R 10685



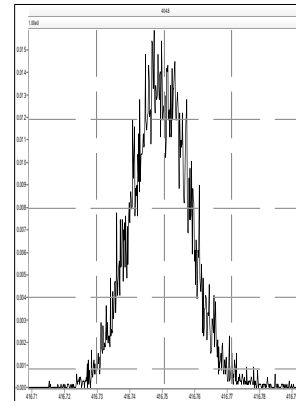
M 392.9760 R 10869



M 404.9760 R 10290



M 416.9760 R 11464



## Experiment Calibration Report

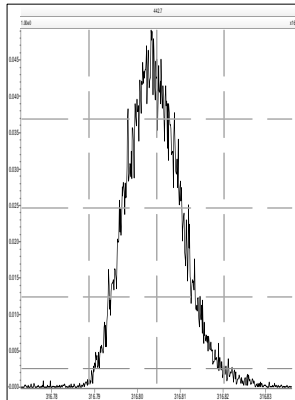
MassLynx 4.1 SCN 881

Page 1 of 1

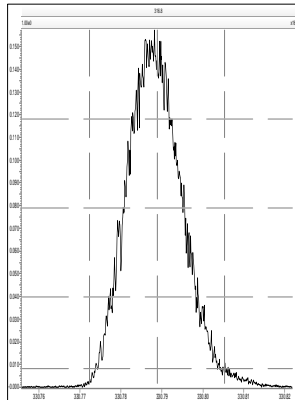
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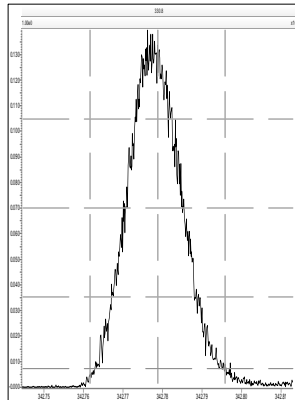
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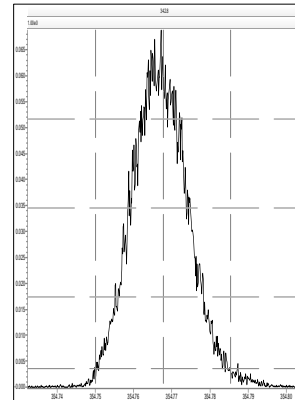
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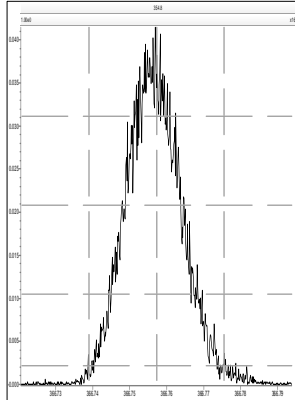
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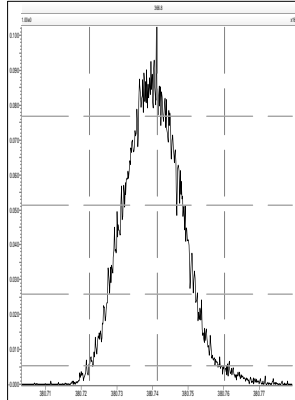
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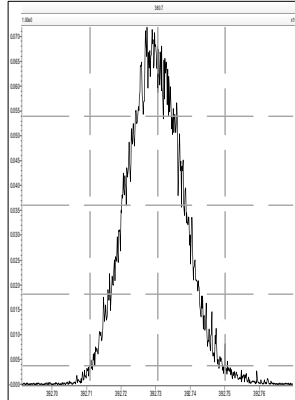
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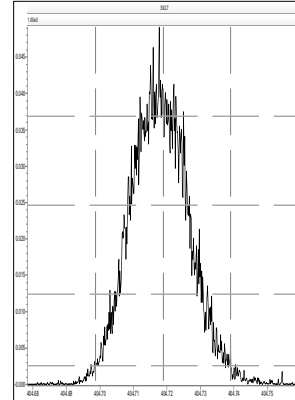
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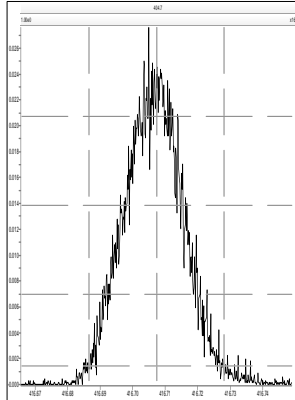
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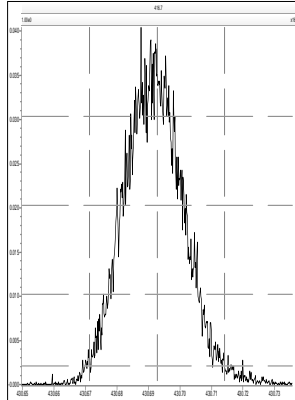
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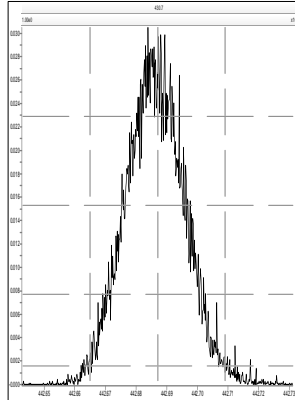
M 416.9760 R 10964



M 430.9728 R 10332



M 442.9728 R 10204



## Experiment Calibration Report

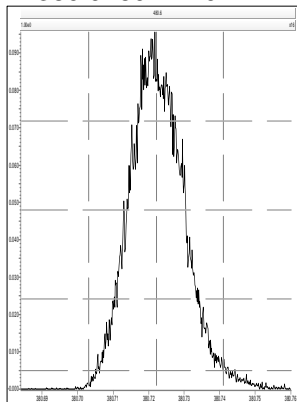
MassLynx 4.1 SCN 881

Page 1 of 1

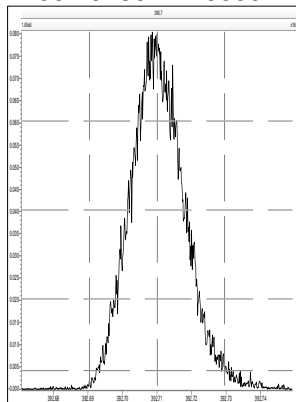
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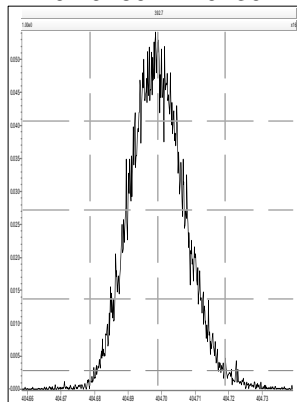
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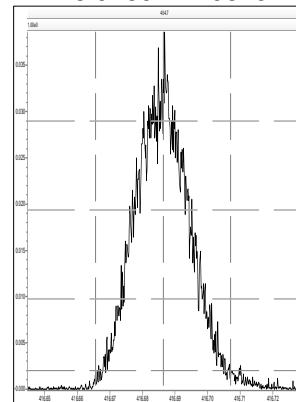
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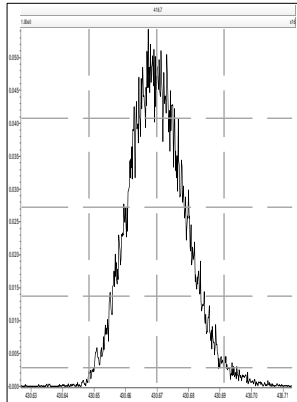
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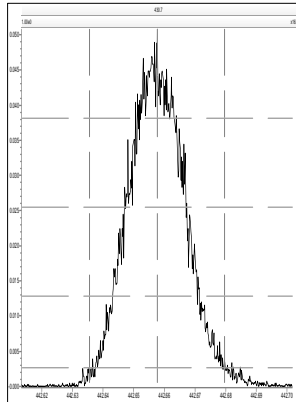
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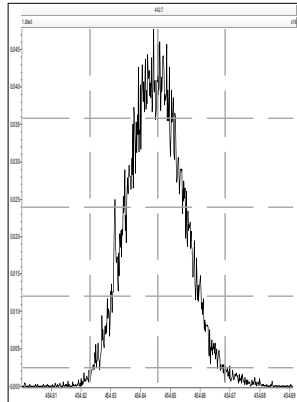
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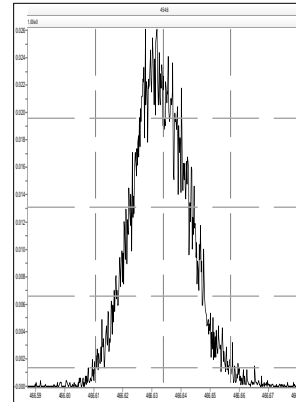
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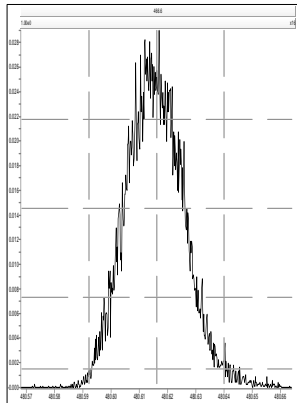
M 454.9728 R 10286



M 466.9728 R 10246



M 480.9696 R 10165



## Experiment Calibration Report

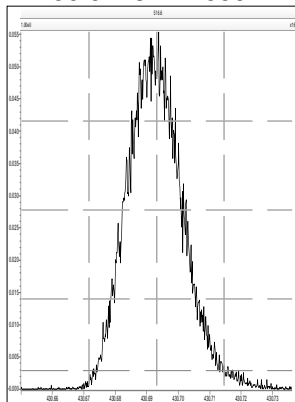
MassLynx 4.1 SCN 881

Page 1 of 1

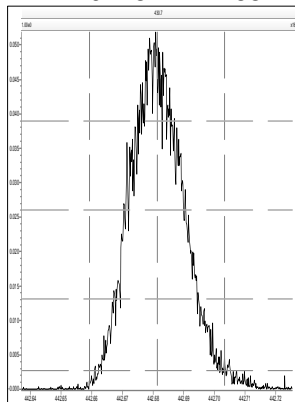
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Printed: Friday, December 20, 2013 14:56:11 Eastern Standard Time

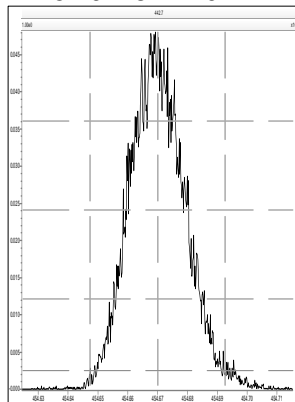
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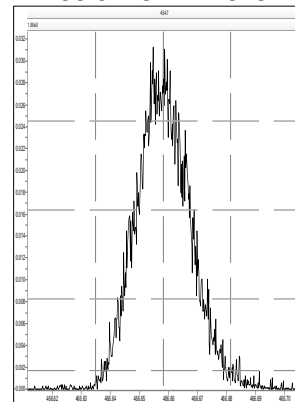
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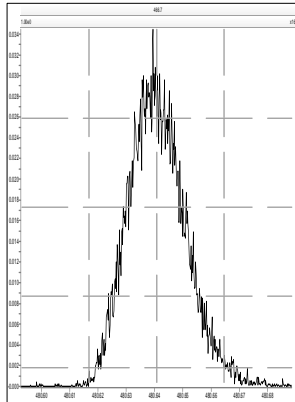
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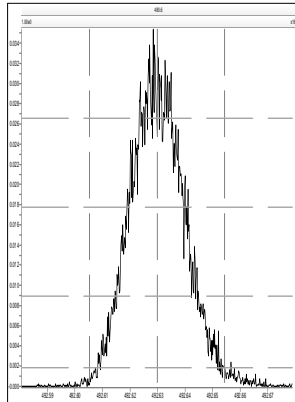
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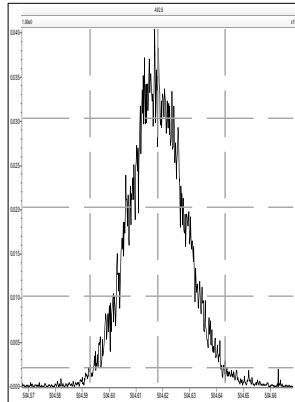
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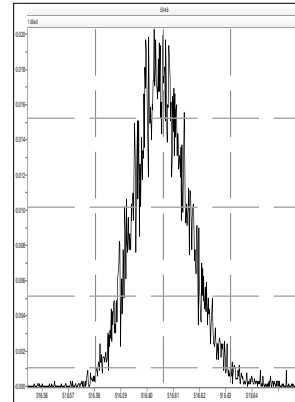
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M 504.9696 R 10504



M 516.9697 R 11012



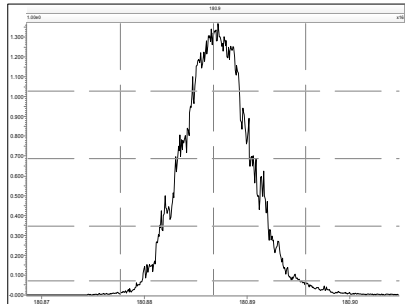
## Resolution Check Report

MassLynx 4.1 SCN 881

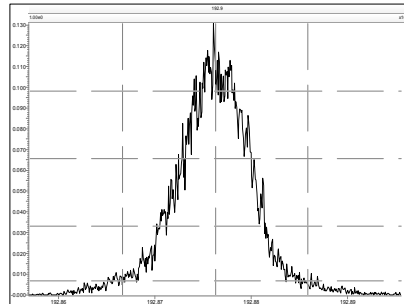
Page 1 of 6

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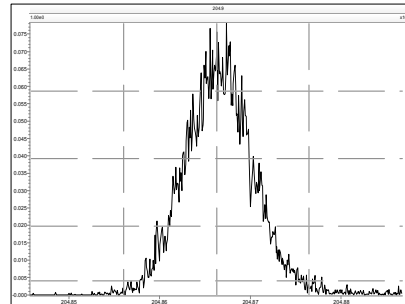
M 180.9888 R 11709



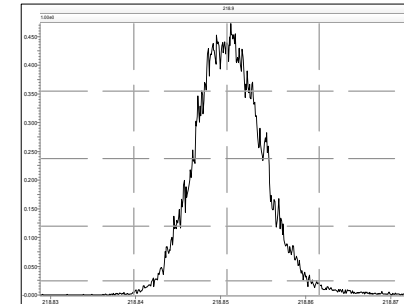
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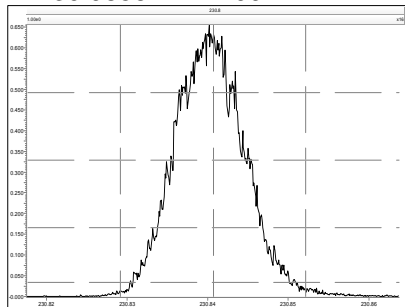
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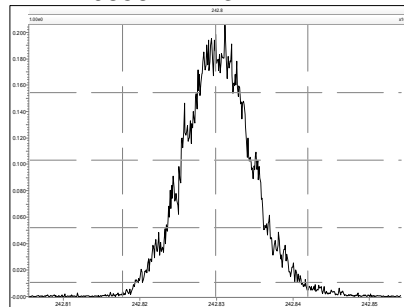
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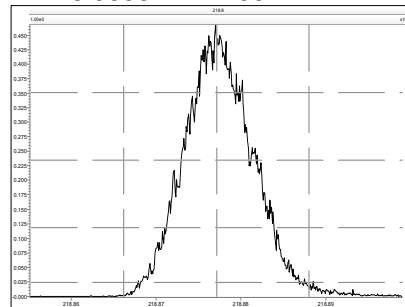
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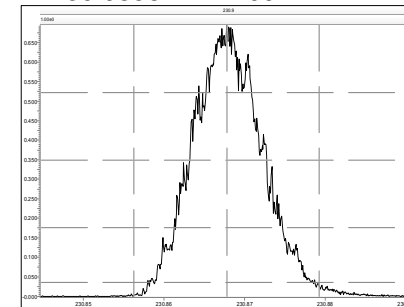
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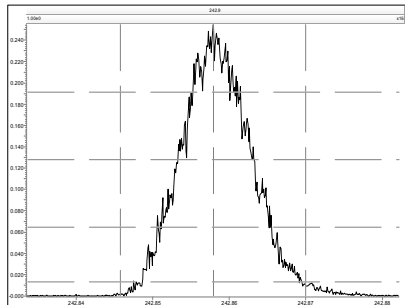
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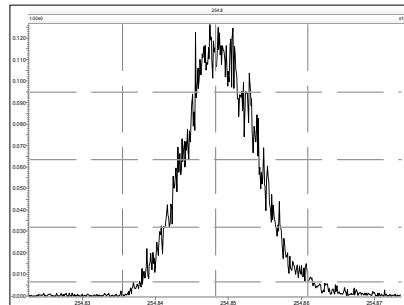
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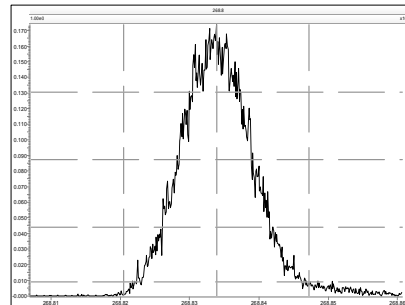
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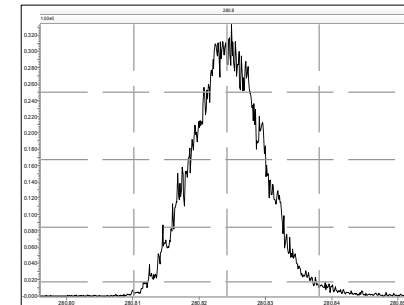
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M 268.9824 R 11848



M 280.9824 R 11210



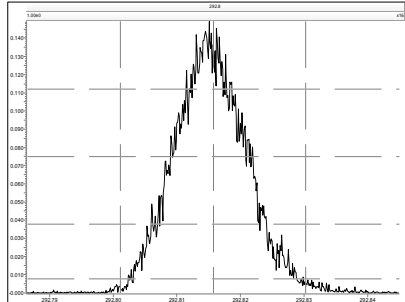
## Resolution Check Report

MassLynx 4.1 SCN 881

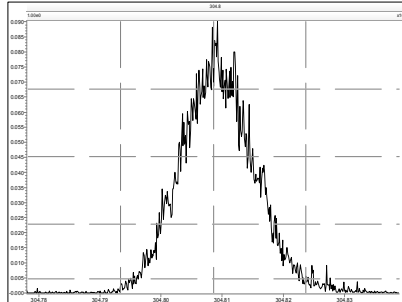
Page 2 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

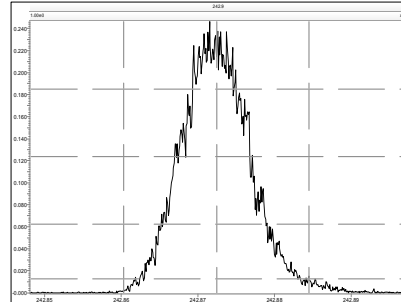
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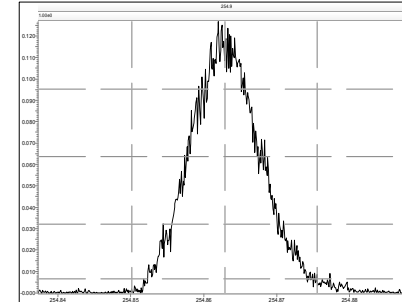
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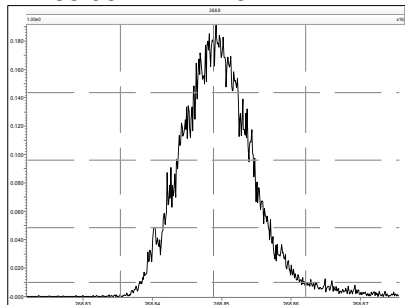
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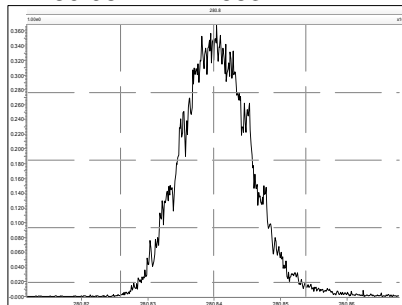
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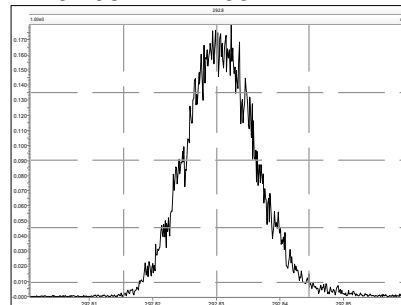
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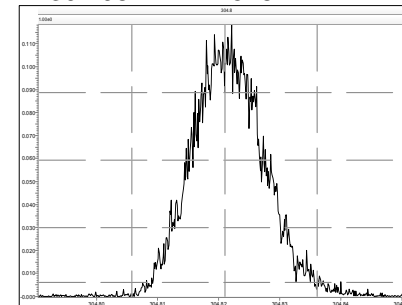
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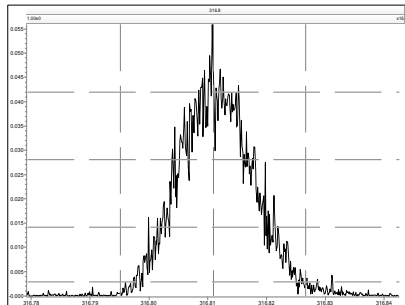
M 292.9824 R 11337



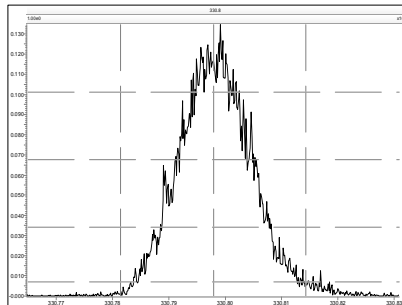
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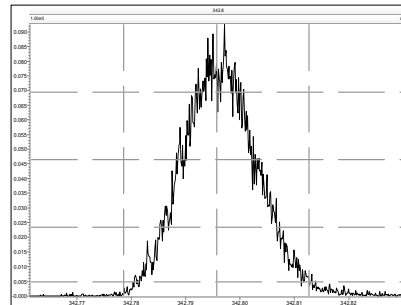
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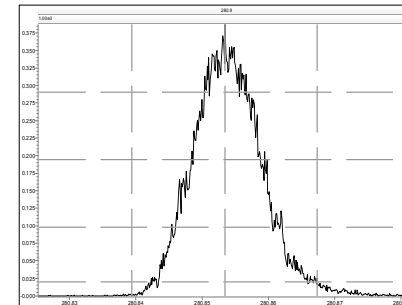
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M 342.9792 R 11340



M 280.9824 R 11876



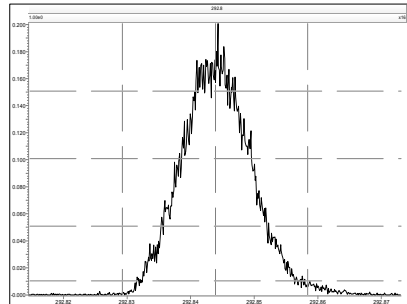
## Resolution Check Report

MassLynx 4.1 SCN 881

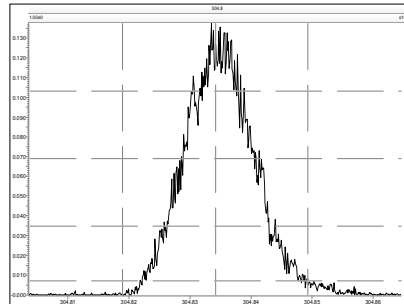
Page 3 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

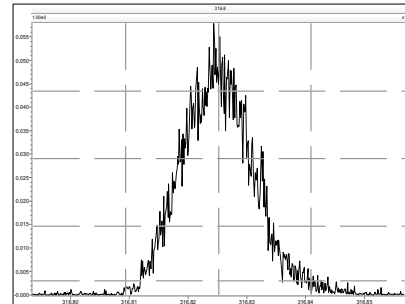
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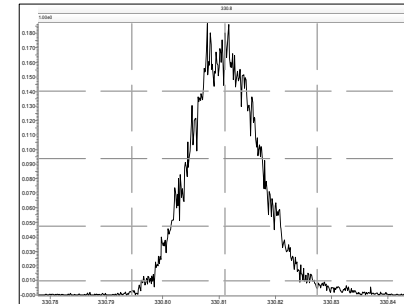
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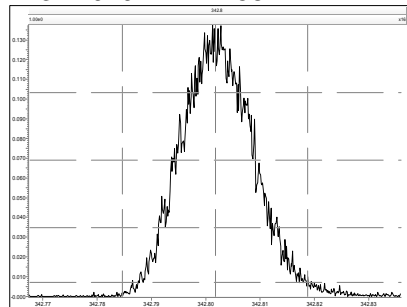
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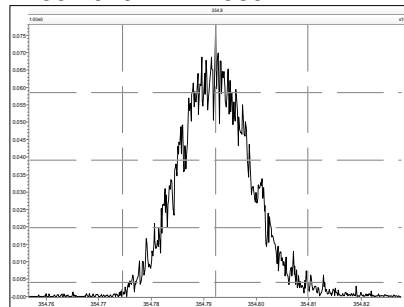
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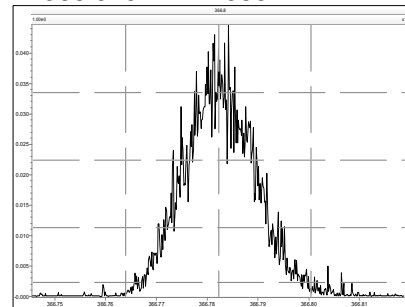
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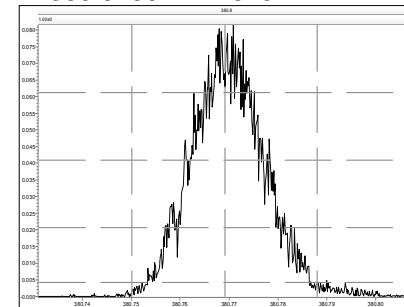
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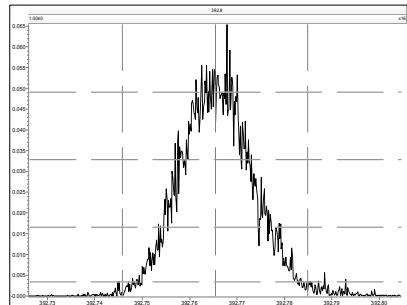
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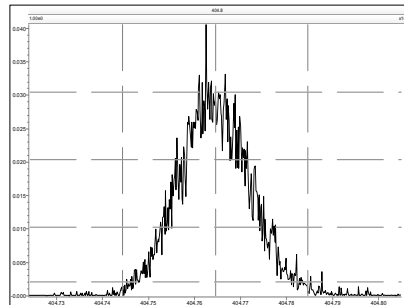
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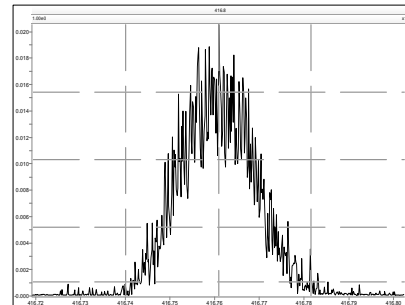
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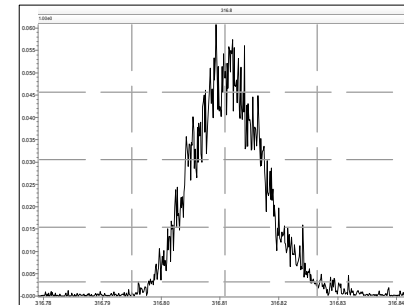
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M 416.9760 R 11574



M 316.9824 R 11467



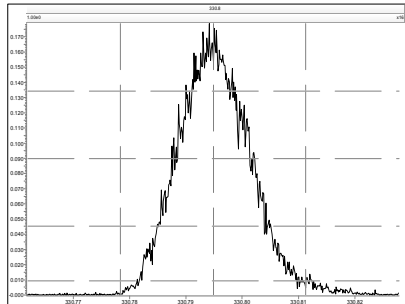


Resolution Check Report

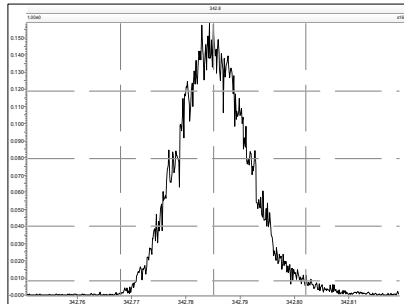
MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

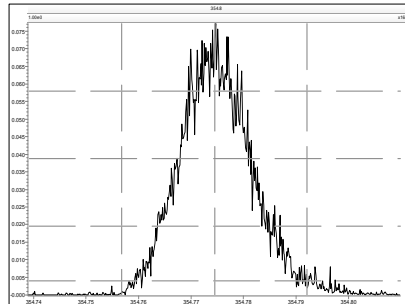
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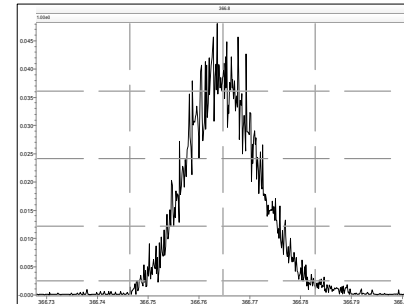
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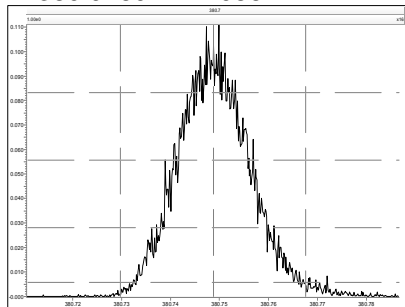
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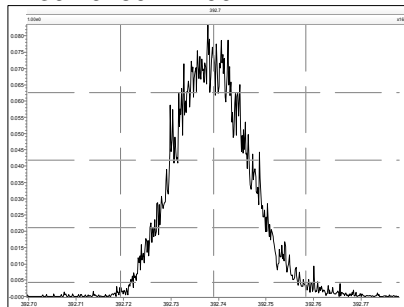
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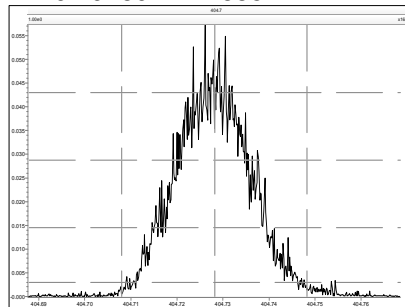
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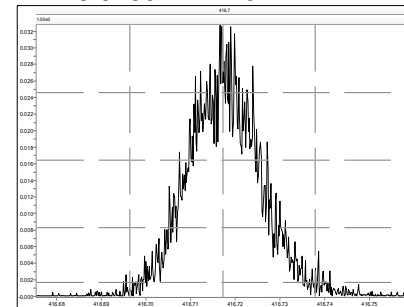
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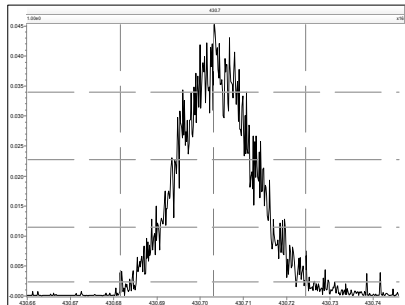
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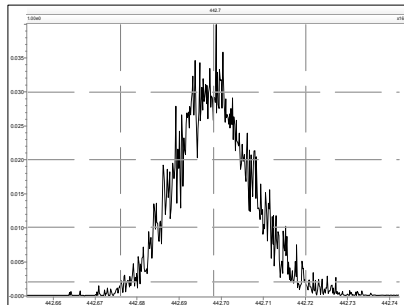
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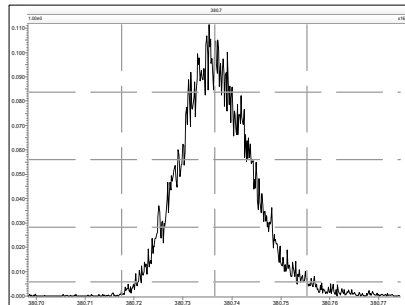
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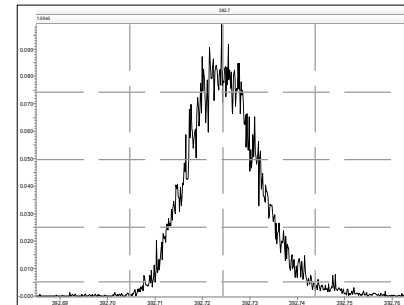
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M 380.9760 R 11522



M 392.9760 R 11852

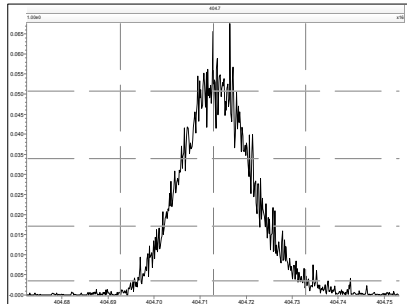


Resolution Check Report

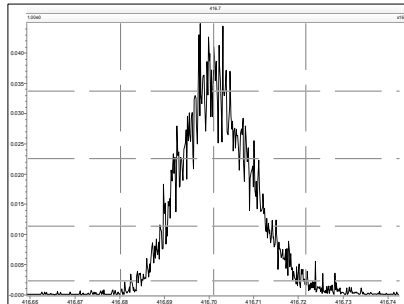
MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

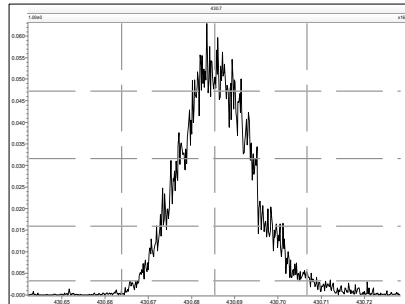
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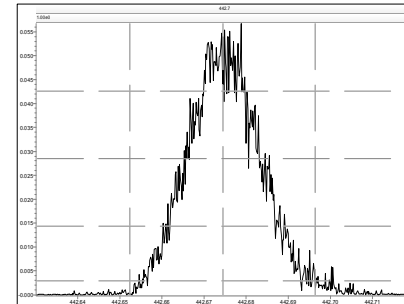
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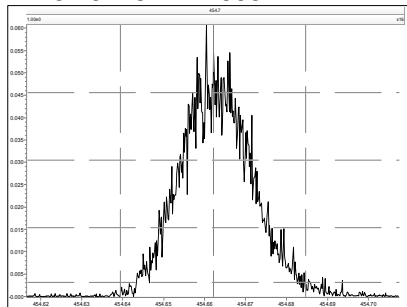
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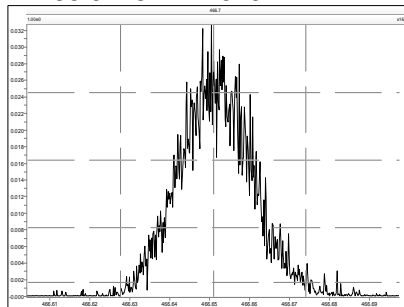
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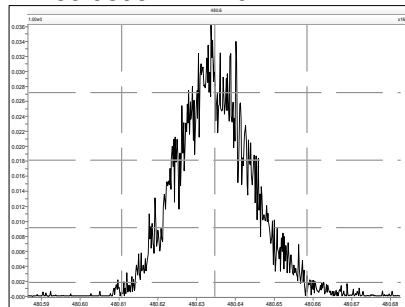
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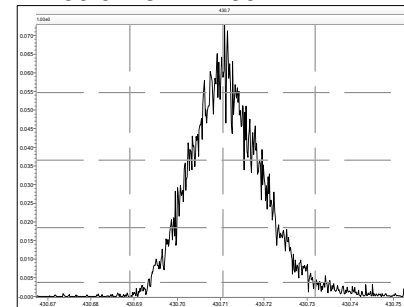
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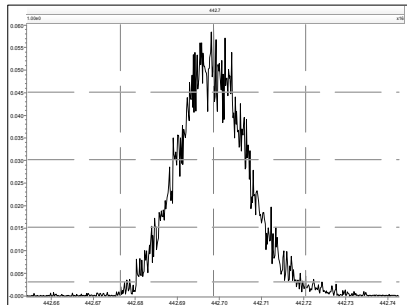
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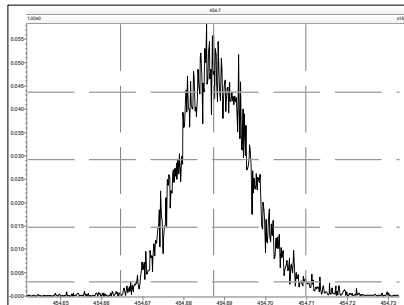
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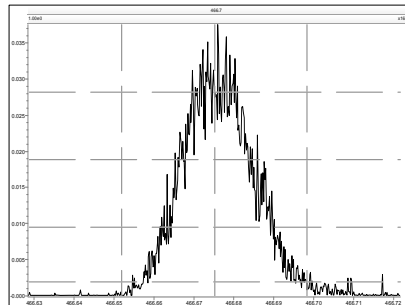
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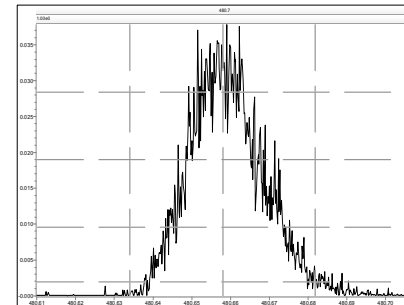
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M 466.9728 R 11628



M 480.9696 R 12053



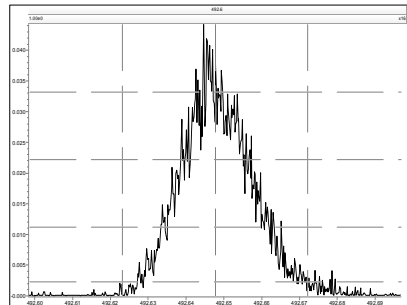
## Resolution Check Report

MassLynx 4.1 SCN 881

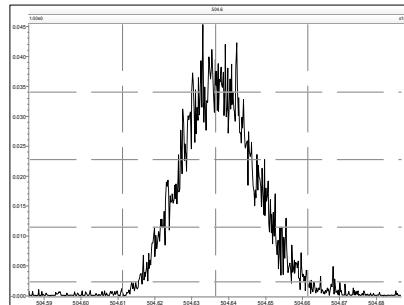
Page 6 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

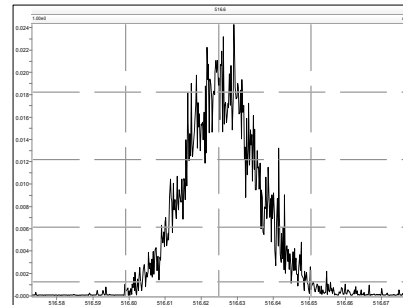
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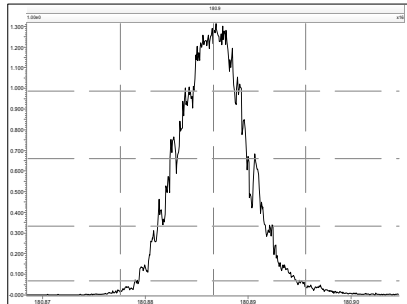


Resolution Check Report

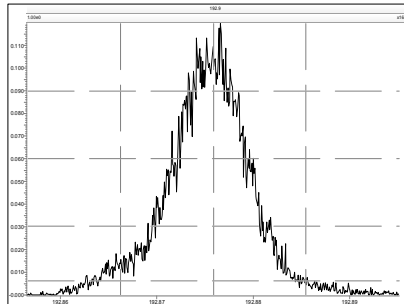
MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

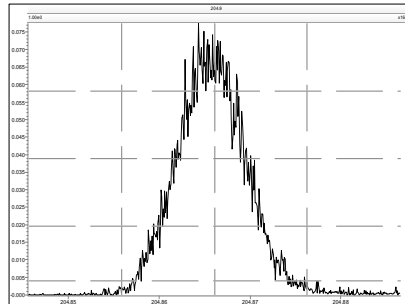
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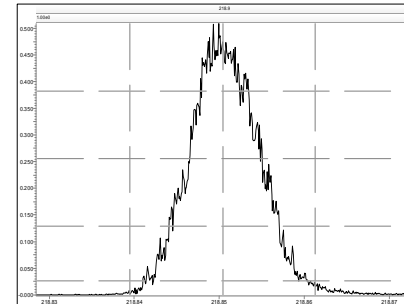
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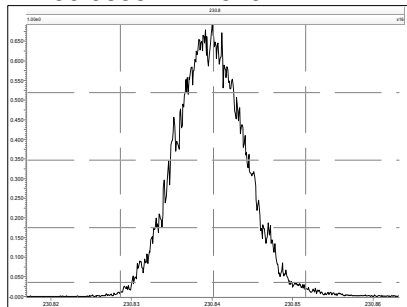
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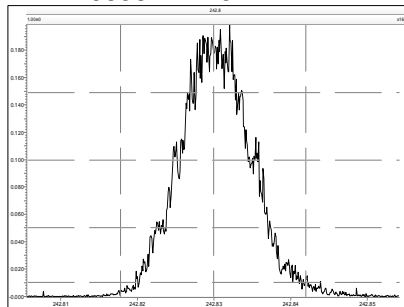
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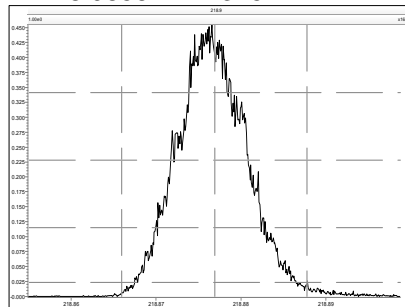
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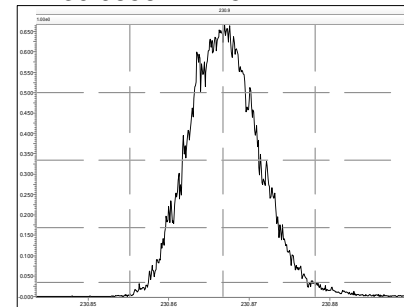
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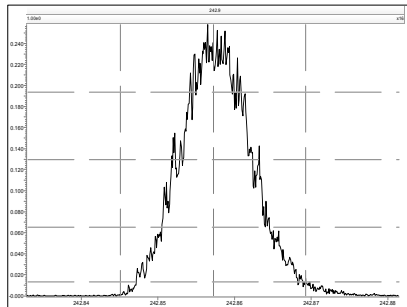
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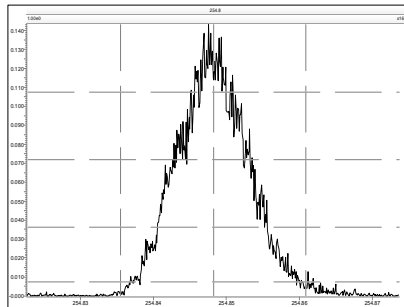
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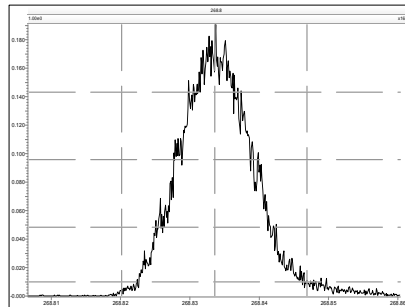
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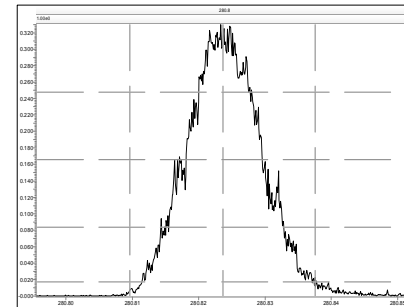
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M 268.9824 R 11118



M 280.9824 R 11012

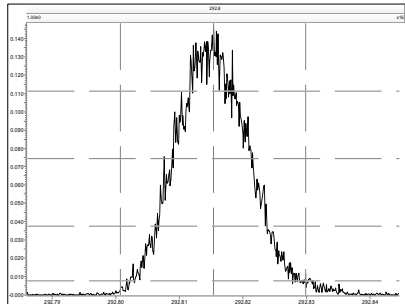


## Resolution Check Report

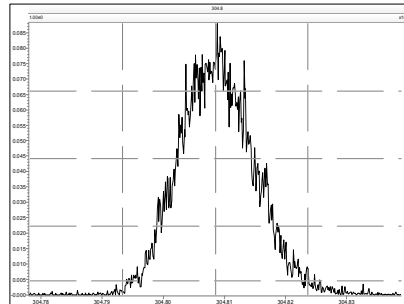
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Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

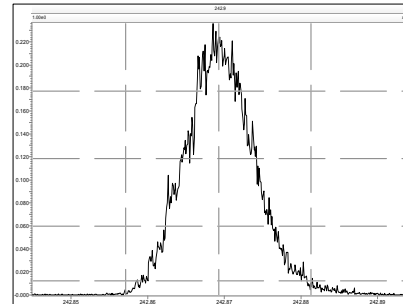
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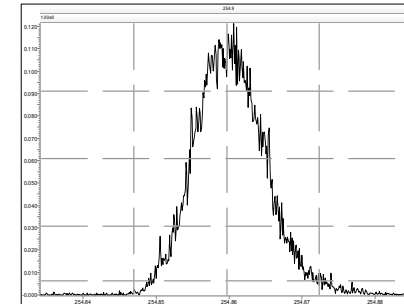
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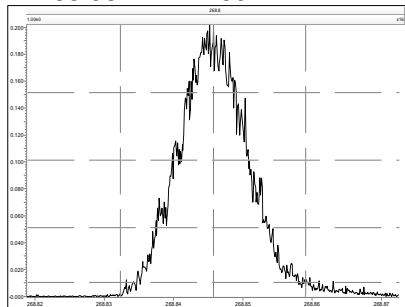
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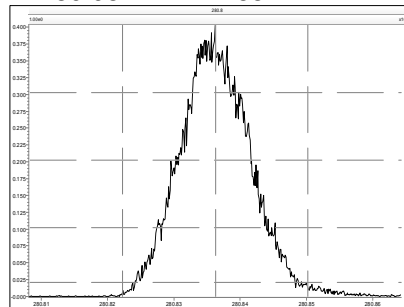
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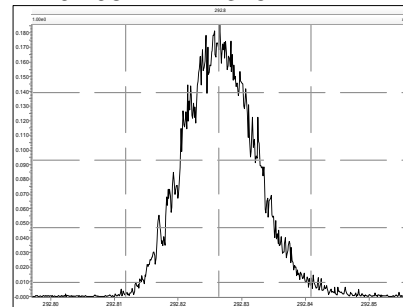
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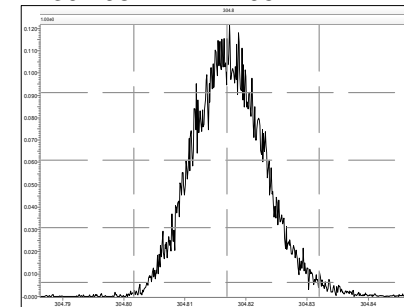
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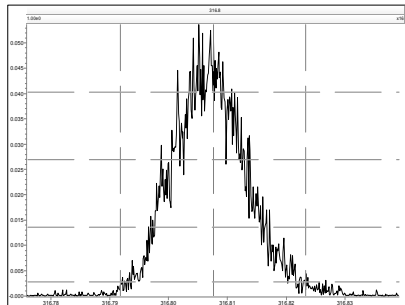
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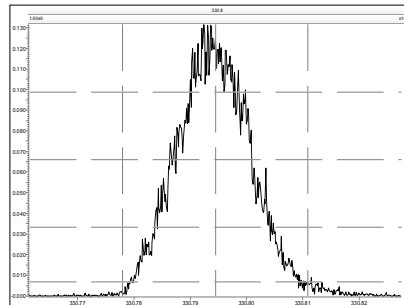
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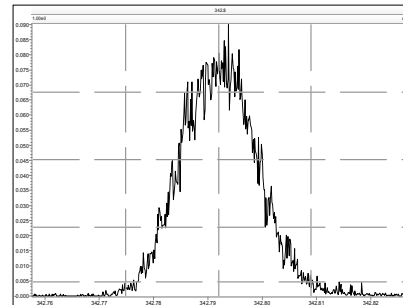
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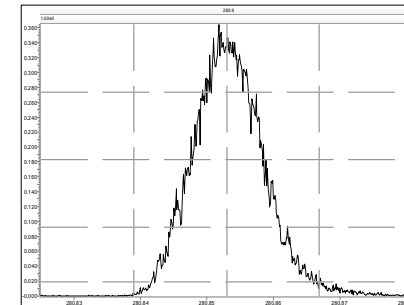
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M 342.9792 R 10706



M 280.9824 R 11548

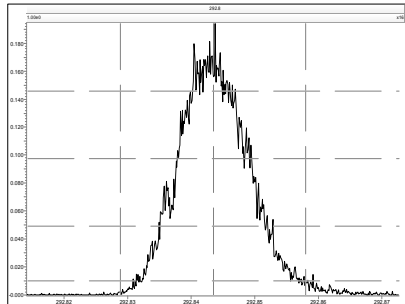


Resolution Check Report

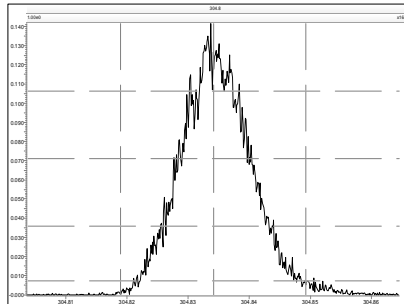
MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

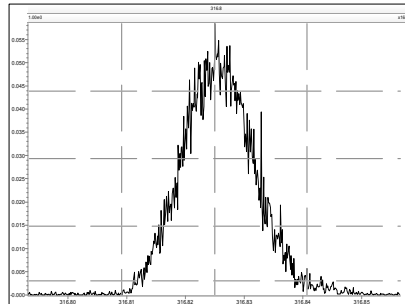
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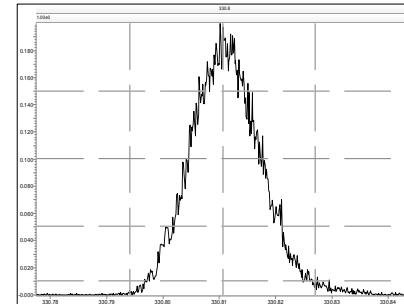
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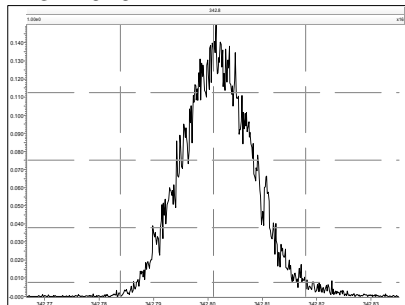
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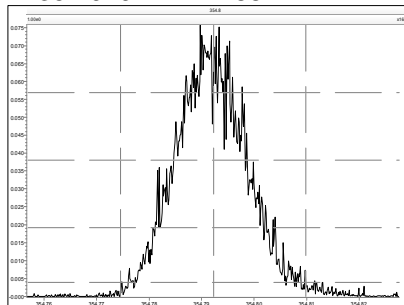
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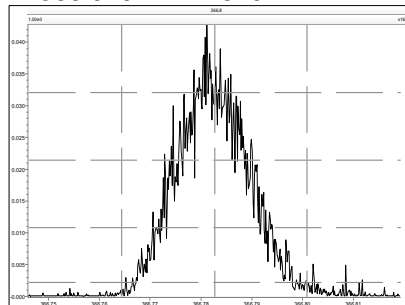
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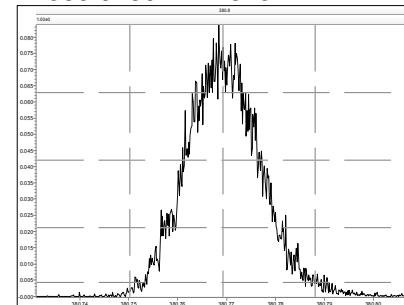
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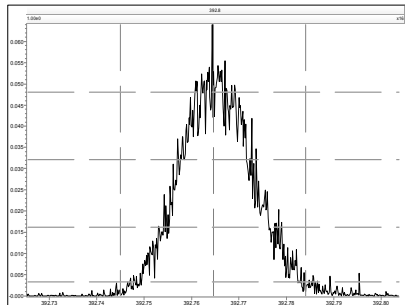
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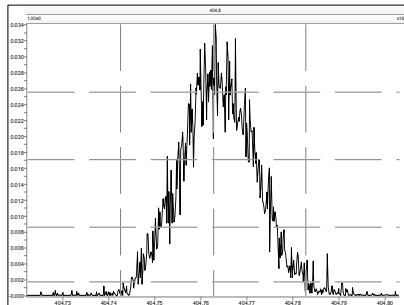
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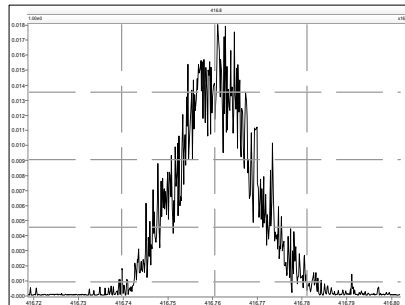
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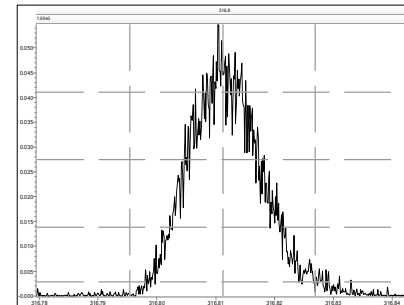
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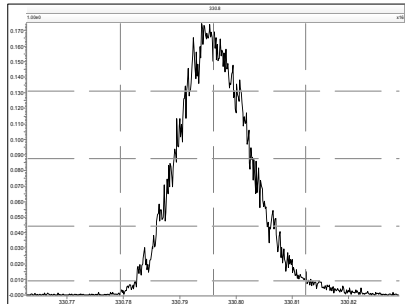


Resolution Check Report

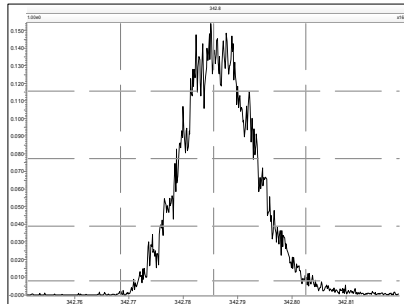
MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

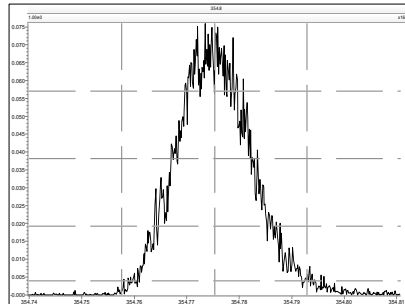
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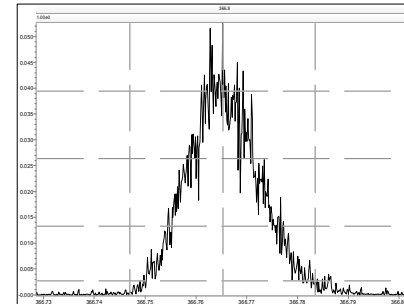
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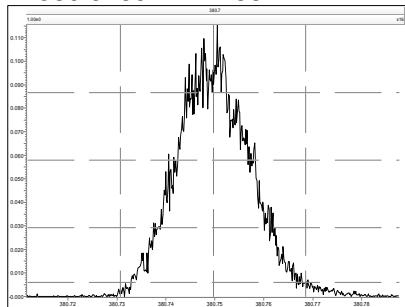
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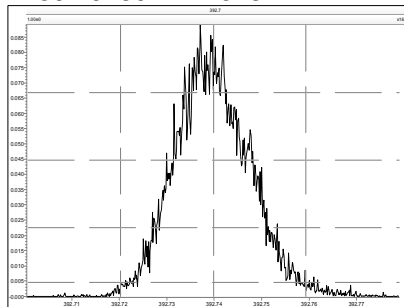
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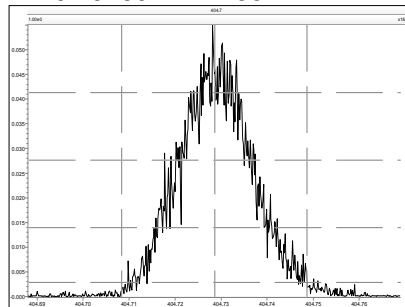
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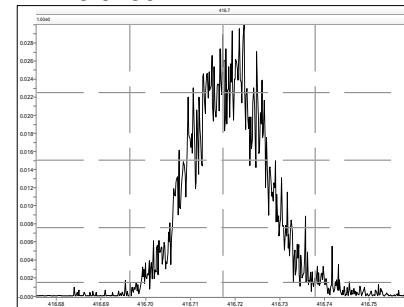
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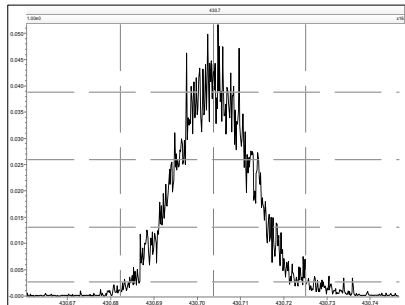
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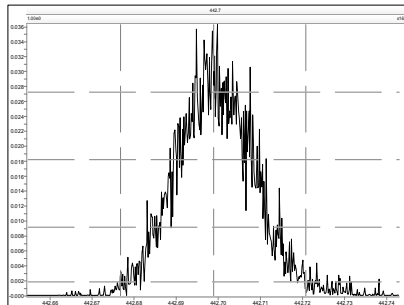
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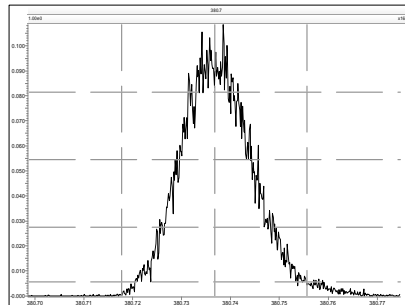
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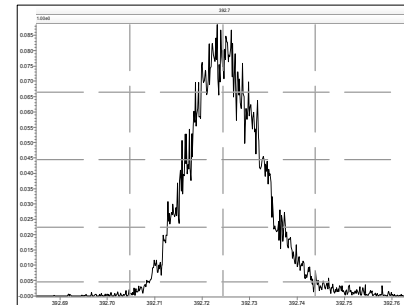
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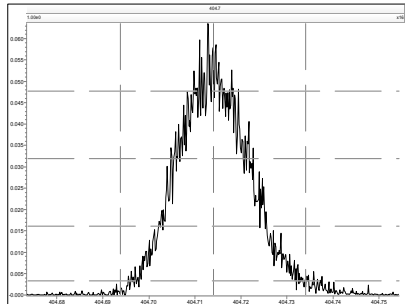


Resolution Check Report

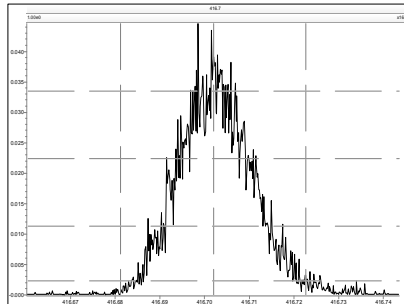
MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

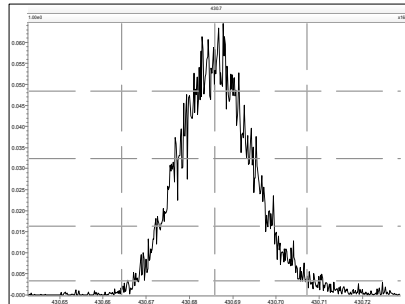
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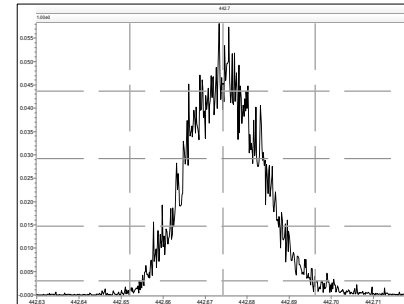
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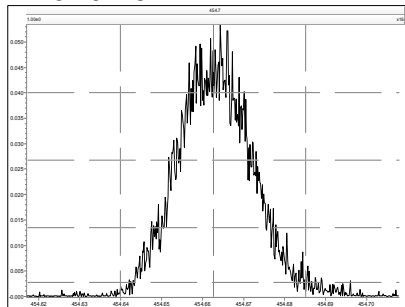
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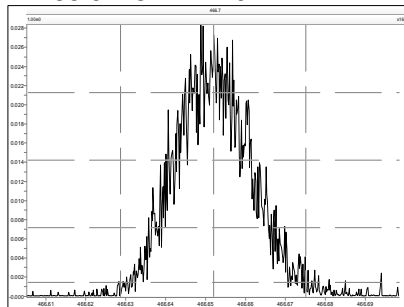
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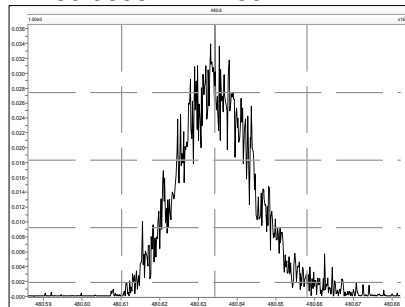
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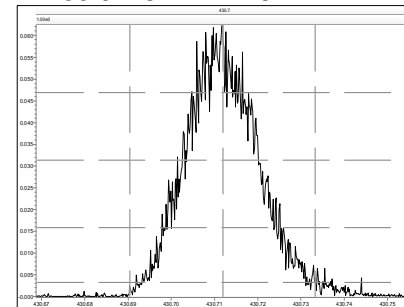
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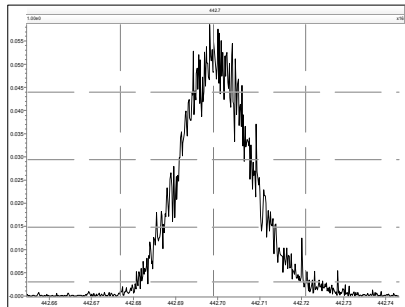
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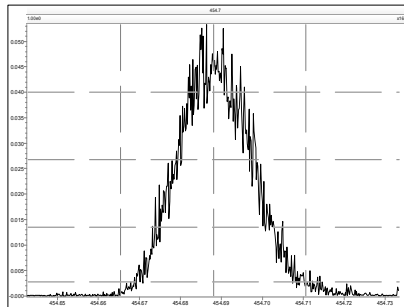
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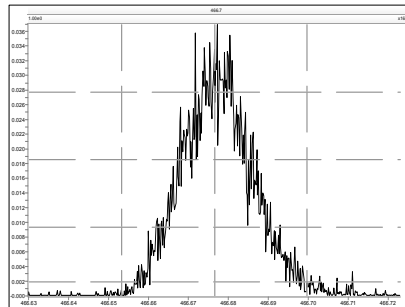
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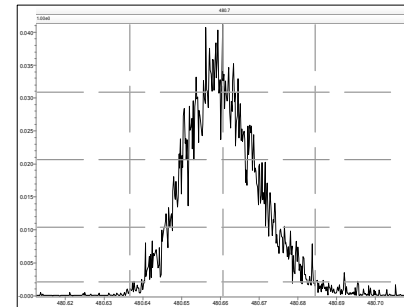
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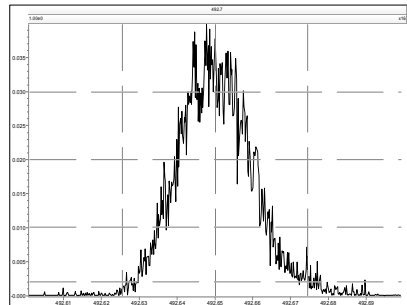
## Resolution Check Report

MassLynx 4.1 SCN 881

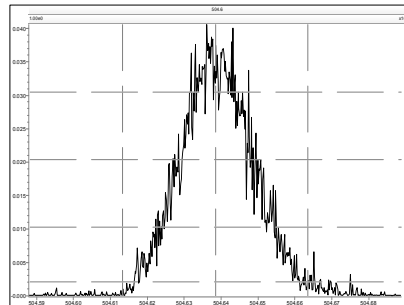
Page 6 of 6

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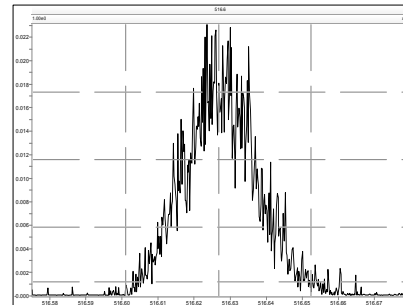
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Lab ID: OPR1\_11903\_PCB-RJ2

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Wt/Vol: 1.00 L

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Client ID: 0\_11903\_OPR001

UTP: 30-Mar-2014 13:41 DES

J-level: 10 pg/uL Split: 1

Checkcode: 662-053-GHH

Datafile: 140328X08

RPT: 04-Apr-2014 09:49 ds

Std (pg): JS: 100 ES: 100 CS/SS: 100

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0006	0	6.34E+07	0.80	1.15	50.8	1.19E+04	0.101
PCB-81 344'5'-TeCB	32.29		1.0005	1.0005	0	6.21E+07	0.80	1.12	52.4	1.19E+04	0.104
PCB-105 233'44'-PeCB	35.76		1.0006	1.0007	+0.2	5.04E+07	0.62	1.11	48.8	4.97E+03	0.0499
PCB-114 2344'5'-PeCB	35.21		1.0007	1.0007	0	5.47E+07	0.62	1.20	49.6	4.97E+03	0.0474
PCB-118 23'44'5'-PeCB	34.75		1.0006	1.0006	0	5.19E+07	0.62	1.19	48.8	4.97E+03	0.0489
PCB-123 23'44'5'-PeCB	34.47		1.0006	1.0007	+0.2	5.33E+07	0.62	1.21	49.4	4.97E+03	0.0477
PCB-126 33'44'5'-PeCB	38.36		1.0005	1.0005	0	4.94E+07	0.64	1.11	52.6	5.75E+03	0.064
PCB-156/157 ...-HxCB	40.91	C	1.0005	1.0005	0	8.78E+07	1.21	1.10	98.9	8.30E+03	0.131
PCB-167 23'44'55'-HxCB	39.93		1.0006	1.0006	0	4.79E+07	1.21	1.16	48.7	8.30E+03	0.0876
PCB-169 33'44'55'-HxCB	43.62		1.0004	1.0004	0	4.58E+07	1.24	1.12	47.9	8.30E+03	0.0913
PCB-189 233'44'55'-HpCB	45.75		1.0004	1.0004	0	4.27E+07	1.07	1.07	51.1	4.48E+03	0.0562
PCB-209 DeCB	50.80		1.0004	1.0004	0	2.95E+07	1.18	1.11	48.5	1.44E+03	0.0272
ES PCB-1	11.87		0.7245	0.7246	+0.1	1.52E+08	3.26	1.19	86.7 %	15%	140%
ES PCB-3	14.15		0.8640	0.8640	0	1.42E+08	3.26	1.09	89.1 %	15%	140%
ES PCB-4	14.40		0.8795	0.8794	-0.1	8.42E+07	1.60	0.52	110 %	30%	140%
ES PCB-15	20.11		1.2271	1.2276	+0.6	1.64E+08	1.55	1.04	107 %	30%	140%
ES PCB-19	17.48		1.0673	1.0674	+0.1	8.05E+07	1.06	0.51	108 %	30%	140%
ES PCB-37	26.43		1.0787	1.0790	+0.5	1.25E+08	1.09	1.66	96 %	30%	140%
ES PCB-54	20.39		0.8328	0.8325	-0.4	8.04E+07	0.78	0.86	119 %	30%	140%
ES PCB-77	32.75		1.3364	1.3373	+1.8	1.08E+08	0.79	1.38	100 %	30%	140%
ES PCB-81	32.28		1.3170	1.3179	+1.7	1.06E+08	0.79	1.37	98.9 %	30%	140%
ES PCB-104	25.36		0.8325	0.8321	-0.6	7.32E+07	1.56	0.80	129 %	30%	140%
ES PCB-105	35.73		1.1720	1.1725	+1.1	9.28E+07	1.59	1.20	109 %	30%	140%
ES PCB-114	35.19		1.1543	1.1547	+0.8	9.16E+07	1.59	1.22	106 %	30%	140%
ES PCB-118	34.73		1.1391	1.1394	+0.6	8.93E+07	1.59	1.16	109 %	30%	140%
ES PCB-123	34.45		1.1299	1.1302	+0.6	8.90E+07	1.57	1.19	106 %	30%	140%
ES PCB-126	38.34		1.2575	1.2581	+1.4	8.49E+07	1.56	1.03	117 %	30%	140%
ES PCB-153	36.31		0.9716	0.9716	0	6.21E+07	1.29	1.11	98.4 %	30%	140%
ES PCB-155	30.31		0.8114	0.8110	-0.7	8.62E+07	1.27	1.59	97 %	30%	140%
ES PCB-156/157	40.89		1.0939	1.0941	+0.5	1.62E+08	1.25	1.60	90.4 %	30%	140%
ES PCB-167	39.91		1.0677	1.0678	+0.2	8.45E+07	1.26	1.67	90.6 %	30%	140%
ES PCB-169	43.60		1.1664	1.1667	+0.8	8.51E+07	1.27	1.56	97.7 %	30%	140%
ES PCB-170	43.12		0.9081	0.9079	-0.5	5.05E+07	1.07	0.95	100 %	30%	140%
ES PCB-180	42.05		0.8856	0.8855	-0.3	6.00E+07	1.07	1.14	102 %	30%	140%
ES PCB-188	35.18		0.7413	0.7409	-0.8	6.27E+07	1.08	0.94	119 %	30%	140%
ES PCB-189	45.73		0.9629	0.9629	0	7.78E+07	1.02	1.58	102 %	30%	140%
ES PCB-202	39.72		0.8366	0.8364	-0.5	6.04E+07	0.92	0.97	111 %	30%	140%
ES PCB-205	47.89		1.0084	1.0084	0	5.95E+07	0.88	1.24	99.2 %	30%	140%
ES PCB-206	49.35		1.0392	1.0392	0	4.28E+07	0.80	0.83	107 %	30%	140%
ES PCB-208	45.34		0.9549	0.9548	-0.3	6.29E+07	0.79	1.17	111 %	30%	140%
ES PCB-209	50.78		1.0694	1.0693	-0.3	5.46E+07	1.17	1.11	102 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High	
SS PCB-28	22.87		0.9339	0.9338	-0.1	1.43E+08	1.07	1.11	103 %	40%	125%	
SS PCB-111	32.77		1.0750	1.0752	+0.4	9.69E+07	1.57	1.03	106 %	40%	125%	
SS PCB-178	37.75		1.0100	1.0100	0	4.21E+07	1.08	0.62	108 %	40%	125%	
CS PCB-28	22.87		0.9339	0.9338	-0.1	1.43E+08	1.07	1.85	98.8 %	40%	125%	
CS PCB-111	32.77		1.0750	1.0752	+0.4	9.69E+07	1.57	1.22	112 %	40%	125%	
CS PCB-178	37.75	V	1.0100	1.0100	0	4.21E+07	1.08	0.58	129 %	40%	125%	
JS PCB-9	16.38					1.47E+08	1.57					
JS PCB-52	24.49					7.83E+07	0.80					
JS PCB-101	30.48					7.09E+07	1.58					
JS PCB-138	37.37					5.59E+07	1.28					
JS PCB-194	47.49					4.82E+07	0.91					
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
						Mono-CBs	163	163	0.0282			
						Di-CBs	589	589	0.0381			
						Tri-CBs	1,180	1,180	0.0601			
						Tetra-CBs	2,030	2,030	0.0578			
						Penta-CBs	2,280	2,280	0.0457			
						Hexa-CBs	2,130	2,130	0.0824			
						Hepta-CBs	1,220	1,220	0.0976			
						Octa-CBs	619	619	0.0489			
						Nona-CBs	151	151	0.091			
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	8.13E+07	3.17	0.95	56.1	5.89E+03	0.0252	
PCB-2 3-MoCB	13.98		0.9880	0.9881	+0.1	8.39E+07	3.23	1.17	50.6	5.89E+03	0.0271	
PCB-3 4-MoCB	14.16		1.0010	1.0010	0	8.13E+07	3.24	1.01	56.6	5.89E+03	0.0312	
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	4.88E+07	1.58	1.23	47	5.73E+03	0.0405	
PCB-10 26'-DiCB	14.60		1.0135	1.0135	0	7.96E+07	1.58	1.92	49.1	5.73E+03	0.026	
PCB-9 25'-DiCB	16.39		1.0010	1.0010	0	7.65E+07	1.64	0.97	48.3	6.59E+03	0.0377	
PCB-7 24'-DiCB	16.56		1.0111	1.0112	+0.1	8.69E+07	1.63	1.10	48.3	6.59E+03	0.0332	
PCB-6 23'-DiCB	16.79		1.0249	1.0249	0	8.18E+07	1.65	1.03	48.6	6.59E+03	0.0355	
PCB-5 23'-DiCB	17.09		1.0433	1.0434	+0.1	8.23E+07	1.64	1.03	48.7	6.59E+03	0.0353	
PCB-8 24'-DiCB	17.21		1.0506	1.0507	+0.1	8.34E+07	1.64	1.04	49.1	6.59E+03	0.0352	
PCB-14 35'-DiCB	18.76		0.9334	0.9332	-0.2	9.88E+07	1.62	1.23	49	6.59E+03	0.0297	
PCB-11 33'-DiCB	19.54	B	0.9721	0.9720	-0.1	8.66E+07	1.63	1.06	49.8	6.59E+03	0.0344	
PCB-13/12 34'/34'-DiCB	19.84	C	0.9866	0.9866	0	1.72E+08	1.63	1.06	99.4	6.59E+03	0.0345	
PCB-15 44'-DiCB	20.12		1.0008	1.0008	0	8.69E+07	1.64	1.02	52	6.59E+03	0.0358	
PCB-19 22'6-TrCB	17.50		1.0010	1.0010	0	4.47E+07	1.04	1.15	48.4	5.93E+03	0.0539	
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1015	+0.1	1.24E+08	1.05	1.56	99	5.93E+03	0.0397	
PCB-17 22'4-TrCB	19.66		1.1243	1.1245	+0.2	5.30E+07	1.04	1.33	49.5	5.93E+03	0.0465	
PCB-27 23'6-TrCB	19.85		1.1353	1.1355	+0.2	7.25E+07	1.05	1.82	49.5	5.93E+03	0.034	
PCB-24 236-TrCB	19.98		1.1430	1.1432	+0.2	6.91E+07	1.04	1.74	49.4	5.93E+03	0.0356	
PCB-16 22'3-TrCB	20.08		1.1484	1.1486	+0.2	4.00E+07	1.05	0.99	50.3	5.93E+03	0.0625	

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.56		1.1758	1.1761	+0.4	7.69E+07	1.04	1.93	49.4	5.93E+03	0.032
PCB-34 23'5'-TrCB	21.71		0.8218	0.8214	-0.5	7.50E+07	1.02	1.25	48.1	8.82E+03	0.0573
PCB-23 235-TrCB	21.86		0.8275	0.8271	-0.5	7.48E+07	1.01	1.27	47.4	8.82E+03	0.0566
PCB-26/29 23'5'/245-TrCB	22.14	C	0.8383	0.8379	-0.5	1.55E+08	1.01	1.28	96.6	8.82E+03	0.0559
PCB-25 23'4-TrCB	22.34		0.8456	0.8453	-0.4	7.69E+07	1.01	1.26	48.8	8.82E+03	0.0567
PCB-31 24'5-TrCB	22.62		0.8562	0.8559	-0.4	8.04E+07	1.01	1.34	47.9	8.82E+03	0.0533
PCB-28/20 244'/233'-TrCB	22.90	C	0.8670	0.8666	-0.5	1.51E+08	1.02	1.26	96.5	8.82E+03	0.057
PCB-21/33 234/23'4'-TrCB	23.08	C	0.8738	0.8735	-0.4	1.56E+08	1.01	1.28	97.4	8.82E+03	0.0558
PCB-22 234'-TrCB	23.46		0.8880	0.8877	-0.4	7.24E+07	1.00	1.20	48.3	8.82E+03	0.0596
PCB-36 33'5-TrCB	24.84		0.9401	0.9400	-0.1	7.96E+07	1.01	1.32	48.3	8.82E+03	0.0543
PCB-39 34'5-TrCB	25.16		0.9522	0.9521	-0.2	8.20E+07	1.01	1.36	48.4	8.82E+03	0.0527
PCB-38 345-TrCB	25.69		0.9723	0.9722	-0.2	7.58E+07	1.03	1.22	49.8	8.82E+03	0.0587
PCB-35 33'4-TrCB	26.08		0.9871	0.9871	0	7.26E+07	1.01	1.19	48.9	8.82E+03	0.0602
PCB-37 344'-TrCB	26.45		1.0007	1.0007	0	7.56E+07	1.00	1.08	56.1	8.82E+03	0.0664
PCB-54 22'66'-TeCB	20.41		1.0010	1.0010	0	5.11E+07	0.79	1.35	47	2.16E+03	0.0175
PCB-50/53 22'46/22'56'-TeCB	22.39	C	0.9145	0.9143	-0.3	9.32E+07	0.79	0.92	95.4	3.11E+03	0.0329
PCB-45 22'36-TeCB	22.98		0.9383	0.9383	0	4.13E+07	0.79	0.84	46.4	3.11E+03	0.0361
PCB-51 22'46'-TeCB	23.05		0.9413	0.9412	-0.1	4.69E+07	0.79	0.90	49.5	3.11E+03	0.0339
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	3.80E+07	0.79	0.74	48.8	3.11E+03	0.0412
PCB-52 22'55'-TeCB	24.51	B	1.0009	1.0009	0	4.59E+07	0.79	0.90	48.2	3.11E+03	0.0338
PCB-73 23'5'6-TeCB	24.64		1.0062	1.0061	-0.1	6.03E+07	0.78	1.19	47.7	3.11E+03	0.0254
PCB-43 22'35-TeCB	24.74		1.0101	1.0100	-0.1	4.01E+07	0.79	0.75	50.2	3.11E+03	0.0402
PCB-69/49 23'46/22'45'-TeCB	24.93	C	1.0181	1.0181	0	1.13E+08	0.79	1.10	97.1	3.11E+03	0.0277
PCB-48 22'45-TeCB	25.22		1.0295	1.0296	+0.2	4.63E+07	0.80	0.90	48.4	3.11E+03	0.0335
PCB-44/47/65 ...-TeCB	25.43	C	1.0384	1.0385	+0.2	1.48E+08	0.79	0.96	145	3.11E+03	0.0314
PCB-59/62/75 ...-TeCB	25.71	C	1.0496	1.0497	+0.2	1.91E+08	0.78	1.25	144	3.11E+03	0.0242
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	4.30E+07	0.78	0.82	49.6	3.11E+03	0.037
PCB-41 22'34-TeCB	26.21		1.0698	1.0701	+0.5	3.77E+07	0.77	0.76	46.7	3.11E+03	0.0398
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	9.63E+07	0.80	0.92	99.3	3.11E+03	0.0331
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	6.81E+07	0.79	1.33	48.4	3.11E+03	0.0228
PCB-72 23'55'-TeCB	27.22		0.8436	0.8432	-0.7	6.46E+07	0.80	1.26	48.2	1.19E+04	0.0916
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	6.79E+07	0.79	1.35	47.5	1.19E+04	0.0858
PCB-57 233'5-TeCB	27.85		0.8630	0.8627	-0.5	6.38E+07	0.80	1.22	49.4	1.19E+04	0.0949
PCB-58 233'5'-TeCB	28.05		0.8693	0.8690	-0.5	6.37E+07	0.80	1.27	47.2	1.19E+04	0.0908
PCB-67 23'45-TeCB	28.20		0.8741	0.8739	-0.3	6.84E+07	0.80	1.33	48.7	1.19E+04	0.0873
PCB-63 234'5-TeCB	28.43		0.8811	0.8808	-0.5	6.96E+07	0.79	1.40	47	1.19E+04	0.0828
PCB-61/70/74/76 ...-TeCB	28.72	C	0.8902	0.8899	-0.5	2.53E+08	0.80	1.25	191	1.19E+04	0.0928
PCB-66 23'44'-TeCB	29.01		0.8989	0.8987	-0.3	6.16E+07	0.80	1.18	49.3	1.19E+04	0.0982
PCB-55 233'4-TeCB	29.15		0.9034	0.9032	-0.3	5.95E+07	0.79	1.18	47.5	1.19E+04	0.098
PCB-56 233'4'-TeCB	29.59		0.9169	0.9167	-0.4	5.97E+07	0.80	1.17	48.3	1.19E+04	0.0993
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	6.12E+07	0.79	1.20	48.1	1.19E+04	0.0964
PCB-80 33'55'-TeCB	30.10		0.9329	0.9327	-0.4	7.05E+07	0.80	1.38	48.4	1.19E+04	0.0841
PCB-79 33'45'-TeCB	31.43		0.9737	0.9737	0	7.03E+07	0.79	1.37	48.4	1.19E+04	0.0844
PCB-78 33'45-TeCB	31.92		0.9889	0.9889	0	5.82E+07	0.78	1.15	47.9	1.19E+04	0.101
PCB-104 22'466'-PeCB	25.38		1.0009	1.0009	0	4.89E+07	0.63	1.43	46.6	1.69E+03	0.0163
PCB-96 22'366'-PeCB	25.70		1.0134	1.0134	0	4.31E+07	0.64	1.18	49.7	1.69E+03	0.0198
PCB-103 22'45'6-PeCB	27.39		0.8989	0.8987	-0.3	4.09E+07	0.61	0.93	49.2	4.97E+03	0.0619
PCB-94 22'356'-PeCB	27.58		0.9051	0.9050	-0.2	3.52E+07	0.61	0.79	50.1	4.97E+03	0.0732

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9175	-0.2	3.75E+07	0.62	0.86	48.9	4.97E+03	0.067
PCB-100/93 22'44'6/22'356-PeCB	28.17	C	0.9246	0.9244	-0.3	7.31E+07	0.61	0.86	95.6	4.97E+03	0.0673
PCB-102 22'456'-PeCB	28.28		0.9282	0.9280	-0.3	4.27E+07	0.63	1.00	47.9	4.97E+03	0.0577
PCB-98 22'34'6'-PeCB	28.35		0.9305	0.9303	-0.3	3.59E+07	0.62	0.74	54.7	4.97E+03	0.0783
PCB-88 22'346-PeCB	28.65		0.9403	0.9401	-0.3	2.98E+07	0.61	0.78	43.1	4.97E+03	0.0743
PCB-91 22'34'6-PeCB	28.72		0.9424	0.9422	-0.3	4.49E+07	0.62	0.92	54.8	4.97E+03	0.0627
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	3.18E+07	0.62	0.71	50	4.97E+03	0.081
PCB-89 22'346'-PeCB	29.33		0.9624	0.9624	0	3.33E+07	0.61	0.76	49.3	4.97E+03	0.0762
PCB-121 23'45'6-PeCB	29.67		0.9736	0.9736	0	5.34E+07	0.63	1.20	50.1	4.97E+03	0.0483
PCB-92 22'355'-PeCB	29.99		0.9841	0.9840	-0.2	3.64E+07	0.61	0.81	50.4	4.97E+03	0.0712
PCB-113/90/101 ...-PeCB	30.47	C	0.9999	0.9999	0	1.28E+08	0.62	0.96	149	4.97E+03	0.0601
PCB-83 22'33'5-PeCB	30.91		1.0142	1.0142	0	2.97E+07	0.63	0.70	47.9	4.97E+03	0.0829
PCB-99 22'44'5-PeCB	31.01		1.0173	1.0174	+0.2	4.30E+07	0.62	0.90	53.8	4.97E+03	0.0644
PCB-112 233'56-PeCB	31.11		1.0206	1.0208	+0.4	5.04E+07	0.62	1.17	48.5	4.97E+03	0.0495
PCB-108/119/86/97/125...-PeCB	31.45	C	1.0320	1.0321	+0.2	2.56E+08	0.62	0.98	294	4.97E+03	0.0591
PCB-117 234'56-PeCB	31.99		1.0495	1.0496	+0.2	4.93E+07	0.62	1.18	47	4.97E+03	0.0491
PCB-116/85 23456/22'344'-PeCB	32.08	C	1.0525	1.0527	+0.4	8.38E+07	0.62	0.88	108	4.97E+03	0.066
PCB-110 233'4'6-PeCB	32.20	B	1.0561	1.0565	+0.8	4.97E+07	0.62	1.10	50.9	4.97E+03	0.0527
PCB-115 2344'6-PeCB	32.28		1.0590	1.0593	+0.6	4.92E+07	0.63	1.16	47.7	4.97E+03	0.0499
PCB-82 22'33'4-PeCB	32.48		1.0655	1.0657	+0.4	3.08E+07	0.61	0.69	50.2	4.97E+03	0.0839
PCB-111 233'55'-PeCB	32.79		1.0757	1.0759	+0.4	5.32E+07	0.62	1.21	49.6	4.97E+03	0.0479
PCB-120 23'455'-PeCB	33.19		1.0887	1.0890	+0.6	5.37E+07	0.62	1.22	49.3	4.97E+03	0.0472
PCB-107/124 ...-PeCB	34.15	C	0.9916	0.9915	-0.2	9.69E+07	0.62	1.11	98.3	4.97E+03	0.0522
PCB-109 233'46-PeCB	34.36		0.9976	0.9976	0	5.66E+07	0.61	1.24	51.3	4.97E+03	0.0466
PCB-106 233'45-PeCB	34.58		1.0038	1.0040	+0.4	4.72E+07	0.61	1.11	47.9	4.97E+03	0.0521
PCB-122 233'4'5'-PeCB	35.04		1.0091	1.0091	0	4.64E+07	0.62	1.03	49	4.97E+03	0.0552
PCB-127 33'455'-PeCB	36.99		1.0350	1.0351	+0.2	5.02E+07	0.61	1.12	48.4	4.97E+03	0.0497
PCB-155 22'44'66'-HxCB	30.33		1.0007	1.0007	0	5.23E+07	1.27	1.26	48.1	2.05E+03	0.0193
PCB-152 22'3566'-HxCB	30.49		1.0060	1.0061	+0.2	4.97E+07	1.26	1.14	50.7	2.05E+03	0.0214
PCB-150 22'34'66'-HxCB	30.64		1.0107	1.0108	+0.2	5.10E+07	1.27	1.15	51.3	2.05E+03	0.0211
PCB-136 22'33'66'-HxCB	30.94		1.0207	1.0208	+0.2	4.68E+07	1.28	1.06	51.3	2.05E+03	0.023
PCB-145 22'3466'-HxCB	31.21		1.0296	1.0297	+0.2	4.78E+07	1.26	1.09	50.7	2.05E+03	0.0223
PCB-148 22'34'56'-HxCB	32.48		1.0714	1.0717	+0.6	3.59E+07	1.26	1.15	50.3	2.05E+03	0.0298
PCB-151/135 ...-HxCB	33.00	C	1.0886	1.0888	+0.4	6.94E+07	1.25	1.09	102	2.05E+03	0.0313
PCB-154 22'44'56'-HxCB	33.21		1.0954	1.0957	+0.6	4.05E+07	1.26	1.29	50.7	2.05E+03	0.0266
PCB-144 22'345'6-HxCB	33.47		1.1041	1.1044	+0.6	3.56E+07	1.27	1.14	50.4	2.05E+03	0.03
PCB-147/149 ...-HxCB	33.78	C	1.1141	1.1144	+0.6	7.19E+07	1.28	1.11	104	2.05E+03	0.0307
PCB-134 22'33'56-HxCB	33.95		1.1199	1.1202	+0.6	2.72E+07	1.25	0.93	47	2.05E+03	0.0367
PCB-143 22'3456'-HxCB	34.03		1.1225	1.1228	+0.6	3.48E+07	1.27	1.02	54.8	2.05E+03	0.0335
PCB-139/140 ...-HxCB	34.30	C	1.1312	1.1315	+0.6	7.21E+07	1.26	1.13	103	2.05E+03	0.0302
PCB-131 22'33'46-HxCB	34.47		1.1369	1.1373	+0.8	3.11E+07	1.25	0.98	51.3	2.05E+03	0.0351
PCB-142 22'3456-HxCB	34.61		1.1416	1.1421	+1.0	3.00E+07	1.26	0.95	50.9	2.05E+03	0.036
PCB-132 22'33'46'-HxCB	34.85		1.1494	1.1498	+0.8	3.18E+07	1.28	0.99	51.7	2.05E+03	0.0345
PCB-133 22'33'55'-HxCB	35.25		1.1626	1.1631	+1.1	3.33E+07	1.26	1.05	51.1	2.05E+03	0.0326
PCB-165 233'55'6-HxCB	35.59		0.9525	0.9524	-0.2	4.37E+07	1.26	1.35	52	2.05E+03	0.0253
PCB-146 22'34'55'-HxCB	35.81		0.9582	0.9581	-0.2	3.80E+07	1.26	1.15	53.1	2.05E+03	0.0297
PCB-161 233'45'6-HxCB	35.93		0.9613	0.9613	0	4.56E+07	1.27	1.47	49.8	2.05E+03	0.0232
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9727	-0.2	8.85E+07	1.27	1.42	101	2.05E+03	0.0241

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PCB-141 22'3455'-HxCB	36.50		0.9766	0.9765	-0.2	3.36E+07	1.26	1.04	52.1	2.05E+03	0.0329
PCB-130 22'33'45'-HxCB	36.84		0.9859	0.9859	0	2.96E+07	1.28	0.92	51.8	2.05E+03	0.0372
PCB-137 22'344'5'-HxCB	37.04		0.9911	0.9912	+0.2	3.77E+07	1.29	1.11	54.4	2.05E+03	0.0307
PCB-164 233'4'5'6'-HxCB	37.13		0.9933	0.9934	+0.2	4.42E+07	1.29	1.43	49.9	2.05E+03	0.024
PCB-163/138/129 ...-HxCB	37.42	C	1.0011	1.0011	0	1.10E+08	1.28	1.15	155	2.05E+03	0.0298
PCB-160 233'456-HxCB	37.55		1.0048	1.0049	+0.2	4.25E+07	1.27	1.39	49.2	2.05E+03	0.0246
PCB-158 233'44'6'-HxCB	37.73		1.0096	1.0096	0	4.93E+07	1.26	1.53	51.8	2.05E+03	0.0223
PCB-128/166 ...-HxCB	38.47	C	0.9641	0.9640	-0.2	7.46E+07	1.23	0.90	97.7	8.30E+03	0.113
PCB-159 233'455'-HxCB	39.28		0.9844	0.9843	-0.2	4.49E+07	1.23	1.10	48.3	8.30E+03	0.0926
PCB-162 233'4'55'-HxCB	39.52		0.9903	0.9903	0	4.50E+07	1.21	1.10	48.3	8.30E+03	0.0923
PCB-188 22'34'566'-HpCB	35.21		1.0006	1.0006	0	3.69E+07	1.07	1.27	46.4	1.54E+03	0.0202
PCB-179 22'33'566'-HpCB	35.49		1.0086	1.0087	+0.2	3.77E+07	1.06	1.13	53.3	1.54E+03	0.0227
PCB-184 22'344'66'-HpCB	35.95		1.0216	1.0217	+0.2	3.36E+07	1.05	1.06	50.7	1.54E+03	0.0243
PCB-176 22'33'466'-HpCB	36.24		1.0300	1.0301	+0.2	3.78E+07	1.06	1.15	52.6	1.54E+03	0.0224
PCB-186 22'34566'-HpCB	36.64		1.0413	1.0415	+0.4	3.46E+07	1.07	1.07	51.5	1.54E+03	0.0239
PCB-178 22'33'55'6'-HpCB	37.77		1.0733	1.0735	+0.5	2.48E+07	1.06	0.77	51.2	1.54E+03	0.0331
PCB-175 22'33'45'6'-HpCB	38.31		1.0887	1.0889	+0.5	3.51E+07	1.05	1.07	54.5	8.99E+03	0.15
PCB-187 22'34'55'6'-HpCB	38.54		1.0952	1.0954	+0.5	3.50E+07	1.05	1.15	50.6	8.99E+03	0.14
PCB-182 22'344'56'-HpCB	38.72		1.1002	1.1005	+0.7	3.53E+07	1.05	1.18	49.9	8.99E+03	0.137
PCB-183 22'344'5'6'-HpCB	39.07		1.1101	1.1103	+0.5	3.73E+07	1.06	1.20	52.1	8.99E+03	0.135
PCB-185 22'3455'6'-HpCB	39.15		1.1125	1.1127	+0.5	3.06E+07	1.04	1.10	46.1	8.99E+03	0.146
PCB-174 22'33'456'-HpCB	39.26		1.1156	1.1158	+0.5	2.97E+07	1.06	0.94	53	8.99E+03	0.172
PCB-177 22'33'45'6'-HpCB	39.64		1.1262	1.1265	+0.7	2.86E+07	1.06	0.92	51.6	8.99E+03	0.174
PCB-181 22'344'56'-HpCB	39.98		1.1361	1.1364	+0.7	3.19E+07	1.04	1.07	49.6	8.99E+03	0.15
PCB-171/173 ...-HpCB	40.17	C	1.1413	1.1416	+0.7	5.66E+07	1.05	0.94	101	8.99E+03	0.171
PCB-172 22'33'455'-HpCB	41.51		0.9080	0.9079	-0.2	2.95E+07	1.04	0.98	50.3	8.99E+03	0.164
PCB-192 233'455'6'-HpCB	41.76		0.9134	0.9133	-0.3	3.83E+07	1.05	1.29	49.6	8.99E+03	0.125
PCB-180/193 ...-HpCB	42.04	C	0.9194	0.9193	-0.3	7.57E+07	1.04	1.24	101	8.99E+03	0.129
PCB-191 233'44'5'6'-HpCB	42.37		0.9266	0.9265	-0.3	4.12E+07	1.06	1.38	49.7	8.99E+03	0.116
PCB-170 22'33'44'5'-HpCB	43.14		0.9434	0.9434	0	2.96E+07	1.04	1.13	51.6	8.99E+03	0.165
PCB-190 233'44'56'-HpCB	43.59		0.9533	0.9532	-0.3	4.40E+07	1.04	1.60	54.6	8.99E+03	0.117
PCB-202 22'33'55'66'-OoCB	39.74		1.0005	1.0005	0	3.12E+07	0.90	1.05	48.9	1.76E+03	0.0286
PCB-201 22'33'45'66'-OoCB	40.53		1.0203	1.0203	0	3.56E+07	0.90	1.14	51.5	1.76E+03	0.0264
PCB-204 22'344'566'-OoCB	41.10		1.0348	1.0348	0	3.35E+07	0.91	1.07	51.6	1.76E+03	0.0281
PCB-197 22'33'44'66'-OoCB	41.29		1.0396	1.0395	-0.2	3.53E+07	0.91	1.10	53	1.76E+03	0.0274
PCB-200 22'33'4566'-OoCB	41.38		1.0418	1.0419	+0.2	3.30E+07	0.90	1.08	50.3	1.76E+03	0.0278
PCB-198/199 ...-OoCB	43.70	C	1.1001	1.1003	+0.5	4.81E+07	0.90	0.74	107	1.76E+03	0.0406
PCB-196 22'33'44'56'-OoCB	44.28		1.1146	1.1148	+0.5	2.51E+07	0.91	0.80	52.3	1.76E+03	0.0379
PCB-203 22'344'55'6'-OoCB	44.45		1.1188	1.1190	+0.5	2.58E+07	0.91	0.83	51.1	1.76E+03	0.0362
PCB-195 22'33'44'56'-OoCB	45.57		0.9516	0.9515	-0.3	2.23E+07	0.92	0.72	51.8	4.21E+03	0.101
PCB-194 22'33'44'55'-OoCB	47.51		0.9921	0.9921	0	2.52E+07	0.91	0.81	52.6	4.21E+03	0.0909
PCB-205 233'44'55'6'-OoCB	47.91		1.0004	1.0004	0	3.10E+07	0.91	1.06	49	4.21E+03	0.0691
PCB-208 22'33'455'66'-NoCB	45.36		1.0005	1.0005	0	3.51E+07	0.78	1.12	49.6	4.97E+03	0.0735
PCB-207 22'33'44'566'-NoCB	46.15		1.0178	1.0178	0	3.79E+07	0.78	1.18	51.2	4.97E+03	0.0703
PCB-206 22'33'44'55'6'-NoCB	49.37		1.0004	1.0004	0	2.38E+07	0.78	1.11	49.9	4.97E+03	0.108

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	112	50 - 150	Y
PCB-3 4-MoCB	50	113	50 - 150	Y
PCB-4 22'-DiCB	50	94.1	50 - 150	Y
PCB-15 44'-DiCB	50	104	50 - 150	Y
PCB-19 22'6'-TrCB	50	96.8	50 - 150	Y
PCB-37 344'-TrCB	50	112	50 - 150	Y
PCB-54 22'66'-TeCB	50	94	50 - 150	Y
PCB-77 33'44'-TeCB	50	102	50 - 150	Y
PCB-81 344'5'-TeCB	50	105	50 - 150	Y
PCB-104 22'466'-PeCB	50	93.3	50 - 150	Y
PCB-105 233'44'-PeCB	50	97.6	50 - 150	Y
PCB-114 2344'5'-PeCB	50	99.2	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	97.6	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	98.8	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	105	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	96.2	50 - 150	Y
PCB-156/157 ...-HxCB	100	98.9	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	97.5	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	95.8	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	92.8	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	102	50 - 150	Y
PCB-202 22'33'55'66'-OxCB	50	97.9	50 - 150	Y
PCB-205 233'44'55'6-OxCB	50	98.1	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	99.7	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	99.2	50 - 150	Y
PCB-209 DeCB	50	96.9	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 04 Apr 2014 09:49

Analyst: ds

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	86.7	15	-	140	Y
ES PCB-3	100	89.1	15	-	140	Y
ES PCB-4	100	110	30	-	140	Y
ES PCB-15	100	107	30	-	140	Y
ES PCB-19	100	108	30	-	140	Y
ES PCB-37	100	96	30	-	140	Y
ES PCB-54	100	119	30	-	140	Y
ES PCB-77	100	100	30	-	140	Y
ES PCB-81	100	98.9	30	-	140	Y
ES PCB-104	100	129	30	-	140	Y
ES PCB-105	100	109	30	-	140	Y
ES PCB-114	100	106	30	-	140	Y
ES PCB-118	100	109	30	-	140	Y
ES PCB-123	100	106	30	-	140	Y
ES PCB-126	100	117	30	-	140	Y
ES PCB-153	100	98.4	30	-	140	Y
ES PCB-155	100	97	30	-	140	Y
ES PCB-156/157	200	90.4	30	-	140	Y
ES PCB-167	100	90.6	30	-	140	Y
ES PCB-169	100	97.7	30	-	140	Y
ES PCB-170	100	100	30	-	140	Y
ES PCB-180	100	102	30	-	140	Y
ES PCB-188	100	119	30	-	140	Y
ES PCB-189	100	102	30	-	140	Y
ES PCB-202	100	111	30	-	140	Y
ES PCB-205	100	99.2	30	-	140	Y
ES PCB-206	100	107	30	-	140	Y
ES PCB-208	100	111	30	-	140	Y
ES PCB-209	100	102	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	98.8	40	-	125	Y
CS PCB-111	100	112	40	-	125	Y
CS PCB-178	100	129	40	-	125	N

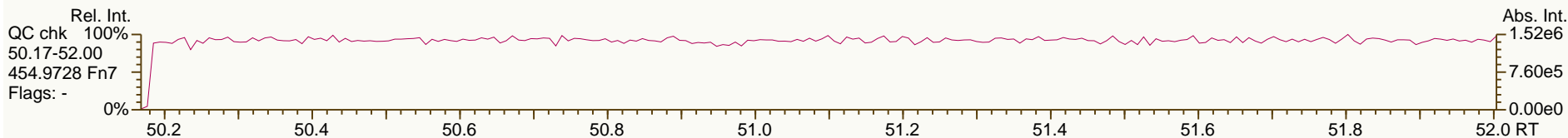
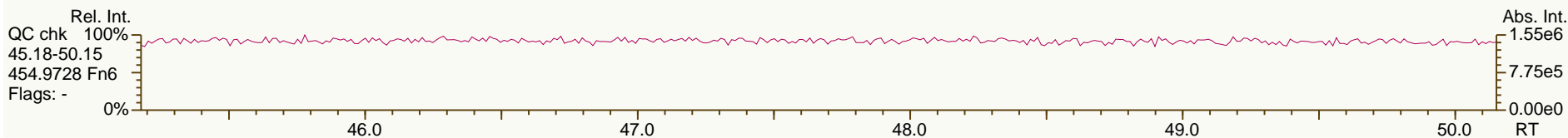
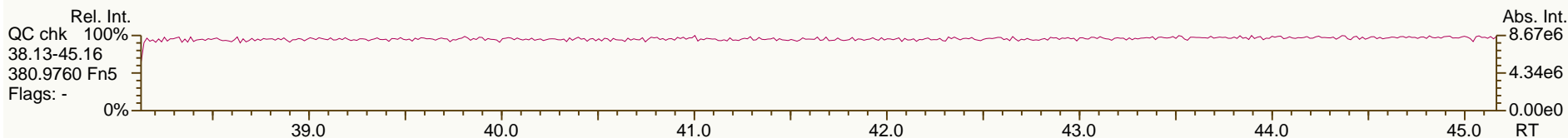
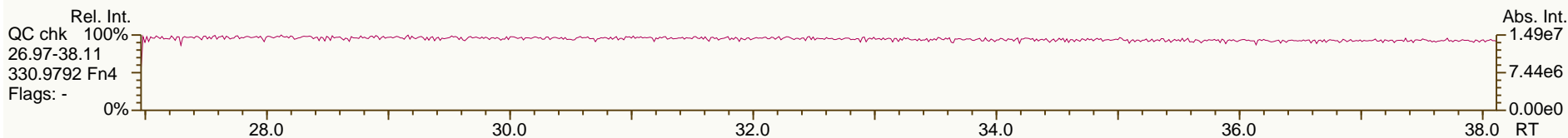
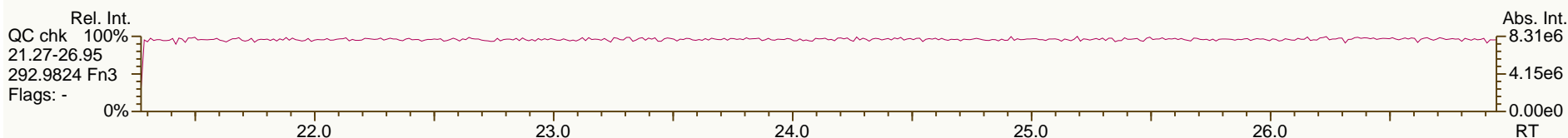
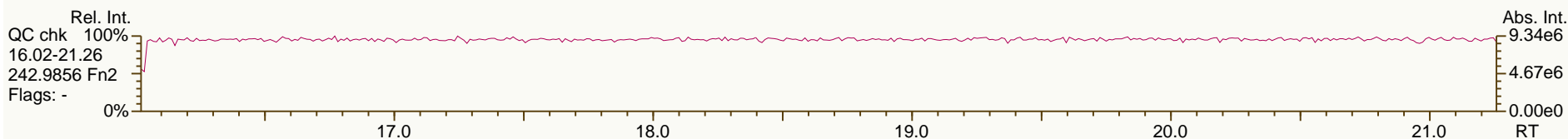
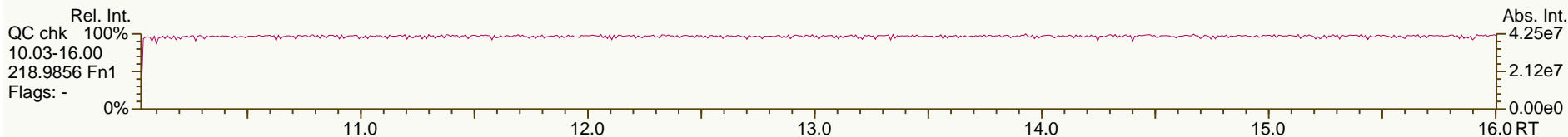
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SGS ID: OPR1\_11903\_PCB-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

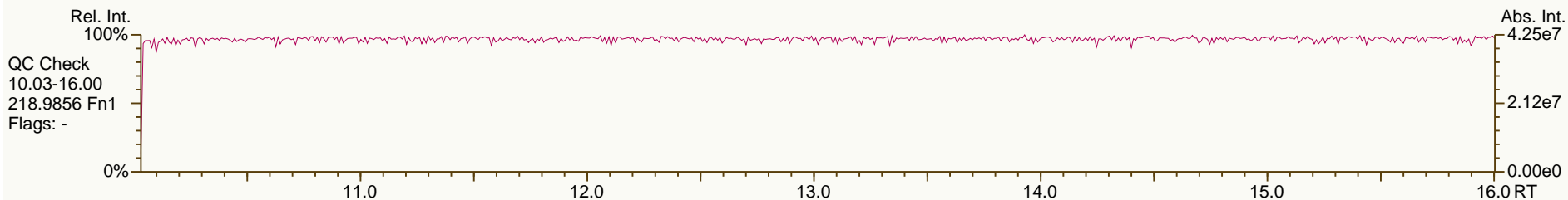
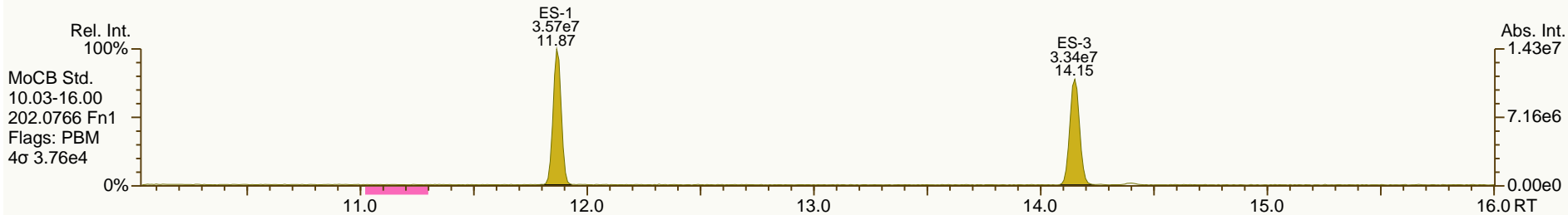
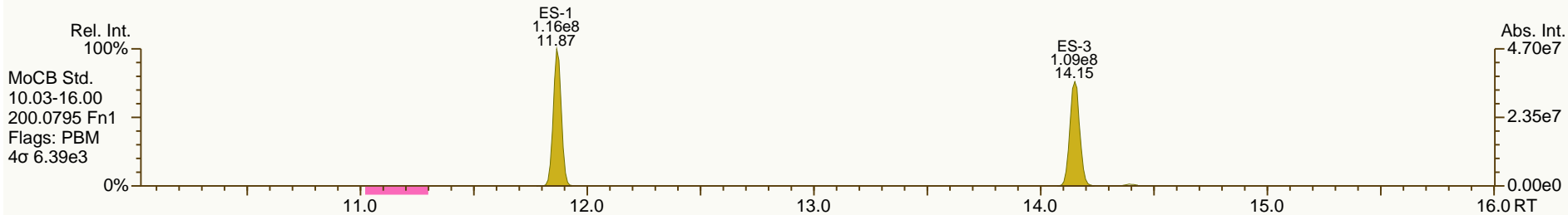
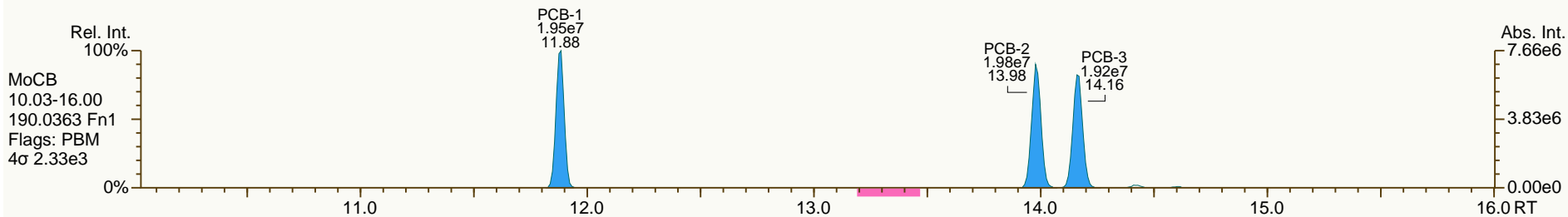
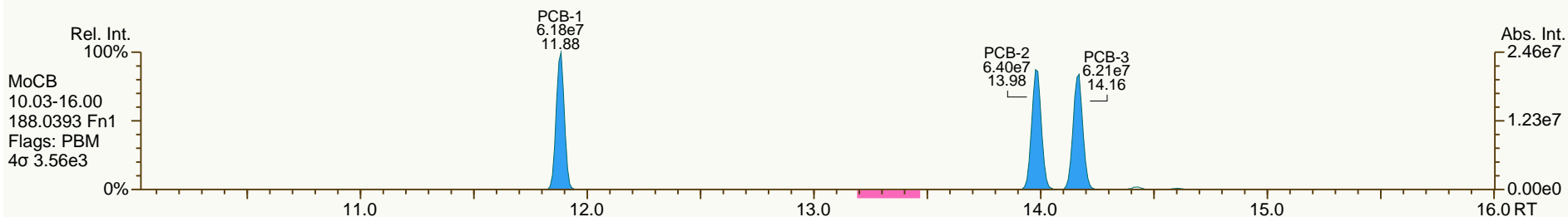
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SGS ID: OPR1\_11903\_PCB-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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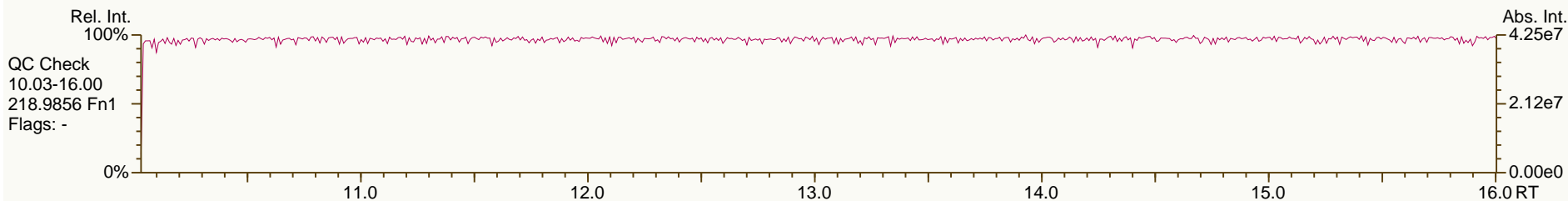
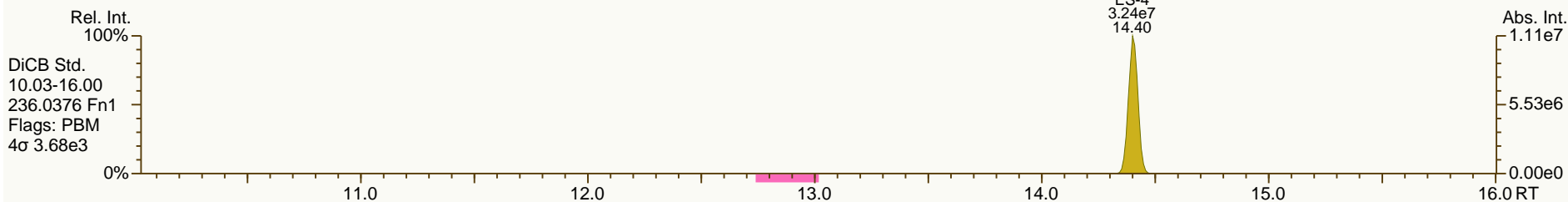
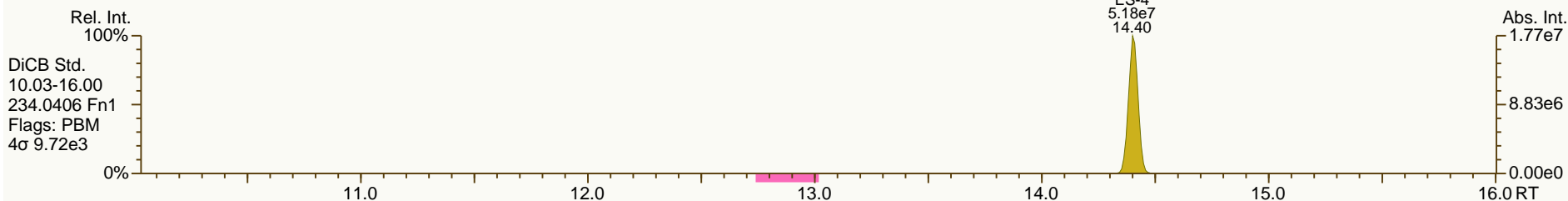
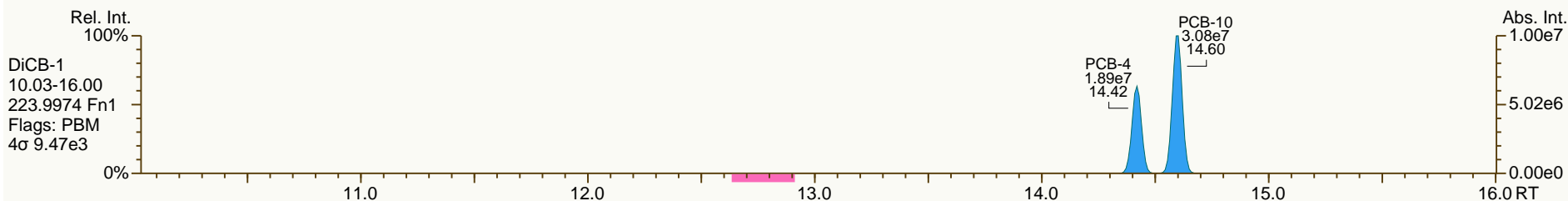
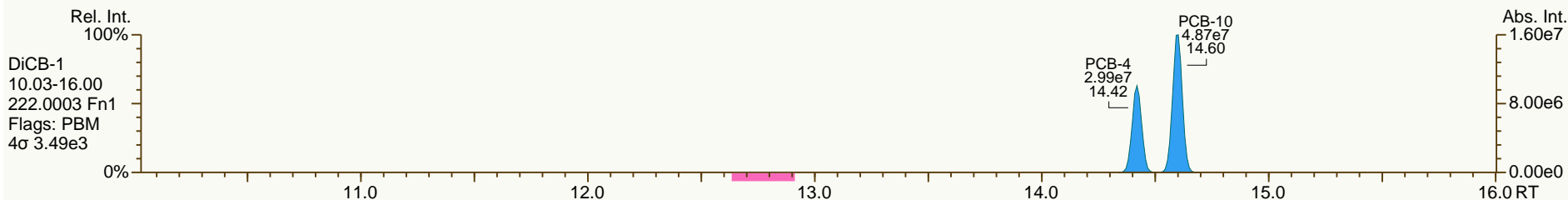
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SGS ID: OPR1\_11903\_PCB-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

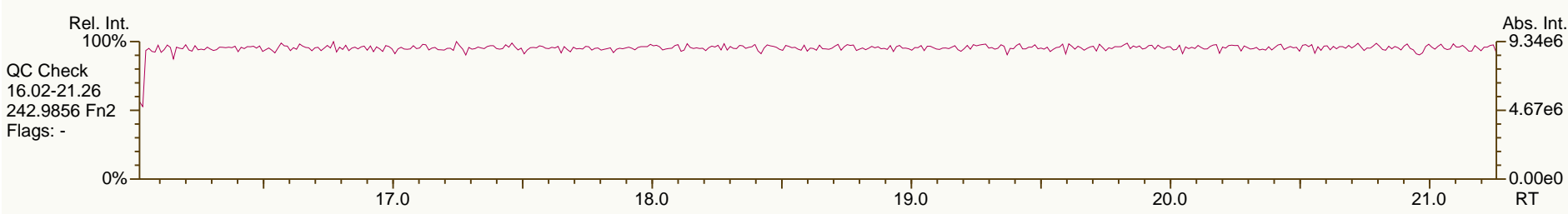
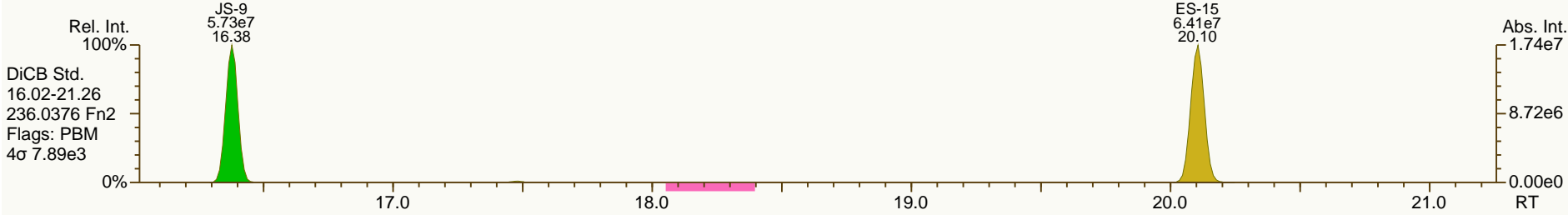
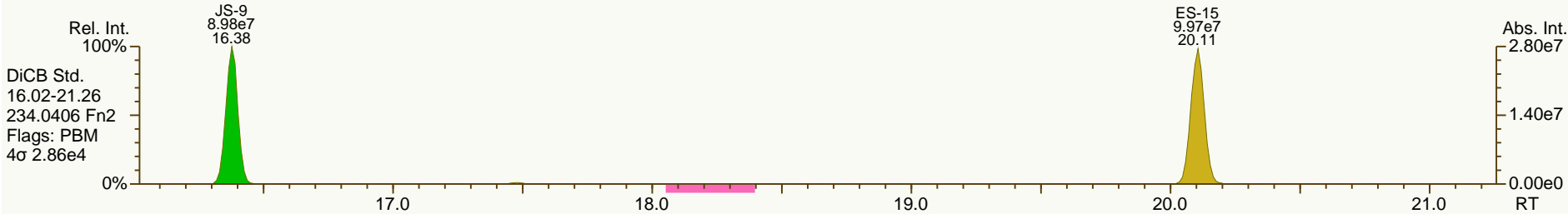
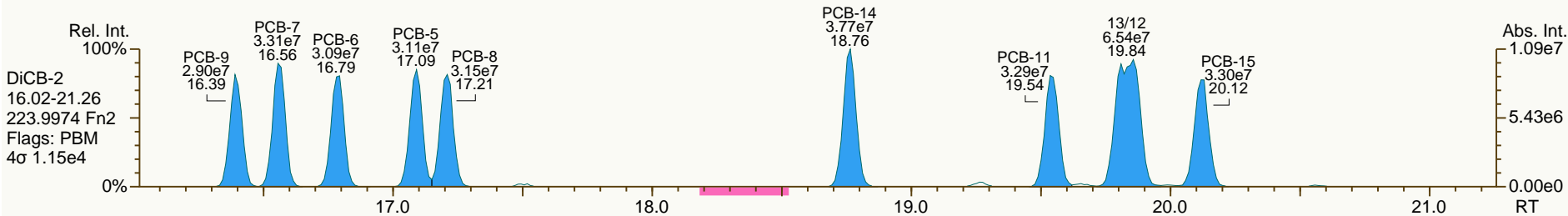
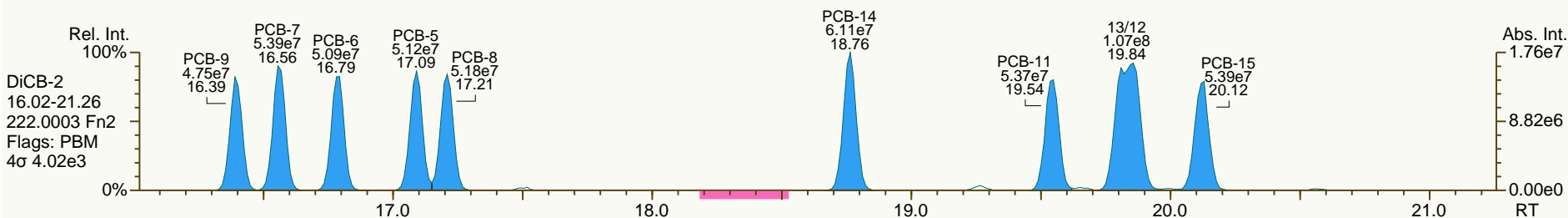
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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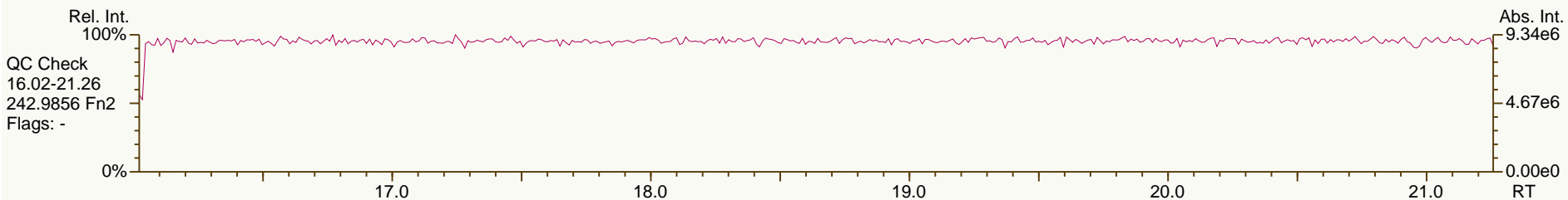
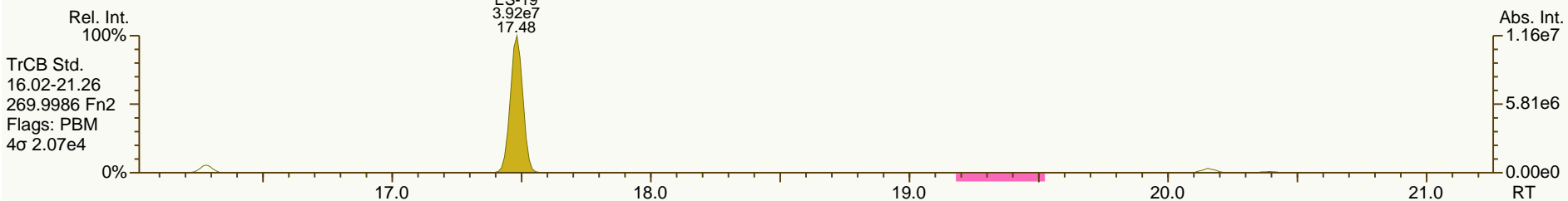
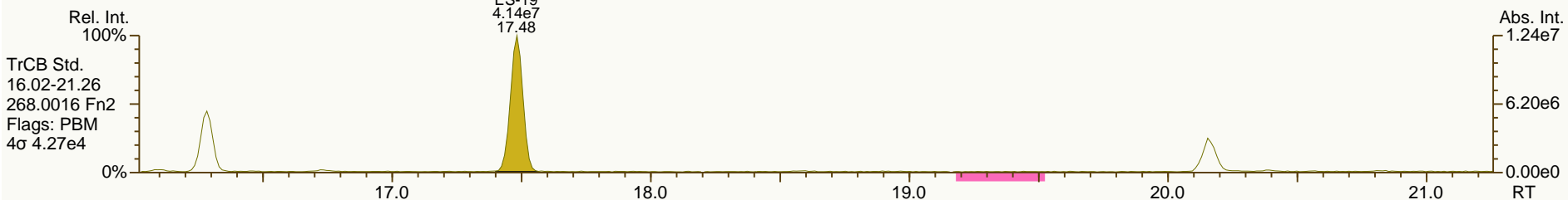
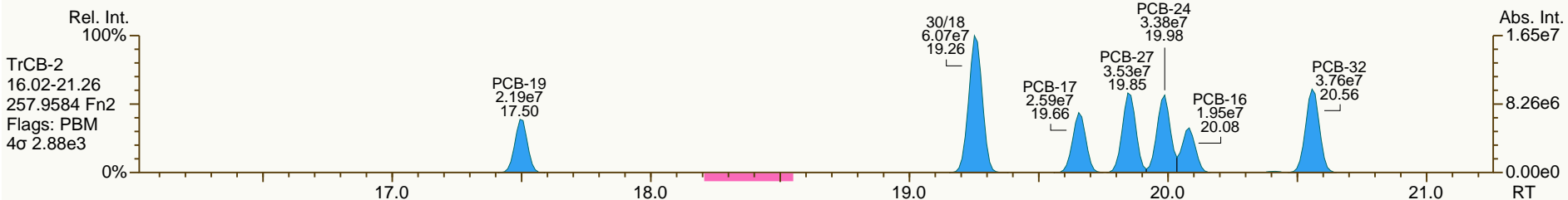
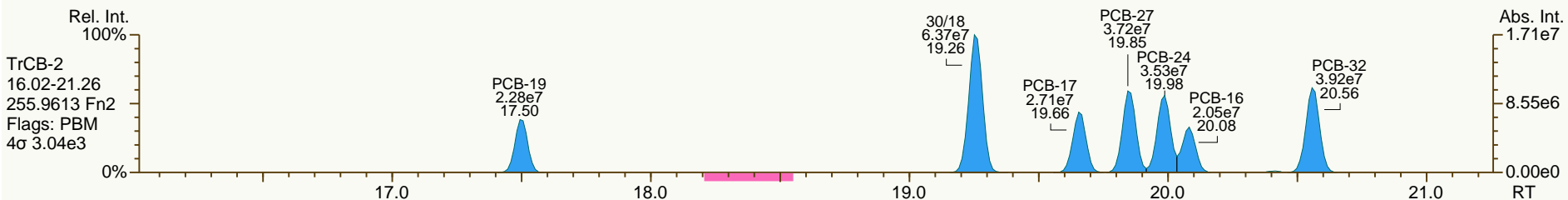
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SGS ID: OPR1\_11903\_PCB-RJ2  
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Sample ID: 0\_11903\_OPR001  
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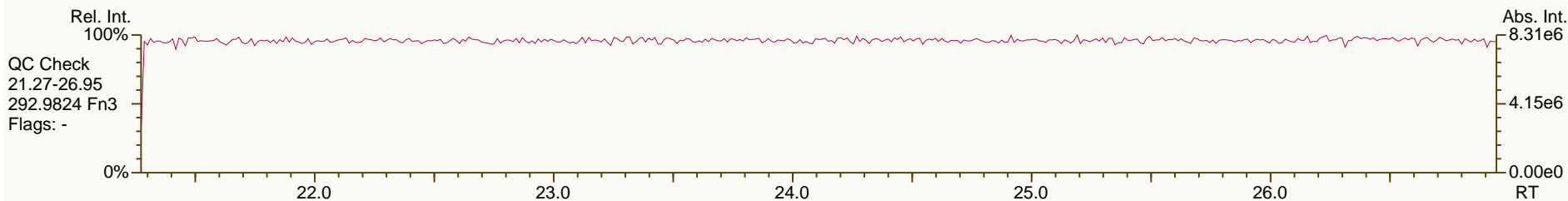
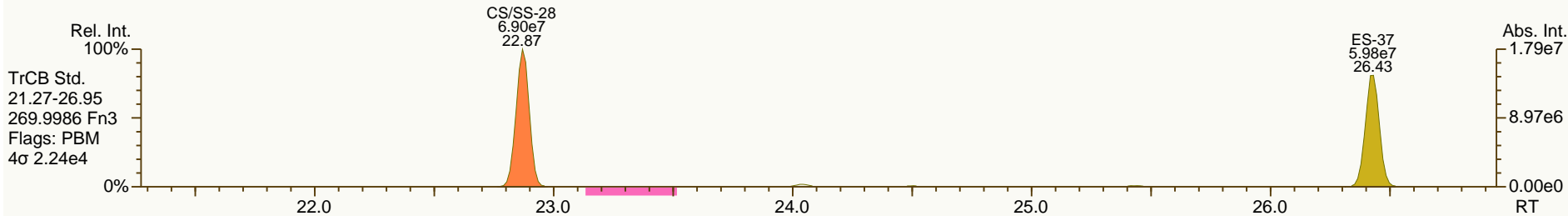
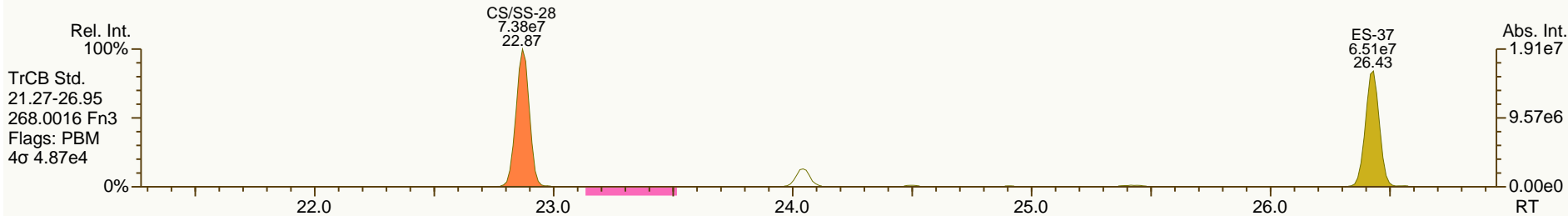
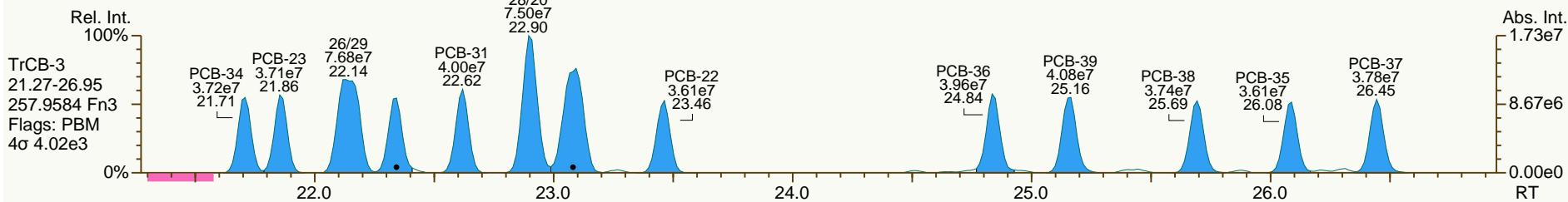
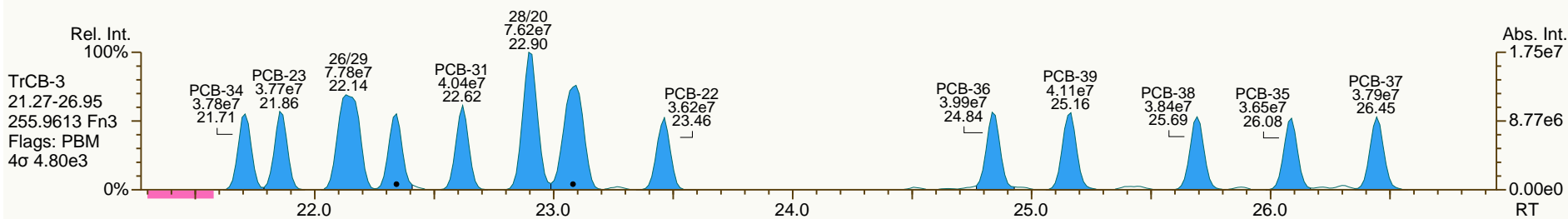
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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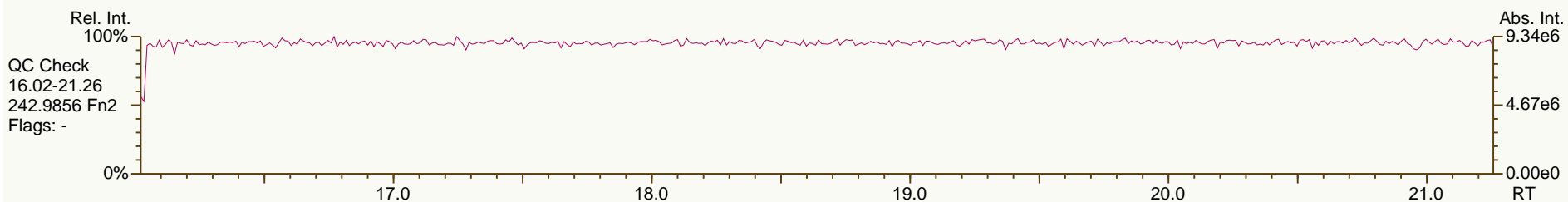
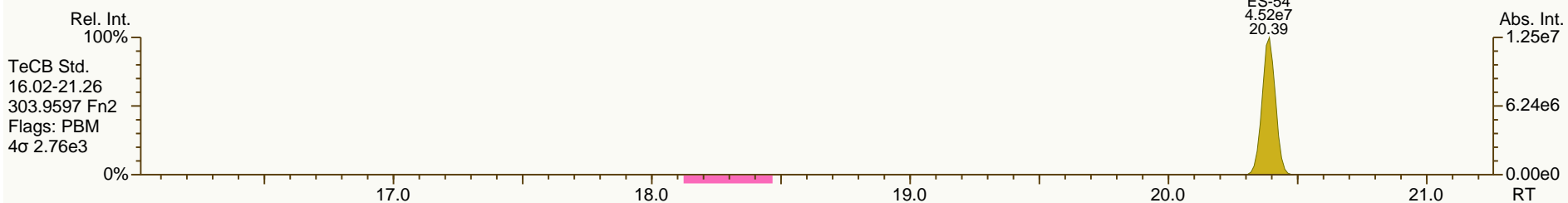
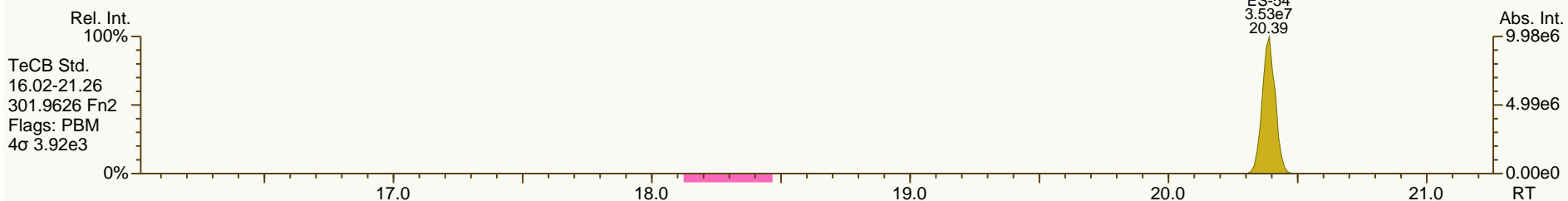
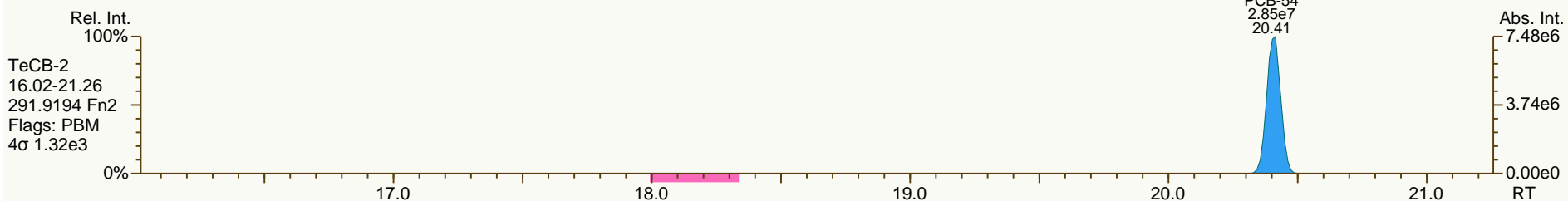
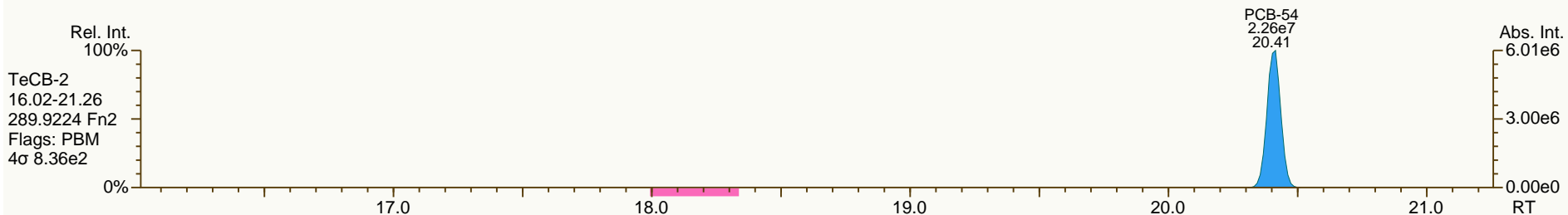
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

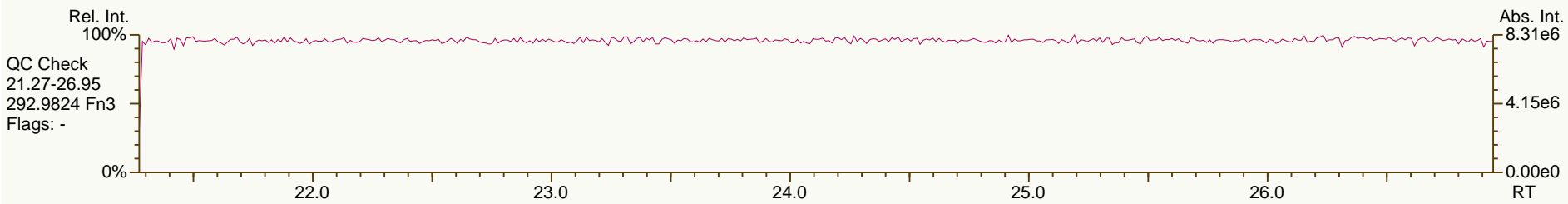
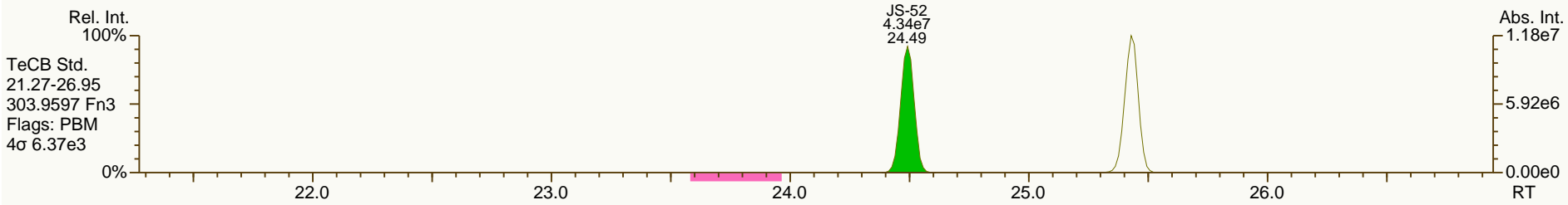
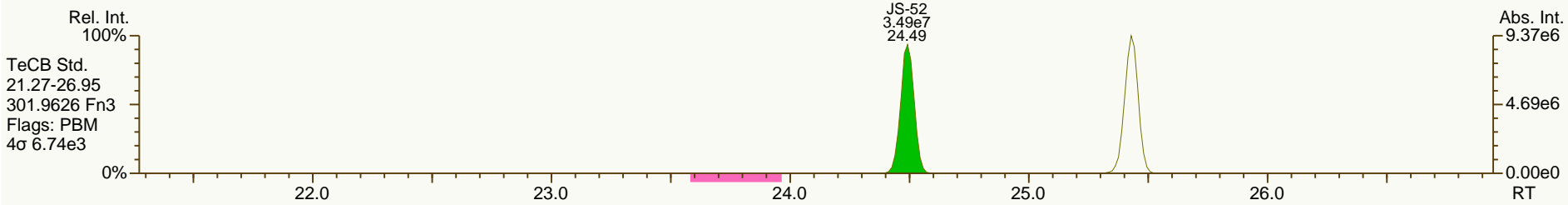
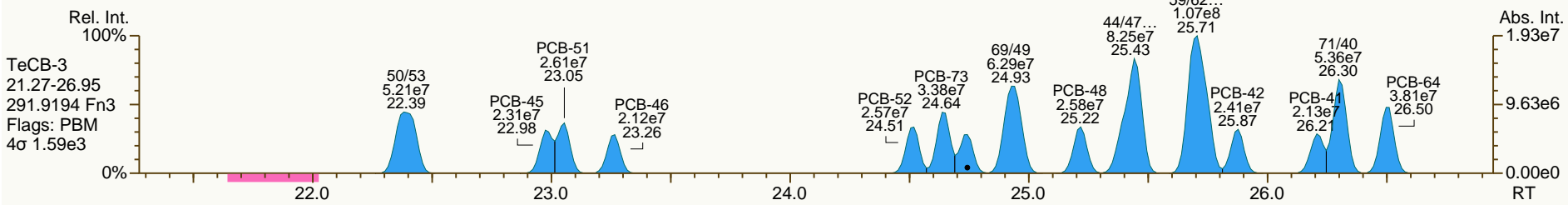
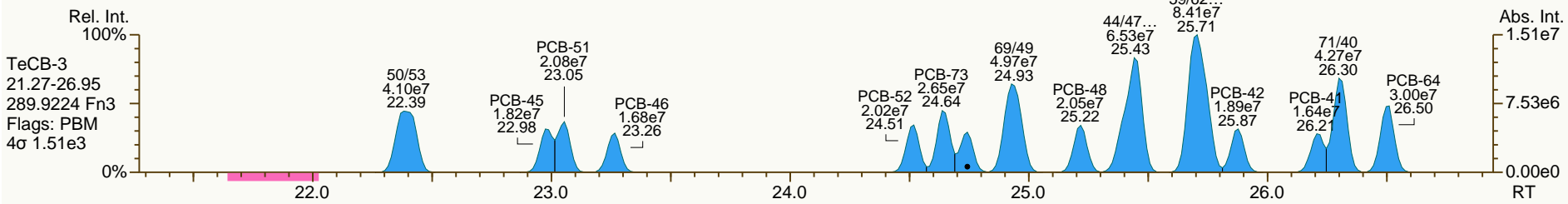
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

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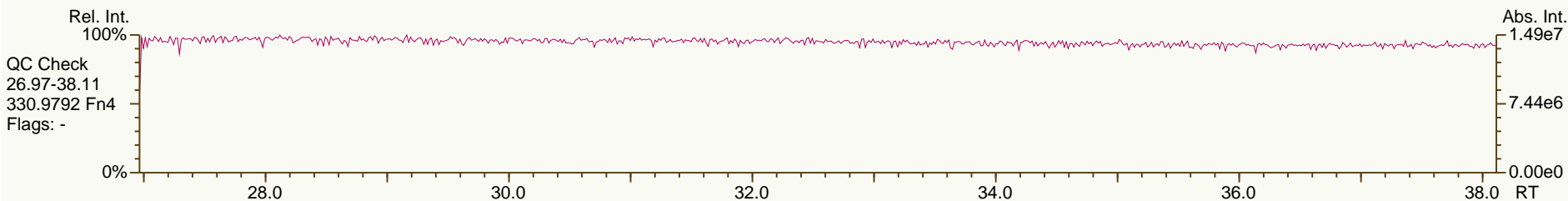
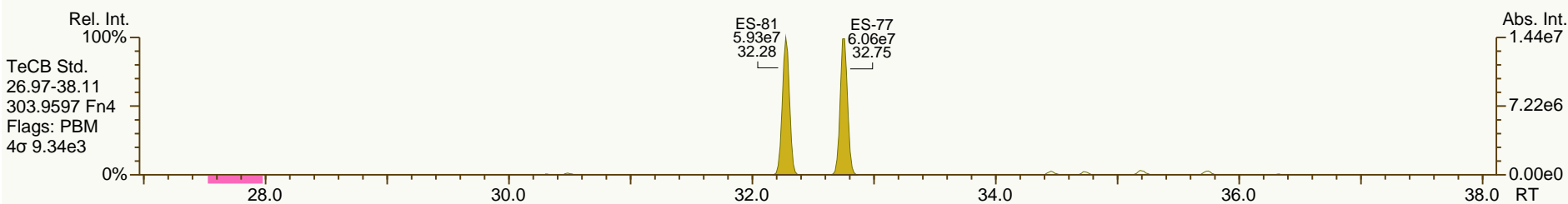
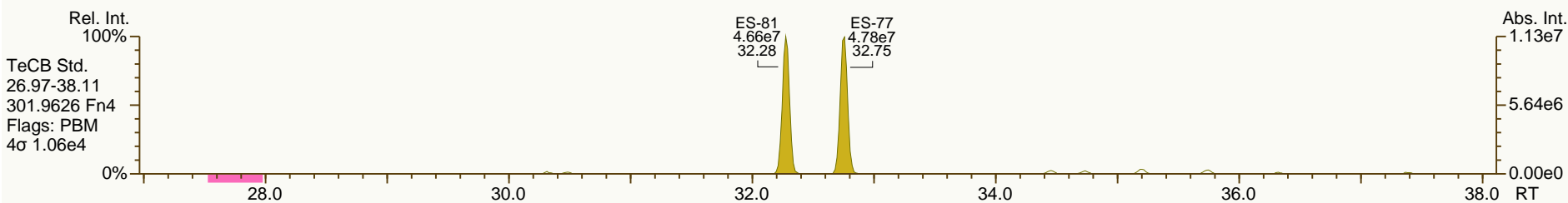
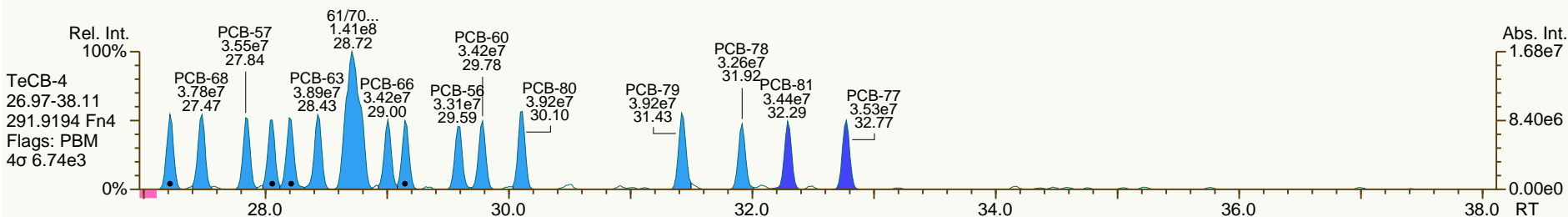
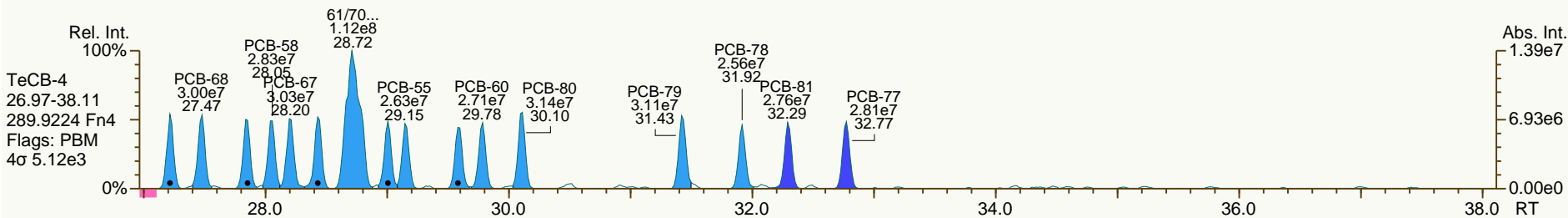




SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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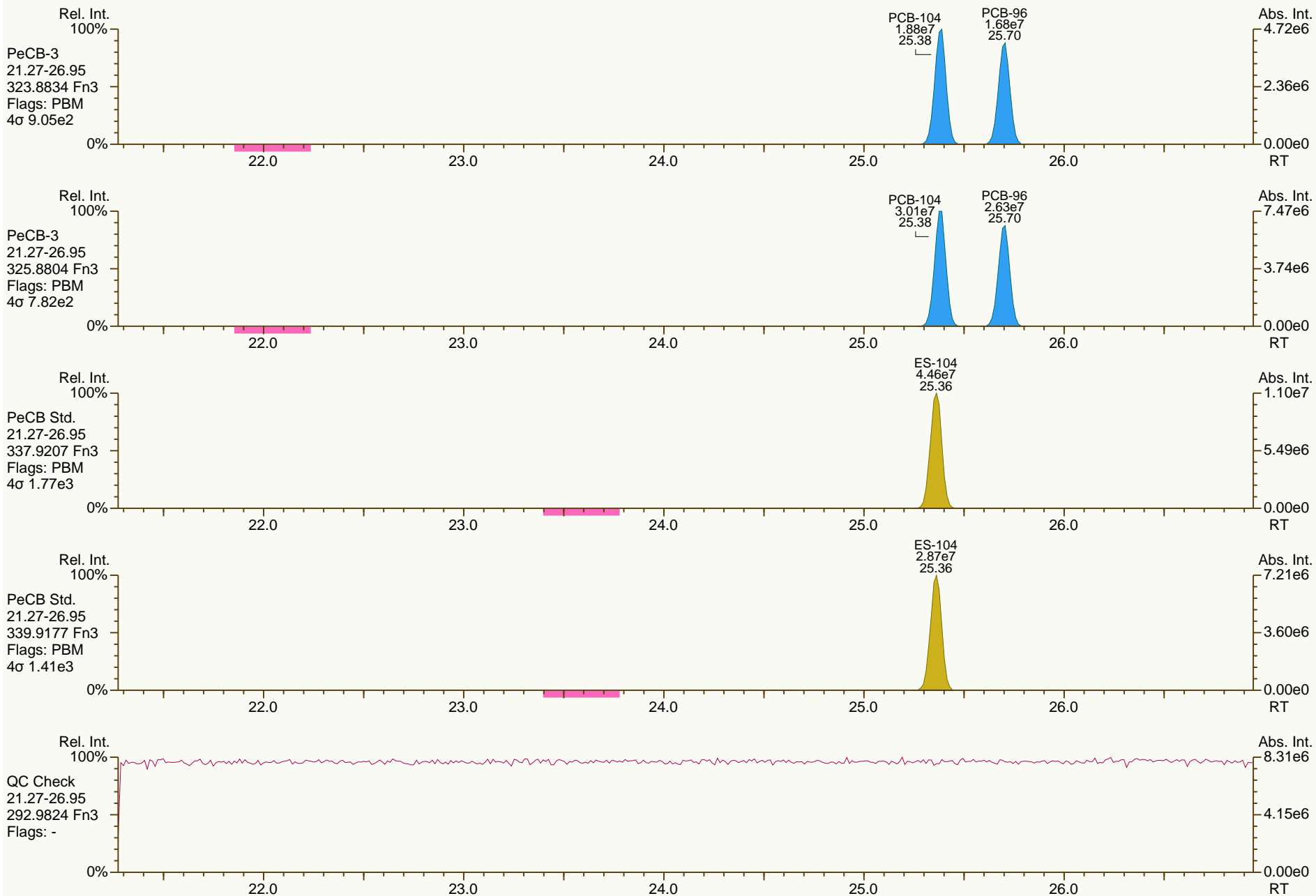
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SGS ID: OPR1\_11903\_PCB-RJ2  
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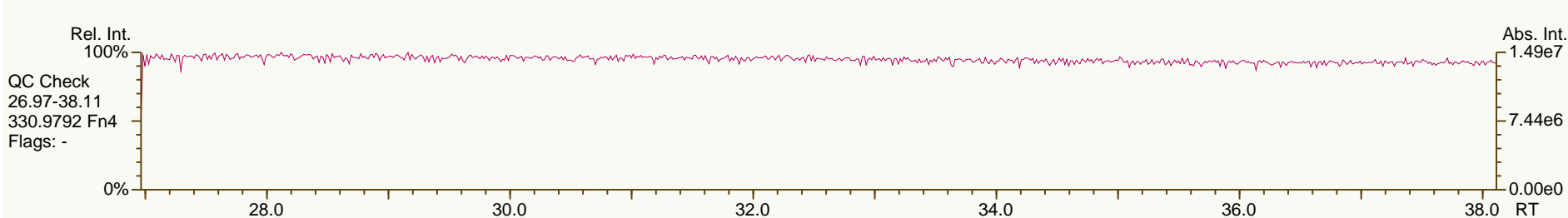
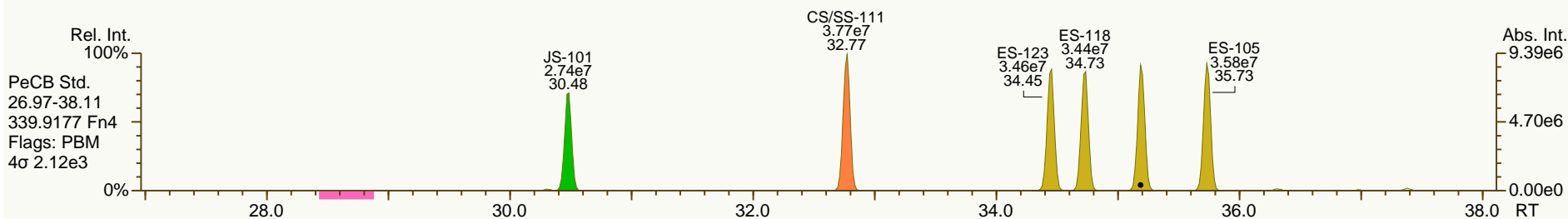
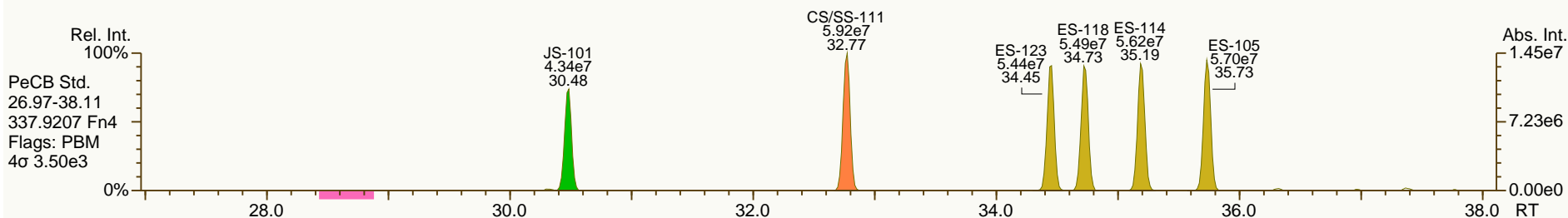
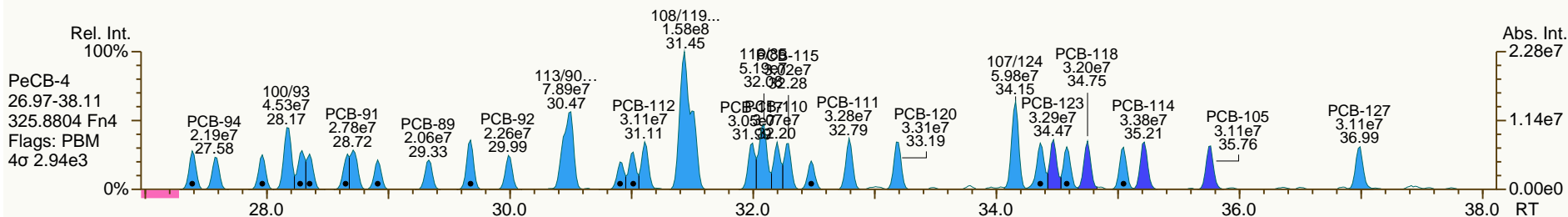
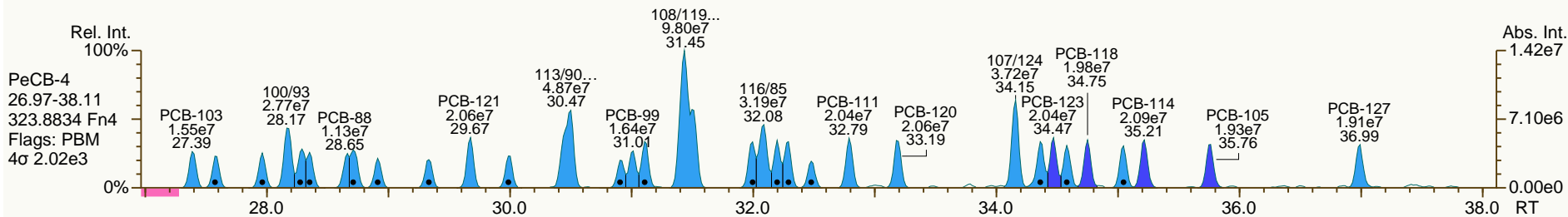
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

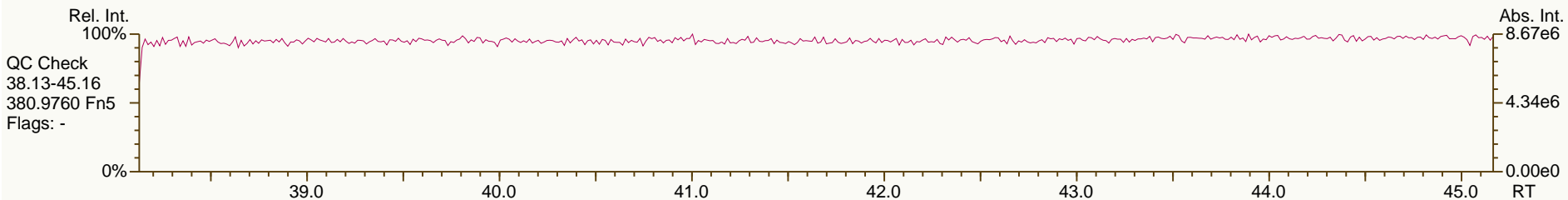
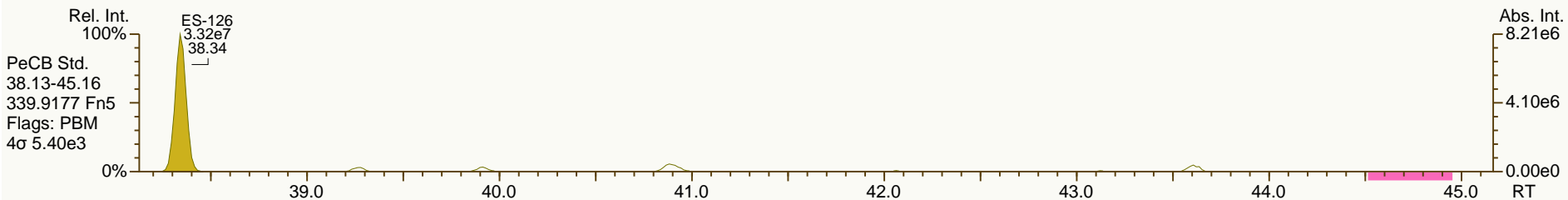
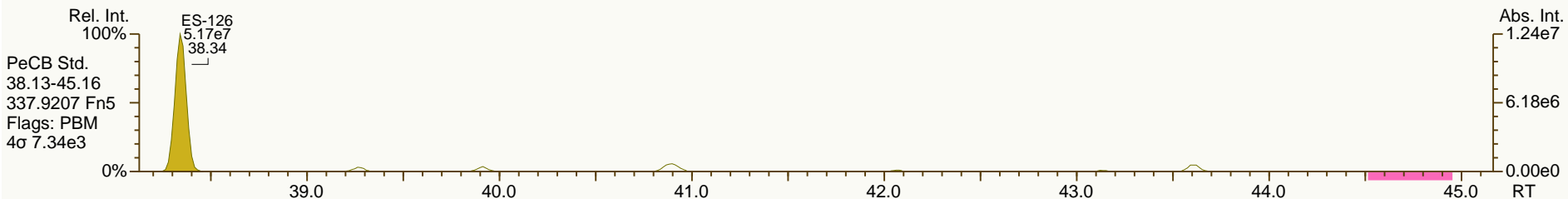
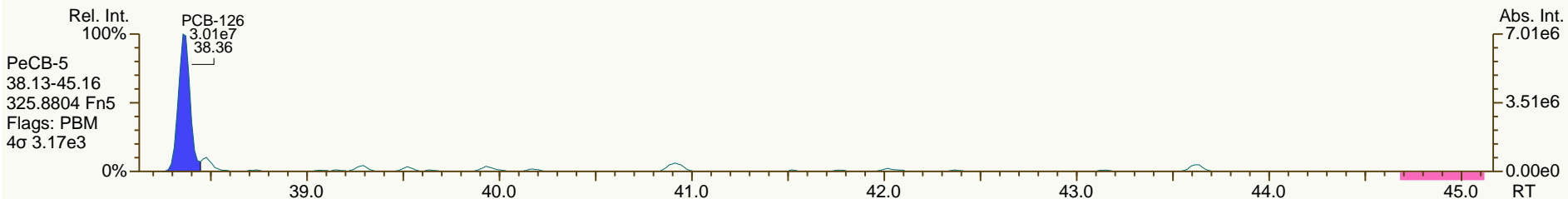
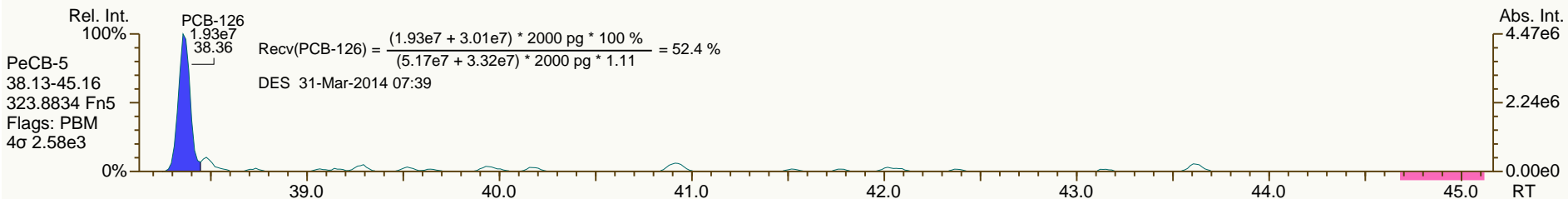
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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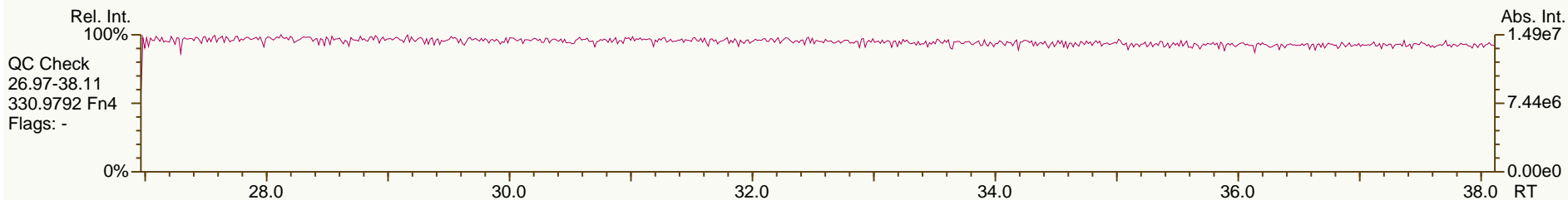
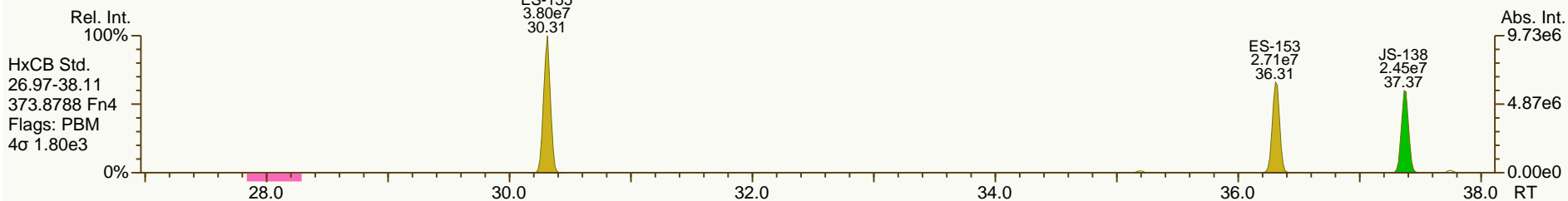
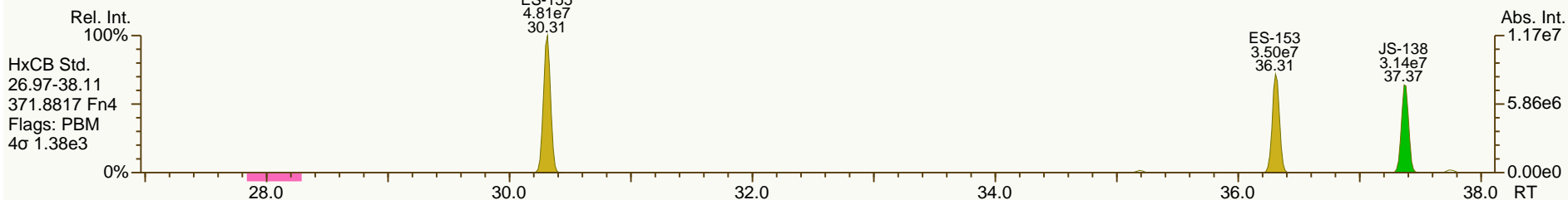
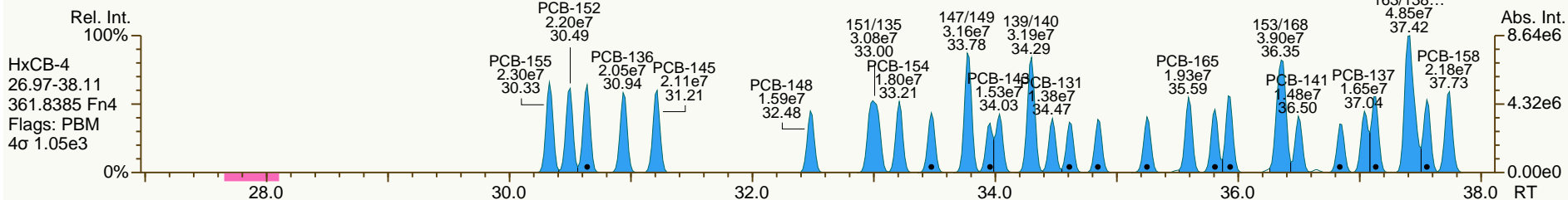
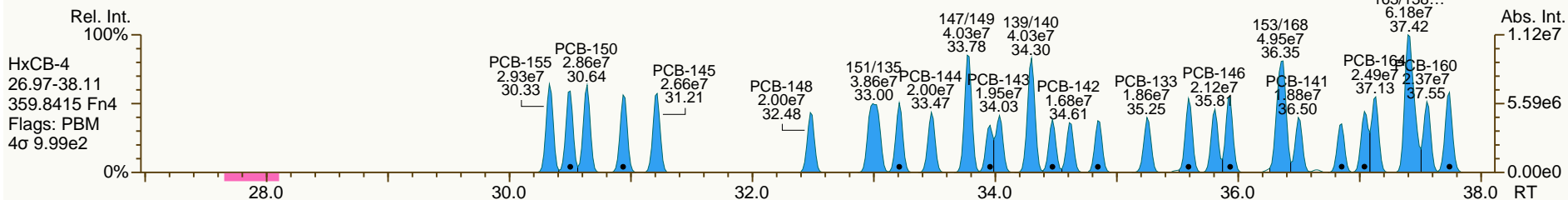
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SGS ID: OPR1\_11903\_PCB-RJ2  
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Sample ID: 0\_11903\_OPR001  
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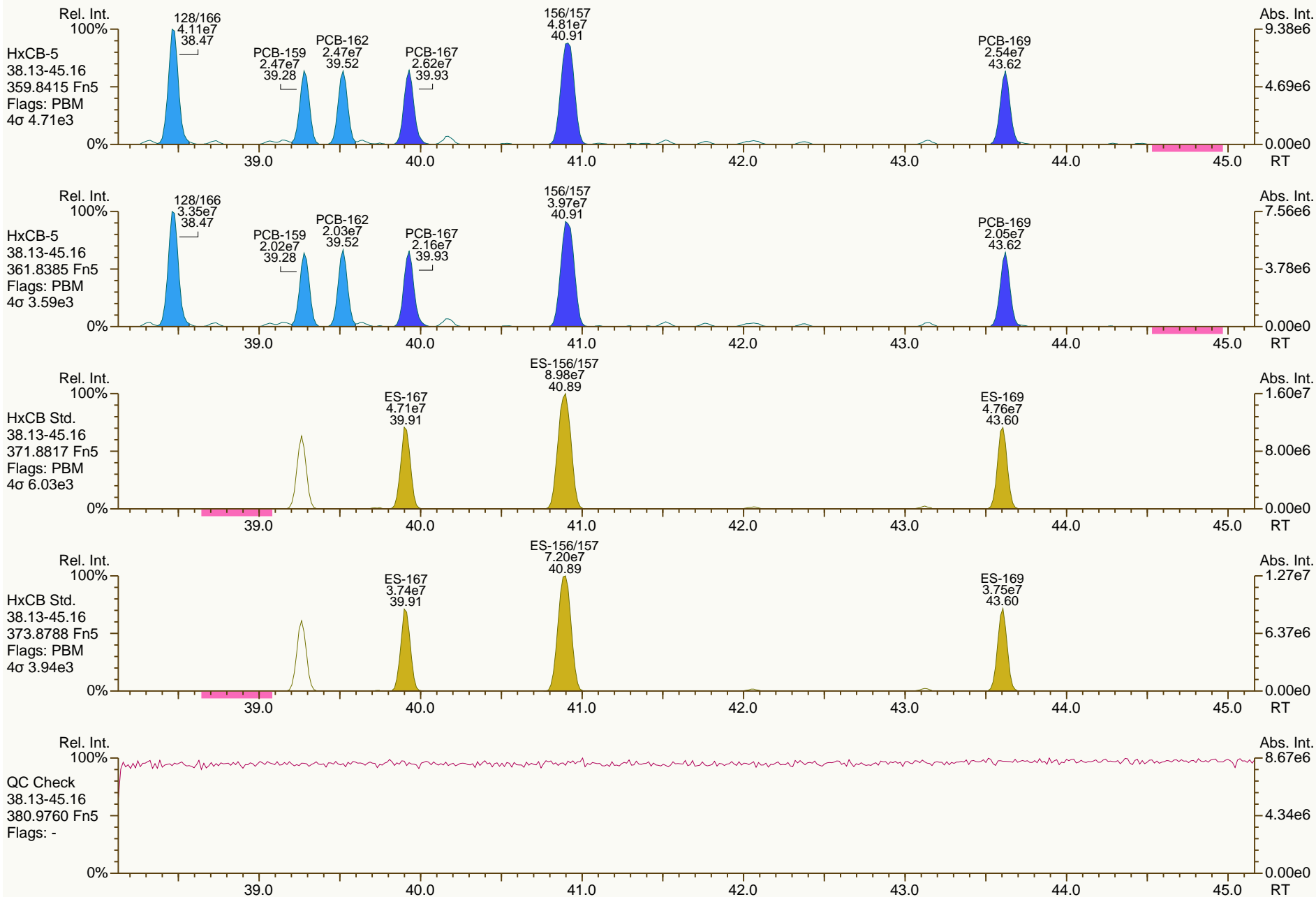
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Sample ID: 0\_11903\_OPR001  
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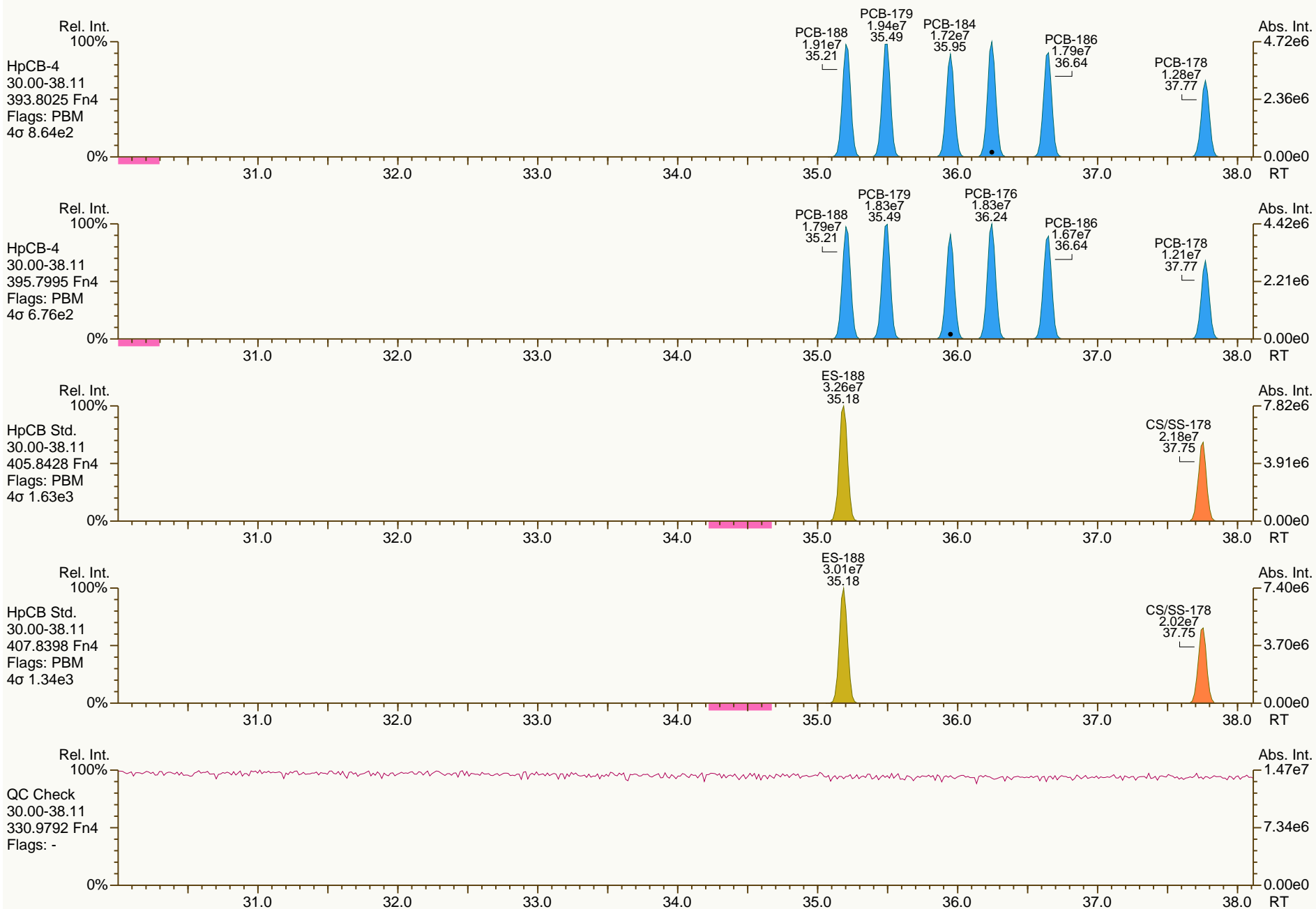
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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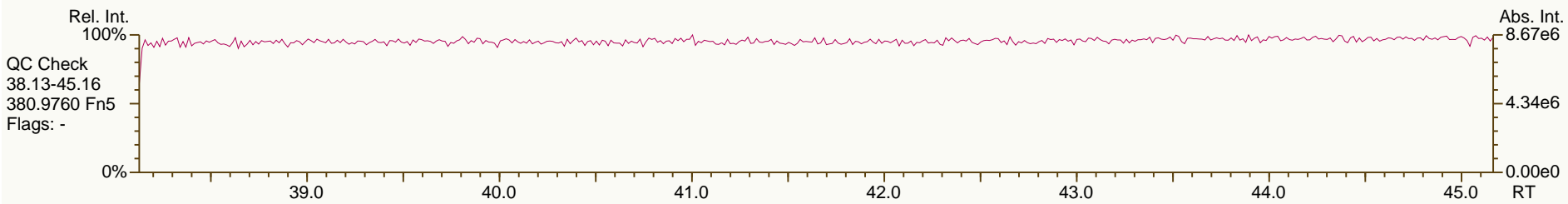
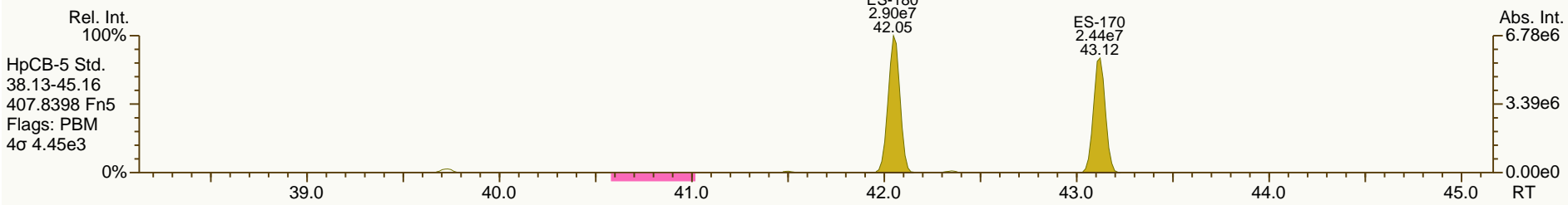
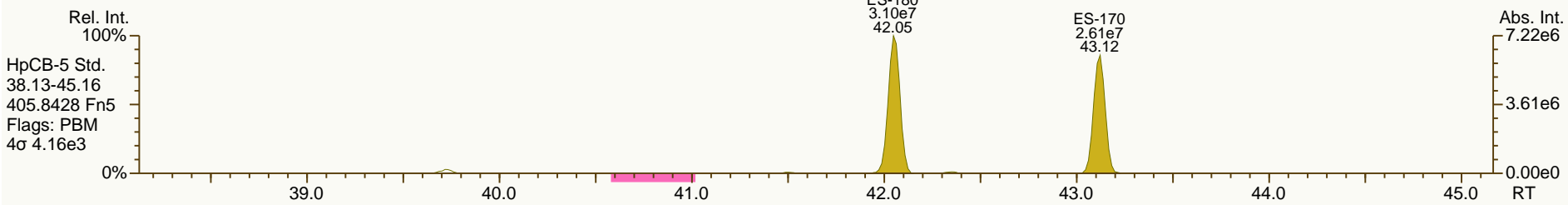
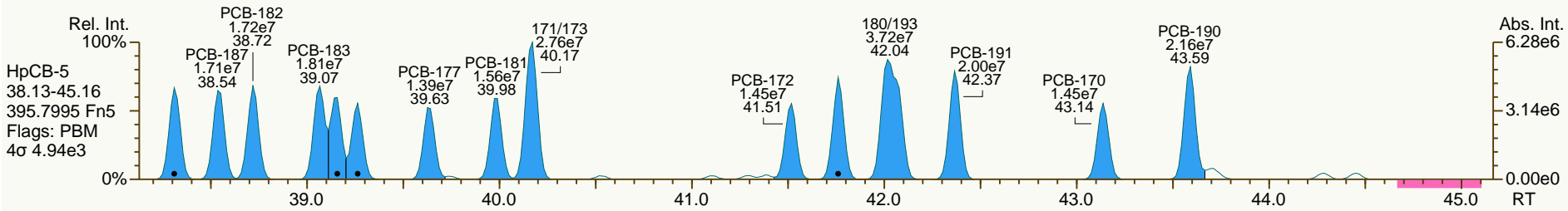
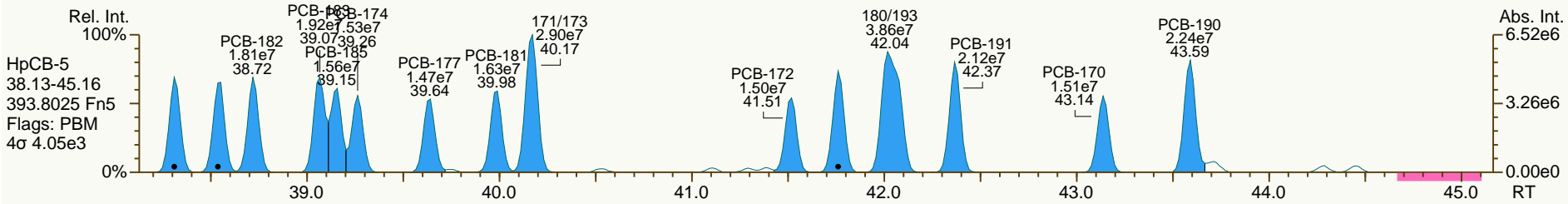
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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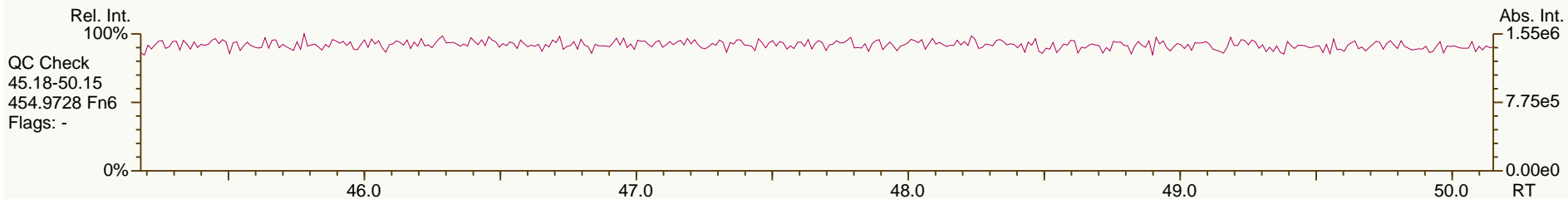
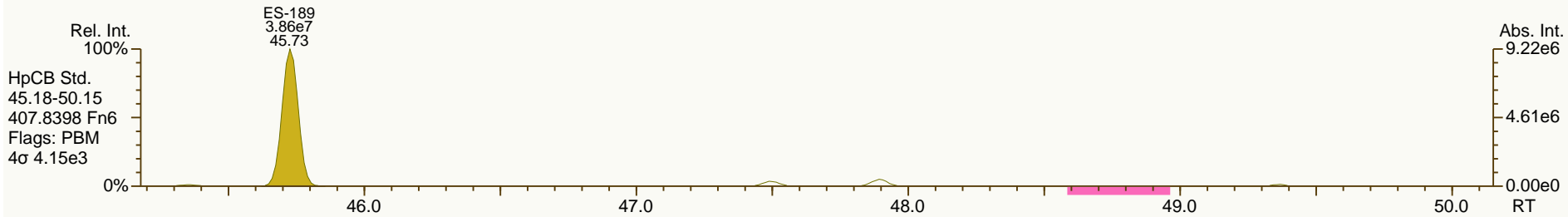
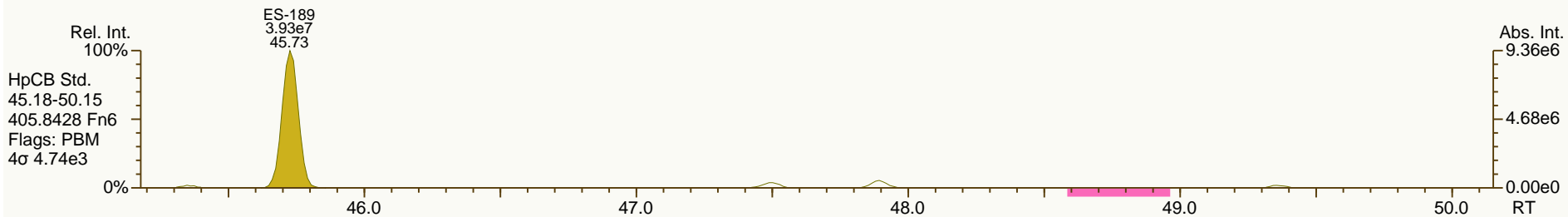
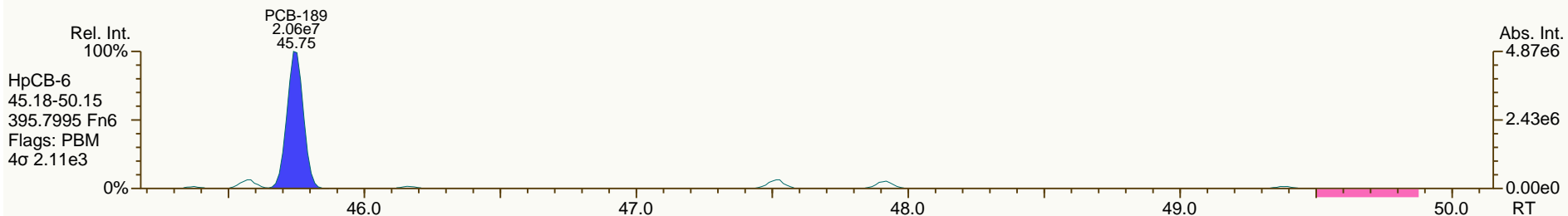
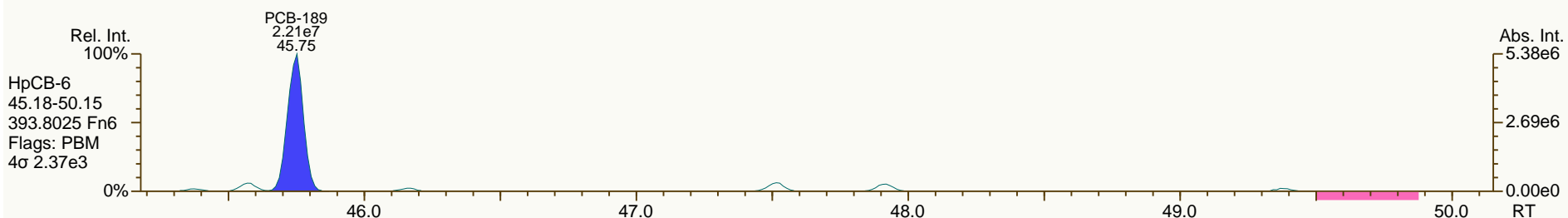




SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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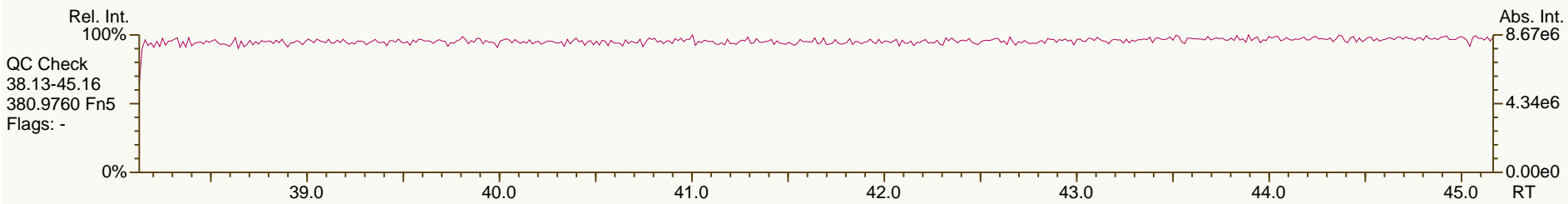
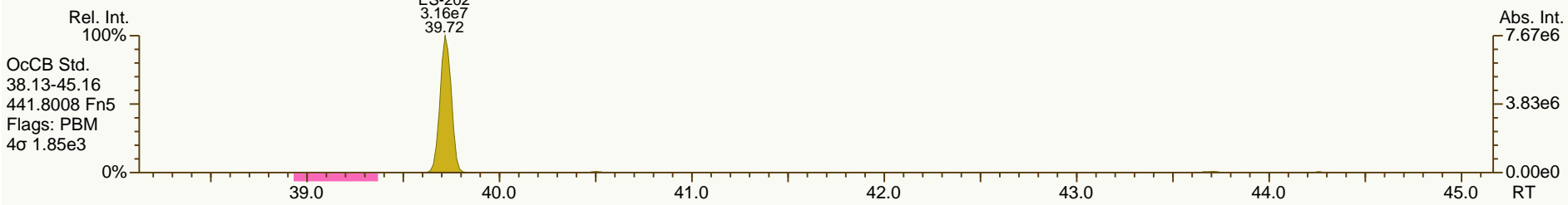
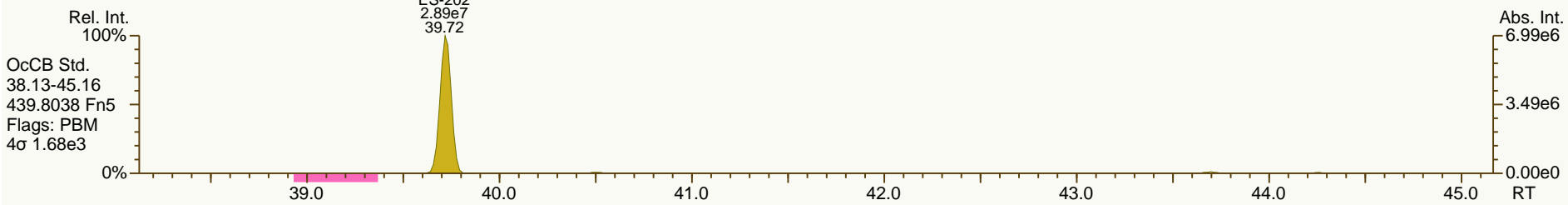
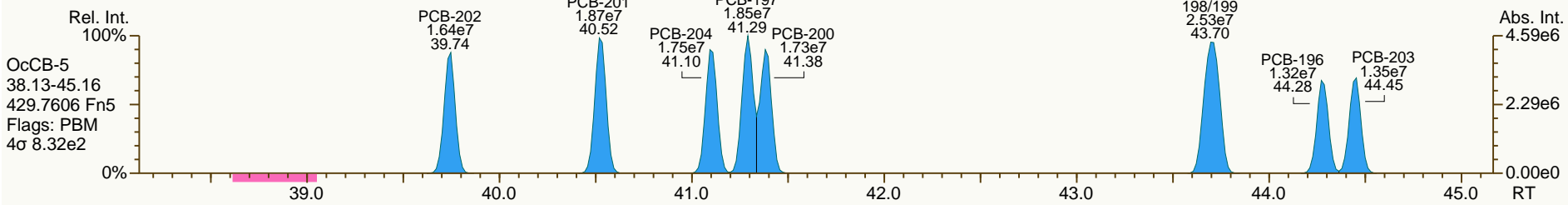
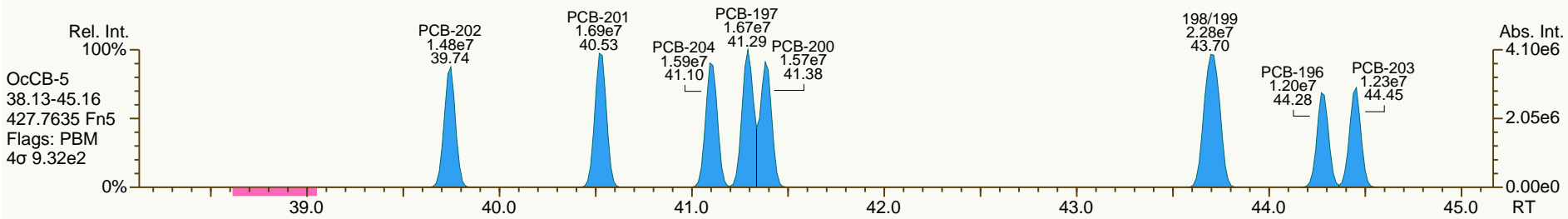
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SGS ID: OPR1\_11903\_PCB-RJ2  
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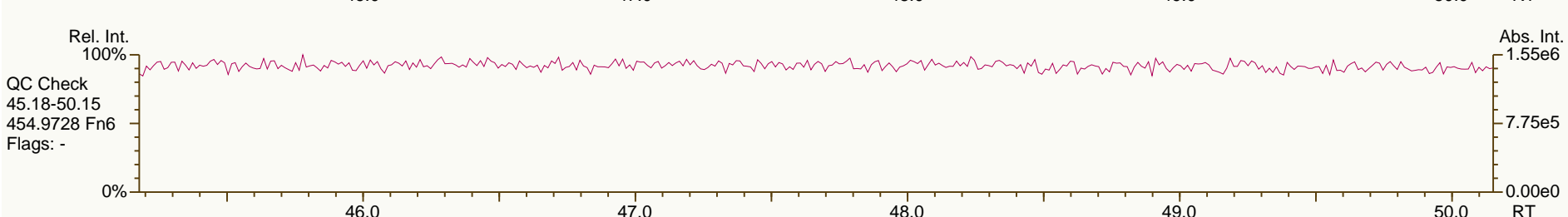
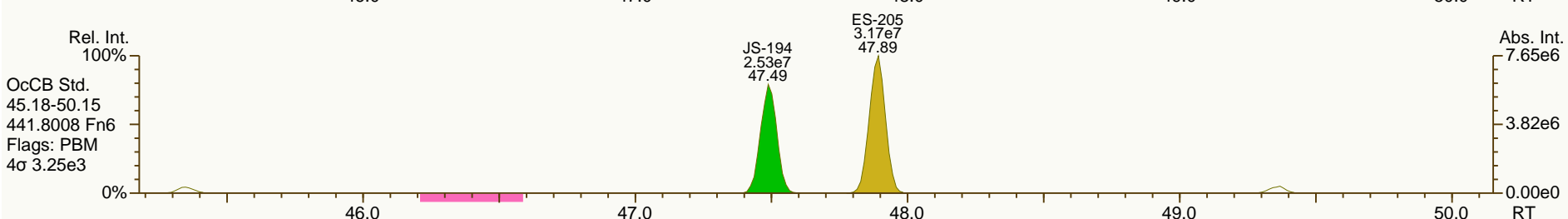
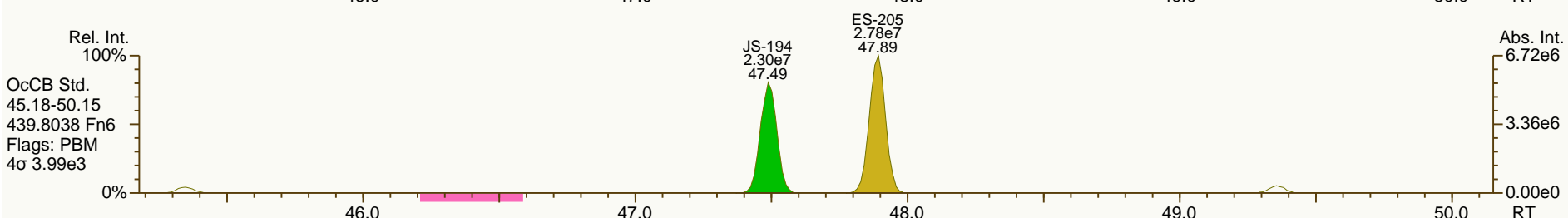
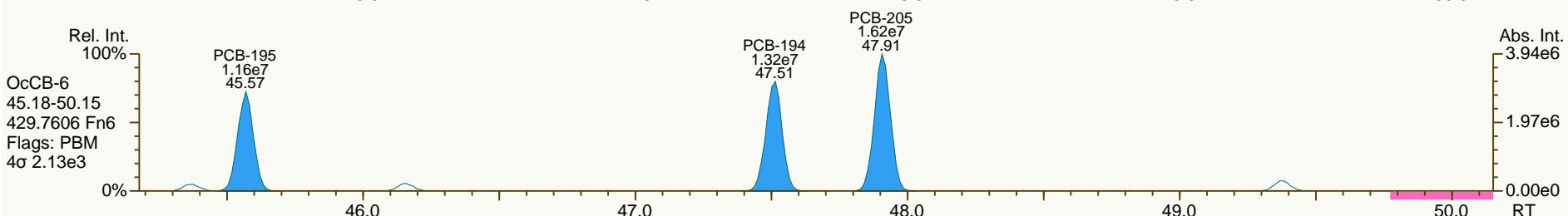
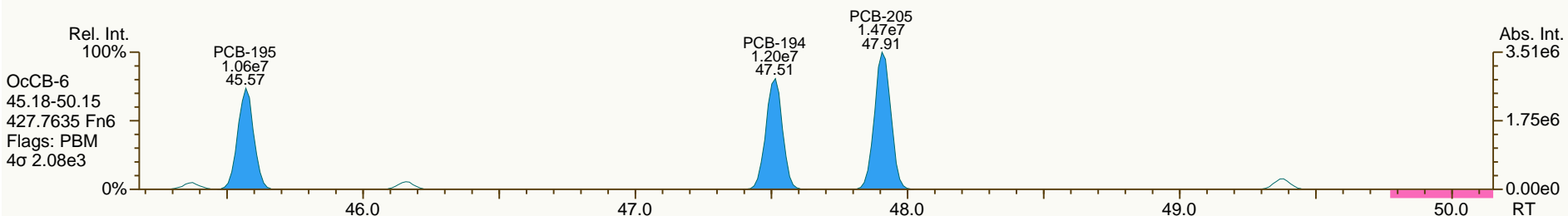
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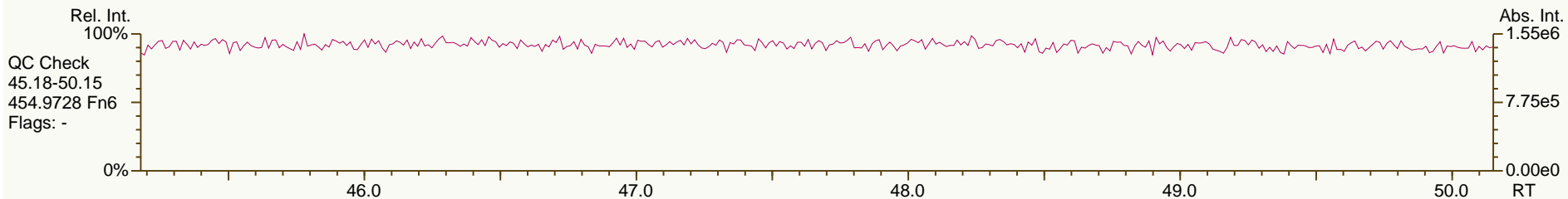
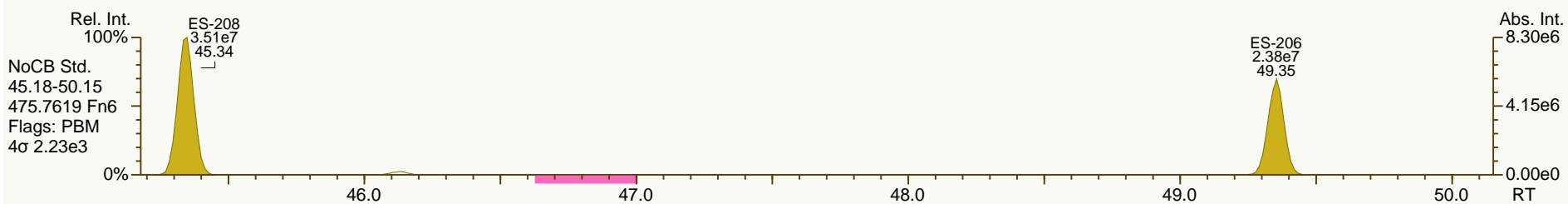
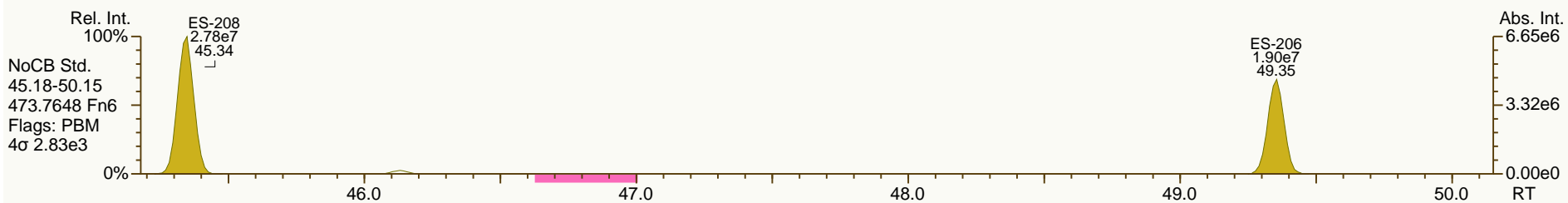
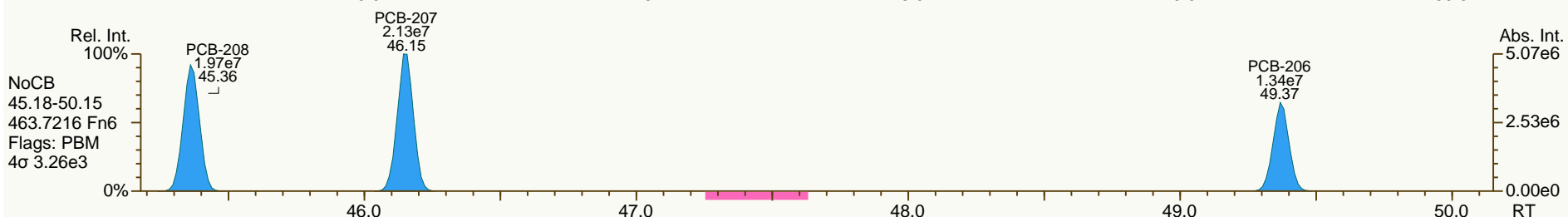
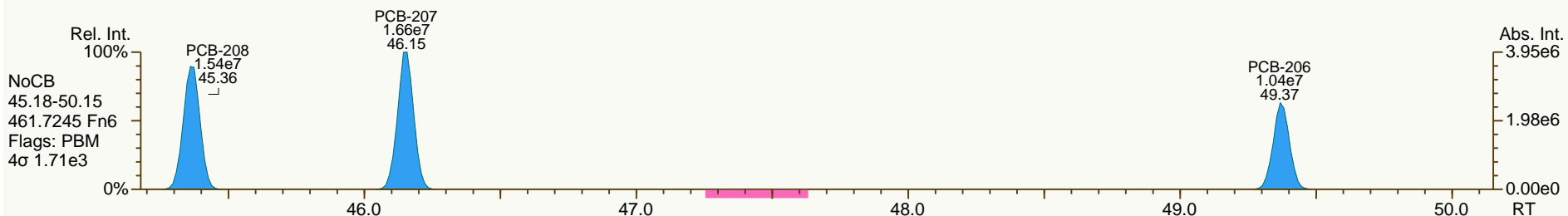
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SGS ID: OPR1\_11903\_PCB-RJ2  
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Sample ID: 0\_11903\_OPR001  
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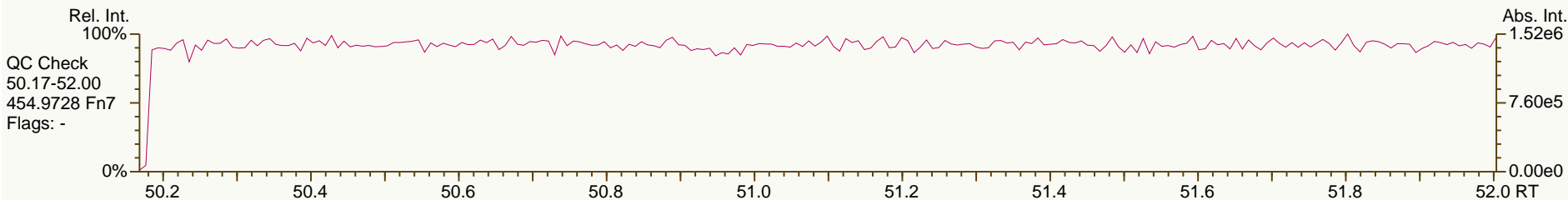
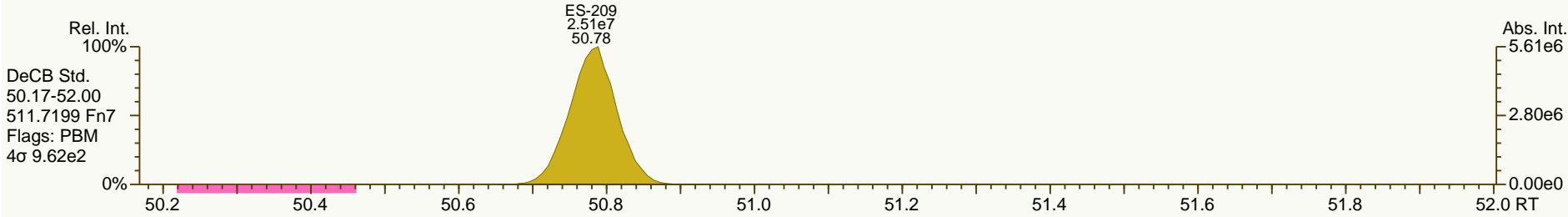
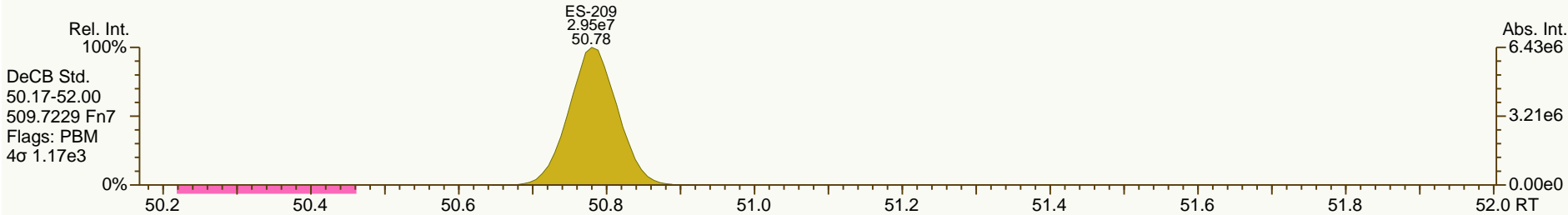
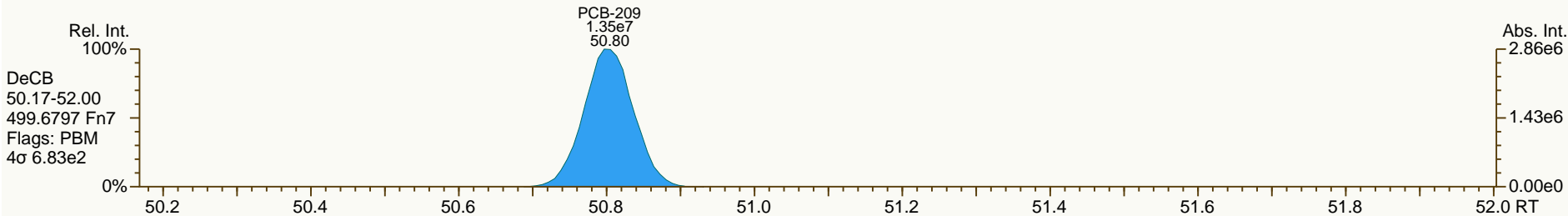
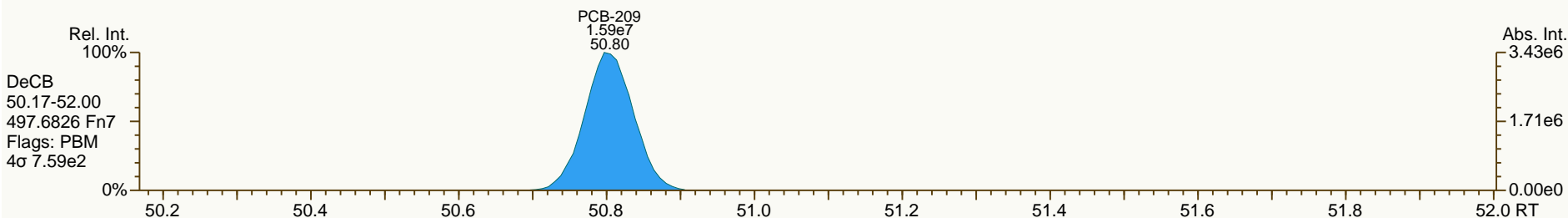
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 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

Acq: 28-Mar-2014 17:55:43  
 User: LKB Datafile: 140328X08





4 APRIL 2014

**DELANEY PETERSON  
ANCHOR QEA**

7200 Olive Way, Ste 300  
Seattle WA 98101

t. 206-287-9130  
e. DPeterson@anchorqea.com

**SUBJECT: CERTIFICATE OF RESULTS**

Dear Delaney;

Attached to this narrative are the analytical results for sample(s) submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes information about the project. If applicable, QC annotations below highlight specific analytical observations and assessments made during the sample handling and data interpretation phases.

Results reported relate only to the items tested.

**PROJECT INFORMATION SUMMARY** *(When applicable, see QC Annotations for details)*

Client Project	Patrick Bayou Superfund Ste
SGS Project #	A6521
Analytical Protocol(s)	Method 1668A
No. Samples Submitted	6
Additional QC Sample(s)	0
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
Date Received	19-Mar-2014
Condition Received	good
Temperature upon Receipt (C)	2.2 - 2.4
Extraction within Holding Time	yes
Analysis within Holding Time	yes

**QC ANNOTATIONS:**

- |    |  |
|----|--|
| 1. | Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project. |
|----|--|

SGS remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at [www.sgs.com/ultratrace](http://www.sgs.com/ultratrace) and click on the 'Email Us' link or go to our survey [here](#). Thank you for choosing SGS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amy J. Boehm', with a long horizontal flourish extending to the right.

Digitally signed by Amy Boehm

Date: 2014.04.04 11:19:40

-04'00'

Amy J. Boehm

Senior Project Manager



## APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. <sup>1</sup>
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. <sup>1</sup>
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.





## APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

## APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.



## SGS CERTIFICATIONS

California	07255CA
Connecticut	PH-0258
Florida (primary NELAP)	E87634
ISO17025	2726.01
Kansas	E-10330
Louisiana	04115
Maryland (DW only)	299
New Jersey	NC100
New York	11685
North Carolina DENR	481
North Carolina DHHS (DW only)	37776
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029
Texas	T104704260-13-5
Utah	NC009192013-3
Virginia (DW only)	00235
Virginia	460214
Washington State	C913
West Virginia	293

**Sample ID: PB083-1SWMID-140318-N****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	19-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	1.19 L	Sample ID:	A6521_11903_PCB_001-RJ	Date Extracted:	20-Mar-2014
Date Collected:	18-Mar-2014	pH	7	QC Batch No.:	11903	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	35.4				ES PCB-1	64.3	
PCB-81 344'5'-TeCB	1.82			J	ES PCB-3	73.1	
PCB-105 233'44'-PeCB	99.3				ES PCB-4	89.9	
PCB-114 2344'5'-PeCB	6.19			J	ES PCB-15	94.2	
PCB-118 23'44'5'-PeCB	182				ES PCB-19	94.3	
PCB-123 23'44'5'-PeCB	5.04			J	ES PCB-37	83.7	
PCB-126 33'44'5'-PeCB	1.23			J	ES PCB-54	106	
PCB-156/157 233'44'5'/233'44'5'-HxCB	11.4			J C	ES PCB-77	87.6	
PCB-167 23'44'55'-HxCB	3.4			J	ES PCB-81	85.6	
PCB-169 33'44'55'-HxCB	ND	0.434			ES PCB-104	107	
PCB-189 233'44'55'-HpCB	0.645			J	ES PCB-105	96.5	
					ES PCB-114	91	
<b>TEQs (WHO M/H)</b>					ES PCB-118	96	
					ES PCB-123	93.2	
ND = 0	0.137			0.137	ES PCB-126	98.2	
ND = 0.5 x DL	0.143			0.143	ES PCB-153	87.5	
ND = DL	0.15			0.15	ES PCB-155	83.7	
					ES PCB-156/157	80.2	
<b>Totals</b>					ES PCB-167	78.5	
Mono-CBs	30.8				ES PCB-169	79.9	
Di-CBs	406				ES PCB-170	96.8	
Tri-CBs	2,570				ES PCB-180	97.7	
Tetra-CBs	4,970				ES PCB-188	100	
Penta-CBs	1,820			1,820	ES PCB-189	95.1	
Hexa-CBs	435			436	ES PCB-202	96.8	
Hepta-CBs	110			122	ES PCB-205	88.4	
Octa-CBs	27.9			31	ES PCB-206	92.6	
Nona-CBs	6.4			7.87	ES PCB-208	99.4	
Deca-CB	42.6				ES PCB-209	84.6	
					CS PCB-28	91	
Total PCB (Mono-Deca)	10,400			10,400	CS PCB-111	101	
					CS PCB-178	119	

Checkcode: 761-512-TRG


SGS Environmental Services - PCB 2014 Rev. 4.04

Report Created: 04-Apr-2014 10:12 Analyst: ds



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)

Sample ID: PB083-1SWMID-140318-N						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: 19-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 1.19 L			Sample ID: A6521_11903_PCB_001-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 18-Mar-2014			pH: 7			QC Batch No.: 11903			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 761-512-TRG			Time Analyzed: 21:35:52								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	23		PCB-19	79.7		PCB-54	2.83	J	PCB-72	3.15	J						
PCB-2	2.1	J	PCB-30/18	510	C	PCB-50/53	154	C	PCB-68	25.6							
PCB-3	5.7	J B	PCB-17	180		PCB-45	129		PCB-57	2.47	J						
			PCB-27	31.1		PCB-51	70.9		PCB-58	0.923	J						
<b>Conc.</b>	30.8		PCB-24	3.43	J	PCB-46	57.3		PCB-67	10.6							
<b>EMPC</b>	30.8		PCB-16	172		PCB-52	829		PCB-63	16.3							
			PCB-32	170		PCB-73	1.59	J	PCB-61/70/74/76	726	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	2.42	J	PCB-43	28.3		PCB-66	453							
PCB-4	151		PCB-23	(0.923)		PCB-69/49	408	C	PCB-55	4.43	J						
PCB-10	4.44	J	PCB-26/29	90.3	C	PCB-48	125		PCB-56	225							
PCB-9	7.02	J	PCB-25	62.9		PCB-44/47/65	702	C	PCB-60	96.8							
PCB-7	3.57	J	PCB-31	463		PCB-59/62/75	49.3	C	PCB-80	(0.67)							
PCB-6	47		PCB-28/20	461	C	PCB-42	178		PCB-79	8.5							
PCB-5	2.02	J	PCB-21/33	130	C	PCB-41	52.3		PCB-78	(0.805)							
PCB-8	101		PCB-22	131		PCB-71/40	312	C	PCB-81	1.82	J						
PCB-14	(0.421)		PCB-36	(0.885)		PCB-64	264		PCB-77	35.4							
PCB-11	22.7	B	PCB-39	3.81	J												
PCB-13/12	15.2	J C	PCB-38	(0.957)													
PCB-15	51.5		PCB-35	7.39	J												
			PCB-37	73.5													
<b>Conc.</b>	406		<b>Conc.</b>	2,570					<b>Conc.</b>	4,970							
<b>EMPC</b>	406		<b>EMPC</b>	2,570					<b>EMPC</b>	4,970							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						3,010			3,010		
						Tetra-Hexa						7,220			7,230		
						Hepta-Deca						187			203		
						Mono-Deca			10,400								

Sample ID: PB083-1SWMID-140318-N						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.282)		PCB-108/119/86/97/125/87	207	C	PCB-155	[0.329]	J EMPC	PCB-165	(0.302)	
PCB-96	7.27	J	PCB-117	8.96		PCB-152	(0.263)		PCB-146	13.8	
PCB-103	2.67	J	PCB-116/85	68.5	C	PCB-150	(0.259)		PCB-161	(0.277)	
PCB-94	3.32	J	PCB-110	292		PCB-136	14		PCB-153/168	69.2	C
PCB-95	217		PCB-115	7.61	J	PCB-145	(0.273)		PCB-141	16.9	
PCB-100/93	5.16	J C	PCB-82	52.4		PCB-148	(0.356)		PCB-130	7.57	J
PCB-102	15.2		PCB-111	(0.489)		PCB-151/135	28.2	C	PCB-137	5.51	J
PCB-98	0.974	J	PCB-120	[0.681]	J EMPC	PCB-154	1.1	J	PCB-164	7.06	J
PCB-88	(0.759)		PCB-107/124	8.58	J C	PCB-144	4.2	J	PCB-163/138/129	105	C
PCB-91	52.7		PCB-109	15.7		PCB-147/149	71	C	PCB-160	(0.294)	
PCB-84	103		PCB-123	5.04	J	PCB-134	6.39	J	PCB-158	10.1	
PCB-89	10.6		PCB-106	1.18	J	PCB-143	0.717	J	PCB-128/166	16.5	J C
PCB-121	(0.493)		PCB-118	182		PCB-139/140	2.37	J C	PCB-159	[0.749]	J EMPC
PCB-92	45.1		PCB-122	4.58	J	PCB-131	1.84	J	PCB-162	(0.411)	
PCB-113/90/101	230	C	PCB-114	6.19	J	PCB-142	(0.431)		PCB-167	3.4	J
PCB-83	15.1		PCB-105	99.3		PCB-132	37.2		PCB-156/157	11.4	J C
PCB-99	146		PCB-127	(0.507)		PCB-133	1.43	J	PCB-169	(0.434)	
PCB-112	1.07	J	PCB-126	[1.23]	J						
			<b>Conc.</b>	1,820					<b>Conc.</b>	435	
			<b>EMPC</b>	1,820					<b>EMPC</b>	436	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.258)		PCB-174	15.9		PCB-202	2.06	J	PCB-208	2.19	J
PCB-179	7.12	J	PCB-177	[7.61]	J EMPC	PCB-201	1.16	J	PCB-207	[1.47]	J EMPC
PCB-184	(0.31)		PCB-181	(0.578)		PCB-204	(0.349)		PCB-206	4.21	J
PCB-176	1.95	J	PCB-171/173	4.68	J C	PCB-197	[0.581]	J EMPC			
PCB-186	(0.305)		PCB-172	[2.63]	J EMPC	PCB-200	0.853	J	<b>Conc.</b>	6.4	
PCB-178	3.24	J	PCB-192	(0.481)		PCB-198/199	9.2	J C	<b>EMPC</b>	7.87	
PCB-175	[0.667]	J EMPC	PCB-180/193	31.5	C	PCB-196	3.55	J			
PCB-187	18.3		PCB-191	[0.677]	J EMPC	PCB-203	4.61	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.526)		PCB-170	14.7		PCB-195	[2.5]	J EMPC	PCB-209	42.6	
PCB-183	7.79	J	PCB-190	2.78	J	PCB-194	6.46	J			
PCB-185	1.48	J	PCB-189	0.645	J	PCB-205	(0.49)				
			<b>Conc.</b>	110		<b>Conc.</b>	27.9				
			<b>EMPC</b>	122		<b>EMPC</b>	31				

**Sample ID: PB083-1SWMID-140318-D****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	19-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	1.18 L	Sample ID:	A6521_11903_PCB_002-RJ	Date Extracted:	20-Mar-2014
Date Collected:	18-Mar-2014	pH	7	QC Batch No.:	11903	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	37.7				ES PCB-1	72.7	
PCB-81 344'5'-TeCB	EMPC		1.68	J	ES PCB-3	78.9	
PCB-105 233'44'-PeCB	108				ES PCB-4	100	
PCB-114 2344'5'-PeCB	6.49			J	ES PCB-15	103	
PCB-118 23'44'5'-PeCB	191				ES PCB-19	104	
PCB-123 23'44'5'-PeCB	5.63			J	ES PCB-37	88.9	
PCB-126 33'44'5'-PeCB	1.08			J	ES PCB-54	116	
PCB-156/157 233'44'5'/233'44'5'-HxCB	11.5			J C	ES PCB-77	94.1	
PCB-167 23'44'55'-HxCB	3.5			J	ES PCB-81	92.3	
PCB-169 33'44'55'-HxCB	ND	0.259			ES PCB-104	124	
PCB-189 233'44'55'-HpCB	0.73			J	ES PCB-105	105	
					ES PCB-114	101	
					ES PCB-118	106	
<b>TEQs (WHO M/H)</b>					ES PCB-123	102	
					ES PCB-126	107	
ND = 0	0.122		0.122		ES PCB-153	97.2	
ND = 0.5 x DL	0.126		0.126		ES PCB-155	96.2	
ND = DL	0.13		0.13		ES PCB-156/157	86.7	
					ES PCB-167	85.8	
<b>Totals</b>					ES PCB-169	85.6	
Mono-CBs	27.8				ES PCB-170	101	
Di-CBs	395				ES PCB-180	106	
Tri-CBs	2,650		2,660		ES PCB-188	117	
Tetra-CBs	5,230		5,230		ES PCB-189	100	
Penta-CBs	1,910		1,910		ES PCB-202	112	
Hexa-CBs	431		433		ES PCB-205	91.4	
Hepta-CBs	116				ES PCB-206	95.5	
Octa-CBs	24.9		27.5		ES PCB-208	107	
Nona-CBs	9.25				ES PCB-209	87.4	
Deca-CB	45.2				CS PCB-28	96.9	
					CS PCB-111	110	
Total PCB (Mono-Deca)	10,800		10,800		CS PCB-178	127	

Checkcode: 203-283-HKH


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Report Created: 04-Apr-2014 10:13 Analyst: ds



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)

Sample ID: PB083-1SWMID-140318-D						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: 19-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 1.18 L			Sample ID: A6521_11903_PCB_002-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 18-Mar-2014			pH: 7			QC Batch No.: 11903			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 203-283-HKH			Time Analyzed: 22:30:56								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	21.4		PCB-19	79.7		PCB-54	3.2	J	PCB-72	[3.23]	J EMPC						
PCB-2	1.49	J	PCB-30/18	522	C	PCB-50/53	159	C	PCB-68	27.1							
PCB-3	4.96	J B	PCB-17	184		PCB-45	144		PCB-57	2.38	J						
			PCB-27	31.5		PCB-51	62		PCB-58	1.12	J						
<b>Conc.</b>	27.8		PCB-24	[2.8]	J EMPC	PCB-46	62.5		PCB-67	11.3							
<b>EMPC</b>	27.8		PCB-16	181		PCB-52	875		PCB-63	17.2							
			PCB-32	170		PCB-73	1.71	J	PCB-61/70/74/76	774	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	2.48	J	PCB-43	28.2		PCB-66	482							
PCB-4	145		PCB-23	(0.664)		PCB-69/49	425	C	PCB-55	5.47	J						
PCB-10	4.61	J	PCB-26/29	91.5	C	PCB-48	131		PCB-56	237							
PCB-9	6.87	J	PCB-25	63.6		PCB-44/47/65	737	C	PCB-60	105							
PCB-7	3.16	J	PCB-31	483		PCB-59/62/75	52.3	C	PCB-80	(0.635)							
PCB-6	45.8		PCB-28/20	482	C	PCB-42	184		PCB-79	3.07	J						
PCB-5	1.83	J	PCB-21/33	137	C	PCB-41	51.6		PCB-78	(0.762)							
PCB-8	101		PCB-22	135		PCB-71/40	330	C	PCB-81	[1.68]	J EMPC						
PCB-14	(0.356)		PCB-36	(0.637)		PCB-64	277		PCB-77	37.7							
PCB-11	21.2	B	PCB-39	4.53	J												
PCB-13/12	13.8	J C	PCB-38	[0.797]	J EMPC												
PCB-15	52.4		PCB-35	7.21	J												
			PCB-37	77.6													
<b>Conc.</b>	395		<b>Conc.</b>	2,650					<b>Conc.</b>	5,230							
<b>EMPC</b>	395		<b>EMPC</b>	2,660					<b>EMPC</b>	5,230							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						3,080			3,080		
						Tetra-Hexa						7,560			7,570		
						Hepta-Deca						195			198		
						Mono-Deca						10,800			10,800		

Sample ID: PB083-1SWMID-140318-D						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.208)		PCB-108/119/86/97/125/87	218	C	PCB-155	[0.273]	J EMPC	PCB-165	(0.203)	
PCB-96	7.49	J	PCB-117	8.19	J	PCB-152	[0.228]	J EMPC	PCB-146	13.9	
PCB-103	2.85	J	PCB-116/85	73.9	C	PCB-150	0.275	J	PCB-161	(0.186)	
PCB-94	3.65	J	PCB-110	305		PCB-136	13.1		PCB-153/168	68.6	C
PCB-95	227		PCB-115	9.47		PCB-145	(0.184)		PCB-141	17	
PCB-100/93	5.05	J C	PCB-82	54.2		PCB-148	(0.239)		PCB-130	7.57	J
PCB-102	15.6		PCB-111	(0.472)		PCB-151/135	28.4	C	PCB-137	5.75	J
PCB-98	1.45	J	PCB-120	0.555	J	PCB-154	[1.03]	J EMPC	PCB-164	6.63	J
PCB-88	(0.733)		PCB-107/124	9	J C	PCB-144	4.67	J	PCB-163/138/129	104	C
PCB-91	55.9		PCB-109	16.1		PCB-147/149	70.2	C	PCB-160	(0.197)	
PCB-84	110		PCB-123	5.63	J	PCB-134	5.51	J	PCB-158	10.4	
PCB-89	10.5		PCB-106	[0.823]	J EMPC	PCB-143	0.367	J	PCB-128/166	17.1	C
PCB-121	(0.476)		PCB-118	191		PCB-139/140	2.24	J C	PCB-159	[0.677]	J EMPC
PCB-92	46.8		PCB-122	4.31	J	PCB-131	2.1	J	PCB-162	0.473	J
PCB-113/90/101	241	C	PCB-114	6.49	J	PCB-142	(0.289)		PCB-167	3.5	J
PCB-83	18.8		PCB-105	108		PCB-132	36.5		PCB-156/157	11.5	J C
PCB-99	149		PCB-127	(0.489)		PCB-133	1.32	J	PCB-169	(0.259)	
PCB-112	[0.984]	J EMPC	PCB-126	[1.08]	J						
			<b>Conc.</b>	1,910					<b>Conc.</b>	431	
			<b>EMPC</b>	1,910					<b>EMPC</b>	433	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.157)		PCB-174	14		PCB-202	1.83	J	PCB-208	2.33	J
PCB-179	6.7	J	PCB-177	8.43	J	PCB-201	1.09	J	PCB-207	2.22	J
PCB-184	0.498	J	PCB-181	(0.318)		PCB-204	(0.262)		PCB-206	4.7	J
PCB-176	1.91	J	PCB-171/173	4.32	J C	PCB-197	0.501	J			
PCB-186	(0.186)		PCB-172	2.48	J	PCB-200	1.08	J	<b>Conc.</b>	9.25	
PCB-178	3.27	J	PCB-192	(0.264)		PCB-198/199	7.82	J C	<b>EMPC</b>	9.25	
PCB-175	0.662	J	PCB-180/193	28.6	C	PCB-196	[2.65]	J EMPC			
PCB-187	17.5		PCB-191	0.726	J	PCB-203	4.23	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.289)		PCB-170	14.5		PCB-195	2.23	J	PCB-209	45.2	
PCB-183	7.14	J	PCB-190	2.73	J	PCB-194	6.09	J			
PCB-185	1.59	J	PCB-189	0.73	J	PCB-205	(0.346)				
			<b>Conc.</b>	116		<b>Conc.</b>	24.9				
			<b>EMPC</b>	116		<b>EMPC</b>	27.5				



**Sample ID: PB087-1SWMID-140318-N****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	19-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.93 L	Sample ID:	A6521_11903_PCB_003-RJ	Date Extracted:	20-Mar-2014
Date Collected:	18-Mar-2014	pH	7	QC Batch No.:	11903	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	20.8				ES PCB-1	36.9	
PCB-81 344'5'-TeCB	ND	1.02			ES PCB-3	48.9	
PCB-105 233'44'-PeCB	55.6				ES PCB-4	58.6	
PCB-114 2344'5'-PeCB	3.48			J	ES PCB-15	83	
PCB-118 23'44'5'-PeCB	105				ES PCB-19	67.9	
PCB-123 23'44'5'-PeCB	2.82			J	ES PCB-37	86.4	
PCB-126 33'44'5'-PeCB	ND	0.752			ES PCB-54	86.5	
PCB-156/157 233'44'5'/233'44'5'-HxCB	7.98			J C	ES PCB-77	91.1	
PCB-167 23'44'55'-HxCB	2.42			J	ES PCB-81	89.4	
PCB-169 33'44'55'-HxCB	ND	0.342			ES PCB-104	112	
PCB-189 233'44'55'-HpCB	0.628			J	ES PCB-105	102	
					ES PCB-114	99.6	
<b>TEQs (WHO M/H)</b>					ES PCB-118	104	
					ES PCB-123	102	
ND = 0	0.00743		0.00743		ES PCB-126	108	
ND = 0.5 x DL	0.0503		0.0503		ES PCB-153	97.5	
ND = DL	0.0931		0.0931		ES PCB-155	94.4	
					ES PCB-156/157	87	
<b>Totals</b>					ES PCB-167	85.8	
Mono-CBs	27				ES PCB-169	89.4	
Di-CBs	349				ES PCB-170	101	
Tri-CBs	1,730		1,730		ES PCB-180	103	
Tetra-CBs	2,660		2,660		ES PCB-188	115	
Penta-CBs	1,040		1,050		ES PCB-189	99.3	
Hexa-CBs	290		297		ES PCB-202	112	
Hepta-CBs	46.4		72.1		ES PCB-205	93	
Octa-CBs	10.2		17.3		ES PCB-206	97.9	
Nona-CBs	ND	1.65			ES PCB-208	107	
Deca-CB	11.5				ES PCB-209	92	
					CS PCB-28	93.8	
Total PCB (Mono-Deca)	6,160		6,220		CS PCB-111	105	
					CS PCB-178	125	

Checkcode: 039-448-GDN


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5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

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Sample ID: PB087-1SWMID-140318-N						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: 19-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.93 L			Sample ID: A6521_11903_PCB_003-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 18-Mar-2014			pH: 7			QC Batch No.: 11903			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 039-448-GDN			Time Analyzed: 23:25:58								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	18.9		PCB-19	81.2		PCB-54	2.88	J	PCB-72	1.81	J						
PCB-2	2.03	J	PCB-30/18	368	C	PCB-50/53	88.6	C	PCB-68	23.9							
PCB-3	6.04	J B	PCB-17	150		PCB-45	67.2		PCB-57	1.4	J						
			PCB-27	26.4		PCB-51	56.4		PCB-58	(0.898)							
<b>Conc.</b>	27		PCB-24	2.56	J	PCB-46	33		PCB-67	5.56	J						
<b>EMPC</b>	27		PCB-16	126		PCB-52	451		PCB-63	9.59	J						
			PCB-32	157		PCB-73	1.13	J	PCB-61/70/74/76	350	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	2.09	J	PCB-43	14.4		PCB-66	231							
PCB-4	149		PCB-23	(1.07)		PCB-69/49	228	C	PCB-55	[2.83]	J EMPC						
PCB-10	3.54	J	PCB-26/29	64	C	PCB-48	55.7		PCB-56	119							
PCB-9	4.33	J	PCB-25	65.2		PCB-44/47/65	389	C	PCB-60	49.4							
PCB-7	(0.801)		PCB-31	242		PCB-59/62/75	27.4	J C	PCB-80	(0.831)							
PCB-6	47.3		PCB-28/20	267	C	PCB-42	100		PCB-79	[1.85]	J EMPC						
PCB-5	(0.852)		PCB-21/33	60.8	C	PCB-41	18		PCB-78	(0.998)							
PCB-8	65.6		PCB-22	75.8		PCB-71/40	177	C	PCB-81	(1.02)							
PCB-14	(0.716)		PCB-36	(1.03)		PCB-64	137		PCB-77	20.8							
PCB-11	26.3	B	PCB-39	2.19	J												
PCB-13/12	17	J C	PCB-38	(1.12)													
PCB-15	35.9		PCB-35	[4.47]	J EMPC												
			PCB-37	38.8													
<b>Conc.</b>	349		<b>Conc.</b>	1,730					<b>Conc.</b>	2,660							
<b>EMPC</b>	349		<b>EMPC</b>	1,730					<b>EMPC</b>	2,660							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						2,110			2,110		
						Tetra-Hexa						3,990			4,010		
						Hepta-Deca						68.2			101		
						Mono-Deca			6,160			6,220					

Sample ID: PB087-1SWMID-140318-N						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.344)		PCB-108/119/86/97/125/87	117	C	PCB-155	[0.321]	J EMPC	PCB-165	(0.359)	
PCB-96	[4.22]	J EMPC	PCB-117	(0.681)		PCB-152	(0.329)		PCB-146	9.56	J
PCB-103	[1.41]	J EMPC	PCB-116/85	44.4	C	PCB-150	(0.324)		PCB-161	(0.329)	
PCB-94	1.7	J	PCB-110	179		PCB-136	9.51	J	PCB-153/168	45	C
PCB-95	128		PCB-115	(0.693)		PCB-145	(0.342)		PCB-141	11.6	
PCB-100/93	2.89	J C	PCB-82	28.5		PCB-148	(0.423)		PCB-130	5.05	J
PCB-102	8.36	J	PCB-111	(0.664)		PCB-151/135	19	J B C	PCB-137	3.72	J
PCB-98	(1.09)		PCB-120	(0.655)		PCB-154	0.709	J	PCB-164	5.04	J
PCB-88	(1.03)		PCB-107/124	[4.79]	J EMPC C	PCB-144	2.87	J	PCB-163/138/129	71.2	C
PCB-91	29.8		PCB-109	9.23	J	PCB-147/149	48.5	C	PCB-160	(0.349)	
PCB-84	59.6		PCB-123	2.82	J	PCB-134	[3.94]	J EMPC	PCB-158	7.25	J
PCB-89	5.43	J	PCB-106	[1.15]	J EMPC	PCB-143	(0.475)		PCB-128/166	11.8	J C
PCB-121	(0.67)		PCB-118	105		PCB-139/140	1.66	J C	PCB-159	0.502	J
PCB-92	27.4		PCB-122	2.67	J	PCB-131	[1.33]	J EMPC	PCB-162	(0.328)	
PCB-113/90/101	136	C	PCB-114	3.48	J	PCB-142	(0.511)		PCB-167	2.42	J
PCB-83	11.9		PCB-105	55.6		PCB-132	26.3		PCB-156/157	7.98	J C
PCB-99	78.8		PCB-127	(0.693)		PCB-133	[1.31]	J EMPC	PCB-169	(0.342)	
PCB-112	0.986	J	PCB-126	(0.752)							
			<b>Conc.</b>	1,040					<b>Conc.</b>	290	
			<b>EMPC</b>	1,050					<b>EMPC</b>	297	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.307)		PCB-174	[8.03]	J EMPC	PCB-202	[1.28]	J EMPC	PCB-208	(1.27)	
PCB-179	4.3	J	PCB-177	[5.05]	J EMPC	PCB-201	[0.836]	J EMPC	PCB-207	(1.22)	
PCB-184	0.533	J	PCB-181	(0.469)		PCB-204	(0.418)		PCB-206	(2.03)	
PCB-176	[1.04]	J EMPC	PCB-171/173	3.05	J C	PCB-197	(0.408)				
PCB-186	(0.364)		PCB-172	1.43	J	PCB-200	0.649	J	<b>Conc.</b>	0	
PCB-178	[1.66]	J EMPC	PCB-192	(0.39)		PCB-198/199	4.85	J C	<b>EMPC</b>	0	
PCB-175	(0.468)		PCB-180/193	18.7	J C	PCB-196	1.98	J			
PCB-187	11.5		PCB-191	0.503	J	PCB-203	2.74	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.426)		PCB-170	[8.47]	J EMPC	PCB-195	[1.08]	J EMPC	PCB-209	11.5	
PCB-183	4.33	J	PCB-190	[1.44]	J EMPC	PCB-194	[3.87]	J EMPC			
PCB-185	1.41	J	PCB-189	0.628	J	PCB-205	(0.563)				
			<b>Conc.</b>	46.4		<b>Conc.</b>	10.2				
			<b>EMPC</b>	72.1		<b>EMPC</b>	17.3				

**Sample ID: PB091-1SWMID-140318-N****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	19-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.96 L	Sample ID:	A6521_11903_PCB_004-RJ	Date Extracted:	20-Mar-2014
Date Collected:	18-Mar-2014	pH	7	QC Batch No.:	11903	Date Analyzed:	29-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L				%
PCB-77 33'44'-TeCB	32.2				ES PCB-1	39.5	
PCB-81 344'5'-TeCB	1.34			J	ES PCB-3	52.2	
PCB-105 233'44'-PeCB	76.9				ES PCB-4	61.3	
PCB-114 2344'5'-PeCB	4.42			J	ES PCB-15	85	
PCB-118 23'44'5'-PeCB	148				ES PCB-19	69.3	
PCB-123 23'44'5'-PeCB	3.35			J	ES PCB-37	87.9	
PCB-126 33'44'5'-PeCB	ND	0.864			ES PCB-54	88.9	
PCB-156/157 233'44'5'/233'44'5'-HxCB	8.99			J C	ES PCB-77	95.2	
PCB-167 23'44'55'-HxCB	2.78			J	ES PCB-81	92.3	
PCB-169 33'44'55'-HxCB	ND	0.446			ES PCB-104	113	
PCB-189 233'44'55'-HpCB	0.617			J	ES PCB-105	102	
					ES PCB-114	97.9	
<b>TEQs (WHO M/H)</b>					ES PCB-118	104	
					ES PCB-123	102	
ND = 0	0.011			0.011	ES PCB-126	106	
ND = 0.5 x DL	0.0609			0.0609	ES PCB-153	92.2	
ND = DL	0.111			0.111	ES PCB-155	90.8	
					ES PCB-156/157	85.4	
<b>Totals</b>					ES PCB-167	86.1	
Mono-CBs	23.8				ES PCB-169	84.6	
Di-CBs	390				ES PCB-170	102	
Tri-CBs	2,060			2,060	ES PCB-180	105	
Tetra-CBs	3,570			3,570	ES PCB-188	117	
Penta-CBs	1,420			1,420	ES PCB-189	98.8	
Hexa-CBs	337				ES PCB-202	111	
Hepta-CBs	90.4				ES PCB-205	89.3	
Octa-CBs	16			22.3	ES PCB-206	94.2	
Nona-CBs	4.09				ES PCB-208	106	
Deca-CB	5.81				ES PCB-209	86	
					CS PCB-28	93.7	
Total PCB (Mono-Deca)	7,920			7,930	CS PCB-111	106	
					CS PCB-178	125	

Checkcode: 863-237-FYN


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Report Created: 04-Apr-2014 10:13 Analyst: ds



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North Carolina 28405  
USA

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Sample ID: PB091-1SWMID-140318-N						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: 19-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.96 L			Sample ID: A6521_11903_PCB_004-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 18-Mar-2014			pH: 7			QC Batch No.: 11903			Date Analyzed: 29-Mar-2014								
			Units: pg/L			Checkcode: 863-237-FYN			Time Analyzed: 00:21:02								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	15.2		PCB-19	91.1		PCB-54	3.41	J	PCB-72	3.5	J						
PCB-2	2.69	J	PCB-30/18	383	C	PCB-50/53	113	C	PCB-68	22.7							
PCB-3	5.96	J B	PCB-17	181		PCB-45	77.1		PCB-57	2.2	J						
			PCB-27	30.8		PCB-51	63.1		PCB-58	[1.24]	J EMPC						
<b>Conc.</b>	23.8		PCB-24	[2.13]	J EMPC	PCB-46	41.9		PCB-67	8.75	J						
<b>EMPC</b>	23.8		PCB-16	119		PCB-52	574		PCB-63	15.7							
			PCB-32	192		PCB-73	1.35	J	PCB-61/70/74/76	490	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	3.18	J	PCB-43	19.5		PCB-66	337							
PCB-4	147		PCB-23	(1.02)		PCB-69/49	326	C	PCB-55	4.12	J						
PCB-10	3.57	J	PCB-26/29	89.2	C	PCB-48	69		PCB-56	169							
PCB-9	3.77	J	PCB-25	106		PCB-44/47/65	511	C	PCB-60	63.4							
PCB-7	2.59	J	PCB-31	302		PCB-59/62/75	35.6	C	PCB-80	(0.653)							
PCB-6	70.6		PCB-28/20	349	C	PCB-42	138		PCB-79	3.42	J						
PCB-5	(0.82)		PCB-21/33	64.4	C	PCB-41	18.6		PCB-78	(0.784)							
PCB-8	68.3		PCB-22	92.6		PCB-71/40	240	C	PCB-81	1.34	J						
PCB-14	(0.689)		PCB-36	(0.975)		PCB-64	187		PCB-77	32.2							
PCB-11	30.6	B	PCB-39	2.99	J												
PCB-13/12	25.1	C	PCB-38	(1.05)													
PCB-15	38.4		PCB-35	7.08	J												
			PCB-37	48.4													
<b>Conc.</b>	390		<b>Conc.</b>	2,060					<b>Conc.</b>	3,570							
<b>EMPC</b>	390		<b>EMPC</b>	2,060					<b>EMPC</b>	3,570							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						2,470			2,480		
						Tetra-Hexa						5,330			5,330		
						Hepta-Deca						116			123		
						Mono-Deca						7,920			7,930		

Sample ID: PB091-1SWMID-140318-N						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.302)		PCB-108/119/86/97/125/87	158	C	PCB-155	0.698	J	PCB-165	(0.273)	
PCB-96	5.9	J	PCB-117	7.02	J	PCB-152	(0.235)		PCB-146	11.3	
PCB-103	2.09	J	PCB-116/85	53.2	C	PCB-150	(0.232)		PCB-161	(0.251)	
PCB-94	3.15	J	PCB-110	235		PCB-136	10.2	J	PCB-153/168	54	C
PCB-95	157		PCB-115	3.52	J	PCB-145	(0.245)		PCB-141	12.8	
PCB-100/93	4.64	J C	PCB-82	39.5		PCB-148	(0.322)		PCB-130	5.86	J
PCB-102	12		PCB-111	(0.537)		PCB-151/135	22	C	PCB-137	4.05	J
PCB-98	0.905	J	PCB-120	(0.529)		PCB-154	(0.288)		PCB-164	5.75	J
PCB-88	(0.834)		PCB-107/124	6.34	J C	PCB-144	3.22	J	PCB-163/138/129	82.8	C
PCB-91	44.1		PCB-109	13.9		PCB-147/149	53.7	C	PCB-160	(0.266)	
PCB-84	82.9		PCB-123	3.35	J	PCB-134	5.19	J	PCB-158	8.02	J
PCB-89	8.3	J	PCB-106	[1.49]	J EMPC	PCB-143	(0.362)		PCB-128/166	12.7	J C
PCB-121	(0.541)		PCB-118	148		PCB-139/140	2	J C	PCB-159	0.674	J
PCB-92	37.2		PCB-122	3.31	J	PCB-131	1.49	J	PCB-162	(0.4)	
PCB-113/90/101	177	C	PCB-114	4.42	J	PCB-142	(0.39)		PCB-167	2.78	J
PCB-83	16.4		PCB-105	76.9		PCB-132	27.6		PCB-156/157	8.99	J C
PCB-99	116		PCB-127	(0.583)		PCB-133	1.28	J	PCB-169	(0.446)	
PCB-112	0.68	J	PCB-126	(0.864)							
			<b>Conc.</b>	1,420					<b>Conc.</b>	337	
			<b>EMPC</b>	1,420					<b>EMPC</b>	337	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.26)		PCB-174	11.2		PCB-202	[1.64]	J EMPC	PCB-208	1.04	J
PCB-179	5.36	J	PCB-177	6.16	J	PCB-201	[0.796]	J EMPC	PCB-207	(0.872)	
PCB-184	1.14	J	PCB-181	(0.535)		PCB-204	(0.407)		PCB-206	3.05	J
PCB-176	1.31	J	PCB-171/173	3.16	J C	PCB-197	[0.405]	J EMPC			
PCB-186	(0.309)		PCB-172	2.04	J	PCB-200	[0.601]	J EMPC	<b>Conc.</b>	4.09	
PCB-178	2.4	J	PCB-192	(0.445)		PCB-198/199	7.25	J C	<b>EMPC</b>	4.09	
PCB-175	0.576	J	PCB-180/193	21.8	C	PCB-196	2.62	J			
PCB-187	14.5		PCB-191	(0.415)		PCB-203	[2.83]	J EMPC	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.487)		PCB-170	10.4		PCB-195	1.82	J	PCB-209	5.81	J
PCB-183	6.9	J	PCB-190	1.99	J	PCB-194	4.28	J			
PCB-185	0.912	J	PCB-189	0.617	J	PCB-205	(0.425)				
			<b>Conc.</b>	90.4		<b>Conc.</b>	16				
			<b>EMPC</b>	90.4		<b>EMPC</b>	22.3				

**Sample ID: PB093\_A-1SWMID-140318-N****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	19-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	1.22 L	Sample ID:	A6521_11903_PCB_005-RJ	Date Extracted:	20-Mar-2014
Date Collected:	18-Mar-2014	pH	7	QC Batch No.:	11903	Date Analyzed:	29-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L				%
PCB-77 33'44'-TeCB	21.1				ES PCB-1	47.1	
PCB-81 344'5'-TeCB	1.3			J	ES PCB-3	58.9	
PCB-105 233'44'-PeCB	49.7				ES PCB-4	71.3	
PCB-114 2344'5'-PeCB	2.83			J	ES PCB-15	93.5	
PCB-118 23'44'5'-PeCB	97				ES PCB-19	82	
PCB-123 23'44'5'-PeCB	2.99			J	ES PCB-37	91.4	
PCB-126 33'44'5'-PeCB	ND	0.751			ES PCB-54	102	
PCB-156/157 233'44'5'/233'44'5'-HxCB	6.03			J C	ES PCB-77	96.4	
PCB-167 23'44'55'-HxCB	EMPC		1.77	J	ES PCB-81	93.5	
PCB-169 33'44'55'-HxCB	ND	0.254			ES PCB-104	123	
PCB-189 233'44'55'-HpCB	ND	0.261			ES PCB-105	106	
					ES PCB-114	102	
<b>TEQs (WHO M/H)</b>					ES PCB-118	107	
					ES PCB-123	104	
ND = 0	0.00726		0.00731		ES PCB-126	111	
ND = 0.5 x DL	0.0486		0.0487		ES PCB-153	100	
ND = DL	0.09		0.0901		ES PCB-155	99.5	
					ES PCB-156/157	89.3	
<b>Totals</b>					ES PCB-167	88.9	
Mono-CBs	21.3				ES PCB-169	85.2	
Di-CBs	320		321		ES PCB-170	105	
Tri-CBs	1,540		1,540		ES PCB-180	110	
Tetra-CBs	2,550		2,560		ES PCB-188	120	
Penta-CBs	953		956		ES PCB-189	101	
Hexa-CBs	223		227		ES PCB-202	116	
Hepta-CBs	61.6		63.4		ES PCB-205	92.3	
Octa-CBs	10.4		16		ES PCB-206	94.8	
Nona-CBs	3.03				ES PCB-208	112	
Deca-CB	4.56			J	ES PCB-209	87.5	
					CS PCB-28	100	
Total PCB (Mono-Deca)	5,680		5,710		CS PCB-111	114	
					CS PCB-178	136 V	

Checkcode: 596-561-ZBW


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North Carolina 28405  
USA

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Sample ID: PB093_A-1SWMID-140318-N						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: 19-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 1.22 L			Sample ID: A6521_11903_PCB_005-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 18-Mar-2014			pH: 7			QC Batch No.: 11903			Date Analyzed: 29-Mar-2014								
			Units: pg/L			Checkcode: 596-561-ZBW			Time Analyzed: 01:16:07								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	13.8		PCB-19	71.3		PCB-54	2.47	J	PCB-72	[2.56]	J EMPC						
PCB-2	2.51	J	PCB-30/18	277	C	PCB-50/53	86	C	PCB-68	24.1							
PCB-3	5.06	J B	PCB-17	129		PCB-45	55.5		PCB-57	2.11	J						
			PCB-27	22.2		PCB-51	55.5		PCB-58	0.891	J						
<b>Conc.</b>	21.3		PCB-24	[1.6]	J EMPC	PCB-46	30.8		PCB-67	6.63	J						
<b>EMPC</b>	21.3		PCB-16	79.6		PCB-52	429		PCB-63	11.4							
			PCB-32	137		PCB-73	[0.842]	J EMPC	PCB-61/70/74/76	331	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	2.77	J	PCB-43	14.7		PCB-66	218							
PCB-4	116		PCB-23	(0.867)		PCB-69/49	245	C	PCB-55	3.21	J						
PCB-10	3.22	J	PCB-26/29	77.6	C	PCB-48	45.5		PCB-56	113							
PCB-9	3.57	J	PCB-25	91.4		PCB-44/47/65	378	C	PCB-60	41.6							
PCB-7	2.28	J	PCB-31	240		PCB-59/62/75	26.8	C	PCB-80	(0.66)							
PCB-6	63.2		PCB-28/20	262	C	PCB-42	97.8		PCB-79	[1.67]	J EMPC						
PCB-5	[0.926]	J EMPC	PCB-21/33	43.6	C	PCB-41	16.2		PCB-78	(0.793)							
PCB-8	52.1		PCB-22	68.6		PCB-71/40	163	C	PCB-81	1.3	J						
PCB-14	(0.473)		PCB-36	(0.832)		PCB-64	132		PCB-77	21.1							
PCB-11	27.6	B	PCB-39	(0.809)													
PCB-13/12	20.6	C	PCB-38	(0.9)													
PCB-15	30.8		PCB-35	[4.69]	J EMPC												
			PCB-37	34.1													
<b>Conc.</b>	320		<b>Conc.</b>	1,540					<b>Conc.</b>	2,550							
<b>EMPC</b>	321		<b>EMPC</b>	1,540					<b>EMPC</b>	2,560							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						1,880			1,880		
						Tetra-Hexa						3,730			3,740		
						Hepta-Deca						79.6			87		
						Mono-Deca			5,680			5,710					



Sample ID: PB093_A-1SWMID-140318-N						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.208)		PCB-108/119/86/97/125/87	106	C	PCB-155	[0.615]	J EMPC	PCB-165	(0.233)	
PCB-96	3.65	J	PCB-117	3.17	J	PCB-152	(0.205)		PCB-146	7.46	J
PCB-103	1.5	J	PCB-116/85	36	C	PCB-150	(0.201)		PCB-161	(0.214)	
PCB-94	2.07	J	PCB-110	158		PCB-136	6.55	J	PCB-153/168	37	C
PCB-95	106		PCB-115	4.31	J	PCB-145	(0.213)		PCB-141	8.12	J
PCB-100/93	3.24	J C	PCB-82	25.5		PCB-148	(0.274)		PCB-130	4.2	J
PCB-102	7.95	J	PCB-111	(0.459)		PCB-151/135	15	J B C	PCB-137	3.4	J
PCB-98	0.752		PCB-120	(0.453)		PCB-154	0.61	J	PCB-164	3.16	J
PCB-88	(0.713)		PCB-107/124	4.44	J C	PCB-144	2.22	J	PCB-163/138/129	55.9	C
PCB-91	29.3		PCB-109	8.98		PCB-147/149	36.6	C	PCB-160	(0.227)	
PCB-84	55.8		PCB-123	2.99	J	PCB-134	2.8	J	PCB-158	5.31	J
PCB-89	5.2	J	PCB-106	[1.56]	J EMPC	PCB-143	[0.444]	J EMPC	PCB-128/166	9.43	J C
PCB-121	(0.463)		PCB-118	97		PCB-139/140	[1.1]	J EMPC C	PCB-159	[0.351]	J EMPC
PCB-92	26.1		PCB-122	[1.88]	J EMPC	PCB-131	0.87	J	PCB-162	0.283	J
PCB-113/90/101	122	C	PCB-114	2.83	J	PCB-142	(0.332)		PCB-167	[1.77]	J EMPC
PCB-83	11.4		PCB-105	49.7		PCB-132	17.1	B	PCB-156/157	6.03	J C
PCB-99	78.3		PCB-127	(0.475)		PCB-133	0.95	J	PCB-169	(0.254)	
PCB-112	0.604	J	PCB-126	(0.751)							
			<b>Conc.</b>	953					<b>Conc.</b>	223	
			<b>EMPC</b>	956					<b>EMPC</b>	227	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.203)		PCB-174	8.03	J	PCB-202	1.47	J	PCB-208	0.997	J
PCB-179	3.96	J	PCB-177	4.52	J	PCB-201	[0.799]	J EMPC	PCB-207	(0.632)	
PCB-184	[0.889]	J EMPC	PCB-181	(0.426)		PCB-204	(0.246)		PCB-206	2.04	J
PCB-176	[0.977]	J EMPC	PCB-171/173	2.42	J C	PCB-197	(0.24)				
PCB-186	(0.24)		PCB-172	1.43	J	PCB-200	0.592	J	<b>Conc.</b>	3.03	
PCB-178	1.74	J	PCB-192	(0.354)		PCB-198/199	4.58	J C	<b>EMPC</b>	3.03	
PCB-175	(0.425)		PCB-180/193	16	J C	PCB-196	[1.5]	J EMPC			
PCB-187	9.88		PCB-191	(0.33)		PCB-203	2.5	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.388)		PCB-170	7.03	J	PCB-195	1.3	J	PCB-209	4.56	J
PCB-183	4.27	J	PCB-190	1.32	J	PCB-194	[3.25]	J EMPC			
PCB-185	0.909	J	PCB-189	(0.261)		PCB-205	(0.357)				
			<b>Conc.</b>	61.6		<b>Conc.</b>	10.4				
			<b>EMPC</b>	63.4		<b>EMPC</b>	16				

**Sample ID: PB095-1SWMID-140318-N****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	19-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	1.22 L	Sample ID:	A6521_11903_PCB_006-RJ	Date Extracted:	20-Mar-2014
Date Collected:	18-Mar-2014	pH	7	QC Batch No.:	11903	Date Analyzed:	29-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	28.8				ES PCB-1	39.6	
PCB-81 344'5'-TeCB	1.52			J	ES PCB-3	50.3	
PCB-105 233'44'-PeCB	71.9				ES PCB-4	59.7	
PCB-114 2344'5'-PeCB	4.12			J	ES PCB-15	84.9	
PCB-118 23'44'5'-PeCB	136				ES PCB-19	70.6	
PCB-123 23'44'5'-PeCB	3.91			J	ES PCB-37	78.8	
PCB-126 33'44'5'-PeCB	EMPC		0.921	J	ES PCB-54	91.7	
PCB-156/157 233'44'5'/233'44'5'-HxCB	8.07			J C	ES PCB-77	83.8	
PCB-167 23'44'55'-HxCB	2.73			J	ES PCB-81	81.5	
PCB-169 33'44'55'-HxCB	ND	0.281			ES PCB-104	103	
PCB-189 233'44'55'-HpCB	EMPC		0.362	J	ES PCB-105	90.3	
					ES PCB-114	87.5	
<b>TEQs (WHO M/H)</b>					ES PCB-118	90.3	
					ES PCB-123	87.8	
ND = 0	0.0102		0.102		ES PCB-126	92.5	
ND = 0.5 x DL	0.0515		0.106		ES PCB-153	84.4	
ND = DL	0.0929		0.111		ES PCB-155	81.6	
					ES PCB-156/157	74.6	
<b>Totals</b>					ES PCB-167	76	
Mono-CBs	21.2				ES PCB-169	73.2	
Di-CBs	305				ES PCB-170	89.4	
Tri-CBs	1,730		1,730		ES PCB-180	92.9	
Tetra-CBs	3,100		3,100		ES PCB-188	102	
Penta-CBs	1,320		1,320		ES PCB-189	86.2	
Hexa-CBs	295		299		ES PCB-202	97.2	
Hepta-CBs	82.5		85.1		ES PCB-205	81.4	
Octa-CBs	22.1		23.1		ES PCB-206	83.2	
Nona-CBs			3.29		ES PCB-208	93.5	
Deca-CB	5.17			J	ES PCB-209	78.2	
					CS PCB-28	112	
Total PCB (Mono-Deca)	6,880		6,890		CS PCB-111	124	
					CS PCB-178	148 V	

Checkcode: 161-330-MBY


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USA

T: 910 794-1613

Sample ID: PB095-1SWMID-140318-N						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: 19-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 1.22 L			Sample ID: A6521_11903_PCB_006-RJ			Date Extracted: 20-Mar-2014								
Date Collected: 18-Mar-2014			pH: 7			QC Batch No.: 11903			Date Analyzed: 29-Mar-2014								
			Units: pg/L			Checkcode: 161-330-MBY			Time Analyzed: 02:11:12								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	13		PCB-19	77.1		PCB-54	2.82	J	PCB-72	3.46	J						
PCB-2	2.58	J	PCB-30/18	296	C	PCB-50/53	103	C	PCB-68	23.2							
PCB-3	5.66	J B	PCB-17	139		PCB-45	64.1		PCB-57	[2.5]	J EMPC						
			PCB-27	24.3		PCB-51	60.8		PCB-58	1.61	J						
<b>Conc.</b>	21.2		PCB-24	1.98	J	PCB-46	35.5		PCB-67	8.59							
<b>EMPC</b>	21.2		PCB-16	86.6		PCB-52	530		PCB-63	14.6							
			PCB-32	158		PCB-73	1.35	J	PCB-61/70/74/76	287	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	3.06	J	PCB-43	17.9		PCB-66	300							
PCB-4	111		PCB-23	(0.833)		PCB-69/49	303	C	PCB-55	3.8	J						
PCB-10	3.05	J	PCB-26/29	84.4	C	PCB-48	58		PCB-56	149							
PCB-9	3.48	J	PCB-25	104		PCB-44/47/65	473	C	PCB-60	60.6							
PCB-7	2.06	J	PCB-31	267		PCB-59/62/75	32.8	C	PCB-80	(0.592)							
PCB-6	55.5		PCB-28/20	310	C	PCB-42	127		PCB-79	2.71	J						
PCB-5	(0.309)		PCB-21/33	49	C	PCB-41	20.6		PCB-78	(0.711)							
PCB-8	51.7		PCB-22	80.2		PCB-71/40	214	C	PCB-81	1.52	J						
PCB-14	(0.26)		PCB-36	(0.8)		PCB-64	169		PCB-77	28.8							
PCB-11	26.2	B	PCB-39	[1.07]	J EMPC												
PCB-13/12	20.8	C	PCB-38	(0.865)													
PCB-15	31.3		PCB-35	5.94	J												
			PCB-37	41.1													
<b>Conc.</b>	305		<b>Conc.</b>	1,730					<b>Conc.</b>	3,100							
<b>EMPC</b>	305		<b>EMPC</b>	1,730					<b>EMPC</b>	3,100							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						2,050			2,050		
						Tetra-Hexa						4,710			4,720		
						Hepta-Deca						110			117		
						Mono-Deca			6,880			6,890					

Sample ID: PB095-1SWMID-140318-N						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.17)		PCB-108/119/86/97/125/87	143	C	PCB-155	0.818	J	PCB-165	(0.181)	
PCB-96	5.36	J	PCB-117	5.91	J	PCB-152	0.25	J	PCB-146	9.47	
PCB-103	2.13	J	PCB-116/85	50.1	C	PCB-150	(0.15)		PCB-161	(0.166)	
PCB-94	2.77	J	PCB-110	219		PCB-136	9.64		PCB-153/168	48.6	C
PCB-95	145		PCB-115	4.42	J	PCB-145	(0.159)		PCB-141	10.9	
PCB-100/93	3.61	J C	PCB-82	37.6		PCB-148	(0.213)		PCB-130	5.76	J
PCB-102	11.1		PCB-111	(0.497)		PCB-151/135	19.1	B C	PCB-137	4.09	J
PCB-98	1.28	J	PCB-120	[0.49]	EMPC	PCB-154	1	J	PCB-164	4.12	J
PCB-88	(0.771)		PCB-107/124	6.06	J C	PCB-144	2.77	J	PCB-163/138/129	72.4	C
PCB-91	40.2		PCB-109	12.6		PCB-147/149	47.5	C	PCB-160	(0.176)	
PCB-84	75.4		PCB-123	3.91	J	PCB-134	[3.78]	J EMPC	PCB-158	6.96	J
PCB-89	7.14	J	PCB-106	1.42	J	PCB-143	0.483	J	PCB-128/166	11.7	J C
PCB-121	(0.501)		PCB-118	136		PCB-139/140	1.59	J C	PCB-159	[0.458]	J EMPC
PCB-92	35.5		PCB-122	3.07	J	PCB-131	1.29	J	PCB-162	(0.264)	
PCB-113/90/101	167	C	PCB-114	4.12	J	PCB-142	(0.257)		PCB-167	2.73	J
PCB-83	14.8		PCB-105	71.9		PCB-132	24.7		PCB-156/157	8.07	J C
PCB-99	108		PCB-127	(0.537)		PCB-133	1.06	J	PCB-169	(0.281)	
PCB-112	0.943	J	PCB-126	0.921	J EMPC						
			<b>Conc.</b>	1,320					<b>Conc.</b>	295	
			<b>EMPC</b>	1,320					<b>EMPC</b>	299	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.166)		PCB-174	10.6		PCB-202	1.92	J	PCB-208	[1.05]	J EMPC
PCB-179	4.66	J	PCB-177	5.74	J	PCB-201	1.1	J	PCB-207	(0.689)	
PCB-184	1.58	J	PCB-181	(0.369)		PCB-204	(0.219)		PCB-206	[2.24]	J EMPC
PCB-176	1.55	J	PCB-171/173	2.95	J C	PCB-197	[0.444]	J EMPC			
PCB-186	(0.196)		PCB-172	[1.83]	J EMPC	PCB-200	[0.559]	J EMPC	<b>Conc.</b>	0	
PCB-178	2.86	J	PCB-192	(0.307)		PCB-198/199	6.82	J C	<b>EMPC</b>	3.29	
PCB-175	[0.408]	J EMPC	PCB-180/193	21	C	PCB-196	2.43	J			
PCB-187	13.4		PCB-191	0.437	J	PCB-203	3.69	J	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.336)		PCB-170	9.54		PCB-195	1.75	J	PCB-209	5.17	J
PCB-183	5.49	J	PCB-190	1.75	J	PCB-194	4.38	J			
PCB-185	0.957	J	PCB-189	[0.362]	J EMPC	PCB-205	(0.334)				
			<b>Conc.</b>	82.5		<b>Conc.</b>	22.1				
			<b>EMPC</b>	85.1		<b>EMPC</b>	23.1				

**Sample ID: Method Blank A6521****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6521	Date Received:	n/a
Project ID:	Patrick Bayou	Weight/Volume:	1.00 L	Sample ID:	MB1_11903_PCB_TLX-RJ2	Date Extracted:	20-Mar-2014
Date Collected:	n/a	pH	n/a	QC Batch No.:	11903	Date Analyzed:	28-Mar-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L				%
PCB-77 33'44'-TeCB	ND	1.64			ES PCB-1		95.7
PCB-81 344'5'-TeCB	ND	1.81			ES PCB-3		110
PCB-105 233'44'-PeCB	ND	1.05			ES PCB-4		133
PCB-114 2344'5'-PeCB	ND	0.995			ES PCB-15		133
PCB-118 23'44'5'-PeCB	2.91			J	ES PCB-19		136
PCB-123 23'44'5'-PeCB	ND	0.992			ES PCB-37		114
PCB-126 33'44'5'-PeCB	ND	1.36			ES PCB-54		147
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	1.45		C	ES PCB-77		120
PCB-167 23'44'55'-HxCB	ND	0.906			ES PCB-81		117
PCB-169 33'44'55'-HxCB	ND	1.08			ES PCB-104		158 V
PCB-189 233'44'55'-HpCB	ND	1.02			ES PCB-105		128
					ES PCB-114		128
<b>TEQs (WHO M/H)</b>					ES PCB-118		134
					ES PCB-123		130
ND = 0	0.0000873		0.0000873		ES PCB-126		132
ND = 0.5 x DL	0.0847		0.0847		ES PCB-153		123
ND = DL	0.169		0.169		ES PCB-155		125
					ES PCB-156/157		107
<b>Totals</b>					ES PCB-167		111
Mono-CBs	2.77				ES PCB-169		108
Di-CBs	8.82				ES PCB-170		126
Tri-CBs	2.06		6.84		ES PCB-180		126
Tetra-CBs	12.8		14.8		ES PCB-188		149
Penta-CBs	12.4		20.9		ES PCB-189		126
Hexa-CBs	8.51		13.4		ES PCB-202		138
Hepta-CBs	ND	1.21			ES PCB-205		121
Octa-CBs	ND	1.27			ES PCB-206		133
Nona-CBs	ND	3.37			ES PCB-208		139
Deca-CB	ND	1.31			ES PCB-209		128
					CS PCB-28		124
Total PCB (Mono-Deca)	47.4		67.5		CS PCB-111		139 V
					CS PCB-178		161 V

Checkcode: 680-324-FDZ


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USA

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Sample ID: Method Blank A6521						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6521			Date Received: n/a								
Project ID: Patrick Bayou			Weight/Volume: 1.00 L			Sample ID: MB1_11903_PCB_TLX-RJ2			Date Extracted: 20-Mar-2014								
Date Collected: n/a			pH: n/a			QC Batch No.: 11903			Date Analyzed: 28-Mar-2014								
			Units: pg/L			Checkcode: 680-324-FDZ			Time Analyzed: 19:45:47								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	1.08	J	PCB-19	(2.56)		PCB-54	(0.971)		PCB-72	(1.6)							
PCB-2	(1.22)		PCB-30/18	(1.88)	C	PCB-50/53	(1.51)	C	PCB-68	(1.5)							
PCB-3	1.69	J	PCB-17	(2.21)		PCB-45	(1.66)		PCB-57	(1.66)							
			PCB-27	(1.61)		PCB-51	(1.55)		PCB-58	(1.58)							
<b>Conc.</b>	<b>2.77</b>		PCB-24	(1.69)		PCB-46	(1.89)		PCB-67	(1.52)							
<b>EMPC</b>	<b>2.77</b>		PCB-16	(2.97)		PCB-52	5.34	J	PCB-63	(1.44)							
			PCB-32	(1.52)		PCB-73	(1.16)		PCB-61/70/74/76	3.84	J C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.64)		PCB-43	(1.84)		PCB-66	(1.71)							
PCB-4	(2.05)		PCB-23	(1.62)		PCB-69/49	[2]	J EMPC C	PCB-55	(1.71)							
PCB-10	(1.31)		PCB-26/29	(1.6)	C	PCB-48	(1.54)		PCB-56	(1.73)							
PCB-9	(2.03)		PCB-25	(1.62)		PCB-44/47/65	3.67	J C	PCB-60	(1.68)							
PCB-7	(1.78)		PCB-31	[1.96]	J EMPC	PCB-59/62/75	(1.11)	C	PCB-80	(1.47)							
PCB-6	(1.91)		PCB-28/20	[2.82]	J EMPC C	PCB-42	(1.7)		PCB-79	(1.47)							
PCB-5	(1.9)		PCB-21/33	2.06	J C	PCB-41	(1.82)		PCB-78	(1.76)							
PCB-8	(1.89)		PCB-22	(1.7)		PCB-71/40	(1.52)	C	PCB-81	(1.81)							
PCB-14	(1.59)		PCB-36	(1.55)		PCB-64	(1.05)		PCB-77	(1.64)							
PCB-11	8.82	J	PCB-39	(1.51)													
PCB-13/12	(1.86)	C	PCB-38	(1.68)													
PCB-15	(1.92)		PCB-35	(1.72)													
			PCB-37	(1.9)													
<b>Conc.</b>	<b>8.82</b>		<b>Conc.</b>	<b>2.06</b>					<b>Conc.</b>	<b>12.8</b>							
<b>EMPC</b>	<b>8.82</b>		<b>EMPC</b>	<b>6.84</b>					<b>EMPC</b>	<b>14.8</b>							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						13.6			18.4		
						Tetra-Hexa						33.7			49.1		
						Hepta-Deca						0			0		
						Mono-Deca			47.4			67.5					

Sample ID: Method Blank A6521						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.755)		PCB-108/119/86/97/125/87	[2.67]	J EMPC C	PCB-155	(0.61)		PCB-165	(0.867)	
PCB-96	(0.915)		PCB-117	(1.02)		PCB-152	(0.675)		PCB-146	(1.02)	
PCB-103	(1.29)		PCB-116/85	(1.37)	C	PCB-150	(0.665)		PCB-161	(0.796)	
PCB-94	(1.52)		PCB-110	5.2	J	PCB-136	(0.726)		PCB-153/168	[2.85]	J EMPC C
PCB-95	4.27	J	PCB-115	(1.04)		PCB-145	(0.703)		PCB-141	(1.13)	
PCB-100/93	(1.4)	C	PCB-82	(1.75)		PCB-148	(1.02)		PCB-130	(1.28)	
PCB-102	(1.2)		PCB-111	(0.996)		PCB-151/135	2	J C	PCB-137	(1.05)	
PCB-98	(1.63)		PCB-120	(0.982)		PCB-154	(0.913)		PCB-164	(0.822)	
PCB-88	(1.55)		PCB-107/124	(1.09)	C	PCB-144	(1.03)		PCB-163/138/129	2.96	J C
PCB-91	(1.31)		PCB-109	(0.97)		PCB-147/149	3.55	J C	PCB-160	(0.845)	
PCB-84	(1.68)		PCB-123	(0.992)		PCB-134	(1.26)		PCB-158	(0.765)	
PCB-89	(1.58)		PCB-106	(1.08)		PCB-143	(1.15)		PCB-128/166	(1.17)	C
PCB-121	(1)		PCB-118	2.91	J	PCB-139/140	(1.04)	C	PCB-159	(0.956)	
PCB-92	(1.48)		PCB-122	(1.16)		PCB-131	(1.2)		PCB-162	(0.954)	
PCB-113/90/101	[4.17]	J EMPC C	PCB-114	(0.995)		PCB-142	(1.24)		PCB-167	(0.906)	
PCB-83	(1.73)		PCB-105	(1.05)		PCB-132	[2.01]	J EMPC	PCB-156/157	(1.45)	C
PCB-99	[1.67]	J EMPC	PCB-127	(1.05)		PCB-133	(1.12)		PCB-169	(1.08)	
PCB-112	(1.03)		PCB-126	(1.36)							
			<b>Conc.</b>	12.4					<b>Conc.</b>	8.51	
			<b>EMPC</b>	20.9					<b>EMPC</b>	13.4	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.882)		PCB-174	(1.6)		PCB-202	(1.24)		PCB-208	(2.71)	
PCB-179	(0.994)		PCB-177	(1.63)		PCB-201	(1.14)		PCB-207	(2.59)	
PCB-184	(1.06)		PCB-181	(1.4)		PCB-204	(1.21)		PCB-206	(4.03)	
PCB-176	(0.978)		PCB-171/173	(1.6)	C	PCB-197	(1.18)				
PCB-186	(1.05)		PCB-172	(1.54)		PCB-200	(1.2)		<b>Conc.</b>	0	
PCB-178	(1.45)		PCB-192	(1.17)		PCB-198/199	(1.75)	C	<b>EMPC</b>	0	
PCB-175	(1.4)		PCB-180/193	(1.21)	C	PCB-196	(1.64)				
PCB-187	(1.31)		PCB-191	(1.09)		PCB-203	(1.56)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.28)		PCB-170	(1.52)		PCB-195	(1.91)		PCB-209	(1.31)	
PCB-183	(1.26)		PCB-190	(1.08)		PCB-194	(1.71)				
PCB-185	(1.36)		PCB-189	(1.02)		PCB-205	(1.3)				
			<b>Conc.</b>	0		<b>Conc.</b>	0				
			<b>EMPC</b>	0		<b>EMPC</b>	0				

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	112	50 - 150	Y
PCB-3 4-MoCB	50	113	50 - 150	Y
PCB-4 22'-DiCB	50	94.1	50 - 150	Y
PCB-15 44'-DiCB	50	104	50 - 150	Y
PCB-19 22'6'-TrCB	50	96.8	50 - 150	Y
PCB-37 344'-TrCB	50	112	50 - 150	Y
PCB-54 22'66'-TeCB	50	94	50 - 150	Y
PCB-77 33'44'-TeCB	50	102	50 - 150	Y
PCB-81 344'5'-TeCB	50	105	50 - 150	Y
PCB-104 22'466'-PeCB	50	93.3	50 - 150	Y
PCB-105 233'44'-PeCB	50	97.6	50 - 150	Y
PCB-114 2344'5'-PeCB	50	99.2	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	97.6	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	98.8	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	105	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	96.2	50 - 150	Y
PCB-156/157 ...-HxCB	100	98.9	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	97.5	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	95.8	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	92.8	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	102	50 - 150	Y
PCB-202 22'33'55'66'-OxCB	50	97.9	50 - 150	Y
PCB-205 233'44'55'6-OxCB	50	98.1	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	99.7	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	99.2	50 - 150	Y
PCB-209 DeCB	50	96.9	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.



**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	86.7	15	-	140	Y
ES PCB-3	100	89.1	15	-	140	Y
ES PCB-4	100	110	30	-	140	Y
ES PCB-15	100	107	30	-	140	Y
ES PCB-19	100	108	30	-	140	Y
ES PCB-37	100	96	30	-	140	Y
ES PCB-54	100	119	30	-	140	Y
ES PCB-77	100	100	30	-	140	Y
ES PCB-81	100	98.9	30	-	140	Y
ES PCB-104	100	129	30	-	140	Y
ES PCB-105	100	109	30	-	140	Y
ES PCB-114	100	106	30	-	140	Y
ES PCB-118	100	109	30	-	140	Y
ES PCB-123	100	106	30	-	140	Y
ES PCB-126	100	117	30	-	140	Y
ES PCB-153	100	98.4	30	-	140	Y
ES PCB-155	100	97	30	-	140	Y
ES PCB-156/157	200	90.4	30	-	140	Y
ES PCB-167	100	90.6	30	-	140	Y
ES PCB-169	100	97.7	30	-	140	Y
ES PCB-170	100	100	30	-	140	Y
ES PCB-180	100	102	30	-	140	Y
ES PCB-188	100	119	30	-	140	Y
ES PCB-189	100	102	30	-	140	Y
ES PCB-202	100	111	30	-	140	Y
ES PCB-205	100	99.2	30	-	140	Y
ES PCB-206	100	107	30	-	140	Y
ES PCB-208	100	111	30	-	140	Y
ES PCB-209	100	102	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	98.8	40	-	125	Y
CS PCB-111	100	112	40	-	125	Y
CS PCB-178	100	129	40	-	125	N

Processed: 04 Apr 2014 09:49 Analyst: ds



# Sample Receipt Notification

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 19-Mar-14 at 10:20  
**AP Project name:** A6521  
**Requested TAT:** 30 days  
**Projected due date:** 18-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB083-1SWMID-140318-N	A6521_001	WS	2	1.25L Amber	18-Mar-14	15:23	2.4	1, 2	798261053444
PB083-1SWMID-140318-D	A6521_002	WS	2	1.25L Amber	18-Mar-14	15:23	2.4	1, 2	798261053444
PB087-1SWMID-140318-N	A6521_003	WS	2	1.25L Amber	18-Mar-14	15:53	2.4	1, 2	798261053444
PB091-1SWMID-140318-N	A6521_004	WS	2	1.25L Amber	18-Mar-14	17:08	2.4	1, 2	798261053444
PB093_A-1SWMID-140318-N	A6521_005	WS	2	1.25L Amber	18-Mar-14	17:37	2.4	1, 2	798261053444
PB095-1SWMID-140318-N	A6521_006	WS	2	1.25L Amber	18-Mar-14	18:47	2.4	1, 2	798261053444

**Preservation Type:** Ice - Good Condition      **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Christina Newkirk      Logged in by: Christina Newkirk

QC'ed by: AK 19 Mar 14



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

AL6521

**PROJECT INFO:**

PROJECT: *Patrick Bayou*  
 PO. #:  
 QUOTE #:  
 SITE REF: *040284-01.06 Task 4*  
 TURN AROUND TIME: *Standard*  
 REPORT LEVEL: (see reverse)  Level I  Level II  Level IV  
 SPECIAL DELIVERABLES:  State of Origin:  
 FDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Delaney Peterson*  
 CONTACT: *Anchor QEA, LLC*  
 ADDRESS: *720 Olive Way, Suite 1900*  
 PHONE: *Seattle WA 98101*  
*206-298-9130*  
 EMAIL: *dpeterson@anchoragea.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

**INVOICE TO:** ( CHECK IF SAME)

COMPANY: *PNL* CONTACT: *Bob Piniewski*  
 ADDRESS:  
 PHONE: *919-435-0934*  
 EMAIL: *bobp@projectnavigator.com*

PRESERVATIVE			REMARKS
None	None	HCl	
ANALYSIS & METHOD			
PCB Congaues	TSS	TOC	
✓	✓	✓	
✓	✓	✓	
✓	✓	✓	
✓	✓	✓	

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	PCB Congaues	TSS	TOC	REMARKS
				MS	MSD	DUP							
	<i>PB083-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1523</i>				<i>G</i>	<i>WS</i>	<i>5</i>	✓	✓	✓	
	<i>PB083-15WMID-140318-D</i>	<i>3/18/14</i>	<i>1523</i>				<i>G</i>	<i>WS</i>	<i>5</i>	✓	✓	✓	
	<i>PB087-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1553</i>				<i>G</i>	<i>WS</i>	<i>5</i>	✓	✓	✓	
	<i>PB091-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1708</i>				<i>G</i>	<i>WS</i>	<i>5</i>	✓	✓	✓	
	<i>PB093-A-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1737</i>				<i>G</i>	<i>WS</i>	<i>5</i>	✓	✓	✓	
	<i>PB095-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1847</i>				<i>G</i>	<i>WS</i>	<i>5</i>	✓	✓	✓	

COLLECTED / RELINQUISHED BY (1): <i>Jason Kase</i>	DATE: <i>3/18/14</i>	TIME: <i>1929</i>	RECEIVED BY: <i>FedEx</i>	RECEIVED BY LABORATORY: <i>Christine Neuk</i>	DATE: <i>19 MAR 14</i>	TIME: <i>1020</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> ABSENT	SAMPLE RECEIPT TEMP: °C <i>24, 22</i>	CARRIER: <i>FedEx</i> TRACKING #:
NOTES:						

**SGS**

## Project Initiation Form

Project Number: A6521Initiation Date: 19-Mar-14Client Name: ANCHOR QEASample Matrix: AqueousAnalysis Method: 1668ATAT: 30 daysProject Manager: Amy

### Special Instructions

1668A w/ OPR

### Reporting Instructions

1668A w/ OPR  
Anchor Equis EDDPM Initials: akornega Date: 19-Mar-2014

TRANSFER: ON 3/25/14

RECEIVED: *MS* 25 MAR 2014

SGS		1668A		Mini Acid		Water					
Project #	A6521	Batch #	11903	Extract Init/Date:	MAR 20 14	ASTES Init/Date:	MAR 20 14	Transfer Init/Date:	ON 3/24/14		
AP Sample ID	Client Sample ID	Volume (mL)	Talex #	SDS #	RV		(Td)	MS Clean-up	Observations		
					#	Initials					
A6521_11903_001	PB083-1SWMID-140318-N	1193	4	-	1	YB	-	MK	yellowish		
A6521_11903_002	PB083-1SWMID-140318-D	1175	5	-	1	YB	-	MK	see 001		
A6521_11903_003	PB087-1SWMID-140318-N	931	6	-	3	YB	-	MK	see 001		
A6521_11903_004	PB091-1SWMID-140318-N	958	7	-	1	YB	-	MK	see 001		
A6521_11903_005	PB093_A-1SWMID-140318-N	1221	8	-	3	YB	-	MK	see 001		
A6521_11903_006	PB095-1SWMID-140318-N	1221	9	-	1	YB	-	MK	see 001		
MB1_11903	Method Blank	1000	1	-	1	YB	-	MK	Talex DI H <sub>2</sub> O 02272014		
OPR1_11903	0_11903_OPR001	1000	2	-	3	YB	-	MK	Talex DI H <sub>2</sub> O 02272014		
					3/21/2014			3/21/14			
Special Instructions:					Cycle Time			Supply IDs			
1668A w/ OPR					Start: 11:15 am			Toluene	DJ460	Acid Silica	03142014
					Stop: 2:03 pm			CH <sub>2</sub> Cl <sub>2</sub>	DH733	Base Silica	01102014
								Sand	—	HydroMatrix	—
								Florisil	03182014	Tetradecane	04112013
					Start:			Hexane	DJ286	NH <sub>2</sub> SO <sub>4</sub>	02242014
					Stop:			Silica	12192013	AgNO <sub>3</sub> K-Sulfate	03202014



1668A

Aqueous

Project # A6521 Batch # 11903

**Inter-Department Communication Sheet**

*eeAD 31MAY14*

**Special Instructions**

1668A w/ OPR



SGS		1668A		Water			
Project #		A6521		Batch #		11903	
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
Spiker Initials/Date: <i>mn 3/20/14</i> <i>mn 3/21/14</i> <i>mn 3/21/14</i> <i>NA 3/24/14</i>							
AP Sample ID	Client Sample ID	PCB ES	PCB AX 209	PCB CS	PCB JS		
		Amount: 20 $\mu$ L	Amount: 20 $\mu$ L	Amount: 20 $\mu$ L	Amount: 10 $\mu$ L		
		Observer Initials	Observer Initials	Observer Initials	Observer Initials		
A6521_11903_001	PB083-1SWMID-140318-N	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
A6521_11903_002	PB083-1SWMID-140318-D	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
A6521_11903_003	PB087-1SWMID-140318-N	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
A6521_11903_004	PB091-1SWMID-140318-N	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
A6521_11903_005	PB093_A-1SWMID-140318-N	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
A6521_11903_006	PB095-1SWMID-140318-N	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
MB1_11903	Method Blank	<i>MK</i>	<i>-</i>	<i>MK</i>	<i>a</i>		
OPR1_11903	0_11903_OPR001	<i>MK</i>	<i>MK</i>	<i>MK</i>	<i>a</i>		
		<i>3/20/14</i>	<i>3/20/14</i>	<i>3/21/14</i>	<i>3/24/14</i>		
Standard Information							
Std. Type		PCB ES	AX 209	PCB CS/SS	PCB JS		
Spike ID		<i>10292013B</i>	<i>10292013</i>	<i>10292013B</i>	<i>10292013B</i>		
SIL #		<i>13-96-1</i>	<i>13-78-1</i>	<i>13-96-2</i>	<i>13-96-3</i>		
Concentration		100	50	100	200		
Units		pg/ $\mu$ L	pg/ $\mu$ L	pg/ $\mu$ L	pg/ $\mu$ L		
Exp. Date		<i>12/19/14</i>	<i>10/29/14</i>	<i>12/19/14</i>	<i>12-19-14</i>		
Spike amount ( $\mu$ L)		20	20	20	10		



2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 19-Mar-14 at 10:20  
**AP Project name:** A6521  
**Requested TAT:** 30 days  
**Projected due date:** 18-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB083-1SWMID-140318-N	A6521_001	WS	2	1.25L Amber	18-Mar-14	15:23	2.4	1, 2	798261053444
PB083-1SWMID-140318-D	A6521_002	WS	2	1.25L Amber	18-Mar-14	15:23	2.4	1, 2	798261053444
PB087-1SWMID-140318-N	A6521_003	WS	2	1.25L Amber	18-Mar-14	15:53	2.4	1, 2	798261053444
PB091-1SWMID-140318-N	A6521_004	WS	2	1.25L Amber	18-Mar-14	17:08	2.4	1, 2	798261053444
PB093_A-1SWMID-140318-N	A6521_005	WS	2	1.25L Amber	18-Mar-14	17:37	2.4	1, 2	798261053444
PB095-1SWMID-140318-N	A6521_006	WS	2	1.25L Amber	18-Mar-14	18:47	2.4	1, 2	798261053444

**Preservation Type:** Ice - Good Condition    **Sample Seals:** No

**Notes/Comments:**  
 Samples received intact

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Christina Newkirk    Logged in by: Christina Newkirk

QC'ed by: AK 19 Mar 14



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

A6521

**PROJECT INFO:**

PROJECT: *Patrick Bayou*  
 PO. #:  
 QUOTE #:  
 SITE REF: *0410294-01.06 Task 4*  
 TURN AROUND TIME: *Standard*  
 REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:  
 MSD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *Delaney Peterson*  
 CONTACT: *Anchor QEA, LLC*  
 ADDRESS: *720 Olive Way, Suite 1900*  
 PHONE: *Seattle WA 98101*  
 206-298-9130  
 EMAIL: *dpeterson@anchorqea.com*

**INVOICE TO:** ( CHECK IF SAME)

COMPANY: *PNL* CONTACT: *Bob*  
 ADDRESS: *Priniewski*  
 PHONE: *919-435-0934*  
 EMAIL: *bobp@projectnavigator.com*

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE									
<i>none</i>	<i>none</i>	<i>HCl</i>							

ANALYSIS & METHOD									
<i>PCB Conges</i>	<i>TSS</i>	<i>TOC</i>							

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY	REMARKS
				MS	MSD	DUP				
	<i>PB083-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1523</i>				<i>G</i>	<i>WS</i>	<i>5</i>	<i>[Large handwritten scribble]</i>
	<i>PB083-15WMID-140318-D</i>	<i>3/18/14</i>	<i>1523</i>				<i>G</i>	<i>WS</i>	<i>5</i>	
	<i>PB087-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1553</i>				<i>G</i>	<i>WS</i>	<i>5</i>	
	<i>PB091-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1708</i>				<i>G</i>	<i>WS</i>	<i>5</i>	
	<i>PB093-A-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1737</i>				<i>G</i>	<i>WS</i>	<i>5</i>	
	<i>PB095-15WMID-140318-N</i>	<i>3/18/14</i>	<i>1847</i>				<i>G</i>	<i>WS</i>	<i>5</i>	

COLLECTED/RELINQUISHED BY (1): <i>Jason Kase</i>	DATE: <i>3/18/14</i>	TIME: <i>1929</i>	RECEIVED BY: <i>FedEx</i>	RECEIVED BY LABORATORY: <i>Christine Neuh</i>	DATE: <i>19MAR14</i>	TIME: <i>1020</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COC SEAL: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> ABSENT		
				SAMPLE RECEIPT TEMP: °C <i>2.4, 2.2</i>		
				CARRIER: <i>FedEx</i>	TRACKING #:	
NOTES:						

## SGS Analytical Perspectives — Run Log

Project: A6521\_11903\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
7	140328X07	Tray1:03	CS3_140328_PCB_XB	1.00	SIL 13-79-3	LKB, DES	740-668	28-Mar-2014	17:00:58
8	140328X08	Tray1:76	OPR1_11903_PCB-RJ2	1.00	0_11903_OPR001	LKB, DES	662-053	28-Mar-2014	17:55:43
9	140328X09	Tray1:02	SBS_140328_PCB_XC	1.00	SIL 13-42-1	LKB, DES	100-145	28-Mar-2014	18:50:44
10	140328X10	Tray1:77	MB1_11903_PCB_TLX-RJ2	1.00	Method Blank	LKB, DES	680-324	28-Mar-2014	19:45:47
12	140328X12	Tray1:79	A6521_11903_PCB_001-RJ	1.19	PB083-1SWMID-140318-N	LKB, DES	761-512	28-Mar-2014	21:35:52
13	140328X13	Tray1:80	A6521_11903_PCB_002-RJ	1.18	PB083-1SWMID-140318-D	LKB, DES	203-283	28-Mar-2014	22:30:56
14	140328X14	Tray1:81	A6521_11903_PCB_003-RJ	0.93	PB087-1SWMID-140318-N	LKB, DES	039-448	28-Mar-2014	23:25:58
15	140328X15	Tray1:82	A6521_11903_PCB_004-RJ	0.96	PB091-1SWMID-140318-N	LKB, DES	863-237	29-Mar-2014	00:21:02
16	140328X16	Tray1:83	A6521_11903_PCB_005-RJ	1.22	PB093_A-1SWMID-140318-N	LKB, DES	596-561	29-Mar-2014	01:16:07
17	140328X17	Tray1:84	A6521_11903_PCB_006-RJ	1.22	PB095-1SWMID-140318-N	LKB, DES	161-330	29-Mar-2014	02:11:12

Lab ID: MB1\_11903\_PCB\_TLX-RJ2

ACQ: 28-Mar-2014 19:45:47 LKB

Wt/Vol: 1.00 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB

Client ID: Method Blank A6521

UTP: 31-Mar-2014 08:14 DES

J-level: 10 pg/L Split: 1

Checkcode: 680-324-FDZ

Datafile: 140328X10

RPT: 04-Apr-2014 10:11 ds

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	3.68E+03	1.64
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.68E+03	1.81
PCB-105 233'44'-PeCB	NotFnd		1.0006	-		0.00E+00		1.11	ND	1.94E+03	1.05
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.20	ND	1.94E+03	0.995
PCB-118 23'44'5'-PeCB	34.75	J	1.0006	1.0006	0	5.74E+04	0.65	1.19	2.91	1.94E+03	0.992
PCB-123 23'44'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.21	ND	1.94E+03	0.992
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.05E+03	1.36
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.66E+03	1.45
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.66E+03	0.906
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.66E+03	1.08
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.48E+03	1.02
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	1.25E+03	1.31
ES PCB-1	11.88		0.7245	0.7247	+0.1	5.02E+07	3.22	1.19	95.7 %	15%	150%
ES PCB-3	14.16		0.8640	0.8641	+0.1	5.27E+07	3.28	1.09	110 %	15%	150%
ES PCB-4	14.41		0.8795	0.8794	-0.1	3.05E+07	1.60	0.52	133 %	25%	150%
ES PCB-15	20.12		1.2271	1.2274	+0.4	6.09E+07	1.58	1.04	133 %	25%	150%
ES PCB-19	17.49		1.0673	1.0672	-0.1	3.02E+07	1.07	0.51	136 %	25%	150%
ES PCB-37	26.43		1.0787	1.0791	+0.6	4.51E+07	1.09	1.66	114 %	25%	150%
ES PCB-54	20.40		0.8328	0.8326	-0.2	3.02E+07	0.77	0.86	147 %	25%	150%
ES PCB-77	32.76		1.3364	1.3372	+1.6	3.94E+07	0.81	1.38	120 %	25%	150%
ES PCB-81	32.28		1.3170	1.3177	+1.4	3.80E+07	0.79	1.37	117 %	25%	150%
ES PCB-104	25.37	V	0.8325	0.8322	-0.5	2.73E+07	1.60	0.80	158 %	25%	150%
ES PCB-105	35.74		1.1720	1.1724	+0.9	3.30E+07	1.61	1.20	128 %	25%	150%
ES PCB-114	35.19		1.1543	1.1547	+0.8	3.34E+07	1.60	1.22	128 %	25%	150%
ES PCB-118	34.73		1.1391	1.1394	+0.6	3.32E+07	1.57	1.16	134 %	25%	150%
ES PCB-123	34.45		1.1299	1.1302	+0.6	3.30E+07	1.58	1.19	130 %	25%	150%
ES PCB-126	38.35		1.2575	1.2580	+1.2	2.90E+07	1.55	1.03	132 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	2.32E+07	1.32	1.11	123 %	25%	150%
ES PCB-155	30.31		0.8114	0.8110	-0.7	3.33E+07	1.28	1.59	125 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0941	+0.5	5.73E+07	1.25	1.60	107 %	25%	150%
ES PCB-167	39.91		1.0677	1.0678	+0.2	3.09E+07	1.29	1.67	111 %	25%	150%
ES PCB-169	43.60		1.1664	1.1667	+0.8	2.81E+07	1.28	1.56	108 %	25%	150%
ES PCB-170	43.12		0.9081	0.9080	-0.3	1.84E+07	1.06	0.95	126 %	25%	150%
ES PCB-180	42.05		0.8856	0.8855	-0.3	2.14E+07	1.08	1.14	126 %	25%	150%
ES PCB-188	35.19		0.7413	0.7409	-0.8	2.34E+07	1.06	0.94	149 %	25%	150%
ES PCB-189	45.73		0.9629	0.9629	0	2.79E+07	1.02	1.58	126 %	25%	150%
ES PCB-202	39.72		0.8366	0.8364	-0.5	2.23E+07	0.93	0.97	138 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	2.12E+07	0.88	1.24	121 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	1.54E+07	0.81	0.83	133 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	2.30E+07	0.80	1.17	139 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	1.99E+07	1.20	1.11	128 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.88		0.9339	0.9339	0	5.46E+07	1.07	1.11	109 %	30%	135%
SS PCB-111	32.77		1.0750	1.0752	+0.4	3.63E+07	1.59	1.03	107 %	30%	135%
SS PCB-178	37.75		1.0100	1.0100	0	1.57E+07	1.13	0.62	108 %	30%	135%
CS PCB-28	22.88		0.9339	0.9339	0	5.46E+07	1.07	1.85	124 %	30%	135%
CS PCB-111	32.77	V	1.0750	1.0752	+0.4	3.63E+07	1.59	1.22	139 %	30%	135%
CS PCB-178	37.75	V	1.0100	1.0100	0	1.57E+07	1.13	0.58	161 %	30%	135%

JS PCB-9	16.39					4.40E+07	1.57				
JS PCB-52	24.50					2.38E+07	0.81				
JS PCB-101	30.48					2.14E+07	1.58				
JS PCB-138	37.37					1.67E+07	1.32				
JS PCB-194	47.49					1.40E+07	0.92				

	Totals	NON-EMPC	EMPC	DL
	Mono-CBs	2.77	2.77	1.04
	Di-CBs	8.82	8.82	1.99
	Tri-CBs	2.06	6.84	2.23
	Tetra-CBs	12.8	14.8	1.5
	Penta-CBs	12.4	20.9	1.02
	Hexa-CBs	8.51	13.4	1.01
	Hepta-CBs	0	0	1.21
	Octa-CBs	0	0	1.27
	Nona-CBs	0	0	3.37

PCB-1 2-MoCB	11.89	J	1.0011	1.0013	+0.1	2.58E+04	SI	0.95	1.08	3.84E+03	1.05
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.17	ND	5.23E+03	1.22
PCB-3 4-MoCB	14.18	J	1.0010	1.0010	0	4.49E+04	SI	1.01	1.69	3.84E+03	1.03
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00		1.23	ND	5.31E+03	2.05
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	5.31E+03	1.31
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00		0.97	ND	6.65E+03	2.03
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	6.65E+03	1.78
PCB-6 23'-DiCB	NotFnd		1.0249	-		0.00E+00		1.03	ND	6.65E+03	1.91
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.03	ND	6.65E+03	1.9
PCB-8 24'-DiCB	NotFnd		1.0506	-		0.00E+00		1.04	ND	6.65E+03	1.89
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	6.65E+03	1.59
PCB-11 33'-DiCB	19.56	J	0.9721	0.9722	+0.1	2.85E+05	1.54	1.06	8.82	6.65E+03	1.85
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.06	ND	6.65E+03	1.86
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.02	ND	6.65E+03	1.92
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00		1.15	ND	5.40E+03	2.56
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1014	-		0.00E+00		1.56	ND	5.40E+03	1.88
PCB-17 22'4-TrCB	NotFnd		1.1243	-		0.00E+00		1.33	ND	5.40E+03	2.21
PCB-27 23'6-TrCB	NotFnd		1.1353	-		0.00E+00		1.82	ND	5.40E+03	1.61
PCB-24 236-TrCB	NotFnd		1.1430	-		0.00E+00		1.74	ND	5.40E+03	1.69
PCB-16 22'3-TrCB	NotFnd		1.1484	-		0.00E+00		0.99	ND	5.40E+03	2.97

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1758	-		0.00E+00		1.93	ND	5.40E+03	1.52
PCB-34 23'5'-TrCB	NotFnd		0.8218	-		0.00E+00		1.25	ND	4.72E+03	1.64
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	4.72E+03	1.62
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8383	-		0.00E+00		1.28	ND	4.72E+03	1.6
PCB-25 23'4-TrCB	NotFnd		0.8456	-		0.00E+00		1.26	ND	4.72E+03	1.62
PCB-31 24'5-TrCB	22.63	J EMPC	0.8562	0.8561	-0.1	5.93E+04	0.77	1.34	1.96	4.72E+03	1.52
PCB-28/20 244'/233'-TrCB	22.90	J EMPC C	0.8670	0.8662	-1.1	7.98E+04	0.85	1.26	2.82	4.72E+03	1.63
PCB-21/33 234/23'4'-TrCB	23.10	J C	0.8738	0.8740	+0.3	5.94E+04	1.05	1.28	2.06	4.72E+03	1.59
PCB-22 234'-TrCB	NotFnd		0.8880	-		0.00E+00		1.20	ND	4.72E+03	1.7
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	4.72E+03	1.55
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	4.72E+03	1.51
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	4.72E+03	1.68
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.19	ND	4.72E+03	1.72
PCB-37 344'-TrCB	NotFnd		1.0007	-		0.00E+00		1.08	ND	4.72E+03	1.9
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	2.25E+03	0.971
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9145	-		0.00E+00		0.92	ND	2.53E+03	1.51
PCB-45 22'36-TeCB	NotFnd		0.9383	-		0.00E+00		0.84	ND	2.53E+03	1.66
PCB-51 22'46'-TeCB	NotFnd		0.9413	-		0.00E+00		0.90	ND	2.53E+03	1.55
PCB-46 22'36'-TeCB	NotFnd		0.9499	-		0.00E+00		0.74	ND	2.53E+03	1.89
PCB-52 22'55'-TeCB	24.52	J	1.0009	1.0008	-0.1	9.12E+04	0.78	0.90	5.34	2.53E+03	1.55
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.19	ND	2.53E+03	1.16
PCB-43 22'35-TeCB	NotFnd		1.0101	-		0.00E+00		0.75	ND	2.53E+03	1.84
PCB-69/49 23'46/22'45'-TeCB	24.96	J EMPC C	1.0181	1.0189	+1.2	4.16E+04	1.10	1.10	2	2.53E+03	1.27
PCB-48 22'45-TeCB	NotFnd		1.0295	-		0.00E+00		0.90	ND	2.53E+03	1.54
PCB-44/47/65 ...-TeCB	25.41	J C	1.0384	1.0373	-1.7	6.73E+04	0.84	0.96	3.67	2.53E+03	1.44
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0496	-		0.00E+00		1.25	ND	2.53E+03	1.11
PCB-42 22'34'-TeCB	NotFnd		1.0563	-		0.00E+00		0.82	ND	2.53E+03	1.7
PCB-41 22'34-TeCB	NotFnd		1.0698	-		0.00E+00		0.76	ND	2.53E+03	1.82
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0737	-		0.00E+00		0.92	ND	2.53E+03	1.52
PCB-64 234'6-TeCB	NotFnd		1.0819	-		0.00E+00		1.33	ND	2.53E+03	1.05
PCB-72 23'55'-TeCB	NotFnd		0.8436	-		0.00E+00		1.26	ND	3.68E+03	1.6
PCB-68 23'45'-TeCB	NotFnd		0.8515	-		0.00E+00		1.35	ND	3.68E+03	1.5
PCB-57 233'5-TeCB	NotFnd		0.8630	-		0.00E+00		1.22	ND	3.68E+03	1.66
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.27	ND	3.68E+03	1.58
PCB-67 23'45-TeCB	NotFnd		0.8741	-		0.00E+00		1.33	ND	3.68E+03	1.52
PCB-63 234'5-TeCB	NotFnd		0.8811	-		0.00E+00		1.40	ND	3.68E+03	1.44
PCB-61/70/74/76 ...-TeCB	28.73	J C	0.8902	0.8901	-0.2	9.11E+04	0.79	1.25	3.84	3.68E+03	1.62
PCB-66 23'44'-TeCB	NotFnd		0.8989	-		0.00E+00		1.18	ND	3.68E+03	1.71
PCB-55 233'4-TeCB	NotFnd		0.9034	-		0.00E+00		1.18	ND	3.68E+03	1.71
PCB-56 233'4'-TeCB	NotFnd		0.9169	-		0.00E+00		1.17	ND	3.68E+03	1.73
PCB-60 2344'-TeCB	NotFnd		0.9229	-		0.00E+00		1.20	ND	3.68E+03	1.68
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	3.68E+03	1.47
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.37	ND	3.68E+03	1.47
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	3.68E+03	1.76
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.57E+03	0.755
PCB-96 22'366'-PeCB	NotFnd		1.0134	-		0.00E+00		1.18	ND	1.57E+03	0.915
PCB-103 22'45'6-PeCB	NotFnd		0.8989	-		0.00E+00		0.93	ND	1.94E+03	1.29
PCB-94 22'356'-PeCB	NotFnd		0.9051	-		0.00E+00		0.79	ND	1.94E+03	1.52

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96	J	0.9176	0.9174	-0.3	6.08E+04	0.65	0.86	4.27	1.94E+03	1.39
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9246	-		0.00E+00		0.86	ND	1.94E+03	1.4
PCB-102 22'456'-PeCB	NotFnd		0.9282	-		0.00E+00		1.00	ND	1.94E+03	1.2
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.74	ND	1.94E+03	1.63
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	1.94E+03	1.55
PCB-91 22'34'6-PeCB	NotFnd		0.9424	-		0.00E+00		0.92	ND	1.94E+03	1.31
PCB-84 22'33'6-PeCB	NotFnd		0.9487	-		0.00E+00		0.71	ND	1.94E+03	1.68
PCB-89 22'346'-PeCB	NotFnd		0.9624	-		0.00E+00		0.76	ND	1.94E+03	1.58
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	1.94E+03	1
PCB-92 22'355'-PeCB	NotFnd		0.9841	-		0.00E+00		0.81	ND	1.94E+03	1.48
PCB-113/90/101 ...-PeCB	30.50	J EMPC C	0.9999	1.0007	+1.5	6.61E+04	0.51	0.96	4.17	1.94E+03	1.25
PCB-83 22'33'5-PeCB	NotFnd		1.0142	-		0.00E+00		0.70	ND	1.94E+03	1.73
PCB-99 22'44'5-PeCB	31.00	J EMPC	1.0173	1.0171	-0.4	2.47E+04	0.81	0.90	1.67	1.94E+03	1.34
PCB-112 233'56-PeCB	NotFnd		1.0206	-		0.00E+00		1.17	ND	1.94E+03	1.03
PCB-108/119/86/97/125...-PeCB	31.47	J EMPC C	1.0320	1.0325	+0.9	4.31E+04	0.72	0.98	2.67	1.94E+03	1.23
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.18	ND	1.94E+03	1.02
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0525	-		0.00E+00		0.88	ND	1.94E+03	1.37
PCB-110 233'4'6-PeCB	32.20	J	1.0561	1.0563	+0.4	9.40E+04	0.55	1.10	5.2	1.94E+03	1.1
PCB-115 2344'6-PeCB	NotFnd		1.0590	-		0.00E+00		1.16	ND	1.94E+03	1.04
PCB-82 22'33'4-PeCB	NotFnd		1.0655	-		0.00E+00		0.69	ND	1.94E+03	1.75
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	1.94E+03	0.996
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	1.94E+03	0.982
PCB-107/124 ...-PeCB	NotFnd	C	0.9916	-		0.00E+00		1.11	ND	1.94E+03	1.09
PCB-109 233'46-PeCB	NotFnd		0.9976	-		0.00E+00		1.24	ND	1.94E+03	0.97
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		1.11	ND	1.94E+03	1.08
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.03	ND	1.94E+03	1.16
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	1.94E+03	1.05
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.36E+03	0.61
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.14	ND	1.36E+03	0.675
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.36E+03	0.665
PCB-136 22'33'66'-HxCB	NotFnd		1.0207	-		0.00E+00		1.06	ND	1.36E+03	0.726
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.36E+03	0.703
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.36E+03	1.02
PCB-151/135 ...-HxCB	33.00	J C	1.0886	1.0887	+0.2	2.54E+04	1.32	1.09	2	1.36E+03	1.07
PCB-154 22'44'56'-HxCB	NotFnd		1.0954	-		0.00E+00		1.29	ND	1.36E+03	0.913
PCB-144 22'345'6-HxCB	NotFnd		1.1041	-		0.00E+00		1.14	ND	1.36E+03	1.03
PCB-147/149 ...-HxCB	33.78	J C	1.1141	1.1144	+0.6	4.59E+04	1.24	1.11	3.55	1.36E+03	1.05
PCB-134 22'33'56-HxCB	NotFnd		1.1199	-		0.00E+00		0.93	ND	1.36E+03	1.26
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.02	ND	1.36E+03	1.15
PCB-139/140 ...-HxCB	NotFnd	C	1.1312	-		0.00E+00		1.13	ND	1.36E+03	1.04
PCB-131 22'33'46-HxCB	NotFnd		1.1369	-		0.00E+00		0.98	ND	1.36E+03	1.2
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.36E+03	1.24
PCB-132 22'33'46'-HxCB	34.84	J EMPC	1.1494	1.1495	+0.2	2.31E+04	0.95	0.99	2.01	1.36E+03	1.19
PCB-133 22'33'55'-HxCB	NotFnd		1.1626	-		0.00E+00		1.05	ND	1.36E+03	1.12
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.36E+03	0.867
PCB-146 22'34'55'-HxCB	NotFnd		0.9582	-		0.00E+00		1.15	ND	1.36E+03	1.02
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.36E+03	0.796
PCB-153/168 ...-HxCB	36.34	J EMPC C	0.9728	0.9723	-1.1	4.70E+04	1.44	1.42	2.85	1.36E+03	0.829

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9766	-		0.00E+00		1.04	ND	1.36E+03	1.13
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.92	ND	1.36E+03	1.28
PCB-137 22'344'5'-HxCB	NotFnd		0.9911	-		0.00E+00		1.11	ND	1.36E+03	1.05
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9933	-		0.00E+00		1.43	ND	1.36E+03	0.822
PCB-163/138/129 ...-HxCB	37.40	J C	1.0011	1.0007	-0.9	3.94E+04	1.41	1.15	2.96	1.36E+03	1.02
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.36E+03	0.845
PCB-158 233'44'6'-HxCB	NotFnd		1.0096	-		0.00E+00		1.53	ND	1.36E+03	0.765
PCB-128/166 ...-HxCB	NotFnd	C	0.9641	-		0.00E+00		0.90	ND	1.66E+03	1.17
PCB-159 233'455'-HxCB	NotFnd		0.9844	-		0.00E+00		1.10	ND	1.66E+03	0.956
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.10	ND	1.66E+03	0.954
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.32E+03	0.882
PCB-179 22'33'566'-HpCB	NotFnd		1.0086	-		0.00E+00		1.13	ND	1.32E+03	0.994
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.06	ND	1.32E+03	1.06
PCB-176 22'33'466'-HpCB	NotFnd		1.0300	-		0.00E+00		1.15	ND	1.32E+03	0.978
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.32E+03	1.05
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0733	-		0.00E+00		0.77	ND	1.32E+03	1.45
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0887	-		0.00E+00		1.07	ND	1.56E+03	1.4
PCB-187 22'34'55'6'-HpCB	NotFnd		1.0952	-		0.00E+00		1.15	ND	1.56E+03	1.31
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.56E+03	1.28
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1101	-		0.00E+00		1.20	ND	1.56E+03	1.26
PCB-185 22'3455'6'-HpCB	NotFnd		1.1125	-		0.00E+00		1.10	ND	1.56E+03	1.36
PCB-174 22'33'456'-HpCB	NotFnd		1.1156	-		0.00E+00		0.94	ND	1.56E+03	1.6
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1262	-		0.00E+00		0.92	ND	1.56E+03	1.63
PCB-181 22'344'56'-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.56E+03	1.4
PCB-171/173 ...-HpCB	NotFnd	C	1.1413	-		0.00E+00		0.94	ND	1.56E+03	1.6
PCB-172 22'33'455'-HpCB	NotFnd		0.9080	-		0.00E+00		0.98	ND	1.56E+03	1.54
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.56E+03	1.17
PCB-180/193 ...-HpCB	NotFnd	C	0.9194	-		0.00E+00		1.24	ND	1.56E+03	1.21
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9266	-		0.00E+00		1.38	ND	1.56E+03	1.09
PCB-170 22'33'44'5'-HpCB	NotFnd		0.9434	-		0.00E+00		1.13	ND	1.56E+03	1.52
PCB-190 233'44'56-HpCB	NotFnd		0.9533	-		0.00E+00		1.60	ND	1.56E+03	1.08
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.46E+03	1.24
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.14	ND	1.46E+03	1.14
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.46E+03	1.21
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0396	-		0.00E+00		1.10	ND	1.46E+03	1.18
PCB-200 22'33'4566'-OcCB	NotFnd		1.0418	-		0.00E+00		1.08	ND	1.46E+03	1.2
PCB-198/199 ...-OcCB	NotFnd	C	1.1001	-		0.00E+00		0.74	ND	1.46E+03	1.75
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1146	-		0.00E+00		0.80	ND	1.46E+03	1.64
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1188	-		0.00E+00		0.83	ND	1.46E+03	1.56
PCB-195 22'33'44'56-OcCB	NotFnd		0.9516	-		0.00E+00		0.72	ND	1.44E+03	1.91
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.81	ND	1.44E+03	1.71
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.44E+03	1.3
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.21E+03	2.71
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.18	ND	3.21E+03	2.59
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.21E+03	4.03



SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

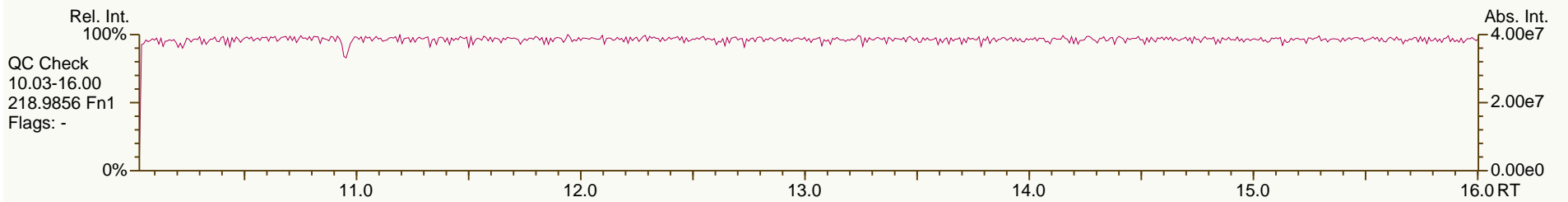
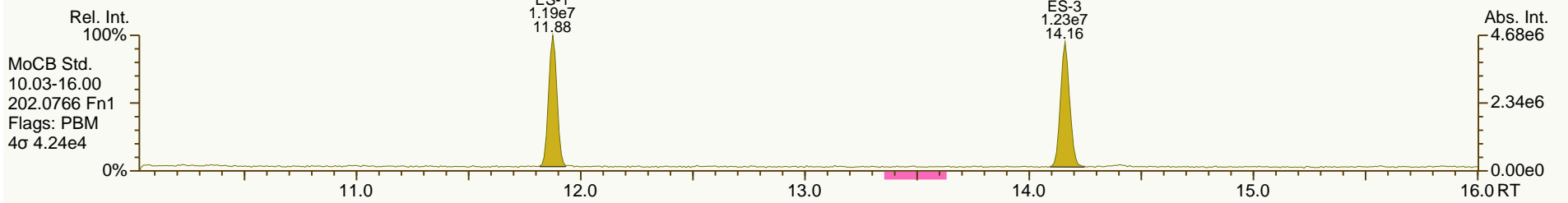
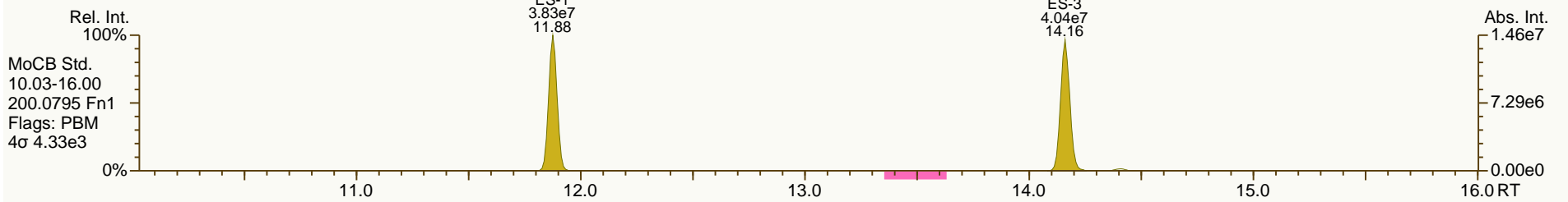
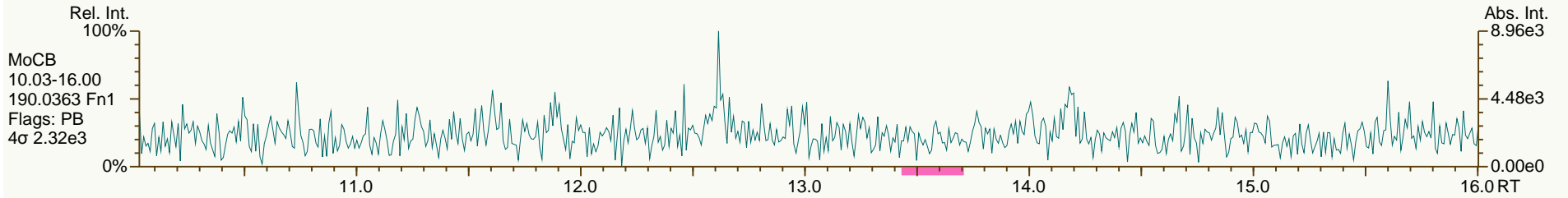
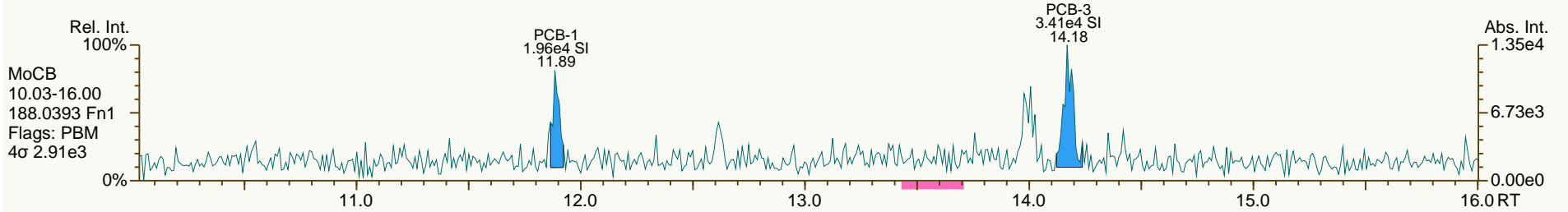
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

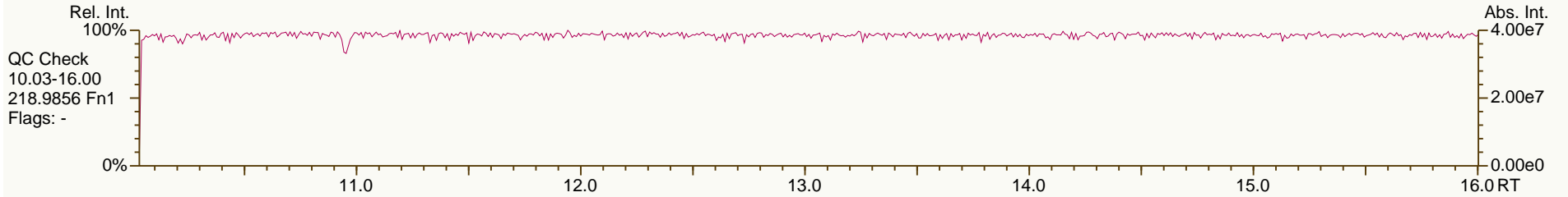
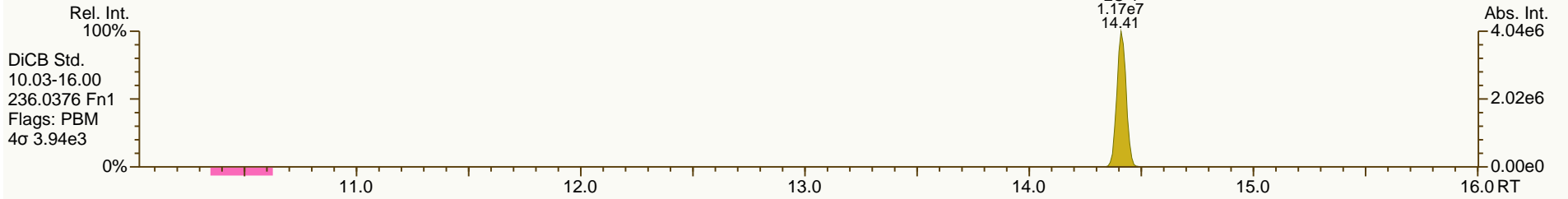
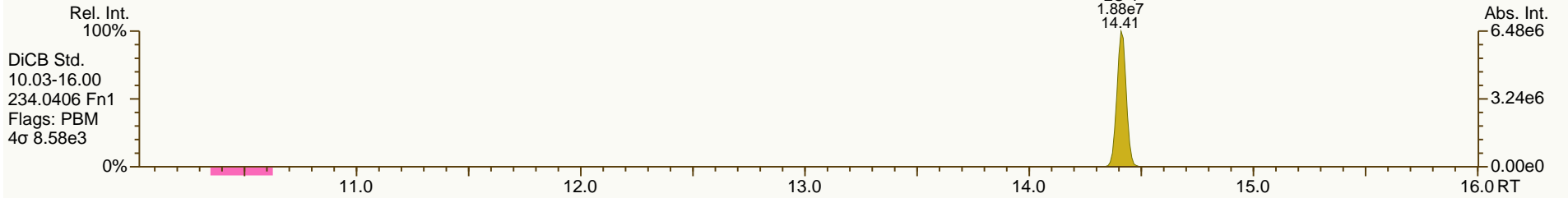
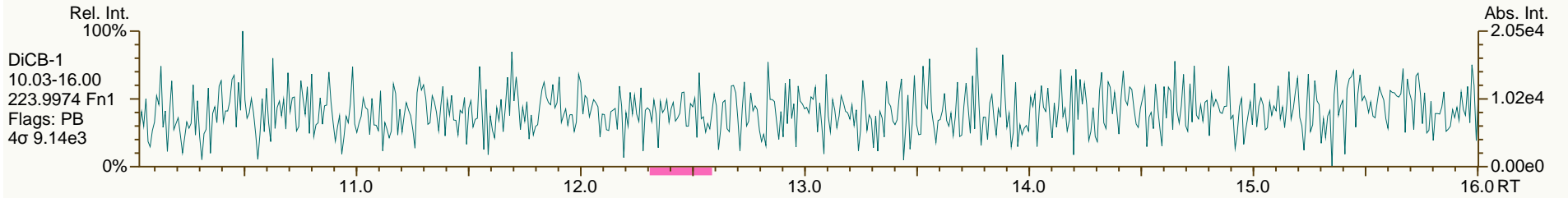
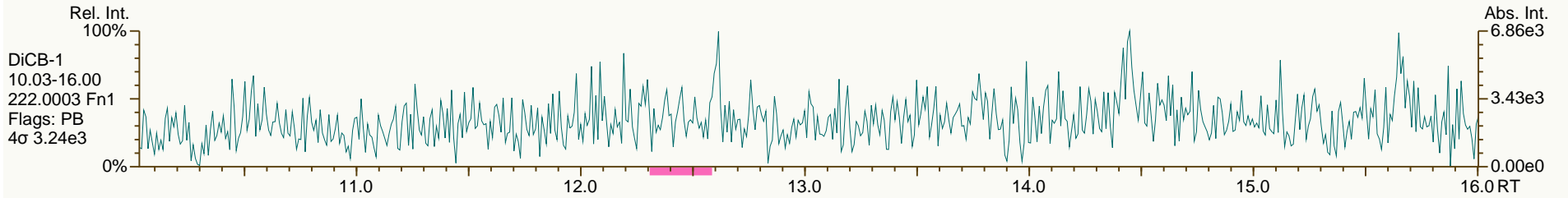
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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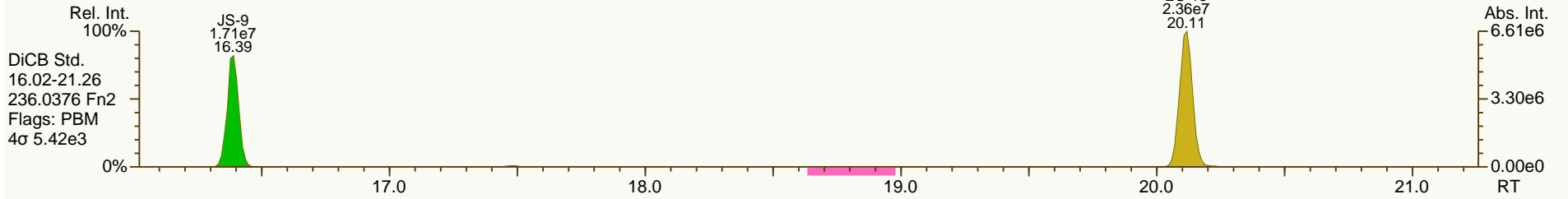
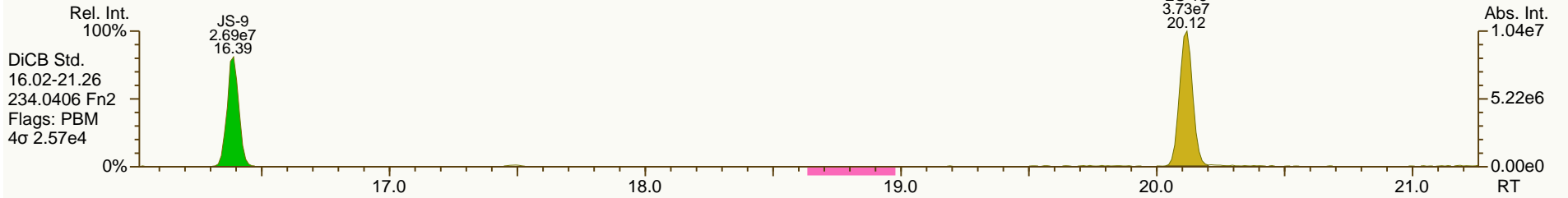
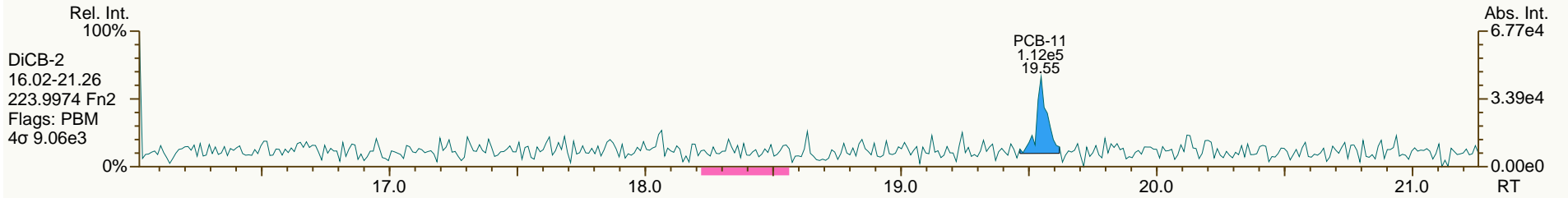
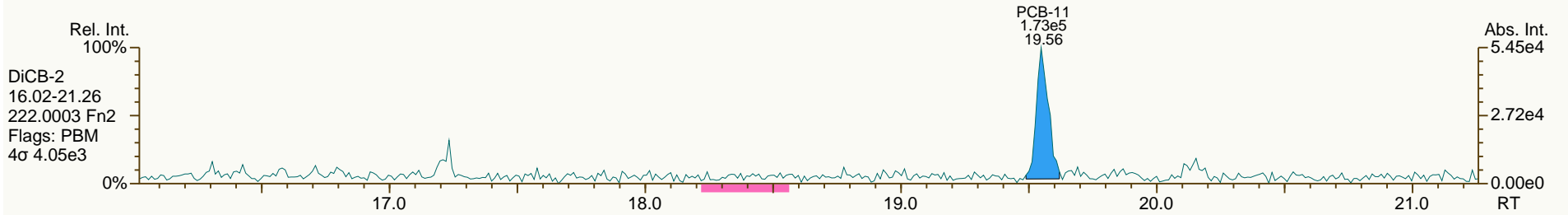
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

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 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

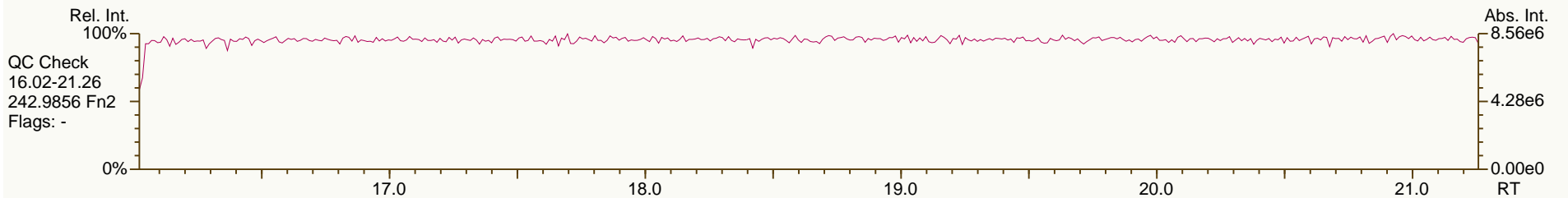
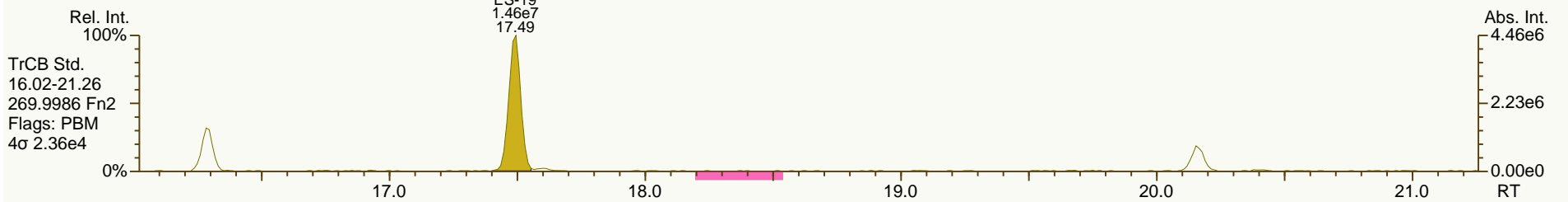
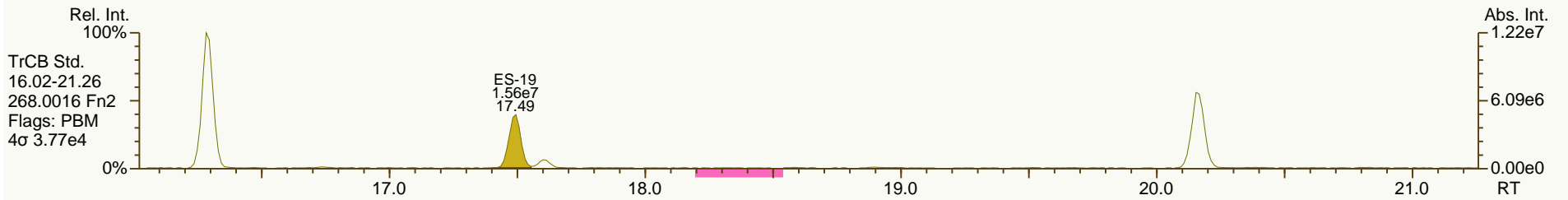
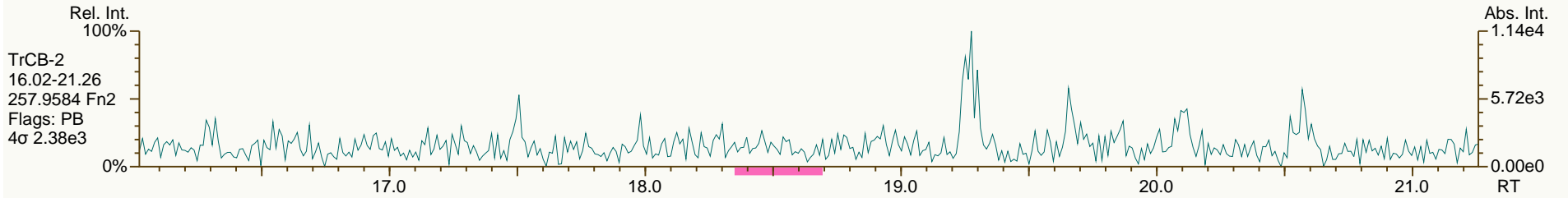
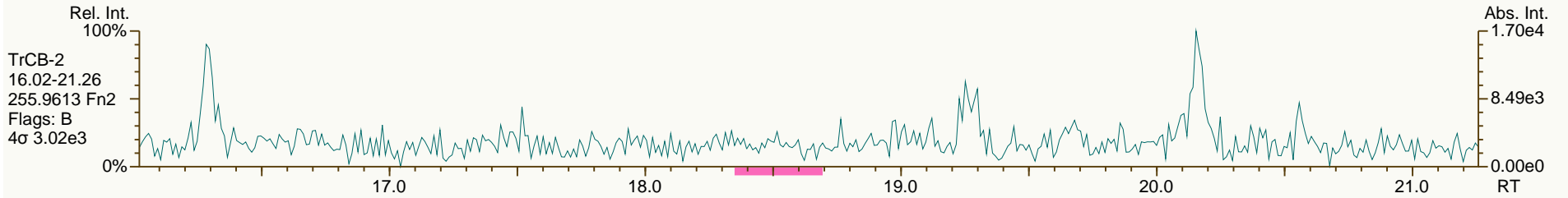
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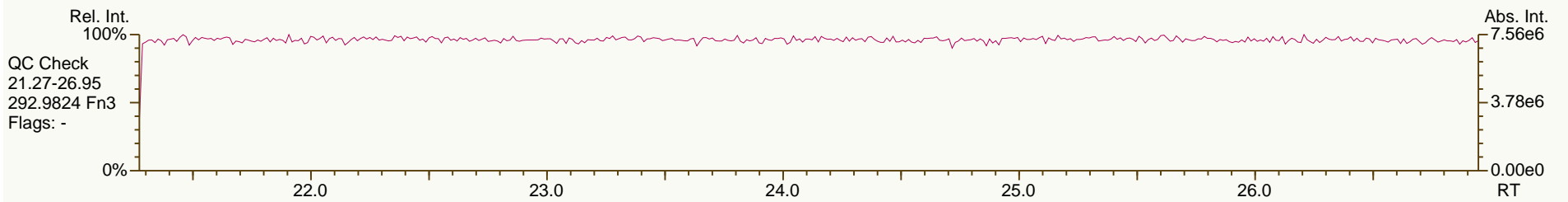
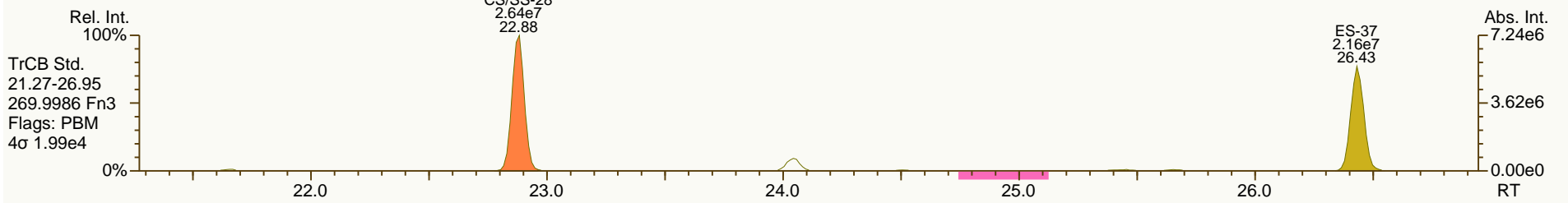
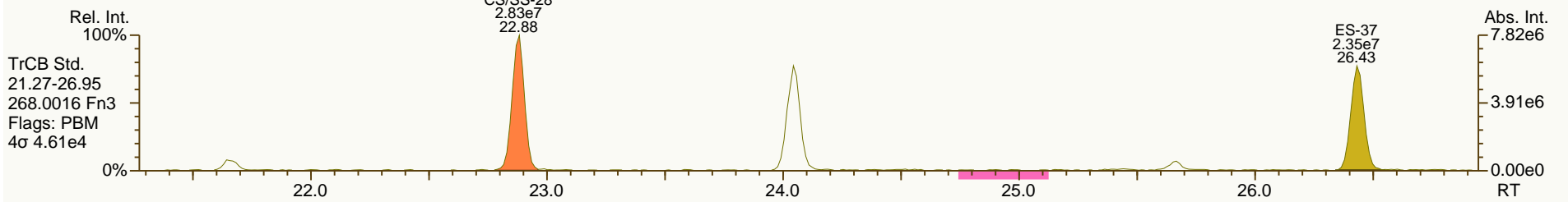
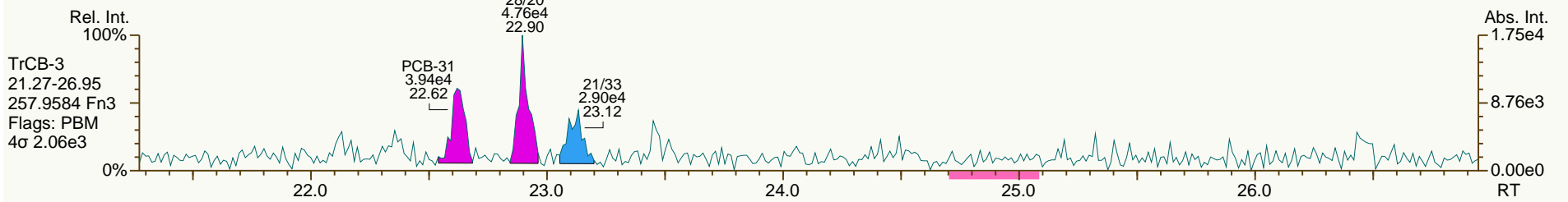
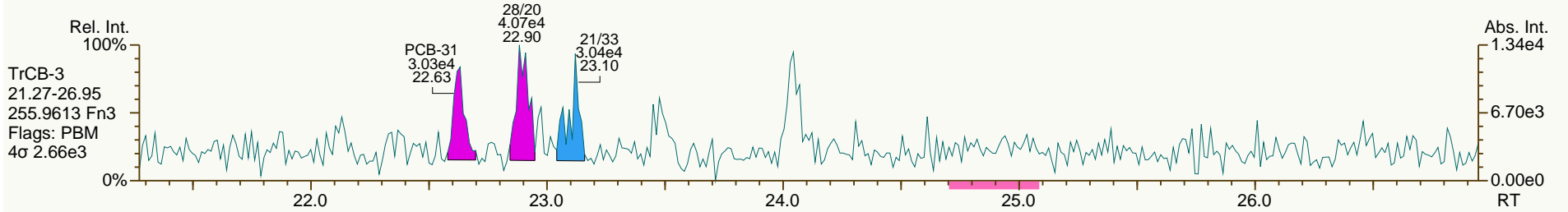
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 User: LKB Datafile: 140328X10



SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

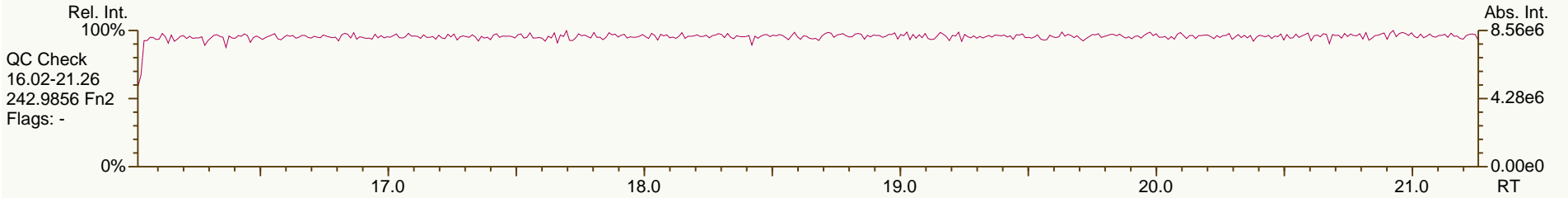
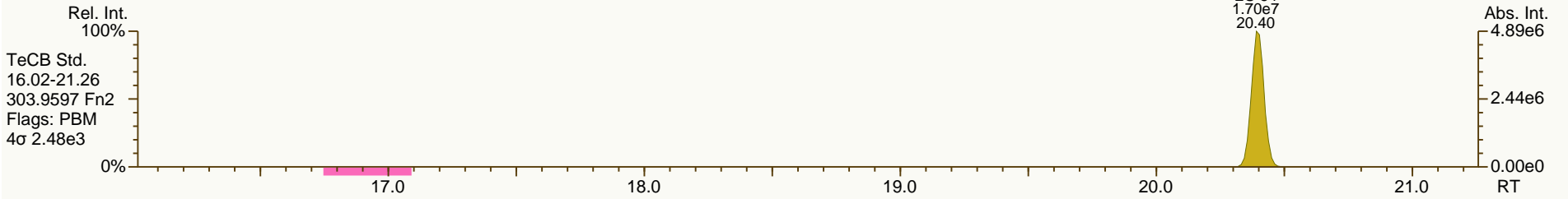
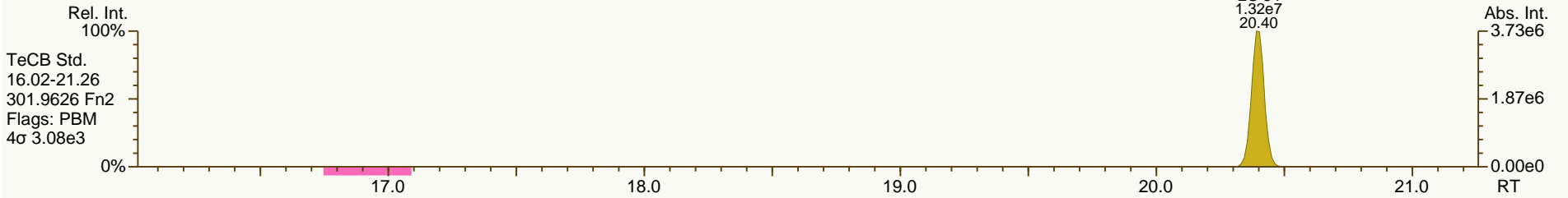
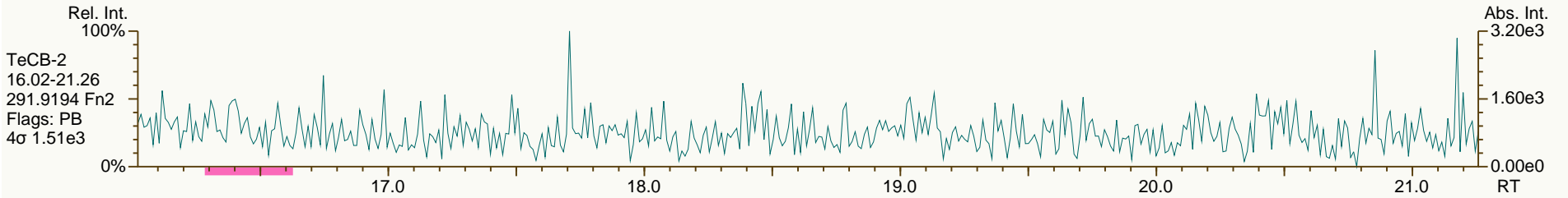
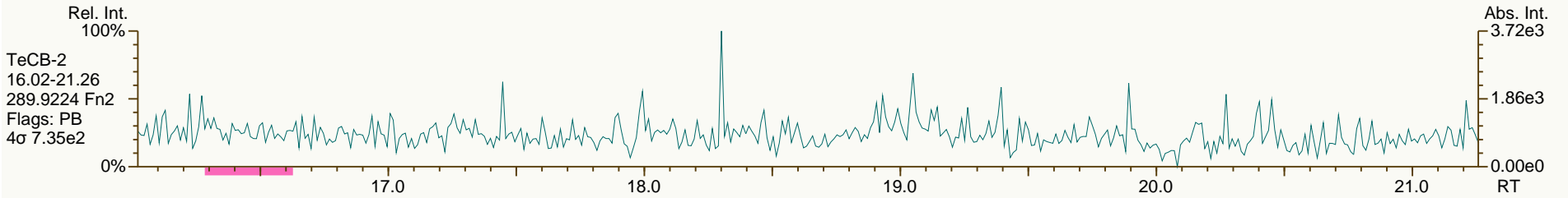
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

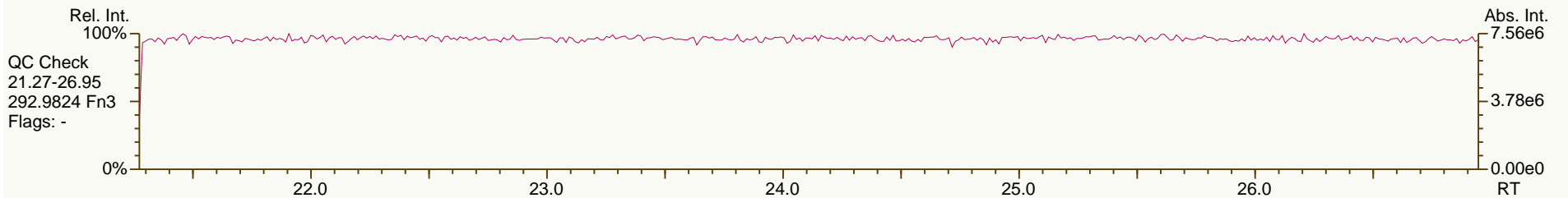
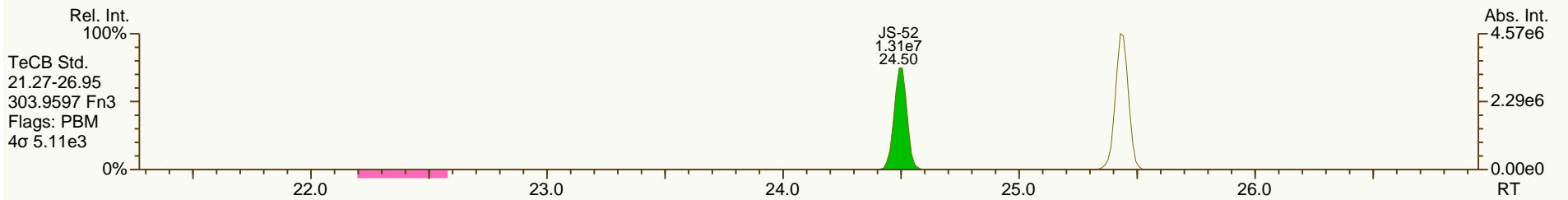
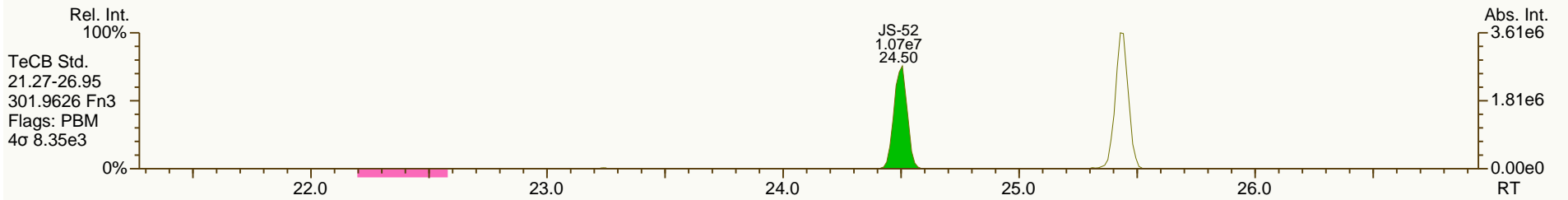
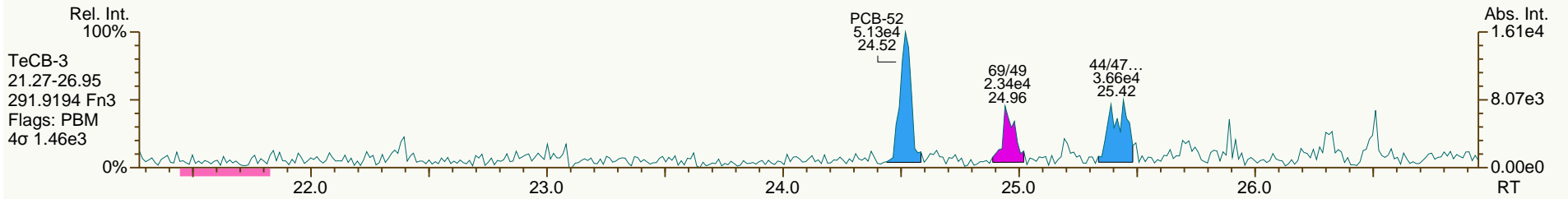
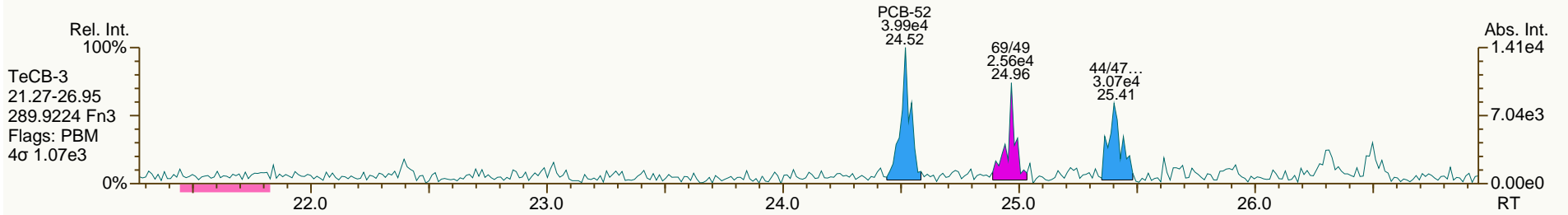
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

Acq: 28-Mar-2014 19:45:47  
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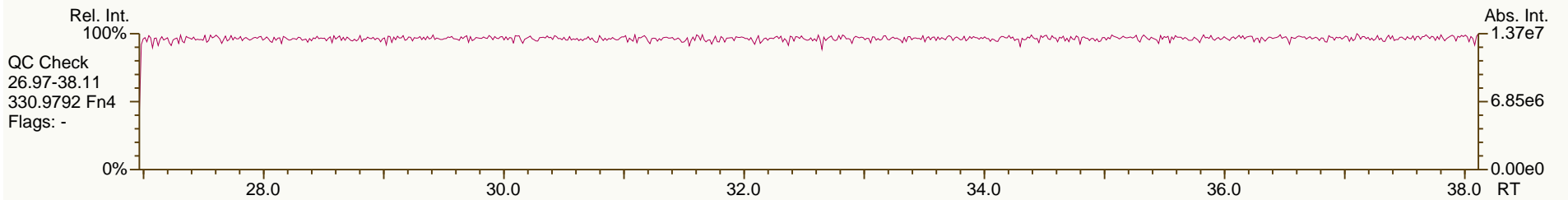
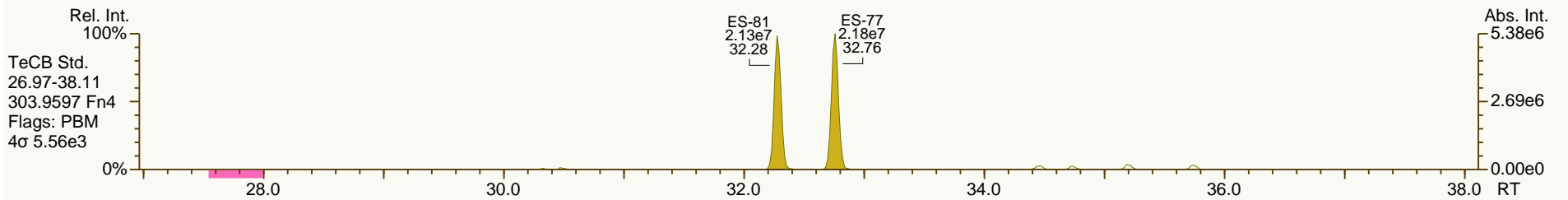
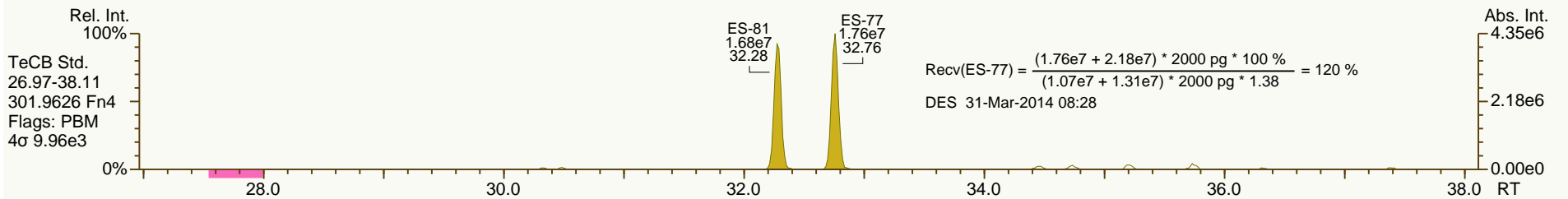
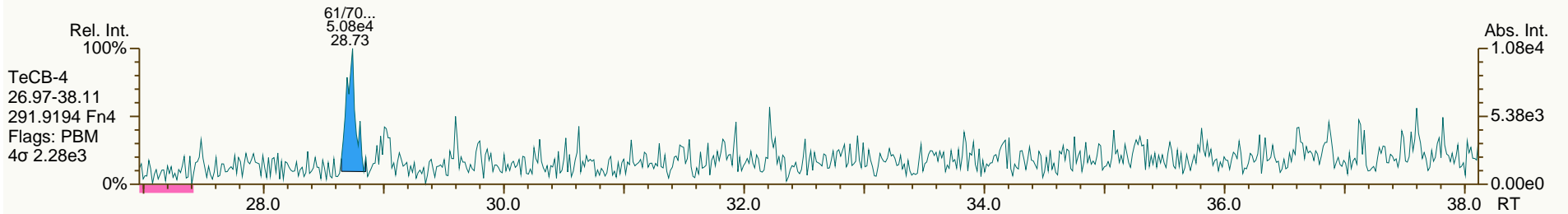
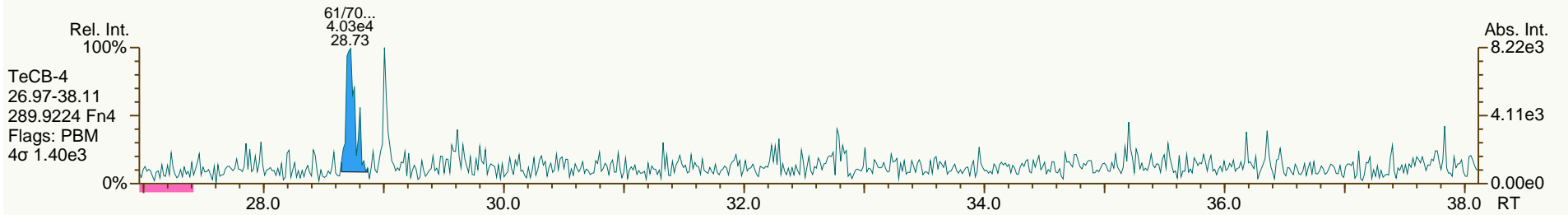




SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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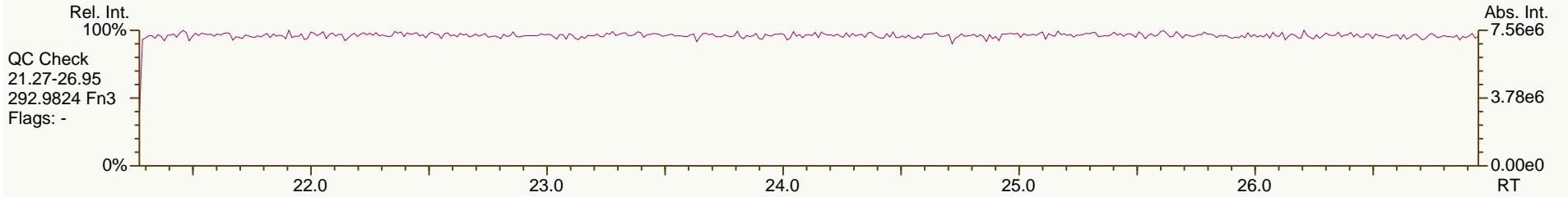
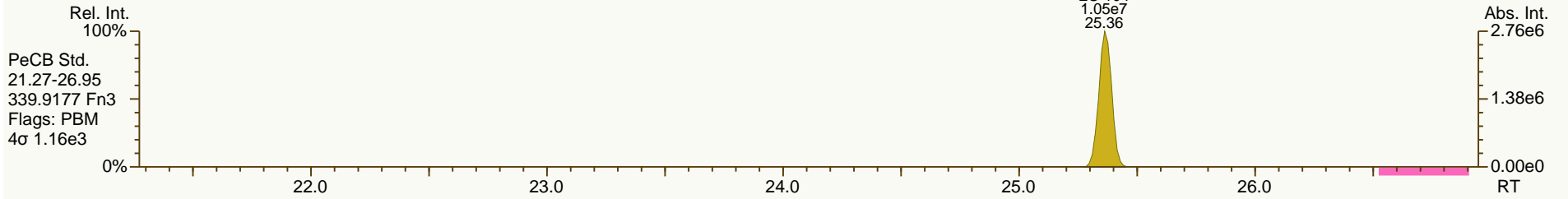
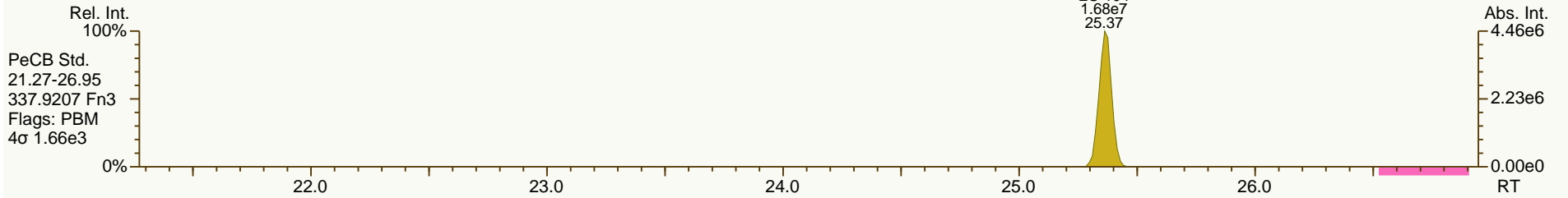
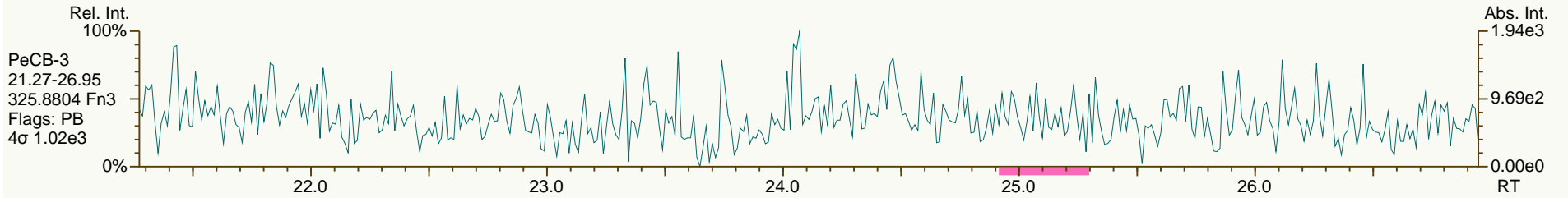
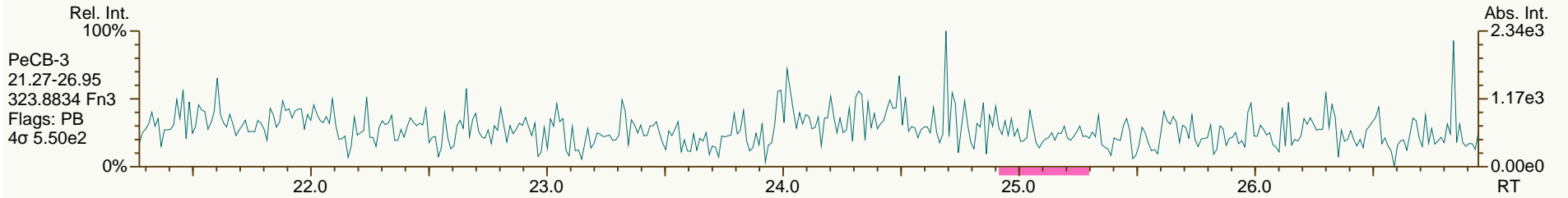
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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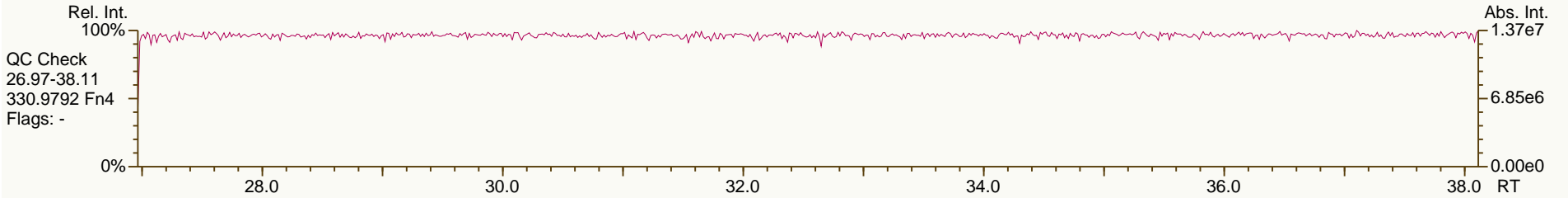
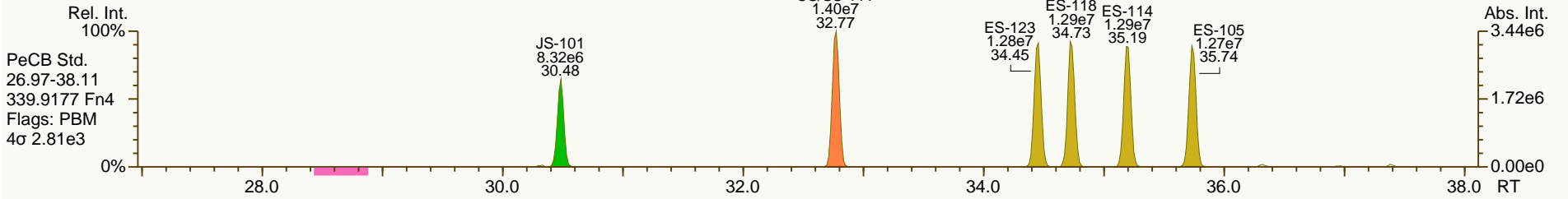
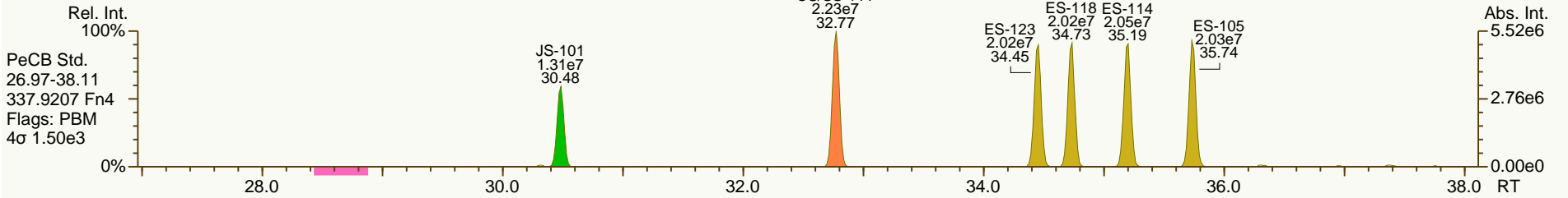
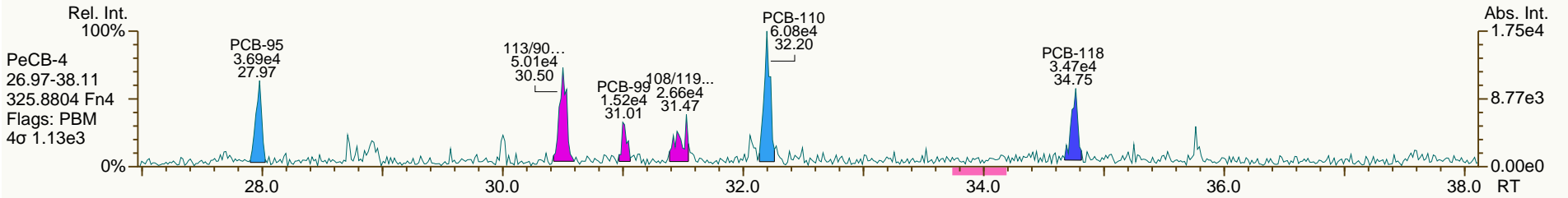
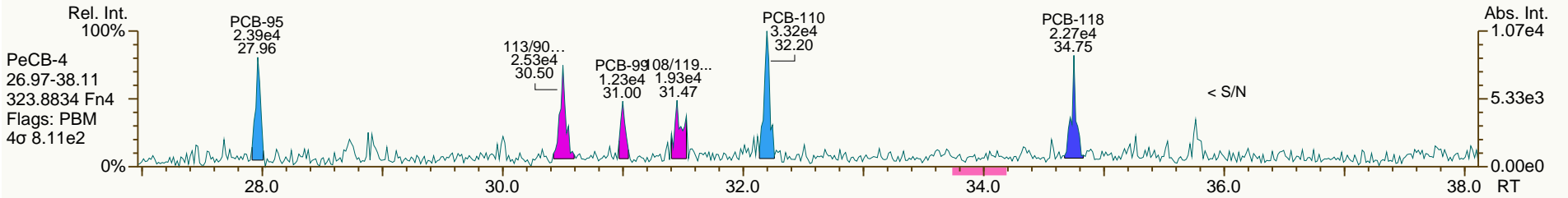
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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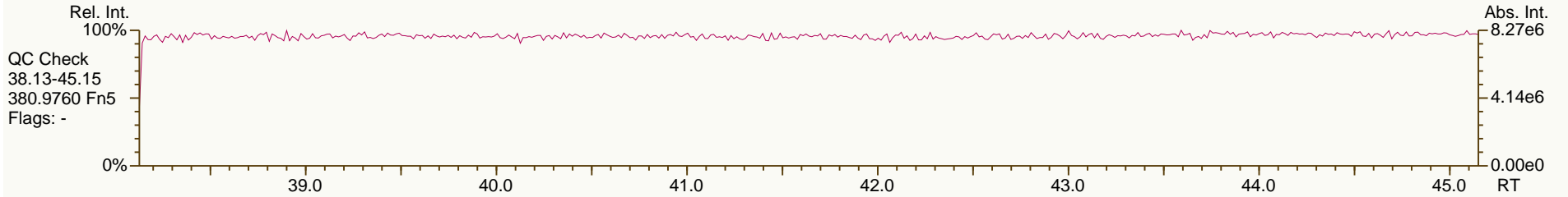
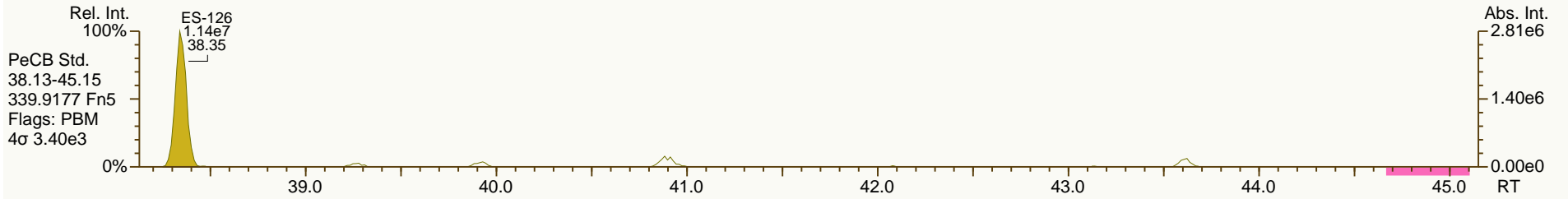
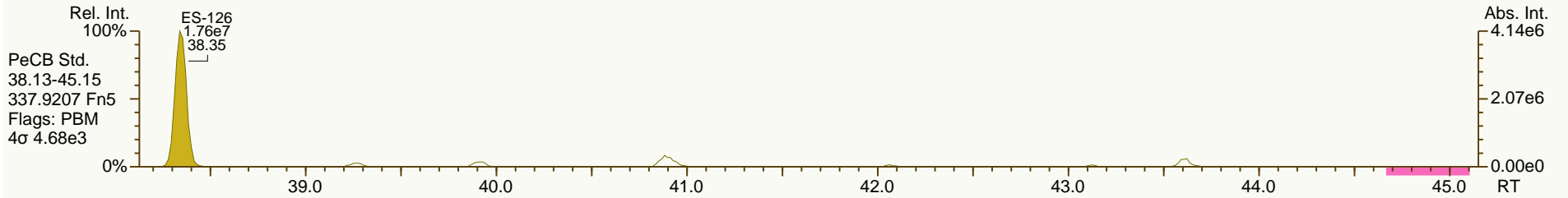
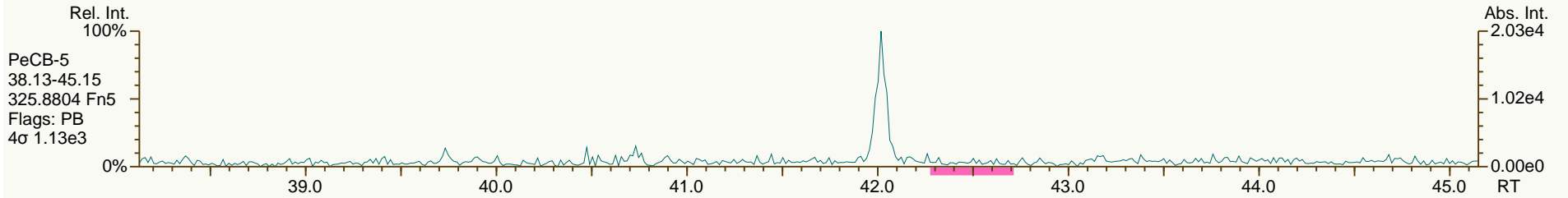
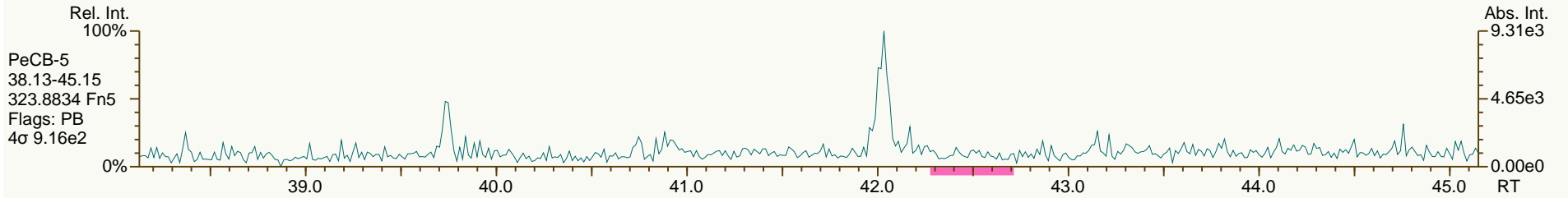
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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Sample ID: Method Blank  
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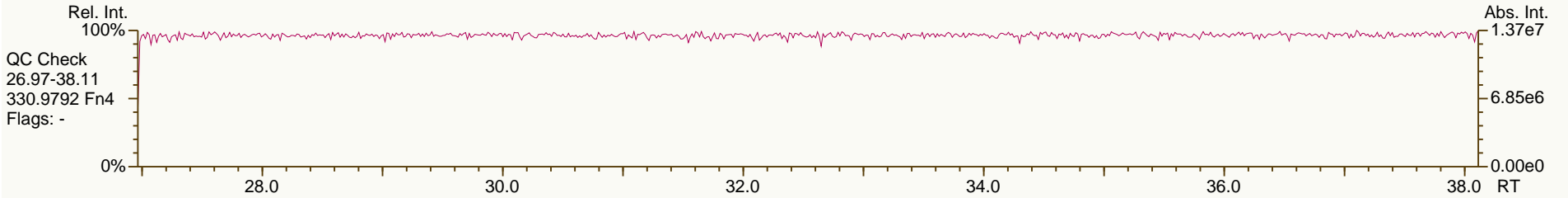
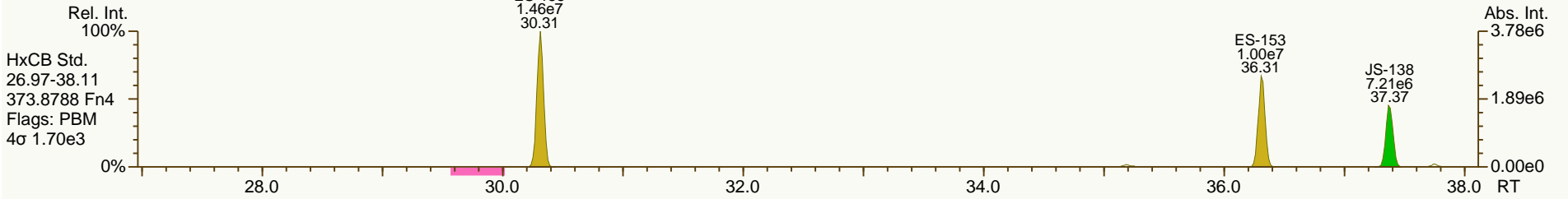
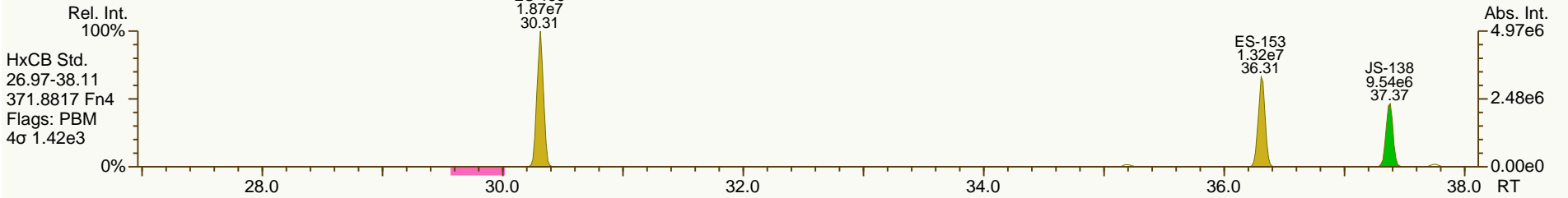
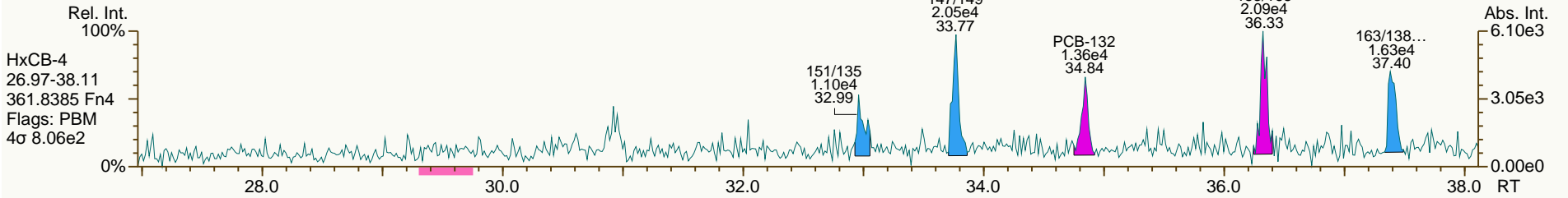
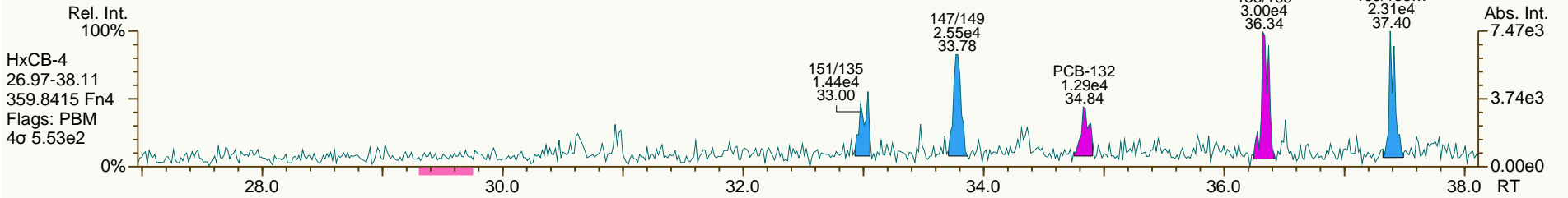
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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Sample ID: Method Blank  
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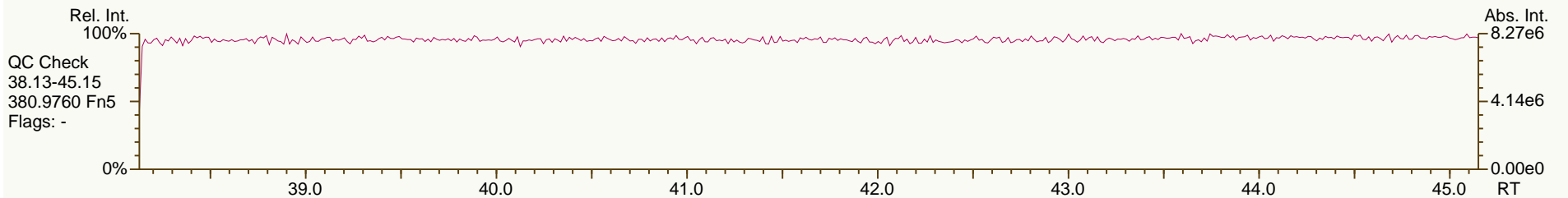
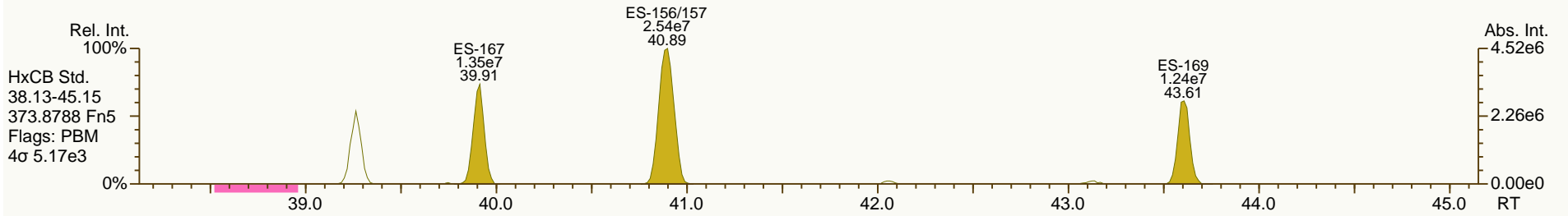
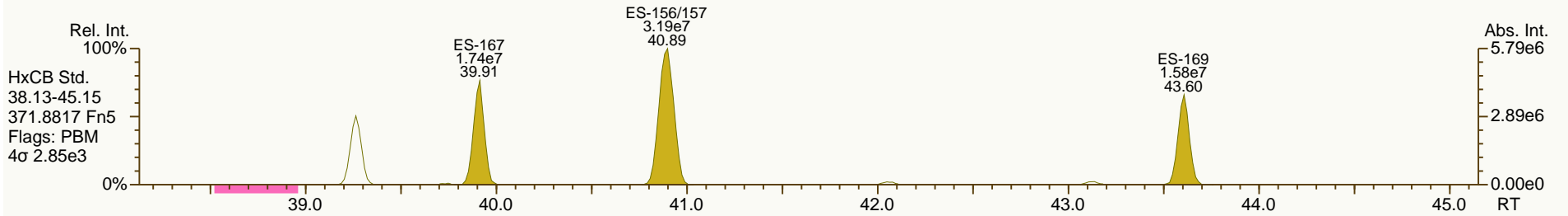
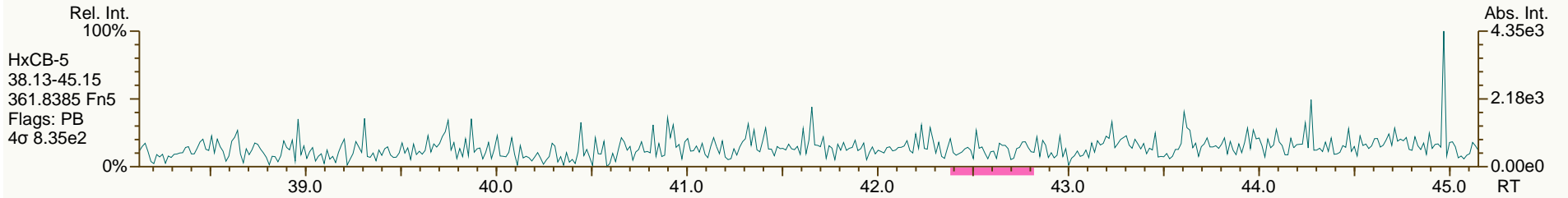
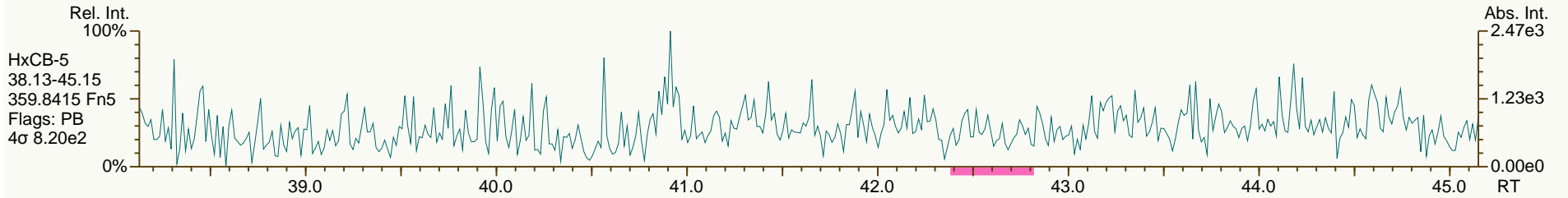
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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Sample ID: Method Blank  
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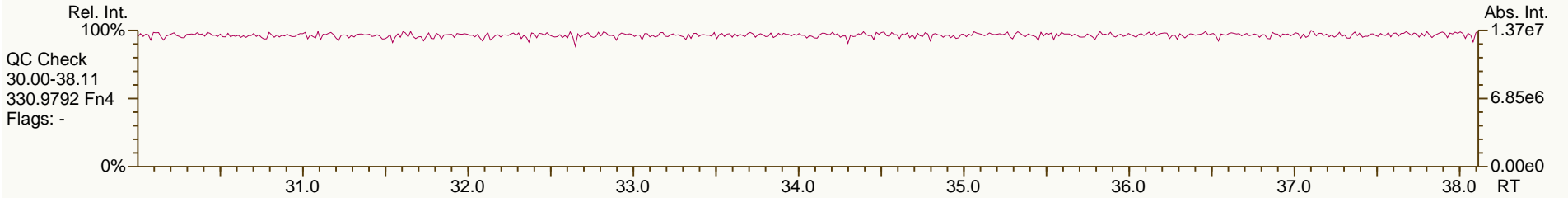
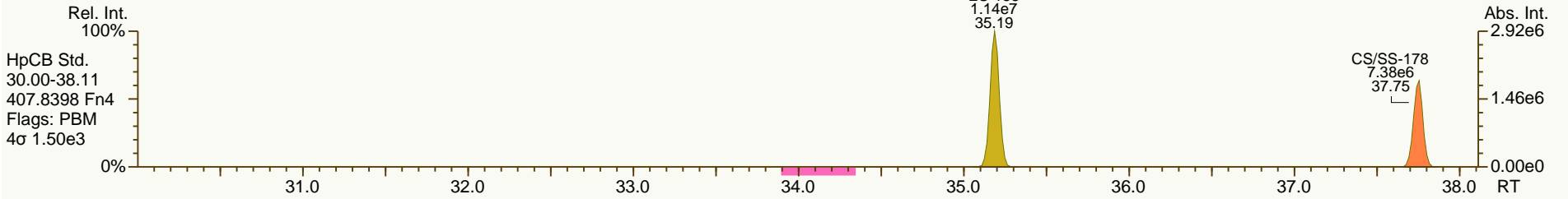
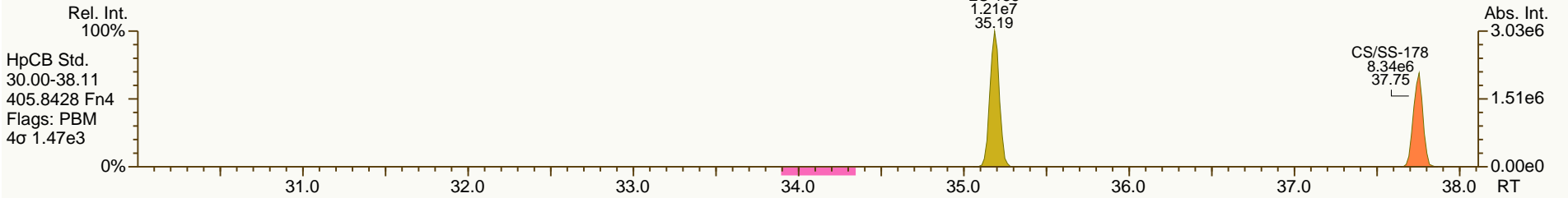
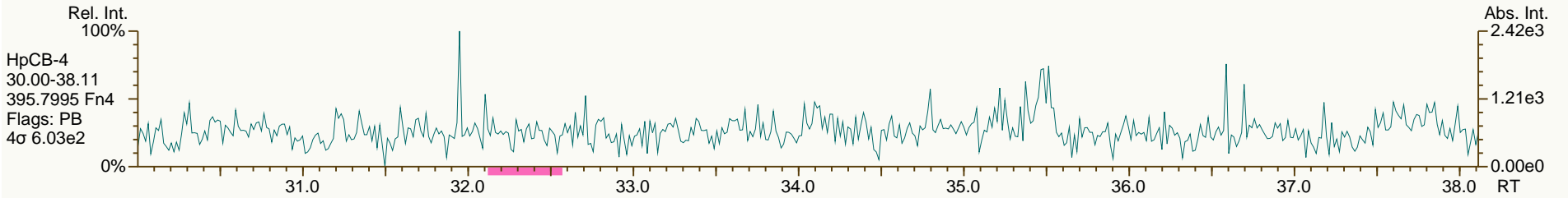
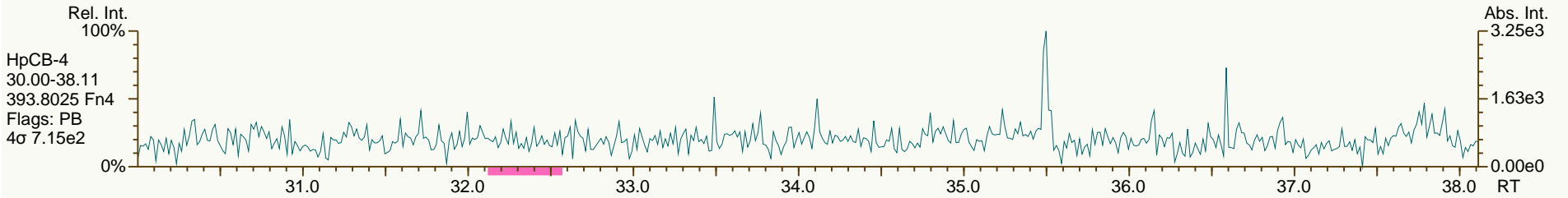
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Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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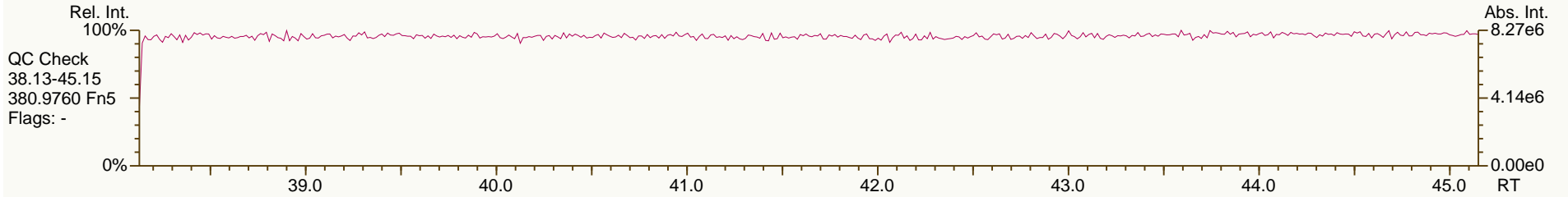
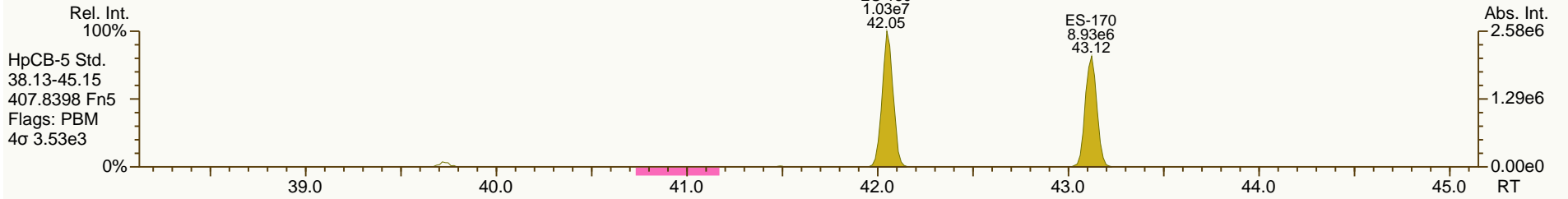
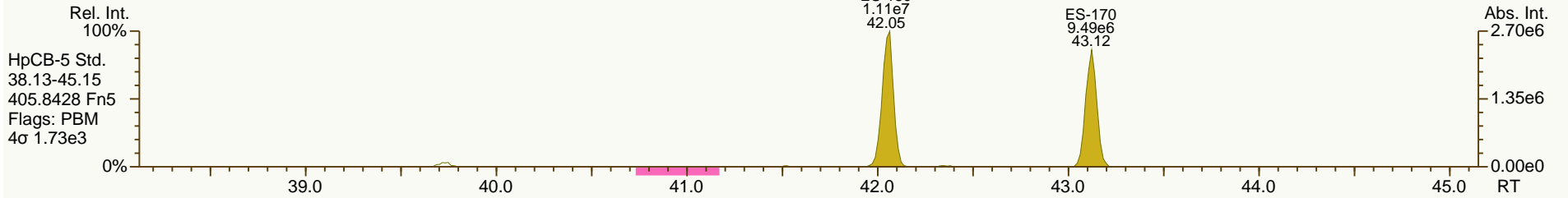
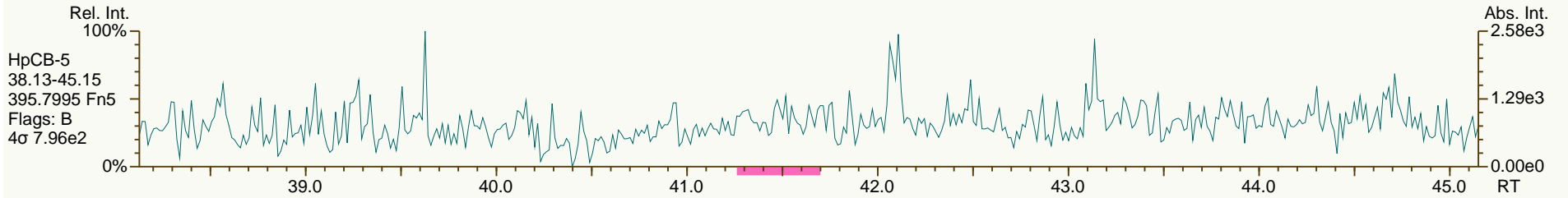
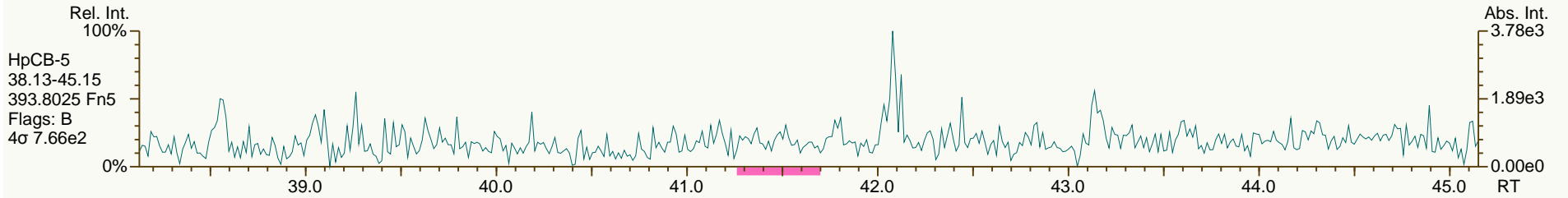
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
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Sample ID: Method Blank  
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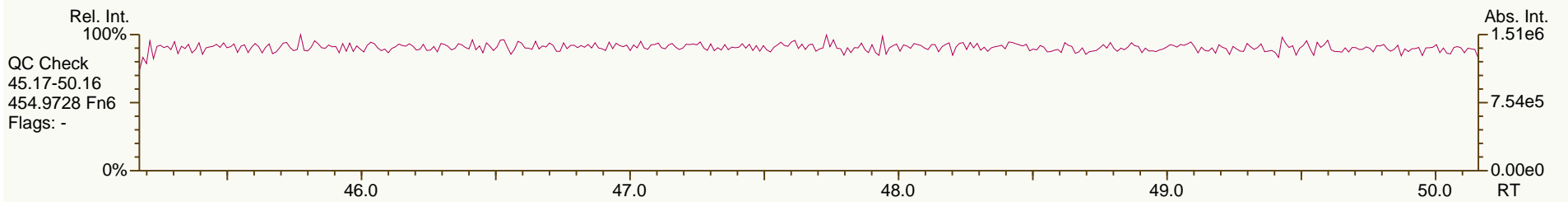
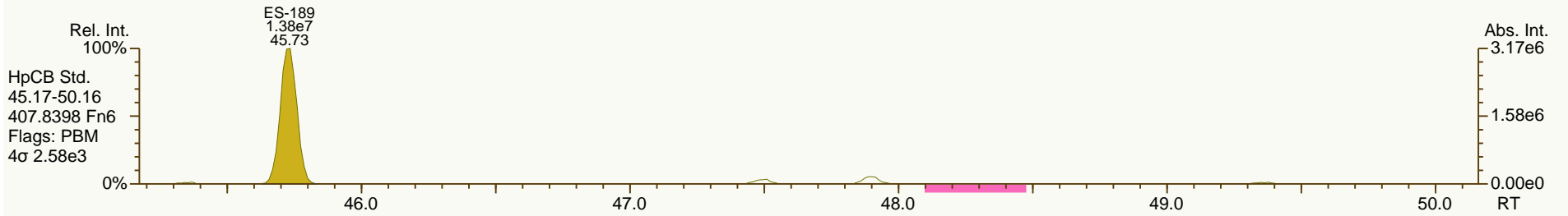
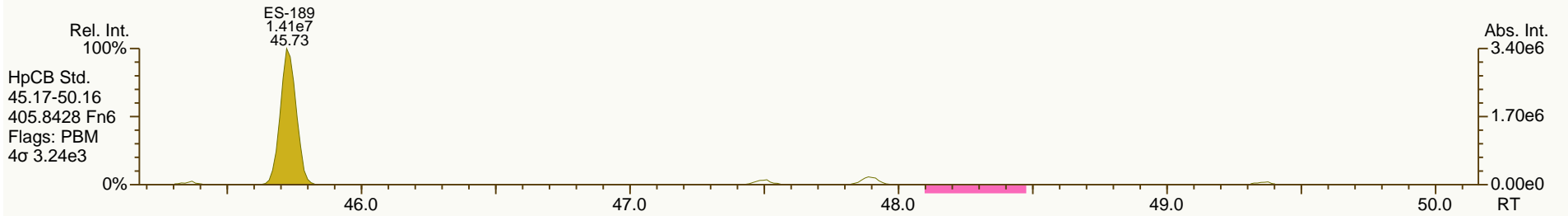
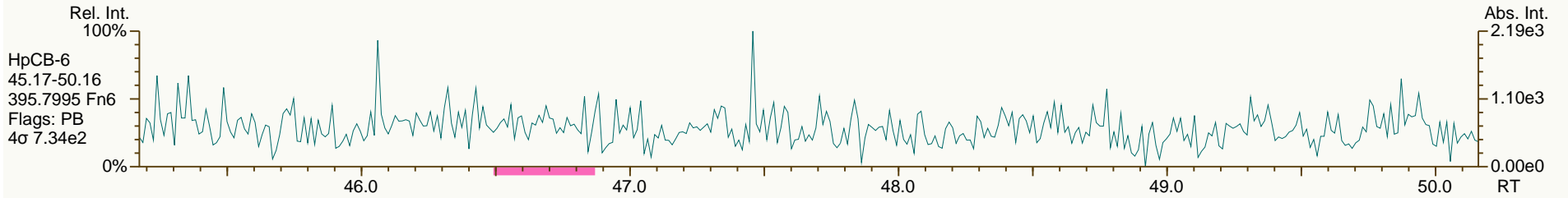
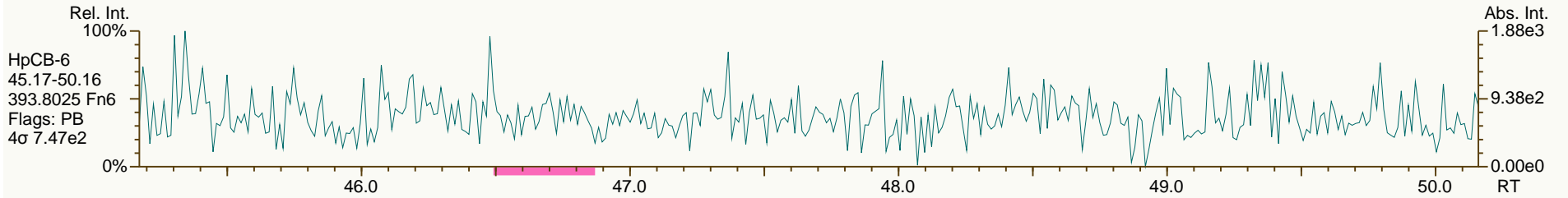




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 Instr: [ILM] AutoSpec-Premier MM7

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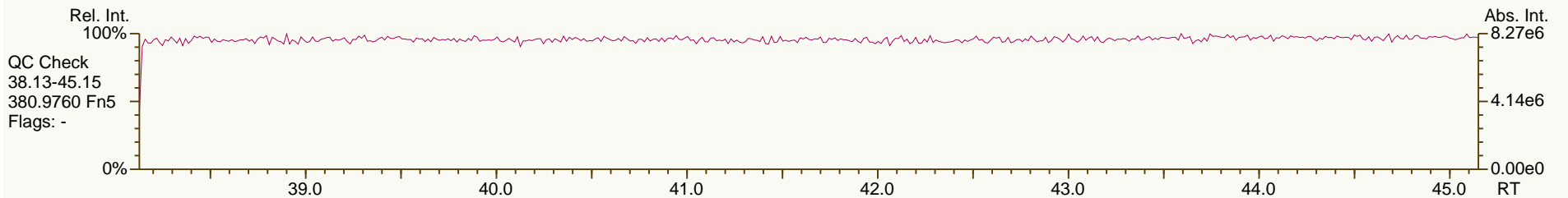
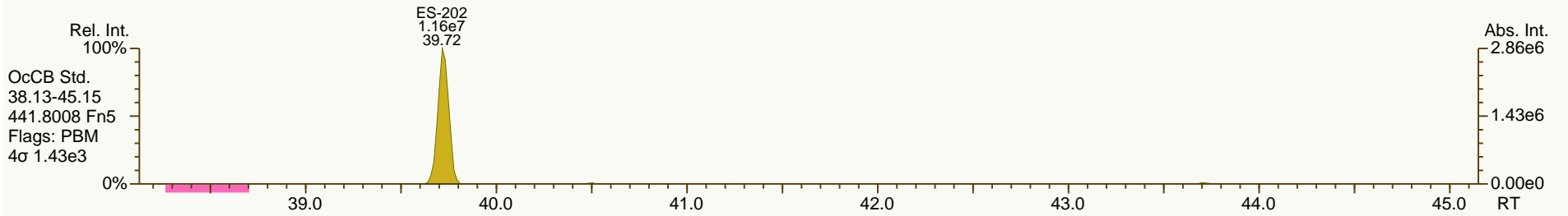
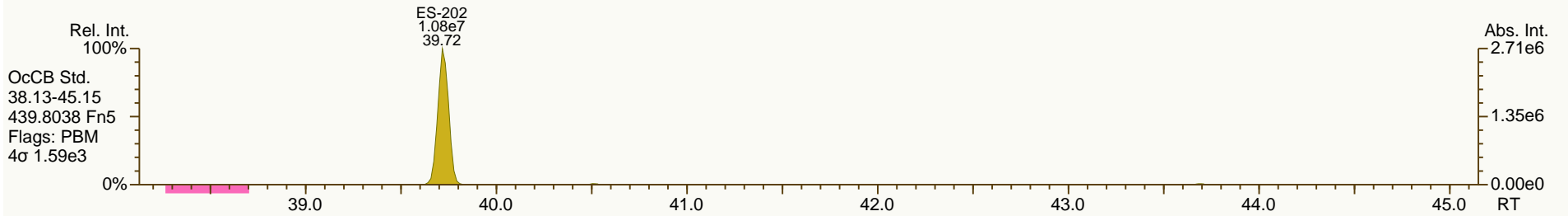
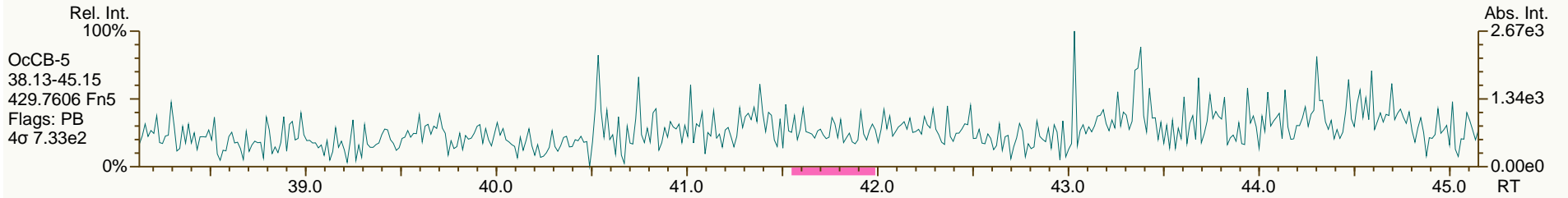
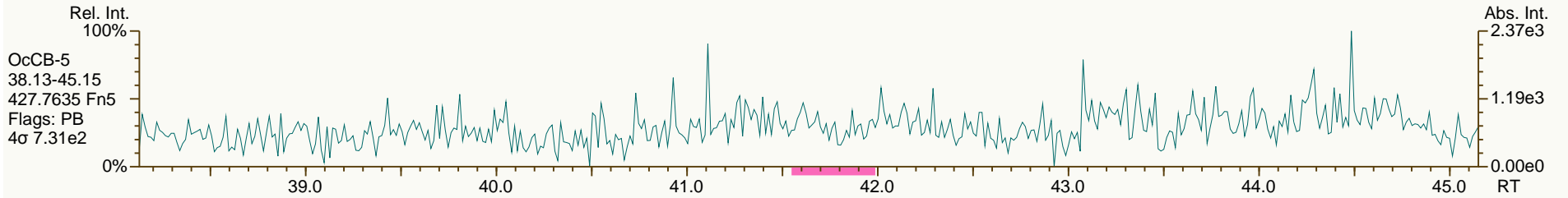
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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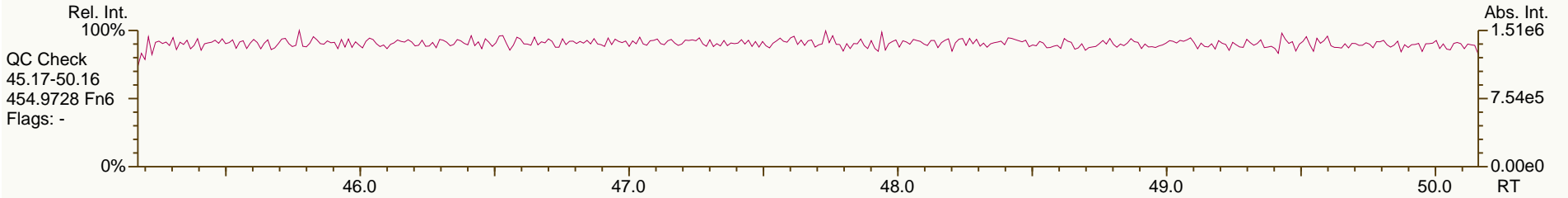
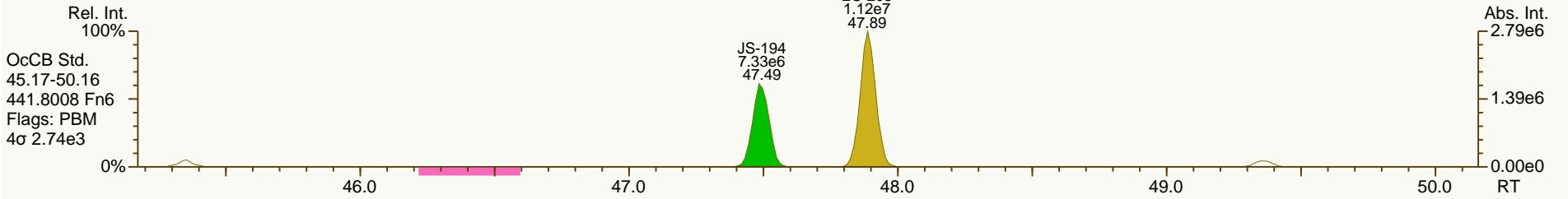
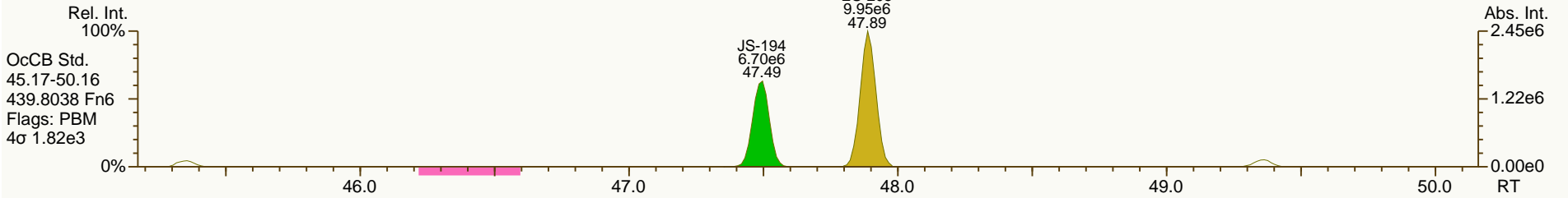
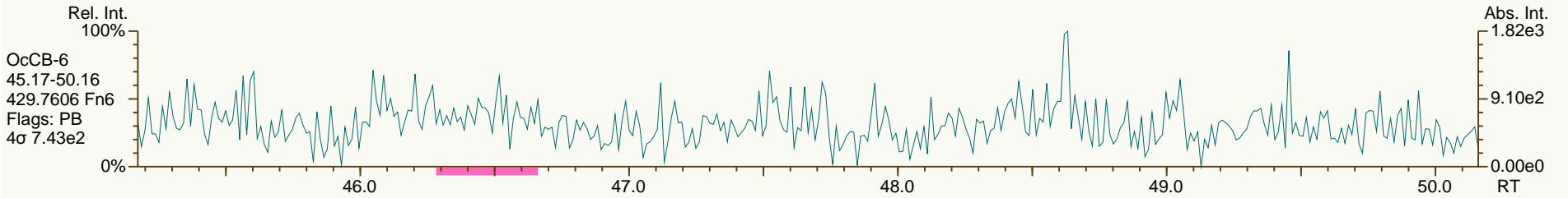
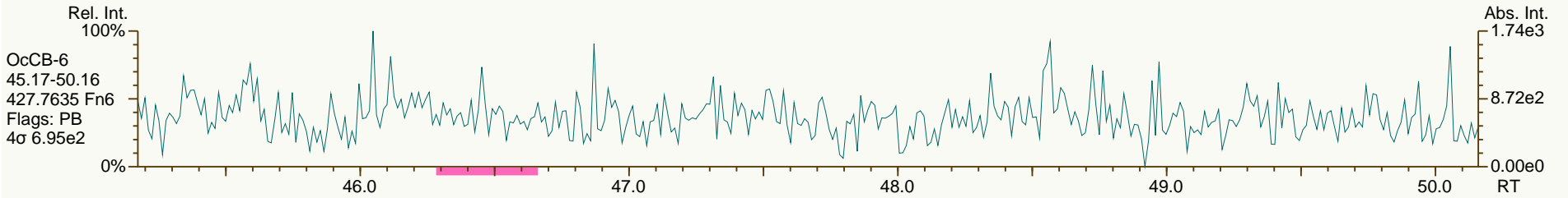
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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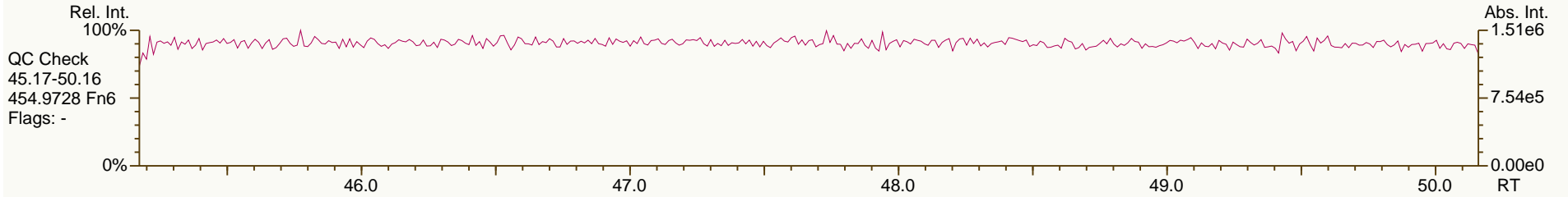
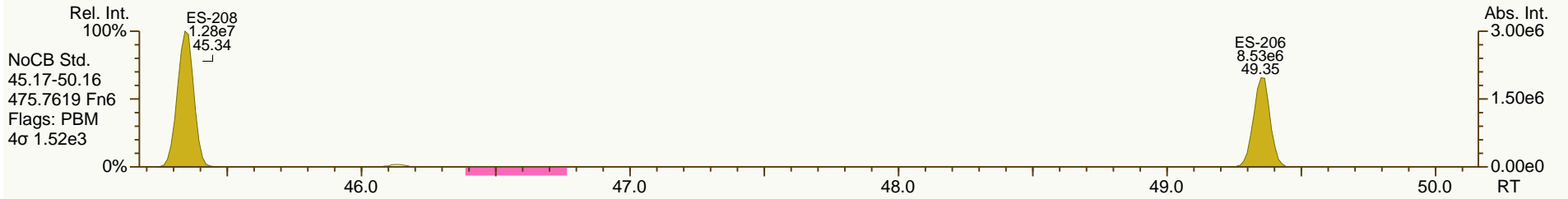
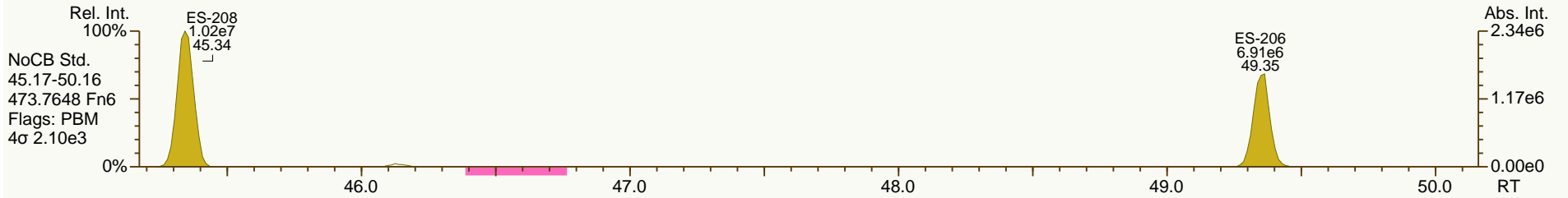
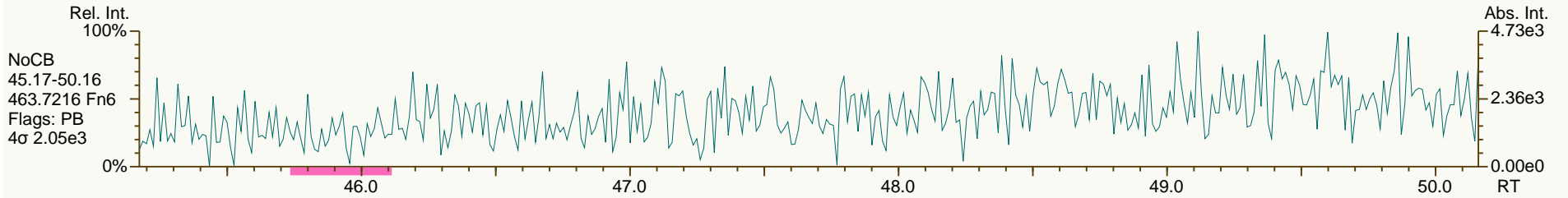
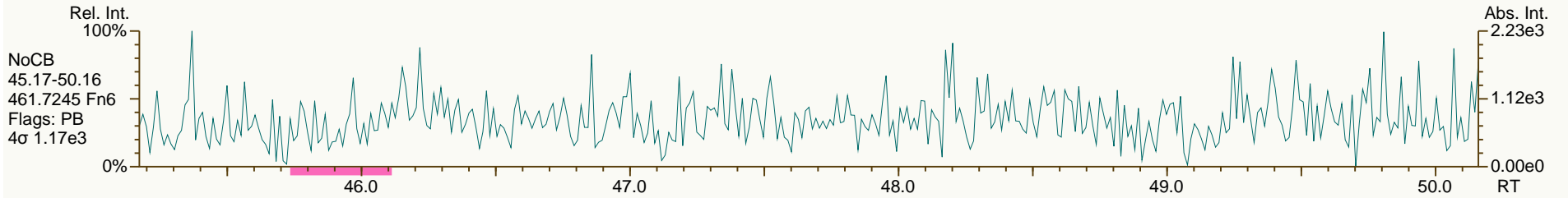
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SGS ID: MB1\_11903\_PCB\_TLX-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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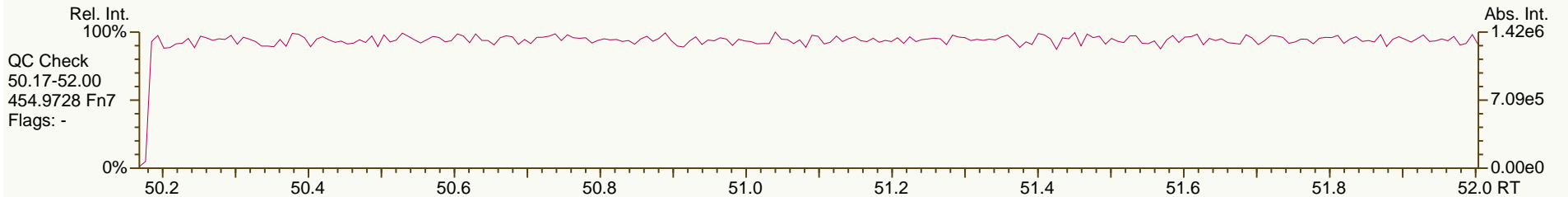
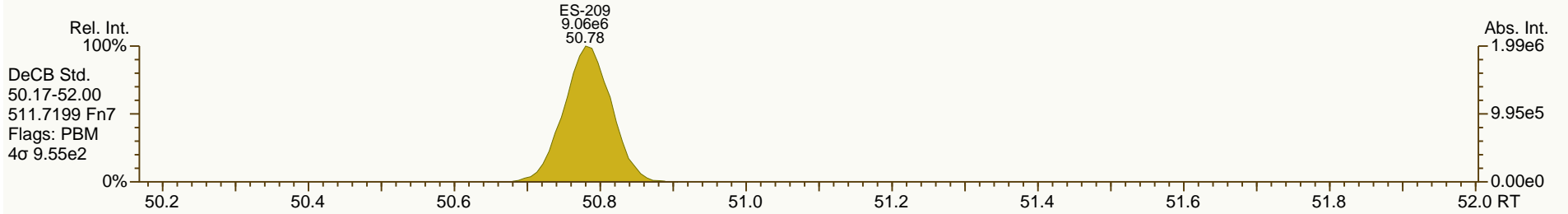
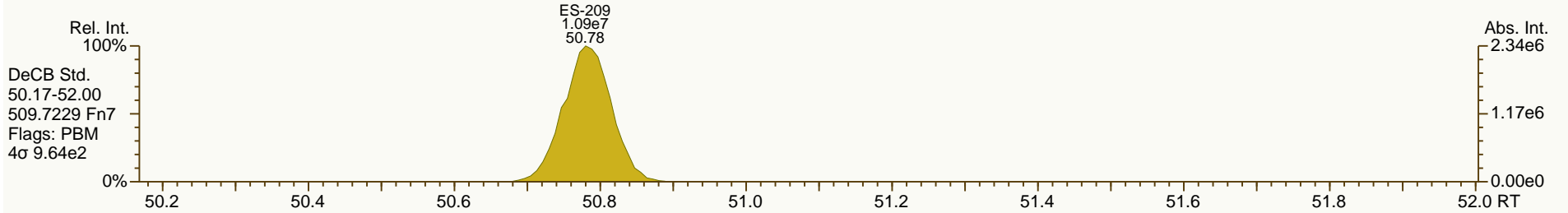
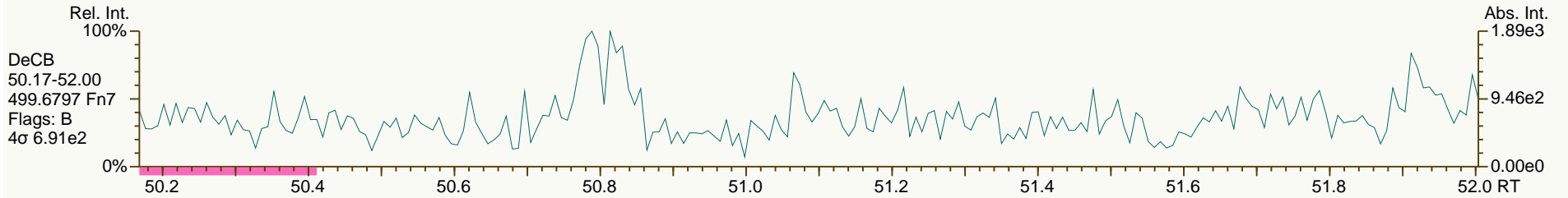
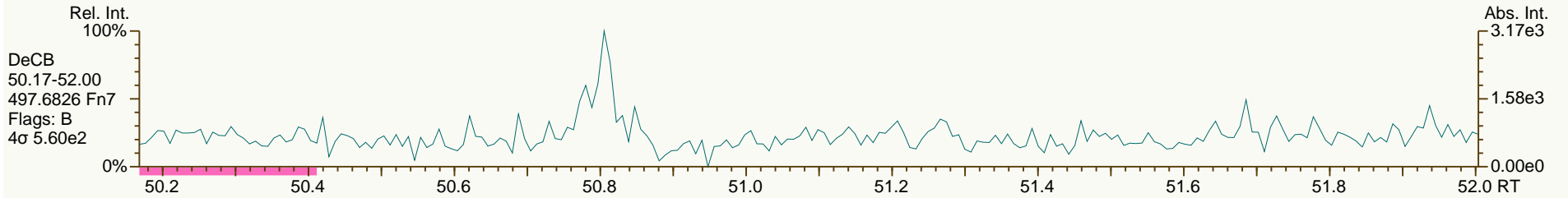
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 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 77

Acq: 28-Mar-2014 19:45:47  
 User: LKB Datafile: 140328X10



Lab ID: A6521\_11903\_PCB\_001-RJ

ACQ: 28-Mar-2014 21:35:52 LKB

Wt/Vol: 1.19 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB

Client ID: PB083-1SWMID-140318-N

UTP: 31-Mar-2014 08:14 DES

J-level: 8.38 pg/L Split: 1

Checkcode: 761-512-TRG

Datafile: 140328X12

RPT: 04-Apr-2014 10:12 ds

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.76		1.0006	1.0006	0	2.46E+06	0.81	1.15	35.4	5.32E+03	0.797
PCB-81 344'5'-TeCB	32.29	J	1.0005	1.0007	+0.4	1.19E+05	0.75	1.12	1.82	5.32E+03	0.825
PCB-105 233'44'-PeCB	35.75		1.0006	1.0006	0	5.79E+06	0.61	1.11	99.3	2.93E+03	0.508
PCB-114 2344'5'-PeCB	35.20	J	1.0007	1.0005	-0.4	3.73E+05	0.69	1.20	6.19	2.93E+03	0.482
PCB-118 23'44'5'-PeCB	34.74		1.0006	1.0006	0	1.09E+07	0.62	1.19	182	2.93E+03	0.5
PCB-123 23'44'5'-PeCB	34.46	J	1.0006	1.0007	+0.2	3.05E+05	0.69	1.21	5.04	2.93E+03	0.487
PCB-126 33'44'5'-PeCB	38.35	J	1.0005	1.0003	-0.5	6.23E+04	0.65	1.11	1.23	3.11E+03	0.627
PCB-156/157 ...-HxCB	40.89	J C	1.0005	1.0002	-0.7	5.66E+05	1.15	1.10	11.4	2.07E+03	0.571
PCB-167 23'44'55'-HxCB	39.92	J	1.0006	1.0005	-0.2	1.83E+05	1.33	1.16	3.4	2.07E+03	0.391
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	2.07E+03	0.434
PCB-189 233'44'55'-HpCB	45.75	J	1.0004	1.0005	+0.3	2.89E+04	0.89	1.07	0.645	1.67E+03	0.39
PCB-209 DeCB	50.80		1.0004	1.0004	0	1.23E+06	1.19	1.11	42.6	1.25E+03	0.499
ES PCB-1	11.86		0.7245	0.7245	0	1.23E+08	3.25	1.19	64.3 %	15%	150%
ES PCB-3	14.15		0.8640	0.8640	0	1.28E+08	3.28	1.09	73.1 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	7.56E+07	1.62	0.52	89.9 %	25%	150%
ES PCB-15	20.10		1.2271	1.2277	+0.7	1.58E+08	1.56	1.04	94.2 %	25%	150%
ES PCB-19	17.47		1.0673	1.0673	0	7.68E+07	1.05	0.51	94.3 %	25%	150%
ES PCB-37	26.42		1.0787	1.0791	+0.6	1.16E+08	1.09	1.66	83.7 %	25%	150%
ES PCB-54	20.38		0.8328	0.8325	-0.4	7.61E+07	0.78	0.86	106 %	25%	150%
ES PCB-77	32.75		1.3364	1.3374	+2.0	1.01E+08	0.80	1.38	87.6 %	25%	150%
ES PCB-81	32.27		1.3170	1.3179	+1.7	9.80E+07	0.79	1.37	85.6 %	25%	150%
ES PCB-104	25.35		0.8325	0.8321	-0.6	6.51E+07	1.61	0.80	107 %	25%	150%
ES PCB-105	35.73		1.1720	1.1725	+1.1	8.78E+07	1.59	1.20	96.5 %	25%	150%
ES PCB-114	35.18		1.1543	1.1548	+1.1	8.39E+07	1.61	1.22	91 %	25%	150%
ES PCB-118	34.72		1.1391	1.1395	+0.8	8.42E+07	1.60	1.16	96 %	25%	150%
ES PCB-123	34.44		1.1299	1.1303	+0.8	8.37E+07	1.57	1.19	93.2 %	25%	150%
ES PCB-126	38.34		1.2575	1.2582	+1.6	7.65E+07	1.54	1.03	98.2 %	25%	150%
ES PCB-153	36.30		0.9716	0.9716	0	5.84E+07	1.26	1.11	87.5 %	25%	150%
ES PCB-155	30.30		0.8114	0.8110	-0.7	7.87E+07	1.27	1.59	83.7 %	25%	150%
ES PCB-156/157	40.88		1.0939	1.0942	+0.7	1.52E+08	1.27	1.60	80.2 %	25%	150%
ES PCB-167	39.90		1.0677	1.0678	+0.2	7.75E+07	1.22	1.67	78.5 %	25%	150%
ES PCB-169	43.60		1.1664	1.1668	+1.0	7.36E+07	1.24	1.56	79.9 %	25%	150%
ES PCB-170	43.11		0.9081	0.9079	-0.5	4.69E+07	1.09	0.95	96.8 %	25%	150%
ES PCB-180	42.04		0.8856	0.8855	-0.3	5.53E+07	1.04	1.14	97.7 %	25%	150%
ES PCB-188	35.18		0.7413	0.7408	-1.1	5.58E+07	1.06	0.94	100 %	25%	150%
ES PCB-189	45.72		0.9629	0.9629	0	6.99E+07	1.03	1.58	95.1 %	25%	150%
ES PCB-202	39.71		0.8366	0.8364	-0.5	5.56E+07	0.91	0.97	96.8 %	25%	150%
ES PCB-205	47.88		1.0084	1.0084	0	5.11E+07	0.89	1.24	88.4 %	25%	150%
ES PCB-206	49.34		1.0392	1.0392	0	3.57E+07	0.80	0.83	92.6 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	5.43E+07	0.80	1.17	99.4 %	25%	150%
ES PCB-209	50.77		1.0694	1.0693	-0.3	4.36E+07	1.18	1.11	84.6 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.86		0.9339	0.9339	0	1.41E+08	1.08	1.11	109 %	30%	135%
SS PCB-111	32.76		1.0750	1.0752	+0.4	9.38E+07	1.57	1.03	109 %	30%	135%
SS PCB-178	37.74		1.0100	1.0101	+0.2	4.08E+07	1.04	0.62	118 %	30%	135%
CS PCB-28	22.86		0.9339	0.9339	0	1.41E+08	1.08	1.85	91 %	30%	135%
CS PCB-111	32.76		1.0750	1.0752	+0.4	9.38E+07	1.57	1.22	101 %	30%	135%
CS PCB-178	37.74		1.0100	1.0101	+0.2	4.08E+07	1.04	0.58	119 %	30%	135%
JS PCB-9	16.37					1.61E+08	1.56				
JS PCB-52	24.48					8.37E+07	0.79				
JS PCB-101	30.47					7.57E+07	1.62				
JS PCB-138	37.36					5.92E+07	1.25				
JS PCB-194	47.48					4.65E+07	0.89				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			30.8		30.8		0.528	
			Di-CBs			406		406		0.708	
			Tri-CBs			2,570		2,570		0.929	
			Tetra-CBs			4,970		4,970		0.58	
			Penta-CBs			1,820		1,820		0.481	
			Hexa-CBs			435		436		0.408	
			Hepta-CBs			110		122		0.465	
			Octa-CBs			27.9		31		0.423	
			Nona-CBs			6.4		7.87		1.22	
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	1.61E+06	3.09	0.95	23	5.65E+03	0.513
PCB-2 3-MoCB	13.98	J	0.9880	0.9880	0	1.87E+05	3.00	1.17	2.1	5.65E+03	0.471
PCB-3 4-MoCB	14.16	J B	1.0010	1.0009	-0.1	4.38E+05	3.16	1.01	5.7	5.65E+03	0.544
PCB-4 22'-DiCB	14.41		1.0011	1.0011	0	8.41E+06	1.58	1.23	151	6.70E+03	0.907
PCB-10 26'-DiCB	14.59	J	1.0135	1.0136	+0.1	3.85E+05	1.72	1.92	4.44	6.70E+03	0.581
PCB-9 25'-DiCB	16.39	J	1.0010	1.0010	0	6.38E+05	1.55	0.97	7.02	5.22E+03	0.535
PCB-7 24'-DiCB	16.56	J	1.0111	1.0112	+0.1	3.69E+05	1.48	1.10	3.57	5.22E+03	0.471
PCB-6 23'-DiCB	16.78		1.0249	1.0250	+0.1	4.54E+06	1.65	1.03	47	5.22E+03	0.504
PCB-5 23'-DiCB	17.08	J	1.0433	1.0435	+0.2	1.96E+05	1.50	1.03	2.02	5.22E+03	0.501
PCB-8 24'-DiCB	17.20		1.0506	1.0508	+0.2	9.88E+06	1.66	1.04	101	5.22E+03	0.499
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	5.22E+03	0.421
PCB-11 33'-DiCB	19.54	B	0.9721	0.9721	0	2.27E+06	1.64	1.06	22.7	5.22E+03	0.488
PCB-13/12 34'/34'-DiCB	19.81	J C	0.9866	0.9855	-1.3	1.51E+06	1.61	1.06	15.2	5.22E+03	0.49
PCB-15 44'-DiCB	20.11		1.0008	1.0007	-0.1	4.94E+06	1.62	1.02	51.5	5.22E+03	0.508
PCB-19 22'6-TrCB	17.49		1.0010	1.0010	0	4.19E+06	1.08	1.15	79.7	4.76E+03	0.777
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	3.64E+07	1.06	1.56	510	4.76E+03	0.571
PCB-17 22'4-TrCB	19.65		1.1243	1.1245	+0.2	1.10E+07	1.06	1.33	180	4.76E+03	0.67
PCB-27 23'6-TrCB	19.84		1.1353	1.1356	+0.4	2.59E+06	1.06	1.82	31.1	4.76E+03	0.49
PCB-24 236-TrCB	19.97	J	1.1430	1.1428	-0.2	2.72E+05	1.09	1.74	3.43	4.76E+03	0.513
PCB-16 22'3-TrCB	20.07		1.1484	1.1487	+0.4	7.80E+06	1.06	0.99	172	4.76E+03	0.901

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.55		1.1758	1.1762	+0.5	1.50E+07	1.06	1.93	170	4.76E+03	0.461
PCB-34 23'5'-TrCB	21.70	J	0.8218	0.8214	-0.5	2.10E+05	0.94	1.25	2.42	8.11E+03	0.935
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	8.11E+03	0.923
PCB-26/29 23'5'/245-TrCB	22.11	C	0.8383	0.8370	-1.7	8.03E+06	1.00	1.28	90.3	8.11E+03	0.911
PCB-25 23'4-TrCB	22.33		0.8456	0.8453	-0.4	5.51E+06	1.04	1.26	62.9	8.11E+03	0.925
PCB-31 24'5-TrCB	22.61		0.8562	0.8559	-0.4	4.32E+07	1.02	1.34	463	8.11E+03	0.869
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8662	-1.1	4.02E+07	1.02	1.26	461	8.11E+03	0.93
PCB-21/33 234/23'4'-TrCB	23.10	C	0.8738	0.8743	+0.7	1.16E+07	1.01	1.28	130	8.11E+03	0.91
PCB-22 234'-TrCB	23.45		0.8880	0.8877	-0.4	1.09E+07	1.00	1.20	131	8.11E+03	0.973
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	8.11E+03	0.885
PCB-39 34'5-TrCB	25.20	J	0.9522	0.9539	+2.6	3.59E+05	1.01	1.36	3.81	8.11E+03	0.86
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	8.11E+03	0.957
PCB-35 33'4-TrCB	26.08	J	0.9871	0.9869	-0.3	6.10E+05	1.10	1.19	7.39	8.11E+03	0.982
PCB-37 344'-TrCB	26.44		1.0007	1.0009	+0.3	5.50E+06	1.02	1.08	73.5	8.11E+03	1.08
PCB-54 22'66'-TeCB	20.40	J	1.0010	1.0009	-0.1	1.73E+05	0.83	1.35	2.83	2.05E+03	0.301
PCB-50/53 22'46/22'56'-TeCB	22.36	C	0.9145	0.9133	-1.6	8.28E+06	0.79	0.92	154	2.56E+03	0.482
PCB-45 22'36-TeCB	22.97		0.9383	0.9383	0	6.33E+06	0.78	0.84	129	2.56E+03	0.53
PCB-51 22'46'-TeCB	23.05		0.9413	0.9413	0	3.71E+06	0.79	0.90	70.9	2.56E+03	0.497
PCB-46 22'36'-TeCB	23.25		0.9499	0.9498	-0.1	2.46E+06	0.78	0.74	57.3	2.56E+03	0.604
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	4.35E+07	0.78	0.90	829	2.56E+03	0.495
PCB-73 23'5'6-TeCB	24.63	J	1.0062	1.0058	-0.6	1.11E+05	0.77	1.19	1.59	2.56E+03	0.372
PCB-43 22'35-TeCB	24.73		1.0101	1.0101	0	1.25E+06	0.76	0.75	28.3	2.56E+03	0.589
PCB-69/49 23'46/22'45'-TeCB	24.95	C	1.0181	1.0189	+1.2	2.61E+07	0.79	1.10	408	2.56E+03	0.406
PCB-48 22'45-TeCB	25.21		1.0295	1.0296	+0.2	6.62E+06	0.79	0.90	125	2.56E+03	0.492
PCB-44/47/65 ...-TeCB	25.40	C	1.0384	1.0375	-1.4	3.95E+07	0.79	0.96	702	2.56E+03	0.461
PCB-59/62/75 ...-TeCB	25.69	C	1.0496	1.0493	-0.5	3.60E+06	0.78	1.25	49.3	2.56E+03	0.355
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	8.53E+06	0.79	0.82	178	2.56E+03	0.543
PCB-41 22'34-TeCB	26.20		1.0698	1.0701	+0.5	2.33E+06	0.77	0.76	52.3	2.56E+03	0.583
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0741	+0.6	1.67E+07	0.78	0.92	312	2.56E+03	0.486
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	2.05E+07	0.78	1.33	264	2.56E+03	0.335
PCB-72 23'55'-TeCB	27.21	J	0.8436	0.8433	-0.5	2.32E+05	0.85	1.26	3.15	5.32E+03	0.73
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	2.02E+06	0.78	1.35	25.6	5.32E+03	0.683
PCB-57 233'5-TeCB	27.84	J	0.8630	0.8628	-0.3	1.76E+05	0.77	1.22	2.47	5.32E+03	0.757
PCB-58 233'5'-TeCB	28.05	J	0.8693	0.8692	-0.2	6.88E+04	0.87	1.27	0.923	5.32E+03	0.724
PCB-67 23'45-TeCB	28.20		0.8741	0.8739	-0.3	8.24E+05	0.82	1.33	10.6	5.32E+03	0.696
PCB-63 234'5-TeCB	28.43		0.8811	0.8809	-0.3	1.33E+06	0.81	1.40	16.3	5.32E+03	0.66
PCB-61/70/74/76 ...-TeCB	28.73	C	0.8902	0.8902	0	5.29E+07	0.80	1.25	726	5.32E+03	0.74
PCB-66 23'44'-TeCB	29.00		0.8989	0.8986	-0.5	3.12E+07	0.79	1.18	453	5.32E+03	0.783
PCB-55 233'4-TeCB	29.15	J	0.9034	0.9035	+0.2	3.06E+05	0.81	1.18	4.43	5.32E+03	0.781
PCB-56 233'4'-TeCB	29.58		0.9169	0.9167	-0.4	1.54E+07	0.79	1.17	225	5.32E+03	0.791
PCB-60 2344'-TeCB	29.77		0.9229	0.9227	-0.4	6.79E+06	0.80	1.20	96.8	5.32E+03	0.768
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	5.32E+03	0.67
PCB-79 33'45'-TeCB	31.48		0.9737	0.9754	+3.2	6.82E+05	0.81	1.37	8.5	5.32E+03	0.672
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	5.32E+03	0.805
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.61E+03	0.282
PCB-96 22'366'-PeCB	25.69	J	1.0134	1.0135	+0.2	3.34E+05	0.63	1.18	7.27	1.61E+03	0.341
PCB-103 22'45'6-PeCB	27.38	J	0.8989	0.8986	-0.5	1.24E+05	0.66	0.93	2.67	2.93E+03	0.632
PCB-94 22'356'-PeCB	27.57	J	0.9051	0.9049	-0.3	1.31E+05	0.57	0.79	3.32	2.93E+03	0.747



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.95		0.9176	0.9174	-0.3	9.33E+06	0.62	0.86	217	2.93E+03	0.684
PCB-100/93 22'44'6/22'356-PeCB	28.17	J C	0.9246	0.9244	-0.3	2.21E+05	0.64	0.86	5.16	2.93E+03	0.687
PCB-102 22'456'-PeCB	28.27		0.9282	0.9280	-0.3	7.59E+05	0.57	1.00	15.2	2.93E+03	0.589
PCB-98 22'34'6'-PeCB	28.35	J	0.9305	0.9305	0	3.59E+04	0.56	0.74	0.974	2.93E+03	0.8
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	2.93E+03	0.759
PCB-91 22'34'6-PeCB	28.71		0.9424	0.9423	-0.2	2.42E+06	0.62	0.92	52.7	2.93E+03	0.641
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	3.68E+06	0.64	0.71	103	2.93E+03	0.826
PCB-89 22'346'-PeCB	29.32		0.9624	0.9624	0	4.01E+05	0.55	0.76	10.6	2.93E+03	0.777
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	2.93E+03	0.493
PCB-92 22'355'-PeCB	29.98		0.9841	0.9840	-0.2	1.83E+06	0.61	0.81	45.1	2.93E+03	0.727
PCB-113/90/101 ...-PeCB	30.49	C	0.9999	1.0007	+1.5	1.10E+07	0.62	0.96	230	2.93E+03	0.614
PCB-83 22'33'5-PeCB	30.89		1.0142	1.0139	-0.6	5.24E+05	0.63	0.70	15.1	2.93E+03	0.846
PCB-99 22'44'5-PeCB	31.00		1.0173	1.0173	0	6.56E+06	0.61	0.90	146	2.93E+03	0.657
PCB-112 233'56-PeCB	31.11	J	1.0206	1.0211	+0.9	6.24E+04	0.63	1.17	1.07	2.93E+03	0.505
PCB-108/119/86/97/125...-PeCB	31.47	C	1.0320	1.0330	+1.9	1.01E+07	0.61	0.98	207	2.93E+03	0.604
PCB-117 234'56-PeCB	31.98		1.0495	1.0497	+0.4	5.26E+05	0.66	1.18	8.96	2.93E+03	0.501
PCB-116/85 23456/22'344'-PeCB	32.06	C	1.0525	1.0523	-0.4	3.00E+06	0.62	0.88	68.5	2.93E+03	0.674
PCB-110 233'4'6-PeCB	32.19		1.0561	1.0564	+0.6	1.60E+07	0.61	1.10	292	2.93E+03	0.538
PCB-115 2344'6-PeCB	32.28	J	1.0590	1.0594	+0.8	4.40E+05	0.63	1.16	7.61	2.93E+03	0.51
PCB-82 22'33'4-PeCB	32.47		1.0655	1.0657	+0.4	1.80E+06	0.60	0.69	52.4	2.93E+03	0.857
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	2.93E+03	0.489
PCB-120 23'455'-PeCB	33.17	J EMPC	1.0887	1.0887	0	4.16E+04	0.78	1.22	0.681	2.93E+03	0.482
PCB-107/124 ...-PeCB	34.15	J C	0.9916	0.9917	+0.2	4.74E+05	0.64	1.11	8.58	2.93E+03	0.532
PCB-109 233'46-PeCB	34.36		0.9976	0.9977	+0.2	9.71E+05	0.62	1.24	15.7	2.93E+03	0.476
PCB-106 233'45-PeCB	34.55	J	1.0038	1.0033	-1.0	6.53E+04	0.54	1.11	1.18	2.93E+03	0.532
PCB-122 233'4'5'-PeCB	35.03	J	1.0091	1.0091	0	2.37E+05	0.65	1.03	4.58	2.93E+03	0.561
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	2.93E+03	0.507
PCB-155 22'44'66'-HxCB	30.32	J EMPC	1.0007	1.0006	-0.2	1.95E+04	0.84	1.26	0.329	1.38E+03	0.237
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.14	ND	1.38E+03	0.263
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.38E+03	0.259
PCB-136 22'33'66'-HxCB	30.93		1.0207	1.0208	+0.2	6.93E+05	1.26	1.06	14	1.38E+03	0.282
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.38E+03	0.273
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.38E+03	0.356
PCB-151/135 ...-HxCB	32.99	C	1.0886	1.0887	+0.2	1.07E+06	1.26	1.09	28.2	1.38E+03	0.374
PCB-154 22'44'56'-HxCB	33.20	J	1.0954	1.0957	+0.6	4.93E+04	1.41	1.29	1.1	1.38E+03	0.318
PCB-144 22'345'6-HxCB	33.47	J	1.1041	1.1044	+0.6	1.67E+05	1.24	1.14	4.2	1.38E+03	0.359
PCB-147/149 ...-HxCB	33.76	C	1.1141	1.1143	+0.4	2.76E+06	1.28	1.11	71	1.38E+03	0.367
PCB-134 22'33'56-HxCB	33.94	J	1.1199	1.1202	+0.6	2.08E+05	1.17	0.93	6.39	1.38E+03	0.438
PCB-143 22'3456'-HxCB	34.03	J	1.1225	1.1232	+1.4	2.55E+04	1.27	1.02	0.717	1.38E+03	0.4
PCB-139/140 ...-HxCB	34.28	J C	1.1312	1.1314	+0.4	9.33E+04	1.22	1.13	2.37	1.38E+03	0.361
PCB-131 22'33'46-HxCB	34.46	J	1.1369	1.1372	+0.6	6.25E+04	1.12	0.98	1.84	1.38E+03	0.419
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.38E+03	0.431
PCB-132 22'33'46'-HxCB	34.84		1.1494	1.1499	+1.0	1.28E+06	1.25	0.99	37.2	1.38E+03	0.413
PCB-133 22'33'55'-HxCB	35.25	J	1.1626	1.1634	+1.7	5.22E+04	1.36	1.05	1.43	1.38E+03	0.39
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.38E+03	0.302
PCB-146 22'34'55'-HxCB	35.80		0.9582	0.9580	-0.4	5.52E+05	1.19	1.15	13.8	1.38E+03	0.356
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.38E+03	0.277
PCB-153/168 ...-HxCB	36.32	C	0.9728	0.9722	-1.3	3.42E+06	1.23	1.42	69.2	1.38E+03	0.289

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.49		0.9766	0.9766	0	6.12E+05	1.21	1.04	16.9	1.38E+03	0.394
PCB-130 22'33'45'-HxCB	36.84	J	0.9859	0.9859	0	2.43E+05	1.25	0.92	7.57	1.38E+03	0.444
PCB-137 22'344'5-HxCB	37.03	J	0.9911	0.9911	0	2.14E+05	1.33	1.11	5.51	1.38E+03	0.367
PCB-164 233'4'5'6-HxCB	37.12	J	0.9933	0.9933	0	3.51E+05	1.20	1.43	7.06	1.38E+03	0.287
PCB-163/138/129 ...-HxCB	37.39	C	1.0011	1.0007	-0.9	4.20E+06	1.24	1.15	105	1.38E+03	0.357
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.38E+03	0.294
PCB-158 233'44'6-HxCB	37.73		1.0096	1.0096	0	5.38E+05	1.33	1.53	10.1	1.38E+03	0.267
PCB-128/166 ...-HxCB	38.47	J C	0.9641	0.9642	+0.2	6.88E+05	1.26	0.90	16.5	2.07E+03	0.503
PCB-159 233'455'-HxCB	39.26	J EMPC	0.9844	0.9840	-0.9	3.81E+04	1.59	1.10	0.749	2.07E+03	0.413
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.10	ND	2.07E+03	0.411
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.06E+03	0.258
PCB-179 22'33'566'-HpCB	35.48	J	1.0086	1.0087	+0.2	2.67E+05	1.01	1.13	7.12	1.06E+03	0.29
PCB-184 22'344'66'-HpCB	NotFnd		1.0216	-		0.00E+00		1.06	ND	1.06E+03	0.31
PCB-176 22'33'466'-HpCB	36.24	J	1.0300	1.0301	+0.2	7.44E+04	1.10	1.15	1.95	1.06E+03	0.285
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.06E+03	0.305
PCB-178 22'33'55'6-HpCB	37.76	J	1.0733	1.0735	+0.5	8.35E+04	1.17	0.77	3.24	1.06E+03	0.423
PCB-175 22'33'45'6-HpCB	38.32	J EMPC	1.0887	1.0893	+1.4	2.36E+04	0.79	1.07	0.667	1.95E+03	0.577
PCB-187 22'34'55'6-HpCB	38.53		1.0952	1.0954	+0.5	6.95E+05	1.04	1.15	18.3	1.95E+03	0.538
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.95E+03	0.526
PCB-183 22'344'5'6-HpCB	39.05	J	1.1101	1.1102	+0.2	3.07E+05	1.11	1.20	7.79	1.95E+03	0.518
PCB-185 22'3455'6-HpCB	39.13	J	1.1125	1.1125	0	5.40E+04	1.18	1.10	1.48	1.95E+03	0.561
PCB-174 22'33'456'-HpCB	39.25		1.1156	1.1159	+0.7	4.91E+05	1.14	0.94	15.9	1.95E+03	0.661
PCB-177 22'33'45'6'-HpCB	39.63	J EMPC	1.1262	1.1266	+1.0	2.32E+05	1.24	0.92	7.61	1.95E+03	0.671
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.95E+03	0.578
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1418	+1.2	1.45E+05	0.96	0.94	4.68	1.95E+03	0.661
PCB-172 22'33'455'-HpCB	41.50	J EMPC	0.9080	0.9078	-0.5	8.48E+04	1.21	0.98	2.63	1.95E+03	0.633
PCB-192 233'455'6-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.95E+03	0.481
PCB-180/193 ...-HpCB	42.06	C	0.9194	0.9200	+1.5	1.29E+06	1.05	1.24	31.5	1.95E+03	0.498
PCB-191 233'44'5'6-HpCB	42.36	J EMPC	0.9266	0.9264	-0.5	3.08E+04	0.78	1.38	0.677	1.95E+03	0.448
PCB-170 22'33'44'5-HpCB	43.13		0.9434	0.9434	0	4.68E+05	0.98	1.13	14.7	1.95E+03	0.66
PCB-190 233'44'56-HpCB	43.58	J	0.9533	0.9532	-0.3	1.24E+05	0.97	1.60	2.78	1.95E+03	0.469
PCB-202 22'33'55'66'-OoCB	39.74	J	1.0005	1.0006	+0.2	7.18E+04	0.92	1.05	2.06	1.21E+03	0.356
PCB-201 22'33'45'66'-OoCB	40.52	J	1.0203	1.0202	-0.2	4.39E+04	0.91	1.14	1.16	1.21E+03	0.327
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.21E+03	0.349
PCB-197 22'33'44'66'-OoCB	41.29	J EMPC	1.0396	1.0396	0	2.12E+04	0.70	1.10	0.581	1.21E+03	0.34
PCB-200 22'33'4566'-OoCB	41.38	J	1.0418	1.0420	+0.5	3.07E+04	0.89	1.08	0.853	1.21E+03	0.345
PCB-198/199 ...-OoCB	43.71	J C	1.1001	1.1007	+1.6	2.27E+05	1.00	0.74	9.2	1.21E+03	0.503
PCB-196 22'33'44'56'-OoCB	44.27	J	1.1146	1.1148	+0.5	9.35E+04	0.93	0.80	3.55	1.21E+03	0.471
PCB-203 22'344'55'6-OoCB	44.44	J	1.1188	1.1191	+0.8	1.27E+05	0.79	0.83	4.61	1.21E+03	0.449
PCB-195 22'33'44'56-OoCB	45.56	J EMPC	0.9516	0.9515	-0.3	5.50E+04	1.04	0.72	2.5	1.53E+03	0.719
PCB-194 22'33'44'55'-OoCB	47.50	J	0.9921	0.9921	0	1.59E+05	1.00	0.81	6.46	1.53E+03	0.644
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.53E+03	0.49
PCB-208 22'33'455'66'-NoCB	45.36	J	1.0005	1.0006	+0.3	7.96E+04	0.78	1.12	2.19	3.39E+03	0.95
PCB-207 22'33'44'566'-NoCB	46.14	J EMPC	1.0178	1.0178	0	5.60E+04	0.94	1.18	1.47	3.39E+03	0.908
PCB-206 22'33'44'55'6-NoCB	49.37	J	1.0004	1.0005	+0.3	9.99E+04	0.70	1.11	4.21	3.39E+03	1.49

SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 79

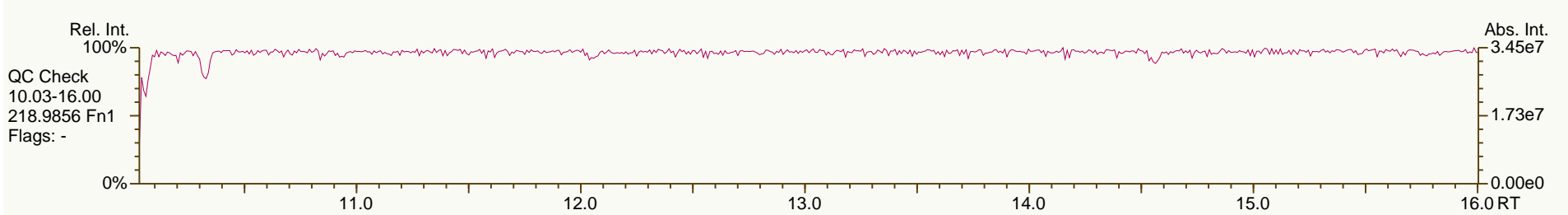
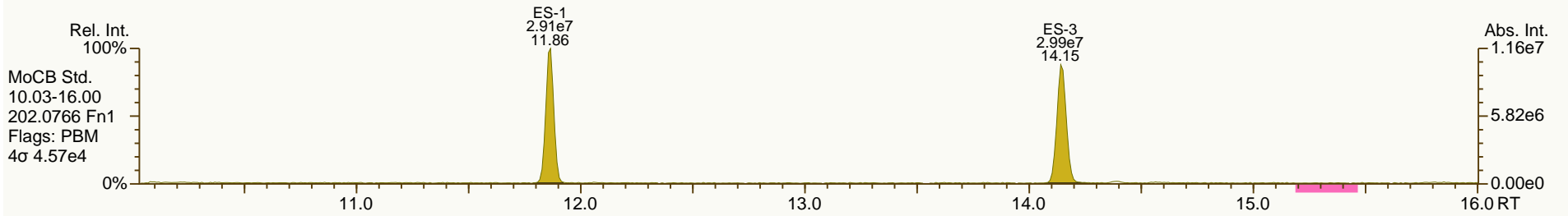
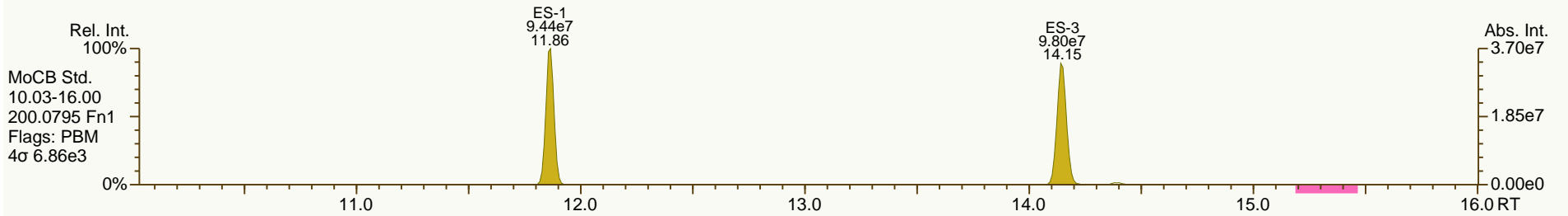
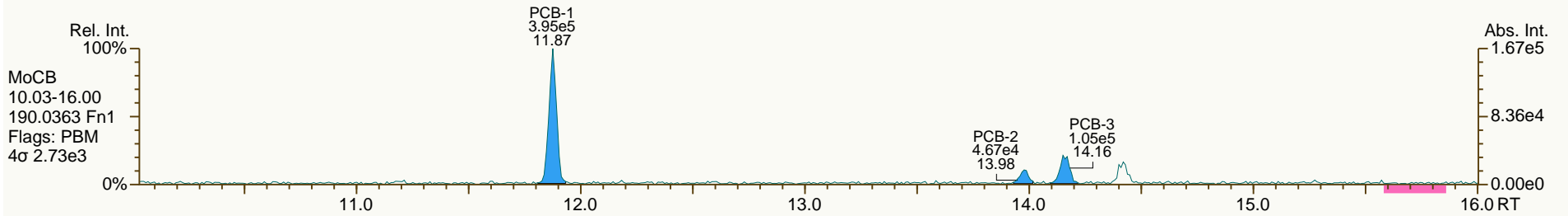
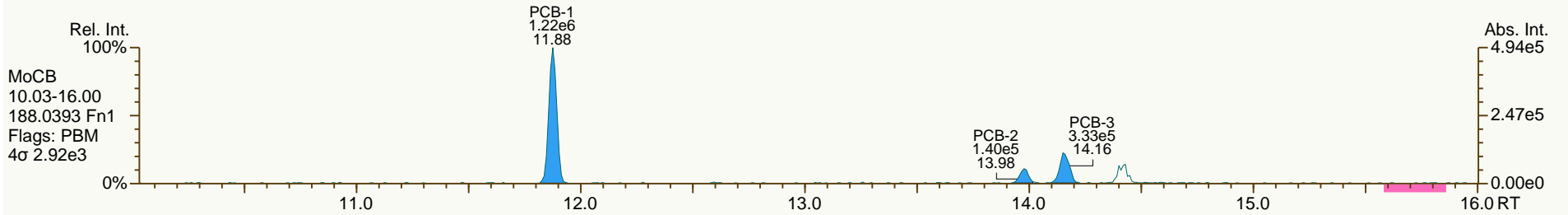
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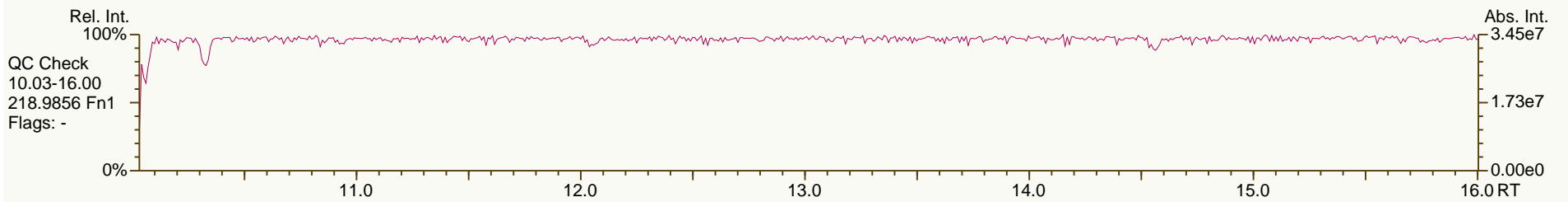
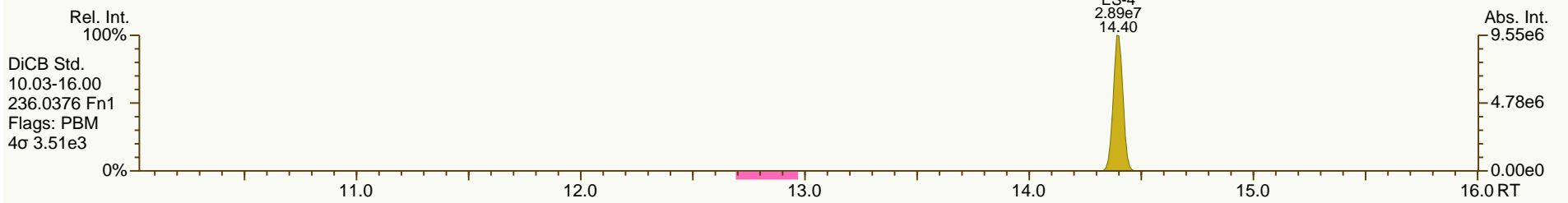
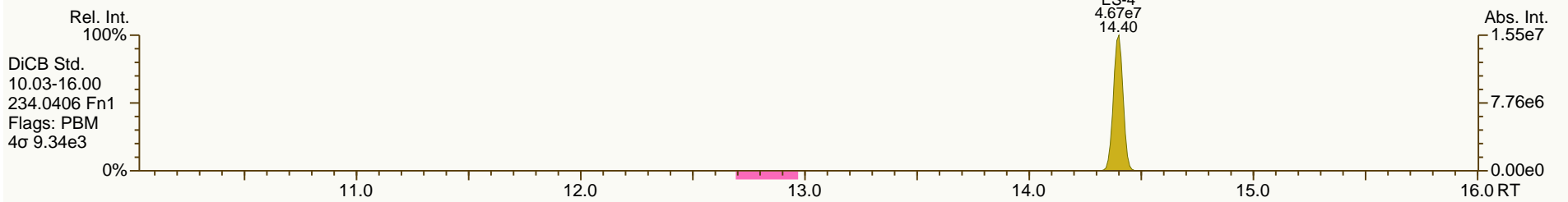
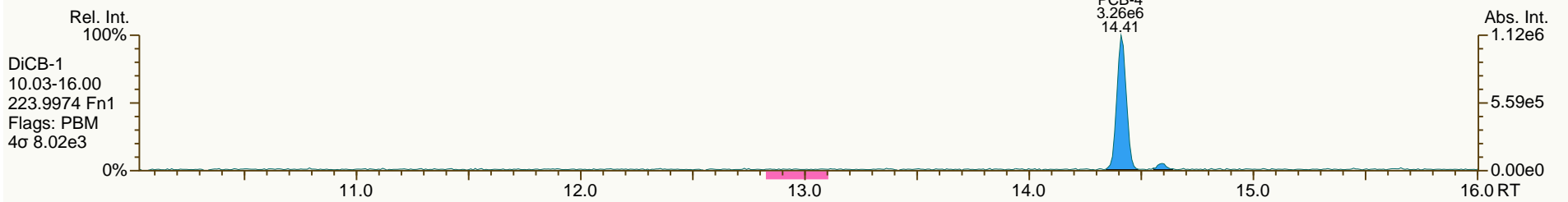
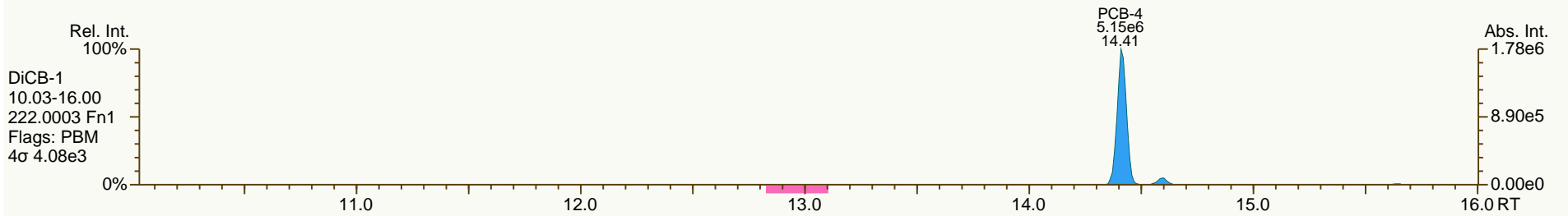
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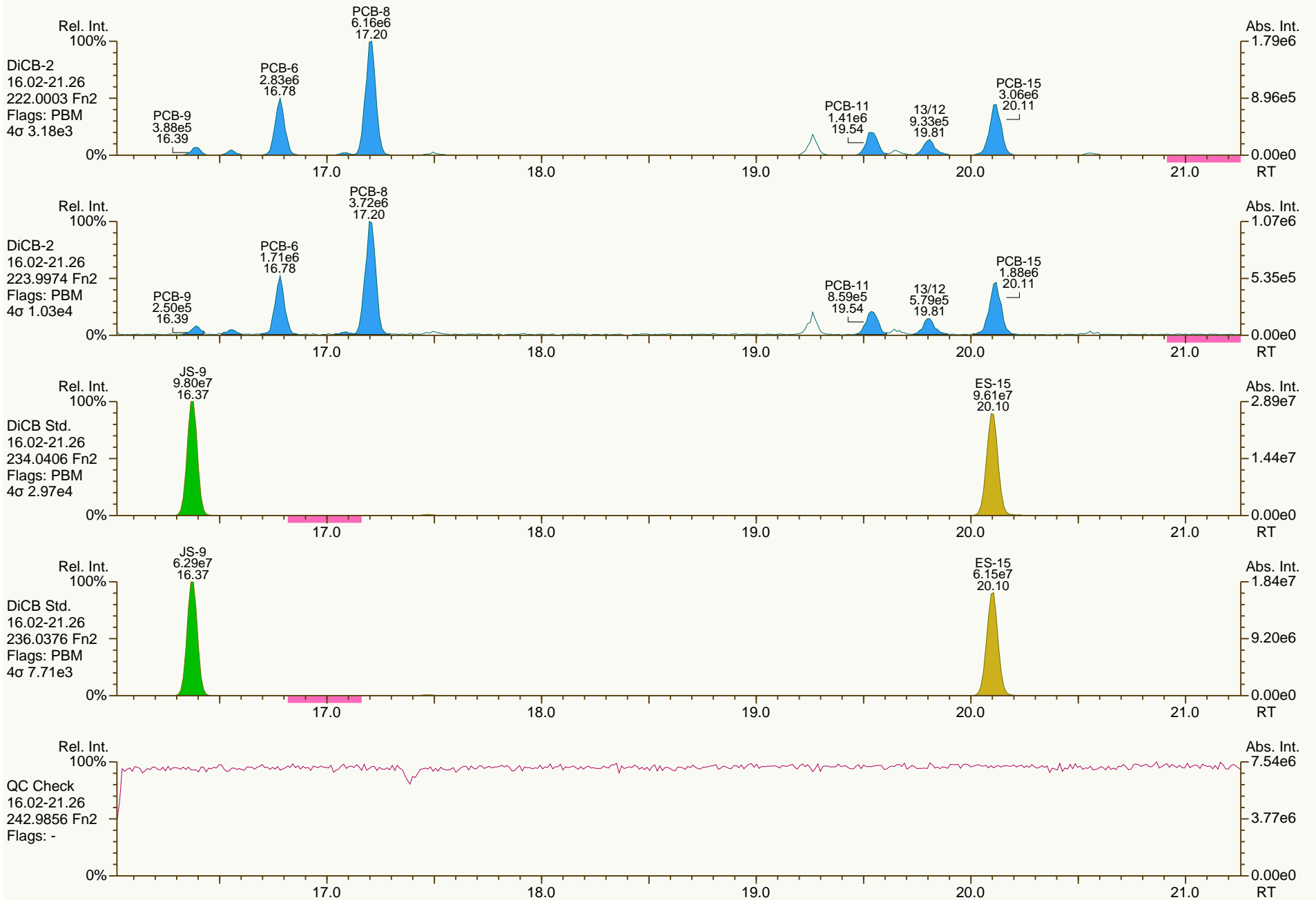
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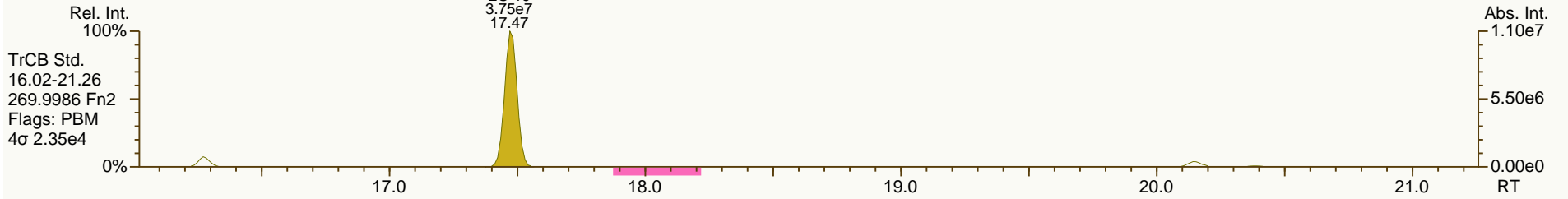
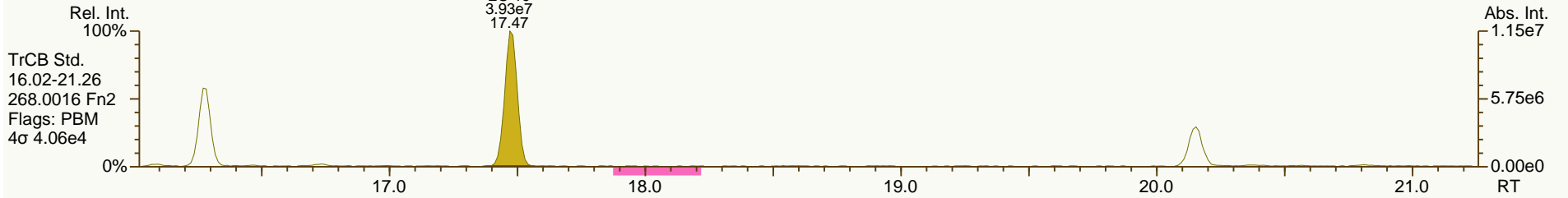
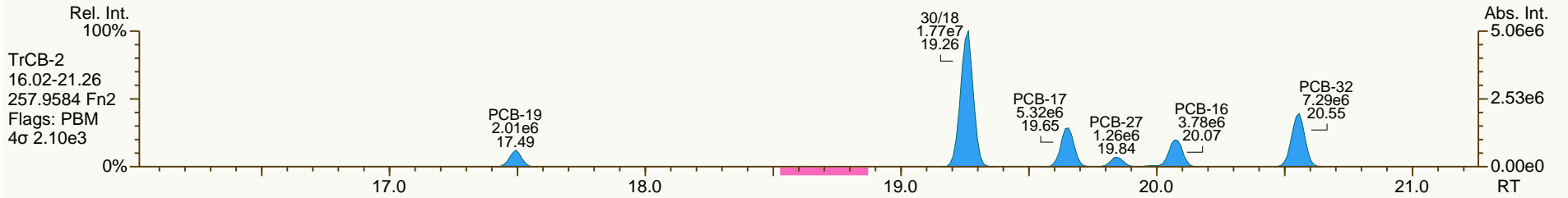
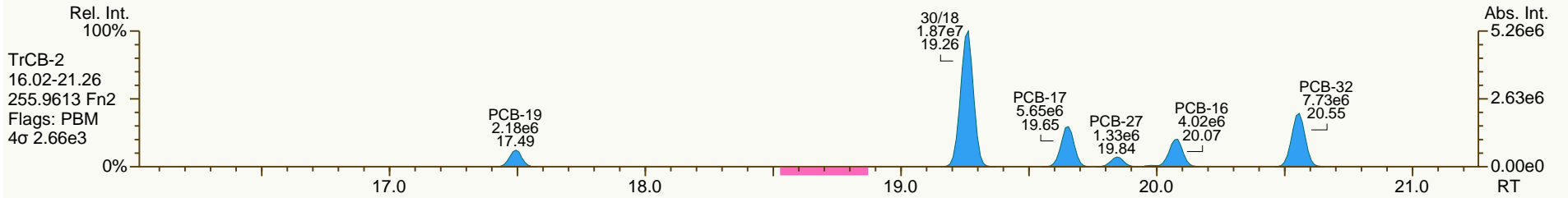
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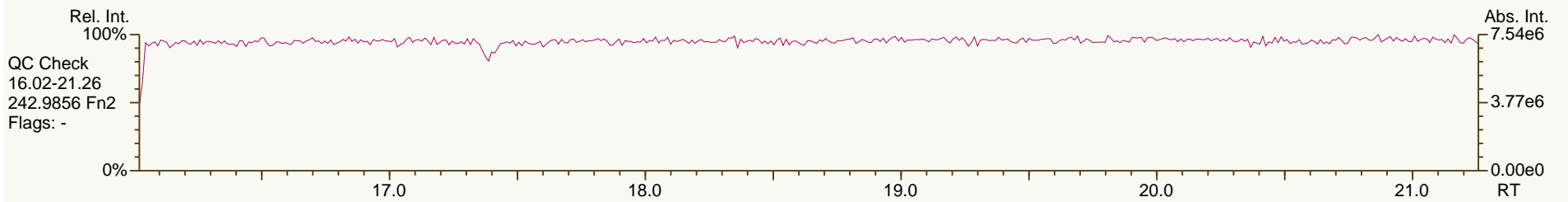
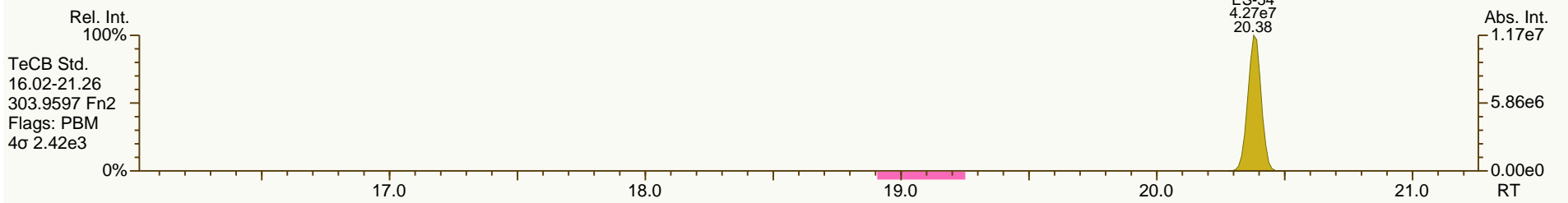
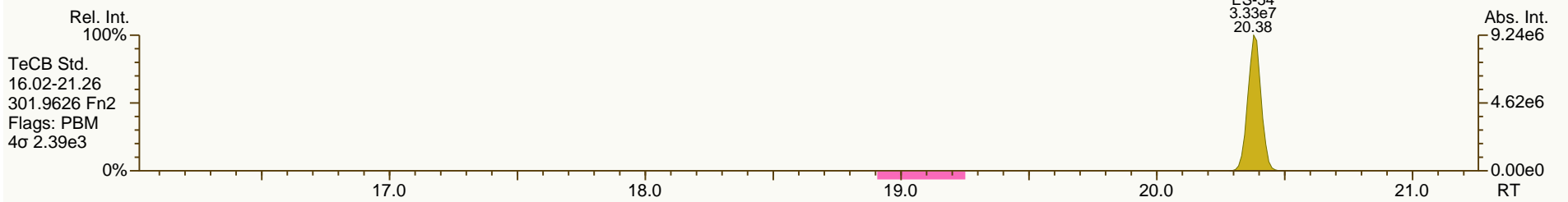
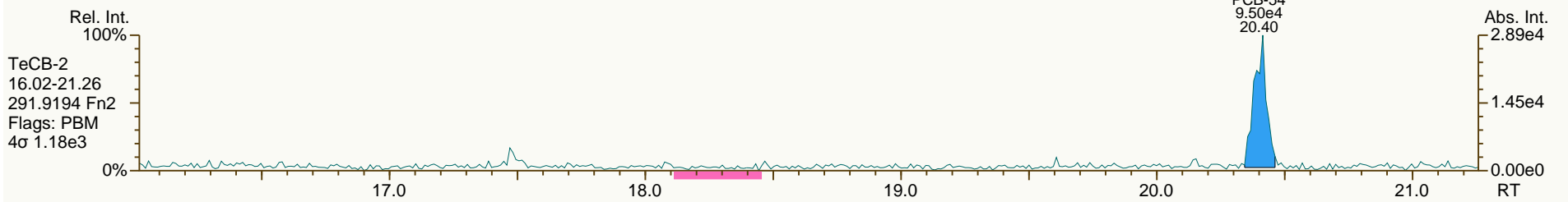
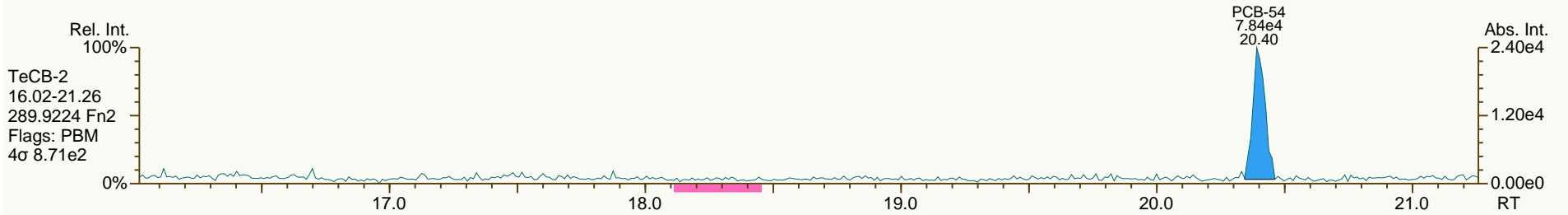




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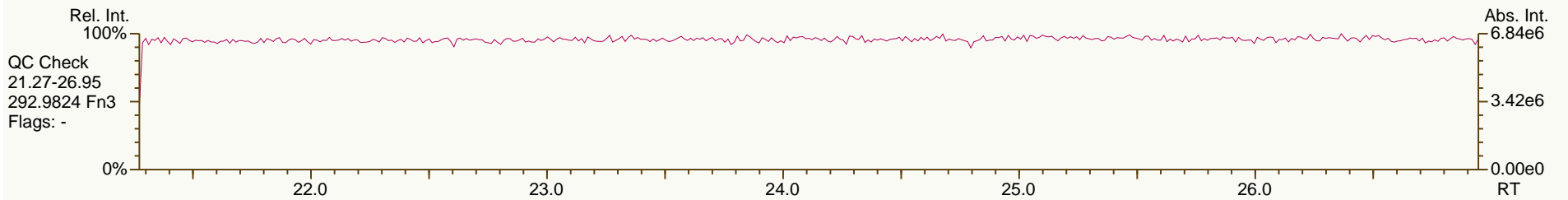
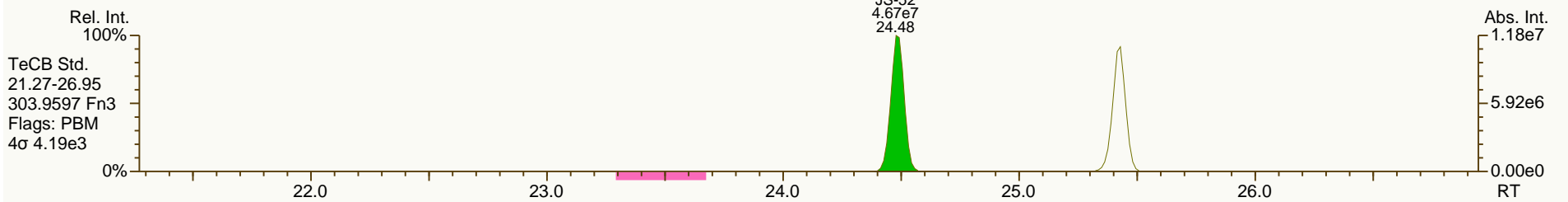
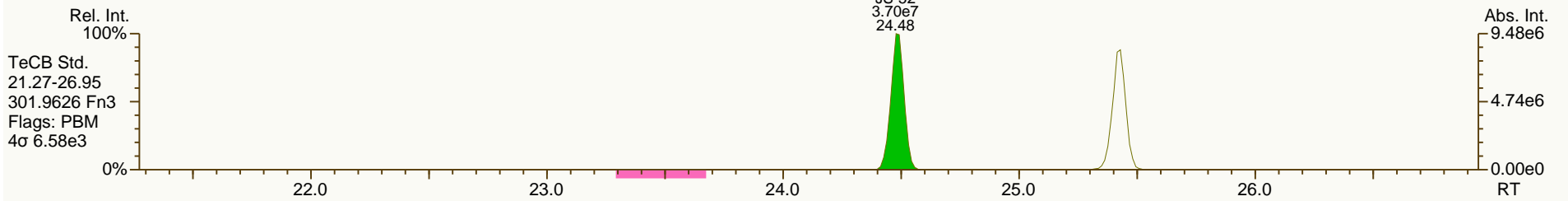
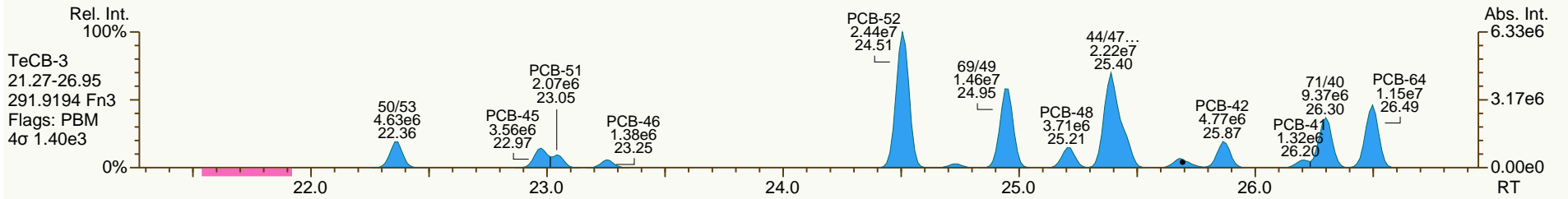
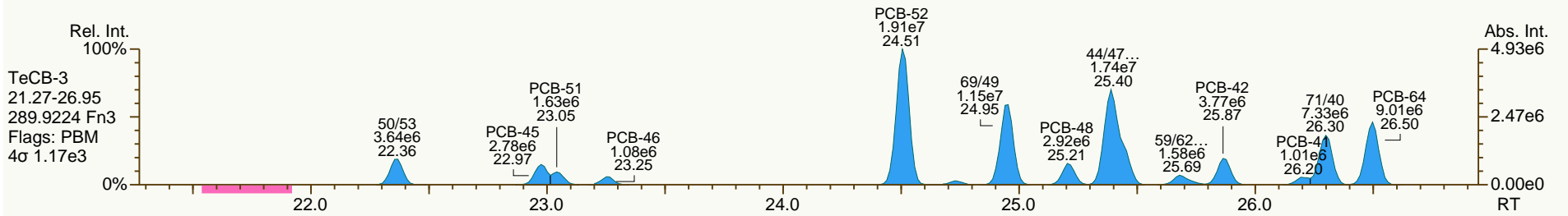
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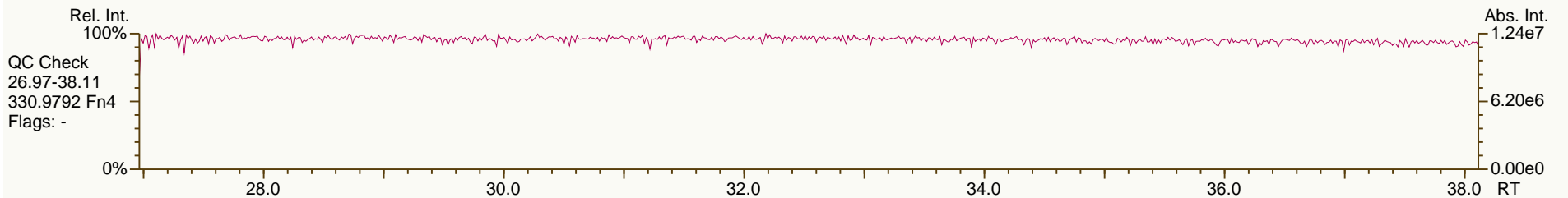
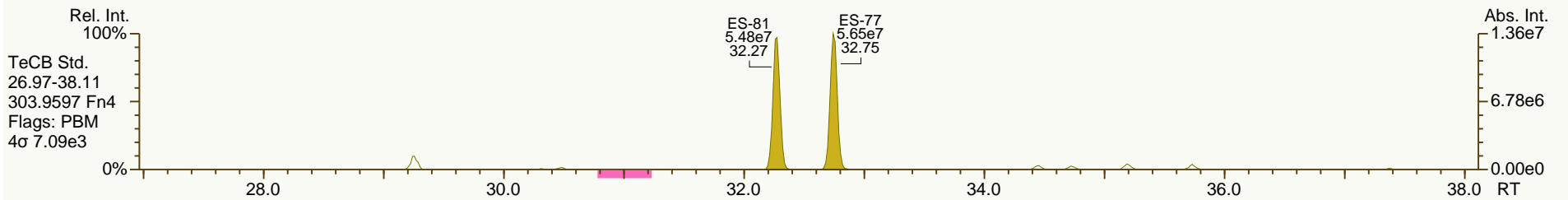
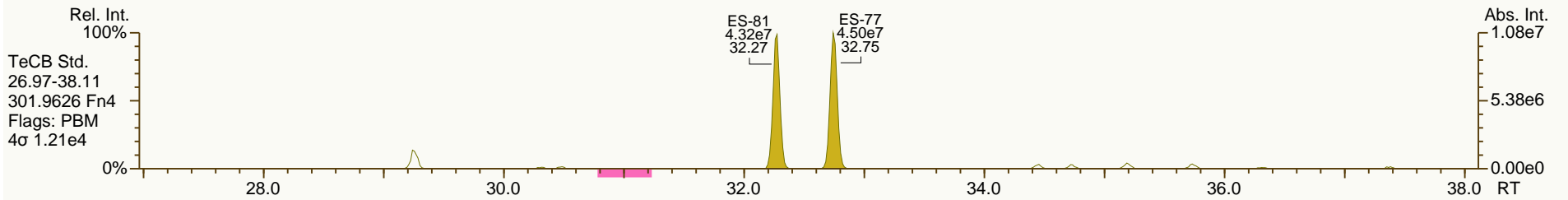
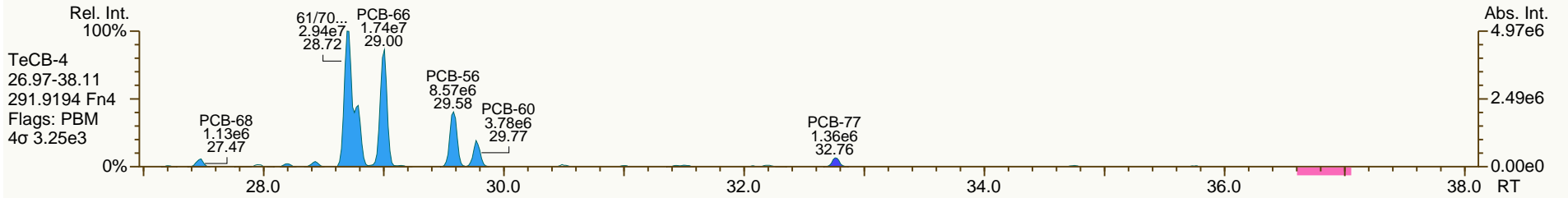
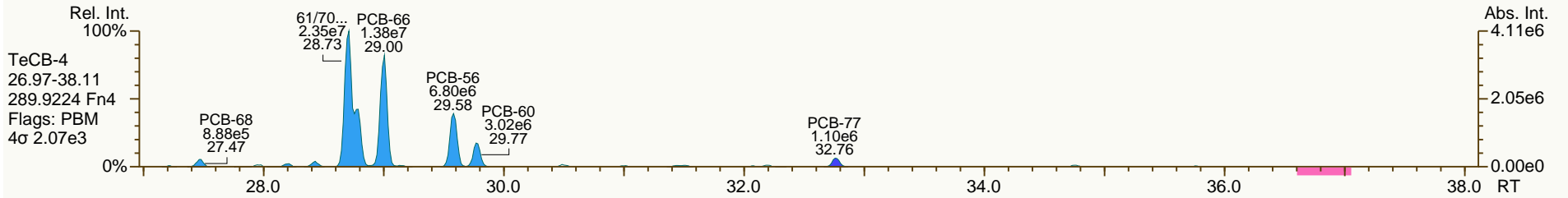
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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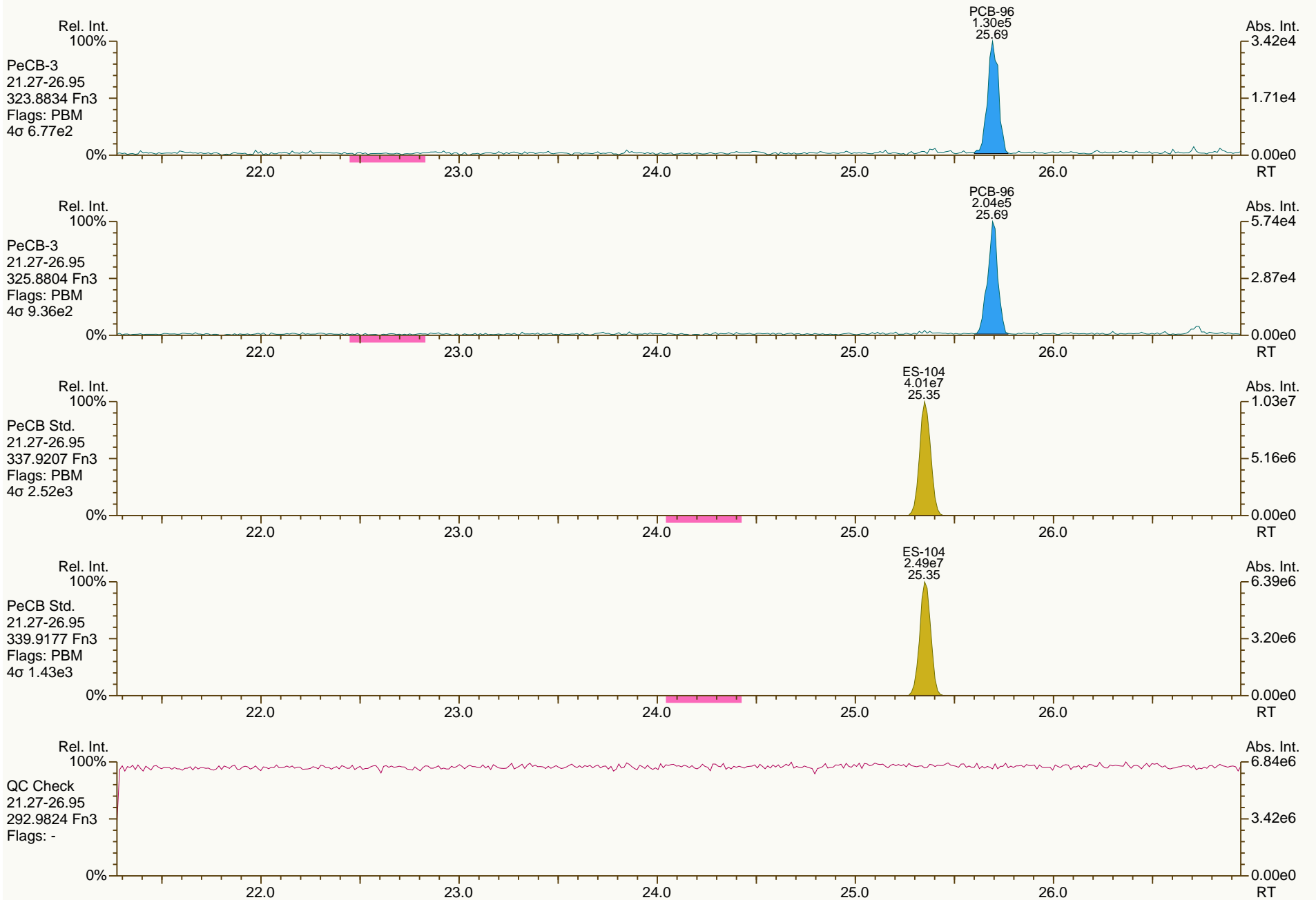
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SGS ID: A6521\_11903\_PCB\_001-RJ  
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Sample ID: PB083-1SWMID-140318-N  
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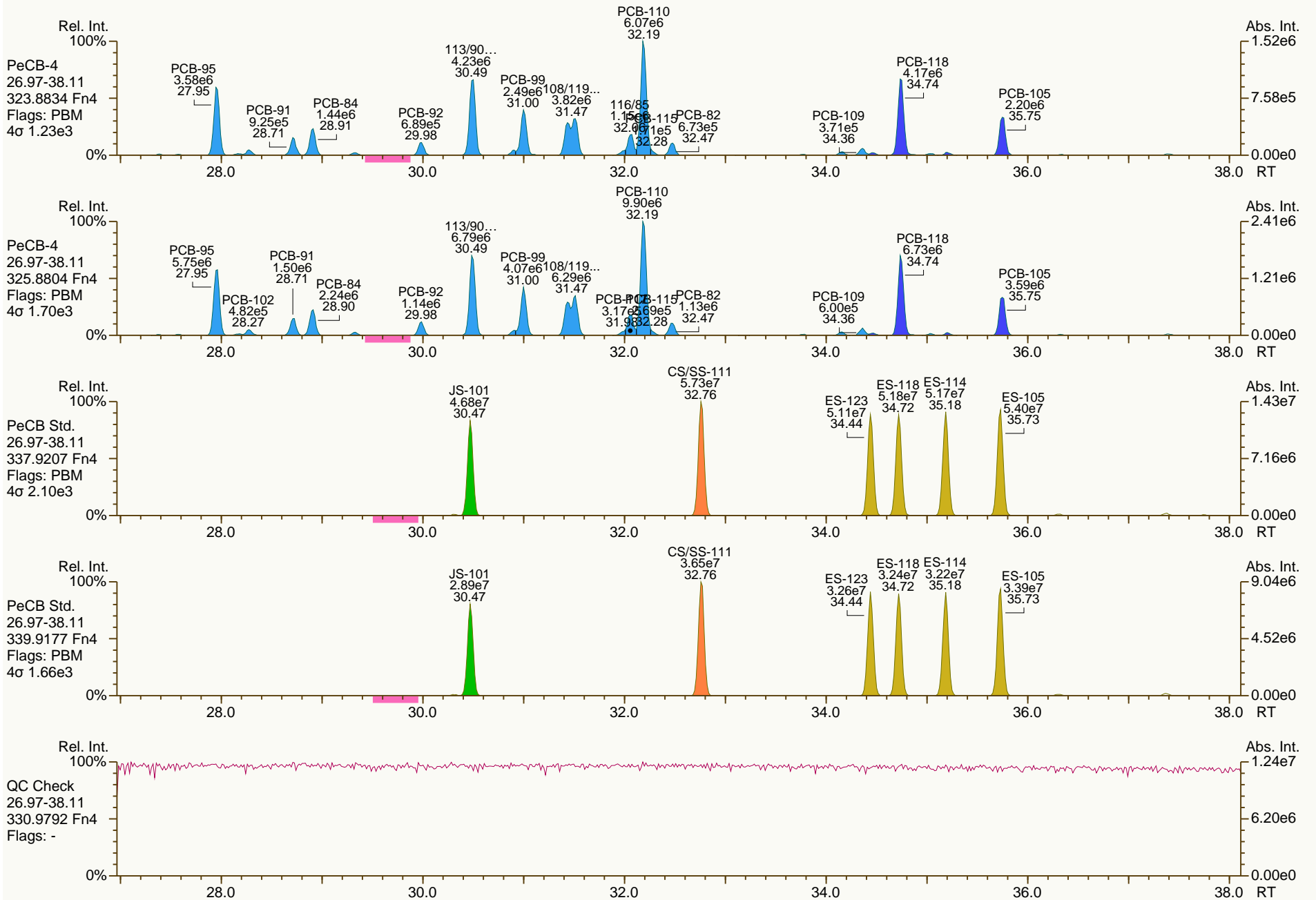
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Sample ID: PB083-1SWMID-140318-N  
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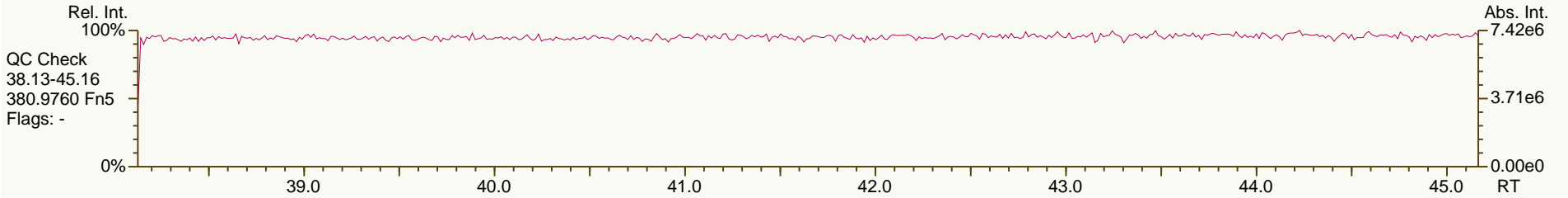
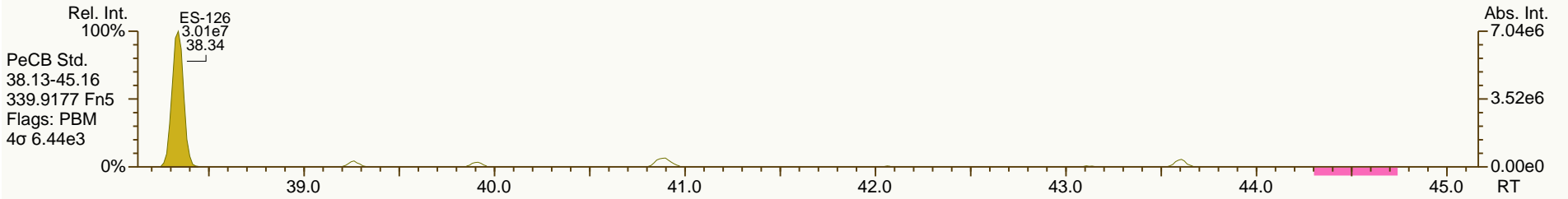
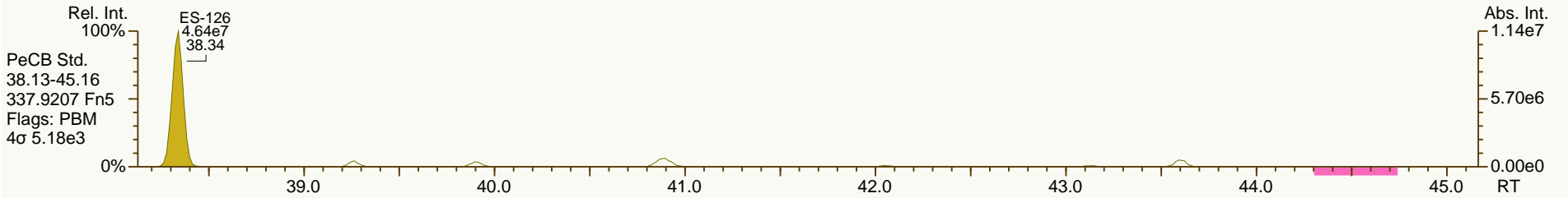
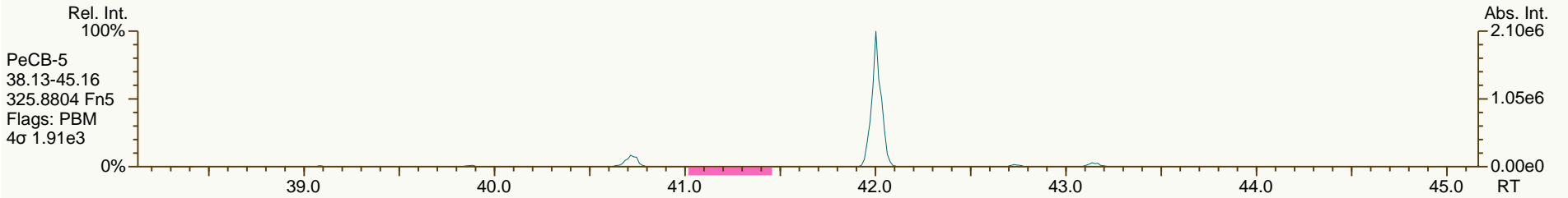
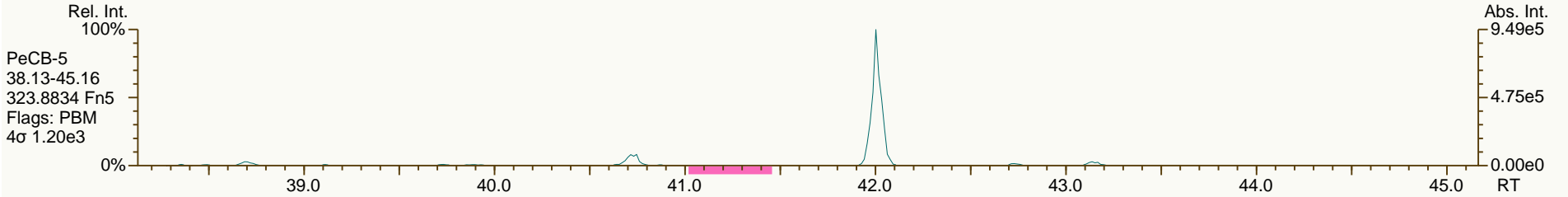
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SGS ID: A6521\_11903\_PCB\_001-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 79

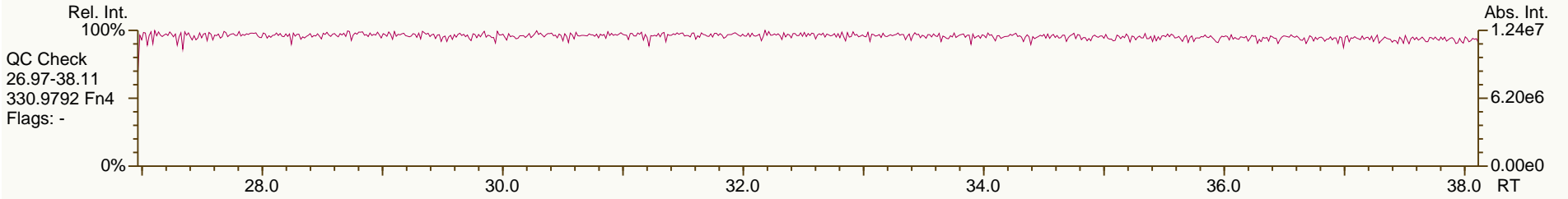
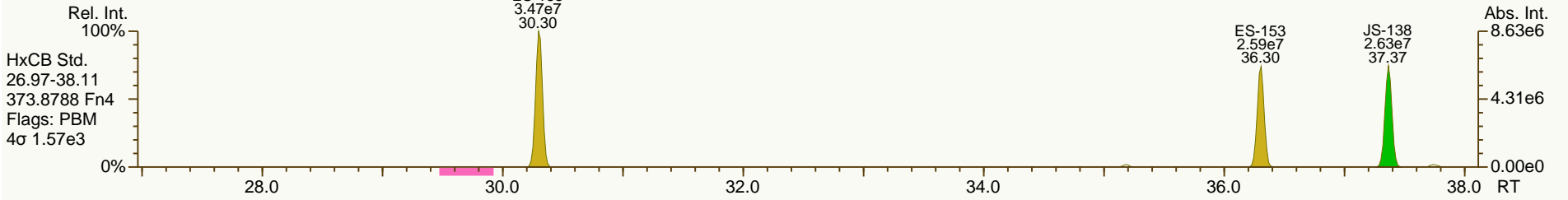
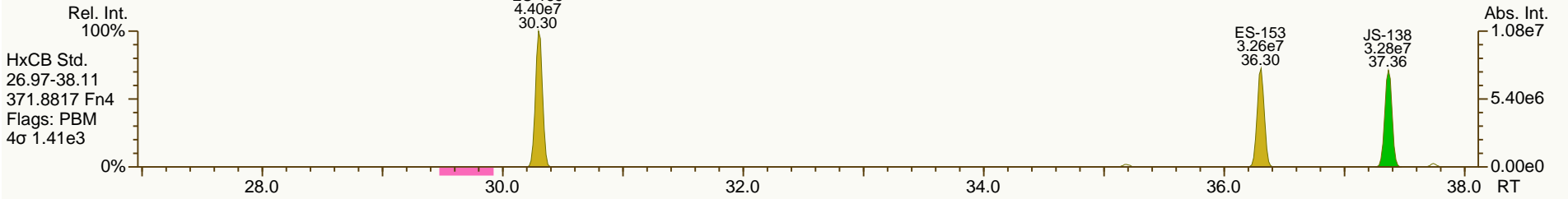
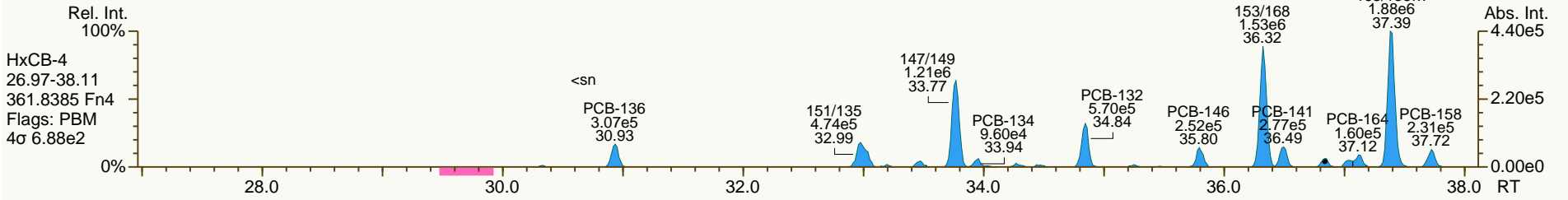
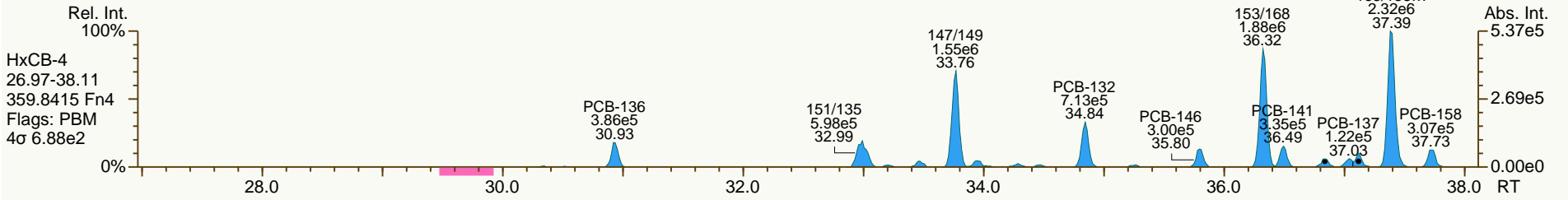
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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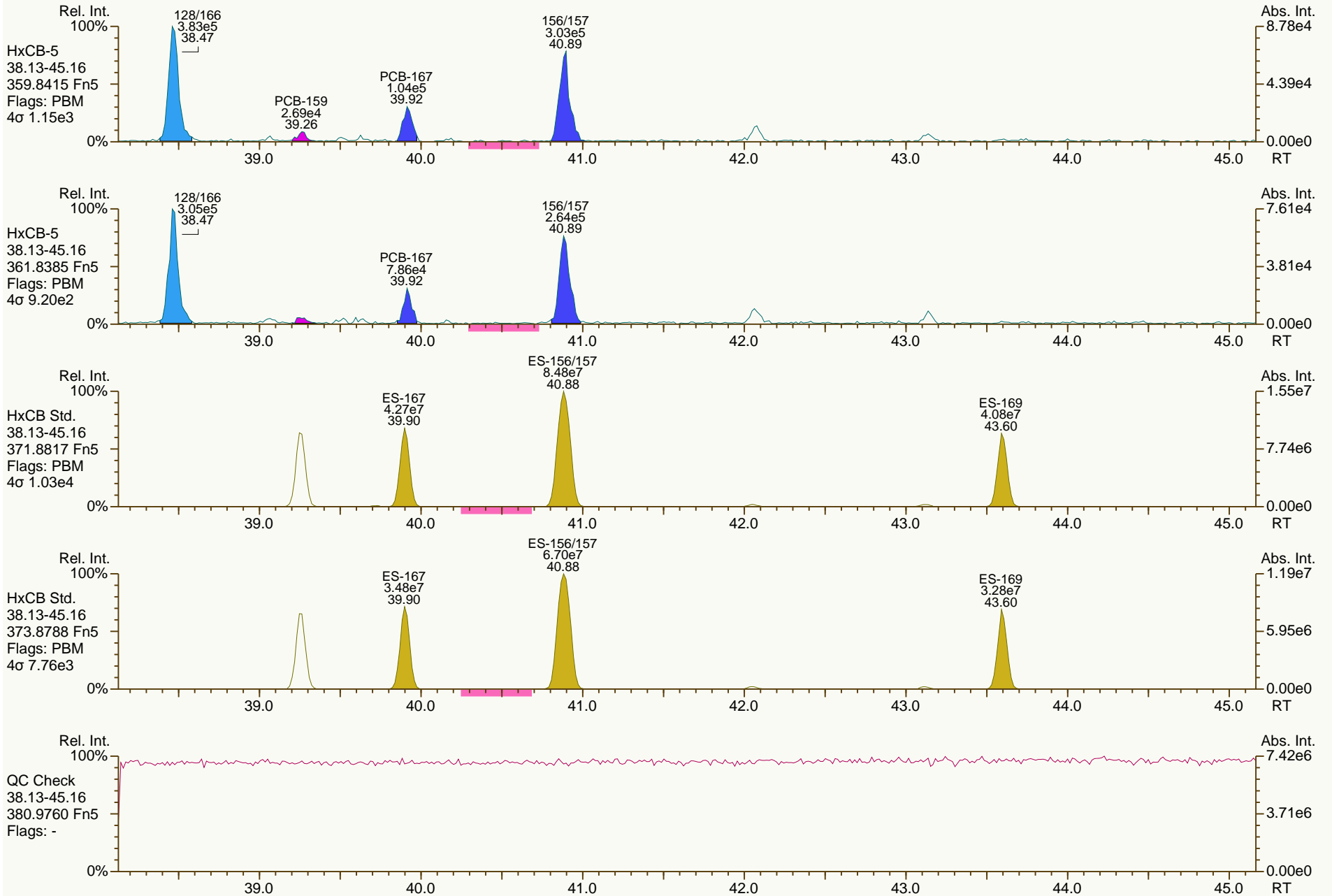
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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Acq: 28-Mar-2014 21:35:52  
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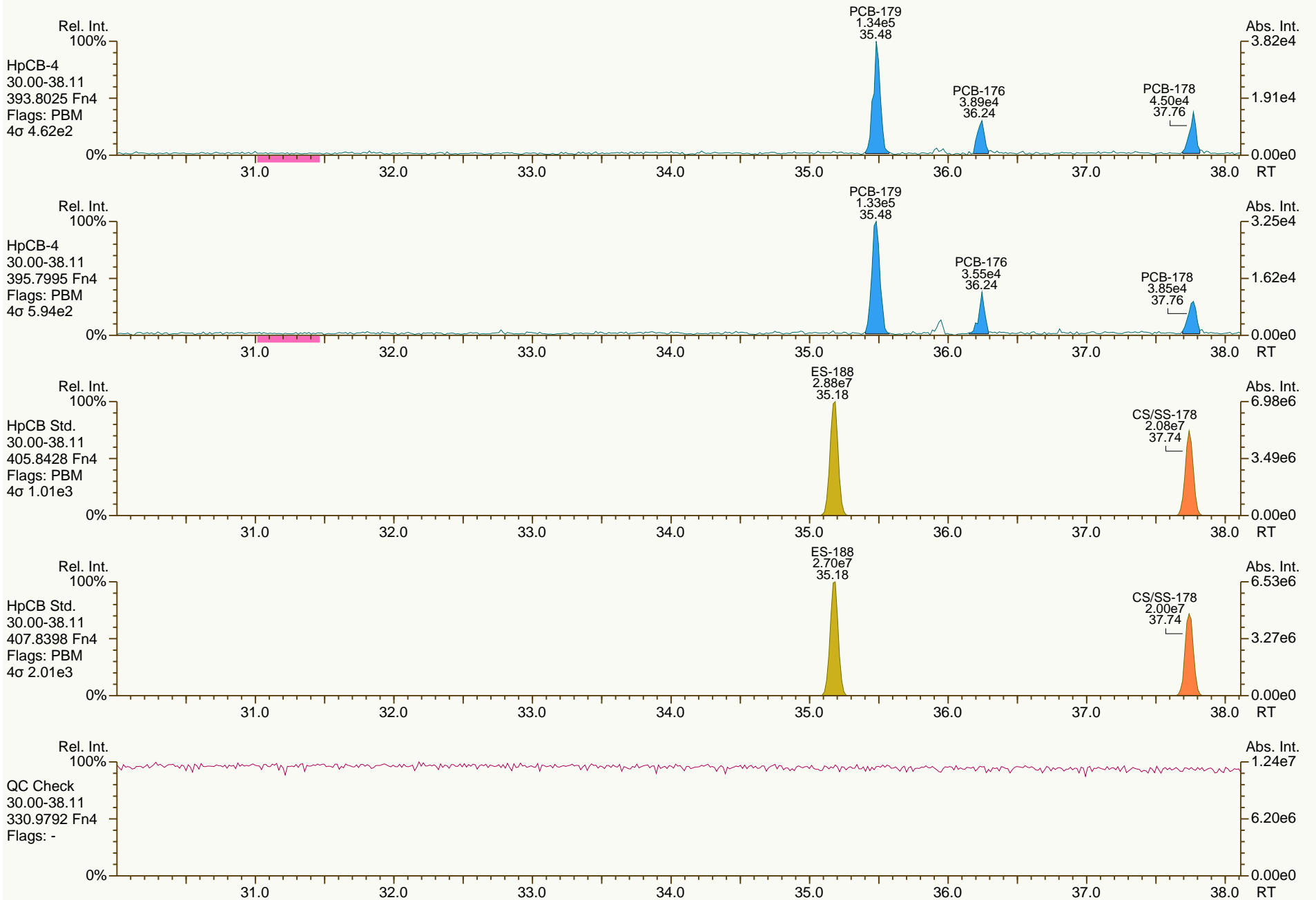




SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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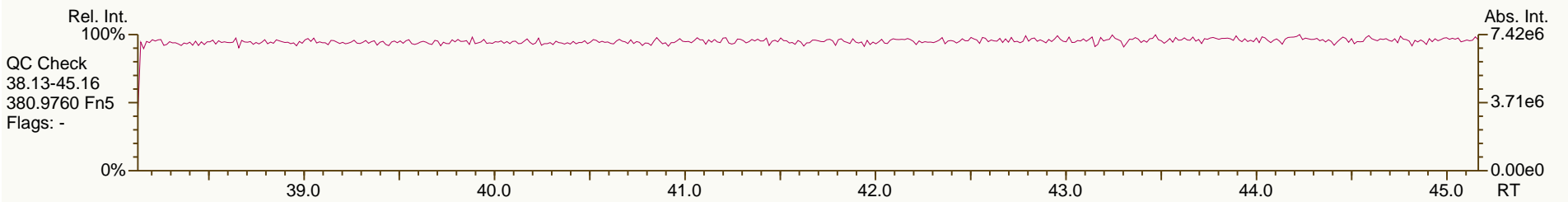
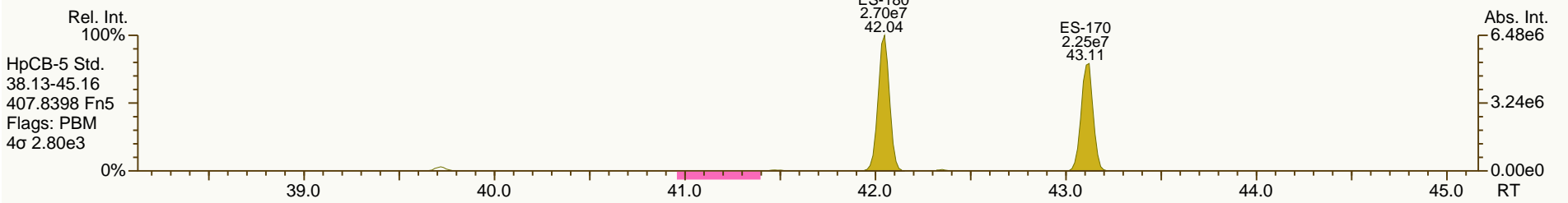
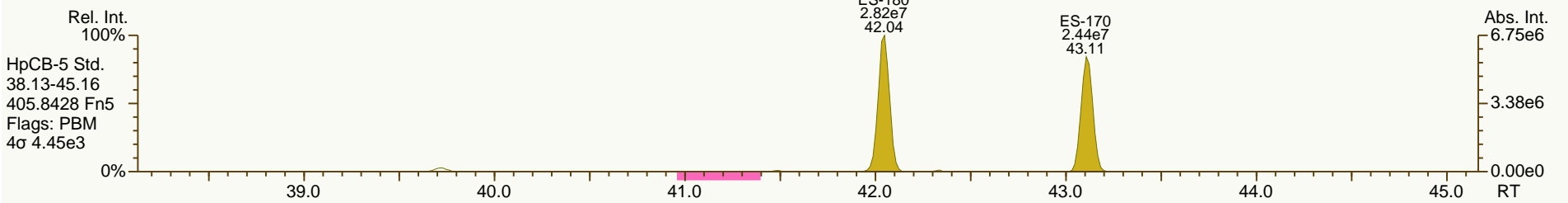
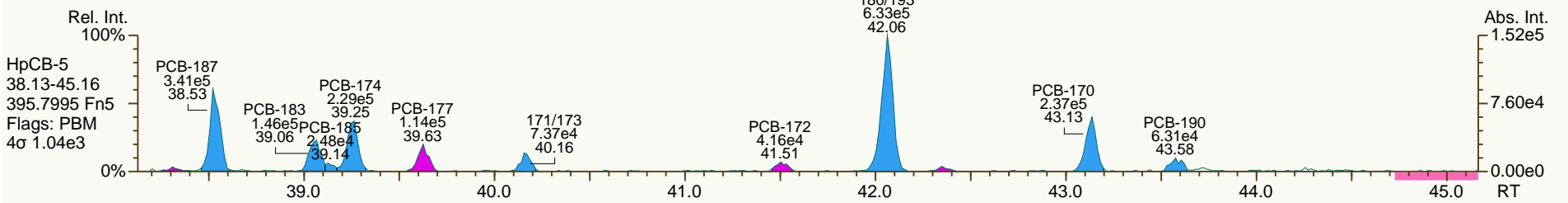
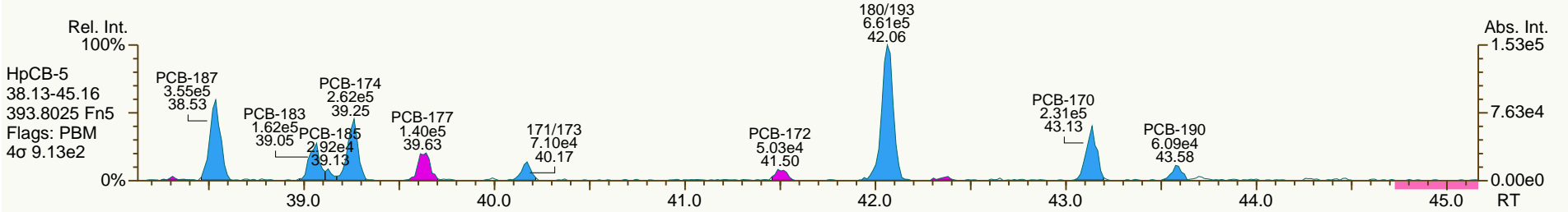
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SGS ID: A6521\_11903\_PCB\_001-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 79

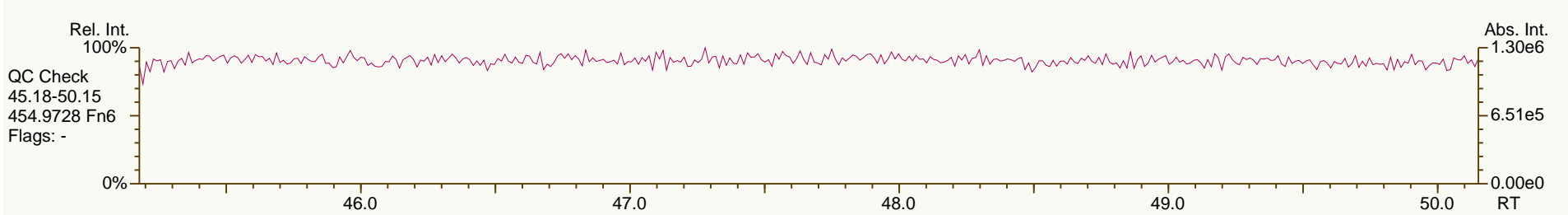
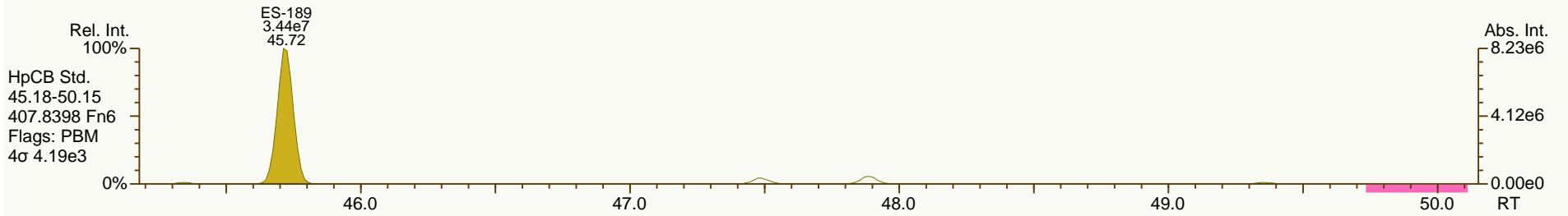
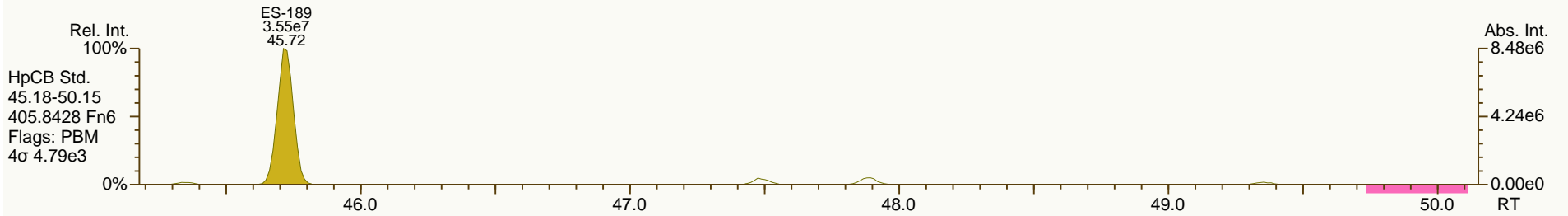
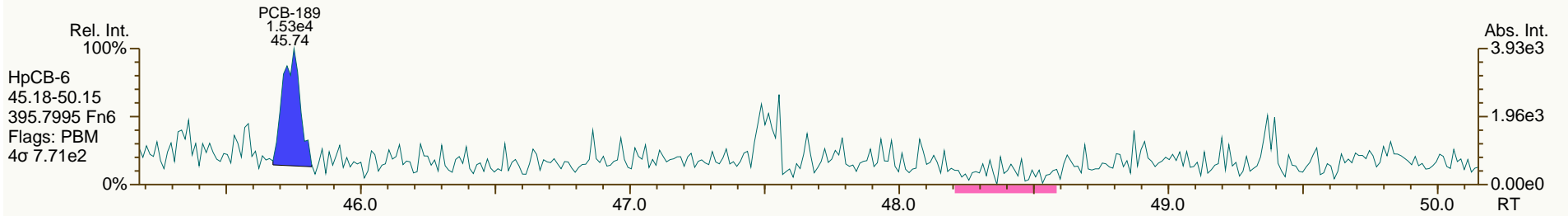
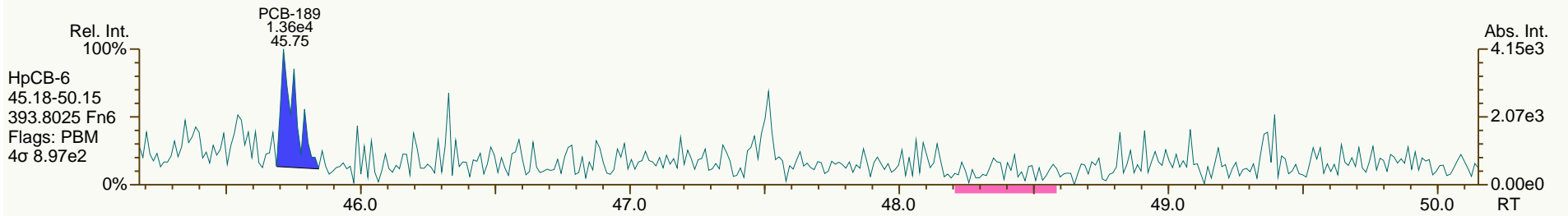
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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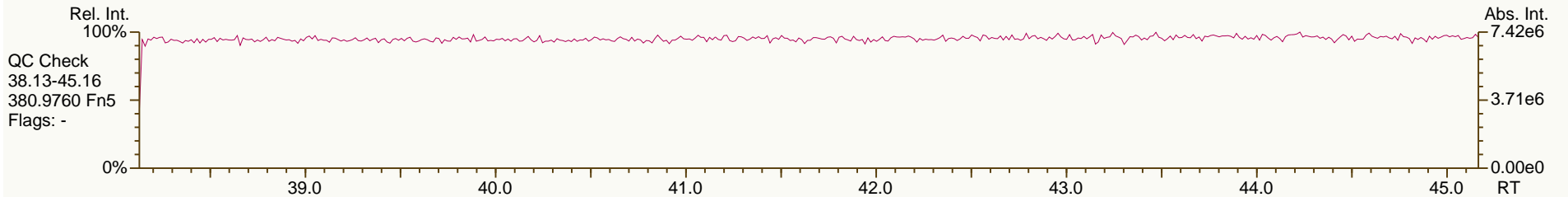
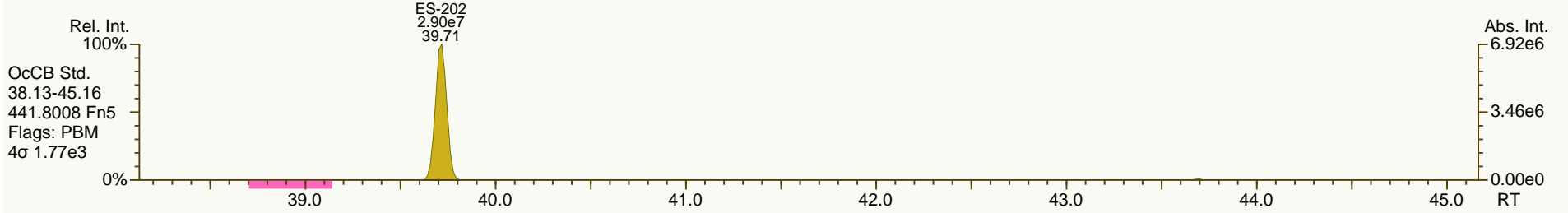
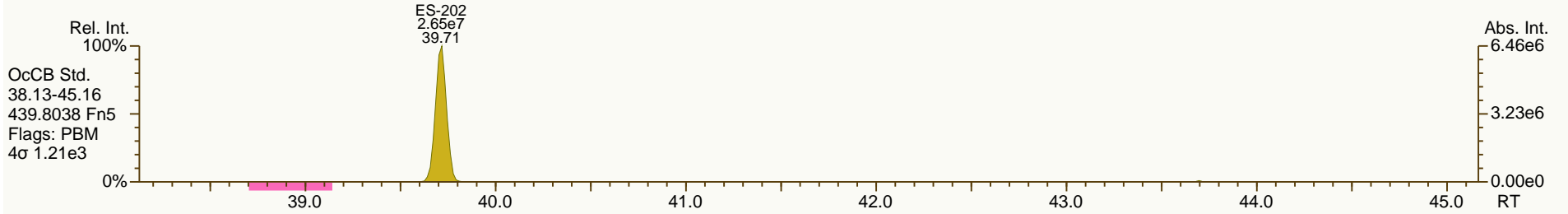
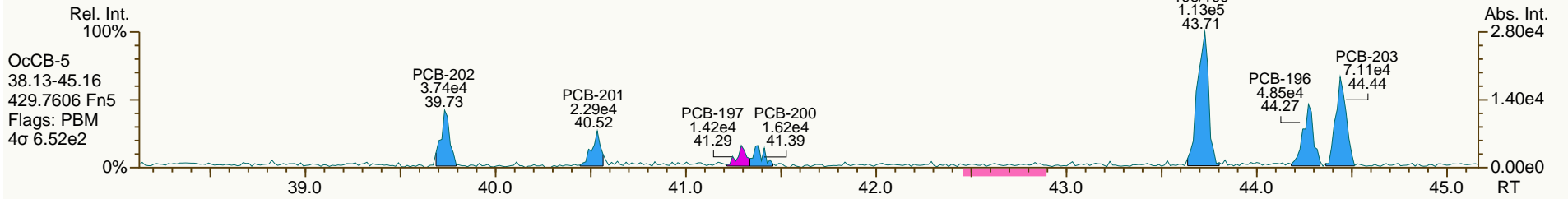
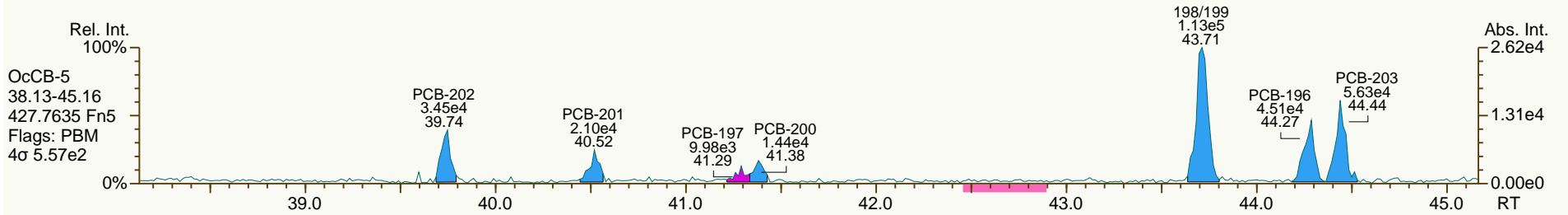
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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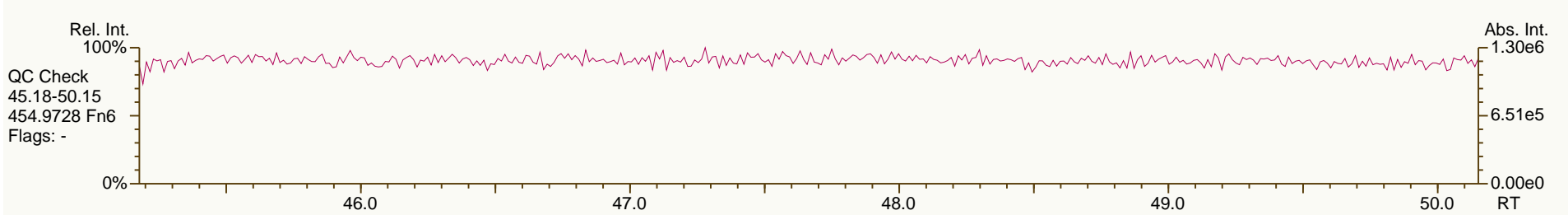
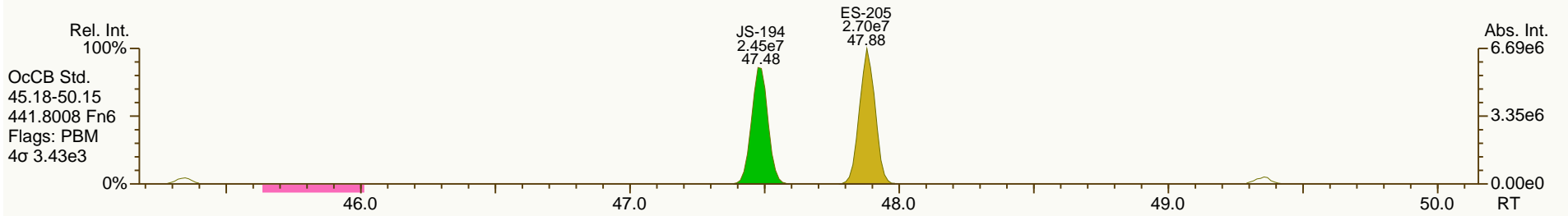
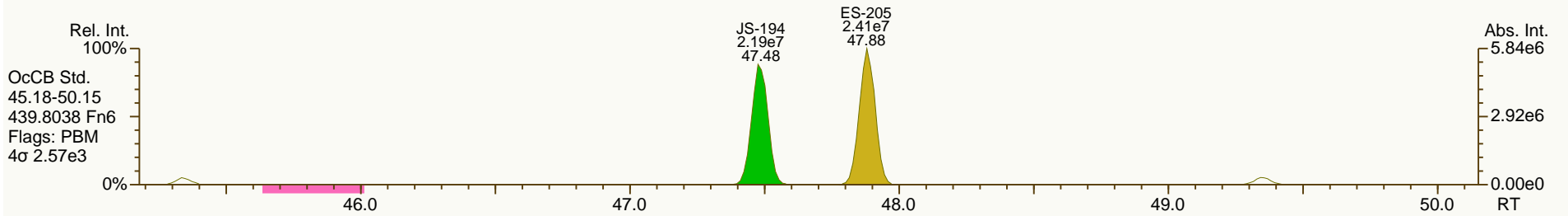
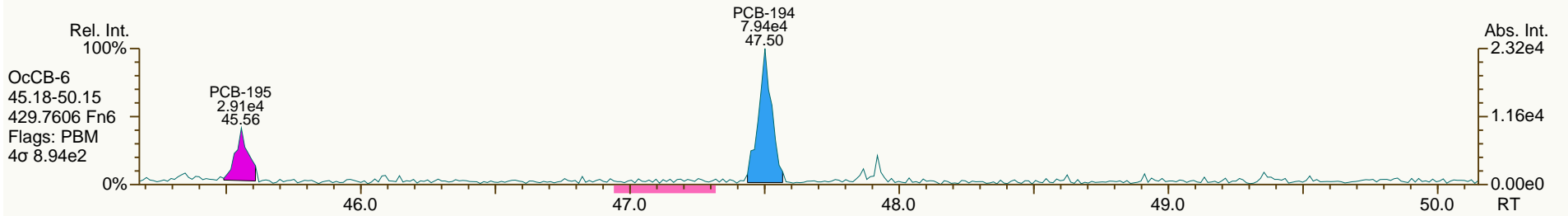
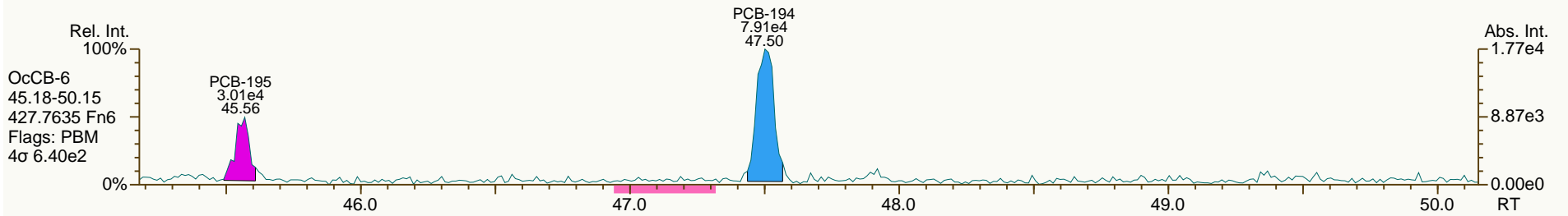
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
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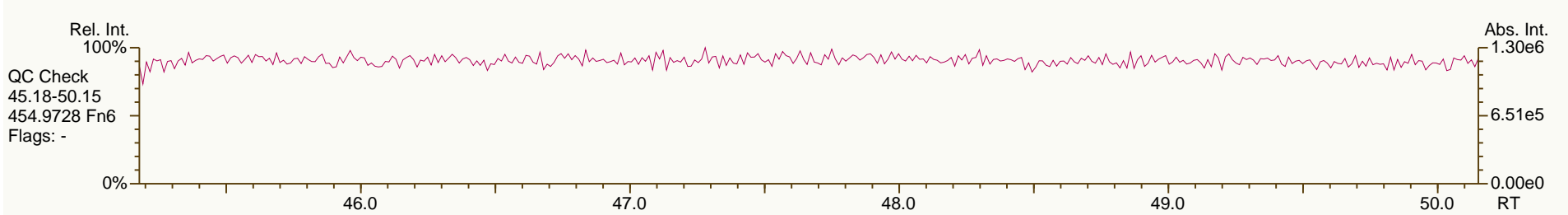
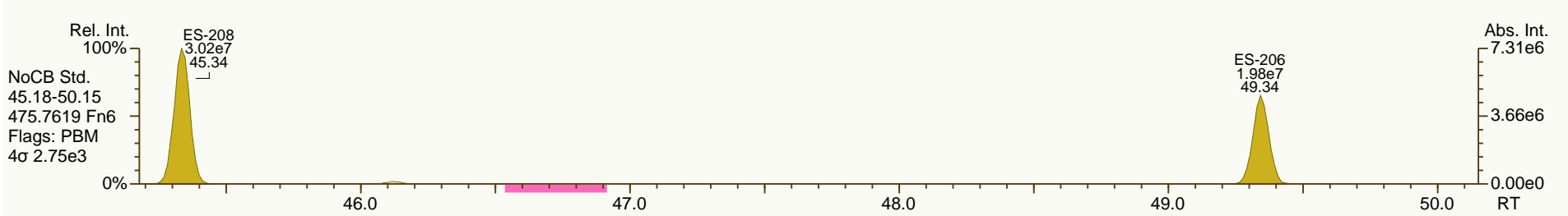
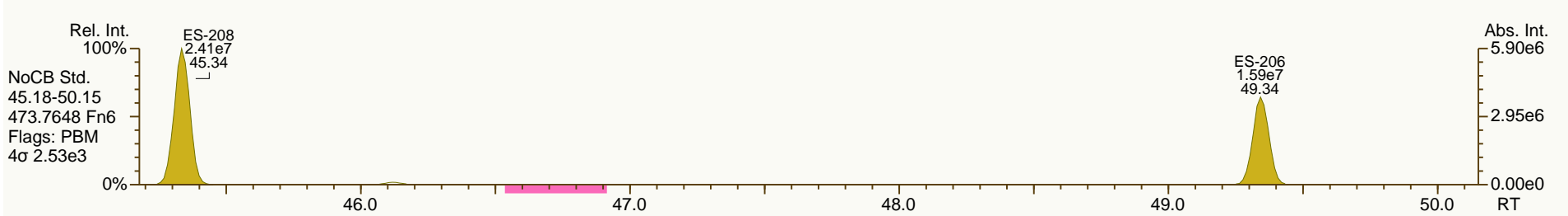
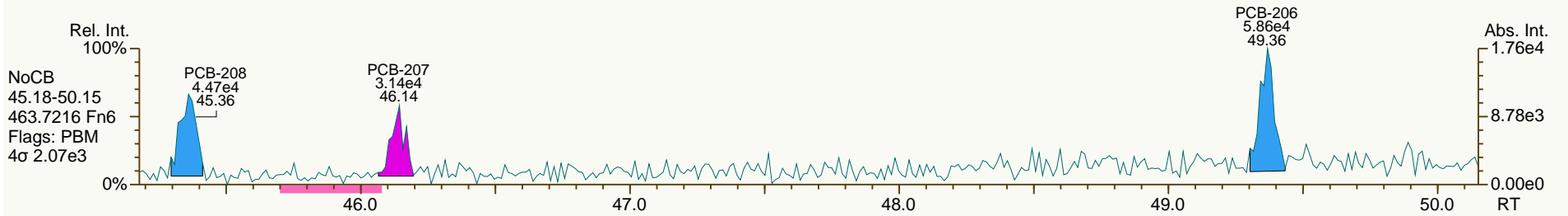
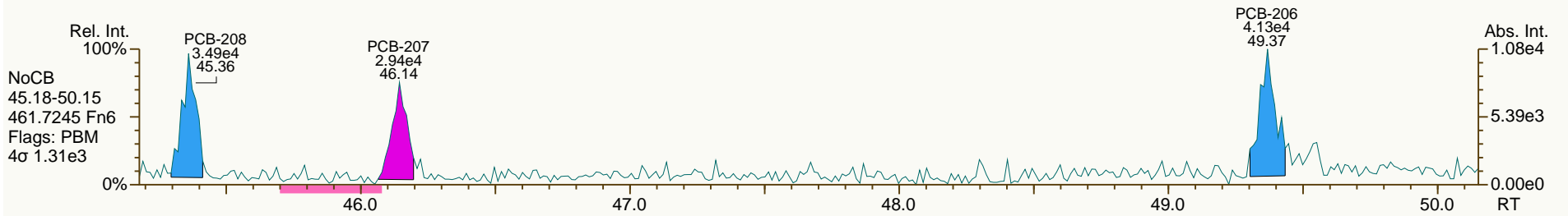
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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 79

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SGS ID: A6521\_11903\_PCB\_001-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 79

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Lab ID: A6521\_11903\_PCB\_002-RJ  
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Wt/Vol: 1.18 L  
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ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB  
 Checkcode: 203-283-HKK  
 Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0006	0	3.52E+06	0.81	1.15	37.7	6.52E+03	0.729
PCB-81 344'5'-TeCB	32.29	J EMPC	1.0005	1.0006	+0.2	1.48E+05	0.66	1.12	1.68	6.52E+03	0.782
PCB-105 233'44'-PeCB	35.75		1.0006	1.0006	0	8.53E+06	0.62	1.11	108	3.75E+03	0.49
PCB-114 2344'5'-PeCB	35.21	J	1.0007	1.0006	-0.2	5.42E+05	0.59	1.20	6.49	3.75E+03	0.469
PCB-118 23'44'5'-PeCB	34.75		1.0006	1.0006	0	1.58E+07	0.61	1.19	191	3.75E+03	0.476
PCB-123 23'44'5'-PeCB	34.47	J	1.0006	1.0006	0	4.66E+05	0.60	1.21	5.63	3.75E+03	0.47
PCB-126 33'44'5'-PeCB	38.36	J	1.0005	1.0005	0	7.46E+04	0.56	1.11	1.08	3.92E+03	0.561
PCB-156/157 ...-HxCB	40.90	J C	1.0005	1.0002	-0.7	7.93E+05	1.21	1.10	11.5	1.71E+03	0.347
PCB-167 23'44'55'-HxCB	39.93	J	1.0006	1.0005	-0.2	2.63E+05	1.23	1.16	3.5	1.71E+03	0.245
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.71E+03	0.259
PCB-189 233'44'55'-HpCB	45.74	J	1.0004	1.0004	0	4.53E+04	0.99	1.07	0.73	1.88E+03	0.313
PCB-209 DeCB	50.80		1.0004	1.0004	0	1.78E+06	1.15	1.11	45.2	1.18E+03	0.353
ES PCB-1	11.87		0.7245	0.7246	+0.1	1.73E+08	3.23	1.19	72.7 %	15%	150%
ES PCB-3	14.15		0.8640	0.8640	0	1.71E+08	3.26	1.09	78.9 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	1.04E+08	1.58	0.52	100 %	25%	150%
ES PCB-15	20.10		1.2271	1.2276	+0.6	2.13E+08	1.56	1.04	103 %	25%	150%
ES PCB-19	17.48		1.0673	1.0673	0	1.05E+08	1.06	0.51	104 %	25%	150%
ES PCB-37	26.43		1.0787	1.0790	+0.5	1.57E+08	1.08	1.66	88.9 %	25%	150%
ES PCB-54	20.39		0.8328	0.8325	-0.4	1.06E+08	0.79	0.86	116 %	25%	150%
ES PCB-77	32.75		1.3364	1.3373	+1.8	1.38E+08	0.80	1.38	94.1 %	25%	150%
ES PCB-81	32.27		1.3170	1.3179	+1.7	1.34E+08	0.79	1.37	92.3 %	25%	150%
ES PCB-104	25.36		0.8325	0.8321	-0.6	9.60E+07	1.57	0.80	124 %	25%	150%
ES PCB-105	35.73		1.1720	1.1725	+1.1	1.21E+08	1.58	1.20	105 %	25%	150%
ES PCB-114	35.19		1.1543	1.1547	+0.8	1.18E+08	1.60	1.22	101 %	25%	150%
ES PCB-118	34.73		1.1391	1.1395	+0.8	1.18E+08	1.57	1.16	106 %	25%	150%
ES PCB-123	34.44		1.1299	1.1303	+0.8	1.16E+08	1.55	1.19	102 %	25%	150%
ES PCB-126	38.34		1.2575	1.2582	+1.6	1.06E+08	1.55	1.03	107 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	8.43E+07	1.28	1.11	97.2 %	25%	150%
ES PCB-155	30.31		0.8114	0.8110	-0.7	1.17E+08	1.26	1.59	96.2 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0942	+0.7	2.13E+08	1.26	1.60	86.7 %	25%	150%
ES PCB-167	39.91		1.0677	1.0678	+0.2	1.10E+08	1.25	1.67	85.8 %	25%	150%
ES PCB-169	43.60		1.1664	1.1668	+1.0	1.02E+08	1.26	1.56	85.6 %	25%	150%
ES PCB-170	43.12		0.9081	0.9079	-0.5	6.53E+07	1.06	0.95	101 %	25%	150%
ES PCB-180	42.05		0.8856	0.8855	-0.3	8.02E+07	1.07	1.14	106 %	25%	150%
ES PCB-188	35.18		0.7413	0.7409	-0.8	8.45E+07	1.07	0.94	117 %	25%	150%
ES PCB-189	45.73		0.9629	0.9629	0	9.84E+07	1.02	1.58	100 %	25%	150%
ES PCB-202	39.72		0.8366	0.8364	-0.5	8.33E+07	0.92	0.97	112 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	7.04E+07	0.88	1.24	91.4 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	4.91E+07	0.81	0.83	95.5 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	7.81E+07	0.80	1.17	107 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	6.01E+07	1.18	1.11	87.4 %	25%	150%



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9339	0	1.90E+08	1.08	1.11	109 %	30%	135%
SS PCB-111	32.77		1.0750	1.0752	+0.4	1.30E+08	1.56	1.03	108 %	30%	135%
SS PCB-178	37.75		1.0100	1.0100	0	5.68E+07	1.06	0.62	109 %	30%	135%
CS PCB-28	22.87		0.9339	0.9339	0	1.90E+08	1.08	1.85	96.9 %	30%	135%
CS PCB-111	32.77		1.0750	1.0752	+0.4	1.30E+08	1.56	1.22	110 %	30%	135%
CS PCB-178	37.75		1.0100	1.0100	0	5.68E+07	1.06	0.58	127 %	30%	135%
JS PCB-9	16.38					1.99E+08	1.55				
JS PCB-52	24.49					1.06E+08	0.79				
JS PCB-101	30.47					9.63E+07	1.60				
JS PCB-138	37.37					7.68E+07	1.25				
JS PCB-194	47.49					6.20E+07	0.89				
						<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>		
						Mono-CBs	27.8	27.8	0.392		
						Di-CBs	395	395	0.546		
						Tri-CBs	2,650	2,660	0.671		
						Tetra-CBs	5,230	5,230	0.51		
						Penta-CBs	1,910	1,910	0.446		
						Hexa-CBs	431	433	0.253		
						Hepta-CBs	116	116	0.284		
						Octa-CBs	24.9	27.5	0.307		
						Nona-CBs	9.25	9.25	0.897		
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	2.06E+06	3.13	0.95	21.4	5.66E+03	0.364
PCB-2 3-MoCB	13.98	J	0.9880	0.9883	+0.3	1.74E+05	2.68	1.17	1.49	5.66E+03	0.364
PCB-3 4-MoCB	14.16	J B	1.0010	1.0009	-0.1	5.02E+05	3.23	1.01	4.96	5.66E+03	0.42
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	1.09E+07	1.57	1.23	145	6.67E+03	0.663
PCB-10 26'-DiCB	14.60	J	1.0135	1.0136	+0.1	5.42E+05	1.66	1.92	4.61	6.67E+03	0.425
PCB-9 25'-DiCB	16.39	J	1.0010	1.0010	0	8.31E+05	1.53	0.97	6.87	5.97E+03	0.453
PCB-7 24'-DiCB	16.56	J	1.0111	1.0110	-0.1	4.33E+05	1.53	1.10	3.16	5.97E+03	0.399
PCB-6 23'-DiCB	16.79		1.0249	1.0249	0	5.89E+06	1.66	1.03	45.8	5.97E+03	0.426
PCB-5 23'-DiCB	17.09	J	1.0433	1.0435	+0.2	2.36E+05	1.61	1.03	1.83	5.97E+03	0.424
PCB-8 24'-DiCB	17.21		1.0506	1.0507	+0.1	1.31E+07	1.61	1.04	101	5.97E+03	0.422
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	5.97E+03	0.356
PCB-11 33'-DiCB	19.54	B	0.9721	0.9721	0	2.81E+06	1.59	1.06	21.2	5.97E+03	0.413
PCB-13/12 34'/34'-DiCB	19.81	J C	0.9866	0.9855	-1.3	1.82E+06	1.68	1.06	13.8	5.97E+03	0.415
PCB-15 44'-DiCB	20.12		1.0008	1.0007	-0.1	6.69E+06	1.65	1.02	52.4	5.97E+03	0.429
PCB-19 22'6-TrCB	17.50		1.0010	1.0010	0	5.63E+06	1.03	1.15	79.7	4.66E+03	0.563
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	5.02E+07	1.05	1.56	522	4.66E+03	0.414
PCB-17 22'4-TrCB	19.66		1.1243	1.1245	+0.2	1.50E+07	1.06	1.33	184	4.66E+03	0.485
PCB-27 23'6-TrCB	19.85		1.1353	1.1355	+0.2	3.53E+06	1.08	1.82	31.5	4.66E+03	0.355
PCB-24 236-TrCB	19.97	J EMPC	1.1430	1.1426	-0.5	2.99E+05	1.21	1.74	2.8	4.66E+03	0.372
PCB-16 22'3-TrCB	20.08		1.1484	1.1486	+0.2	1.10E+07	1.03	0.99	181	4.66E+03	0.653

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.56		1.1758	1.1761	+0.4	2.02E+07	1.04	1.93	170	4.66E+03	0.334
PCB-34 23'5'-TrCB	21.71	J	0.8218	0.8215	-0.4	2.85E+05	1.04	1.25	2.48	7.70E+03	0.672
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	7.70E+03	0.664
PCB-26/29 23'5'/245-TrCB	22.12	C	0.8383	0.8370	-1.7	1.08E+07	1.00	1.28	91.5	7.70E+03	0.655
PCB-25 23'4-TrCB	22.34		0.8456	0.8454	-0.3	7.39E+06	1.02	1.26	63.6	7.70E+03	0.665
PCB-31 24'5-TrCB	22.62		0.8562	0.8559	-0.4	5.97E+07	1.01	1.34	483	7.70E+03	0.625
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8663	-1.0	5.56E+07	1.02	1.26	482	7.70E+03	0.669
PCB-21/33 234/23'4'-TrCB	23.11	C	0.8738	0.8743	+0.7	1.62E+07	0.99	1.28	137	7.70E+03	0.654
PCB-22 234'-TrCB	23.46		0.8880	0.8877	-0.4	1.49E+07	1.02	1.20	135	7.70E+03	0.7
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	7.70E+03	0.637
PCB-39 34'5-TrCB	25.21	J	0.9522	0.9539	+2.6	5.65E+05	1.06	1.36	4.53	7.70E+03	0.619
PCB-38 345-TrCB	25.69	J EMPC	0.9723	0.9723	0	8.93E+04	1.51	1.22	0.797	7.70E+03	0.689
PCB-35 33'4-TrCB	26.08	J	0.9871	0.9869	-0.3	7.89E+05	1.15	1.19	7.21	7.70E+03	0.706
PCB-37 344'-TrCB	26.45		1.0007	1.0009	+0.3	7.70E+06	1.03	1.08	77.6	7.70E+03	0.779
PCB-54 22'66'-TeCB	20.41	J	1.0010	1.0009	-0.1	2.69E+05	0.83	1.35	3.2	2.14E+03	0.233
PCB-50/53 22'46/22'56'-TeCB	22.37	C	0.9145	0.9133	-1.6	1.15E+07	0.79	0.92	159	2.74E+03	0.399
PCB-45 22'36-TeCB	22.98		0.9383	0.9384	+0.1	9.51E+06	0.79	0.84	144	2.74E+03	0.438
PCB-51 22'46'-TeCB	23.06		0.9413	0.9414	+0.1	4.36E+06	0.78	0.90	62	2.74E+03	0.411
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	3.61E+06	0.79	0.74	62.5	2.74E+03	0.5
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	6.17E+07	0.78	0.90	875	2.74E+03	0.409
PCB-73 23'5'6-TeCB	24.64	J	1.0062	1.0063	+0.1	1.60E+05	0.80	1.19	1.71	2.74E+03	0.308
PCB-43 22'35-TeCB	24.74		1.0101	1.0102	+0.1	1.67E+06	0.77	0.75	28.2	2.74E+03	0.487
PCB-69/49 23'46/22'45'-TeCB	24.95	C	1.0181	1.0189	+1.2	3.66E+07	0.80	1.10	425	2.74E+03	0.336
PCB-48 22'45-TeCB	25.21		1.0295	1.0296	+0.2	9.33E+06	0.80	0.90	131	2.74E+03	0.407
PCB-44/47/65 ...-TeCB	25.41	C	1.0384	1.0374	-1.5	5.58E+07	0.79	0.96	737	2.74E+03	0.381
PCB-59/62/75 ...-TeCB	25.70	C	1.0496	1.0493	-0.5	5.14E+06	0.79	1.25	52.3	2.74E+03	0.294
PCB-42 22'34'-TeCB	25.87		1.0563	1.0564	+0.2	1.18E+07	0.78	0.82	184	2.74E+03	0.449
PCB-41 22'34-TeCB	26.20		1.0698	1.0699	+0.2	3.09E+06	0.76	0.76	51.6	2.74E+03	0.482
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	2.37E+07	0.79	0.92	330	2.74E+03	0.402
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	2.88E+07	0.79	1.33	277	2.74E+03	0.277
PCB-72 23'55'-TeCB	27.21	J EMPC	0.8436	0.8432	-0.7	3.20E+05	0.90	1.26	3.23	6.52E+03	0.692
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	2.88E+06	0.80	1.35	27.1	6.52E+03	0.648
PCB-57 233'5-TeCB	27.84	J	0.8630	0.8627	-0.5	2.28E+05	0.83	1.22	2.38	6.52E+03	0.717
PCB-58 233'5'-TeCB	28.05	J	0.8693	0.8691	-0.3	1.12E+05	0.81	1.27	1.12	6.52E+03	0.686
PCB-67 23'45-TeCB	28.21		0.8741	0.8739	-0.3	1.18E+06	0.81	1.33	11.3	6.52E+03	0.659
PCB-63 234'5-TeCB	28.43		0.8811	0.8809	-0.3	1.88E+06	0.82	1.40	17.2	6.52E+03	0.625
PCB-61/70/74/76 ...-TeCB	28.73	C	0.8902	0.8902	0	7.58E+07	0.80	1.25	774	6.52E+03	0.701
PCB-66 23'44'-TeCB	29.00		0.8989	0.8986	-0.5	4.46E+07	0.80	1.18	482	6.52E+03	0.742
PCB-55 233'4-TeCB	29.15	J	0.9034	0.9031	-0.5	5.07E+05	0.84	1.18	5.47	6.52E+03	0.74
PCB-56 233'4'-TeCB	29.59		0.9169	0.9167	-0.4	2.17E+07	0.79	1.17	237	6.52E+03	0.75
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	9.85E+06	0.79	1.20	105	6.52E+03	0.728
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	6.52E+03	0.635
PCB-79 33'45'-TeCB	31.43	J	0.9737	0.9740	+0.6	3.31E+05	0.76	1.37	3.07	6.52E+03	0.637
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	6.52E+03	0.762
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.69E+03	0.208
PCB-96 22'366'-PeCB	25.70	J	1.0134	1.0134	0	5.00E+05	0.68	1.18	7.49	1.69E+03	0.252
PCB-103 22'45'6-PeCB	27.39	J	0.8989	0.8987	-0.3	1.82E+05	0.54	0.93	2.85	3.75E+03	0.611
PCB-94 22'356'-PeCB	27.58	J	0.9051	0.9050	-0.2	1.97E+05	0.57	0.79	3.65	3.75E+03	0.722

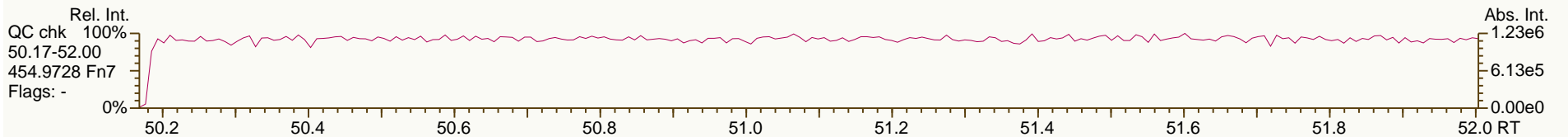
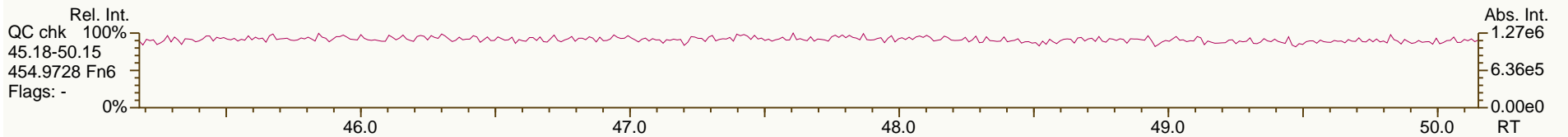
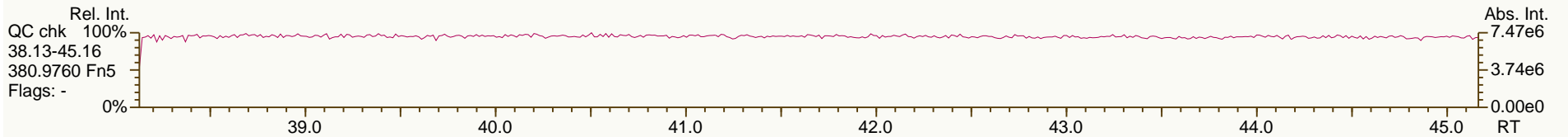
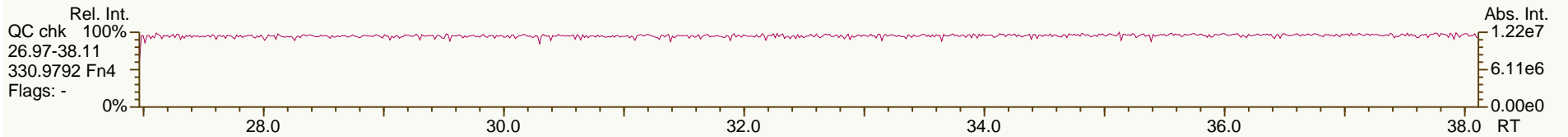
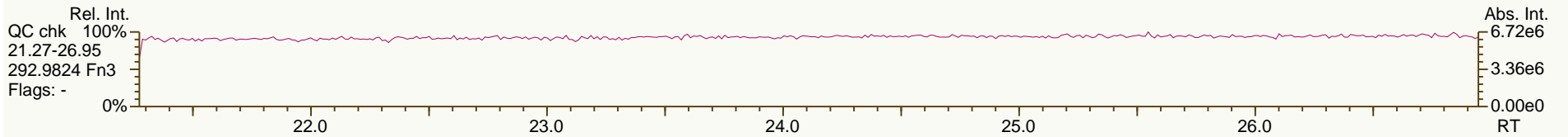
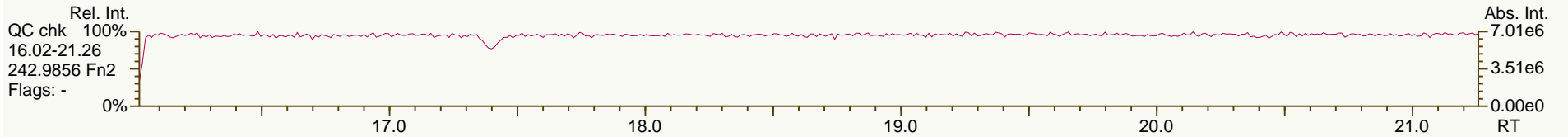
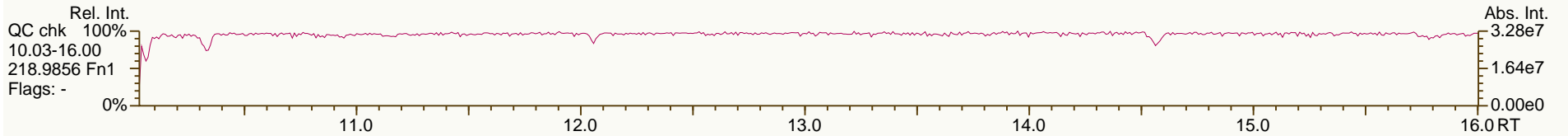
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9174	-0.3	1.34E+07	0.63	0.86	227	3.75E+03	0.661
PCB-100/93 22'44'6/22'356-PeCB	28.16	J C	0.9246	0.9242	-0.7	2.96E+05	0.64	0.86	5.05	3.75E+03	0.664
PCB-102 22'456'-PeCB	28.28		0.9282	0.9280	-0.3	1.07E+06	0.67	1.00	15.6	3.75E+03	0.569
PCB-98 22'34'6'-PeCB	28.35	J	0.9305	0.9304	-0.2	7.31E+04	0.60	0.74	1.45	3.75E+03	0.773
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	3.75E+03	0.733
PCB-91 22'34'6-PeCB	28.72		0.9424	0.9423	-0.2	3.52E+06	0.62	0.92	55.9	3.75E+03	0.619
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	5.37E+06	0.62	0.71	110	3.75E+03	0.799
PCB-89 22'346'-PeCB	29.33		0.9624	0.9624	0	5.41E+05	0.63	0.76	10.5	3.75E+03	0.751
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	3.75E+03	0.476
PCB-92 22'355'-PeCB	29.99		0.9841	0.9840	-0.2	2.59E+06	0.61	0.81	46.8	3.75E+03	0.702
PCB-113/90/101 ...-PeCB	30.50	C	0.9999	1.0007	+1.5	1.58E+07	0.64	0.96	241	3.75E+03	0.593
PCB-83 22'33'5-PeCB	30.91		1.0142	1.0141	-0.2	8.92E+05	0.64	0.70	18.8	3.75E+03	0.818
PCB-99 22'44'5-PeCB	31.00		1.0173	1.0174	+0.2	9.12E+06	0.62	0.90	149	3.75E+03	0.635
PCB-112 233'56-PeCB	31.12	J EMPC	1.0206	1.0212	+1.1	7.85E+04	0.75	1.17	0.984	3.75E+03	0.488
PCB-108/119/86/97/125...-PeCB	31.48	C	1.0320	1.0329	+1.7	1.45E+07	0.61	0.98	218	3.75E+03	0.584
PCB-117 234'56-PeCB	31.98	J	1.0495	1.0495	0	6.59E+05	0.60	1.18	8.19	3.75E+03	0.484
PCB-116/85 23456/22'344'-PeCB	32.06	C	1.0525	1.0522	-0.6	4.42E+06	0.63	0.88	73.9	3.75E+03	0.651
PCB-110 233'4'6-PeCB	32.19		1.0561	1.0564	+0.6	2.28E+07	0.62	1.10	305	3.75E+03	0.52
PCB-115 2344'6-PeCB	32.28		1.0590	1.0592	+0.4	7.49E+05	0.63	1.16	9.47	3.75E+03	0.492
PCB-82 22'33'4-PeCB	32.48		1.0655	1.0657	+0.4	2.55E+06	0.63	0.69	54.2	3.75E+03	0.828
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	3.75E+03	0.472
PCB-120 23'455'-PeCB	33.19	J	1.0887	1.0890	+0.6	4.64E+04	0.56	1.22	0.555	3.75E+03	0.466
PCB-107/124 ...-PeCB	34.16	J C	0.9916	0.9917	+0.2	6.80E+05	0.65	1.11	9	3.75E+03	0.515
PCB-109 233'46-PeCB	34.36		0.9976	0.9977	+0.2	1.36E+06	0.62	1.24	16.1	3.75E+03	0.46
PCB-106 233'45-PeCB	34.56	J EMPC	1.0038	1.0034	-0.8	6.22E+04	0.51	1.11	0.823	3.75E+03	0.514
PCB-122 233'4'5'-PeCB	35.04	J	1.0091	1.0091	0	3.09E+05	0.67	1.03	4.31	3.75E+03	0.546
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	3.75E+03	0.489
PCB-155 22'44'66'-HxCB	30.33	J EMPC	1.0007	1.0007	0	2.37E+04	1.68	1.26	0.273	1.34E+03	0.159
PCB-152 22'3566'-HxCB	30.48	J EMPC	1.0060	1.0059	-0.2	1.79E+04	0.87	1.14	0.228	1.34E+03	0.177
PCB-150 22'34'66'-HxCB	30.63	J	1.0107	1.0106	-0.2	2.19E+04	1.28	1.15	0.275	1.34E+03	0.174
PCB-136 22'33'66'-HxCB	30.94		1.0207	1.0209	+0.4	9.54E+05	1.14	1.06	13.1	1.34E+03	0.19
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.34E+03	0.184
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.34E+03	0.239
PCB-151/135 ...-HxCB	32.99	C	1.0886	1.0887	+0.2	1.54E+06	1.32	1.09	28.4	1.34E+03	0.251
PCB-154 22'44'56'-HxCB	33.21	J EMPC	1.0954	1.0957	+0.6	6.56E+04	0.96	1.29	1.03	1.34E+03	0.213
PCB-144 22'345'6-HxCB	33.47	J	1.1041	1.1045	+0.8	2.63E+05	1.23	1.14	4.67	1.34E+03	0.241
PCB-147/149 ...-HxCB	33.77	C	1.1141	1.1143	+0.4	3.88E+06	1.28	1.11	70.2	1.34E+03	0.246
PCB-134 22'33'56-HxCB	33.95	J	1.1199	1.1202	+0.6	2.55E+05	1.26	0.93	5.51	1.34E+03	0.294
PCB-143 22'3456'-HxCB	34.04	J	1.1225	1.1232	+1.4	1.86E+04	1.34	1.02	0.367	1.34E+03	0.268
PCB-139/140 ...-HxCB	34.29	J C	1.1312	1.1314	+0.4	1.25E+05	1.17	1.13	2.24	1.34E+03	0.242
PCB-131 22'33'46-HxCB	34.47	J	1.1369	1.1375	+1.2	1.01E+05	1.32	0.98	2.1	1.34E+03	0.281
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.34E+03	0.289
PCB-132 22'33'46'-HxCB	34.85		1.1494	1.1499	+1.0	1.79E+06	1.29	0.99	36.5	1.34E+03	0.277
PCB-133 22'33'55'-HxCB	35.25	J	1.1626	1.1632	+1.3	6.88E+04	1.31	1.05	1.32	1.34E+03	0.261
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.34E+03	0.203
PCB-146 22'34'55'-HxCB	35.80		0.9582	0.9581	-0.2	7.90E+05	1.20	1.15	13.9	1.34E+03	0.238
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.34E+03	0.186
PCB-153/168 ...-HxCB	36.33	C	0.9728	0.9722	-1.3	4.82E+06	1.27	1.42	68.6	1.34E+03	0.193

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.50		0.9766	0.9766	0	8.74E+05	1.31	1.04	17	1.34E+03	0.264
PCB-130 22'33'45'-HxCB	36.84	J	0.9859	0.9859	0	3.45E+05	1.16	0.92	7.57	1.34E+03	0.298
PCB-137 22'344'5-HxCB	37.04	J	0.9911	0.9912	+0.2	3.17E+05	1.40	1.11	5.75	1.34E+03	0.246
PCB-164 233'4'5'6-HxCB	37.13	J	0.9933	0.9935	+0.4	4.68E+05	1.19	1.43	6.63	1.34E+03	0.192
PCB-163/138/129 ...-HxCB	37.40	C	1.0011	1.0007	-0.9	5.90E+06	1.22	1.15	104	1.34E+03	0.239
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.34E+03	0.197
PCB-158 233'44'6-HxCB	37.73		1.0096	1.0096	0	7.89E+05	1.33	1.53	10.4	1.34E+03	0.179
PCB-128/166 ...-HxCB	38.48	C	0.9641	0.9642	+0.2	9.97E+05	1.25	0.90	17.1	1.71E+03	0.315
PCB-159 233'455'-HxCB	39.26	J EMPC	0.9844	0.9837	-1.6	4.82E+04	0.93	1.10	0.677	1.71E+03	0.259
PCB-162 233'4'55'-HxCB	39.51	J	0.9903	0.9901	-0.5	3.37E+04	1.08	1.10	0.473	1.71E+03	0.258
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	9.79E+02	0.157
PCB-179 22'33'566'-HpCB	35.49	J	1.0086	1.0087	+0.2	3.75E+05	1.02	1.13	6.7	9.79E+02	0.177
PCB-184 22'344'66'-HpCB	35.94	J	1.0216	1.0216	0	2.61E+04	1.14	1.06	0.498	9.79E+02	0.189
PCB-176 22'33'466'-HpCB	36.24	J	1.0300	1.0300	0	1.08E+05	1.16	1.15	1.91	9.79E+02	0.174
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	9.79E+02	0.186
PCB-178 22'33'55'6-HpCB	37.76	J	1.0733	1.0733	0	1.26E+05	0.98	0.77	3.27	9.79E+02	0.258
PCB-175 22'33'45'6-HpCB	38.32	J	1.0887	1.0891	+0.9	3.35E+04	0.94	1.07	0.662	1.54E+03	0.317
PCB-187 22'34'55'6-HpCB	38.54		1.0952	1.0954	+0.5	9.51E+05	1.03	1.15	17.5	1.54E+03	0.296
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.54E+03	0.289
PCB-183 22'344'5'6-HpCB	39.06	J	1.1101	1.1103	+0.5	4.02E+05	1.08	1.20	7.14	1.54E+03	0.285
PCB-185 22'3455'6-HpCB	39.14	J	1.1125	1.1125	0	8.25E+04	1.04	1.10	1.59	1.54E+03	0.308
PCB-174 22'33'456'-HpCB	39.26		1.1156	1.1159	+0.7	6.16E+05	1.13	0.94	14	1.54E+03	0.363
PCB-177 22'33'45'6'-HpCB	39.63	J	1.1262	1.1265	+0.7	3.67E+05	1.08	0.92	8.43	1.54E+03	0.369
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.54E+03	0.318
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1418	+1.2	1.91E+05	1.01	0.94	4.32	1.54E+03	0.363
PCB-172 22'33'455'-HpCB	41.51	J	0.9080	0.9078	-0.5	1.14E+05	1.07	0.98	2.48	1.54E+03	0.348
PCB-192 233'455'6-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.54E+03	0.264
PCB-180/193 ...-HpCB	42.07	C	0.9194	0.9200	+1.5	1.68E+06	0.96	1.24	28.6	1.54E+03	0.274
PCB-191 233'44'5'6-HpCB	42.37	J	0.9266	0.9266	0	4.73E+04	1.13	1.38	0.726	1.54E+03	0.246
PCB-170 22'33'44'5-HpCB	43.14		0.9434	0.9434	0	6.29E+05	1.07	1.13	14.5	1.54E+03	0.365
PCB-190 233'44'56-HpCB	43.59	J	0.9533	0.9533	0	1.67E+05	0.92	1.60	2.73	1.54E+03	0.259
PCB-202 22'33'55'66'-OoCB	39.74	J	1.0005	1.0006	+0.2	9.44E+04	0.94	1.05	1.83	1.31E+03	0.267
PCB-201 22'33'45'66'-OoCB	40.52	J	1.0203	1.0202	-0.2	6.13E+04	0.79	1.14	1.09	1.31E+03	0.246
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.31E+03	0.262
PCB-197 22'33'44'66'-OoCB	41.30	J	1.0396	1.0398	+0.5	2.70E+04	0.93	1.10	0.501	1.31E+03	0.256
PCB-200 22'33'4566'-OoCB	41.38	J	1.0418	1.0419	+0.2	5.76E+04	0.79	1.08	1.08	1.31E+03	0.26
PCB-198/199 ...-OoCB	43.72	J C	1.1001	1.1008	+1.8	2.85E+05	0.99	0.74	7.82	1.31E+03	0.379
PCB-196 22'33'44'56'-OoCB	44.28	J EMPC	1.1146	1.1148	+0.5	1.03E+05	1.14	0.80	2.65	1.31E+03	0.354
PCB-203 22'344'55'6-OoCB	44.45	J	1.1188	1.1192	+1.1	1.73E+05	1.02	0.83	4.23	1.31E+03	0.338
PCB-195 22'33'44'56-OoCB	45.57	J	0.9516	0.9515	-0.3	6.66E+04	0.92	0.72	2.23	1.42E+03	0.508
PCB-194 22'33'44'55'-OoCB	47.51	J	0.9921	0.9921	0	2.03E+05	0.97	0.81	6.09	1.42E+03	0.456
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.42E+03	0.346
PCB-208 22'33'455'66'-NoCB	45.37	J	1.0005	1.0005	0	1.20E+05	0.76	1.12	2.33	3.41E+03	0.686
PCB-207 22'33'44'566'-NoCB	46.15	J	1.0178	1.0178	0	1.19E+05	0.72	1.18	2.22	3.41E+03	0.655
PCB-206 22'33'44'55'6-NoCB	49.38	J	1.0004	1.0006	+0.6	1.51E+05	0.88	1.11	4.7	3.41E+03	1.11

SGS ID: A6521\_11903\_PCB\_002-RJ  
Instr: [ILM] AutoSpec-Premier MM7

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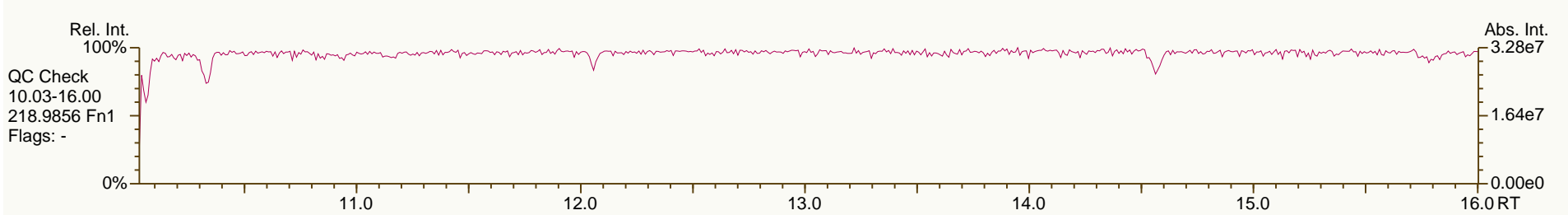
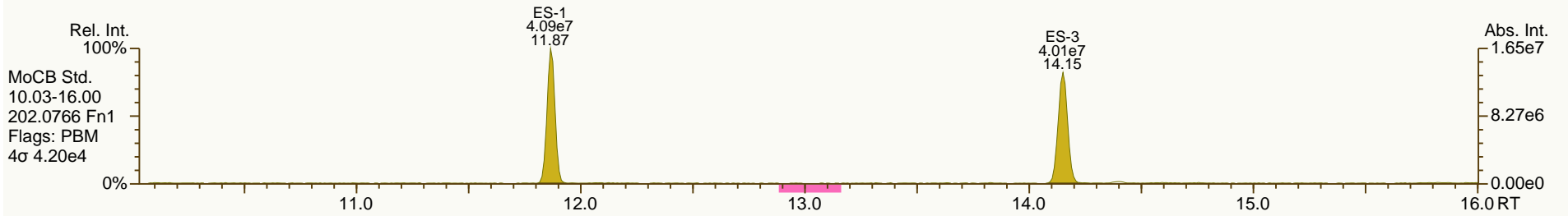
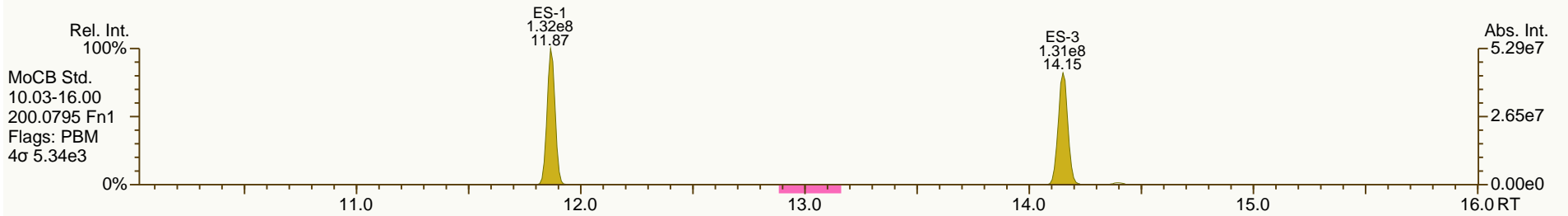
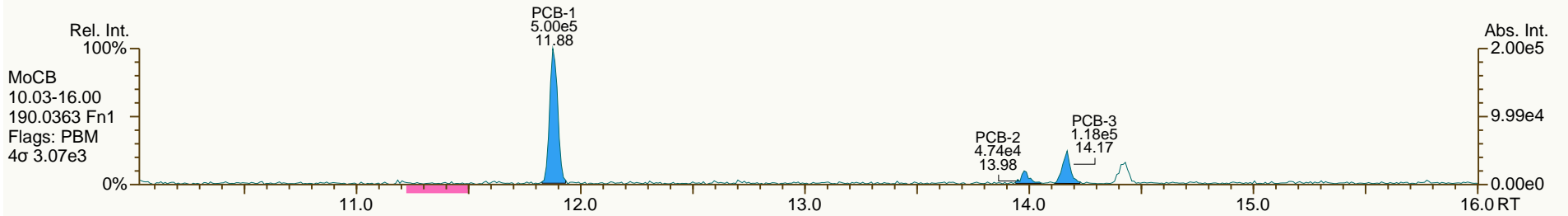
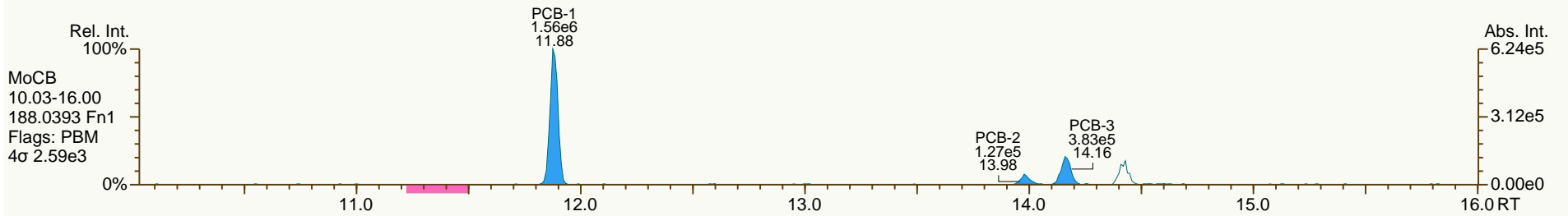
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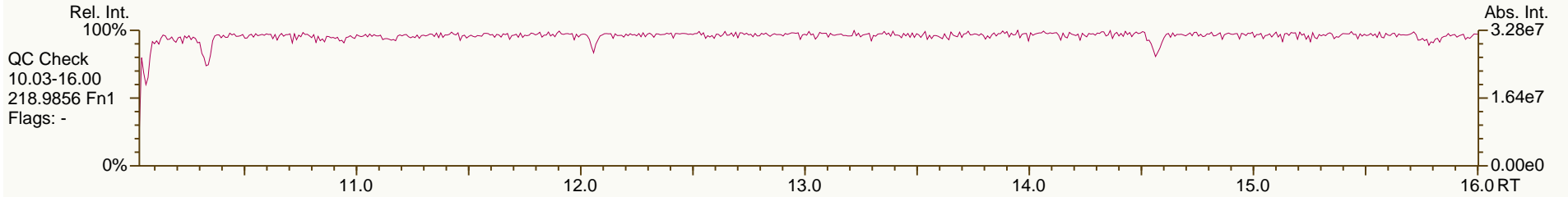
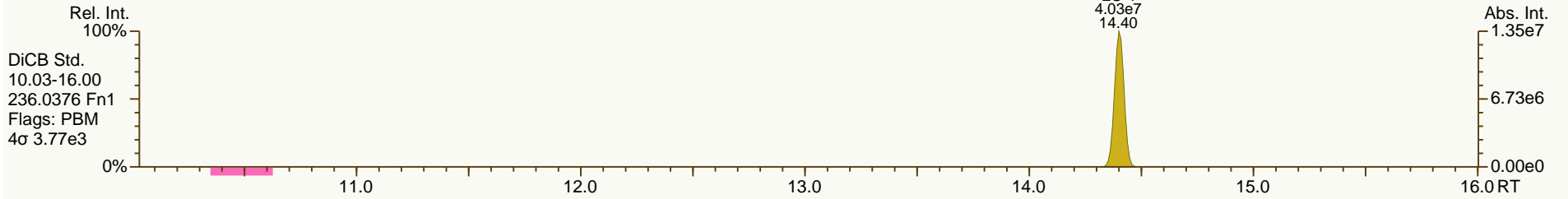
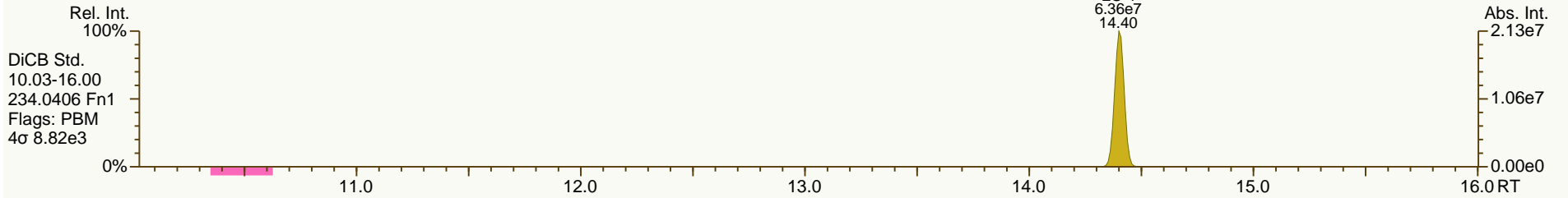
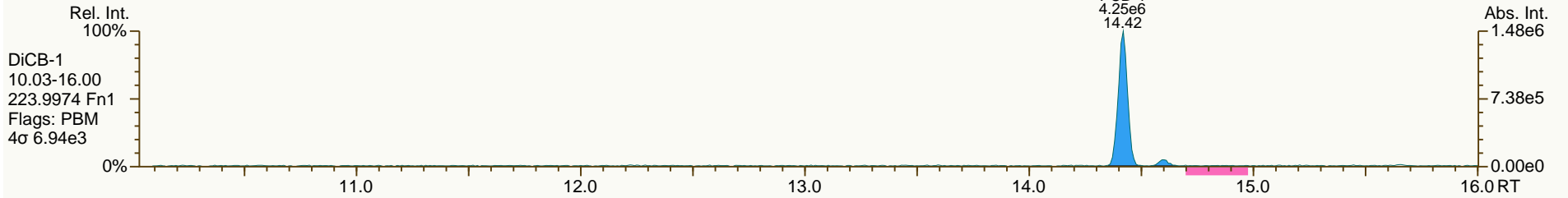
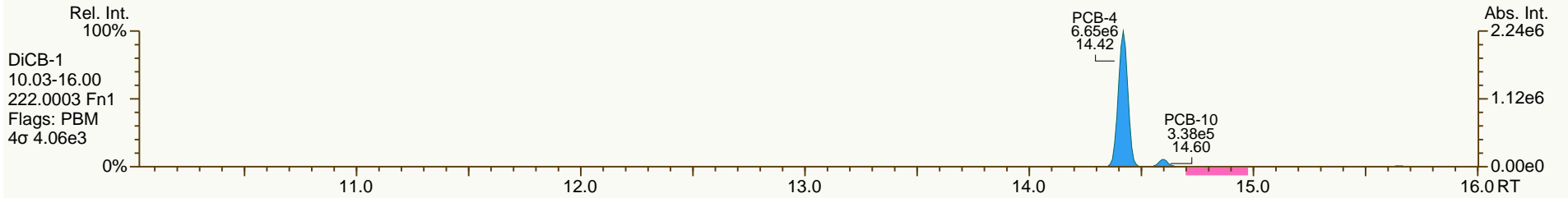
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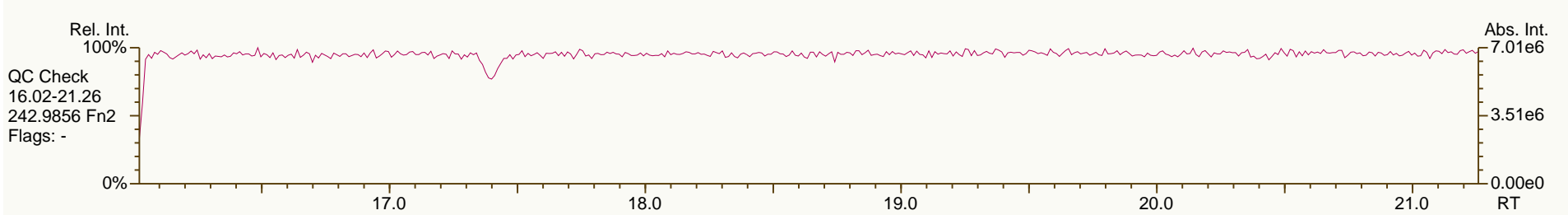
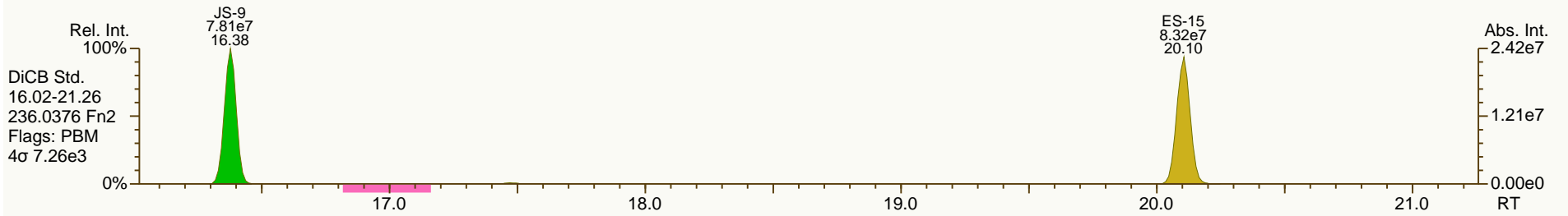
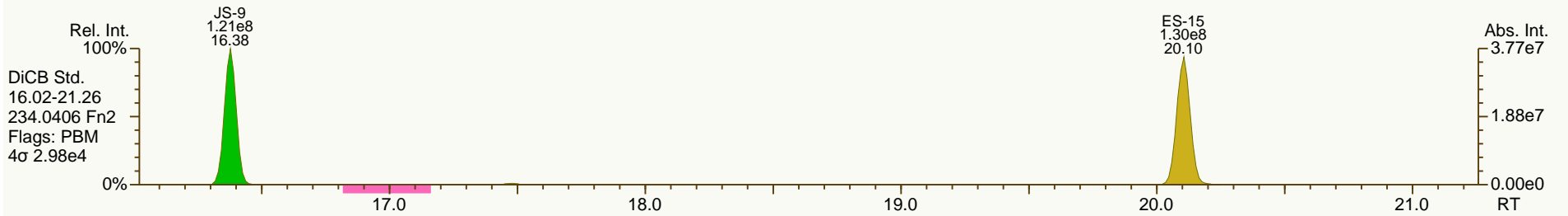
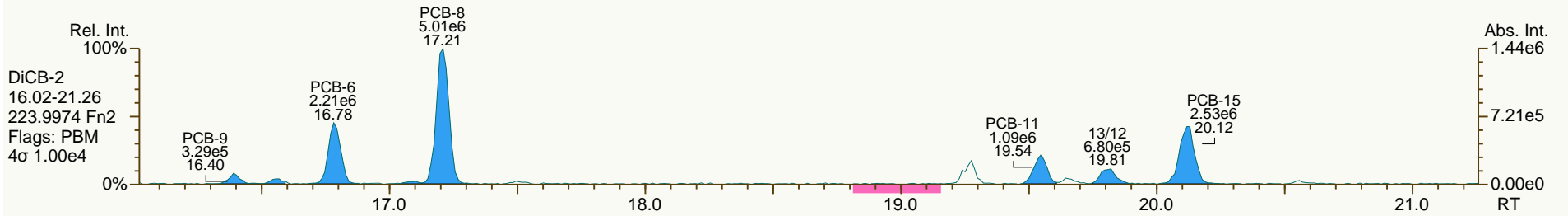
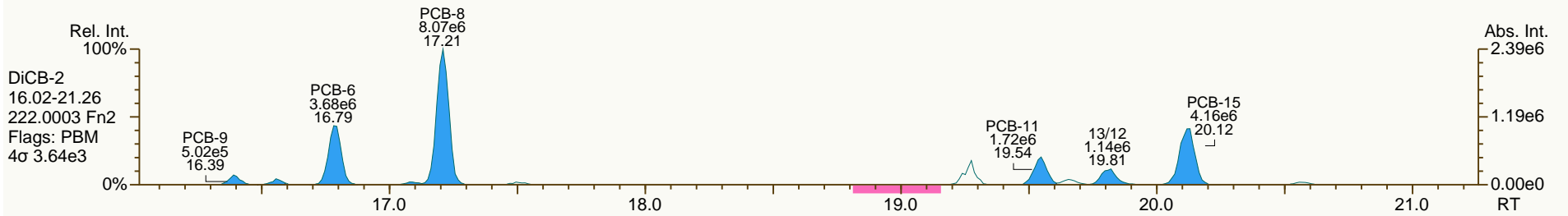
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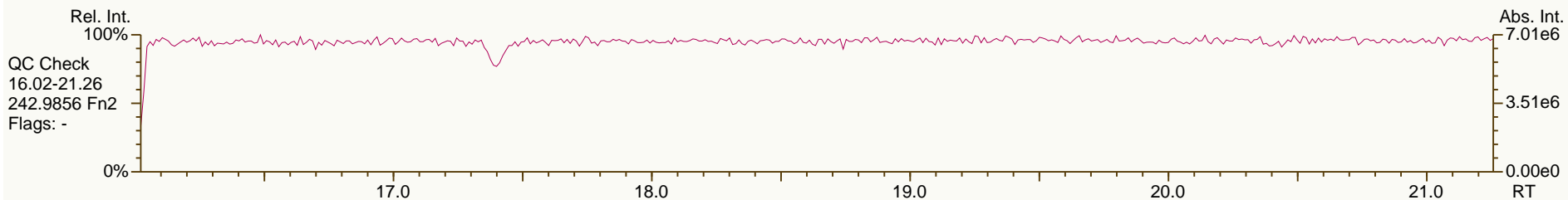
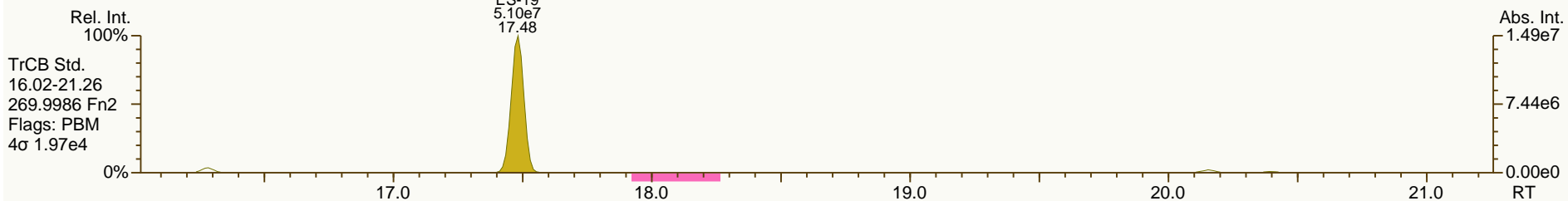
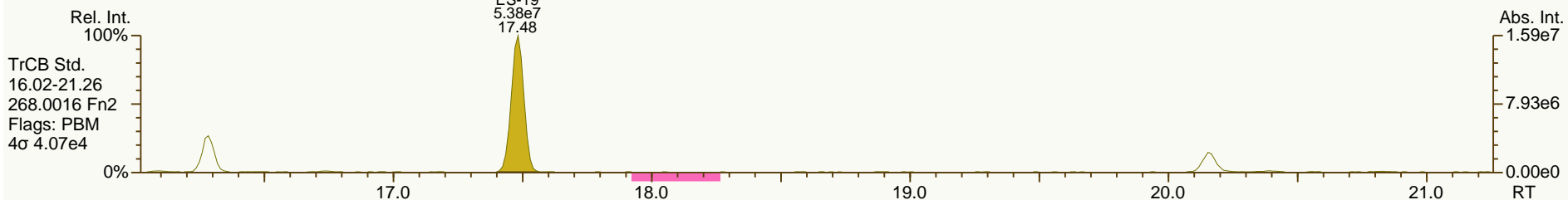
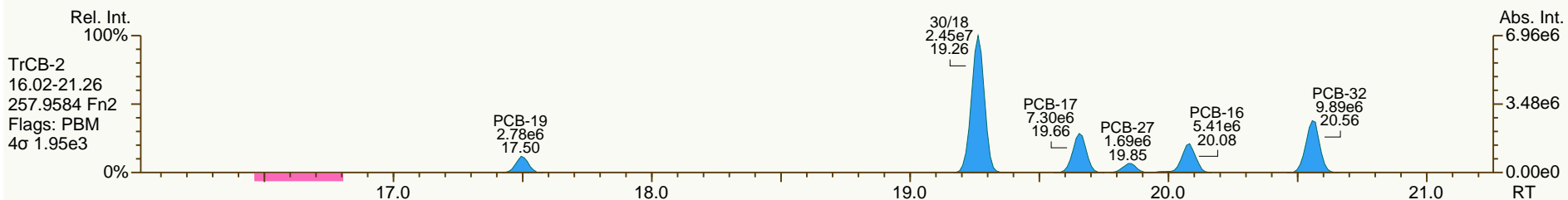
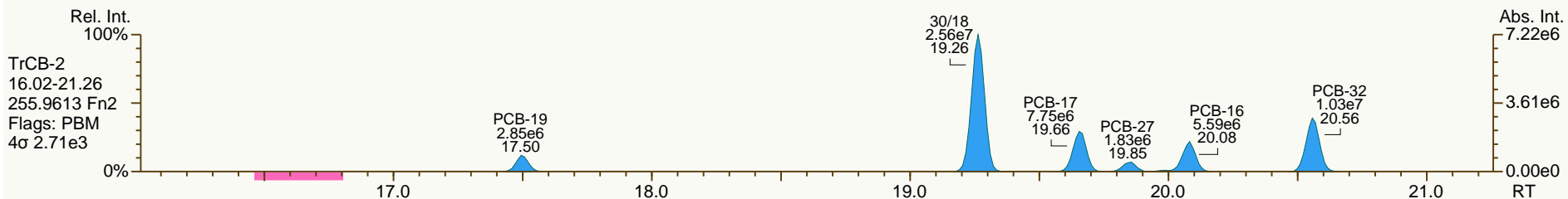




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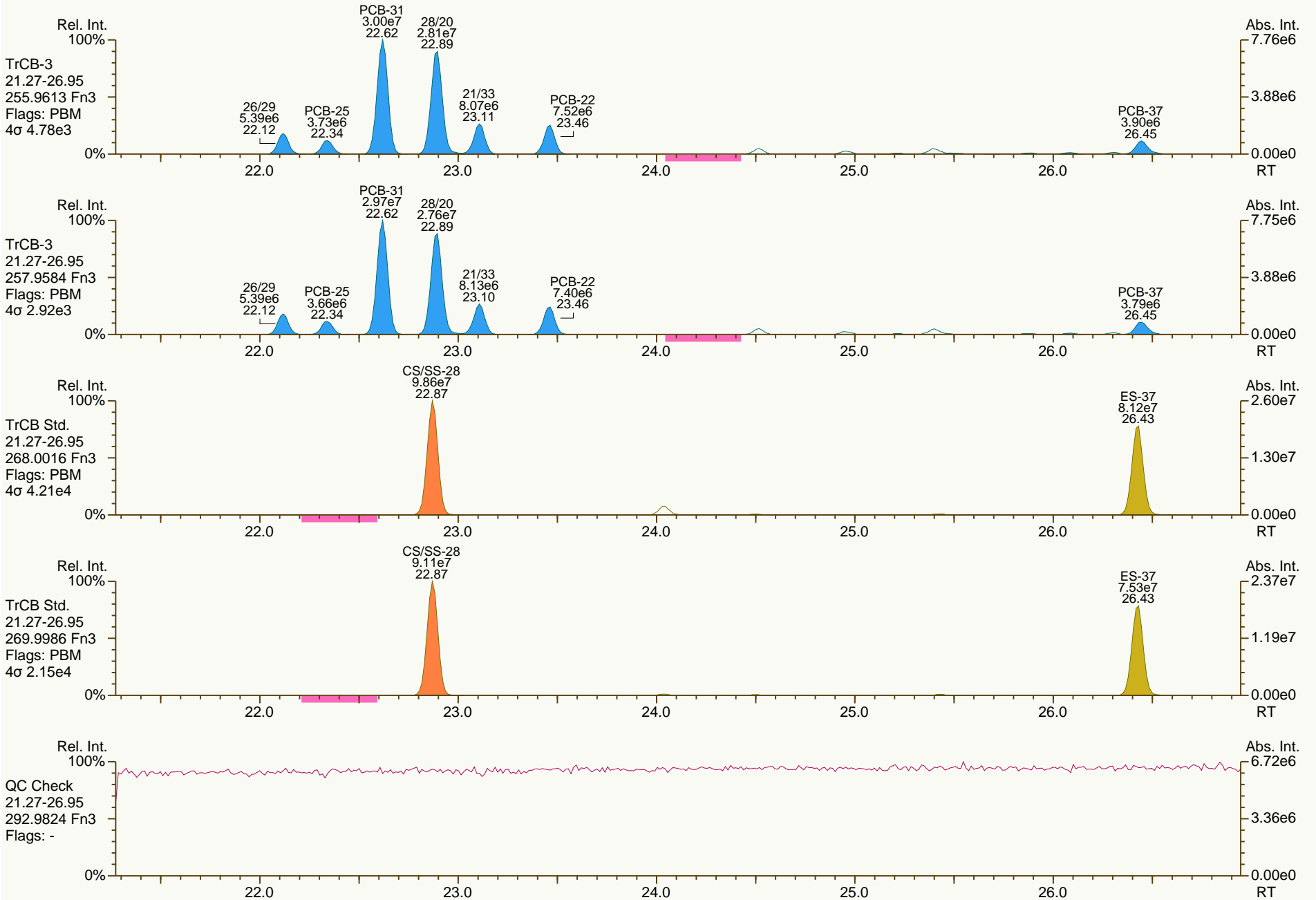
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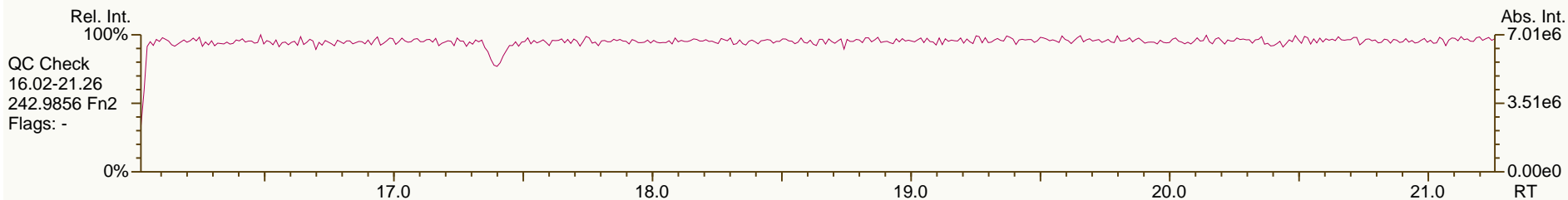
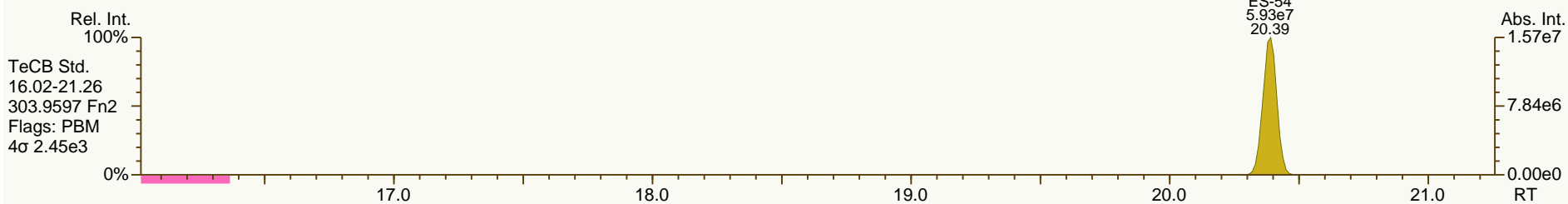
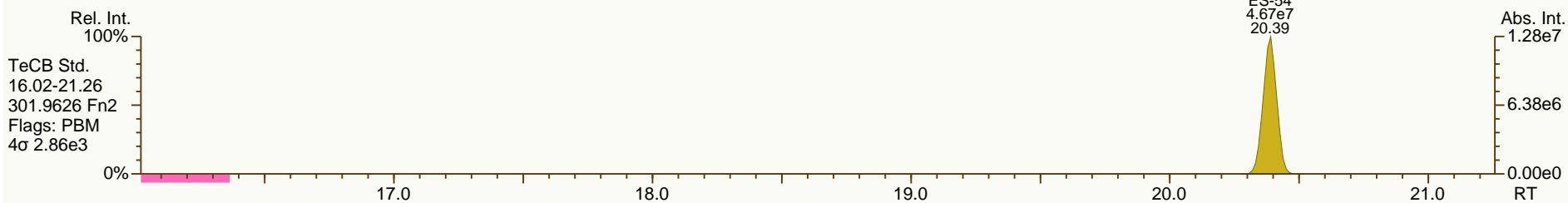
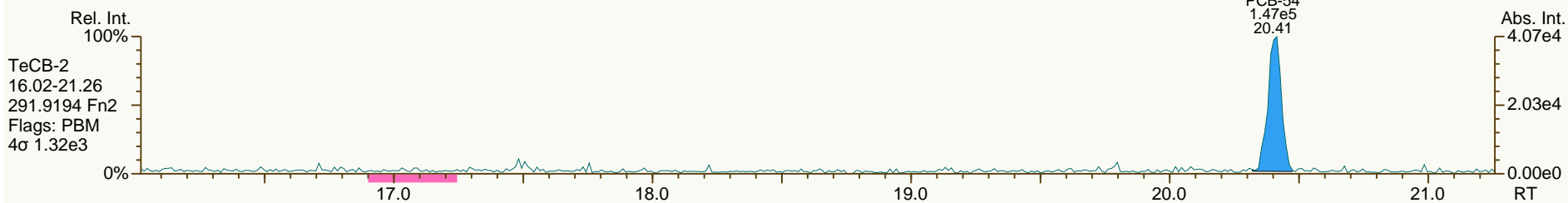
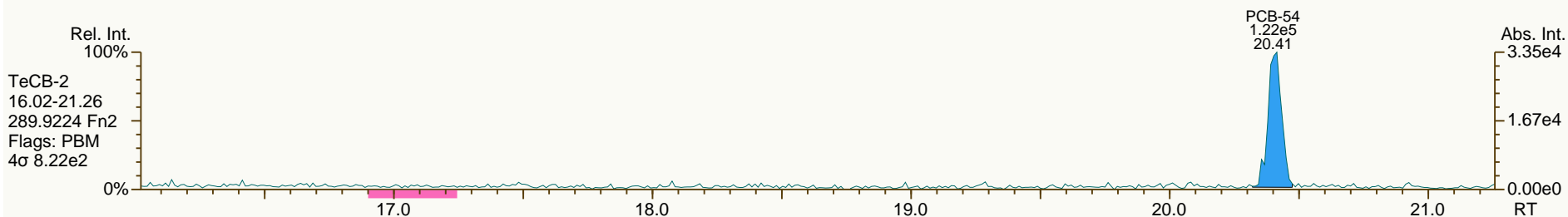
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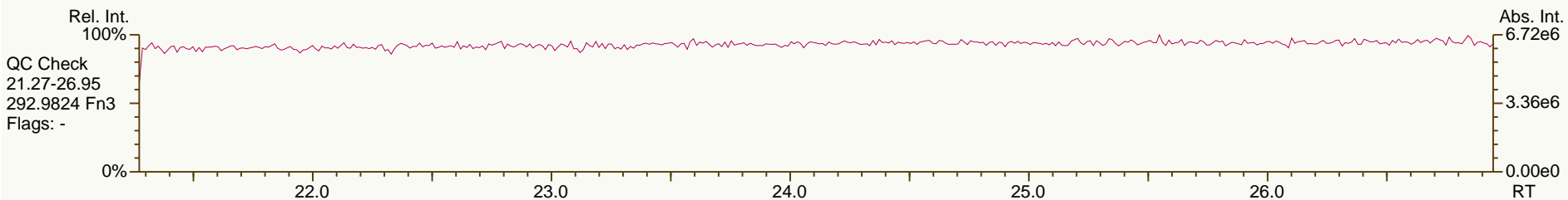
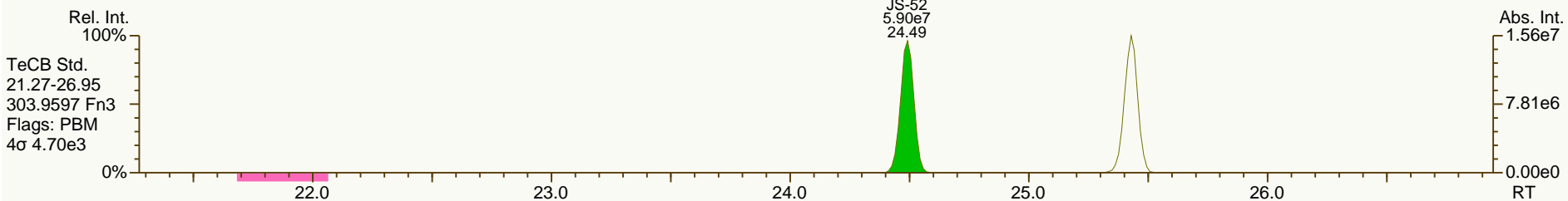
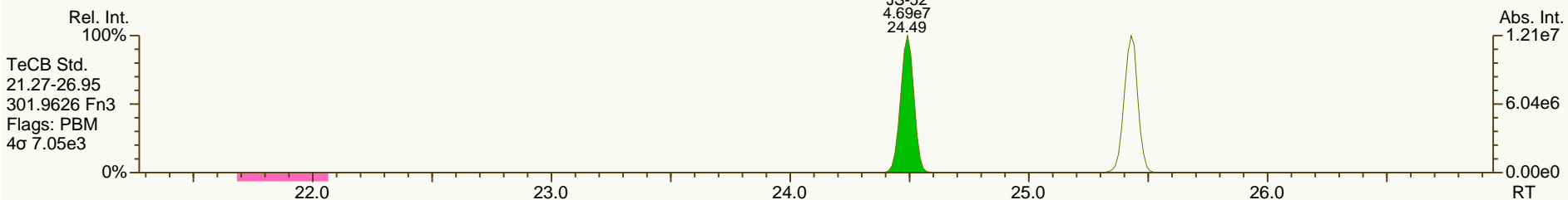
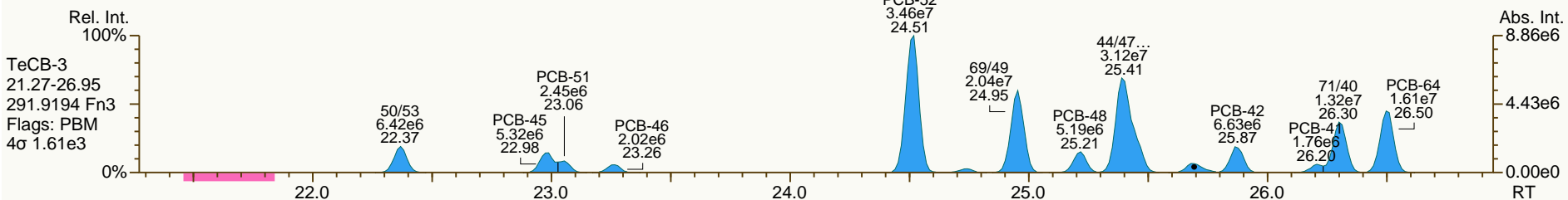
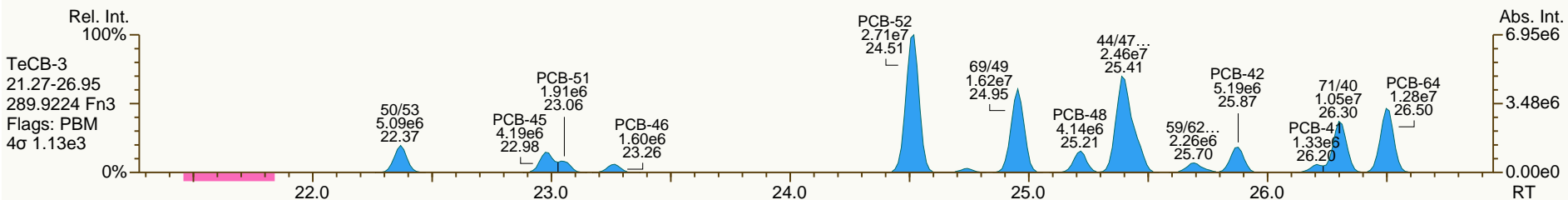
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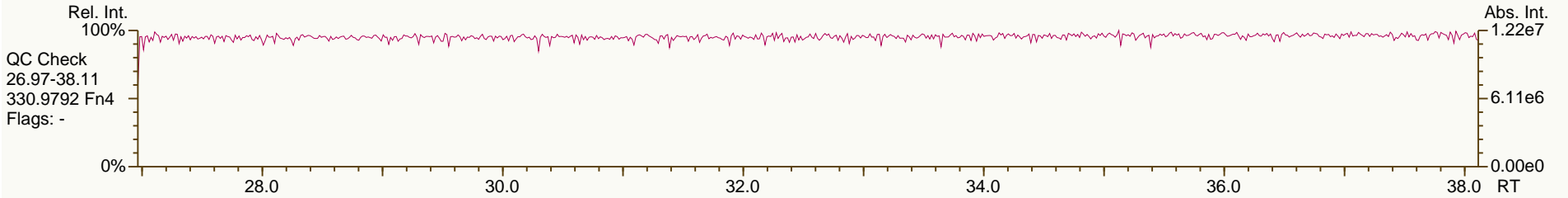
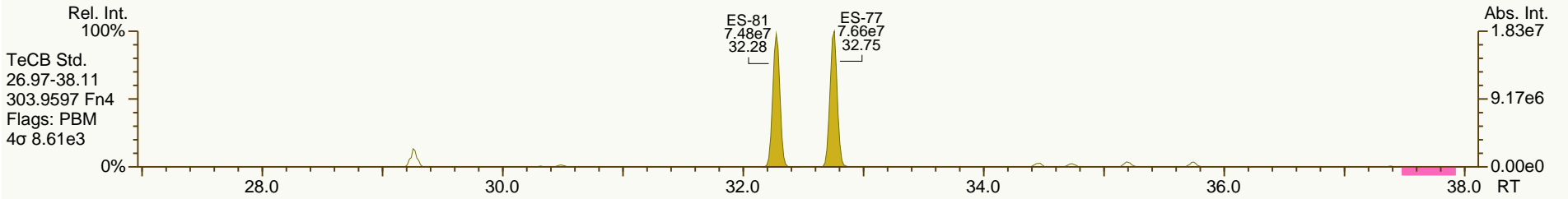
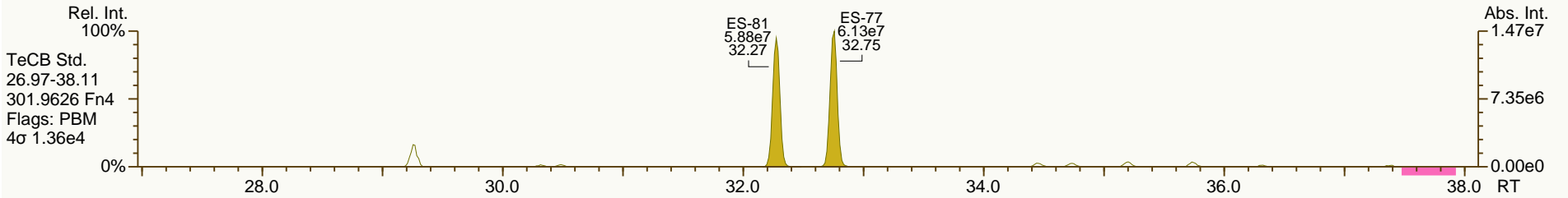
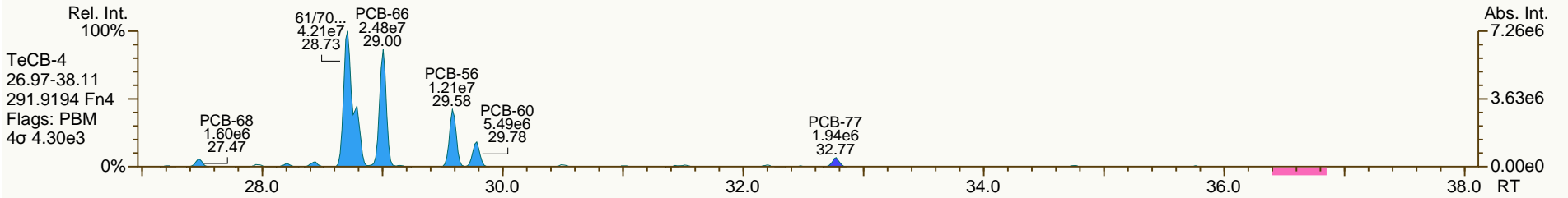
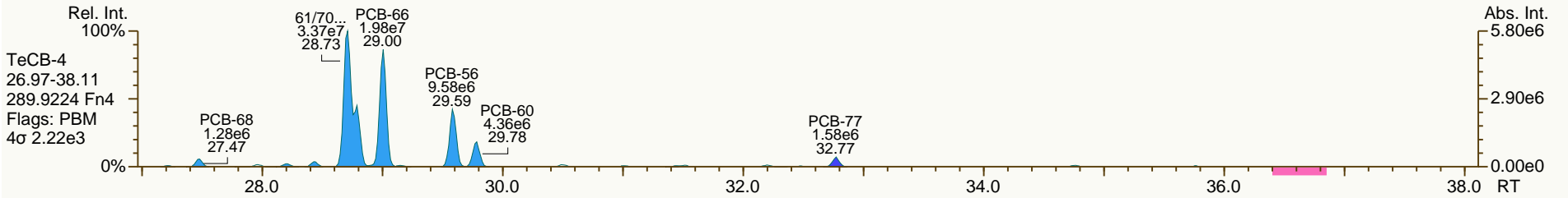
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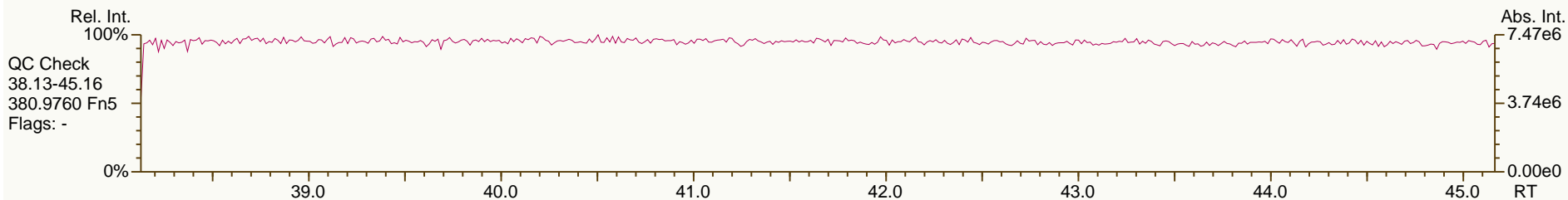
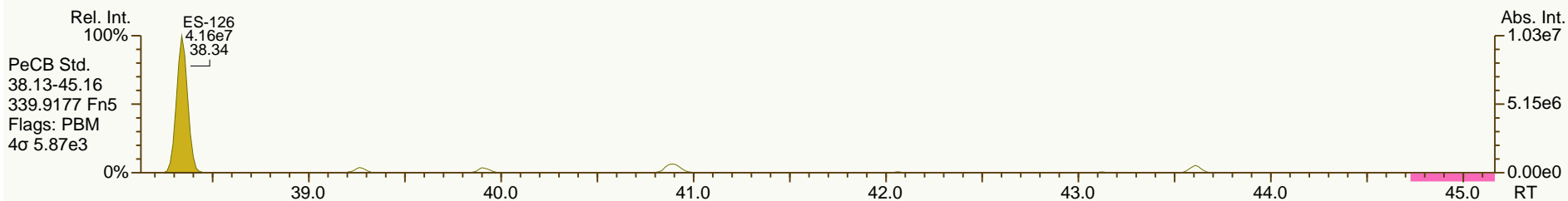
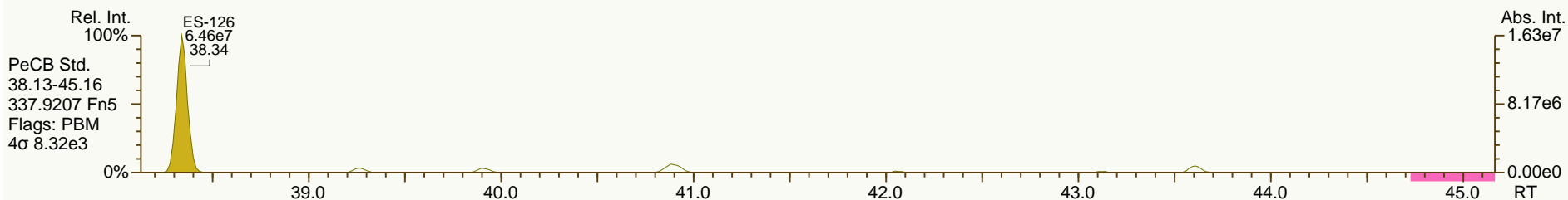
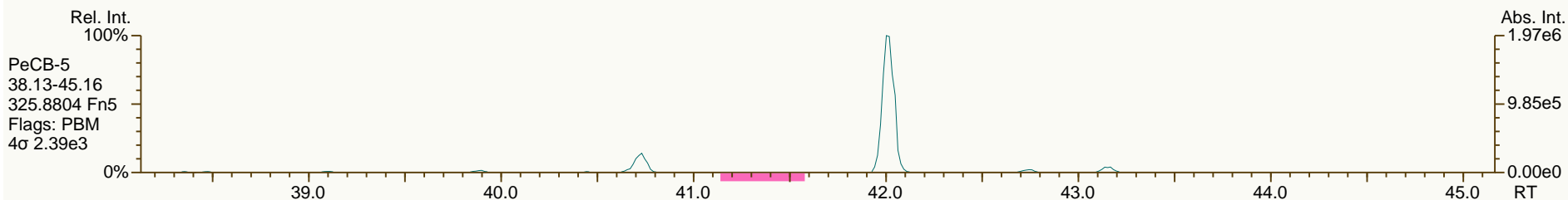
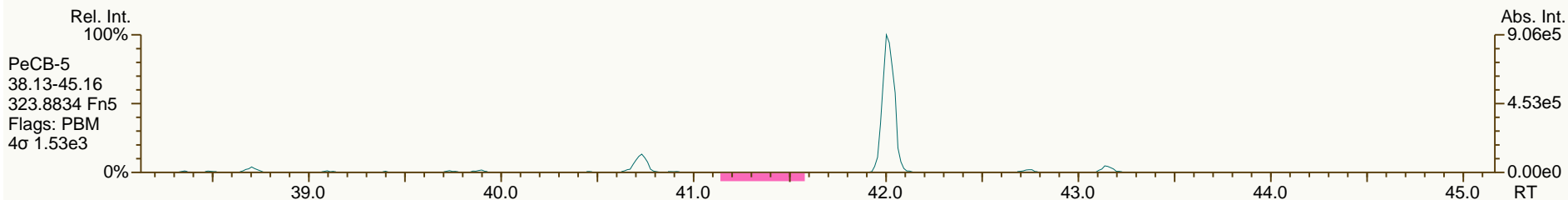
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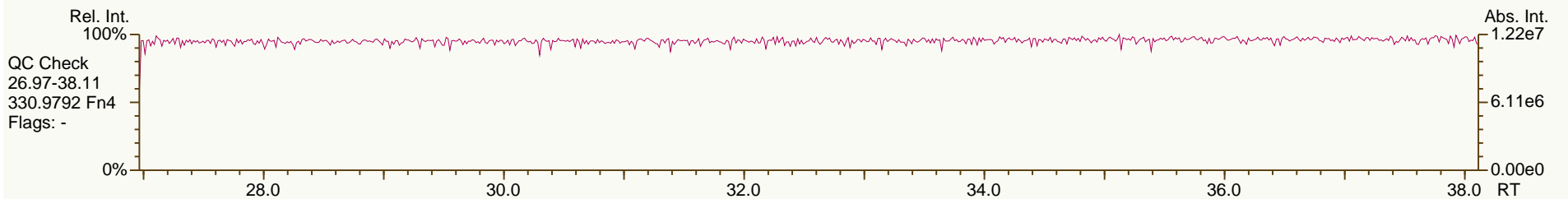
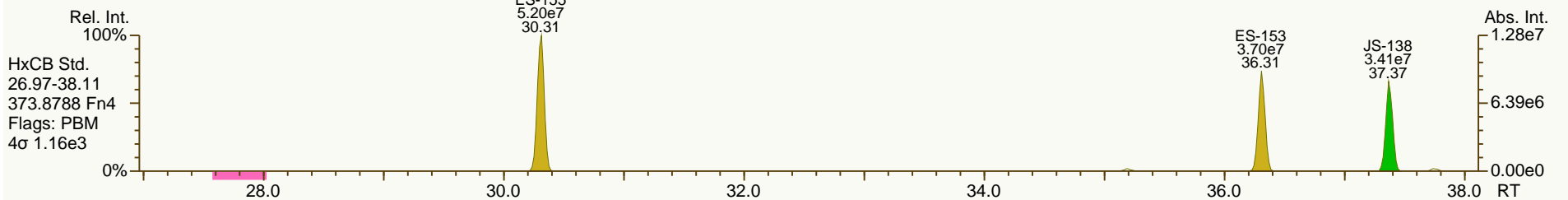
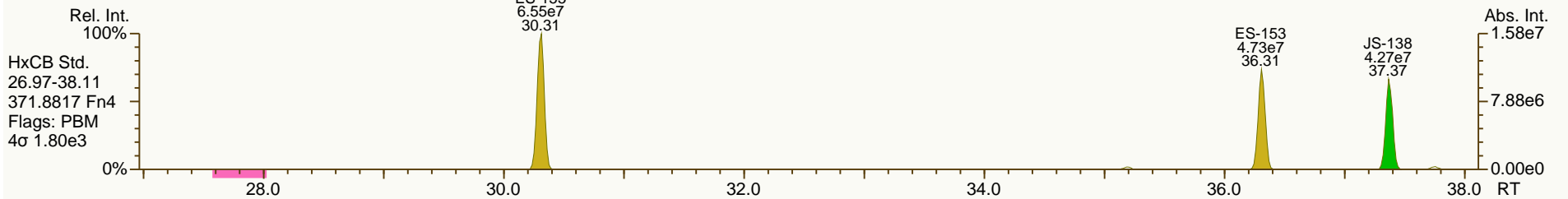
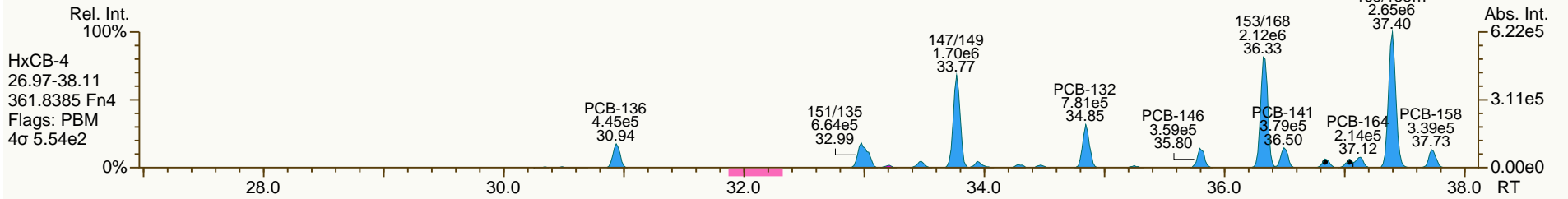
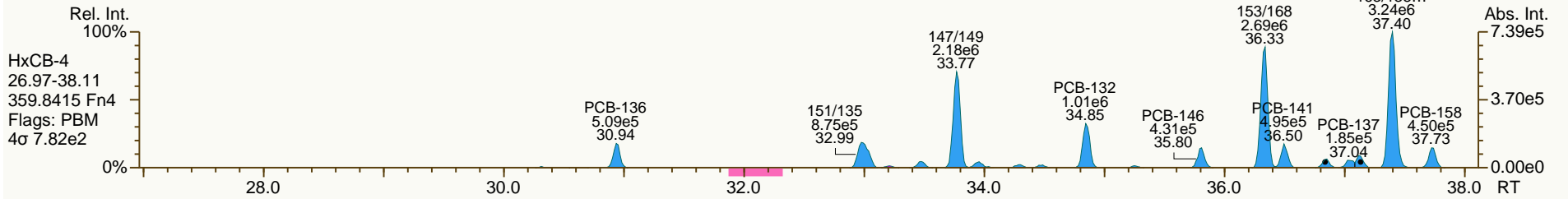




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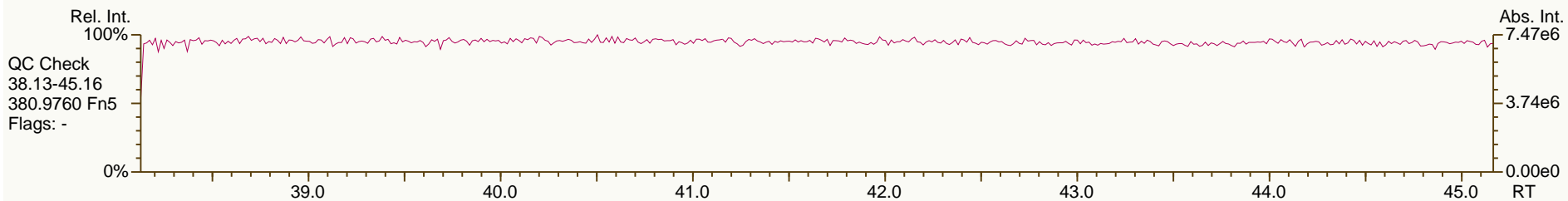
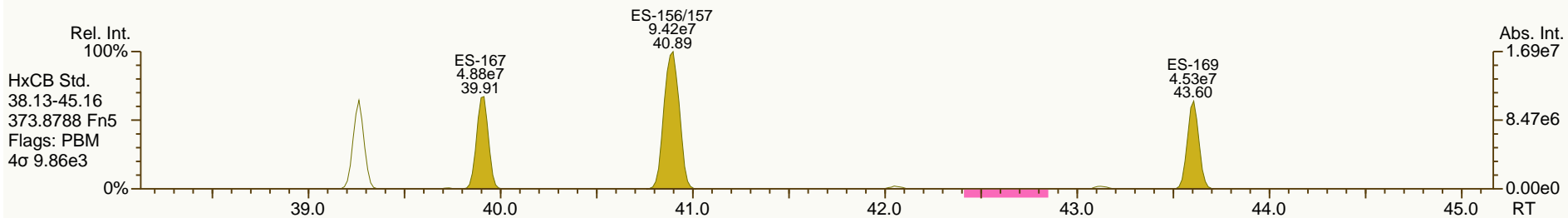
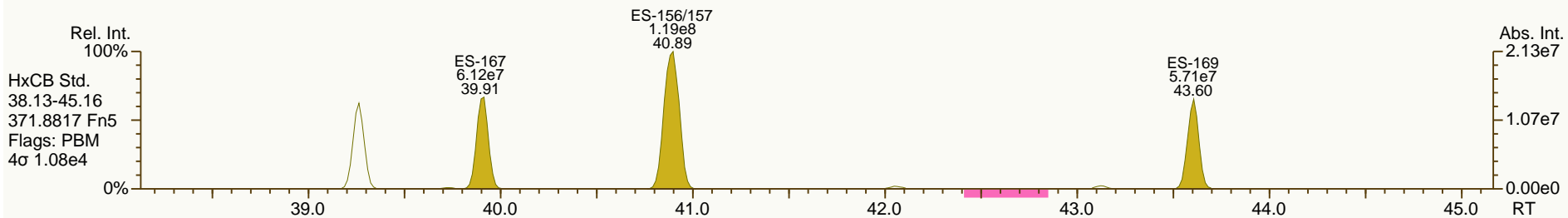
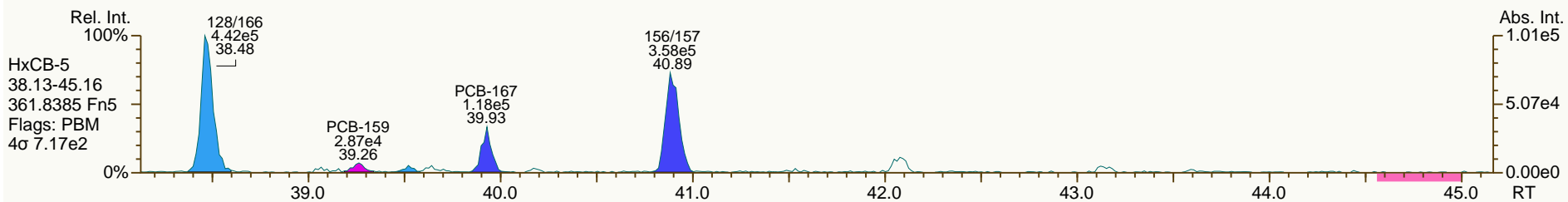
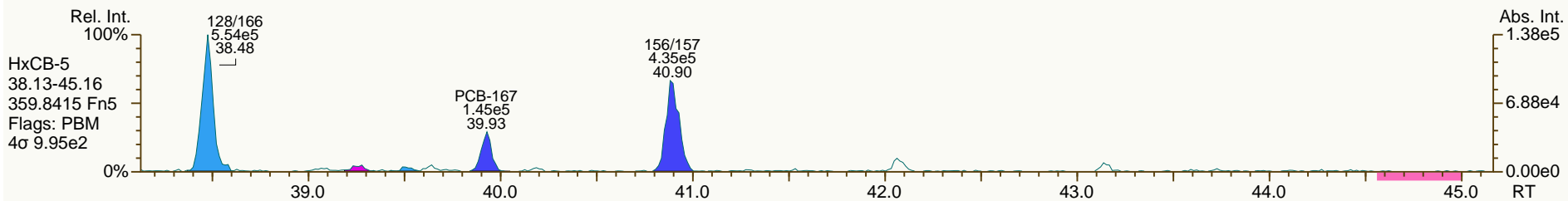
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 80

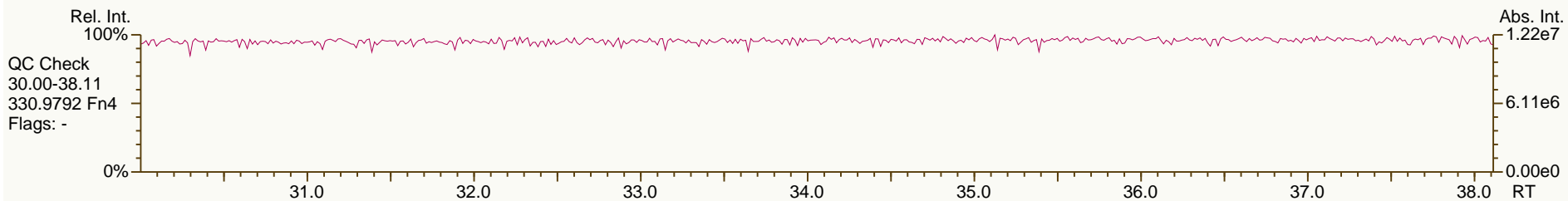
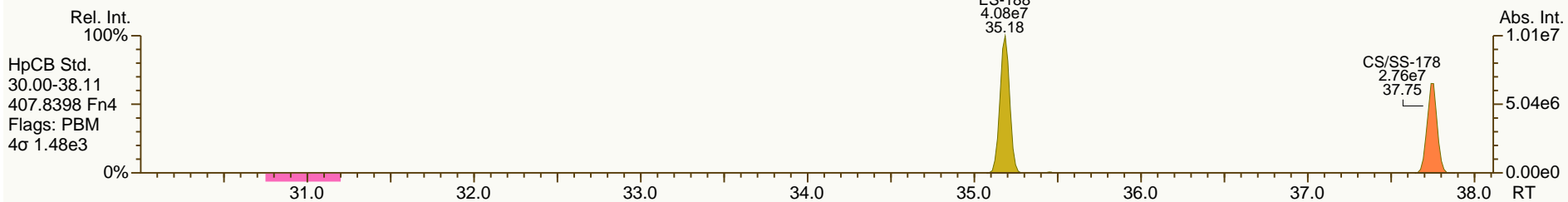
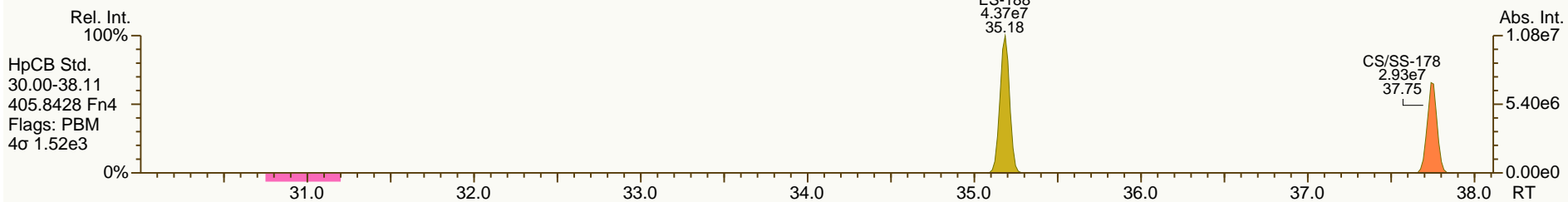
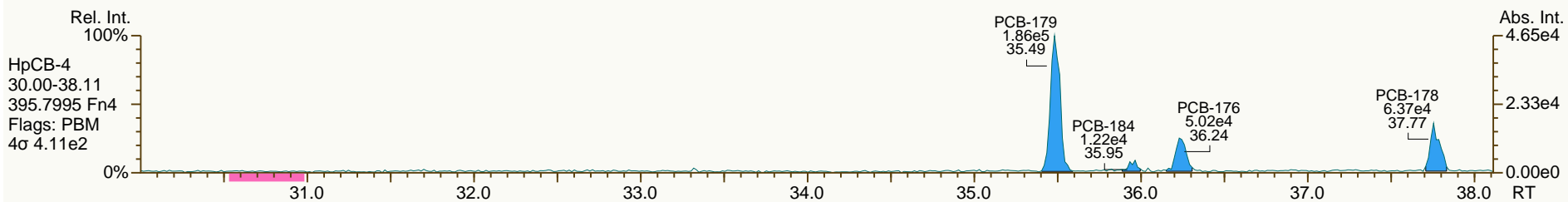
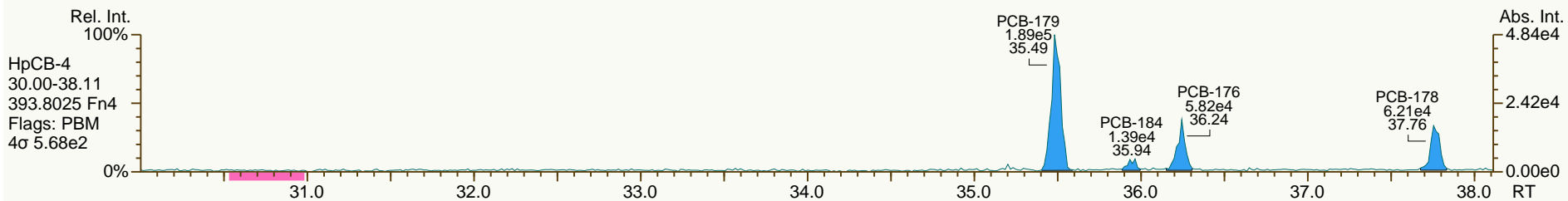
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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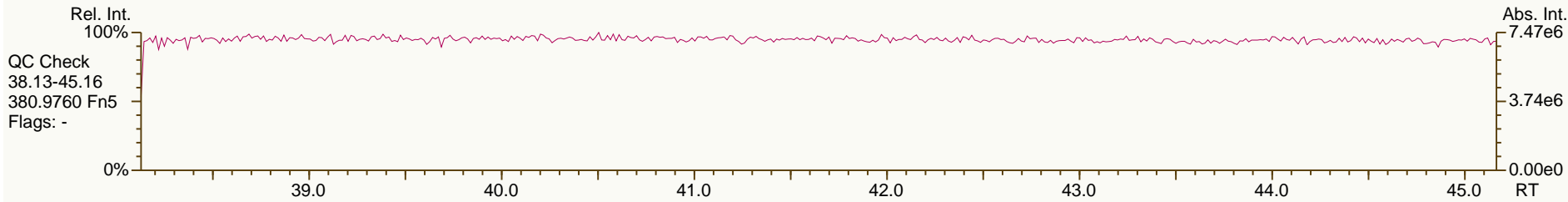
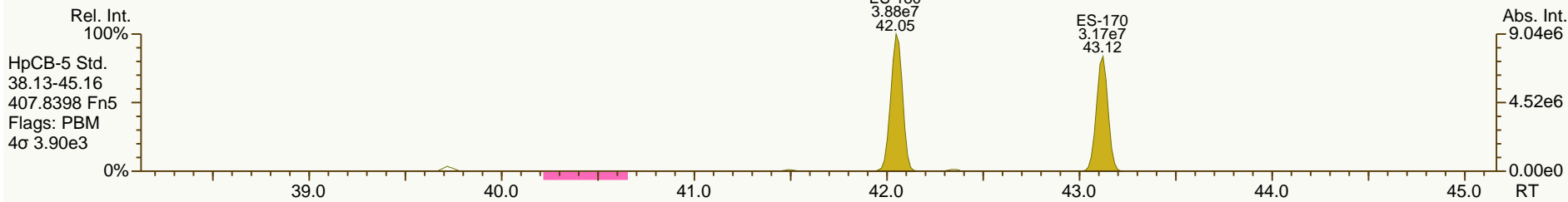
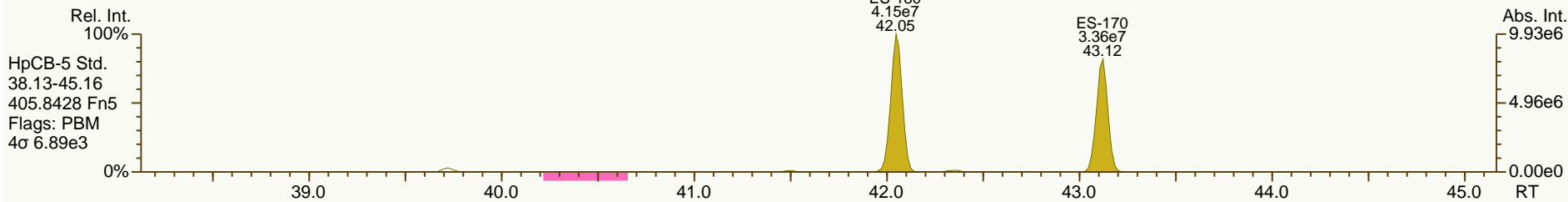
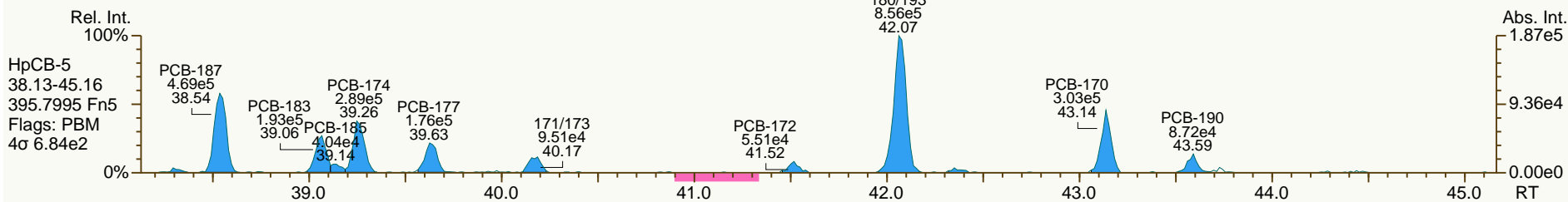
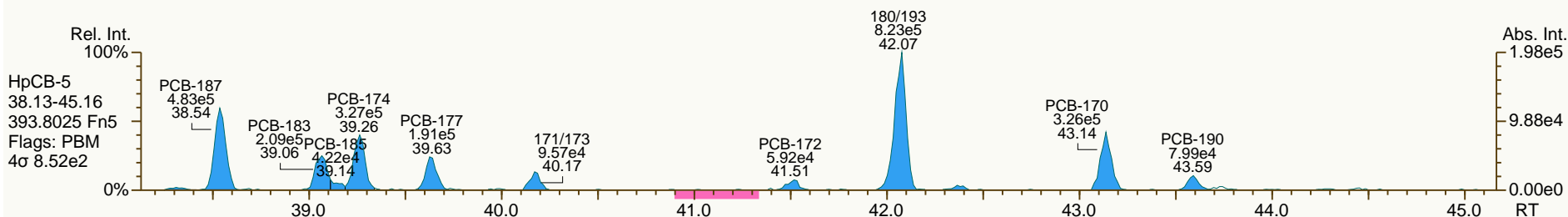
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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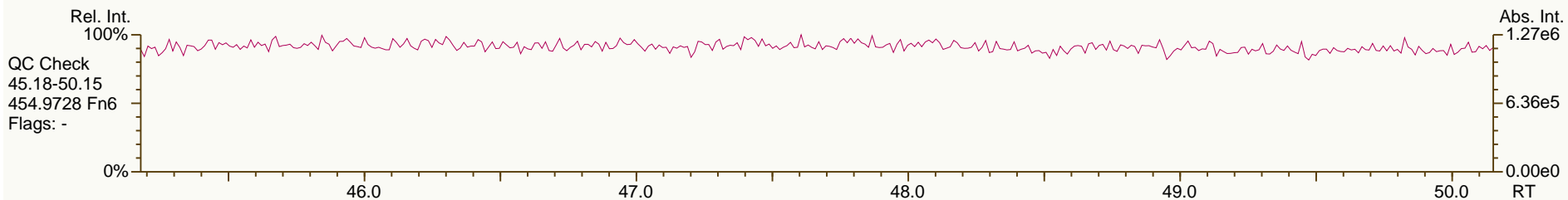
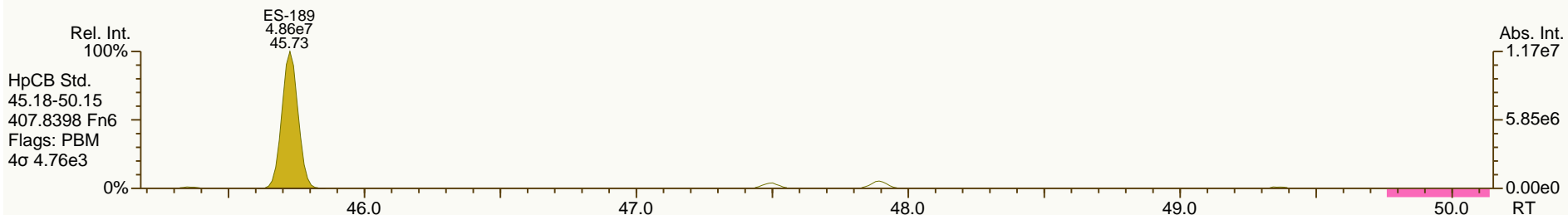
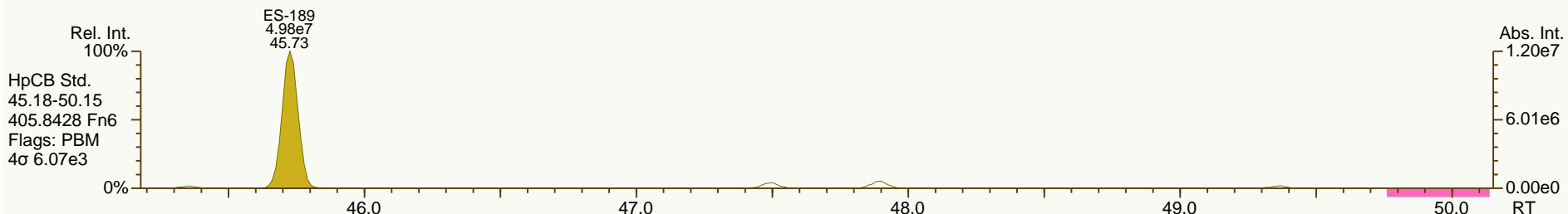
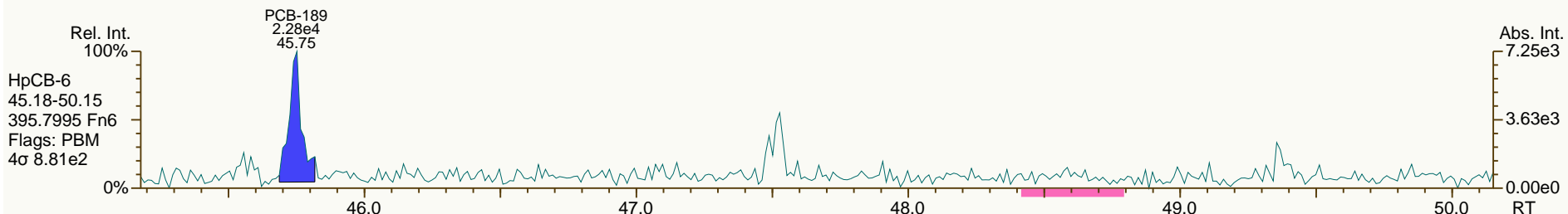
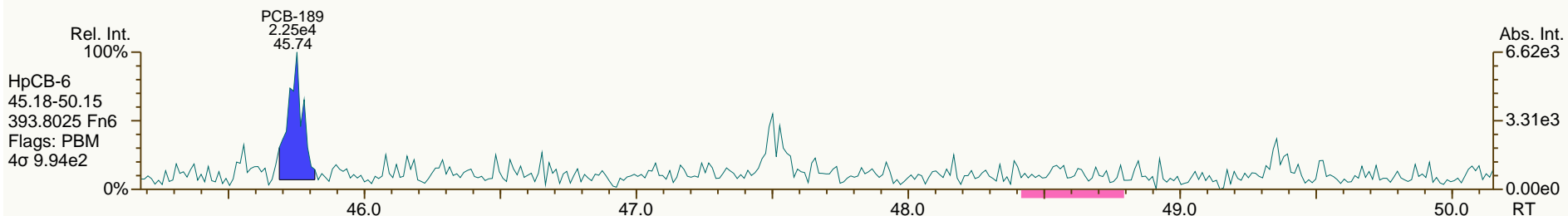
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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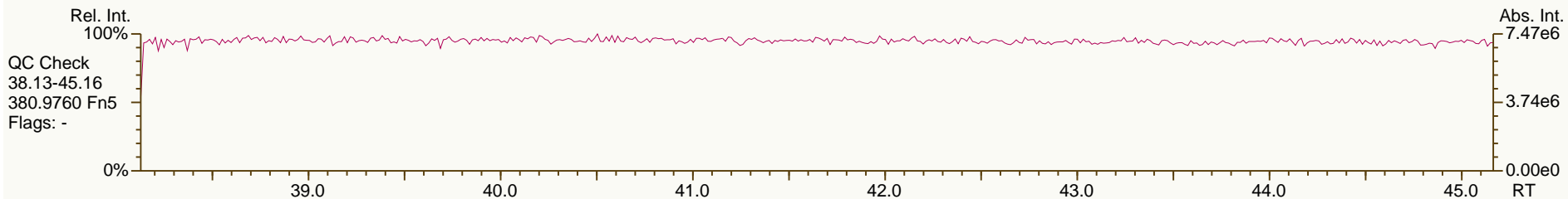
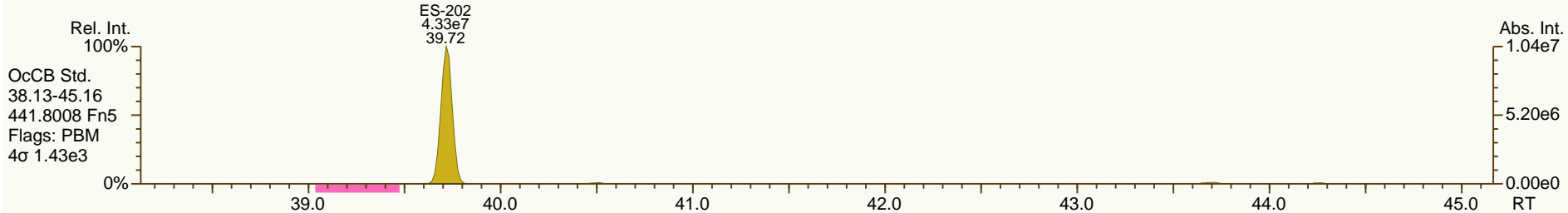
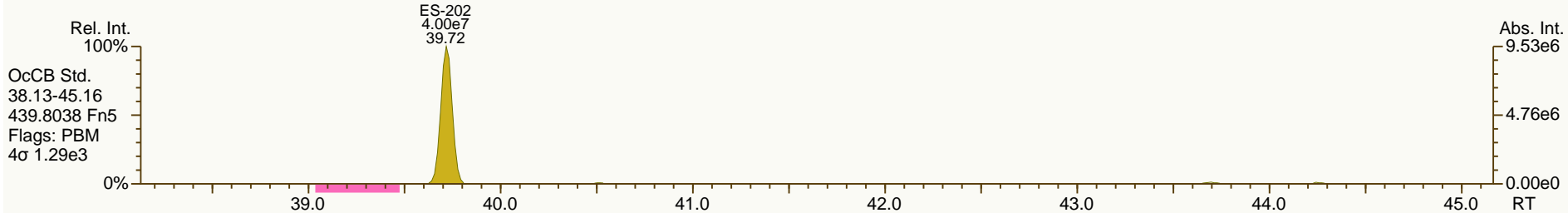
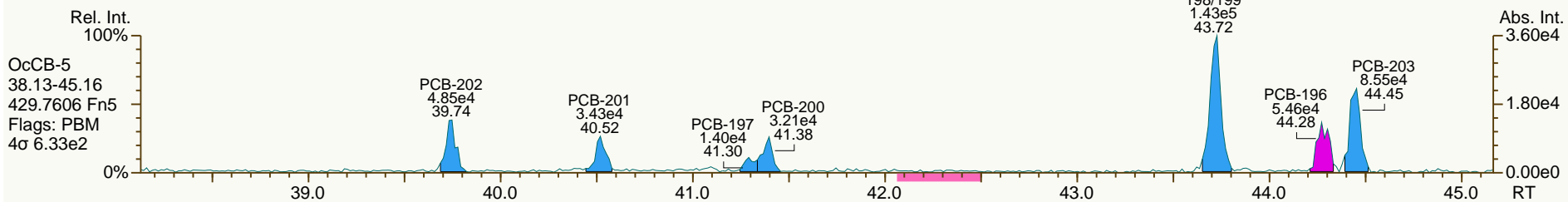
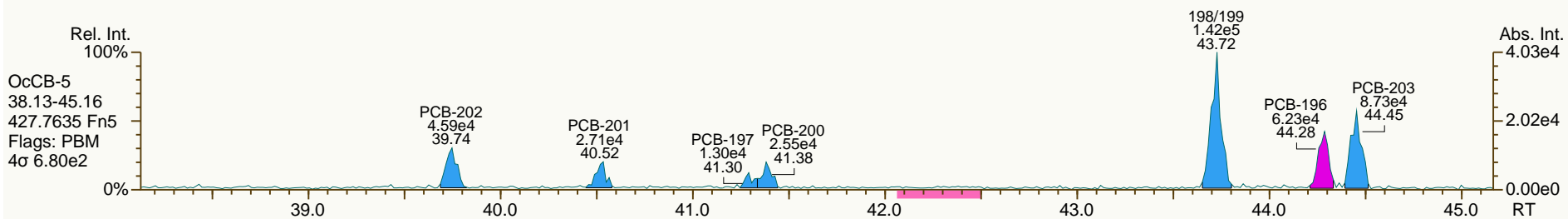
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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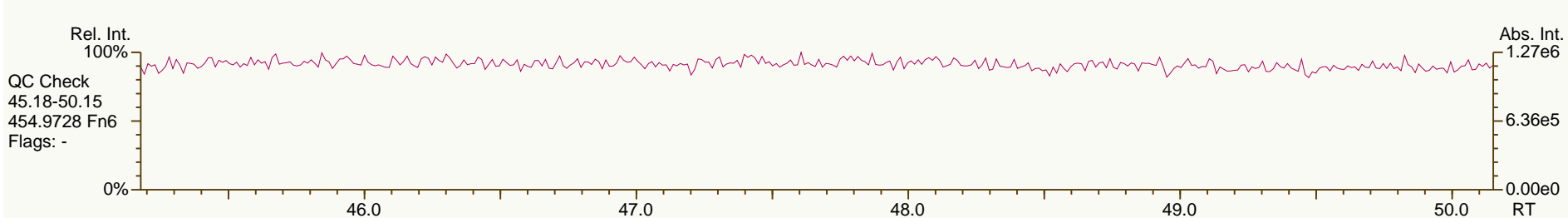
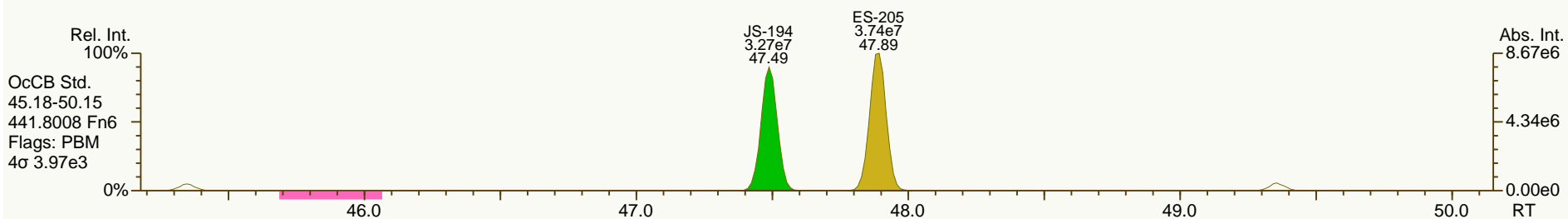
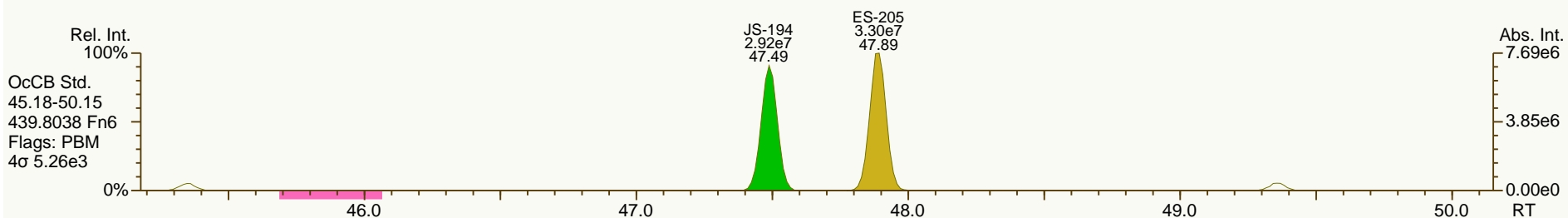
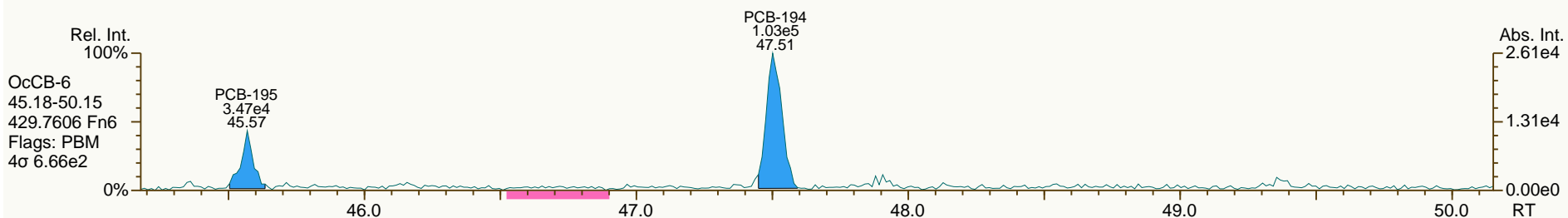
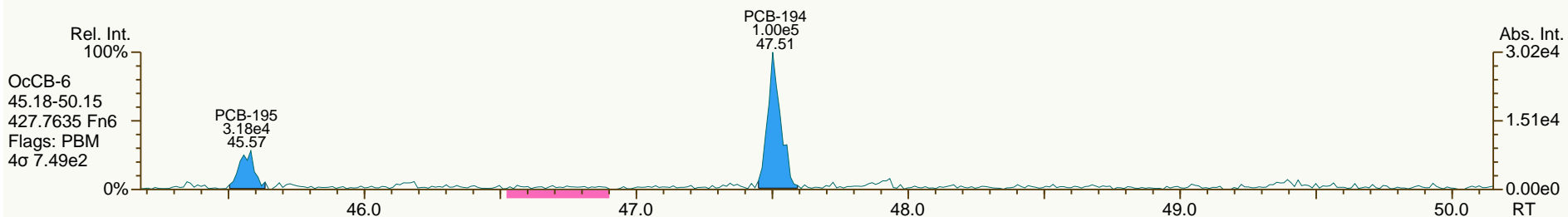
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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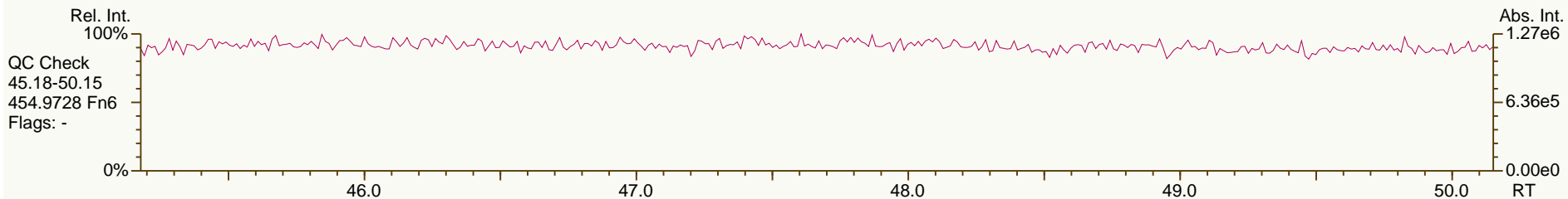
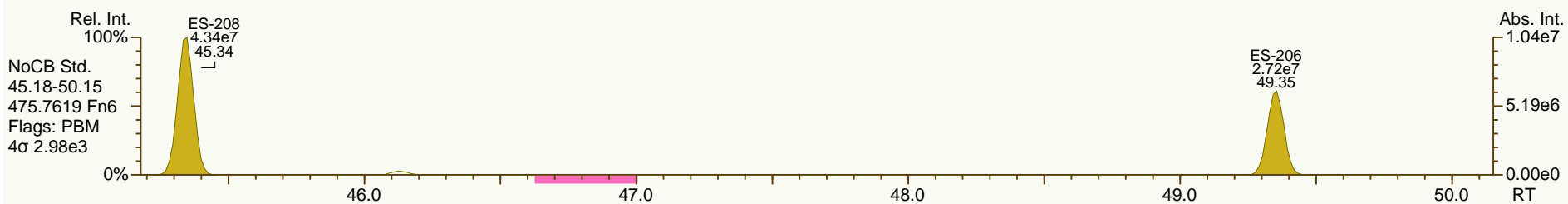
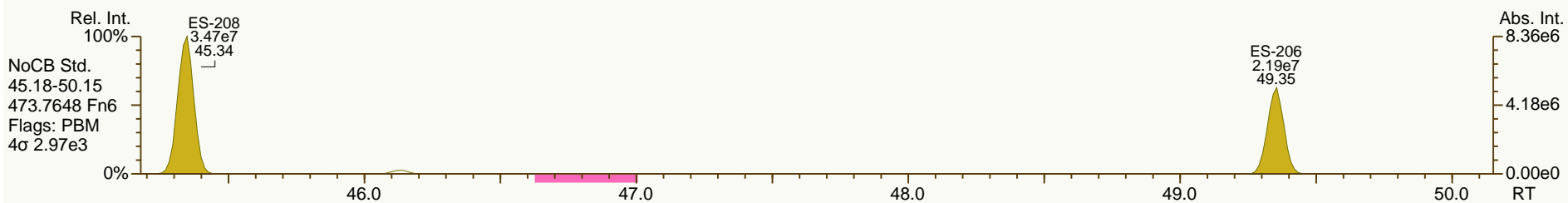
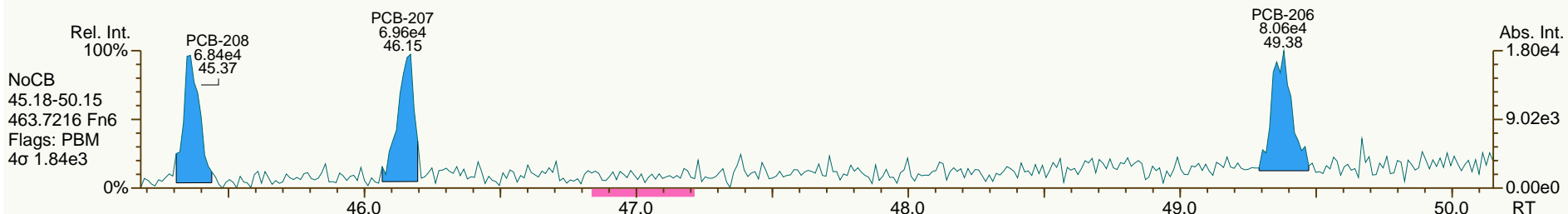
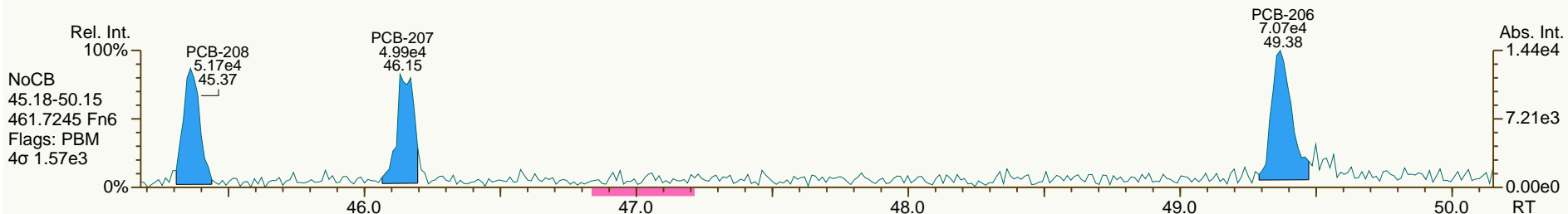
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SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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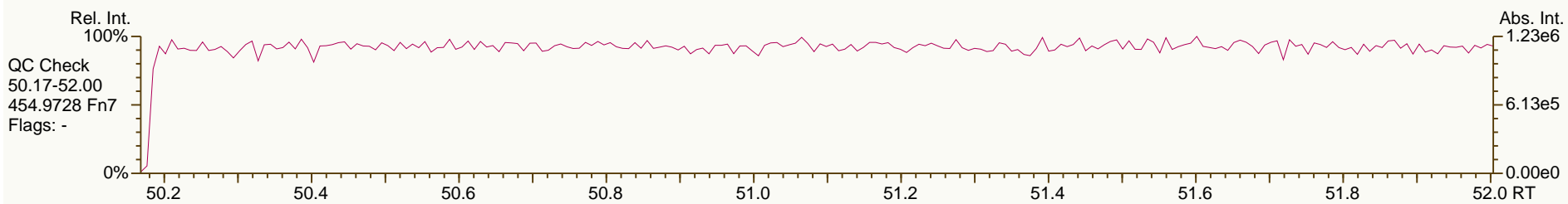
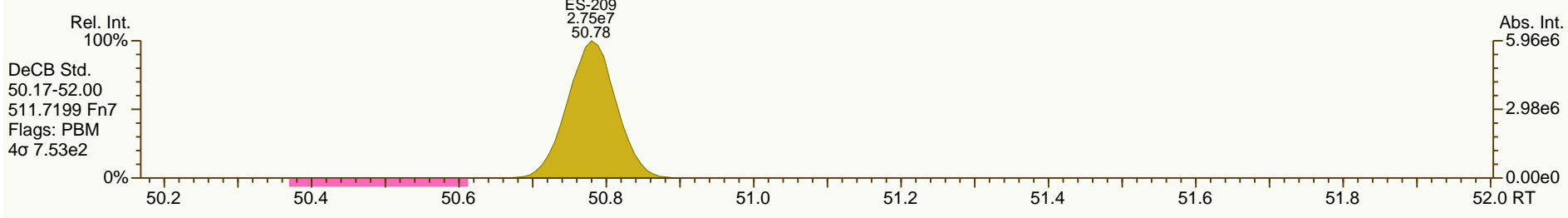
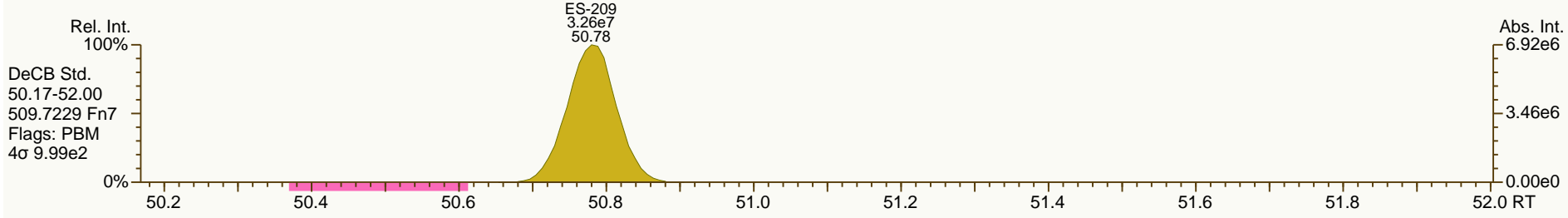
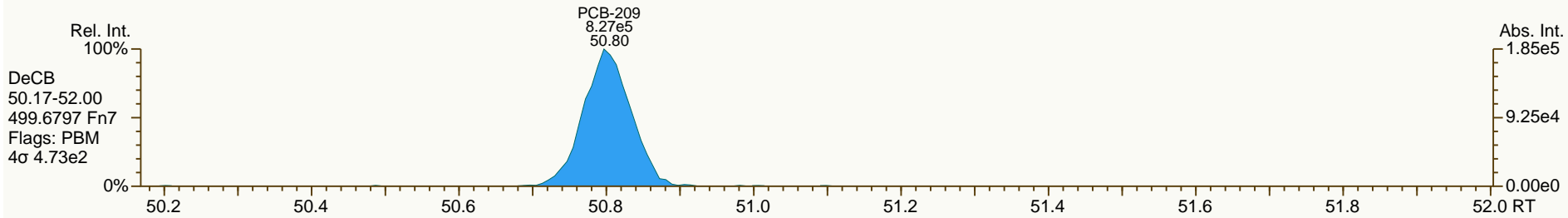
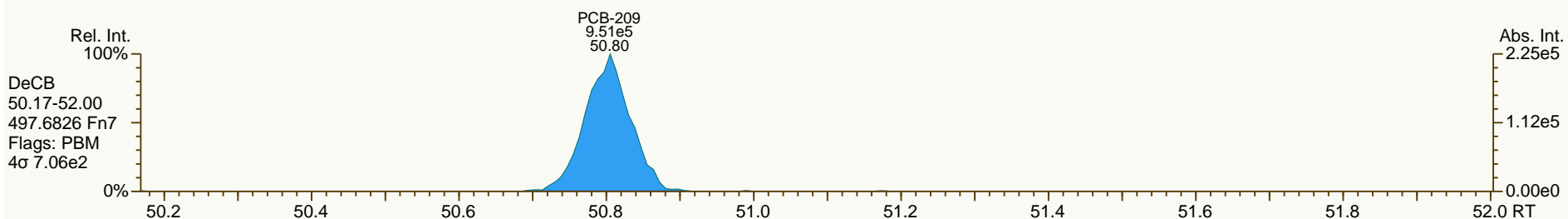




SGS ID: A6521\_11903\_PCB\_002-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB083-1SWMID-140318-D  
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Lab ID: A6521\_11903\_PCB\_003-RJ

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UTP: 31-Mar-2014 08:15 DES

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Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0006	0	1.18E+06	0.77	1.15	20.8	5.33E+03	1.04
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	5.33E+03	1.02
PCB-105 233'44'-PeCB	35.75		1.0006	1.0006	0	2.70E+06	0.61	1.11	55.6	3.28E+03	0.695
PCB-114 2344'5'-PeCB	35.20	J	1.0007	1.0005	-0.4	1.80E+05	0.65	1.20	3.48	3.28E+03	0.638
PCB-118 23'44'5'-PeCB	34.74		1.0006	1.0006	0	5.37E+06	0.63	1.19	105	3.28E+03	0.637
PCB-123 23'44'5'-PeCB	34.46	J	1.0006	1.0006	0	1.46E+05	0.63	1.21	2.82	3.28E+03	0.661
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	3.16E+03	0.752
PCB-156/157 ...-HxCB	40.89	J C	1.0005	1.0002	-0.7	3.40E+05	1.19	1.10	7.98	1.42E+03	0.479
PCB-167 23'44'55'-HxCB	39.92	J	1.0006	1.0004	-0.5	1.12E+05	1.29	1.16	2.42	1.42E+03	0.312
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.42E+03	0.342
PCB-189 233'44'55'-HpCB	45.74	J	1.0004	1.0005	+0.3	2.47E+04	0.89	1.07	0.628	1.77E+03	0.463
PCB-209 DeCB	50.80		1.0004	1.0004	0	3.06E+05	1.12	1.11	11.5	1.22E+03	0.53
ES PCB-1	11.86		0.7245	0.7246	+0.1	6.83E+07	3.23	1.19	36.9 %	15%	150%
ES PCB-3	14.15		0.8640	0.8641	+0.1	8.26E+07	3.32	1.09	48.9 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	4.76E+07	1.59	0.52	58.6 %	25%	150%
ES PCB-15	20.10		1.2271	1.2277	+0.7	1.34E+08	1.55	1.04	83 %	25%	150%
ES PCB-19	17.47		1.0673	1.0673	0	5.34E+07	1.05	0.51	67.9 %	25%	150%
ES PCB-37	26.42		1.0787	1.0791	+0.6	1.20E+08	1.10	1.66	86.4 %	25%	150%
ES PCB-54	20.38		0.8328	0.8324	-0.5	6.24E+07	0.79	0.86	86.5 %	25%	150%
ES PCB-77	32.75		1.3364	1.3375	+2.2	1.06E+08	0.81	1.38	91.1 %	25%	150%
ES PCB-81	32.27		1.3170	1.3180	+1.9	1.02E+08	0.79	1.37	89.4 %	25%	150%
ES PCB-104	25.35		0.8325	0.8320	-0.8	6.83E+07	1.61	0.80	112 %	25%	150%
ES PCB-105	35.73		1.1720	1.1725	+1.1	9.36E+07	1.59	1.20	102 %	25%	150%
ES PCB-114	35.19		1.1543	1.1547	+0.8	9.24E+07	1.58	1.22	99.6 %	25%	150%
ES PCB-118	34.72		1.1391	1.1395	+0.8	9.20E+07	1.57	1.16	104 %	25%	150%
ES PCB-123	34.44		1.1299	1.1303	+0.8	9.19E+07	1.55	1.19	102 %	25%	150%
ES PCB-126	38.34		1.2575	1.2582	+1.6	8.45E+07	1.53	1.03	108 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	6.61E+07	1.28	1.11	97.5 %	25%	150%
ES PCB-155	30.30		0.8114	0.8109	-0.9	9.00E+07	1.27	1.59	94.4 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0942	+0.7	1.67E+08	1.26	1.60	87 %	25%	150%
ES PCB-167	39.90		1.0677	1.0678	+0.2	8.59E+07	1.24	1.67	85.8 %	25%	150%
ES PCB-169	43.60		1.1664	1.1668	+1.0	8.35E+07	1.25	1.56	89.4 %	25%	150%
ES PCB-170	43.11		0.9081	0.9079	-0.5	5.26E+07	1.07	0.95	101 %	25%	150%
ES PCB-180	42.05		0.8856	0.8854	-0.5	6.27E+07	1.05	1.14	103 %	25%	150%
ES PCB-188	35.18		0.7413	0.7408	-1.1	6.47E+07	1.07	0.94	115 %	25%	150%
ES PCB-189	45.72		0.9629	0.9629	0	7.87E+07	1.01	1.58	99.3 %	25%	150%
ES PCB-202	39.71		0.8366	0.8363	-0.7	6.54E+07	0.91	0.97	112 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	5.79E+07	0.89	1.24	93 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	4.06E+07	0.80	0.83	97.9 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	6.29E+07	0.78	1.17	107 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	5.11E+07	1.18	1.11	92 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9339	0	1.45E+08	1.07	1.11	109 %	30%	135%
SS PCB-111	32.76		1.0750	1.0752	+0.4	9.80E+07	1.57	1.03	104 %	30%	135%
SS PCB-178	37.74		1.0100	1.0101	+0.2	4.35E+07	1.08	0.62	109 %	30%	135%
CS PCB-28	22.87		0.9339	0.9339	0	1.45E+08	1.07	1.85	93.8 %	30%	135%
CS PCB-111	32.76		1.0750	1.0752	+0.4	9.80E+07	1.57	1.22	105 %	30%	135%
CS PCB-178	37.74		1.0100	1.0101	+0.2	4.35E+07	1.08	0.58	125 %	30%	135%
JS PCB-9	16.37					1.55E+08	1.56				
JS PCB-52	24.48					8.38E+07	0.78				
JS PCB-101	30.47					7.61E+07	1.57				
JS PCB-138	37.37					6.00E+07	1.24				
JS PCB-194	47.49					5.01E+07	0.90				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
Mono-CBs						27	27	0.975			
Di-CBs						349	349	1.05			
Tri-CBs						1,730	1,730	1.23			
Tetra-CBs						2,660	2,660	0.726			
Penta-CBs						1,040	1,050	0.621			
Hexa-CBs						290	297	0.357			
Hepta-CBs						46.4	72.1	0.438			
Octa-CBs						10.2	17.3	0.495			
Nona-CBs						0	0	1.65			
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	5.74E+05	3.36	0.95	18.9	4.93E+03	1.01
PCB-2 3-MoCB	13.98	J	0.9880	0.9884	+0.3	9.11E+04	3.01	1.17	2.03	4.93E+03	0.812
PCB-3 4-MoCB	14.16	J B	1.0010	1.0009	-0.1	2.34E+05	3.34	1.01	6.04	4.93E+03	0.938
PCB-4 22'-DiCB	14.41		1.0011	1.0011	0	4.08E+06	1.58	1.23	149	4.50E+03	1.23
PCB-10 26'-DiCB	14.59	J	1.0135	1.0134	-0.1	1.51E+05	1.73	1.92	3.54	4.50E+03	0.789
PCB-9 25'-DiCB	16.39	J	1.0010	1.0011	+0.1	2.62E+05	1.49	0.97	4.33	5.84E+03	0.909
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	5.84E+03	0.801
PCB-6 23'-DiCB	16.78		1.0249	1.0250	+0.1	3.03E+06	1.66	1.03	47.3	5.84E+03	0.856
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.03	ND	5.84E+03	0.852
PCB-8 24'-DiCB	17.20		1.0506	1.0507	+0.1	4.25E+06	1.61	1.04	65.6	5.84E+03	0.848
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	5.84E+03	0.716
PCB-11 33'-DiCB	19.54	B	0.9721	0.9721	0	1.74E+06	1.65	1.06	26.3	5.84E+03	0.829
PCB-13/12 34'/34'-DiCB	19.81	J C	0.9866	0.9854	-1.4	1.12E+06	1.75	1.06	17	5.84E+03	0.833
PCB-15 44'-DiCB	20.11		1.0008	1.0007	-0.1	2.28E+06	1.57	1.02	35.9	5.84E+03	0.862
PCB-19 22'6-TrCB	17.49		1.0010	1.0011	+0.1	2.31E+06	1.09	1.15	81.2	3.91E+03	1.2
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	1.43E+07	1.06	1.56	368	3.91E+03	0.885
PCB-17 22'4-TrCB	19.65		1.1243	1.1245	+0.2	4.97E+06	1.04	1.33	150	3.91E+03	1.04
PCB-27 23'6-TrCB	19.84		1.1353	1.1356	+0.4	1.19E+06	1.08	1.82	26.4	3.91E+03	0.76
PCB-24 236-TrCB	19.97	J	1.1430	1.1426	-0.5	1.10E+05	1.19	1.74	2.56	3.91E+03	0.796
PCB-16 22'3-TrCB	20.07		1.1484	1.1488	+0.5	3.10E+06	1.09	0.99	126	3.91E+03	1.4

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.55		1.1758	1.1762	+0.5	7.54E+06	1.05	1.93	157	3.91E+03	0.714
PCB-34 23'5'-TrCB	21.70	J	0.8218	0.8213	-0.7	1.46E+05	1.16	1.25	2.09	7.63E+03	1.09
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	7.63E+03	1.07
PCB-26/29 23'5'/245-TrCB	22.11	C	0.8383	0.8369	-1.9	4.59E+06	1.00	1.28	64	7.63E+03	1.06
PCB-25 23'4-TrCB	22.33		0.8456	0.8452	-0.5	4.61E+06	1.02	1.26	65.2	7.63E+03	1.08
PCB-31 24'5-TrCB	22.61		0.8562	0.8558	-0.5	1.82E+07	1.00	1.34	242	7.63E+03	1.01
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8662	-1.1	1.88E+07	0.99	1.26	267	7.63E+03	1.08
PCB-21/33 234/23'4'-TrCB	23.10	C	0.8738	0.8743	+0.7	4.37E+06	1.00	1.28	60.8	7.63E+03	1.06
PCB-22 234'-TrCB	23.45		0.8880	0.8877	-0.4	5.09E+06	1.03	1.20	75.8	7.63E+03	1.13
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	7.63E+03	1.03
PCB-39 34'5-TrCB	25.19	J	0.9522	0.9535	+2.0	1.66E+05	0.97	1.36	2.19	7.63E+03	1
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	7.63E+03	1.12
PCB-35 33'4-TrCB	26.07	J EMPC	0.9871	0.9867	-0.6	2.98E+05	1.33	1.19	4.47	7.63E+03	1.14
PCB-37 344'-TrCB	26.45		1.0007	1.0009	+0.3	2.34E+06	1.01	1.08	38.8	7.63E+03	1.26
PCB-54 22'66'-TeCB	20.40	J	1.0010	1.0010	0	1.13E+05	0.77	1.35	2.88	1.88E+03	0.442
PCB-50/53 22'46/22'56'-TeCB	22.36	C	0.9145	0.9134	-1.5	3.90E+06	0.80	0.92	88.6	2.39E+03	0.557
PCB-45 22'36-TeCB	22.98		0.9383	0.9384	+0.1	2.69E+06	0.78	0.84	67.2	2.39E+03	0.612
PCB-51 22'46'-TeCB	23.05		0.9413	0.9413	0	2.41E+06	0.78	0.90	56.4	2.39E+03	0.574
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	1.16E+06	0.78	0.74	33	2.39E+03	0.698
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	1.93E+07	0.78	0.90	451	2.39E+03	0.572
PCB-73 23'5'6-TeCB	24.63	J	1.0062	1.0058	-0.6	6.44E+04	0.80	1.19	1.13	2.39E+03	0.43
PCB-43 22'35-TeCB	24.73		1.0101	1.0100	-0.1	5.18E+05	0.75	0.75	14.4	2.39E+03	0.681
PCB-69/49 23'46/22'45'-TeCB	24.95	C	1.0181	1.0190	+1.3	1.19E+07	0.79	1.10	228	2.39E+03	0.469
PCB-48 22'45-TeCB	25.21		1.0295	1.0296	+0.2	2.40E+06	0.78	0.90	55.7	2.39E+03	0.568
PCB-44/47/65 ...-TeCB	25.40	C	1.0384	1.0375	-1.4	1.79E+07	0.79	0.96	389	2.39E+03	0.533
PCB-59/62/75 ...-TeCB	25.69	J C	1.0496	1.0493	-0.5	1.63E+06	0.80	1.25	27.4	2.39E+03	0.41
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	3.91E+06	0.79	0.82	100	2.39E+03	0.627
PCB-41 22'34-TeCB	26.20		1.0698	1.0699	+0.2	6.55E+05	0.71	0.76	18	2.39E+03	0.674
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	7.72E+06	0.77	0.92	177	2.39E+03	0.561
PCB-64 234'6-TeCB	26.50		1.0819	1.0822	+0.5	8.65E+06	0.79	1.33	137	2.39E+03	0.387
PCB-72 23'55'-TeCB	27.21	J	0.8436	0.8433	-0.5	1.09E+05	0.77	1.26	1.81	5.33E+03	0.905
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	1.54E+06	0.85	1.35	23.9	5.33E+03	0.848
PCB-57 233'5-TeCB	27.85	J	0.8630	0.8629	-0.2	8.16E+04	0.73	1.22	1.4	5.33E+03	0.938
PCB-58 233'5'-TeCB	NotFnd		0.8693	-		0.00E+00		1.27	ND	5.33E+03	0.898
PCB-67 23'45-TeCB	28.21	J	0.8741	0.8740	-0.2	3.52E+05	0.72	1.33	5.56	5.33E+03	0.863
PCB-63 234'5-TeCB	28.43	J	0.8811	0.8809	-0.3	6.39E+05	0.73	1.40	9.59	5.33E+03	0.819
PCB-61/70/74/76 ...-TeCB	28.73	C	0.8902	0.8902	0	2.08E+07	0.80	1.25	350	5.33E+03	0.917
PCB-66 23'44'-TeCB	29.00		0.8989	0.8986	-0.5	1.30E+07	0.80	1.18	231	5.33E+03	0.971
PCB-55 233'4-TeCB	29.15	J EMPC	0.9034	0.9032	-0.3	1.59E+05	0.91	1.18	2.83	5.33E+03	0.968
PCB-56 233'4'-TeCB	29.58		0.9169	0.9167	-0.4	6.61E+06	0.81	1.17	119	5.33E+03	0.981
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	2.83E+06	0.83	1.20	49.4	5.33E+03	0.953
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	5.33E+03	0.831
PCB-79 33'45'-TeCB	31.43	J EMPC	0.9737	0.9741	+0.8	1.21E+05	0.93	1.37	1.85	5.33E+03	0.834
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	5.33E+03	0.998
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.60E+03	0.344
PCB-96 22'366'-PeCB	25.69	J EMPC	1.0134	1.0134	0	1.59E+05	0.72	1.18	4.22	1.60E+03	0.416
PCB-103 22'45'6-PeCB	27.38	J EMPC	0.8989	0.8985	-0.7	5.60E+04	0.83	0.93	1.41	3.28E+03	0.859
PCB-94 22'356'-PeCB	27.57	J	0.9051	0.9049	-0.3	5.73E+04	0.68	0.79	1.7	3.28E+03	1.02

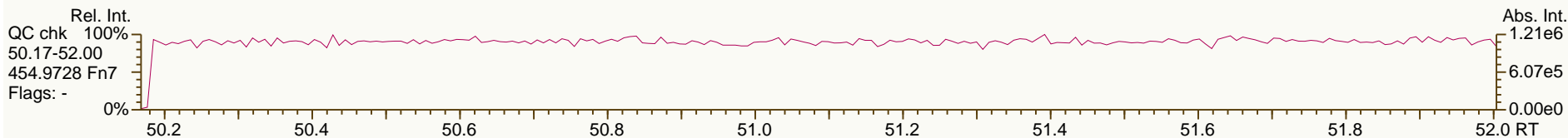
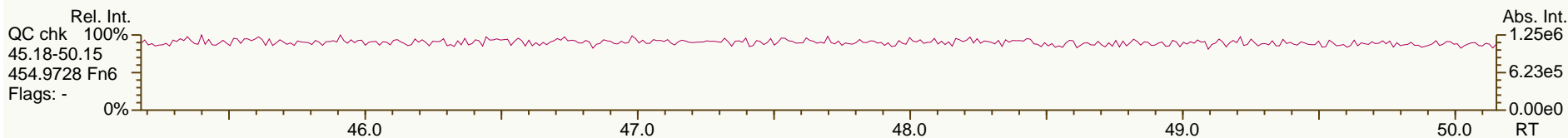
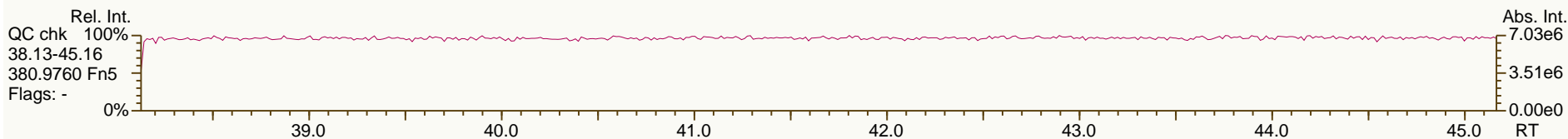
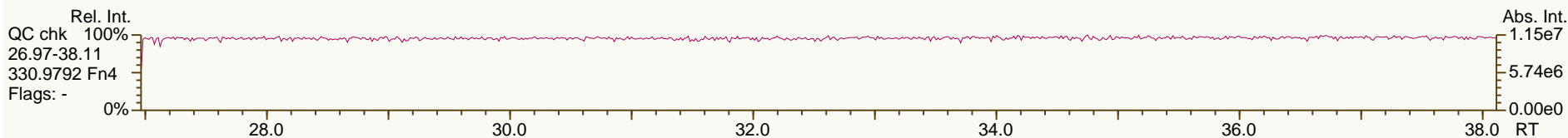
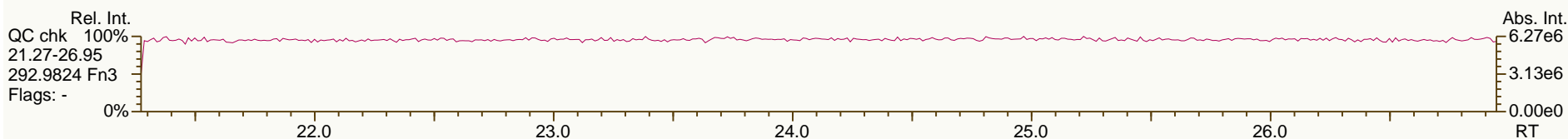
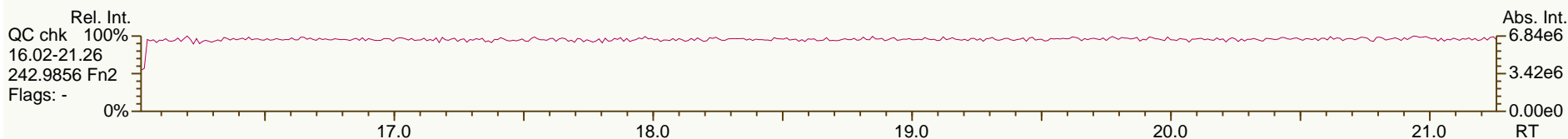
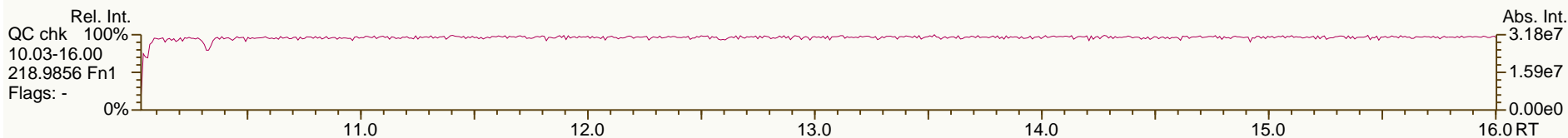
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9174	-0.3	4.73E+06	0.62	0.86	128	3.28E+03	0.929
PCB-100/93 22'44'6/22'356-PeCB	28.17	J C	0.9246	0.9244	-0.3	1.06E+05	0.64	0.86	2.89	3.28E+03	0.934
PCB-102 22'456'-PeCB	28.27	J	0.9282	0.9279	-0.5	3.58E+05	0.56	1.00	8.36	3.28E+03	0.8
PCB-98 22'34'6'-PeCB	NotFnd		0.9305	-		0.00E+00		0.74	ND	3.28E+03	1.09
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	3.28E+03	1.03
PCB-91 22'34'6-PeCB	28.71		0.9424	0.9423	-0.2	1.17E+06	0.59	0.92	29.8	3.28E+03	0.871
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	1.82E+06	0.63	0.71	59.6	3.28E+03	1.12
PCB-89 22'346'-PeCB	29.32	J	0.9624	0.9623	-0.2	1.76E+05	0.57	0.76	5.43	3.28E+03	1.06
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	3.28E+03	0.67
PCB-92 22'355'-PeCB	29.99		0.9841	0.9841	0	9.50E+05	0.64	0.81	27.4	3.28E+03	0.988
PCB-113/90/101 ...-PeCB	30.49	C	0.9999	1.0007	+1.5	5.60E+06	0.61	0.96	136	3.28E+03	0.834
PCB-83 22'33'5-PeCB	30.90		1.0142	1.0142	0	3.55E+05	0.59	0.70	11.9	3.28E+03	1.15
PCB-99 22'44'5-PeCB	31.00		1.0173	1.0173	0	3.02E+06	0.63	0.90	78.8	3.28E+03	0.893
PCB-112 233'56-PeCB	31.10	J	1.0206	1.0207	+0.2	4.92E+04	0.53	1.17	0.986	3.28E+03	0.686
PCB-108/119/86/97/125...-PeCB	31.47	C	1.0320	1.0329	+1.7	4.87E+06	0.60	0.98	117	3.28E+03	0.821
PCB-117 234'56-PeCB	NotFnd		1.0495	-		0.00E+00		1.18	ND	3.28E+03	0.681
PCB-116/85 23456/22'344'-PeCB	32.05	C	1.0525	1.0518	-1.3	1.66E+06	0.61	0.88	44.4	3.28E+03	0.915
PCB-110 233'4'6-PeCB	32.19		1.0561	1.0565	+0.8	8.37E+06	0.63	1.10	179	3.28E+03	0.731
PCB-115 2344'6-PeCB	NotFnd		1.0590	-		0.00E+00		1.16	ND	3.28E+03	0.693
PCB-82 22'33'4-PeCB	32.47		1.0655	1.0657	+0.4	8.37E+05	0.62	0.69	28.5	3.28E+03	1.16
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	3.28E+03	0.664
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.28E+03	0.655
PCB-107/124 ...-PeCB	34.15	J EMPC C	0.9916	0.9916	0	2.27E+05	0.72	1.11	4.79	3.28E+03	0.724
PCB-109 233'46-PeCB	34.36	J	0.9976	0.9977	+0.2	4.89E+05	0.59	1.24	9.23	3.28E+03	0.647
PCB-106 233'45-PeCB	34.55	J EMPC	1.0038	1.0033	-1.0	5.47E+04	0.51	1.11	1.15	3.28E+03	0.723
PCB-122 233'4'5'-PeCB	35.04	J	1.0091	1.0091	0	1.19E+05	0.53	1.03	2.67	3.28E+03	0.741
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	3.28E+03	0.693
PCB-155 22'44'66'-HxCB	30.32	J EMPC	1.0007	1.0005	-0.4	1.69E+04	0.89	1.26	0.321	1.51E+03	0.297
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.14	ND	1.51E+03	0.329
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.51E+03	0.324
PCB-136 22'33'66'-HxCB	30.93	J	1.0207	1.0209	+0.4	4.22E+05	1.21	1.06	9.51	1.51E+03	0.354
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.51E+03	0.342
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.51E+03	0.423
PCB-151/135 ...-HxCB	32.99	J B C	1.0886	1.0887	+0.2	6.39E+05	1.26	1.09	19	1.51E+03	0.444
PCB-154 22'44'56'-HxCB	33.20	J	1.0954	1.0957	+0.6	2.80E+04	1.25	1.29	0.709	1.51E+03	0.377
PCB-144 22'345'6-HxCB	33.47	J	1.1041	1.1044	+0.6	1.00E+05	1.36	1.14	2.87	1.51E+03	0.426
PCB-147/149 ...-HxCB	33.77	C	1.1141	1.1143	+0.4	1.66E+06	1.25	1.11	48.5	1.51E+03	0.435
PCB-134 22'33'56-HxCB	33.95	J EMPC	1.1199	1.1203	+0.8	1.13E+05	1.54	0.93	3.94	1.51E+03	0.52
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.02	ND	1.51E+03	0.475
PCB-139/140 ...-HxCB	34.29	J C	1.1312	1.1314	+0.4	5.78E+04	1.39	1.13	1.66	1.51E+03	0.429
PCB-131 22'33'46-HxCB	34.47	J EMPC	1.1369	1.1374	+1.0	3.98E+04	0.98	0.98	1.33	1.51E+03	0.498
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.51E+03	0.511
PCB-132 22'33'46'-HxCB	34.84		1.1494	1.1499	+1.0	8.00E+05	1.28	0.99	26.3	1.51E+03	0.49
PCB-133 22'33'55'-HxCB	35.25	J EMPC	1.1626	1.1633	+1.5	4.21E+04	1.48	1.05	1.31	1.51E+03	0.463
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.51E+03	0.359
PCB-146 22'34'55'-HxCB	35.80	J	0.9582	0.9581	-0.2	3.38E+05	1.29	1.15	9.56	1.51E+03	0.422
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.51E+03	0.329
PCB-153/168 ...-HxCB	36.33	C	0.9728	0.9721	-1.5	1.96E+06	1.28	1.42	45	1.51E+03	0.343

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.49		0.9766	0.9767	+0.2	3.69E+05	1.28	1.04	11.6	1.51E+03	0.468
PCB-130 22'33'45'-HxCB	36.84	J	0.9859	0.9858	-0.2	1.43E+05	1.23	0.92	5.05	1.51E+03	0.528
PCB-137 22'344'5-HxCB	37.03	J	0.9911	0.9911	0	1.28E+05	1.14	1.11	3.72	1.51E+03	0.435
PCB-164 233'4'5'6-HxCB	37.12	J	0.9933	0.9934	+0.2	2.21E+05	1.24	1.43	5.04	1.51E+03	0.34
PCB-163/138/129 ...-HxCB	37.39	C	1.0011	1.0007	-0.9	2.51E+06	1.26	1.15	71.2	1.51E+03	0.424
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.51E+03	0.349
PCB-158 233'44'6-HxCB	37.73	J	1.0096	1.0096	0	3.42E+05	1.25	1.53	7.25	1.51E+03	0.317
PCB-128/166 ...-HxCB	38.47	J C	0.9641	0.9642	+0.2	4.26E+05	1.35	0.90	11.8	1.42E+03	0.401
PCB-159 233'455'-HxCB	39.26	J	0.9844	0.9839	-1.2	2.21E+04	1.43	1.10	0.502	1.42E+03	0.329
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.10	ND	1.42E+03	0.328
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.10E+03	0.307
PCB-179 22'33'566'-HpCB	35.48	J	1.0086	1.0086	0	1.46E+05	0.89	1.13	4.3	1.10E+03	0.346
PCB-184 22'344'66'-HpCB	35.95	J	1.0216	1.0218	+0.4	1.69E+04	1.08	1.06	0.533	1.10E+03	0.369
PCB-176 22'33'466'-HpCB	36.24	J EMPC	1.0300	1.0301	+0.2	3.59E+04	0.74	1.15	1.04	1.10E+03	0.34
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.10E+03	0.364
PCB-178 22'33'55'6-HpCB	37.77	J EMPC	1.0733	1.0736	+0.7	3.87E+04	1.25	0.77	1.66	1.10E+03	0.503
PCB-175 22'33'45'6-HpCB	NotFnd		1.0887	-		0.00E+00		1.07	ND	1.48E+03	0.468
PCB-187 22'34'55'6-HpCB	38.54		1.0952	1.0954	+0.5	3.85E+05	1.06	1.15	11.5	1.48E+03	0.436
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.48E+03	0.426
PCB-183 22'344'5'6-HpCB	39.06	J	1.1101	1.1102	+0.2	1.51E+05	1.01	1.20	4.33	1.48E+03	0.42
PCB-185 22'3455'6-HpCB	39.13	J	1.1125	1.1122	-0.7	4.55E+04	0.98	1.10	1.41	1.48E+03	0.454
PCB-174 22'33'456'-HpCB	39.26	J EMPC	1.1156	1.1159	+0.7	2.20E+05	1.25	0.94	8.03	1.48E+03	0.536
PCB-177 22'33'45'6'-HpCB	39.63	J EMPC	1.1262	1.1265	+0.7	1.36E+05	0.87	0.92	5.05	1.48E+03	0.544
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.48E+03	0.469
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1418	+1.2	8.35E+04	1.09	0.94	3.05	1.48E+03	0.535
PCB-172 22'33'455'-HpCB	41.51	J	0.9080	0.9078	-0.5	4.08E+04	1.15	0.98	1.43	1.48E+03	0.513
PCB-192 233'455'6-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.48E+03	0.39
PCB-180/193 ...-HpCB	42.06	J C	0.9194	0.9199	+1.3	6.81E+05	0.99	1.24	18.7	1.48E+03	0.403
PCB-191 233'44'5'6-HpCB	42.37	J	0.9266	0.9266	0	2.03E+04	1.13	1.38	0.503	1.48E+03	0.363
PCB-170 22'33'44'5-HpCB	43.14	J EMPC	0.9434	0.9435	+0.3	2.35E+05	1.20	1.13	8.47	1.48E+03	0.56
PCB-190 233'44'56-HpCB	43.59	J EMPC	0.9533	0.9533	0	5.62E+04	0.74	1.60	1.44	1.48E+03	0.398
PCB-202 22'33'55'66'-OoCB	39.73	J EMPC	1.0005	1.0005	0	4.11E+04	0.72	1.05	1.28	1.34E+03	0.427
PCB-201 22'33'45'66'-OoCB	40.52	J EMPC	1.0203	1.0204	+0.2	2.91E+04	0.72	1.14	0.836	1.34E+03	0.393
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.34E+03	0.418
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.10	ND	1.34E+03	0.408
PCB-200 22'33'4566'-OoCB	41.37	J	1.0418	1.0417	-0.2	2.14E+04	0.97	1.08	0.649	1.34E+03	0.414
PCB-198/199 ...-OoCB	43.72	J C	1.1001	1.1008	+1.8	1.10E+05	1.01	0.74	4.85	1.34E+03	0.604
PCB-196 22'33'44'56'-OoCB	44.28	J	1.1146	1.1149	+0.8	4.80E+04	0.78	0.80	1.98	1.34E+03	0.565
PCB-203 22'344'55'6-OoCB	44.44	J	1.1188	1.1190	+0.5	6.95E+04	0.81	0.83	2.74	1.34E+03	0.539
PCB-195 22'33'44'56-OoCB	45.56	J EMPC	0.9516	0.9515	-0.3	2.10E+04	1.21	0.72	1.08	1.55E+03	0.826
PCB-194 22'33'44'55'-OoCB	47.51	J EMPC	0.9921	0.9921	0	8.40E+04	1.03	0.81	3.87	1.55E+03	0.74
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.55E+03	0.563
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.98E+03	1.27
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.18	ND	3.98E+03	1.22
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.98E+03	2.03

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Instr: [ILM] AutoSpec-Premier MM7

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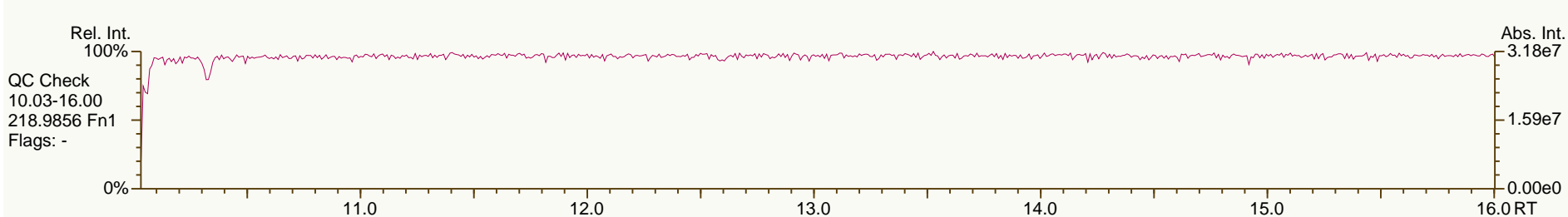
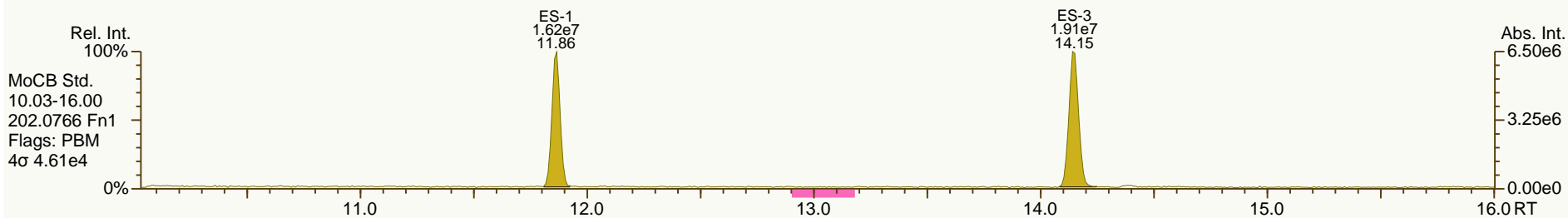
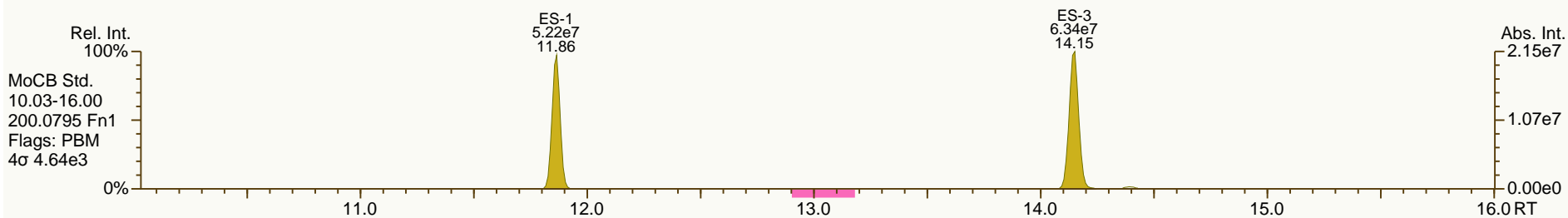
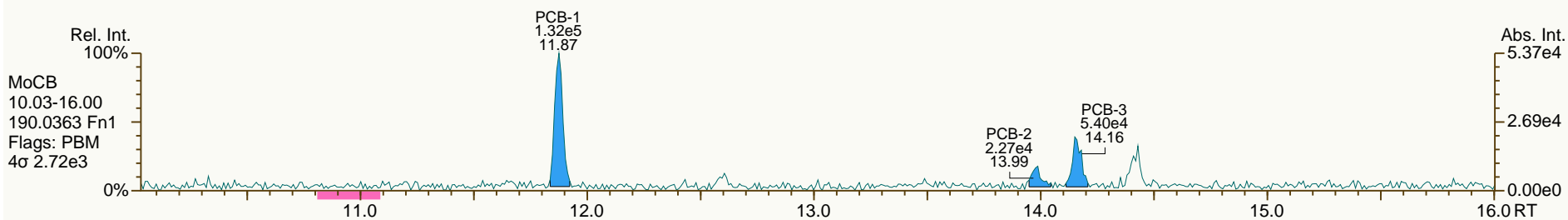
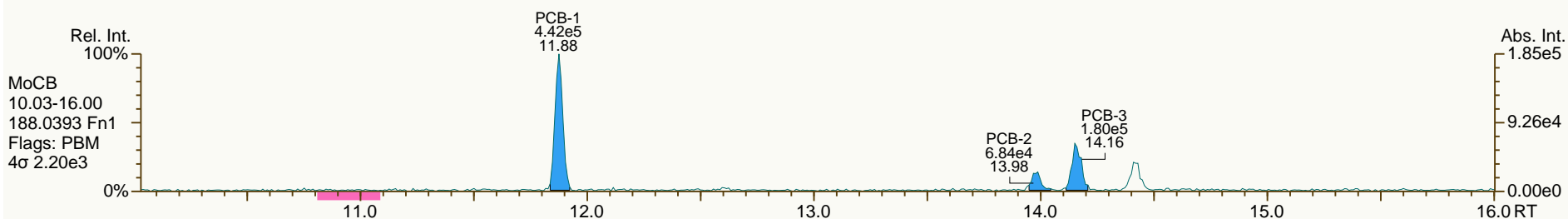
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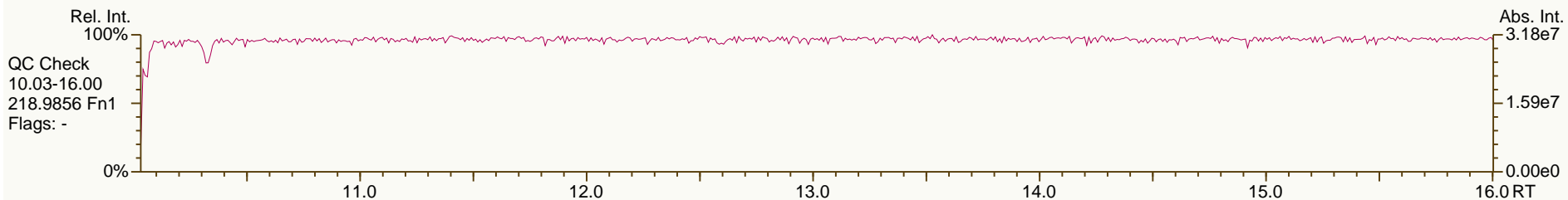
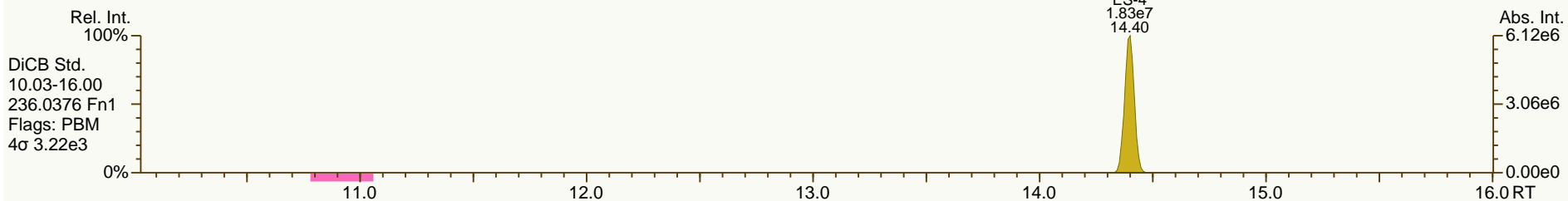
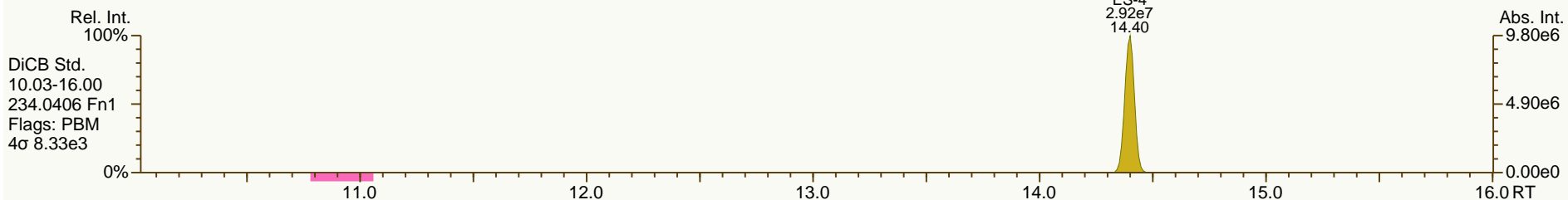
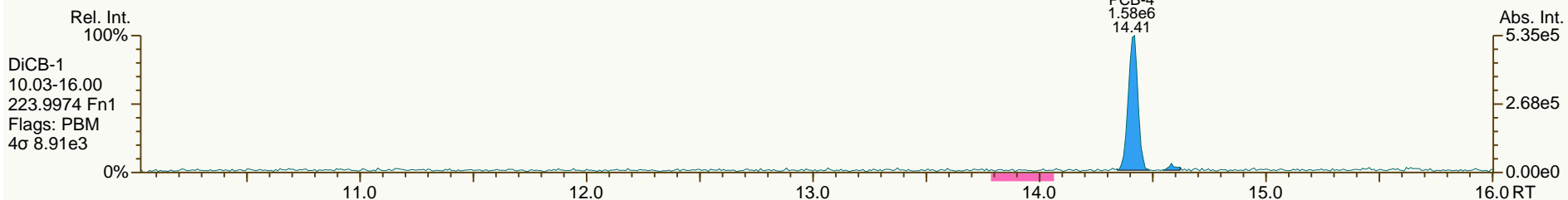
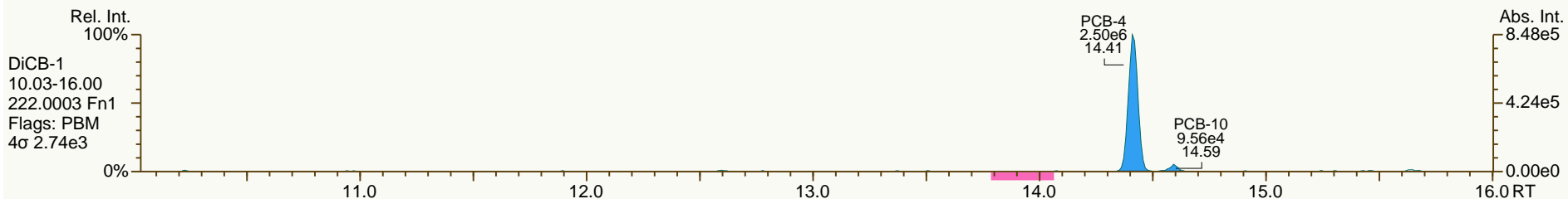




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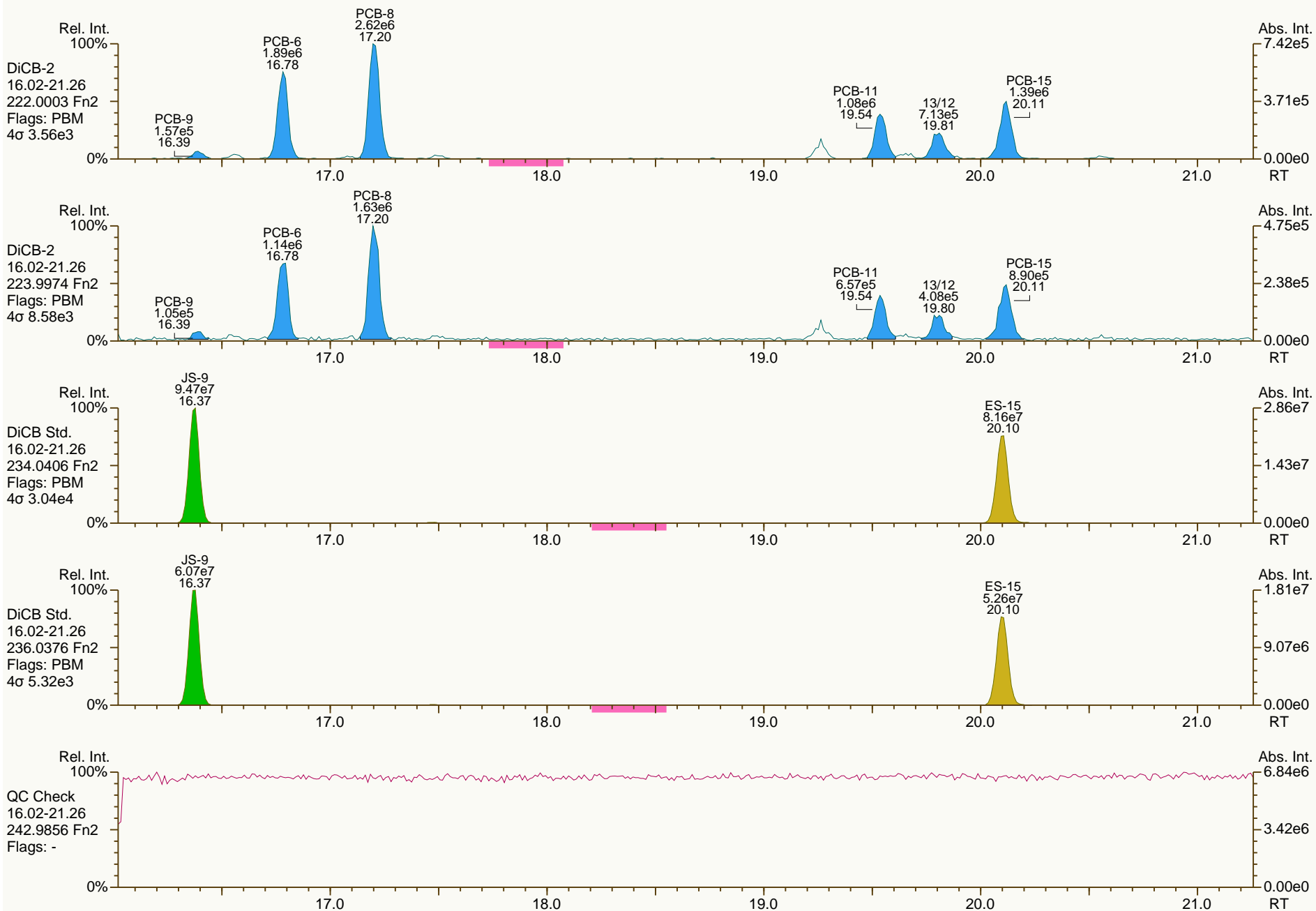
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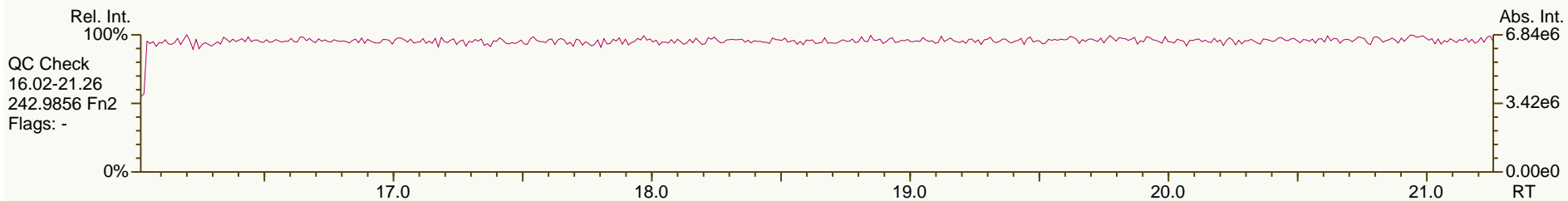
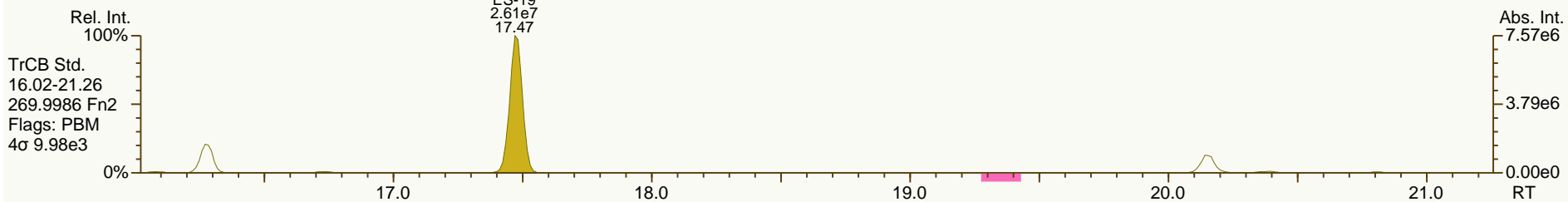
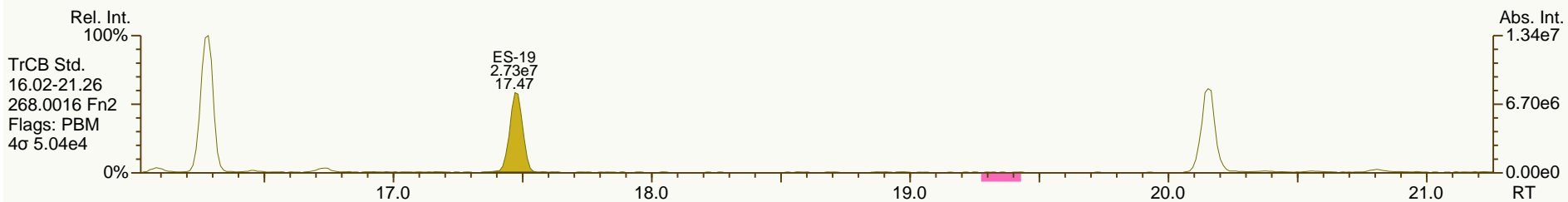
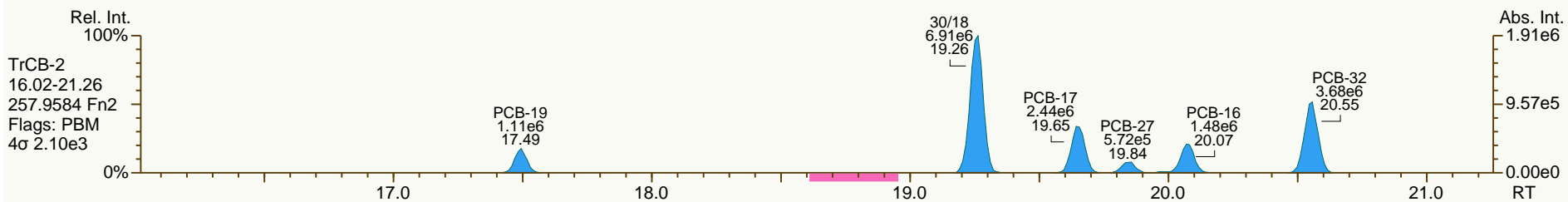
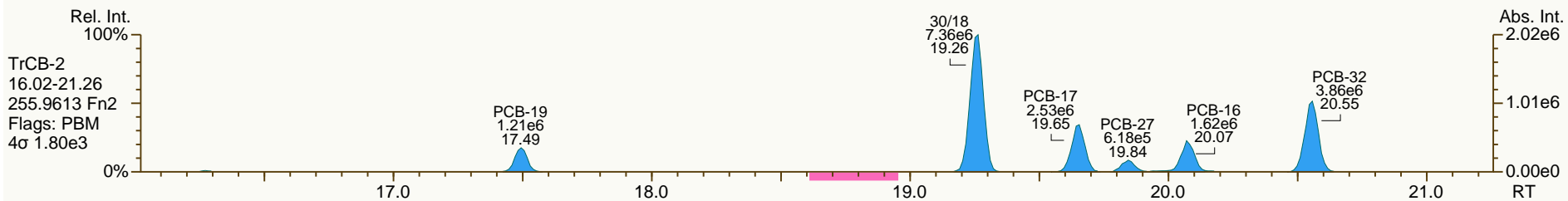
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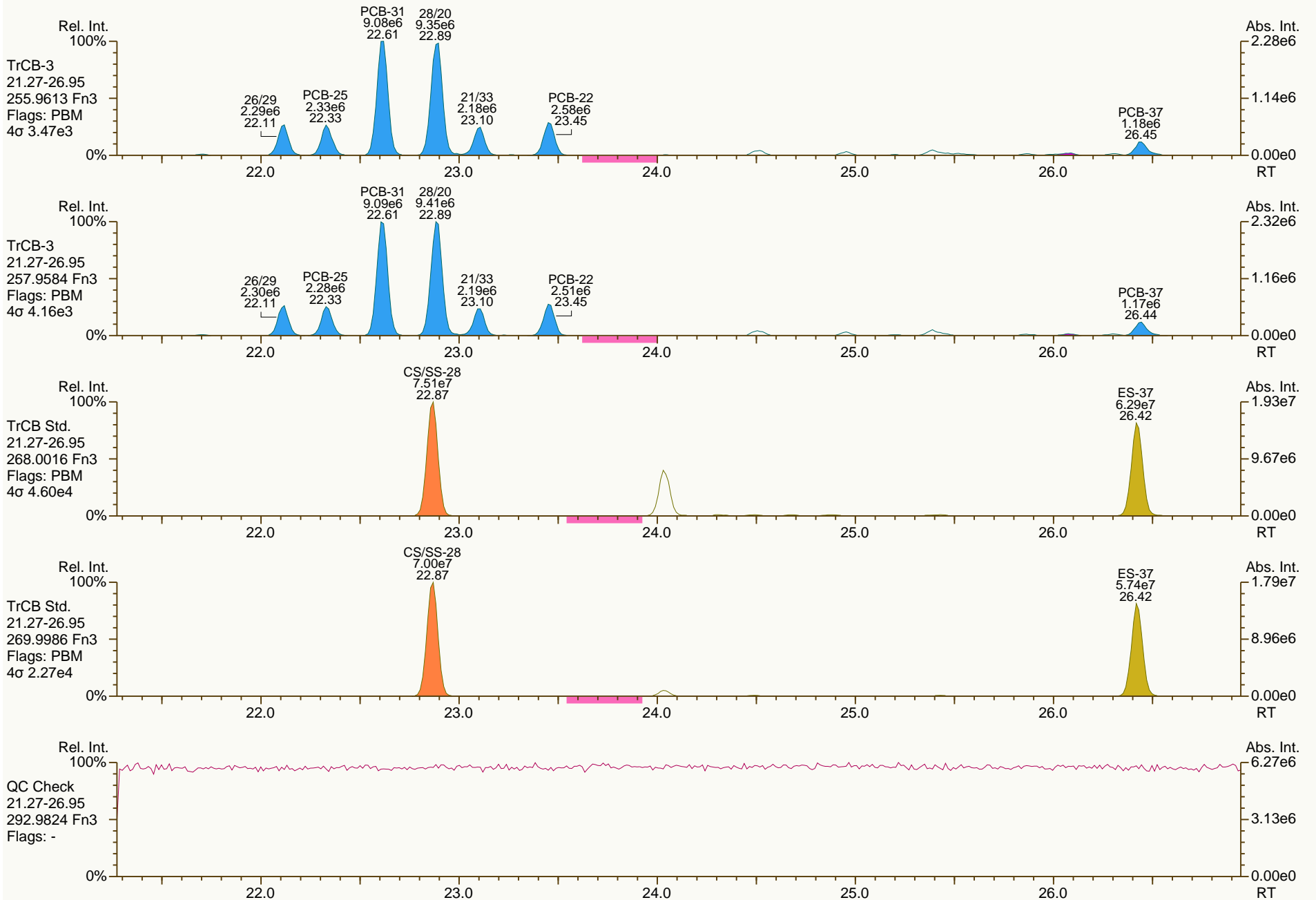
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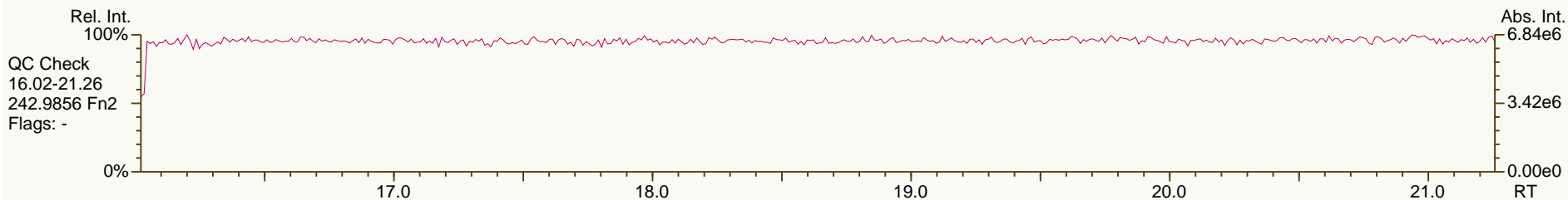
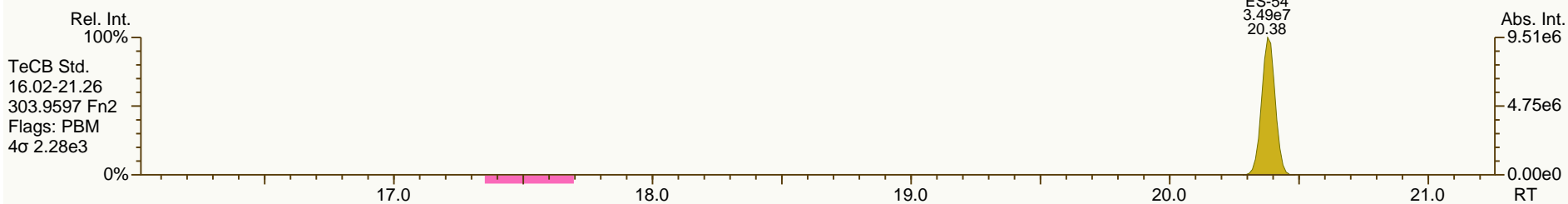
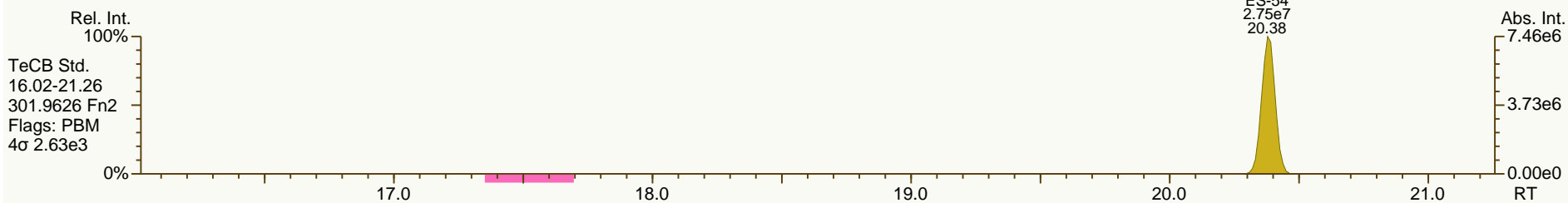
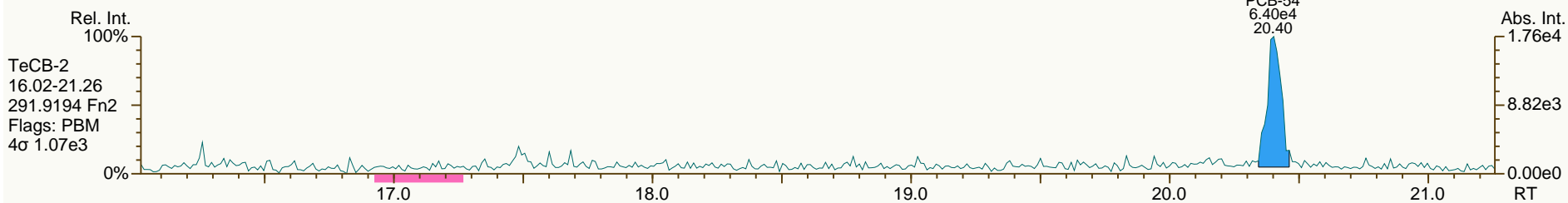
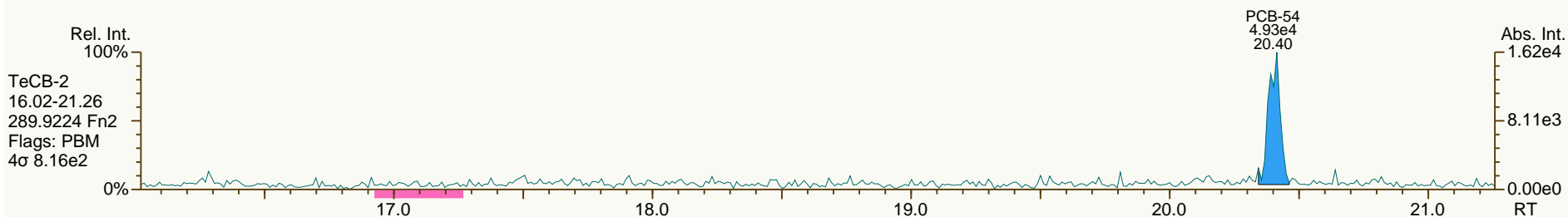
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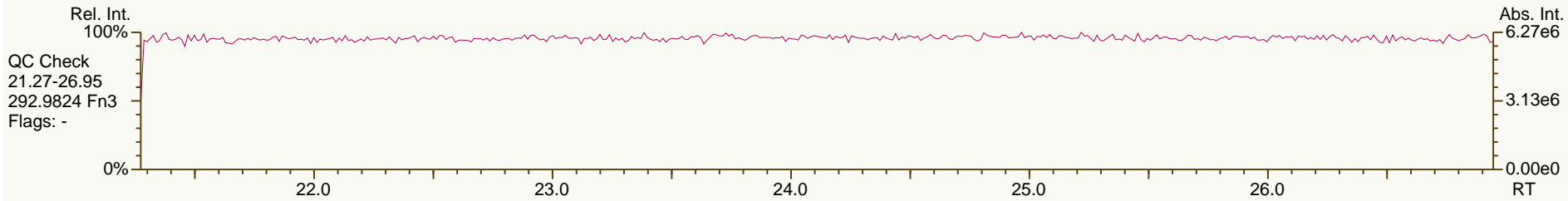
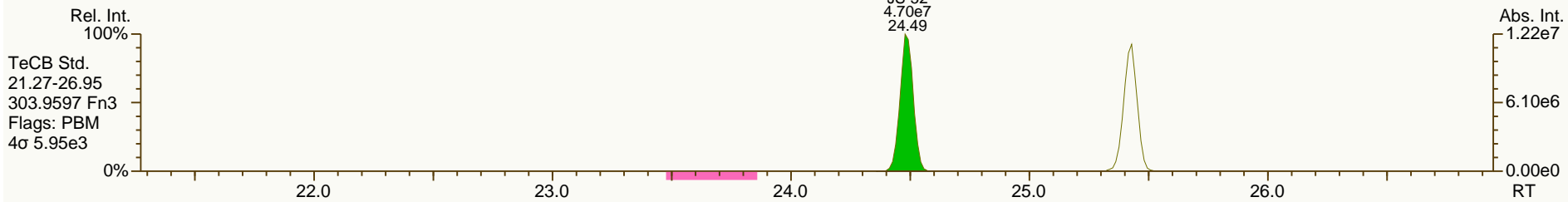
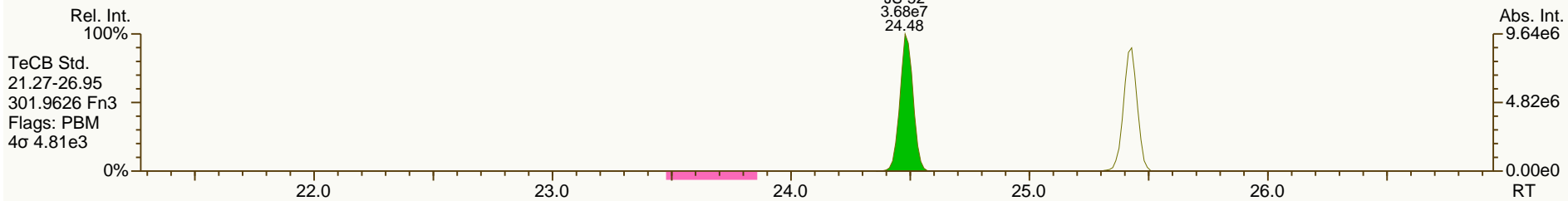
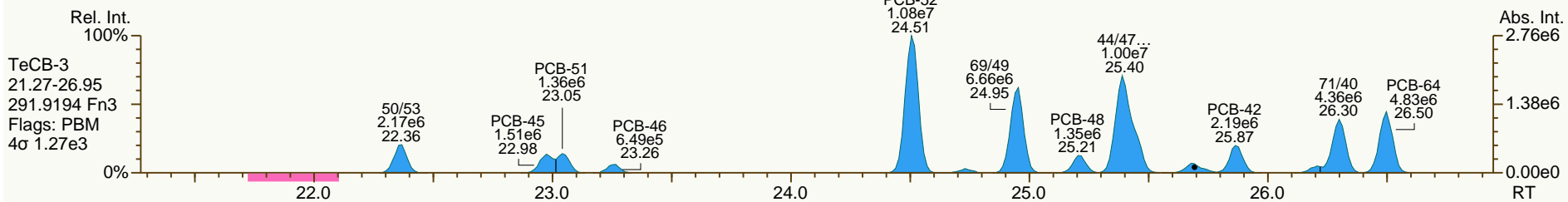
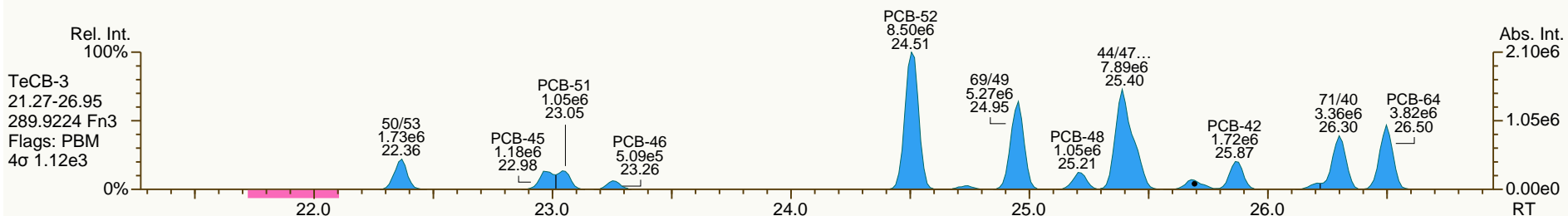
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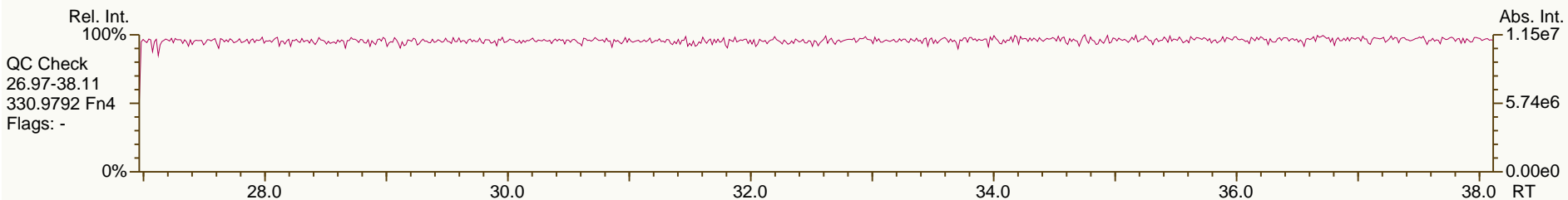
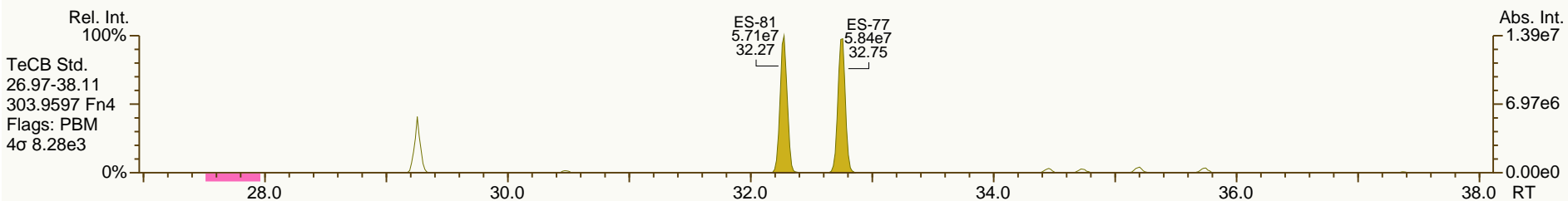
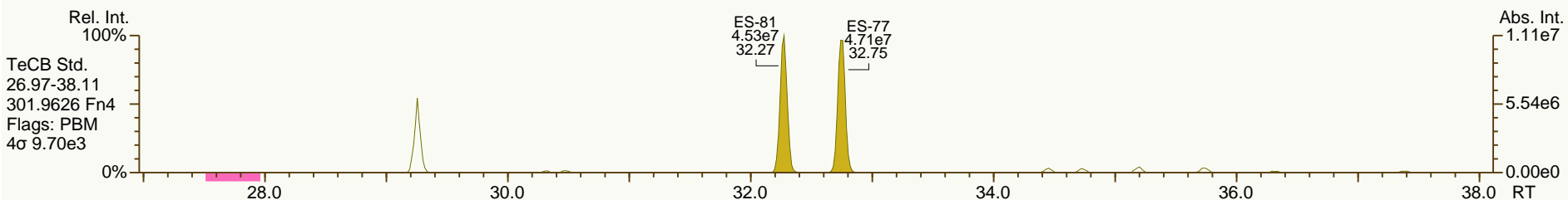
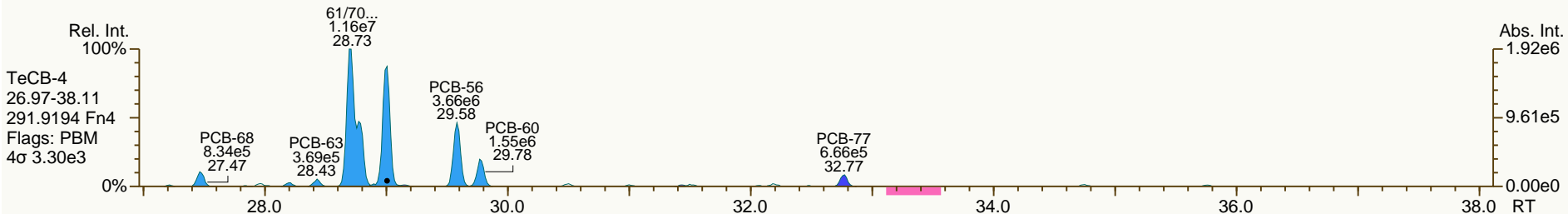
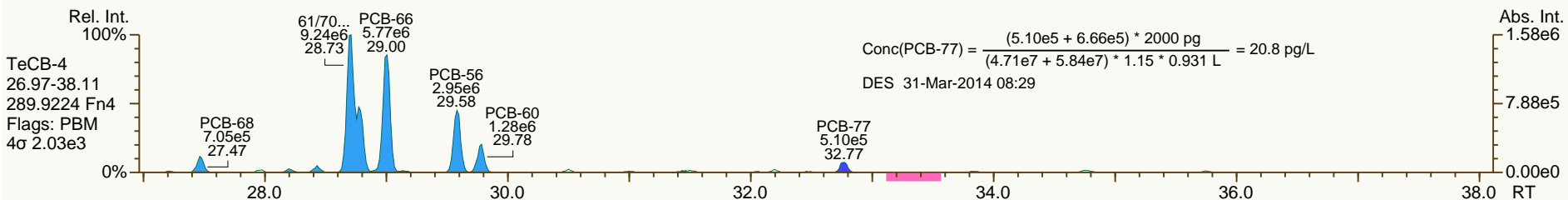
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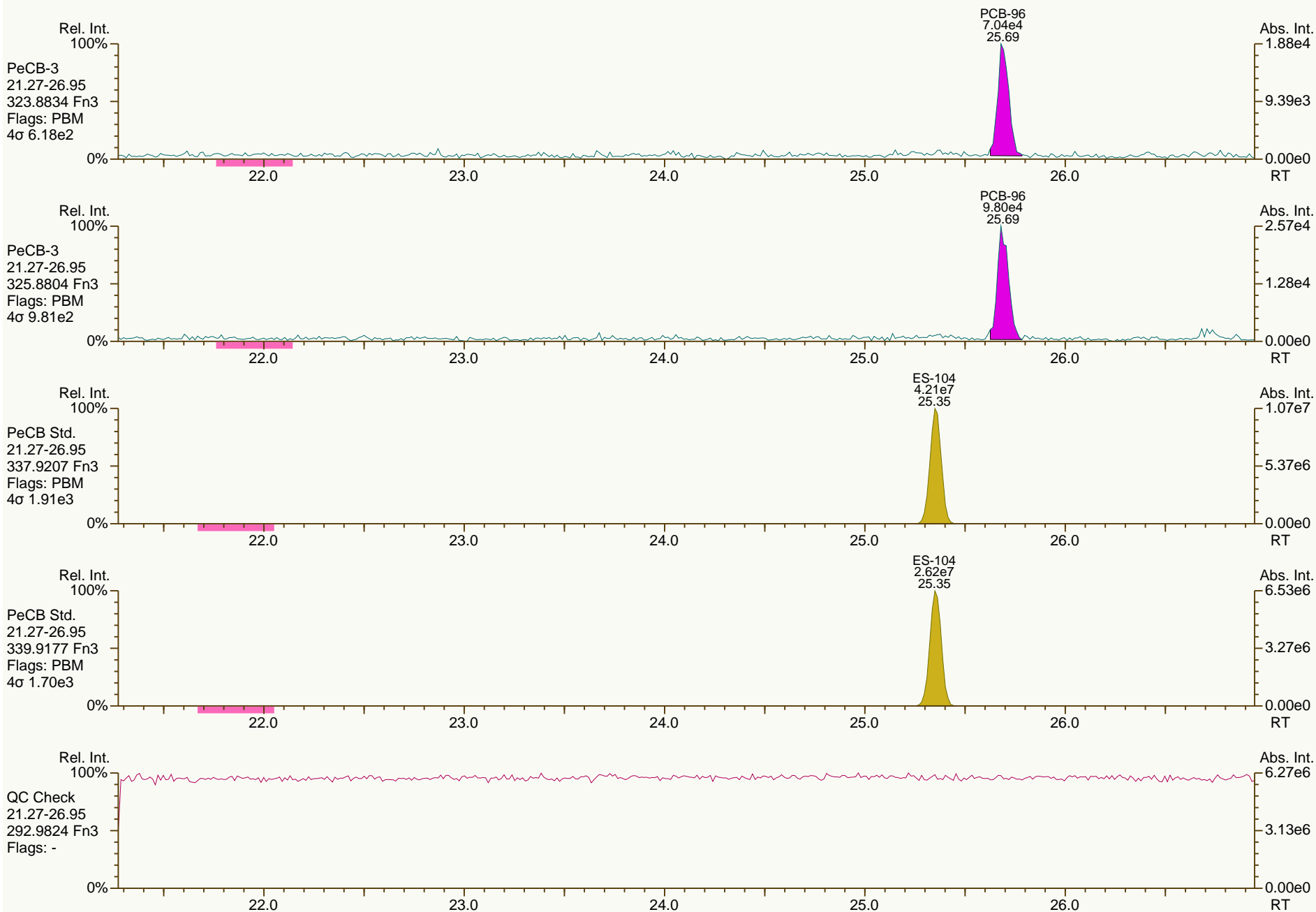
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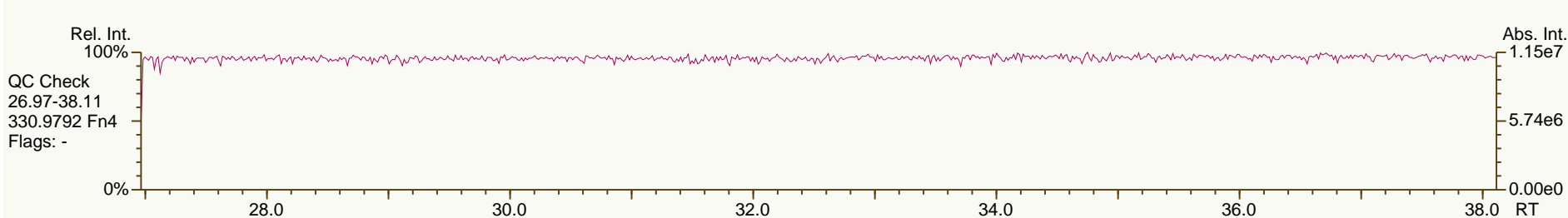
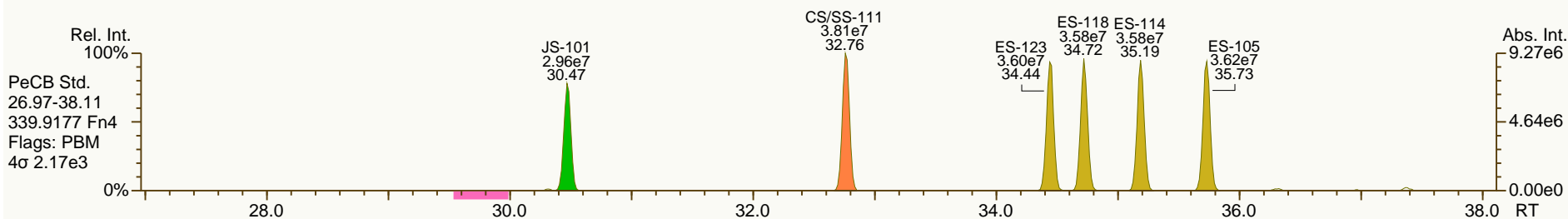
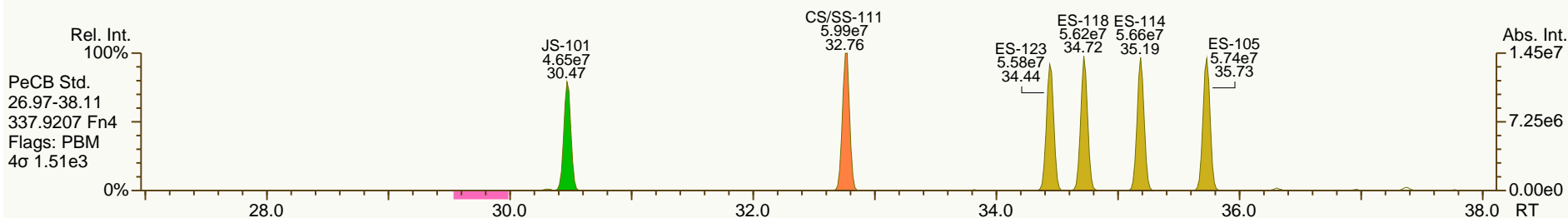
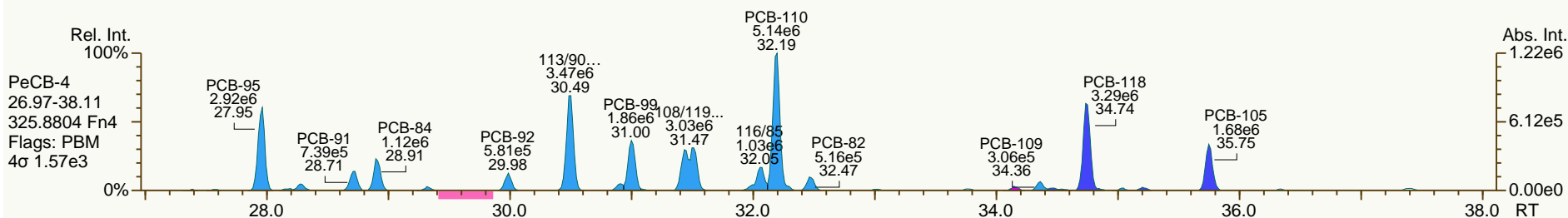
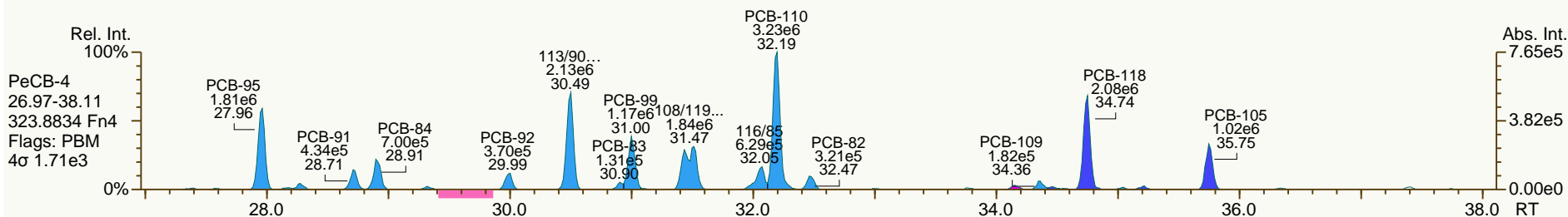




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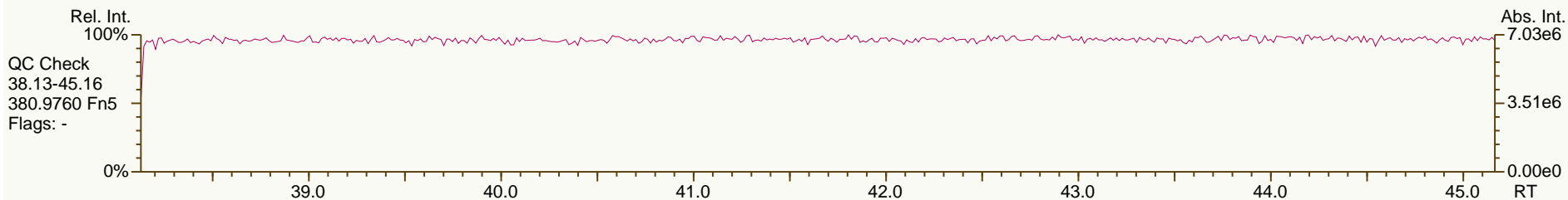
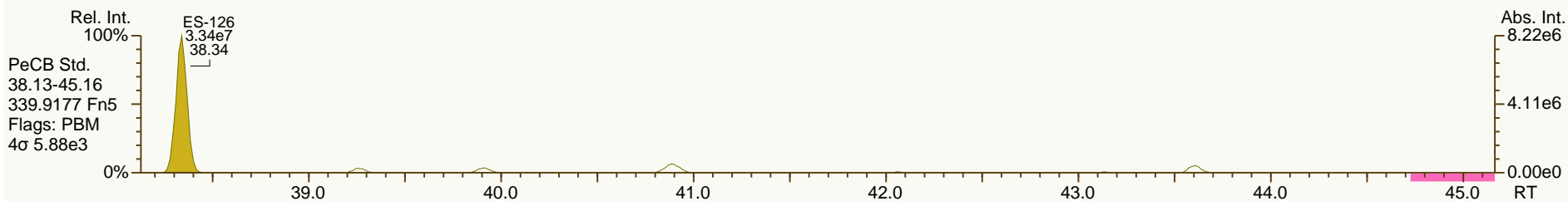
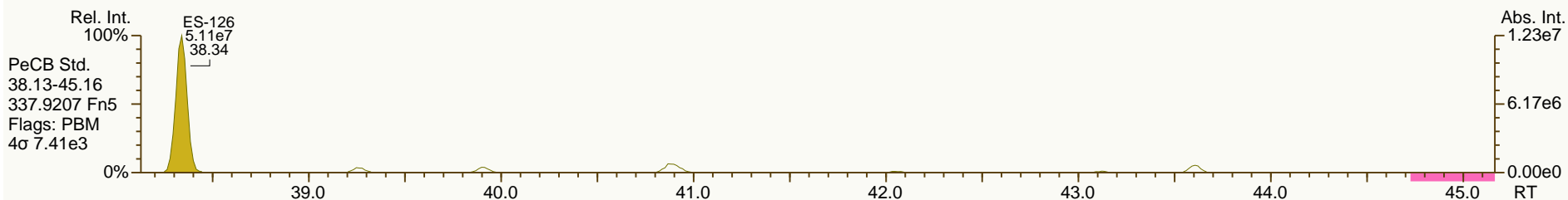
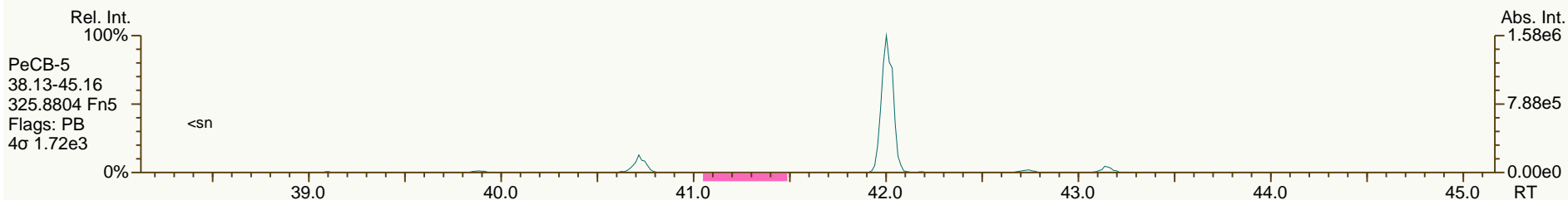
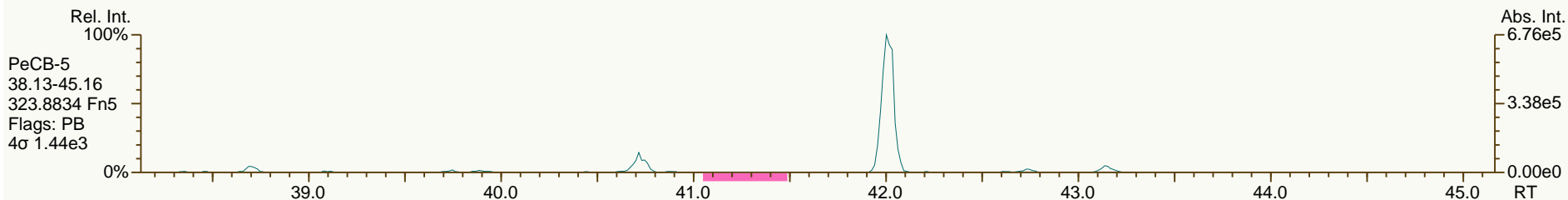
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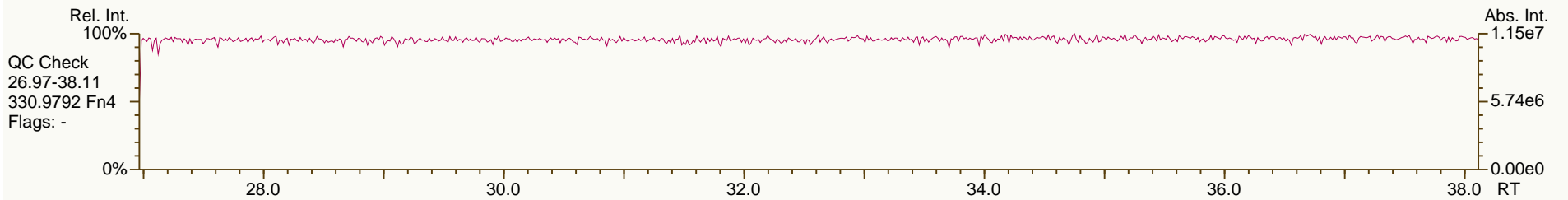
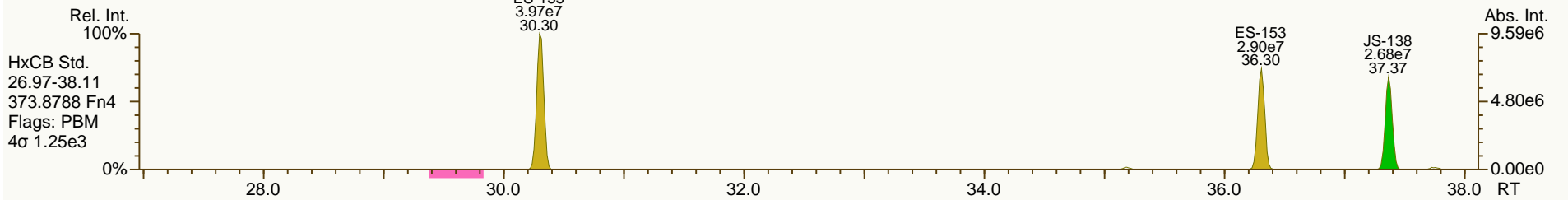
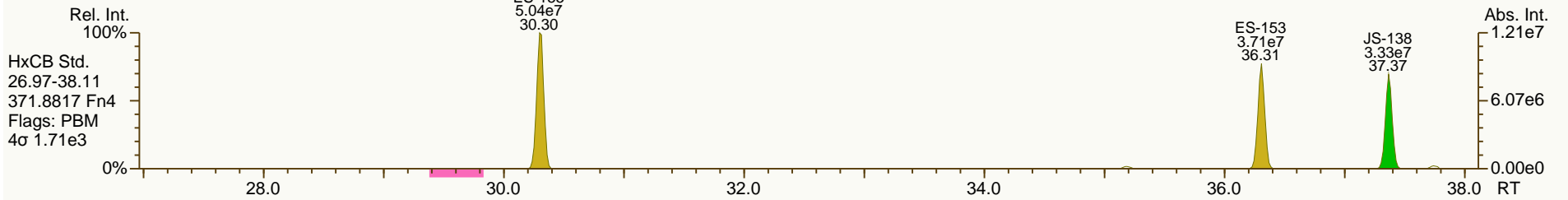
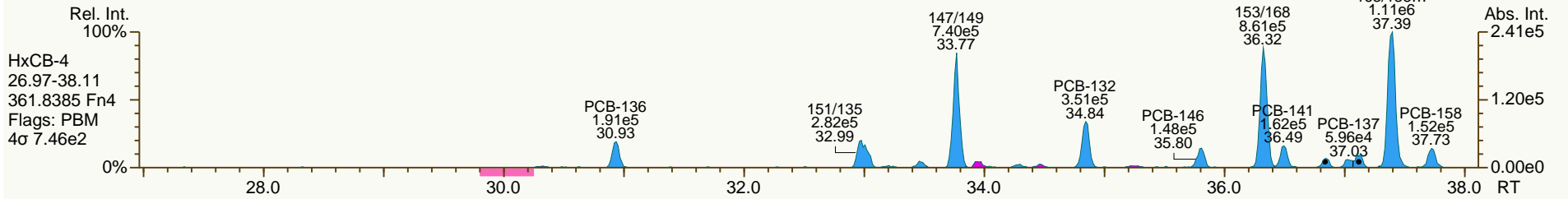
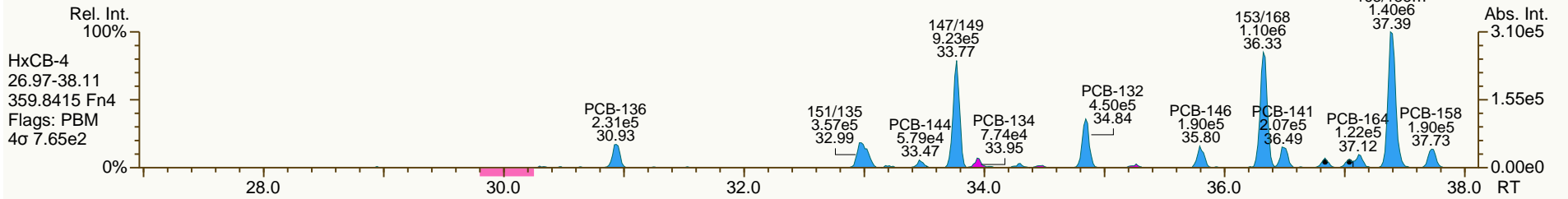
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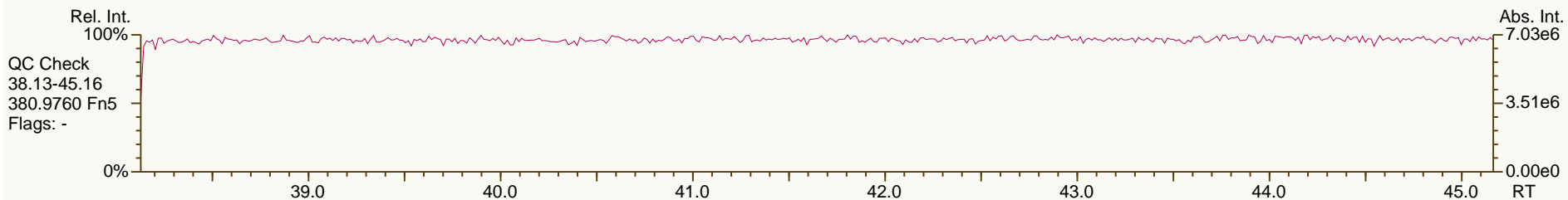
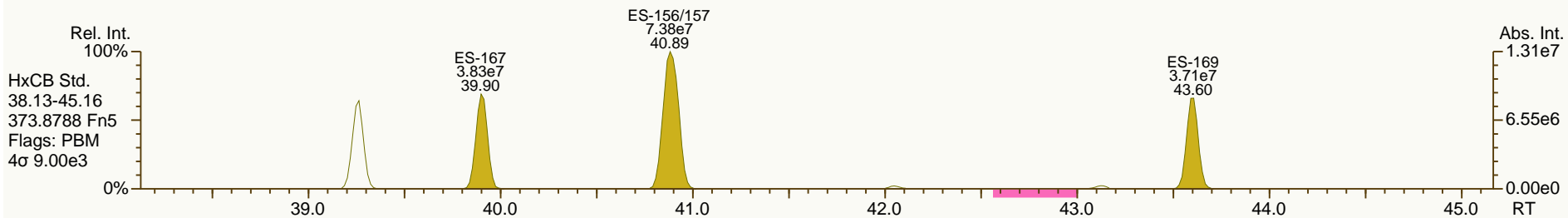
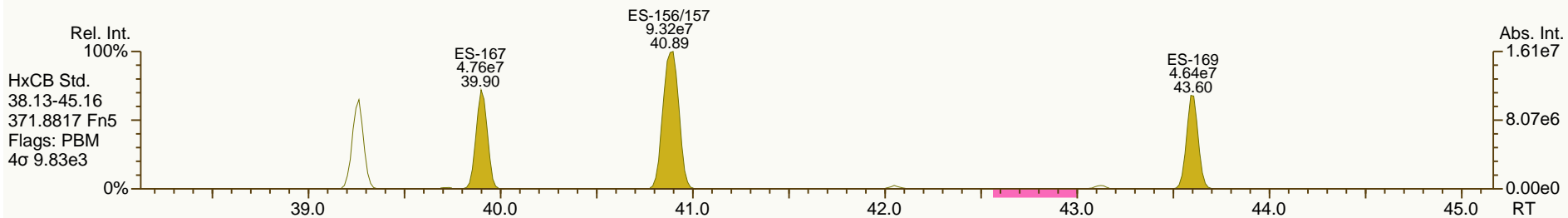
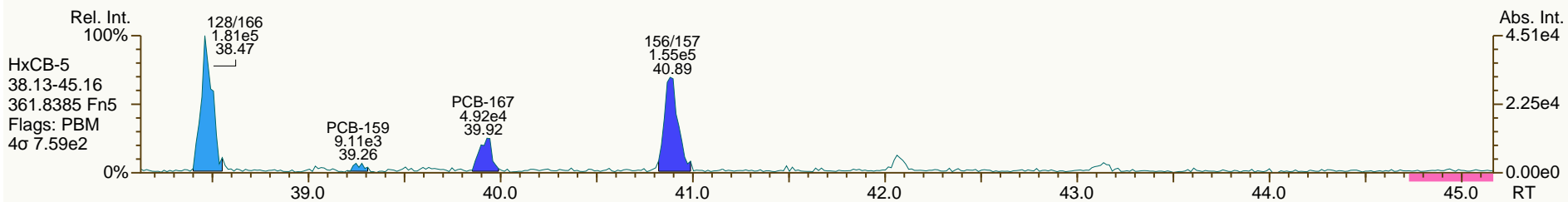
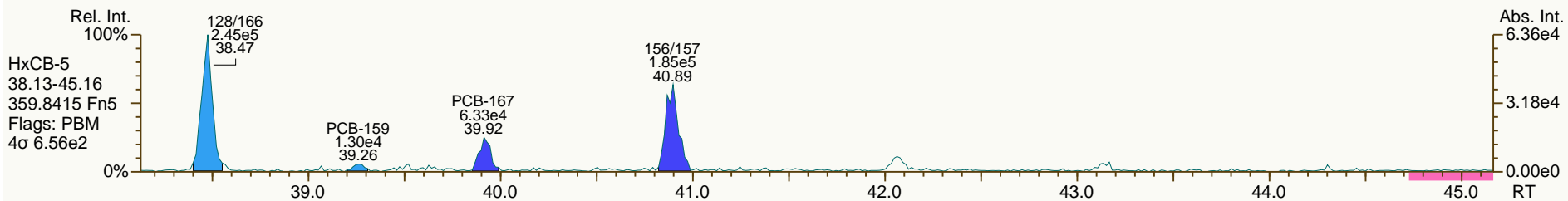
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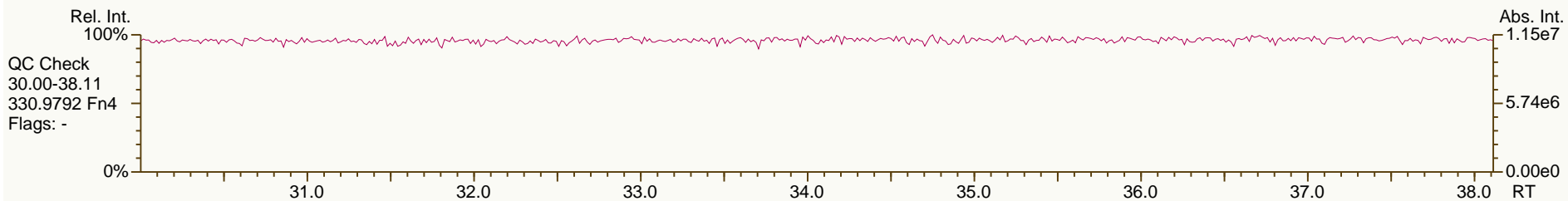
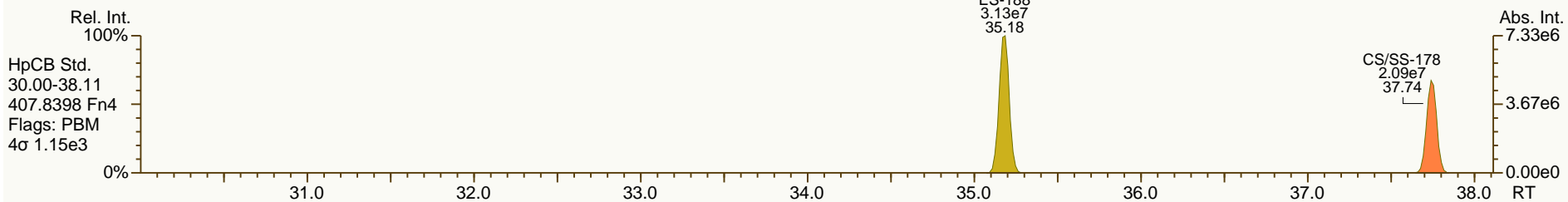
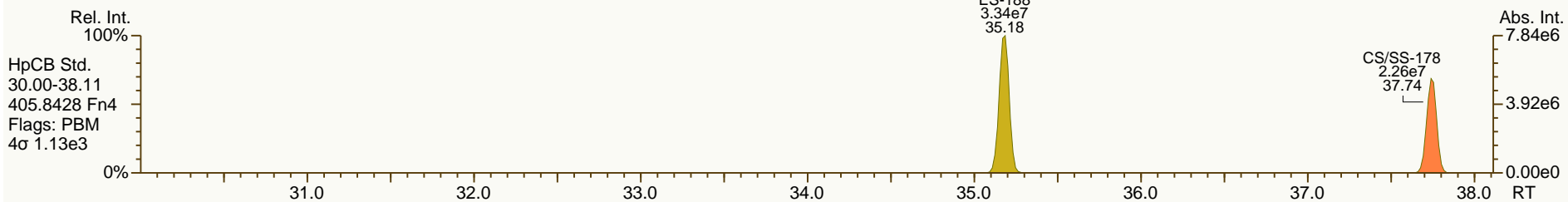
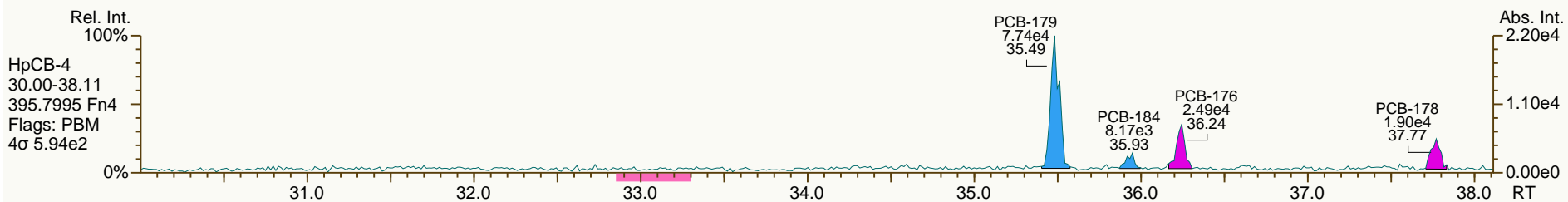
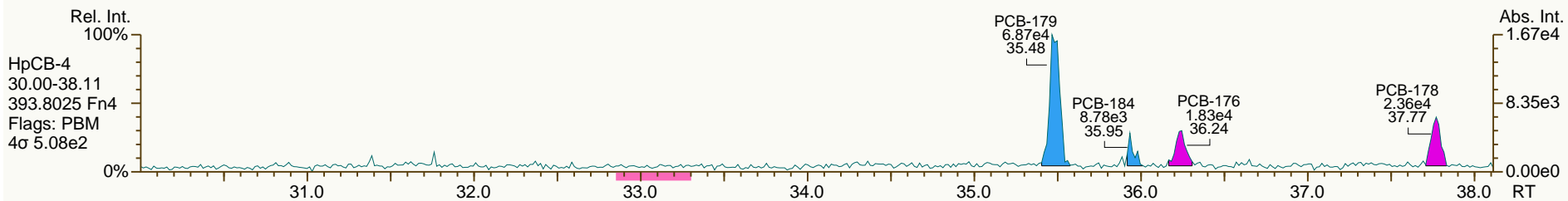
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SGS ID: A6521\_11903\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 81

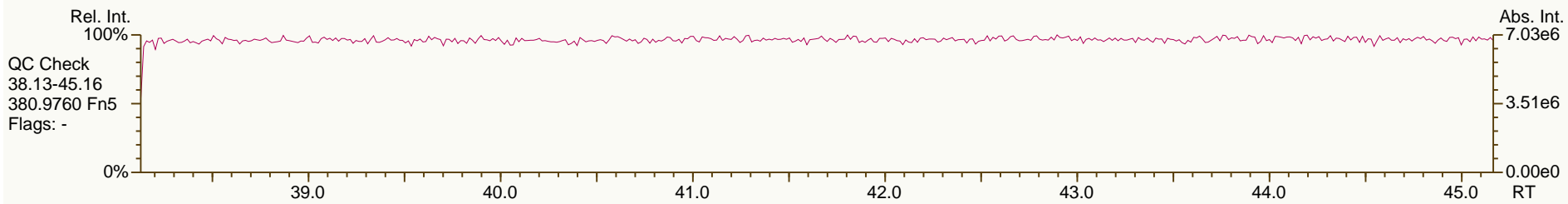
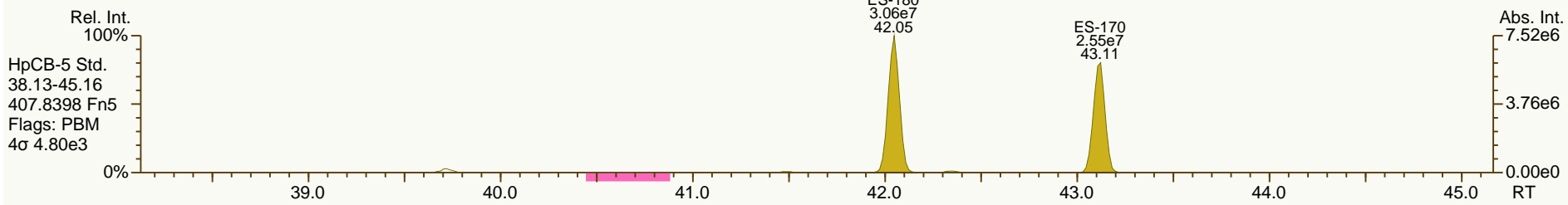
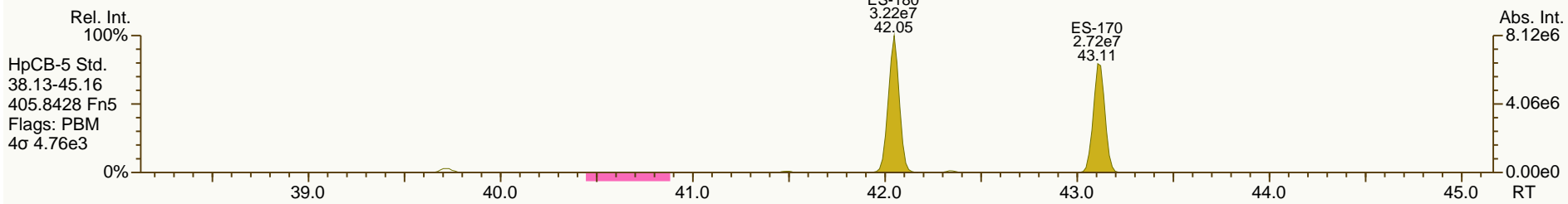
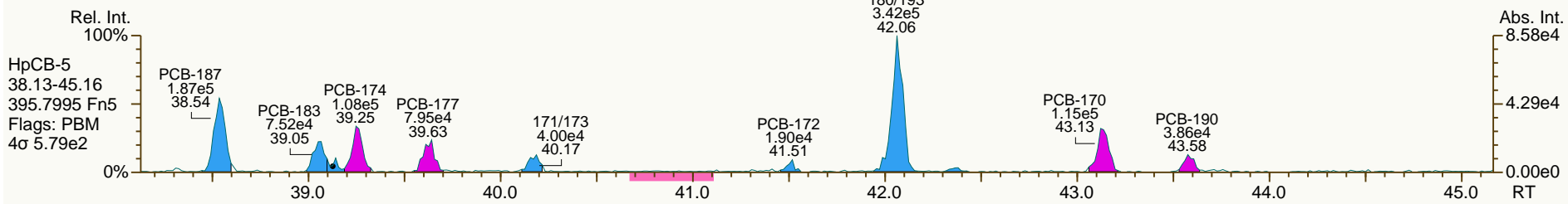
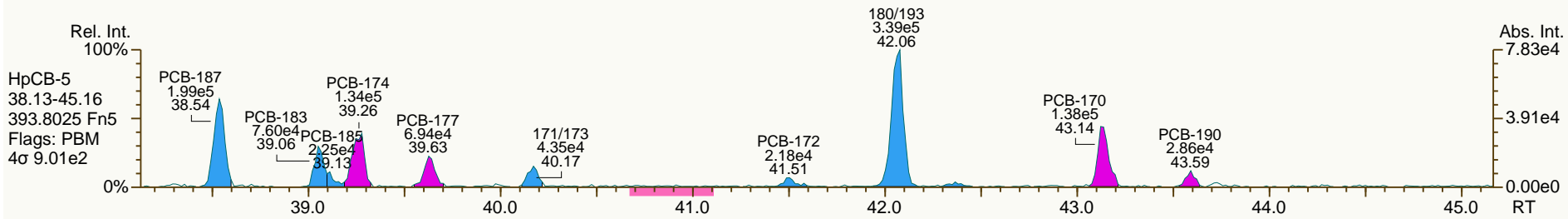
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SGS ID: A6521\_11903\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
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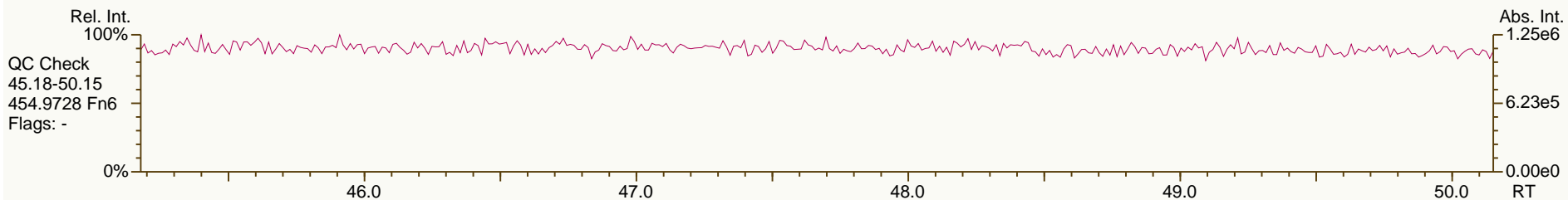
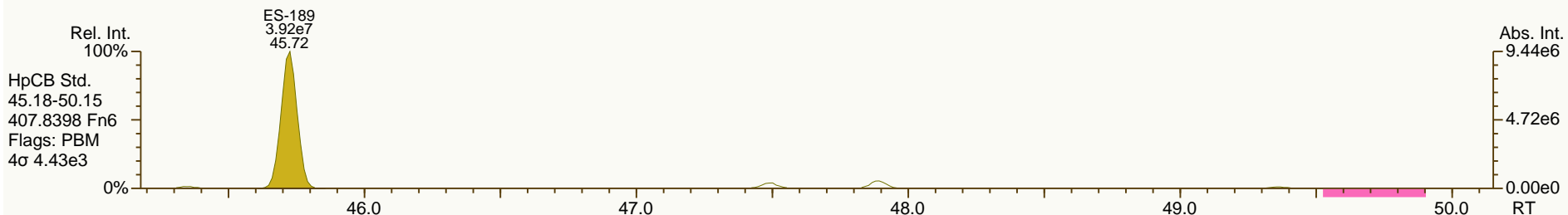
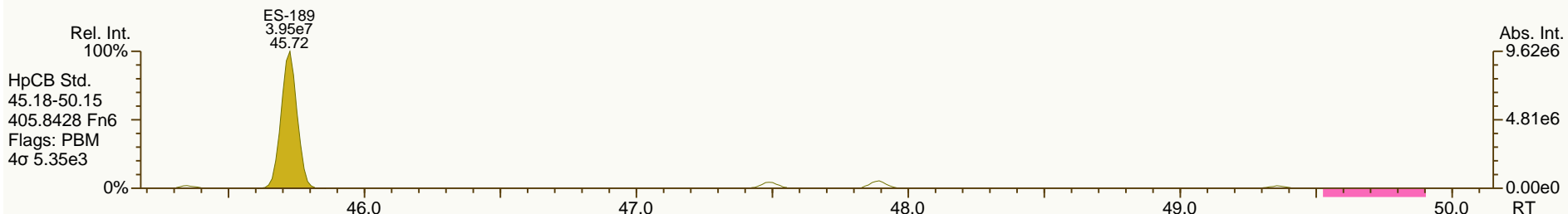
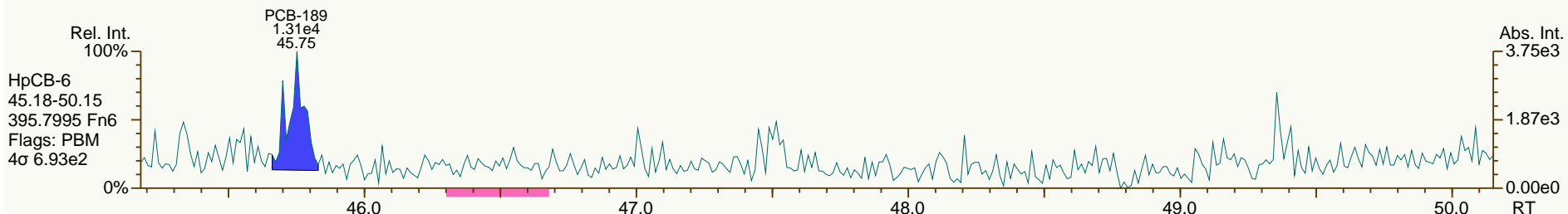
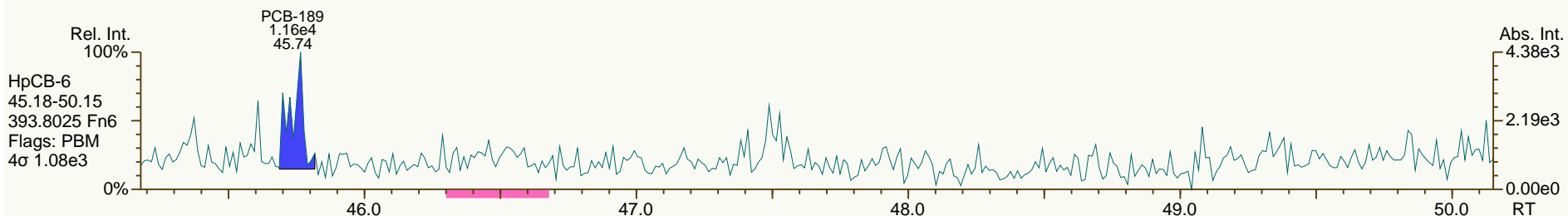
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SGS ID: A6521\_11903\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
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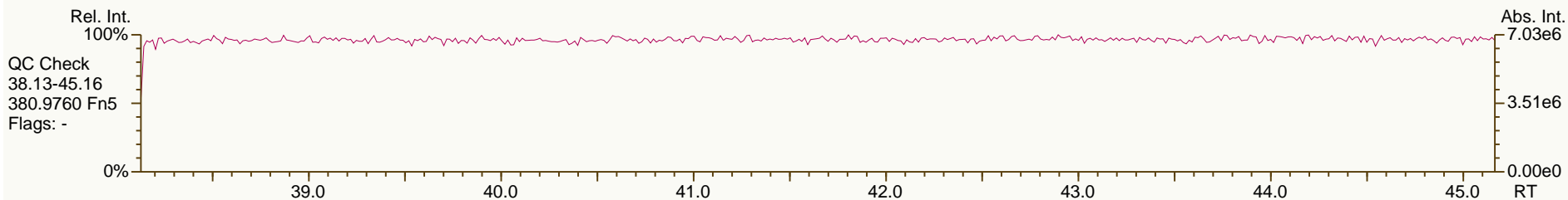
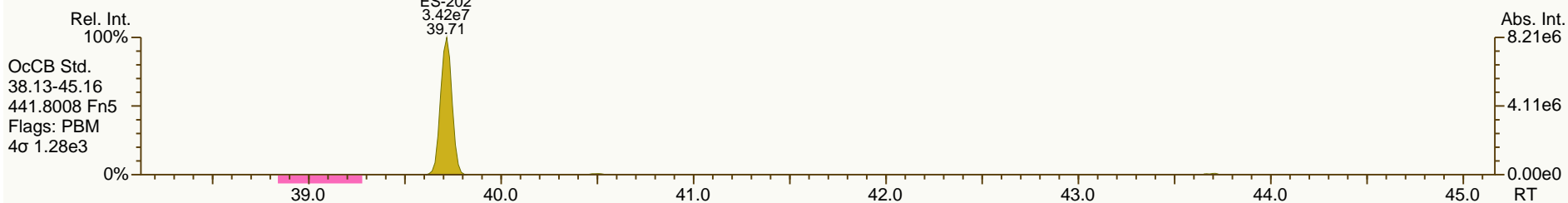
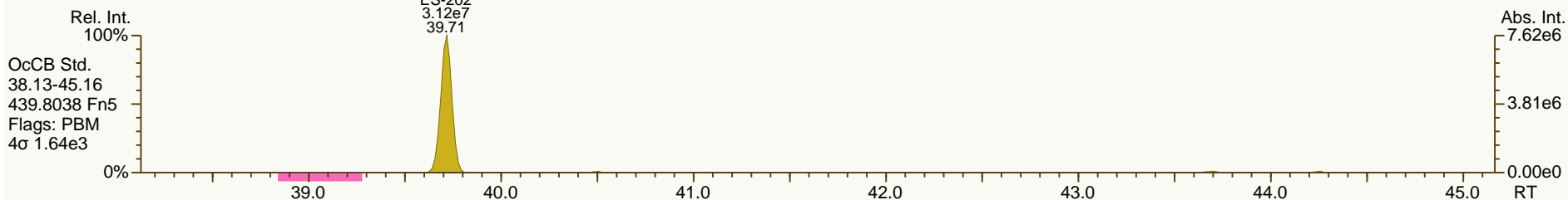
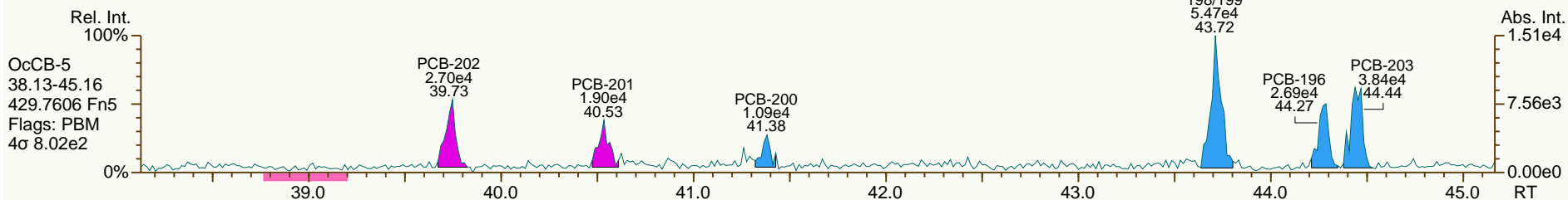
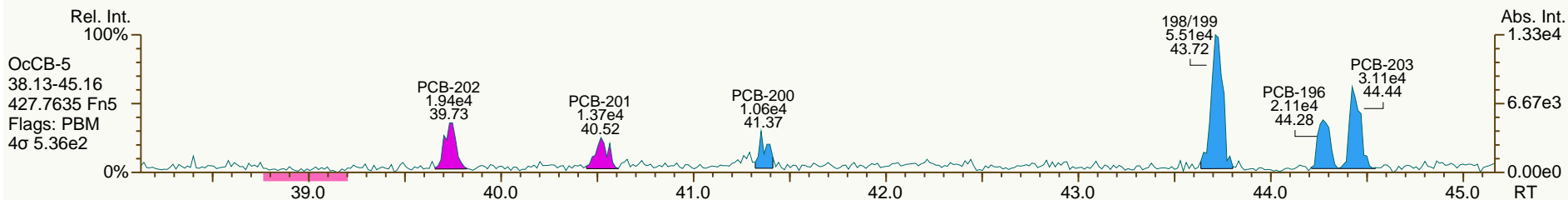
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SGS ID: A6521\_11903\_PCB\_003-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 81

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User: LKB Datafile: 140328X14

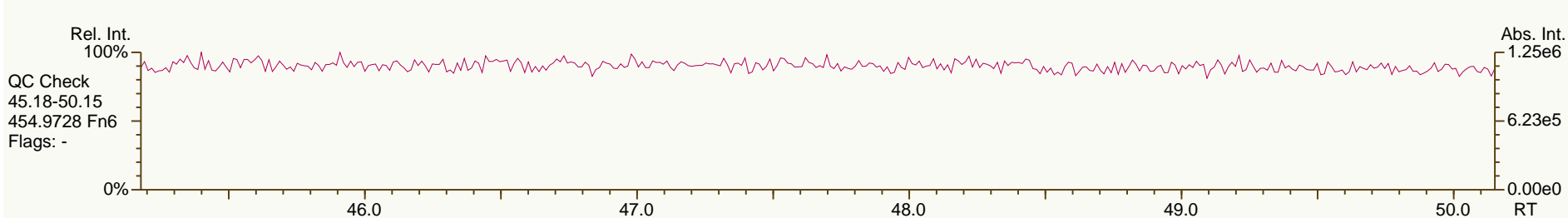
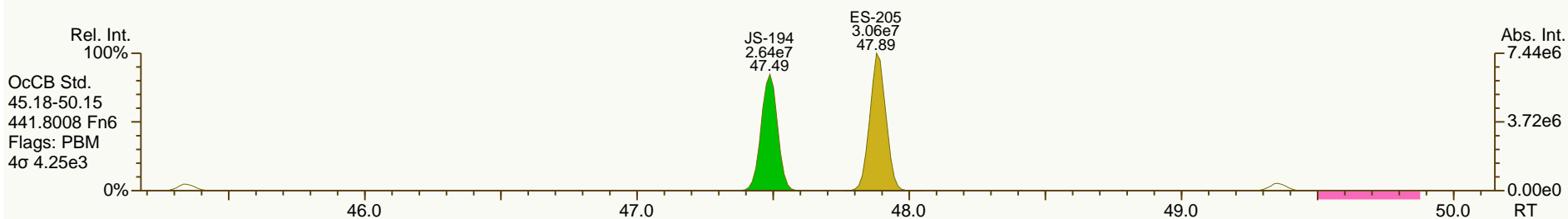
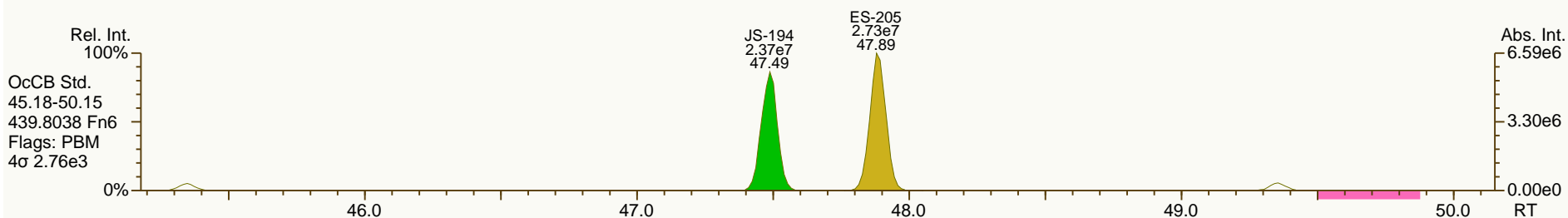
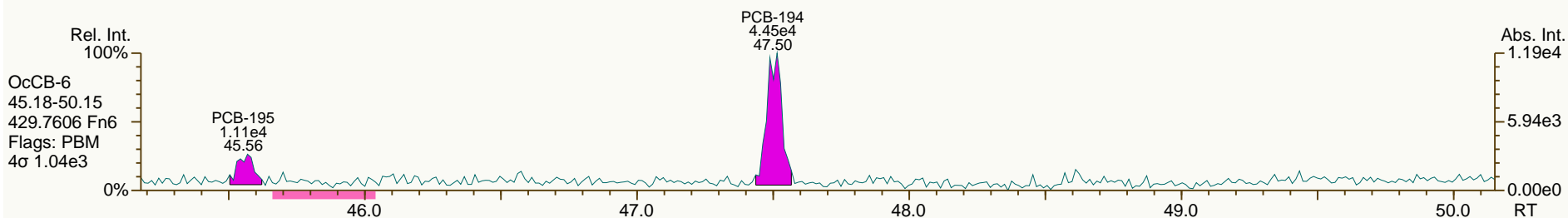
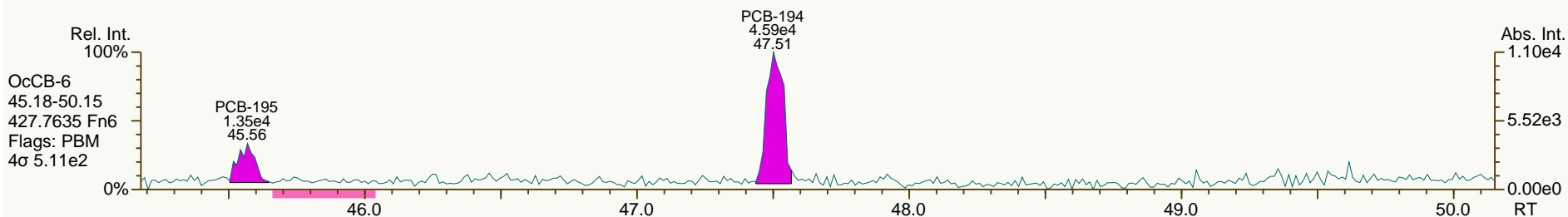




SGS ID: A6521\_11903\_PCB\_003-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 81

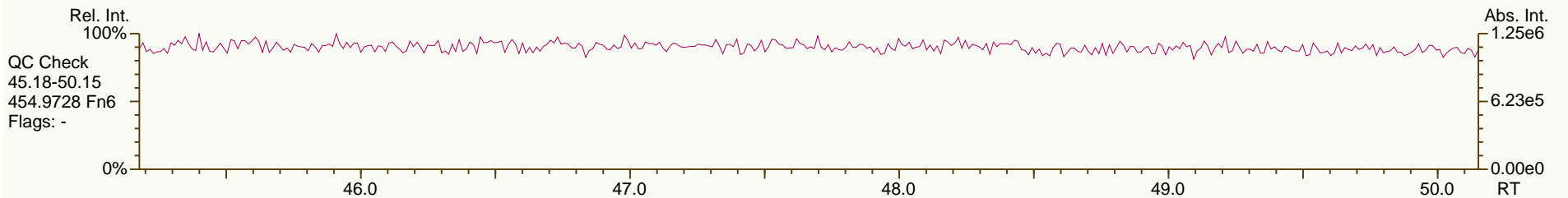
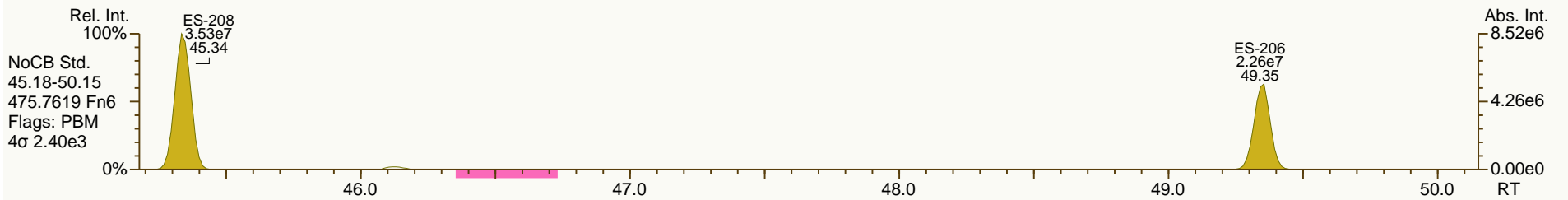
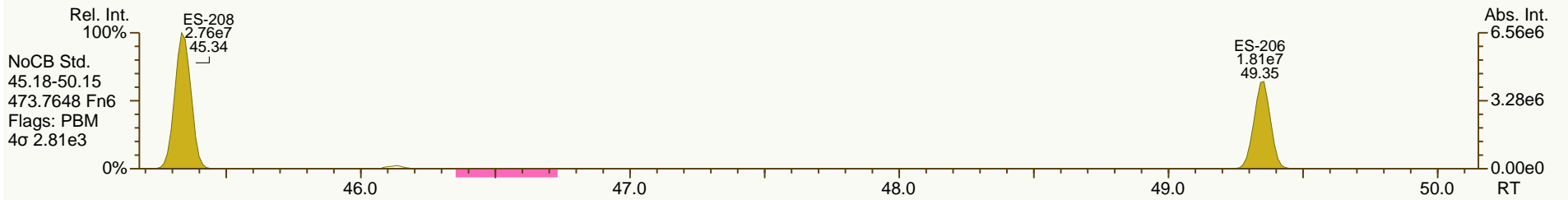
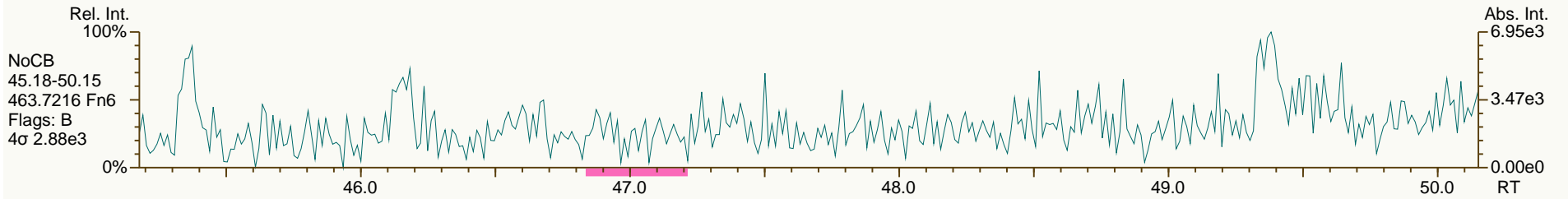
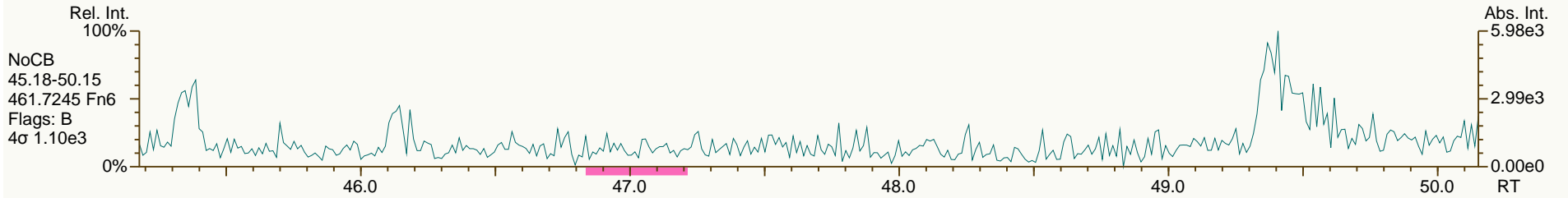
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SGS ID: A6521\_11903\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 81

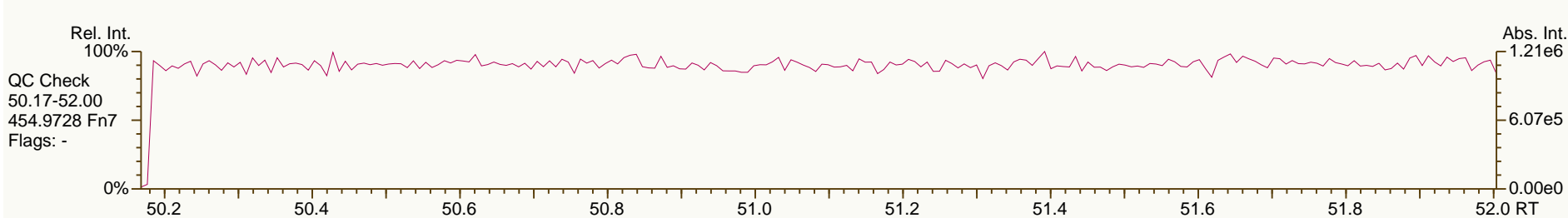
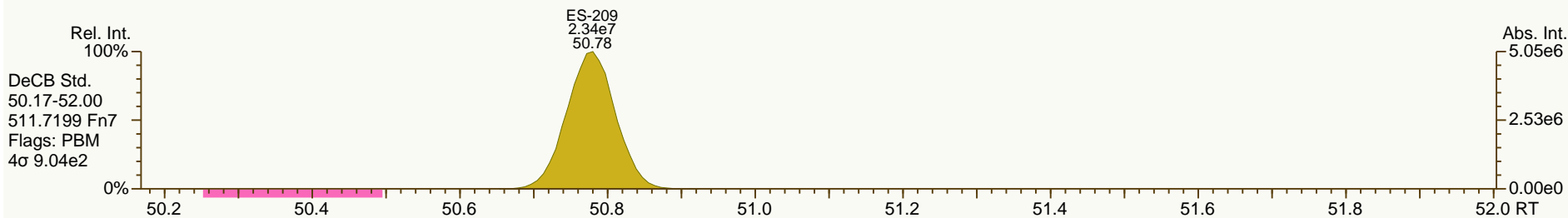
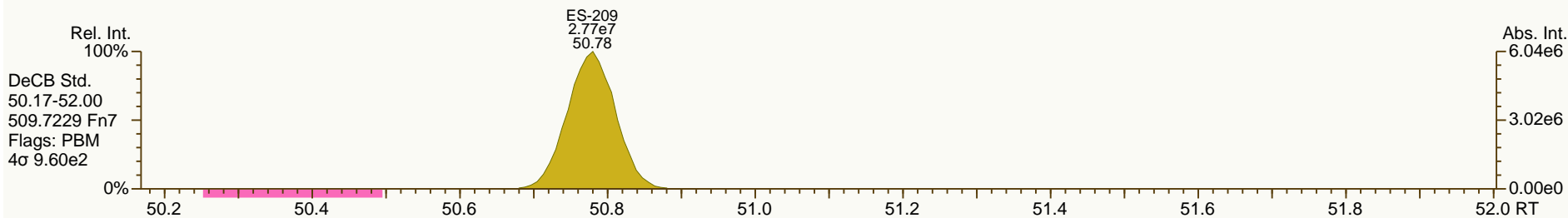
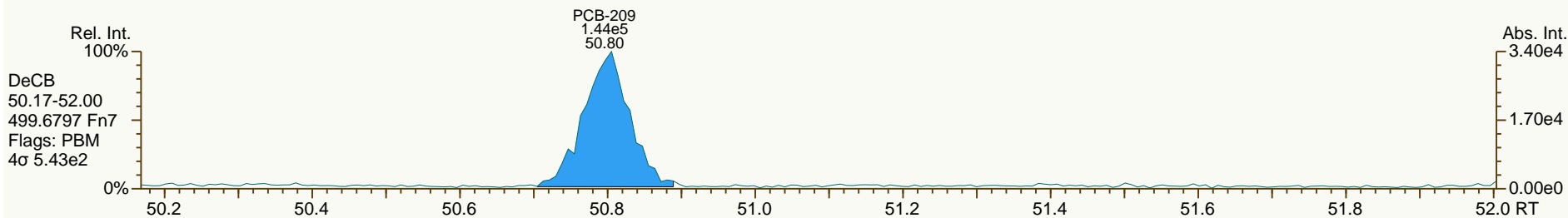
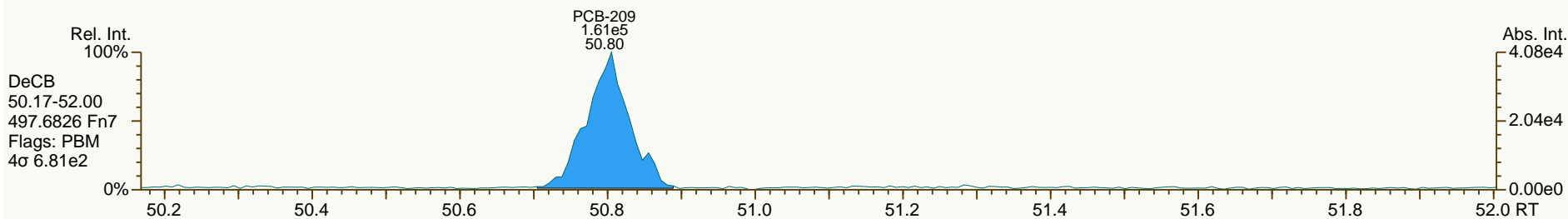
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SGS ID: A6521\_11903\_PCB\_003-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB087-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 81

Acq: 28-Mar-2014 23:25:58  
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Lab ID: A6521\_11903\_PCB\_004-RJ

ACQ: 29-Mar-2014 00:21:02 LKB

Wt/Vol: 0.96 L

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Client ID: PB091-1SWMID-140318-N

UTP: 31-Mar-2014 08:15 DES

J-level: 10.4 pg/L Split: 1

Checkcode: 863-237-FYN

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Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0006	0	2.06E+06	0.83	1.15	32.2	4.54E+03	0.742
PCB-81 344'5'-TeCB	32.29	J	1.0005	1.0006	+0.2	7.96E+04	0.73	1.12	1.34	4.54E+03	0.804
PCB-105 233'44'-PeCB	35.75		1.0006	1.0006	0	4.13E+06	0.62	1.11	76.9	3.06E+03	0.585
PCB-114 2344'5'-PeCB	35.21	J	1.0007	1.0006	-0.2	2.50E+05	0.63	1.20	4.42	3.06E+03	0.54
PCB-118 23'44'5'-PeCB	34.75		1.0006	1.0006	0	8.37E+06	0.61	1.19	148	3.06E+03	0.561
PCB-123 23'44'5'-PeCB	34.48	J	1.0006	1.0010	+0.8	1.93E+05	0.55	1.21	3.35	3.06E+03	0.535
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	4.04E+03	0.864
PCB-156/157 ...-HxCB	40.90	J C	1.0005	1.0002	-0.7	4.28E+05	1.32	1.10	8.99	1.95E+03	0.561
PCB-167 23'44'55'-HxCB	39.92	J	1.0006	1.0005	-0.2	1.47E+05	1.27	1.16	2.78	1.95E+03	0.38
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.95E+03	0.446
PCB-189 233'44'55'-HpCB	45.75	J	1.0004	1.0005	+0.3	2.65E+04	1.04	1.07	0.617	1.73E+03	0.411
PCB-209 DeCB	50.80	J	1.0004	1.0004	0	1.58E+05	1.15	1.11	5.81	1.18E+03	0.516
ES PCB-1	11.86		0.7245	0.7246	+0.1	7.59E+07	3.21	1.19	39.5 %	15%	150%
ES PCB-3	14.15		0.8640	0.8641	+0.1	9.14E+07	3.29	1.09	52.2 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	5.17E+07	1.57	0.52	61.3 %	25%	150%
ES PCB-15	20.10		1.2271	1.2277	+0.7	1.43E+08	1.56	1.04	85 %	25%	150%
ES PCB-19	17.48		1.0673	1.0673	0	5.66E+07	1.05	0.51	69.3 %	25%	150%
ES PCB-37	26.42		1.0787	1.0790	+0.5	1.29E+08	1.09	1.66	87.9 %	25%	150%
ES PCB-54	20.38		0.8328	0.8324	-0.5	6.75E+07	0.79	0.86	88.9 %	25%	150%
ES PCB-77	32.75		1.3364	1.3374	+2.0	1.16E+08	0.81	1.38	95.2 %	25%	150%
ES PCB-81	32.27		1.3170	1.3179	+1.7	1.11E+08	0.80	1.37	92.3 %	25%	150%
ES PCB-104	25.35		0.8325	0.8320	-0.8	7.48E+07	1.61	0.80	113 %	25%	150%
ES PCB-105	35.73		1.1720	1.1725	+1.1	1.01E+08	1.58	1.20	102 %	25%	150%
ES PCB-114	35.19		1.1543	1.1548	+1.1	9.82E+07	1.59	1.22	97.9 %	25%	150%
ES PCB-118	34.72		1.1391	1.1395	+0.8	9.91E+07	1.59	1.16	104 %	25%	150%
ES PCB-123	34.44		1.1299	1.1303	+0.8	9.93E+07	1.56	1.19	102 %	25%	150%
ES PCB-126	38.34		1.2575	1.2582	+1.6	9.01E+07	1.54	1.03	106 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	6.90E+07	1.28	1.11	92.2 %	25%	150%
ES PCB-155	30.30		0.8114	0.8109	-0.9	9.57E+07	1.27	1.59	90.8 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0942	+0.7	1.81E+08	1.24	1.60	85.4 %	25%	150%
ES PCB-167	39.90		1.0677	1.0678	+0.2	9.53E+07	1.24	1.67	86.1 %	25%	150%
ES PCB-169	43.60		1.1664	1.1668	+1.0	8.73E+07	1.23	1.56	84.6 %	25%	150%
ES PCB-170	43.12		0.9081	0.9079	-0.5	5.68E+07	1.09	0.95	102 %	25%	150%
ES PCB-180	42.05		0.8856	0.8854	-0.5	6.84E+07	1.06	1.14	105 %	25%	150%
ES PCB-188	35.18		0.7413	0.7409	-0.8	7.27E+07	1.04	0.94	117 %	25%	150%
ES PCB-189	45.73		0.9629	0.9629	0	8.37E+07	1.03	1.58	98.8 %	25%	150%
ES PCB-202	39.72		0.8366	0.8364	-0.5	7.15E+07	0.92	0.97	111 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	5.94E+07	0.88	1.24	89.3 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	4.18E+07	0.80	0.83	94.2 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	6.65E+07	0.80	1.17	106 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	5.10E+07	1.18	1.11	86 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9338	-0.1	1.53E+08	1.08	1.11	107 %	30%	135%
SS PCB-111	32.76		1.0750	1.0752	+0.4	1.06E+08	1.60	1.03	104 %	30%	135%
SS PCB-178	37.74		1.0100	1.0100	0	4.83E+07	1.05	0.62	107 %	30%	135%
CS PCB-28	22.87		0.9339	0.9338	-0.1	1.53E+08	1.08	1.85	93.7 %	30%	135%
CS PCB-111	32.76		1.0750	1.0752	+0.4	1.06E+08	1.60	1.22	106 %	30%	135%
CS PCB-178	37.74		1.0100	1.0100	0	4.83E+07	1.05	0.58	125 %	30%	135%
JS PCB-9	16.37					1.61E+08	1.57				
JS PCB-52	24.49					8.82E+07	0.79				
JS PCB-101	30.47					8.23E+07	1.59				
JS PCB-138	37.37					6.63E+07	1.24				
JS PCB-194	47.49					5.35E+07	0.91				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
Mono-CBs						23.8	23.8	0.847			
Di-CBs						390	390	1.01			
Tri-CBs						2,060	2,060	1.23			
Tetra-CBs						3,570	3,570	0.594			
Penta-CBs						1,420	1,420	0.564			
Hexa-CBs						337	337	0.4			
Hepta-CBs						90.4	90.4	0.448			
Octa-CBs						16	22.3	0.42			
Nona-CBs						4.09	4.09	1.22			
PCB-1 2-MoCB	11.88		1.0011	1.0010	-0.1	5.27E+05	3.04	0.95	15.2	4.88E+03	0.866
PCB-2 3-MoCB	13.98	J	0.9880	0.9881	+0.1	1.37E+05	3.33	1.17	2.69	4.88E+03	0.717
PCB-3 4-MoCB	14.16	J B	1.0010	1.0010	0	2.63E+05	3.08	1.01	5.96	4.88E+03	0.828
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	4.49E+06	1.57	1.23	147	4.98E+03	1.2
PCB-10 26'-DiCB	14.59	J	1.0135	1.0133	-0.2	1.70E+05	1.72	1.92	3.57	4.98E+03	0.769
PCB-9 25'-DiCB	16.39	J	1.0010	1.0011	+0.1	2.49E+05	1.42	0.97	3.77	6.14E+03	0.875
PCB-7 24'-DiCB	16.56	J	1.0111	1.0113	+0.2	1.94E+05	1.51	1.10	2.59	6.14E+03	0.77
PCB-6 23'-DiCB	16.78		1.0249	1.0249	0	4.96E+06	1.66	1.03	70.6	6.14E+03	0.824
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.03	ND	6.14E+03	0.82
PCB-8 24'-DiCB	17.21		1.0506	1.0508	+0.2	4.83E+06	1.64	1.04	68.3	6.14E+03	0.816
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	6.14E+03	0.689
PCB-11 33'-DiCB	19.54	B	0.9721	0.9721	0	2.22E+06	1.64	1.06	30.6	6.14E+03	0.797
PCB-13/12 34'/34'-DiCB	19.81	C	0.9866	0.9854	-1.4	1.81E+06	1.62	1.06	25.1	6.14E+03	0.801
PCB-15 44'-DiCB	20.12		1.0008	1.0007	-0.1	2.68E+06	1.73	1.02	38.4	6.14E+03	0.83
PCB-19 22'6-TrCB	17.49		1.0010	1.0010	0	2.83E+06	1.06	1.15	91.1	4.64E+03	1.28
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	1.62E+07	1.05	1.56	383	4.64E+03	0.939
PCB-17 22'4-TrCB	19.65		1.1243	1.1245	+0.2	6.53E+06	1.07	1.33	181	4.64E+03	1.1
PCB-27 23'6-TrCB	19.85		1.1353	1.1355	+0.2	1.52E+06	1.05	1.82	30.8	4.64E+03	0.806
PCB-24 236-TrCB	19.97	J EMPC	1.1430	1.1424	-0.7	1.00E+05	1.30	1.74	2.13	4.64E+03	0.844
PCB-16 22'3-TrCB	20.08		1.1484	1.1487	+0.4	3.19E+06	1.08	0.99	119	4.64E+03	1.48

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.56		1.1758	1.1762	+0.5	1.00E+07	1.07	1.93	192	4.64E+03	0.758
PCB-34 23'5'-TrCB	21.71	J	0.8218	0.8215	-0.4	2.45E+05	0.95	1.25	3.18	7.88E+03	1.03
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	7.88E+03	1.02
PCB-26/29 23'5'/245-TrCB	22.11	C	0.8383	0.8369	-1.9	7.05E+06	1.01	1.28	89.2	7.88E+03	1
PCB-25 23'4-TrCB	22.33		0.8456	0.8453	-0.4	8.25E+06	1.04	1.26	106	7.88E+03	1.02
PCB-31 24'5-TrCB	22.62		0.8562	0.8559	-0.4	2.50E+07	1.02	1.34	302	7.88E+03	0.957
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8663	-1.0	2.70E+07	1.01	1.26	349	7.88E+03	1.02
PCB-21/33 234/23'4'-TrCB	23.10	C	0.8738	0.8743	+0.7	5.10E+06	0.99	1.28	64.4	7.88E+03	1
PCB-22 234'-TrCB	23.46		0.8880	0.8877	-0.4	6.86E+06	1.01	1.20	92.6	7.88E+03	1.07
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	7.88E+03	0.975
PCB-39 34'5-TrCB	25.19	J	0.9522	0.9532	+1.5	2.51E+05	1.06	1.36	2.99	7.88E+03	0.948
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	7.88E+03	1.05
PCB-35 33'4-TrCB	26.08	J	0.9871	0.9870	-0.2	5.19E+05	1.07	1.19	7.08	7.88E+03	1.08
PCB-37 344'-TrCB	26.45		1.0007	1.0009	+0.3	3.22E+06	0.98	1.08	48.4	7.88E+03	1.19
PCB-54 22'66'-TeCB	20.40	J	1.0010	1.0009	-0.1	1.49E+05	0.77	1.35	3.41	2.11E+03	0.454
PCB-50/53 22'46/22'56'-TeCB	22.36	C	0.9145	0.9133	-1.6	5.54E+06	0.78	0.92	113	2.23E+03	0.479
PCB-45 22'36-TeCB	22.98		0.9383	0.9383	0	3.45E+06	0.75	0.84	77.1	2.23E+03	0.525
PCB-51 22'46'-TeCB	23.05		0.9413	0.9412	-0.1	3.01E+06	0.81	0.90	63.1	2.23E+03	0.493
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	1.64E+06	0.78	0.74	41.9	2.23E+03	0.6
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	2.75E+07	0.79	0.90	574	2.23E+03	0.491
PCB-73 23'5'6-TeCB	24.64	J	1.0062	1.0063	+0.1	8.59E+04	0.75	1.19	1.35	2.23E+03	0.369
PCB-43 22'35-TeCB	24.74		1.0101	1.0102	+0.1	7.84E+05	0.79	0.75	19.5	2.23E+03	0.585
PCB-69/49 23'46/22'45'-TeCB	24.95	C	1.0181	1.0189	+1.2	1.90E+07	0.78	1.10	326	2.23E+03	0.403
PCB-48 22'45-TeCB	25.21		1.0295	1.0296	+0.2	3.33E+06	0.78	0.90	69	2.23E+03	0.488
PCB-44/47/65 ...-TeCB	25.41	C	1.0384	1.0375	-1.4	2.62E+07	0.78	0.96	511	2.23E+03	0.458
PCB-59/62/75 ...-TeCB	25.70	C	1.0496	1.0494	-0.3	2.38E+06	0.80	1.25	35.6	2.23E+03	0.352
PCB-42 22'34'-TeCB	25.87		1.0563	1.0564	+0.2	6.04E+06	0.78	0.82	138	2.23E+03	0.539
PCB-41 22'34-TeCB	26.20		1.0698	1.0698	0	7.56E+05	0.79	0.76	18.6	2.23E+03	0.579
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	1.17E+07	0.78	0.92	240	2.23E+03	0.482
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	1.33E+07	0.79	1.33	187	2.23E+03	0.332
PCB-72 23'55'-TeCB	27.21	J	0.8436	0.8432	-0.7	2.36E+05	0.78	1.26	3.5	4.54E+03	0.711
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	1.63E+06	0.80	1.35	22.7	4.54E+03	0.666
PCB-57 233'5-TeCB	27.84	J	0.8630	0.8626	-0.7	1.43E+05	0.74	1.22	2.2	4.54E+03	0.737
PCB-58 233'5'-TeCB	28.06	J EMPC	0.8693	0.8693	0	8.44E+04	0.95	1.27	1.24	4.54E+03	0.705
PCB-67 23'45-TeCB	28.20	J	0.8741	0.8739	-0.3	6.18E+05	0.83	1.33	8.75	4.54E+03	0.678
PCB-63 234'5-TeCB	28.43		0.8811	0.8809	-0.3	1.17E+06	0.85	1.40	15.7	4.54E+03	0.643
PCB-61/70/74/76 ...-TeCB	28.73	C	0.8902	0.8902	0	3.26E+07	0.80	1.25	490	4.54E+03	0.721
PCB-66 23'44'-TeCB	29.00		0.8989	0.8986	-0.5	2.12E+07	0.80	1.18	337	4.54E+03	0.763
PCB-55 233'4-TeCB	29.15	J	0.9034	0.9031	-0.5	2.59E+05	0.76	1.18	4.12	4.54E+03	0.761
PCB-56 233'4'-TeCB	29.58		0.9169	0.9167	-0.4	1.05E+07	0.79	1.17	169	4.54E+03	0.771
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	4.06E+06	0.77	1.20	63.4	4.54E+03	0.749
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	4.54E+03	0.653
PCB-79 33'45'-TeCB	31.44	J	0.9737	0.9741	+0.8	2.50E+05	0.80	1.37	3.42	4.54E+03	0.655
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	4.54E+03	0.784
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.57E+03	0.302
PCB-96 22'366'-PeCB	25.70	J	1.0134	1.0135	+0.2	2.50E+05	0.68	1.18	5.9	1.57E+03	0.365
PCB-103 22'45'6-PeCB	27.38	J	0.8989	0.8986	-0.5	9.27E+04	0.69	0.93	2.09	3.06E+03	0.695
PCB-94 22'356'-PeCB	27.57	J	0.9051	0.9049	-0.3	1.18E+05	0.59	0.79	3.15	3.06E+03	0.821

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9175	-0.2	6.46E+06	0.63	0.86	157	3.06E+03	0.751
PCB-100/93 22'44'6/22'356-PeCB	28.18	J C	0.9246	0.9246	0	1.89E+05	0.63	0.86	4.64	3.06E+03	0.755
PCB-102 22'456'-PeCB	28.28		0.9282	0.9280	-0.3	5.71E+05	0.68	1.00	12	3.06E+03	0.647
PCB-98 22'34'6'-PeCB	28.35	J	0.9305	0.9304	-0.2	3.17E+04	0.67	0.74	0.905	3.06E+03	0.879
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	3.06E+03	0.834
PCB-91 22'34'6-PeCB	28.72		0.9424	0.9423	-0.2	1.93E+06	0.61	0.92	44.1	3.06E+03	0.704
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	2.81E+06	0.62	0.71	82.9	3.06E+03	0.908
PCB-89 22'346'-PeCB	29.32	J	0.9624	0.9623	-0.2	2.99E+05	0.59	0.76	8.3	3.06E+03	0.854
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	3.06E+03	0.541
PCB-92 22'355'-PeCB	29.99		0.9841	0.9840	-0.2	1.44E+06	0.60	0.81	37.2	3.06E+03	0.798
PCB-113/90/101 ...-PeCB	30.49	C	0.9999	1.0007	+1.5	8.09E+06	0.61	0.96	177	3.06E+03	0.674
PCB-83 22'33'5-PeCB	30.90		1.0142	1.0142	0	5.43E+05	0.59	0.70	16.4	3.06E+03	0.93
PCB-99 22'44'5-PeCB	31.00		1.0173	1.0174	+0.2	4.93E+06	0.60	0.90	116	3.06E+03	0.722
PCB-112 233'56-PeCB	31.13	J	1.0206	1.0215	+1.7	3.78E+04	0.65	1.17	0.68	3.06E+03	0.555
PCB-108/119/86/97/125...-PeCB	31.47	C	1.0320	1.0329	+1.7	7.36E+06	0.61	0.98	158	3.06E+03	0.663
PCB-117 234'56-PeCB	31.98	J	1.0495	1.0496	+0.2	3.93E+05	0.66	1.18	7.02	3.06E+03	0.55
PCB-116/85 23456/22'344'-PeCB	32.06	C	1.0525	1.0522	-0.6	2.21E+06	0.63	0.88	53.2	3.06E+03	0.74
PCB-110 233'4'6-PeCB	32.19		1.0561	1.0564	+0.6	1.22E+07	0.62	1.10	235	3.06E+03	0.591
PCB-115 2344'6-PeCB	32.29	J	1.0590	1.0597	+1.4	1.94E+05	0.56	1.16	3.52	3.06E+03	0.56
PCB-82 22'33'4-PeCB	32.48		1.0655	1.0657	+0.4	1.29E+06	0.60	0.69	39.5	3.06E+03	0.942
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	3.06E+03	0.537
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.06E+03	0.529
PCB-107/124 ...-PeCB	34.16	J C	0.9916	0.9916	0	3.34E+05	0.63	1.11	6.34	3.06E+03	0.585
PCB-109 233'46-PeCB	34.36		0.9976	0.9977	+0.2	8.17E+05	0.62	1.24	13.9	3.06E+03	0.523
PCB-106 233'45-PeCB	34.55	J EMPC	1.0038	1.0031	-1.5	7.85E+04	0.43	1.11	1.49	3.06E+03	0.585
PCB-122 233'4'5'-PeCB	35.04	J	1.0091	1.0091	0	1.61E+05	0.59	1.03	3.31	3.06E+03	0.628
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	3.06E+03	0.583
PCB-155 22'44'66'-HxCB	30.33	J	1.0007	1.0008	+0.2	4.03E+04	1.21	1.26	0.698	1.19E+03	0.212
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.14	ND	1.19E+03	0.235
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.19E+03	0.232
PCB-136 22'33'66'-HxCB	30.94	J	1.0207	1.0208	+0.2	4.93E+05	1.21	1.06	10.2	1.19E+03	0.253
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.19E+03	0.245
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.19E+03	0.322
PCB-151/135 ...-HxCB	32.99	C	1.0886	1.0887	+0.2	7.94E+05	1.27	1.09	22	1.19E+03	0.339
PCB-154 22'44'56'-HxCB	NotFnd		1.0954	-		0.00E+00		1.29	ND	1.19E+03	0.288
PCB-144 22'345'6-HxCB	33.47	J	1.1041	1.1044	+0.6	1.21E+05	1.29	1.14	3.22	1.19E+03	0.325
PCB-147/149 ...-HxCB	33.77	C	1.1141	1.1143	+0.4	1.98E+06	1.27	1.11	53.7	1.19E+03	0.332
PCB-134 22'33'56-HxCB	33.95	J	1.1199	1.1202	+0.6	1.60E+05	1.06	0.93	5.19	1.19E+03	0.396
PCB-143 22'3456'-HxCB	NotFnd		1.1225	-		0.00E+00		1.02	ND	1.19E+03	0.362
PCB-139/140 ...-HxCB	34.29	J C	1.1312	1.1314	+0.4	7.47E+04	1.14	1.13	2	1.19E+03	0.327
PCB-131 22'33'46-HxCB	34.47	J	1.1369	1.1374	+1.0	4.81E+04	1.20	0.98	1.49	1.19E+03	0.379
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.19E+03	0.39
PCB-132 22'33'46'-HxCB	34.85		1.1494	1.1498	+0.8	9.04E+05	1.37	0.99	27.6	1.19E+03	0.374
PCB-133 22'33'55'-HxCB	35.24	J	1.1626	1.1630	+0.8	4.42E+04	1.29	1.05	1.28	1.19E+03	0.353
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.19E+03	0.273
PCB-146 22'34'55'-HxCB	35.80		0.9582	0.9581	-0.2	4.29E+05	1.26	1.15	11.3	1.19E+03	0.322
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.19E+03	0.251
PCB-153/168 ...-HxCB	36.33	C	0.9728	0.9721	-1.5	2.52E+06	1.30	1.42	54	1.19E+03	0.261

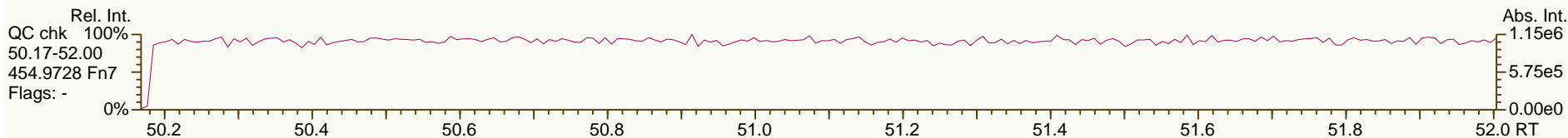
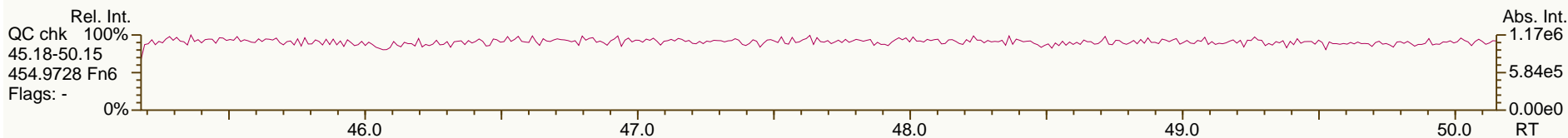
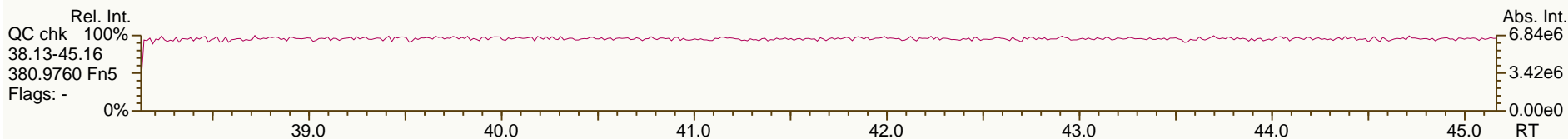
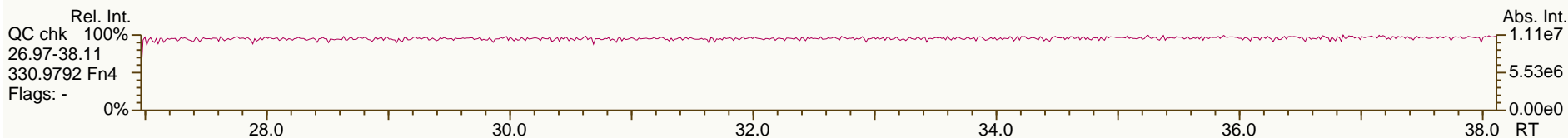
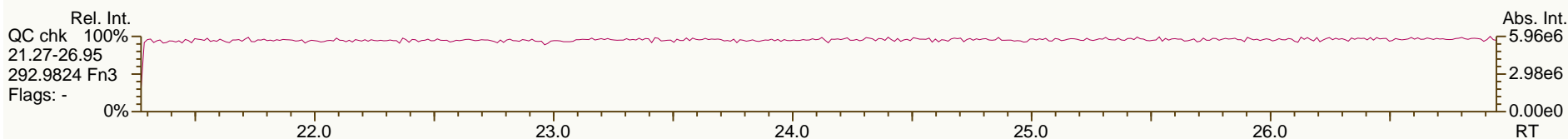
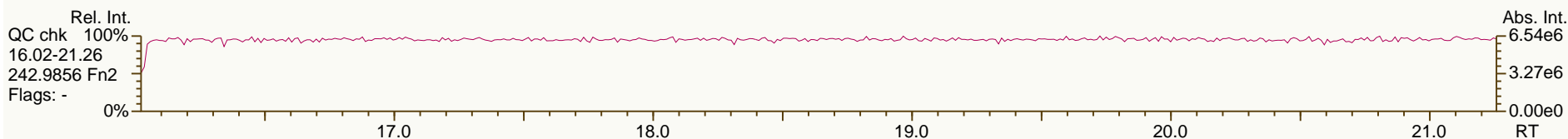
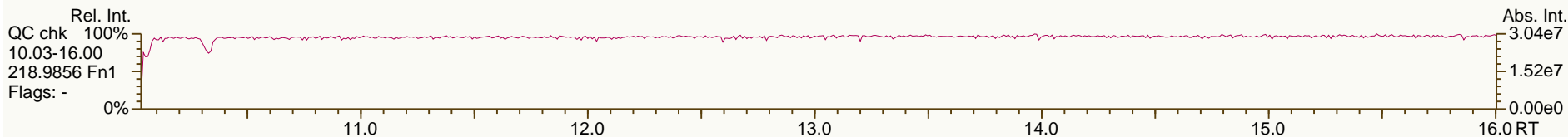
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.49		0.9766	0.9766	0	4.38E+05	1.17	1.04	12.8	1.19E+03	0.356
PCB-130 22'33'45'-HxCB	36.84	J	0.9859	0.9859	0	1.78E+05	1.11	0.92	5.86	1.19E+03	0.402
PCB-137 22'344'5-HxCB	37.03	J	0.9911	0.9910	-0.2	1.49E+05	1.07	1.11	4.05	1.19E+03	0.332
PCB-164 233'4'5'6-HxCB	37.12	J	0.9933	0.9933	0	2.71E+05	1.26	1.43	5.75	1.19E+03	0.259
PCB-163/138/129 ...-HxCB	37.40	C	1.0011	1.0007	-0.9	3.13E+06	1.22	1.15	82.8	1.19E+03	0.323
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.19E+03	0.266
PCB-158 233'44'6-HxCB	37.73	J	1.0096	1.0096	0	4.06E+05	1.27	1.53	8.02	1.19E+03	0.241
PCB-128/166 ...-HxCB	38.48	J C	0.9641	0.9642	+0.2	5.24E+05	1.17	0.90	12.7	1.95E+03	0.489
PCB-159 233'455'-HxCB	39.27	J	0.9844	0.9840	-0.9	3.38E+04	1.22	1.10	0.674	1.95E+03	0.401
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.10	ND	1.95E+03	0.4
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.16E+03	0.26
PCB-179 22'33'566'-HpCB	35.49	J	1.0086	1.0087	+0.2	2.10E+05	1.07	1.13	5.36	1.16E+03	0.293
PCB-184 22'344'66'-HpCB	35.94	J	1.0216	1.0217	+0.2	4.18E+04	1.05	1.06	1.14	1.16E+03	0.313
PCB-176 22'33'466'-HpCB	36.24	J	1.0300	1.0300	0	5.24E+04	1.09	1.15	1.31	1.16E+03	0.288
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.16E+03	0.309
PCB-178 22'33'55'6-HpCB	37.77	J	1.0733	1.0734	+0.2	6.46E+04	1.10	0.77	2.4	1.16E+03	0.427
PCB-175 22'33'45'6-HpCB	38.32	J	1.0887	1.0892	+1.1	2.03E+04	0.98	1.07	0.576	1.82E+03	0.534
PCB-187 22'34'55'6-HpCB	38.54		1.0952	1.0954	+0.5	5.46E+05	1.07	1.15	14.5	1.82E+03	0.498
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.82E+03	0.487
PCB-183 22'344'5'6-HpCB	39.06	J	1.1101	1.1103	+0.5	2.70E+05	1.05	1.20	6.9	1.82E+03	0.48
PCB-185 22'3455'6-HpCB	39.15	J	1.1125	1.1129	+0.9	3.30E+04	1.06	1.10	0.912	1.82E+03	0.519
PCB-174 22'33'456'-HpCB	39.26		1.1156	1.1159	+0.7	3.44E+05	0.95	0.94	11.2	1.82E+03	0.612
PCB-177 22'33'45'6'-HpCB	39.63	J	1.1262	1.1264	+0.5	1.86E+05	1.04	0.92	6.16	1.82E+03	0.621
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.82E+03	0.535
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1417	+1.0	9.71E+04	0.95	0.94	3.16	1.82E+03	0.612
PCB-172 22'33'455'-HpCB	41.51	J	0.9080	0.9079	-0.2	6.53E+04	1.06	0.98	2.04	1.82E+03	0.586
PCB-192 233'455'6-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.82E+03	0.445
PCB-180/193 ...-HpCB	42.07	C	0.9194	0.9200	+1.5	8.90E+05	1.07	1.24	21.8	1.82E+03	0.461
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.38	ND	1.82E+03	0.415
PCB-170 22'33'44'5-HpCB	43.13		0.9434	0.9433	-0.3	3.20E+05	0.97	1.13	10.4	1.82E+03	0.641
PCB-190 233'44'56-HpCB	43.59	J	0.9533	0.9532	-0.3	8.65E+04	0.95	1.60	1.99	1.82E+03	0.455
PCB-202 22'33'55'66'-OoCB	39.73	J EMPC	1.0005	1.0004	-0.2	5.93E+04	1.13	1.05	1.64	1.49E+03	0.415
PCB-201 22'33'45'66'-OoCB	40.52	J EMPC	1.0203	1.0202	-0.2	3.12E+04	0.71	1.14	0.796	1.49E+03	0.382
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.49E+03	0.407
PCB-197 22'33'44'66'-OoCB	41.28	J EMPC	1.0396	1.0395	-0.2	1.53E+04	1.30	1.10	0.405	1.49E+03	0.397
PCB-200 22'33'4566'-OoCB	41.38	J EMPC	1.0418	1.0418	0	2.23E+04	0.67	1.08	0.601	1.49E+03	0.403
PCB-198/199 ...-OoCB	43.72	J C	1.1001	1.1008	+1.8	1.85E+05	1.01	0.74	7.25	1.49E+03	0.588
PCB-196 22'33'44'56'-OoCB	44.28	J	1.1146	1.1148	+0.5	7.15E+04	0.82	0.80	2.62	1.49E+03	0.55
PCB-203 22'344'55'6-OoCB	44.44	J EMPC	1.1188	1.1189	+0.3	8.08E+04	0.70	0.83	2.83	1.49E+03	0.525
PCB-195 22'33'44'56-OoCB	45.57	J	0.9516	0.9515	-0.3	3.74E+04	0.80	0.72	1.82	1.16E+03	0.623
PCB-194 22'33'44'55'-OoCB	47.51	J	0.9921	0.9921	0	9.82E+04	0.99	0.81	4.28	1.16E+03	0.559
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.16E+03	0.425
PCB-208 22'33'455'66'-NoCB	45.36	J	1.0005	1.0004	-0.3	3.71E+04	0.72	1.12	1.04	3.20E+03	0.913
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.18	ND	3.20E+03	0.872
PCB-206 22'33'44'55'6-NoCB	49.37	J	1.0004	1.0005	+0.3	6.81E+04	0.86	1.11	3.05	3.20E+03	1.53



SGS ID: A6521\_11903\_PCB\_004-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

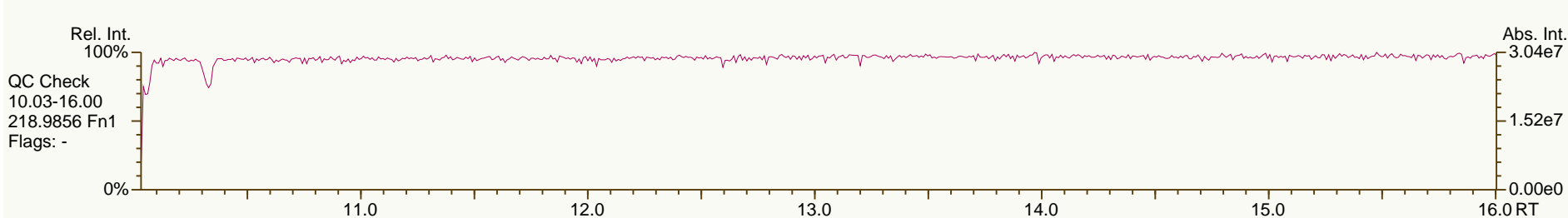
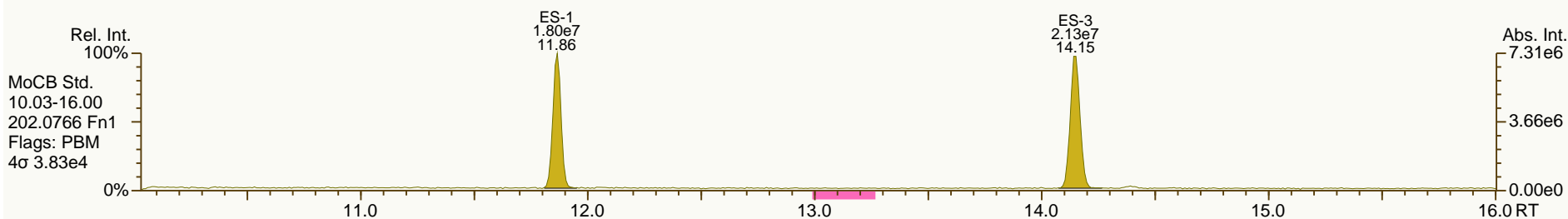
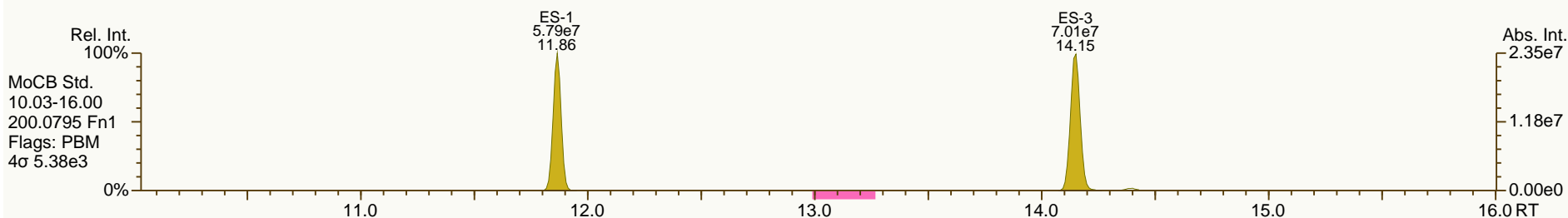
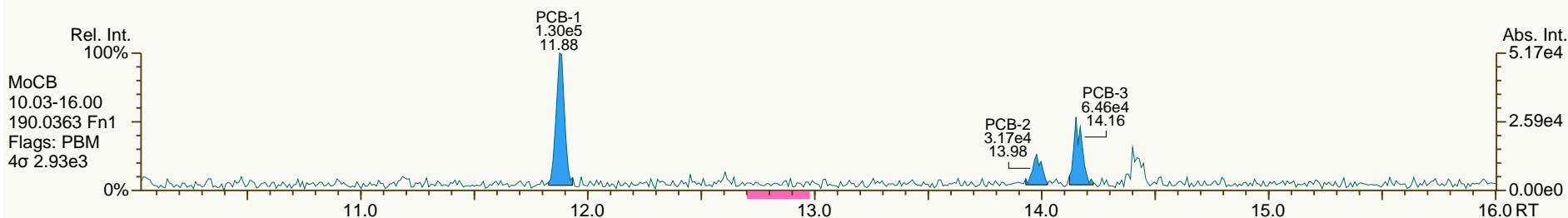
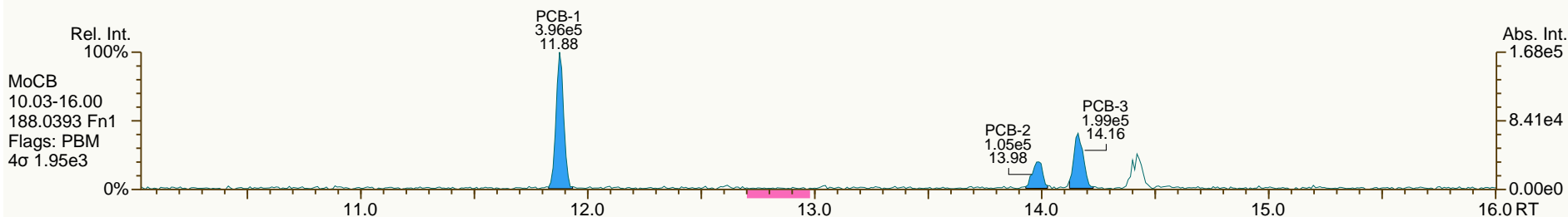
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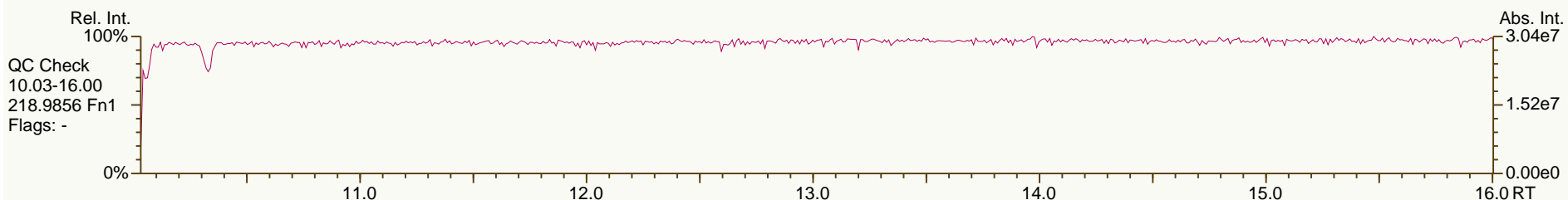
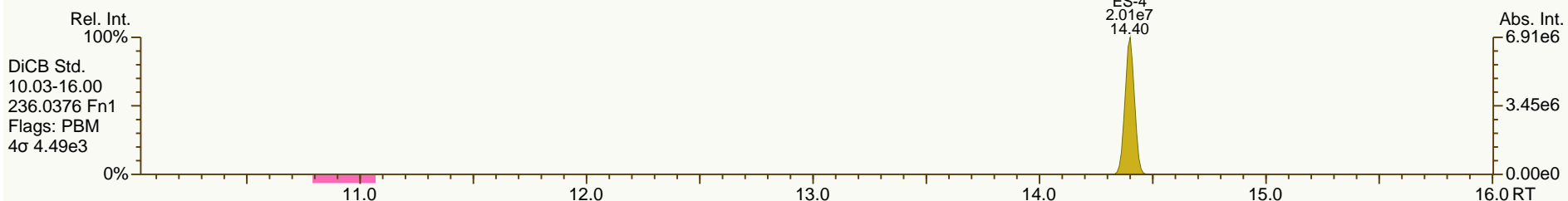
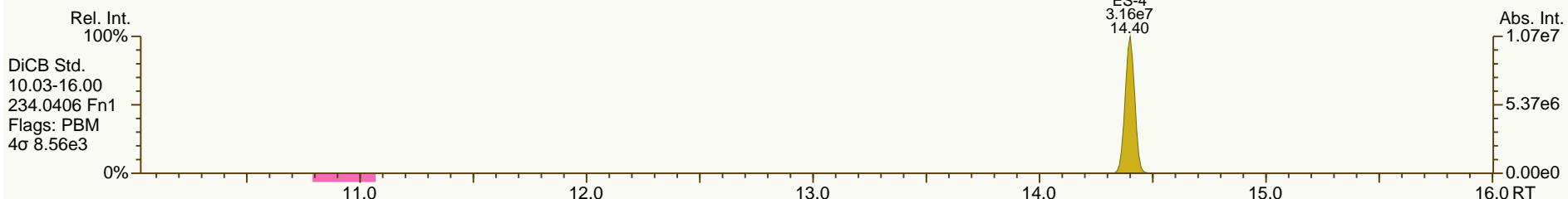
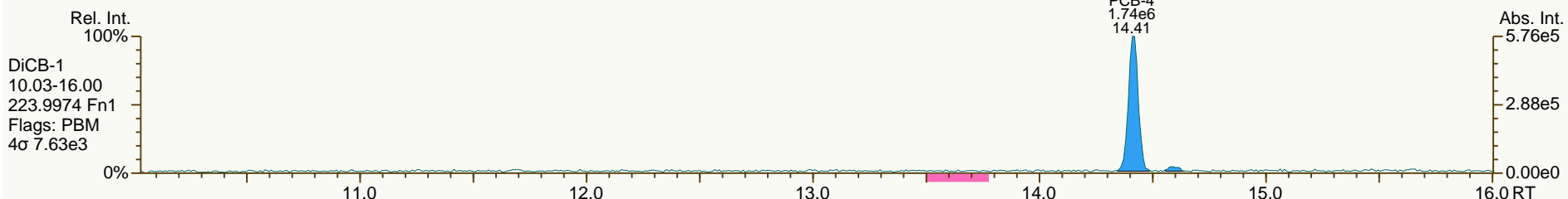
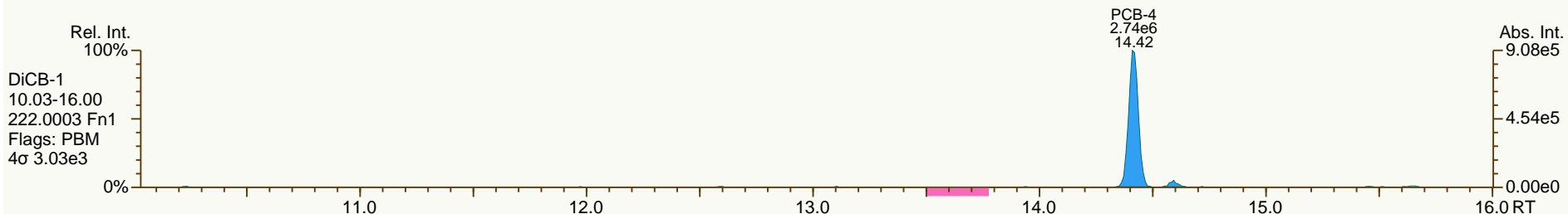
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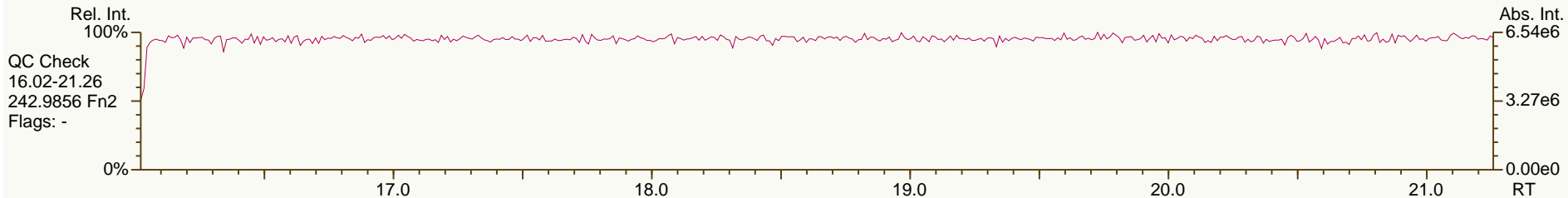
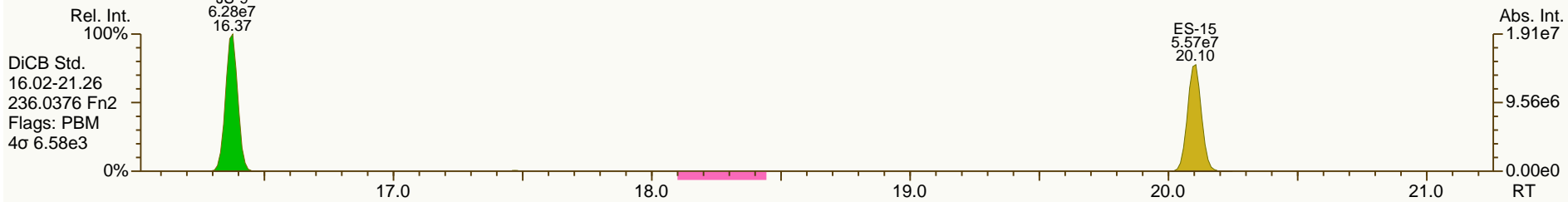
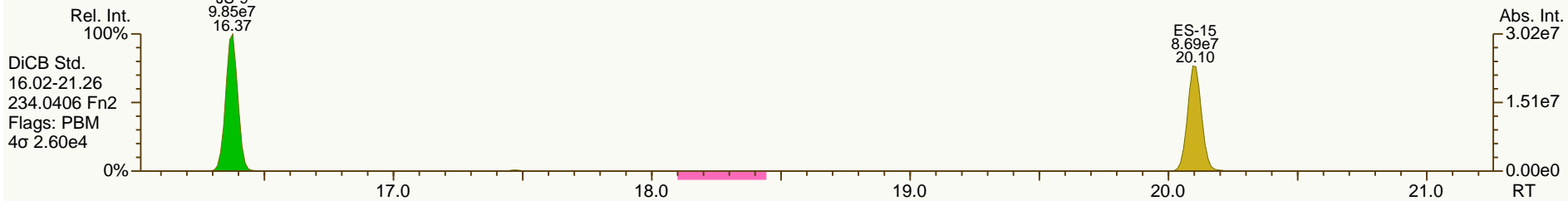
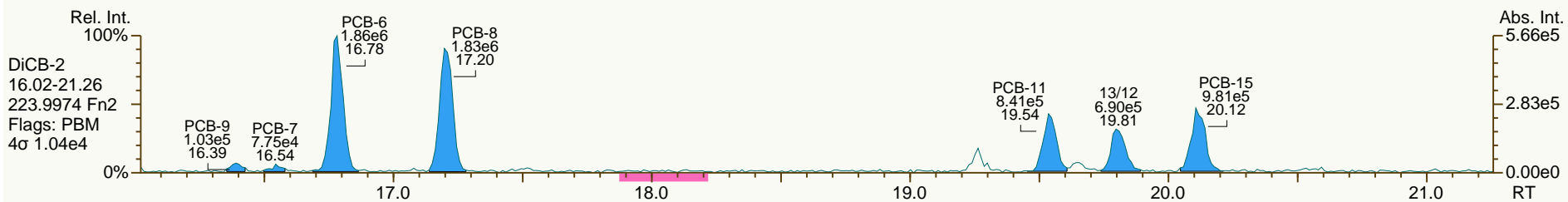
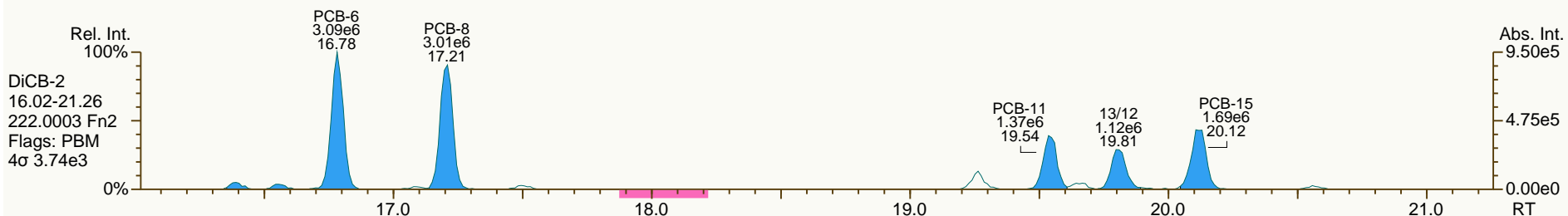
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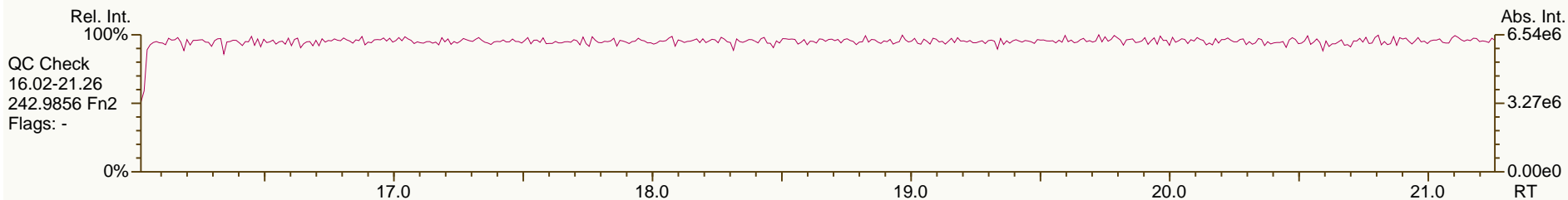
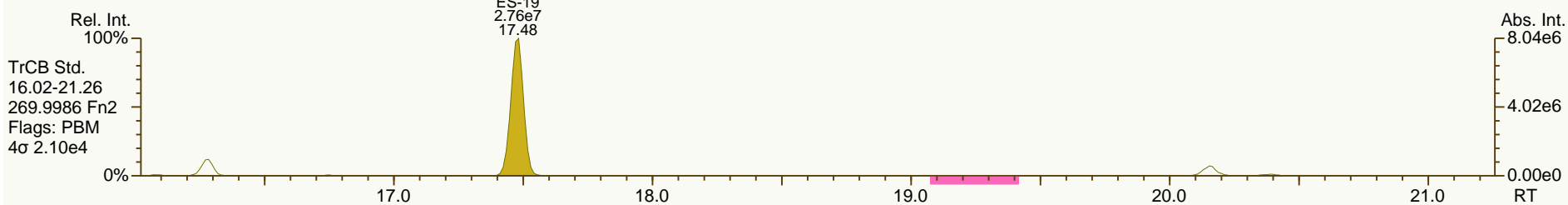
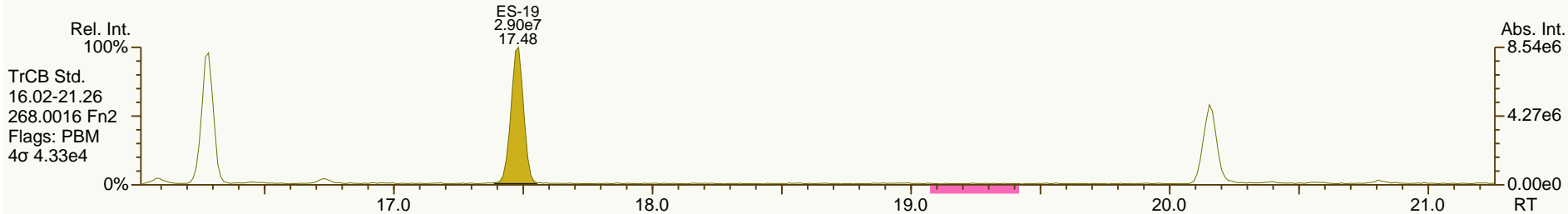
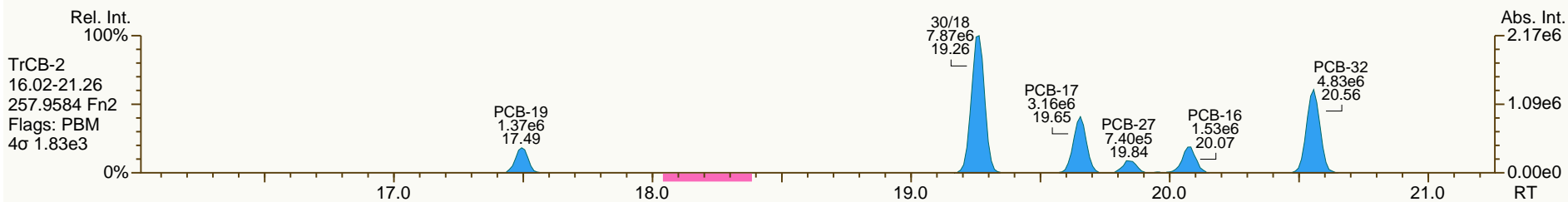
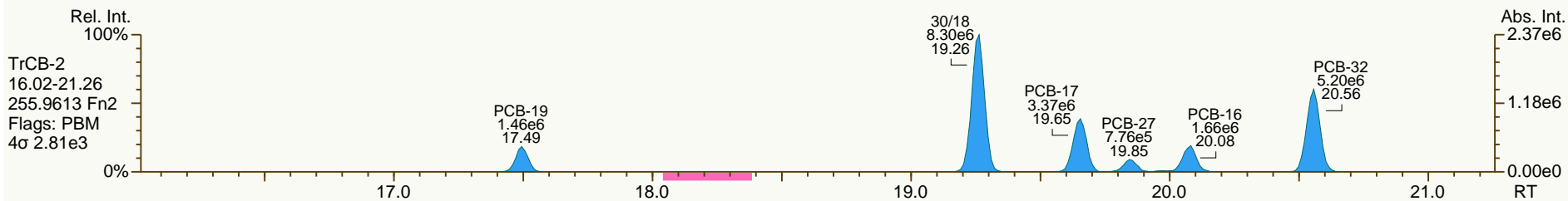
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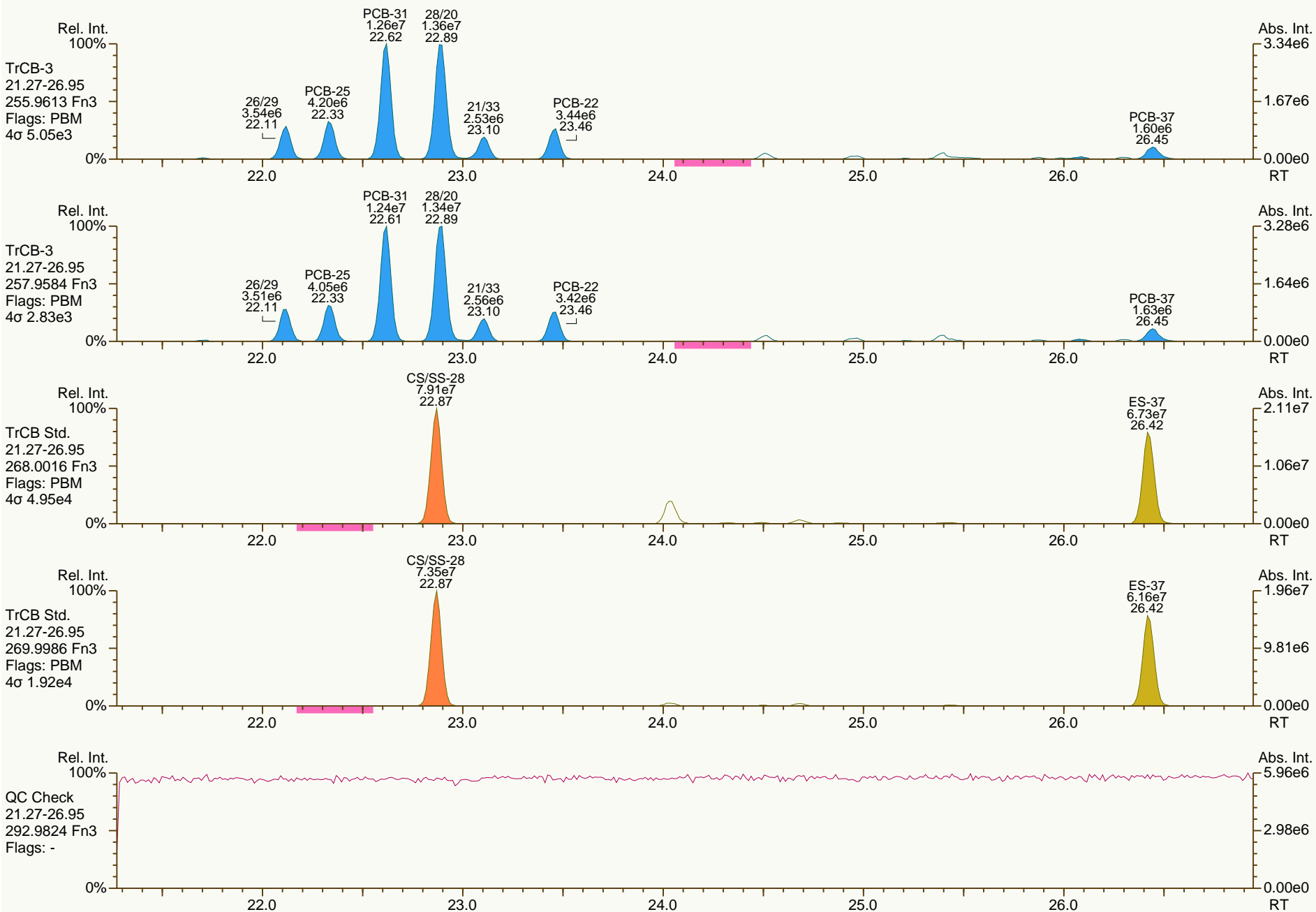
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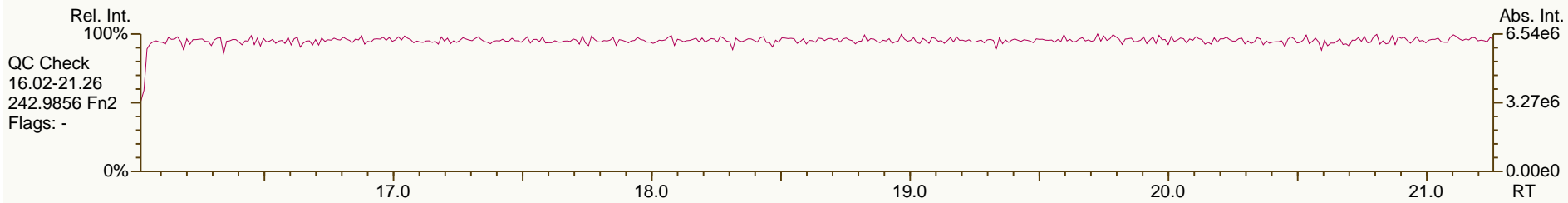
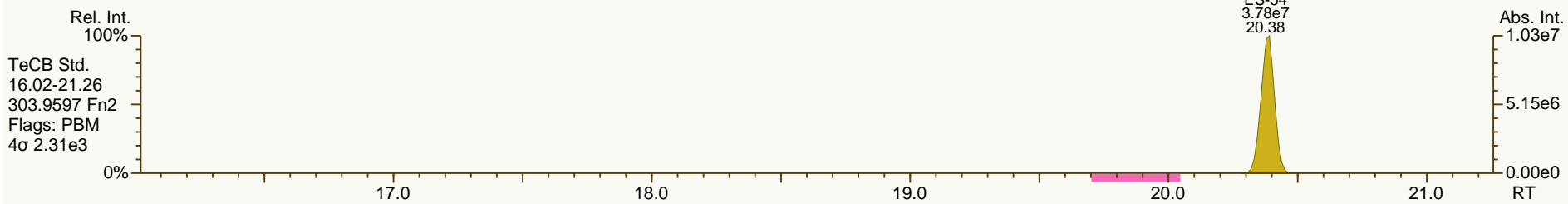
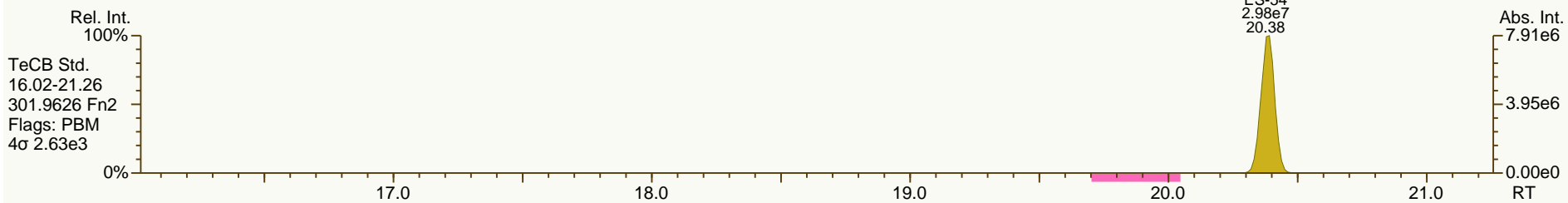
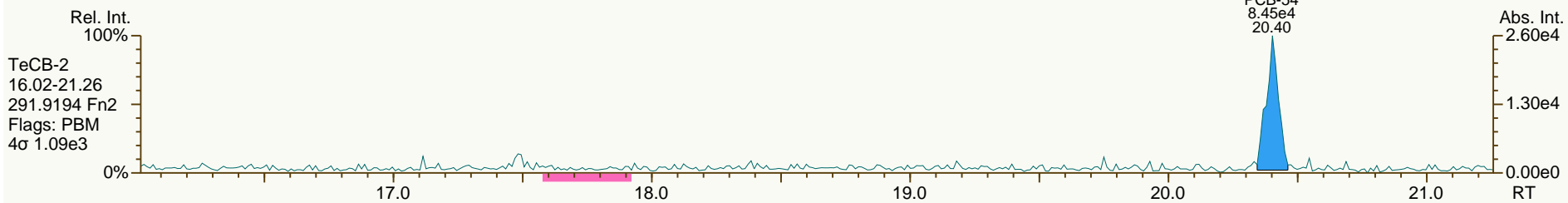
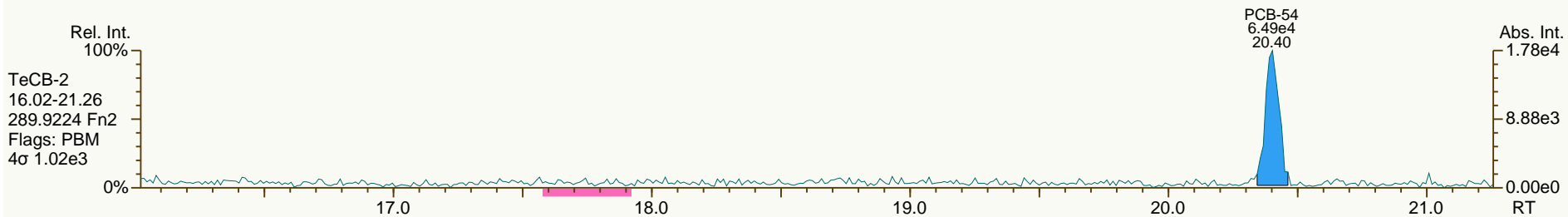
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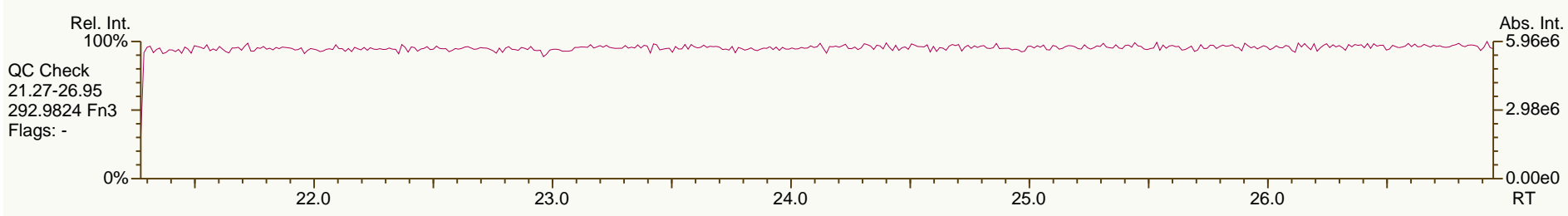
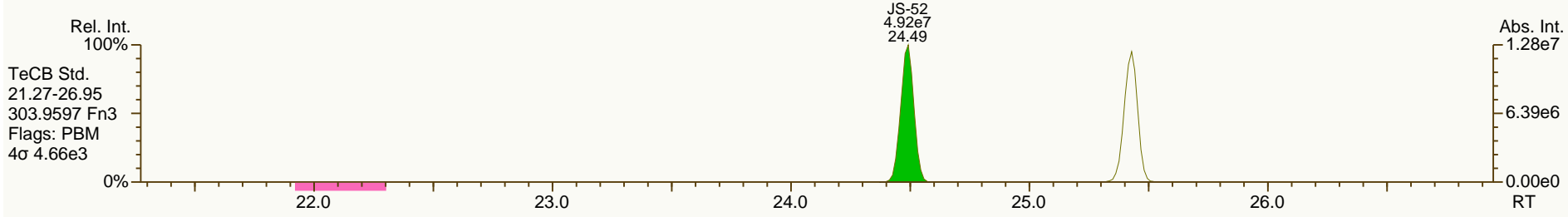
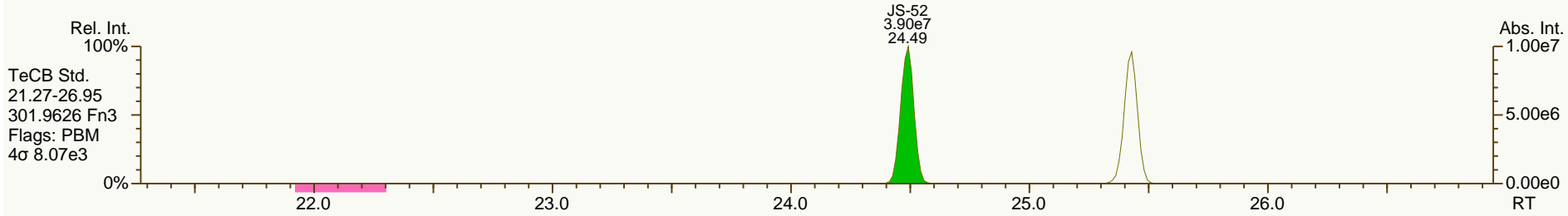
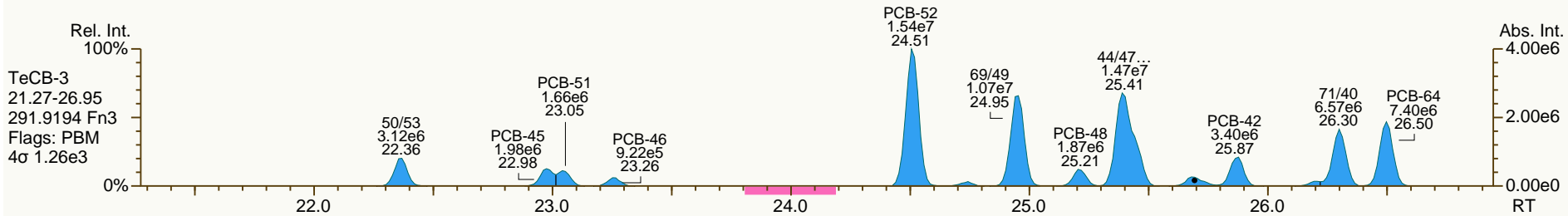
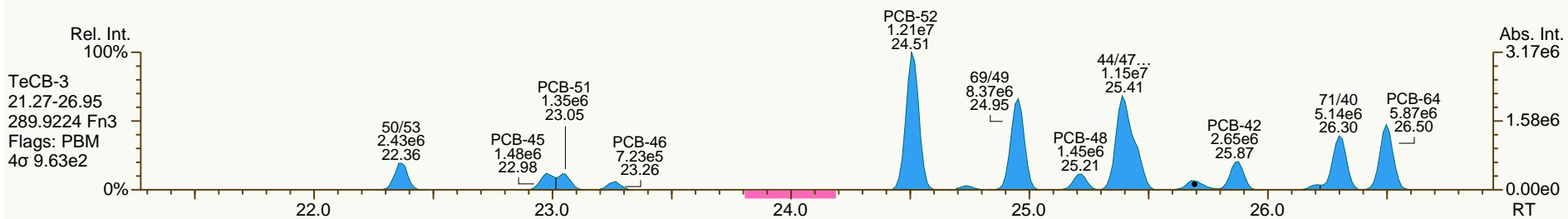
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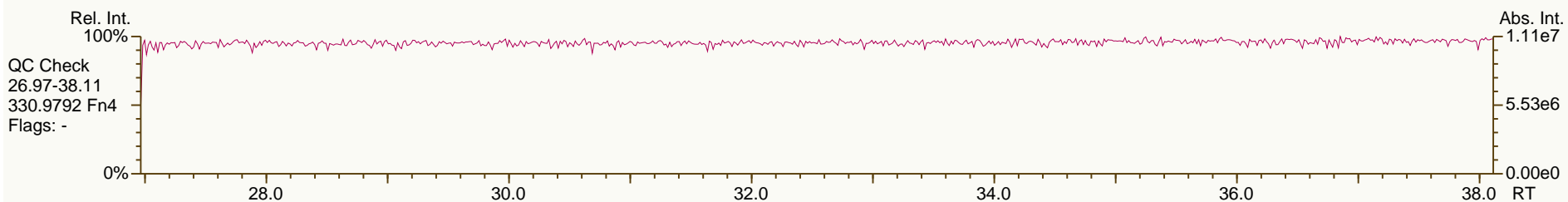
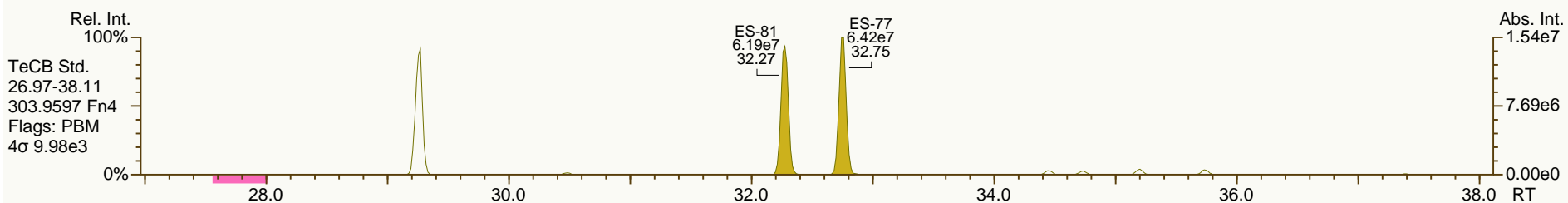
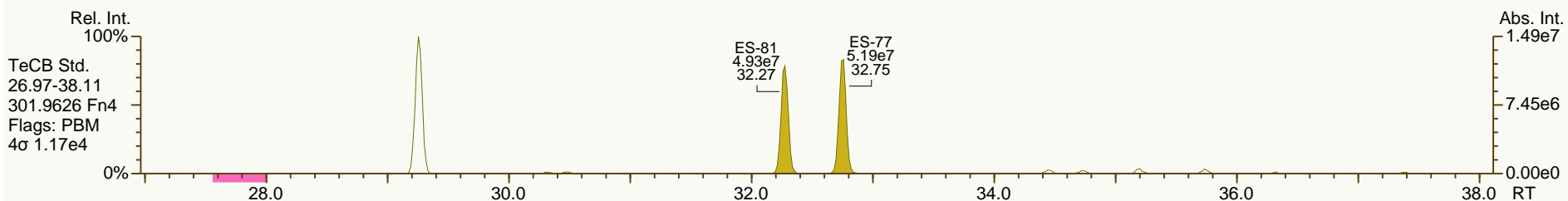
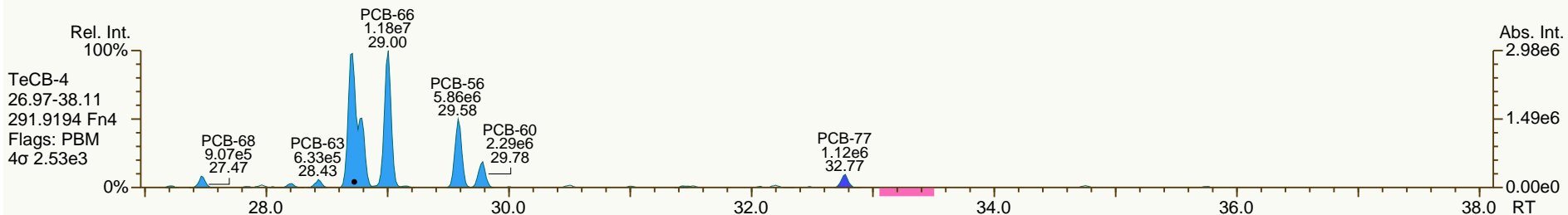
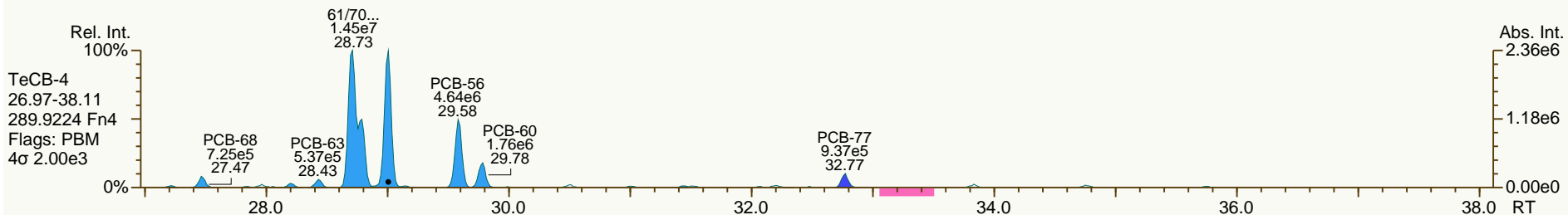




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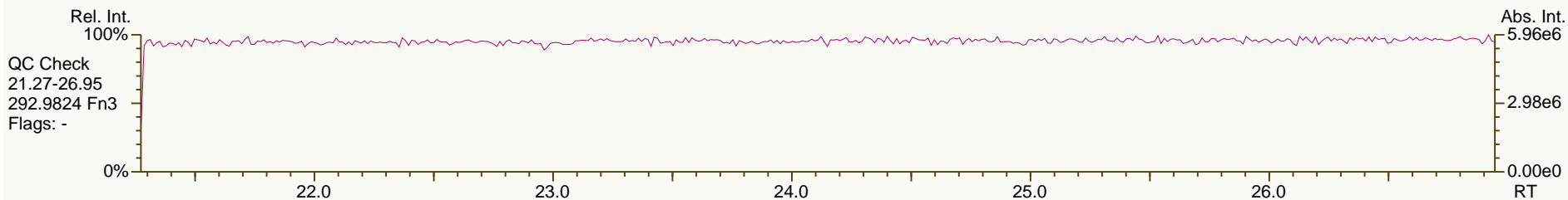
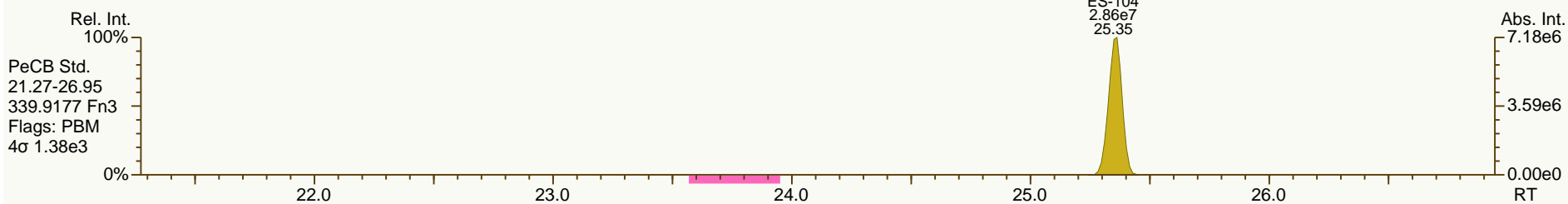
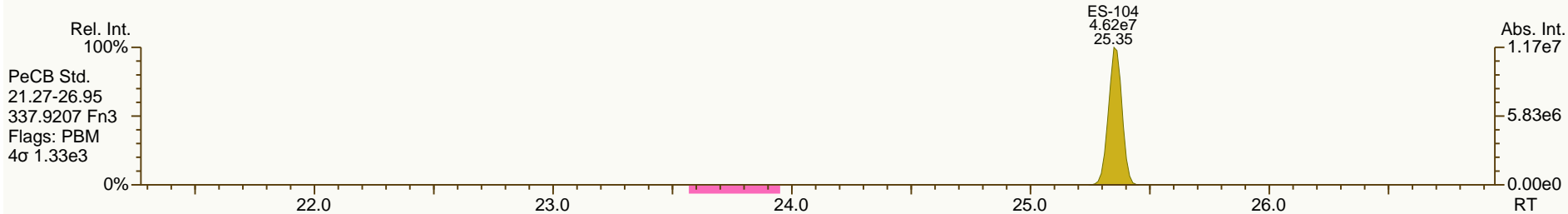
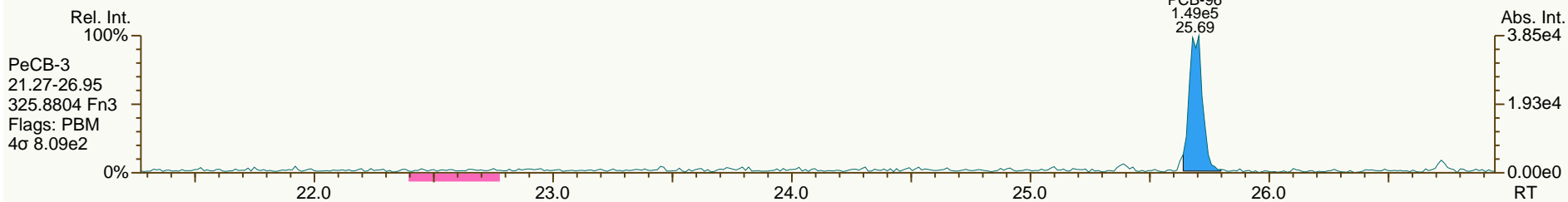
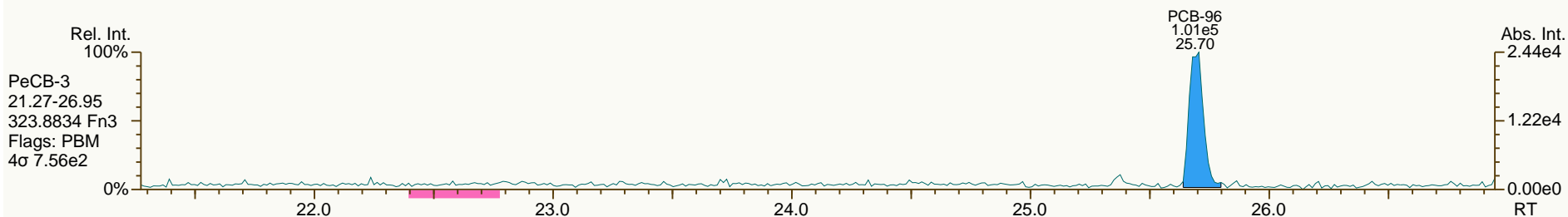
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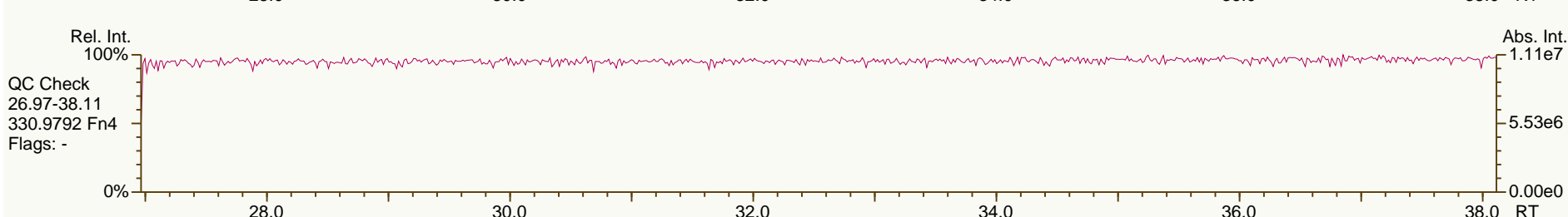
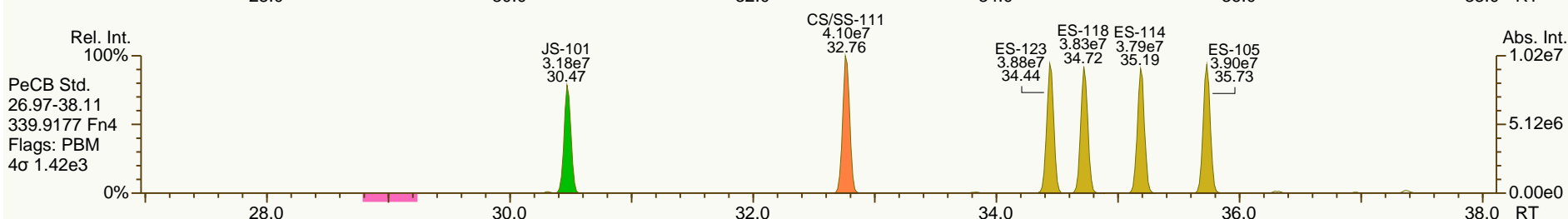
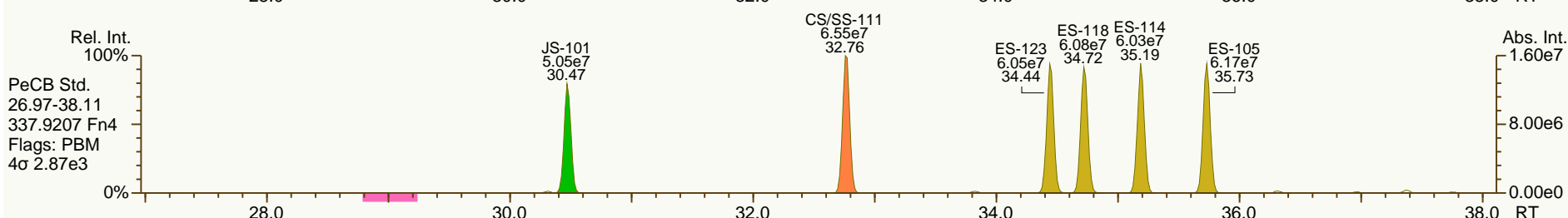
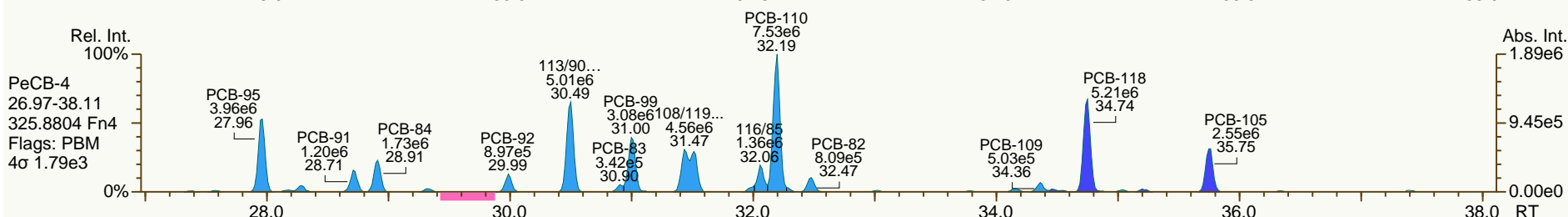
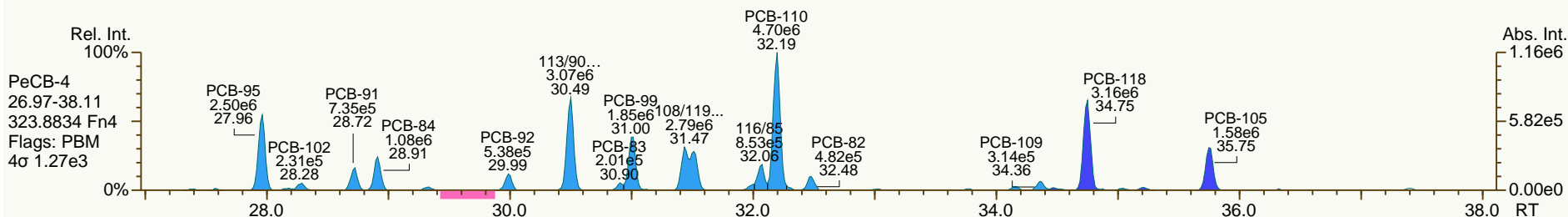
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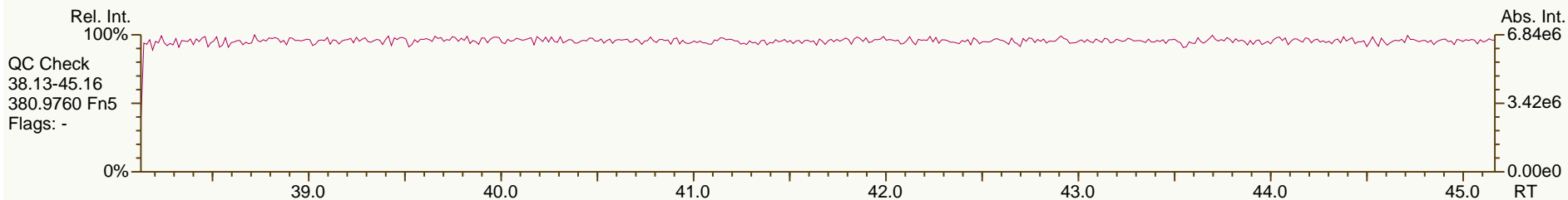
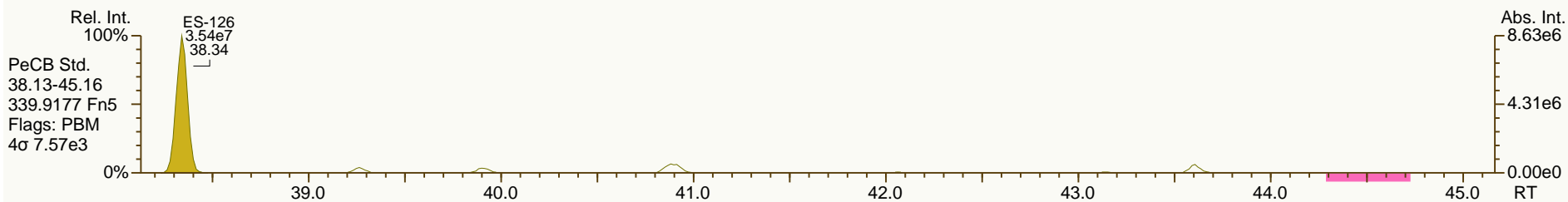
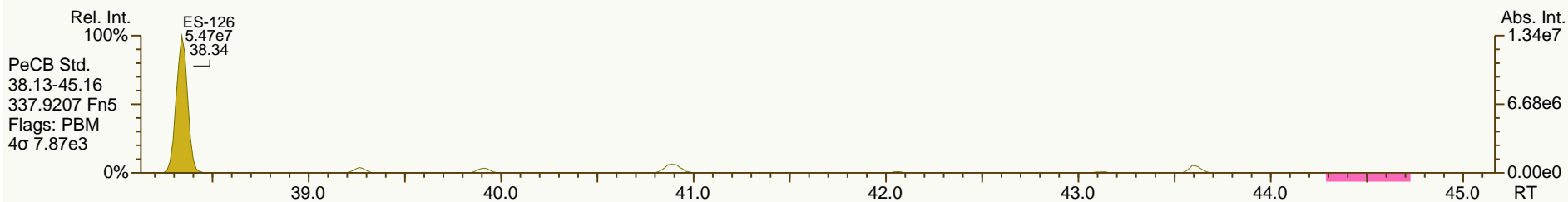
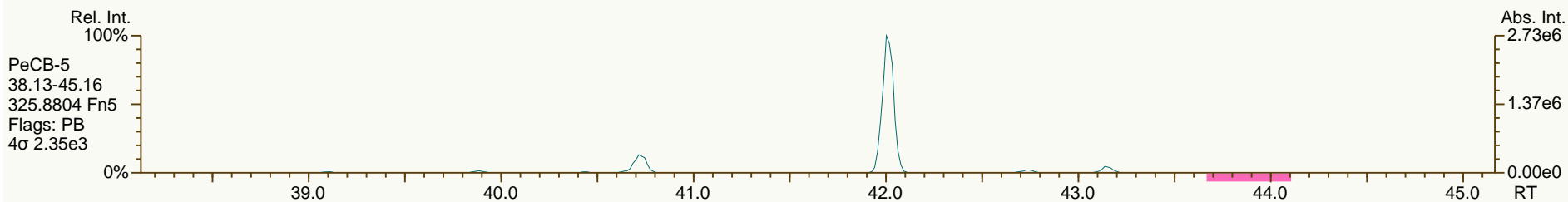
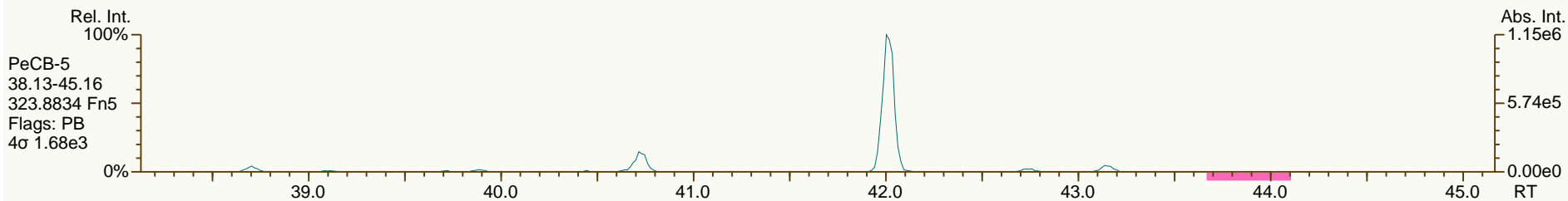
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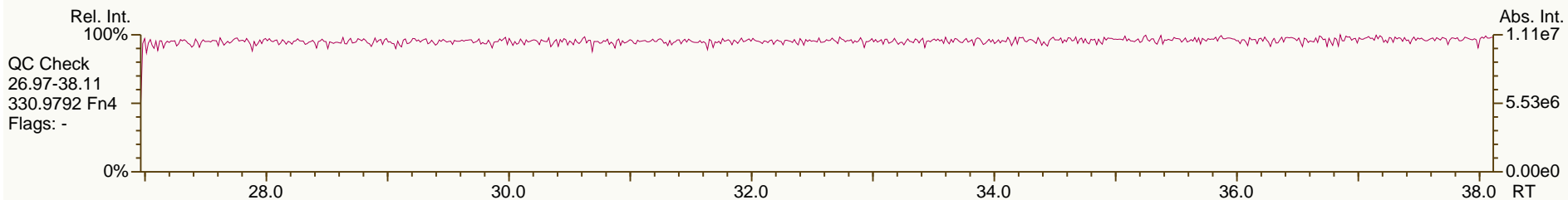
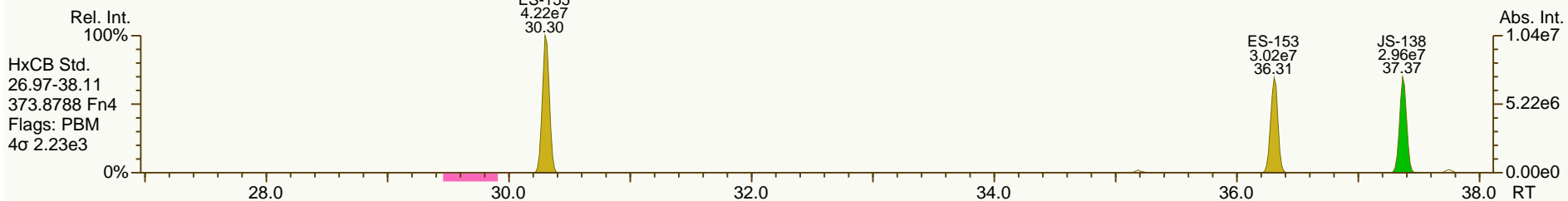
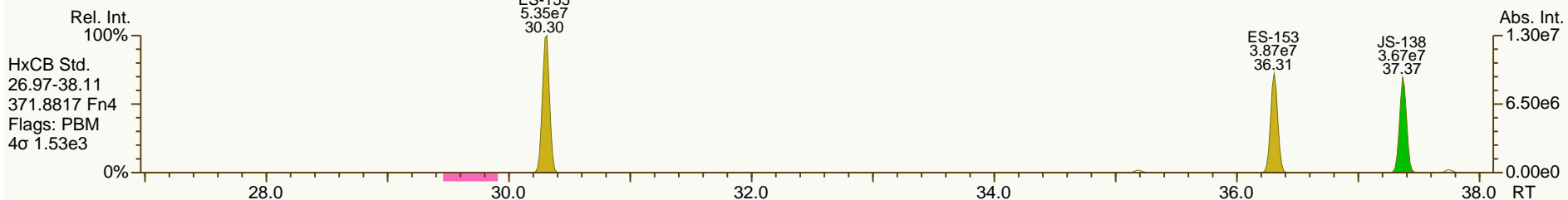
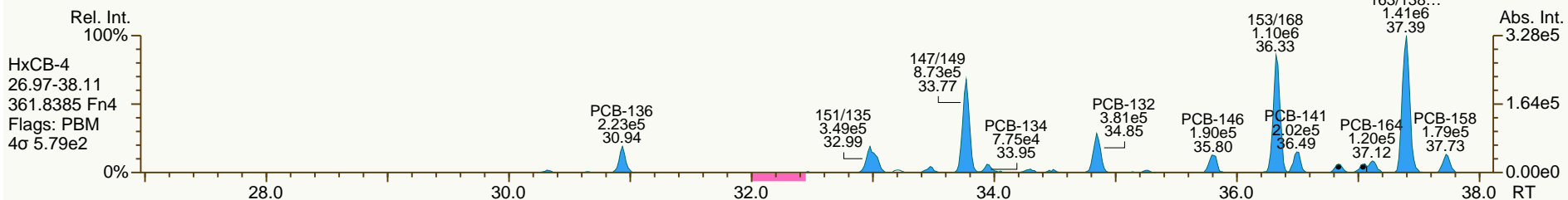
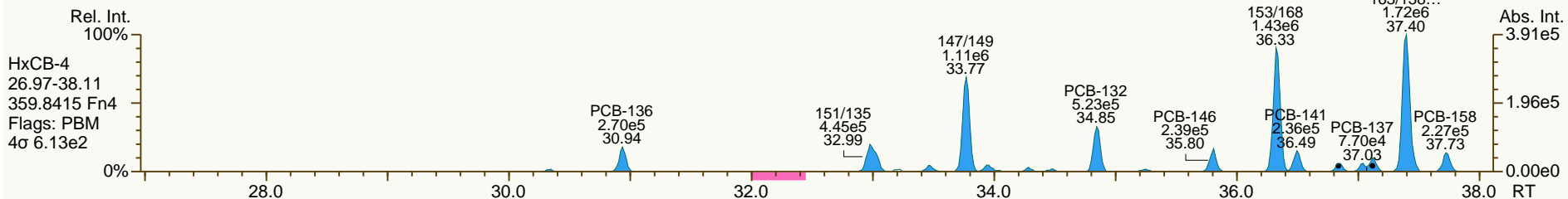
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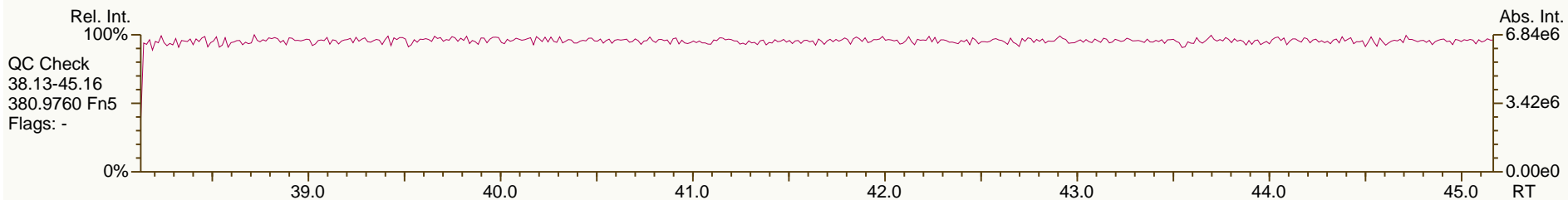
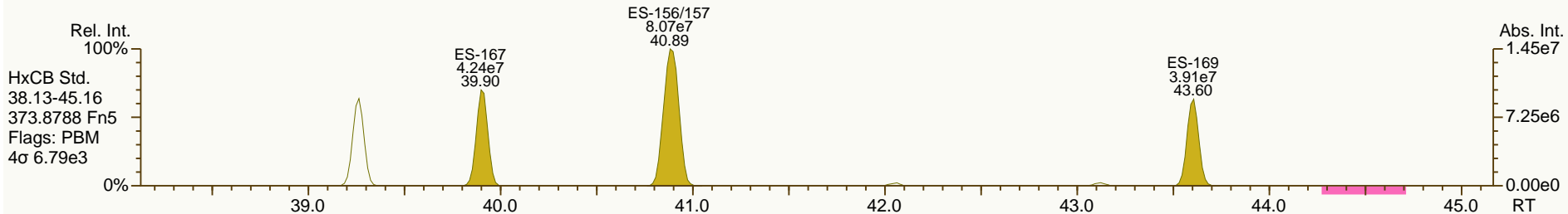
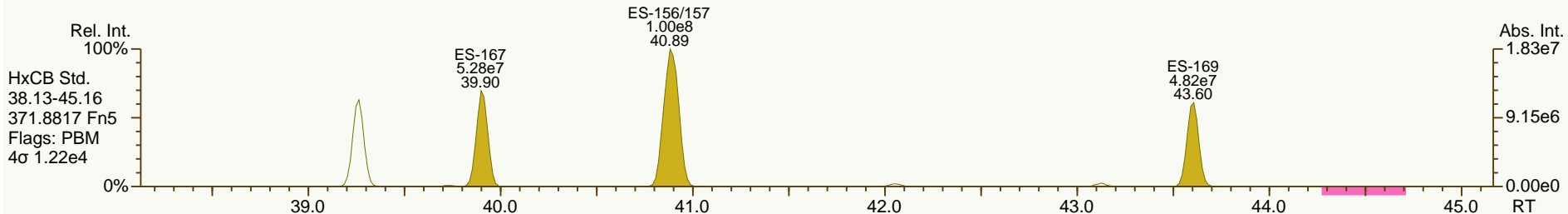
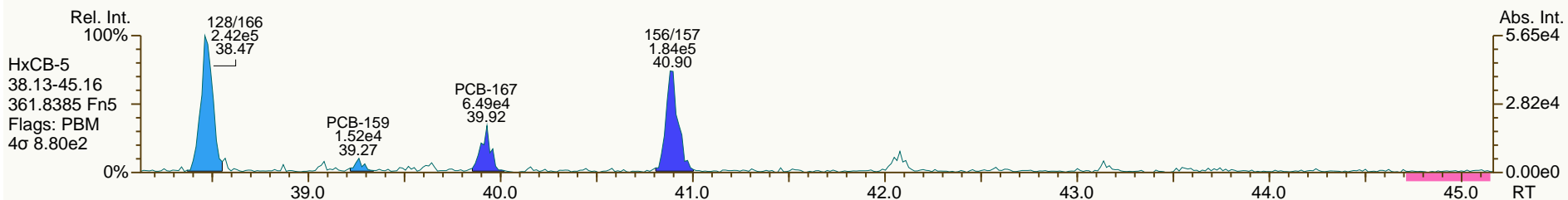
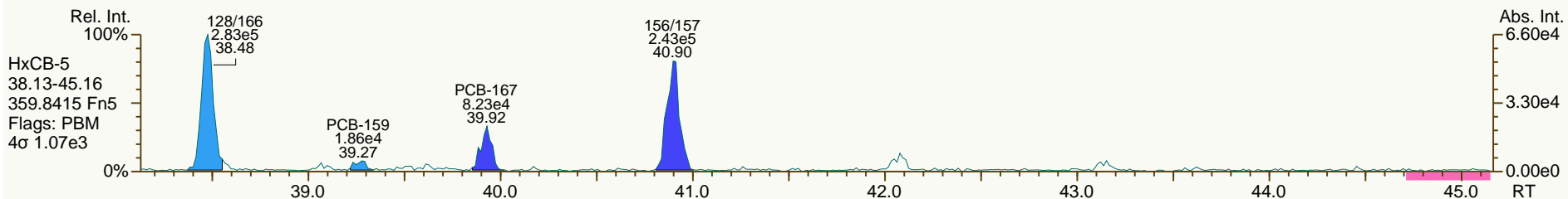
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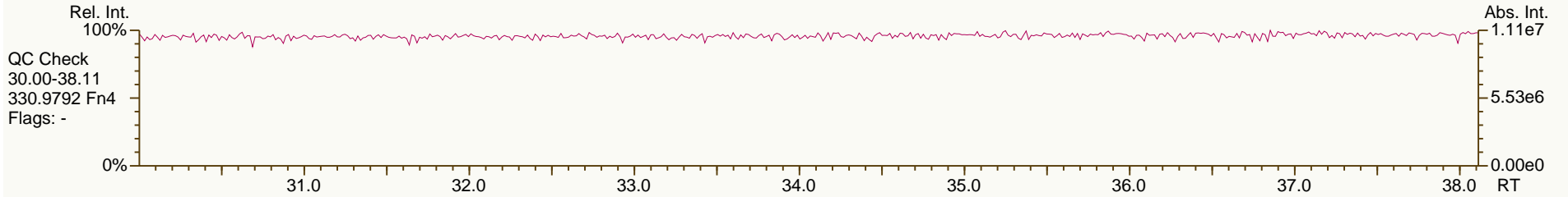
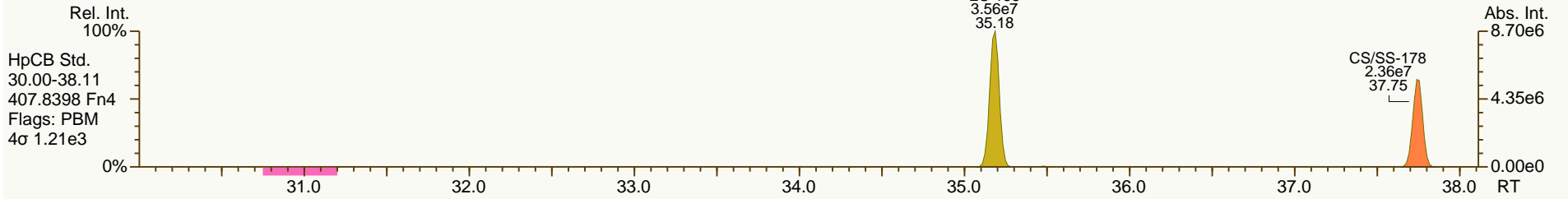
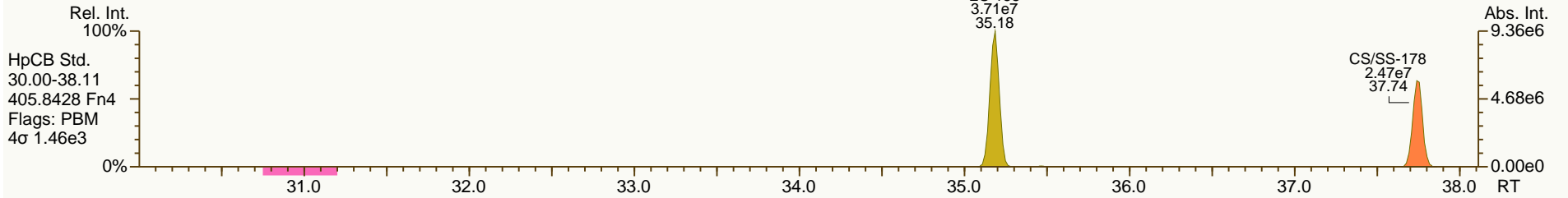
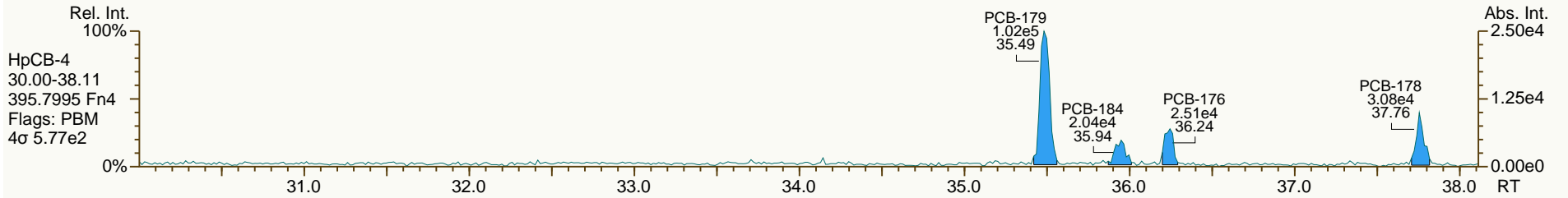
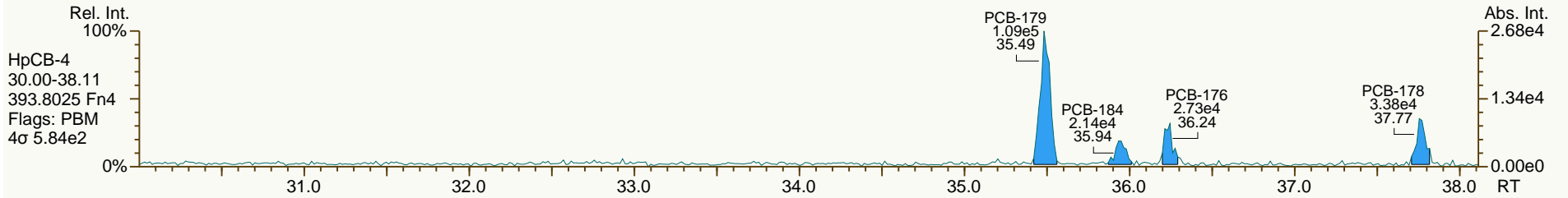
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SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

Acq: 29-Mar-2014 00:21:02  
 User: LKB Datafile: 140328X15



SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

Acq: 29-Mar-2014 00:21:02  
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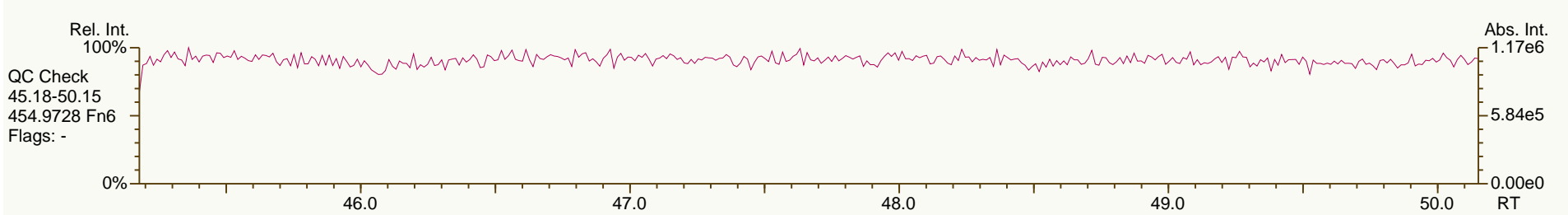
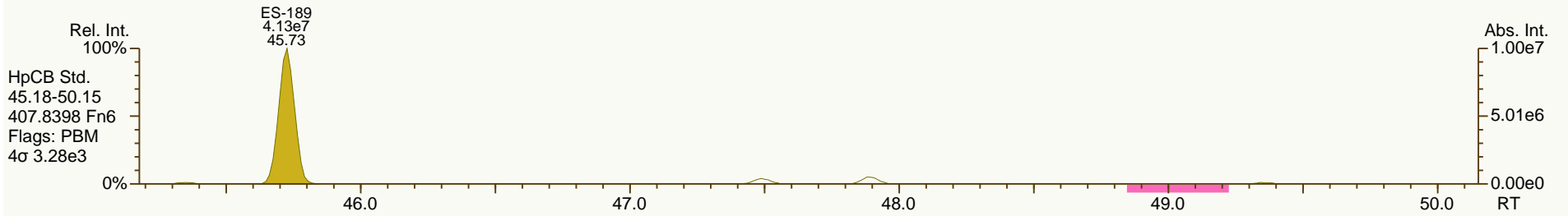
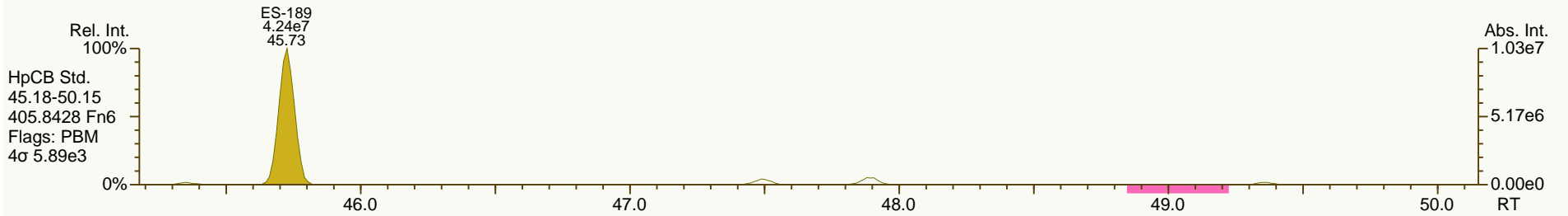
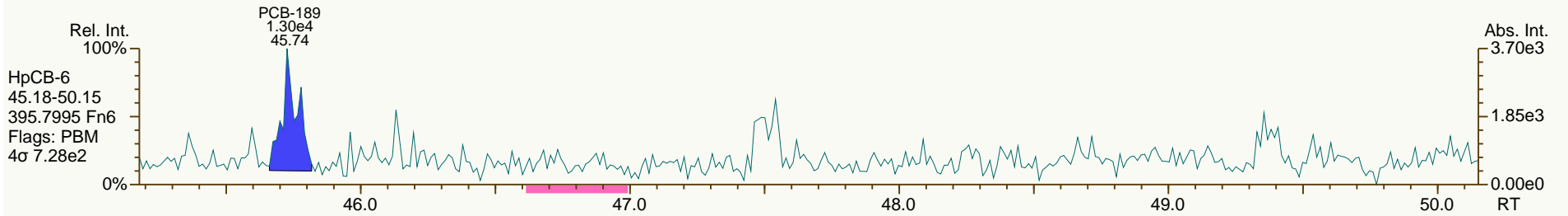
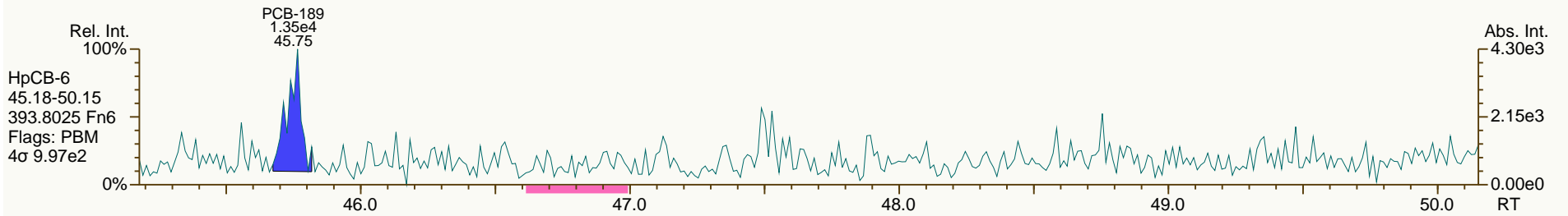




SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

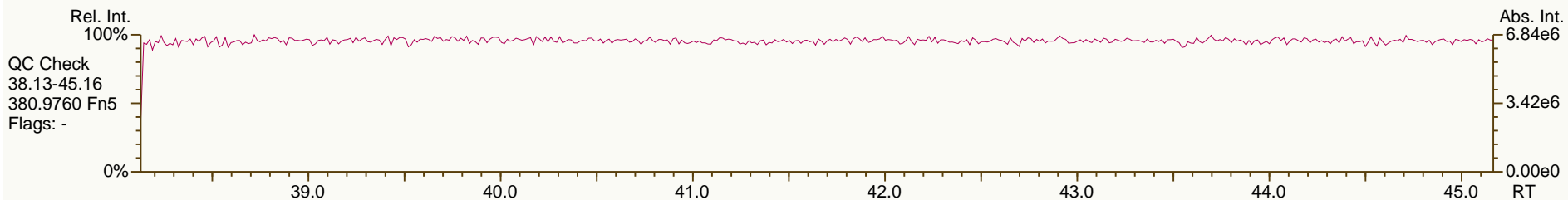
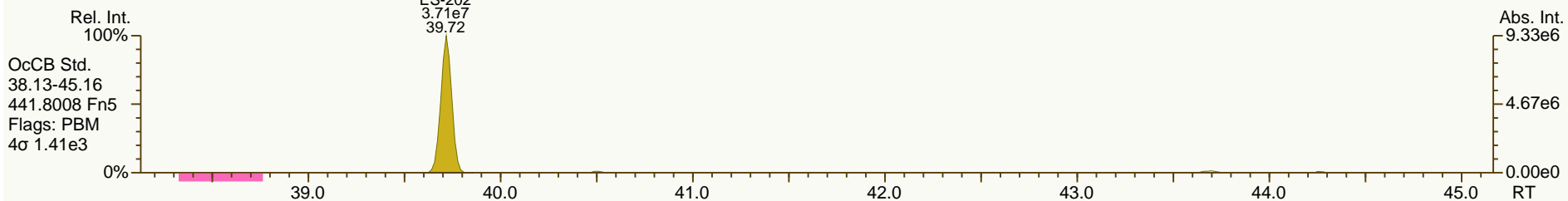
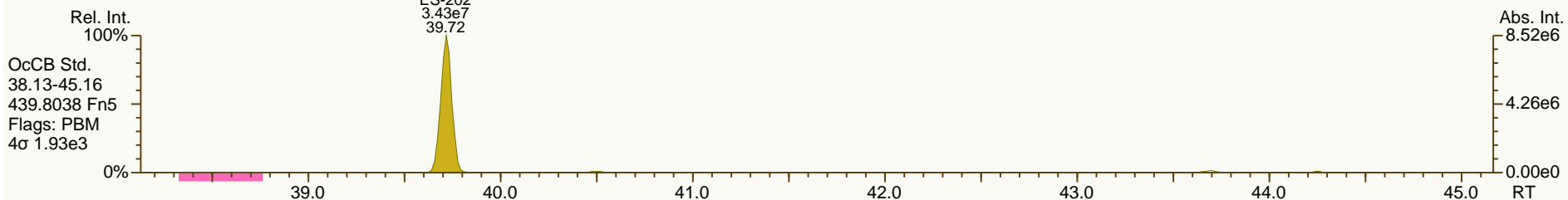
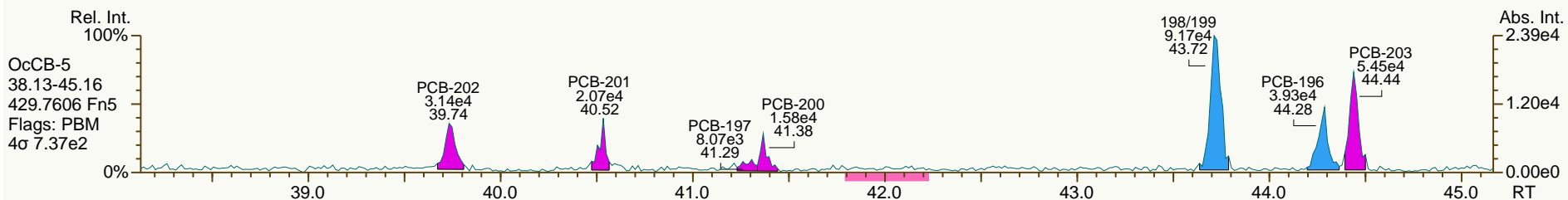
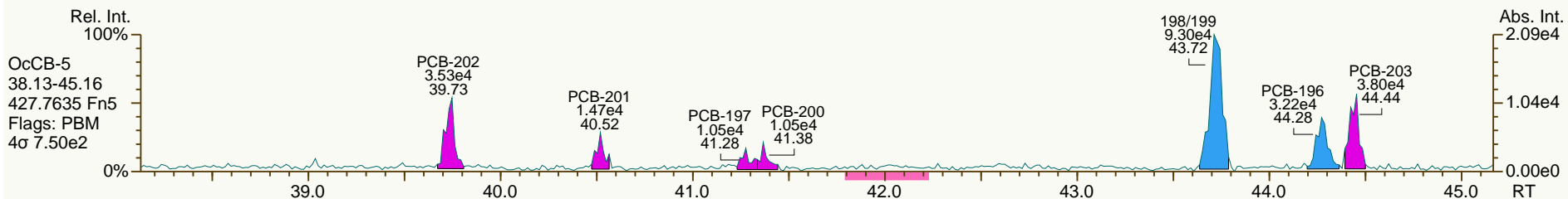
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SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

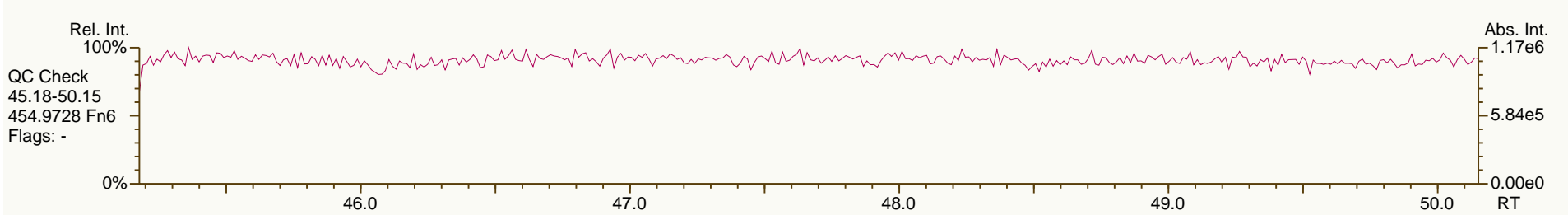
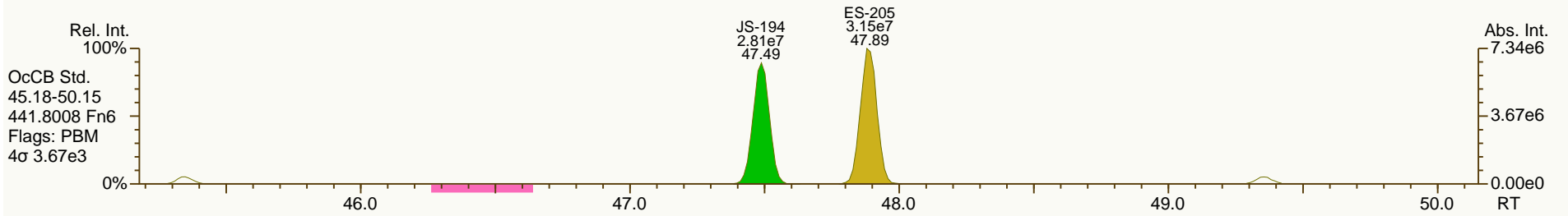
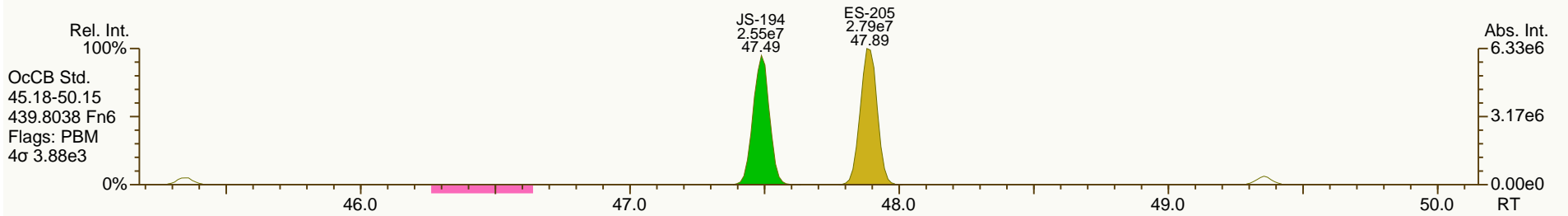
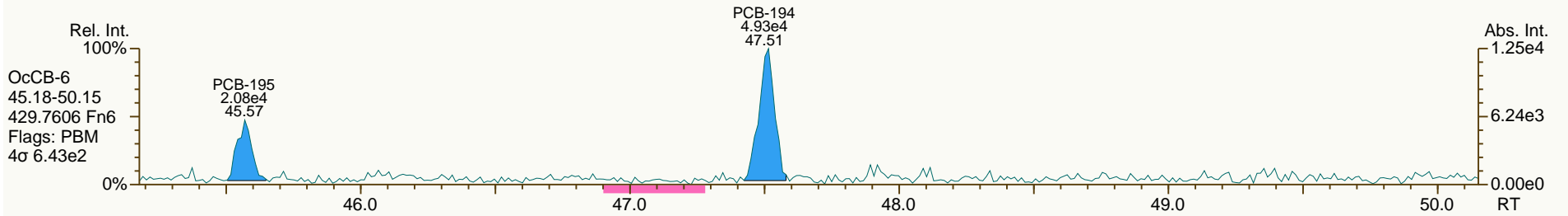
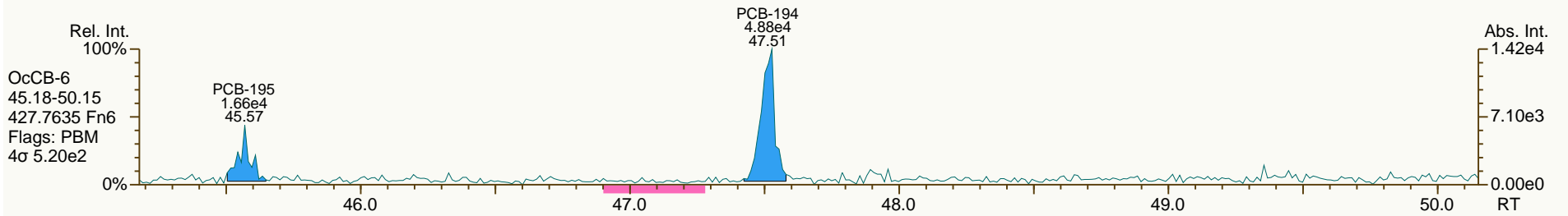
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SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

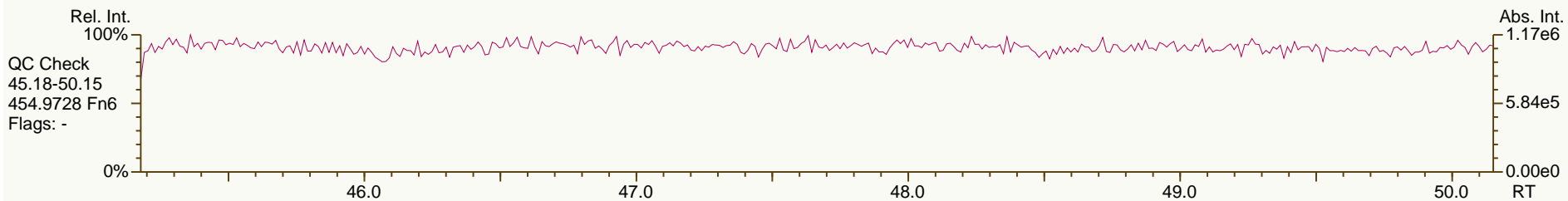
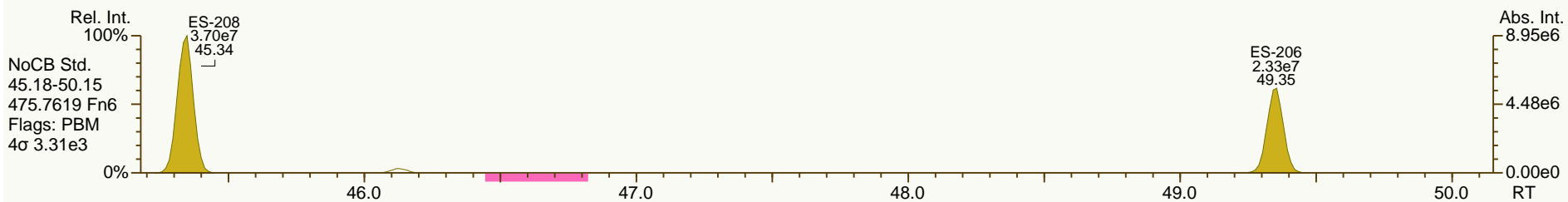
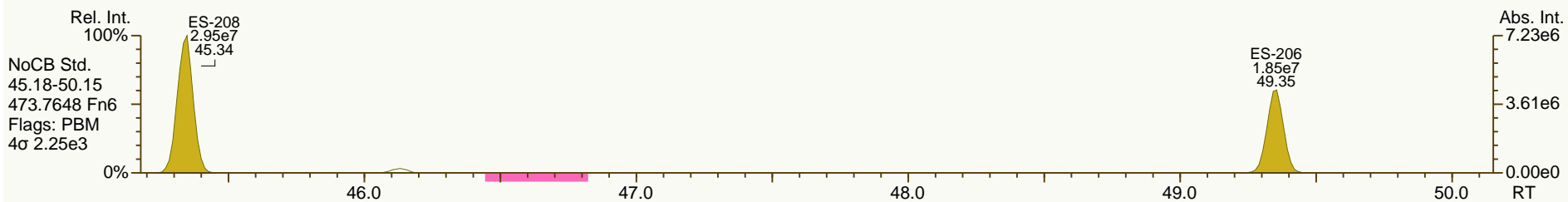
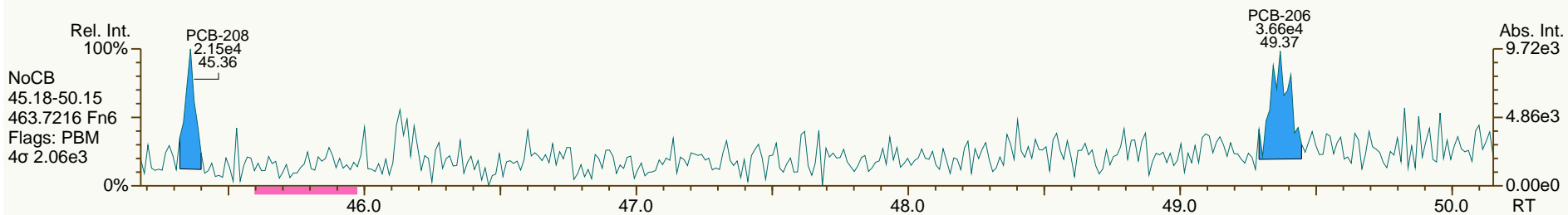
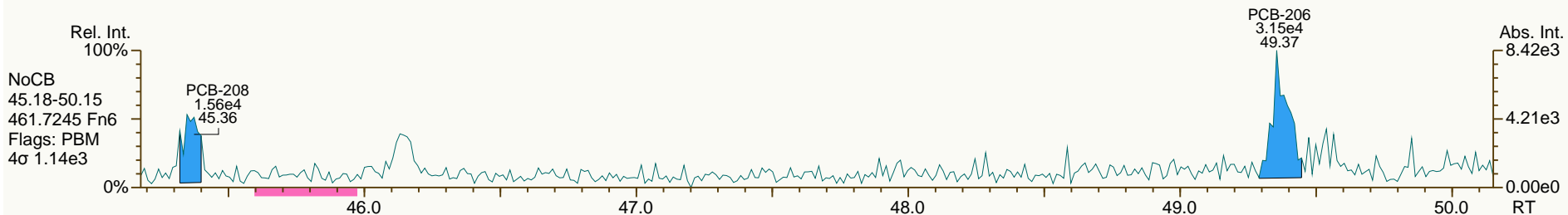
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SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

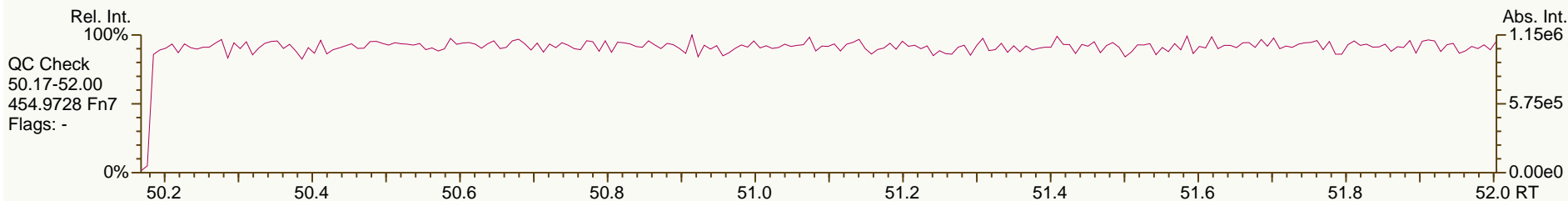
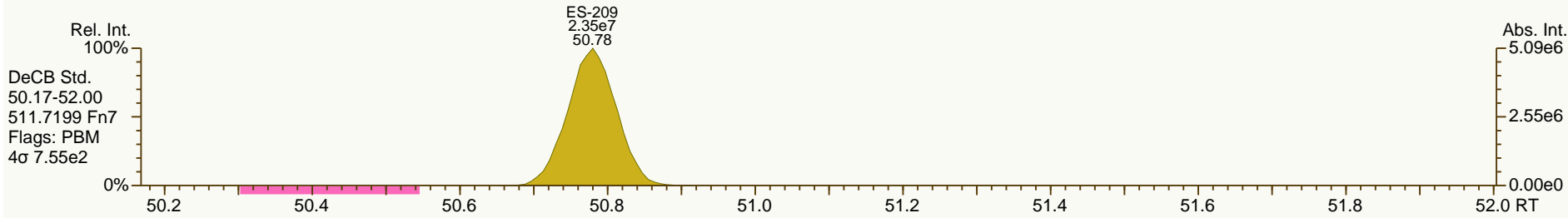
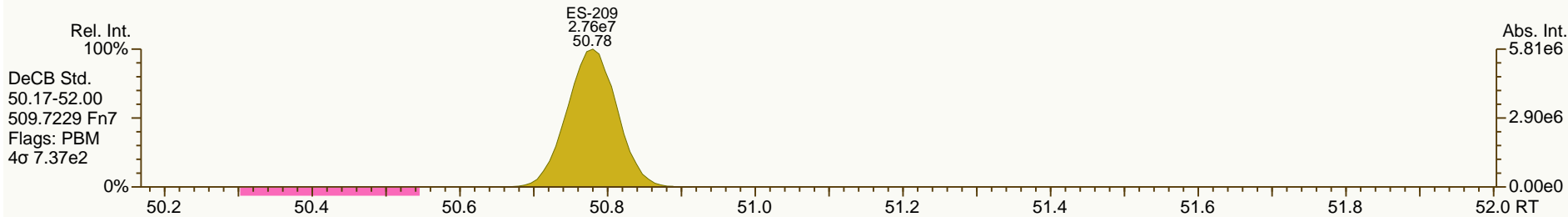
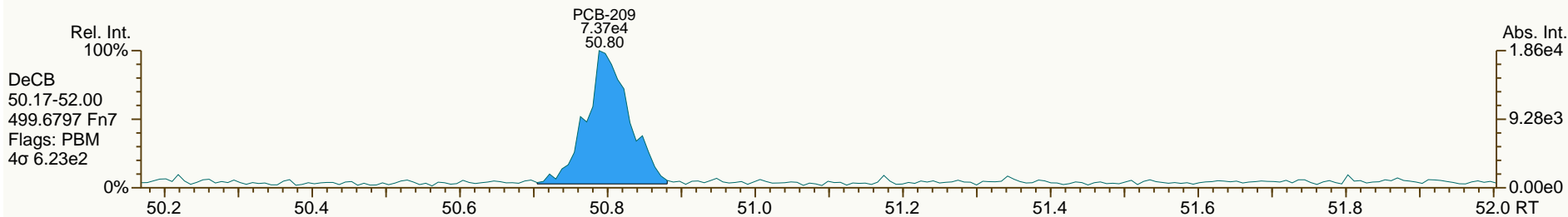
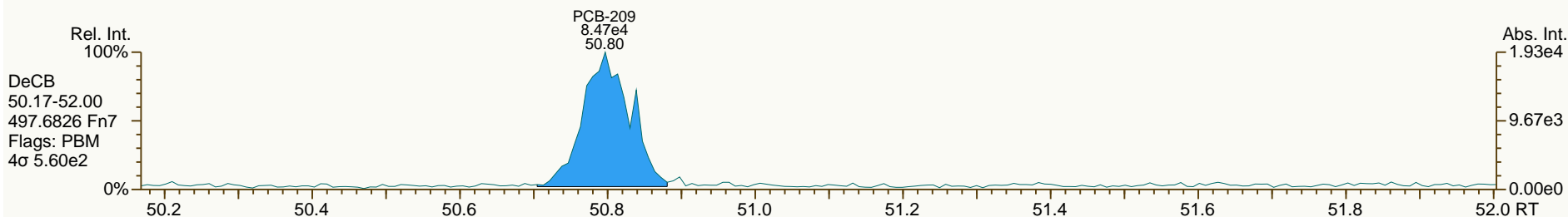
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SGS ID: A6521\_11903\_PCB\_004-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB091-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 82

Acq: 29-Mar-2014 00:21:02  
 User: LKB Datafile: 140328X15



Lab ID: A6521\_11903\_PCB\_005-RJ  
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Wt/Vol: 1.22 L  
 J-level: 8.19 pg/L Split: 1  
 Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB  
 Checkcode: 596-561-ZBW  
 Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0006	0	1.77E+06	0.78	1.15	21.1	6.19E+03	0.773
PCB-81 344'5'-TeCB	32.28	J	1.0005	1.0003	-0.4	1.02E+05	0.73	1.12	1.3	6.19E+03	0.813
PCB-105 233'44'-PeCB	35.75		1.0006	1.0006	0	3.52E+06	0.62	1.11	49.7	3.39E+03	0.477
PCB-114 2344'5'-PeCB	35.21	J	1.0007	1.0006	-0.2	2.13E+05	0.71	1.20	2.83	3.39E+03	0.479
PCB-118 23'44'5'-PeCB	34.75		1.0006	1.0006	0	7.17E+06	0.61	1.19	97	3.39E+03	0.472
PCB-123 23'44'5'-PeCB	34.47	J	1.0006	1.0007	+0.2	2.25E+05	0.62	1.21	2.99	3.39E+03	0.457
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	4.66E+03	0.751
PCB-156/157 ...-HxCB	40.90	J C	1.0005	1.0002	-0.7	3.75E+05	1.23	1.10	6.03	1.47E+03	0.329
PCB-167 23'44'55'-HxCB	39.93	J EMPC	1.0006	1.0005	-0.2	1.21E+05	1.03	1.16	1.77	1.47E+03	0.226
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.47E+03	0.254
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.38E+03	0.261
PCB-209 DeCB	50.80	J	1.0004	1.0004	0	1.57E+05	1.23	1.11	4.56	1.27E+03	0.43
ES PCB-1	11.87		0.7245	0.7246	+0.1	9.34E+07	3.21	1.19	47.1 %	15%	150%
ES PCB-3	14.15		0.8640	0.8641	+0.1	1.06E+08	3.26	1.09	58.9 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	6.20E+07	1.58	0.52	71.3 %	25%	150%
ES PCB-15	20.10		1.2271	1.2277	+0.7	1.62E+08	1.56	1.04	93.5 %	25%	150%
ES PCB-19	17.48		1.0673	1.0673	0	6.90E+07	1.05	0.51	82 %	25%	150%
ES PCB-37	26.43		1.0787	1.0791	+0.6	1.36E+08	1.09	1.66	91.4 %	25%	150%
ES PCB-54	20.39		0.8328	0.8325	-0.4	7.92E+07	0.79	0.86	102 %	25%	150%
ES PCB-77	32.75		1.3364	1.3374	+2.0	1.20E+08	0.80	1.38	96.4 %	25%	150%
ES PCB-81	32.27		1.3170	1.3179	+1.7	1.15E+08	0.79	1.37	93.5 %	25%	150%
ES PCB-104	25.36		0.8325	0.8321	-0.6	8.10E+07	1.60	0.80	123 %	25%	150%
ES PCB-105	35.73		1.1720	1.1725	+1.1	1.04E+08	1.61	1.20	106 %	25%	150%
ES PCB-114	35.19		1.1543	1.1547	+0.8	1.02E+08	1.61	1.22	102 %	25%	150%
ES PCB-118	34.73		1.1391	1.1395	+0.8	1.02E+08	1.59	1.16	107 %	25%	150%
ES PCB-123	34.44		1.1299	1.1303	+0.8	1.02E+08	1.59	1.19	104 %	25%	150%
ES PCB-126	38.34		1.2575	1.2582	+1.6	9.37E+07	1.53	1.03	111 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	7.37E+07	1.25	1.11	100 %	25%	150%
ES PCB-155	30.31		0.8114	0.8110	-0.7	1.03E+08	1.26	1.59	99.5 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0942	+0.7	1.86E+08	1.24	1.60	89.3 %	25%	150%
ES PCB-167	39.91		1.0677	1.0678	+0.2	9.65E+07	1.25	1.67	88.9 %	25%	150%
ES PCB-169	43.60		1.1664	1.1668	+1.0	8.63E+07	1.25	1.56	85.2 %	25%	150%
ES PCB-170	43.12		0.9081	0.9079	-0.5	5.72E+07	1.07	0.95	105 %	25%	150%
ES PCB-180	42.05		0.8856	0.8854	-0.5	7.01E+07	1.07	1.14	110 %	25%	150%
ES PCB-188	35.18		0.7413	0.7408	-1.1	7.35E+07	1.07	0.94	120 %	25%	150%
ES PCB-189	45.73		0.9629	0.9629	0	8.33E+07	1.02	1.58	101 %	25%	150%
ES PCB-202	39.72		0.8366	0.8364	-0.5	7.29E+07	0.93	0.97	116 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	6.00E+07	0.90	1.24	92.3 %	25%	150%
ES PCB-206	49.35		1.0392	1.0392	0	4.11E+07	0.80	0.83	94.8 %	25%	150%
ES PCB-208	45.34		0.9549	0.9548	-0.3	6.86E+07	0.80	1.17	112 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	5.08E+07	1.18	1.11	87.5 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9339	0	1.66E+08	1.08	1.11	110 %	30%	135%
SS PCB-111	32.77		1.0750	1.0752	+0.4	1.15E+08	1.58	1.03	110 %	30%	135%
SS PCB-178	37.75		1.0100	1.0101	+0.2	5.16E+07	1.07	0.62	113 %	30%	135%
CS PCB-28	22.87		0.9339	0.9339	0	1.66E+08	1.08	1.85	100 %	30%	135%
CS PCB-111	32.77		1.0750	1.0752	+0.4	1.15E+08	1.58	1.22	114 %	30%	135%
CS PCB-178	37.75	V	1.0100	1.0101	+0.2	5.16E+07	1.07	0.58	136 %	30%	135%
JS PCB-9	16.38					1.66E+08	1.56				
JS PCB-52	24.49					8.97E+07	0.79				
JS PCB-101	30.48					8.22E+07	1.57				
JS PCB-138	37.37					6.50E+07	1.29				
JS PCB-194	47.49					5.23E+07	0.90				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			21.3		21.3		0.676	
			Di-CBs			320		321		0.685	
			Tri-CBs			1,540		1,540		1.04	
			Tetra-CBs			2,550		2,560		0.543	
			Penta-CBs			953		956		0.474	
			Hexa-CBs			223		227		0.248	
			Hepta-CBs			61.6		63.4		0.339	
			Octa-CBs			10.4		16		0.304	
			Nona-CBs			3.03		3.03		0.888	
PCB-1 2-MoCB	11.88		1.0011	1.0010	-0.1	7.47E+05	3.19	0.95	13.8	5.94E+03	0.676
PCB-2 3-MoCB	13.98	J	0.9880	0.9881	+0.1	1.90E+05	3.08	1.17	2.51	5.94E+03	0.585
PCB-3 4-MoCB	14.16	J B	1.0010	1.0009	-0.1	3.32E+05	3.11	1.01	5.06	5.94E+03	0.676
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	5.42E+06	1.56	1.23	116	5.06E+03	0.8
PCB-10 26'-DiCB	14.59	J	1.0135	1.0134	-0.1	2.34E+05	1.35	1.92	3.22	5.06E+03	0.512
PCB-9 25'-DiCB	16.40	J	1.0010	1.0012	+0.2	3.41E+05	1.33	0.97	3.57	6.31E+03	0.601
PCB-7 24'-DiCB	16.56	J	1.0111	1.0112	+0.1	2.47E+05	1.57	1.10	2.28	6.31E+03	0.529
PCB-6 23'-DiCB	16.78		1.0249	1.0250	+0.1	6.41E+06	1.62	1.03	63.2	6.31E+03	0.566
PCB-5 23'-DiCB	17.09	J EMPC	1.0433	1.0433	0	9.45E+04	1.28	1.03	0.926	6.31E+03	0.563
PCB-8 24'-DiCB	17.21		1.0506	1.0508	+0.2	5.34E+06	1.62	1.04	52.1	6.31E+03	0.561
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	6.31E+03	0.473
PCB-11 33'-DiCB	19.54	B	0.9721	0.9721	0	2.90E+06	1.64	1.06	27.6	6.31E+03	0.548
PCB-13/12 34'/34'-DiCB	19.81	C	0.9866	0.9855	-1.3	2.15E+06	1.63	1.06	20.6	6.31E+03	0.551
PCB-15 44'-DiCB	20.12		1.0008	1.0007	-0.1	3.10E+06	1.63	1.02	30.8	6.31E+03	0.57
PCB-19 22'6-TrCB	17.50		1.0010	1.0010	0	3.45E+06	1.10	1.15	71.3	6.04E+03	1.07
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	1.82E+07	1.06	1.56	277	6.04E+03	0.784
PCB-17 22'4-TrCB	19.66		1.1243	1.1246	+0.4	7.25E+06	1.04	1.33	129	6.04E+03	0.919
PCB-27 23'6-TrCB	19.85		1.1353	1.1355	+0.2	1.70E+06	1.06	1.82	22.2	6.04E+03	0.673
PCB-24 236-TrCB	19.97	J EMPC	1.1430	1.1425	-0.6	1.17E+05	1.21	1.74	1.6	6.04E+03	0.705
PCB-16 22'3-TrCB	20.08		1.1484	1.1487	+0.4	3.31E+06	1.11	0.99	79.6	6.04E+03	1.24

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.56		1.1758	1.1762	+0.5	1.12E+07	1.05	1.93	137	6.04E+03	0.633
PCB-34 23'5'-TrCB	21.71	J	0.8218	0.8214	-0.5	2.88E+05	0.98	1.25	2.77	8.95E+03	0.879
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	8.95E+03	0.867
PCB-26/29 23'5'/245-TrCB	22.12	C	0.8383	0.8370	-1.7	8.27E+06	1.01	1.28	77.6	8.95E+03	0.857
PCB-25 23'4-TrCB	22.34		0.8456	0.8453	-0.4	9.61E+06	1.00	1.26	91.4	8.95E+03	0.869
PCB-31 24'5-TrCB	22.62		0.8562	0.8559	-0.4	2.68E+07	1.01	1.34	240	8.95E+03	0.817
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8663	-1.0	2.74E+07	1.00	1.26	262	8.95E+03	0.874
PCB-21/33 234/23'4'-TrCB	23.10	C	0.8738	0.8743	+0.7	4.66E+06	1.00	1.28	43.6	8.95E+03	0.855
PCB-22 234'-TrCB	23.46		0.8880	0.8877	-0.4	6.85E+06	1.02	1.20	68.6	8.95E+03	0.915
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	8.95E+03	0.832
PCB-39 34'5-TrCB	NotFnd		0.9522	-		0.00E+00		1.36	ND	8.95E+03	0.809
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	8.95E+03	0.9
PCB-35 33'4-TrCB	26.07	J EMPC	0.9871	0.9865	-0.9	4.64E+05	1.50	1.19	4.69	8.95E+03	0.923
PCB-37 344'-TrCB	26.45		1.0007	1.0010	+0.5	3.06E+06	1.06	1.08	34.1	8.95E+03	1.02
PCB-54 22'66'-TeCB	20.41	J	1.0010	1.0011	+0.1	1.62E+05	0.86	1.35	2.47	2.03E+03	0.283
PCB-50/53 22'46/22'56'-TeCB	22.37	C	0.9145	0.9133	-1.6	5.56E+06	0.81	0.92	86	2.61E+03	0.417
PCB-45 22'36-TeCB	22.98		0.9383	0.9383	0	3.26E+06	0.77	0.84	55.5	2.61E+03	0.457
PCB-51 22'46'-TeCB	23.05		0.9413	0.9412	-0.1	3.48E+06	0.77	0.90	55.5	2.61E+03	0.429
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	1.59E+06	0.80	0.74	30.8	2.61E+03	0.522
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	2.70E+07	0.79	0.90	429	2.61E+03	0.428
PCB-73 23'5'6-TeCB	24.64	J EMPC	1.0062	1.0060	-0.3	7.05E+04	0.94	1.19	0.842	2.61E+03	0.322
PCB-43 22'35-TeCB	24.73		1.0101	1.0100	-0.1	7.80E+05	0.77	0.75	14.7	2.61E+03	0.509
PCB-69/49 23'46/22'45'-TeCB	24.95	C	1.0181	1.0189	+1.2	1.88E+07	0.79	1.10	245	2.61E+03	0.351
PCB-48 22'45-TeCB	25.21		1.0295	1.0295	0	2.88E+06	0.79	0.90	45.5	2.61E+03	0.425
PCB-44/47/65 ...-TeCB	25.41	C	1.0384	1.0376	-1.2	2.55E+07	0.79	0.96	378	2.61E+03	0.398
PCB-59/62/75 ...-TeCB	25.70	C	1.0496	1.0494	-0.3	2.35E+06	0.77	1.25	26.8	2.61E+03	0.307
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	5.61E+06	0.80	0.82	97.8	2.61E+03	0.469
PCB-41 22'34-TeCB	26.20		1.0698	1.0700	+0.3	8.68E+05	0.79	0.76	16.2	2.61E+03	0.504
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	1.04E+07	0.79	0.92	163	2.61E+03	0.42
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	1.23E+07	0.79	1.33	132	2.61E+03	0.289
PCB-72 23'55'-TeCB	27.21	J EMPC	0.8436	0.8431	-0.8	2.26E+05	0.91	1.26	2.56	6.19E+03	0.72
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	2.28E+06	0.82	1.35	24.1	6.19E+03	0.674
PCB-57 233'5-TeCB	27.84	J	0.8630	0.8627	-0.5	1.80E+05	0.78	1.22	2.11	6.19E+03	0.746
PCB-58 233'5'-TeCB	28.05	J	0.8693	0.8692	-0.2	7.95E+04	0.84	1.27	0.891	6.19E+03	0.713
PCB-67 23'45-TeCB	28.20	J	0.8741	0.8738	-0.5	6.16E+05	0.85	1.33	6.63	6.19E+03	0.686
PCB-63 234'5-TeCB	28.43		0.8811	0.8809	-0.3	1.12E+06	0.77	1.40	11.4	6.19E+03	0.651
PCB-61/70/74/76 ...-TeCB	28.73	C	0.8902	0.8903	+0.2	2.89E+07	0.80	1.25	331	6.19E+03	0.729
PCB-66 23'44'-TeCB	29.00		0.8989	0.8986	-0.5	1.80E+07	0.79	1.18	218	6.19E+03	0.772
PCB-55 233'4-TeCB	29.15	J	0.9034	0.9031	-0.5	2.66E+05	0.81	1.18	3.21	6.19E+03	0.77
PCB-56 233'4'-TeCB	29.59		0.9169	0.9167	-0.4	9.20E+06	0.81	1.17	113	6.19E+03	0.78
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	3.50E+06	0.82	1.20	41.6	6.19E+03	0.757
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	6.19E+03	0.66
PCB-79 33'45'-TeCB	31.43	J EMPC	0.9737	0.9739	+0.4	1.60E+05	0.66	1.37	1.67	6.19E+03	0.663
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	6.19E+03	0.793
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.50E+03	0.208
PCB-96 22'366'-PeCB	25.70	J	1.0134	1.0134	0	2.14E+05	0.64	1.18	3.65	1.50E+03	0.252
PCB-103 22'45'6-PeCB	27.39	J	0.8989	0.8987	-0.3	8.70E+04	0.59	0.93	1.5	3.39E+03	0.594
PCB-94 22'356'-PeCB	27.58	J	0.9051	0.9050	-0.2	1.01E+05	0.53	0.79	2.07	3.39E+03	0.702



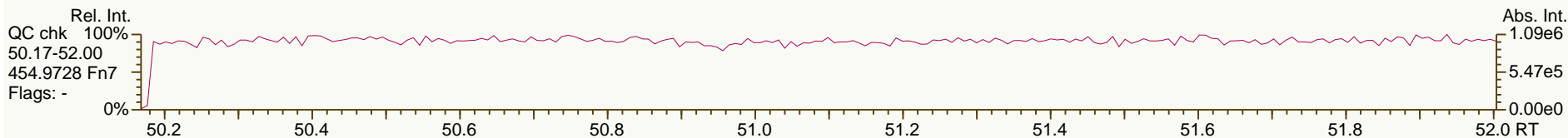
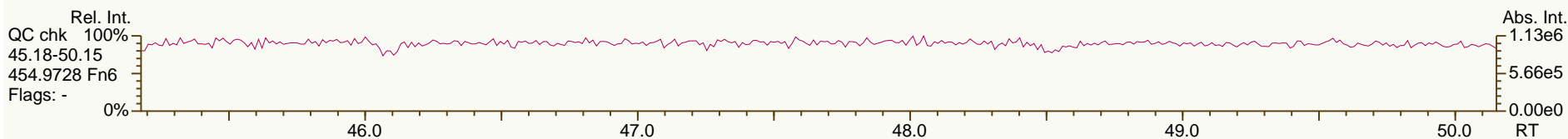
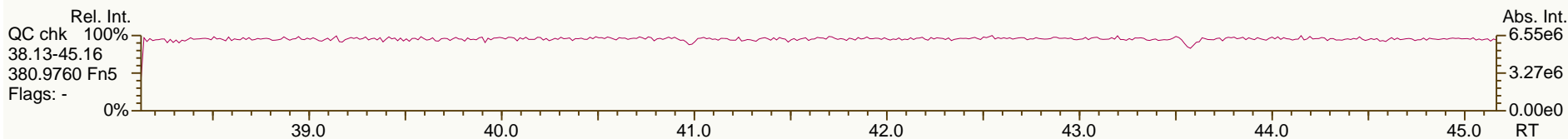
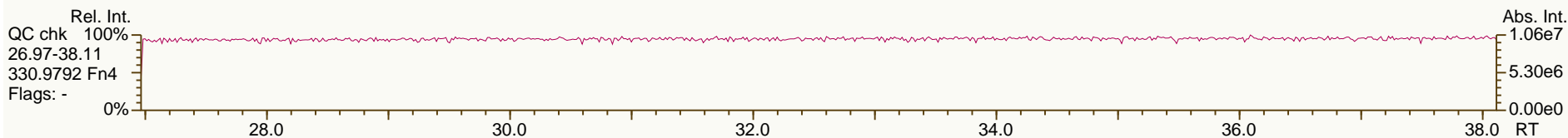
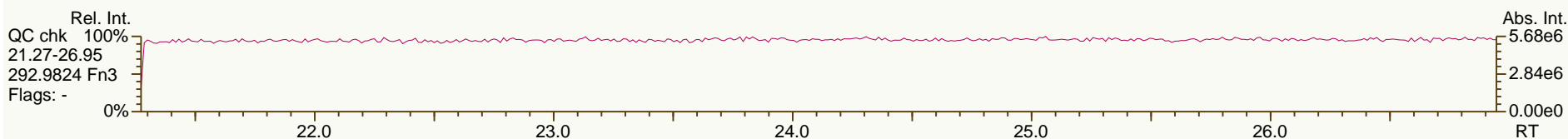
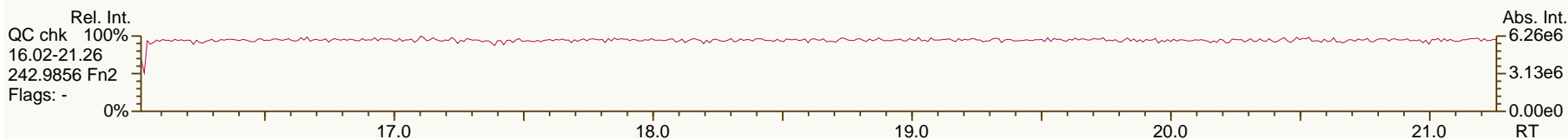
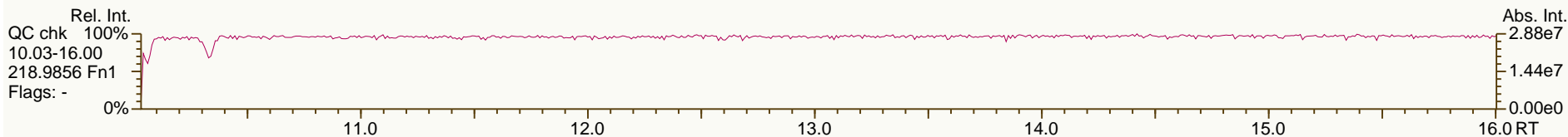
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9174	-0.3	5.66E+06	0.62	0.86	106	3.39E+03	0.643
PCB-100/93 22'44'6/22'356-PeCB	28.17	J C	0.9246	0.9245	-0.2	1.72E+05	0.60	0.86	3.24	3.39E+03	0.646
PCB-102 22'456'-PeCB	28.28	J	0.9282	0.9281	-0.2	4.94E+05	0.55	1.00	7.95	3.39E+03	0.553
PCB-98 22'34'6'-PeCB	28.36		0.9305	0.9305	0	3.44E+04	0.70	0.74	0.752	3.39E+03	0.752
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	3.39E+03	0.713
PCB-91 22'34'6-PeCB	28.72		0.9424	0.9423	-0.2	1.67E+06	0.63	0.92	29.3	3.39E+03	0.602
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	2.47E+06	0.61	0.71	55.8	3.39E+03	0.777
PCB-89 22'346'-PeCB	29.33	J	0.9624	0.9624	0	2.45E+05	0.55	0.76	5.2	3.39E+03	0.731
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	3.39E+03	0.463
PCB-92 22'355'-PeCB	29.99		0.9841	0.9840	-0.2	1.32E+06	0.60	0.81	26.1	3.39E+03	0.683
PCB-113/90/101 ...-PeCB	30.50	C	0.9999	1.0007	+1.5	7.28E+06	0.61	0.96	122	3.39E+03	0.577
PCB-83 22'33'5-PeCB	30.91		1.0142	1.0141	-0.2	4.92E+05	0.60	0.70	11.4	3.39E+03	0.795
PCB-99 22'44'5-PeCB	31.00		1.0173	1.0174	+0.2	4.36E+06	0.59	0.90	78.3	3.39E+03	0.618
PCB-112 233'56-PeCB	31.12	J	1.0206	1.0211	+0.9	4.38E+04	0.70	1.17	0.604	3.39E+03	0.475
PCB-108/119/86/97/125...-PeCB	31.48	C	1.0320	1.0329	+1.7	6.44E+06	0.61	0.98	106	3.39E+03	0.567
PCB-117 234'56-PeCB	31.97	J	1.0495	1.0492	-0.6	2.31E+05	0.65	1.18	3.17	3.39E+03	0.471
PCB-116/85 23456/22'344'-PeCB	32.06	C	1.0525	1.0521	-0.8	1.95E+06	0.61	0.88	36	3.39E+03	0.633
PCB-110 233'4'6-PeCB	32.19		1.0561	1.0564	+0.6	1.07E+07	0.61	1.10	158	3.39E+03	0.506
PCB-115 2344'6-PeCB	32.28	J	1.0590	1.0592	+0.4	3.09E+05	0.68	1.16	4.31	3.39E+03	0.479
PCB-82 22'33'4-PeCB	32.48		1.0655	1.0657	+0.4	1.09E+06	0.64	0.69	25.5	3.39E+03	0.805
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	3.39E+03	0.459
PCB-120 23'455'-PeCB	NotFnd		1.0887	-		0.00E+00		1.22	ND	3.39E+03	0.453
PCB-107/124 ...-PeCB	34.16	J C	0.9916	0.9917	+0.2	3.05E+05	0.62	1.11	4.44	3.39E+03	0.5
PCB-109 233'46-PeCB	34.36		0.9976	0.9977	+0.2	6.90E+05	0.62	1.24	8.98	3.39E+03	0.447
PCB-106 233'45-PeCB	34.55	J EMPC	1.0038	1.0030	-1.7	1.07E+05	0.48	1.11	1.56	3.39E+03	0.5
PCB-122 233'4'5'-PeCB	35.04	J EMPC	1.0091	1.0091	0	1.22E+05	0.52	1.03	1.88	3.39E+03	0.557
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	3.39E+03	0.475
PCB-155 22'44'66'-HxCB	30.33	J EMPC	1.0007	1.0007	0	4.87E+04	1.45	1.26	0.615	1.43E+03	0.185
PCB-152 22'3566'-HxCB	NotFnd		1.0060	-		0.00E+00		1.14	ND	1.43E+03	0.205
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.43E+03	0.201
PCB-136 22'33'66'-HxCB	30.94	J	1.0207	1.0209	+0.4	4.36E+05	1.23	1.06	6.55	1.43E+03	0.22
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.43E+03	0.213
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.43E+03	0.274
PCB-151/135 ...-HxCB	32.99	J B C	1.0886	1.0887	+0.2	7.35E+05	1.21	1.09	15	1.43E+03	0.288
PCB-154 22'44'56'-HxCB	33.21	J	1.0954	1.0957	+0.6	3.53E+04	1.12	1.29	0.61	1.43E+03	0.245
PCB-144 22'345'6-HxCB	33.47	J	1.1041	1.1044	+0.6	1.14E+05	1.33	1.14	2.22	1.43E+03	0.277
PCB-147/149 ...-HxCB	33.77	C	1.1141	1.1143	+0.4	1.83E+06	1.26	1.11	36.6	1.43E+03	0.282
PCB-134 22'33'56-HxCB	33.95	J	1.1199	1.1203	+0.8	1.17E+05	1.44	0.93	2.8	1.43E+03	0.337
PCB-143 22'3456'-HxCB	34.04	J EMPC	1.1225	1.1230	+1.0	2.04E+04	1.57	1.02	0.444	1.43E+03	0.308
PCB-139/140 ...-HxCB	34.29	J EMPC C	1.1312	1.1313	+0.2	5.60E+04	1.46	1.13	1.1	1.43E+03	0.278
PCB-131 22'33'46-HxCB	34.46	J	1.1369	1.1372	+0.6	3.82E+04	1.30	0.98	0.87	1.43E+03	0.323
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.43E+03	0.332
PCB-132 22'33'46'-HxCB	34.85	B	1.1494	1.1498	+0.8	7.62E+05	1.25	0.99	17.1	1.43E+03	0.318
PCB-133 22'33'55'-HxCB	35.25	J	1.1626	1.1633	+1.5	4.49E+04	1.23	1.05	0.95	1.43E+03	0.3
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.43E+03	0.233
PCB-146 22'34'55'-HxCB	35.81	J	0.9582	0.9581	-0.2	3.86E+05	1.31	1.15	7.46	1.43E+03	0.274
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.43E+03	0.214
PCB-153/168 ...-HxCB	36.33	C	0.9728	0.9721	-1.5	2.36E+06	1.31	1.42	37	1.43E+03	0.222

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.50	J	0.9766	0.9766	0	3.79E+05	1.30	1.04	8.12	1.43E+03	0.303
PCB-130 22'33'45'-HxCB	36.84	J	0.9859	0.9859	0	1.74E+05	1.26	0.92	4.2	1.43E+03	0.342
PCB-137 22'344'5-HxCB	37.05	J	0.9911	0.9913	+0.4	1.70E+05	1.10	1.11	3.4	1.43E+03	0.283
PCB-164 233'4'5'6-HxCB	37.12	J	0.9933	0.9934	+0.2	2.03E+05	1.10	1.43	3.16	1.43E+03	0.221
PCB-163/138/129 ...-HxCB	37.40	C	1.0011	1.0007	-0.9	2.88E+06	1.27	1.15	55.9	1.43E+03	0.275
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.43E+03	0.227
PCB-158 233'44'6-HxCB	37.73	J	1.0096	1.0096	0	3.67E+05	1.32	1.53	5.31	1.43E+03	0.205
PCB-128/166 ...-HxCB	38.48	J C	0.9641	0.9643	+0.5	5.02E+05	1.07	0.90	9.43	1.47E+03	0.291
PCB-159 233'455'-HxCB	39.26	J EMPC	0.9844	0.9839	-1.2	2.28E+04	0.98	1.10	0.351	1.47E+03	0.239
PCB-162 233'4'55'-HxCB	39.50	J	0.9903	0.9898	-1.2	1.84E+04	1.22	1.10	0.283	1.47E+03	0.238
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.10E+03	0.203
PCB-179 22'33'566'-HpCB	35.48	J	1.0086	1.0086	0	2.00E+05	1.07	1.13	3.96	1.10E+03	0.229
PCB-184 22'344'66'-HpCB	35.94	J EMPC	1.0216	1.0216	0	4.21E+04	1.22	1.06	0.889	1.10E+03	0.244
PCB-176 22'33'466'-HpCB	36.25	J EMPC	1.0300	1.0302	+0.4	5.03E+04	0.88	1.15	0.977	1.10E+03	0.225
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.10E+03	0.24
PCB-178 22'33'55'6-HpCB	37.77	J	1.0733	1.0736	+0.7	6.05E+04	1.03	0.77	1.74	1.10E+03	0.333
PCB-175 22'33'45'6-HpCB	NotFnd		1.0887	-		0.00E+00		1.07	ND	1.86E+03	0.425
PCB-187 22'34'55'6-HpCB	38.54		1.0952	1.0954	+0.5	4.86E+05	0.97	1.15	9.88	1.86E+03	0.396
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.86E+03	0.388
PCB-183 22'344'5'6-HpCB	39.05	J	1.1101	1.1100	-0.2	2.18E+05	1.19	1.20	4.27	1.86E+03	0.382
PCB-185 22'3455'6-HpCB	39.14	J	1.1125	1.1126	+0.2	4.30E+04	1.15	1.10	0.909	1.86E+03	0.413
PCB-174 22'33'456'-HpCB	39.26	J	1.1156	1.1159	+0.7	3.22E+05	1.06	0.94	8.03	1.86E+03	0.487
PCB-177 22'33'45'6'-HpCB	39.63	J	1.1262	1.1265	+0.7	1.79E+05	1.09	0.92	4.52	1.86E+03	0.494
PCB-181 22'344'56-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.86E+03	0.426
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1418	+1.2	9.69E+04	1.04	0.94	2.42	1.86E+03	0.487
PCB-172 22'33'455'-HpCB	41.51	J	0.9080	0.9078	-0.5	5.98E+04	1.00	0.98	1.43	1.86E+03	0.467
PCB-192 233'455'6-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.86E+03	0.354
PCB-180/193 ...-HpCB	42.07	J C	0.9194	0.9200	+1.5	8.54E+05	1.06	1.24	16	1.86E+03	0.367
PCB-191 233'44'5'6-HpCB	NotFnd		0.9266	-		0.00E+00		1.38	ND	1.86E+03	0.33
PCB-170 22'33'44'5-HpCB	43.14	J	0.9434	0.9434	0	2.79E+05	1.18	1.13	7.03	1.86E+03	0.509
PCB-190 233'44'56-HpCB	43.59	J	0.9533	0.9532	-0.3	7.36E+04	1.01	1.60	1.32	1.86E+03	0.362
PCB-202 22'33'55'66'-OoCB	39.74	J	1.0005	1.0005	0	6.90E+04	0.89	1.05	1.47	1.17E+03	0.251
PCB-201 22'33'45'66'-OoCB	40.53	J EMPC	1.0203	1.0204	+0.2	4.07E+04	0.70	1.14	0.799	1.17E+03	0.231
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.17E+03	0.246
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.10	ND	1.17E+03	0.24
PCB-200 22'33'4566'-OoCB	41.37	J	1.0418	1.0415	-0.7	2.86E+04	0.84	1.08	0.592	1.17E+03	0.244
PCB-198/199 ...-OoCB	43.72	J C	1.1001	1.1008	+1.8	1.52E+05	1.01	0.74	4.58	1.17E+03	0.356
PCB-196 22'33'44'56'-OoCB	44.28	J EMPC	1.1146	1.1148	+0.5	5.32E+04	1.16	0.80	1.5	1.17E+03	0.332
PCB-203 22'344'55'6-OoCB	44.45	J	1.1188	1.1190	+0.5	9.28E+04	0.96	0.83	2.5	1.17E+03	0.317
PCB-195 22'33'44'56-OoCB	45.57	J	0.9516	0.9516	0	3.44E+04	0.81	0.72	1.3	1.32E+03	0.524
PCB-194 22'33'44'55'-OoCB	47.51	J EMPC	0.9921	0.9921	0	9.60E+04	1.05	0.81	3.25	1.32E+03	0.47
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.32E+03	0.357
PCB-208 22'33'455'66'-NoCB	45.36	J	1.0005	1.0003	-0.5	4.69E+04	0.73	1.12	0.997	3.04E+03	0.661
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.18	ND	3.04E+03	0.632
PCB-206 22'33'44'55'6-NoCB	49.37	J	1.0004	1.0005	+0.3	5.70E+04	0.83	1.11	2.04	3.04E+03	1.12

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Sample ID: PB093\_A-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 83

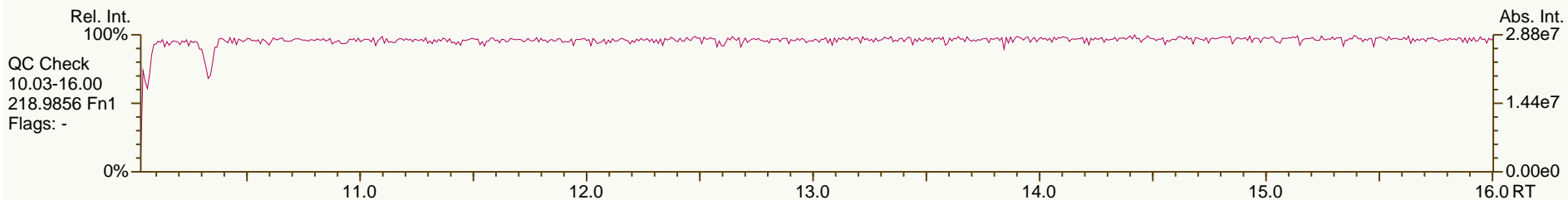
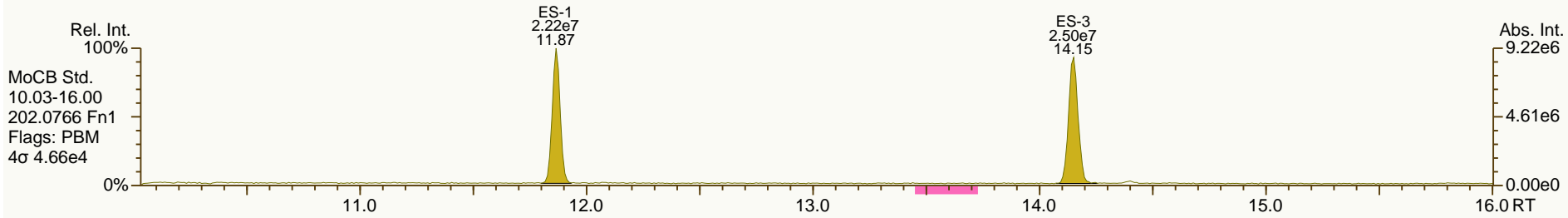
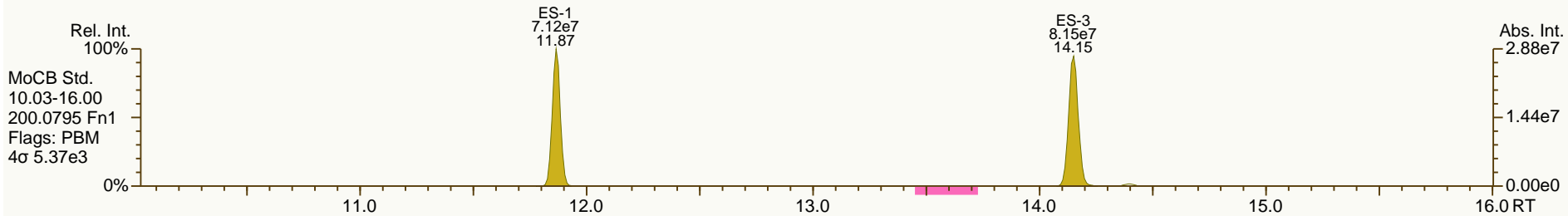
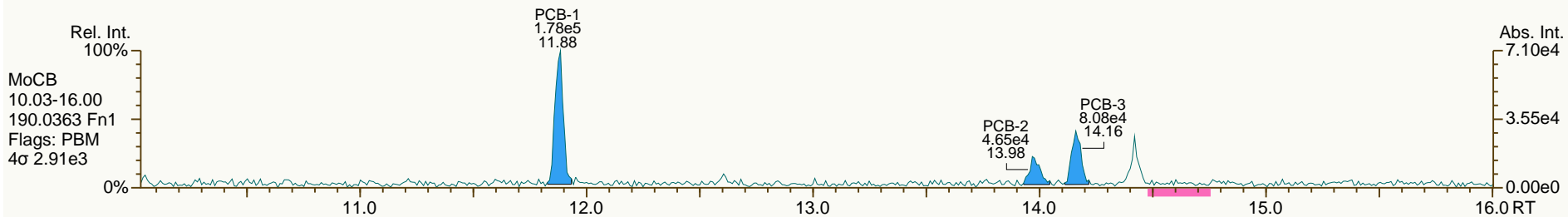
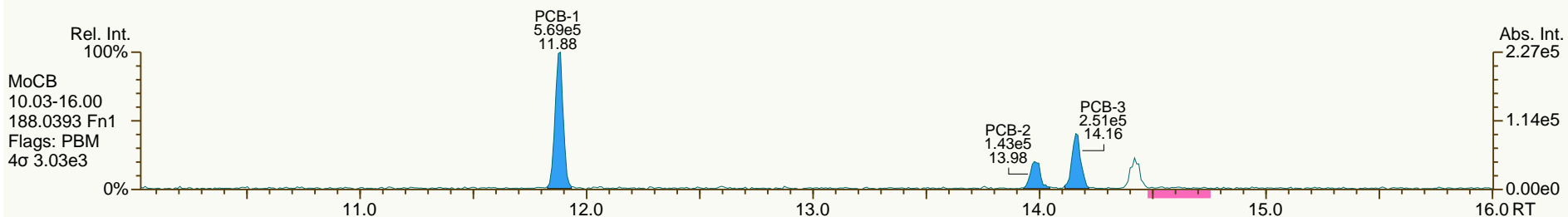
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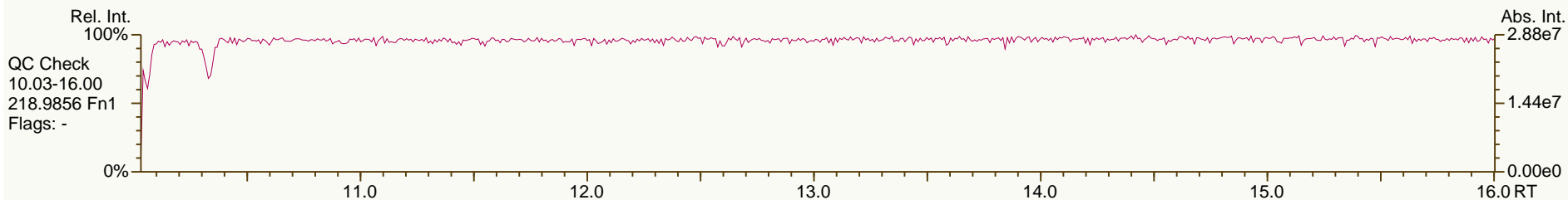
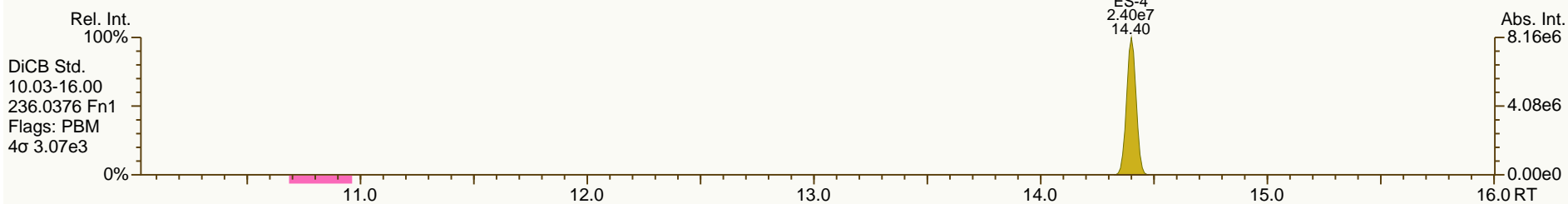
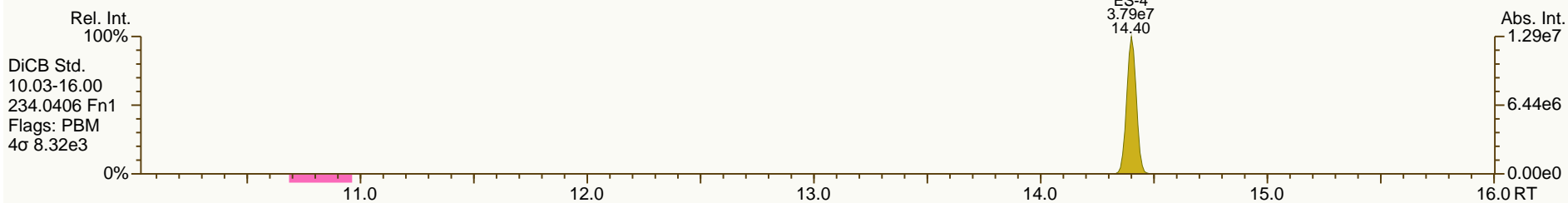
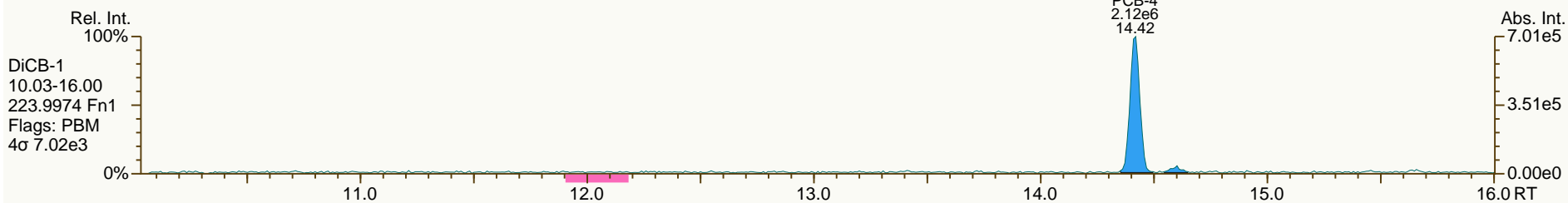
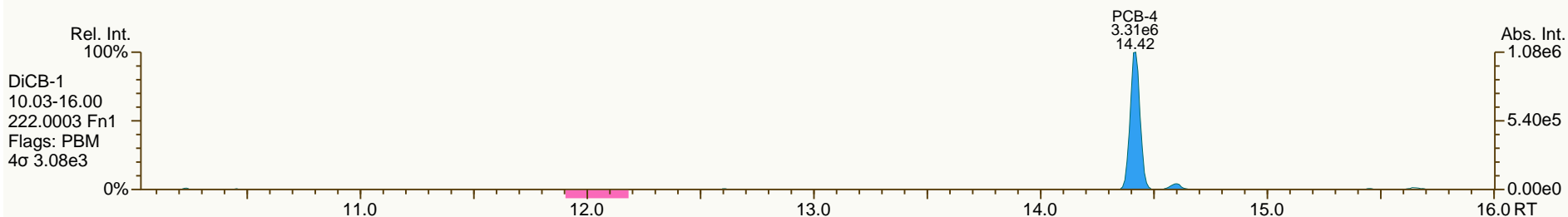
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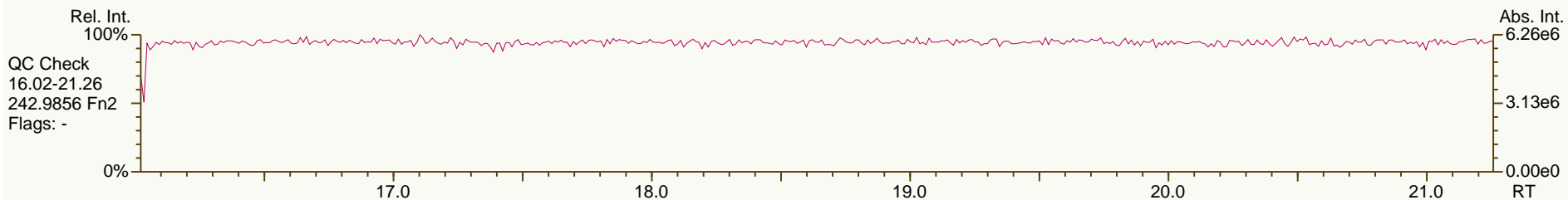
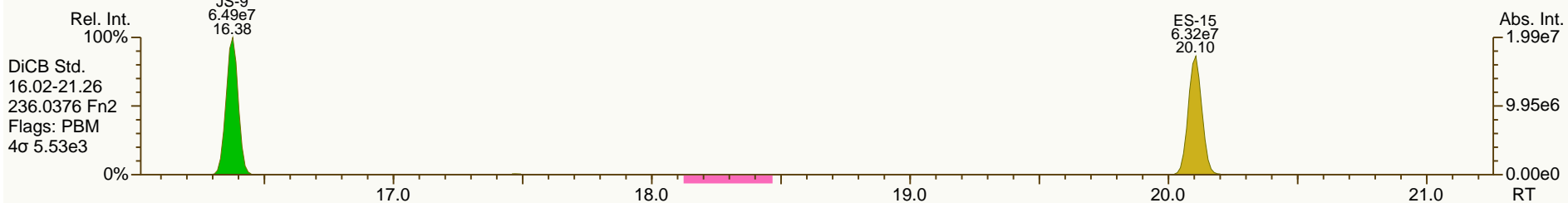
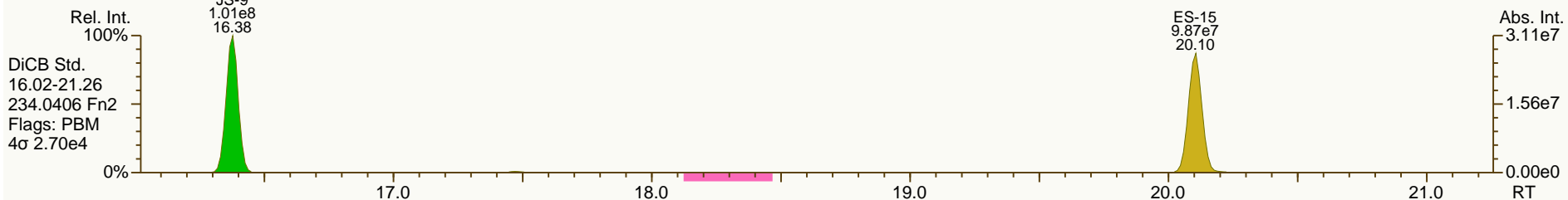
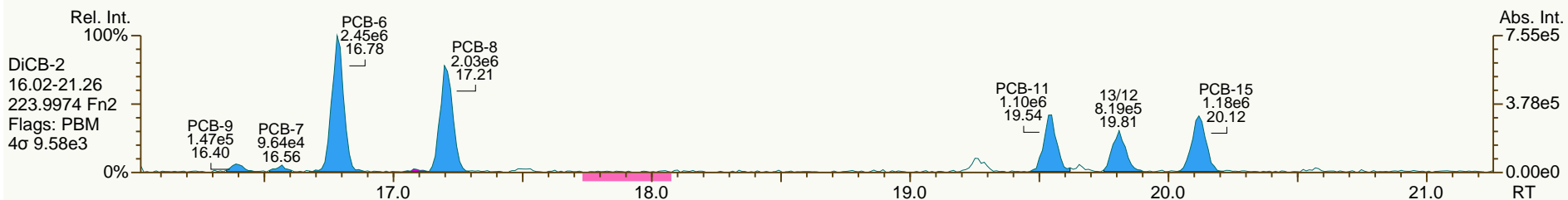
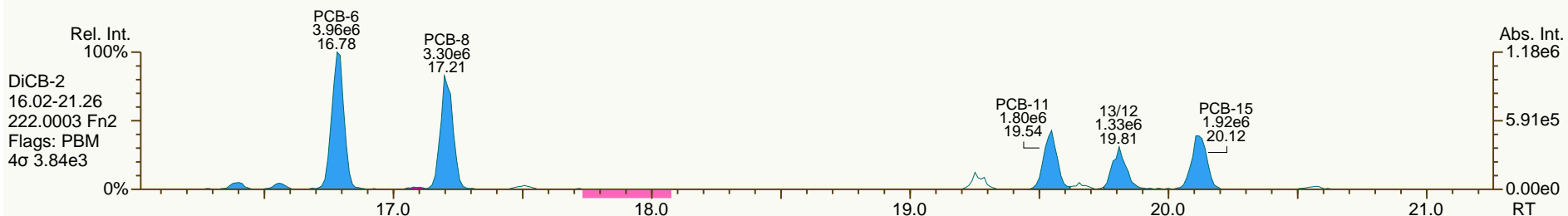
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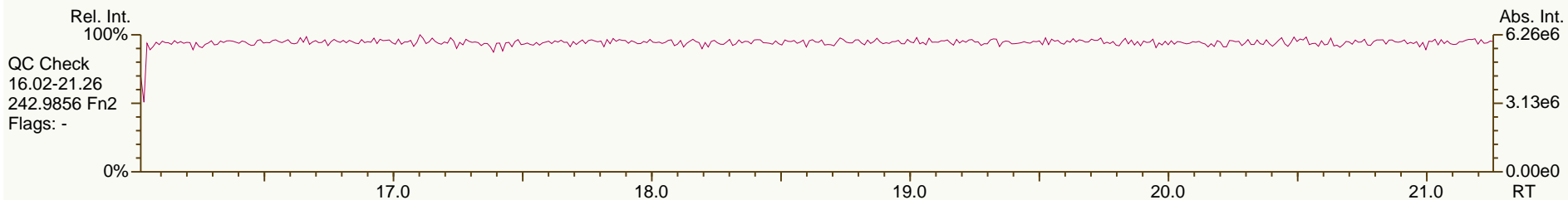
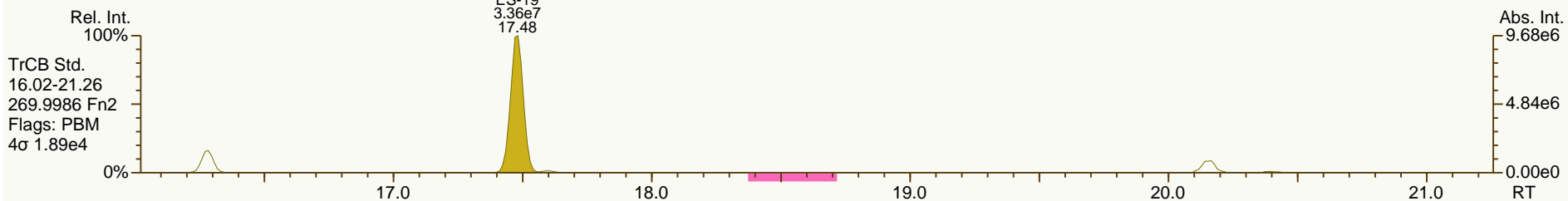
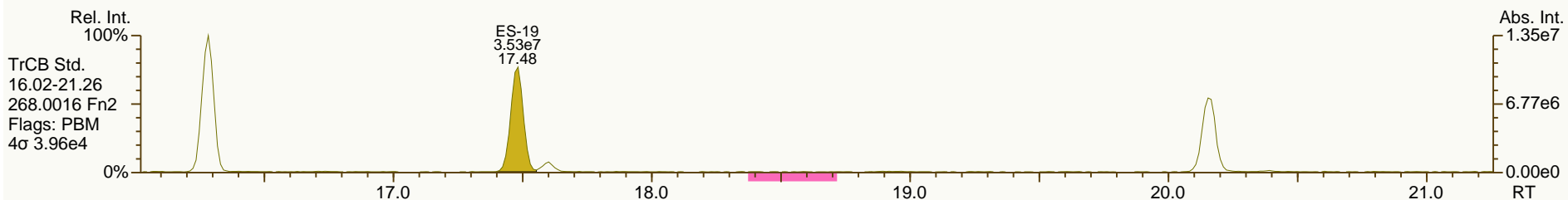
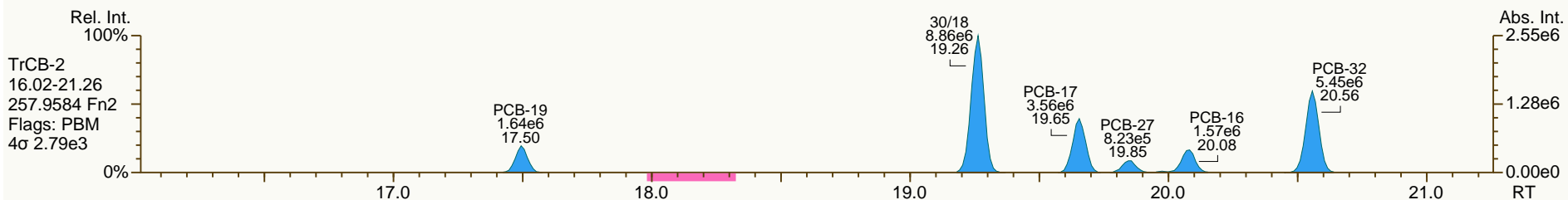
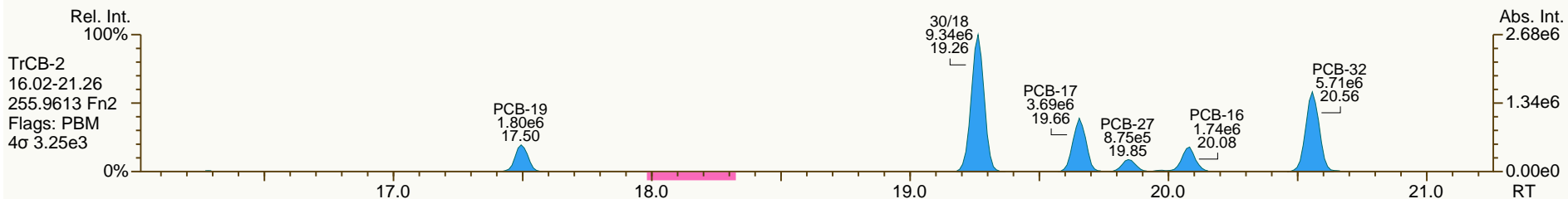
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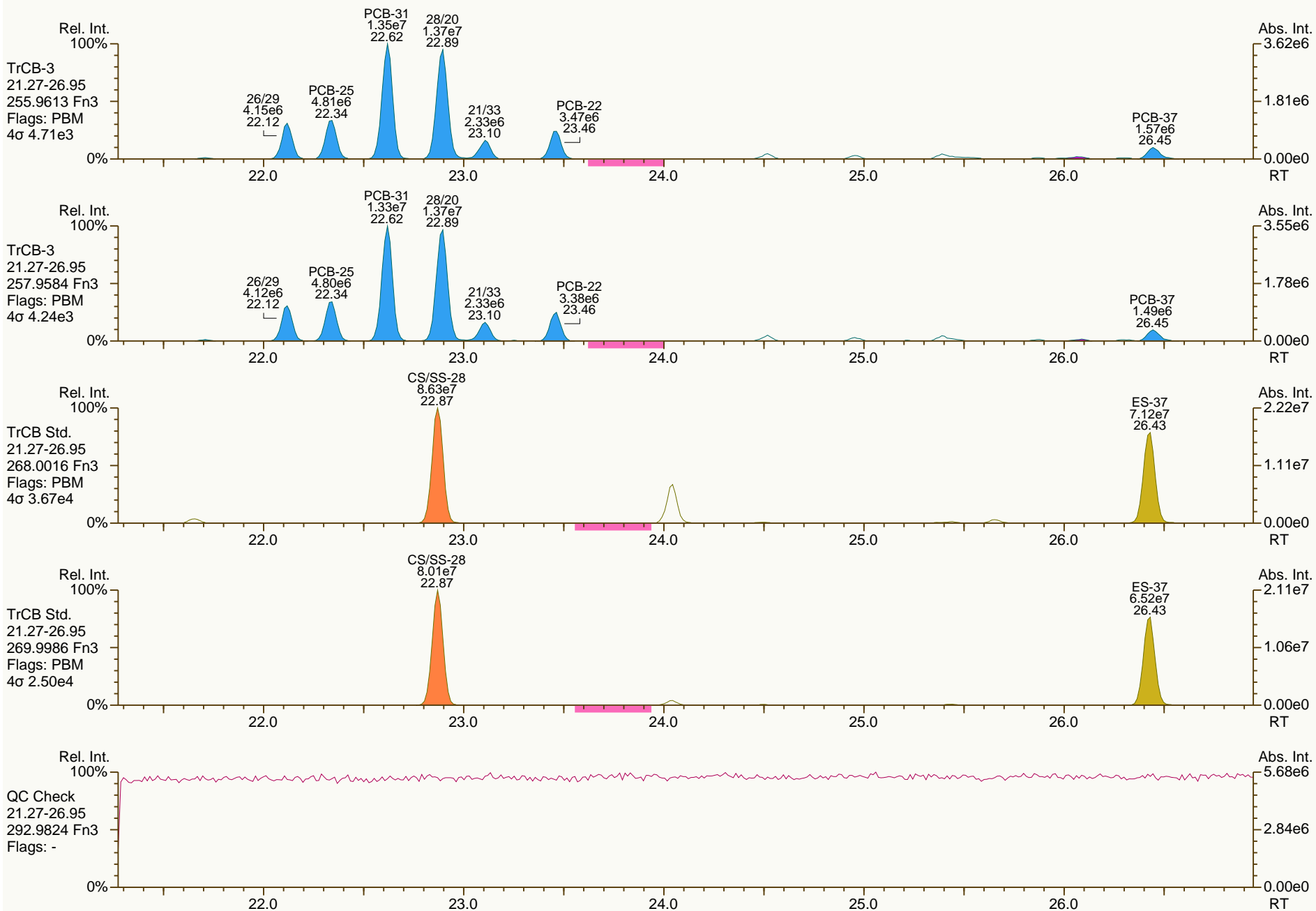
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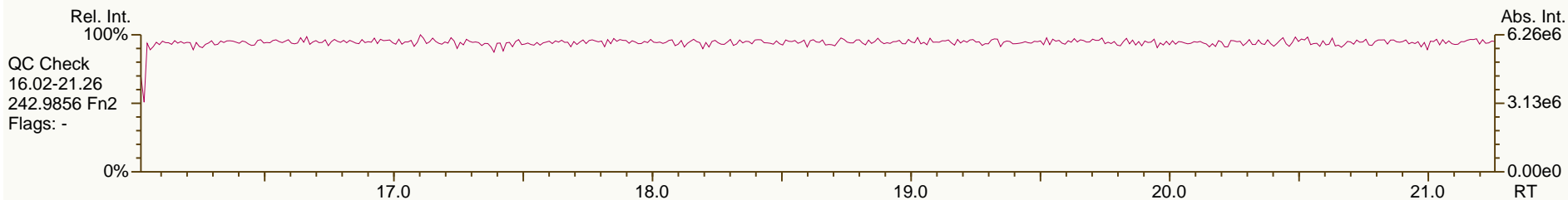
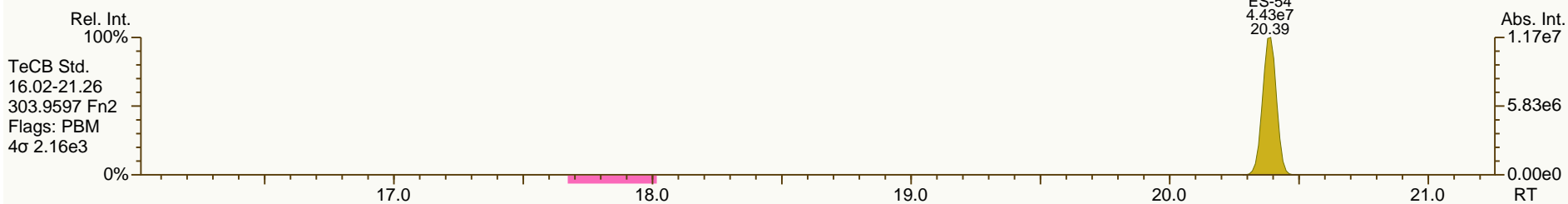
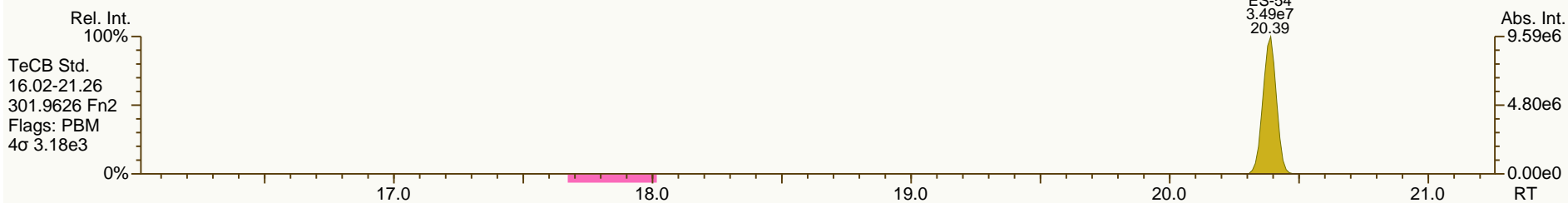
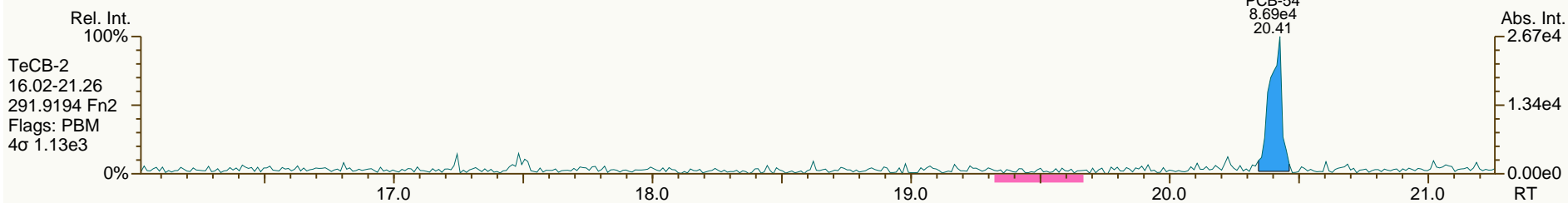
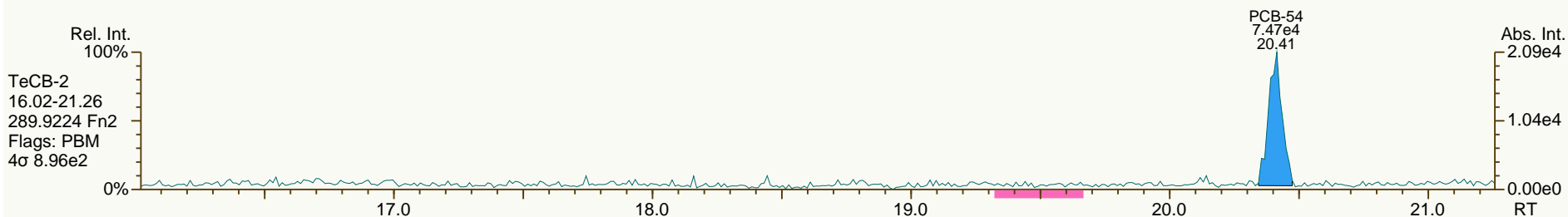




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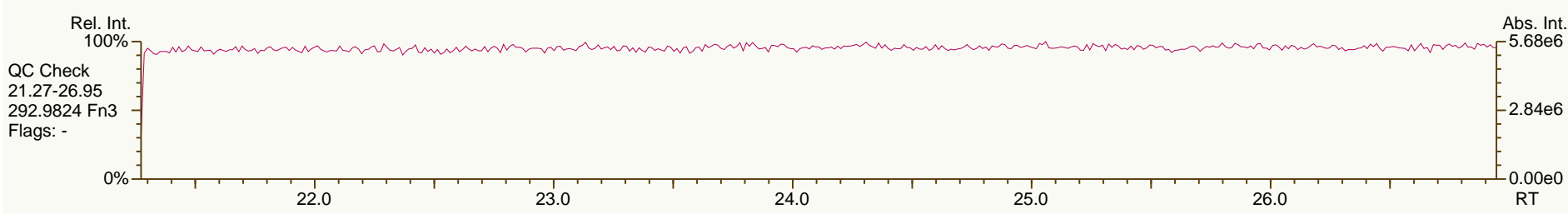
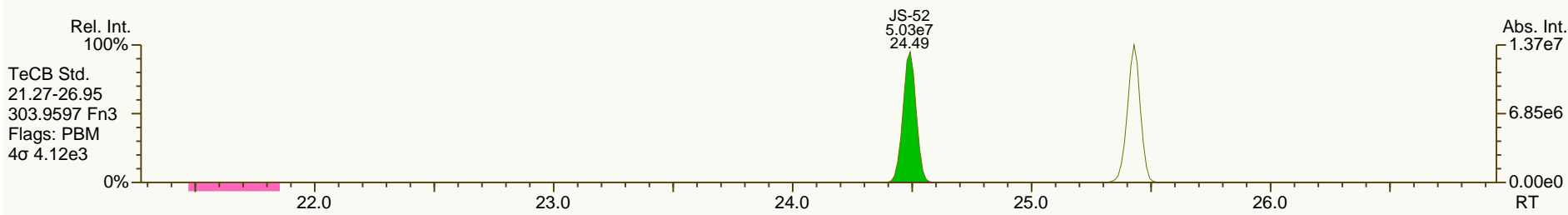
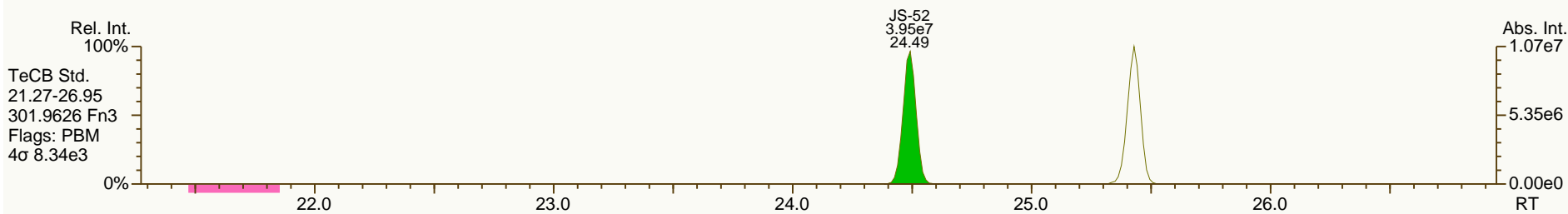
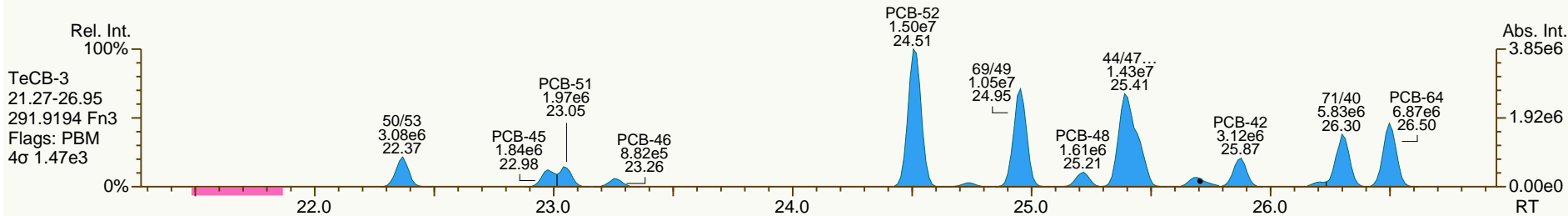
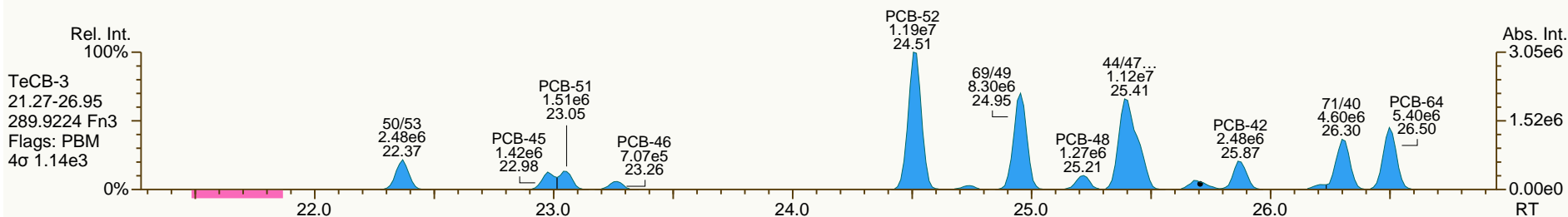
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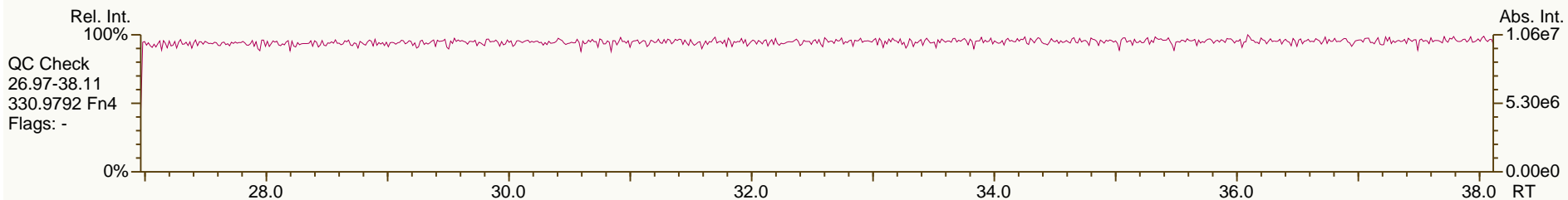
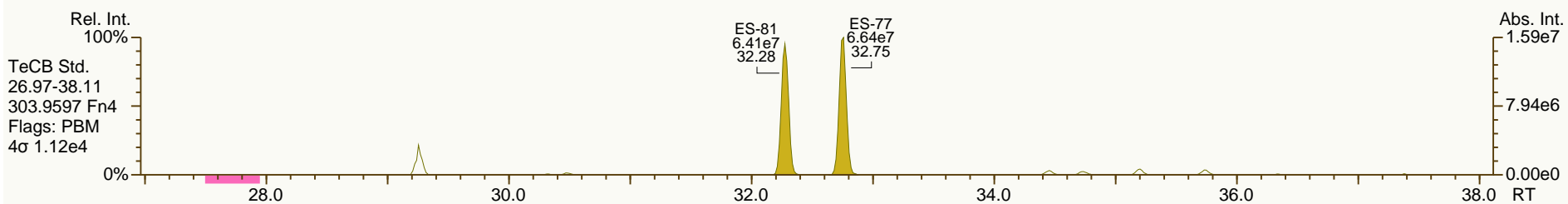
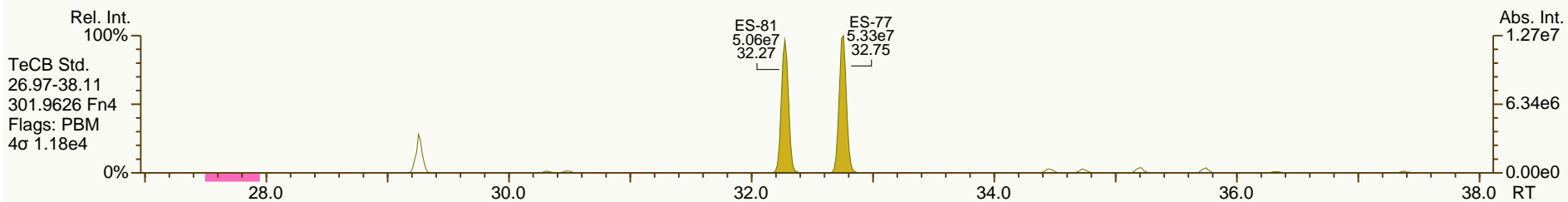
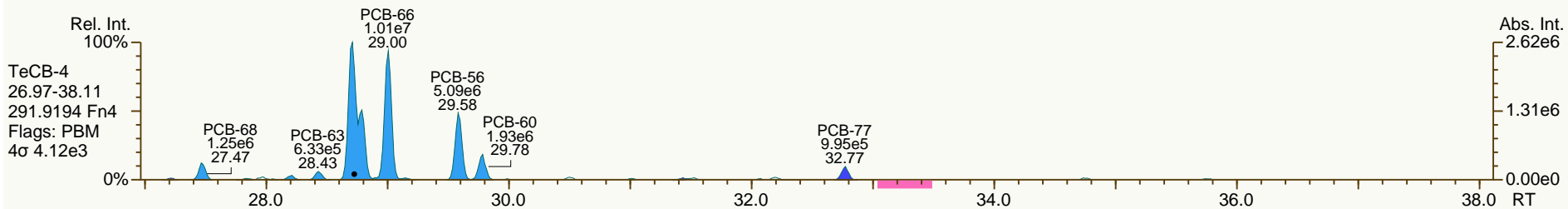
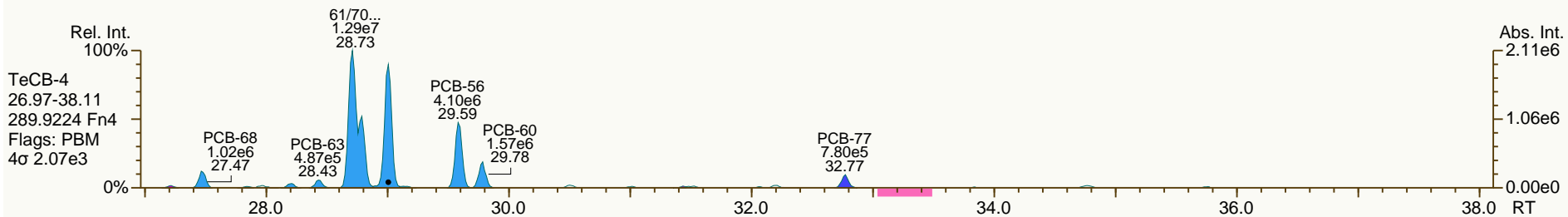
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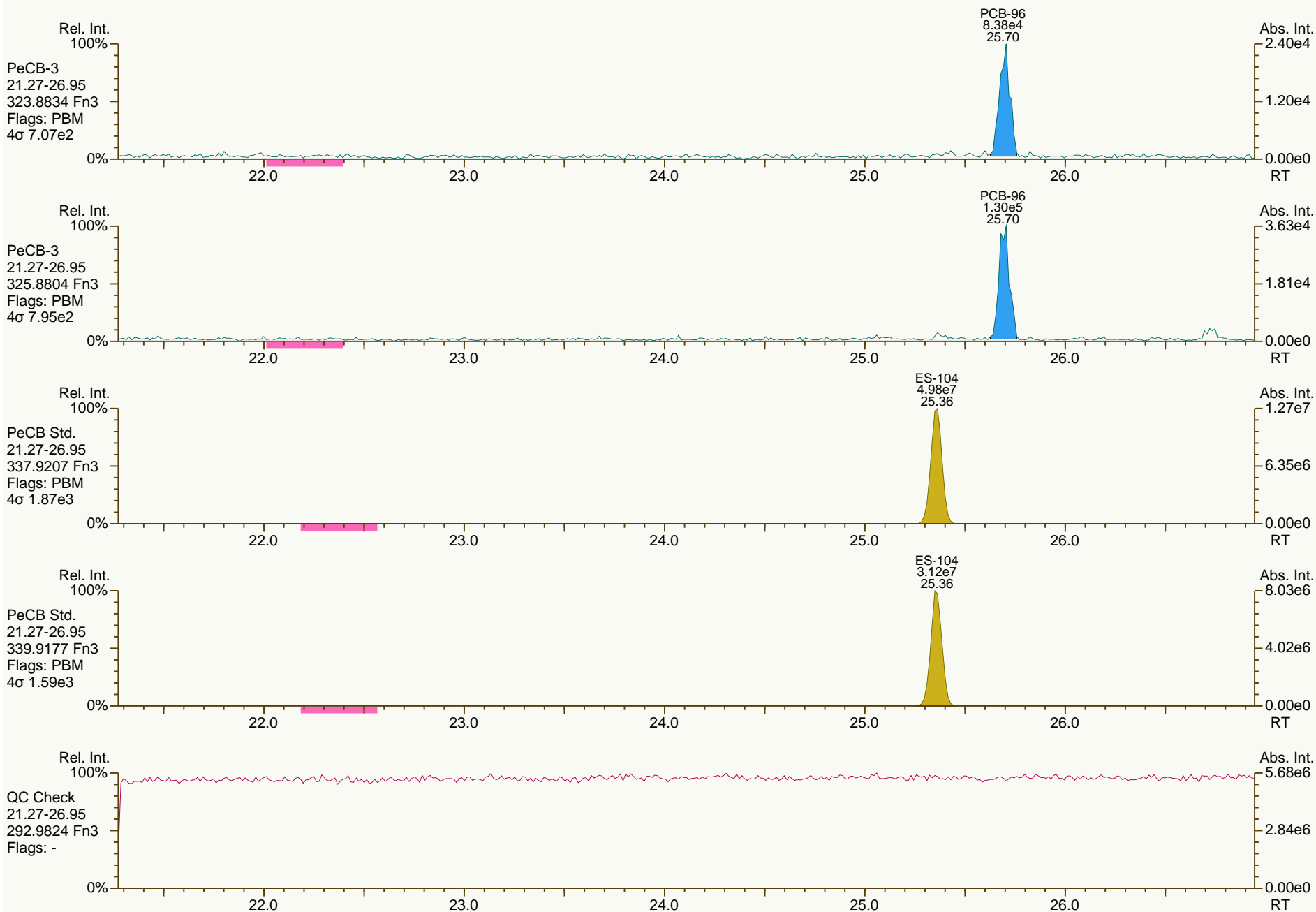
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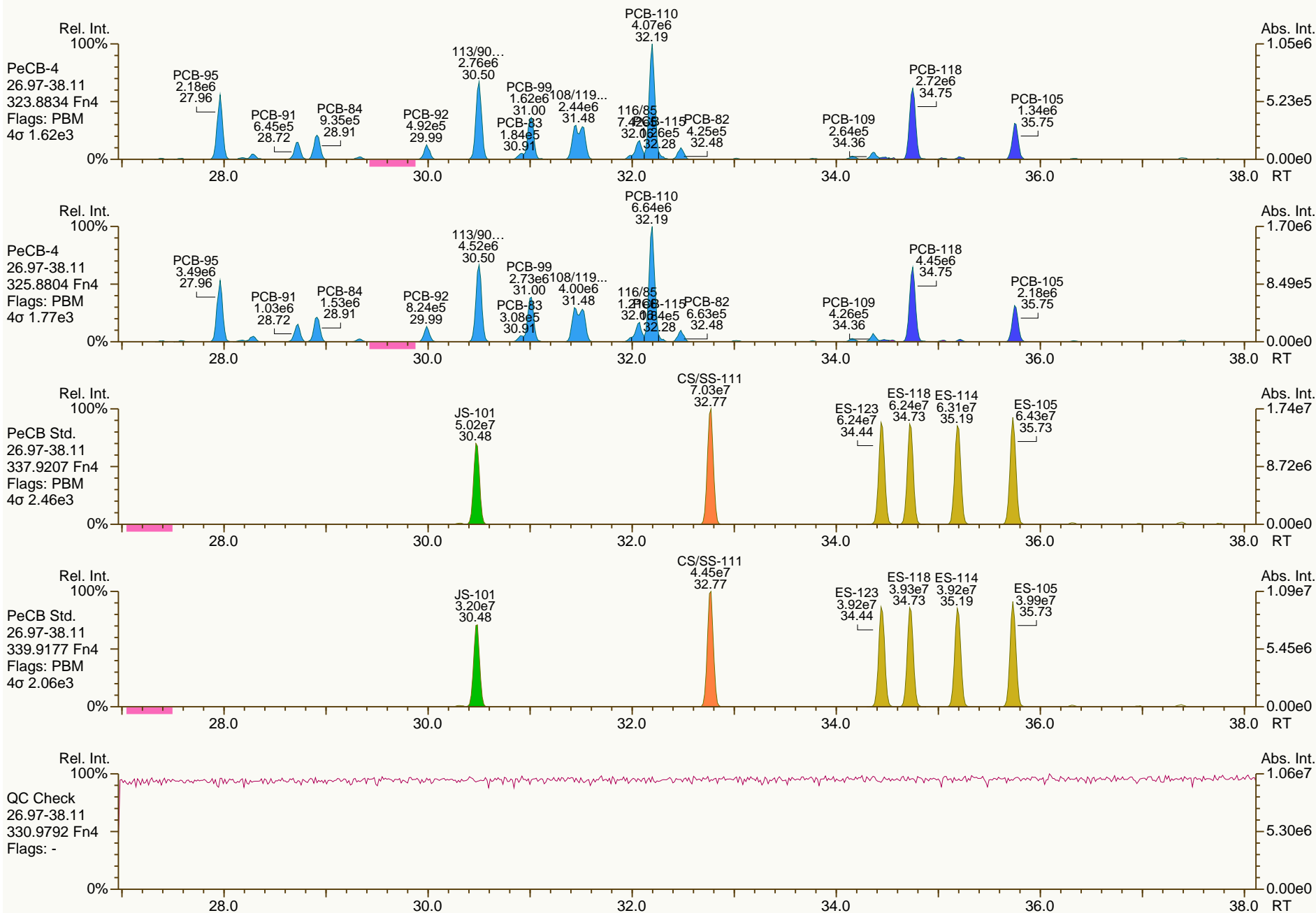
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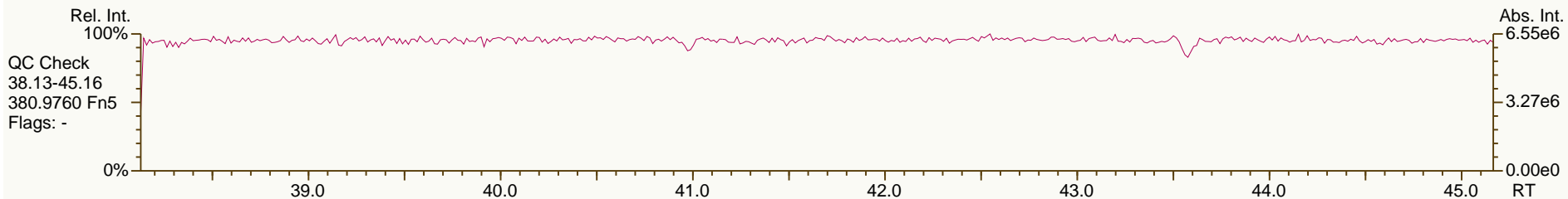
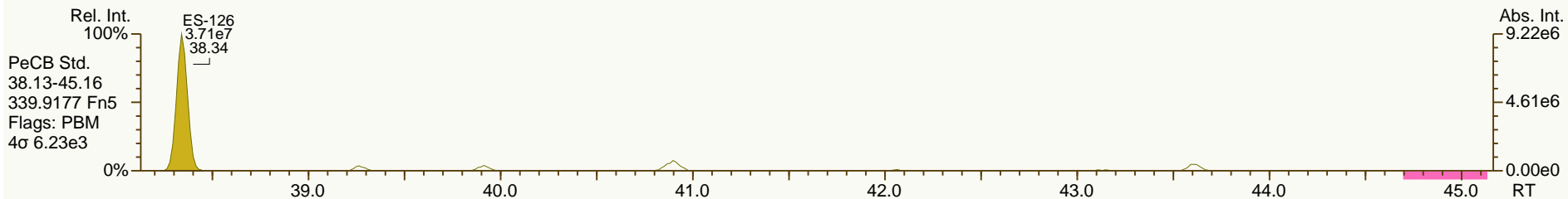
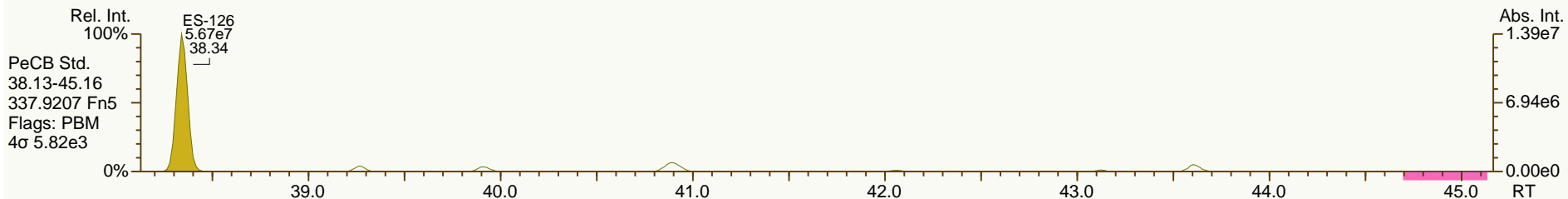
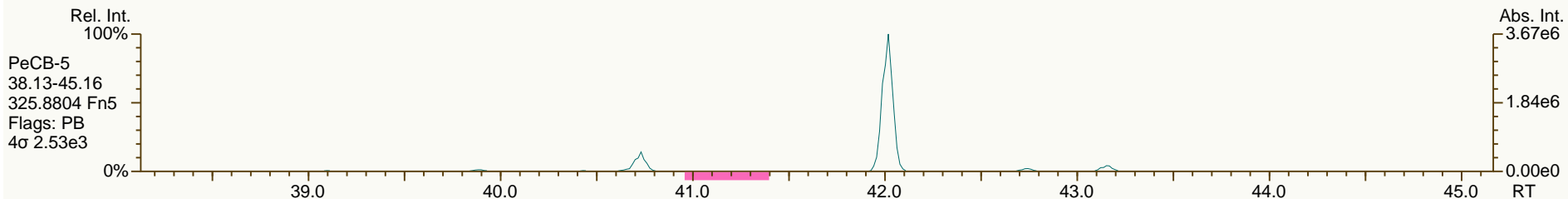
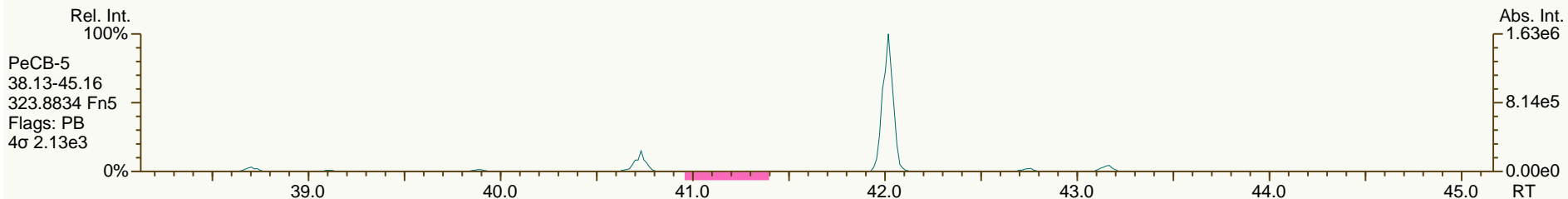
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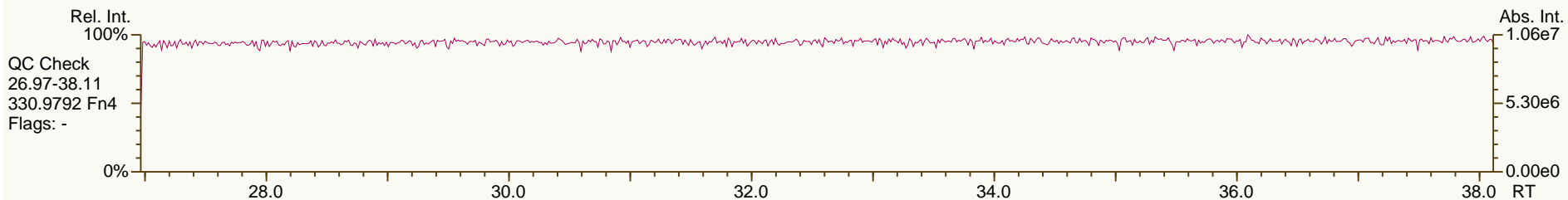
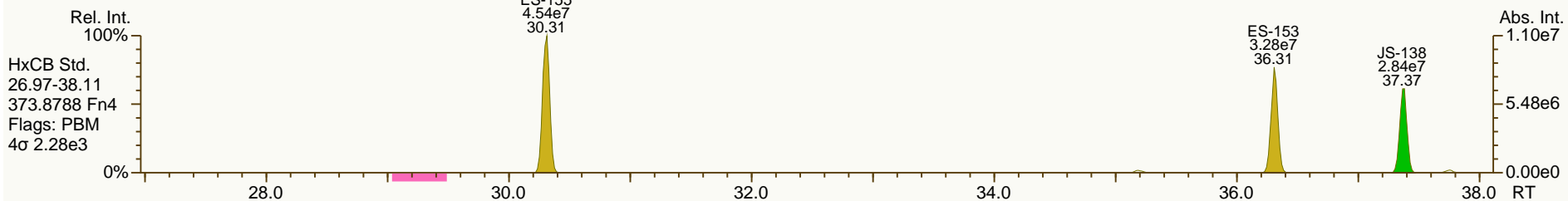
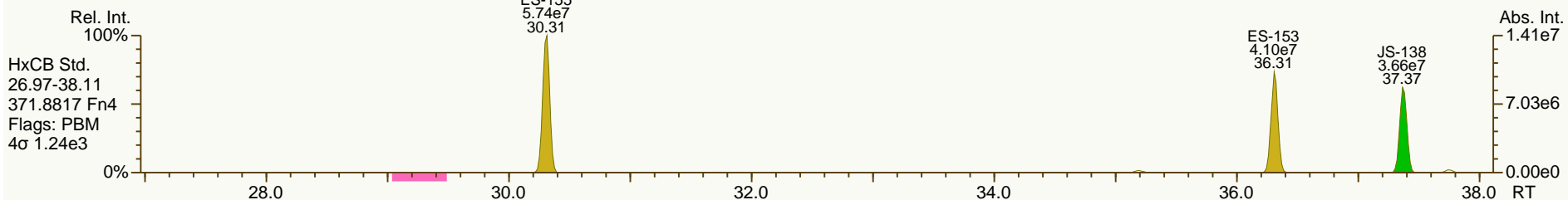
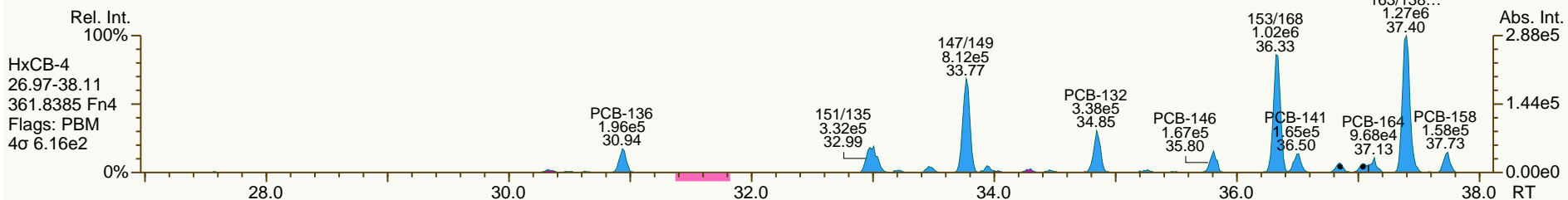
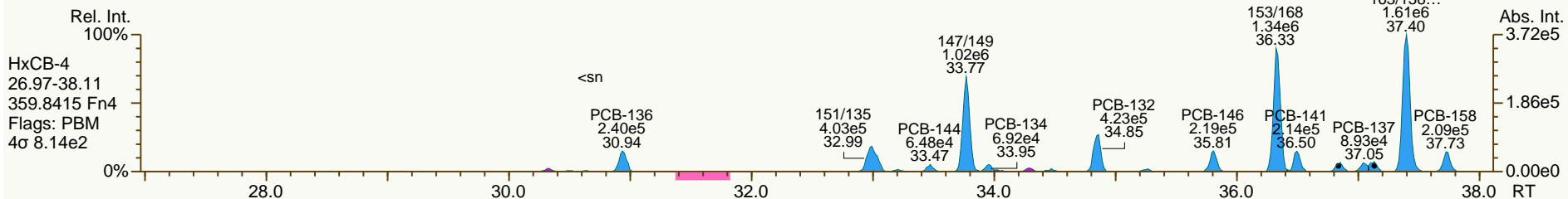
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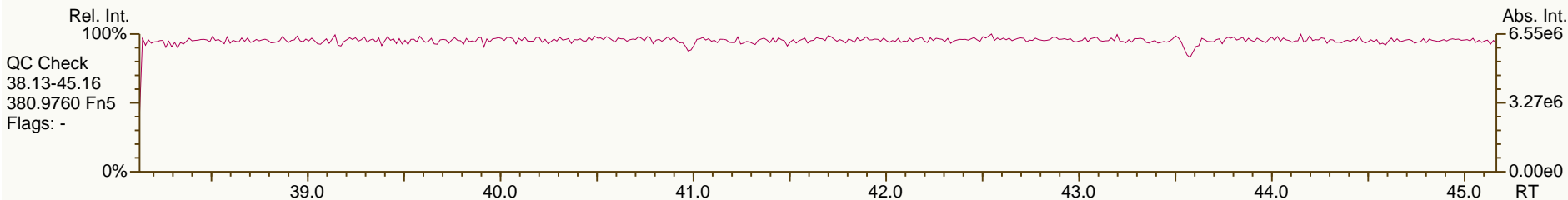
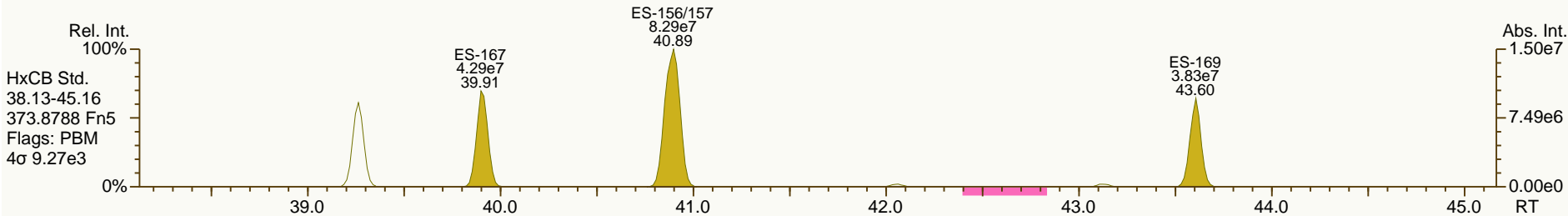
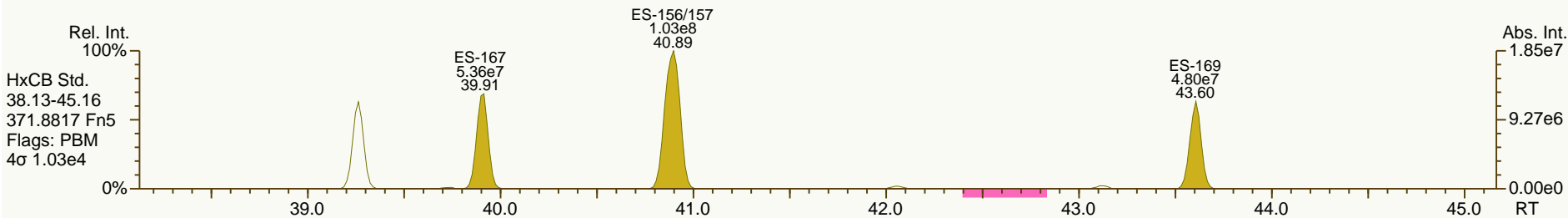
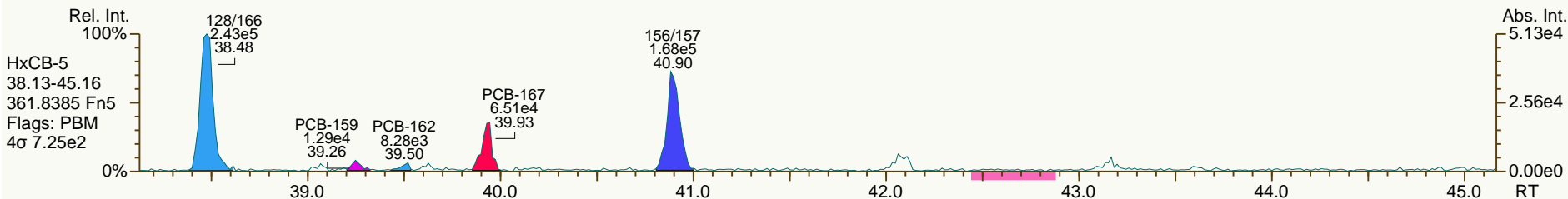
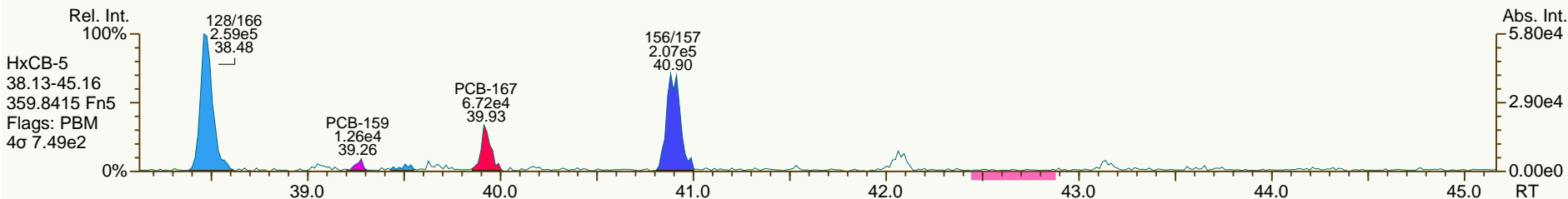
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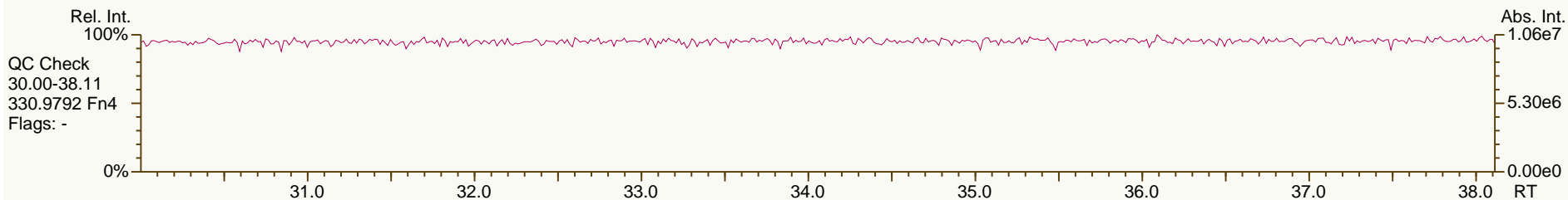
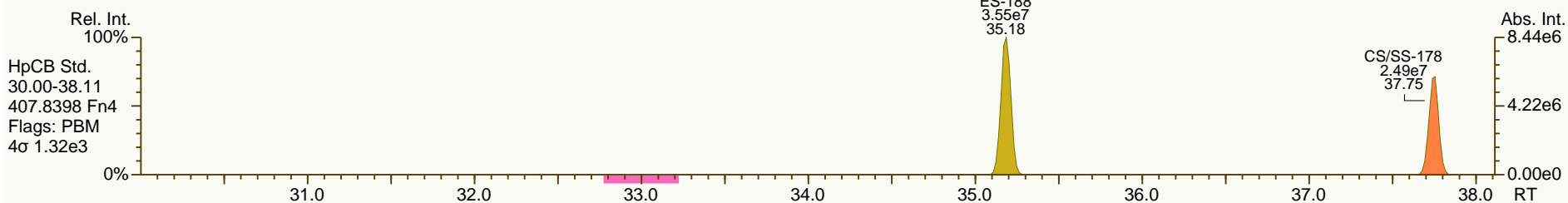
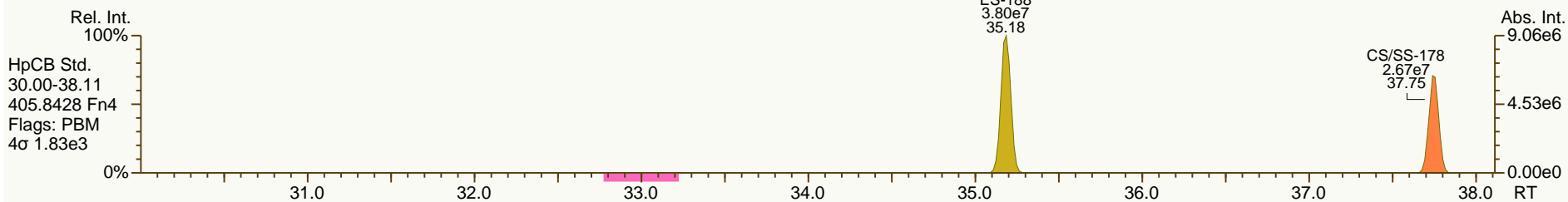
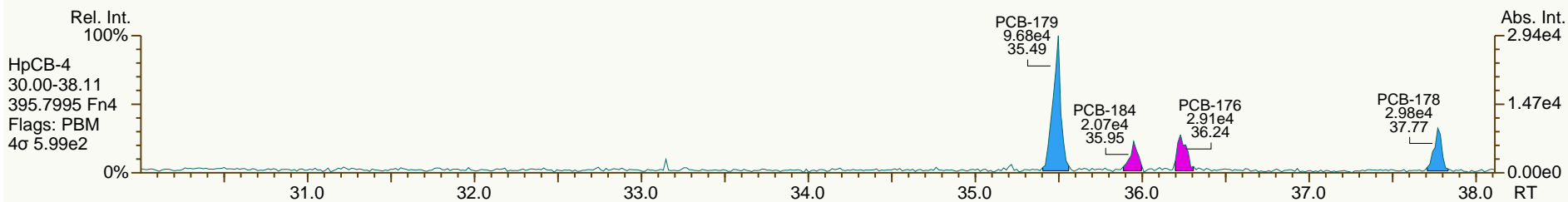
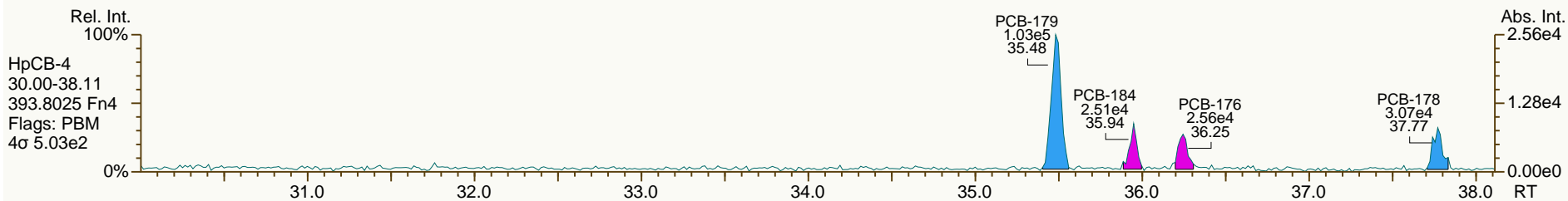




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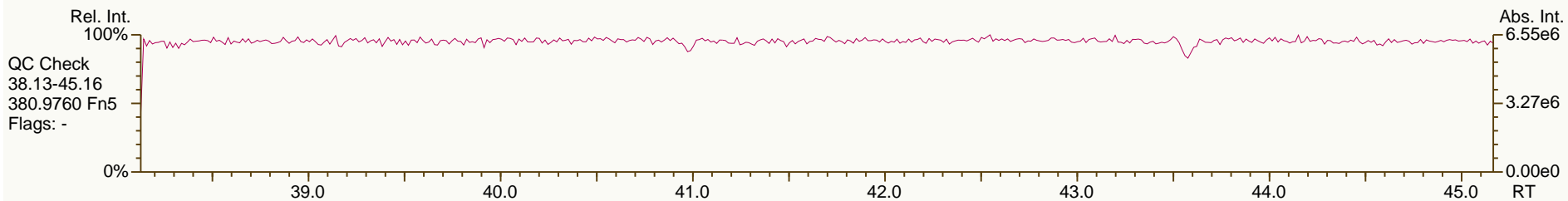
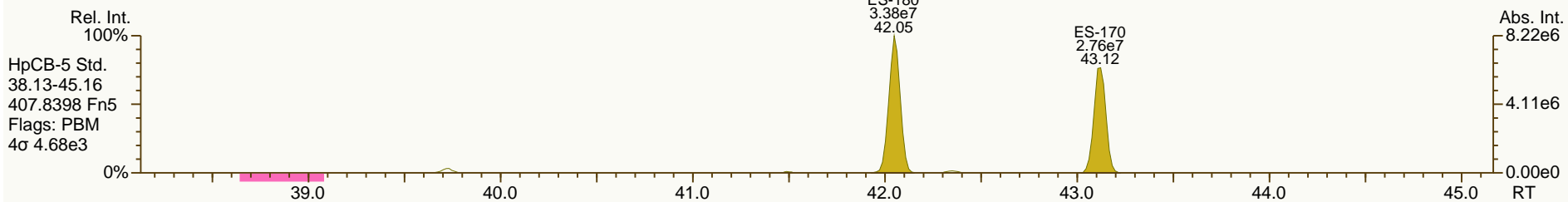
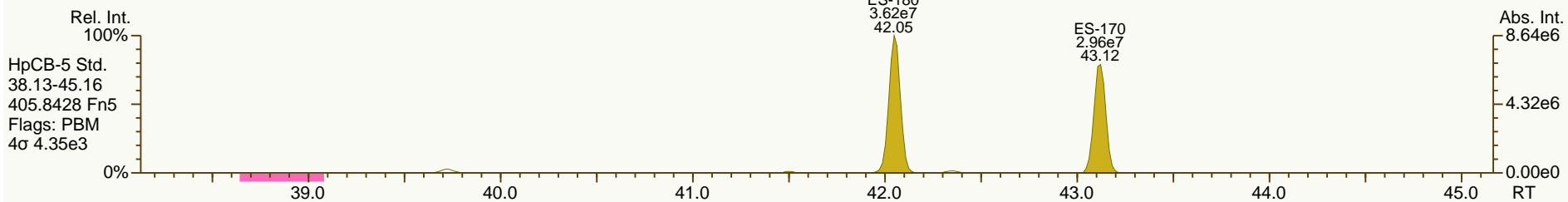
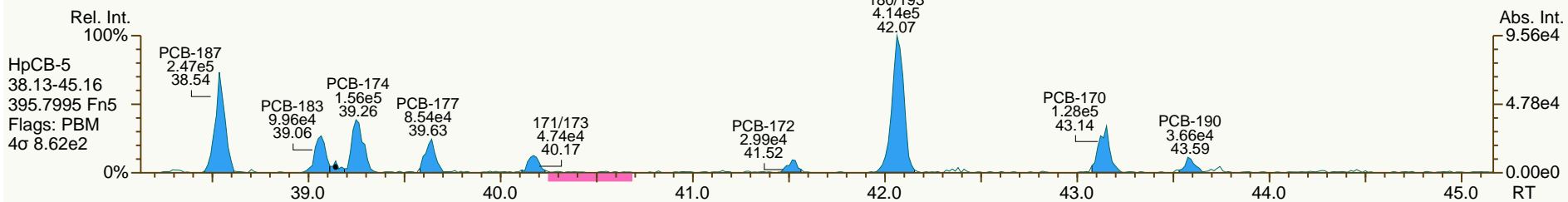
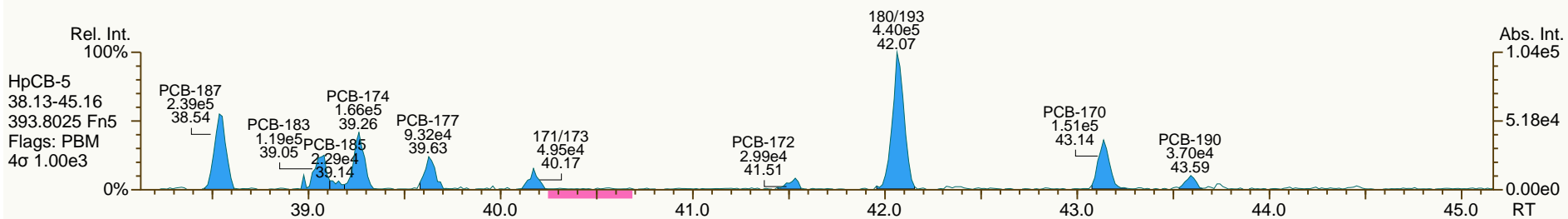
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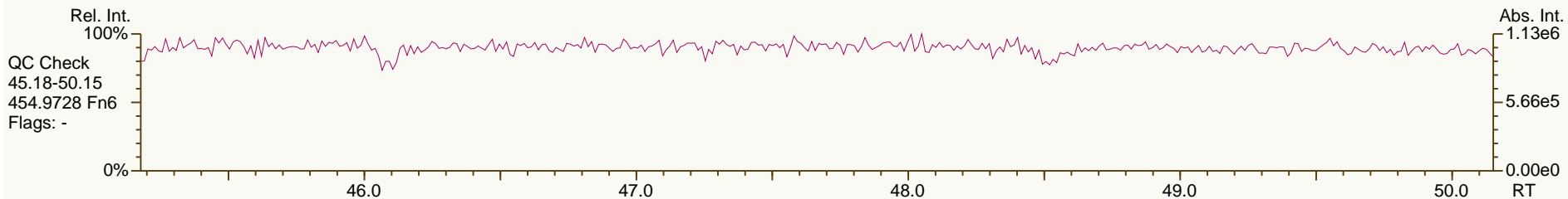
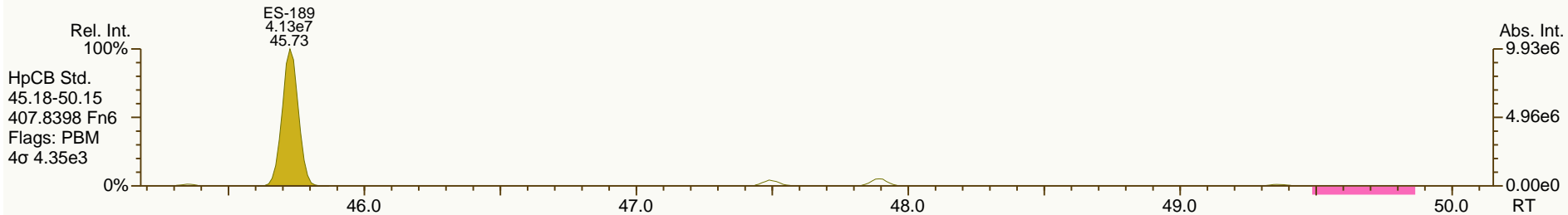
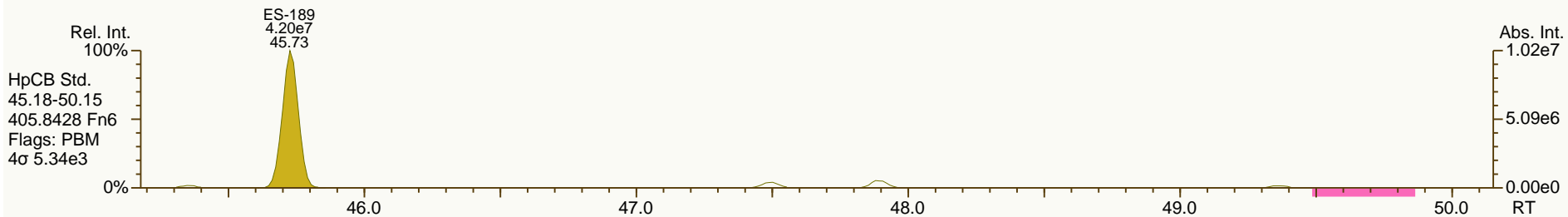
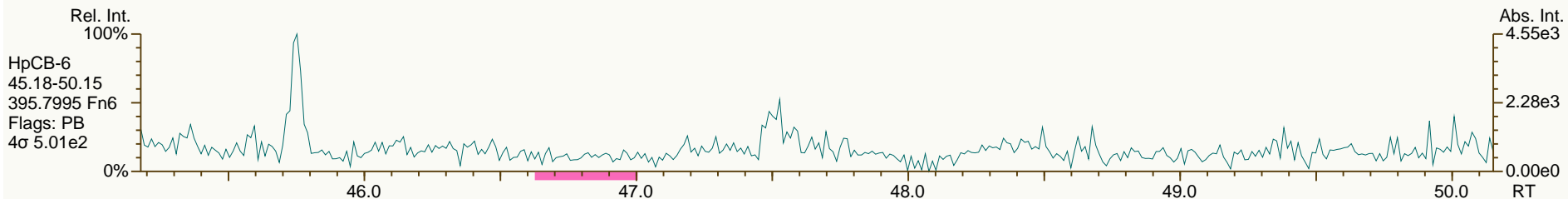
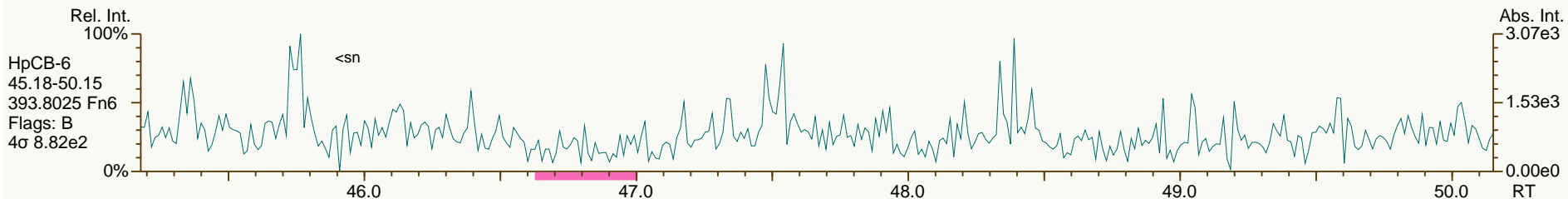
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SGS ID: A6521\_11903\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB093\_A-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 83

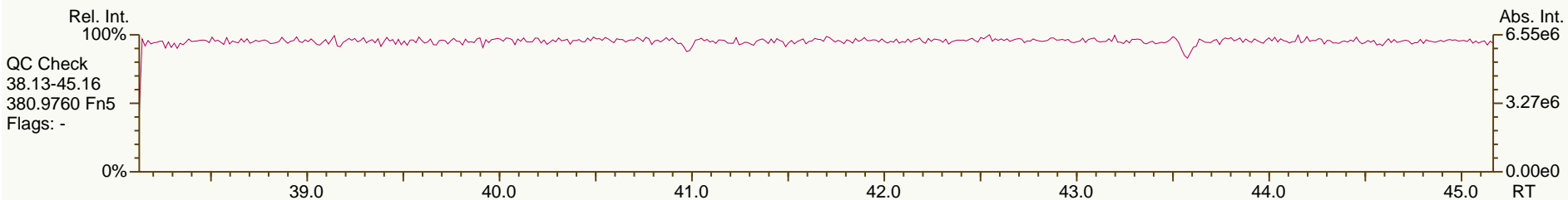
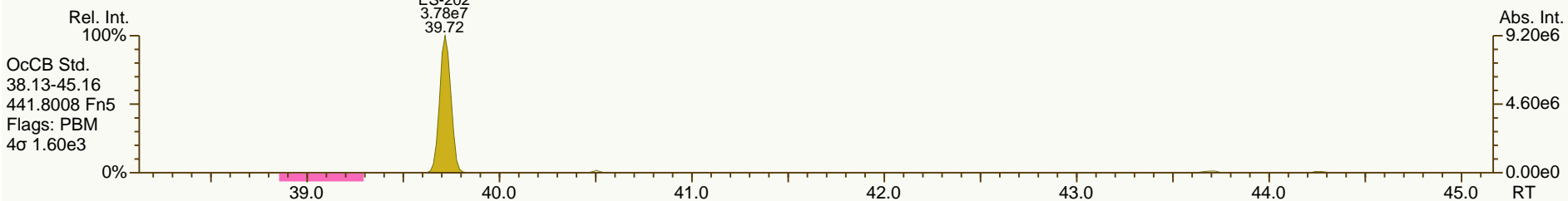
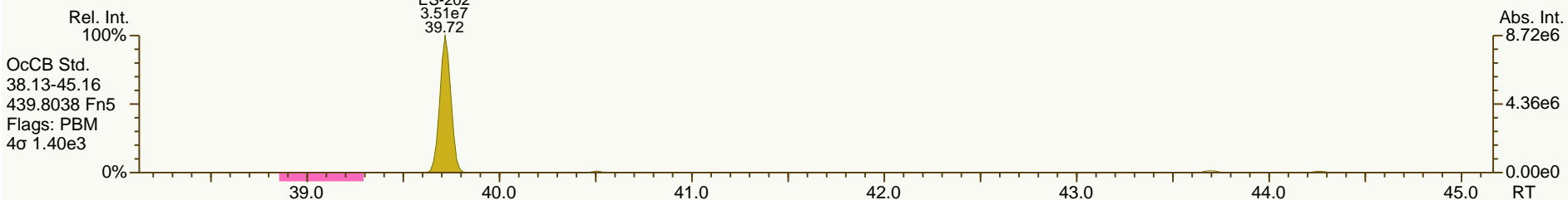
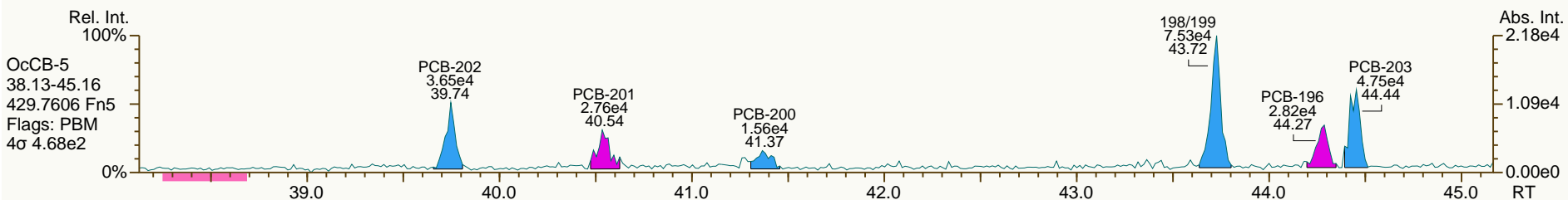
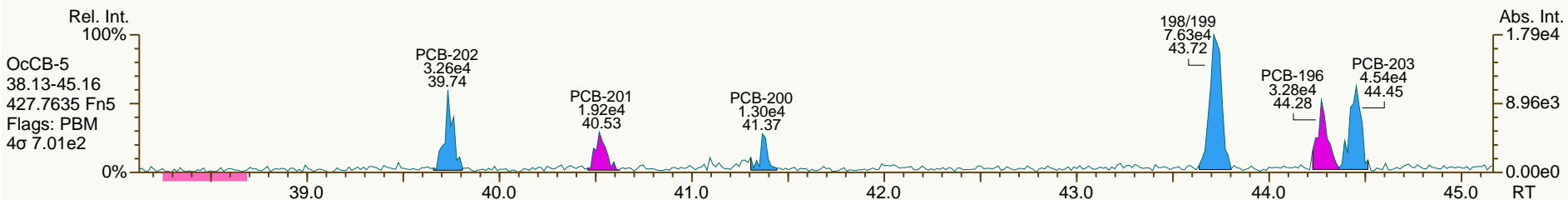
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SGS ID: A6521\_11903\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB093\_A-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 83

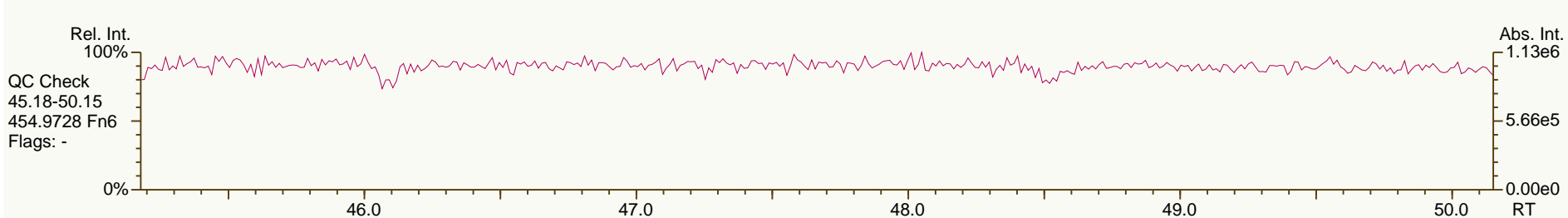
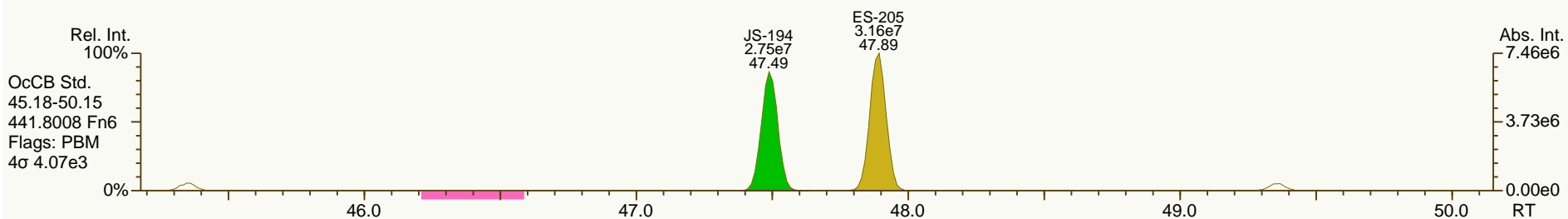
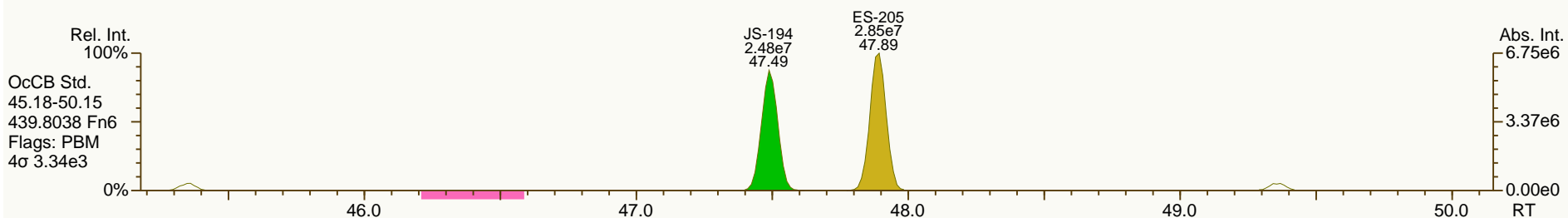
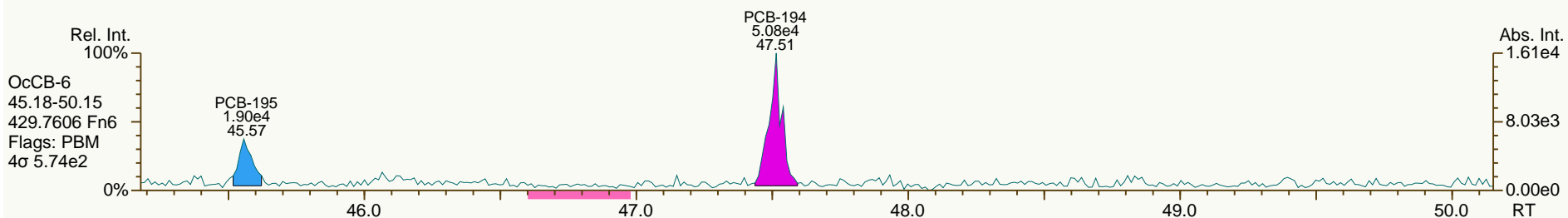
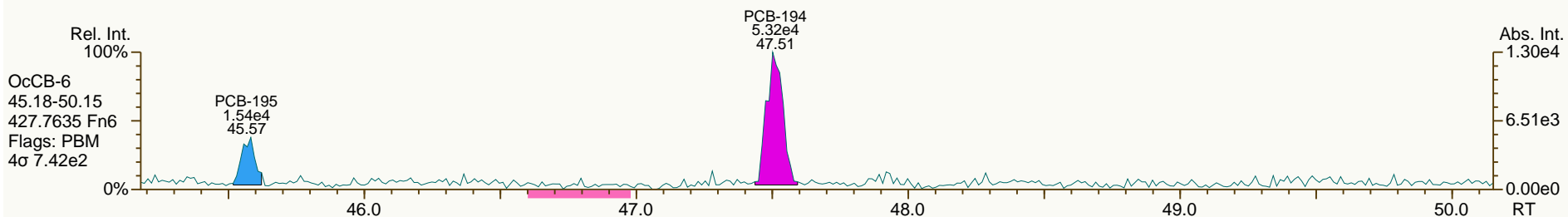
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 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB093\_A-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 83

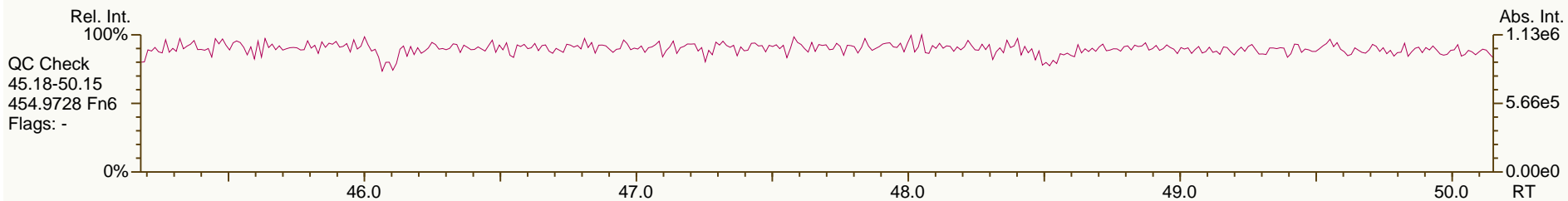
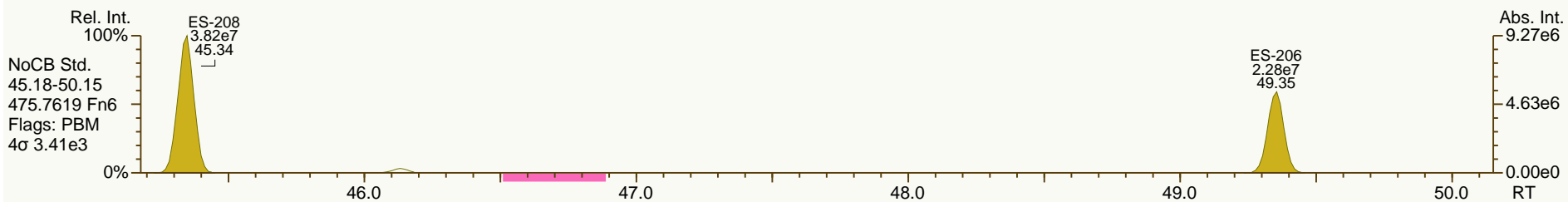
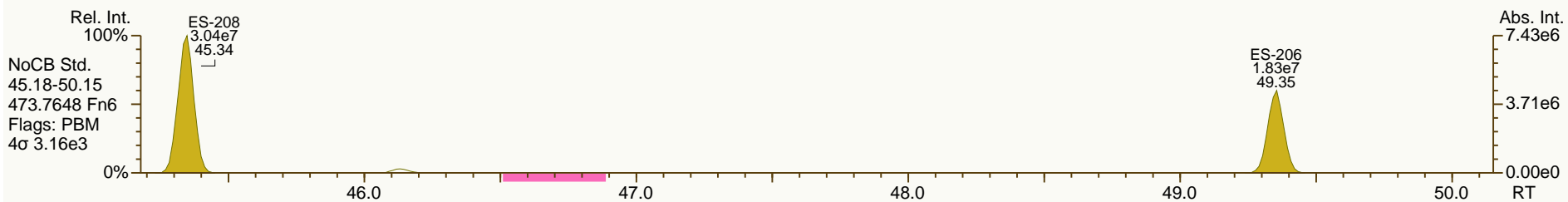
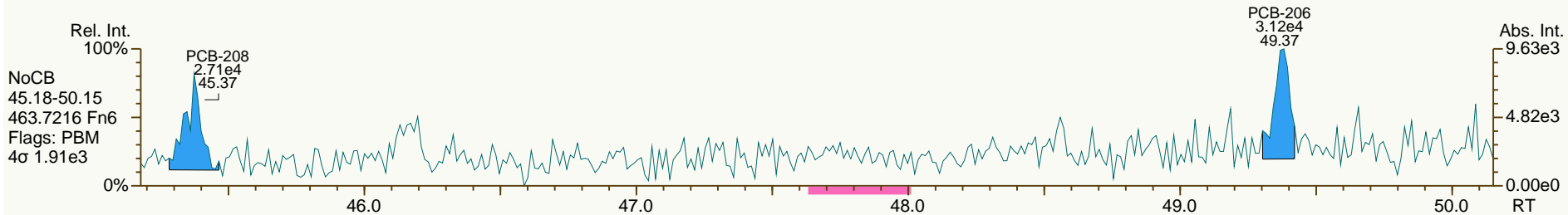
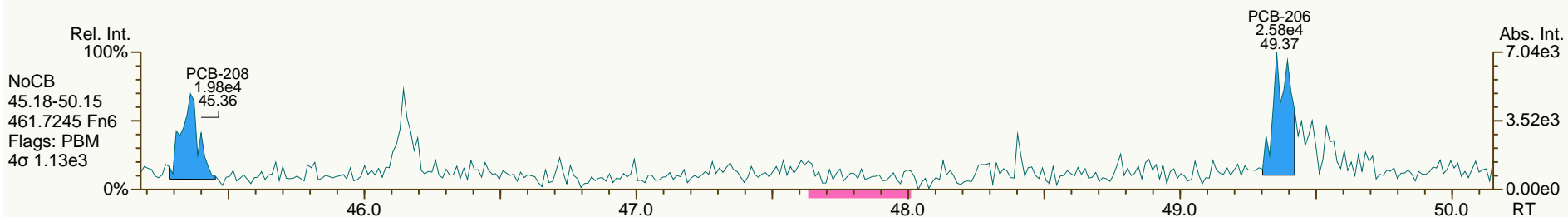
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SGS ID: A6521\_11903\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB093\_A-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 83

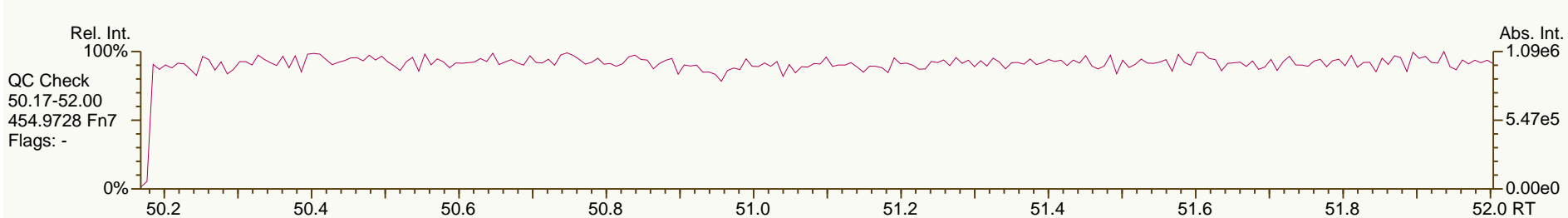
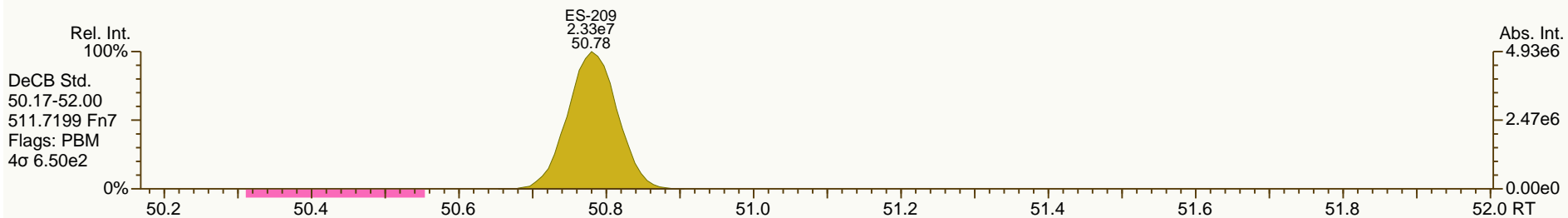
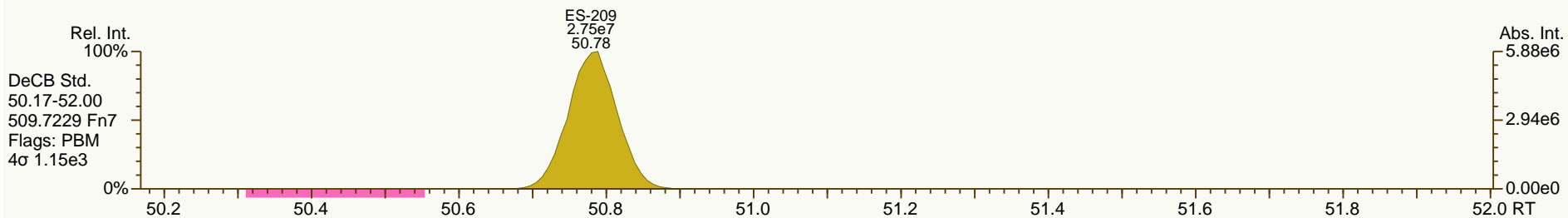
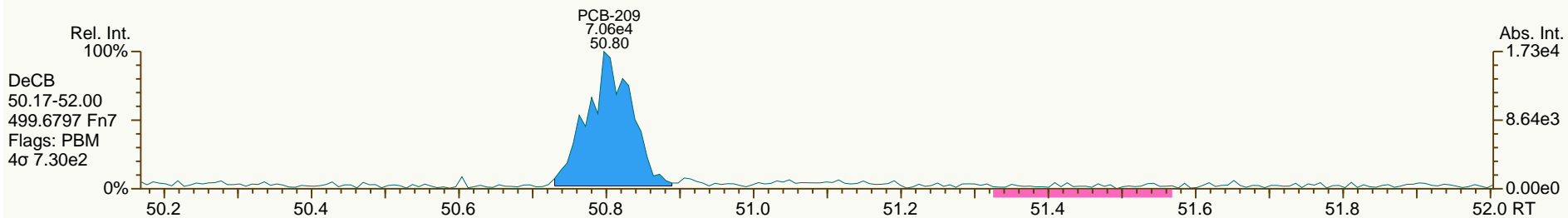
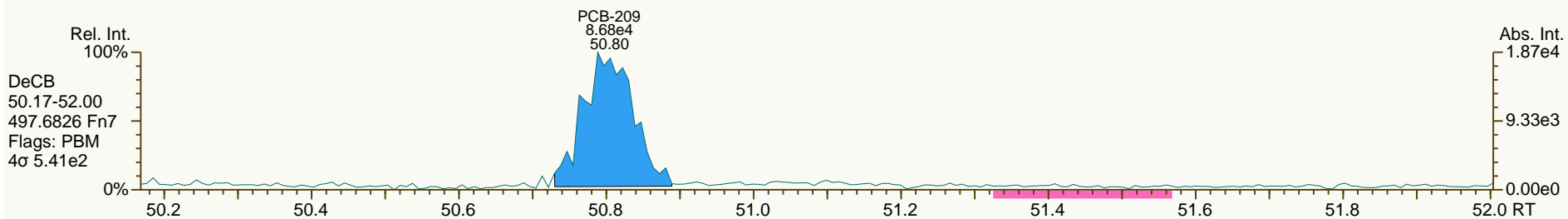
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SGS ID: A6521\_11903\_PCB\_005-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB093\_A-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 83

Acq: 29-Mar-2014 01:16:07  
 User: LKB Datafile: 140328X16



Lab ID: A6521\_11903\_PCB\_006-RJ

ACQ: 29-Mar-2014 02:11:12 LKB

Wt/Vol: 1.22 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140328\_PCB\_XB

Client ID: PB095-1SWMID-140318-N

UTP: 31-Mar-2014 08:15 DES

J-level: 8.2 pg/L Split: 1

Checkcode: 161-330-MBY

Datafile: 140328X17

RPT: 04-Apr-2014 10:14 ds

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0005	-0.2	2.80E+06	0.80	1.15	28.8	6.40E+03	0.654
PCB-81 344'5'-TeCB	32.30	J	1.0005	1.0006	+0.2	1.38E+05	0.75	1.12	1.52	6.40E+03	0.729
PCB-105 233'44'-PeCB	35.76		1.0006	1.0006	0	5.88E+06	0.62	1.11	71.9	4.23E+03	0.538
PCB-114 2344'5'-PeCB	35.21	J	1.0007	1.0006	-0.2	3.58E+05	0.60	1.20	4.12	4.23E+03	0.509
PCB-118 23'44'5'-PeCB	34.75		1.0006	1.0006	0	1.15E+07	0.62	1.19	136	4.23E+03	0.511
PCB-123 23'44'5'-PeCB	34.48	J	1.0006	1.0008	+0.4	3.34E+05	0.60	1.21	3.91	4.23E+03	0.495
PCB-126 33'44'5'-PeCB	38.36	J EMPC	1.0005	1.0004	-0.2	6.57E+04	0.72	1.11	0.921	4.96E+03	0.743
PCB-156/157 ...-HxCB	40.90	J C	1.0005	1.0002	-0.7	5.66E+05	1.21	1.10	8.07	1.93E+03	0.382
PCB-167 23'44'55'-HxCB	39.93	J	1.0006	1.0005	-0.2	2.16E+05	1.30	1.16	2.73	1.93E+03	0.251
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.93E+03	0.281
PCB-189 233'44'55'-HpCB	45.75	J EMPC	1.0004	1.0003	-0.3	2.27E+04	0.68	1.07	0.362	1.62E+03	0.27
PCB-209 DeCB	50.81	J	1.0004	1.0004	0	2.14E+05	1.18	1.11	5.17	1.22E+03	0.344
ES PCB-1	11.87		0.7245	0.7247	+0.1	1.03E+08	3.19	1.19	39.6 %	15%	150%
ES PCB-3	14.15		0.8640	0.8642	+0.2	1.19E+08	3.29	1.09	50.3 %	15%	150%
ES PCB-4	14.40		0.8795	0.8794	-0.1	6.79E+07	1.58	0.52	59.7 %	25%	150%
ES PCB-15	20.11		1.2271	1.2276	+0.6	1.92E+08	1.57	1.04	84.9 %	25%	150%
ES PCB-19	17.48		1.0673	1.0674	+0.1	7.78E+07	1.06	0.51	70.6 %	25%	150%
ES PCB-37	26.43		1.0787	1.0791	+0.6	1.56E+08	1.08	1.66	78.8 %	25%	150%
ES PCB-54	20.39		0.8328	0.8325	-0.4	9.43E+07	0.81	0.86	91.7 %	25%	150%
ES PCB-77	32.76		1.3364	1.3374	+2.0	1.38E+08	0.81	1.38	83.8 %	25%	150%
ES PCB-81	32.28		1.3170	1.3179	+1.7	1.33E+08	0.79	1.37	81.5 %	25%	150%
ES PCB-104	25.36		0.8325	0.8321	-0.6	9.16E+07	1.64	0.80	103 %	25%	150%
ES PCB-105	35.74		1.1720	1.1725	+1.1	1.21E+08	1.58	1.20	90.3 %	25%	150%
ES PCB-114	35.19		1.1543	1.1547	+0.8	1.18E+08	1.57	1.22	87.5 %	25%	150%
ES PCB-118	34.73		1.1391	1.1395	+0.8	1.16E+08	1.58	1.16	90.3 %	25%	150%
ES PCB-123	34.45		1.1299	1.1303	+0.8	1.16E+08	1.56	1.19	87.8 %	25%	150%
ES PCB-126	38.35		1.2575	1.2582	+1.6	1.06E+08	1.54	1.03	92.5 %	25%	150%
ES PCB-153	36.31		0.9716	0.9716	0	8.37E+07	1.29	1.11	84.4 %	25%	150%
ES PCB-155	30.31		0.8114	0.8110	-0.7	1.14E+08	1.28	1.59	81.6 %	25%	150%
ES PCB-156/157	40.89		1.0939	1.0942	+0.7	2.10E+08	1.25	1.60	74.6 %	25%	150%
ES PCB-167	39.91		1.0677	1.0678	+0.2	1.11E+08	1.26	1.67	76 %	25%	150%
ES PCB-169	43.61		1.1664	1.1668	+1.0	1.00E+08	1.25	1.56	73.2 %	25%	150%
ES PCB-170	43.12		0.9081	0.9080	-0.3	6.55E+07	1.09	0.95	89.4 %	25%	150%
ES PCB-180	42.05		0.8856	0.8855	-0.3	7.94E+07	1.06	1.14	92.9 %	25%	150%
ES PCB-188	35.19		0.7413	0.7409	-0.8	8.40E+07	1.08	0.94	102 %	25%	150%
ES PCB-189	45.73		0.9629	0.9629	0	9.59E+07	1.02	1.58	86.2 %	25%	150%
ES PCB-202	39.72		0.8366	0.8364	-0.5	8.29E+07	0.90	0.97	97.2 %	25%	150%
ES PCB-205	47.89		1.0084	1.0084	0	7.12E+07	0.89	1.24	81.4 %	25%	150%
ES PCB-206	49.36		1.0392	1.0392	0	4.85E+07	0.80	0.83	83.2 %	25%	150%
ES PCB-208	45.35		0.9549	0.9548	-0.3	7.72E+07	0.79	1.17	93.5 %	25%	150%
ES PCB-209	50.78		1.0694	1.0693	-0.3	6.10E+07	1.19	1.11	78.2 %	25%	150%



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87	V	0.9339	0.9339	0	2.48E+08	1.08	1.11	143 %	30%	135%
SS PCB-111	32.77	V	1.0750	1.0752	+0.4	1.69E+08	1.59	1.03	142 %	30%	135%
SS PCB-178	37.75	V	1.0100	1.0100	0	7.56E+07	1.09	0.62	145 %	30%	135%
CS PCB-28	22.87		0.9339	0.9339	0	2.48E+08	1.08	1.85	112 %	30%	135%
CS PCB-111	32.77		1.0750	1.0752	+0.4	1.69E+08	1.59	1.22	124 %	30%	135%
CS PCB-178	37.75	V	1.0100	1.0100	0	7.56E+07	1.09	0.58	148 %	30%	135%
JS PCB-9	16.38					2.18E+08	1.56				
JS PCB-52	24.49					1.19E+08	0.79				
JS PCB-101	30.48					1.11E+08	1.61				
JS PCB-138	37.37					8.79E+07	1.27				
JS PCB-194	47.49					7.03E+07	0.89				
					<b>Totals</b>	<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
					Mono-CBs	21.2	21.2	0.523			
					Di-CBs	305	305	0.608			
					Tri-CBs	1,730	1,730	1.01			
					Tetra-CBs	3,100	3,100	0.46			
					Penta-CBs	1,320	1,320	0.494			
					Hexa-CBs	295	299	0.263			
					Hepta-CBs	82.5	85.1	0.302			
					Octa-CBs	22.1	23.1	0.278			
					Nona-CBs	0	3.29	0.944			
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	7.74E+05	3.03	0.95	13	5.17E+03	0.53
PCB-2 3-MoCB	13.98	J	0.9880	0.9881	+0.1	2.18E+05	3.59	1.17	2.58	5.17E+03	0.448
PCB-3 4-MoCB	14.17	J B	1.0010	1.0009	-0.1	4.14E+05	2.85	1.01	5.66	5.17E+03	0.517
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	5.67E+06	1.57	1.23	111	6.25E+03	0.902
PCB-10 26'-DiCB	14.60	J	1.0135	1.0135	0	2.43E+05	1.45	1.92	3.05	6.25E+03	0.578
PCB-9 25'-DiCB	16.40	J	1.0010	1.0011	+0.1	3.95E+05	1.41	0.97	3.48	4.13E+03	0.33
PCB-7 24'-DiCB	16.56	J	1.0111	1.0111	0	2.66E+05	1.43	1.10	2.06	4.13E+03	0.291
PCB-6 23'-DiCB	16.79		1.0249	1.0249	0	6.69E+06	1.56	1.03	55.5	4.13E+03	0.311
PCB-5 23'-DiCB	NotFnd		1.0433	-		0.00E+00		1.03	ND	4.13E+03	0.309
PCB-8 24'-DiCB	17.21		1.0506	1.0508	+0.2	6.29E+06	1.62	1.04	51.7	4.13E+03	0.308
PCB-14 35'-DiCB	NotFnd		0.9334	-		0.00E+00		1.23	ND	4.13E+03	0.26
PCB-11 33'-DiCB	19.55	B	0.9721	0.9721	0	3.26E+06	1.66	1.06	26.2	4.13E+03	0.301
PCB-13/12 34' /34'-DiCB	19.81	C	0.9866	0.9854	-1.4	2.57E+06	1.71	1.06	20.8	4.13E+03	0.302
PCB-15 44'-DiCB	20.12		1.0008	1.0007	-0.1	3.74E+06	1.64	1.02	31.3	4.13E+03	0.313
PCB-19 22'6-TrCB	17.50		1.0010	1.0011	+0.1	4.20E+06	1.07	1.15	77.1	6.96E+03	1.05
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1020	+0.7	2.19E+07	1.04	1.56	296	6.96E+03	0.772
PCB-17 22'4-TrCB	19.66		1.1243	1.1245	+0.2	8.80E+06	1.05	1.33	139	6.96E+03	0.905
PCB-27 23'6-TrCB	19.85		1.1353	1.1355	+0.2	2.10E+06	1.07	1.82	24.3	6.96E+03	0.662
PCB-24 236-TrCB	19.98	J	1.1430	1.1428	-0.2	1.63E+05	1.02	1.74	1.98	6.96E+03	0.693
PCB-16 22'3-TrCB	20.08		1.1484	1.1487	+0.4	4.06E+06	1.07	0.99	86.6	6.96E+03	1.22

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.56		1.1758	1.1761	+0.4	1.45E+07	1.06	1.93	158	6.96E+03	0.623
PCB-34 23'5'-TrCB	21.71	J	0.8218	0.8216	-0.3	3.65E+05	0.97	1.25	3.06	1.02E+04	0.845
PCB-23 235-TrCB	NotFnd		0.8275	-		0.00E+00		1.27	ND	1.02E+04	0.833
PCB-26/29 23'5'/245-TrCB	22.12	C	0.8383	0.8370	-1.7	1.03E+07	1.01	1.28	84.4	1.02E+04	0.823
PCB-25 23'4-TrCB	22.34		0.8456	0.8453	-0.4	1.25E+07	1.00	1.26	104	1.02E+04	0.835
PCB-31 24'5-TrCB	22.62		0.8562	0.8559	-0.4	3.42E+07	1.01	1.34	267	1.02E+04	0.785
PCB-28/20 244'/233'-TrCB	22.89	C	0.8670	0.8663	-1.0	3.71E+07	1.02	1.26	310	1.02E+04	0.84
PCB-21/33 234/23'4'-TrCB	23.11	C	0.8738	0.8742	+0.6	6.00E+06	1.01	1.28	49	1.02E+04	0.822
PCB-22 234'-TrCB	23.46		0.8880	0.8877	-0.4	9.18E+06	1.01	1.20	80.2	1.02E+04	0.879
PCB-36 33'5-TrCB	NotFnd		0.9401	-		0.00E+00		1.32	ND	1.02E+04	0.8
PCB-39 34'5-TrCB	25.16	J EMPC	0.9522	0.9520	-0.3	1.39E+05	0.88	1.36	1.07	1.02E+04	0.777
PCB-38 345-TrCB	NotFnd		0.9723	-		0.00E+00		1.22	ND	1.02E+04	0.865
PCB-35 33'4-TrCB	26.08	J	0.9871	0.9870	-0.2	6.74E+05	1.09	1.19	5.94	1.02E+04	0.887
PCB-37 344'-TrCB	26.45		1.0007	1.0009	+0.3	4.23E+06	1.02	1.08	41.1	1.02E+04	0.978
PCB-54 22'66'-TeCB	20.41	J	1.0010	1.0009	-0.1	2.19E+05	0.68	1.35	2.82	2.14E+03	0.249
PCB-50/53 22'46/22'56'-TeCB	22.37	C	0.9145	0.9134	-1.5	7.68E+06	0.79	0.92	103	2.38E+03	0.329
PCB-45 22'36-TeCB	22.98		0.9383	0.9382	-0.1	4.37E+06	0.79	0.84	64.1	2.38E+03	0.361
PCB-51 22'46'-TeCB	23.05		0.9413	0.9412	-0.1	4.42E+06	0.81	0.90	60.8	2.38E+03	0.339
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	2.12E+06	0.76	0.74	35.5	2.38E+03	0.412
PCB-52 22'55'-TeCB	24.51		1.0009	1.0009	0	3.86E+07	0.78	0.90	530	2.38E+03	0.338
PCB-73 23'5'6-TeCB	24.64	J	1.0062	1.0061	-0.1	1.31E+05	0.76	1.19	1.35	2.38E+03	0.254
PCB-43 22'35-TeCB	24.74		1.0101	1.0100	-0.1	1.10E+06	0.78	0.75	17.9	2.38E+03	0.402
PCB-69/49 23'46/22'45'-TeCB	24.96	C	1.0181	1.0189	+1.2	2.69E+07	0.79	1.10	303	2.38E+03	0.277
PCB-48 22'45-TeCB	25.22		1.0295	1.0296	+0.2	4.26E+06	0.78	0.90	58	2.38E+03	0.335
PCB-44/47/65 ...-TeCB	25.41	C	1.0384	1.0376	-1.2	3.70E+07	0.78	0.96	473	2.38E+03	0.314
PCB-59/62/75 ...-TeCB	25.70	C	1.0496	1.0494	-0.3	3.33E+06	0.77	1.25	32.8	2.38E+03	0.242
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	8.45E+06	0.79	0.82	127	2.38E+03	0.37
PCB-41 22'34-TeCB	26.20		1.0698	1.0699	+0.2	1.27E+06	0.80	0.76	20.6	2.38E+03	0.398
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	1.59E+07	0.79	0.92	214	2.38E+03	0.331
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	1.82E+07	0.79	1.33	169	2.38E+03	0.228
PCB-72 23'55'-TeCB	27.22	J	0.8436	0.8432	-0.7	3.55E+05	0.79	1.26	3.46	6.40E+03	0.645
PCB-68 23'45'-TeCB	27.48		0.8515	0.8512	-0.5	2.54E+06	0.80	1.35	23.2	6.40E+03	0.604
PCB-57 233'5-TeCB	27.85	J EMPC	0.8630	0.8627	-0.5	2.47E+05	0.91	1.22	2.5	6.40E+03	0.669
PCB-58 233'5'-TeCB	28.04	J	0.8693	0.8688	-0.8	1.66E+05	0.79	1.27	1.61	6.40E+03	0.64
PCB-67 23'45-TeCB	28.21		0.8741	0.8740	-0.2	9.25E+05	0.82	1.33	8.59	6.40E+03	0.615
PCB-63 234'5-TeCB	28.43		0.8811	0.8809	-0.3	1.66E+06	0.81	1.40	14.6	6.40E+03	0.583
PCB-61/70/74/76 ...-TeCB	28.71	C	0.8902	0.8895	-1.2	2.91E+07	0.79	1.25	287	6.40E+03	0.654
PCB-66 23'44'-TeCB	29.01		0.8989	0.8986	-0.5	2.87E+07	0.80	1.18	300	6.40E+03	0.692
PCB-55 233'4-TeCB	29.16	J	0.9034	0.9033	-0.2	3.64E+05	0.79	1.18	3.8	6.40E+03	0.69
PCB-56 233'4'-TeCB	29.59		0.9169	0.9167	-0.4	1.41E+07	0.80	1.17	149	6.40E+03	0.699
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	5.91E+06	0.81	1.20	60.6	6.40E+03	0.679
PCB-80 33'55'-TeCB	NotFnd		0.9329	-		0.00E+00		1.38	ND	6.40E+03	0.592
PCB-79 33'45'-TeCB	31.44	J	0.9737	0.9740	+0.6	3.02E+05	0.80	1.37	2.71	6.40E+03	0.594
PCB-78 33'45-TeCB	NotFnd		0.9889	-		0.00E+00		1.15	ND	6.40E+03	0.711
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.43E+03	0.17
PCB-96 22'366'-PeCB	25.70	J	1.0134	1.0134	0	3.55E+05	0.60	1.18	5.36	1.43E+03	0.206
PCB-103 22'45'6-PeCB	27.39	J	0.8989	0.8988	-0.2	1.40E+05	0.59	0.93	2.13	4.23E+03	0.643
PCB-94 22'356'-PeCB	27.58	J	0.9051	0.9049	-0.3	1.54E+05	0.58	0.79	2.77	4.23E+03	0.759

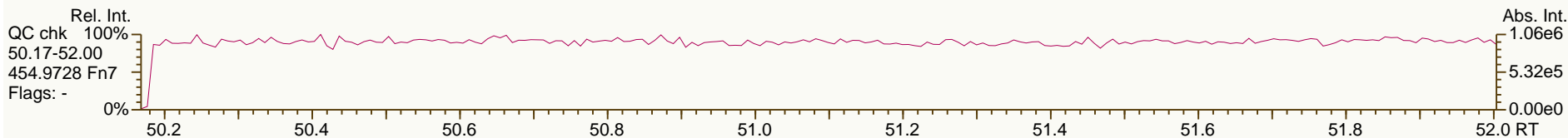
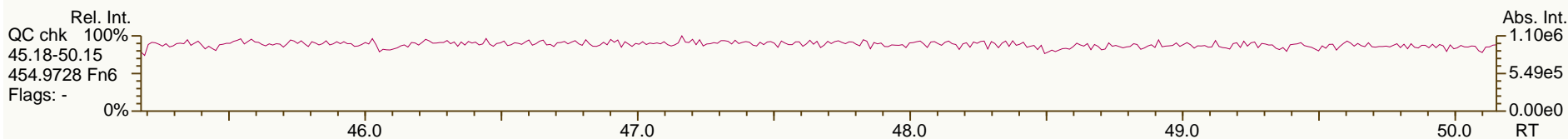
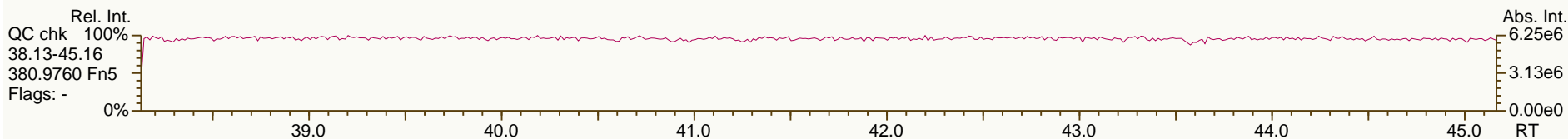
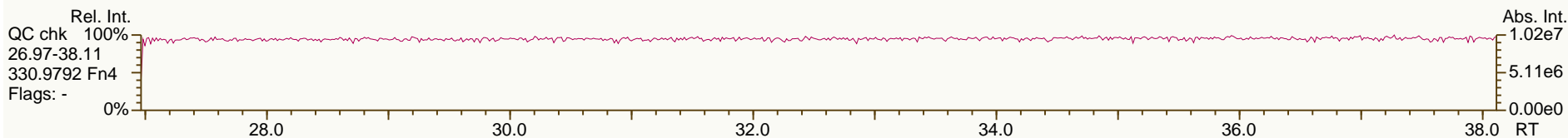
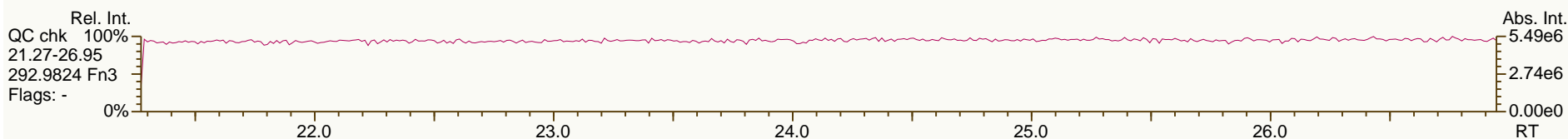
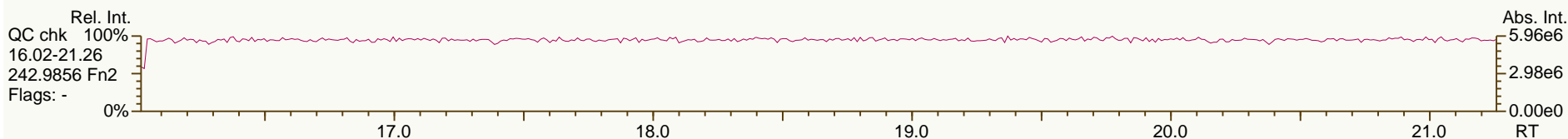
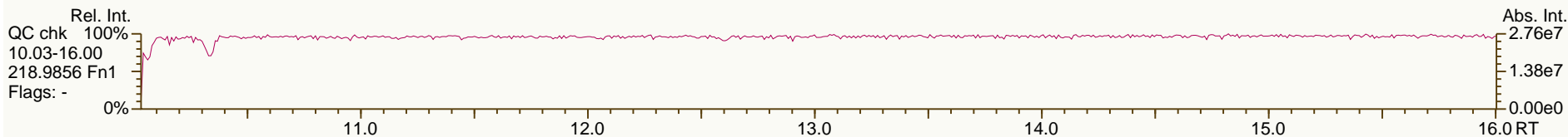
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9175	-0.2	8.83E+06	0.61	0.86	145	4.23E+03	0.695
PCB-100/93 22'44'6/22'356-PeCB	28.17	J C	0.9246	0.9244	-0.3	2.19E+05	0.65	0.86	3.61	4.23E+03	0.698
PCB-102 22'456'-PeCB	28.28		0.9282	0.9279	-0.5	7.87E+05	0.60	1.00	11.1	4.23E+03	0.598
PCB-98 22'34'6'-PeCB	28.35	J	0.9305	0.9302	-0.5	6.64E+04	0.58	0.74	1.28	4.23E+03	0.813
PCB-88 22'346-PeCB	NotFnd		0.9403	-		0.00E+00		0.78	ND	4.23E+03	0.771
PCB-91 22'34'6-PeCB	28.72		0.9424	0.9424	0	2.61E+06	0.63	0.92	40.2	4.23E+03	0.651
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	3.80E+06	0.62	0.71	75.4	4.23E+03	0.84
PCB-89 22'346'-PeCB	29.33	J	0.9624	0.9624	0	3.82E+05	0.62	0.76	7.14	4.23E+03	0.79
PCB-121 23'45'6-PeCB	NotFnd		0.9736	-		0.00E+00		1.20	ND	4.23E+03	0.501
PCB-92 22'355'-PeCB	29.99		0.9841	0.9841	0	2.03E+06	0.64	0.81	35.5	4.23E+03	0.739
PCB-113/90/101 ...-PeCB	30.50	C	0.9999	1.0007	+1.5	1.13E+07	0.62	0.96	167	4.23E+03	0.624
PCB-83 22'33'5-PeCB	30.91		1.0142	1.0141	-0.2	7.26E+05	0.64	0.70	14.8	4.23E+03	0.86
PCB-99 22'44'5-PeCB	31.01		1.0173	1.0173	0	6.82E+06	0.63	0.90	108	4.23E+03	0.668
PCB-112 233'56-PeCB	31.12	J	1.0206	1.0211	+0.9	7.77E+04	0.65	1.17	0.943	4.23E+03	0.513
PCB-108/119/86/97/125...-PeCB	31.48	C	1.0320	1.0329	+1.7	9.85E+06	0.62	0.98	143	4.23E+03	0.614
PCB-117 234'56-PeCB	31.99	J	1.0495	1.0494	-0.2	4.91E+05	0.61	1.18	5.91	4.23E+03	0.509
PCB-116/85 23456/22'344'-PeCB	32.07	C	1.0525	1.0521	-0.8	3.10E+06	0.60	0.88	50.1	4.23E+03	0.685
PCB-110 233'4'6-PeCB	32.20		1.0561	1.0564	+0.6	1.69E+07	0.62	1.10	219	4.23E+03	0.547
PCB-115 2344'6-PeCB	32.29	J	1.0590	1.0595	+1.0	3.61E+05	0.64	1.16	4.42	4.23E+03	0.518
PCB-82 22'33'4-PeCB	32.48		1.0655	1.0657	+0.4	1.83E+06	0.64	0.69	37.6	4.23E+03	0.871
PCB-111 233'55'-PeCB	NotFnd		1.0757	-		0.00E+00		1.21	ND	4.23E+03	0.497
PCB-120 23'455'-PeCB	33.19	EMPC	1.0887	1.0888	+0.2	4.23E+04	0.74	1.22	0.49	4.23E+03	0.49
PCB-107/124 ...-PeCB	34.16	J C	0.9916	0.9916	0	4.73E+05	0.64	1.11	6.06	4.23E+03	0.541
PCB-109 233'46-PeCB	34.37		0.9976	0.9977	+0.2	1.10E+06	0.60	1.24	12.6	4.23E+03	0.484
PCB-106 233'45-PeCB	34.57	J	1.0038	1.0034	-0.8	1.11E+05	0.55	1.11	1.42	4.23E+03	0.541
PCB-122 233'4'5'-PeCB	35.05	J	1.0091	1.0091	0	2.29E+05	0.62	1.03	3.07	4.23E+03	0.592
PCB-127 33'455'-PeCB	NotFnd		1.0350	-		0.00E+00		1.12	ND	4.23E+03	0.537
PCB-155 22'44'66'-HxCB	30.33	J	1.0007	1.0007	0	7.17E+04	1.28	1.26	0.818	1.21E+03	0.138
PCB-152 22'3566'-HxCB	30.48	J	1.0060	1.0058	-0.4	1.98E+04	1.25	1.14	0.25	1.21E+03	0.153
PCB-150 22'34'66'-HxCB	NotFnd		1.0107	-		0.00E+00		1.15	ND	1.21E+03	0.15
PCB-136 22'33'66'-HxCB	30.94		1.0207	1.0208	+0.2	7.10E+05	1.19	1.06	9.64	1.21E+03	0.164
PCB-145 22'3466'-HxCB	NotFnd		1.0296	-		0.00E+00		1.09	ND	1.21E+03	0.159
PCB-148 22'34'56'-HxCB	NotFnd		1.0714	-		0.00E+00		1.15	ND	1.21E+03	0.213
PCB-151/135 ...-HxCB	33.00	B C	1.0886	1.0886	0	1.07E+06	1.21	1.09	19.1	1.21E+03	0.224
PCB-154 22'44'56'-HxCB	33.21	J	1.0954	1.0956	+0.4	6.60E+04	1.28	1.29	1	1.21E+03	0.19
PCB-144 22'345'6-HxCB	33.48	J	1.1041	1.1045	+0.8	1.61E+05	1.07	1.14	2.77	1.21E+03	0.215
PCB-147/149 ...-HxCB	33.77	C	1.1141	1.1143	+0.4	2.70E+06	1.28	1.11	47.5	1.21E+03	0.219
PCB-134 22'33'56-HxCB	33.95	J EMPC	1.1199	1.1202	+0.6	1.80E+05	1.45	0.93	3.78	1.21E+03	0.262
PCB-143 22'3456'-HxCB	34.03	J	1.1225	1.1226	+0.2	2.52E+04	1.33	1.02	0.483	1.21E+03	0.239
PCB-139/140 ...-HxCB	34.29	J C	1.1312	1.1313	+0.2	9.17E+04	1.31	1.13	1.59	1.21E+03	0.216
PCB-131 22'33'46-HxCB	34.48	J	1.1369	1.1374	+1.0	6.44E+04	1.37	0.98	1.29	1.21E+03	0.25
PCB-142 22'3456-HxCB	NotFnd		1.1416	-		0.00E+00		0.95	ND	1.21E+03	0.257
PCB-132 22'33'46'-HxCB	34.85		1.1494	1.1498	+0.8	1.25E+06	1.27	0.99	24.7	1.21E+03	0.247
PCB-133 22'33'55'-HxCB	35.25	J	1.1626	1.1630	+0.8	5.68E+04	1.25	1.05	1.06	1.21E+03	0.233
PCB-165 233'55'6-HxCB	NotFnd		0.9525	-		0.00E+00		1.35	ND	1.21E+03	0.181
PCB-146 22'34'55'-HxCB	35.81		0.9582	0.9581	-0.2	5.56E+05	1.19	1.15	9.47	1.21E+03	0.212
PCB-161 233'45'6-HxCB	NotFnd		0.9613	-		0.00E+00		1.47	ND	1.21E+03	0.166
PCB-153/168 ...-HxCB	36.33	C	0.9728	0.9721	-1.5	3.52E+06	1.30	1.42	48.6	1.21E+03	0.173

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.50		0.9766	0.9765	-0.2	5.80E+05	1.23	1.04	10.9	1.21E+03	0.235
PCB-130 22'33'45'-HxCB	36.85	J	0.9859	0.9859	0	2.70E+05	1.36	0.92	5.76	1.21E+03	0.266
PCB-137 22'344'5'-HxCB	37.05	J	0.9911	0.9912	+0.2	2.33E+05	1.27	1.11	4.09	1.21E+03	0.219
PCB-164 233'4'5'6'-HxCB	37.13	J	0.9933	0.9934	+0.2	3.00E+05	1.23	1.43	4.12	1.21E+03	0.171
PCB-163/138/129 ...-HxCB	37.40	C	1.0011	1.0006	-1.1	4.24E+06	1.27	1.15	72.4	1.21E+03	0.213
PCB-160 233'456'-HxCB	NotFnd		1.0048	-		0.00E+00		1.39	ND	1.21E+03	0.176
PCB-158 233'44'6'-HxCB	37.73	J	1.0096	1.0096	0	5.45E+05	1.25	1.53	6.96	1.21E+03	0.159
PCB-128/166 ...-HxCB	38.48	J C	0.9641	0.9642	+0.2	7.20E+05	1.12	0.90	11.7	1.93E+03	0.322
PCB-159 233'455'-HxCB	39.27	J EMPC	0.9844	0.9840	-0.9	3.43E+04	0.90	1.10	0.458	1.93E+03	0.265
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.10	ND	1.93E+03	0.264
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.09E+03	0.166
PCB-179 22'33'566'-HpCB	35.49	J	1.0086	1.0087	+0.2	2.69E+05	0.96	1.13	4.66	1.09E+03	0.187
PCB-184 22'344'66'-HpCB	35.95	J	1.0216	1.0218	+0.4	8.52E+04	0.99	1.06	1.58	1.09E+03	0.199
PCB-176 22'33'466'-HpCB	36.25	J	1.0300	1.0302	+0.4	9.08E+04	1.11	1.15	1.55	1.09E+03	0.184
PCB-186 22'34566'-HpCB	NotFnd		1.0413	-		0.00E+00		1.07	ND	1.09E+03	0.196
PCB-178 22'33'55'6'-HpCB	37.77	J	1.0733	1.0734	+0.2	1.13E+05	0.93	0.77	2.86	1.09E+03	0.272
PCB-175 22'33'45'6'-HpCB	38.31	J EMPC	1.0887	1.0888	+0.2	2.12E+04	1.58	1.07	0.408	1.84E+03	0.368
PCB-187 22'34'55'6'-HpCB	38.54		1.0952	1.0954	+0.5	7.48E+05	1.06	1.15	13.4	1.84E+03	0.343
PCB-182 22'344'56'-HpCB	NotFnd		1.1002	-		0.00E+00		1.18	ND	1.84E+03	0.336
PCB-183 22'344'5'6'-HpCB	39.06	J	1.1101	1.1102	+0.2	3.18E+05	1.04	1.20	5.49	1.84E+03	0.331
PCB-185 22'3455'6'-HpCB	39.15	J	1.1125	1.1127	+0.5	5.12E+04	1.01	1.10	0.957	1.84E+03	0.358
PCB-174 22'33'456'-HpCB	39.26		1.1156	1.1158	+0.5	4.82E+05	1.00	0.94	10.6	1.84E+03	0.422
PCB-177 22'33'45'6'-HpCB	39.64	J	1.1262	1.1266	+1.0	2.57E+05	1.03	0.92	5.74	1.84E+03	0.428
PCB-181 22'344'56'-HpCB	NotFnd		1.1361	-		0.00E+00		1.07	ND	1.84E+03	0.369
PCB-171/173 ...-HpCB	40.17	J C	1.1413	1.1417	+1.0	1.34E+05	1.06	0.94	2.95	1.84E+03	0.422
PCB-172 22'33'455'-HpCB	41.52	J EMPC	0.9080	0.9079	-0.2	8.68E+04	1.25	0.98	1.83	1.84E+03	0.404
PCB-192 233'455'6'-HpCB	NotFnd		0.9134	-		0.00E+00		1.29	ND	1.84E+03	0.307
PCB-180/193 ...-HpCB	42.07	C	0.9194	0.9199	+1.3	1.26E+06	1.11	1.24	21	1.84E+03	0.318
PCB-191 233'44'5'6'-HpCB	42.38	J	0.9266	0.9267	+0.3	2.93E+04	0.97	1.38	0.437	1.84E+03	0.286
PCB-170 22'33'44'5'-HpCB	43.14		0.9434	0.9434	0	4.32E+05	0.90	1.13	9.54	1.84E+03	0.421
PCB-190 233'44'56'-HpCB	43.59	J	0.9533	0.9532	-0.3	1.12E+05	0.95	1.60	1.75	1.84E+03	0.299
PCB-202 22'33'55'66'-OoCB	39.74	J	1.0005	1.0006	+0.2	1.02E+05	0.84	1.05	1.92	1.17E+03	0.223
PCB-201 22'33'45'66'-OoCB	40.53	J	1.0203	1.0203	0	6.38E+04	0.80	1.14	1.1	1.17E+03	0.205
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.07	ND	1.17E+03	0.219
PCB-197 22'33'44'66'-OoCB	41.32	J EMPC	1.0396	1.0401	+1.2	2.47E+04	0.66	1.10	0.444	1.17E+03	0.213
PCB-200 22'33'4566'-OoCB	41.39	J EMPC	1.0418	1.0421	+0.7	3.07E+04	0.61	1.08	0.559	1.17E+03	0.217
PCB-198/199 ...-OoCB	43.73	J C	1.1001	1.1008	+1.8	2.57E+05	1.00	0.74	6.82	1.17E+03	0.316
PCB-196 22'33'44'56'-OoCB	44.28	J	1.1146	1.1148	+0.5	9.76E+04	0.90	0.80	2.43	1.17E+03	0.295
PCB-203 22'344'55'6'-OoCB	44.45	J	1.1188	1.1191	+0.8	1.55E+05	0.86	0.83	3.69	1.17E+03	0.282
PCB-195 22'33'44'56'-OoCB	45.57	J	0.9516	0.9516	0	5.50E+04	0.88	0.72	1.75	1.47E+03	0.49
PCB-194 22'33'44'55'-OoCB	47.52	J	0.9921	0.9921	0	1.53E+05	0.93	0.81	4.38	1.47E+03	0.439
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.47E+03	0.334
PCB-208 22'33'455'66'-NoCB	45.36	J EMPC	1.0005	1.0003	-0.5	5.55E+04	0.60	1.12	1.05	3.64E+03	0.72
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0178	-		0.00E+00		1.18	ND	3.64E+03	0.689
PCB-206 22'33'44'55'6'-NoCB	49.39	J EMPC	1.0004	1.0007	+0.9	7.38E+04	0.97	1.11	2.24	3.64E+03	1.17

SGS ID: A6521\_11903\_PCB\_006-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB095-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 84

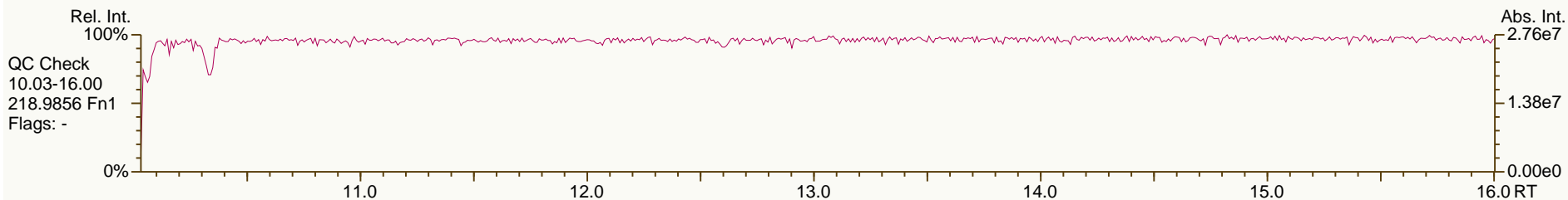
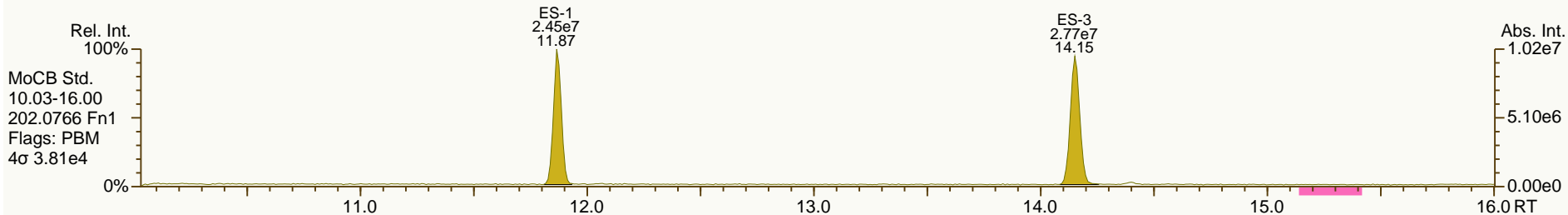
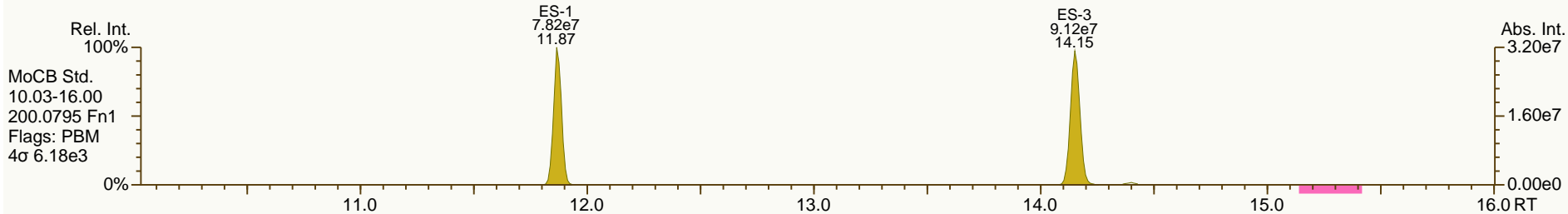
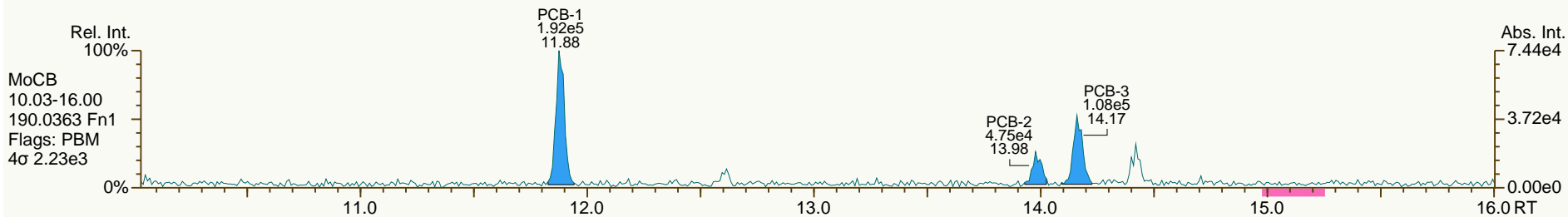
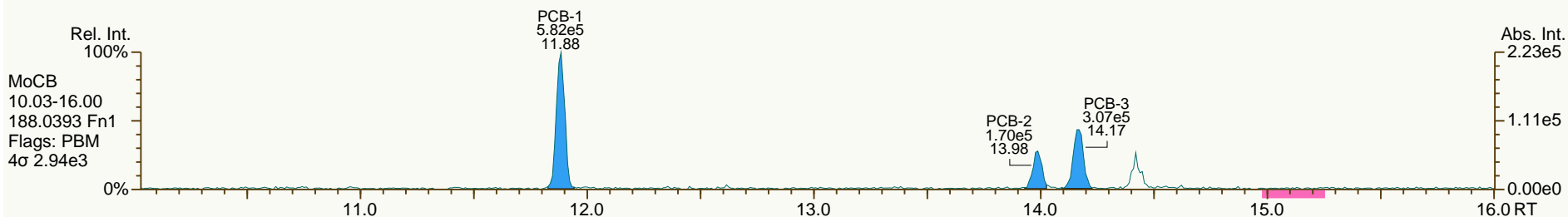
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SGS ID: A6521\_11903\_PCB\_006-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB095-1SWMID-140318-N  
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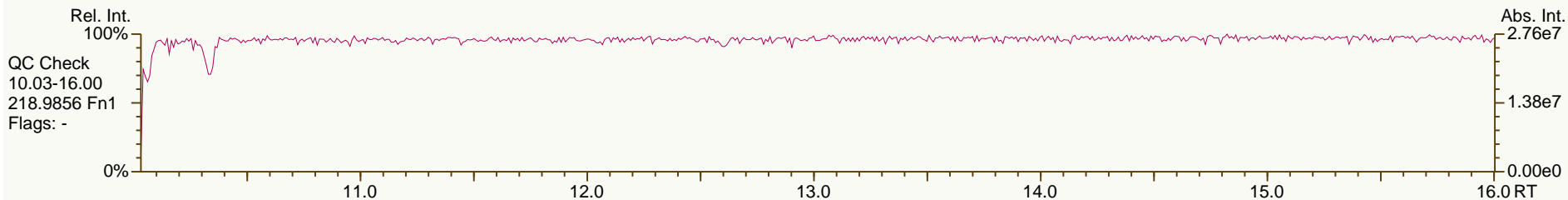
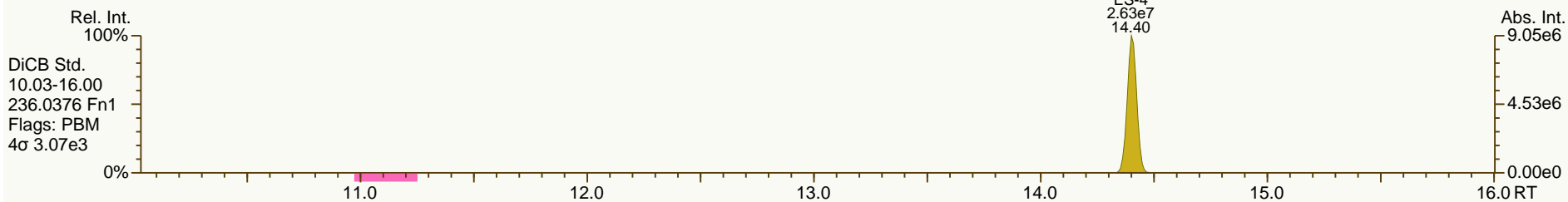
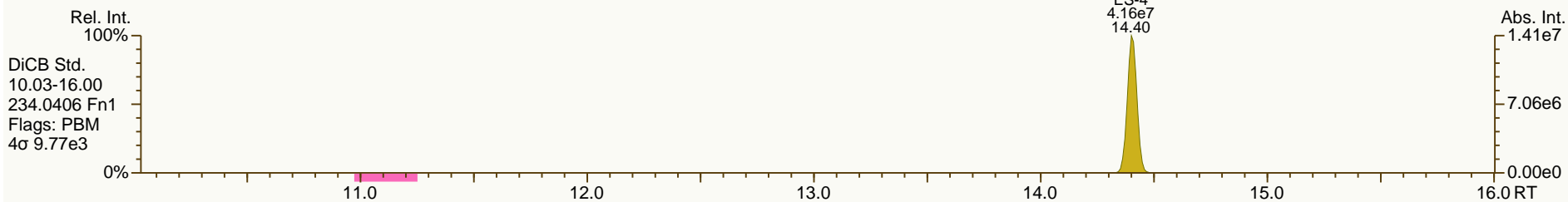
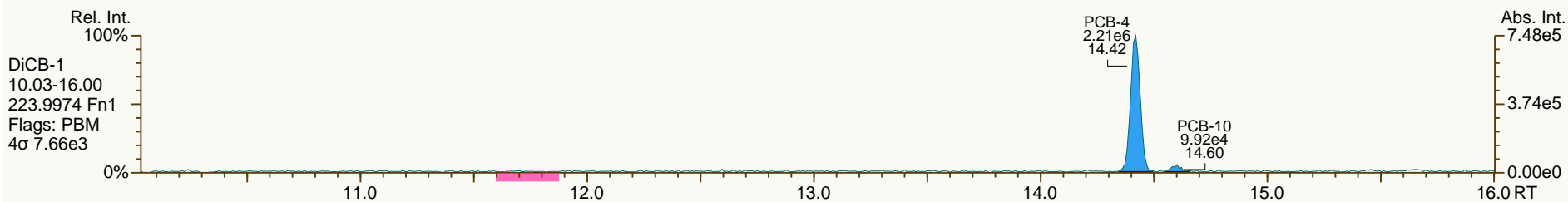
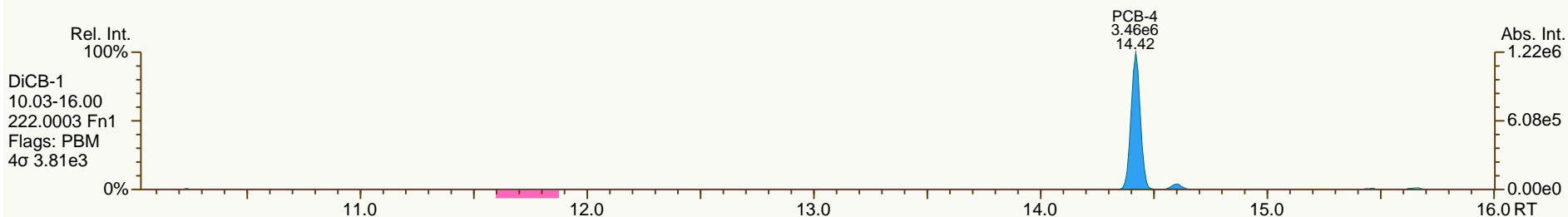
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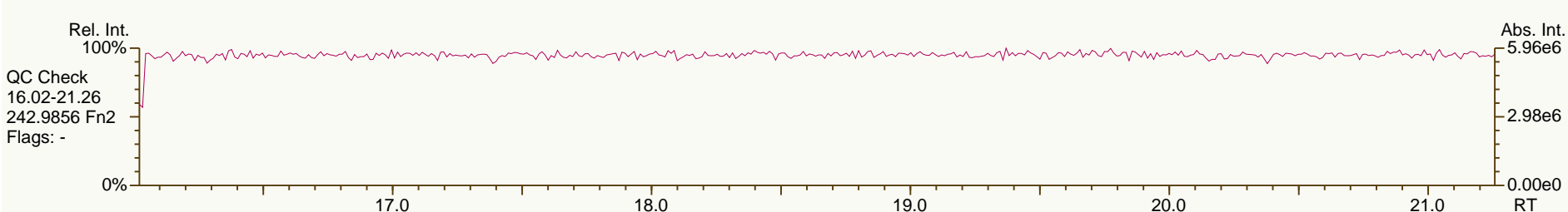
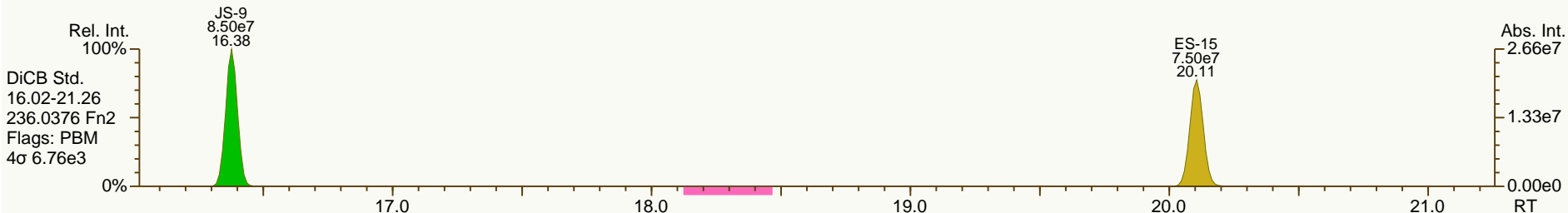
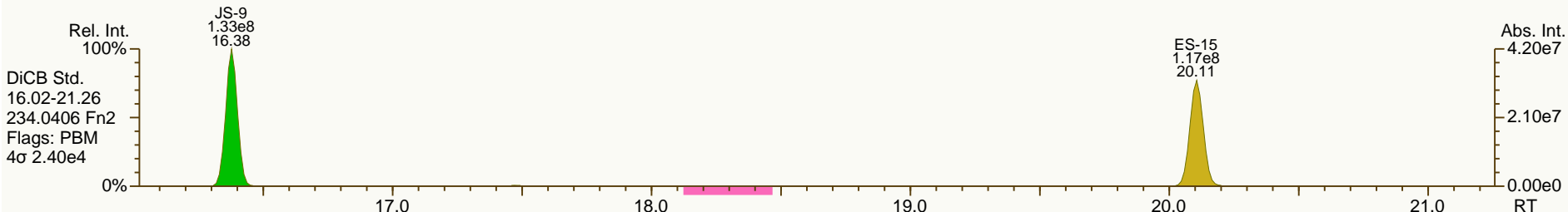
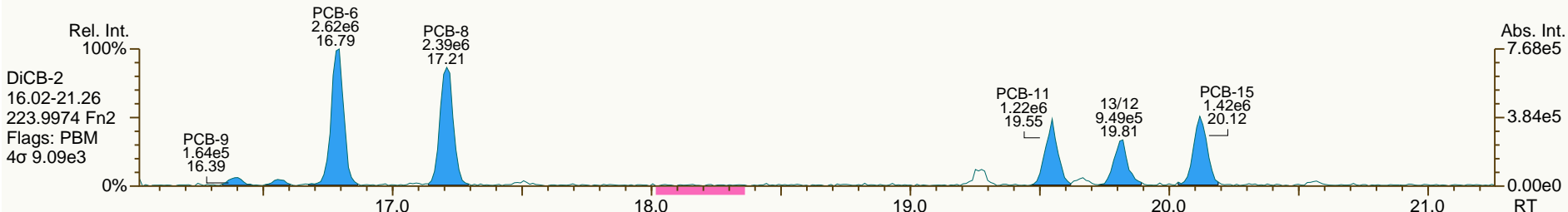
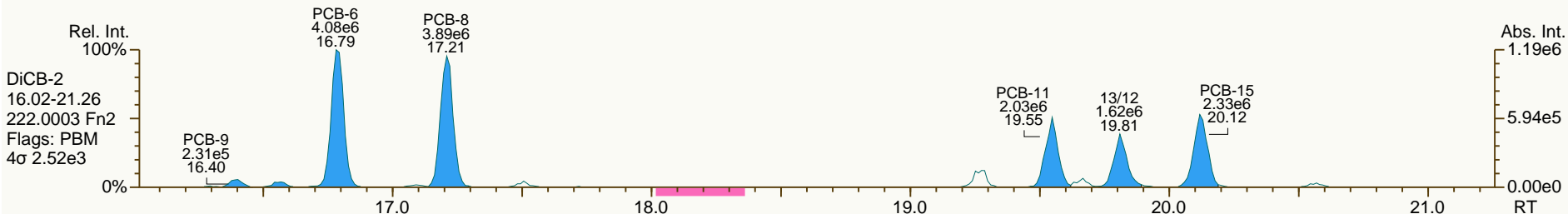
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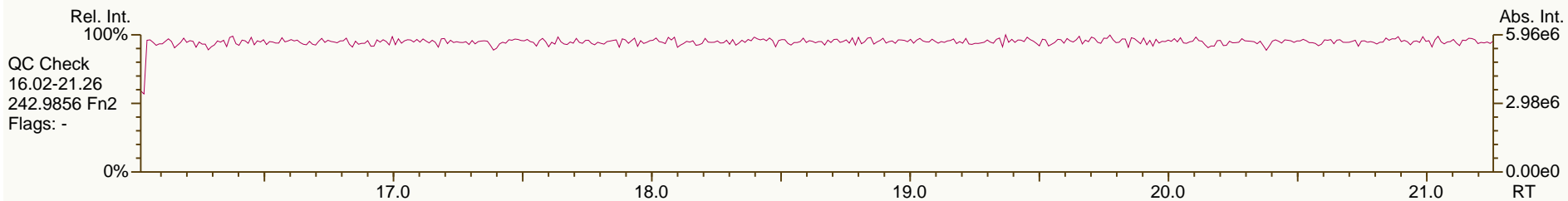
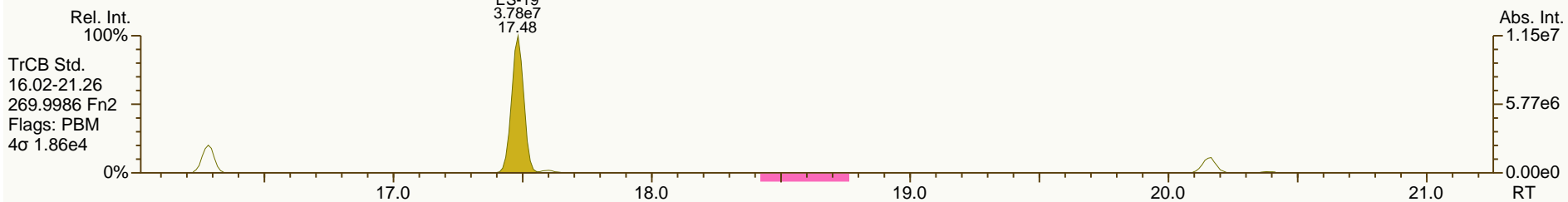
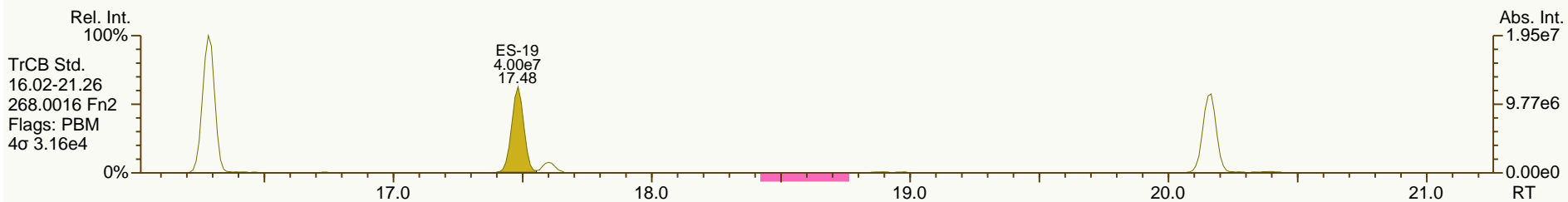
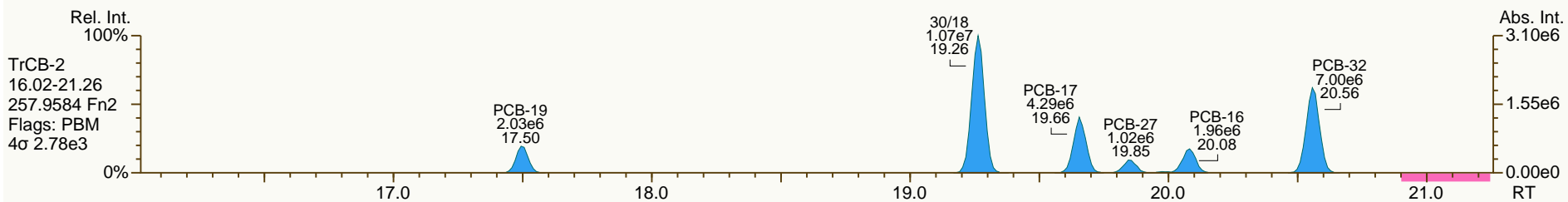
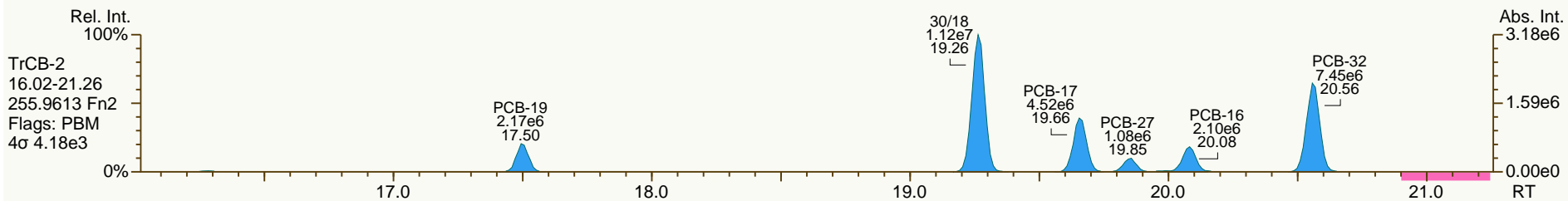




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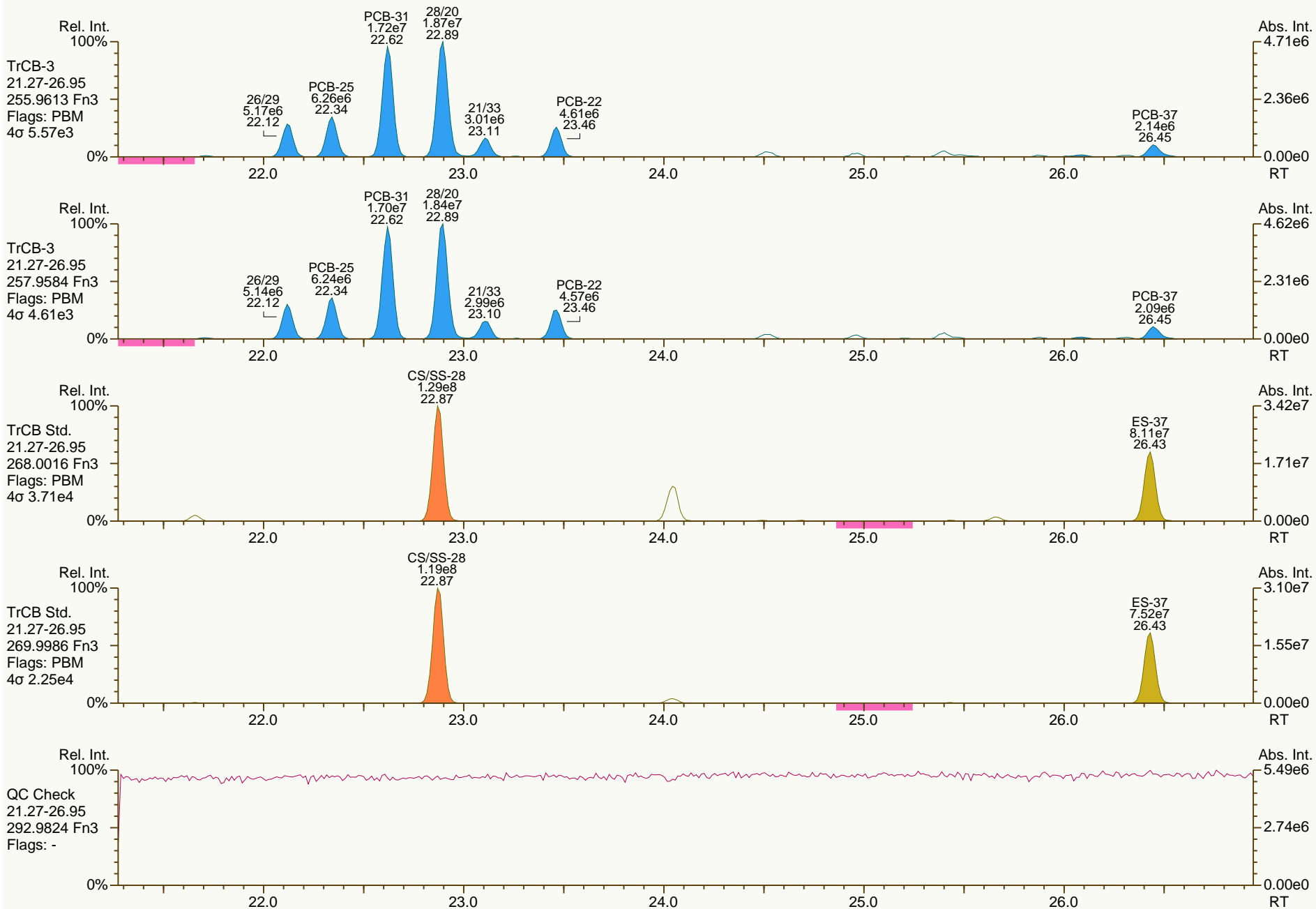
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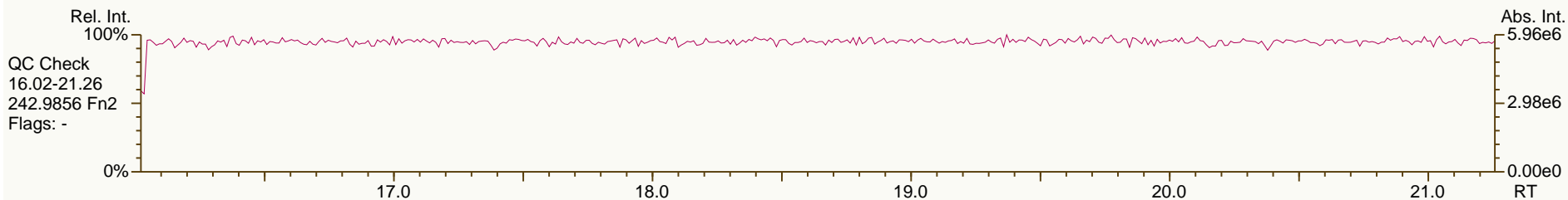
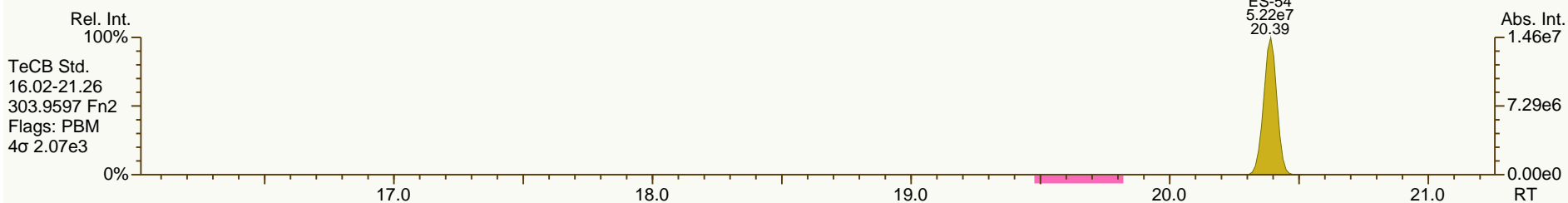
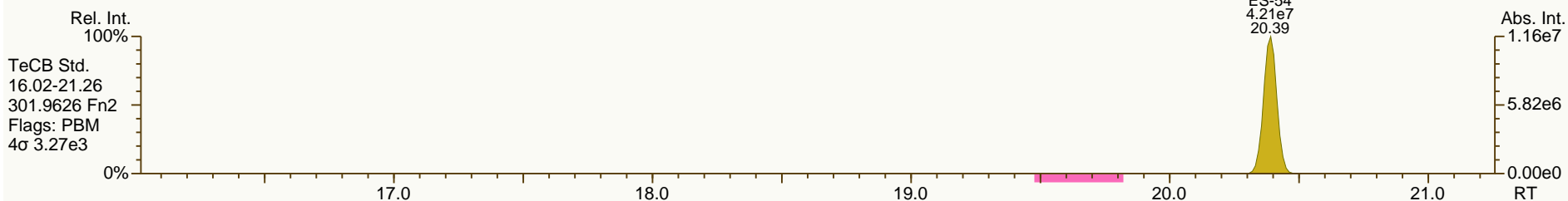
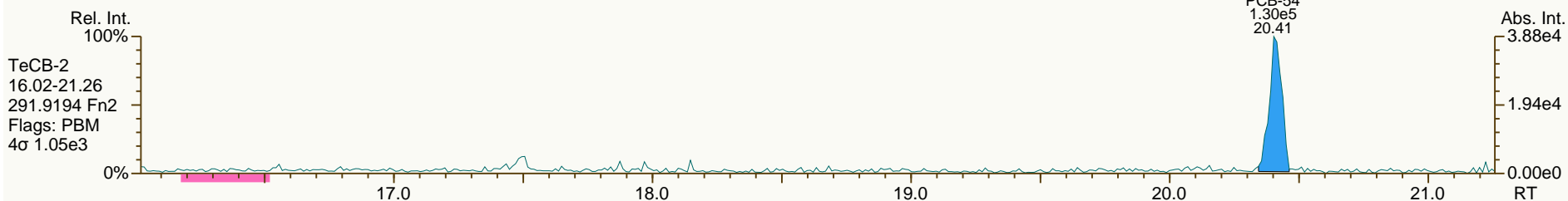
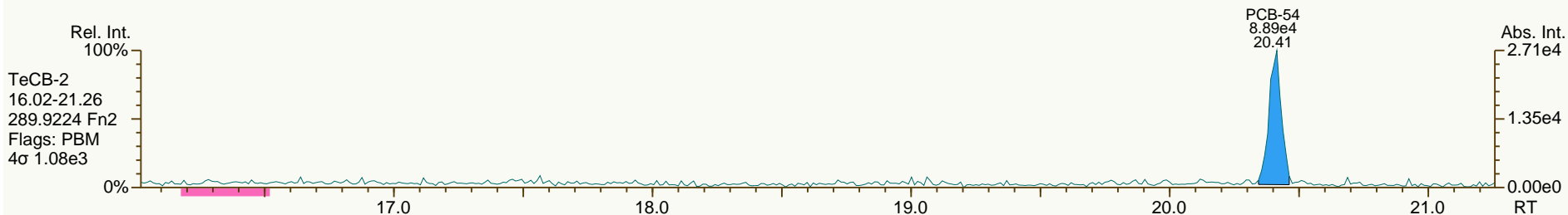
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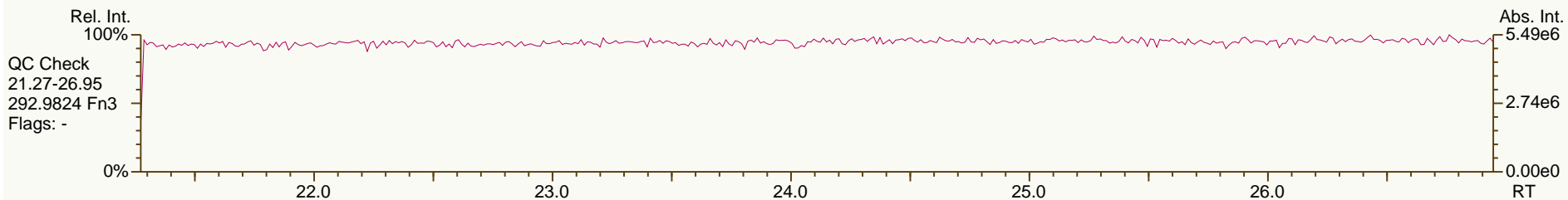
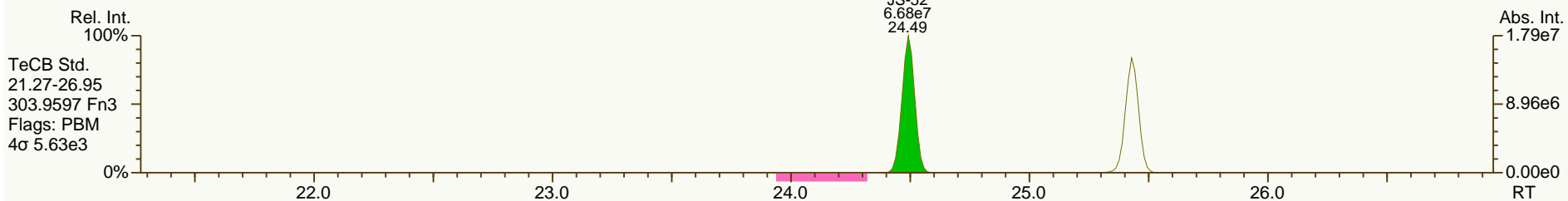
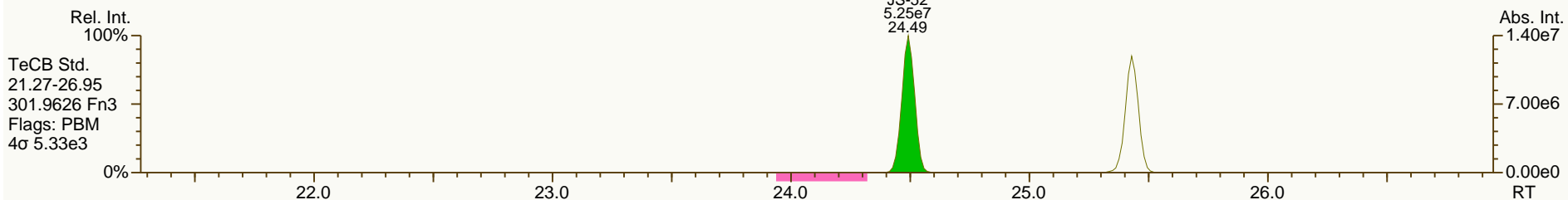
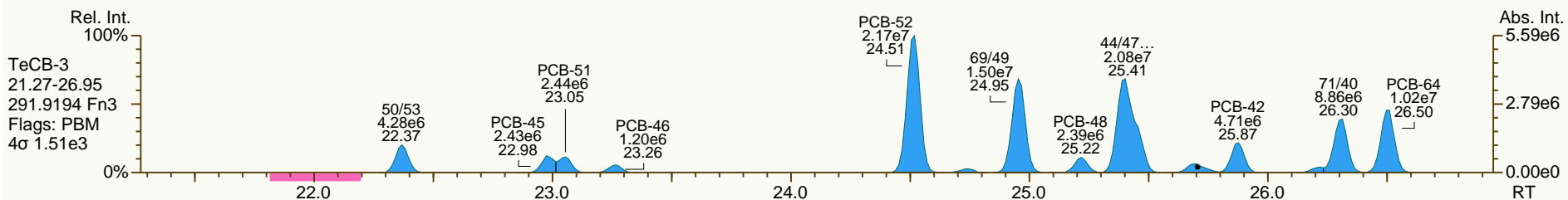
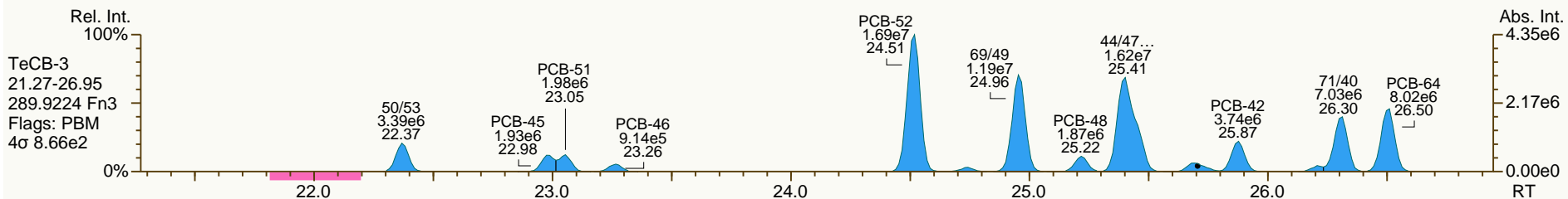
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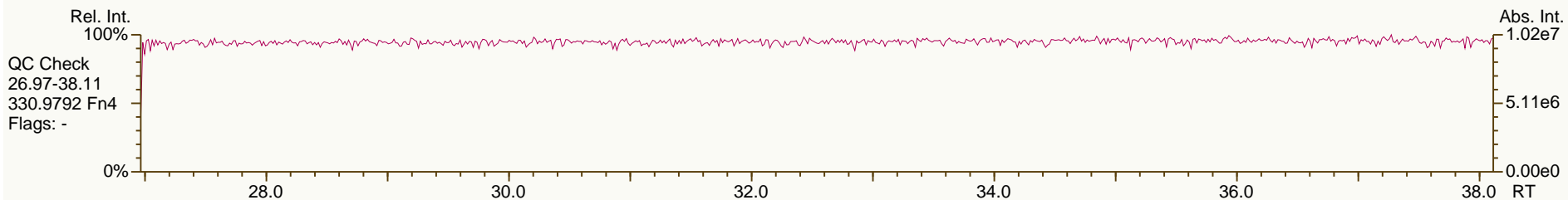
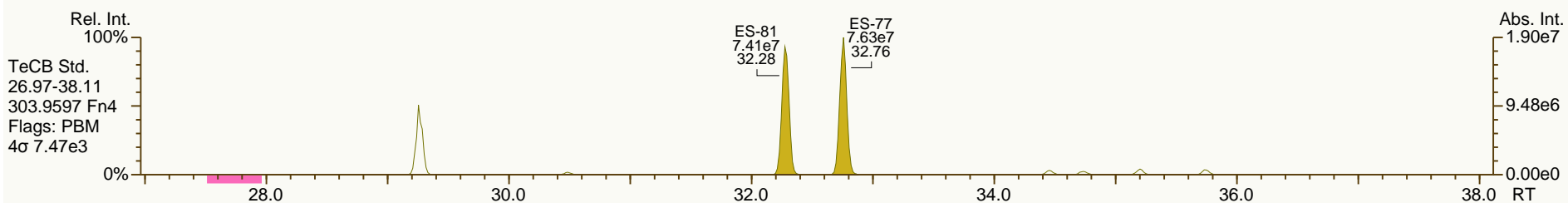
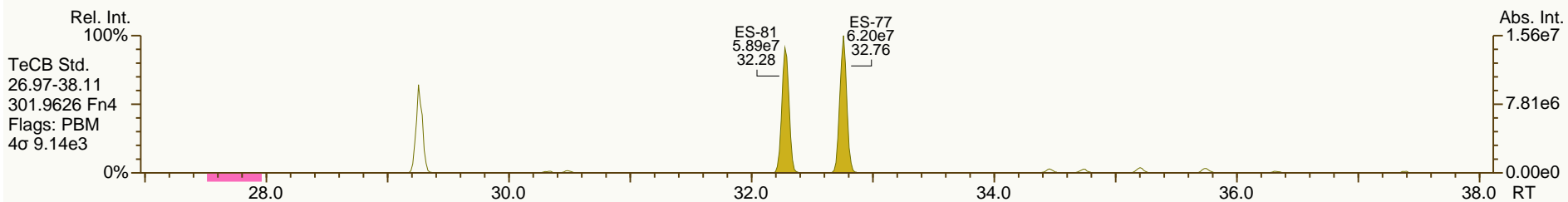
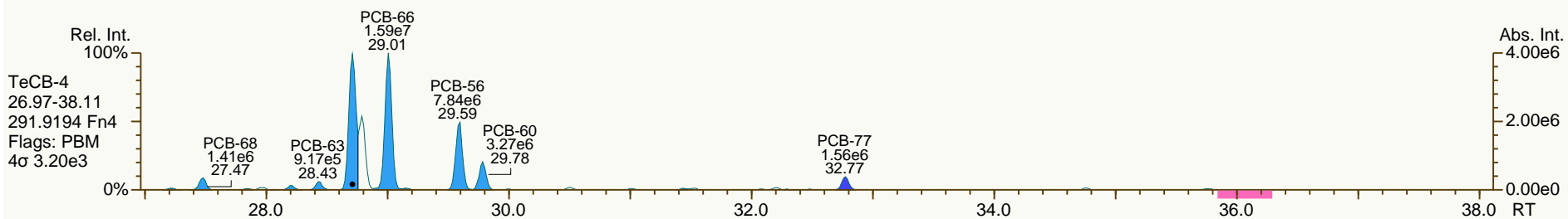
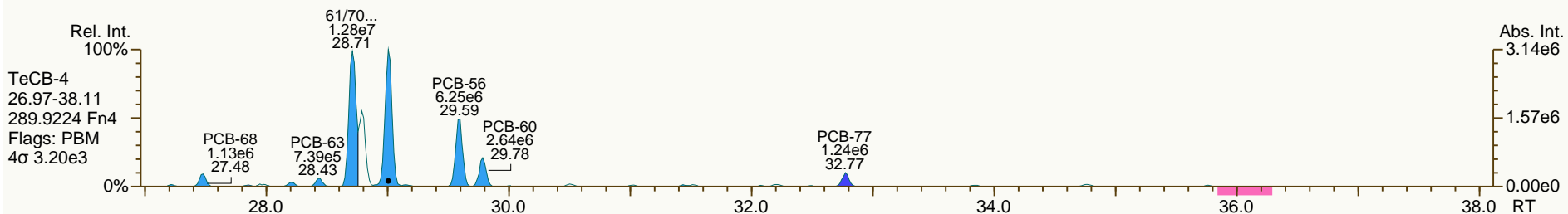
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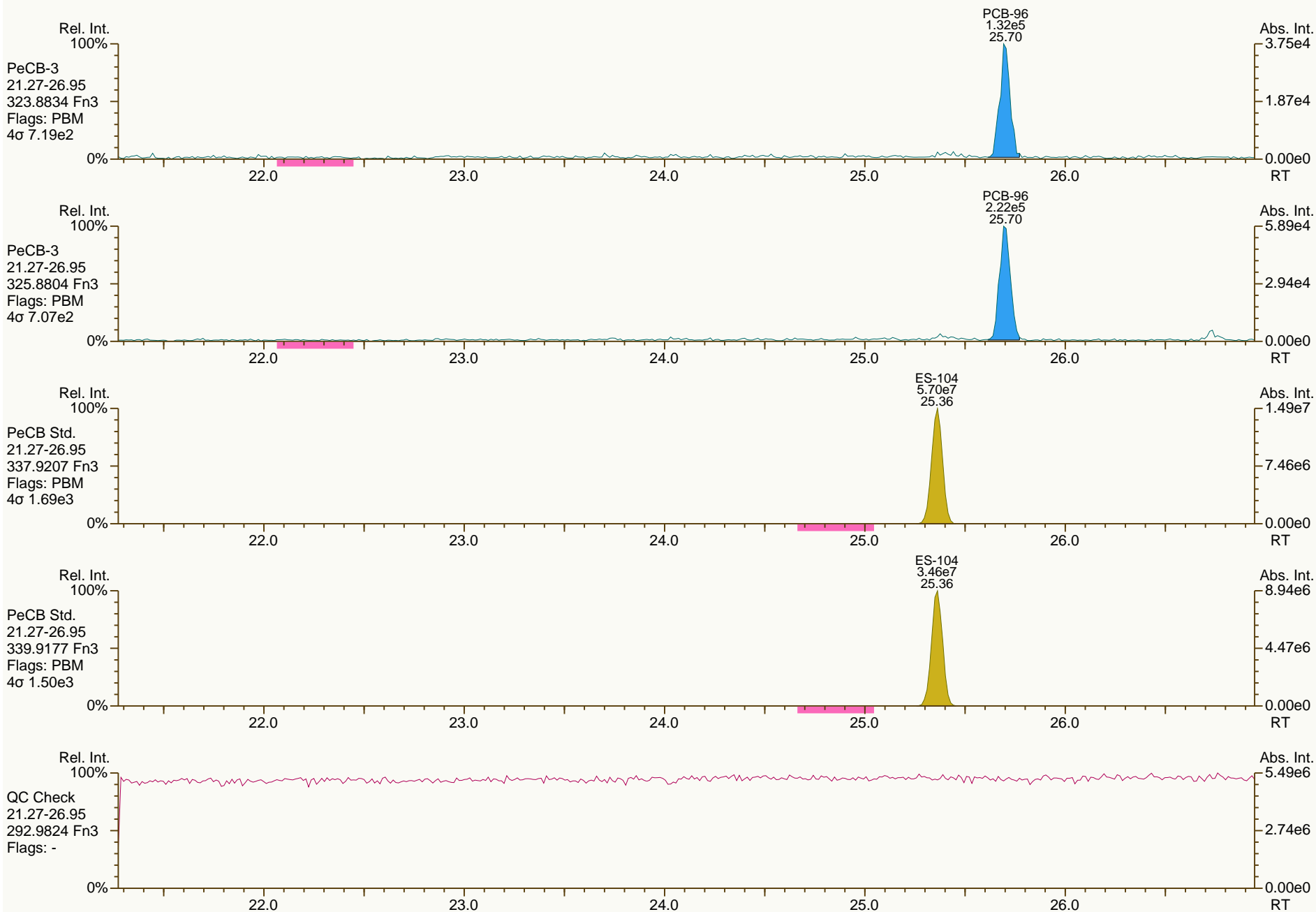
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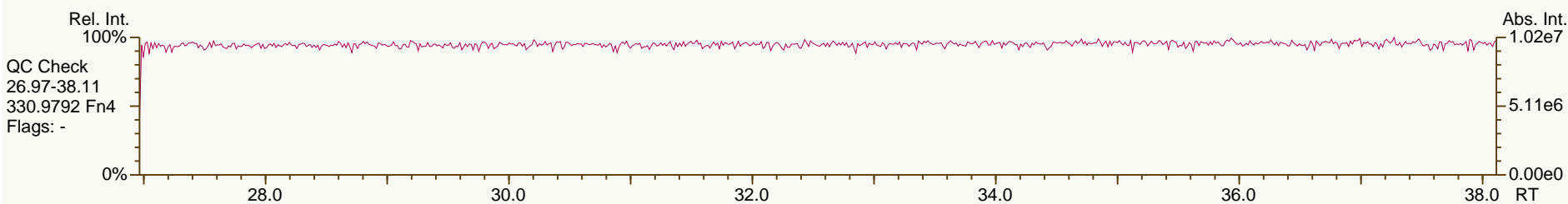
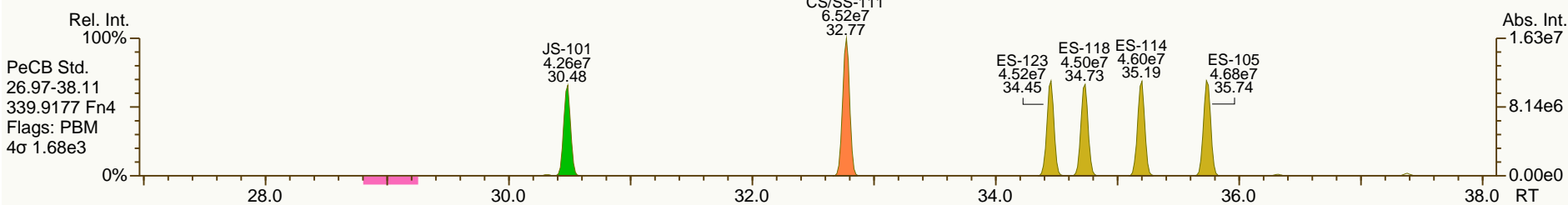
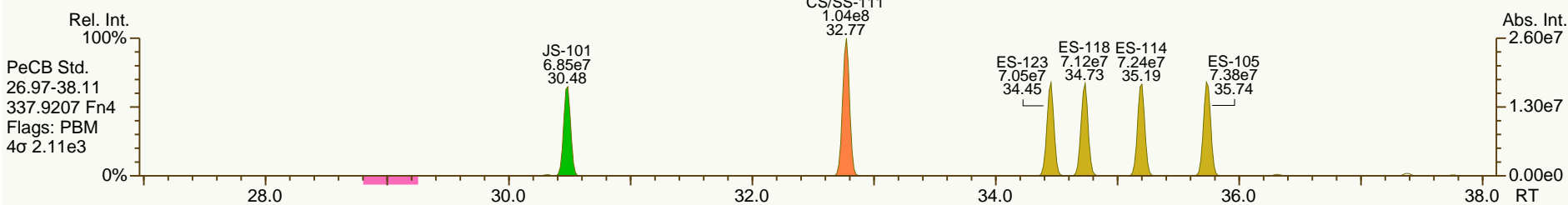
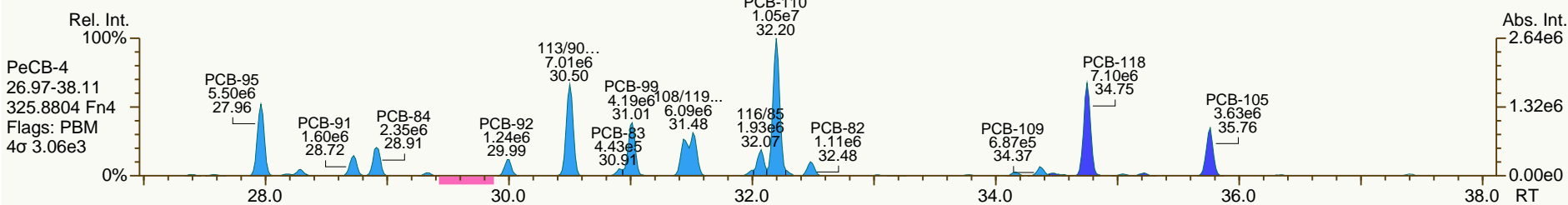
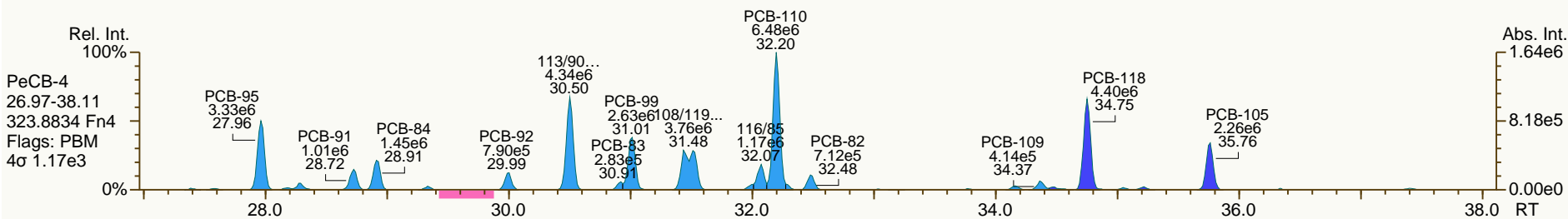
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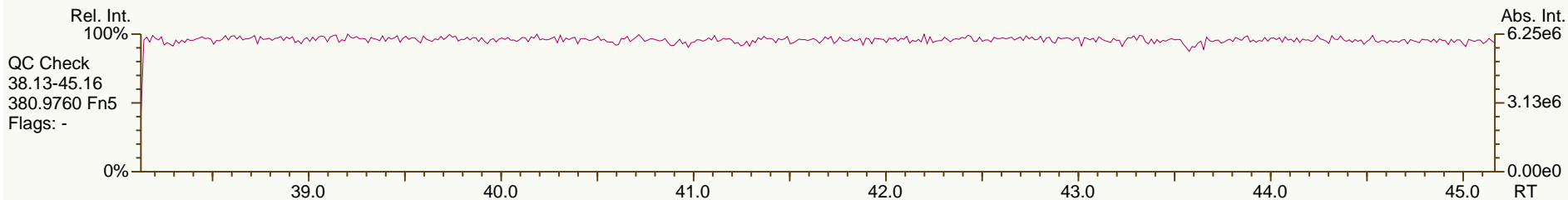
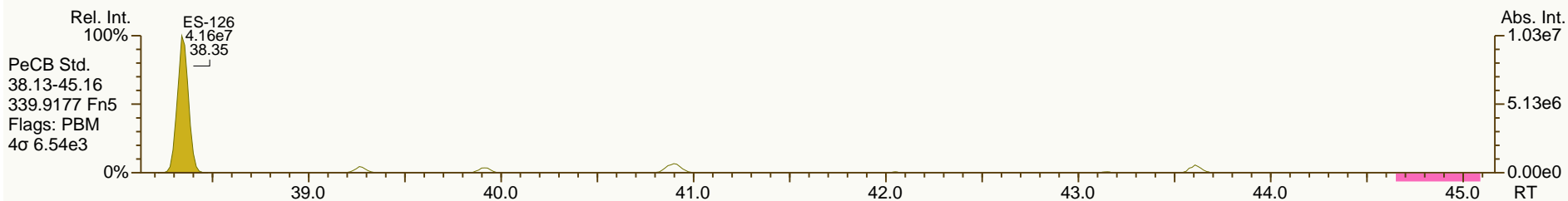
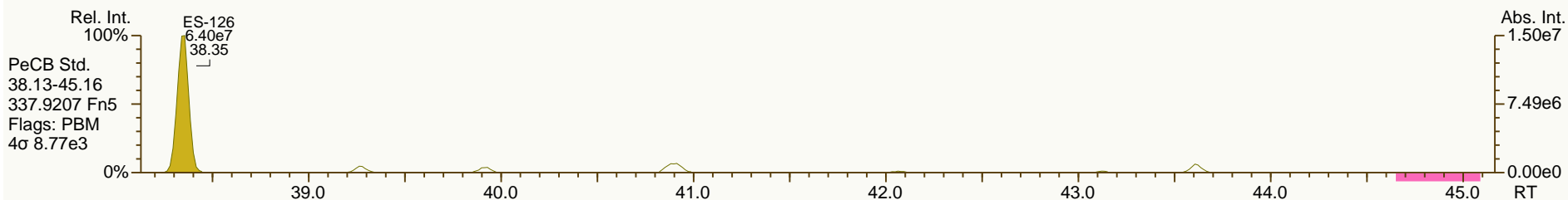
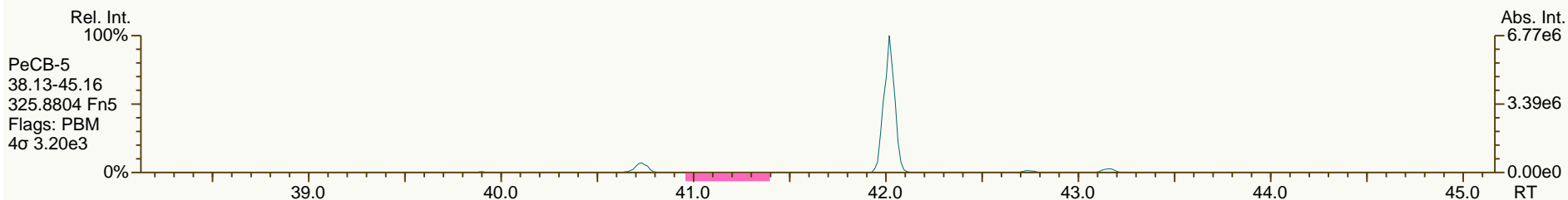
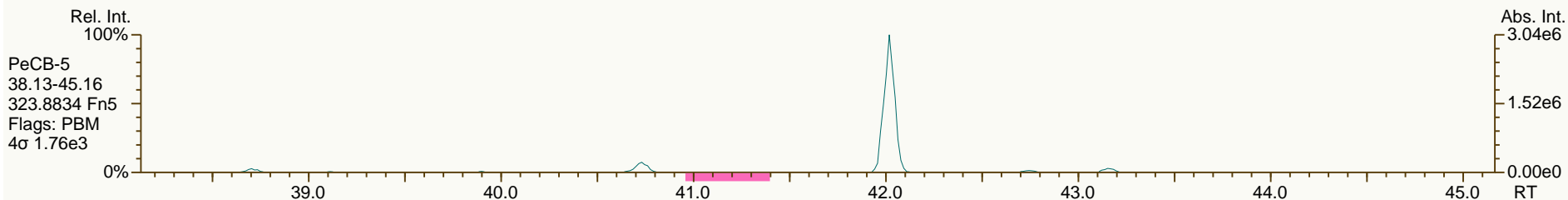
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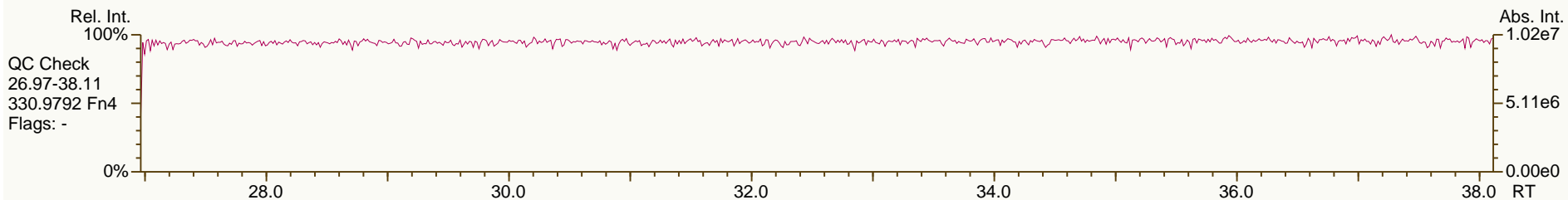
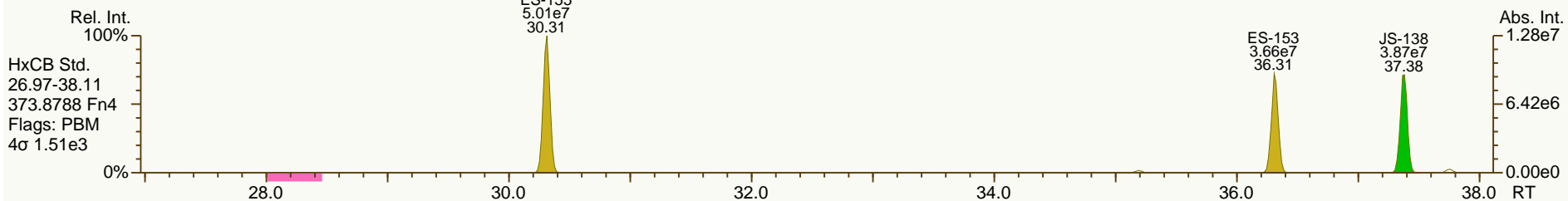
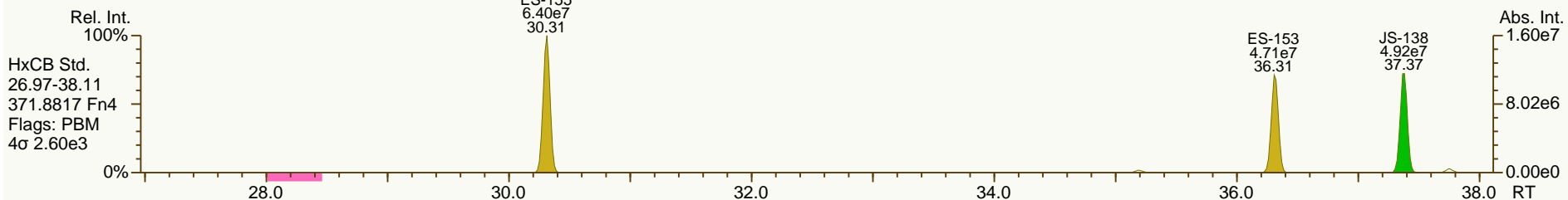
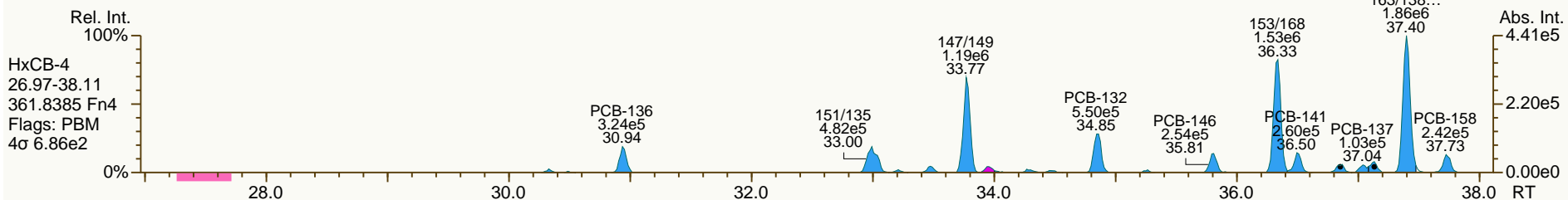
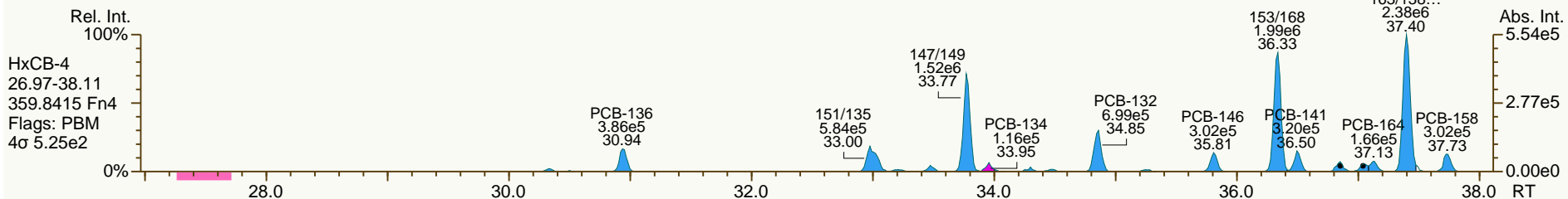




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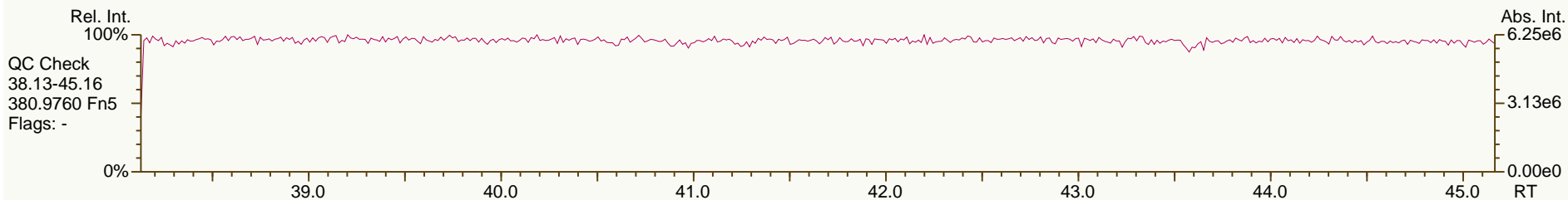
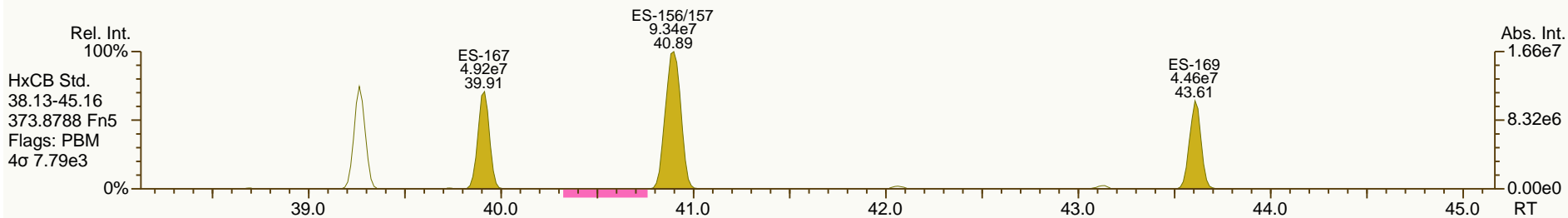
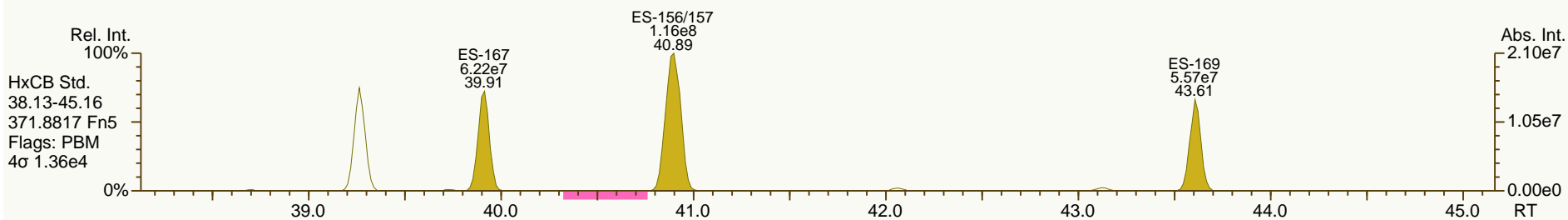
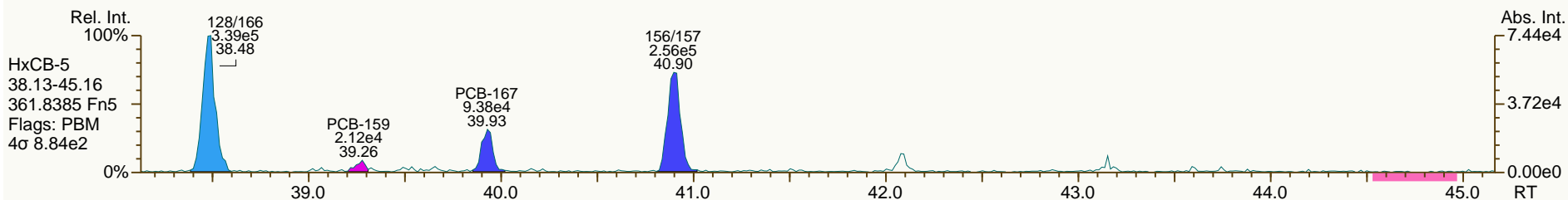
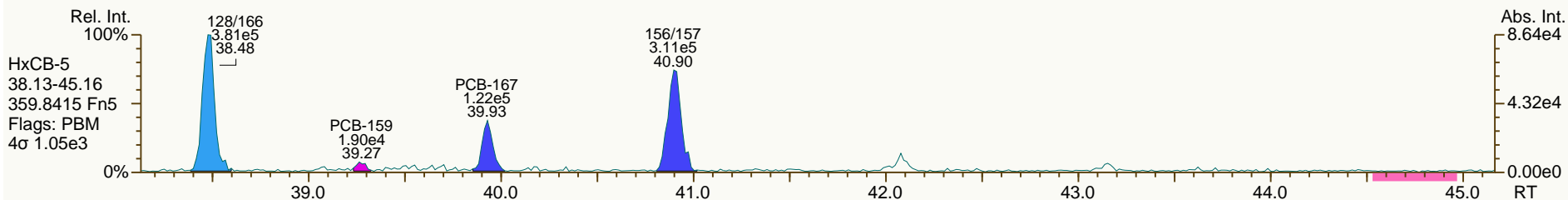
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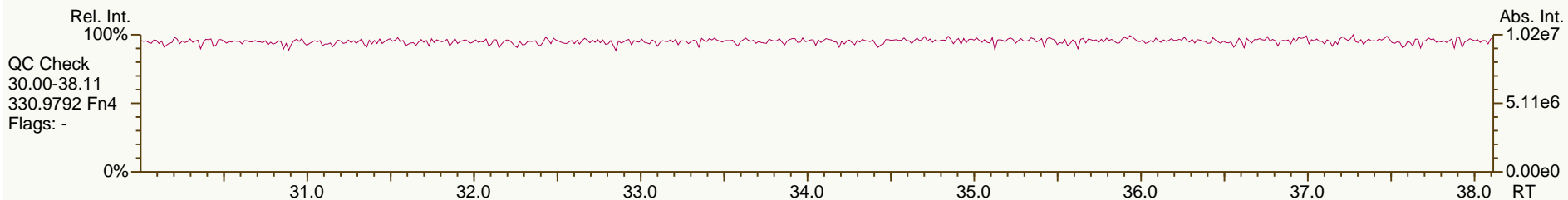
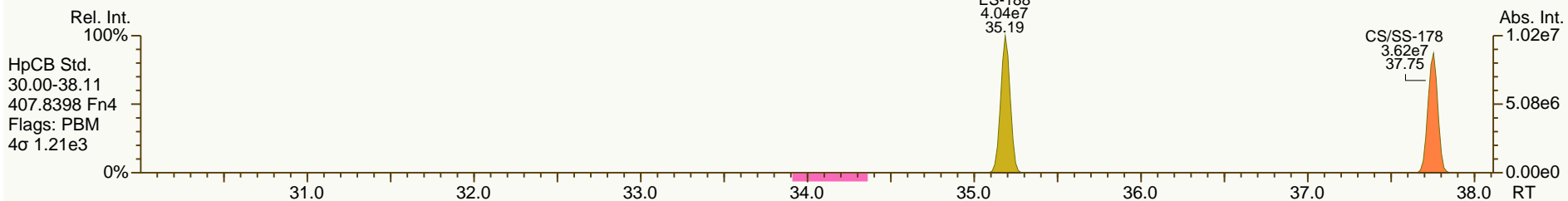
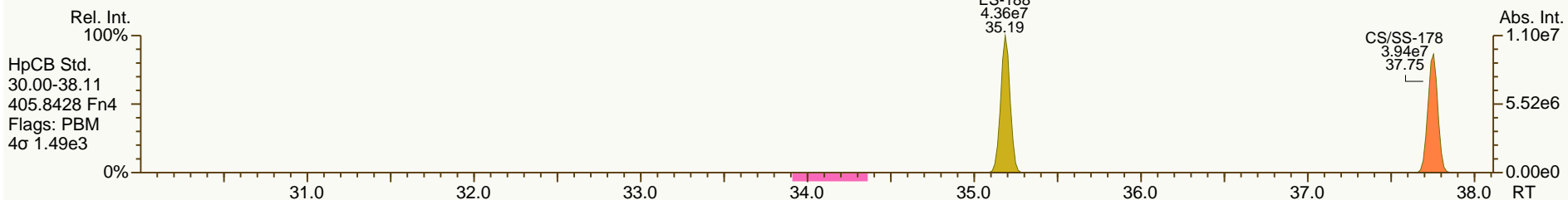
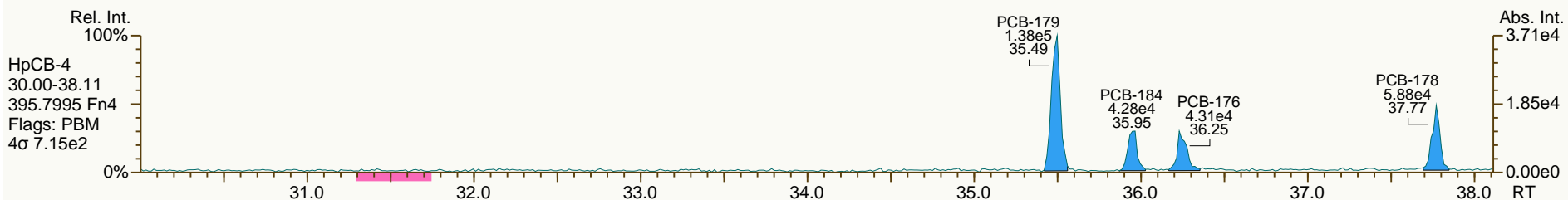
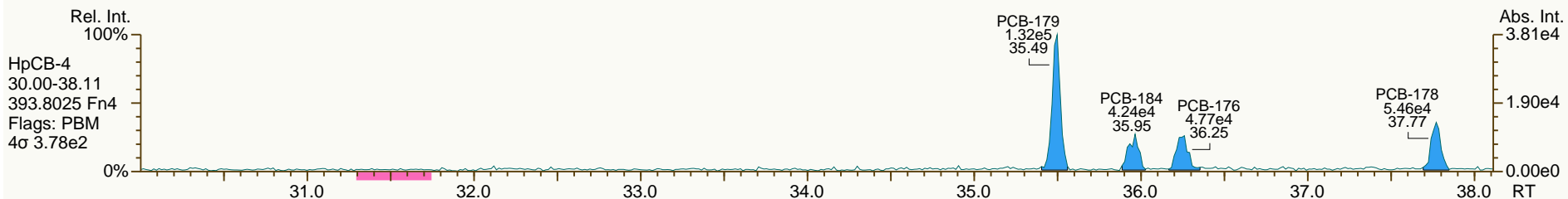
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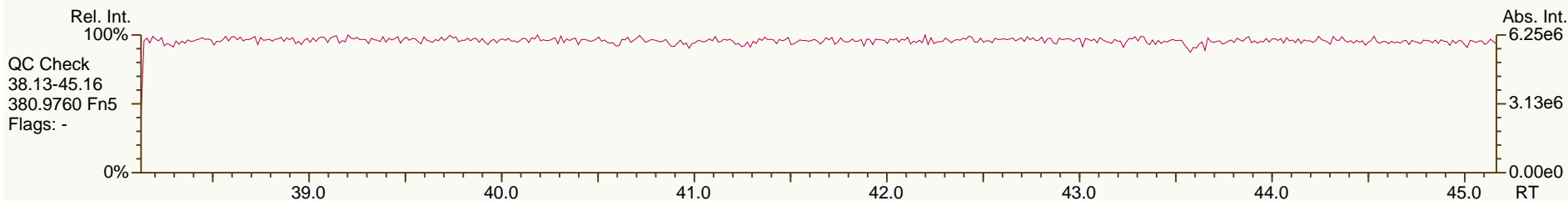
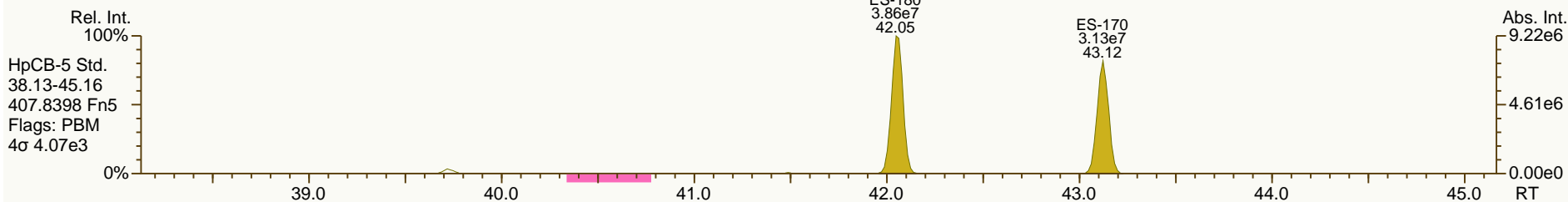
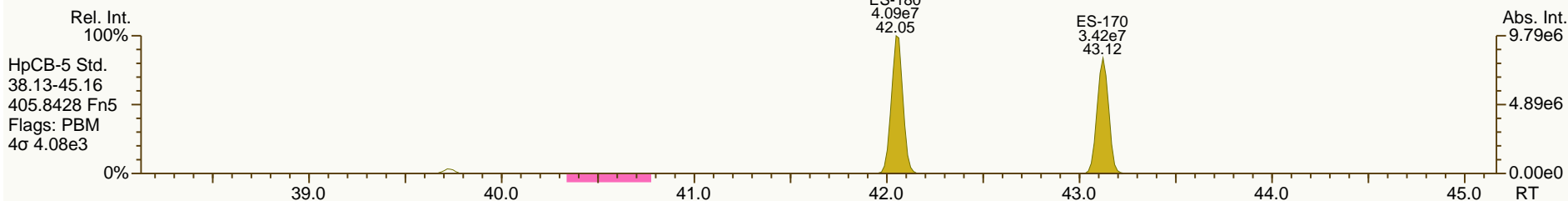
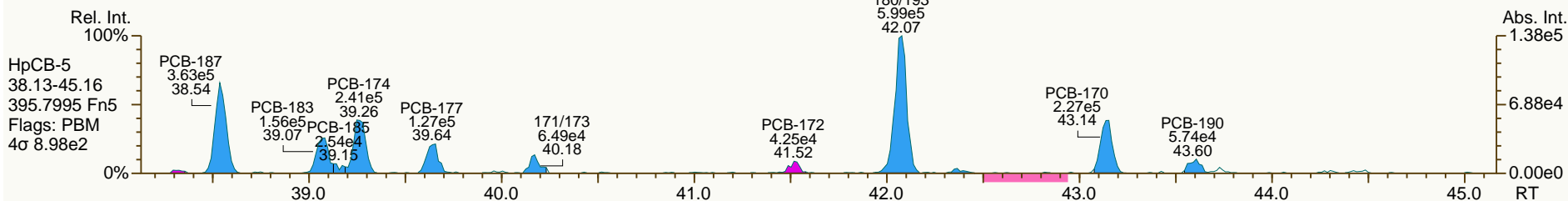
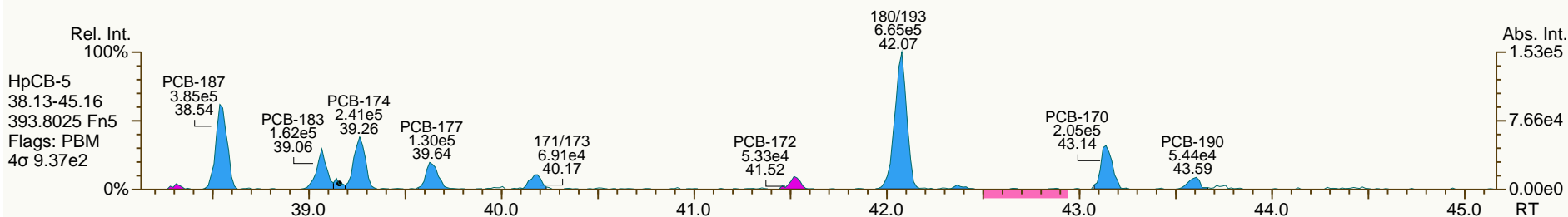
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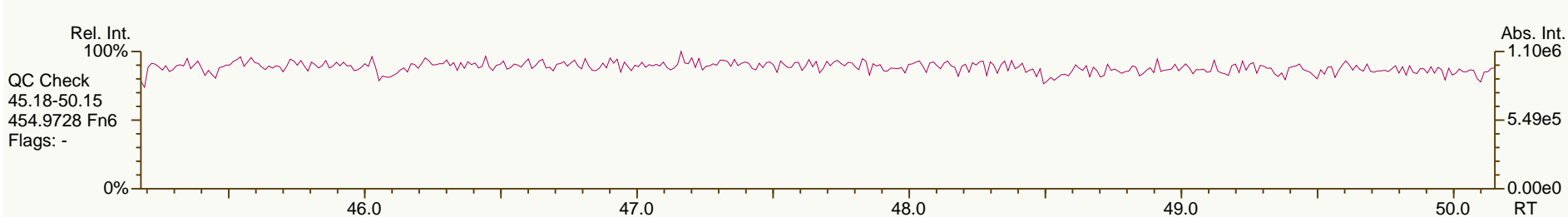
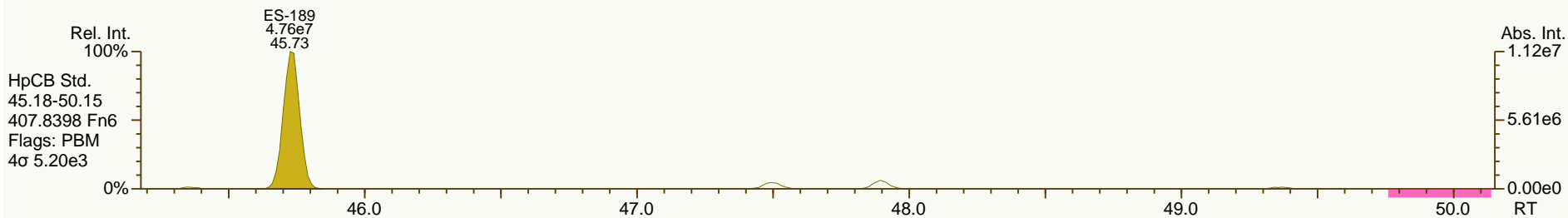
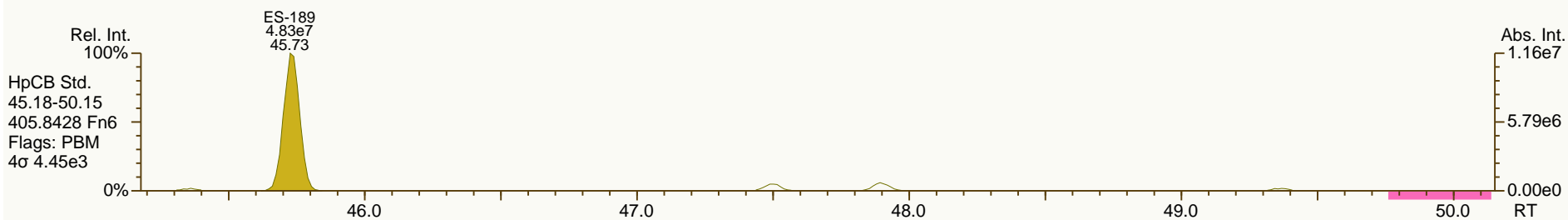
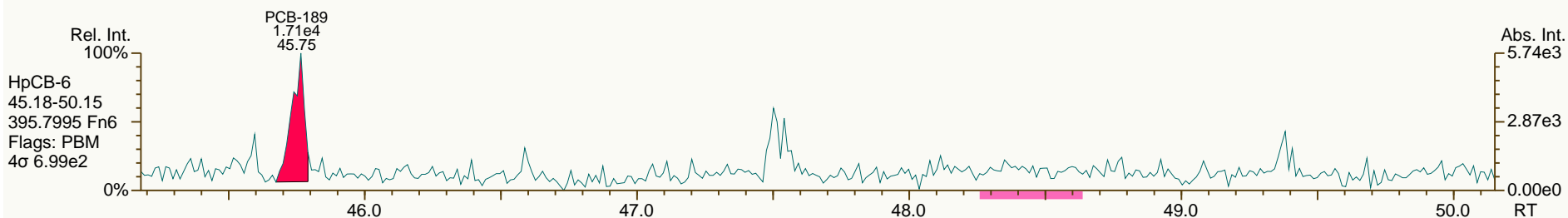
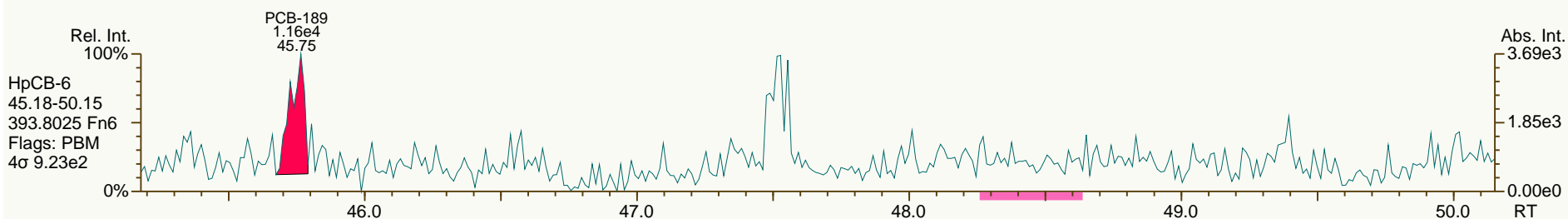
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Sample ID: PB095-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 84

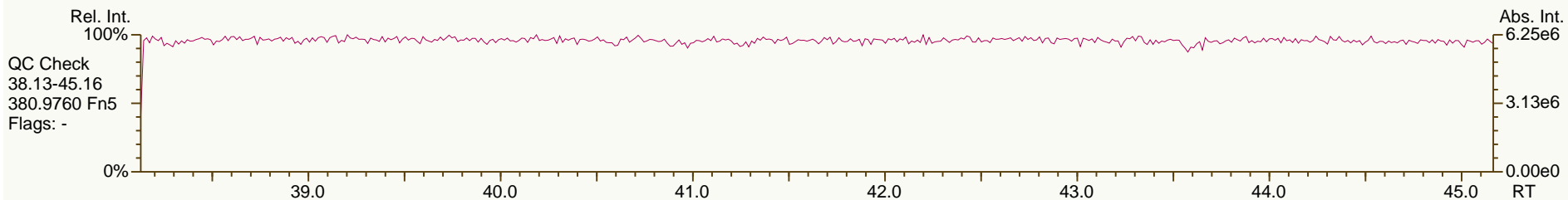
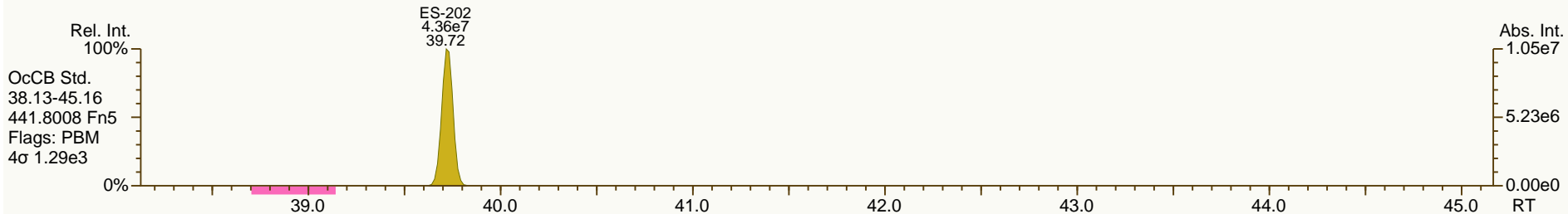
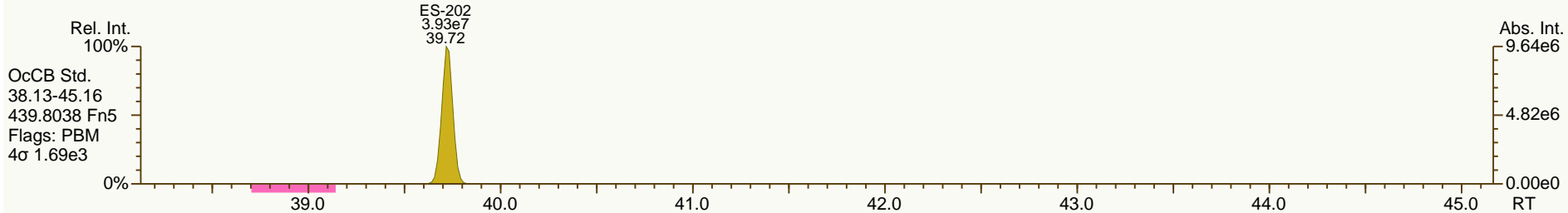
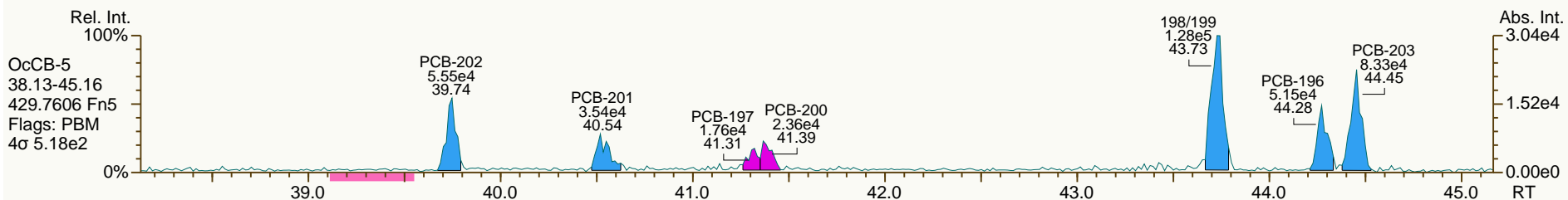
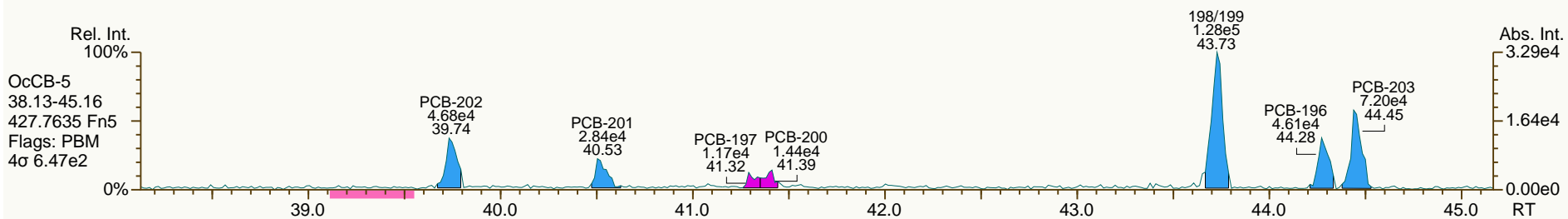
Acq: 29-Mar-2014 02:11:12  
User: LKB Datafile: 140328X17



SGS ID: A6521\_11903\_PCB\_006-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB095-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 84

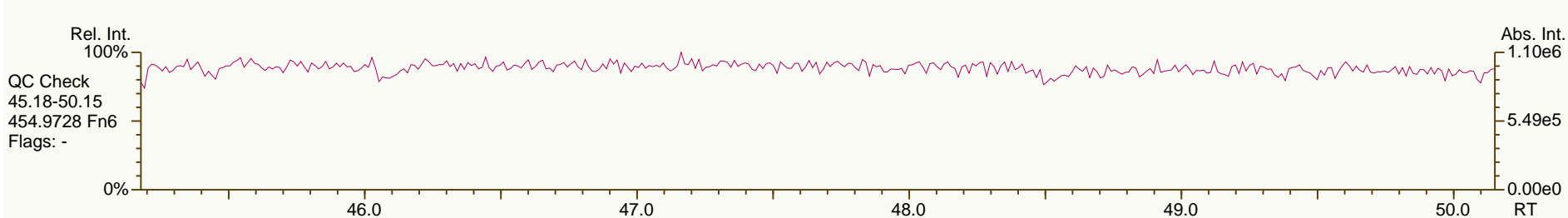
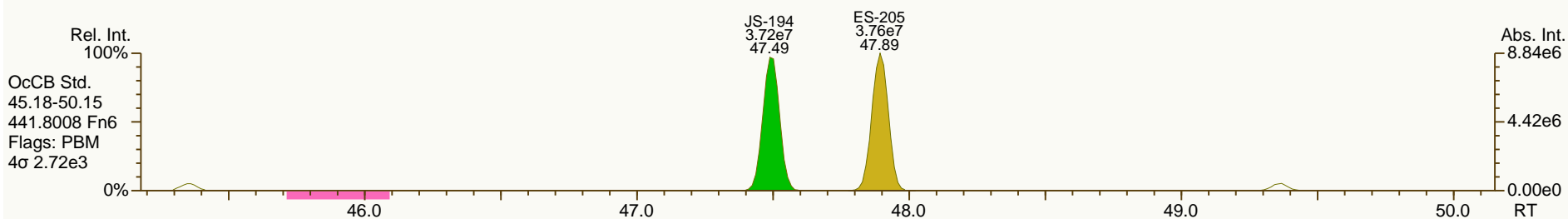
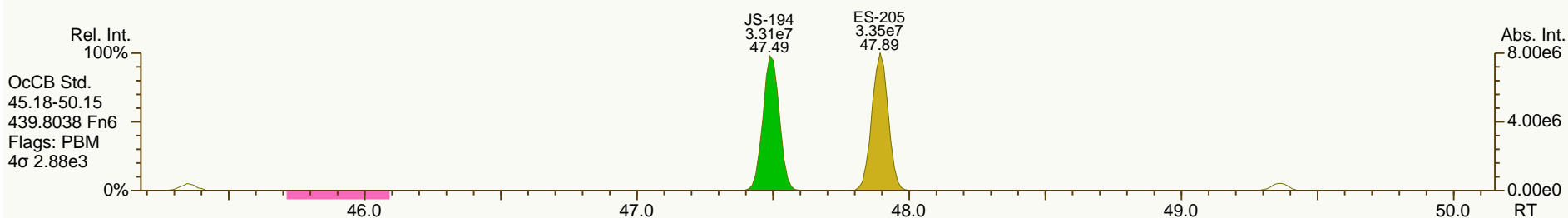
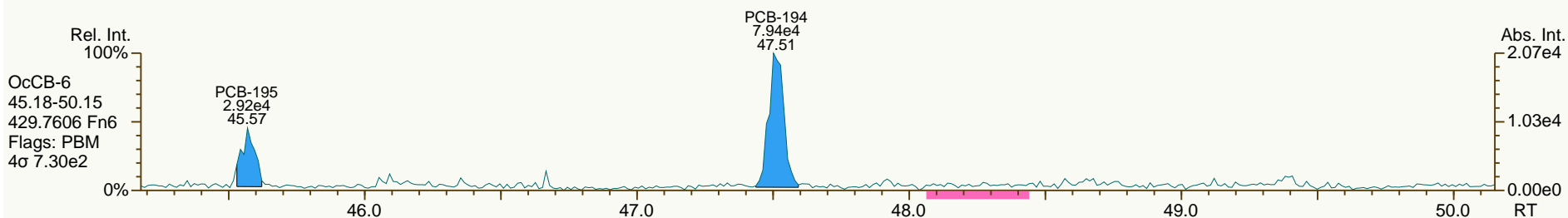
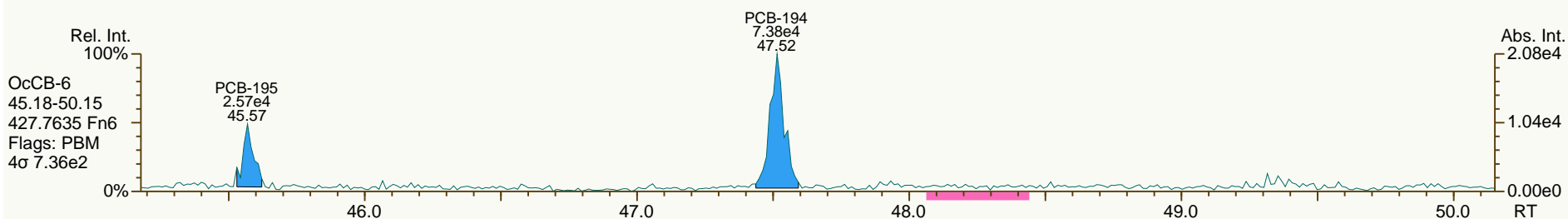
Acq: 29-Mar-2014 02:11:12  
 User: LKB Datafile: 140328X17



SGS ID: A6521\_11903\_PCB\_006-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB095-1SWMID-140318-N  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 84

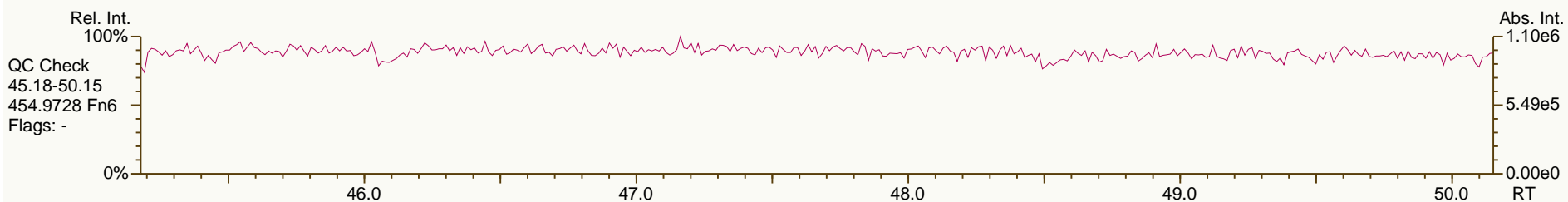
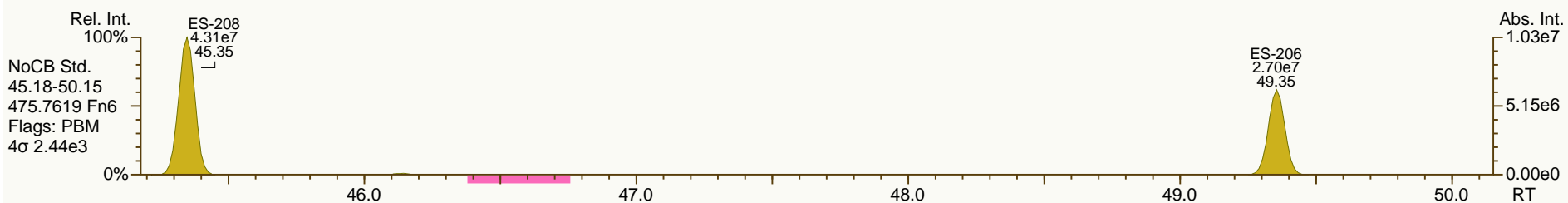
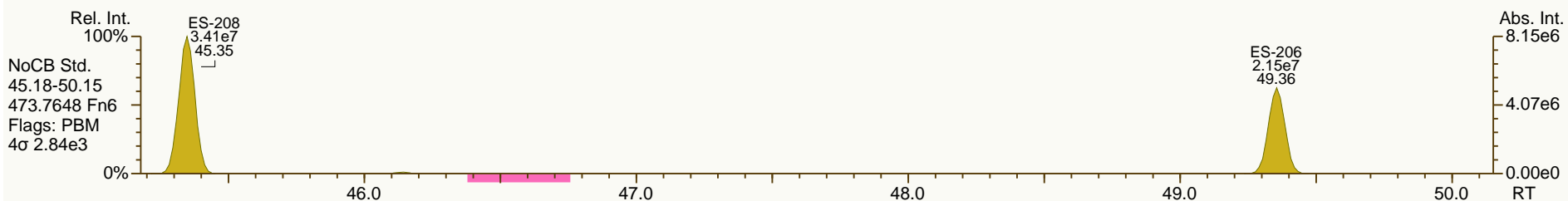
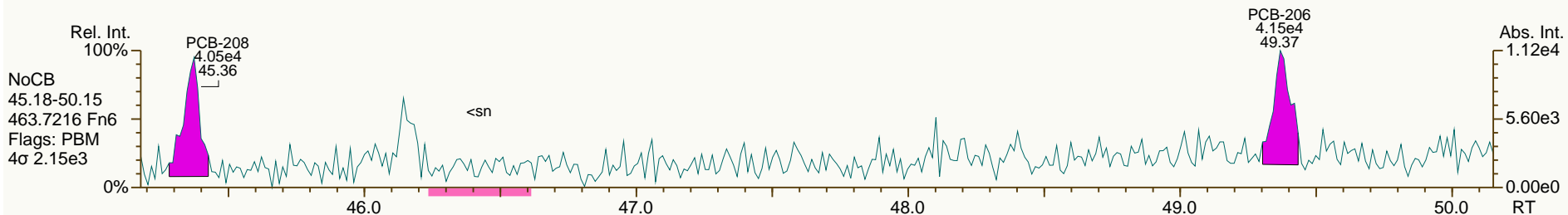
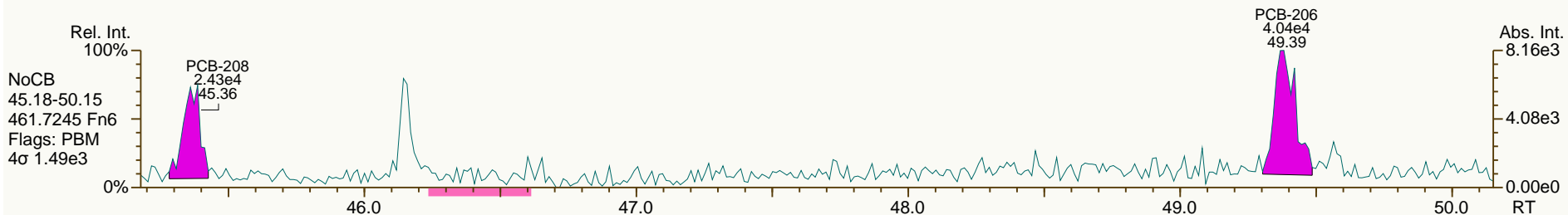
Acq: 29-Mar-2014 02:11:12  
User: LKB Datafile: 140328X17



SGS ID: A6521\_11903\_PCB\_006-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB095-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 84

Acq: 29-Mar-2014 02:11:12  
 User: LKB Datafile: 140328X17

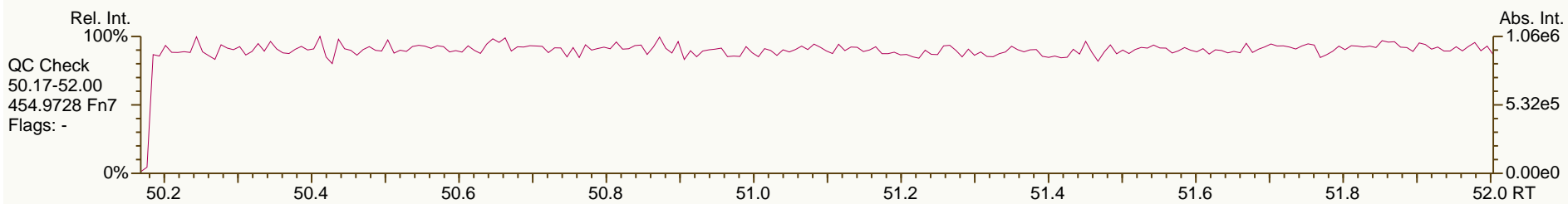
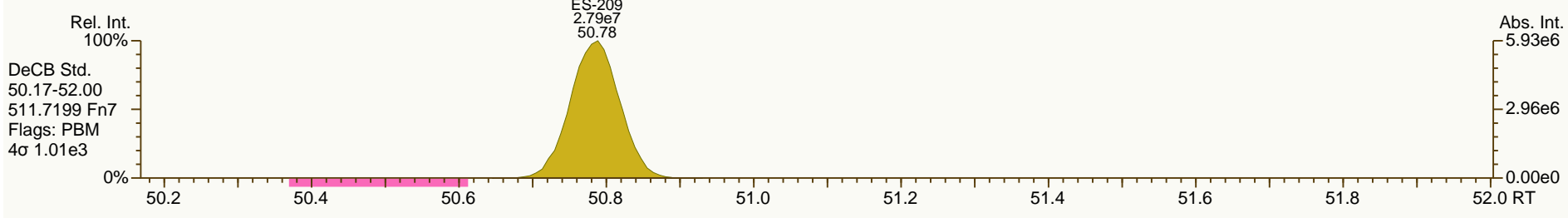
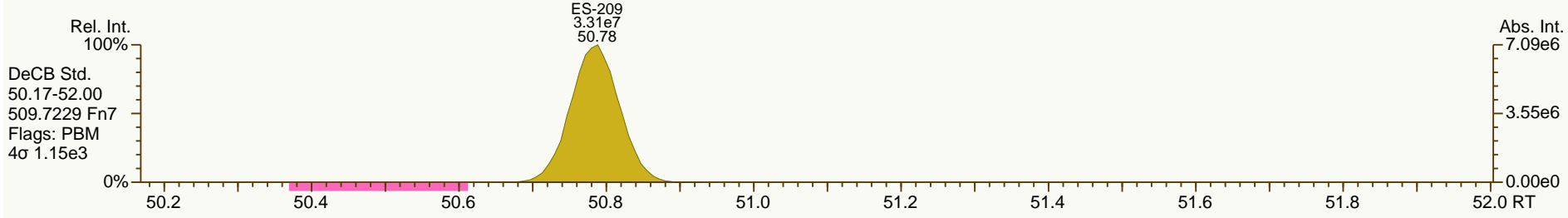
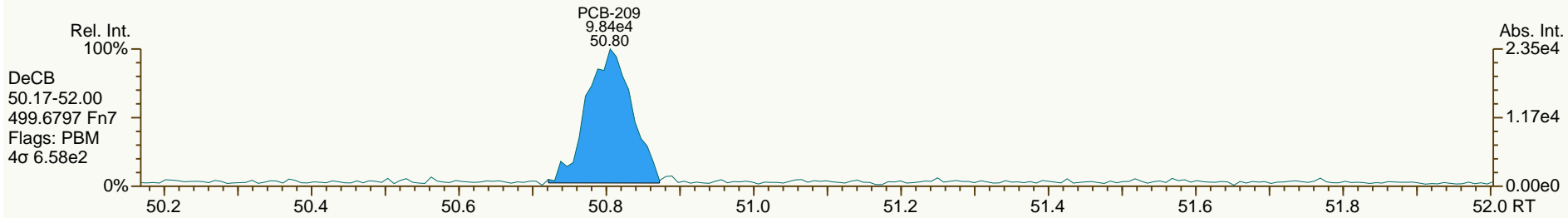
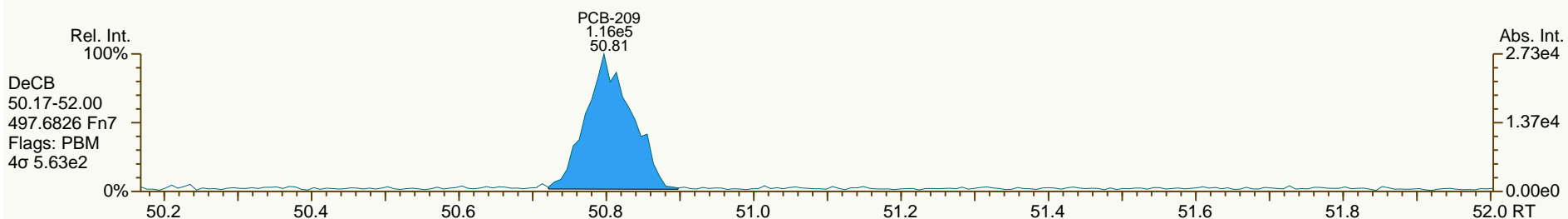




SGS ID: A6521\_11903\_PCB\_006-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB095-1SWMID-140318-N  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 84

Acq: 29-Mar-2014 02:11:12  
 User: LKB Datafile: 140328X17



## SGS Analytical Perspectives — Run Log

Project: A6521\_11903\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
7	140328X07	Tray1:03	CS3_140328_PCB_XB	1.00	SIL 13-79-3	LKB, DES	740-668	28-Mar-2014	17:00:58
8	140328X08	Tray1:76	OPR1_11903_PCB-RJ2	1.00	0_11903_OPR001	LKB, DES	662-053	28-Mar-2014	17:55:43
9	140328X09	Tray1:02	SBS_140328_PCB_XC	1.00	SIL 13-42-1	LKB, DES	100-145	28-Mar-2014	18:50:44
10	140328X10	Tray1:77	MB1_11903_PCB_TLX-RJ2	1.00	Method Blank	LKB, DES	680-324	28-Mar-2014	19:45:47
12	140328X12	Tray1:79	A6521_11903_PCB_001-RJ	1.19	PB083-1SWMID-140318-N	LKB, DES	761-512	28-Mar-2014	21:35:52
13	140328X13	Tray1:80	A6521_11903_PCB_002-RJ	1.18	PB083-1SWMID-140318-D	LKB, DES	203-283	28-Mar-2014	22:30:56
14	140328X14	Tray1:81	A6521_11903_PCB_003-RJ	0.93	PB087-1SWMID-140318-N	LKB, DES	039-448	28-Mar-2014	23:25:58
15	140328X15	Tray1:82	A6521_11903_PCB_004-RJ	0.96	PB091-1SWMID-140318-N	LKB, DES	863-237	29-Mar-2014	00:21:02
16	140328X16	Tray1:83	A6521_11903_PCB_005-RJ	1.22	PB093_A-1SWMID-140318-N	LKB, DES	596-561	29-Mar-2014	01:16:07
17	140328X17	Tray1:84	A6521_11903_PCB_006-RJ	1.22	PB095-1SWMID-140318-N	LKB, DES	161-330	29-Mar-2014	02:11:12

PCB QC Summary		SGS Environmental Services			Processed: 31-Mar-2014 07:25		
Lab ID:	CS3_140328_PCB_XB						
Acquired:	28-MAR-2014 17:00			ICAL: MM7_PCB_10292013_20DEC2013			
Datafile:	140328X07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.78	7.66E+07	0.80 Y	1.15	1.20	3.8%	
PCB-81 344'5'-TeCB	32.30	7.45E+07	0.80 Y	1.12	1.19	6.0%	
PCB-105 233'44'-PeCB	35.76	6.19E+07	0.62 Y	1.11	1.13	1.1%	
PCB-114 2344'5'-PeCB	35.22	6.65E+07	0.61 Y	1.20	1.21	0.2%	
PCB-118 23'44'5'-PeCB	34.75	6.38E+07	0.62 Y	1.19	1.19	0.4%	
PCB-123 23'44'5'-PeCB	34.47	6.63E+07	0.62 Y	1.21	1.22	0.9%	
PCB-126 33'44'5'-PeCB	38.37	5.91E+07	0.65 Y	1.11	1.21	8.9%	
PCB-156/157 ...-HxCB	40.91	1.04E+08	1.23 Y	1.10	1.11	0.8%	
PCB-167 23'44'55'-HxCB	39.93	5.82E+07	1.22 Y	1.16	1.17	0.8%	
PCB-169 33'44'55'-HxCB	43.62	5.35E+07	1.25 Y	1.12	1.15	1.9%	
PCB-189 233'44'55'-HpCB	45.75	5.42E+07	1.06 Y	1.07	1.09	1.9%	
PCB-209 DeCB	50.81	3.80E+07	1.18 Y	1.11	1.08	-3.4%	
ES PCB-1	11.87	2.09E+08	3.25 Y	1.19	1.09	-8.9%	
ES PCB-3	14.16	1.94E+08	3.26 Y	1.09	1.01	-7.2%	
ES PCB-4	14.41	1.09E+08	1.61 Y	0.52	0.57	8.7%	
ES PCB-15	20.11	2.07E+08	1.57 Y	1.04	1.08	3.3%	
ES PCB-19	17.49	1.01E+08	1.06 Y	0.51	0.53	3.8%	
ES PCB-37	26.43	1.51E+08	1.10 Y	1.66	1.51	-9.1%	
ES PCB-54	20.40	1.00E+08	0.79 Y	0.86	1.00	16.4%	
ES PCB-77	32.76	1.28E+08	0.80 Y	1.38	1.28	-7.3%	
ES PCB-81	32.28	1.26E+08	0.80 Y	1.37	1.26	-8.0%	
ES PCB-104	25.37	8.98E+07	1.58 Y	0.80	0.99	22.9%	
ES PCB-105	35.74	1.10E+08	1.59 Y	1.20	1.21	0.6%	
ES PCB-114	35.20	1.10E+08	1.58 Y	1.22	1.21	-0.5%	
ES PCB-118	34.73	1.07E+08	1.56 Y	1.16	1.17	1.4%	
ES PCB-123	34.45	1.09E+08	1.59 Y	1.19	1.19	0.6%	
ES PCB-126	38.35	9.80E+07	1.54 Y	1.03	1.08	4.8%	
ES PCB-153	36.32	7.78E+07	1.26 Y	1.11	1.13	1.3%	
ES PCB-155	30.32	1.09E+08	1.24 Y	1.59	1.58	-0.4%	
ES PCB-156/157	40.89	1.89E+08	1.27 Y	1.60	1.37	-14.4%	
ES PCB-167	39.91	9.94E+07	1.26 Y	1.67	1.44	-13.6%	
ES PCB-169	43.61	9.33E+07	1.26 Y	1.56	1.35	-13.0%	
ES PCB-170	43.12	6.28E+07	1.07 Y	0.95	1.04	10.0%	
ES PCB-180	42.05	7.34E+07	1.07 Y	1.14	1.22	7.0%	
ES PCB-188	35.19	7.87E+07	1.07 Y	0.94	1.14	21.6%	
ES PCB-189	45.73	9.91E+07	1.03 Y	1.58	1.64	3.8%	
ES PCB-202	39.72	7.62E+07	0.92 Y	0.97	1.11	14.0%	
ES PCB-205	47.89	7.59E+07	0.89 Y	1.24	1.26	1.2%	
ES PCB-206	49.35	5.41E+07	0.80 Y	0.83	0.90	8.3%	
ES PCB-208	45.35	7.81E+07	0.80 Y	1.17	1.30	10.3%	
ES PCB-209	50.78	7.06E+07	1.18 Y	1.11	1.17	5.6%	

PCB QC Summary		SGS Environmental Services			Processed: 31-Mar-2014 07:25		
Lab ID:	CS3_140328_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013					
Acquired:	28-MAR-2014 17:00						
Datafile:	140328X07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.88	1.65E+08	1.09 Y	1.11	1.10	-1.4%	
SS PCB-111	32.77	1.11E+08	1.56 Y	1.03	1.02	-0.4%	
SS PCB-178	37.75	4.80E+07	1.07 Y	0.62	0.61	-1.6%	
CS PCB-28	22.88	1.65E+08	1.09 Y	1.85	1.65	-10.4%	
CS PCB-111	32.77	1.11E+08	1.56 Y	1.22	1.22	0.2%	
CS PCB-178	37.75	4.80E+07	1.07 Y	0.58	0.70	19.7%	
JS PCB-9	16.39	1.92E+08	1.56 Y		-	-	
JS PCB-52	24.50	9.99E+07	0.78 Y		-	-	
JS PCB-101	30.48	9.09E+07	1.59 Y		-	-	
JS PCB-138	37.38	6.89E+07	1.27 Y		-	-	
JS PCB-194	47.49	6.03E+07	0.89 Y		-	-	
PCB-1 2-MoCB	11.89	1.13E+08	3.21 Y	0.95	1.08	13.4%	
PCB-3 4-MoCB	14.17	1.11E+08	3.23 Y	1.01	1.15	13.6%	
PCB-4 22'-DiCB	14.43	6.43E+07	1.59 Y	1.23	1.18	-4.6%	
PCB-15 44'-DiCB	20.13	1.14E+08	1.63 Y	1.02	1.10	7.9%	
PCB-19 22'6'-TrCB	17.51	5.69E+07	1.05 Y	1.15	1.13	-1.7%	
PCB-37 344'-TrCB	26.45	9.31E+07	1.01 Y	1.08	1.23	14.4%	
PCB-54 22'66'-TeCB	20.42	6.47E+07	0.80 Y	1.35	1.29	-4.4%	
PCB-104 22'466'-PeCB	25.39	6.10E+07	0.63 Y	1.43	1.36	-5.2%	
PCB-155 22'44'66'-HxCB	30.34	6.76E+07	1.25 Y	1.26	1.24	-1.7%	
PCB-188 22'34'566'-HpCB	35.21	4.59E+07	1.06 Y	1.27	1.17	-8.0%	
PCB-202 22'33'55'66'-OcCB	39.75	3.84E+07	0.91 Y	1.05	1.01	-4.3%	
PCB-205 233'44'55'6'-OcCB	47.91	3.93E+07	0.91 Y	1.06	1.03	-2.4%	
PCB-208 22'33'455'66'-NoCB	45.37	4.33E+07	0.78 Y	1.12	1.11	-1.3%	
PCB-206 22'33'44'55'6'-NoCB	49.37	2.98E+07	0.78 Y	1.11	1.10	-1.3%	
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				-		-	
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				-		-	
				-		-	
				-		-	
				-		-	

PCB QC Summary - Ax2 Detail				Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 17:00						
Datafile:	140328X07						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.89	1.13E+08	3.21 Y	0.95	-	-	-
PCB-2 3-MoCB	13.99	1.13E+08	3.21 Y	1.03	1.17	12.7%	
PCB-3 4-MoCB	14.17	1.11E+08	3.23 Y	1.01	-	-	
PCB-4 22'-DiCB	14.43	6.43E+07	1.59 Y	1.23	-	-	
PCB-10 26-DiCB	14.61	1.05E+08	1.59 Y	1.98	1.92	-2.9%	
PCB-9 25-DiCB	16.40	1.00E+08	1.64 Y	0.95	0.97	2.3%	
PCB-7 24-DiCB	16.57	1.14E+08	1.64 Y	1.05	1.10	5.0%	
PCB-6 23'-DiCB	16.80	1.06E+08	1.63 Y	1.00	1.03	3.1%	
PCB-5 23-DiCB	17.10	1.07E+08	1.64 Y	1.00	1.03	3.0%	
PCB-8 24'-DiCB	17.22	1.07E+08	1.64 Y	1.03	1.04	0.5%	
PCB-14 35-DiCB	18.77	1.27E+08	1.64 Y	1.18	1.23	4.2%	
PCB-11 33'-DiCB	19.55	1.10E+08	1.64 Y	1.01	1.06	5.0%	
PCB-13/12 34'/34-DiCB	19.84	2.18E+08	1.64 Y	0.99	1.06	6.7%	
PCB-15 44'-DiCB	20.13	1.14E+08	1.63 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.51	5.69E+07	1.05 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.27	1.58E+08	1.05 Y	1.54	1.56	1.5%	
PCB-17 22'4-TrCB	19.67	6.72E+07	1.05 Y	1.31	1.33	1.9%	
PCB-27 23'6-TrCB	19.86	9.18E+07	1.05 Y	1.82	1.82	0.0%	
PCB-24 236-TrCB	19.99	8.77E+07	1.04 Y	1.72	1.74	0.7%	
PCB-16 22'3-TrCB	20.09	5.00E+07	1.05 Y	1.01	0.99	-1.7%	
PCB-32 24'6-TrCB	20.57	9.76E+07	1.05 Y	1.92	1.93	0.7%	
PCB-34 23'5'-TrCB	21.72	9.42E+07	1.02 Y	1.14	1.25	10.0%	
PCB-23 235-TrCB	21.87	9.55E+07	1.01 Y	1.16	1.27	9.5%	
PCB-26/29 23'5/245-TrCB	22.15	1.93E+08	1.01 Y	1.17	1.28	9.4%	
PCB-25 23'4-TrCB	22.35	9.53E+07	1.01 Y	1.16	1.26	9.1%	
PCB-31 24'5-TrCB	22.63	1.01E+08	1.01 Y	1.23	1.34	9.7%	
PCB-28/20 244'/233'-TrCB	22.91	1.89E+08	1.01 Y	1.13	1.26	10.9%	
PCB-21/33 234/23'4'-TrCB	23.09	1.94E+08	1.01 Y	1.17	1.28	9.3%	
PCB-22 234'-TrCB	23.47	9.05E+07	1.01 Y	1.08	1.20	11.2%	
PCB-36 33'5-TrCB	24.85	9.95E+07	1.02 Y	1.17	1.32	12.7%	
PCB-39 34'5-TrCB	25.17	1.02E+08	1.01 Y	1.21	1.36	12.0%	
PCB-38 345-TrCB	25.70	9.20E+07	1.02 Y	1.10	1.22	10.4%	
PCB-35 33'4-TrCB	26.09	8.97E+07	1.01 Y	1.04	1.19	14.4%	
PCB-37 344'-TrCB	26.45	9.31E+07	1.01 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.42	6.47E+07	0.80 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.40	1.16E+08	0.79 Y	0.88	0.92	5.2%	
PCB-45 22'36'-TeCB	22.99	5.28E+07	0.78 Y	0.77	0.84	9.5%	
PCB-51 22'46'-TeCB	23.06	5.63E+07	0.79 Y	0.86	0.90	4.2%	
PCB-46 22'36'-TeCB	23.27	4.62E+07	0.79 Y	0.70	0.74	5.3%	
PCB-52 22'55'-TeCB	24.52	5.64E+07	0.79 Y	0.84	0.90	6.5%	
PCB-73 23'5'6-TeCB	24.65	7.51E+07	0.79 Y	1.11	1.19	7.4%	

Lab ID: - Ax2 Detail			Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	28-MAR-2014 17:00					
Datafile:	140328X07					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.75	4.74E+07	0.79 Y	0.71	0.75	6.2%
PCB-69/49 23'46/22'45'-TeCB	24.94	1.38E+08	0.79 Y	1.02	1.10	7.1%
PCB-48 22'45'-TeCB	25.22	5.68E+07	0.79 Y	0.84	0.90	7.8%
PCB-44/47/65 ...-TeCB	25.44	1.82E+08	0.79 Y	0.90	0.96	6.7%
PCB-59/62/75 ...-TeCB	25.72	2.36E+08	0.78 Y	1.17	1.25	7.5%
PCB-42 22'34'-TeCB	25.88	5.15E+07	0.79 Y	0.76	0.82	7.4%
PCB-41 22'34'-TeCB	26.22	4.79E+07	0.77 Y	0.69	0.76	9.7%
PCB-71/40 23'4'6/22'33'-TeCB	26.31	1.15E+08	0.79 Y	0.86	0.92	6.6%
PCB-64 23'4'-TeCB	26.51	8.34E+07	0.79 Y	1.22	1.33	8.7%
PCB-72 23'55'-TeCB	27.22	7.94E+07	0.80 Y	1.21	1.26	4.5%
PCB-68 23'45'-TeCB	27.48	8.48E+07	0.79 Y	1.28	1.35	5.7%
PCB-57 23'5'-TeCB	27.85	7.66E+07	0.80 Y	1.16	1.22	4.8%
PCB-58 23'5'-TeCB	28.05	8.01E+07	0.81 Y	1.18	1.27	8.1%
PCB-67 23'45'-TeCB	28.21	8.33E+07	0.79 Y	1.26	1.33	5.3%
PCB-63 23'4'-TeCB	28.44	8.78E+07	0.80 Y	1.30	1.40	7.7%
PCB-61/70/74/76 ...-TeCB	28.73	3.14E+08	0.79 Y	1.20	1.25	4.1%
PCB-66 23'44'-TeCB	29.01	7.41E+07	0.80 Y	1.10	1.18	7.0%
PCB-55 23'3'4'-TeCB	29.16	7.43E+07	0.81 Y	1.12	1.18	5.5%
PCB-56 23'3'4'-TeCB	29.59	7.33E+07	0.80 Y	1.11	1.17	5.1%
PCB-60 23'44'-TeCB	29.79	7.55E+07	0.80 Y	1.14	1.20	5.8%
PCB-80 33'55'-TeCB	30.11	8.65E+07	0.80 Y	1.31	1.38	4.9%
PCB-79 33'45'-TeCB	31.43	8.62E+07	0.81 Y	1.31	1.37	5.0%
PCB-78 33'45'-TeCB	31.92	7.21E+07	0.80 Y	1.06	1.15	8.0%
PCB-104 22'466'-PeCB	25.39	6.10E+07	0.63 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.71	5.31E+07	0.63 Y	1.23	1.18	-3.7%
PCB-103 22'45'6'-PeCB	27.40	5.06E+07	0.61 Y	0.93	0.93	0.2%
PCB-94 22'356'-PeCB	27.59	4.28E+07	0.62 Y	0.80	0.79	-1.4%
PCB-95 22'35'6'-PeCB	27.97	4.68E+07	0.62 Y	0.87	0.86	-0.5%
PCB-100/93 22'44'6/22'356'-PeC	28.18	9.32E+07	0.61 Y	0.86	0.86	-0.6%
PCB-102 22'456'-PeCB	28.30	5.44E+07	0.62 Y	0.97	1.00	3.5%
PCB-98 22'34'6'-PeCB	28.36	4.00E+07	0.63 Y	0.76	0.74	-2.8%
PCB-88 22'346'-PeCB	28.66	4.22E+07	0.62 Y	0.80	0.78	-2.6%
PCB-91 22'34'6'-PeCB	28.73	5.00E+07	0.62 Y	0.94	0.92	-2.5%
PCB-84 22'33'6'-PeCB	28.92	3.87E+07	0.62 Y	0.72	0.71	-0.3%
PCB-89 22'346'-PeCB	29.34	4.12E+07	0.62 Y	0.76	0.76	-0.6%
PCB-121 23'45'6'-PeCB	29.68	6.49E+07	0.61 Y	1.20	1.20	-0.3%
PCB-92 22'355'-PeCB	30.00	4.40E+07	0.62 Y	0.82	0.81	-1.1%
PCB-113/90/101 ...-PeCB	30.48	1.56E+08	0.62 Y	0.99	0.96	-2.5%
PCB-83 22'33'5'-PeCB	30.92	3.78E+07	0.61 Y	0.71	0.70	-2.6%

Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 07:25			
Lab ID:	CS3_140328_PCB_XB			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	28-MAR-2014 17:00						
Datafile:	140328X07						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	31.01	4.87E+07	0.63 Y	0.92	0.90		-2.6%
PCB-112 233'56-PeCB	31.11	6.34E+07	0.62 Y	1.17	1.17		-0.1%
PCB-108/119/86/97/125...-PeCB	31.46	3.18E+08	0.62 Y	0.98	0.98		-0.3%
PCB-117 234'56-PeCB	32.00	6.39E+07	0.61 Y	1.14	1.18		3.4%
PCB-116/85 23456/22'344'-PeCB	32.09	9.50E+07	0.62 Y	0.94	0.88		-6.9%
PCB-110 233'4'6-PeCB	32.20	5.95E+07	0.61 Y	1.12	1.10		-2.0%
PCB-115 2344'6-PeCB	32.29	6.28E+07	0.62 Y	1.16	1.16		-0.2%
PCB-82 22'33'4-PeCB	32.49	3.73E+07	0.62 Y	0.70	0.69		-1.3%
PCB-111 233'55'-PeCB	32.80	6.55E+07	0.62 Y	1.22	1.21		-1.2%
PCB-120 23'455'-PeCB	33.19	6.64E+07	0.62 Y	1.21	1.22		1.0%
PCB-107/124 ...-PeCB	34.16	1.20E+08	0.62 Y	1.10	1.11		0.9%
PCB-109 233'46-PeCB	34.37	6.72E+07	0.62 Y	1.25	1.24		-1.2%
PCB-106 233'45-PeCB	34.59	6.01E+07	0.62 Y	1.11	1.11		0.2%
PCB-122 233'4'5'-PeCB	35.05	5.70E+07	0.61 Y	0.99	1.03		4.0%
PCB-127 33'455'-PeCB	36.99	6.14E+07	0.62 Y	1.10	1.12		1.9%
PCB-155 22'44'66'-HxCB	30.34	6.76E+07	1.25 Y	1.26	-		-
PCB-152 22'3566'-HxCB	30.50	6.21E+07	1.26 Y	1.17	1.14		-3.0%
PCB-150 22'34'66'-HxCB	30.64	6.30E+07	1.27 Y	1.18	1.15		-1.8%
PCB-136 22'33'66'-HxCB	30.95	5.77E+07	1.27 Y	1.07	1.06		-0.7%
PCB-145 22'3466'-HxCB	31.22	5.97E+07	1.27 Y	1.11	1.09		-1.9%
PCB-148 22'34'56'-HxCB	32.49	4.47E+07	1.28 Y	1.18	1.15		-2.9%
PCB-151/135 ...-HxCB	33.01	8.49E+07	1.26 Y	1.14	1.09		-4.1%
PCB-154 22'44'56'-HxCB	33.22	5.00E+07	1.27 Y	1.34	1.29		-4.2%
PCB-144 22'345'6-HxCB	33.48	4.43E+07	1.26 Y	1.18	1.14		-3.8%
PCB-147/149 ...-HxCB	33.78	8.67E+07	1.26 Y	1.18	1.11		-5.2%
PCB-134 22'33'56-HxCB	33.96	3.63E+07	1.25 Y	0.92	0.93		1.0%
PCB-143 22'3456'-HxCB	34.04	3.97E+07	1.28 Y	1.13	1.02		-9.5%
PCB-139/140 ...-HxCB	34.30	8.80E+07	1.27 Y	1.21	1.13		-6.1%
PCB-131 22'33'46-HxCB	34.48	3.79E+07	1.27 Y	1.03	0.98		-4.9%
PCB-142 22'3456-HxCB	34.62	3.69E+07	1.26 Y	0.99	0.95		-4.1%
PCB-132 22'33'46'-HxCB	34.85	3.85E+07	1.26 Y	1.03	0.99		-4.0%
PCB-133 22'33'55'-HxCB	35.26	4.08E+07	1.26 Y	1.13	1.05		-7.3%
PCB-165 233'55'6-HxCB	35.60	5.26E+07	1.26 Y	1.41	1.35		-3.9%
PCB-146 22'34'55'-HxCB	35.81	4.47E+07	1.27 Y	1.20	1.15		-4.3%
PCB-161 233'45'6-HxCB	35.93	5.73E+07	1.28 Y	1.52	1.47		-3.1%
PCB-153/168 ...-HxCB	36.36	1.10E+08	1.26 Y	1.46	1.42		-2.7%
PCB-141 22'3455'-HxCB	36.50	4.04E+07	1.26 Y	1.09	1.04		-4.6%
PCB-130 22'33'45'-HxCB	36.85	3.58E+07	1.27 Y	0.97	0.92		-5.4%
PCB-137 22'344'5-HxCB	37.05	4.33E+07	1.27 Y	1.16	1.11		-4.1%
PCB-164 233'4'5'6-HxCB	37.13	5.55E+07	1.26 Y	1.50	1.43		-4.7%
PCB-163/138/129 ...-HxCB	37.42	1.34E+08	1.26 Y	1.19	1.15		-3.7%

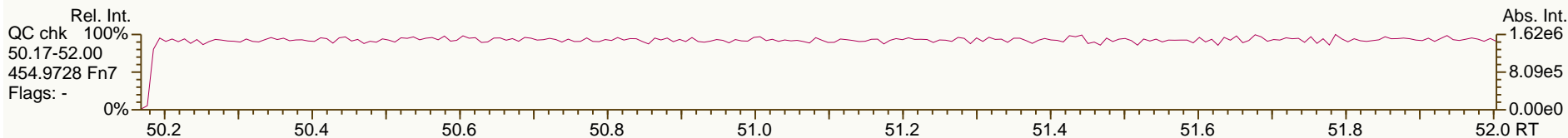
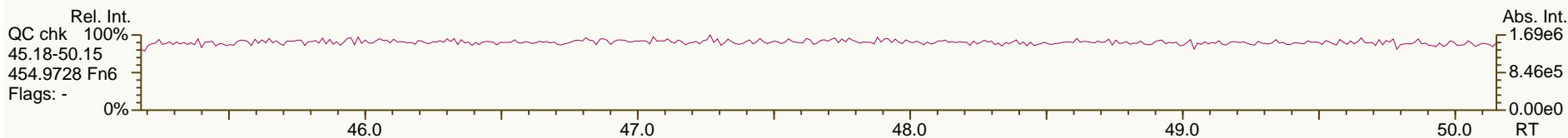
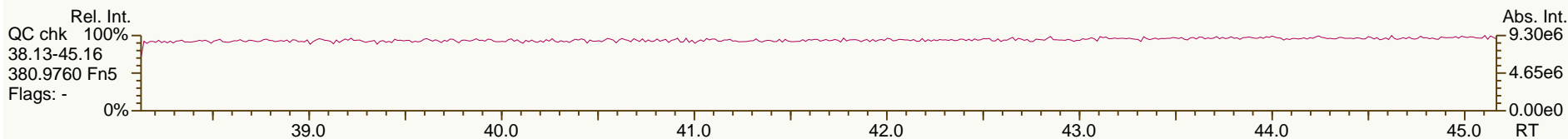
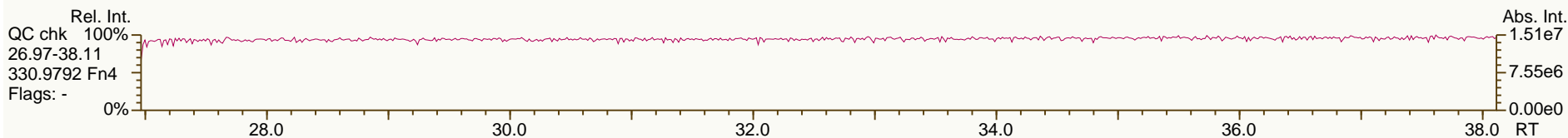
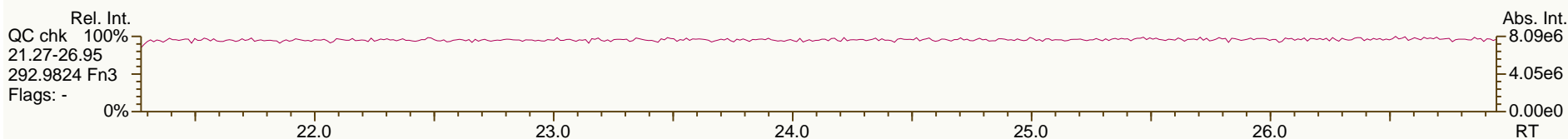
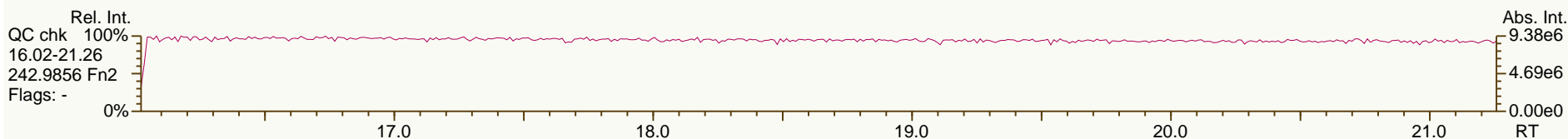
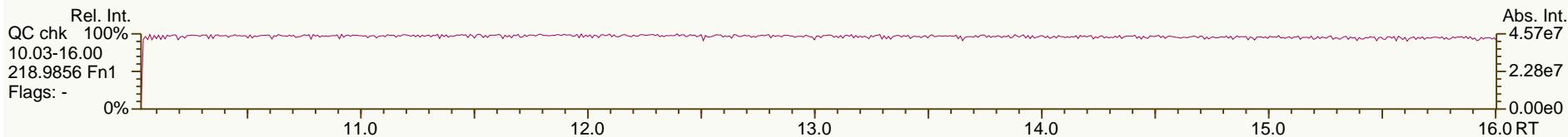
Lab ID: - Ax2 Detail				Processed: 31-Mar-2014 07:25		
Lab ID:	CS3_140328_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	28-MAR-2014 17:00					
Datafile:	140328X07					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	37.56	5.40E+07	1.26 Y	1.52	1.39	-8.3%
PCB-158 233'44'6-HxCB	37.74	5.96E+07	1.25 Y	1.66	1.53	-7.7%
PCB-128/166 ...-HxCB	38.47	8.97E+07	1.23 Y	0.90	0.90	0.4%
PCB-159 233'455'-HxCB	39.29	5.47E+07	1.23 Y	1.11	1.10	-1.3%
PCB-162 233'4'55'-HxCB	39.52	5.48E+07	1.24 Y	1.07	1.10	2.9%
PCB-188 22'34'566'-HpCB	35.21	4.59E+07	1.06 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.50	4.43E+07	1.05 Y	1.16	1.13	-3.0%
PCB-184 22'344'66'-HpCB	35.95	4.15E+07	1.06 Y	1.13	1.06	-6.5%
PCB-176 22'33'466'-HpCB	36.25	4.51E+07	1.06 Y	1.23	1.15	-7.1%
PCB-186 22'34566'-HpCB	36.65	4.21E+07	1.06 Y	1.13	1.07	-4.9%
PCB-178 22'33'55'6-HpCB	37.77	3.04E+07	1.07 Y	0.84	0.77	-8.3%
PCB-175 22'33'45'6-HpCB	38.32	3.94E+07	1.06 Y	1.07	1.07	0.0%
PCB-187 22'34'55'6-HpCB	38.55	4.22E+07	1.05 Y	1.14	1.15	1.1%
PCB-182 22'344'56'-HpCB	38.72	4.32E+07	1.06 Y	1.18	1.18	0.2%
PCB-183 22'344'5'6-HpCB	39.07	4.38E+07	1.05 Y	1.20	1.20	-0.8%
PCB-185 22'3455'6-HpCB	39.16	4.05E+07	1.06 Y	1.06	1.10	4.1%
PCB-174 22'33'456'-HpCB	39.27	3.44E+07	1.05 Y	0.99	0.94	-5.3%
PCB-177 22'33'45'6'-HpCB	39.64	3.39E+07	1.04 Y	0.95	0.92	-2.9%
PCB-181 22'344'56'-HpCB	39.99	3.93E+07	1.04 Y	1.09	1.07	-1.6%
PCB-171/173 ...-HpCB	40.17	6.88E+07	1.05 Y	0.95	0.94	-1.1%
PCB-172 22'33'455'-HpCB	41.52	3.59E+07	1.06 Y	0.99	0.98	-1.1%
PCB-192 233'455'6-HpCB	41.77	4.72E+07	1.04 Y	1.29	1.29	0.0%
PCB-180/193 ...-HpCB	42.04	9.13E+07	1.05 Y	1.26	1.24	-1.3%
PCB-191 233'44'5'6-HpCB	42.37	5.07E+07	1.05 Y	1.40	1.38	-0.9%
PCB-170 22'33'44'5-HpCB	43.14	3.56E+07	1.05 Y	1.14	1.13	-0.1%
PCB-190 233'44'56-HpCB	43.59	5.01E+07	1.05 Y	1.66	1.60	-3.9%
PCB-202 22'33'55'66'-OcCB	39.75	3.84E+07	0.91 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.53	4.36E+07	0.92 Y	1.22	1.14	-6.3%
PCB-204 22'344'566'-OcCB	41.11	4.09E+07	0.91 Y	1.12	1.07	-3.7%
PCB-197 22'33'44'66'-OcCB	41.29	4.20E+07	0.91 Y	1.19	1.10	-7.5%
PCB-200 22'33'4566'-OcCB	41.38	4.13E+07	0.91 Y	1.11	1.08	-2.1%
PCB-198/199 ...-OcCB	43.71	5.67E+07	0.91 Y	0.81	0.74	-8.1%
PCB-196 22'33'44'56'-OcCB	44.28	3.03E+07	0.90 Y	0.83	0.80	-4.6%
PCB-203 22'344'55'6-OcCB	44.45	3.18E+07	0.91 Y	0.87	0.83	-4.6%
PCB-195 22'33'44'56-OcCB	45.57	2.74E+07	0.90 Y	0.77	0.72	-5.8%
PCB-194 22'33'44'55'-OcCB	47.51	3.06E+07	0.91 Y	0.84	0.81	-4.5%
PCB-205 233'44'55'6-OcCB	47.91	3.93E+07	0.91 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.37	4.33E+07	0.78 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.15	4.59E+07	0.79 Y	1.19	1.18	-1.3%
PCB-206 22'33'44'55'6-NoCB	49.37	2.98E+07	0.78 Y	1.11	-	-



SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

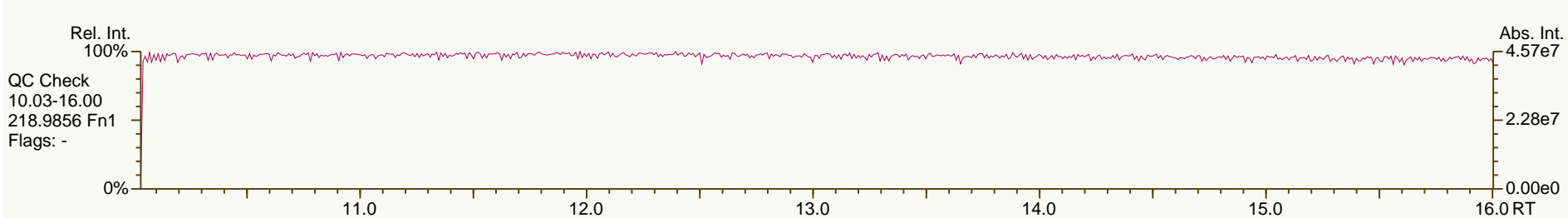
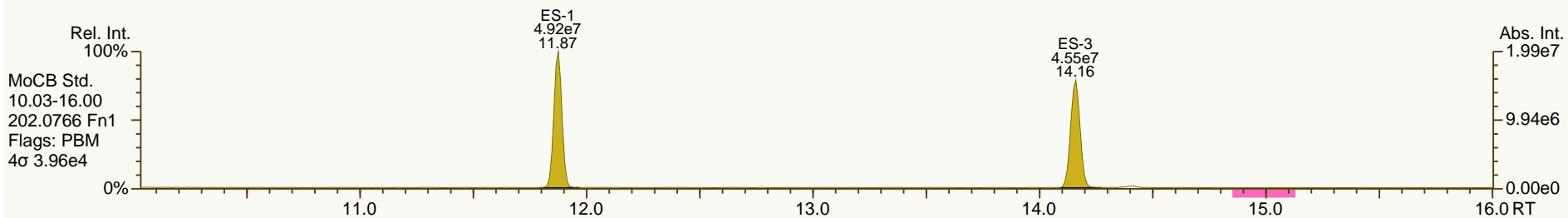
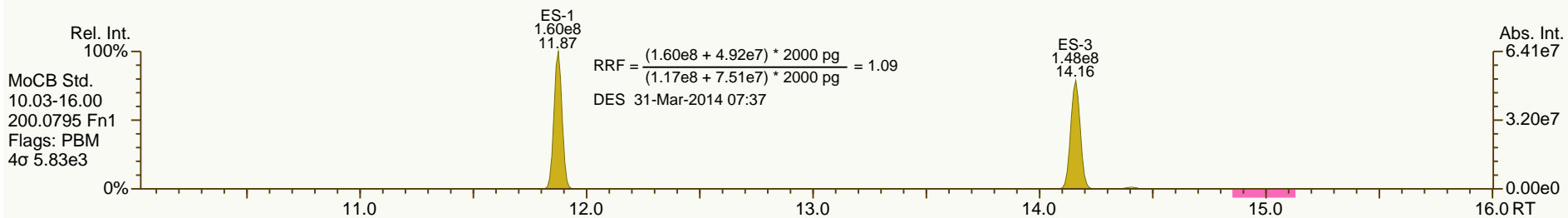
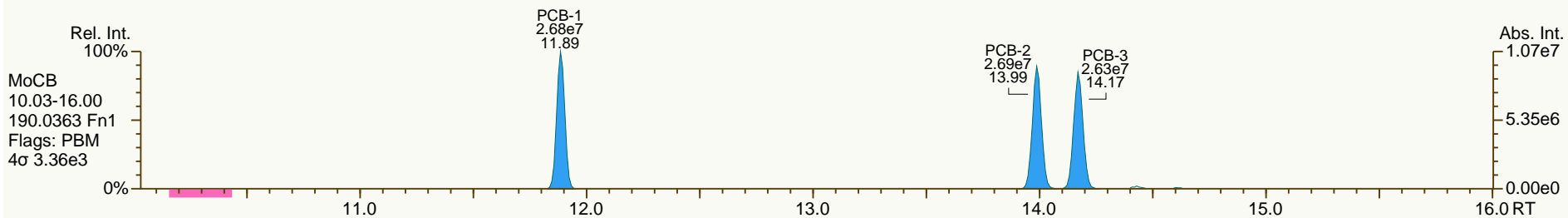
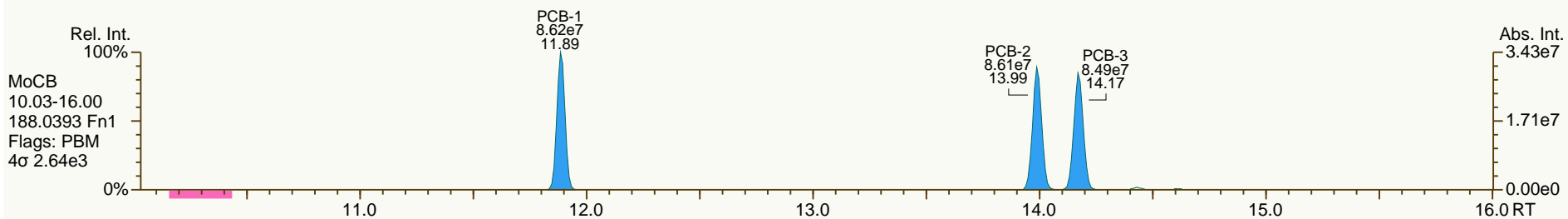
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

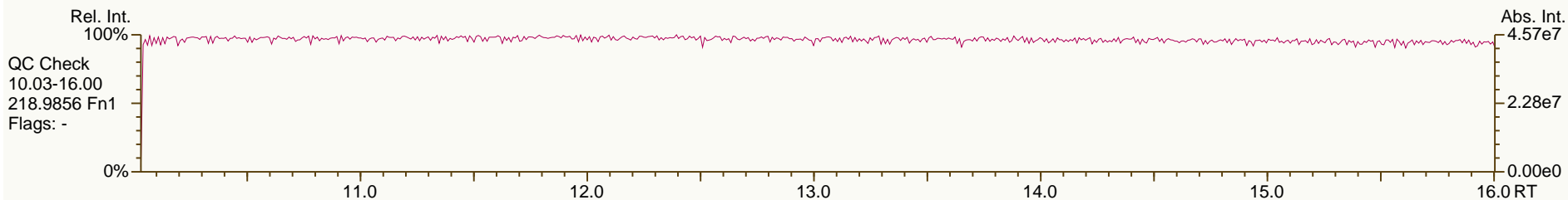
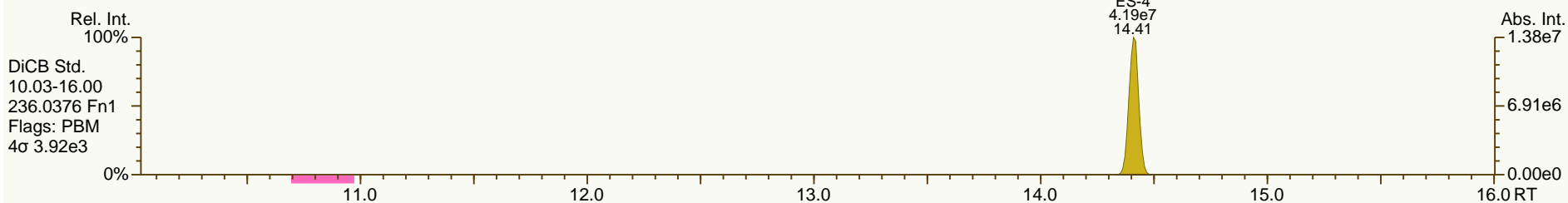
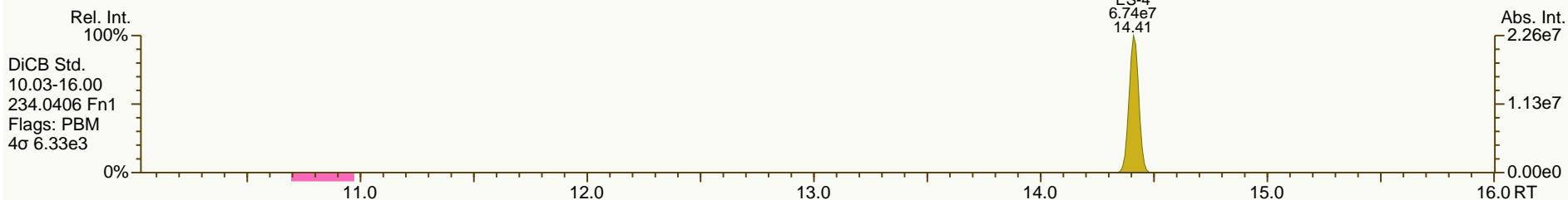
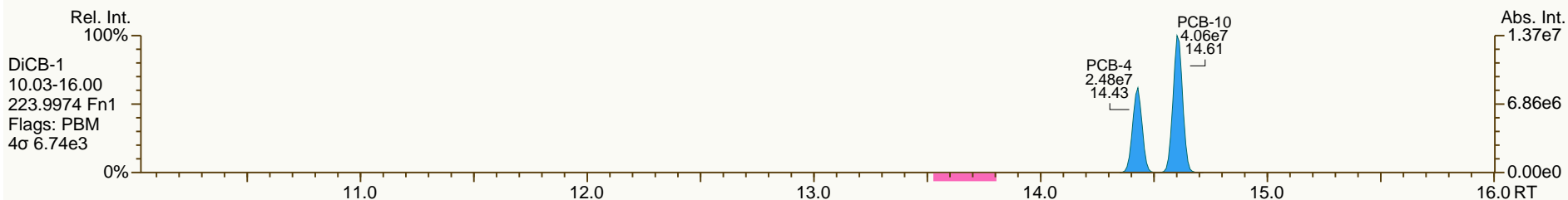
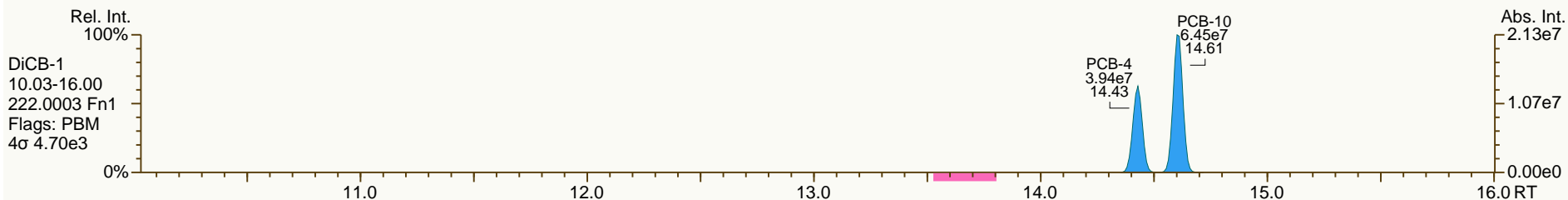
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

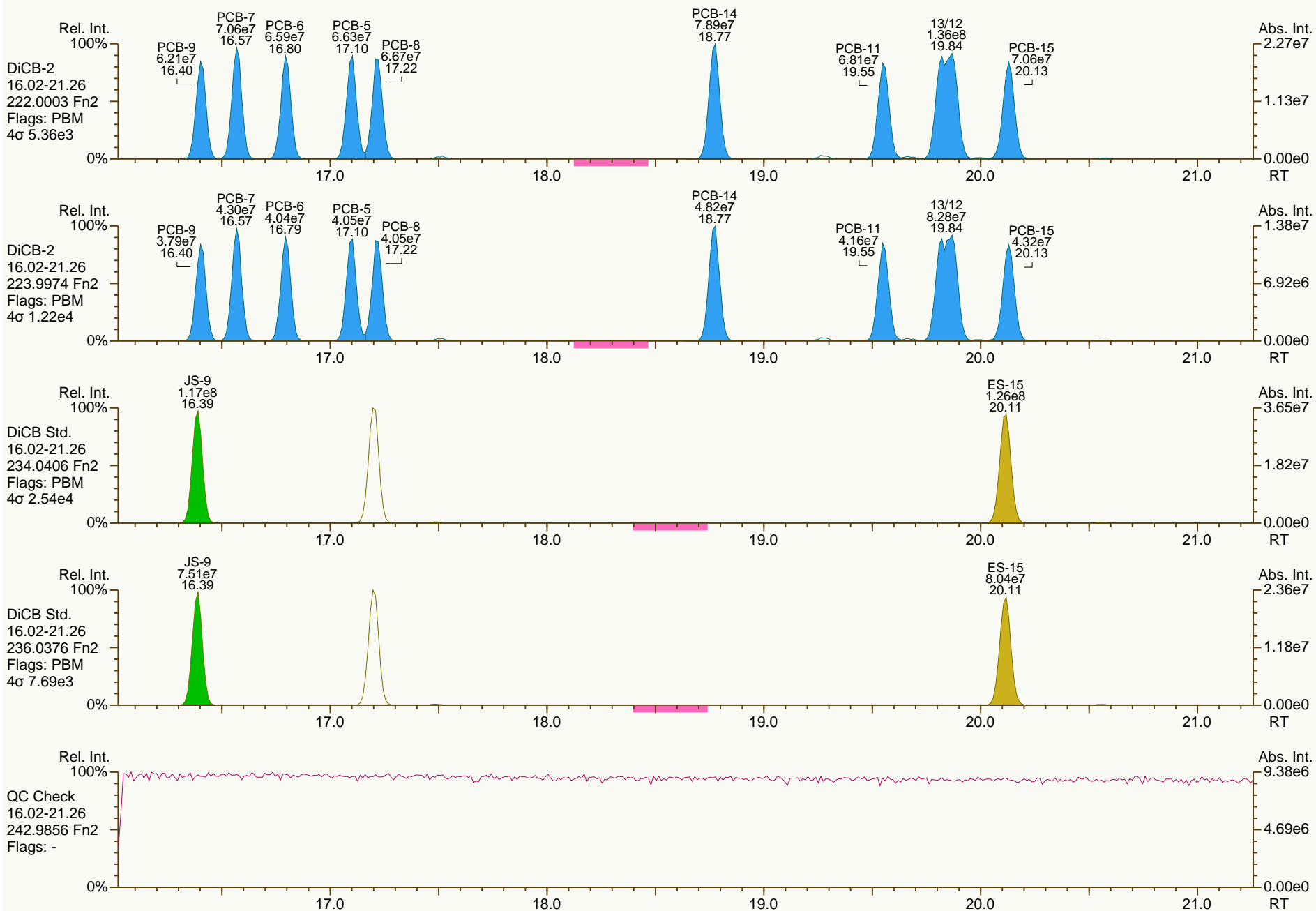
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

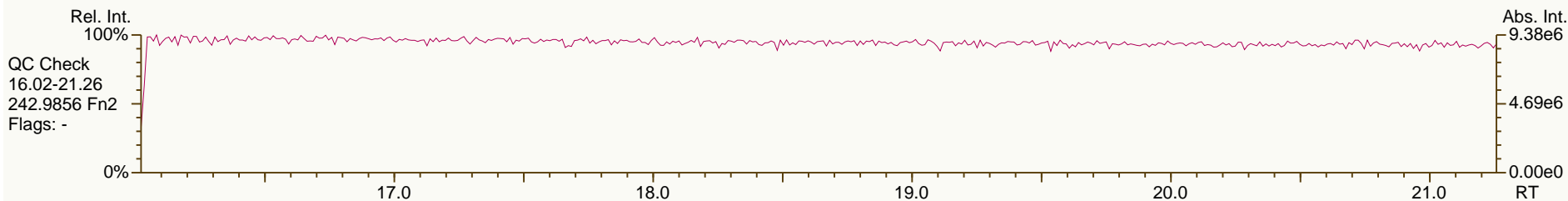
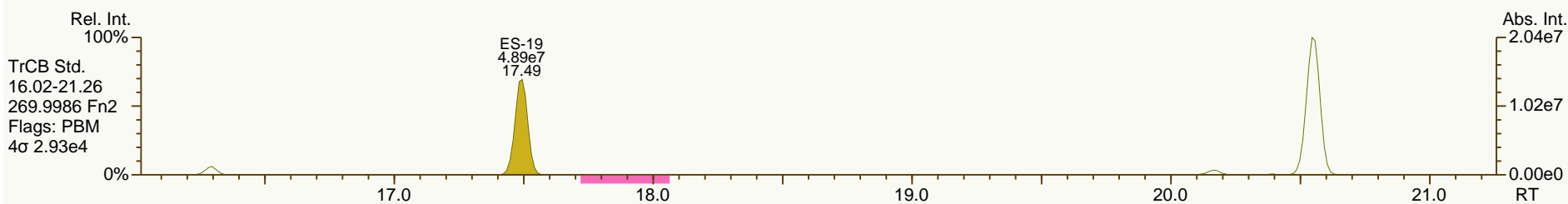
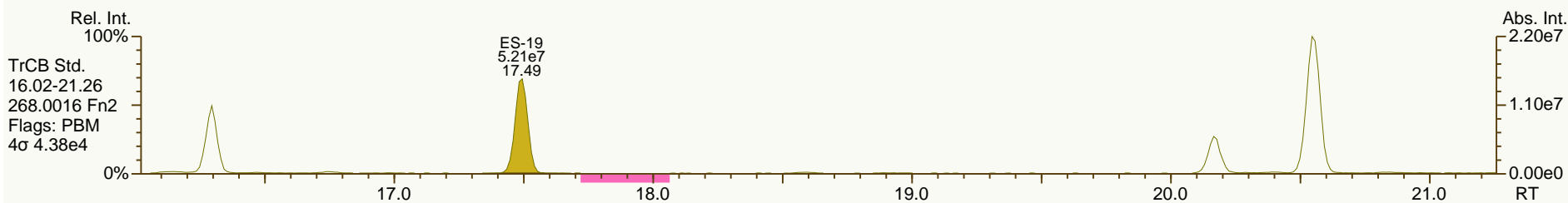
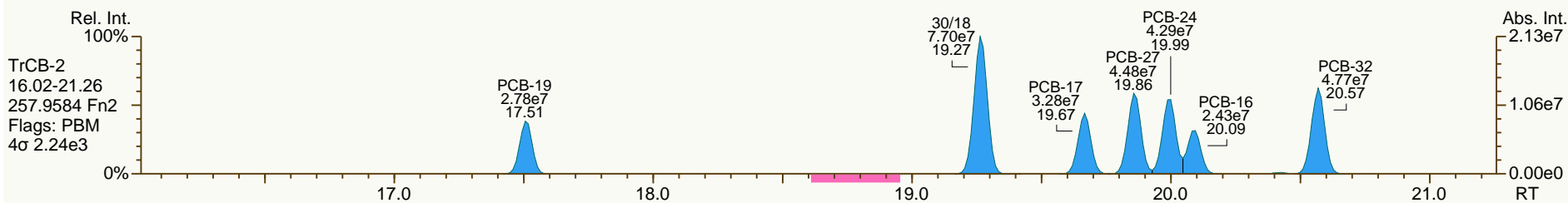
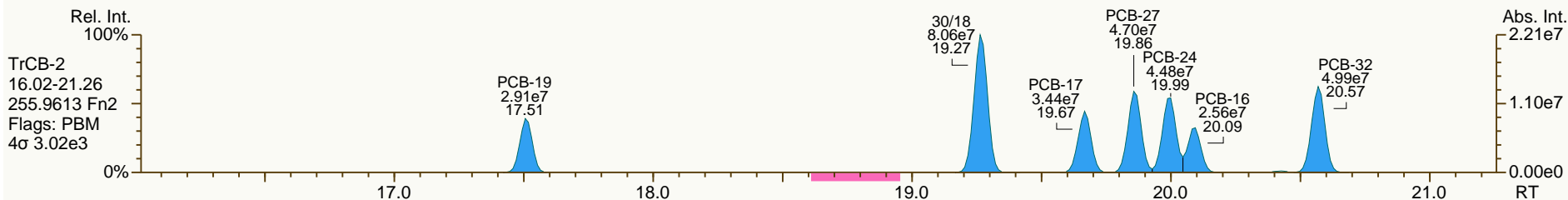
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

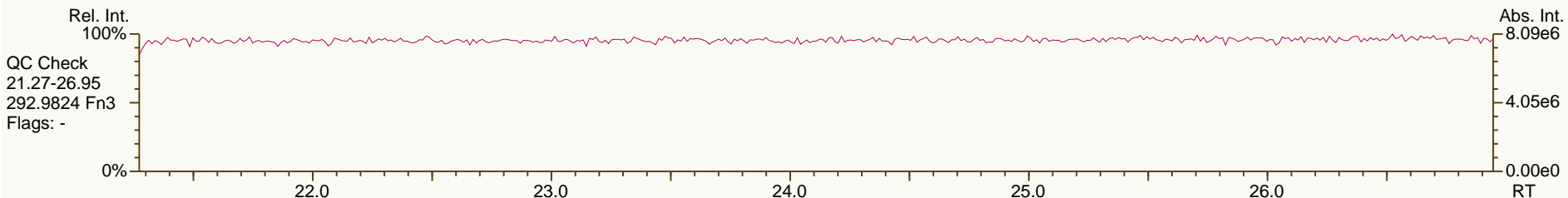
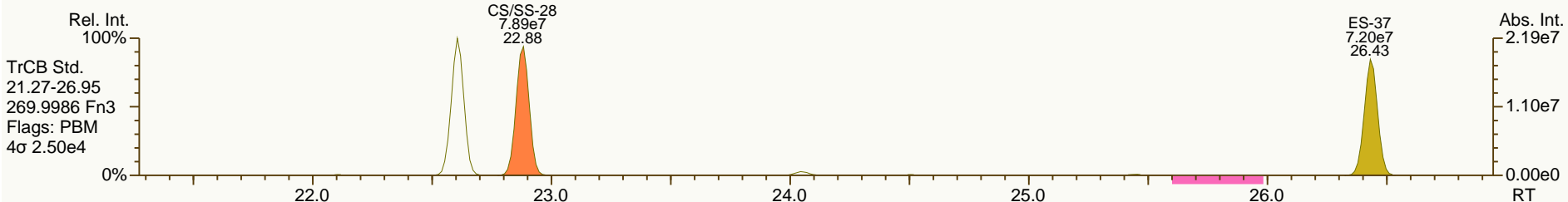
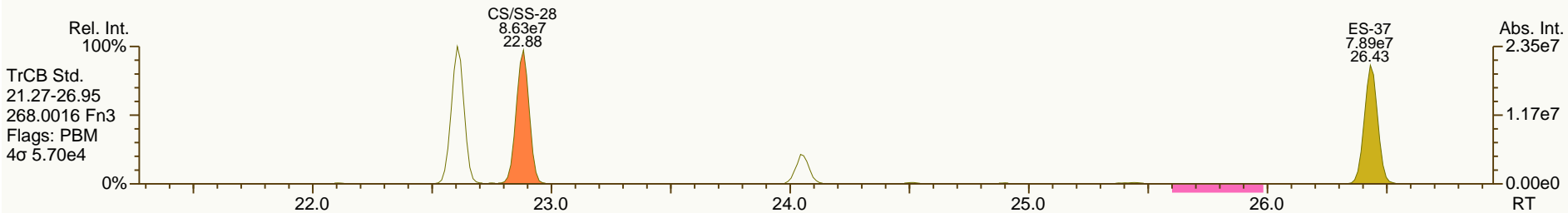
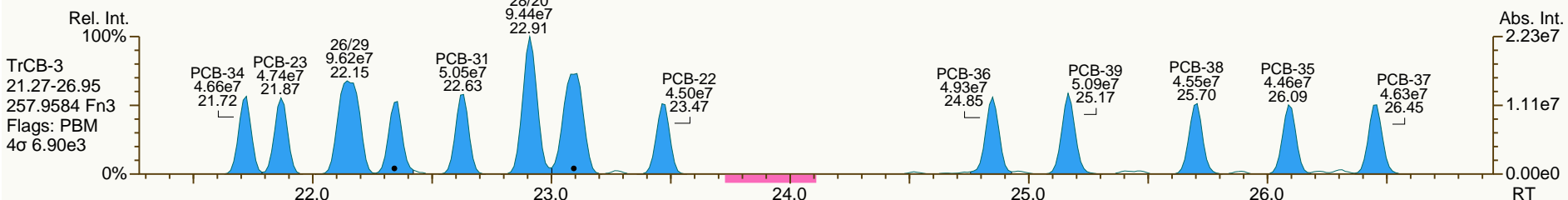
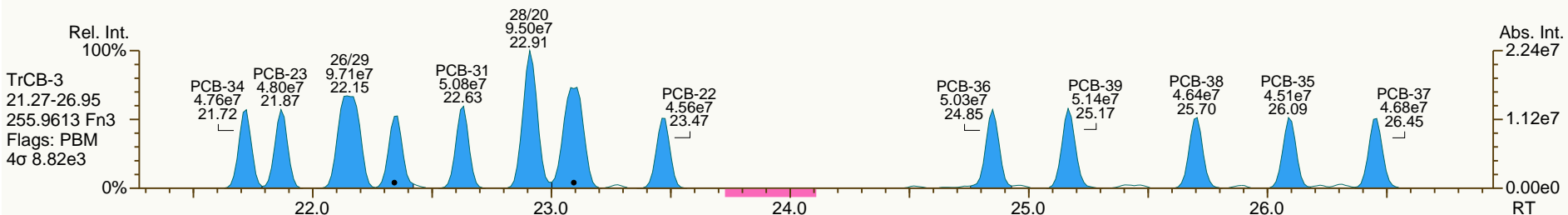
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

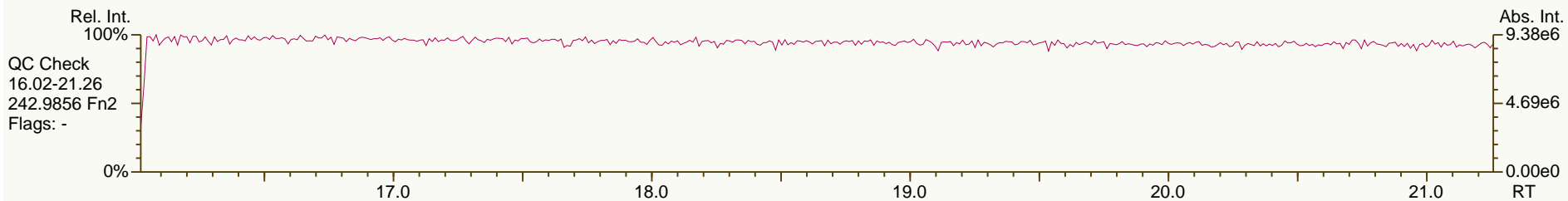
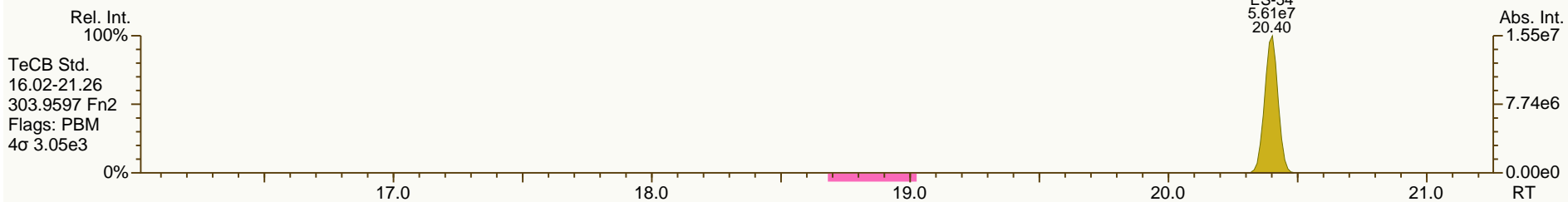
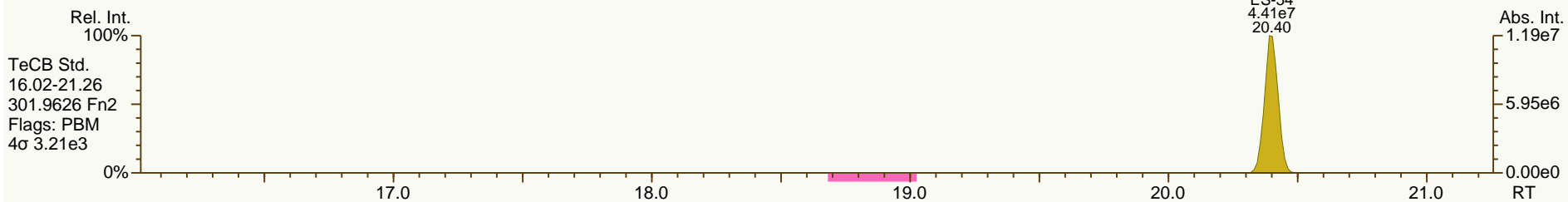
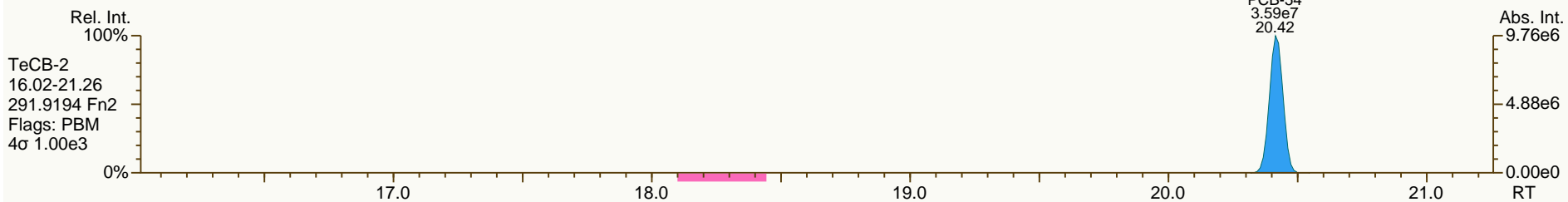
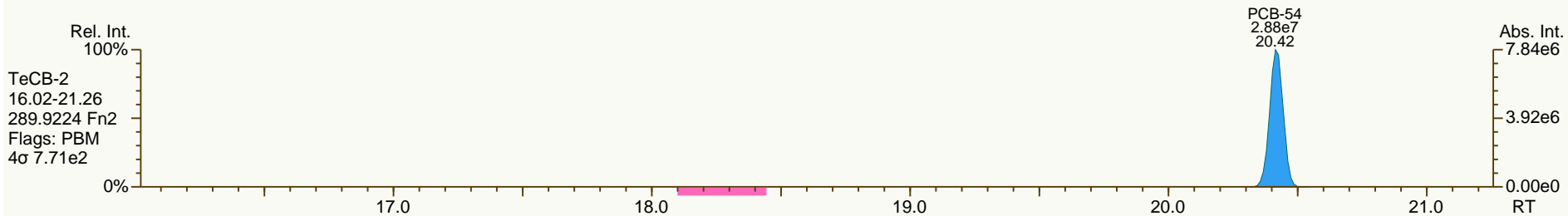
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User: LKB Datafile: 140328X07



SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

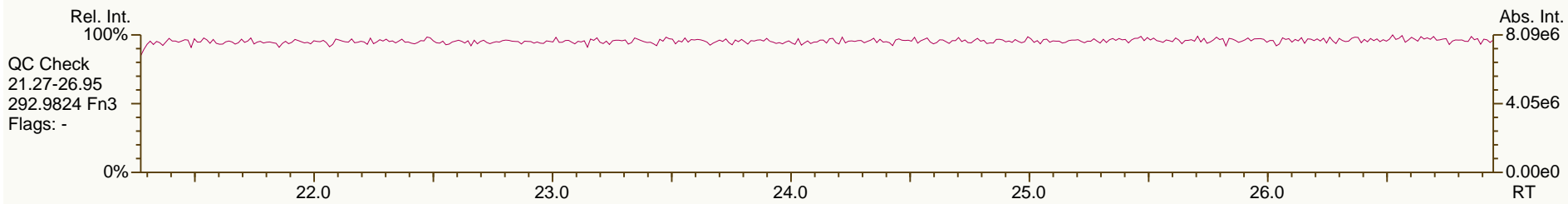
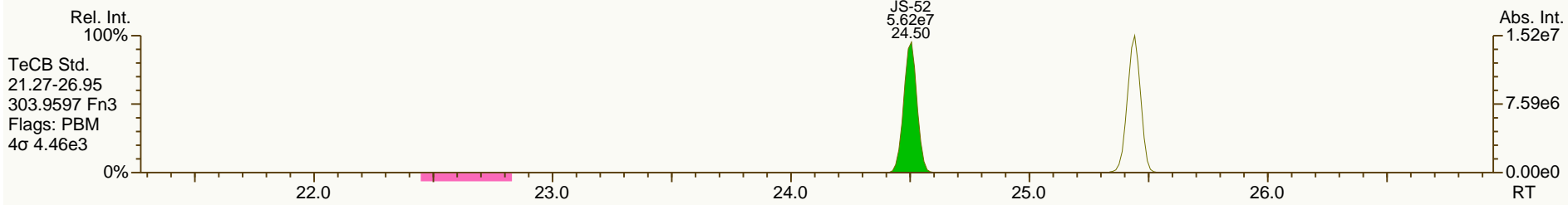
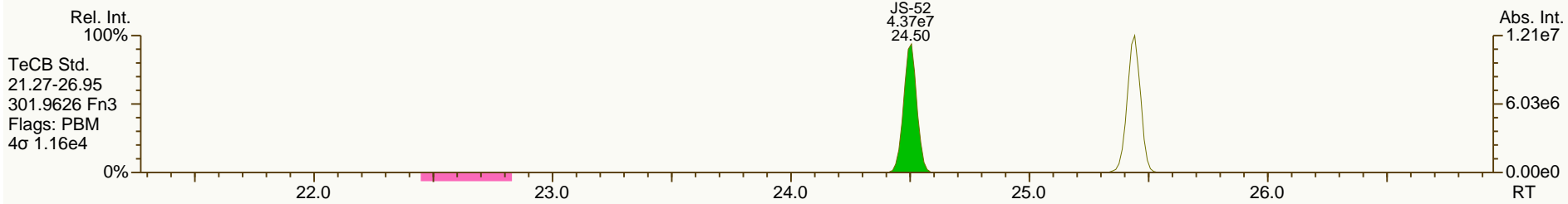
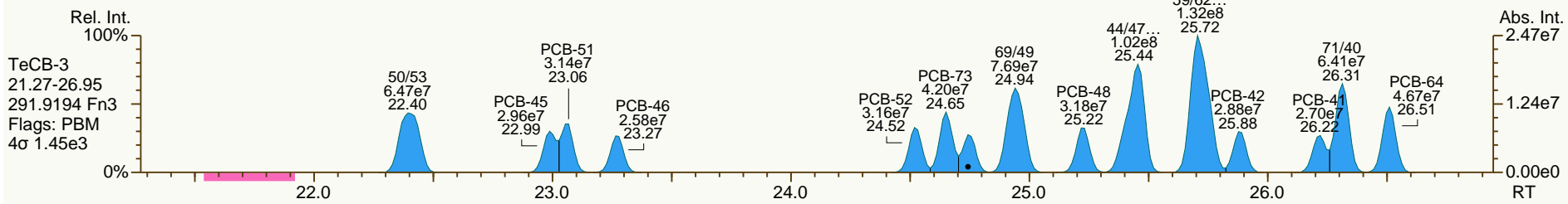
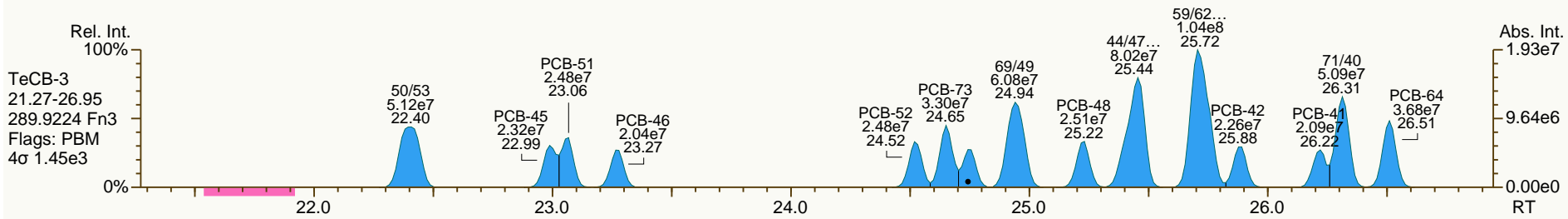
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 28-Mar-2014 17:00:58  
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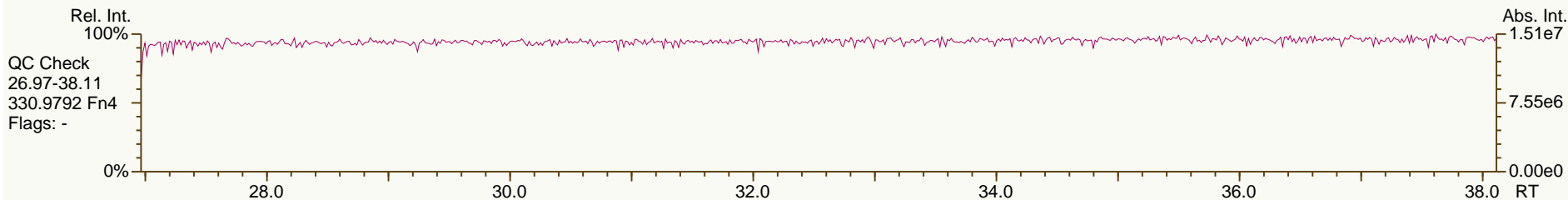
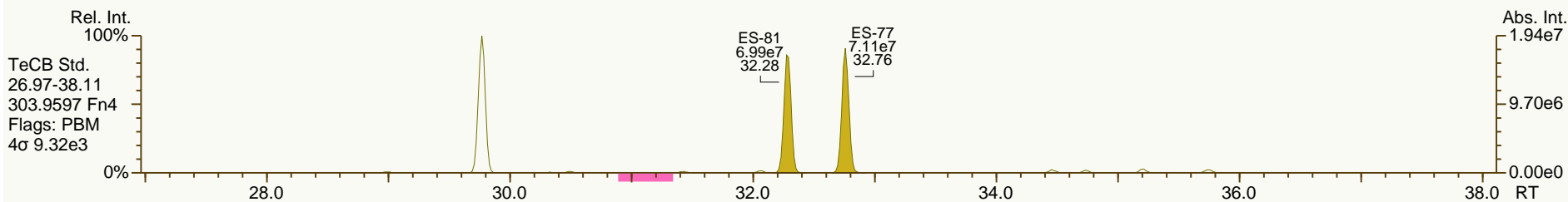
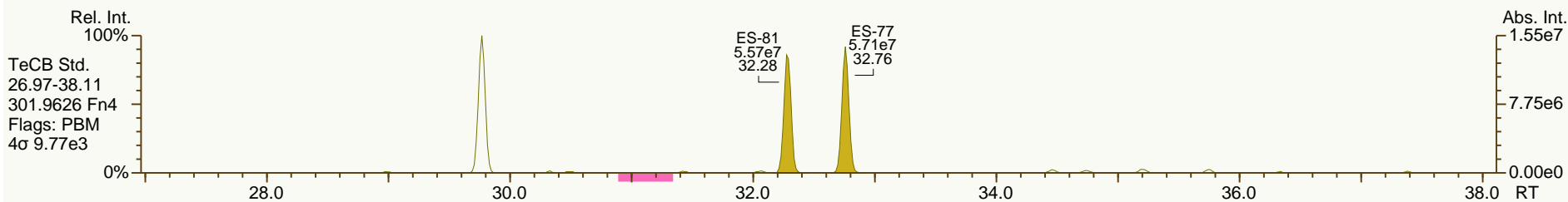
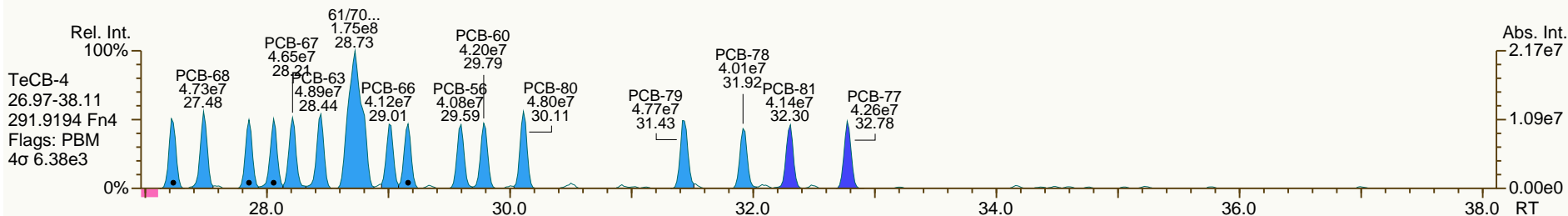
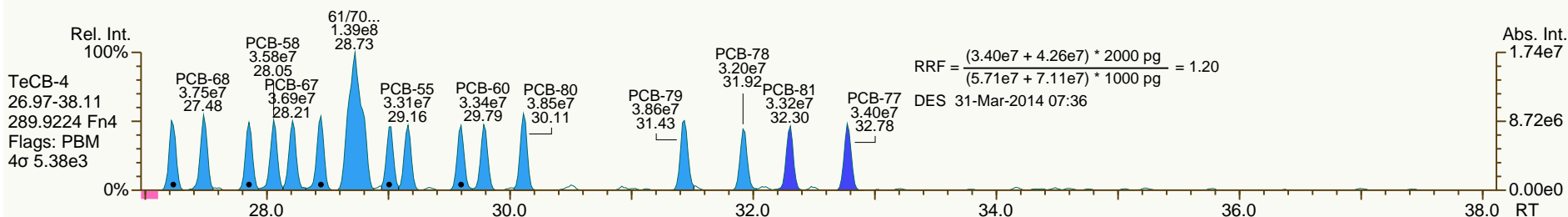




SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

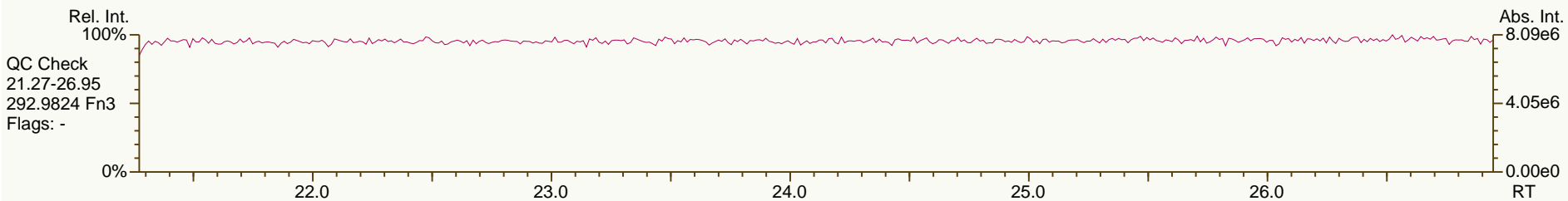
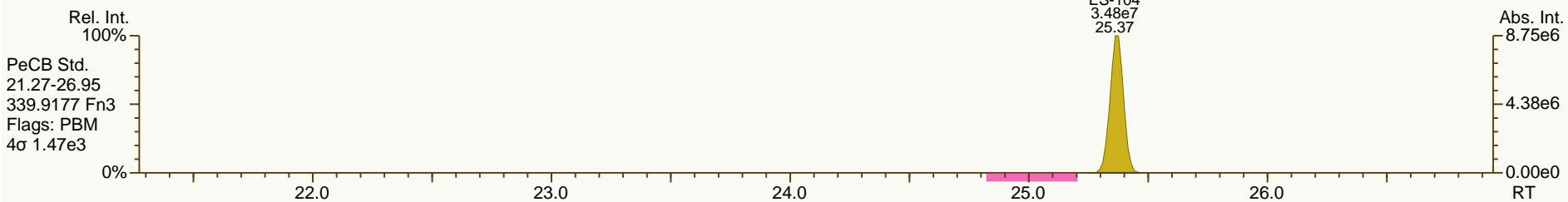
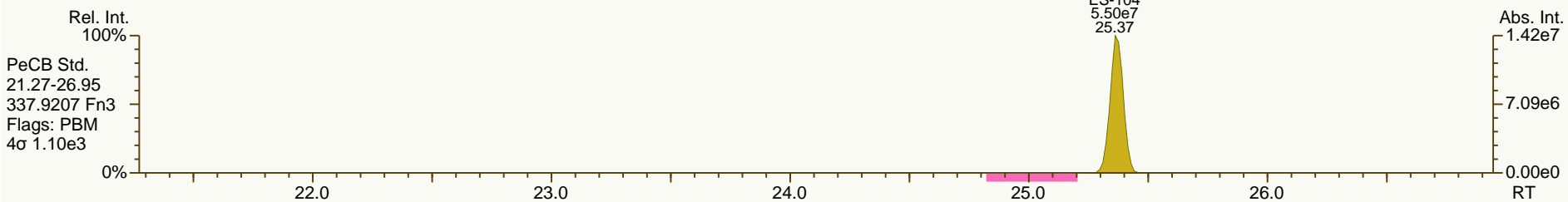
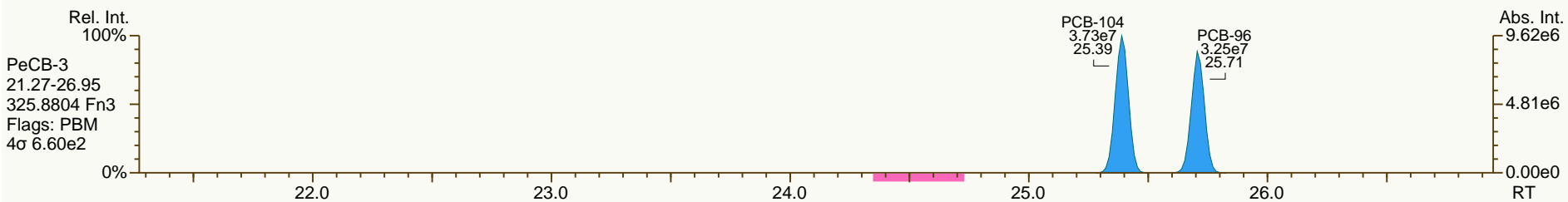
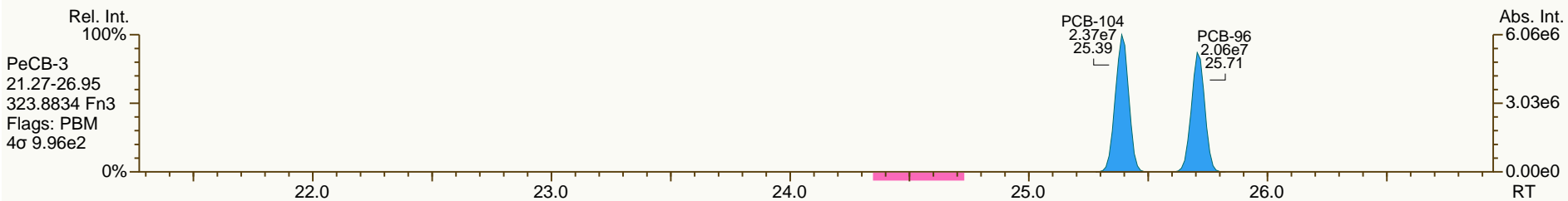
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

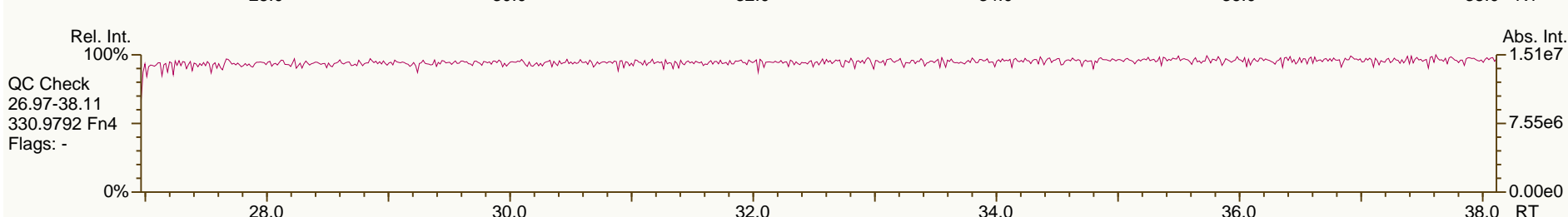
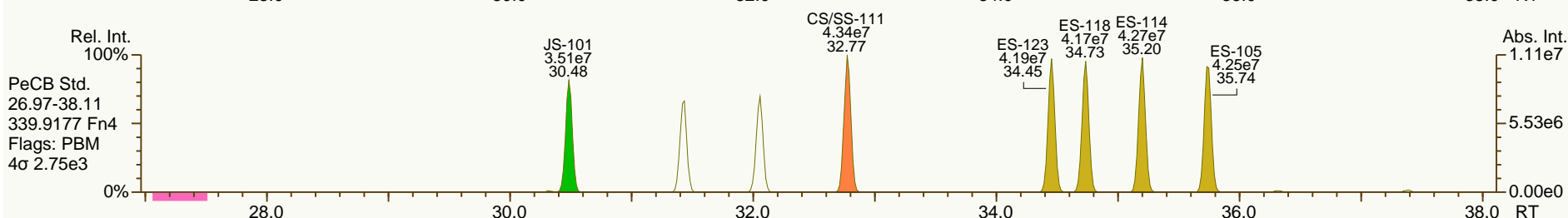
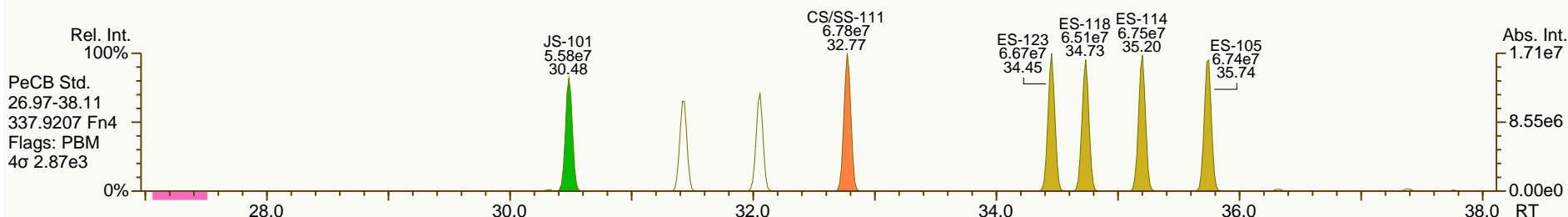
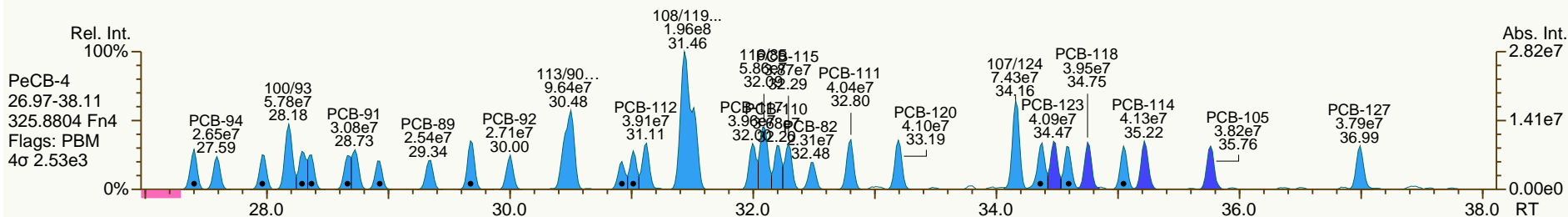
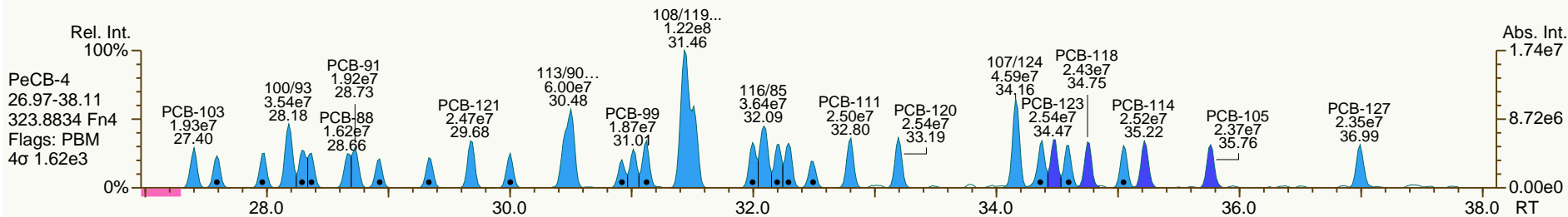
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

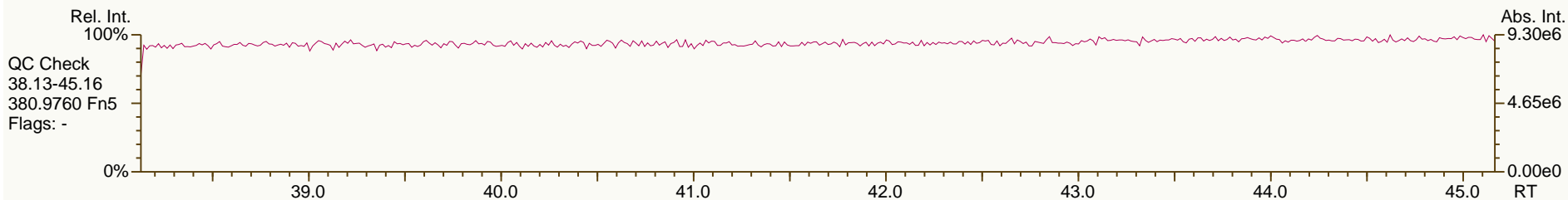
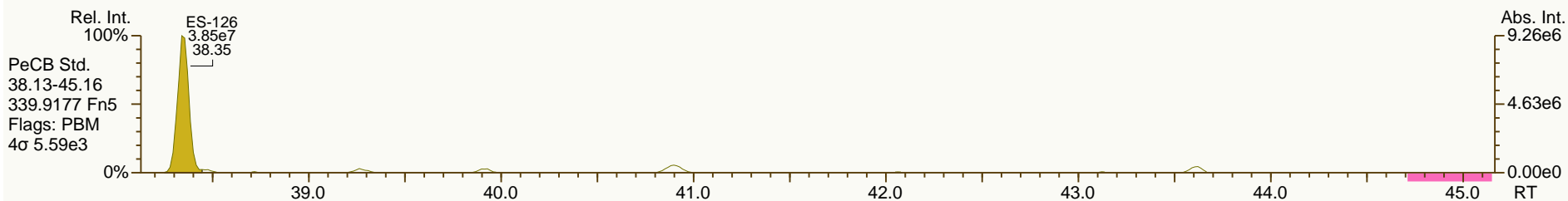
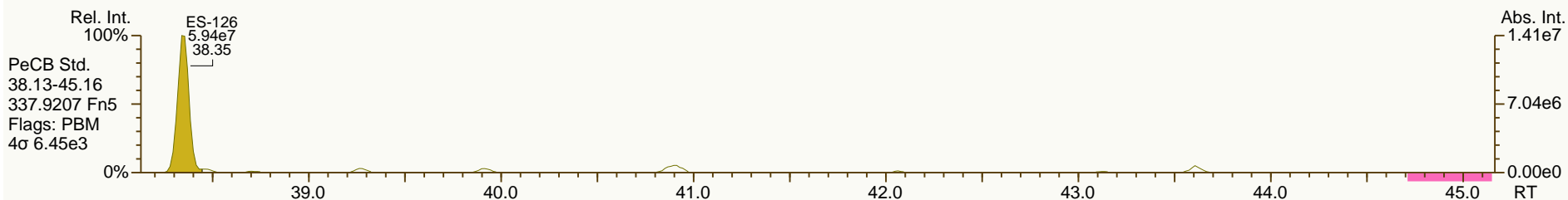
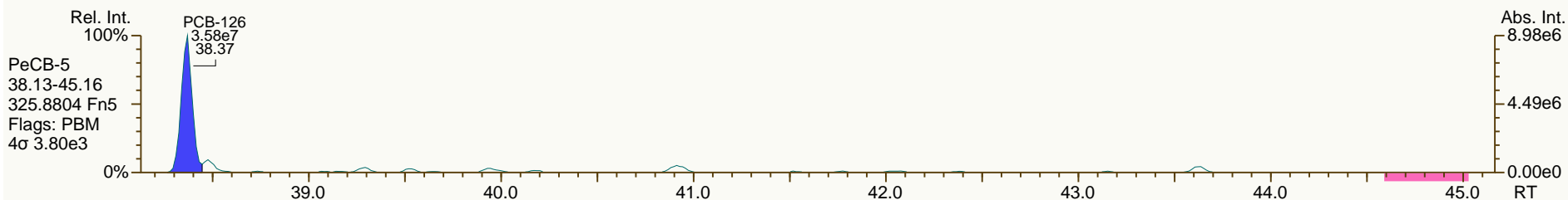
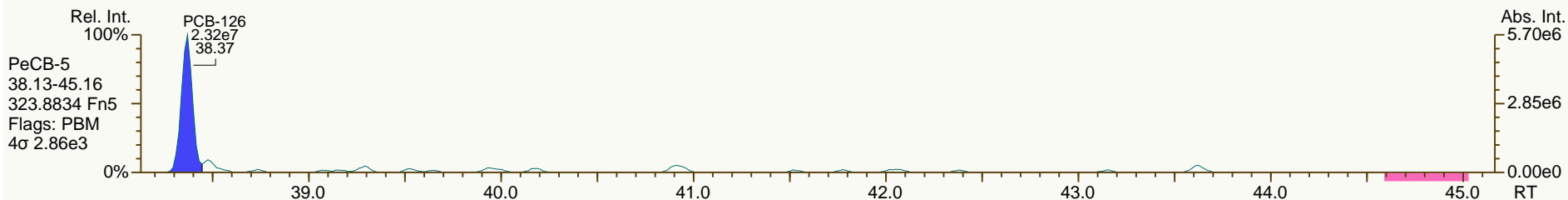
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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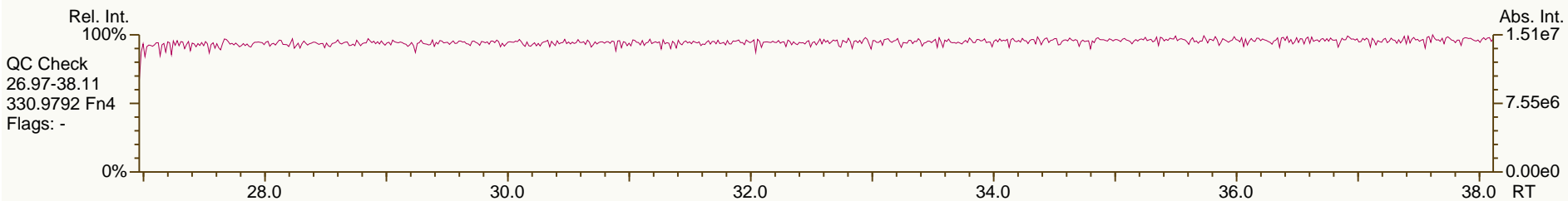
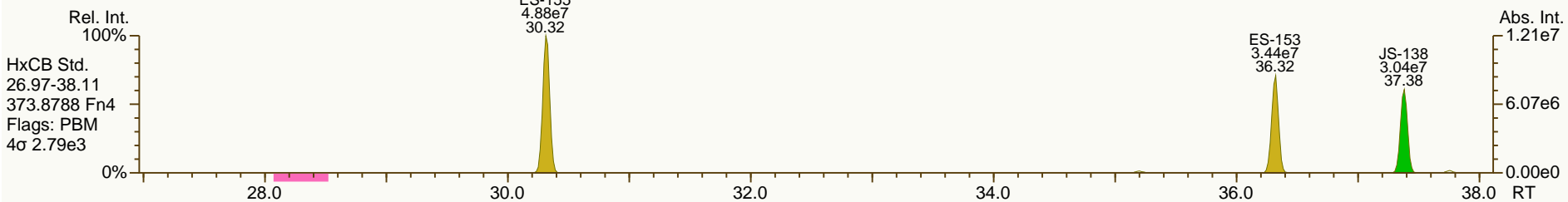
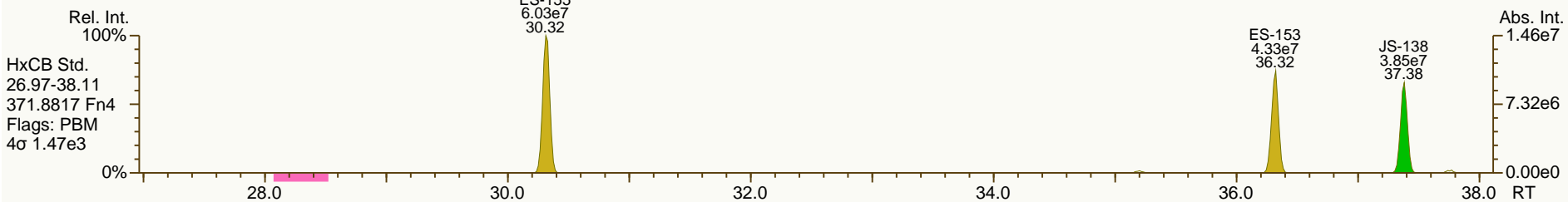
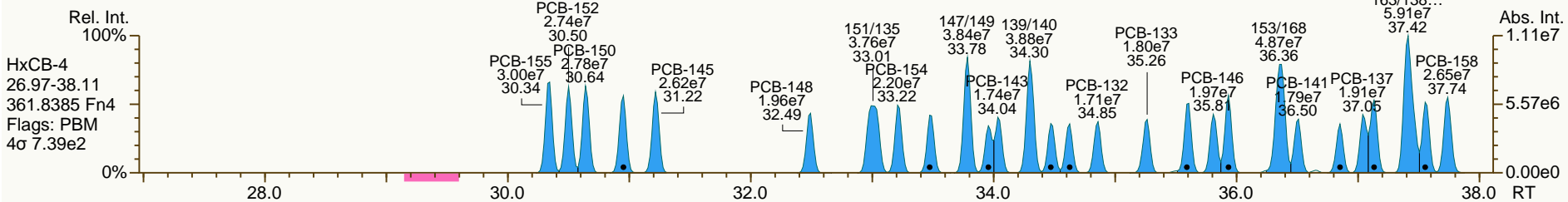
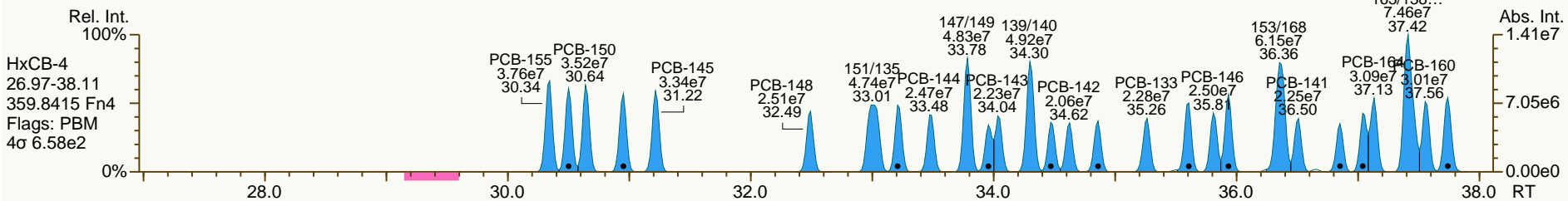
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

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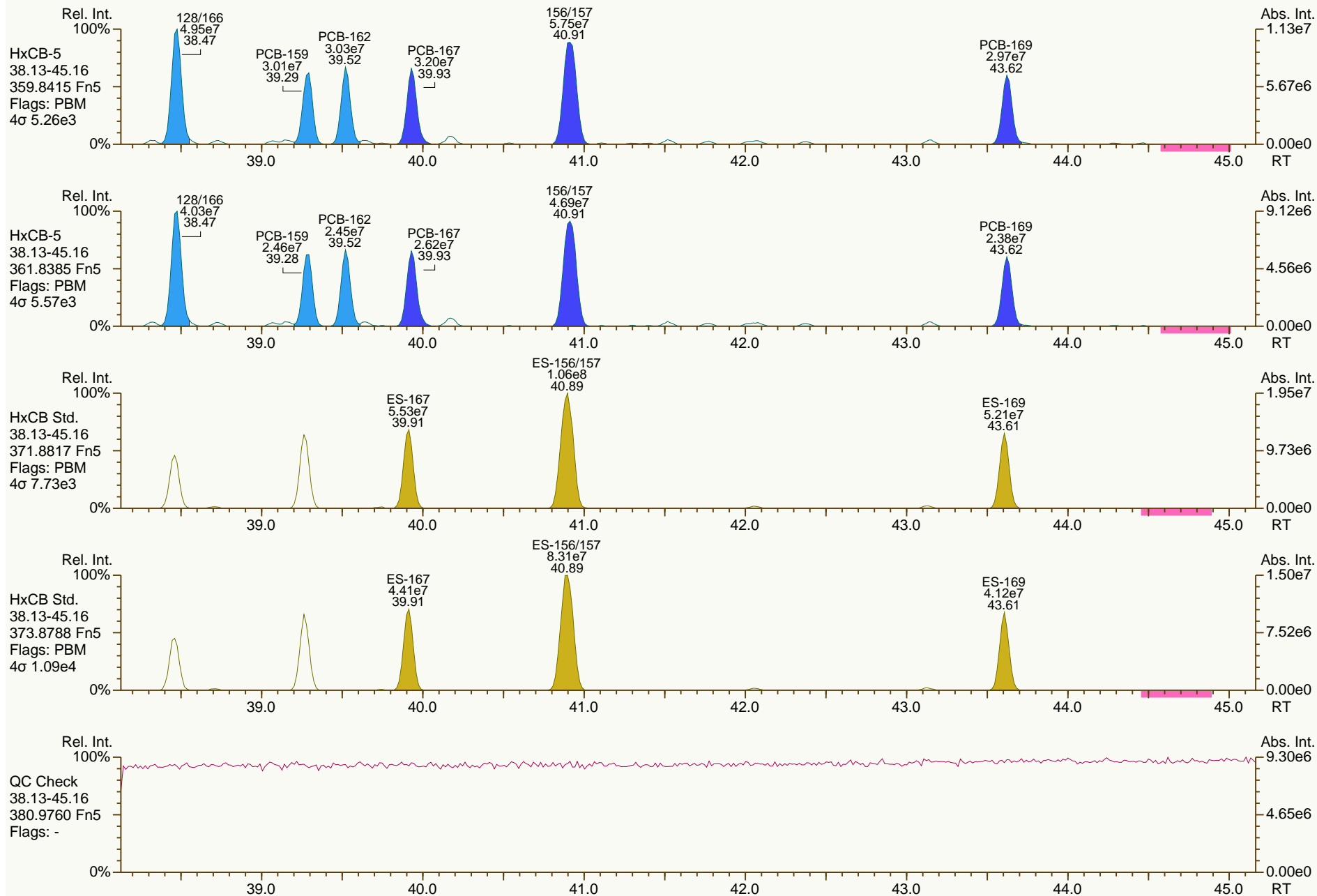
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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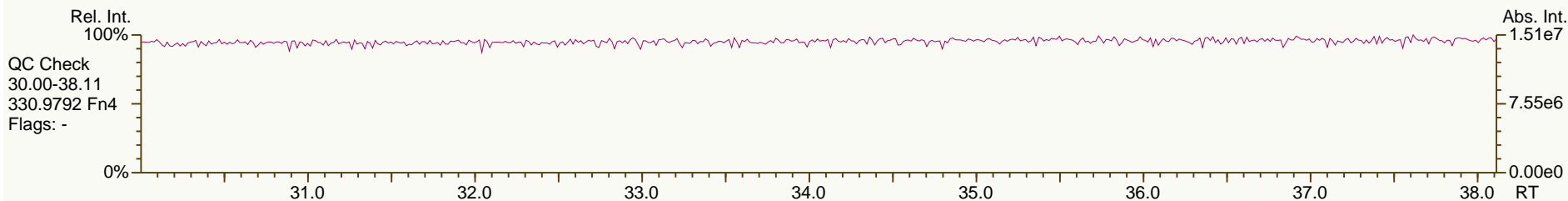
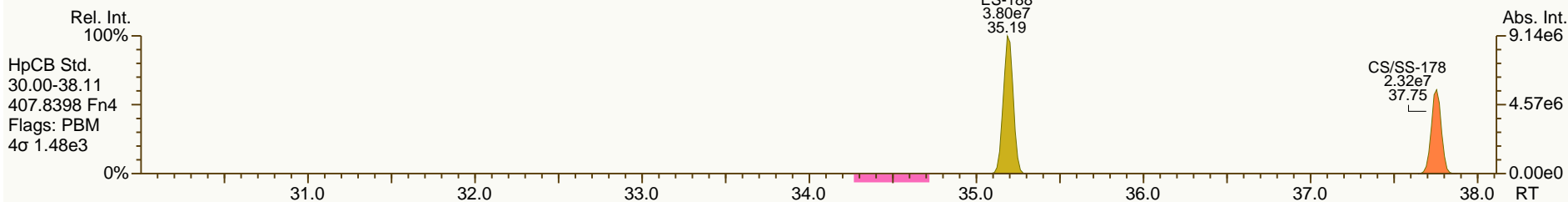
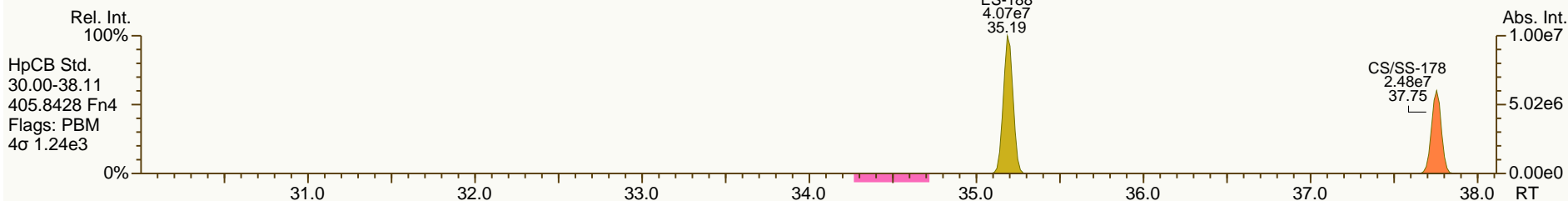
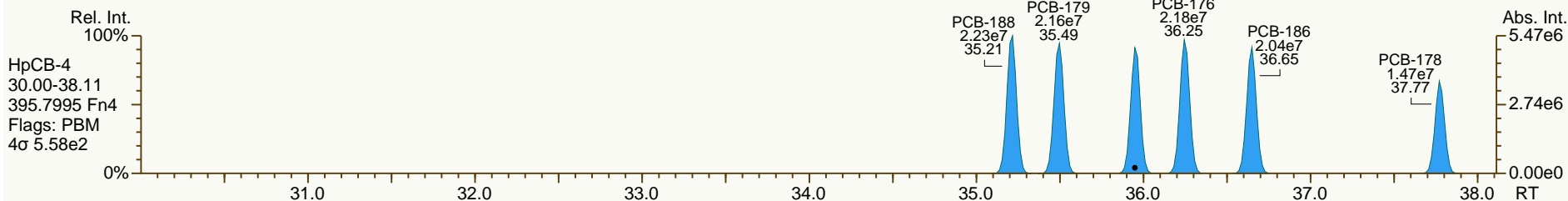
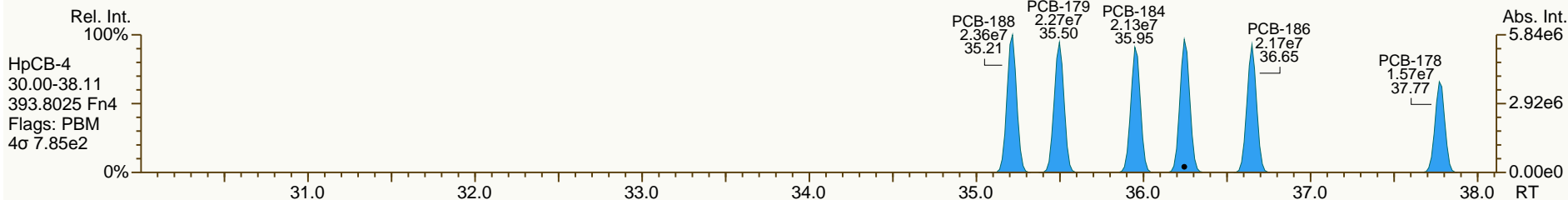
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SGS-AP ID: CS3\_140328\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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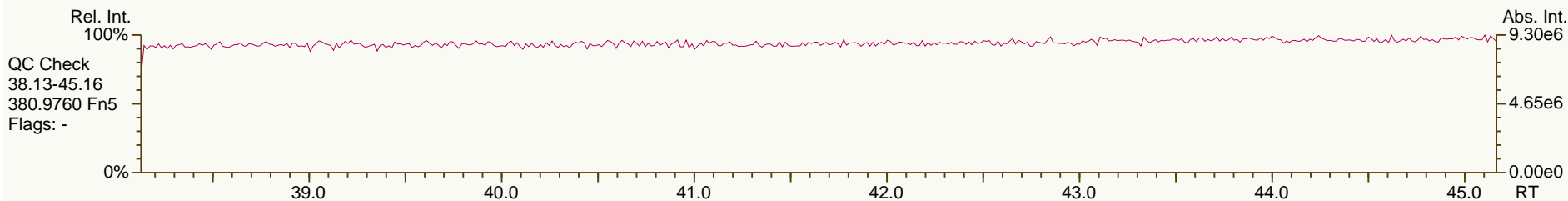
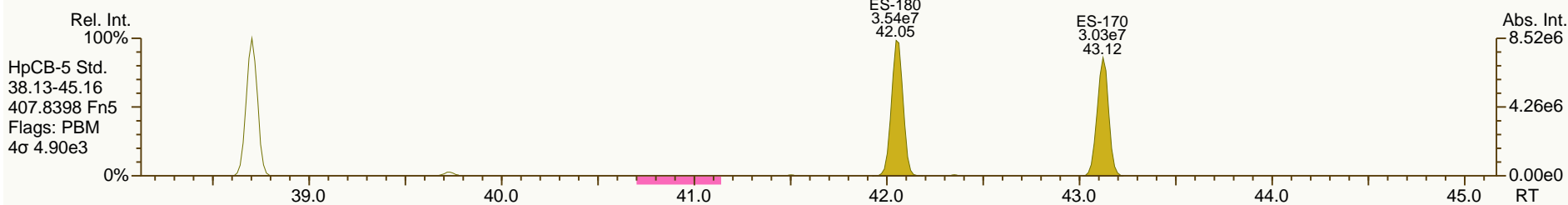
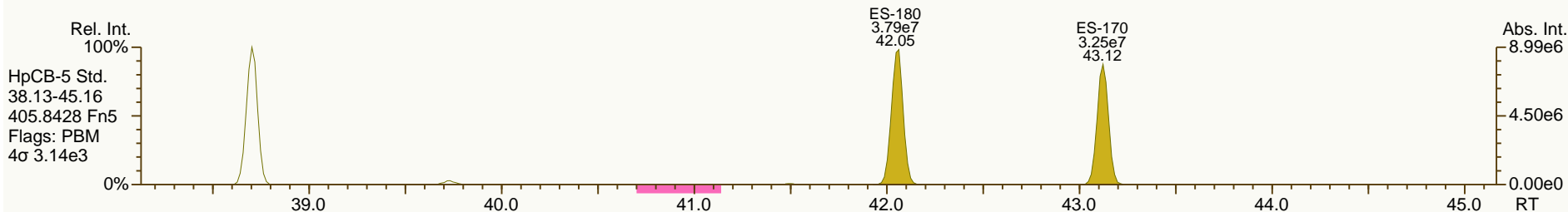
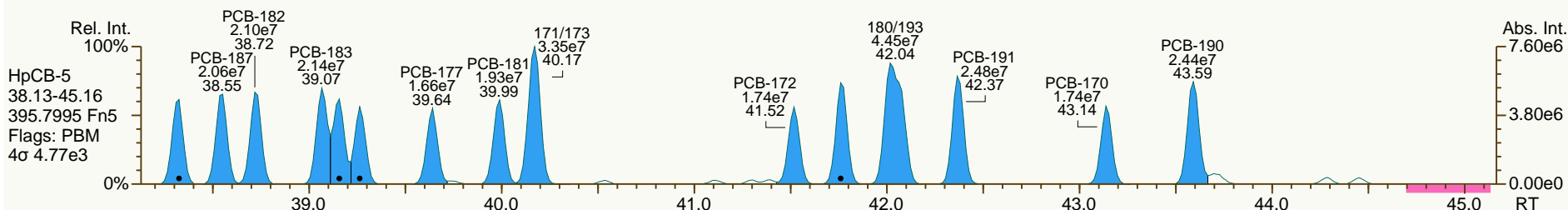
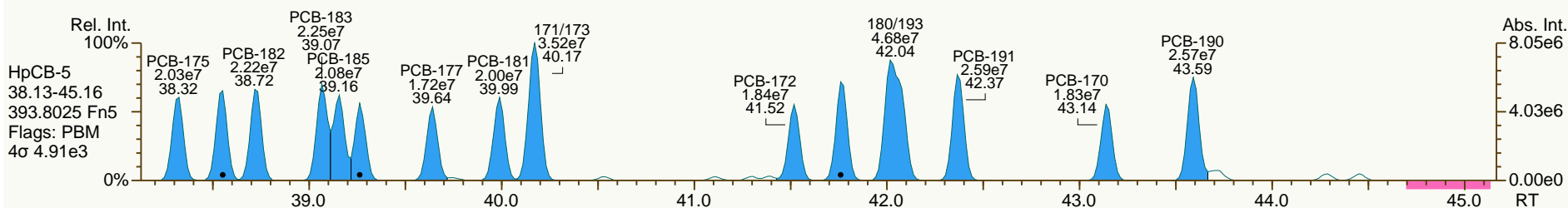
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

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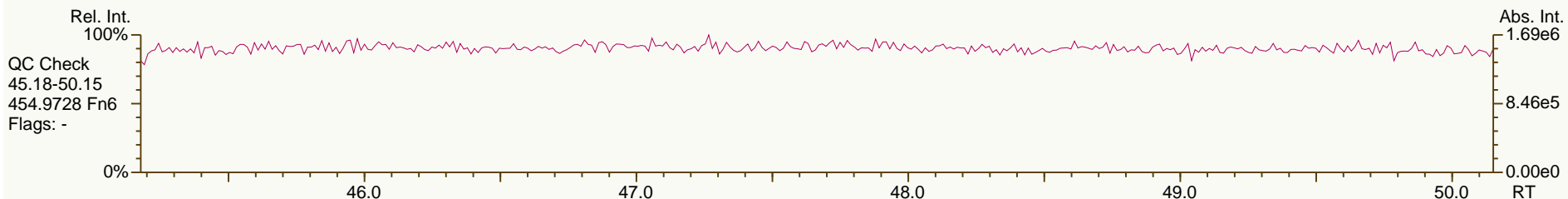
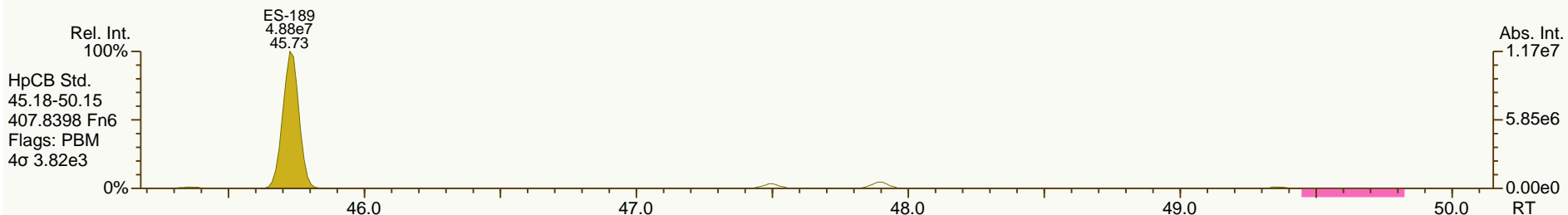
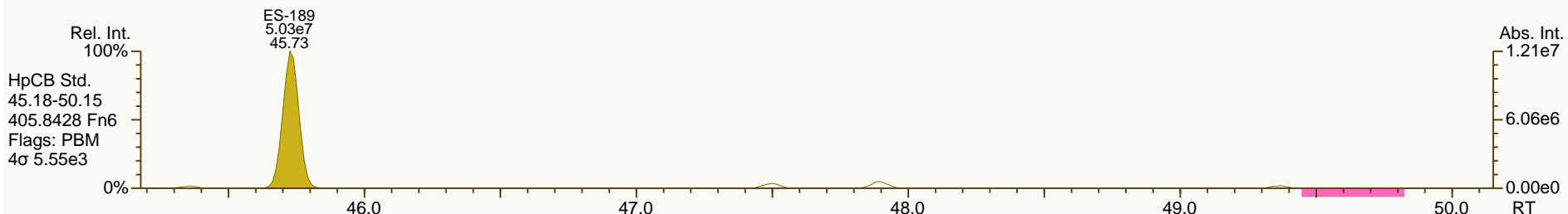
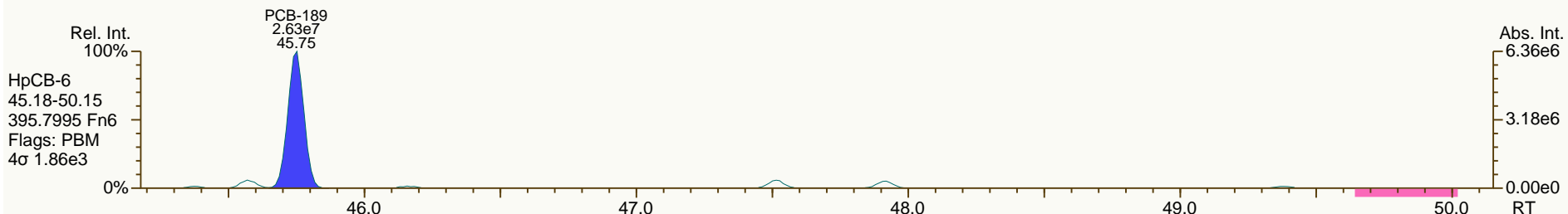
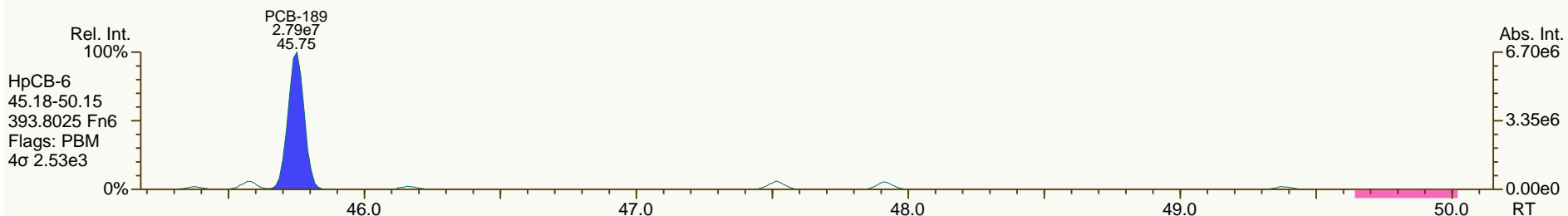




SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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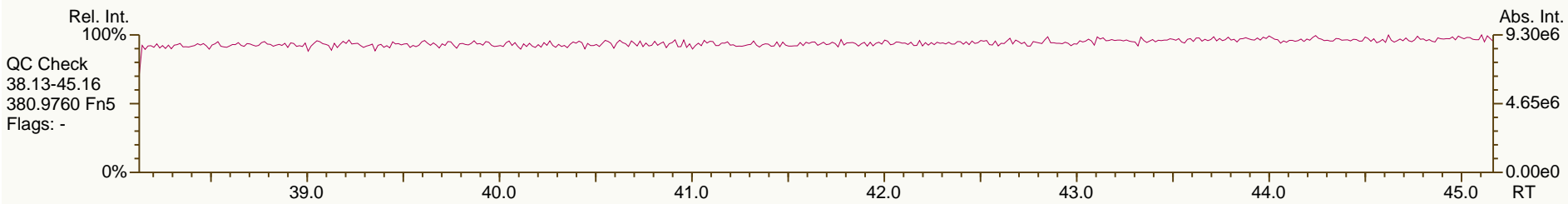
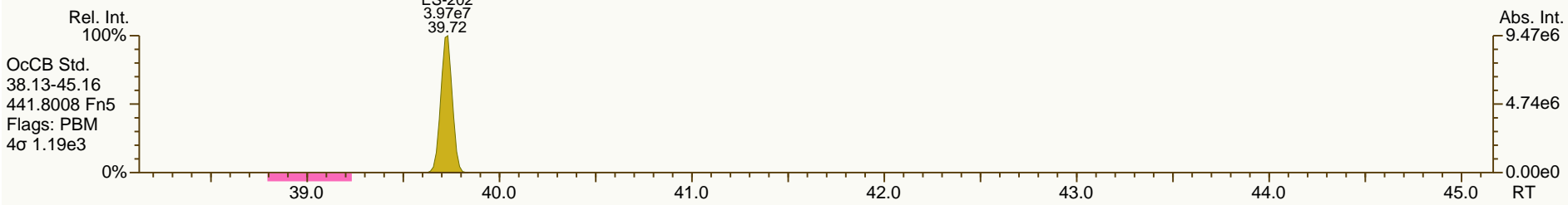
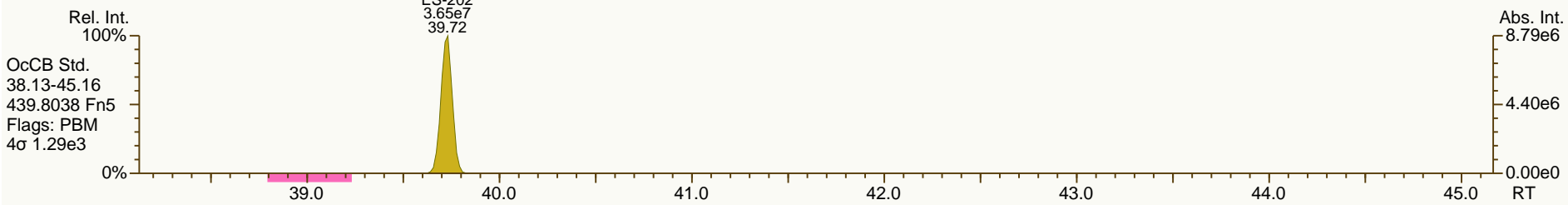
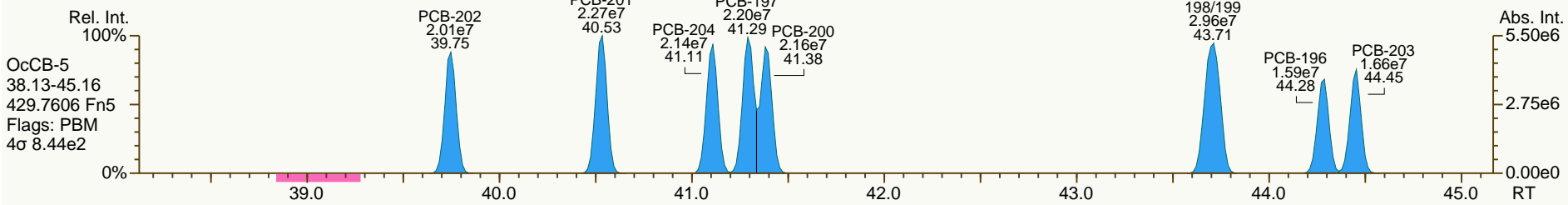
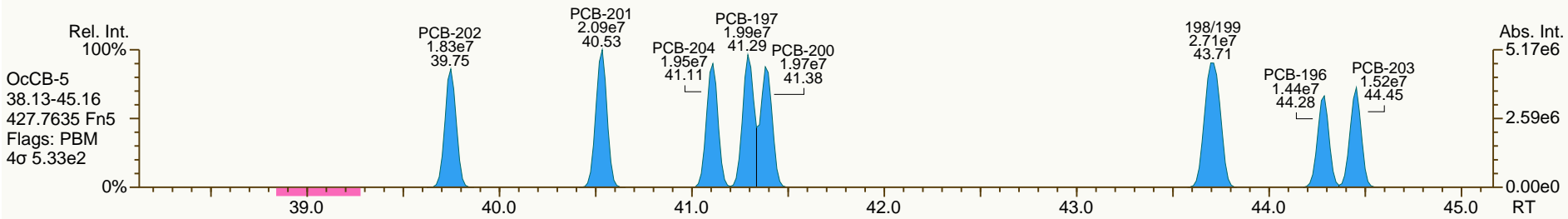
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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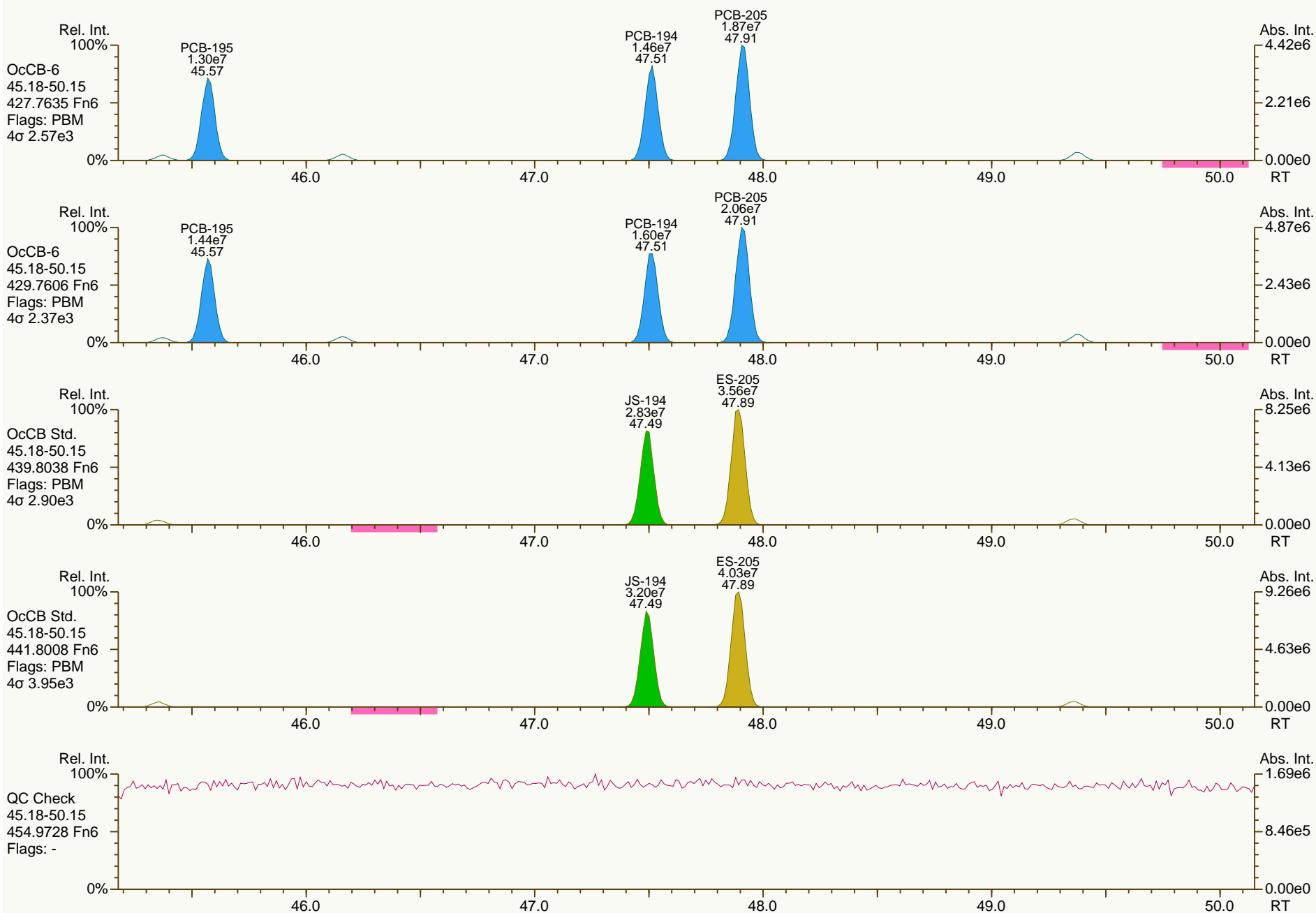
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SGS-AP ID: CS3\_140328\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

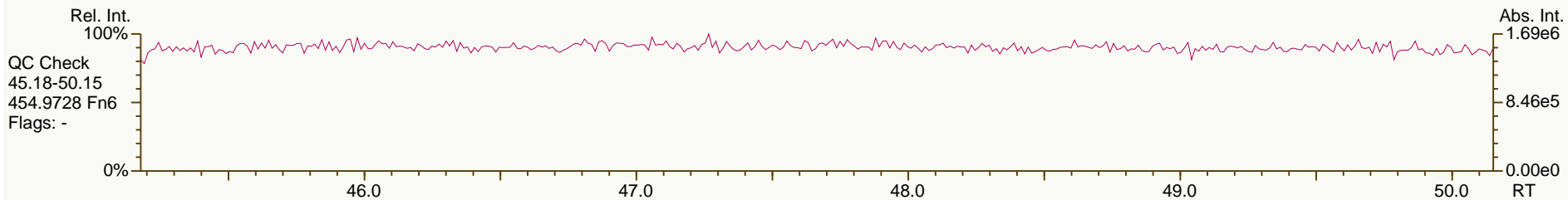
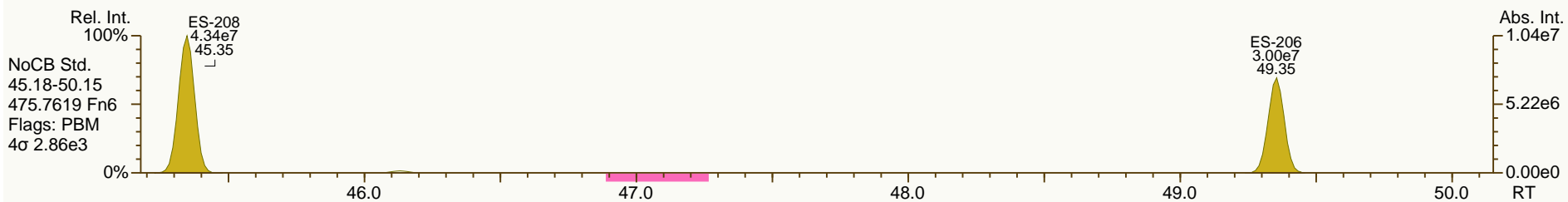
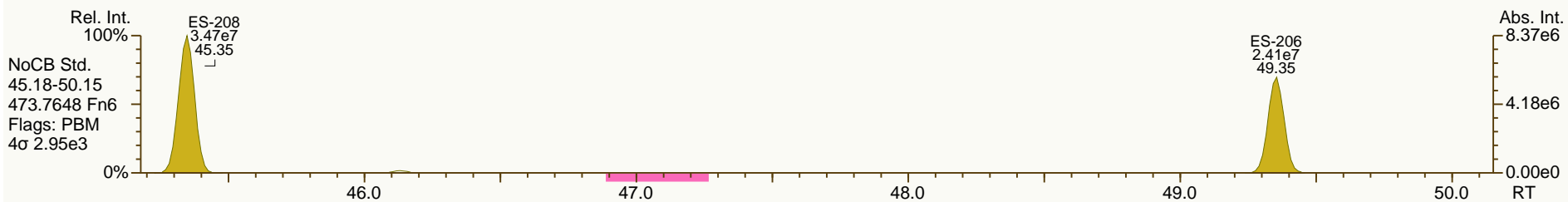
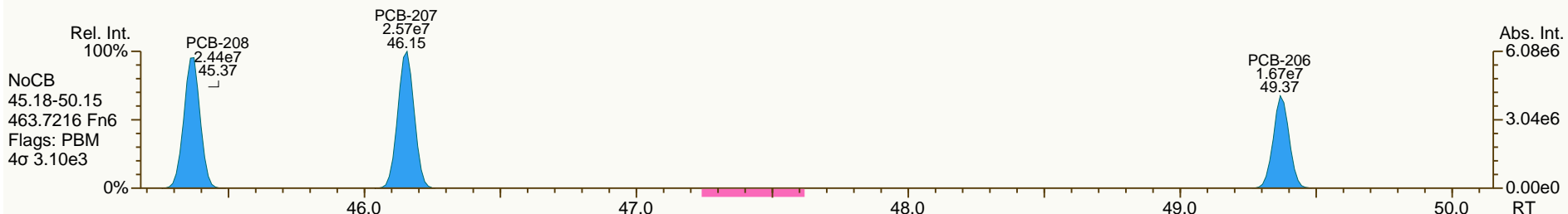
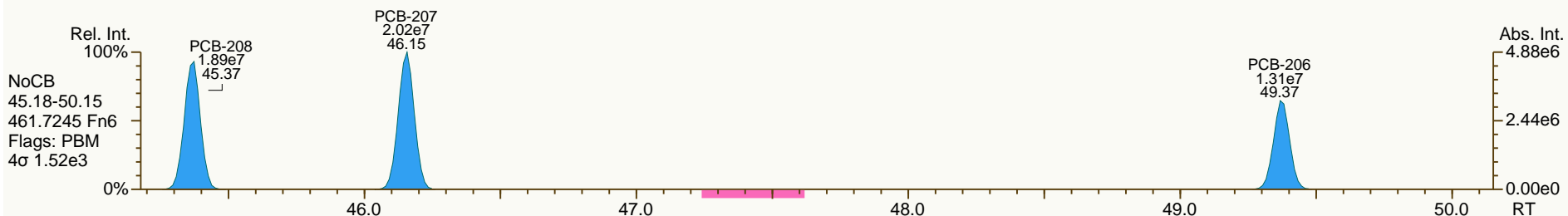
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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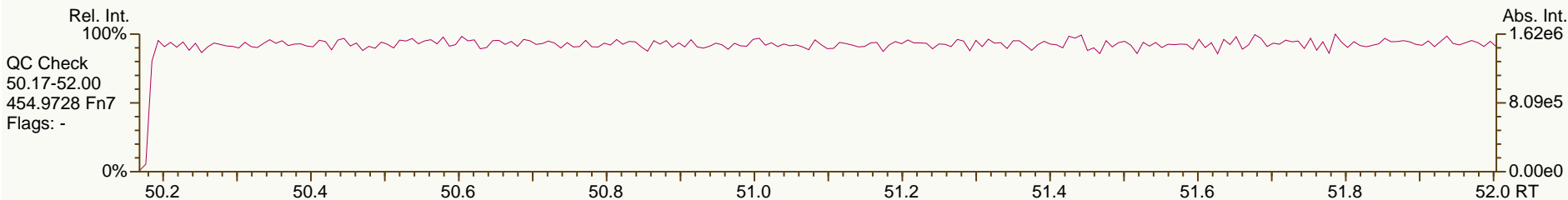
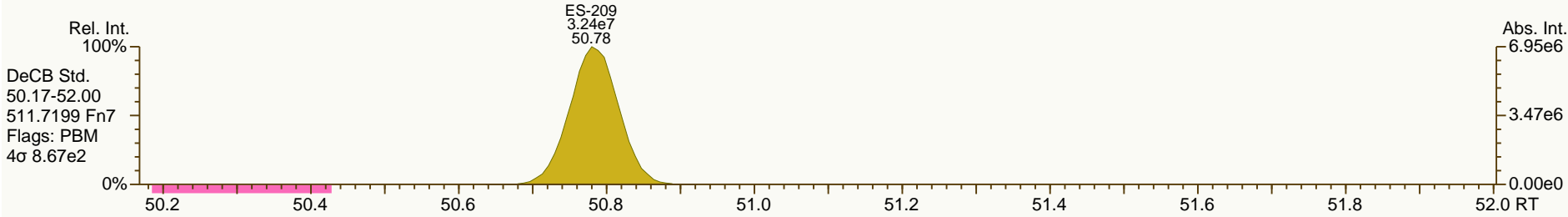
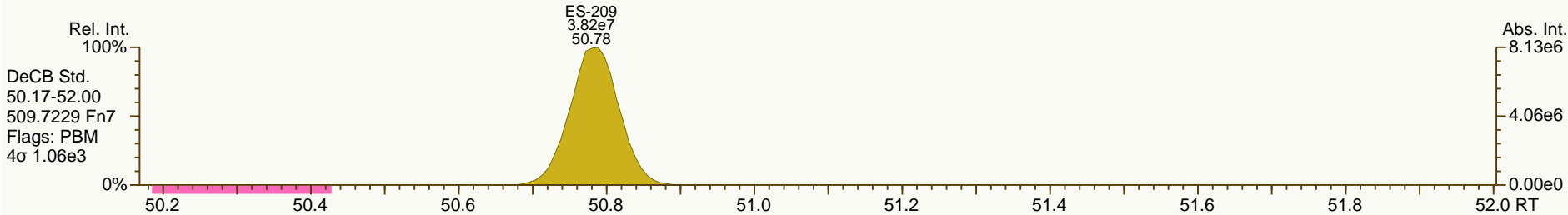
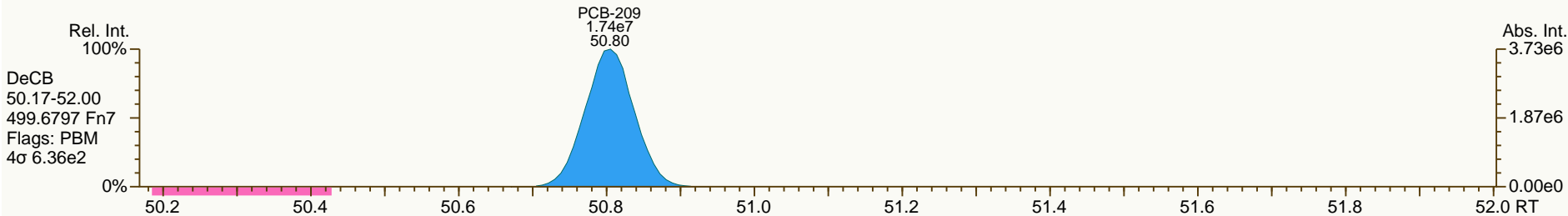
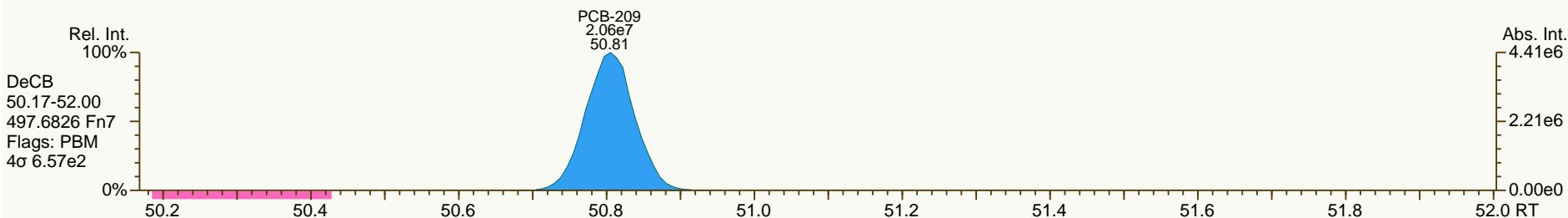
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SGS-AP ID: CS3\_140328\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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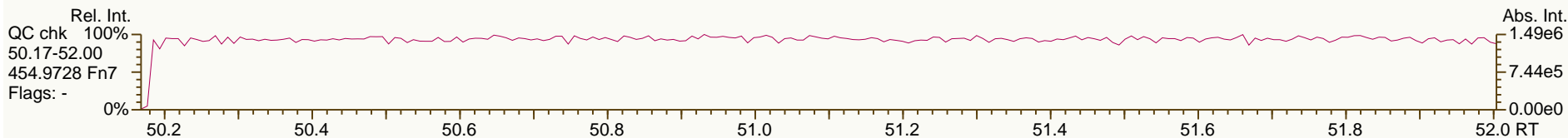
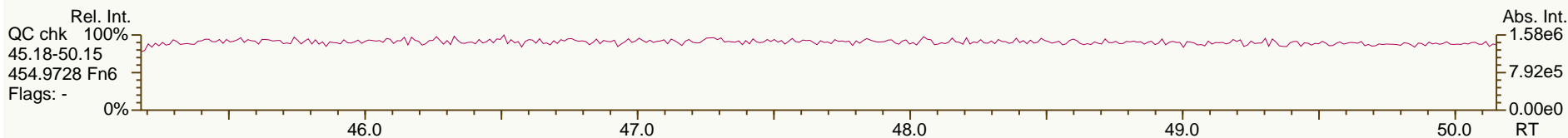
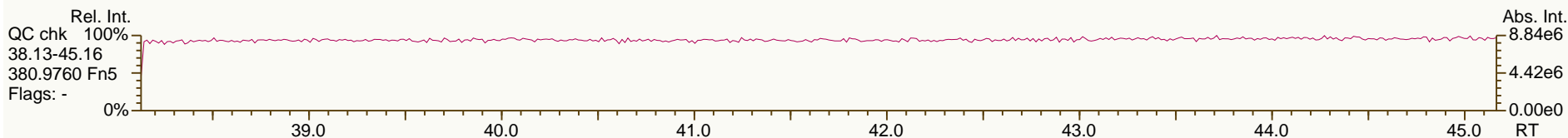
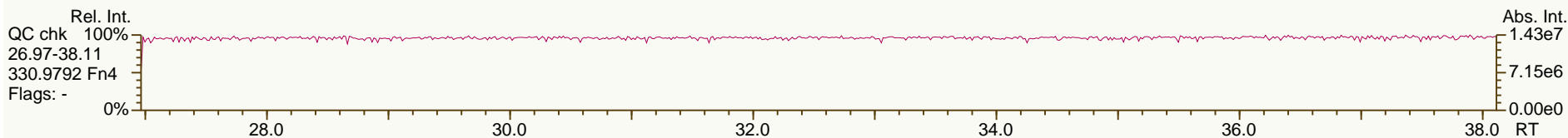
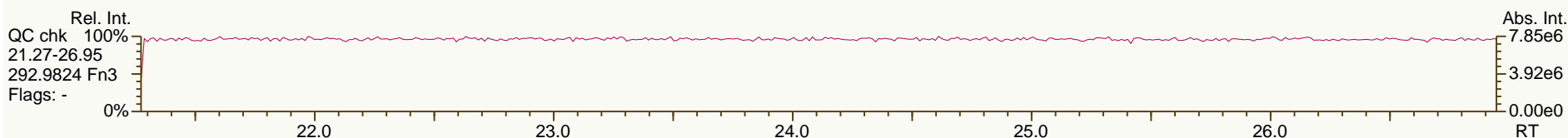
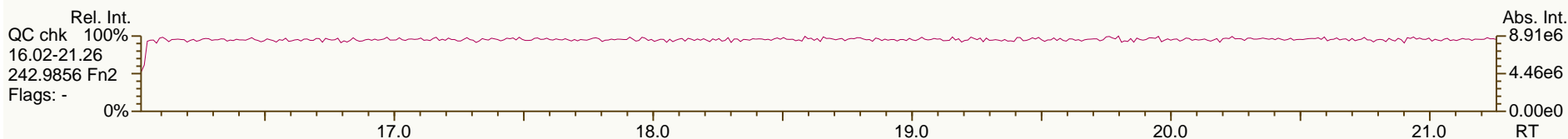
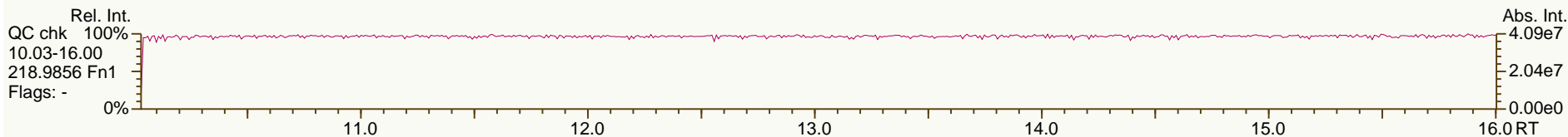
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SGS-AP ID: SBS\_140328\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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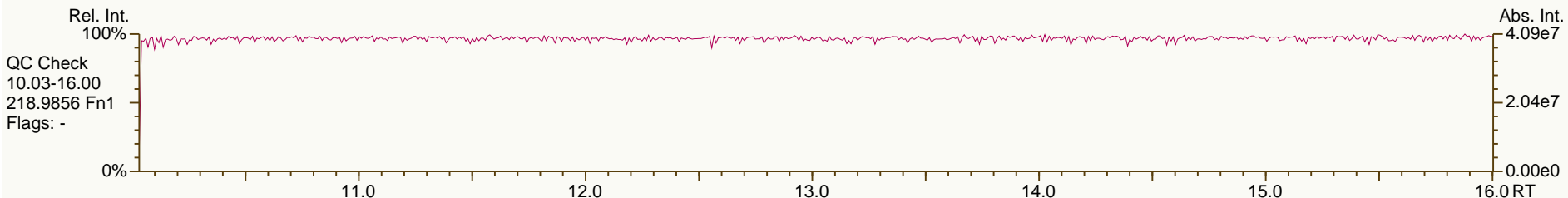
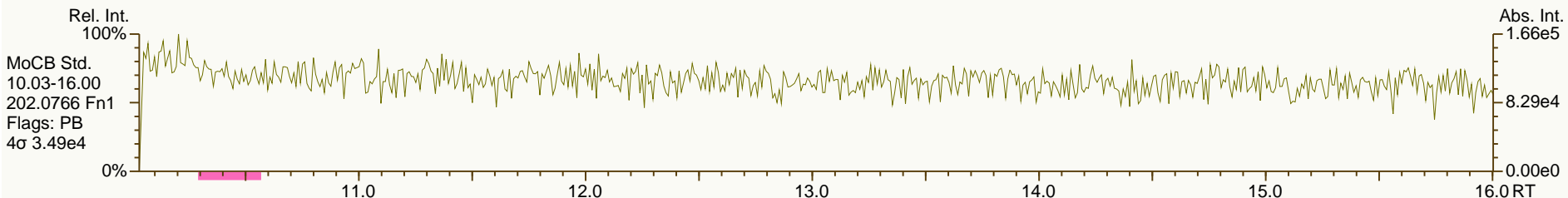
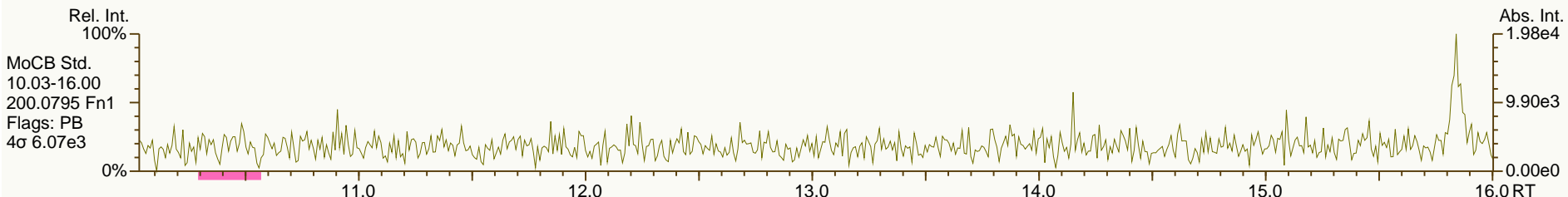
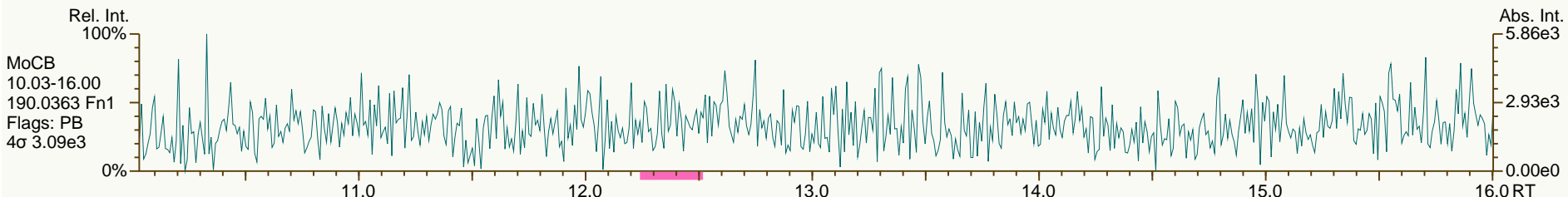
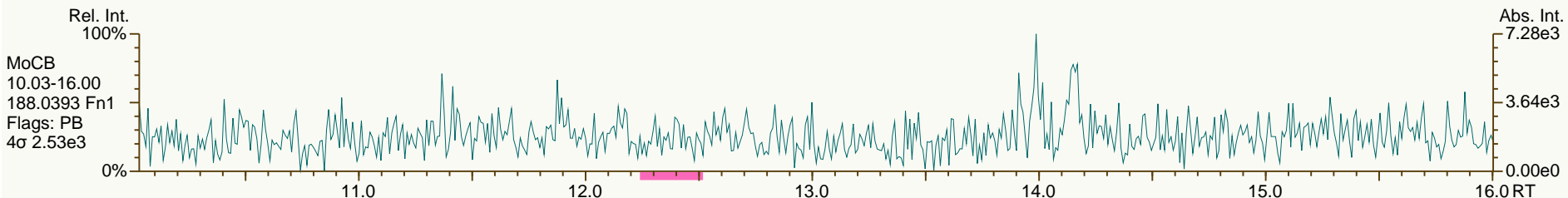
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SGS-AP ID: SBS\_140328\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

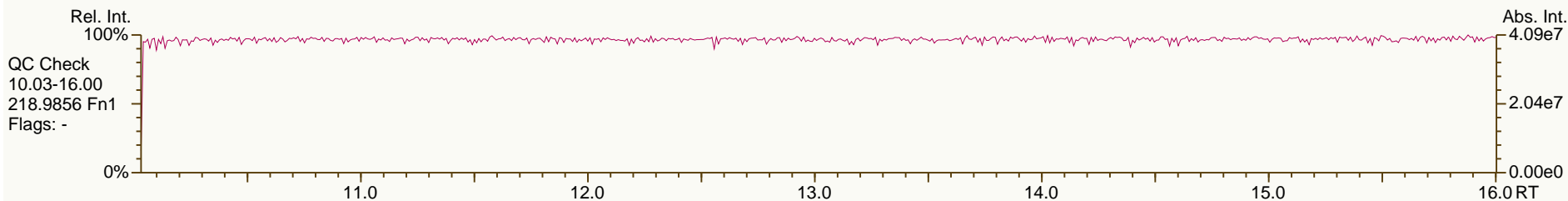
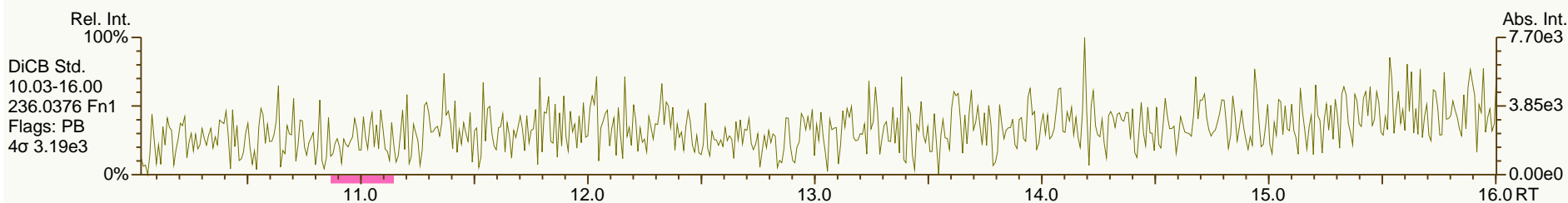
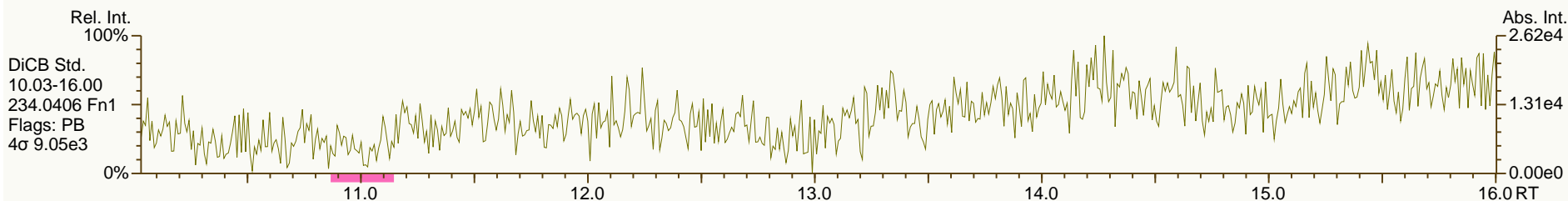
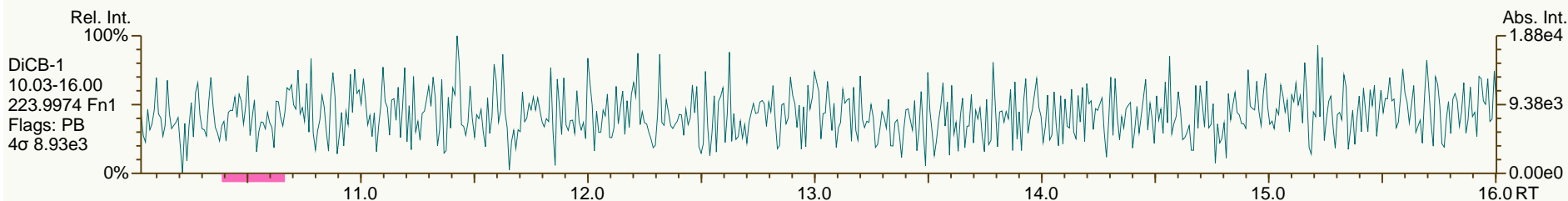
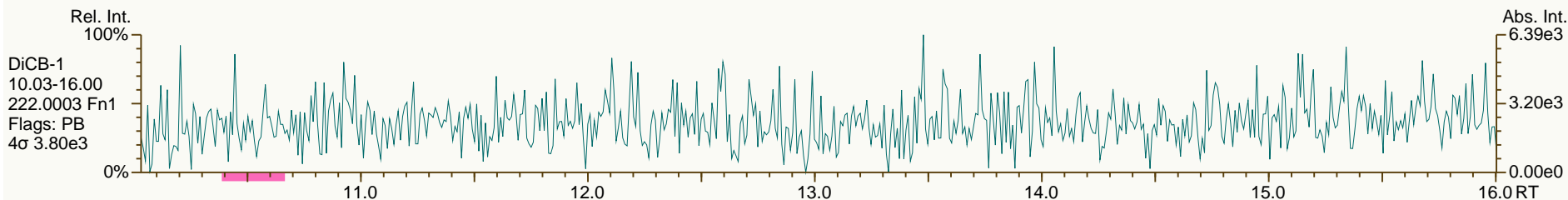
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SGS-AP ID: SBS\_140328\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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SGS-AP ID: SBS\_140328\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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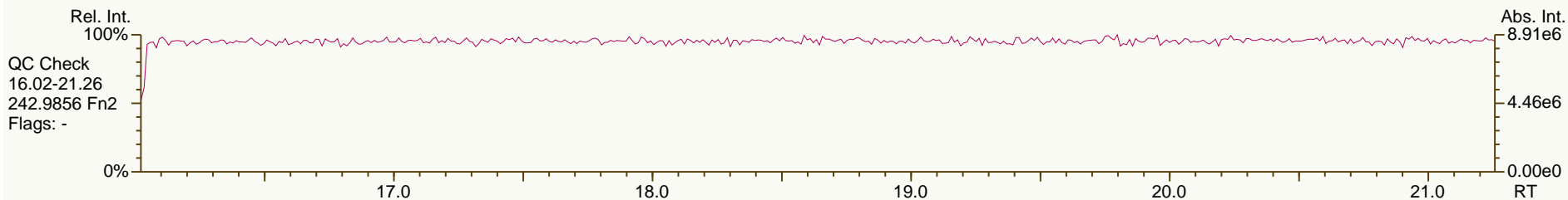
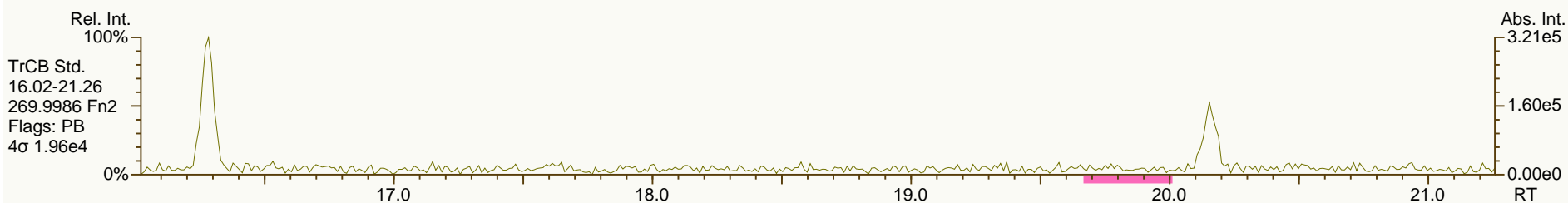
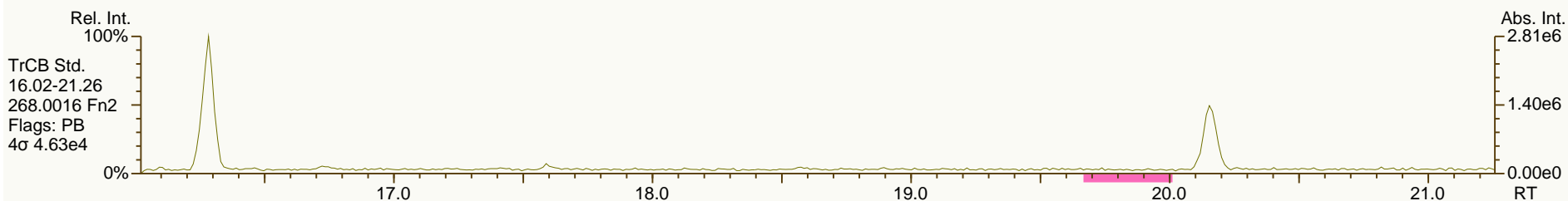
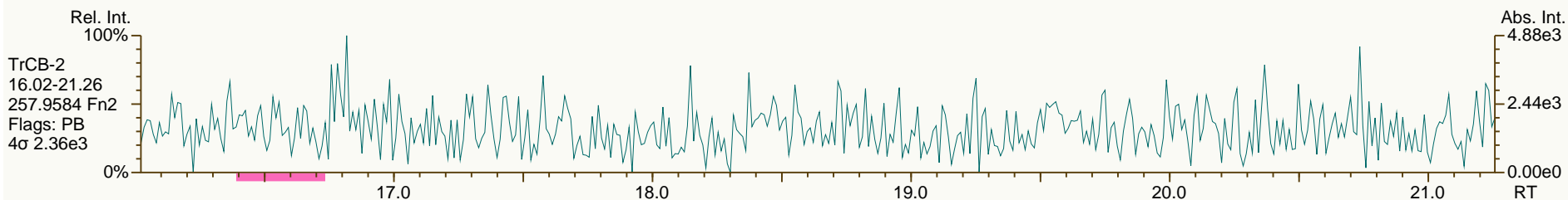
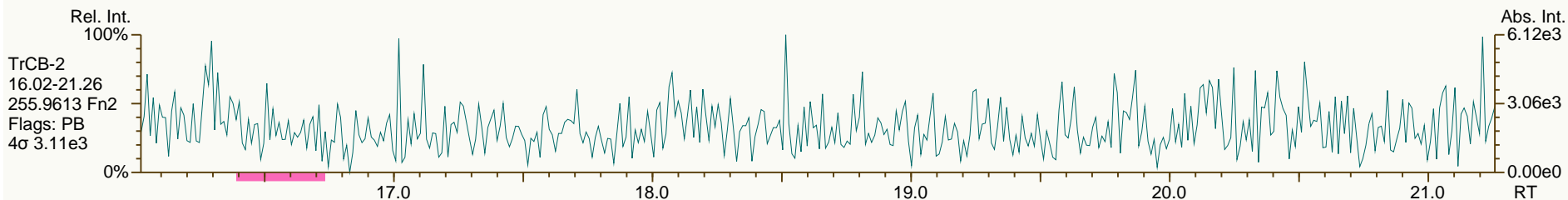
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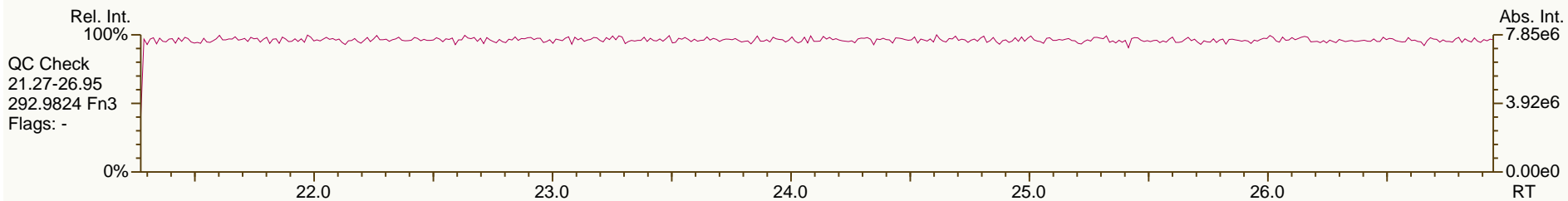
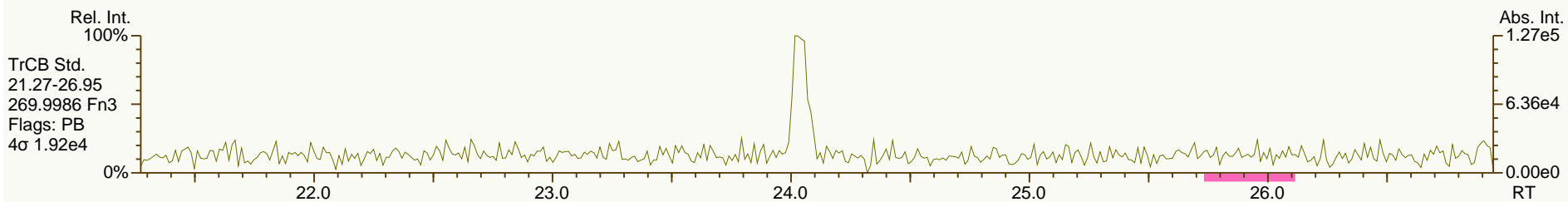
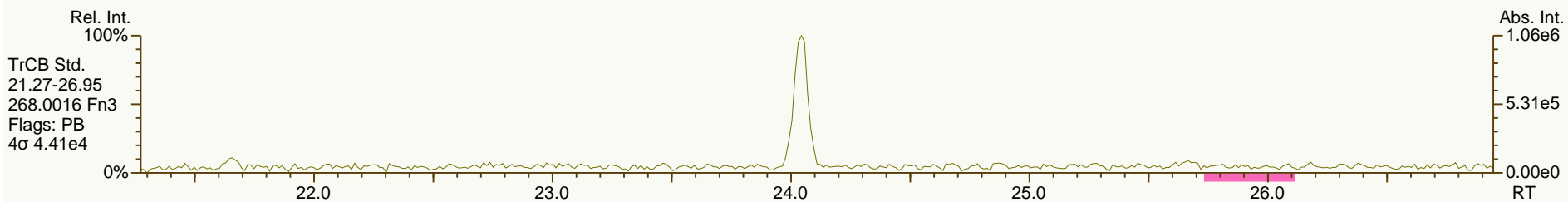
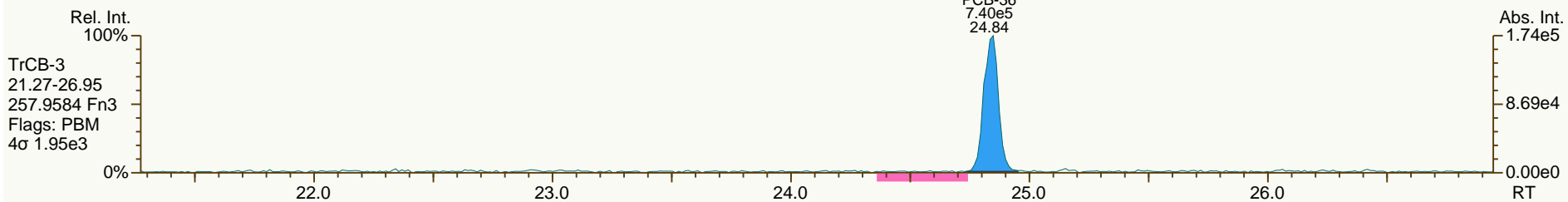
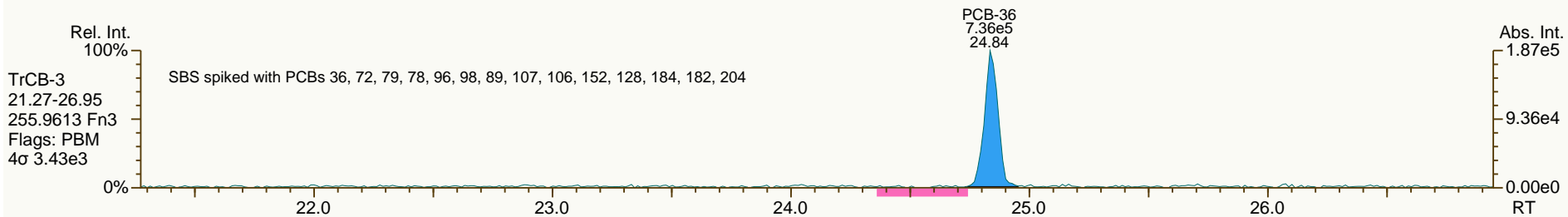
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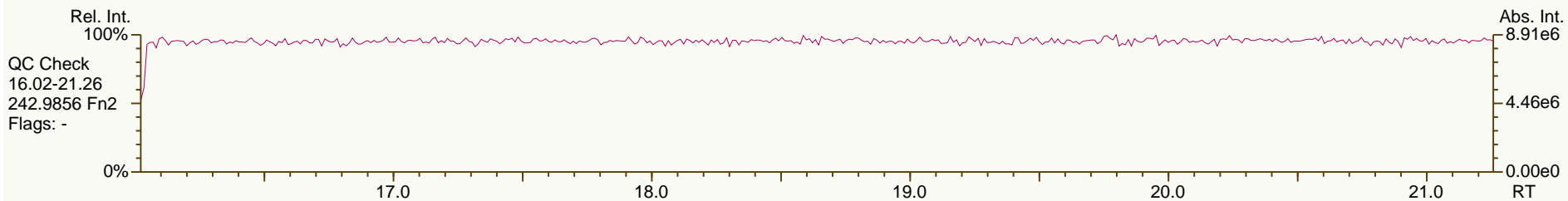
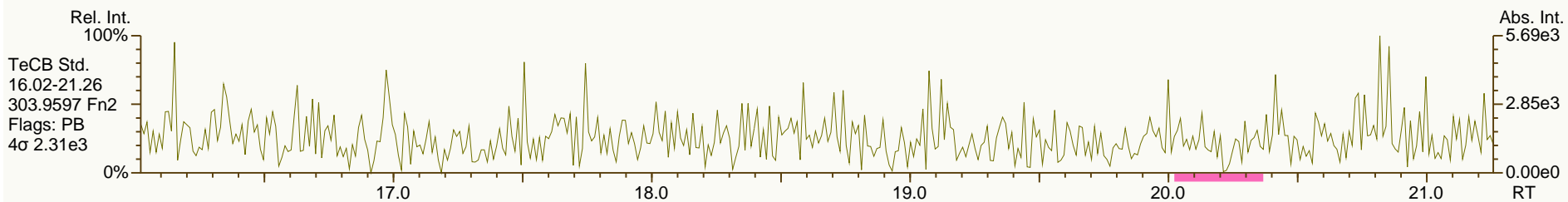
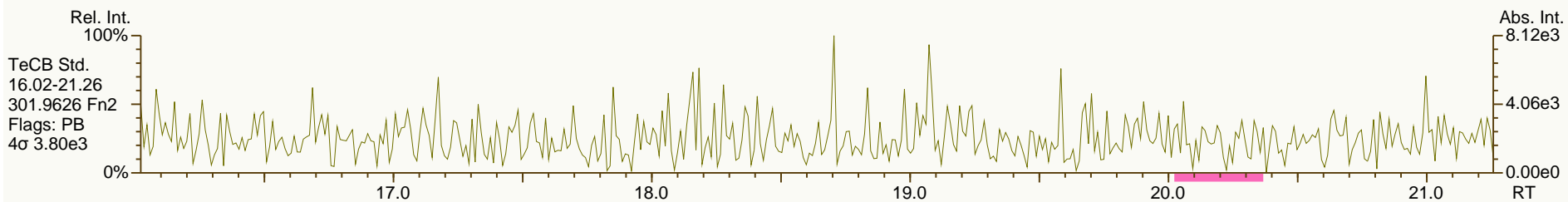
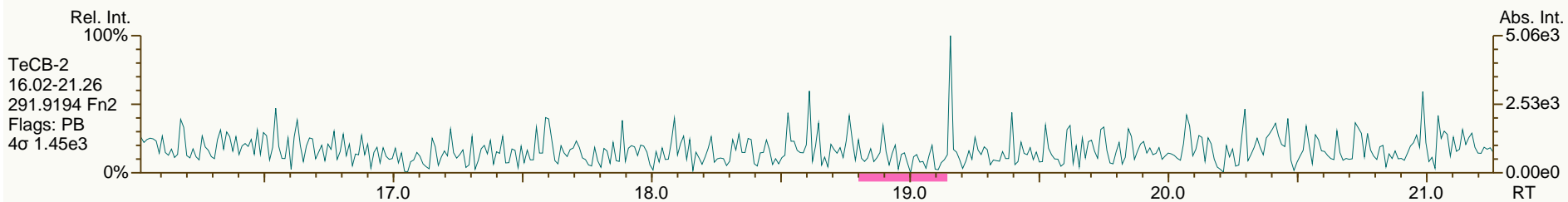
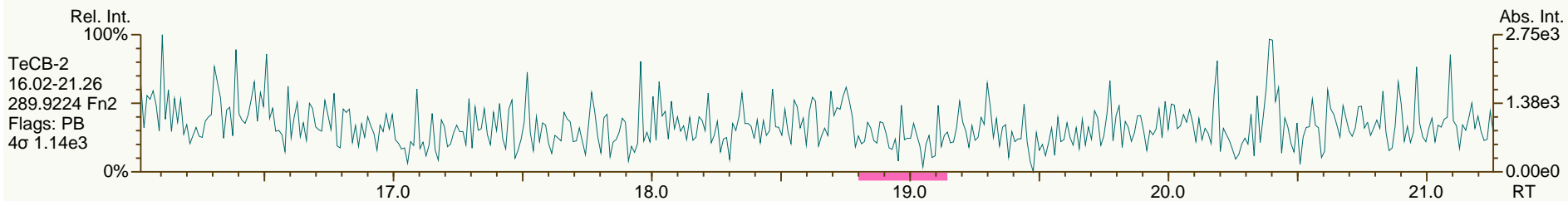
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SGS-AP ID: SBS\_140328\_PCB\_XC  
Instr: AutoSpec-Premier MM7

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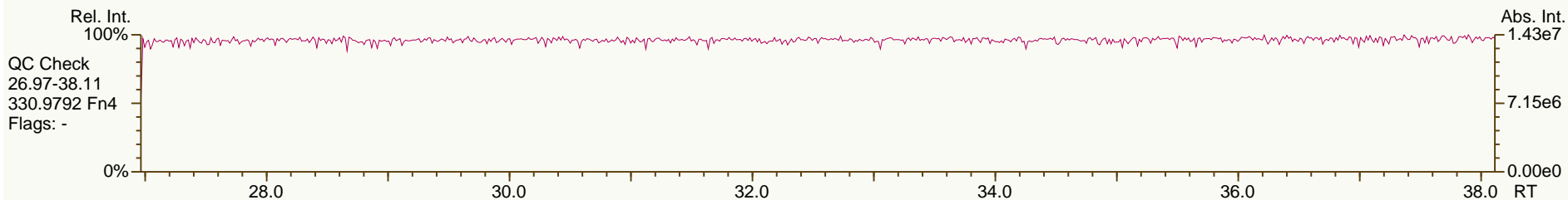
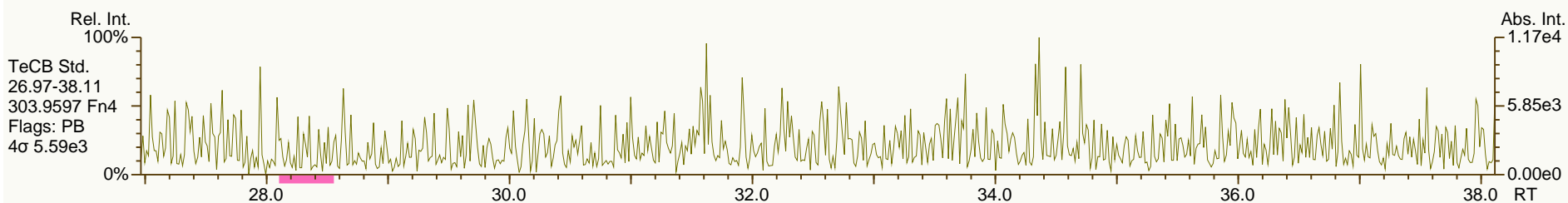
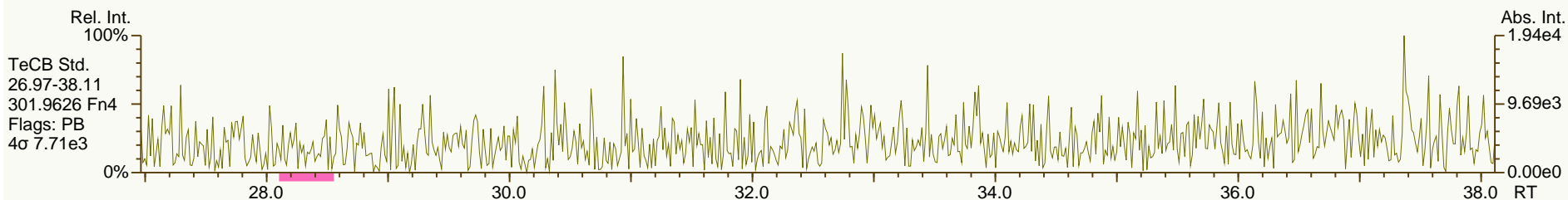
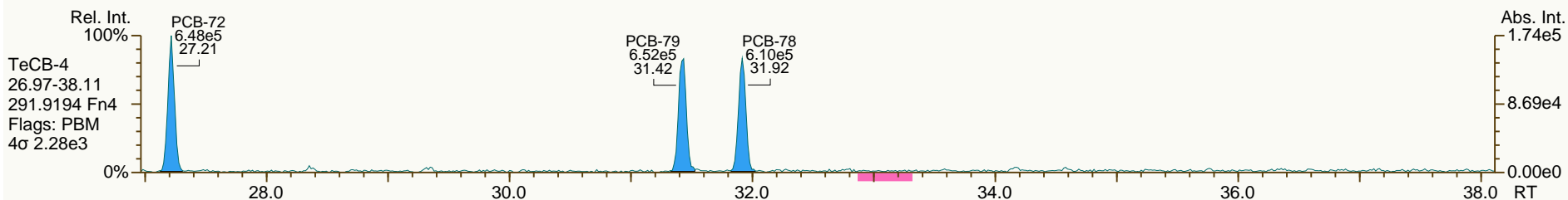
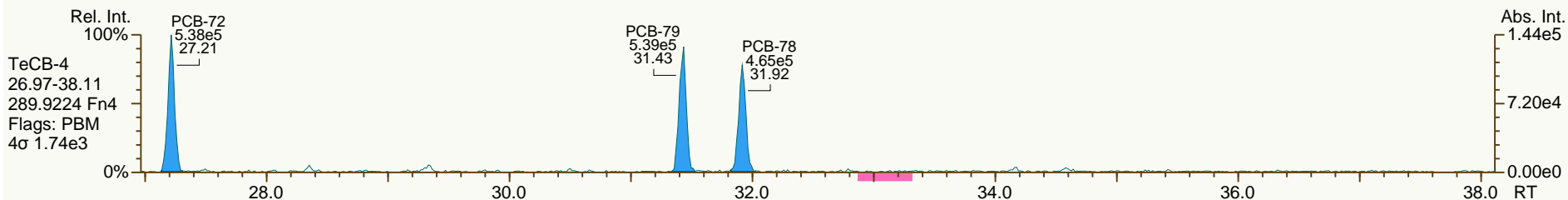
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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SGS-AP ID: SBS\_140328\_PCB\_XC  
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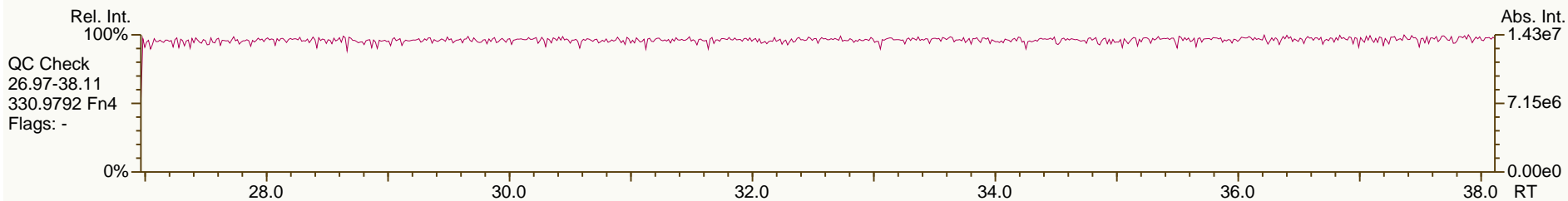
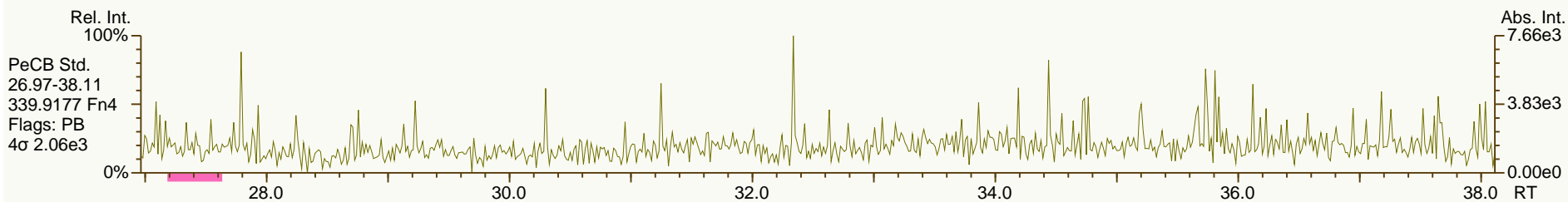
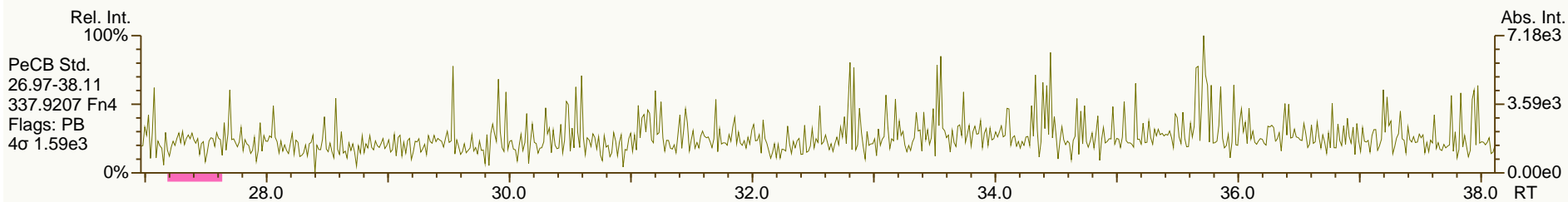
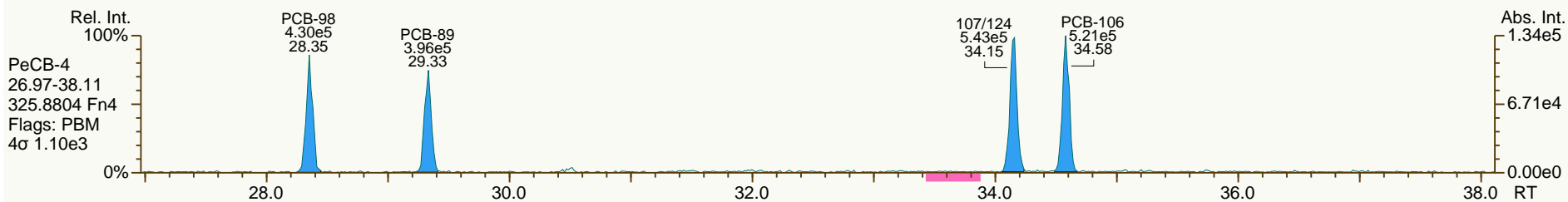
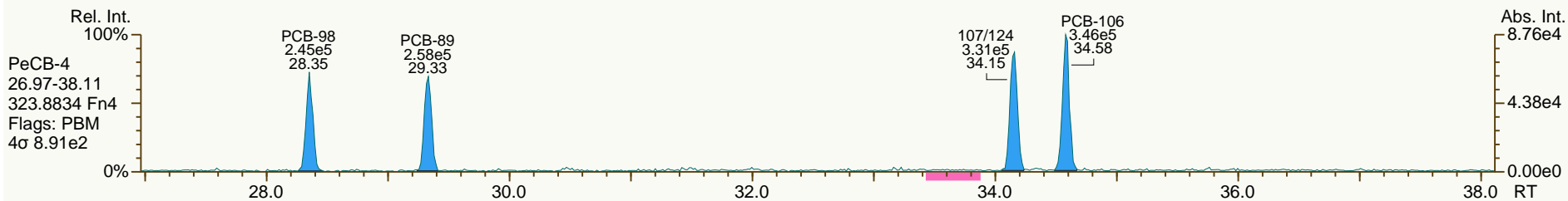
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Sample ID: SIL 13-42-1  
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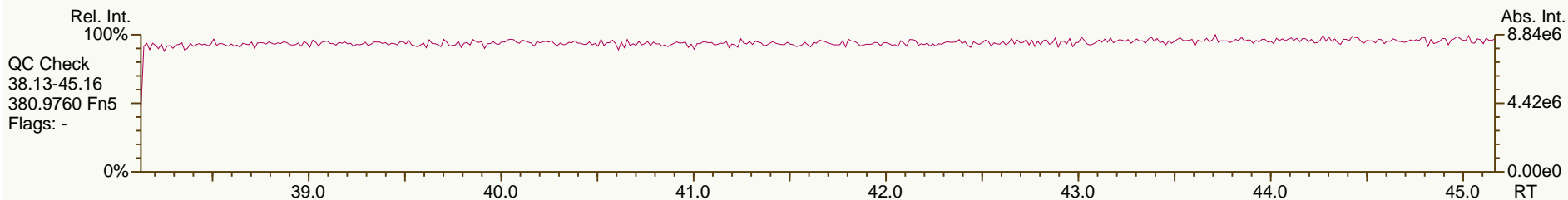
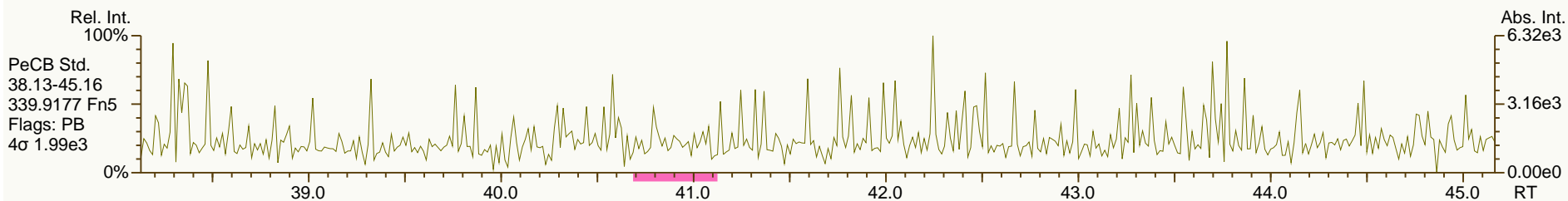
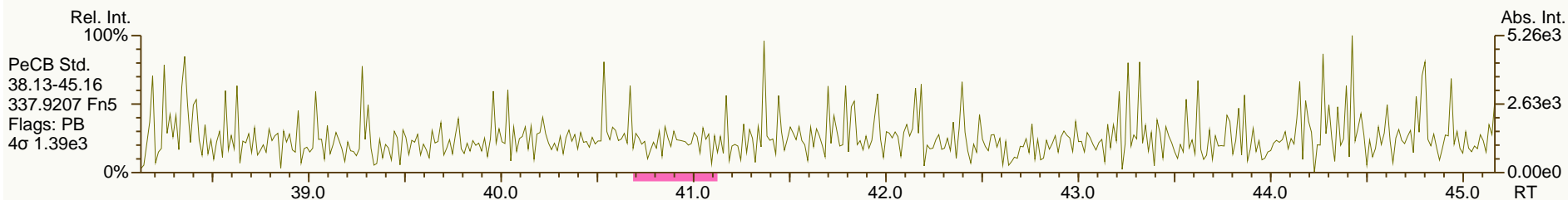
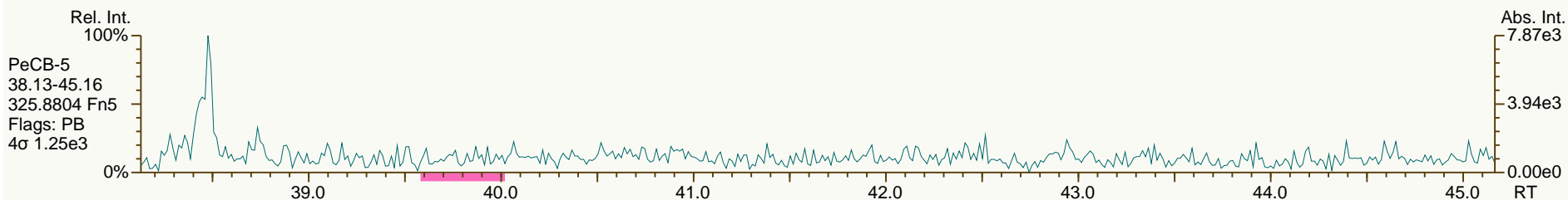
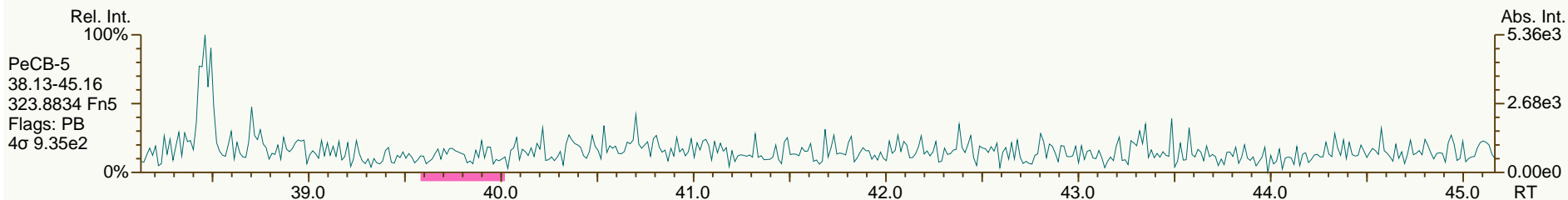




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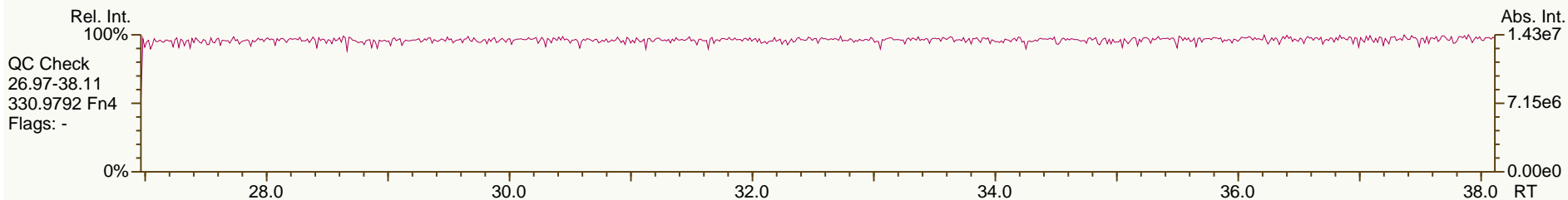
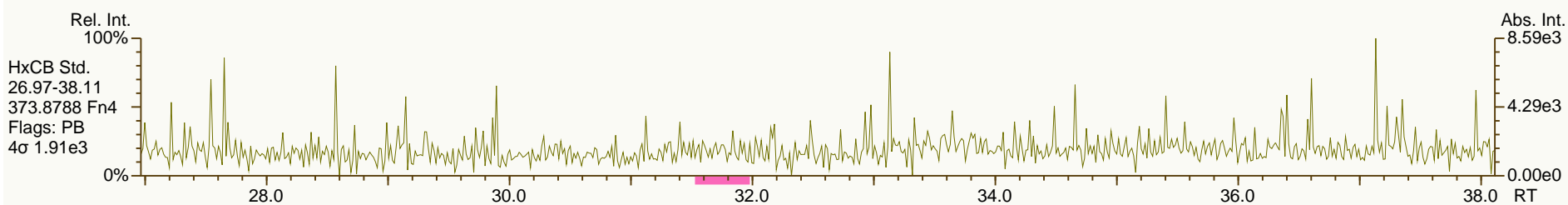
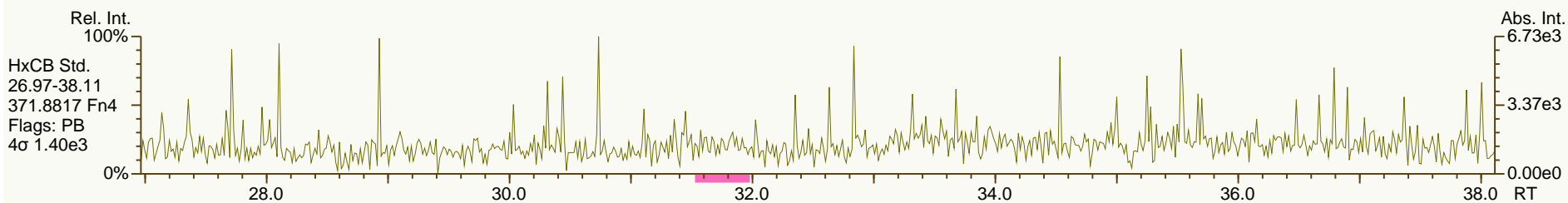
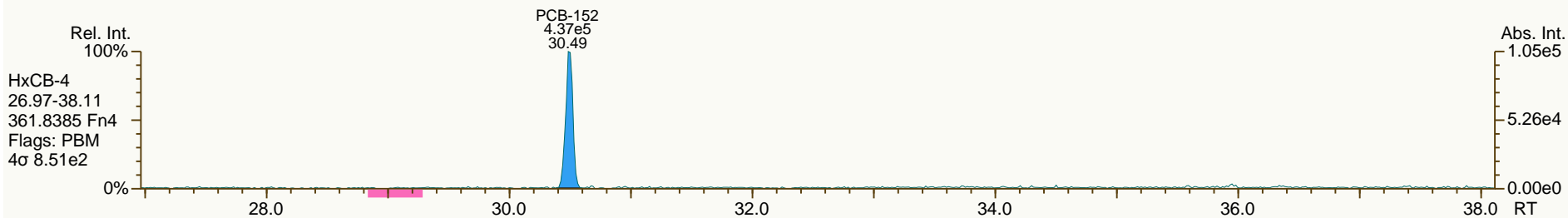
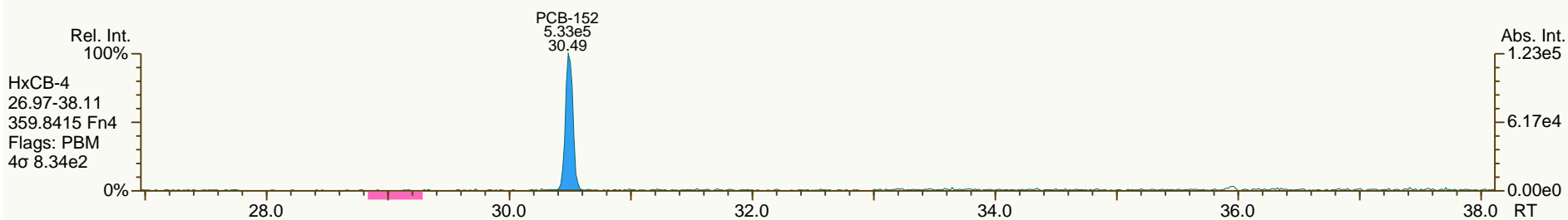
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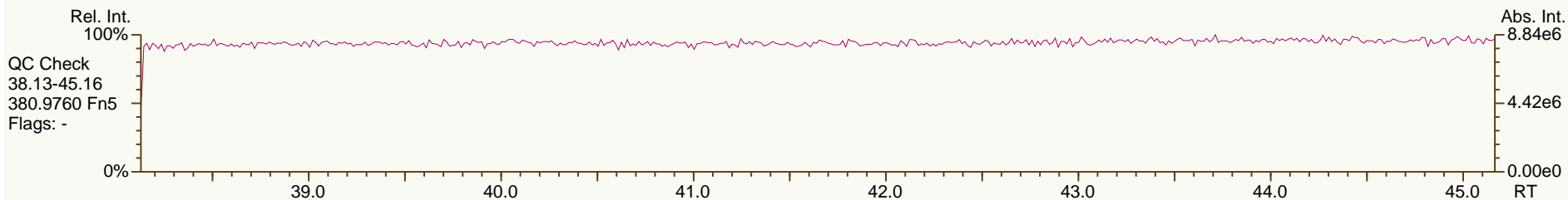
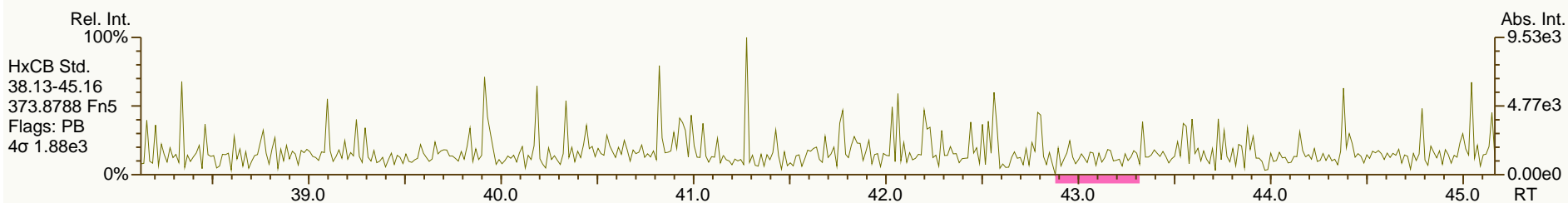
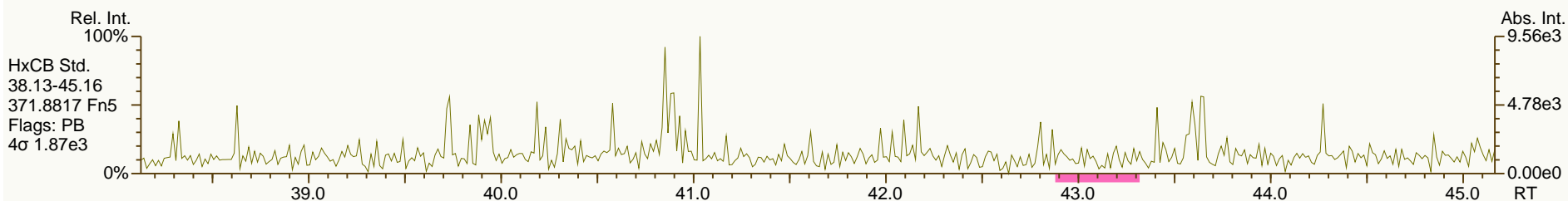
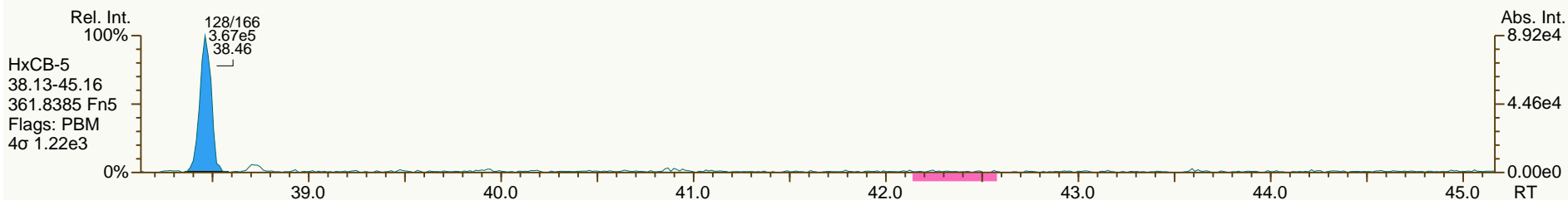
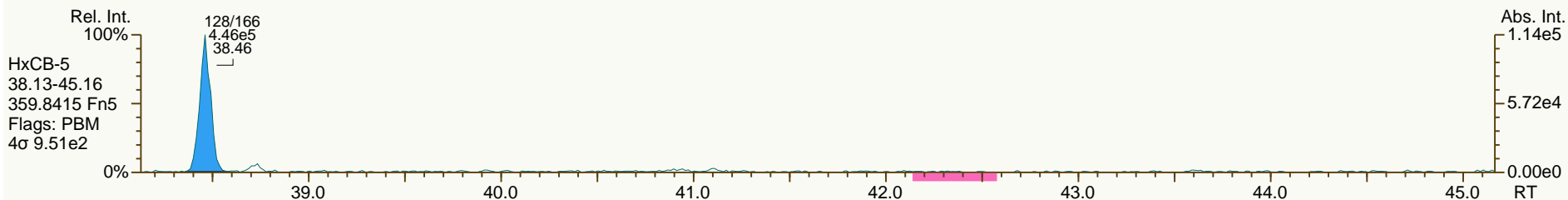
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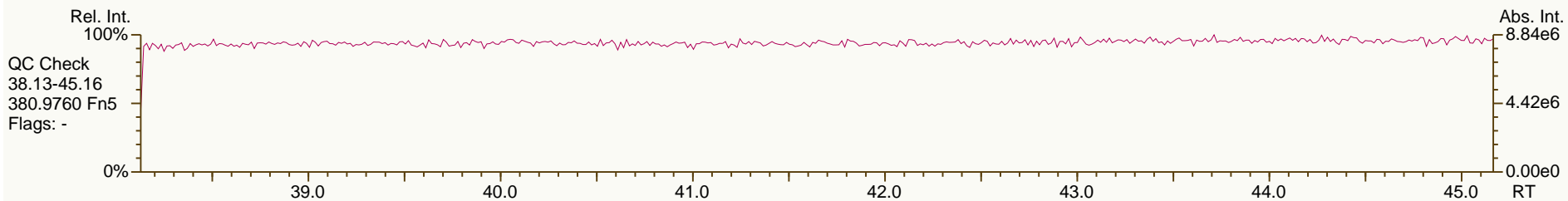
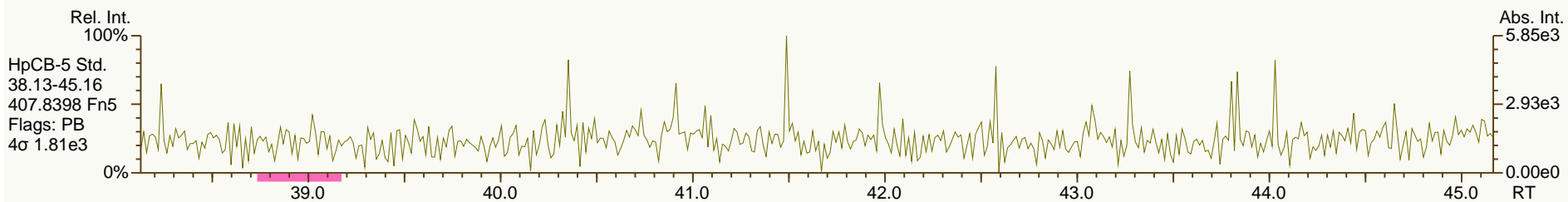
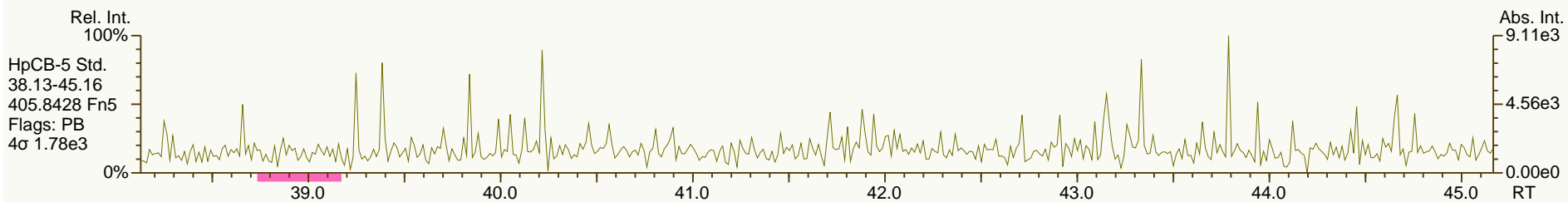
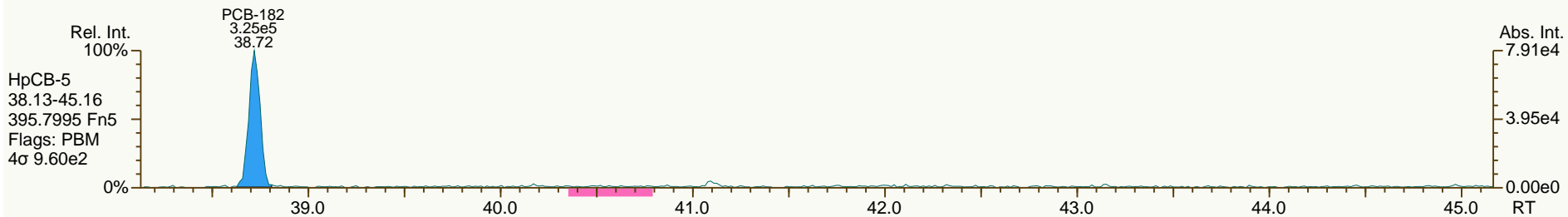
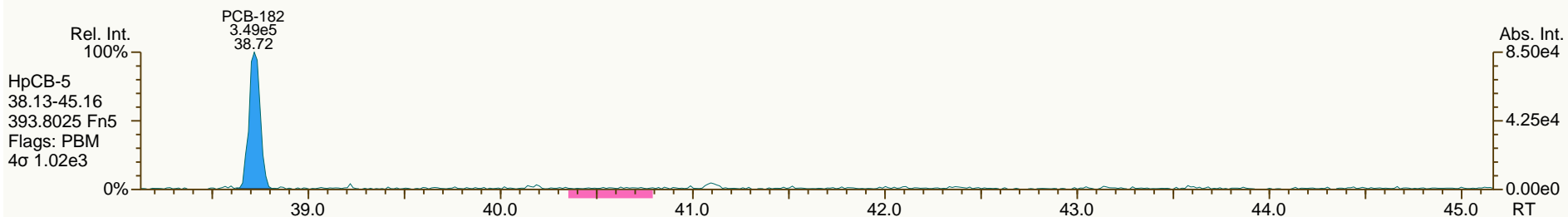
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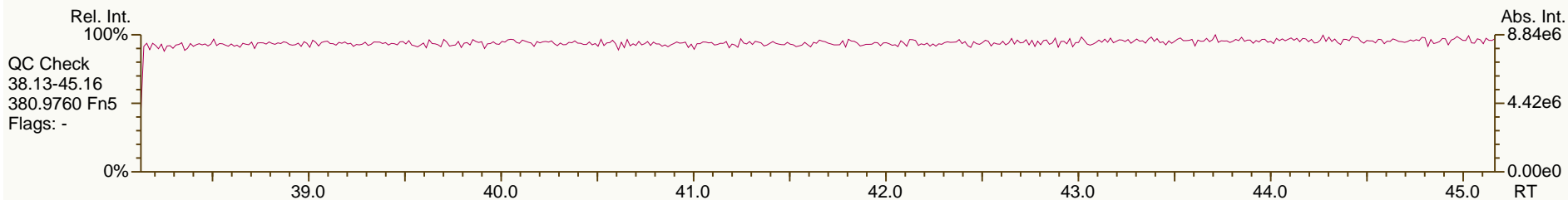
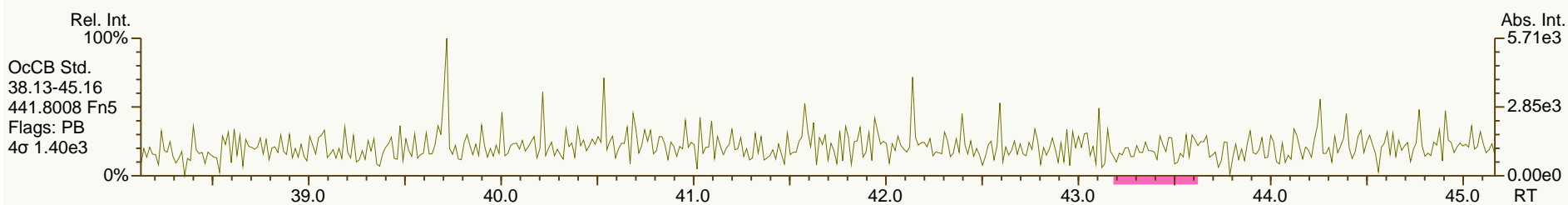
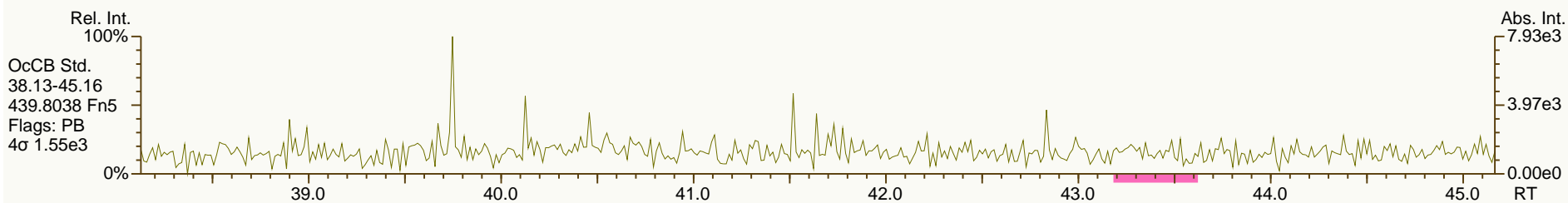
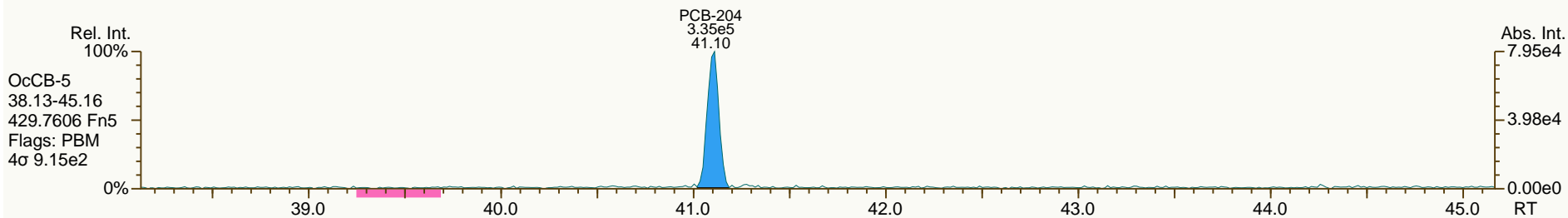
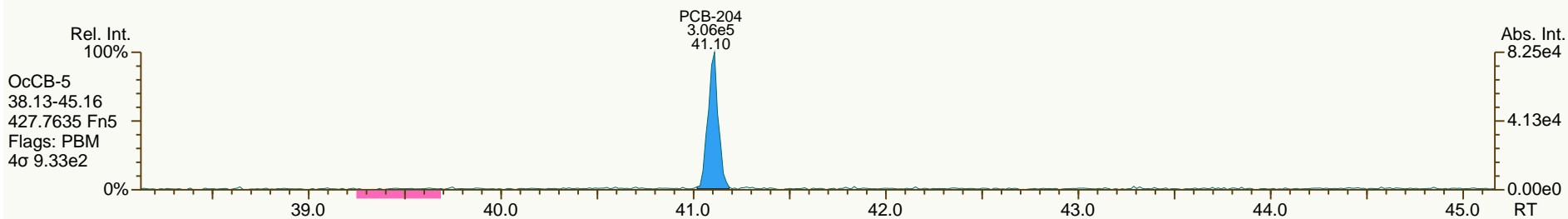
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SGS-AP ID: SBS\_140328\_PCB\_XC  
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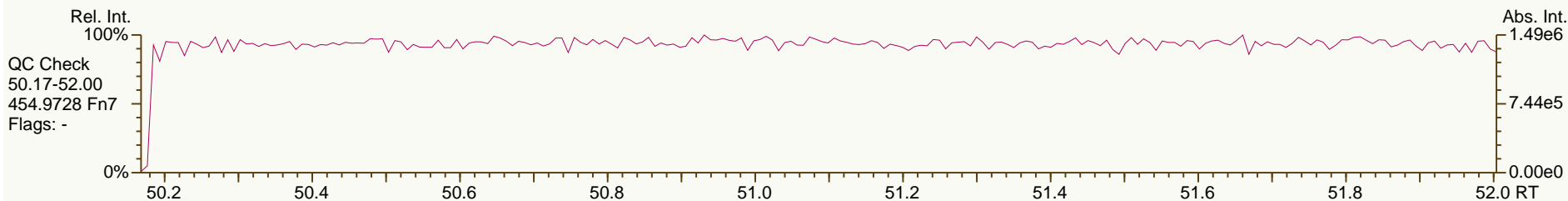
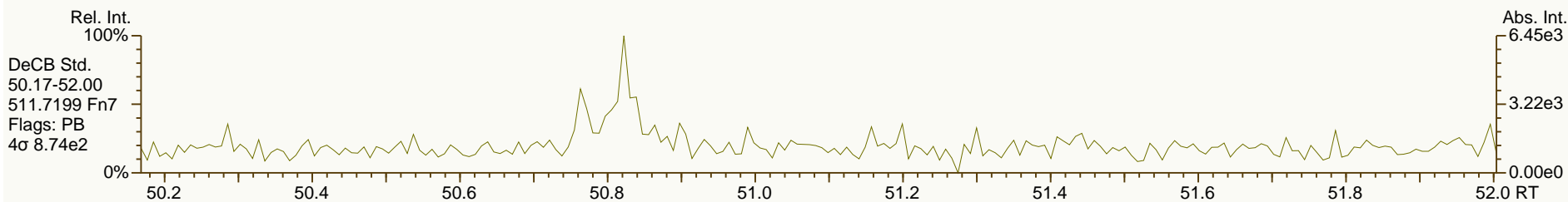
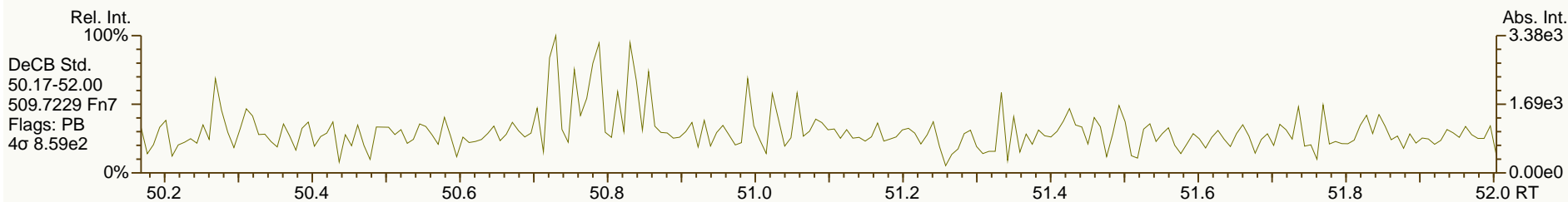
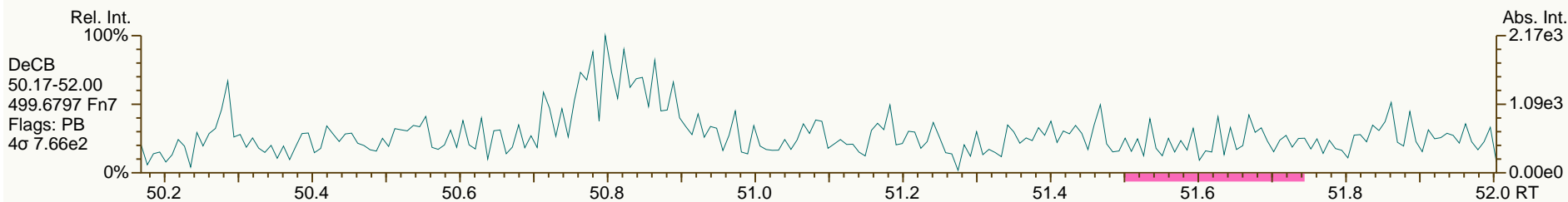
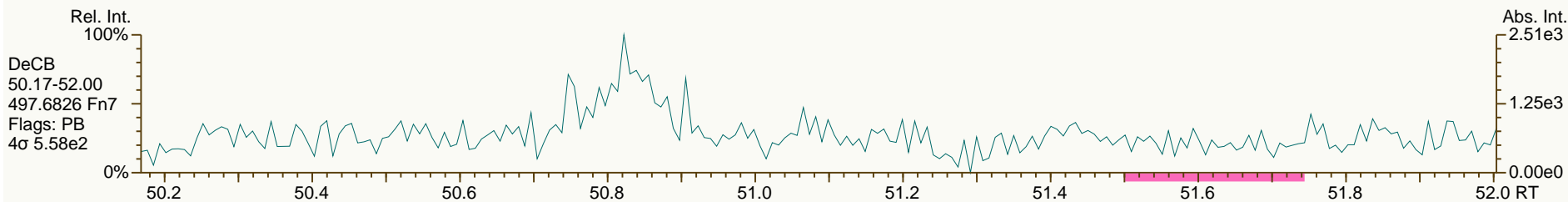
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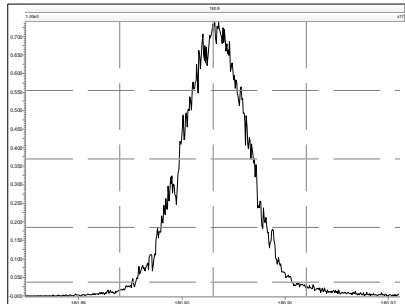
## Resolution Check Report

MassLynx 4.1 SCN 881

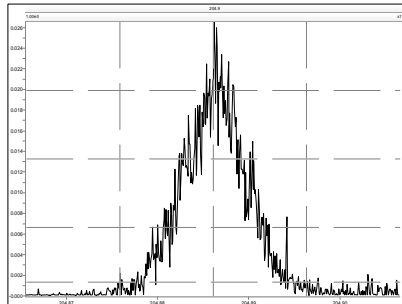
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Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

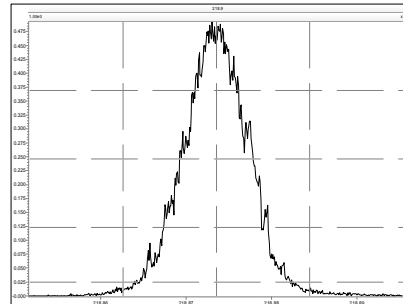
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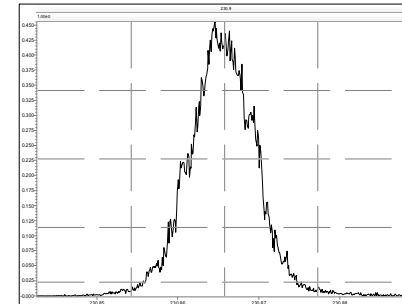
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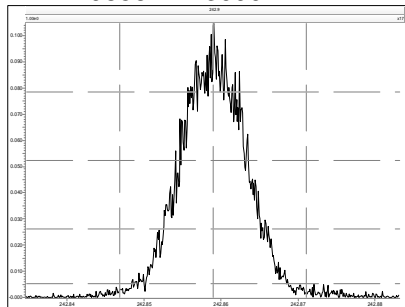
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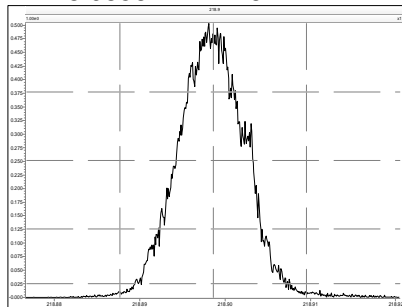
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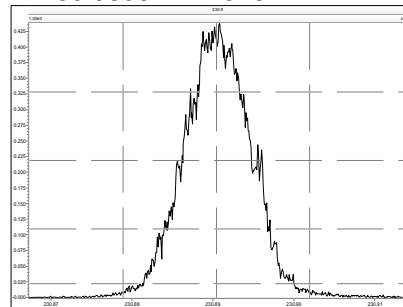
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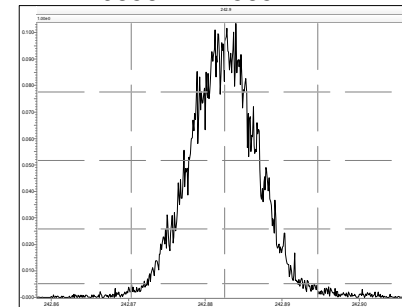
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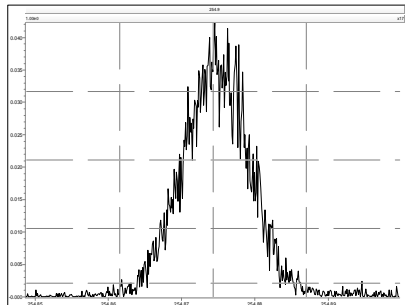
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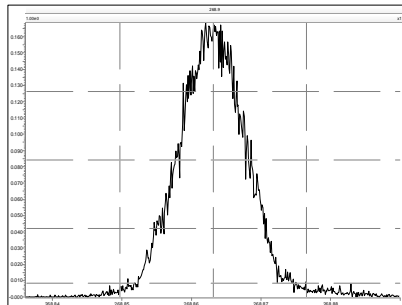
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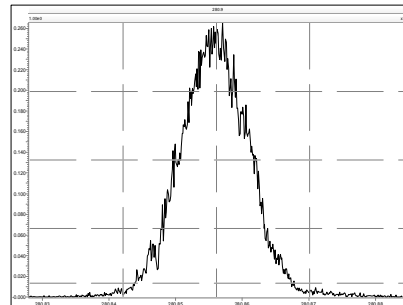
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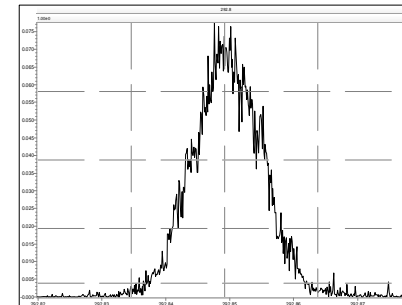
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M 280.9824 R 11932



M 292.9824 R 12588



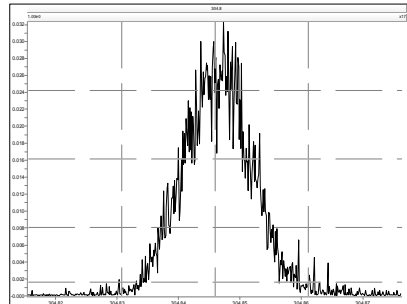
## Resolution Check Report

MassLynx 4.1 SCN 881

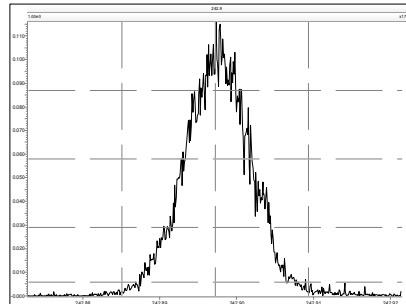
Page 2 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

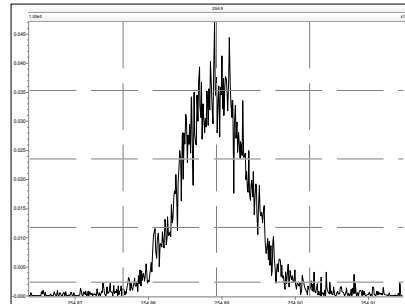
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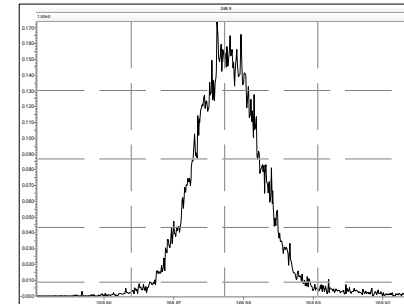
M 242.9856 R 12477



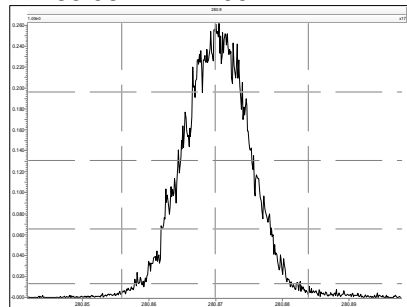
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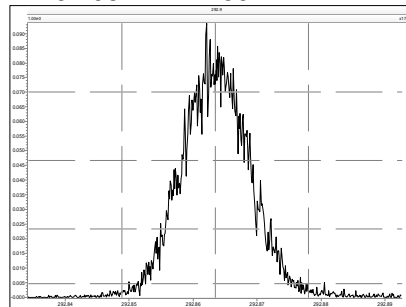
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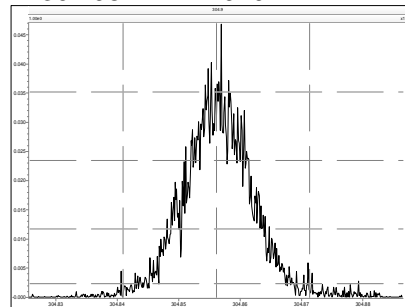
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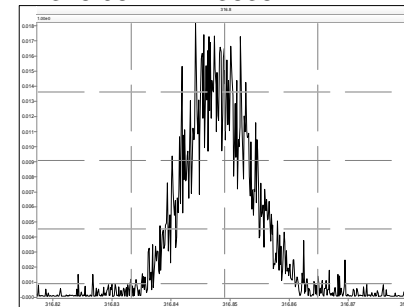
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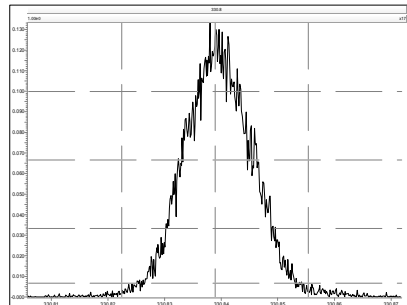
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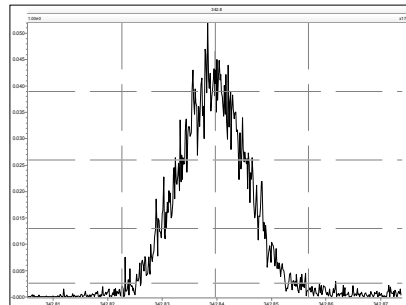
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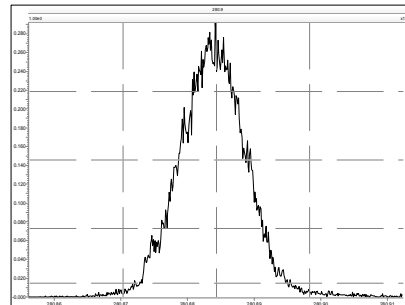
M 330.9792 R 12537



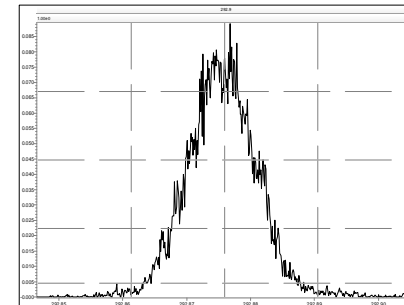
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M 280.9824 R 12626



M 292.9824 R 12205



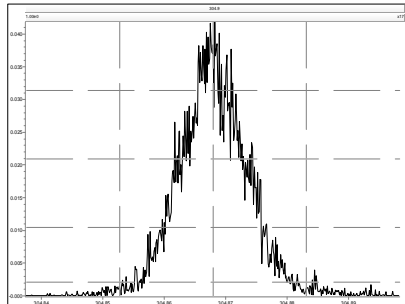
## Resolution Check Report

MassLynx 4.1 SCN 881

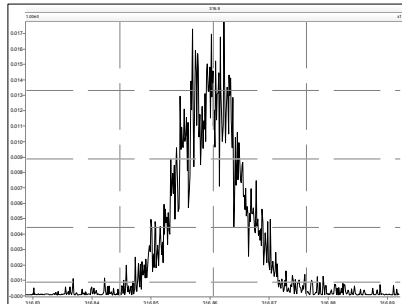
Page 3 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

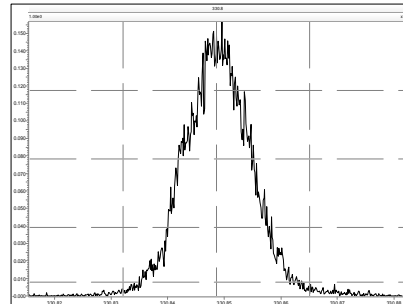
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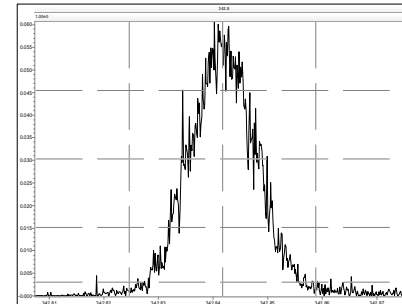
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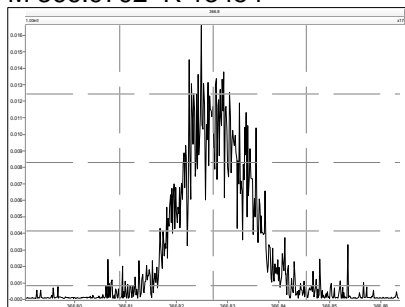
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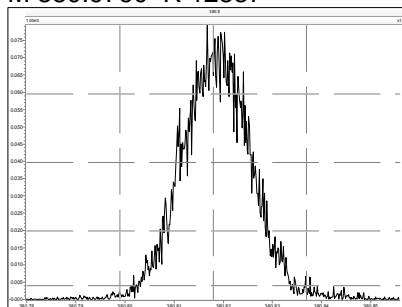
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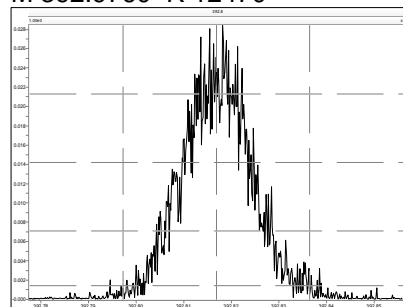
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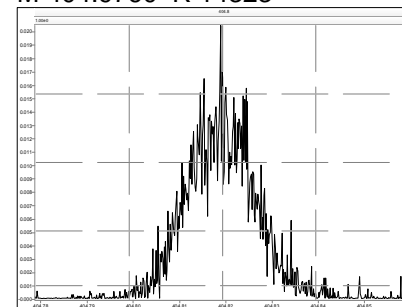
M 380.9760 R 12537



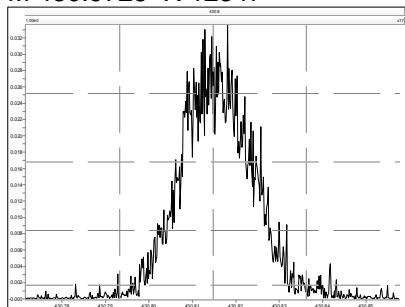
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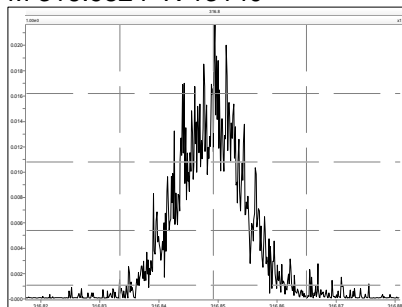
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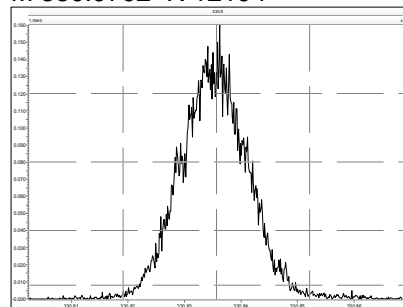
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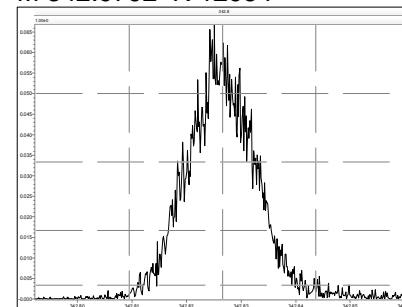
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M 330.9792 R 12194



M 342.9792 R 12954



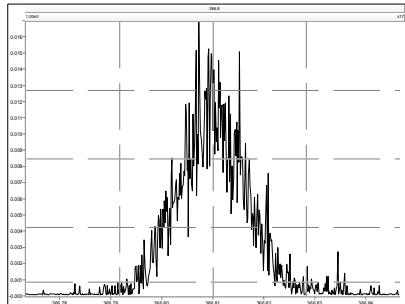
## Resolution Check Report

MassLynx 4.1 SCN 881

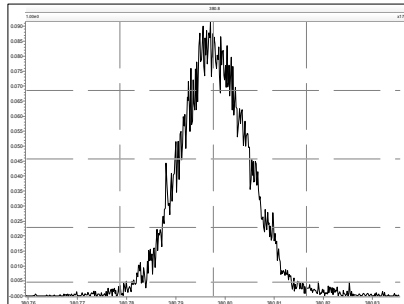
Page 4 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

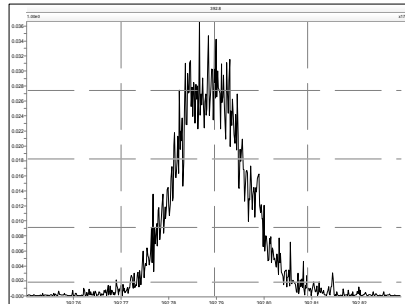
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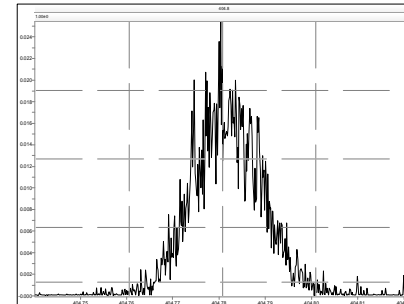
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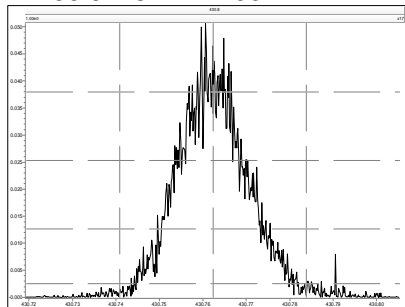
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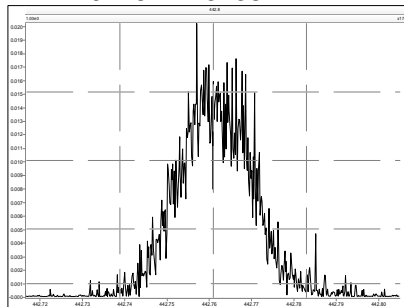
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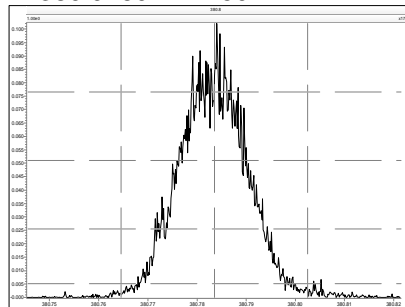
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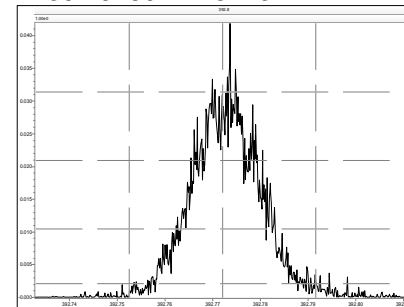
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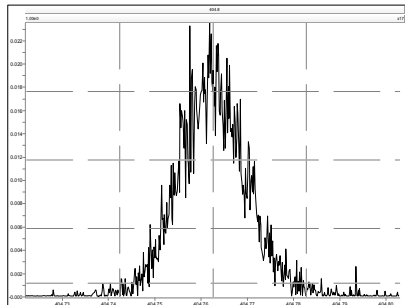
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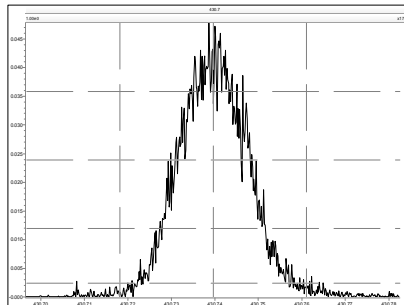
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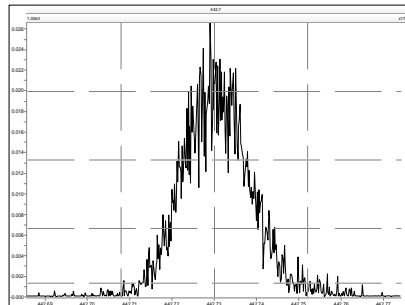
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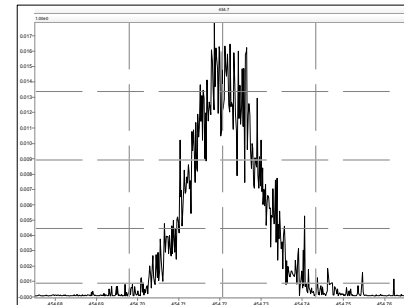
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M 442.9728 R 13774



M 454.9728 R 13447



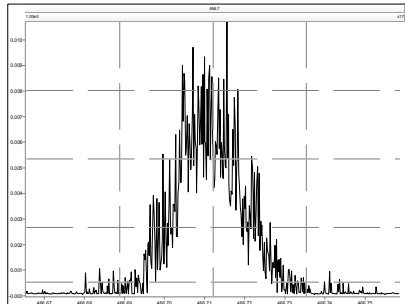
## Resolution Check Report

MassLynx 4.1 SCN 881

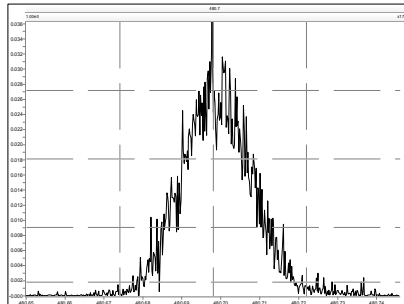
Page 5 of 5

Printed: Friday, March 28, 2014 17:00:55 Eastern Daylight Time

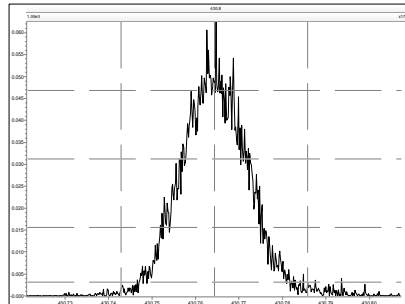
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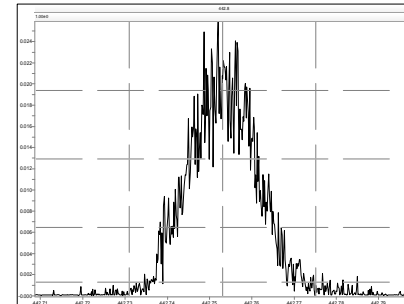
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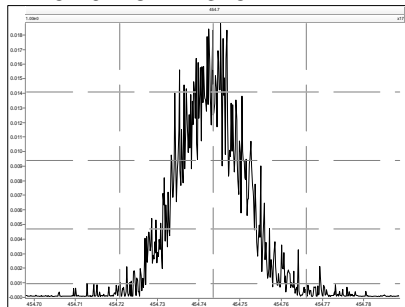
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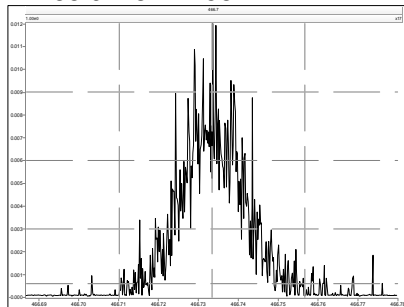
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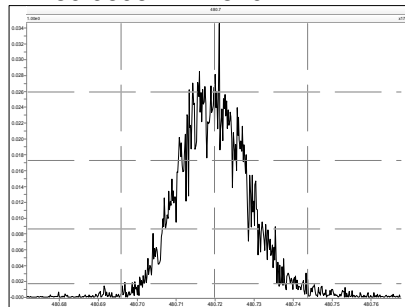
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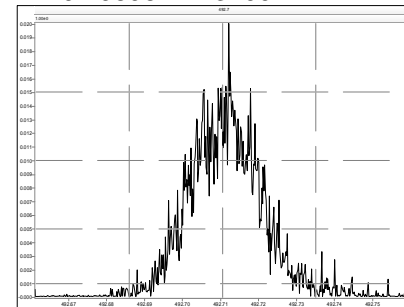
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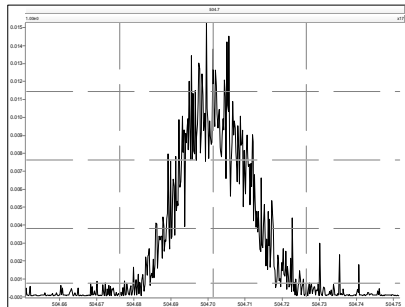
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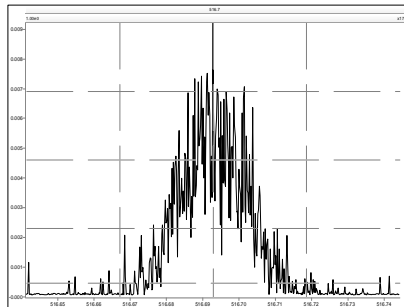
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M 504.9696 R 14063



M 516.9697 R 16349



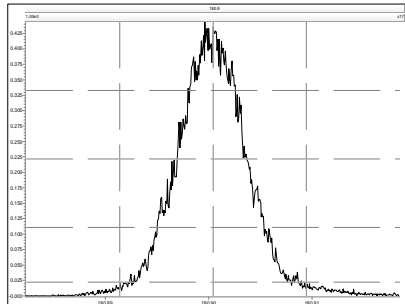
## Resolution Check Report

MassLynx 4.1 SCN 881

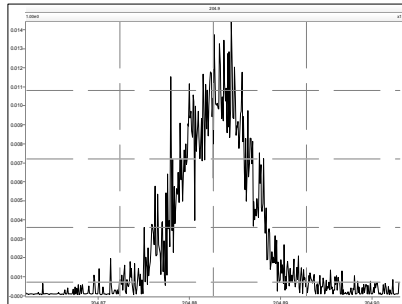
Page 1 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

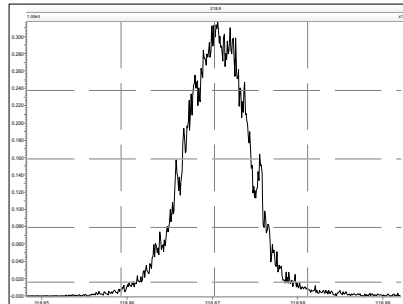
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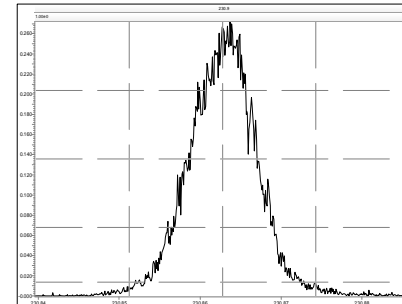
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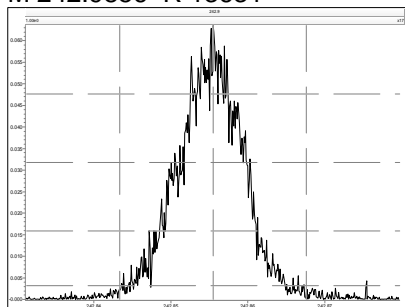
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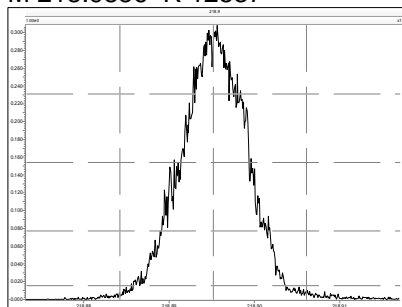
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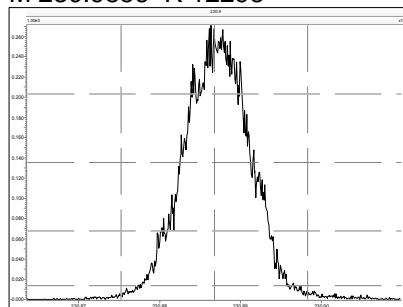
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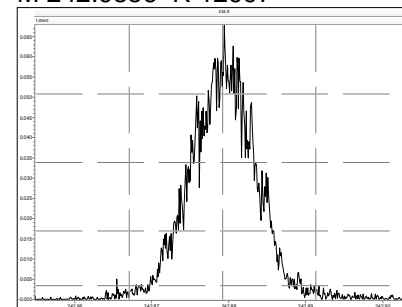
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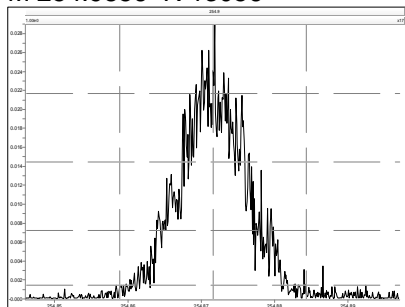
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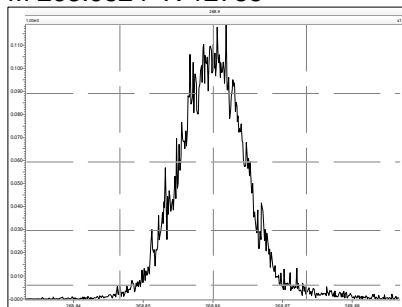
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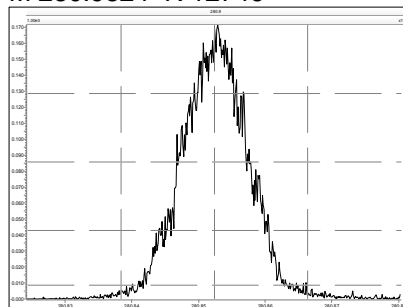
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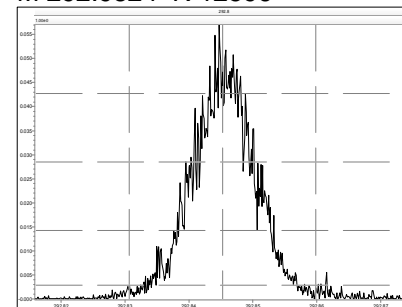
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M 280.9824 R 12746



M 292.9824 R 12596





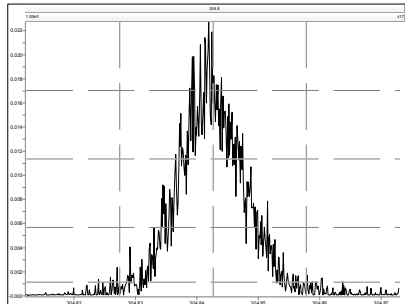
## Resolution Check Report

MassLynx 4.1 SCN 881

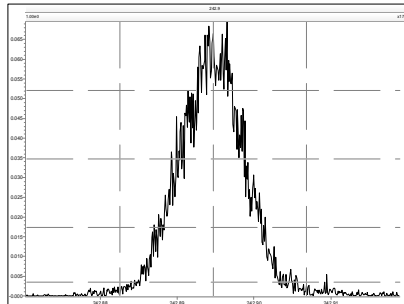
Page 2 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

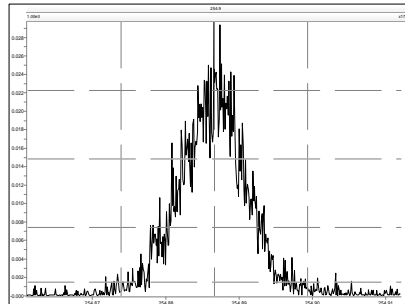
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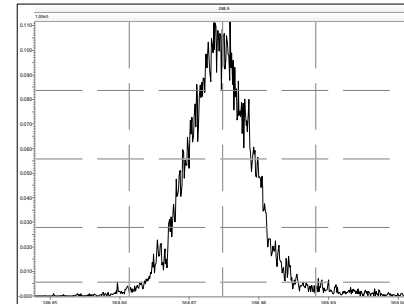
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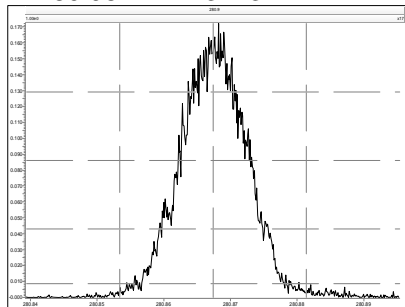
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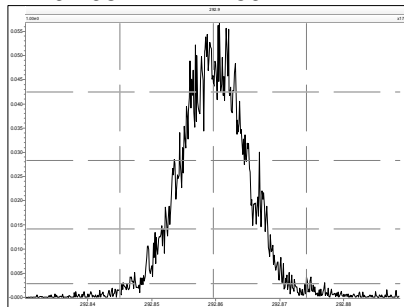
M 268.9824 R 12626



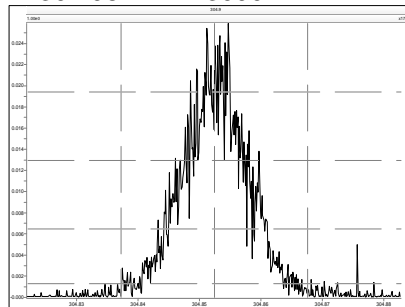
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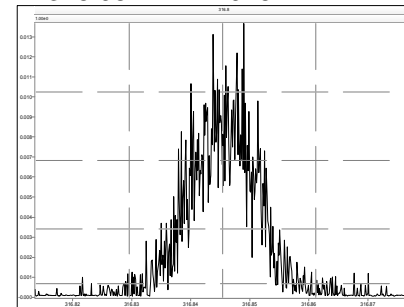
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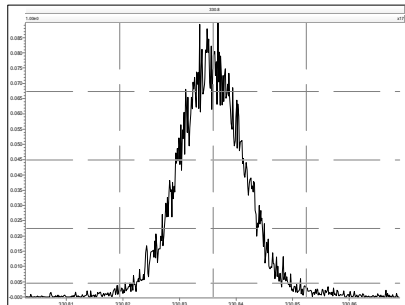
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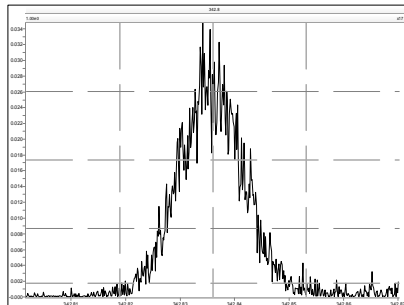
M 316.9824 R 14926



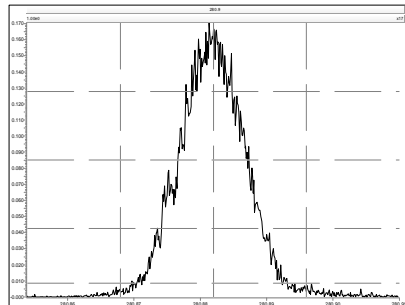
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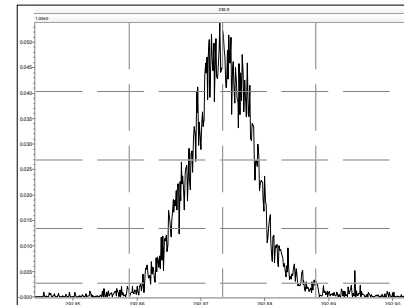
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M 280.9824 R 13026



M 292.9824 R 12540



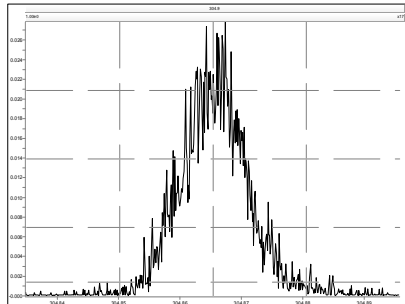
## Resolution Check Report

MassLynx 4.1 SCN 881

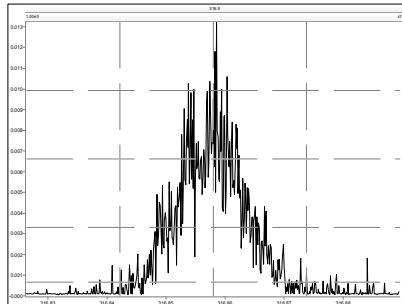
Page 3 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

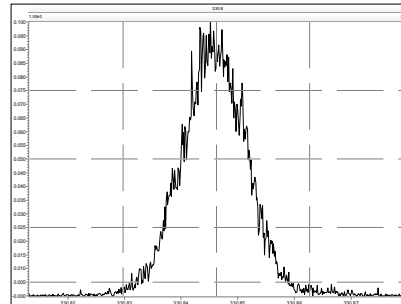
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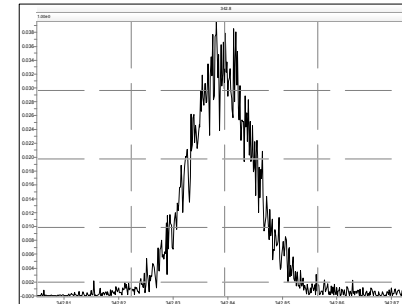
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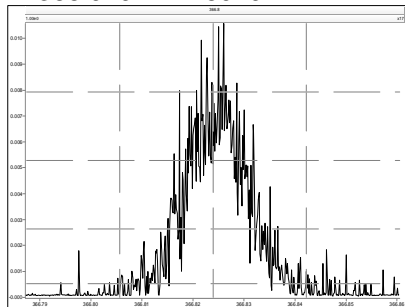
M 330.9792 R 12988



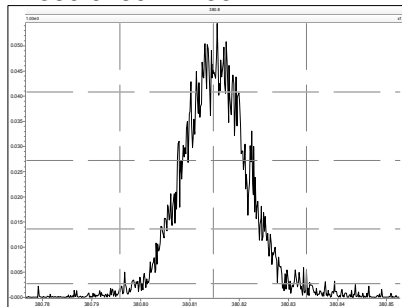
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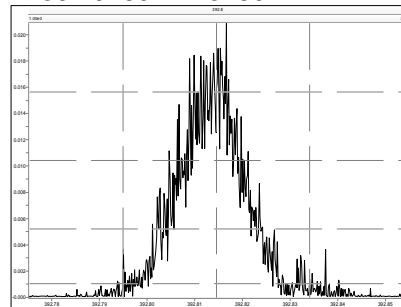
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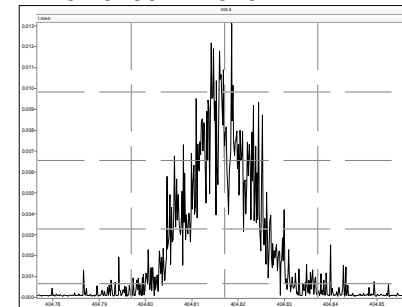
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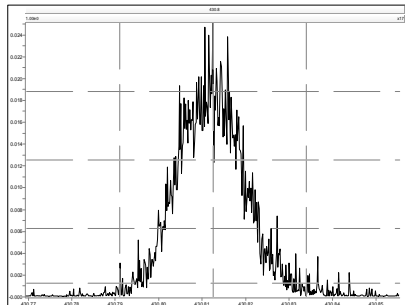
M 392.9760 R 13780



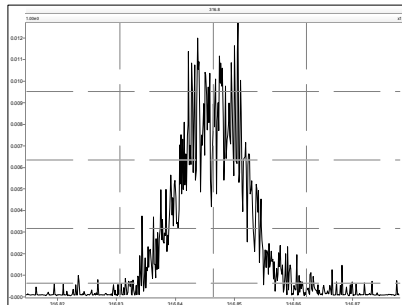
M 404.9760 R 15732



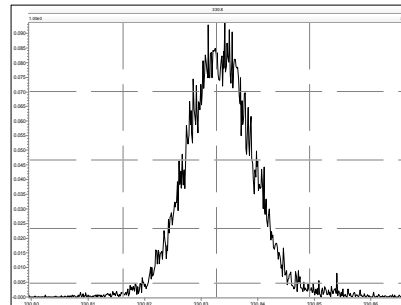
M 430.9728 R 13476



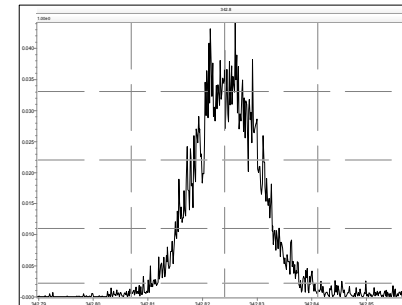
M 316.9824 R 15004



M 330.9792 R 12956



M 342.9792 R 12695



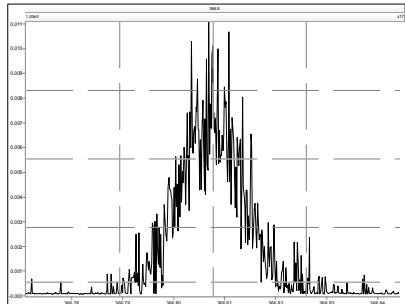
## Resolution Check Report

MassLynx 4.1 SCN 881

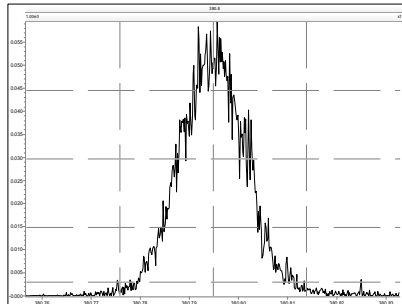
Page 4 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

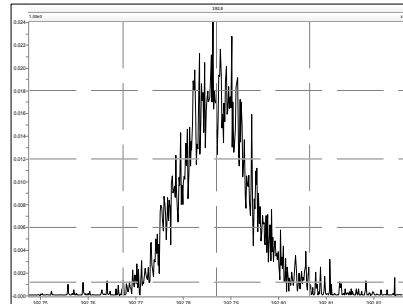
M 366.9792 R 14768



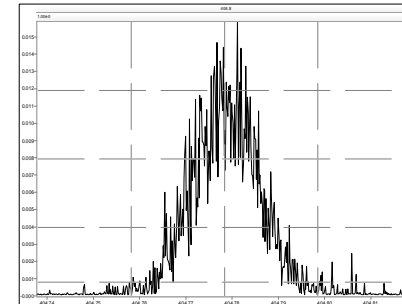
M 380.9760 R 12595



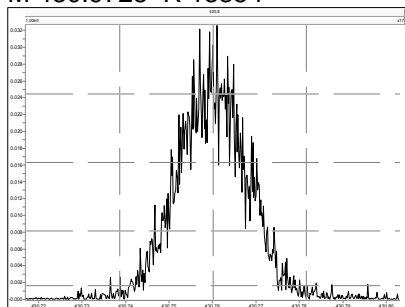
M 392.9760 R 12988



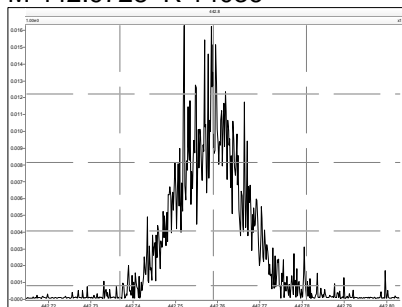
M 404.9760 R 13566



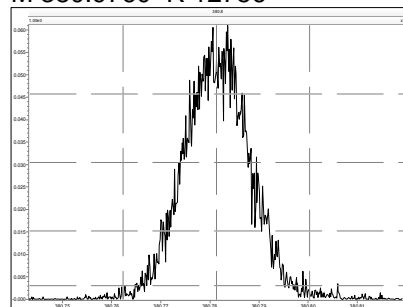
M 430.9728 R 13354



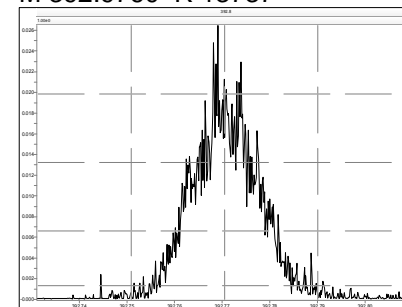
M 442.9728 R 14036



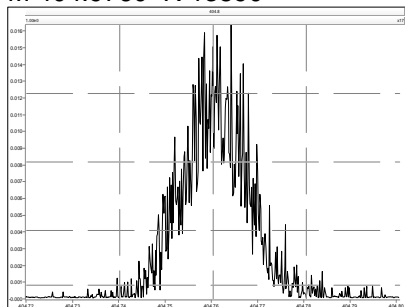
M 380.9760 R 12756



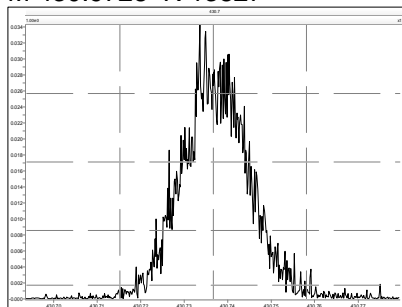
M 392.9760 R 13737



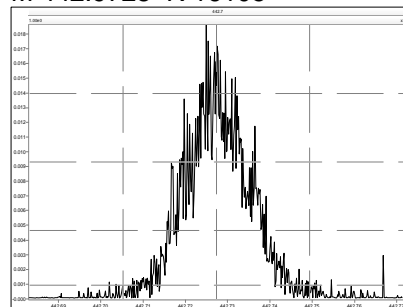
M 404.9760 R 13890



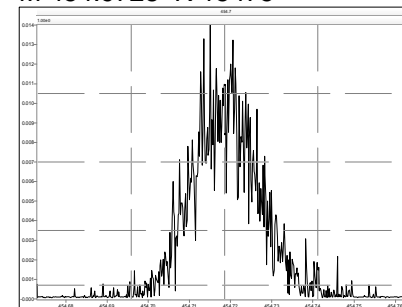
M 430.9728 R 13827



M 442.9728 R 16105



M 454.9728 R 15475



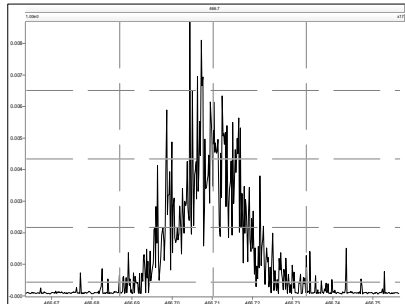
## Resolution Check Report

MassLynx 4.1 SCN 881

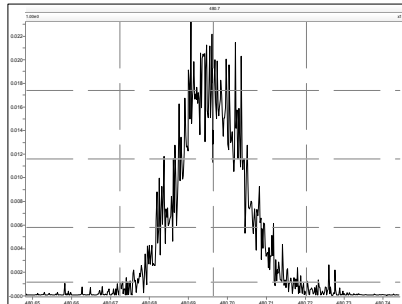
Page 5 of 5

Printed: Saturday, March 29, 2014 03:18:06 Eastern Daylight Time

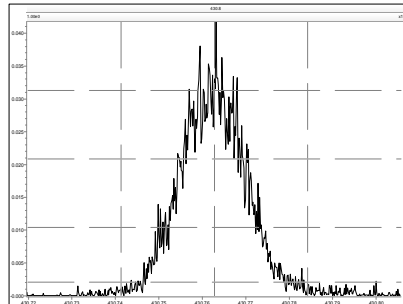
M 466.9728 R 17589



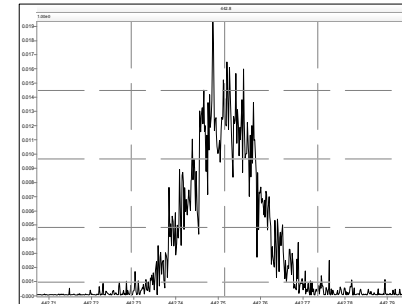
M 480.9696 R 13752



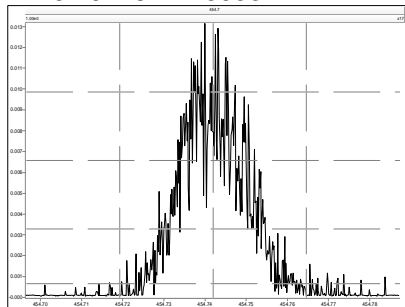
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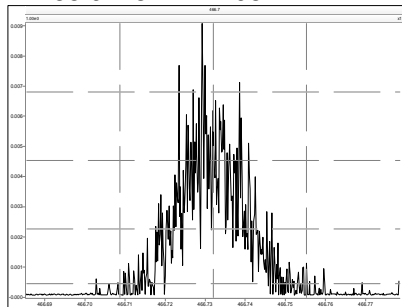
M 442.9728 R 14097



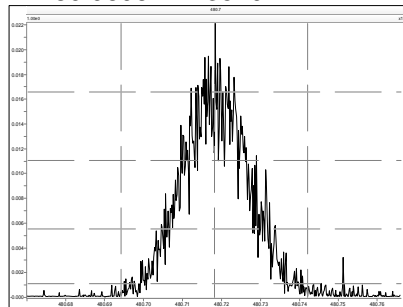
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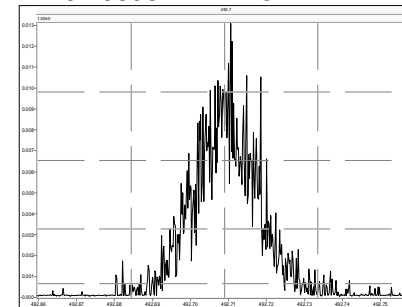
M 466.9728 R 17198



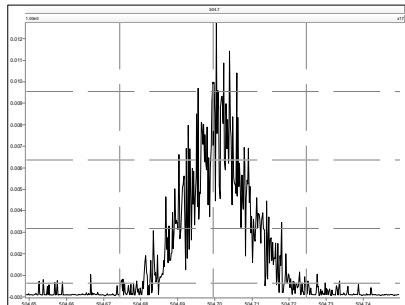
M 480.9696 R 13549



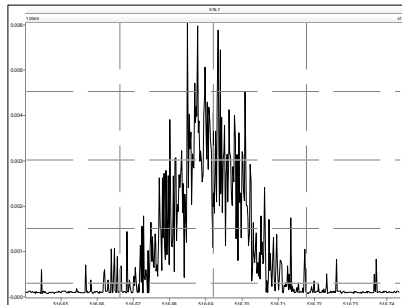
M 492.9696 R 14213



M 504.9696 R 15776



M 516.9697 R 16025



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
Date Processed: 3 Jan 2014 16:52			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
PCB-77 33'44'-TeCB	1.15	4.1%	1.17	1.11	1.09	1.14	1.17	1.22	
PCB-81 344'5'-TeCB	1.12	3.1%	1.08	1.13	1.08	1.12	1.14	1.17	
PCB-105 233'44'-PeCB	1.11	5.1%	1.13	1.02	1.07	1.13	1.15	1.18	
PCB-114 2344'5'-PeCB	1.20	4.8%	1.14	1.16	1.15	1.23	1.24	1.29	
PCB-118 23'44'5'-PeCB	1.19	4.2%	1.20	1.13	1.13	1.22	1.22	1.25	
PCB-123 23'44'5'-PeCB	1.21	2.4%	1.20	1.20	1.16	1.23	1.23	1.25	
PCB-126 33'44'5'-PeCB	1.11	5.8%	1.05	1.07	1.05	1.12	1.14	1.21	
PCB-156/157 ...-HxCB	1.10	4.0%	1.07	1.07	1.05	1.12	1.11	1.17	
PCB-167 23'44'55'-HxCB	1.16	4.0%	1.11	1.13	1.12	1.20	1.18	1.23	
PCB-169 33'44'55'-HxCB	1.12	3.5%	1.12	1.07	1.09	1.16	1.14	1.17	
PCB-189 233'44'55'-HpCB	1.07	5.0%	1.08	1.00	1.03	1.07	1.10	1.16	
PCB-209 DeCB	1.11	3.9%	1.18	1.10	1.06	1.09	1.10	1.15	
ES PCB-1	1.19	3.7%	1.25	1.22	1.21	1.18	1.17	1.13	
ES PCB-3	1.09	2.3%	1.12	1.09	1.10	1.06	1.08	1.06	
ES PCB-4	0.52	0.7%	0.52	0.52	0.53	0.52	0.52	0.53	
ES PCB-15	1.04	1.1%	1.04	1.04	1.05	1.02	1.05	1.05	
ES PCB-19	0.51	1.4%	0.50	0.50	0.51	0.50	0.51	0.52	
ES PCB-37	1.66	1.8%	1.69	1.64	1.68	1.61	1.66	1.69	
ES PCB-54	0.86	1.0%	0.86	0.86	0.88	0.85	0.86	0.85	
ES PCB-77	1.38	1.8%	1.38	1.37	1.42	1.34	1.38	1.40	
ES PCB-81	1.37	2.5%	1.37	1.35	1.36	1.32	1.38	1.42	
ES PCB-104	0.80	1.7%	0.82	0.80	0.82	0.80	0.79	0.78	
ES PCB-105	1.20	2.5%	1.22	1.21	1.25	1.18	1.18	1.17	
ES PCB-114	1.22	2.3%	1.24	1.22	1.26	1.19	1.21	1.19	
ES PCB-118	1.16	2.4%	1.19	1.17	1.19	1.13	1.14	1.14	
ES PCB-123	1.19	1.2%	1.19	1.20	1.20	1.16	1.19	1.18	
ES PCB-126	1.03	3.2%	1.07	1.02	1.07	0.99	1.01	1.01	
ES PCB-153	1.11	1.4%	1.14	1.11	1.13	1.10	1.11	1.10	
ES PCB-155	1.59	3.0%	1.66	1.60	1.63	1.56	1.56	1.52	
ES PCB-156/157	1.60	2.0%	1.60	1.57	1.63	1.56	1.64	1.61	
ES PCB-167	1.67	2.0%	1.68	1.65	1.71	1.62	1.70	1.65	
ES PCB-169	1.56	2.3%	1.54	1.53	1.58	1.51	1.60	1.58	
ES PCB-170	0.95	1.9%	0.92	0.93	0.96	0.95	0.95	0.97	
ES PCB-180	1.14	3.6%	1.11	1.10	1.13	1.11	1.16	1.21	
ES PCB-188	0.94	1.9%	0.97	0.93	0.96	0.92	0.93	0.93	
ES PCB-189	1.58	1.1%	1.61	1.57	1.60	1.57	1.57	1.58	
ES PCB-202	0.97	1.2%	0.96	0.96	0.99	0.97	0.97	0.97	
ES PCB-205	1.24	0.9%	1.24	1.23	1.26	1.24	1.25	1.25	
ES PCB-206	0.83	1.4%	0.83	0.82	0.85	0.83	0.83	0.82	

PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
ES PCB-208	1.17	1.4%	1.16	1.16	1.20	1.17	1.18	1.19	
ES PCB-209	1.11	1.9%	1.12	1.10	1.14	1.11	1.11	1.08	
SS PCB-28	1.11	1.2%	1.12	1.12	1.11	1.12	1.11	1.09	
SS PCB-111	1.03	1.6%	1.04	1.02	1.03	1.05	1.00	1.03	
SS PCB-178	0.62	2.7%	0.64	0.61	0.61	0.61	0.61	0.64	
CS PCB-28	1.85	1.4%	1.89	1.84	1.86	1.81	1.84	1.83	
CS PCB-111	1.22	1.4%	1.24	1.22	1.23	1.22	1.19	1.21	
CS PCB-178	0.58	3.7%	0.62	0.57	0.58	0.56	0.57	0.60	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46	
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53	
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29	
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24	
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31	
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31	
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10	
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13	
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19	
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18	

PCB ICAL Summary - Ax2 Detail			SGS Analytical Perspectives					Printed: 3 Jan 2014 16:53	
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013									
Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-2 3-MoCB	1.03	3.8%	1.02	1.01	0.98	1.08	1.08	1.02	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-10 26-DiCB	1.98	3.9%	1.91	1.90	1.93	2.05	2.04	2.06	
PCB-9 25-DiCB	0.95	2.8%	0.93	0.95	0.90	0.96	0.96	0.97	
PCB-7 24-DiCB	1.05	5.7%	0.95	1.03	1.02	1.09	1.08	1.11	
PCB-6 23'-DiCB	1.00	4.5%	0.97	0.94	0.96	1.03	1.03	1.05	
PCB-5 23-DiCB	1.00	4.8%	1.03	0.92	0.96	1.02	1.02	1.05	
PCB-8 24'-DiCB	1.03	3.2%	1.07	0.99	1.00	1.04	1.03	1.07	
PCB-14 35-DiCB	1.18	3.9%	1.14	1.14	1.15	1.20	1.21	1.25	
PCB-11 33'-DiCB	1.01	4.5%	0.98	0.95	0.99	1.03	1.04	1.07	
PCB-13/12 34'/34-DiCB	0.99	6.8%	0.88	0.96	0.97	1.02	1.03	1.07	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-30/18 246/22'5-TrCB	1.54	3.5%	1.49	1.47	1.51	1.57	1.59	1.60	
PCB-17 22'4-TrCB	1.31	4.4%	1.23	1.28	1.27	1.33	1.34	1.38	
PCB-27 23'6-TrCB	1.82	3.6%	1.77	1.76	1.77	1.83	1.87	1.92	
PCB-24 236-TrCB	1.72	3.4%	1.67	1.69	1.67	1.74	1.73	1.83	
PCB-16 22'3-TrCB	1.01	4.3%	0.99	0.94	1.00	1.00	1.05	1.06	
PCB-32 24'6-TrCB	1.92	2.4%	1.90	1.91	1.85	1.93	1.93	1.99	
PCB-34 23'5'-TrCB	1.14	3.0%	1.11	1.09	1.11	1.15	1.18	1.16	
PCB-23 235-TrCB	1.16	4.1%	1.20	1.09	1.10	1.18	1.19	1.17	
PCB-26/29 23'5/245-TrCB	1.17	3.0%	1.15	1.14	1.13	1.20	1.21	1.21	
PCB-25 23'4-TrCB	1.16	2.6%	1.13	1.14	1.13	1.18	1.18	1.18	
PCB-31 24'5-TrCB	1.23	3.3%	1.25	1.16	1.19	1.26	1.24	1.25	
PCB-28/20 244'/233'-TrCB	1.13	3.6%	1.13	1.08	1.08	1.17	1.17	1.17	
PCB-21/33 234/23'4'-TrCB	1.17	3.3%	1.15	1.14	1.13	1.21	1.21	1.21	
PCB-22 234'-TrCB	1.08	2.8%	1.08	1.05	1.04	1.09	1.10	1.12	
PCB-36 33'5-TrCB	1.17	4.4%	1.13	1.12	1.13	1.19	1.21	1.24	
PCB-39 34'5-TrCB	1.21	4.1%	1.18	1.16	1.16	1.24	1.25	1.27	
PCB-38 345-TrCB	1.10	3.7%	1.07	1.08	1.06	1.14	1.16	1.11	
PCB-35 33'4-TrCB	1.04	4.6%	1.01	0.98	1.00	1.08	1.07	1.10	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-50/53 22'46/22'56'-TeCB	0.88	2.7%	0.89	0.85	0.84	0.90	0.89	0.89	
PCB-45 22'36'-TeCB	0.77	5.4%	0.78	0.76	0.70	0.74	0.78	0.83	
PCB-51 22'46'-TeCB	0.86	5.9%	0.80	0.82	0.89	0.93	0.88	0.84	
PCB-46 22'36'-TeCB	0.70	2.5%	0.70	0.68	0.68	0.72	0.71	0.71	
PCB-52 22'55'-TeCB	0.84	1.7%	0.85	0.83	0.82	0.86	0.85	0.85	

PCB-73 23'56'-TeCB	1.11	4.0%	1.13	1.06	1.06	1.12	1.12	1.17
PCB-43 22'35'-TeCB	0.71	4.5%	0.68	0.68	0.72	0.77	0.72	0.70
PCB-69/49 23'46'/22'45'-TeCB	1.02	3.4%	0.99	0.98	0.99	1.05	1.05	1.06
PCB-48 22'45'-TeCB	0.84	3.5%	0.83	0.79	0.83	0.87	0.85	0.87
PCB-44/47/65 ...-TeCB	0.90	3.3%	0.89	0.88	0.86	0.93	0.93	0.93
PCB-59/62/75 ...-TeCB	1.17	3.7%	1.13	1.13	1.13	1.21	1.22	1.18
PCB-42 22'34'-TeCB	0.76	2.8%	0.76	0.73	0.75	0.79	0.77	0.78
PCB-41 22'34'-TeCB	0.69	4.3%	0.68	0.66	0.69	0.73	0.68	0.73
PCB-71/40 23'4'6'/22'33'-TeCB	0.86	3.9%	0.84	0.82	0.83	0.87	0.90	0.89
PCB-64 234'6'-TeCB	1.22	3.9%	1.17	1.18	1.18	1.27	1.25	1.28
PCB-72 23'55'-TeCB	1.21	2.1%	1.19	1.18	1.19	1.25	1.22	1.23
PCB-68 23'45'-TeCB	1.28	2.7%	1.26	1.24	1.24	1.31	1.31	1.30
PCB-57 233'5'-TeCB	1.16	2.6%	1.18	1.11	1.16	1.20	1.16	1.17
PCB-58 233'5'-TeCB	1.18	2.9%	1.17	1.13	1.15	1.20	1.19	1.23
PCB-67 23'45'-TeCB	1.26	1.9%	1.23	1.25	1.23	1.29	1.27	1.28
PCB-63 234'5'-TeCB	1.30	3.1%	1.30	1.26	1.24	1.33	1.32	1.34
PCB-61/70/74/76 ...-TeCB	1.20	2.4%	1.20	1.16	1.16	1.23	1.22	1.21
PCB-66 23'44'-TeCB	1.10	3.3%	1.06	1.06	1.09	1.14	1.14	1.13
PCB-55 233'4'-TeCB	1.12	2.3%	1.09	1.10	1.12	1.14	1.12	1.15
PCB-56 233'4'-TeCB	1.11	2.9%	1.13	1.05	1.10	1.13	1.12	1.13
PCB-60 2344'-TeCB	1.14	1.8%	1.13	1.12	1.11	1.15	1.14	1.16
PCB-80 33'55'-TeCB	1.31	2.3%	1.30	1.29	1.28	1.35	1.32	1.34
PCB-79 33'45'-TeCB	1.31	2.5%	1.26	1.33	1.28	1.31	1.35	1.32
PCB-78 33'45'-TeCB	1.06	4.2%	1.04	0.99	1.04	1.10	1.08	1.11
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46
PCB-96 22'366'-PeCB	1.23	4.7%	1.12	1.24	1.20	1.26	1.28	1.27
PCB-103 22'45'6'-PeCB	0.93	2.7%	0.91	0.91	0.91	0.96	0.95	0.95
PCB-94 22'356'-PeCB	0.80	3.3%	0.79	0.76	0.79	0.83	0.81	0.82
PCB-95 22'35'6'-PeCB	0.87	3.9%	0.89	0.80	0.85	0.89	0.87	0.89
PCB-100/93 22'44'6'/22'356'-PeCB	0.86	3.5%	0.84	0.83	0.85	0.88	0.90	0.89
PCB-102 22'456'-PeCB	0.97	6.3%	0.97	0.93	0.99	1.03	0.87	1.02
PCB-98 22'34'6'-PeCB	0.76	8.5%	0.73	0.68	0.71	0.80	0.86	0.77
PCB-88 22'346'-PeCB	0.80	11.9%	0.96	0.72	0.73	0.74	0.85	0.78
PCB-91 22'34'6'-PeCB	0.94	10.7%	0.76	0.95	0.94	1.04	0.95	1.03
PCB-84 22'33'6'-PeCB	0.72	4.5%	0.71	0.66	0.70	0.75	0.73	0.74
PCB-89 22'346'-PeCB	0.76	3.8%	0.73	0.74	0.75	0.80	0.78	0.79
PCB-121 23'45'6'-PeCB	1.20	3.2%	1.18	1.15	1.16	1.23	1.23	1.24
PCB-92 22'355'-PeCB	0.82	2.3%	0.82	0.81	0.79	0.84	0.83	0.84
PCB-113/90/101 ...-PeCB	0.99	2.4%	0.98	0.96	0.96	1.00	1.01	1.01
PCB-83 22'33'5'-PeCB	0.71	4.0%	0.77	0.70	0.71	0.72	0.70	0.69
PCB-99 22'44'5'-PeCB	0.92	6.0%	0.88	0.88	0.88	0.91	0.98	1.00
PCB-112 233'56'-PeCB	1.17	3.9%	1.12	1.12	1.16	1.24	1.17	1.18
PCB-108/119/86/97/125...-PeCB	0.98	3.2%	0.98	0.94	0.95	1.01	1.02	0.97
PCB-117 234'56'-PeCB	1.14	6.9%	1.02	1.15	1.15	1.17	1.09	1.25
PCB-116/85 23456/22'344'-PeCB	0.94	6.2%	1.02	0.87	0.88	0.94	0.99	0.95
PCB-110 233'4'6'-PeCB	1.12	6.3%	1.09	1.07	1.06	1.25	1.11	1.13
PCB-115 2344'6'-PeCB	1.16	4.4%	1.18	1.11	1.16	1.10	1.16	1.24



PCB-82 22'33'4-PeCB	0.70	3.4%	0.69	0.67	0.67	0.70	0.72	0.73
PCB-111 233'55'-PeCB	1.22	2.9%	1.23	1.17	1.19	1.25	1.23	1.26
PCB-120 23'455'-PeCB	1.21	4.3%	1.18	1.14	1.18	1.24	1.25	1.28
PCB-107/124 ...-PeCB	1.10	4.7%	1.07	1.03	1.07	1.14	1.12	1.17
PCB-109 233'46-PeCB	1.25	8.6%	1.26	1.05	1.26	1.33	1.26	1.36
PCB-106 233'45-PeCB	1.11	3.3%	1.12	1.08	1.04	1.12	1.13	1.14
PCB-122 233'4'5'-PeCB	0.99	4.1%	0.97	0.96	0.95	1.01	1.02	1.06
PCB-127 33'455'-PeCB	1.10	5.5%	1.09	1.04	1.03	1.11	1.12	1.19
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29
PCB-152 22'3566'-HxCB	1.17	4.1%	1.16	1.12	1.13	1.16	1.23	1.23
PCB-150 22'34'66'-HxCB	1.18	3.7%	1.18	1.10	1.15	1.20	1.21	1.22
PCB-136 22'33'66'-HxCB	1.07	6.5%	1.01	0.98	1.04	1.09	1.12	1.16
PCB-145 22'3466'-HxCB	1.11	3.0%	1.13	1.09	1.06	1.12	1.14	1.16
PCB-148 22'34'56'-HxCB	1.18	4.0%	1.14	1.14	1.16	1.19	1.23	1.25
PCB-151/135 ...-HxCB	1.14	2.4%	1.11	1.13	1.12	1.14	1.16	1.18
PCB-154 22'44'56'-HxCB	1.34	3.1%	1.38	1.29	1.30	1.33	1.37	1.38
PCB-144 22'345'6-HxCB	1.18	3.1%	1.22	1.12	1.17	1.19	1.20	1.20
PCB-147/149 ...-HxCB	1.18	3.5%	1.12	1.15	1.16	1.18	1.21	1.23
PCB-134 22'33'56'-HxCB	0.92	4.3%	0.97	0.90	0.88	0.89	0.96	0.94
PCB-143 22'3456'-HxCB	1.13	3.3%	1.07	1.10	1.14	1.18	1.12	1.16
PCB-139/140 ...-HxCB	1.21	3.3%	1.20	1.16	1.17	1.20	1.24	1.27
PCB-131 22'33'46-HxCB	1.03	2.7%	1.02	1.02	0.98	1.03	1.04	1.06
PCB-142 22'3456-HxCB	0.99	4.9%	0.96	0.92	0.97	1.01	1.03	1.06
PCB-132 22'33'46'-HxCB	1.03	2.0%	1.03	1.01	1.01	1.03	1.03	1.06
PCB-133 22'33'55'-HxCB	1.13	2.8%	1.13	1.11	1.09	1.13	1.16	1.17
PCB-165 233'55'6-HxCB	1.41	1.5%	1.41	1.39	1.40	1.42	1.39	1.44
PCB-146 22'34'55'-HxCB	1.20	3.4%	1.19	1.16	1.17	1.19	1.24	1.26
PCB-161 233'45'6-HxCB	1.52	3.6%	1.50	1.44	1.50	1.54	1.55	1.60
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53
PCB-141 22'3455'-HxCB	1.09	2.5%	1.10	1.05	1.07	1.10	1.10	1.12
PCB-130 22'33'45'-HxCB	0.97	1.8%	0.97	0.95	0.96	0.97	0.98	1.00
PCB-137 22'344'5-HxCB	1.16	5.1%	1.19	1.14	1.10	1.10	1.22	1.24
PCB-164 233'4'5'6-HxCB	1.50	5.4%	1.35	1.48	1.52	1.58	1.51	1.55
PCB-163/138/129 ...-HxCB	1.19	4.0%	1.18	1.15	1.14	1.17	1.23	1.27
PCB-160 233'456-HxCB	1.52	2.3%	1.49	1.48	1.49	1.55	1.56	1.52
PCB-158 233'44'6-HxCB	1.66	2.4%	1.69	1.64	1.62	1.63	1.67	1.72
PCB-128/166 ...-HxCB	0.90	5.7%	0.86	0.86	0.85	0.91	0.93	0.98
PCB-159 233'455'-HxCB	1.11	3.3%	1.09	1.11	1.07	1.13	1.12	1.17
PCB-162 233'4'55'-HxCB	1.07	5.3%	1.03	1.01	1.03	1.11	1.10	1.15
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31
PCB-179 22'33'566'-HpCB	1.16	1.6%	1.19	1.16	1.13	1.17	1.16	1.15
PCB-184 22'344'66'-HpCB	1.13	2.7%	1.14	1.09	1.10	1.13	1.13	1.17
PCB-176 22'33'466'-HpCB	1.23	1.7%	1.21	1.22	1.22	1.25	1.24	1.26
PCB-186 22'34566'-HpCB	1.13	1.5%	1.14	1.11	1.10	1.14	1.12	1.14
PCB-178 22'33'55'6-HpCB	0.84	3.8%	0.88	0.80	0.82	0.84	0.84	0.88
PCB-175 22'33'45'6-HpCB	1.07	4.2%	1.02	1.05	1.05	1.08	1.10	1.15
PCB-187 22'34'55'6-HpCB	1.14	4.0%	1.08	1.12	1.11	1.15	1.17	1.21

PCB-182 22'344'56'-HpCB	1.18	4.7%	1.09	1.14	1.16	1.22	1.21	1.23
PCB-183 22'344'5'6'-HpCB	1.20	3.5%	1.16	1.18	1.21	1.28	1.18	1.22
PCB-185 22'3455'6'-HpCB	1.06	9.3%	0.95	1.03	0.99	1.03	1.15	1.21
PCB-174 22'33'456'-HpCB	0.99	4.3%	0.93	1.04	0.96	1.00	0.98	1.03
PCB-177 22'33'45'6'-HpCB	0.95	2.6%	0.93	0.94	0.93	0.95	0.96	0.99
PCB-181 22'344'56'-HpCB	1.09	4.9%	1.03	1.07	1.04	1.11	1.12	1.17
PCB-171/173 ...-HpCB	0.95	5.3%	0.90	0.90	0.92	0.97	0.98	1.03
PCB-172 22'33'455'-HpCB	0.99	3.7%	0.96	0.97	0.95	1.02	1.00	1.04
PCB-192 233'455'6'-HpCB	1.29	5.1%	1.17	1.27	1.28	1.32	1.32	1.36
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31
PCB-191 233'44'5'6'-HpCB	1.40	2.6%	1.41	1.40	1.33	1.40	1.40	1.44
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24
PCB-190 233'44'56'-HpCB	1.66	5.4%	1.63	1.58	1.58	1.66	1.69	1.82
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10
PCB-201 22'33'45'66'-OcCB	1.22	3.2%	1.16	1.22	1.19	1.24	1.27	1.24
PCB-204 22'344'566'-OcCB	1.12	2.5%	1.10	1.13	1.08	1.12	1.12	1.16
PCB-197 22'33'44'66'-OcCB	1.19	5.1%	1.26	1.16	1.11	1.15	1.21	1.26
PCB-200 22'33'4566'-OcCB	1.11	5.6%	1.03	1.04	1.12	1.16	1.12	1.17
PCB-198/199 ...-OcCB	0.81	3.2%	0.80	0.79	0.78	0.80	0.82	0.86
PCB-196 22'33'44'56'-OcCB	0.83	2.8%	0.84	0.80	0.82	0.84	0.84	0.87
PCB-203 22'344'55'6'-OcCB	0.87	2.5%	0.87	0.85	0.85	0.88	0.88	0.91
PCB-195 22'33'44'56'-OcCB	0.77	4.3%	0.79	0.74	0.73	0.75	0.77	0.82
PCB-194 22'33'44'55'-OcCB	0.84	3.5%	0.88	0.82	0.81	0.84	0.85	0.88
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19
PCB-207 22'33'44'566'-NoCB	1.19	3.1%	1.20	1.16	1.14	1.20	1.20	1.24
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	0DEC2013				
77	10.6	1.04	0.11	1.11	1.13	1.34	1.15	8.8	1.18	0.10	-4.3%
81	9.6	1.08	0.10	1.13	1.13	1.13	1.12	0.4	1.13	0.00	0.1%
105	4.6	0.96	0.04	1.11	1.09	1.15	1.11	2.1	1.11	0.02	-1.9%
114	4.9	0.96	0.05	1.18	1.16	1.22	1.2	2.1	1.19	0.02	-2.4%
118	6.8	0.95	0.06	1.11	1.11	1.17	1.19	3.7	1.15	0.04	-3.4%
123	3.9	0.97	0.04	1.08	1.19	1.27	1.21	6.5	1.19	0.08	0.2%
126	8.6	1.00	0.09	1.07	1.06	1.12	1.11	2.9	1.09	0.03	-2.6%
156/157	6.4	0.99	0.06	1.09	1.11	1.18	1.1	3.7	1.12	0.04	-1.2%
167	5.8	0.98	0.06	1.14	1.14	1.23	1.16	3.8	1.17	0.04	-2.8%
169	4.5	0.97	0.04	1.09	1.11	1.19	1.12	3.7	1.13	0.04	-1.5%
189	14.7	0.95	0.14	1.07	1.06	1.09	1.07	1.3	1.07	0.01	-1.4%
1	9.3	1.16	0.11	1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
3	9.5	1.16	0.11	0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
4	4.7	1.03	0.05	1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
15	11.8	1.02	0.12	0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
19	4.7	1.04	0.05	1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
37	12.1	1.06	0.13	1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
54	4.3	1.06	0.05	1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
104	5.4	1.01	0.05	1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
153				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
155	3.2	1.02	0.03	1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
170				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
180				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
188	4.2	1.02	0.04	1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
202	3.0	0.91	0.03	0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
205	5.4	0.96	0.05	1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
208	2.3	0.93	0.02	1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
206	3.2	0.97	0.03	0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.2%
209	7.0	0.95	0.07	1.07	1.07	1.13	1.11	2.6	1.10	0.03	-2.1%
<b>ES</b>											
1	6.7	1.01	0.07	1.08	1.08	1.20	1.19	6.0	1.14	0.07	-5.0%
3	5.5	1.02	0.06	1.14	1.08	1.14	1.09	2.7	1.11	0.03	-2.7%
4	10.0	0.69	0.07	0.50	0.49	0.57	0.52	6.8	0.52	0.04	-6.0%
15	4.2	1.06	0.04	1.18	1.11	1.07	1.04	5.5	1.10	0.06	0.8%
19	6.3	0.62	0.04	0.53	0.55	0.57	0.51	4.8	0.54	0.03	2.3%
37	10.4	1.36	0.14	1.64	1.64	1.55	1.66	2.9	1.62	0.05	0.8%
54	7.3	1.18	0.09	0.87	0.94	0.86	0.86	4.4	0.88	0.04	6.5%
77	11.1	1.23	0.14	1.26	1.35	1.11	1.38	9.6	1.27	0.12	5.7%
81	9.4	1.19	0.11	1.20	1.29	1.26	1.37	5.6	1.28	0.07	0.7%
104	8.0	1.33	0.11	1.08	0.99	0.89	0.8	13.2	0.94	0.12	5.6%
105	4.1	1.27	0.05	1.22	1.23	1.23	1.2	1.2	1.22	0.02	1.1%
114	4.2	1.31	0.05	1.24	1.25	1.24	1.22	1.0	1.24	0.01	0.7%
118	5.3	1.31	0.07	1.28	1.28	1.26	1.16	4.6	1.24	0.06	3.0%
123	3.9	1.24	0.05	1.35	1.22	1.21	1.19	5.9	1.24	0.07	-2.0%
126	6.7	1.30	0.09	1.22	1.20	1.09	1.03	7.9	1.14	0.09	5.6%
153				1.10	1.14	1.15	1.11	2.1	1.13	0.02	1.3%
155	7.0	1.42	0.10	1.41	1.50	1.56	1.59	5.1	1.51	0.08	-1.2%
156/157	7.7	1.22	0.09	1.41	1.45	1.59	1.6	6.4	1.51	0.10	-3.9%
167	7.6	1.25	0.09	1.43	1.49	1.68	1.67	8.1	1.57	0.13	-4.6%
169	8.1	1.23	0.10	1.37	1.40	1.42	1.56	5.8	1.44	0.08	-2.4%
170				1.04	1.00	0.93	0.95	5.1	0.98	0.05	2.1%
180				1.28	1.16	1.12	1.14	6.3	1.17	0.07	-1.3%
188	8.5	1.27	0.11	1.12	1.18	1.23	0.94	11.4	1.12	0.13	5.3%
189	7.8	1.52	0.12	1.53	1.49	1.46	1.58	3.5	1.51	0.05	-1.8%
202	6.6	1.18	0.08	1.07	1.14	1.10	0.97	6.7	1.07	0.07	6.4%
205	3.9	1.27	0.05	1.26	1.20	1.22	1.24	2.0	1.23	0.02	-2.2%
206	11.3	0.97	0.11	0.90	0.87	0.95	0.83	5.9	0.89	0.05	-2.1%
208	10.2	1.27	0.13	1.22	1.19	1.19	1.17	1.7	1.19	0.02	-0.2%

1668A/B ICALs				Historica Data								PD from Mean
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean	
209	8.3	1.20	0.10	1.06	1.00	1.12	1.11	5.1	1.07	0.06	-6.8%	
<b>SS</b>												
28	3.6	1.05	0.04	0.98	1.07	1.10	1.11	5.6	1.07	0.06	0.8%	
111	4.0	1.05	0.04	0.90	1.01	1.08	1.03	7.5	1.00	0.07	0.2%	
178	3.9	0.71	0.03	0.62	0.63	0.57	0.62	4.4	0.61	0.03	3.1%	

Additional Ax	RSD	Mean	sd	PD from Historical Mean
PCB-1 2-MoCB	5.1	0.98	0.05	4.9%
PCB-2 3-MoCB	3.7	1.00	0.04	3.8%
PCB-3 4-MoCB	3.4	1.00	0.03	4.4%
PCB-4 22-DiCB	4.5	1.16	0.05	0.8%
PCB-10 26-DiCB	6.5	1.82	0.12	0.7%
PCB-9 25-DiCB	5.7	0.89	0.05	0.4%
PCB-7 24-DiCB	4.3	1.01	0.04	1.4%
PCB-6 23-DiCB	4.7	0.95	0.04	-0.2%
PCB-5 23-DiCB	4.7	0.96	0.05	1.4%
PCB-8 24-DiCB	4.3	0.99	0.04	-0.2%
PCB-14 35-DiCB	4.2	1.14	0.05	1.5%
PCB-11 33-DiCB	3.3	0.98	0.03	1.7%
PCB-13/12 34-/34-DiCB	2.8	0.99	0.03	3.2%
PCB-15 44-DiCB	3.9	1.03	0.04	4.5%
PCB-19 22'6-TrCB	2.3	1.11	0.03	-1.7%
PCB-30/18 246-/22'5-TrCB	2.6	1.48	0.04	-1.6%
PCB-17 22'4-TrCB	2.0	1.28	0.03	-1.9%
PCB-27 23'6-TrCB	3.8	1.72	0.07	-1.8%
PCB-24 236-TrCB	3.1	1.65	0.05	-0.7%
PCB-16 22'3-TrCB	2.6	0.97	0.03	-2.1%
PCB-32 24'6-TrCB	3.1	1.84	0.06	-2.8%
PCB-34 2'35-TrCB	6.4	1.05	0.07	-0.3%
PCB-23 235-TrCB	6.9	1.07	0.07	-0.8%
PCB-26/29 23'5-/245-TrCB	6.3	1.08	0.07	0.3%
PCB-25 23'4-TrCB	6.5	1.08	0.07	-0.3%
PCB-31 24'5-TrCB	7.2	1.13	0.08	-1.3%
PCB-28/20 244-/233'-TrCB	5.6	1.06	0.06	0.7%
PCB-21/33 234-/2'34-TrCB	6.0	1.09	0.06	0.3%
PCB-22 234'-TrCB	6.0	1.01	0.06	0.8%
PCB-36 33'5-TrCB	5.4	1.10	0.06	2.1%
PCB-39 34'5-TrCB	4.1	1.15	0.05	1.2%
PCB-38 345-TrCB	5.9	1.02	0.06	0.7%
PCB-35 33'4-TrCB	4.0	1.01	0.04	3.2%
PCB-37 344'-TrCB	4.2	1.06	0.04	4.3%
PCB-54 22'66'-TeCB	6.0	1.25	0.07	-3.0%
PCB-50/53 22'46-/22'56'-TeCB	2.0	0.87	0.02	-1.1%
PCB-45 22'36'-TeCB	2.2	0.75	0.02	-2.8%
PCB-51 22'46'-TeCB	3.2	0.87	0.03	0.6%
PCB-46 22'36'-TeCB	1.6	0.70	0.01	-0.3%
PCB-52 22'55'-TeCB	2.0	0.84	0.02	0.3%
PCB-73 23'5'6TeCB	1.4	1.11	0.02	-1.5%
PCB-43 22'35'-TeCB	4.5	0.70	0.03	3.0%
PCB-69/49 23'46-/22'45'-TeCB	2.1	1.02	0.02	-0.8%
PCB-48 22'45'-TeCB	1.7	0.85	0.01	0.4%
PCB-44/47/65 22'35'-/22'44'-	1.5	0.90	0.01	-0.8%
PCB-59/62/75 233'6-/2346-/24	2.4	1.15	0.03	-1.2%
PCB-42 22'34'-TeCB	2.9	0.78	0.02	-0.8%
PCB-41 22'34'-TeCB	2.2	0.71	0.02	2.1%
PCB-71/40 23'4'6/22'33'-TeCB	1.5	0.86	0.01	0.2%
PCB-64 2346'-TeCB	1.7	1.23	0.02	0.5%

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from
				JUL12	JUL12	9JUL2013	0DEC2013				Mean
PCB-72 23'55'-TeCB				1.13	1.14	1.17	1.21	3.0	1.16	0.03	-1.8%
PCB-68 23'45'-TeCB				1.21	1.21	1.26	1.28	2.8	1.24	0.04	-2.5%
PCB-57 23'3'5'-TeCB				1.10	1.11	1.12	1.16	2.3	1.12	0.03	-1.4%
PCB-58 23'3'5'-TeCB				1.11	1.10	1.16	1.18	3.4	1.14	0.04	-3.4%
PCB-67 23'45'-TeCB				1.15	1.16	1.20	1.26	4.2	1.19	0.05	-2.8%
PCB-63 23'4'5'-TeCB				1.22	1.22	1.25	1.30	3.1	1.25	0.04	-2.6%
PCB-61/70/74/76 23'45'-/23'4'5'				1.13	1.13	1.17	1.20	2.8	1.16	0.03	-2.3%
PCB-66 23'44'-TeCB				1.06	1.08	1.10	1.10	1.7	1.09	0.02	-0.9%
PCB-55 23'3'4'-TeCB				1.09	1.10	1.11	1.12	1.3	1.10	0.01	-0.6%
PCB-56 23'3'4'-TeCB				1.05	1.06	1.07	1.11	2.4	1.07	0.03	-1.7%
PCB-60 23'44'-TeCB				1.12	1.11	1.15	1.14	1.5	1.13	0.02	-1.5%
PCB-80 33'55'-TeCB				1.26	1.25	1.27	1.31	2.1	1.27	0.03	-1.5%
PCB-79 33'45'-TeCB				1.26	1.23	1.28	1.31	2.6	1.27	0.03	-2.9%
PCB-78 33'45'-TeCB				1.09	1.08	1.05	1.06	1.6	1.07	0.02	0.9%
PCB-104 22'466'-PeCB				1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
PCB-96 22'366'-PeCB				0.98	1.08	1.12	1.23	9.5	1.10	0.10	-2.4%
PCB-103 22'45'6'-PeCB				0.80	0.90	0.95	0.93	7.2	0.90	0.06	0.6%
PCB-94 22'356'-PeCB				0.70	0.78	0.81	0.80	6.6	0.77	0.05	0.4%
PCB-95 22'35'6'-PeCB				0.75	0.83	0.88	0.87	7.5	0.83	0.06	-0.7%
PCB-100/93 22'44'6'-/22'356'-P				0.76	0.84	0.90	0.86	6.9	0.84	0.06	0.2%
PCB-102 22'456'-PeCB				0.82	0.90	0.98	0.97	8.1	0.92	0.07	-1.9%
PCB-98 22'3'46'-PeCB				0.69	0.77	0.80	0.76	5.9	0.76	0.04	2.4%
PCB-88 22'346'-PeCB				0.67	0.79	0.77	0.80	7.8	0.76	0.06	4.7%
PCB-91 22'34'6'-PeCB				0.84	0.88	1.00	0.94	7.5	0.91	0.07	-3.8%
PCB-84 22'33'6'-PeCB				0.65	0.71	0.72	0.72	5.2	0.70	0.04	1.4%
PCB-89 22'346'-PeCB				0.68	0.76	0.78	0.76	6.0	0.75	0.04	1.9%
PCB-121 23'45'6'-PeCB				1.02	1.14	1.20	1.20	7.4	1.14	0.08	0.2%
PCB-92 22'355'-PeCB				0.73	0.80	0.84	0.82	6.0	0.80	0.05	0.2%
PCB-113/90/101 23'3'5'6'-/22'3				0.85	0.93	0.99	0.99	7.0	0.94	0.07	-0.9%
PCB-83 22'33'5'-PeCB				0.63	0.71	0.72	0.71	5.7	0.69	0.04	2.8%
PCB-99 22'44'5'-PeCB				0.82	0.87	0.95	0.92	6.5	0.89	0.06	-2.1%
PCB-112 23'3'56'-PeCB				1.01	1.13	1.17	1.17	6.7	1.12	0.07	0.7%
PCB-108/119/86/97/125/87 233				0.87	0.95	1.01	0.98	6.4	0.95	0.06	-0.1%
PCB-117 23'4'56'-PeCB				0.96	1.04	1.05	1.14	7.2	1.05	0.08	-0.7%
PCB-116/85 23'456'-/22'344'-Pe				0.87	0.97	1.03	0.94	7.0	0.95	0.07	2.2%
PCB-110 23'3'4'6'-PeCB				0.95	1.02	1.11	1.12	7.7	1.05	0.08	-2.6%
PCB-115 23'44'6'-PeCB				1.02	1.16	1.21	1.16	6.9	1.14	0.08	1.8%
PCB-82 22'33'4'-PeCB				0.63	0.69	0.72	0.70	5.5	0.68	0.04	0.9%
PCB-111 23'3'55'-PeCB				1.05	1.15	1.22	1.22	7.0	1.16	0.08	-0.5%
PCB-120 23'455'-PeCB				1.05	1.16	1.22	1.21	6.5	1.16	0.08	-0.1%
PCB-107/124 23'3'4'5'-/2'3455'				0.99	1.07	1.11	1.10	5.3	1.07	0.06	0.6%
PCB-109 23'3'46'-PeCB				1.05	1.14	1.18	1.25	7.1	1.16	0.08	-1.2%
PCB-106 23'3'45'-PeCB				0.98	1.07	1.11	1.11	5.6	1.07	0.06	0.1%
PCB-122 2'33'45'-PeCB				1.01	1.00	1.01	0.99	1.0	1.00	0.01	-0.2%
PCB-127 33'455'-PeCB				1.12	1.10	1.08	1.10	1.5	1.10	0.02	-0.1%
PCB-155 22'44'66'-HxCB				1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
PCB-152 22'3566'-HxCB				1.00	1.01	1.14	1.17	8.0	1.08	0.09	-6.4%
PCB-150 22'34'66'-HxCB				1.03	1.00	1.15	1.18	7.9	1.09	0.09	-8.0%
PCB-136 22'33'66'-HxCB				0.95	0.95	1.07	1.07	6.8	1.01	0.07	-5.7%
PCB-145 22'3466'HxCB				0.98	0.96	1.09	1.11	7.4	1.03	0.08	-7.0%
PCB-148 22'34'56'-HxCB				0.96	0.97	1.12	1.18	10.5	1.06	0.11	-8.2%
PCB-151/135 22'355'6'-/22'33'				0.94	0.96	1.11	1.14	9.8	1.04	0.10	-7.2%
PCB-154 22'44'5'6'-HxCB				1.05	1.09	1.26	1.34	11.7	1.19	0.14	-8.1%
PCB-144 22'345'6'-HxCB				0.96	0.98	1.13	1.18	10.1	1.06	0.11	-7.7%
PCB-147/149 22'34'56'-/22'34'				0.96	0.99	1.14	1.18	10.3	1.07	0.11	-7.8%
PCB-134 22'33'56'-HxCB				0.78	0.80	0.90	0.92	8.1	0.85	0.07	-5.8%
PCB-143 22'3456'-HxCB				0.92	0.95	1.09	1.13	10.0	1.02	0.10	-6.8%
PCB-139/140 22'344'6'-/22'344'				0.99	1.00	1.14	1.21	10.1	1.09	0.11	-7.9%
PCB-131 22'33'46'-HxCB				0.84	0.85	0.98	1.03	10.4	0.93	0.10	-8.2%
PCB-142 22'3456'-HxCB				0.86	0.88	0.98	0.99	7.4	0.93	0.07	-5.7%
PCB-132 22'33'46'-HxCB				0.87	0.89	1.02	1.03	8.8	0.95	0.08	-6.7%
PCB-133 22'33'55'-HxCB				0.92	0.91	1.04	1.13	10.2	1.00	0.10	-8.7%

1668A/B ICALs		Historica Data									289 of 562
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean
PCB-165 233'55'6'-HxCB				1.12	1.13	1.32	1.41	11.4	1.24	0.14	-9.0%
PCB-146 22'34'55'-HxCB				0.99	1.01	1.16	1.20	10.0	1.09	0.11	-7.6%
PCB-161 233'45'6'-HxCB				1.24	1.25	1.41	1.52	9.8	1.36	0.13	-7.6%
PCB-153/168 22'44'55'-/23'44'				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
PCB-141 22'3455'-HxCB				0.92	0.93	1.06	1.09	8.9	1.00	0.09	-7.3%
PCB-130 22'33'45'-HxCB				0.82	0.85	0.95	0.97	8.2	0.90	0.07	-5.7%
PCB-137 22'344'5'-HxCB				1.00	1.04	1.08	1.16	6.3	1.07	0.07	-2.7%
PCB-164 233'4'5'6'-HxCB				1.21	1.22	1.45	1.50	11.2	1.35	0.15	-9.1%
PCB-163/138/129 233'4'56'-/22'				1.01	1.02	1.14	1.19	8.1	1.09	0.09	-6.2%
PCB-160 233'456'-HxCB				1.18	1.21	1.32	1.52	11.9	1.31	0.16	-7.6%
PCB-158 233'44'6'-HxCB				1.30	1.34	1.50	1.66	11.4	1.45	0.17	-7.7%
PCB-128/166 22'33'44'-/2344'5				0.91	0.90	0.95	0.90	2.7	0.92	0.02	-1.9%
PCB-159 233'455'-HxCB				1.07	1.06	1.14	1.11	3.0	1.10	0.03	-3.0%
PCB-162 233'4'55'-HxCB				1.09	1.08	1.14	1.07	2.7	1.09	0.03	-1.7%
PCB-188 22'34'566'-HpCB				1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
PCB-179 22'33'566'-HpCB				0.95	0.97	0.92	1.16	10.8	1.00	0.11	-3.1%
PCB-184 22'344'66'-HpCB				0.94	0.93	0.90	1.13	10.6	0.98	0.10	-4.6%
PCB-176 22'33'466'-HpCB				1.05	1.05	1.00	1.23	9.4	1.08	0.10	-3.2%
PCB-186 22'34566'-HpCB				0.98	0.98	0.94	1.13	8.3	1.01	0.08	-2.6%
PCB-178 22'33'55'6'-HpCB				0.73	0.74	0.69	0.84	8.6	0.75	0.06	-1.8%
PCB-175 22'33'45'6'-HpCB				0.95	1.01	1.09	1.07	6.1	1.03	0.06	-2.0%
PCB-187 22'34'55'6'-HpCB				0.99	1.06	1.17	1.14	7.4	1.09	0.08	-2.5%
PCB-182 22'344'56'-HpCB				1.02	1.11	1.19	1.18	6.9	1.12	0.08	-1.2%
PCB-183 22'344'5'6'-HpCB				1.06	1.13	1.17	1.20	5.4	1.14	0.06	-0.6%
PCB-185 22'3455'6'-HpCB				0.95	1.02	1.13	1.06	7.3	1.04	0.08	-2.0%
PCB-174 22'33'456'-HpCB				0.83	0.93	0.99	0.99	8.0	0.93	0.07	-0.7%
PCB-177 22'33'4'56'-HpCB				0.85	0.91	0.97	0.95	5.7	0.92	0.05	-1.3%
PCB-181 22'344'56'-HpCB				0.98	1.06	1.10	1.09	4.9	1.06	0.05	0.3%
PCB-171/173 22'33'44'6'-/22'3				0.85	0.93	0.96	0.95	5.4	0.92	0.05	0.6%
PCB-172 22'33'455'-HpCB				0.88	0.95	0.99	0.99	5.5	0.95	0.05	0.3%
PCB-192 233'455'6'-HpCB				1.12	1.24	1.26	1.29	6.0	1.23	0.07	1.0%
PCB-180/193 22'344'55'-/233'				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
PCB-191 233'44'5'6'-HpCB				1.20	1.30	1.32	1.40	6.4	1.31	0.08	-0.3%
PCB-170 22'33'44'5'-HpCB				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
PCB-190 233'44'56'-HpCB				1.42	1.45	1.54	1.66	7.2	1.52	0.11	-4.3%
PCB-202 22'33'55'66'-OcCB				0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
PCB-201 22'33'45'66'-OcCB				1.04	1.02	1.07	1.22	8.3	1.09	0.09	-6.2%
PCB-204 22'344'566'-OcCB				0.99	0.98	1.02	1.12	6.3	1.03	0.07	-4.9%
PCB-197 22'33'44'66'-OcCB				1.03	1.06	1.13	1.19	6.3	1.10	0.07	-3.6%
PCB-200 22'33'4566'-OcCB				1.02	0.96	1.02	1.11	6.0	1.03	0.06	-6.4%
PCB-198/199 22'33'455'6'-/22'				0.74	0.72	0.73	0.81	5.7	0.75	0.04	-4.2%
PCB-196 22'33'44'56'-OcCB				0.77	0.73	0.76	0.83	5.5	0.77	0.04	-5.3%
PCB-203 22'344'55'6'-OcCB				0.80	0.76	0.79	0.87	5.7	0.80	0.05	-5.1%
PCB-195 22'33'44'56'-OcCB				0.79	0.80	0.82	0.77	2.7	0.80	0.02	0.5%
PCB-194 22'33'44'55'-OcCB				0.87	0.87	0.89	0.84	2.3	0.87	0.02	0.7%
PCB-205 233'44'55'6'-OcCB				1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
PCB-208 22'33'455'66'-NoCB				1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
PCB-207 22'33'44'566'-NoCB				1.07	1.06	1.10	1.19	5.4	1.10	0.06	-4.3%
PCB-206 22'33'44'55'6'-NoCB				0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.0%

## SGS Analytical Perspectives — Run Log

Project: 131220 QC MM7

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	131220X02	Tray1:37	CS0_131220_PCB_XA	1.00	SIL 13-79-6	LKB	067-110	20-Dec-2013	14:56:33
3	131220X03	Tray1:38	CS1_131220_PCB_XA	1.00	SIL 13-79-5	LKB	983-753	20-Dec-2013	16:14:56
4	131220X04	Tray1:39	CS2_131220_PCB_XA	1.00	SIL 13-79-4	LKB	288-489	20-Dec-2013	17:09:38
5	131220X05	Tray1:40	CS3_131220_PCB_XA	1.00	SIL 13-79-3	LKB	297-225	20-Dec-2013	18:04:38
6	131220X06	Tray1:41	CS4_131220_PCB_XA	1.00	SIL 13-79-2	LKB	186-257	20-Dec-2013	18:59:38
7	131220X07	Tray1:02	SBS_131220_PCB_XB	1.00	SIL 9-42-1	LKB	307-094	20-Dec-2013	19:54:39
8	131220X08	Tray1:42	CS5_131220_PCB_XA	1.00	SIL 13-84-1	LKB	807-075	20-Dec-2013	20:49:35
9	131220X09	Tray1:02	SBS_131220_PCB_XC	1.00	SIL 9-42-1	LKB	023-880	20-Dec-2013	21:57:30
10	131220X10	Tray1:02	SBS_131220_PCB_XD	1.00	SIL 9-42-1	LKB	979-518	20-Dec-2013	22:52:16

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	6.82E+05	0.76 Y	1.15	1.17	1.8%	
PCB-81 344'5'-TeCB	32.64	6.25E+05	0.76 Y	1.12	1.08	-3.1%	
PCB-105 233'44'-PeCB	36.11	5.30E+05	0.63 Y	1.11	1.13	1.5%	
PCB-114 2344'5'-PeCB	35.57	5.44E+05	0.67 Y	1.20	1.14	-5.0%	
PCB-118 23'44'5'-PeCB	35.10	5.47E+05	0.67 Y	1.19	1.20	0.6%	
PCB-123 23'44'5'-PeCB	34.82	5.49E+05	0.63 Y	1.21	1.20	-0.6%	
PCB-126 33'44'5'-PeCB	38.73	4.31E+05	0.61 Y	1.11	1.05	-5.2%	
PCB-156/157 ...-HxCB	41.28	8.79E+05	1.18 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	4.81E+05	1.11 Y	1.16	1.11	-4.2%	
PCB-169 33'44'55'-HxCB	44.00	4.43E+05	1.39 Y	1.12	1.12	-0.5%	
PCB-189 233'44'55'-HpCB	46.13	4.42E+05	1.03 Y	1.07	1.08	0.2%	
PCB-209 DeCB	51.25	3.36E+05	1.21 Y	1.11	1.18	6.0%	
ES PCB-1	12.05	2.32E+08	3.31 Y	1.19	1.25	5.1%	
ES PCB-3	14.37	2.09E+08	3.36 Y	1.09	1.12	3.5%	
ES PCB-4	14.63	9.70E+07	1.64 Y	0.52	0.52	0.1%	
ES PCB-15	20.39	1.92E+08	1.56 Y	1.04	1.04	-0.4%	
ES PCB-19	17.75	9.22E+07	1.08 Y	0.51	0.50	-1.7%	
ES PCB-37	26.75	1.42E+08	1.09 Y	1.66	1.69	1.7%	
ES PCB-54	20.68	7.28E+07	0.79 Y	0.86	0.86	0.4%	
ES PCB-77	33.10	1.16E+08	0.80 Y	1.38	1.38	-0.1%	
ES PCB-81	32.62	1.15E+08	0.81 Y	1.37	1.37	0.2%	
ES PCB-104	25.69	6.25E+07	1.64 Y	0.80	0.82	1.5%	
ES PCB-105	36.09	9.38E+07	1.62 Y	1.20	1.22	1.8%	
ES PCB-114	35.55	9.51E+07	1.64 Y	1.22	1.24	1.8%	
ES PCB-118	35.08	9.14E+07	1.64 Y	1.16	1.19	2.9%	
ES PCB-123	34.80	9.13E+07	1.59 Y	1.19	1.19	0.4%	
ES PCB-126	38.71	8.22E+07	1.56 Y	1.03	1.07	4.3%	
ES PCB-153	36.67	5.84E+07	1.32 Y	1.11	1.14	2.1%	
ES PCB-155	30.66	8.51E+07	1.30 Y	1.59	1.66	4.3%	
ES PCB-156/157	41.26	1.64E+08	1.31 Y	1.60	1.60	0.0%	
ES PCB-167	40.28	8.65E+07	1.29 Y	1.67	1.68	0.9%	
ES PCB-169	43.98	7.92E+07	1.29 Y	1.56	1.54	-1.0%	
ES PCB-170	43.50	4.71E+07	1.09 Y	0.95	0.92	-2.5%	
ES PCB-180	42.43	5.69E+07	1.07 Y	1.14	1.11	-2.0%	
ES PCB-188	35.54	4.97E+07	1.11 Y	0.94	0.97	2.9%	
ES PCB-189	46.11	8.21E+07	1.04 Y	1.58	1.61	1.7%	
ES PCB-202	40.09	4.94E+07	0.92 Y	0.97	0.96	-0.9%	
ES PCB-205	48.28	6.33E+07	0.90 Y	1.24	1.24	-0.3%	
ES PCB-206	49.75	4.24E+07	0.81 Y	0.83	0.83	0.3%	
ES PCB-208	45.73	5.90E+07	0.81 Y	1.17	1.16	-1.6%	
ES PCB-209	51.23	5.69E+07	1.19 Y	1.11	1.12	0.5%	



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.59E+08	1.09 Y	1.11	1.12	0.5%	
SS PCB-111	33.12	9.52E+07	1.60 Y	1.03	1.04	1.3%	
SS PCB-178	38.11	3.17E+07	1.06 Y	0.62	0.64	3.0%	
CS PCB-28	23.18	1.59E+08	1.09 Y	1.85	1.89	2.2%	
CS PCB-111	33.12	9.52E+07	1.60 Y	1.22	1.24	1.7%	
CS PCB-178	38.11	3.17E+07	1.06 Y	0.58	0.62	6.0%	
JS PCB-9	16.63	1.86E+08	1.57 Y	-	-	-	
JS PCB-52	24.81	8.42E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	7.67E+07	1.63 Y	-	-	-	
JS PCB-138	37.74	5.14E+07	1.34 Y	-	-	-	
JS PCB-194	47.88	5.10E+07	0.93 Y	-	-	-	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	3.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	0.9%	
PCB-2 3-MoCB	14.20	1.07E+06	3.22 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-10 26'-DiCB	14.83	9.26E+05	0.00 S	1.98	1.91	-3.6%	
PCB-9 25'-DiCB	16.65	8.91E+05	0.00 S	0.95	0.93	-2.0%	
PCB-7 24'-DiCB	16.82	9.13E+05	0.00 S	1.05	0.95	-9.2%	
PCB-6 23'-DiCB	17.04	9.28E+05	0.00 S	1.00	0.97	-3.0%	
PCB-5 23'-DiCB	17.35	9.94E+05	0.00 S	1.00	1.03	3.2%	
PCB-8 24'-DiCB	17.47	1.02E+06	0.00 S	1.03	1.07	3.2%	
PCB-14 35'-DiCB	19.04	1.10E+06	0.00 S	1.18	1.14	-3.4%	
PCB-11 33'-DiCB	19.83	9.44E+05	0.00 S	1.01	0.98	-2.8%	
PCB-13/12 34'/34'-DiCB	20.12	1.69E+06	0.00 S	0.99	0.88	-11.2%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-30/18 246'/22'5'-TrCB	19.54	1.37E+06	1.04 Y	1.54	1.49	-3.2%	
PCB-17 22'4'-TrCB	19.95	5.65E+05	1.04 Y	1.31	1.23	-6.1%	
PCB-27 23'6'-TrCB	20.14	8.14E+05	1.08 Y	1.82	1.77	-2.9%	
PCB-24 236'-TrCB	20.27	7.72E+05	1.06 Y	1.72	1.67	-2.9%	
PCB-16 22'3'-TrCB	20.37	4.55E+05	1.10 Y	1.01	0.99	-2.0%	
PCB-32 24'6'-TrCB	20.86	8.78E+05	1.08 Y	1.92	1.90	-0.8%	
PCB-34 23'5'-TrCB	22.01	7.89E+05	1.08 Y	1.14	1.11	-2.3%	
PCB-23 235'-TrCB	22.16	8.53E+05	0.94 Y	1.16	1.20	3.8%	
PCB-26/29 23'5'/245'-TrCB	22.45	1.63E+06	1.01 Y	1.17	1.15	-2.1%	
PCB-25 23'4'-TrCB	22.65	8.01E+05	0.97 Y	1.16	1.13	-2.7%	
PCB-31 24'5'-TrCB	22.92	8.89E+05	1.01 Y	1.23	1.25	2.0%	
PCB-28/20 244'/233'-TrCB	23.21	1.61E+06	1.02 Y	1.13	1.13	-0.1%	
PCB-21/33 234'/23'4'-TrCB	23.39	1.63E+06	0.98 Y	1.17	1.15	-2.4%	
PCB-22 234'-TrCB	23.77	7.71E+05	1.00 Y	1.08	1.08	0.4%	
PCB-36 33'5'-TrCB	25.16	8.01E+05	1.00 Y	1.17	1.13	-3.7%	
PCB-39 34'5'-TrCB	25.48	8.42E+05	1.02 Y	1.21	1.18	-2.3%	
PCB-38 345'-TrCB	26.02	7.61E+05	0.93 Y	1.10	1.07	-3.2%	
PCB-35 33'4'-TrCB	26.41	7.19E+05	1.01 Y	1.04	1.01	-2.8%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	1.02E+06	0.81 Y	0.88	0.89	1.3%	
PCB-45 22'36'-TeCB	23.29	4.52E+05	0.79 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.37	4.59E+05	0.83 Y	0.86	0.80	-7.3%	
PCB-46 22'36'-TeCB	23.57	4.01E+05	0.83 Y	0.70	0.70	-0.4%	
PCB-52 22'55'-TeCB	24.83	4.90E+05	0.76 Y	0.84	0.85	0.7%	
PCB-73 23'5'6'-TeCB	24.96	6.54E+05	0.81 Y	1.11	1.13	2.0%	
PCB-43 22'35'-TeCB	25.06	3.93E+05	0.85 Y	0.71	0.68	-4.1%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	1.15E+06	0.76 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	4.76E+05	0.82 Y	0.84	0.83	-1.5%	
PCB-44/47/65 ...-TeCB	25.76	1.54E+06	0.78 Y	0.90	0.89	-1.8%	
PCB-59/62/75 ...-TeCB	26.03	1.95E+06	0.80 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.20	4.38E+05	0.81 Y	0.76	0.76	-0.5%	
PCB-41 22'34'-TeCB	26.54	3.93E+05	0.87 Y	0.69	0.68	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	9.69E+05	0.82 Y	0.86	0.84	-2.2%	
PCB-64 234'6'-TeCB	26.83	6.74E+05	0.82 Y	1.22	1.17	-4.3%	
PCB-72 23'55'-TeCB	27.55	6.87E+05	0.78 Y	1.21	1.19	-1.5%	
PCB-68 23'45'-TeCB	27.80	7.26E+05	0.84 Y	1.28	1.26	-1.4%	
PCB-57 233'5'-TeCB	28.18	6.81E+05	0.73 Y	1.16	1.18	1.5%	
PCB-58 233'5'-TeCB	28.38	6.76E+05	0.76 Y	1.18	1.17	-0.6%	
PCB-67 23'45'-TeCB	28.54	7.09E+05	0.78 Y	1.26	1.23	-2.3%	
PCB-63 234'5'-TeCB	28.77	7.50E+05	0.82 Y	1.30	1.30	0.2%	
PCB-61/70/74/76 ...-TeCB	29.06	2.77E+06	0.77 Y	1.20	1.20	0.2%	
PCB-66 23'44'-TeCB	29.34	6.11E+05	0.79 Y	1.10	1.06	-3.9%	
PCB-55 233'4'-TeCB	29.49	6.26E+05	0.78 Y	1.12	1.09	-3.1%	
PCB-56 233'4'-TeCB	29.93	6.53E+05	0.82 Y	1.11	1.13	2.0%	
PCB-60 2344'-TeCB	30.12	6.55E+05	0.79 Y	1.14	1.13	0.0%	
PCB-80 33'55'-TeCB	30.44	7.47E+05	0.82 Y	1.31	1.30	-1.4%	
PCB-79 33'45'-TeCB	31.77	7.25E+05	0.81 Y	1.31	1.26	-3.8%	
PCB-78 33'45'-TeCB	32.26	6.00E+05	0.82 Y	1.06	1.04	-2.0%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-96 22'366'-PeCB	26.03	3.51E+05	0.75 N	1.23	1.12	-8.6%	
PCB-103 22'45'6'-PeCB	27.72	4.14E+05	0.64 Y	0.93	0.91	-2.6%	
PCB-94 22'356'-PeCB	27.91	3.59E+05	0.70 Y	0.80	0.79	-1.5%	
PCB-95 22'35'6'-PeCB	28.29	4.07E+05	0.58 Y	0.87	0.89	3.0%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	7.64E+05	0.61 Y	0.86	0.84	-3.1%	
PCB-102 22'456'-PeCB	28.62	4.42E+05	0.64 Y	0.97	0.97	0.0%	
PCB-98 22'34'6'-PeCB	28.70	3.31E+05	0.63 Y	0.76	0.73	-4.3%	
PCB-88 22'346'-PeCB	29.00	4.40E+05	0.66 Y	0.80	0.96	20.8%	
PCB-91 22'34'6'-PeCB	29.06	3.45E+05	0.56 Y	0.94	0.76	-19.9%	
PCB-84 22'33'6'-PeCB	29.25	3.22E+05	0.60 Y	0.72	0.71	-1.3%	
PCB-89 22'346'-PeCB	29.67	3.31E+05	0.70 Y	0.76	0.73	-4.9%	
PCB-121 23'45'6'-PeCB	30.01	5.39E+05	0.64 Y	1.20	1.18	-1.7%	
PCB-92 22'355'-PeCB	30.33	3.73E+05	0.62 Y	0.82	0.82	-0.4%	
PCB-113/90/101 ...-PeCB	30.82	1.35E+06	0.62 Y	0.99	0.98	-0.3%	
PCB-83 22'33'5'-PeCB	31.26	3.50E+05	0.64 Y	0.71	0.77	7.3%	
PCB-99 22'44'5'-PeCB	31.36	4.00E+05	0.61 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.46	5.12E+05	0.65 Y	1.17	1.12	-4.0%	
PCB-108/119/86/97/125...-PeCB	31.80	2.69E+06	0.63 Y	0.98	0.98	0.2%	
PCB-117 234'56'-PeCB	32.33	4.64E+05	0.55 Y	1.14	1.02	-10.6%	
PCB-116/85 23456/22'344'-PeCB	32.43	9.28E+05	0.58 Y	0.94	1.02	8.1%	
PCB-110 233'4'6'-PeCB	32.54	4.96E+05	0.62 Y	1.12	1.09	-2.7%	

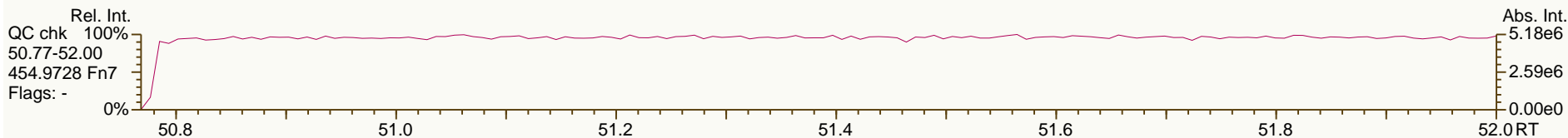
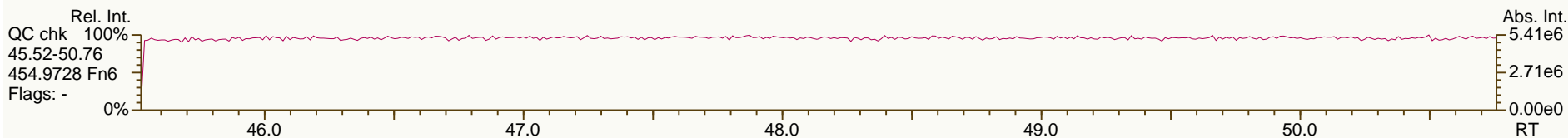
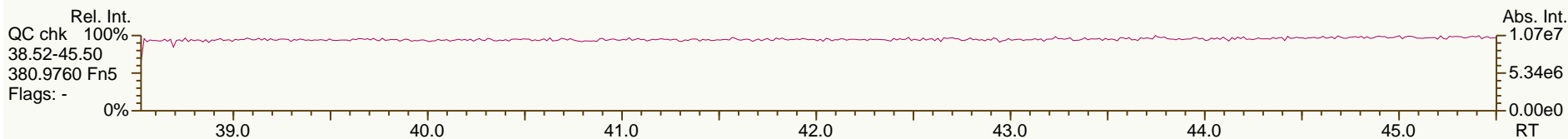
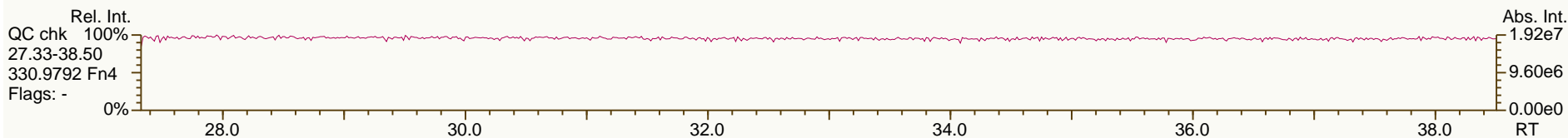
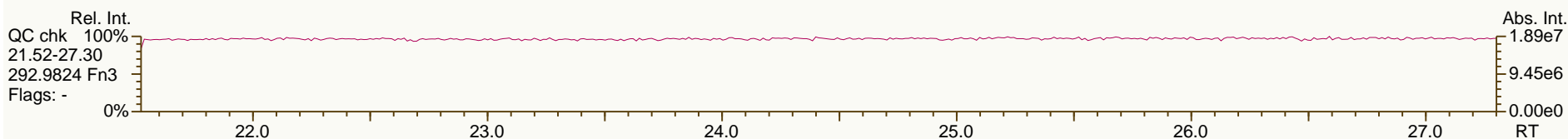
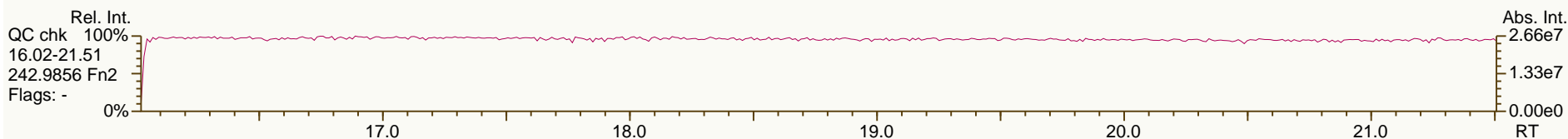
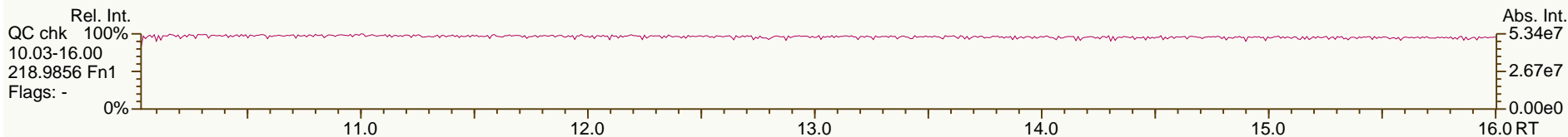
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	5.39E+05	0.59 Y	1.16	1.18	1.18	
PCB-82 22'33'4-PeCB	32.83	3.15E+05	0.59 Y	0.70	0.69	-1.1%	
PCB-111 233'55'-PeCB	33.14	5.61E+05	0.65 Y	1.22	1.23	0.6%	
PCB-120 23'455'-PeCB	33.54	5.37E+05	0.66 Y	1.21	1.18	-2.8%	
PCB-107/124 ...-PeCB	34.51	9.78E+05	0.64 Y	1.10	1.07	-2.4%	
PCB-109 233'46-PeCB	34.72	5.73E+05	0.63 Y	1.25	1.26	0.2%	
PCB-106 233'45-PeCB	34.94	5.10E+05	0.69 Y	1.11	1.12	1.0%	
PCB-122 233'4'5'-PeCB	35.40	4.64E+05	0.65 Y	0.99	0.97	-2.0%	
PCB-127 33'455'-PeCB	37.35	5.10E+05	0.62 Y	1.10	1.09	-0.8%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-152 22'3566'-HxCB	30.84	4.93E+05	1.27 Y	1.17	1.16	-1.3%	
PCB-150 22'34'66'-HxCB	30.98	5.01E+05	1.36 Y	1.18	1.18	0.1%	
PCB-136 22'33'66'-HxCB	31.29	4.28E+05	1.35 Y	1.07	1.01	-5.7%	
PCB-145 22'3466'-HxCB	31.56	4.79E+05	1.26 Y	1.11	1.13	0.9%	
PCB-148 22'34'56'-HxCB	32.83	3.33E+05	1.20 Y	1.18	1.14	-3.7%	
PCB-151/135 ...-HxCB	33.35	6.47E+05	1.21 Y	1.14	1.11	-2.9%	
PCB-154 22'44'56'-HxCB	33.56	4.03E+05	1.25 Y	1.34	1.38	2.8%	
PCB-144 22'345'6-HxCB	33.83	3.56E+05	1.23 Y	1.18	1.22	3.1%	
PCB-147/149 ...-HxCB	34.13	6.56E+05	1.34 Y	1.18	1.12	-4.6%	
PCB-134 22'33'56-HxCB	34.30	2.84E+05	1.23 Y	0.92	0.97	5.0%	
PCB-143 22'3456'-HxCB	34.39	3.14E+05	1.30 Y	1.13	1.07	-4.7%	
PCB-139/140 ...-HxCB	34.65	7.00E+05	1.27 Y	1.21	1.20	-0.6%	
PCB-131 22'33'46-HxCB	34.82	2.97E+05	1.27 Y	1.03	1.02	-0.8%	
PCB-142 22'3456-HxCB	34.97	2.79E+05	1.25 Y	0.99	0.96	-3.4%	
PCB-132 22'33'46'-HxCB	35.21	3.02E+05	1.27 Y	1.03	1.03	0.2%	
PCB-133 22'33'55'-HxCB	35.61	3.31E+05	1.25 Y	1.13	1.13	0.1%	
PCB-165 233'55'6-HxCB	35.95	4.11E+05	1.27 Y	1.41	1.41	-0.2%	
PCB-146 22'34'55'-HxCB	36.16	3.49E+05	1.21 Y	1.20	1.19	-0.7%	
PCB-161 233'45'6-HxCB	36.28	4.37E+05	1.25 Y	1.52	1.50	-1.6%	
PCB-153/168 ...-HxCB	36.72	8.08E+05	1.27 Y	1.46	1.38	-5.0%	
PCB-141 22'3455'-HxCB	36.86	3.22E+05	1.27 Y	1.09	1.10	1.3%	
PCB-130 22'33'45'-HxCB	37.20	2.84E+05	1.16 Y	0.97	0.97	0.0%	
PCB-137 22'344'5-HxCB	37.41	3.47E+05	1.24 Y	1.16	1.19	2.0%	
PCB-164 233'4'5'6-HxCB	37.49	3.94E+05	1.20 Y	1.50	1.35	-10.0%	
PCB-163/138/129 ...-HxCB	37.78	1.03E+06	1.26 Y	1.19	1.18	-1.1%	
PCB-160 233'456-HxCB	37.92	4.35E+05	1.23 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.10	4.94E+05	1.30 Y	1.66	1.69	1.8%	
PCB-128/166 ...-HxCB	38.84	7.41E+05	1.33 Y	0.90	0.86	-4.7%	
PCB-159 233'455'-HxCB	39.65	4.73E+05	1.12 Y	1.11	1.09	-1.9%	
PCB-162 233'4'55'-HxCB	39.89	4.43E+05	1.33 Y	1.07	1.03	-4.3%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-179 22'33'566'-HpCB	35.84	2.95E+05	1.06 Y	1.16	1.19	2.3%	
PCB-184 22'344'66'-HpCB	36.31	2.83E+05	0.94 Y	1.13	1.14	1.1%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.00E+05	1.06 Y	1.23	1.21	-1.8%	
PCB-186 22'34566'-HpCB	37.00	2.82E+05	1.10 Y	1.13	1.14	1.0%	
PCB-178 22'33'55'6'-HpCB	38.13	2.19E+05	1.14 Y	0.84	0.88	4.6%	
PCB-175 22'33'45'6'-HpCB	38.68	2.90E+05	1.08 Y	1.07	1.02	-4.9%	
PCB-187 22'34'55'6'-HpCB	38.91	3.08E+05	1.11 Y	1.14	1.08	-4.8%	
PCB-182 22'344'56'-HpCB	39.09	3.10E+05	1.13 Y	1.18	1.09	-7.2%	
PCB-183 22'344'5'6'-HpCB	39.43	3.29E+05	1.06 Y	1.20	1.16	-4.0%	
PCB-185 22'3455'6'-HpCB	39.52	2.70E+05	1.04 Y	1.06	0.95	-10.4%	
PCB-174 22'33'456'-HpCB	39.63	2.63E+05	1.16 Y	0.99	0.93	-6.3%	
PCB-177 22'33'45'6'-HpCB	40.00	2.64E+05	1.06 Y	0.95	0.93	-2.5%	
PCB-181 22'344'56'-HpCB	40.35	2.93E+05	1.17 Y	1.09	1.03	-5.4%	
PCB-171/173 ...-HpCB	40.54	5.11E+05	1.09 Y	0.95	0.90	-5.3%	
PCB-172 22'33'455'-HpCB	41.89	2.73E+05	1.07 Y	0.99	0.96	-3.0%	
PCB-192 233'455'6'-HpCB	42.14	3.33E+05	1.10 Y	1.29	1.17	-9.0%	
PCB-180/193 ...-HpCB	42.41	7.15E+05	1.02 Y	1.26	1.26	-0.4%	
PCB-191 233'44'5'6'-HpCB	42.74	3.99E+05	1.10 Y	1.40	1.41	0.7%	
PCB-170 22'33'44'5'-HpCB	43.51	2.56E+05	1.10 Y	1.14	1.09	-4.3%	
PCB-190 233'44'56'-HpCB	43.97	3.84E+05	1.02 Y	1.66	1.63	-1.8%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-201 22'33'45'66'-OcCB	40.90	2.87E+05	1.04 N	1.22	1.16	-4.7%	
PCB-204 22'344'566'-OcCB	41.48	2.72E+05	0.90 Y	1.12	1.10	-1.4%	
PCB-197 22'33'44'66'-OcCB	41.67	3.10E+05	0.94 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.76	2.54E+05	1.01 Y	1.11	1.03	-7.2%	
PCB-198/199 ...-OcCB	44.08	3.97E+05	1.02 Y	0.81	0.80	-0.6%	
PCB-196 22'33'44'56'-OcCB	44.66	2.07E+05	0.90 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.83	2.16E+05	0.86 Y	0.87	0.87	0.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.51E+05	0.94 Y	0.77	0.79	3.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.77E+05	0.96 Y	0.84	0.88	3.8%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-207 22'33'44'566'-NoCB	46.54	3.55E+05	0.76 Y	1.19	1.20	1.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

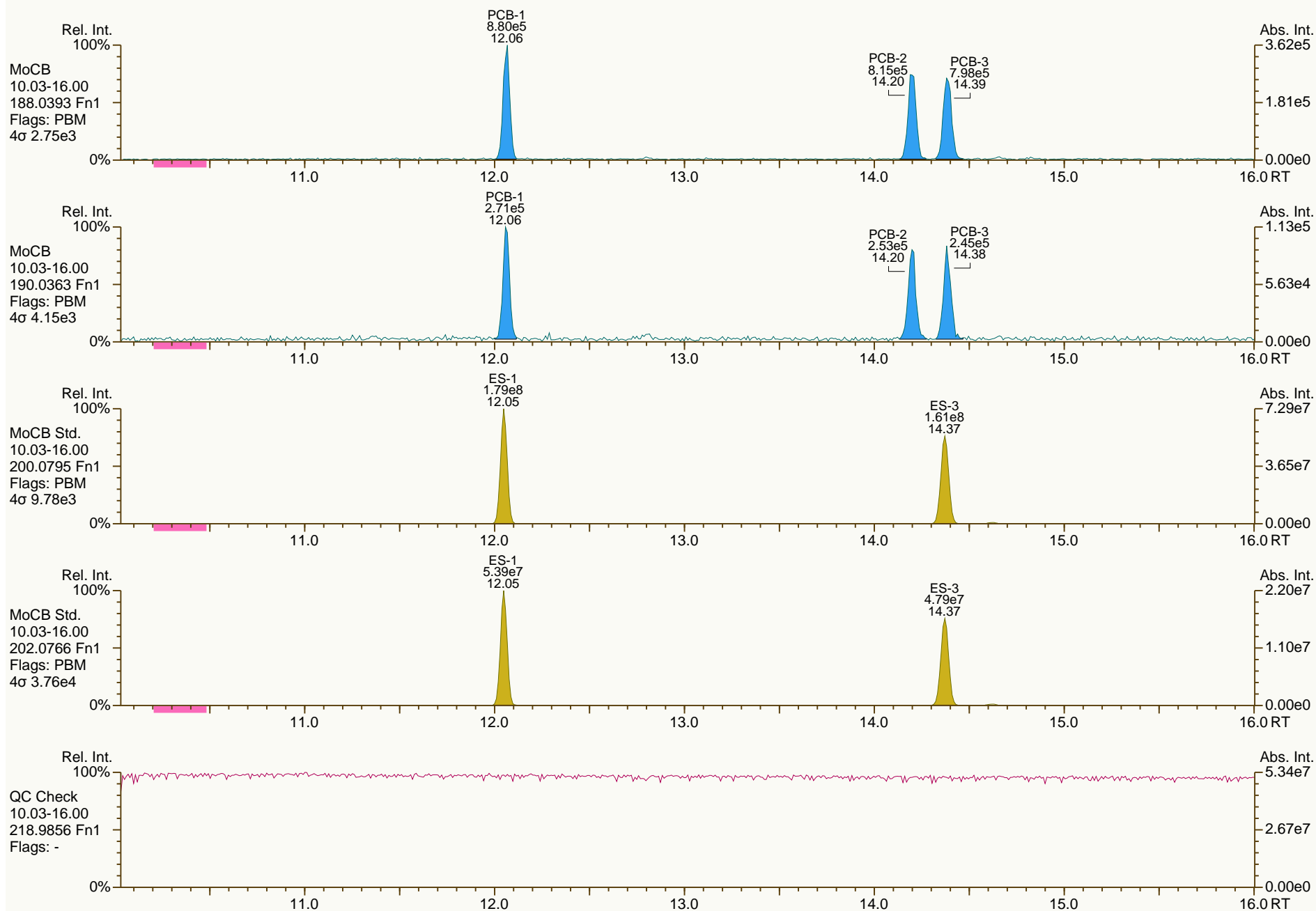
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User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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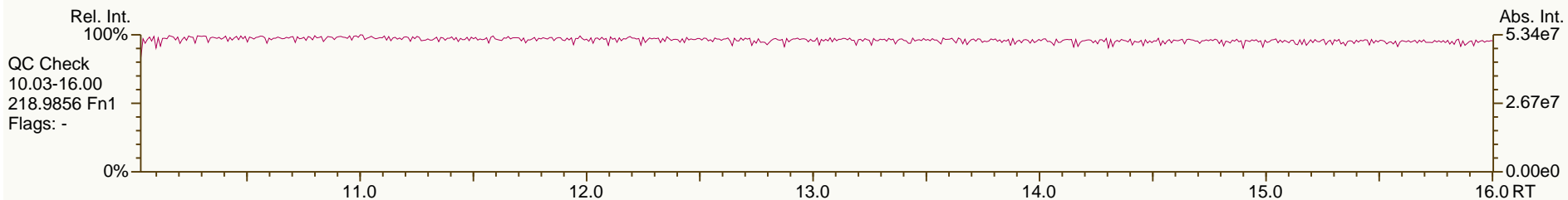
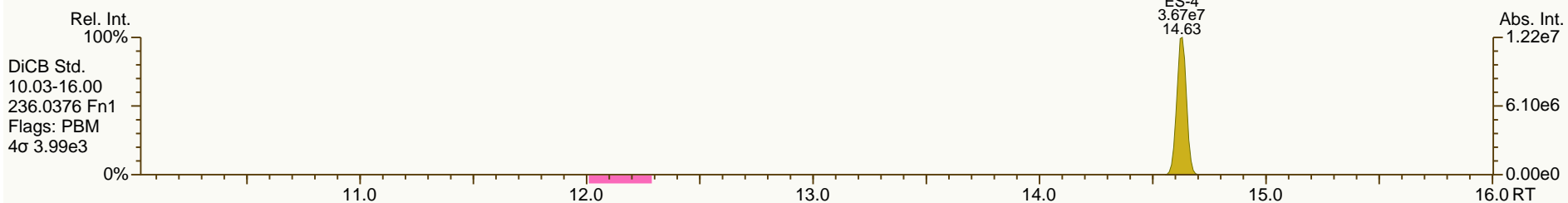
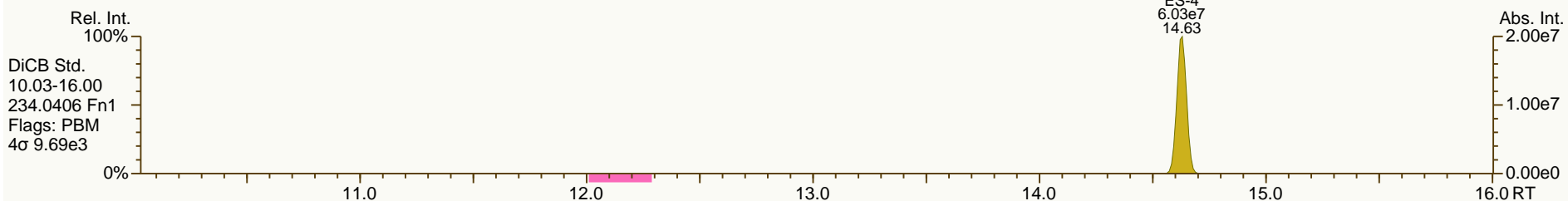
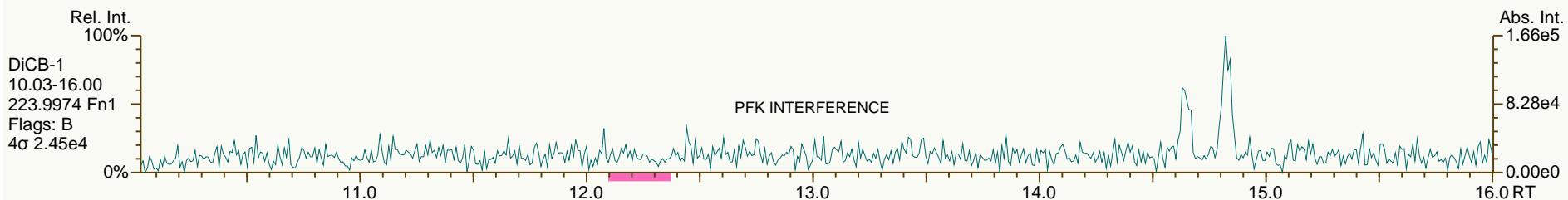
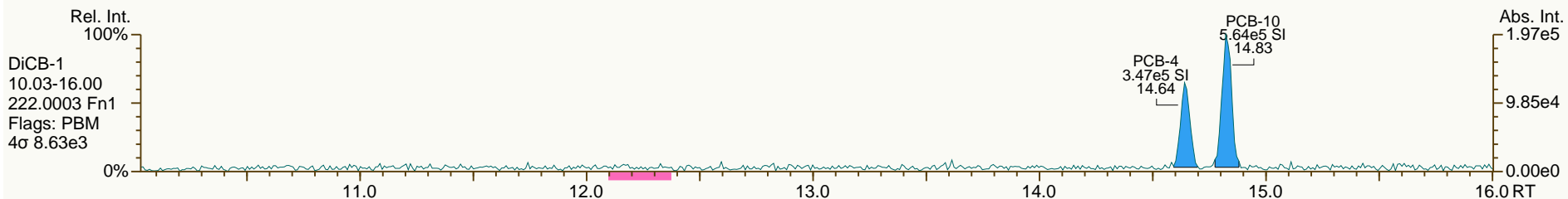
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 20-Dec-2013 14:56:33  
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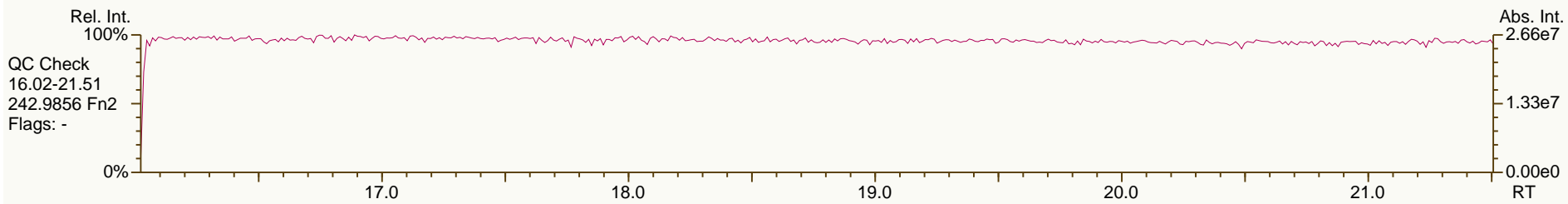
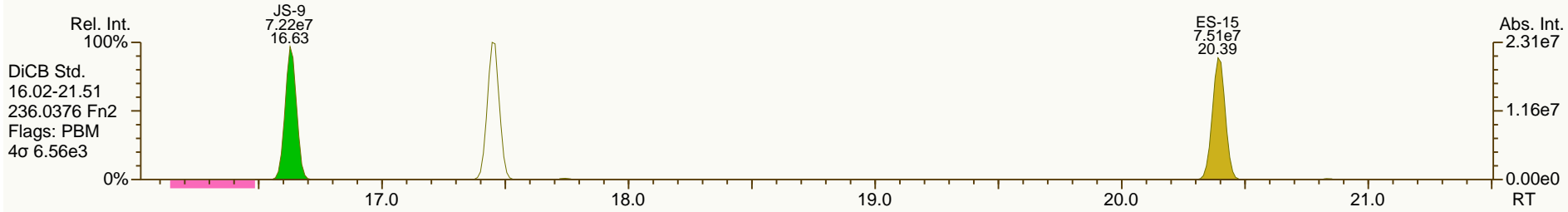
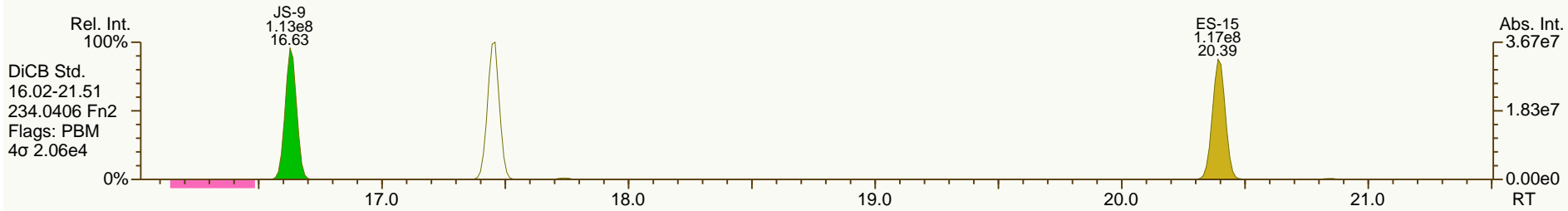
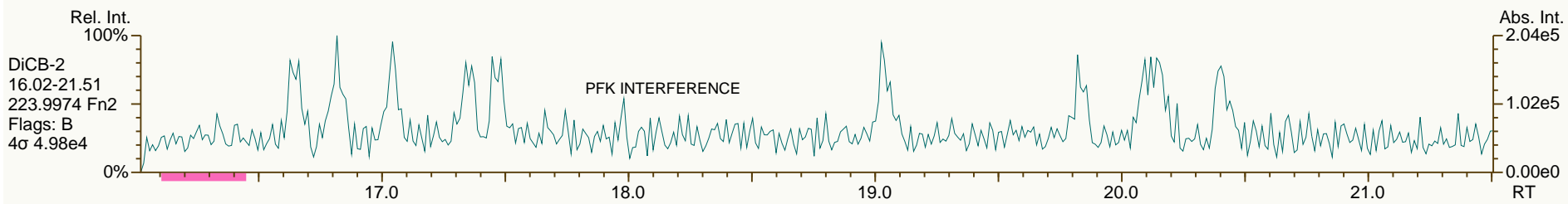
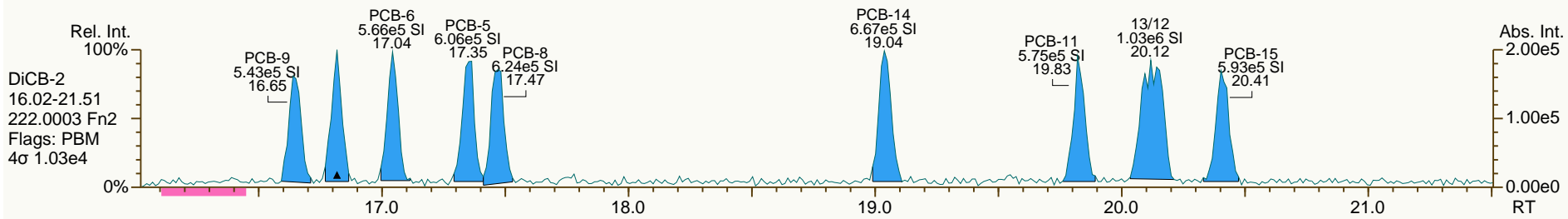




SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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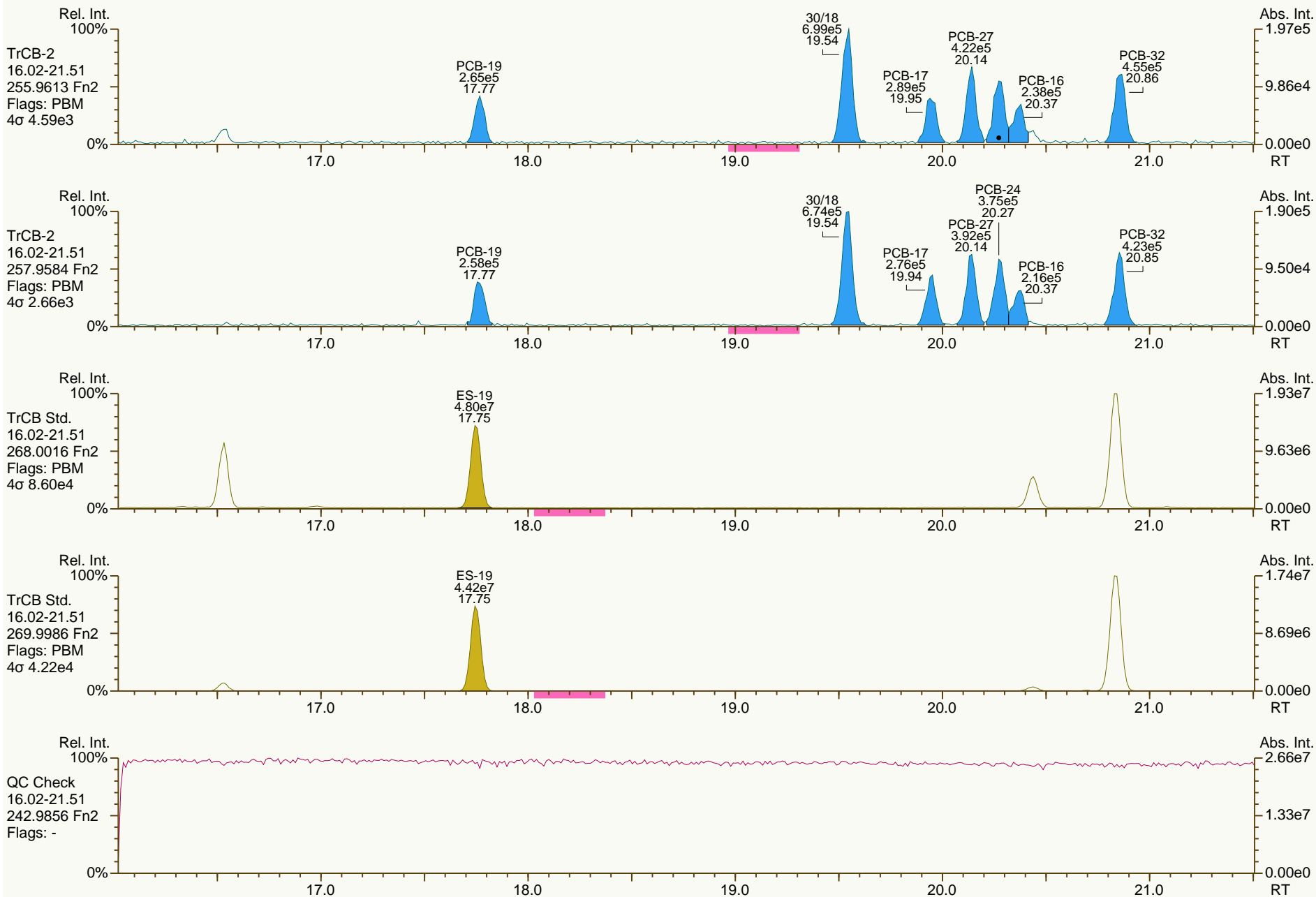
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

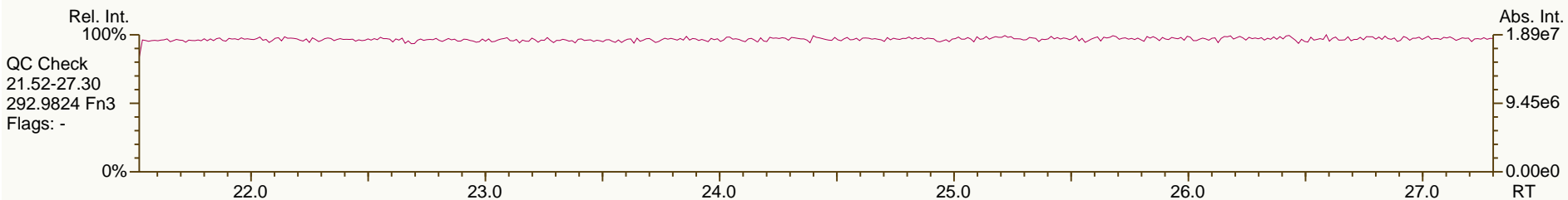
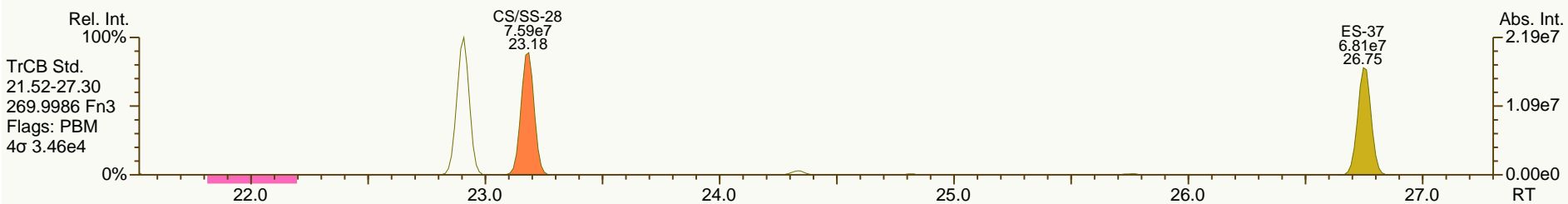
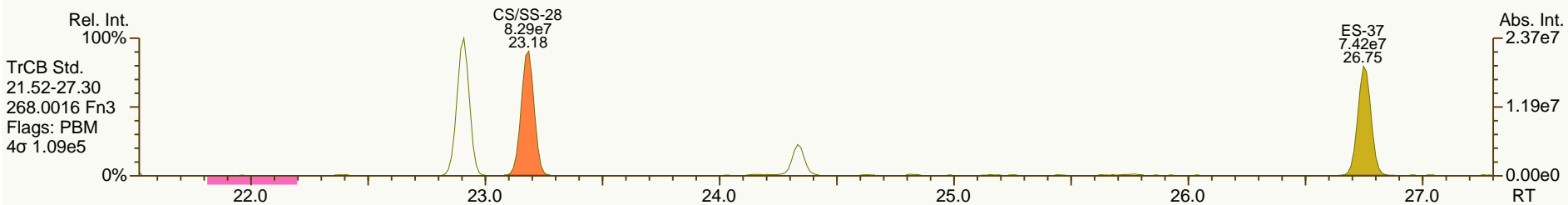
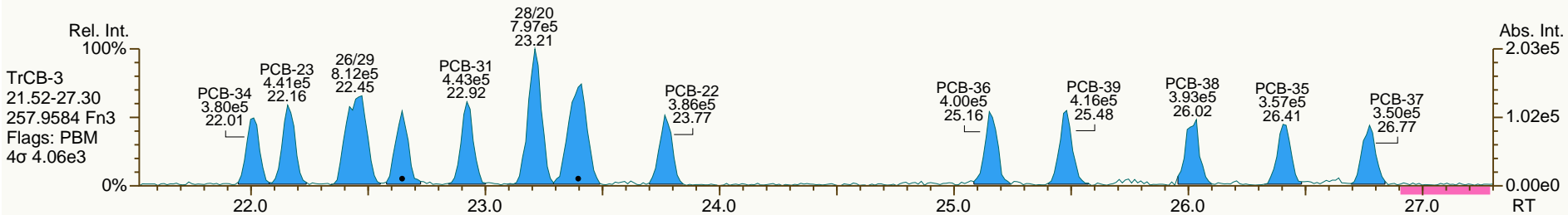
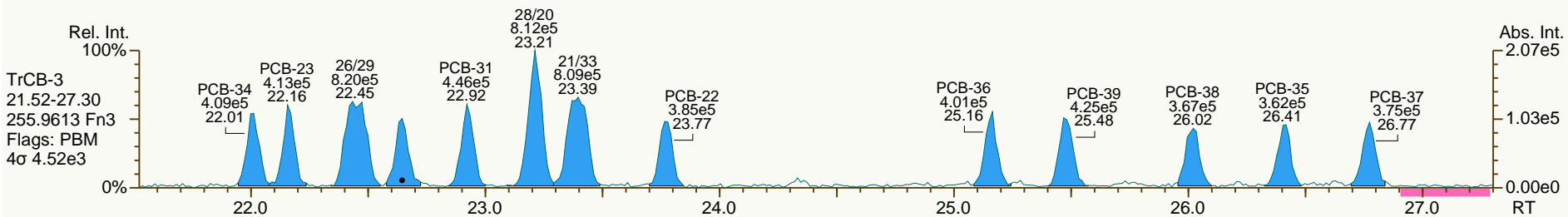
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 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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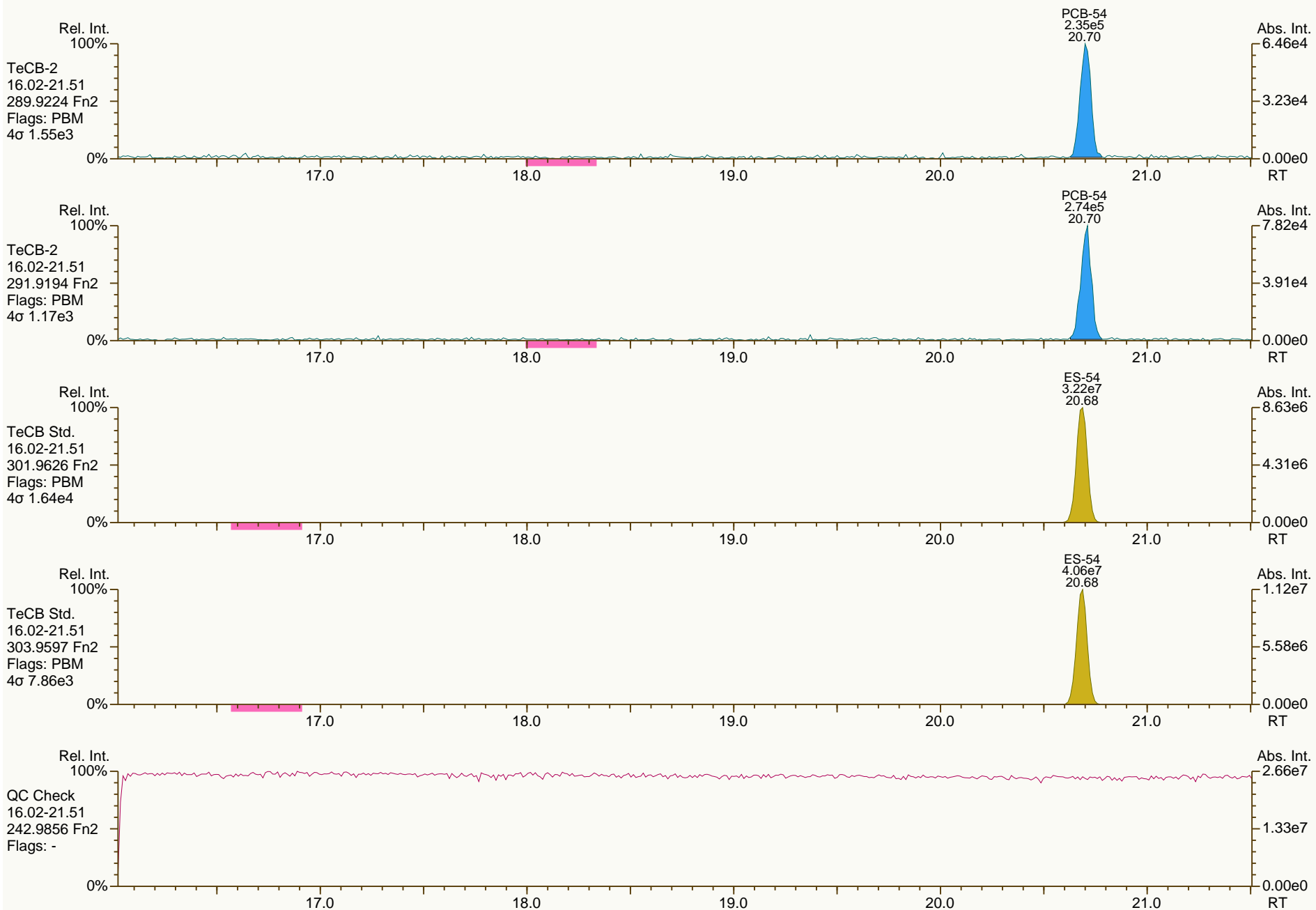
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

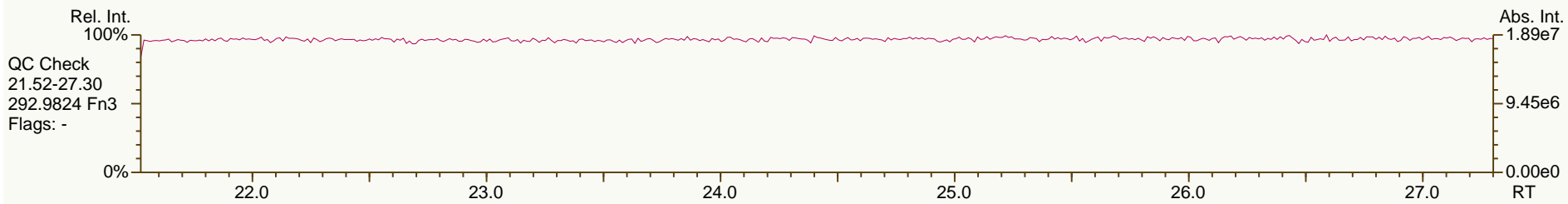
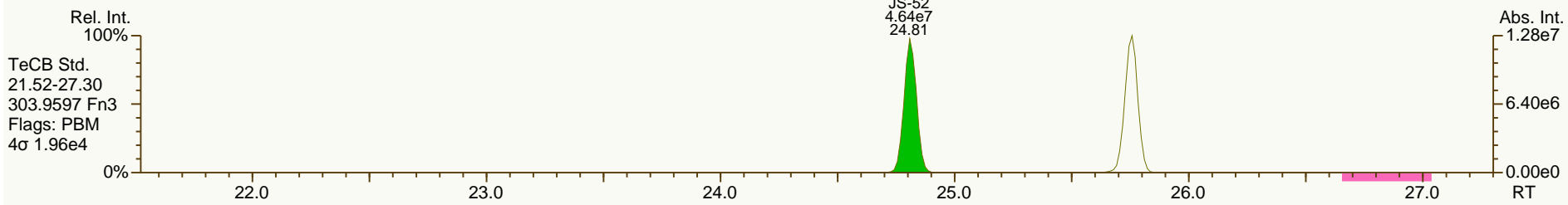
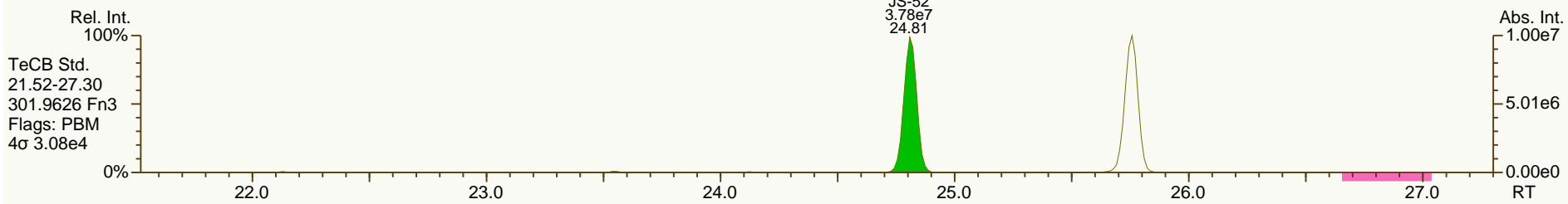
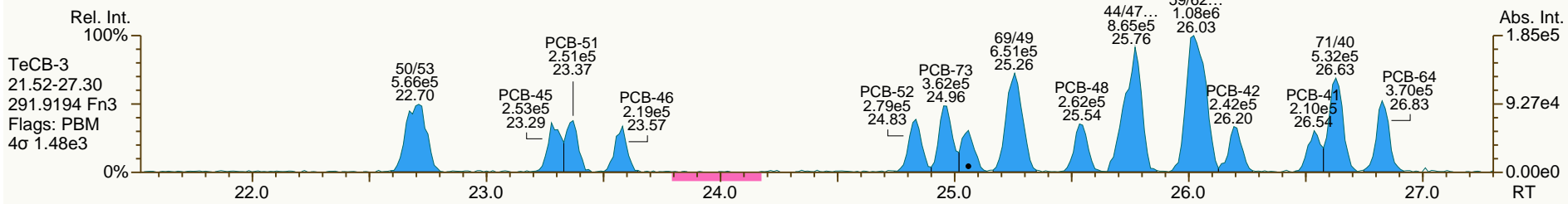
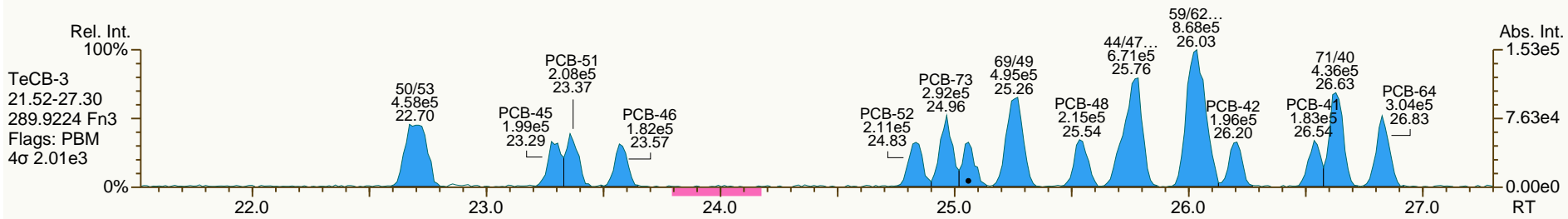
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

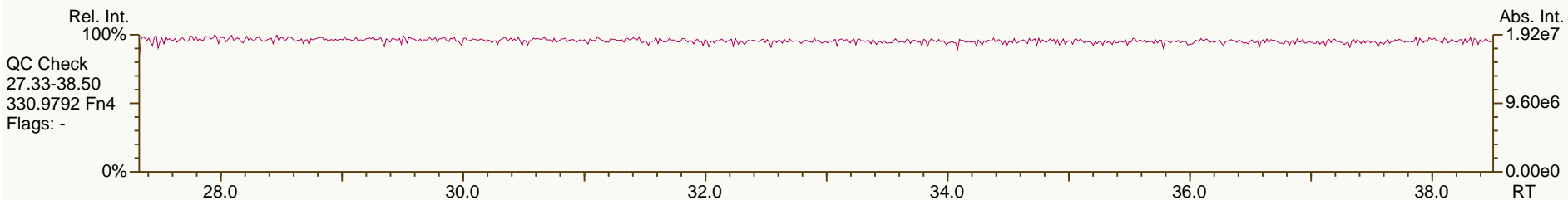
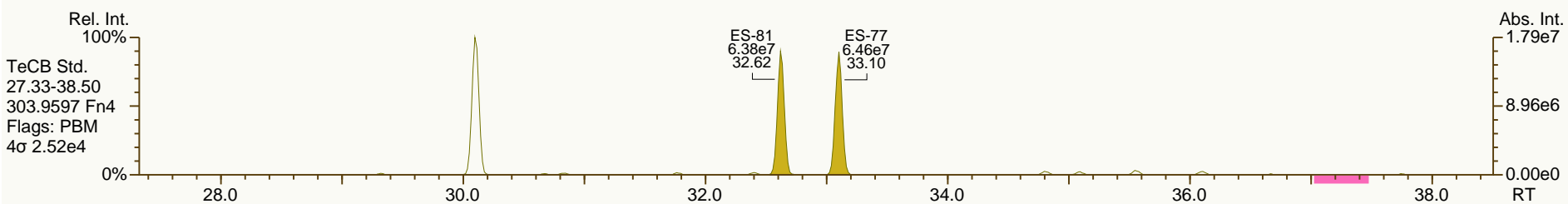
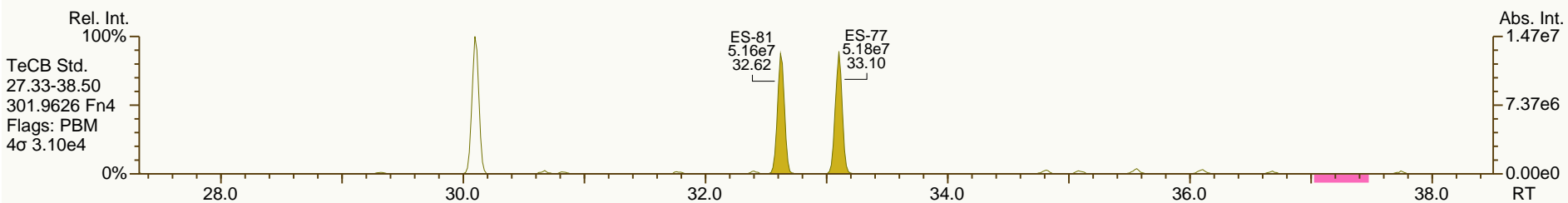
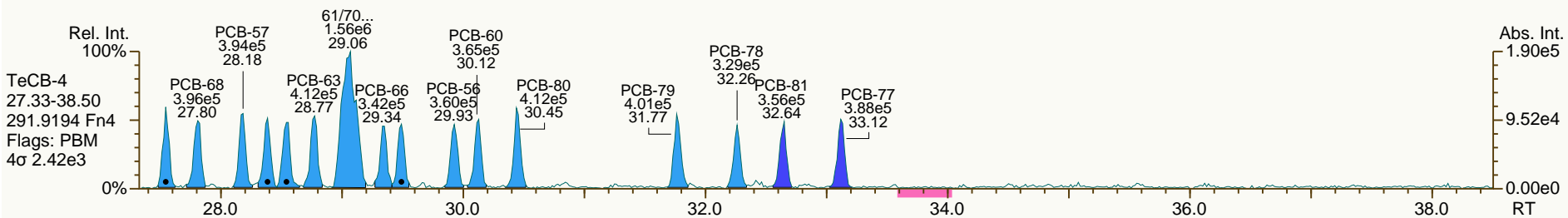
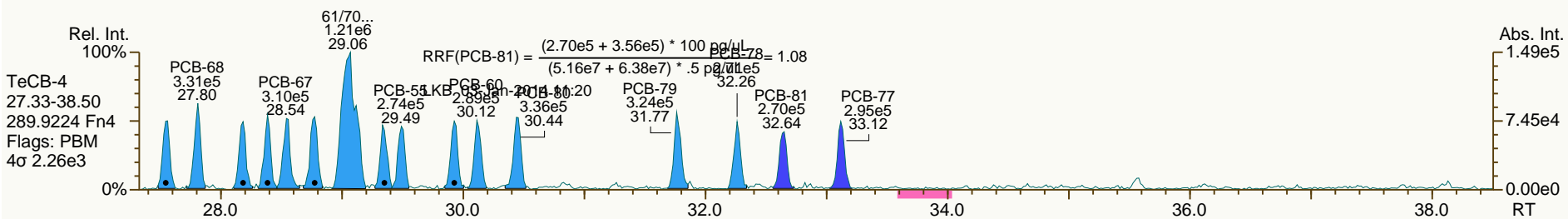
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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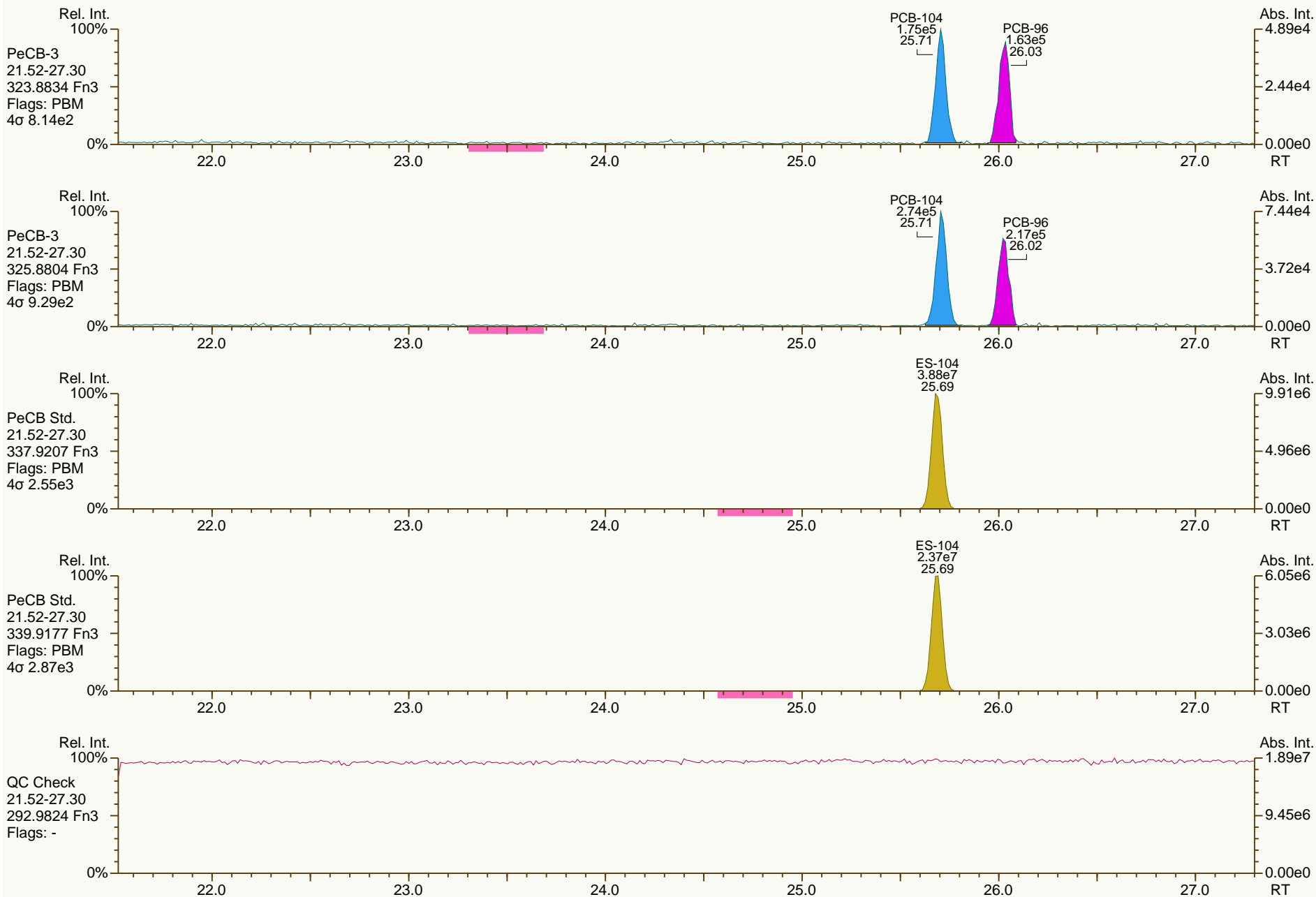
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Sample ID: SIL 13-79-6  
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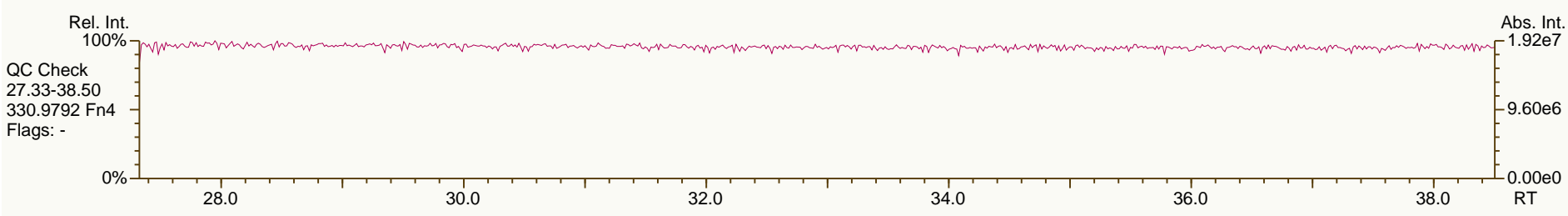
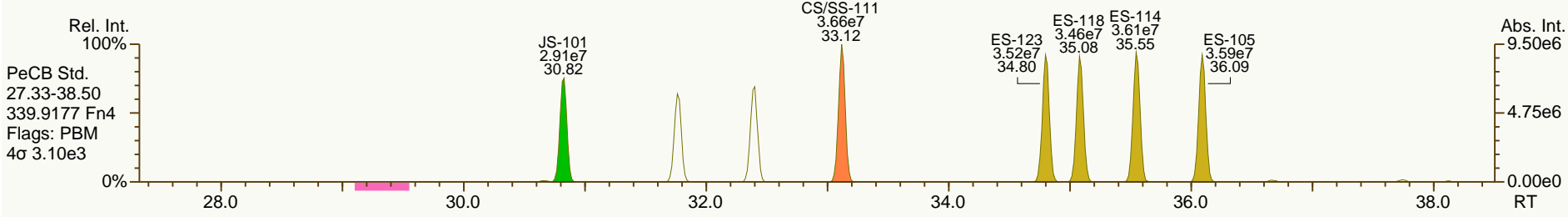
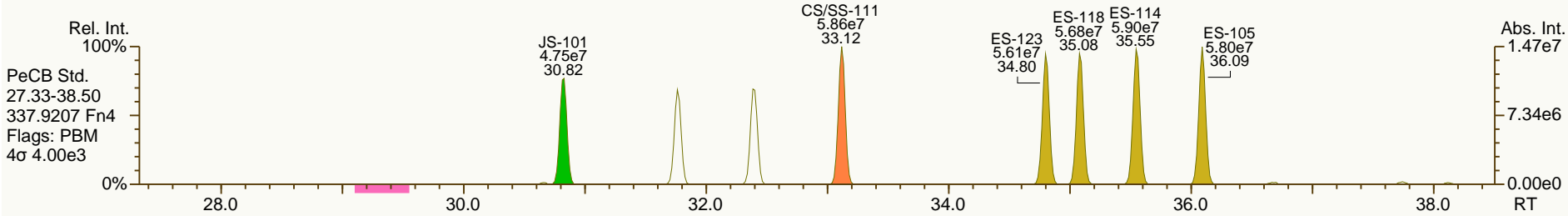
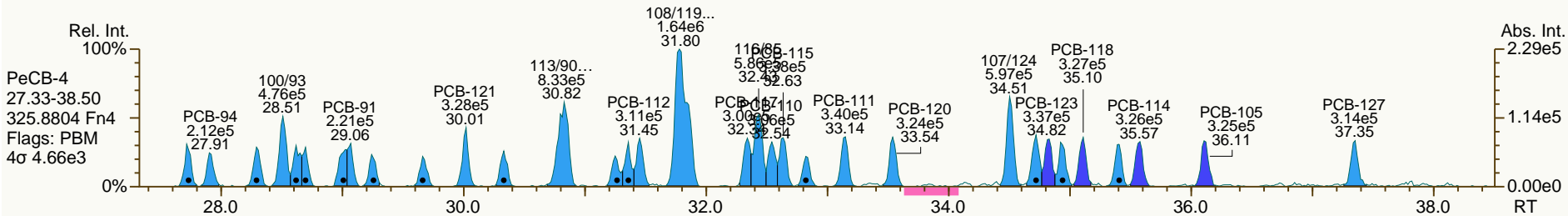
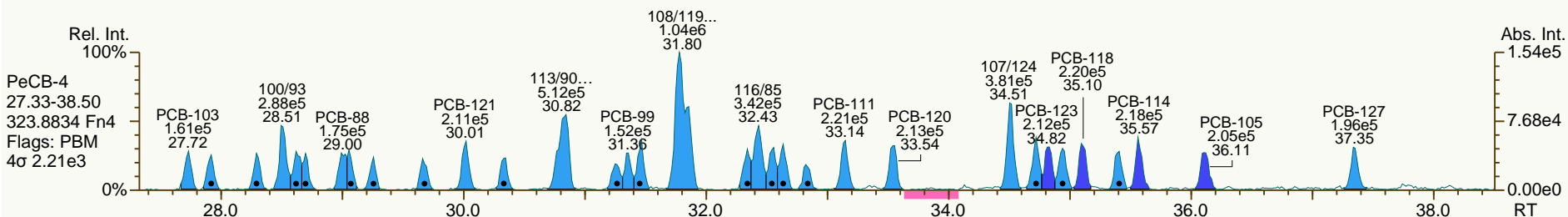
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SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

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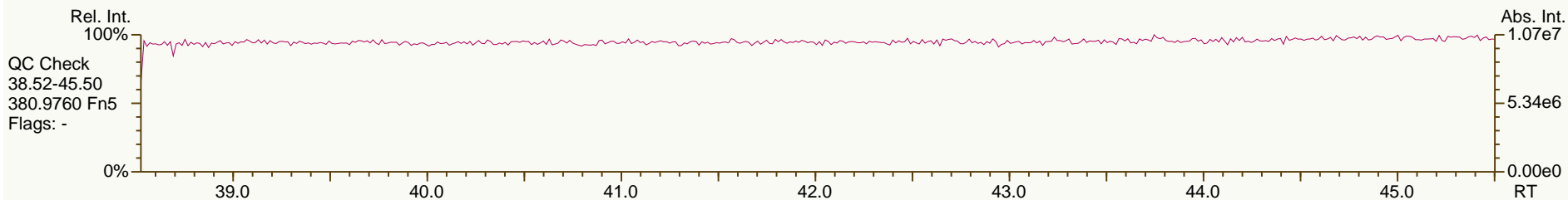
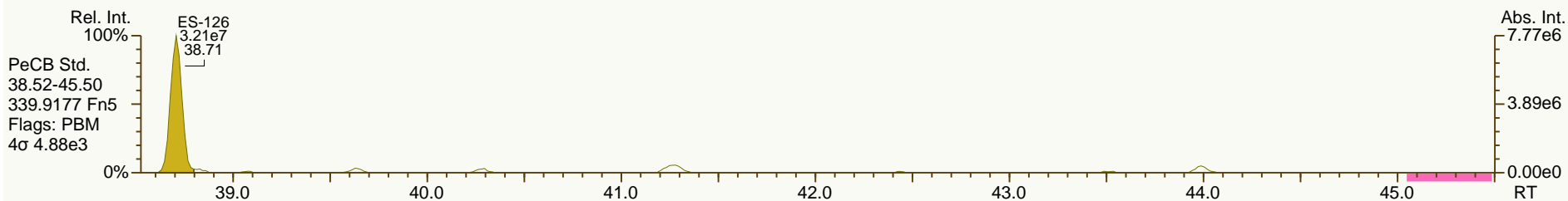
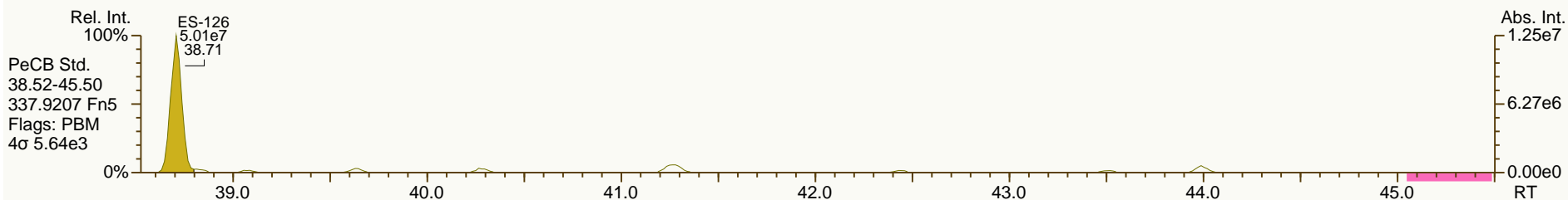
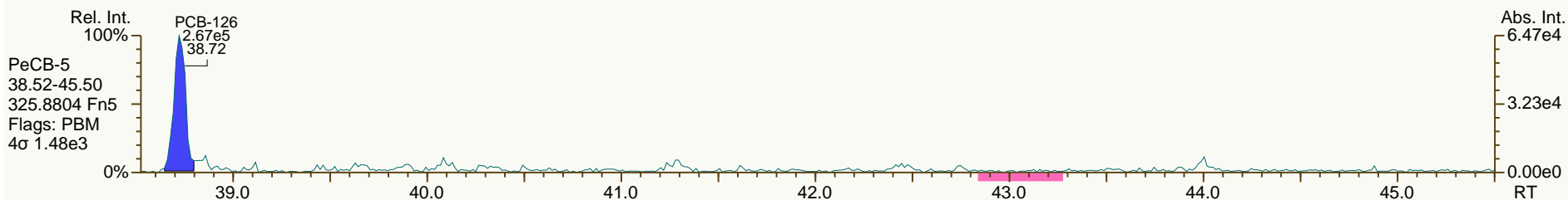
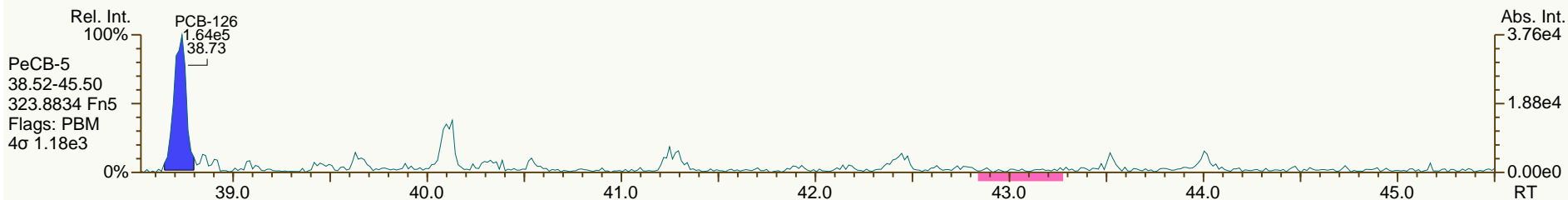




SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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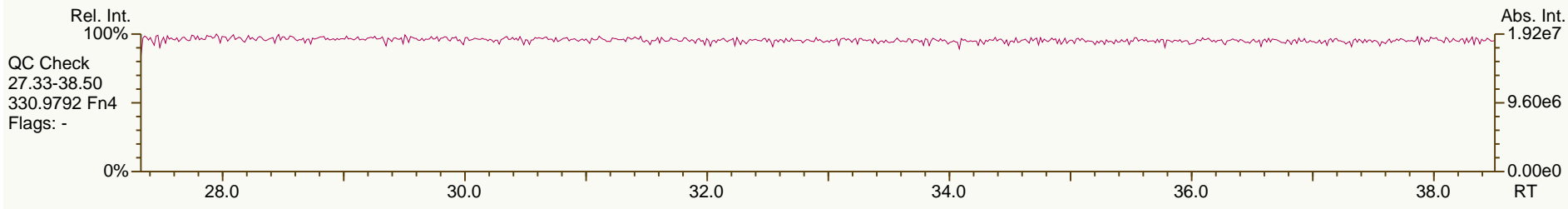
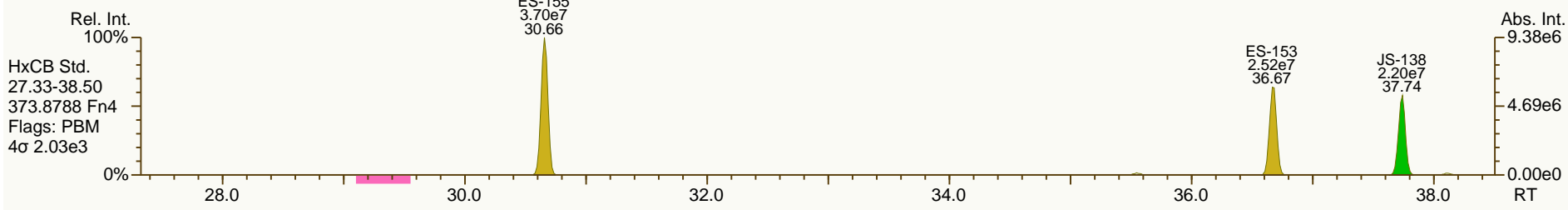
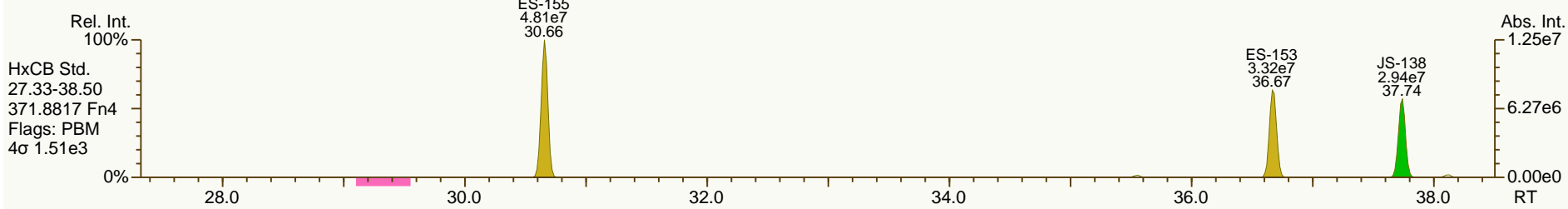
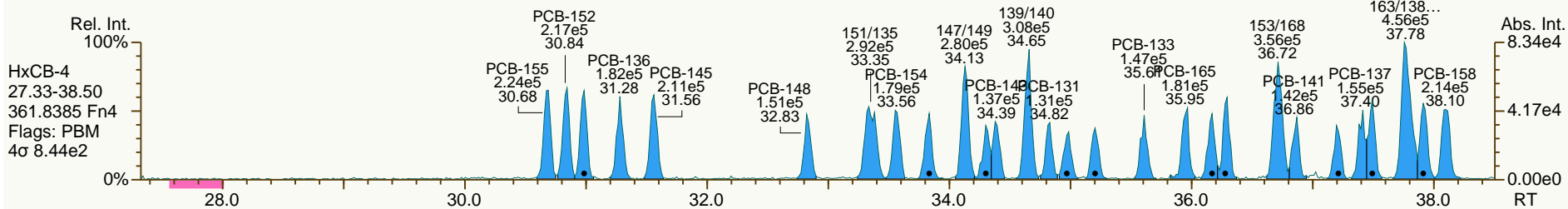
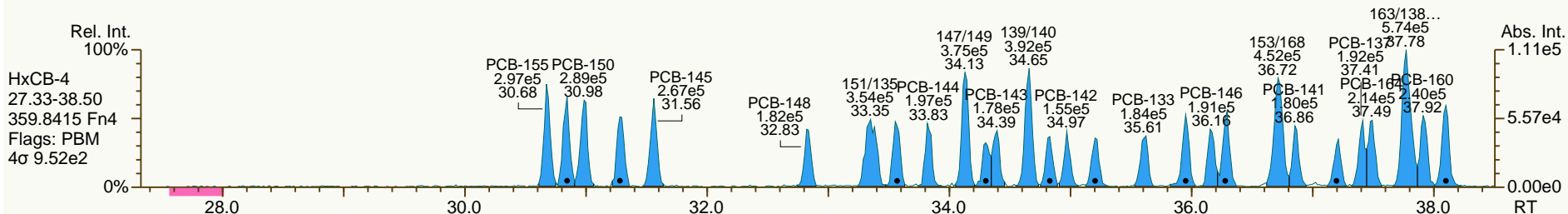
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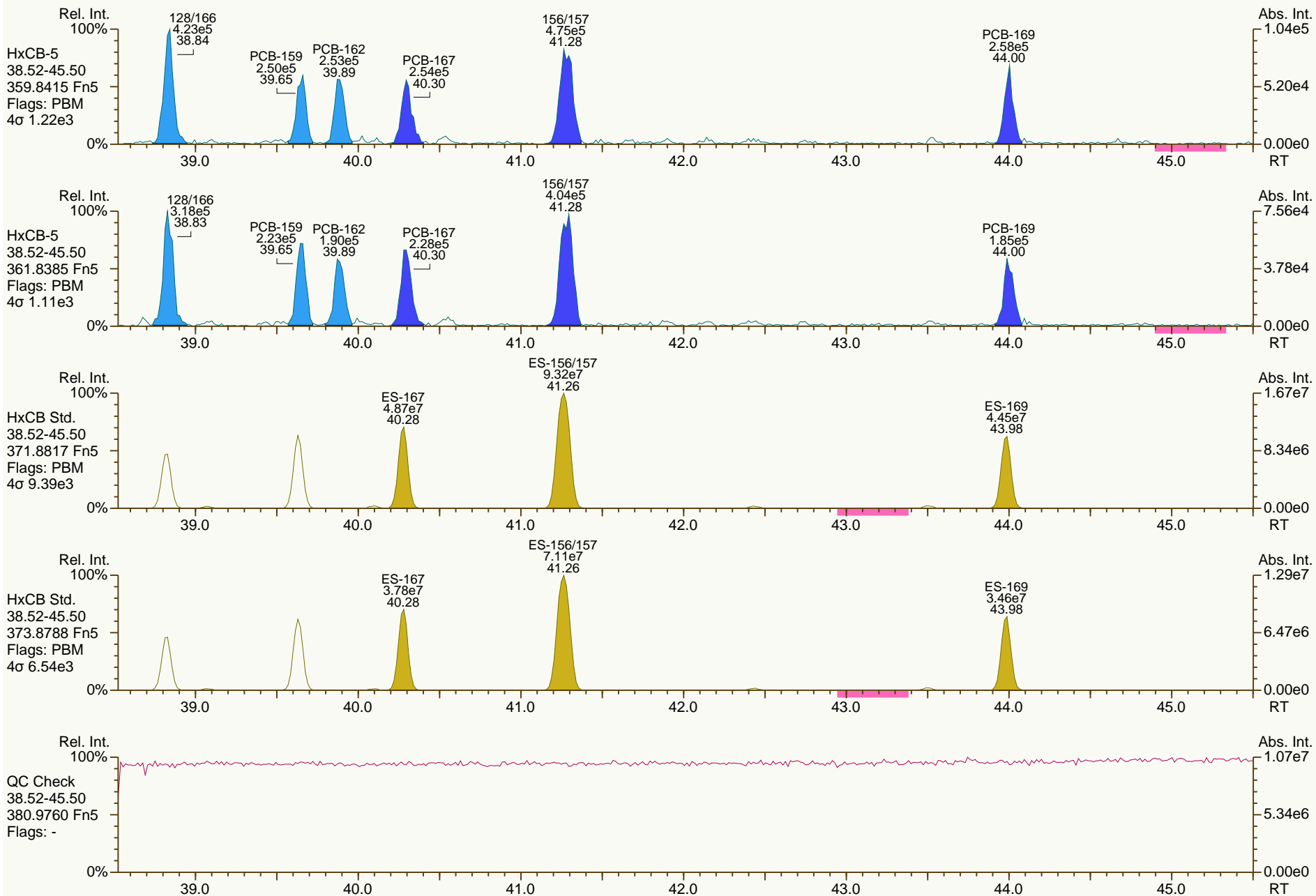
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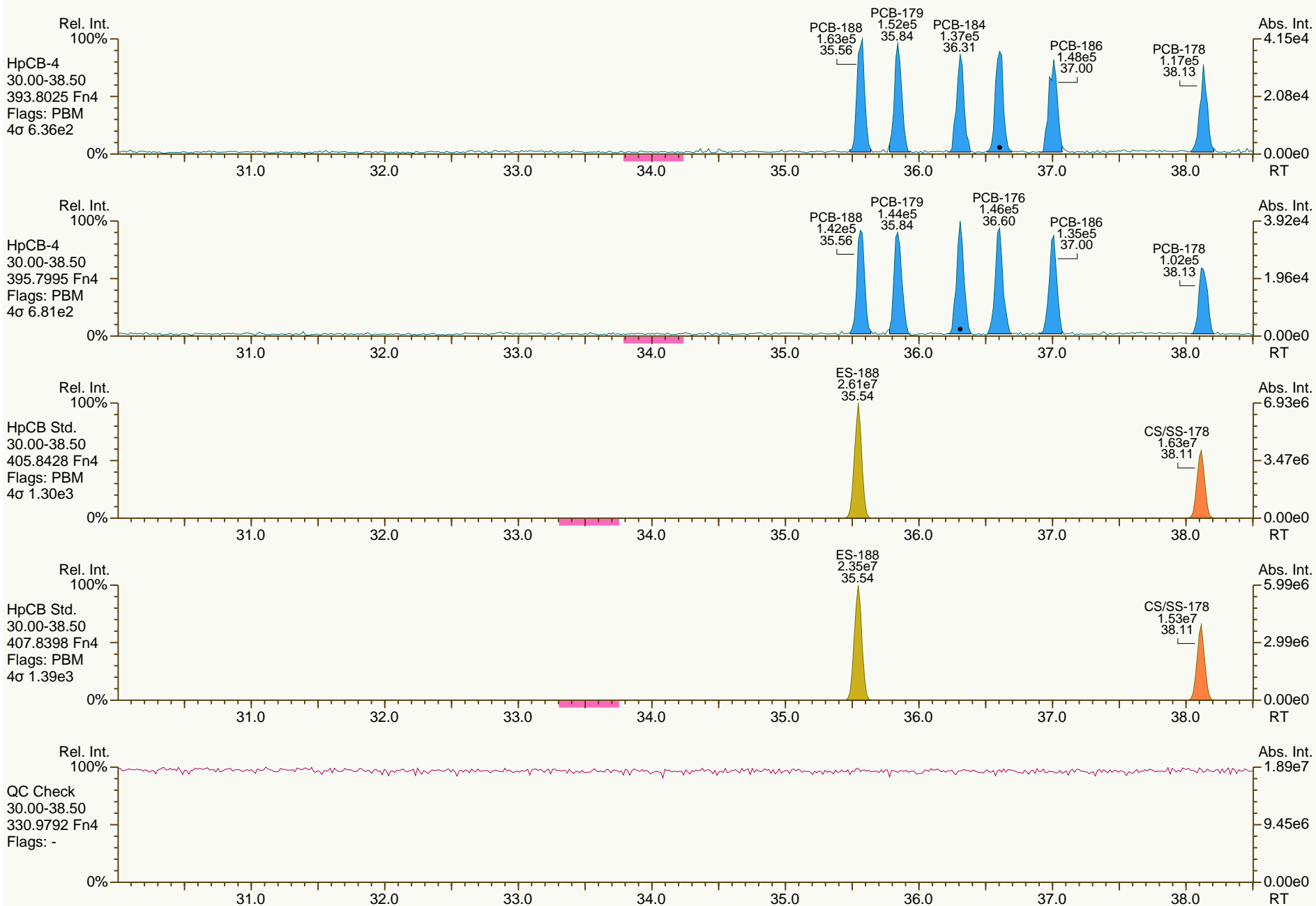
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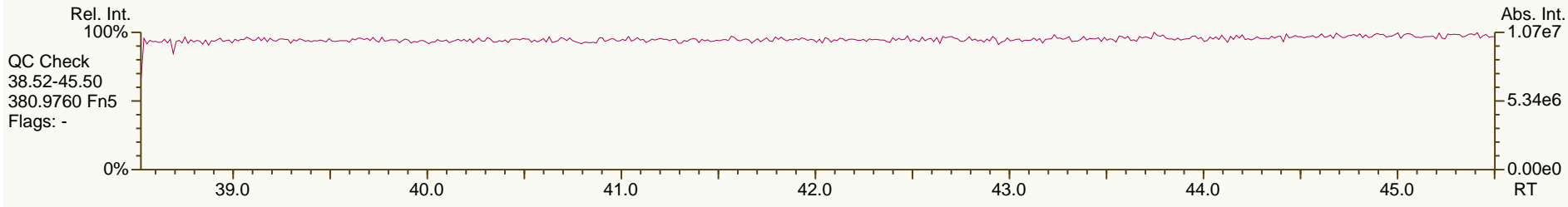
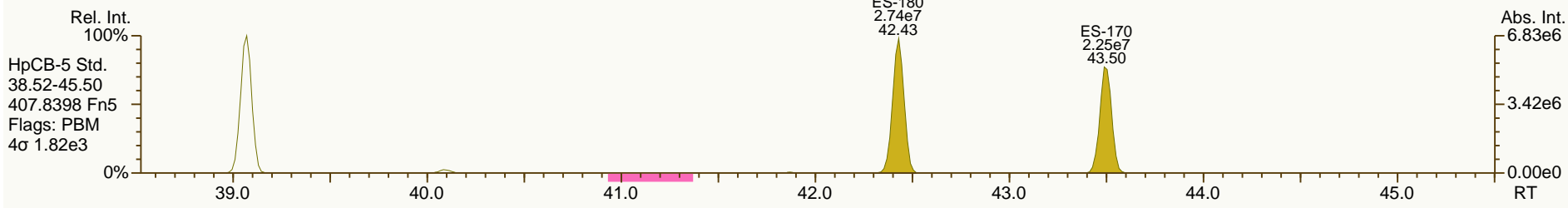
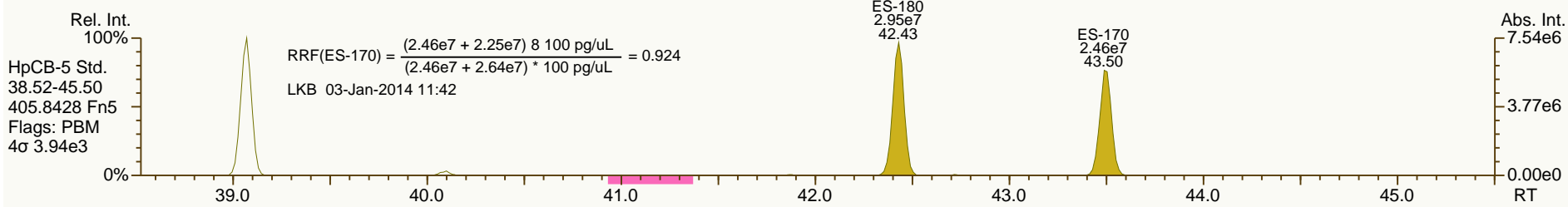
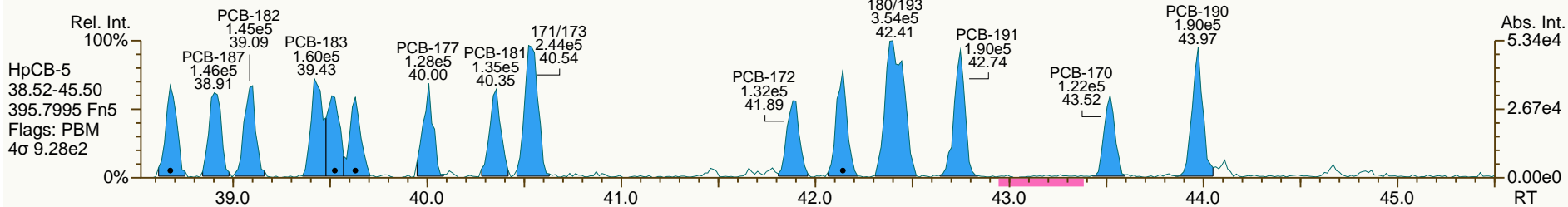
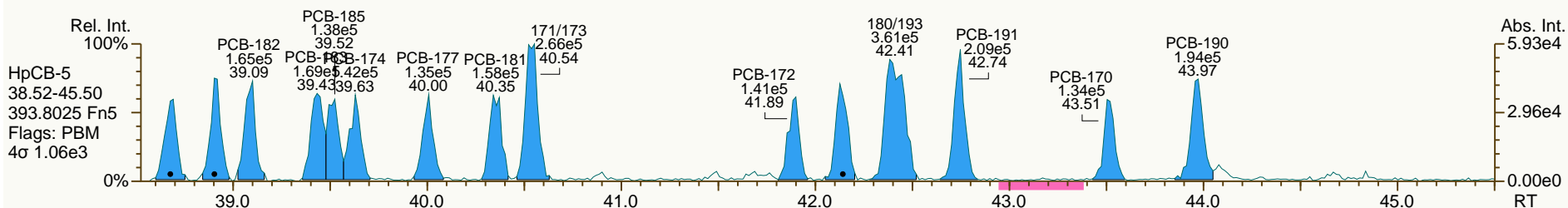
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User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

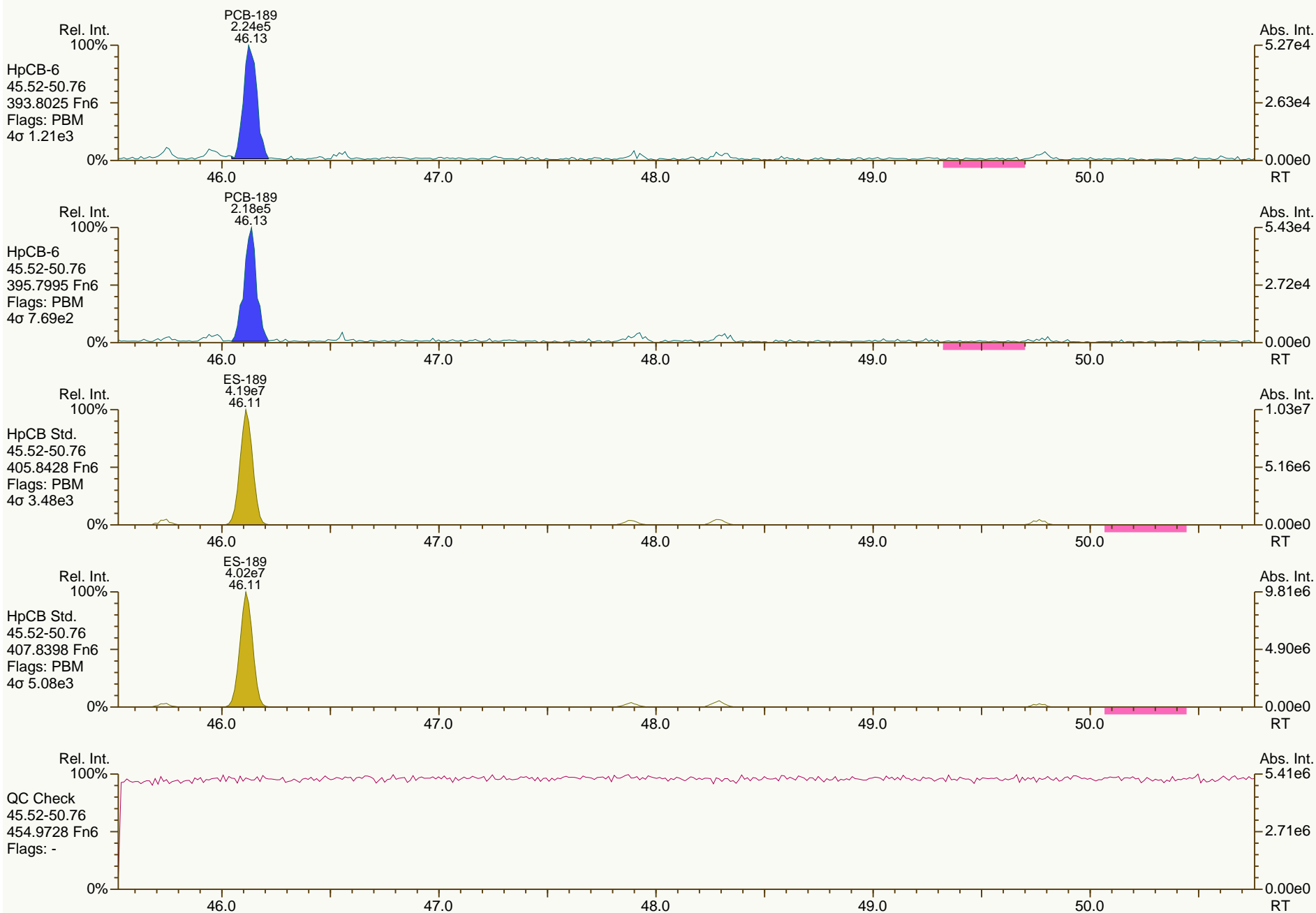
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 20-Dec-2013 14:56:33  
User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

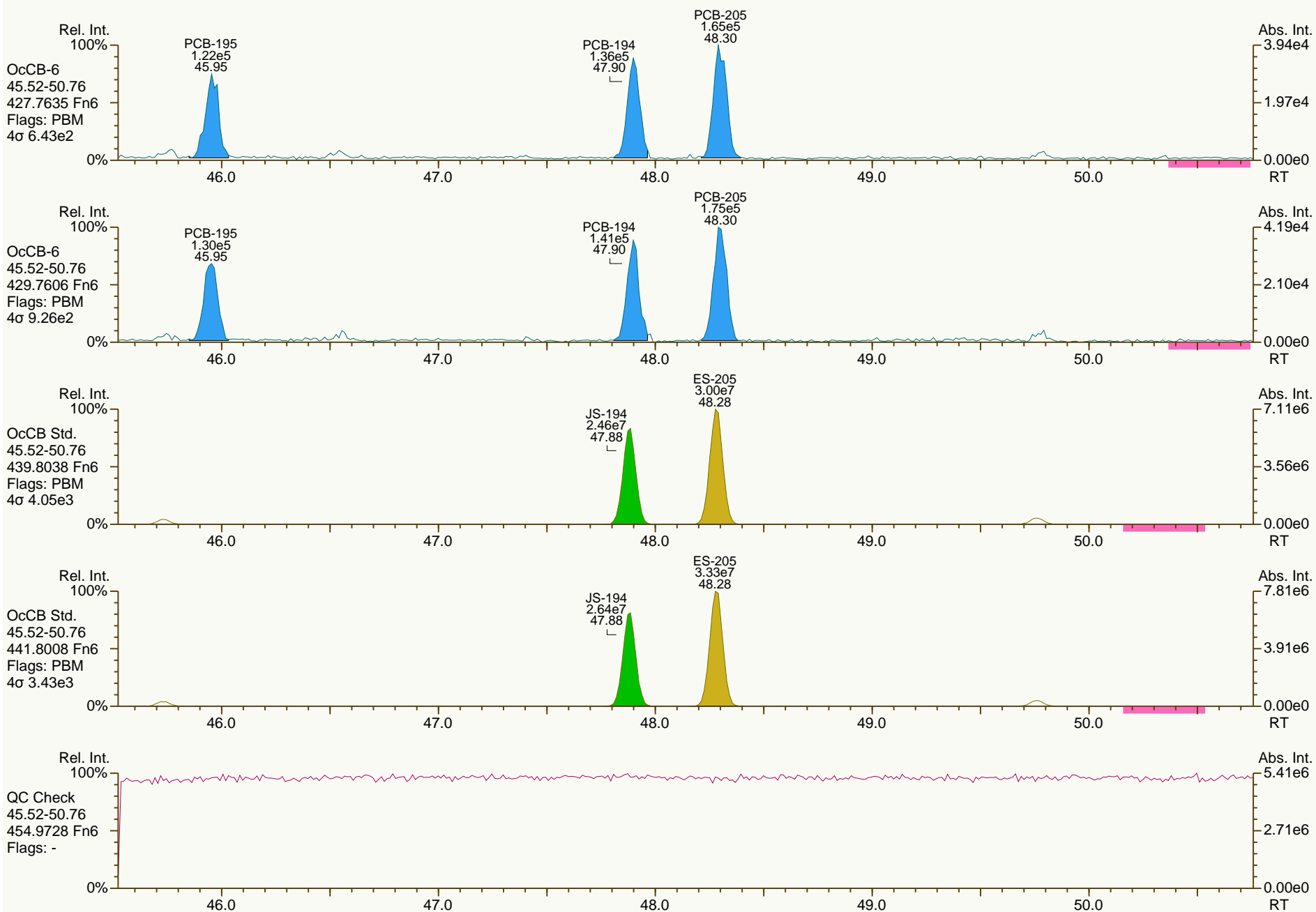
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SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

Acq: 20-Dec-2013 14:56:33  
User: LKB Datafile: 131220X02

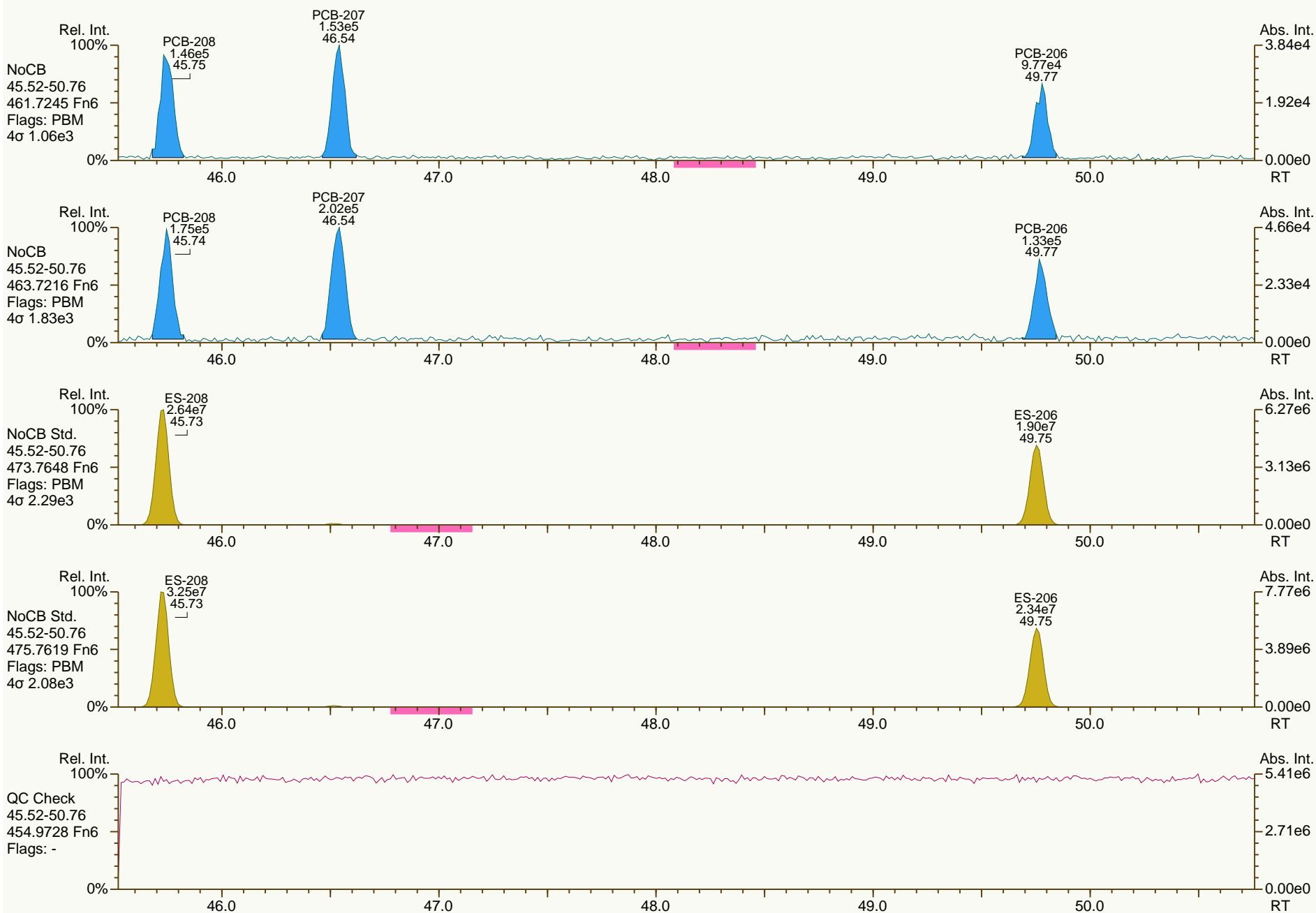




SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

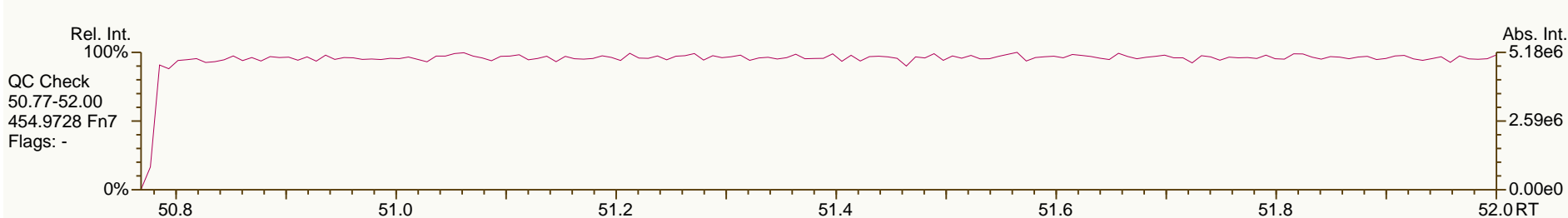
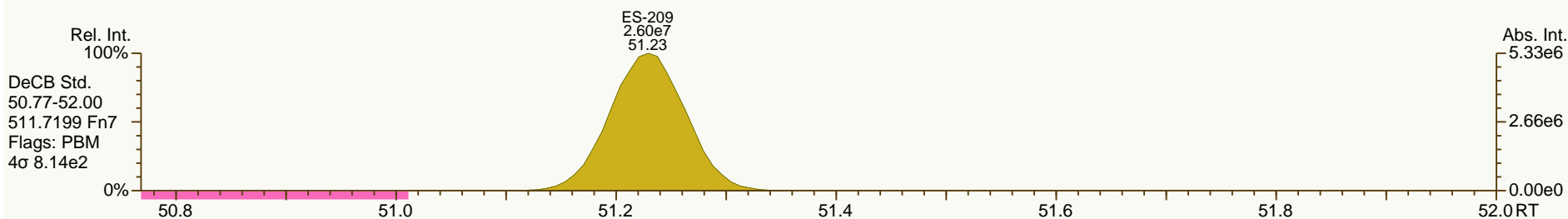
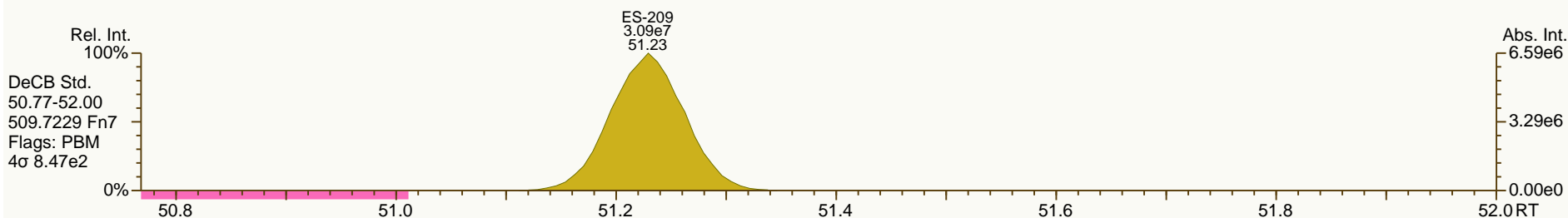
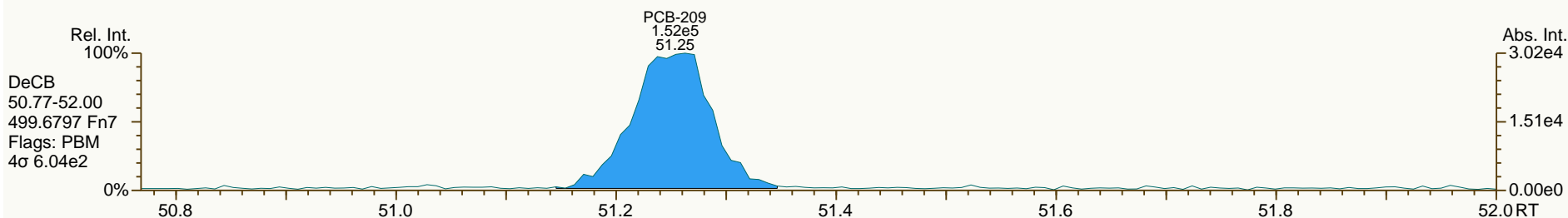
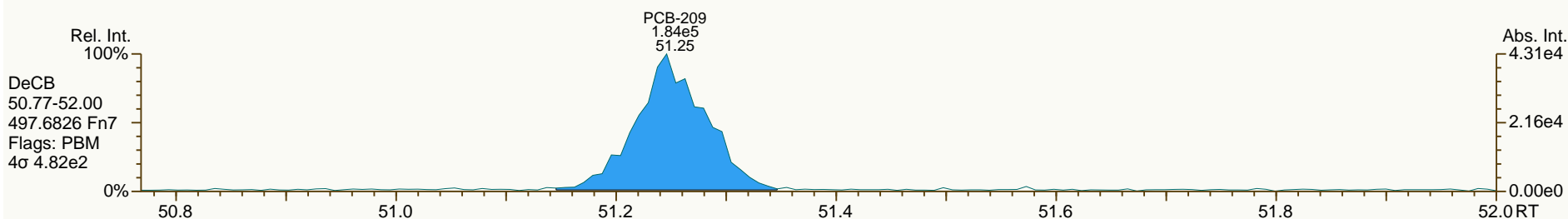
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User: LKB Datafile: 131220X02



SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

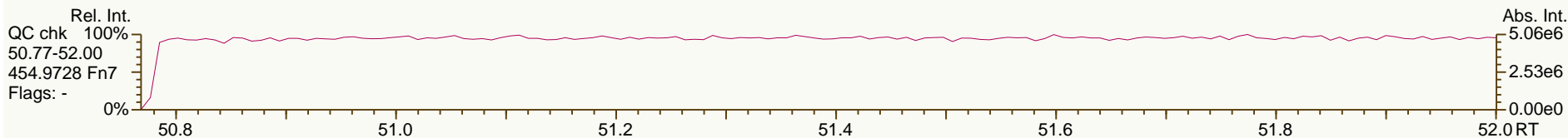
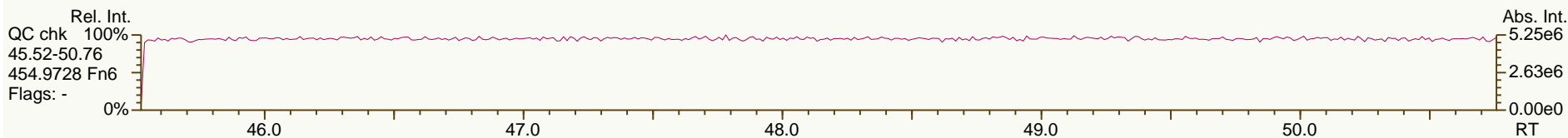
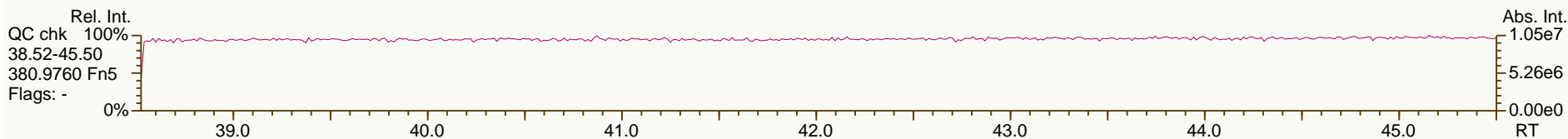
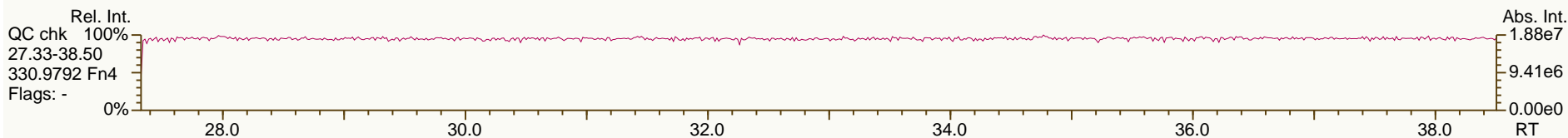
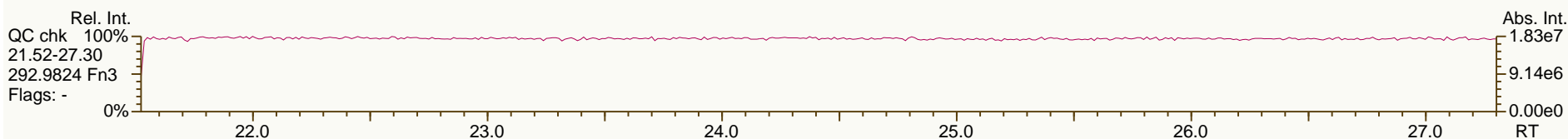
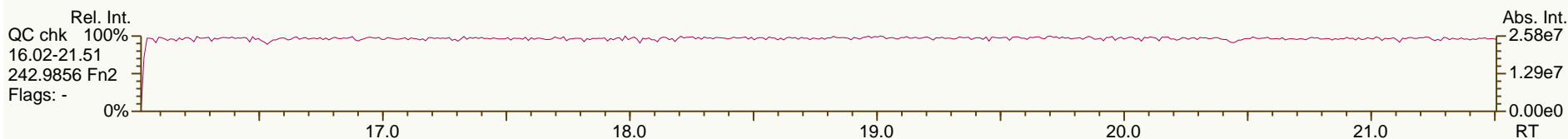
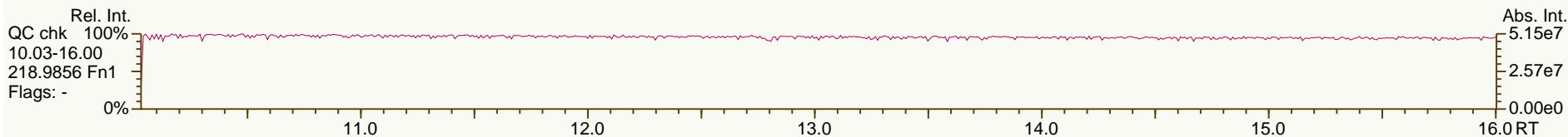
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User: LKB Datafile: 131220X02



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 16:14							
Datafile:	131220X03							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	33.12	1.44E+06	0.79 Y	1.15	1.11	-3.6%		
PCB-81 344'5'-TeCB	32.64	1.43E+06	0.81 Y	1.12	1.13	0.8%		
PCB-105 233'44'-PeCB	36.12	1.07E+06	0.63 Y	1.11	1.02	-7.9%		
PCB-114 2344'5'-PeCB	35.58	1.23E+06	0.64 Y	1.20	1.16	-3.3%		
PCB-118 23'44'5'-PeCB	35.11	1.13E+06	0.62 Y	1.19	1.13	-5.3%		
PCB-123 23'44'5'-PeCB	34.82	1.24E+06	0.61 Y	1.21	1.20	-1.2%		
PCB-126 33'44'5'-PeCB	38.73	9.39E+05	0.63 Y	1.11	1.07	-3.3%		
PCB-156/157 ...-HxCB	41.29	1.93E+06	1.26 Y	1.10	1.07	-2.5%		
PCB-167 23'44'55'-HxCB	40.30	1.07E+06	1.25 Y	1.16	1.13	-2.8%		
PCB-169 33'44'55'-HxCB	44.01	9.43E+05	1.29 Y	1.12	1.07	-4.8%		
PCB-189 233'44'55'-HpCB	46.14	8.81E+05	1.07 Y	1.07	1.00	-6.6%		
PCB-209 DeCB	51.26	6.80E+05	1.22 Y	1.11	1.10	-1.1%		
ES PCB-1	12.05	2.45E+08	3.30 Y	1.19	1.22	2.1%		
ES PCB-3	14.37	2.19E+08	3.33 Y	1.09	1.09	0.4%		
ES PCB-4	14.63	1.05E+08	1.62 Y	0.52	0.52	-0.1%		
ES PCB-15	20.39	2.08E+08	1.56 Y	1.04	1.04	-0.5%		
ES PCB-19	17.75	1.01E+08	1.09 Y	0.51	0.50	-0.8%		
ES PCB-37	26.75	1.55E+08	1.10 Y	1.66	1.64	-1.1%		
ES PCB-54	20.68	8.14E+07	0.81 Y	0.86	0.86	0.2%		
ES PCB-77	33.10	1.30E+08	0.82 Y	1.38	1.37	-0.7%		
ES PCB-81	32.63	1.27E+08	0.82 Y	1.37	1.35	-1.5%		
ES PCB-104	25.69	6.93E+07	1.68 Y	0.80	0.80	0.0%		
ES PCB-105	36.09	1.04E+08	1.61 Y	1.20	1.21	0.7%		
ES PCB-114	35.55	1.06E+08	1.64 Y	1.22	1.22	0.5%		
ES PCB-118	35.09	1.01E+08	1.61 Y	1.16	1.17	0.8%		
ES PCB-123	34.80	1.03E+08	1.61 Y	1.19	1.20	0.9%		
ES PCB-126	38.71	8.78E+07	1.58 Y	1.03	1.02	-0.9%		
ES PCB-153	36.68	6.38E+07	1.31 Y	1.11	1.11	-0.4%		
ES PCB-155	30.66	9.19E+07	1.28 Y	1.59	1.60	0.6%		
ES PCB-156/157	41.27	1.81E+08	1.29 Y	1.60	1.57	-1.9%		
ES PCB-167	40.28	9.51E+07	1.28 Y	1.67	1.65	-1.0%		
ES PCB-169	43.99	8.81E+07	1.26 Y	1.56	1.53	-1.6%		
ES PCB-170	43.50	5.21E+07	1.09 Y	0.95	0.93	-1.8%		
ES PCB-180	42.43	6.14E+07	1.09 Y	1.14	1.10	-3.7%		
ES PCB-188	35.55	5.38E+07	1.11 Y	0.94	0.93	-0.5%		
ES PCB-189	46.12	8.78E+07	1.03 Y	1.58	1.57	-1.0%		
ES PCB-202	40.09	5.52E+07	0.93 Y	0.97	0.96	-1.1%		
ES PCB-205	48.29	6.89E+07	0.90 Y	1.24	1.23	-1.2%		
ES PCB-206	49.76	4.58E+07	0.81 Y	0.83	0.82	-1.4%		
ES PCB-208	45.73	6.49E+07	0.80 Y	1.17	1.16	-1.4%		
ES PCB-209	51.23	6.17E+07	1.20 Y	1.11	1.10	-0.7%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.73E+08	1.09 Y	1.11	1.12	0.7%	
SS PCB-111	33.12	1.05E+08	1.58 Y	1.03	1.02	-0.8%	
SS PCB-178	38.12	3.27E+07	1.10 Y	0.62	0.61	-1.9%	
CS PCB-28	23.18	1.73E+08	1.09 Y	1.85	1.84	-0.4%	
CS PCB-111	33.12	1.05E+08	1.58 Y	1.22	1.22	0.1%	
CS PCB-178	38.12	3.27E+07	1.10 Y	0.58	0.57	-2.4%	
JS PCB-9	16.63	2.01E+08	1.58 Y	-	-	-	
JS PCB-52	24.81	9.43E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	8.62E+07	1.61 Y	-	-	-	
JS PCB-138	37.74	5.75E+07	1.31 Y	-	-	-	
JS PCB-194	47.89	5.60E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-2 3-MoCB	14.20	2.22E+06	3.19 Y	1.03	1.01	-2.1%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-10 26'-DiCB	14.83	1.99E+06	1.53 Y	1.98	1.90	-4.3%	
PCB-9 25'-DiCB	16.65	1.98E+06	1.52 Y	0.95	0.95	0.8%	
PCB-7 24'-DiCB	16.82	2.15E+06	1.55 Y	1.05	1.03	-1.3%	
PCB-6 23'-DiCB	17.04	1.96E+06	1.59 Y	1.00	0.94	-5.2%	
PCB-5 23'-DiCB	17.35	1.92E+06	1.63 Y	1.00	0.92	-7.9%	
PCB-8 24'-DiCB	17.47	2.06E+06	1.64 Y	1.03	0.99	-4.3%	
PCB-14 35'-DiCB	19.04	2.37E+06	1.53 Y	1.18	1.14	-3.6%	
PCB-11 33'-DiCB	19.83	1.97E+06	1.60 Y	1.01	0.95	-6.2%	
PCB-13/12 34'/34'-DiCB	20.12	4.01E+06	1.64 Y	0.99	0.96	-2.7%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-30/18 246'/22'5'-TrCB	19.54	2.96E+06	1.02 Y	1.54	1.47	-4.3%	
PCB-17 22'4'-TrCB	19.95	1.29E+06	1.05 Y	1.31	1.28	-1.9%	
PCB-27 23'6'-TrCB	20.14	1.77E+06	1.07 Y	1.82	1.76	-3.4%	
PCB-24 236'-TrCB	20.28	1.71E+06	1.05 Y	1.72	1.69	-1.8%	
PCB-16 22'3'-TrCB	20.37	9.51E+05	1.08 Y	1.01	0.94	-6.2%	
PCB-32 24'6'-TrCB	20.85	1.93E+06	1.04 Y	1.92	1.91	-0.2%	
PCB-34 23'5'-TrCB	22.01	1.70E+06	1.01 Y	1.14	1.09	-3.6%	
PCB-23 235'-TrCB	22.16	1.69E+06	1.02 Y	1.16	1.09	-5.7%	
PCB-26/29 23'5'/245'-TrCB	22.45	3.54E+06	1.00 Y	1.17	1.14	-2.6%	
PCB-25 23'4'-TrCB	22.64	1.76E+06	0.93 Y	1.16	1.14	-1.8%	
PCB-31 24'5'-TrCB	22.93	1.79E+06	1.00 Y	1.23	1.16	-5.5%	
PCB-28/20 244'/233'-TrCB	23.21	3.35E+06	0.97 Y	1.13	1.08	-4.5%	
PCB-21/33 234'/23'4'-TrCB	23.39	3.53E+06	1.00 Y	1.17	1.14	-3.0%	
PCB-22 234'-TrCB	23.77	1.63E+06	0.98 Y	1.08	1.05	-2.5%	
PCB-36 33'5'-TrCB	25.16	1.74E+06	0.96 Y	1.17	1.12	-4.1%	
PCB-39 34'5'-TrCB	25.48	1.81E+06	0.98 Y	1.21	1.16	-3.9%	
PCB-38 345'-TrCB	26.02	1.68E+06	1.02 Y	1.10	1.08	-1.9%	
PCB-35 33'4'-TrCB	26.41	1.52E+06	0.97 Y	1.04	0.98	-5.4%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	2.16E+06	0.78 Y	0.88	0.85	-2.9%	
PCB-45 22'36'-TeCB	23.29	9.68E+05	0.81 Y	0.77	0.76	-0.6%	
PCB-51 22'46'-TeCB	23.37	1.04E+06	0.82 Y	0.86	0.82	-4.6%	
PCB-46 22'36'-TeCB	23.57	8.57E+05	0.74 Y	0.70	0.68	-3.4%	
PCB-52 22'55'-TeCB	24.83	1.06E+06	0.77 Y	0.84	0.83	-1.4%	
PCB-73 23'5'6'-TeCB	24.97	1.35E+06	0.75 Y	1.11	1.06	-4.6%	
PCB-43 22'35'-TeCB	25.06	8.63E+05	0.75 Y	0.71	0.68	-4.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	2.50E+06	0.75 Y	1.02	0.98	-3.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	1.01E+06	0.77 Y	0.84	0.79	-5.5%	
PCB-44/47/65 ...-TeCB	25.76	3.36E+06	0.79 Y	0.90	0.88	-2.5%	
PCB-59/62/75 ...-TeCB	26.04	4.29E+06	0.80 Y	1.17	1.13	-3.3%	
PCB-42 22'34'-TeCB	26.20	9.26E+05	0.75 Y	0.76	0.73	-4.4%	
PCB-41 22'34'-TeCB	26.54	8.37E+05	0.80 Y	0.69	0.66	-5.2%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	2.09E+06	0.82 Y	0.86	0.82	-4.1%	
PCB-64 234'6'-TeCB	26.83	1.50E+06	0.75 Y	1.22	1.18	-3.1%	
PCB-72 23'55'-TeCB	27.55	1.50E+06	0.80 Y	1.21	1.18	-2.1%	
PCB-68 23'45'-TeCB	27.81	1.57E+06	0.77 Y	1.28	1.24	-3.0%	
PCB-57 233'5'-TeCB	28.18	1.41E+06	0.85 Y	1.16	1.11	-4.3%	
PCB-58 233'5'-TeCB	28.38	1.44E+06	0.79 Y	1.18	1.13	-4.0%	
PCB-67 23'45'-TeCB	28.54	1.59E+06	0.76 Y	1.26	1.25	-0.7%	
PCB-63 234'5'-TeCB	28.77	1.60E+06	0.79 Y	1.30	1.26	-3.2%	
PCB-61/70/74/76 ...-TeCB	29.06	5.90E+06	0.78 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.34	1.35E+06	0.80 Y	1.10	1.06	-3.5%	
PCB-55 233'4'-TeCB	29.49	1.40E+06	0.79 Y	1.12	1.10	-1.8%	
PCB-56 233'4'-TeCB	29.93	1.33E+06	0.78 Y	1.11	1.05	-5.4%	
PCB-60 2344'-TeCB	30.12	1.42E+06	0.78 Y	1.14	1.12	-1.4%	
PCB-80 33'55'-TeCB	30.45	1.64E+06	0.76 Y	1.31	1.29	-1.8%	
PCB-79 33'45'-TeCB	31.78	1.69E+06	0.80 Y	1.31	1.33	1.6%	
PCB-78 33'45'-TeCB	32.27	1.26E+06	0.77 Y	1.06	0.99	-6.5%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-96 22'366'-PeCB	26.03	8.58E+05	0.71 Y	1.23	1.24	0.8%	
PCB-103 22'45'6'-PeCB	27.72	9.36E+05	0.64 Y	0.93	0.91	-2.5%	
PCB-94 22'356'-PeCB	27.91	7.83E+05	0.65 Y	0.80	0.76	-5.2%	
PCB-95 22'35'6'-PeCB	28.30	8.29E+05	0.59 Y	0.87	0.80	-7.3%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	1.71E+06	0.59 Y	0.86	0.83	-4.0%	
PCB-102 22'456'-PeCB	28.63	9.57E+05	0.62 Y	0.97	0.93	-4.2%	
PCB-98 22'34'6'-PeCB	28.69	7.04E+05	0.64 Y	0.76	0.68	-10.0%	
PCB-88 22'346'-PeCB	28.99	7.38E+05	0.59 Y	0.80	0.72	-10.4%	
PCB-91 22'34'6'-PeCB	29.06	9.82E+05	0.56 Y	0.94	0.95	0.8%	
PCB-84 22'33'6'-PeCB	29.25	6.84E+05	0.58 Y	0.72	0.66	-7.4%	
PCB-89 22'346'-PeCB	29.67	7.66E+05	0.63 Y	0.76	0.74	-2.8%	
PCB-121 23'45'6'-PeCB	30.02	1.19E+06	0.67 Y	1.20	1.15	-3.9%	
PCB-92 22'355'-PeCB	30.33	8.33E+05	0.61 Y	0.82	0.81	-1.6%	
PCB-113/90/101 ...-PeCB	30.82	2.96E+06	0.62 Y	0.99	0.96	-2.9%	
PCB-83 22'33'5'-PeCB	31.26	7.27E+05	0.67 Y	0.71	0.70	-1.5%	
PCB-99 22'44'5'-PeCB	31.36	9.10E+05	0.63 Y	0.92	0.88	-4.2%	
PCB-112 233'56'-PeCB	31.46	1.16E+06	0.65 Y	1.17	1.12	-3.8%	
PCB-108/119/86/97/125...-PeCB	31.80	5.82E+06	0.61 Y	0.98	0.94	-4.0%	
PCB-117 234'56'-PeCB	32.34	1.19E+06	0.62 Y	1.14	1.15	1.3%	
PCB-116/85 23456/22'344'-PeCB	32.43	1.79E+06	0.62 Y	0.94	0.87	-7.6%	
PCB-110 233'4'6'-PeCB	32.54	1.10E+06	0.62 Y	1.12	1.07	-4.4%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	1.15E+06	0.66 Y	1.16	1.11	-4.2%	
PCB-82 22'33'4-PeCB	32.83	6.91E+05	0.62 Y	0.70	0.67	-4.0%	
PCB-111 233'55'-PeCB	33.15	1.20E+06	0.64 Y	1.22	1.17	-4.5%	
PCB-120 23'455'-PeCB	33.54	1.18E+06	0.65 Y	1.21	1.14	-5.6%	
PCB-107/124 ...-PeCB	34.51	2.12E+06	0.63 Y	1.10	1.03	-6.4%	
PCB-109 233'46-PeCB	34.72	1.09E+06	0.61 Y	1.25	1.05	-16.1%	
PCB-106 233'45-PeCB	34.94	1.12E+06	0.63 Y	1.11	1.08	-2.0%	
PCB-122 233'4'5'-PeCB	35.40	1.01E+06	0.63 Y	0.99	0.96	-3.7%	
PCB-127 33'455'-PeCB	37.35	1.08E+06	0.63 Y	1.10	1.04	-5.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-152 22'3566'-HxCB	30.84	1.03E+06	1.37 Y	1.17	1.12	-4.2%	
PCB-150 22'34'66'-HxCB	30.98	1.02E+06	1.19 Y	1.18	1.10	-6.1%	
PCB-136 22'33'66'-HxCB	31.29	8.99E+05	1.33 Y	1.07	0.98	-8.3%	
PCB-145 22'3466'-HxCB	31.56	1.00E+06	1.26 Y	1.11	1.09	-2.4%	
PCB-148 22'34'56'-HxCB	32.83	7.25E+05	1.41 Y	1.18	1.14	-3.9%	
PCB-151/135 ...-HxCB	33.36	1.44E+06	1.27 Y	1.14	1.13	-1.1%	
PCB-154 22'44'56'-HxCB	33.57	8.24E+05	1.31 Y	1.34	1.29	-3.8%	
PCB-144 22'345'6-HxCB	33.83	7.12E+05	1.24 Y	1.18	1.12	-5.7%	
PCB-147/149 ...-HxCB	34.13	1.47E+06	1.29 Y	1.18	1.15	-2.3%	
PCB-134 22'33'56-HxCB	34.31	5.72E+05	1.37 Y	0.92	0.90	-3.0%	
PCB-143 22'3456'-HxCB	34.39	7.05E+05	1.29 Y	1.13	1.10	-2.2%	
PCB-139/140 ...-HxCB	34.66	1.49E+06	1.23 Y	1.21	1.16	-3.5%	
PCB-131 22'33'46-HxCB	34.83	6.51E+05	1.25 Y	1.03	1.02	-0.6%	
PCB-142 22'3456-HxCB	34.98	5.89E+05	1.28 Y	0.99	0.92	-6.8%	
PCB-132 22'33'46'-HxCB	35.21	6.45E+05	1.26 Y	1.03	1.01	-2.0%	
PCB-133 22'33'55'-HxCB	35.61	7.07E+05	1.26 Y	1.13	1.11	-2.1%	
PCB-165 233'55'6-HxCB	35.95	8.89E+05	1.25 Y	1.41	1.39	-1.1%	
PCB-146 22'34'55'-HxCB	36.17	7.40E+05	1.25 Y	1.20	1.16	-3.5%	
PCB-161 233'45'6-HxCB	36.29	9.19E+05	1.24 Y	1.52	1.44	-5.3%	
PCB-153/168 ...-HxCB	36.72	1.81E+06	1.24 Y	1.46	1.42	-2.7%	
PCB-141 22'3455'-HxCB	36.86	6.67E+05	1.26 Y	1.09	1.05	-4.0%	
PCB-130 22'33'45'-HxCB	37.21	6.08E+05	1.33 Y	0.97	0.95	-2.0%	
PCB-137 22'344'5-HxCB	37.41	7.27E+05	1.30 Y	1.16	1.14	-2.1%	
PCB-164 233'4'5'6-HxCB	37.49	9.46E+05	1.33 Y	1.50	1.48	-1.0%	
PCB-163/138/129 ...-HxCB	37.78	2.21E+06	1.21 Y	1.19	1.15	-3.2%	
PCB-160 233'456-HxCB	37.92	9.44E+05	1.29 Y	1.52	1.48	-2.3%	
PCB-158 233'44'6-HxCB	38.10	1.05E+06	1.33 Y	1.66	1.64	-1.2%	
PCB-128/166 ...-HxCB	38.84	1.64E+06	1.18 Y	0.90	0.86	-4.3%	
PCB-159 233'455'-HxCB	39.65	1.05E+06	1.27 Y	1.11	1.11	-0.8%	
PCB-162 233'4'55'-HxCB	39.89	9.62E+05	1.13 Y	1.07	1.01	-5.6%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-179 22'33'566'-HpCB	35.85	6.25E+05	1.09 Y	1.16	1.16	0.1%	
PCB-184 22'344'66'-HpCB	36.32	5.87E+05	1.02 Y	1.13	1.09	-3.2%	

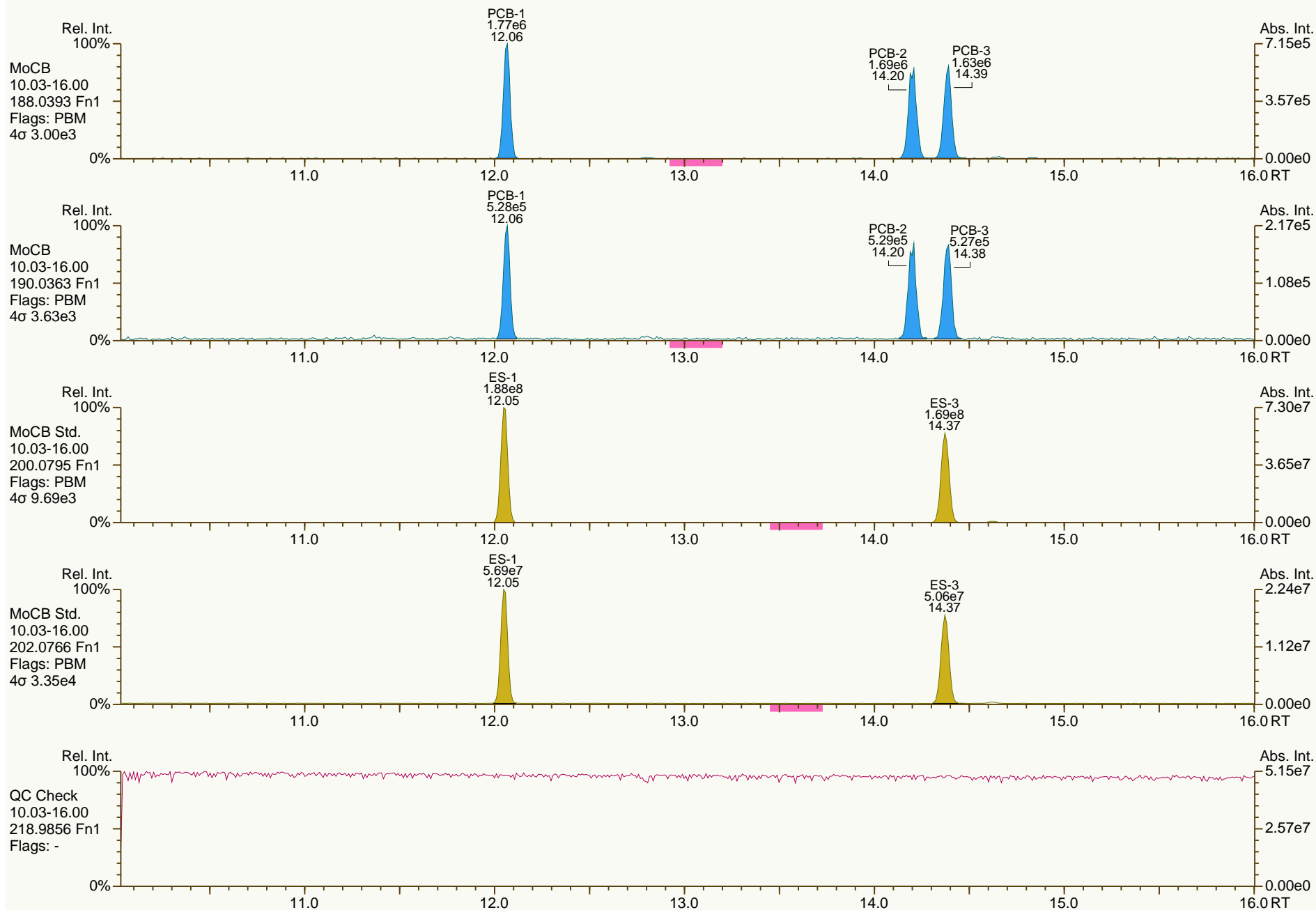


PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.61	6.55E+05	1.14 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.01	5.96E+05	1.00 Y	1.13	1.11	-1.5%	
PCB-178 22'33'55'6'-HpCB	38.14	4.31E+05	1.08 Y	0.84	0.80	-4.9%	
PCB-175 22'33'45'6'-HpCB	38.69	6.43E+05	1.04 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.91	6.87E+05	1.08 Y	1.14	1.12	-1.7%	
PCB-182 22'344'56'-HpCB	39.09	6.98E+05	1.03 Y	1.18	1.14	-3.2%	
PCB-183 22'344'5'6'-HpCB	39.44	7.24E+05	1.15 Y	1.20	1.18	-2.1%	
PCB-185 22'3455'6'-HpCB	39.52	6.34E+05	1.02 Y	1.06	1.03	-2.6%	
PCB-174 22'33'456'-HpCB	39.63	6.37E+05	1.07 Y	0.99	1.04	4.9%	
PCB-177 22'33'45'6'-HpCB	40.01	5.78E+05	1.13 Y	0.95	0.94	-1.0%	
PCB-181 22'344'56'-HpCB	40.36	6.58E+05	1.09 Y	1.09	1.07	-1.4%	
PCB-171/173 ...-HpCB	40.54	1.11E+06	1.08 Y	0.95	0.90	-4.7%	
PCB-172 22'33'455'-HpCB	41.89	5.95E+05	1.09 Y	0.99	0.97	-2.0%	
PCB-192 233'455'6'-HpCB	42.14	7.80E+05	1.06 Y	1.29	1.27	-1.3%	
PCB-180/193 ...-HpCB	42.42	1.50E+06	0.95 Y	1.26	1.22	-3.0%	
PCB-191 233'44'5'6'-HpCB	42.75	8.57E+05	1.12 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.52	5.51E+05	0.98 Y	1.14	1.06	-6.8%	
PCB-190 233'44'56'-HpCB	43.98	8.22E+05	1.07 Y	1.66	1.58	-5.0%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-201 22'33'45'66'-OcCB	40.90	6.75E+05	0.92 Y	1.22	1.22	0.1%	
PCB-204 22'344'566'-OcCB	41.48	6.21E+05	0.94 Y	1.12	1.13	0.8%	
PCB-197 22'33'44'66'-OcCB	41.67	6.41E+05	0.90 Y	1.19	1.16	-2.4%	
PCB-200 22'33'4566'-OcCB	41.76	5.73E+05	0.90 Y	1.11	1.04	-6.2%	
PCB-198/199 ...-OcCB	44.09	8.75E+05	0.91 Y	0.81	0.79	-2.0%	
PCB-196 22'33'44'56'-OcCB	44.67	4.40E+05	0.99 Y	0.83	0.80	-4.4%	
PCB-203 22'344'55'6'-OcCB	44.84	4.68E+05	0.92 Y	0.87	0.85	-3.0%	
PCB-195 22'33'44'56'-OcCB	45.96	5.10E+05	0.94 Y	0.77	0.74	-3.4%	
PCB-194 22'33'44'55'-OcCB	47.91	5.61E+05	0.90 Y	0.84	0.82	-3.3%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-207 22'33'44'566'-NoCB	46.54	7.50E+05	0.80 Y	1.19	1.16	-2.9%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

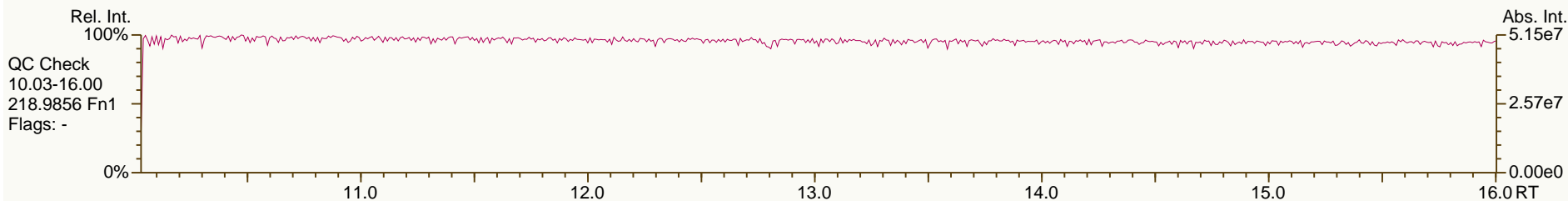
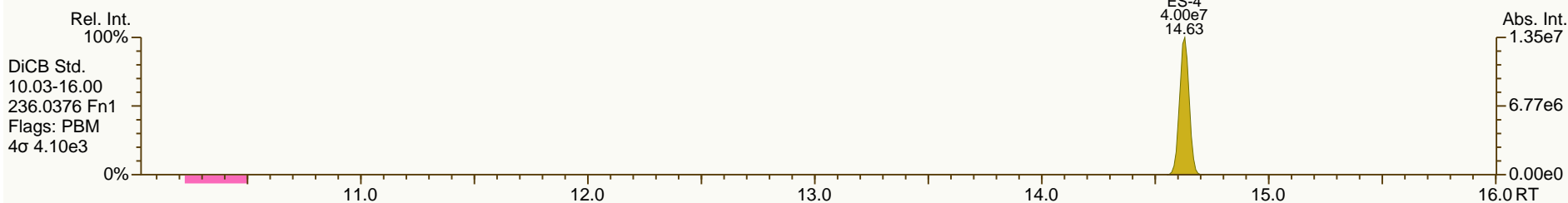
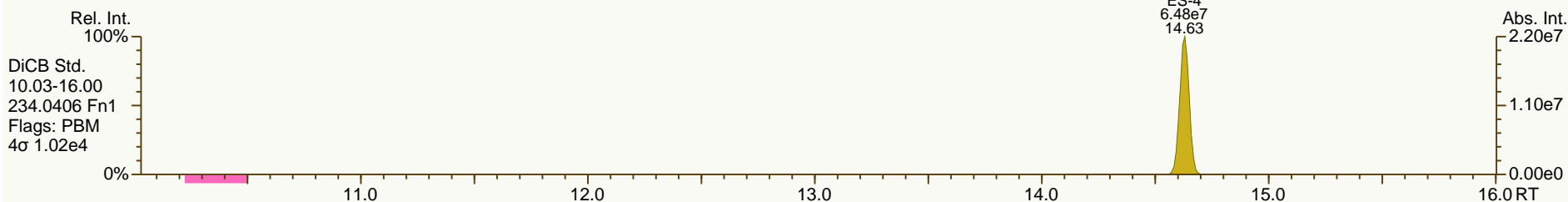
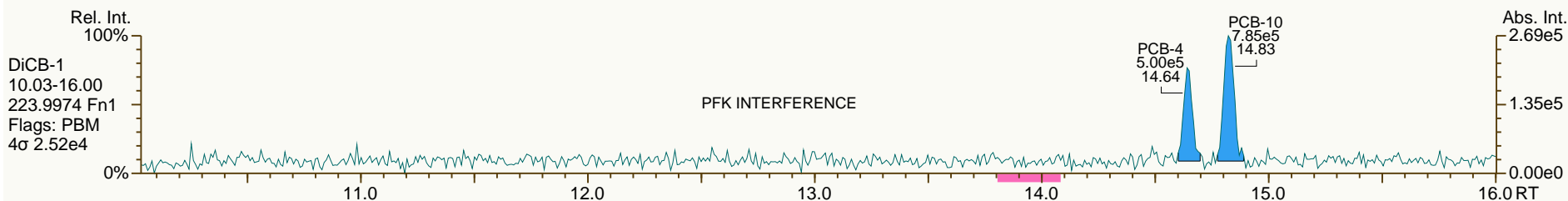
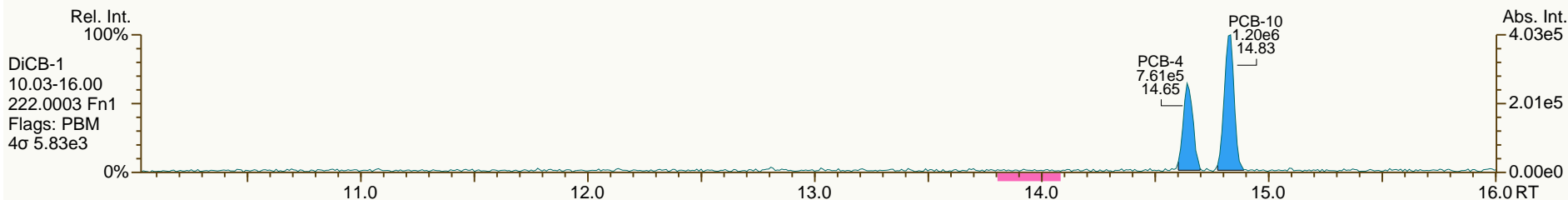
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

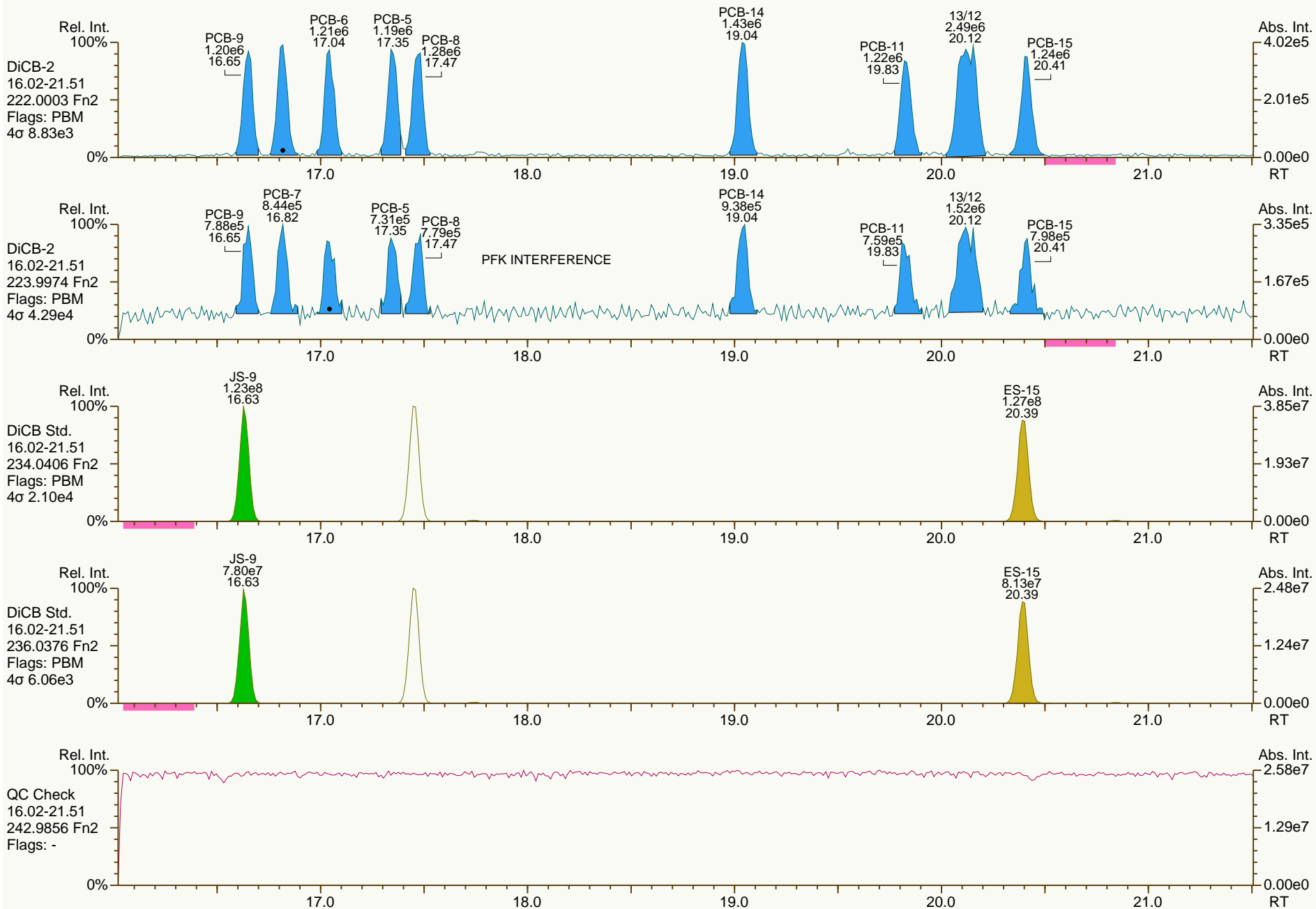
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

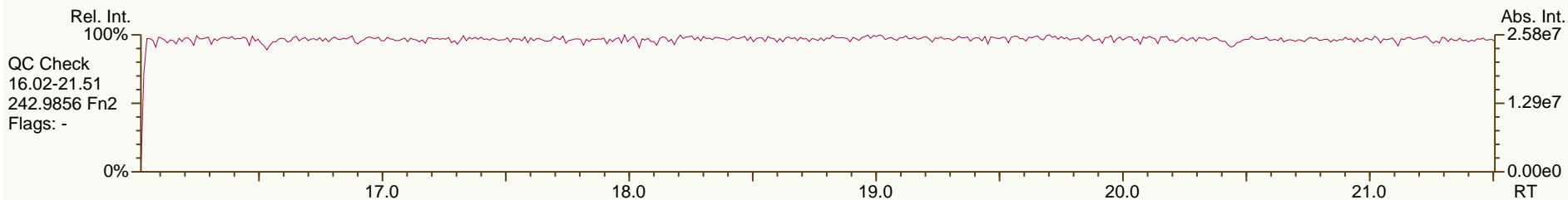
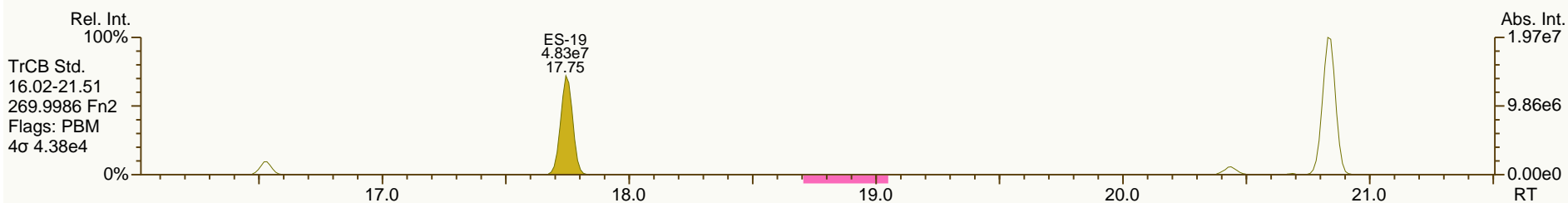
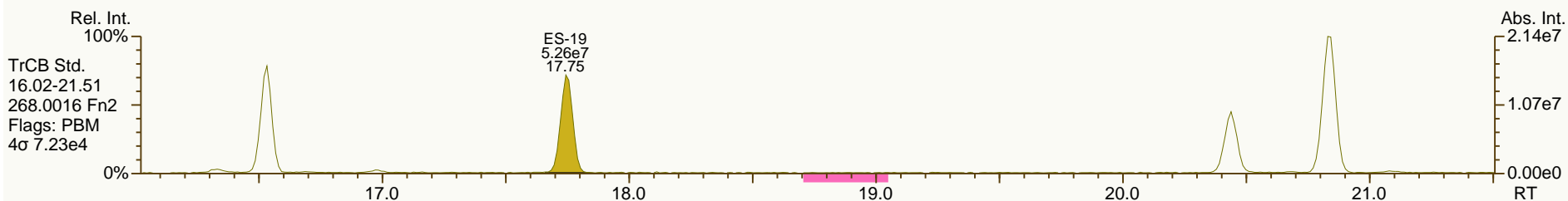
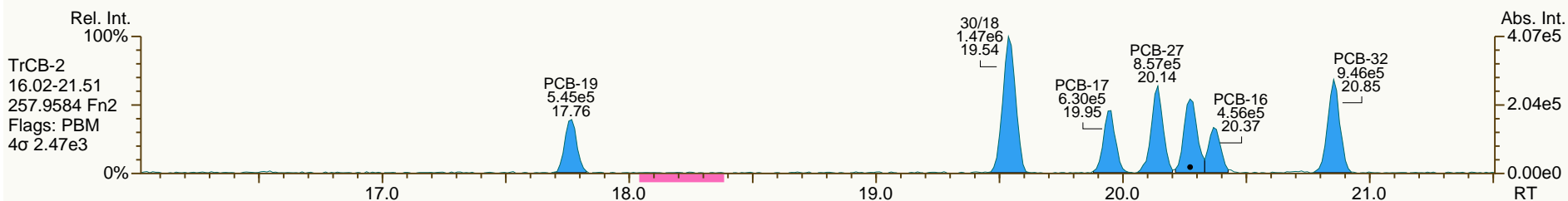
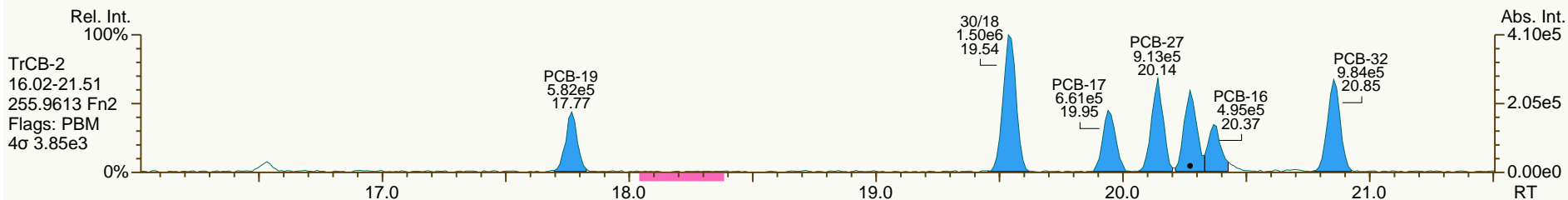
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

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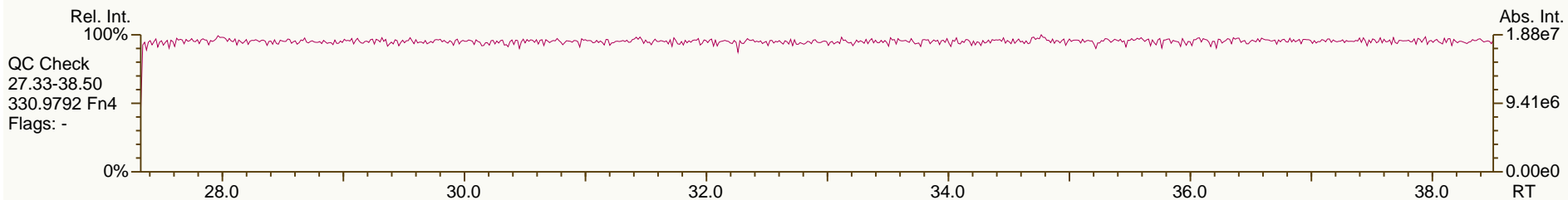
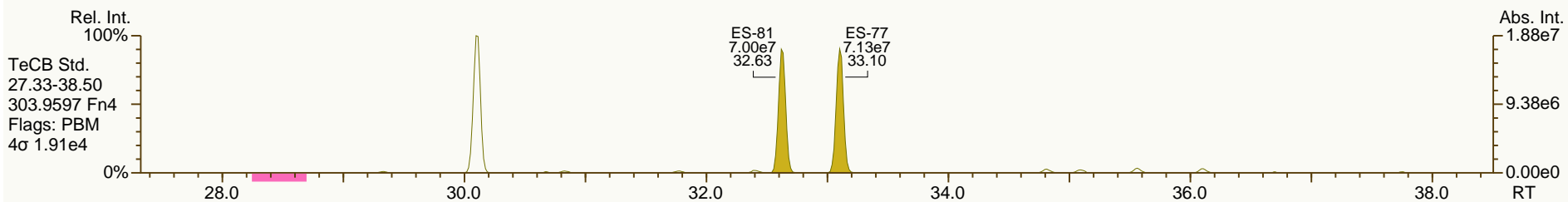
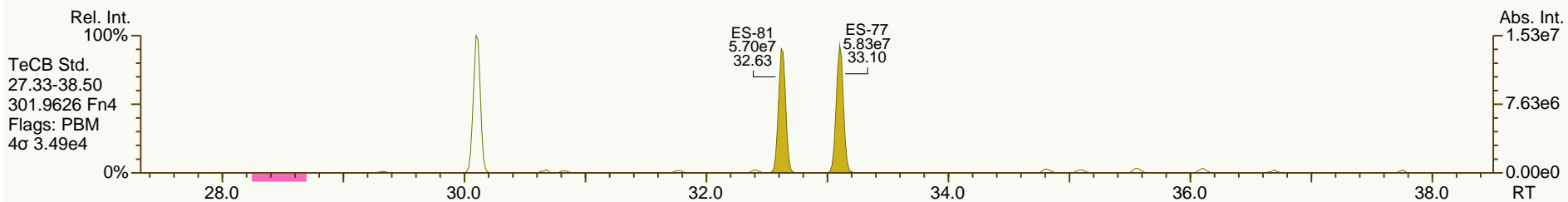
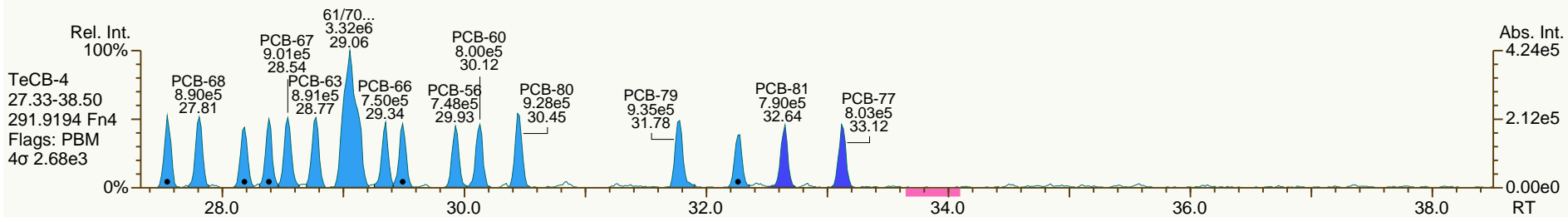
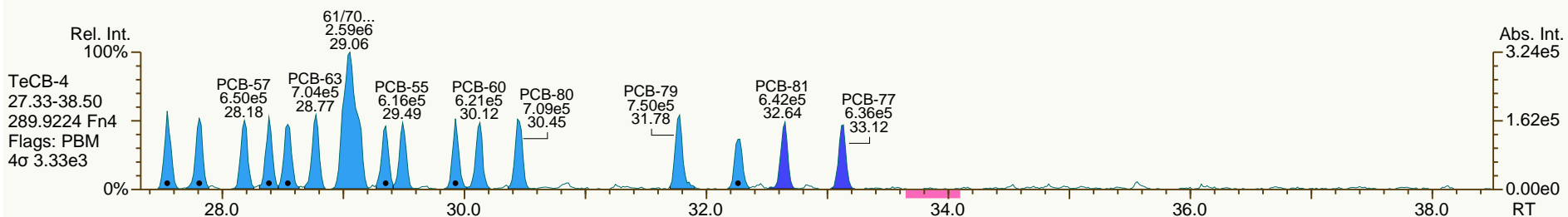




SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

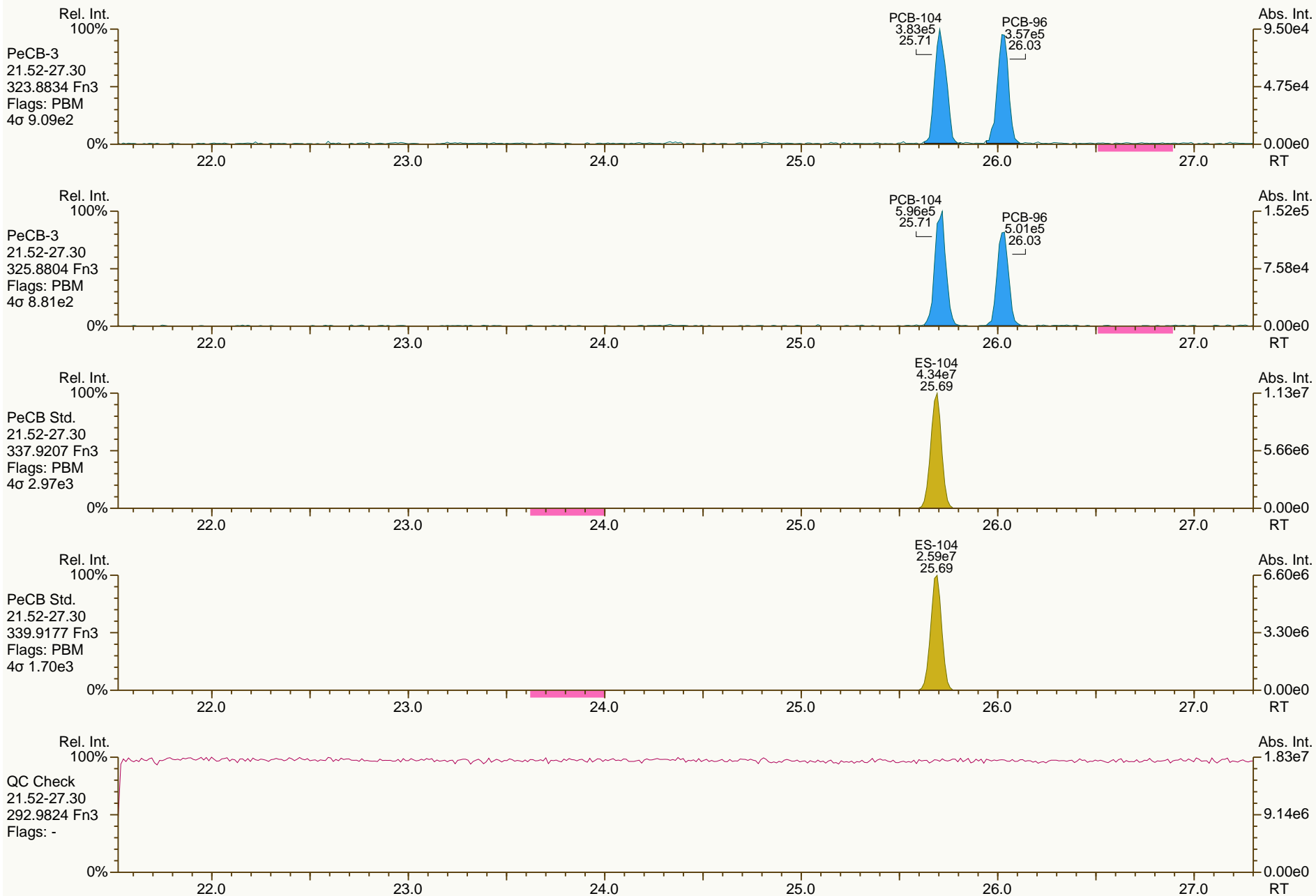
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

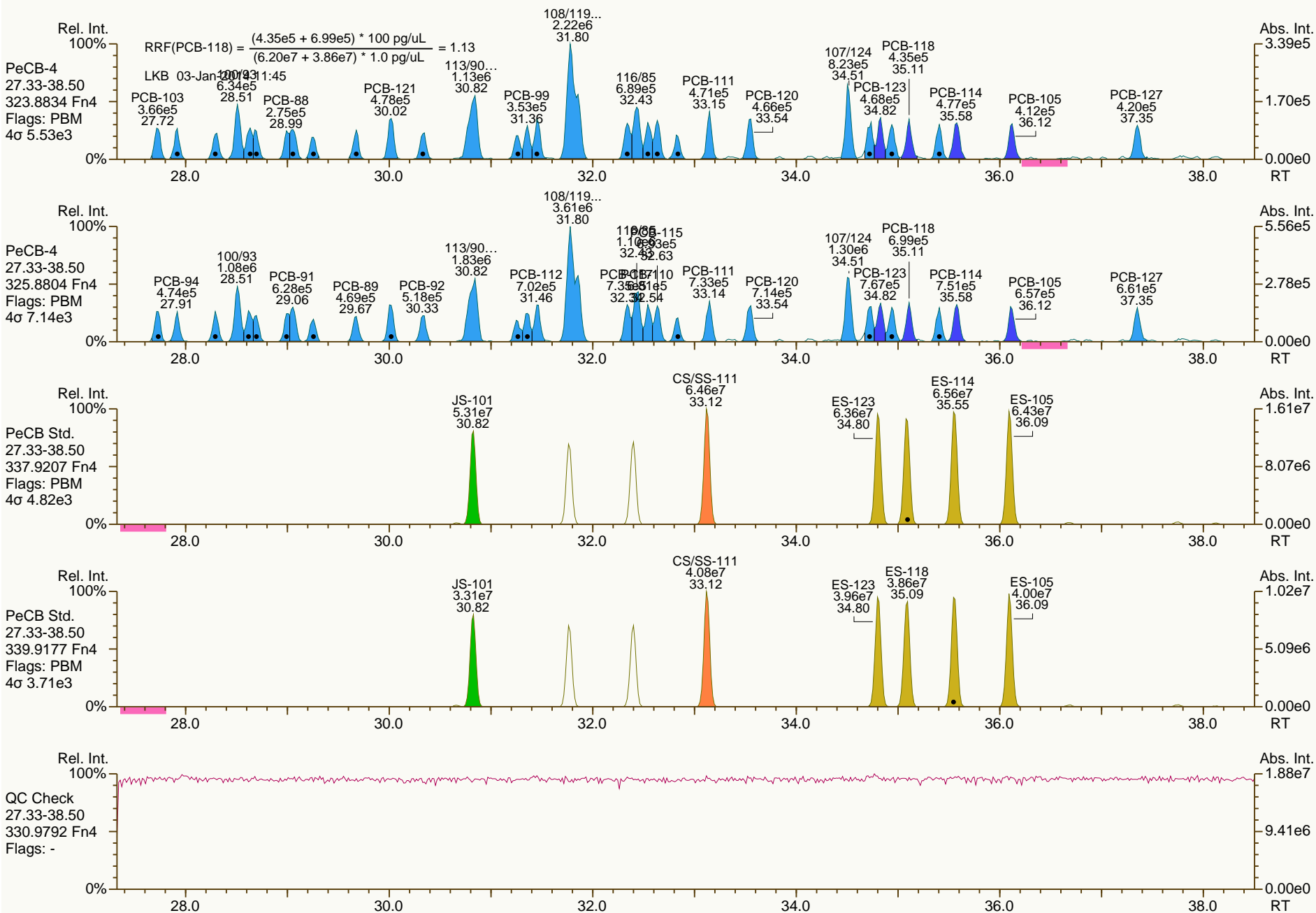
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

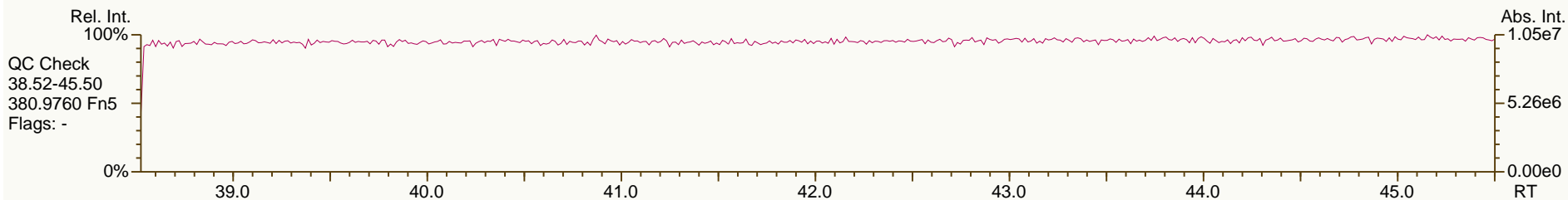
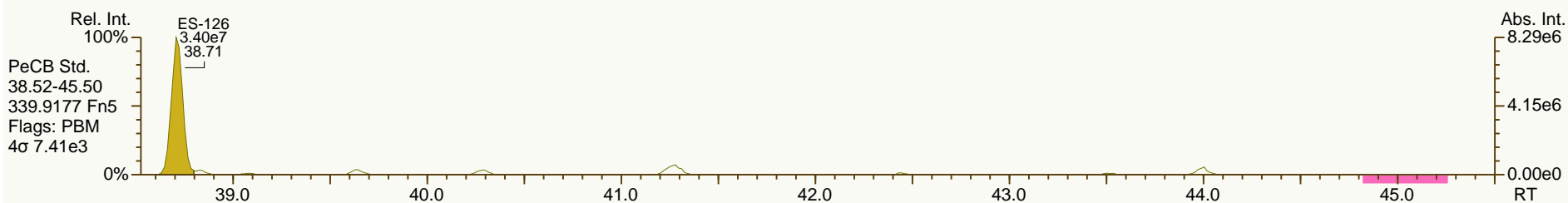
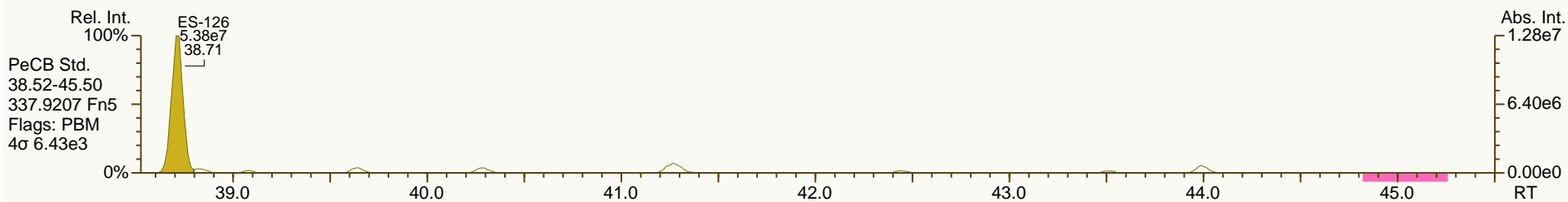
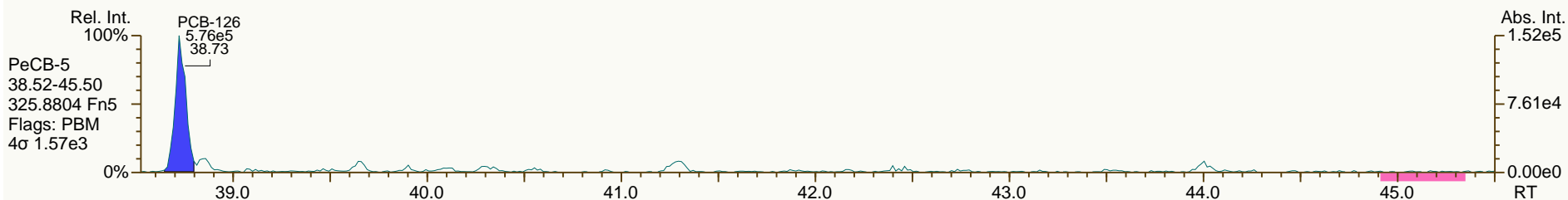
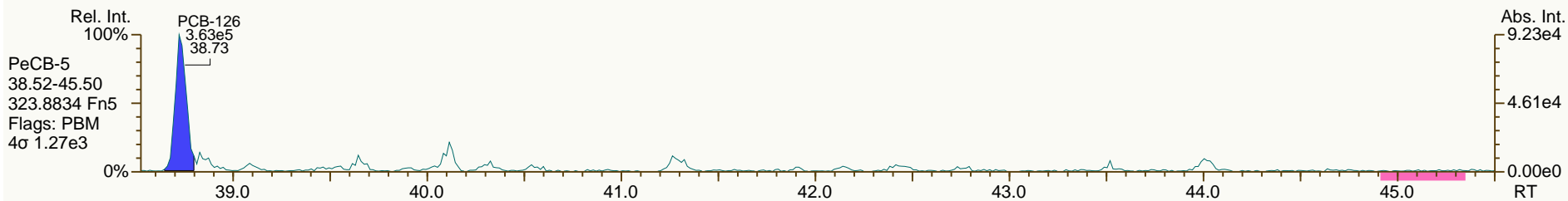
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

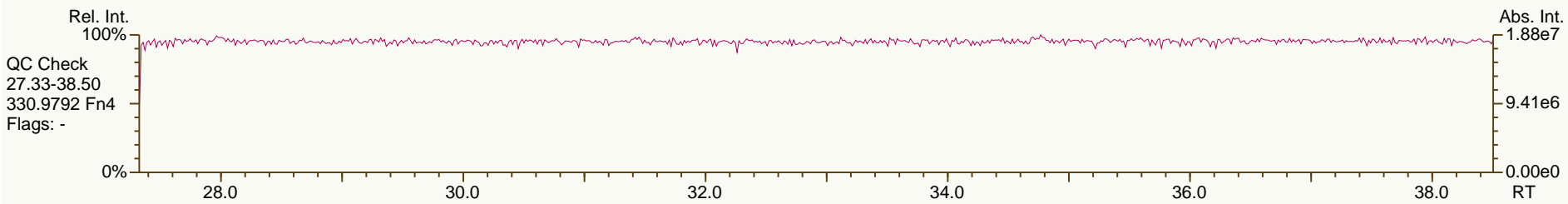
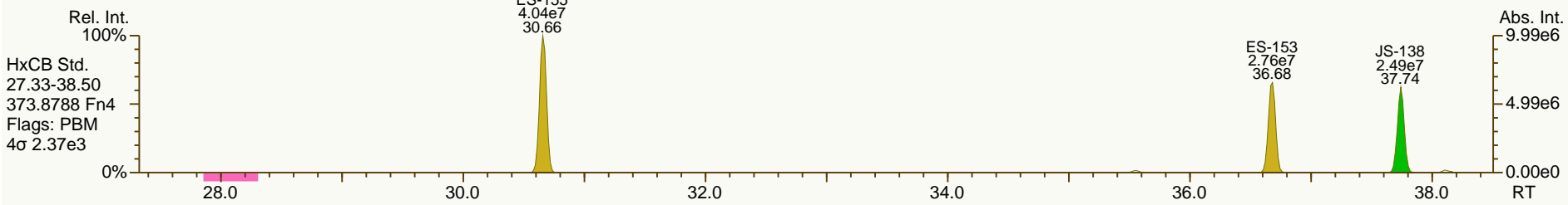
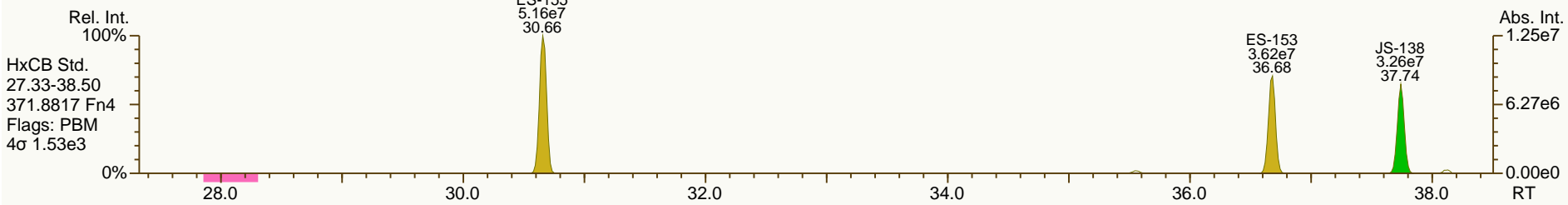
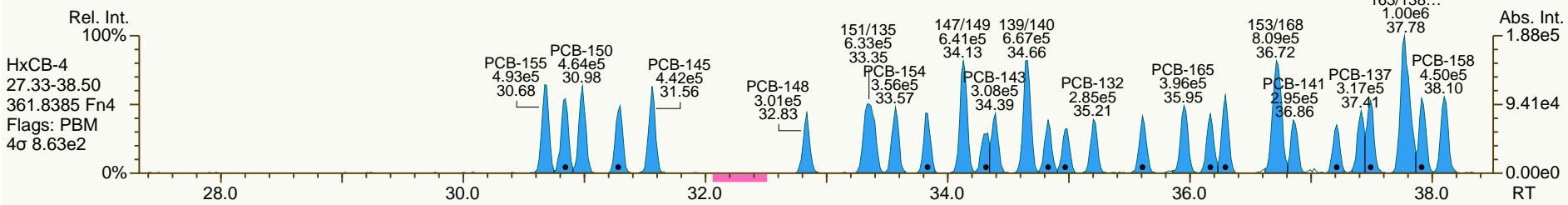
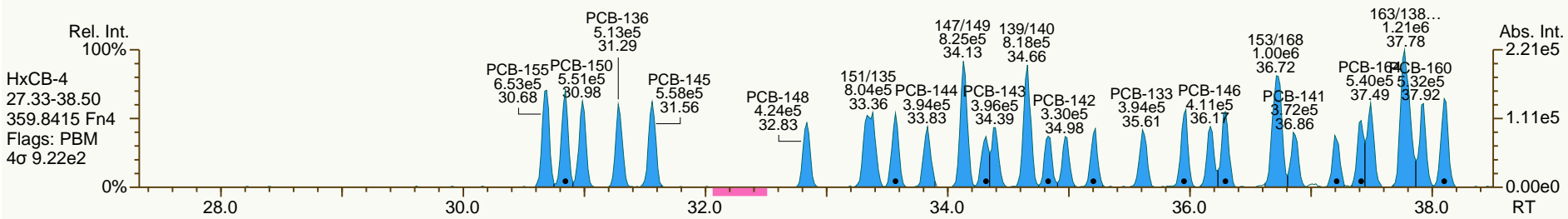
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

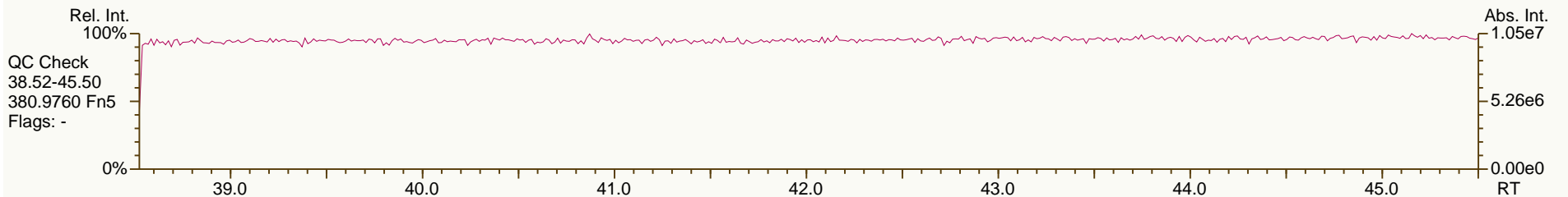
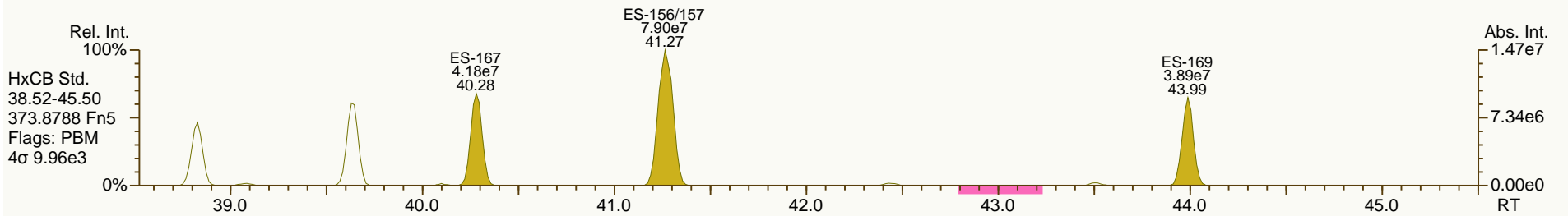
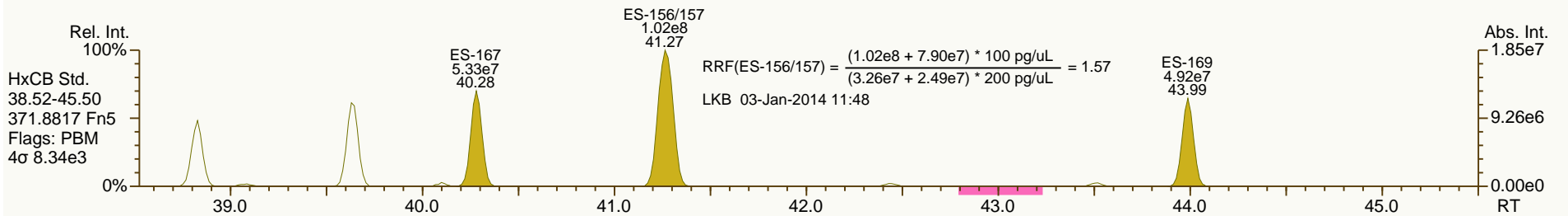
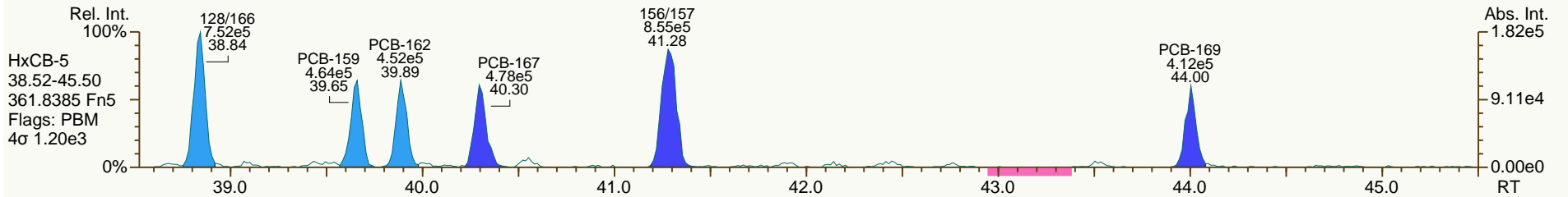
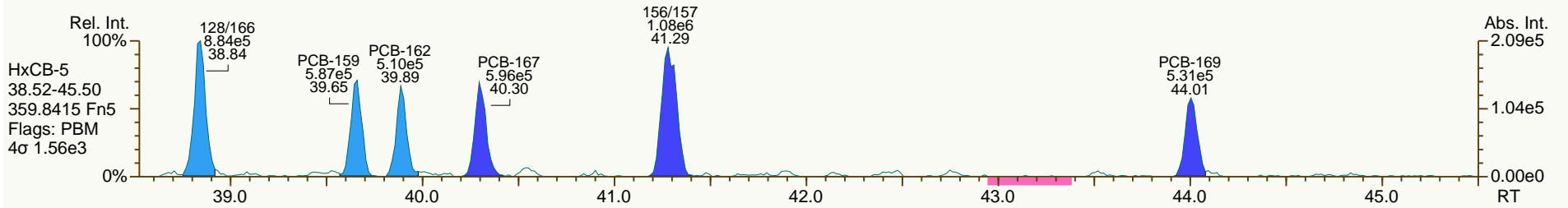
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

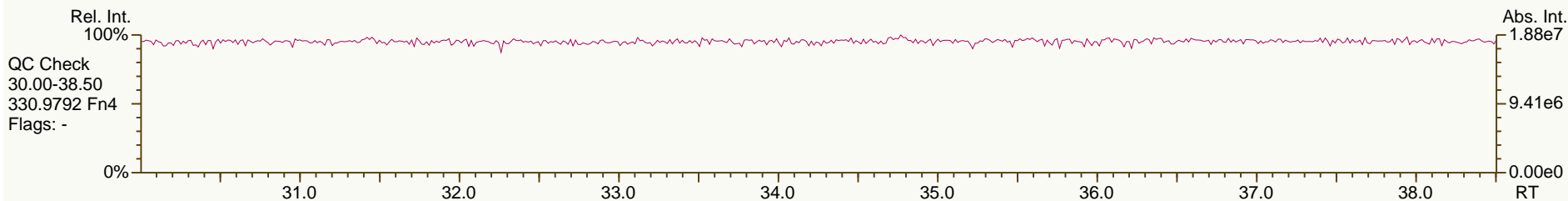
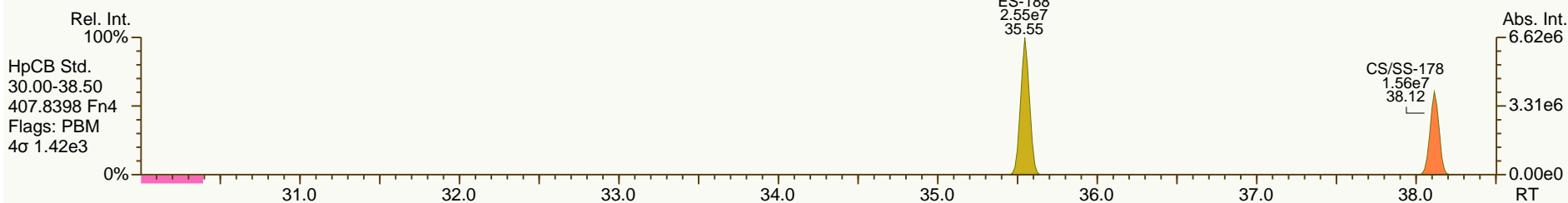
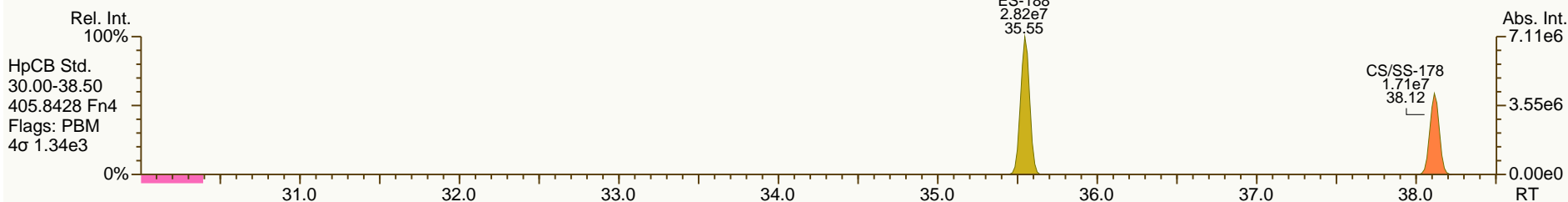
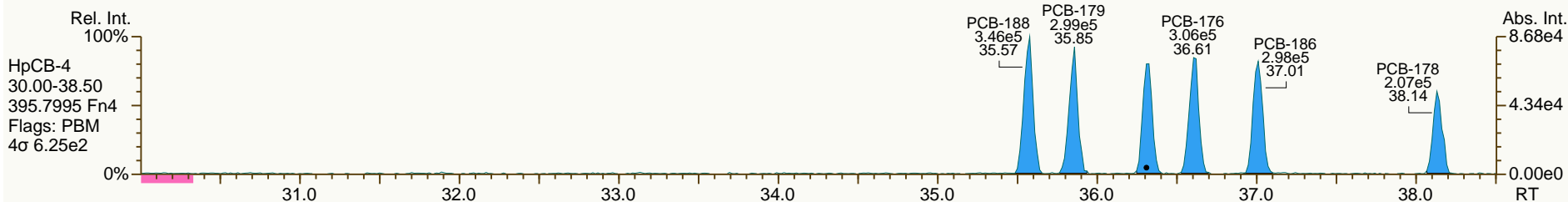
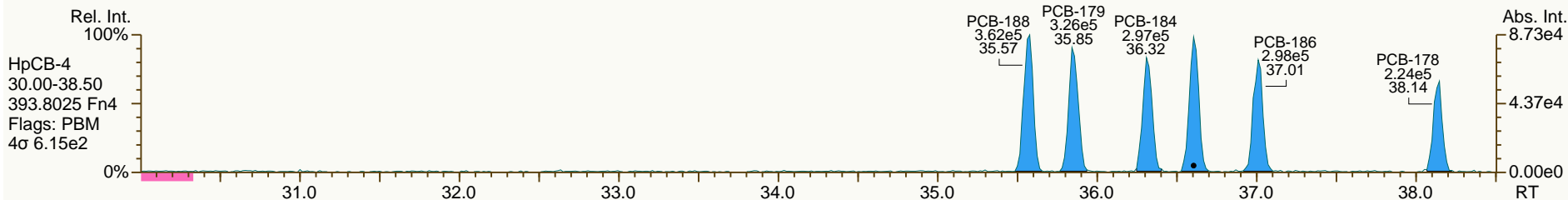
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

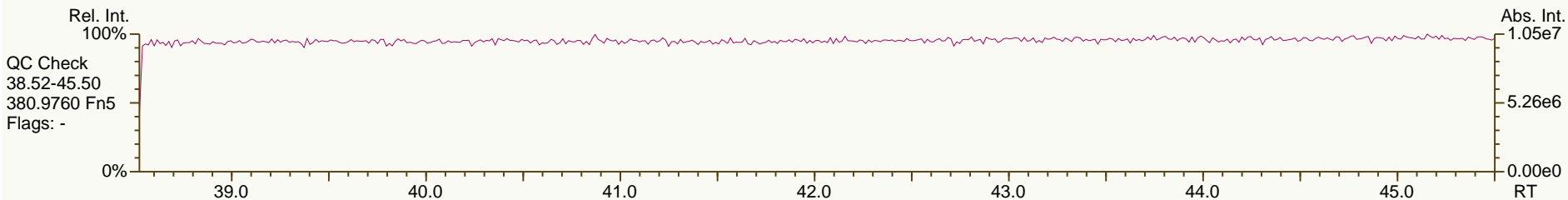
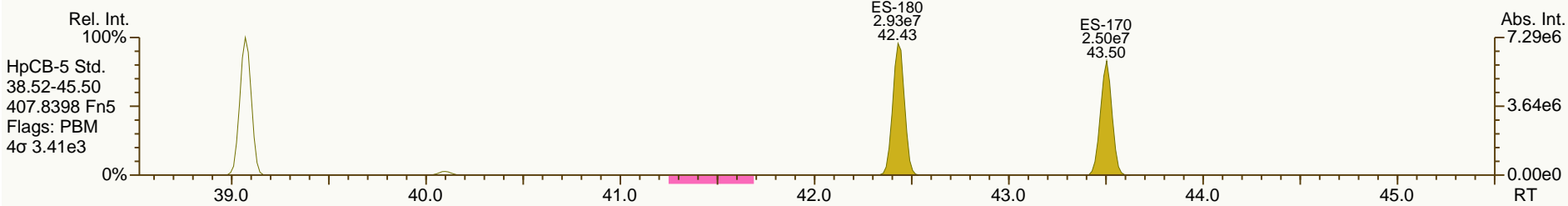
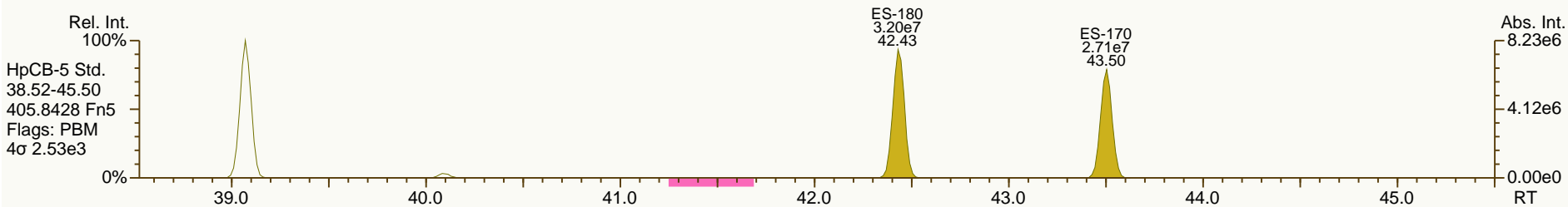
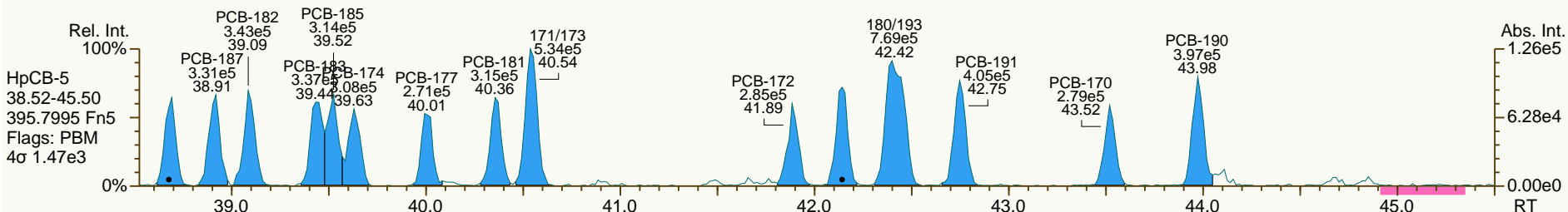
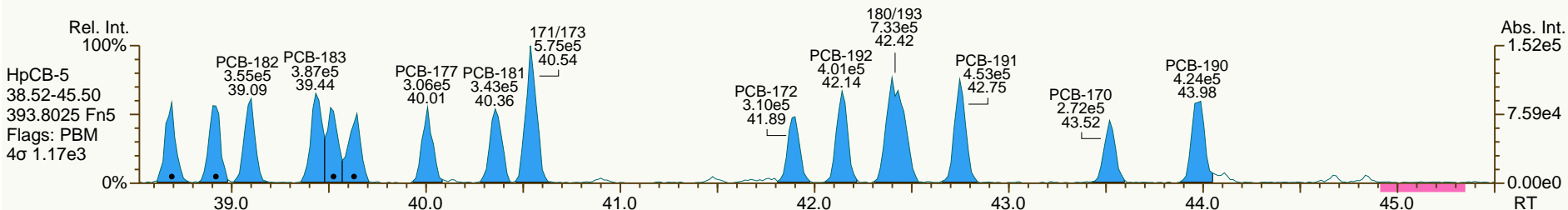
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
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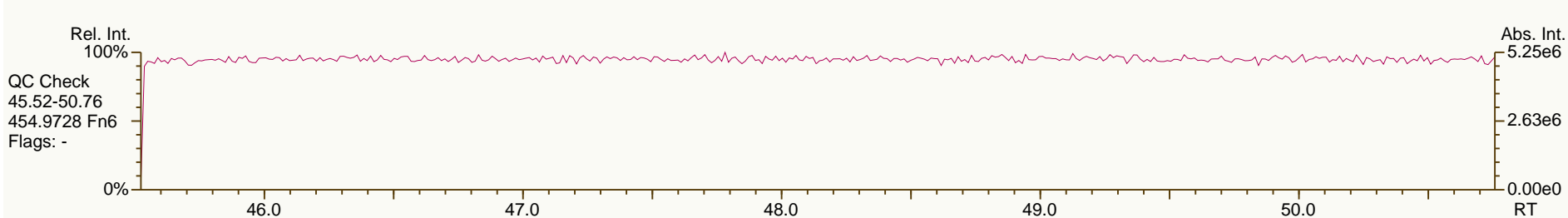
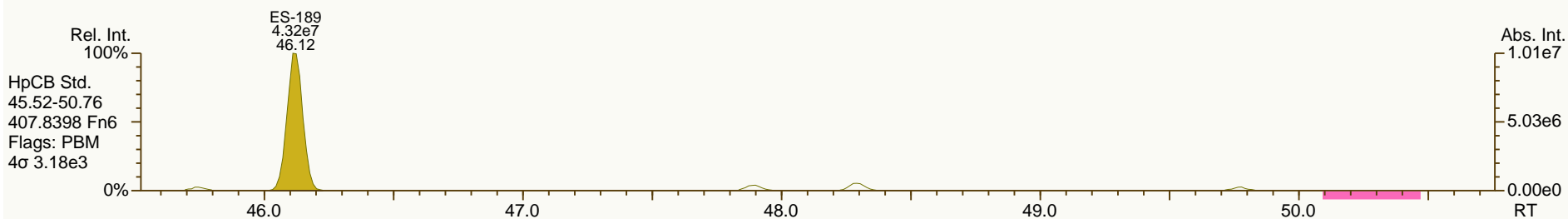
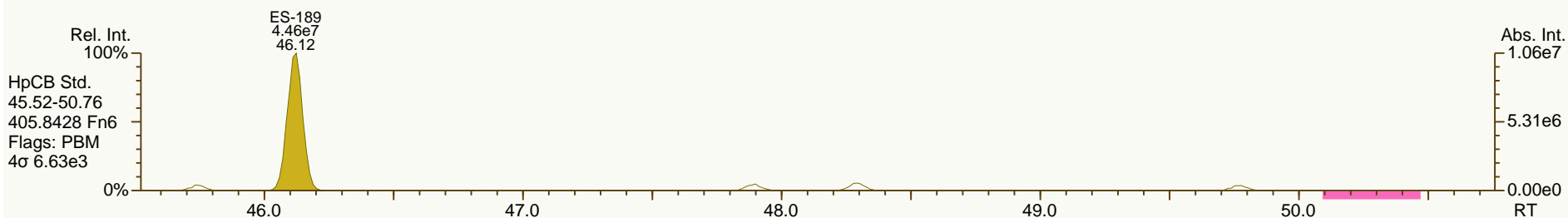
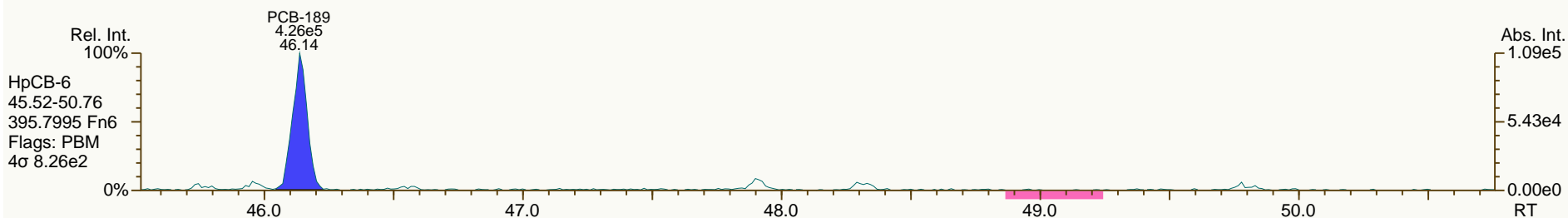
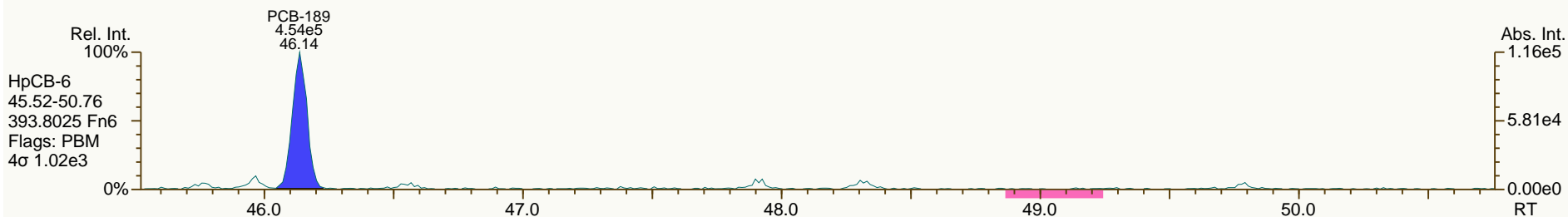




SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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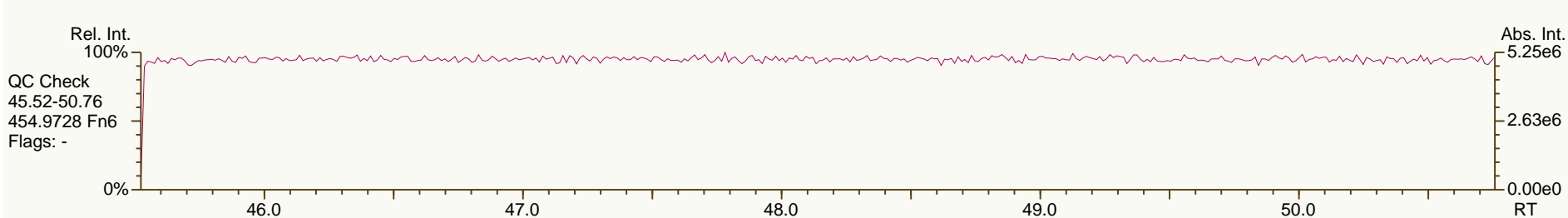
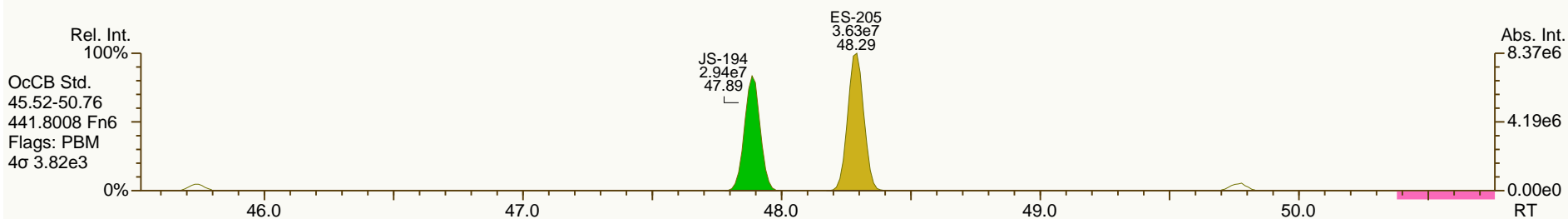
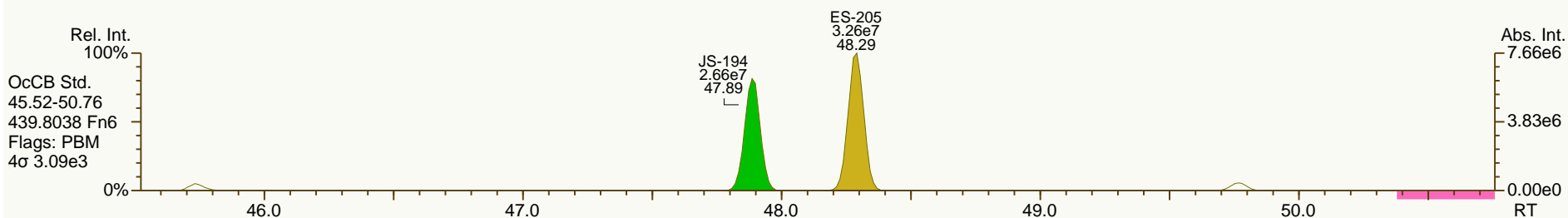
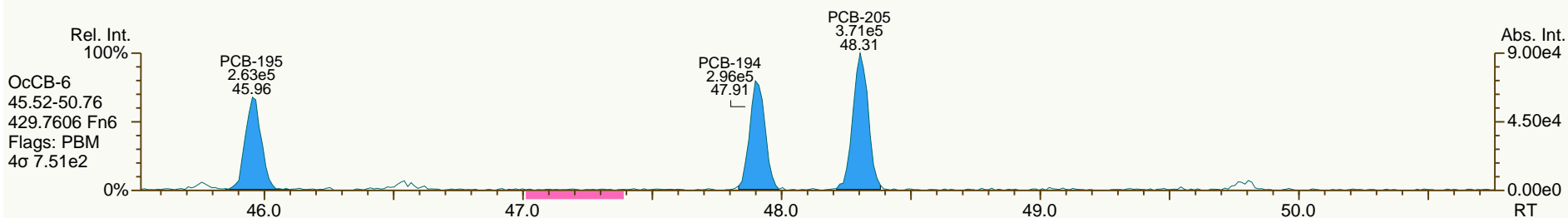
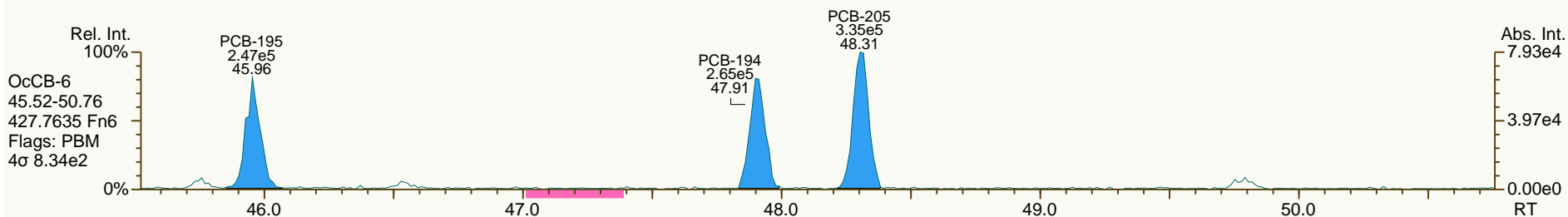
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

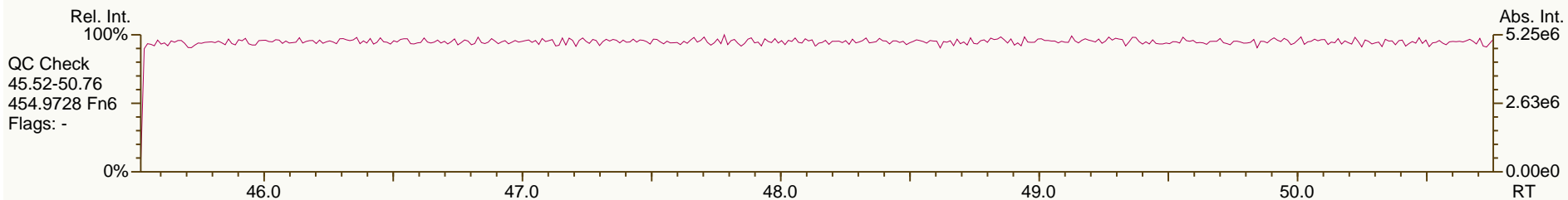
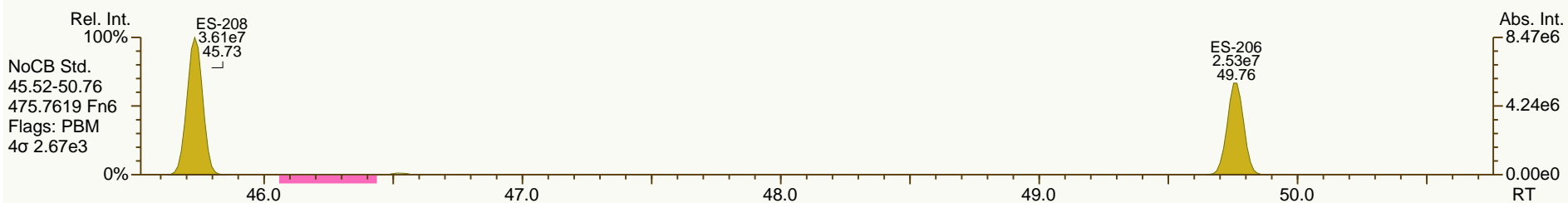
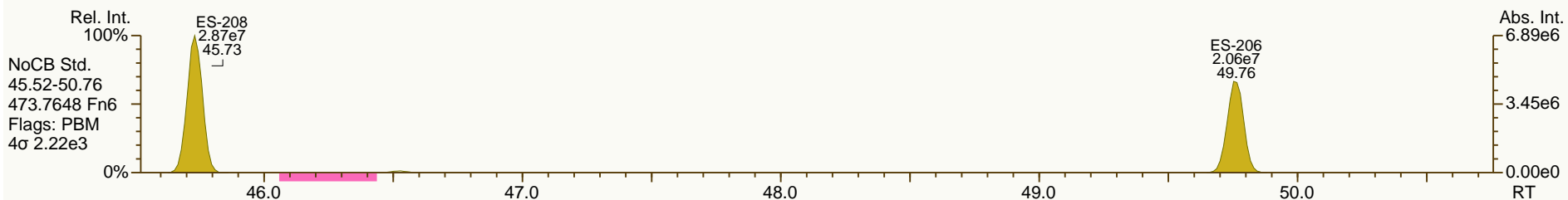
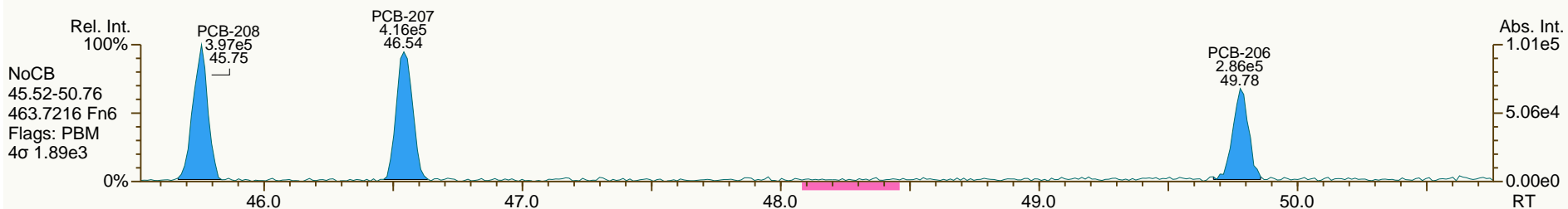
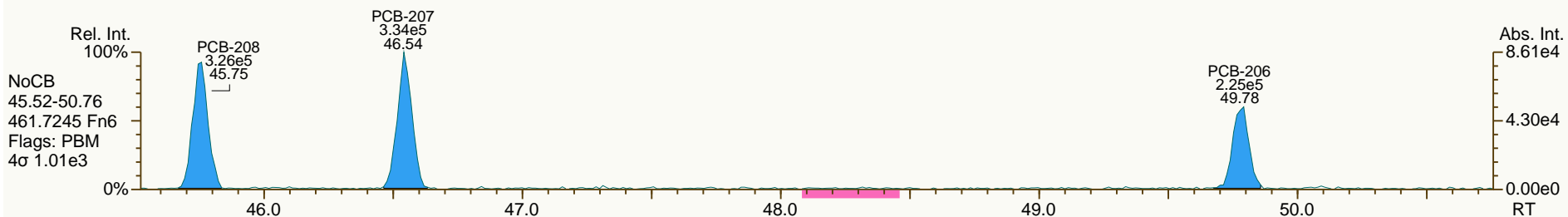
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User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

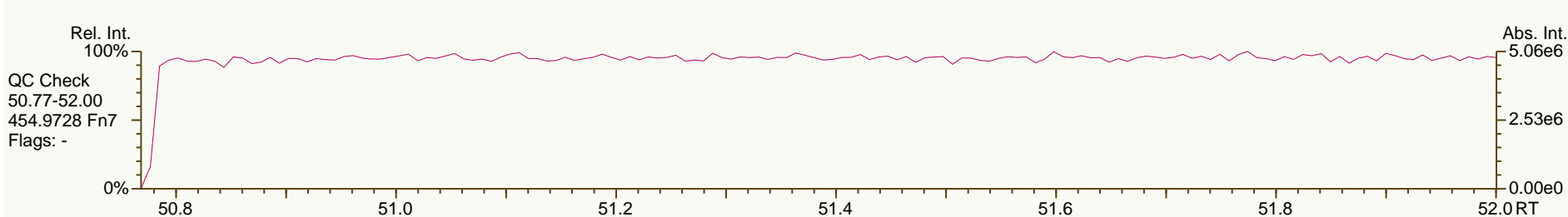
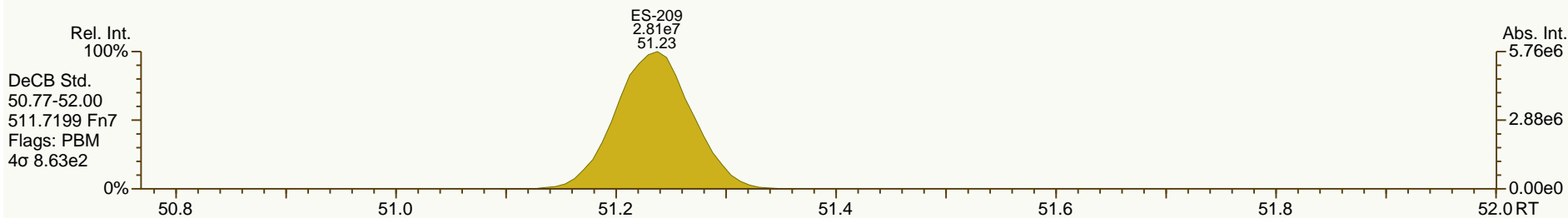
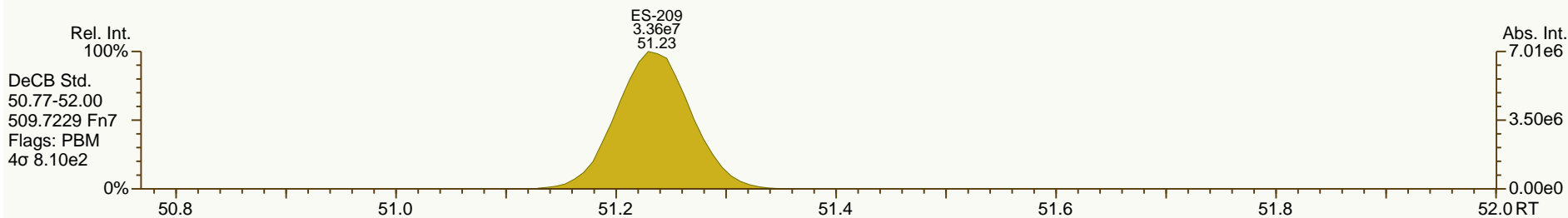
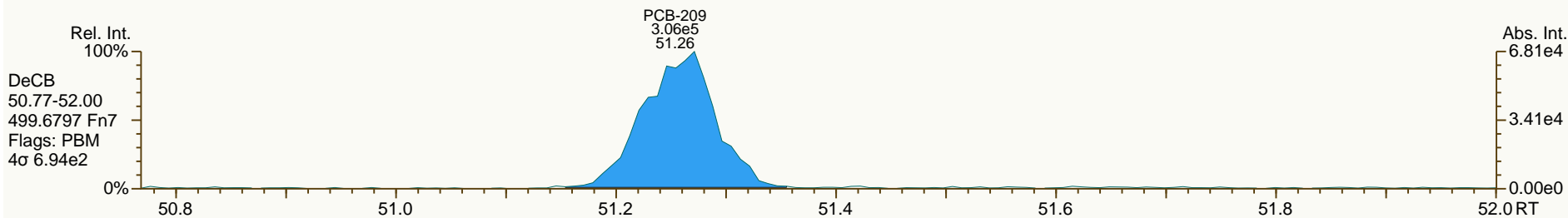
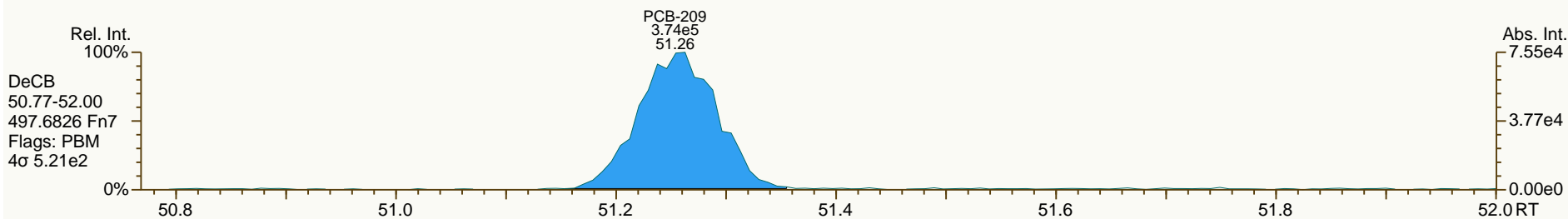
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	7.18E+06	0.79 Y	1.15	1.09	-5.2%	
PCB-81 344'5'-TeCB	32.63	6.81E+06	0.77 Y	1.12	1.08	-3.8%	
PCB-105 233'44'-PeCB	36.11	5.68E+06	0.64 Y	1.11	1.07	-4.0%	
PCB-114 2344'5'-PeCB	35.56	6.19E+06	0.62 Y	1.20	1.15	-4.1%	
PCB-118 23'44'5'-PeCB	35.10	5.72E+06	0.60 Y	1.19	1.13	-5.1%	
PCB-123 23'44'5'-PeCB	34.82	5.95E+06	0.63 Y	1.21	1.16	-3.9%	
PCB-126 33'44'5'-PeCB	38.72	4.77E+06	0.62 Y	1.11	1.05	-5.1%	
PCB-156/157 ...-HxCB	41.28	9.62E+06	1.25 Y	1.10	1.05	-4.7%	
PCB-167 23'44'55'-HxCB	40.29	5.42E+06	1.21 Y	1.16	1.12	-3.2%	
PCB-169 33'44'55'-HxCB	44.00	4.85E+06	1.23 Y	1.12	1.09	-3.1%	
PCB-189 233'44'55'-HpCB	46.13	4.61E+06	1.02 Y	1.07	1.03	-3.6%	
PCB-209 DeCB	51.25	3.38E+06	1.17 Y	1.11	1.06	-4.8%	
ES PCB-1	12.04	2.39E+08	3.26 Y	1.19	1.21	1.3%	
ES PCB-3	14.36	2.19E+08	3.37 Y	1.09	1.10	1.5%	
ES PCB-4	14.61	1.04E+08	1.62 Y	0.52	0.53	0.5%	
ES PCB-15	20.38	2.08E+08	1.56 Y	1.04	1.05	0.9%	
ES PCB-19	17.73	1.01E+08	1.08 Y	0.51	0.51	0.4%	
ES PCB-37	26.74	1.56E+08	1.09 Y	1.66	1.68	1.0%	
ES PCB-54	20.66	8.13E+07	0.82 Y	0.86	0.88	1.7%	
ES PCB-77	33.09	1.31E+08	0.80 Y	1.38	1.42	2.5%	
ES PCB-81	32.61	1.27E+08	0.80 Y	1.37	1.36	-0.2%	
ES PCB-104	25.67	7.00E+07	1.67 Y	0.80	0.82	2.2%	
ES PCB-105	36.08	1.06E+08	1.61 Y	1.20	1.25	3.7%	
ES PCB-114	35.54	1.07E+08	1.65 Y	1.22	1.26	3.3%	
ES PCB-118	35.07	1.01E+08	1.61 Y	1.16	1.19	2.4%	
ES PCB-123	34.79	1.02E+08	1.58 Y	1.19	1.20	1.1%	
ES PCB-126	38.70	9.09E+07	1.58 Y	1.03	1.07	3.7%	
ES PCB-153	36.66	6.37E+07	1.31 Y	1.11	1.13	1.3%	
ES PCB-155	30.64	9.19E+07	1.33 Y	1.59	1.63	2.5%	
ES PCB-156/157	41.26	1.84E+08	1.30 Y	1.60	1.63	1.9%	
ES PCB-167	40.27	9.64E+07	1.30 Y	1.67	1.71	2.3%	
ES PCB-169	43.98	8.90E+07	1.30 Y	1.56	1.58	1.3%	
ES PCB-170	43.49	5.32E+07	1.08 Y	0.95	0.96	1.0%	
ES PCB-180	42.42	6.31E+07	1.09 Y	1.14	1.13	-0.4%	
ES PCB-188	35.54	5.40E+07	1.06 Y	0.94	0.96	1.8%	
ES PCB-189	46.11	8.91E+07	1.03 Y	1.58	1.60	1.0%	
ES PCB-202	40.08	5.60E+07	0.94 Y	0.97	0.99	2.3%	
ES PCB-205	48.28	7.02E+07	0.89 Y	1.24	1.26	1.3%	
ES PCB-206	49.75	4.73E+07	0.81 Y	0.83	0.85	2.3%	
ES PCB-208	45.73	6.67E+07	0.80 Y	1.17	1.20	1.9%	
ES PCB-209	51.23	6.37E+07	1.19 Y	1.11	1.14	3.2%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.73E+08	1.09 Y	1.11	1.11	-0.2%	
SS PCB-111	33.11	1.05E+08	1.62 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	3.27E+07	1.12 Y	0.62	0.61	-2.3%	
CS PCB-28	23.16	1.73E+08	1.09 Y	1.85	1.86	0.9%	
CS PCB-111	33.11	1.05E+08	1.62 Y	1.22	1.23	1.1%	
CS PCB-178	38.10	3.27E+07	1.12 Y	0.58	0.58	-0.5%	
JS PCB-9	16.61	1.98E+08	1.57 Y	-	-	-	
JS PCB-52	24.79	9.28E+07	0.79 Y	-	-	-	
JS PCB-101	30.81	8.53E+07	1.59 Y	-	-	-	
JS PCB-138	37.73	5.64E+07	1.31 Y	-	-	-	
JS PCB-194	47.88	5.57E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-2 3-MoCB	14.18	1.07E+07	3.30 Y	1.03	0.98	-5.2%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-10 26'-DiCB	14.81	1.01E+07	1.59 Y	1.98	1.93	-2.5%	
PCB-9 25'-DiCB	16.63	9.38E+06	1.58 Y	0.95	0.90	-4.6%	
PCB-7 24'-DiCB	16.80	1.06E+07	1.65 Y	1.05	1.02	-2.9%	
PCB-6 23'-DiCB	17.03	9.98E+06	1.58 Y	1.00	0.96	-3.7%	
PCB-5 23'-DiCB	17.33	1.00E+07	1.62 Y	1.00	0.96	-3.7%	
PCB-8 24'-DiCB	17.45	1.05E+07	1.60 Y	1.03	1.00	-2.7%	
PCB-14 35'-DiCB	19.02	1.19E+07	1.61 Y	1.18	1.15	-2.9%	
PCB-11 33'-DiCB	19.81	1.03E+07	1.64 Y	1.01	0.99	-1.9%	
PCB-13/12 34'/34'-DiCB	20.11	2.02E+07	1.61 Y	0.99	0.97	-1.7%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-30/18 246/22'5'-TrCB	19.52	1.52E+07	1.08 Y	1.54	1.51	-1.8%	
PCB-17 22'4'-TrCB	19.93	6.40E+06	1.08 Y	1.31	1.27	-2.7%	
PCB-27 23'6'-TrCB	20.12	8.92E+06	1.07 Y	1.82	1.77	-2.6%	
PCB-24 236'-TrCB	20.26	8.42E+06	1.05 Y	1.72	1.67	-3.0%	
PCB-16 22'3'-TrCB	20.35	5.03E+06	1.05 Y	1.01	1.00	-0.7%	
PCB-32 24'6'-TrCB	20.84	9.31E+06	1.07 Y	1.92	1.85	-3.7%	
PCB-34 23'5'-TrCB	21.99	8.68E+06	0.97 Y	1.14	1.11	-1.9%	
PCB-23 235'-TrCB	22.14	8.57E+06	1.00 Y	1.16	1.10	-4.7%	
PCB-26/29 23'5'/245'-TrCB	22.43	1.76E+07	0.99 Y	1.17	1.13	-3.4%	
PCB-25 23'4'-TrCB	22.63	8.79E+06	0.95 Y	1.16	1.13	-2.4%	
PCB-31 24'5'-TrCB	22.91	9.29E+06	0.97 Y	1.23	1.19	-2.7%	
PCB-28/20 244'/233'-TrCB	23.19	1.69E+07	1.00 Y	1.13	1.08	-4.3%	
PCB-21/33 234'/23'4'-TrCB	23.38	1.76E+07	0.99 Y	1.17	1.13	-3.7%	
PCB-22 234'-TrCB	23.75	8.06E+06	1.00 Y	1.08	1.04	-4.1%	
PCB-36 33'5'-TrCB	25.14	8.80E+06	0.98 Y	1.17	1.13	-3.4%	
PCB-39 34'5'-TrCB	25.46	9.00E+06	0.97 Y	1.21	1.16	-4.5%	
PCB-38 345'-TrCB	26.00	8.25E+06	0.97 Y	1.10	1.06	-4.0%	
PCB-35 33'4'-TrCB	26.39	7.78E+06	1.00 Y	1.04	1.00	-3.9%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.07E+07	0.80 Y	0.88	0.84	-3.9%	
PCB-45 22'36'-TeCB	23.27	4.46E+06	0.79 Y	0.77	0.70	-8.2%	
PCB-51 22'46'-TeCB	23.34	5.62E+06	0.80 Y	0.86	0.89	3.3%	
PCB-46 22'36'-TeCB	23.55	4.33E+06	0.78 Y	0.70	0.68	-2.0%	
PCB-52 22'55'-TeCB	24.82	5.19E+06	0.79 Y	0.84	0.82	-2.8%	
PCB-73 23'5'6'-TeCB	24.94	6.70E+06	0.79 Y	1.11	1.06	-4.8%	
PCB-43 22'35'-TeCB	25.04	4.56E+06	0.75 Y	0.71	0.72	1.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	1.26E+07	0.79 Y	1.02	0.99	-2.8%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	5.24E+06	0.81 Y	0.84	0.83	-1.3%	
PCB-44/47/65 ...-TeCB	25.74	1.64E+07	0.78 Y	0.90	0.86	-4.4%	
PCB-59/62/75 ...-TeCB	26.02	2.14E+07	0.79 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.18	4.75E+06	0.78 Y	0.76	0.75	-1.7%	
PCB-41 22'34'-TeCB	26.52	4.38E+06	0.79 Y	0.69	0.69	-0.5%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.05E+07	0.81 Y	0.86	0.83	-3.8%	
PCB-64 234'6'-TeCB	26.81	7.49E+06	0.79 Y	1.22	1.18	-3.0%	
PCB-72 23'55'-TeCB	27.53	7.51E+06	0.80 Y	1.21	1.19	-1.9%	
PCB-68 23'45'-TeCB	27.79	7.85E+06	0.75 Y	1.28	1.24	-2.8%	
PCB-57 233'5'-TeCB	28.16	7.33E+06	0.77 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.37	7.30E+06	0.76 Y	1.18	1.15	-2.1%	
PCB-67 23'45'-TeCB	28.52	7.81E+06	0.77 Y	1.26	1.23	-2.0%	
PCB-63 234'5'-TeCB	28.75	7.85E+06	0.76 Y	1.30	1.24	-4.4%	
PCB-61/70/74/76 ...-TeCB	29.05	2.94E+07	0.79 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.33	6.87E+06	0.76 Y	1.10	1.09	-1.5%	
PCB-55 233'4'-TeCB	29.47	7.07E+06	0.79 Y	1.12	1.12	-0.3%	
PCB-56 233'4'-TeCB	29.91	6.96E+06	0.77 Y	1.11	1.10	-1.0%	
PCB-60 2344'-TeCB	30.11	7.00E+06	0.78 Y	1.14	1.11	-2.5%	
PCB-80 33'55'-TeCB	30.43	8.09E+06	0.80 Y	1.31	1.28	-2.7%	
PCB-79 33'45'-TeCB	31.76	8.10E+06	0.78 Y	1.31	1.28	-2.0%	
PCB-78 33'45'-TeCB	32.25	6.61E+06	0.79 Y	1.06	1.04	-1.6%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-96 22'366'-PeCB	26.01	4.21E+06	0.65 Y	1.23	1.20	-2.0%	
PCB-103 22'45'6'-PeCB	27.71	4.65E+06	0.62 Y	0.93	0.91	-2.2%	
PCB-94 22'356'-PeCB	27.90	4.04E+06	0.63 Y	0.80	0.79	-1.3%	
PCB-95 22'35'6'-PeCB	28.28	4.36E+06	0.62 Y	0.87	0.85	-1.5%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	8.64E+06	0.63 Y	0.86	0.85	-2.1%	
PCB-102 22'456'-PeCB	28.61	5.08E+06	0.63 Y	0.97	0.99	2.6%	
PCB-98 22'34'6'-PeCB	28.68	3.64E+06	0.64 Y	0.76	0.71	-6.0%	
PCB-88 22'346'-PeCB	28.98	3.75E+06	0.65 Y	0.80	0.73	-8.2%	
PCB-91 22'34'6'-PeCB	29.04	4.80E+06	0.63 Y	0.94	0.94	-0.5%	
PCB-84 22'33'6'-PeCB	29.24	3.58E+06	0.61 Y	0.72	0.70	-2.1%	
PCB-89 22'346'-PeCB	29.66	3.81E+06	0.62 Y	0.76	0.75	-2.3%	
PCB-121 23'45'6'-PeCB	30.00	5.96E+06	0.63 Y	1.20	1.16	-2.9%	
PCB-92 22'355'-PeCB	30.32	4.05E+06	0.62 Y	0.82	0.79	-3.5%	
PCB-113/90/101 ...-PeCB	30.81	1.47E+07	0.63 Y	0.99	0.96	-2.5%	
PCB-83 22'33'5'-PeCB	31.25	3.64E+06	0.59 Y	0.71	0.71	-0.4%	
PCB-99 22'44'5'-PeCB	31.34	4.49E+06	0.64 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.44	5.95E+06	0.63 Y	1.17	1.16	-0.4%	
PCB-108/119/86/97/125...-PeCB	31.79	2.92E+07	0.62 Y	0.98	0.95	-2.9%	
PCB-117 234'56'-PeCB	32.33	5.88E+06	0.62 Y	1.14	1.15	1.1%	
PCB-116/85 23456/22'344'-PeCB	32.42	9.01E+06	0.64 Y	0.94	0.88	-6.3%	
PCB-110 233'4'6'-PeCB	32.53	5.43E+06	0.63 Y	1.12	1.06	-5.0%	

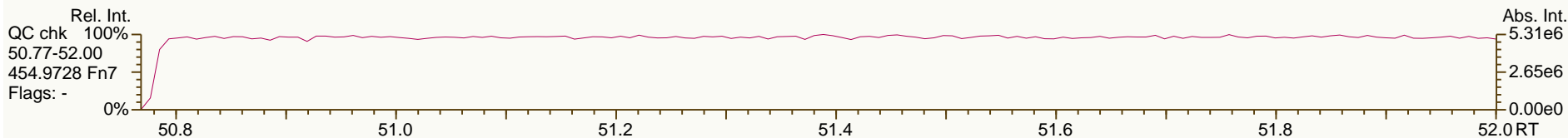
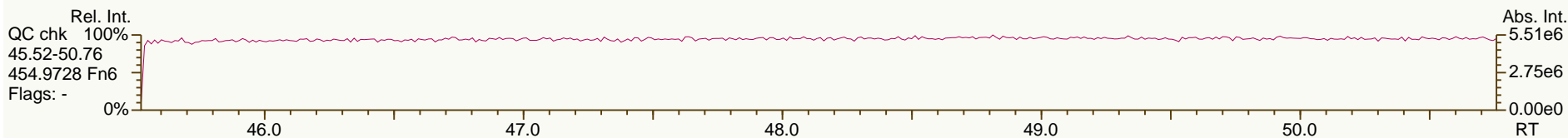
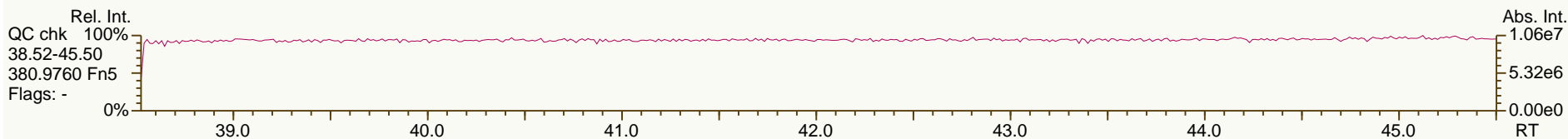
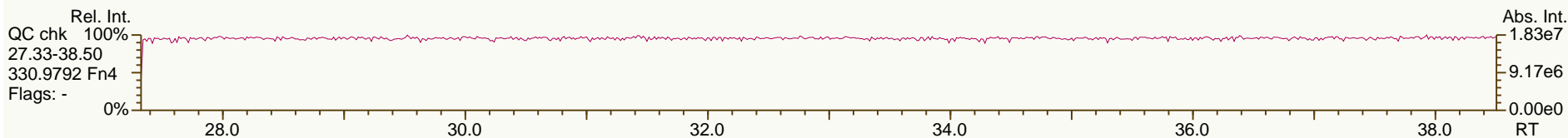
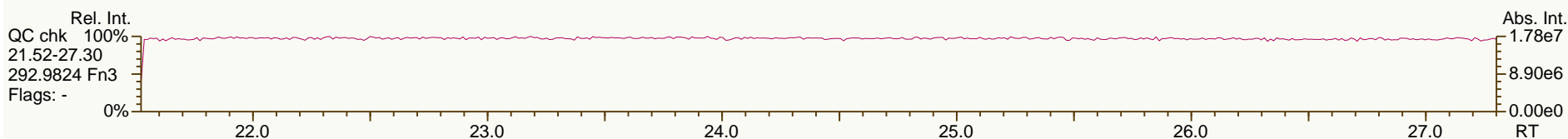
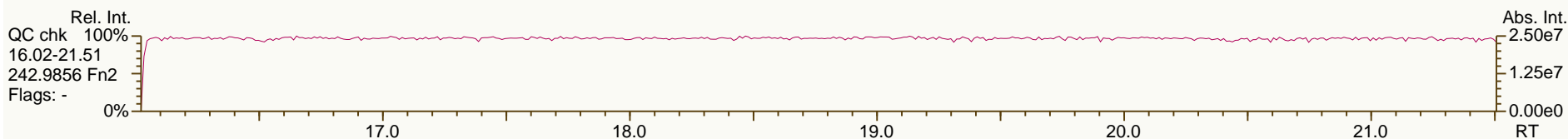
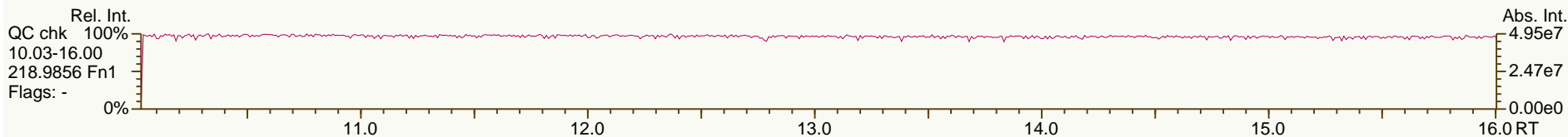
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.94E+06	0.60 Y	1.16	1.16	0.3%	
PCB-82 22'33'4-PeCB	32.82	3.45E+06	0.62 Y	0.70	0.67	-3.3%	
PCB-111 233'55'-PeCB	33.13	6.10E+06	0.63 Y	1.22	1.19	-2.3%	
PCB-120 23'455'-PeCB	33.53	6.04E+06	0.64 Y	1.21	1.18	-2.5%	
PCB-107/124 ...-PeCB	34.50	1.09E+07	0.62 Y	1.10	1.07	-2.9%	
PCB-109 233'46-PeCB	34.71	6.46E+06	0.62 Y	1.25	1.26	0.8%	
PCB-106 233'45-PeCB	34.93	5.32E+06	0.64 Y	1.11	1.04	-5.8%	
PCB-122 233'4'5'-PeCB	35.39	5.09E+06	0.64 Y	0.99	0.95	-4.5%	
PCB-127 33'455'-PeCB	37.34	5.46E+06	0.62 Y	1.10	1.03	-6.2%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-152 22'3566'-HxCB	30.82	5.18E+06	1.28 Y	1.17	1.13	-3.8%	
PCB-150 22'34'66'-HxCB	30.97	5.27E+06	1.27 Y	1.18	1.15	-2.5%	
PCB-136 22'33'66'-HxCB	31.27	4.80E+06	1.26 Y	1.07	1.04	-2.1%	
PCB-145 22'3466'-HxCB	31.55	4.89E+06	1.31 Y	1.11	1.06	-4.5%	
PCB-148 22'34'56'-HxCB	32.82	3.69E+06	1.28 Y	1.18	1.16	-2.2%	
PCB-151/135 ...-HxCB	33.34	7.14E+06	1.23 Y	1.14	1.12	-1.6%	
PCB-154 22'44'56'-HxCB	33.55	4.14E+06	1.24 Y	1.34	1.30	-3.2%	
PCB-144 22'345'6'-HxCB	33.82	3.74E+06	1.28 Y	1.18	1.17	-0.8%	
PCB-147/149 ...-HxCB	34.12	7.38E+06	1.29 Y	1.18	1.16	-1.6%	
PCB-134 22'33'56-HxCB	34.29	2.81E+06	1.29 Y	0.92	0.88	-4.5%	
PCB-143 22'3456'-HxCB	34.38	3.63E+06	1.26 Y	1.13	1.14	0.8%	
PCB-139/140 ...-HxCB	34.64	7.45E+06	1.28 Y	1.21	1.17	-3.0%	
PCB-131 22'33'46-HxCB	34.82	3.13E+06	1.29 Y	1.03	0.98	-4.2%	
PCB-142 22'3456-HxCB	34.96	3.09E+06	1.24 Y	0.99	0.97	-1.9%	
PCB-132 22'33'46'-HxCB	35.20	3.22E+06	1.28 Y	1.03	1.01	-2.1%	
PCB-133 22'33'55'-HxCB	35.60	3.47E+06	1.26 Y	1.13	1.09	-3.9%	
PCB-165 233'55'6-HxCB	35.94	4.45E+06	1.24 Y	1.41	1.40	-0.9%	
PCB-146 22'34'55'-HxCB	36.16	3.72E+06	1.30 Y	1.20	1.17	-2.9%	
PCB-161 233'45'6-HxCB	36.28	4.78E+06	1.30 Y	1.52	1.50	-1.4%	
PCB-153/168 ...-HxCB	36.71	9.14E+06	1.28 Y	1.46	1.43	-1.6%	
PCB-141 22'3455'-HxCB	36.85	3.40E+06	1.30 Y	1.09	1.07	-2.0%	
PCB-130 22'33'45'-HxCB	37.20	3.05E+06	1.25 Y	0.97	0.96	-1.7%	
PCB-137 22'344'5-HxCB	37.40	3.51E+06	1.28 Y	1.16	1.10	-5.3%	
PCB-164 233'4'5'6-HxCB	37.48	4.84E+06	1.28 Y	1.50	1.52	1.3%	
PCB-163/138/129 ...-HxCB	37.77	1.09E+07	1.27 Y	1.19	1.14	-3.9%	
PCB-160 233'456-HxCB	37.91	4.74E+06	1.26 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.09	5.15E+06	1.28 Y	1.66	1.62	-2.7%	
PCB-128/166 ...-HxCB	38.83	8.23E+06	1.25 Y	0.90	0.85	-5.1%	
PCB-159 233'455'-HxCB	39.64	5.14E+06	1.24 Y	1.11	1.07	-4.4%	
PCB-162 233'4'55'-HxCB	39.88	4.97E+06	1.21 Y	1.07	1.03	-3.7%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-179 22'33'566'-HpCB	35.84	3.06E+06	1.09 Y	1.16	1.13	-2.3%	
PCB-184 22'344'66'-HpCB	36.30	2.96E+06	1.03 Y	1.13	1.10	-2.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.29E+06	1.07 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.00	2.98E+06	1.06 Y	1.13	1.10	-1.9%	
PCB-178 22'33'55'6'-HpCB	38.13	2.21E+06	1.08 Y	0.84	0.82	-2.7%	
PCB-175 22'33'45'6'-HpCB	38.67	3.31E+06	1.06 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.90	3.49E+06	0.96 Y	1.14	1.11	-2.9%	
PCB-182 22'344'56'-HpCB	39.08	3.67E+06	1.07 Y	1.18	1.16	-1.0%	
PCB-183 22'344'5'6'-HpCB	39.43	3.83E+06	1.05 Y	1.20	1.21	0.7%	
PCB-185 22'3455'6'-HpCB	39.52	3.13E+06	1.08 Y	1.06	0.99	-6.4%	
PCB-174 22'33'456'-HpCB	39.62	3.03E+06	1.07 Y	0.99	0.96	-2.8%	
PCB-177 22'33'45'6'-HpCB	40.00	2.93E+06	1.10 Y	0.95	0.93	-2.3%	
PCB-181 22'344'56'-HpCB	40.35	3.27E+06	1.08 Y	1.09	1.04	-4.9%	
PCB-171/173 ...-HpCB	40.53	5.79E+06	1.06 Y	0.95	0.92	-3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.98E+06	1.07 Y	0.99	0.95	-4.3%	
PCB-192 233'455'6'-HpCB	42.13	4.03E+06	1.06 Y	1.29	1.28	-0.7%	
PCB-180/193 ...-HpCB	42.41	7.75E+06	1.08 Y	1.26	1.23	-2.6%	
PCB-191 233'44'5'6'-HpCB	42.74	4.20E+06	1.05 Y	1.40	1.33	-4.6%	
PCB-170 22'33'44'5'-HpCB	43.51	2.91E+06	1.04 Y	1.14	1.09	-3.7%	
PCB-190 233'44'56'-HpCB	43.97	4.21E+06	1.06 Y	1.66	1.58	-4.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-201 22'33'45'66'-OcCB	40.89	3.33E+06	0.92 Y	1.22	1.19	-2.7%	
PCB-204 22'344'566'-OcCB	41.47	3.01E+06	0.94 Y	1.12	1.08	-3.6%	
PCB-197 22'33'44'66'-OcCB	41.66	3.09E+06	0.91 Y	1.19	1.11	-7.1%	
PCB-200 22'33'4566'-OcCB	41.75	3.13E+06	0.89 Y	1.11	1.12	1.0%	
PCB-198/199 ...-OcCB	44.08	4.38E+06	0.92 Y	0.81	0.78	-3.4%	
PCB-196 22'33'44'56'-OcCB	44.66	2.29E+06	0.94 Y	0.83	0.82	-1.8%	
PCB-203 22'344'55'6'-OcCB	44.83	2.39E+06	0.93 Y	0.87	0.85	-2.2%	
PCB-195 22'33'44'56'-OcCB	45.95	2.57E+06	0.90 Y	0.77	0.73	-4.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.84E+06	0.87 Y	0.84	0.81	-4.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-207 22'33'44'566'-NoCB	46.54	3.79E+06	0.76 Y	1.19	1.14	-4.4%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

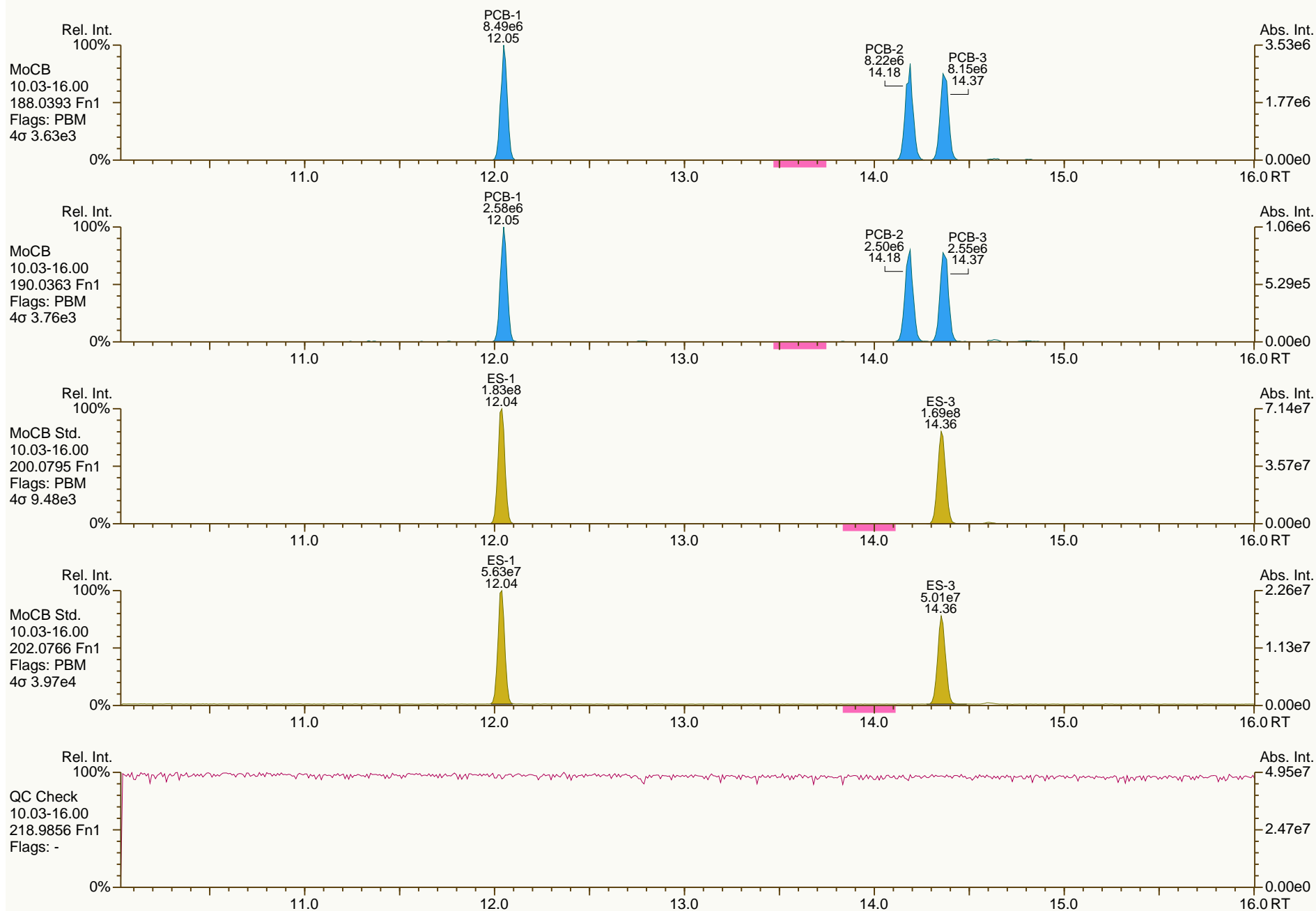
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

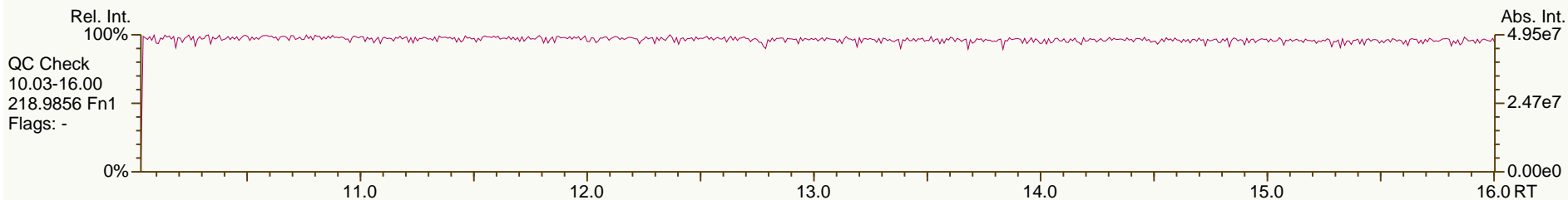
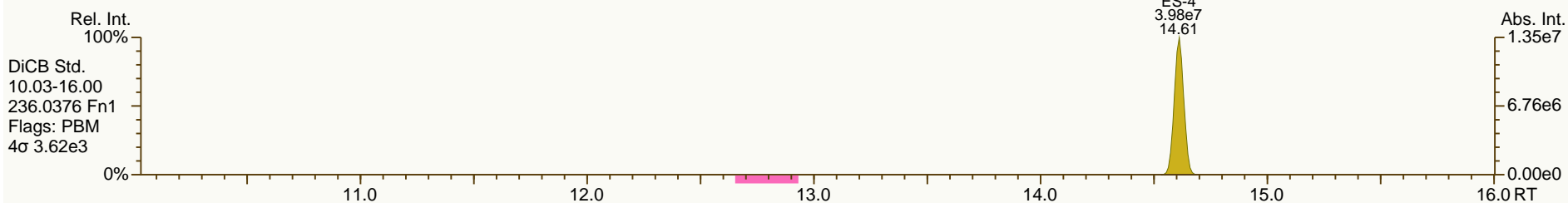
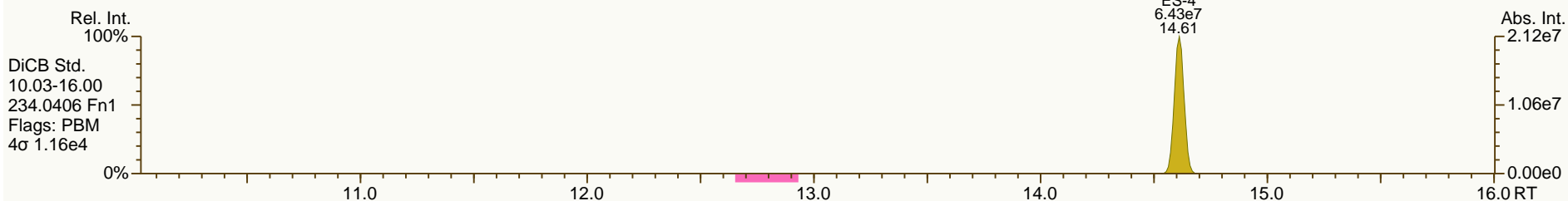
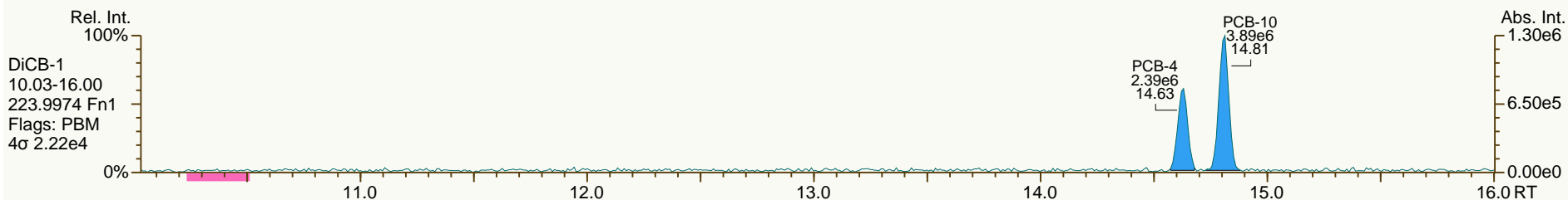
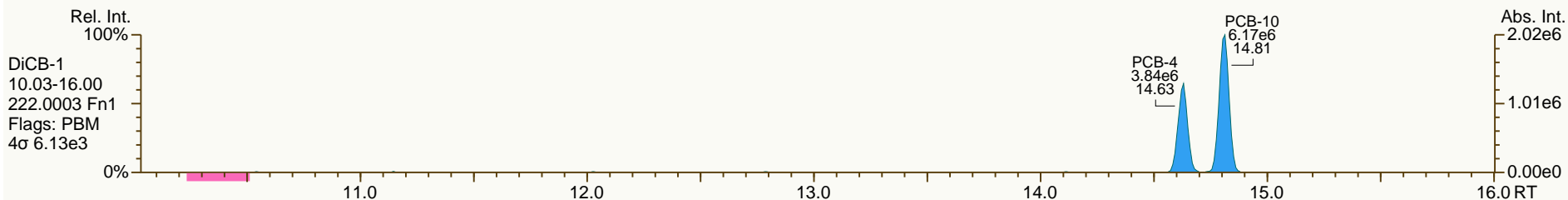
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

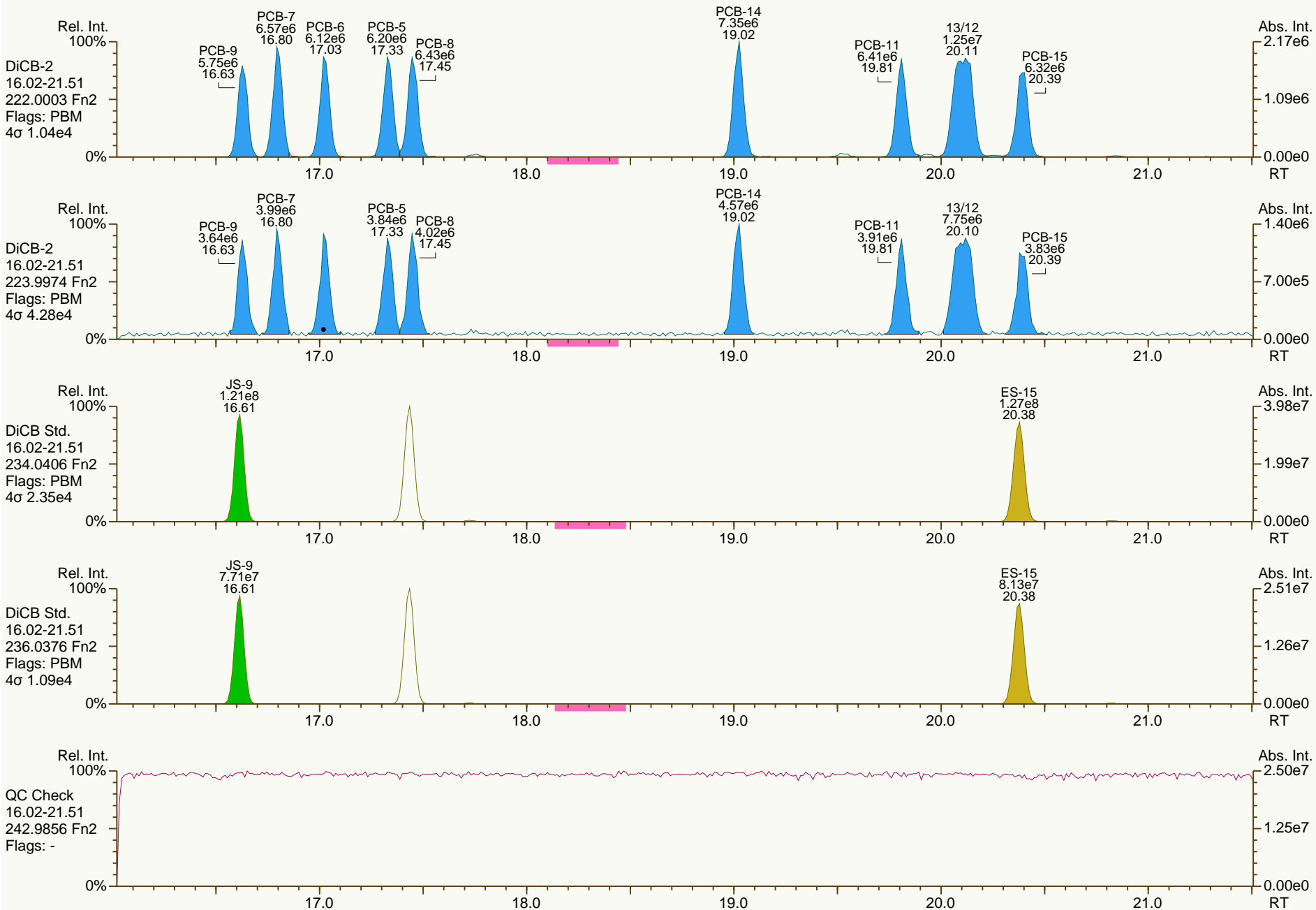
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

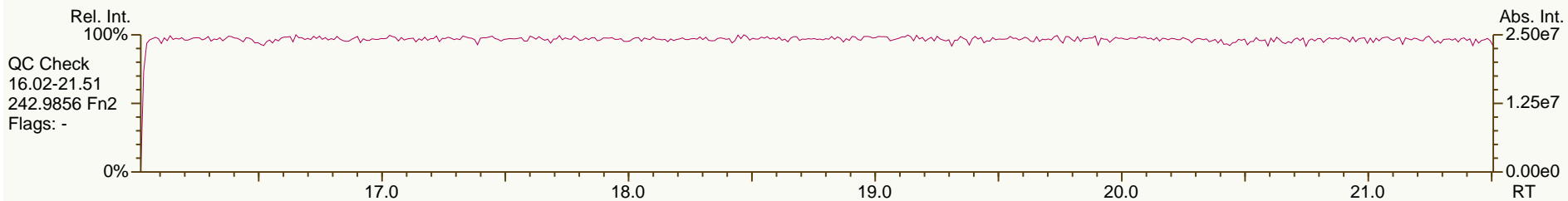
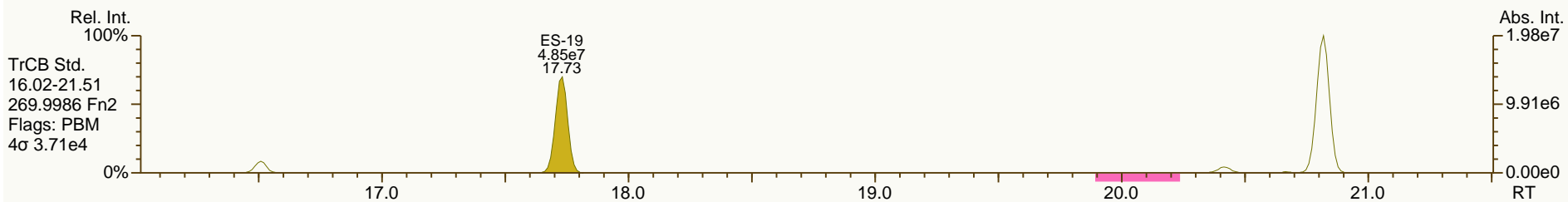
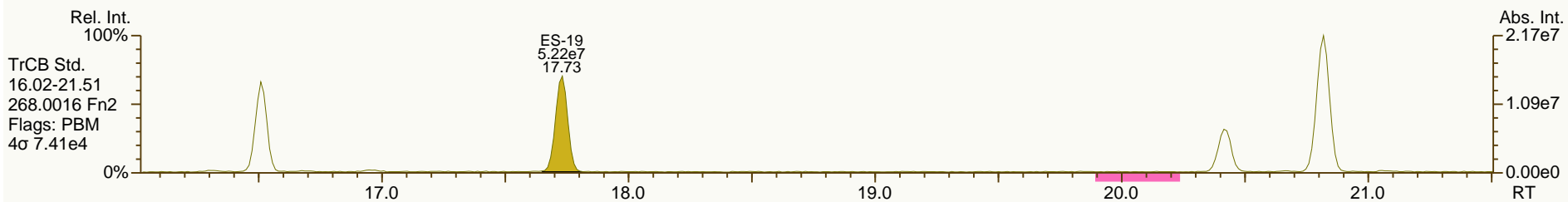
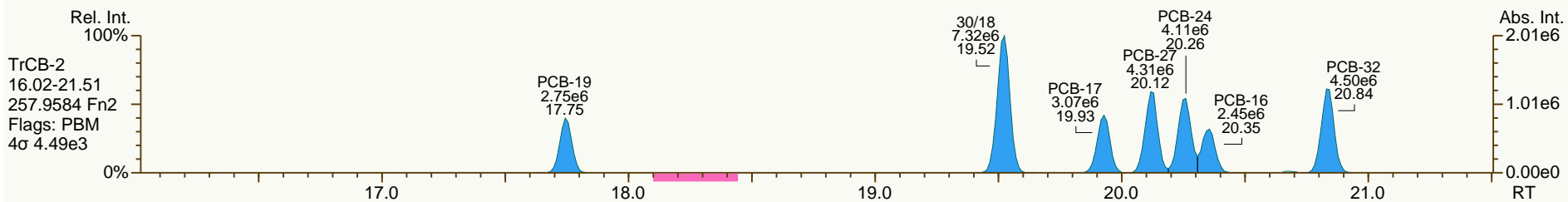
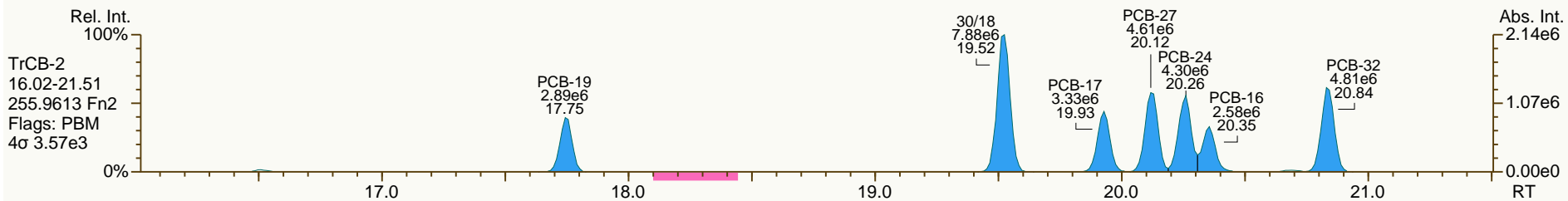
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
User: LKB Datafile: 131220X04





SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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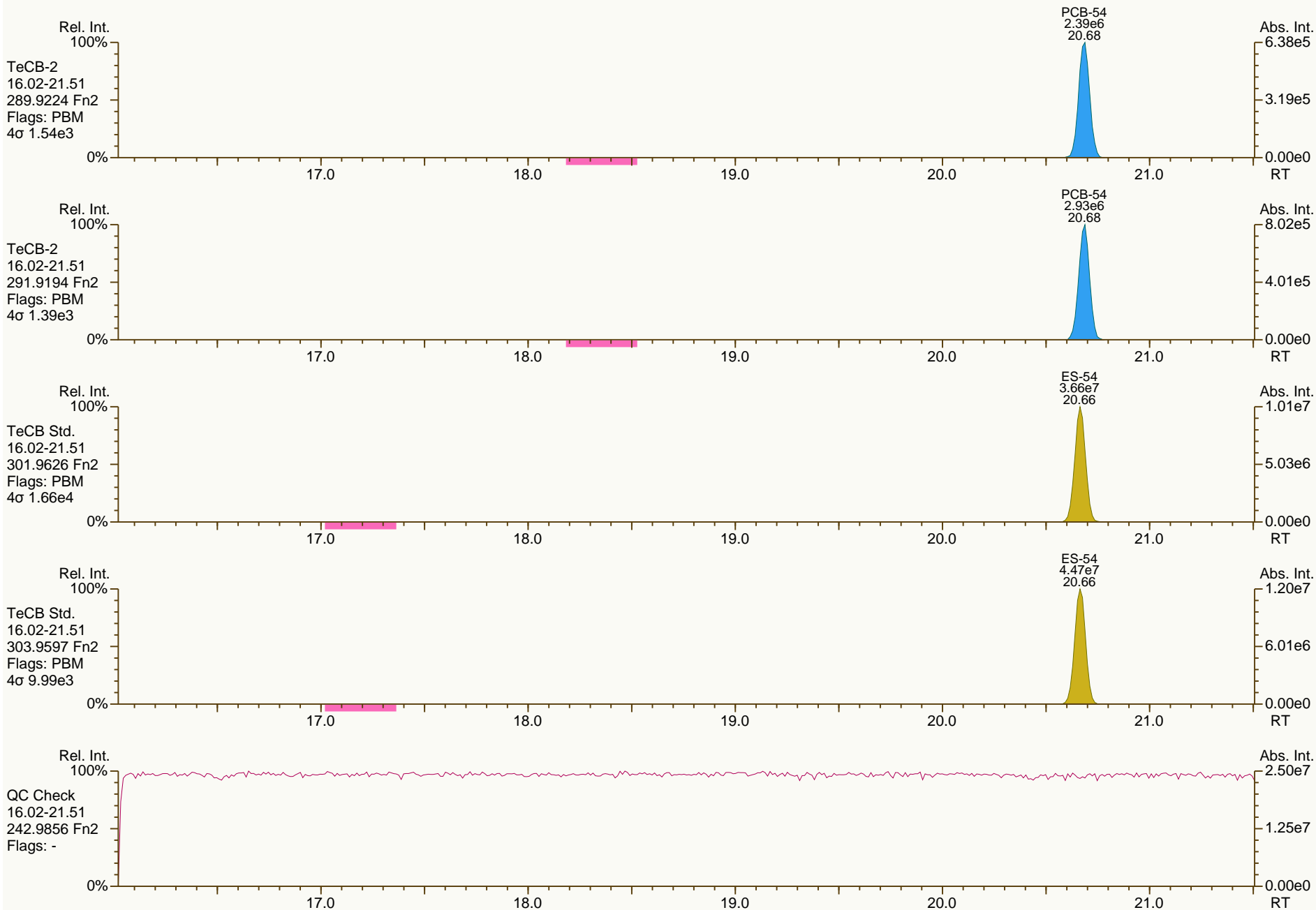
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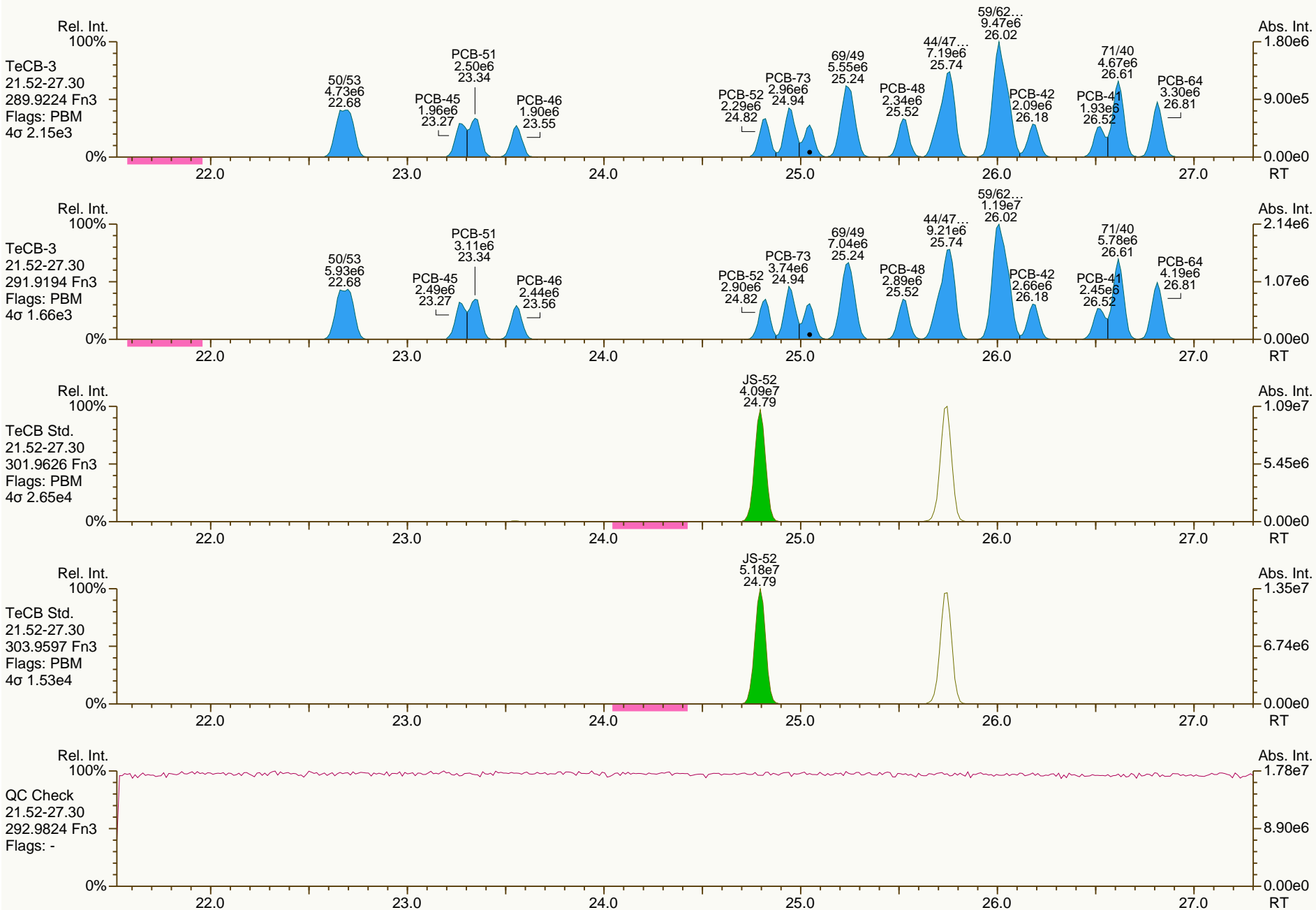
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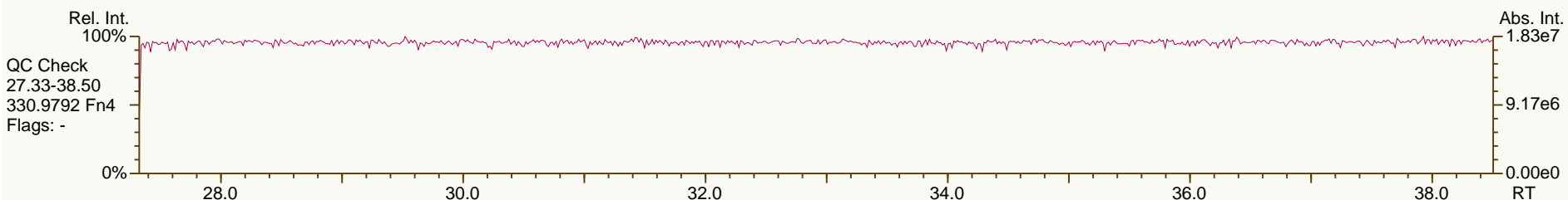
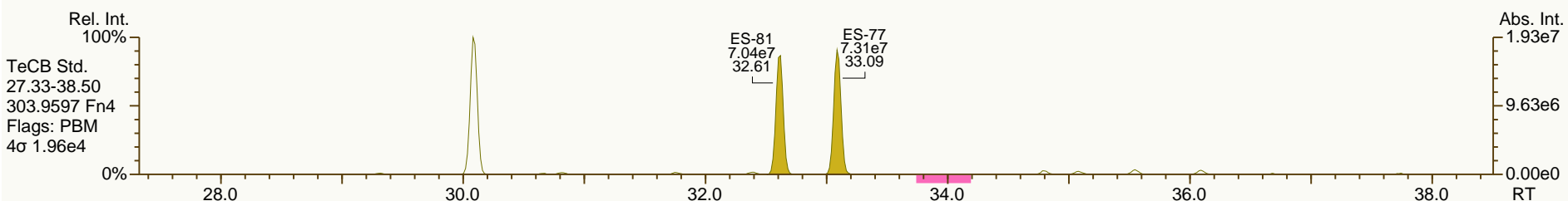
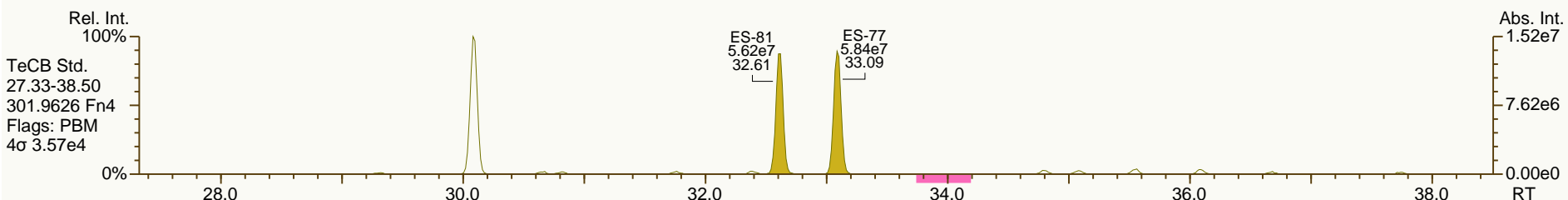
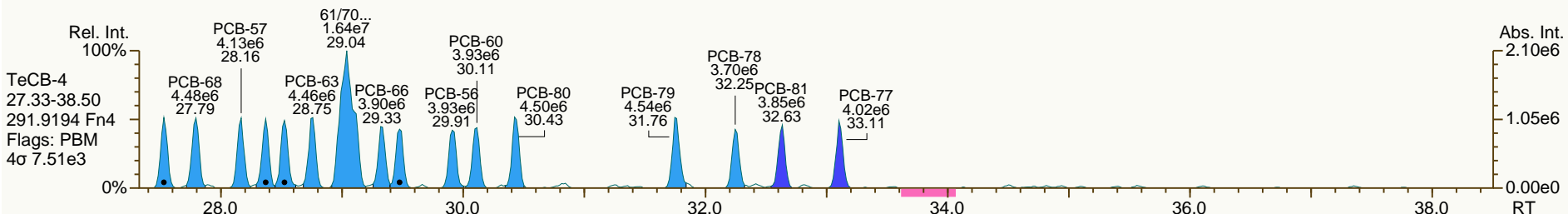
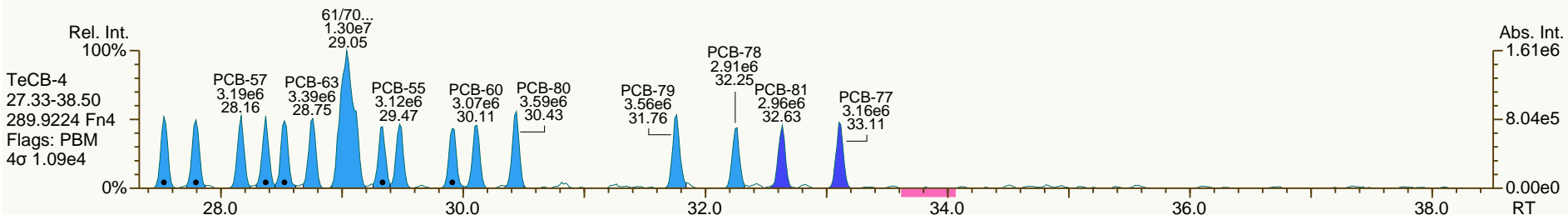
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-4  
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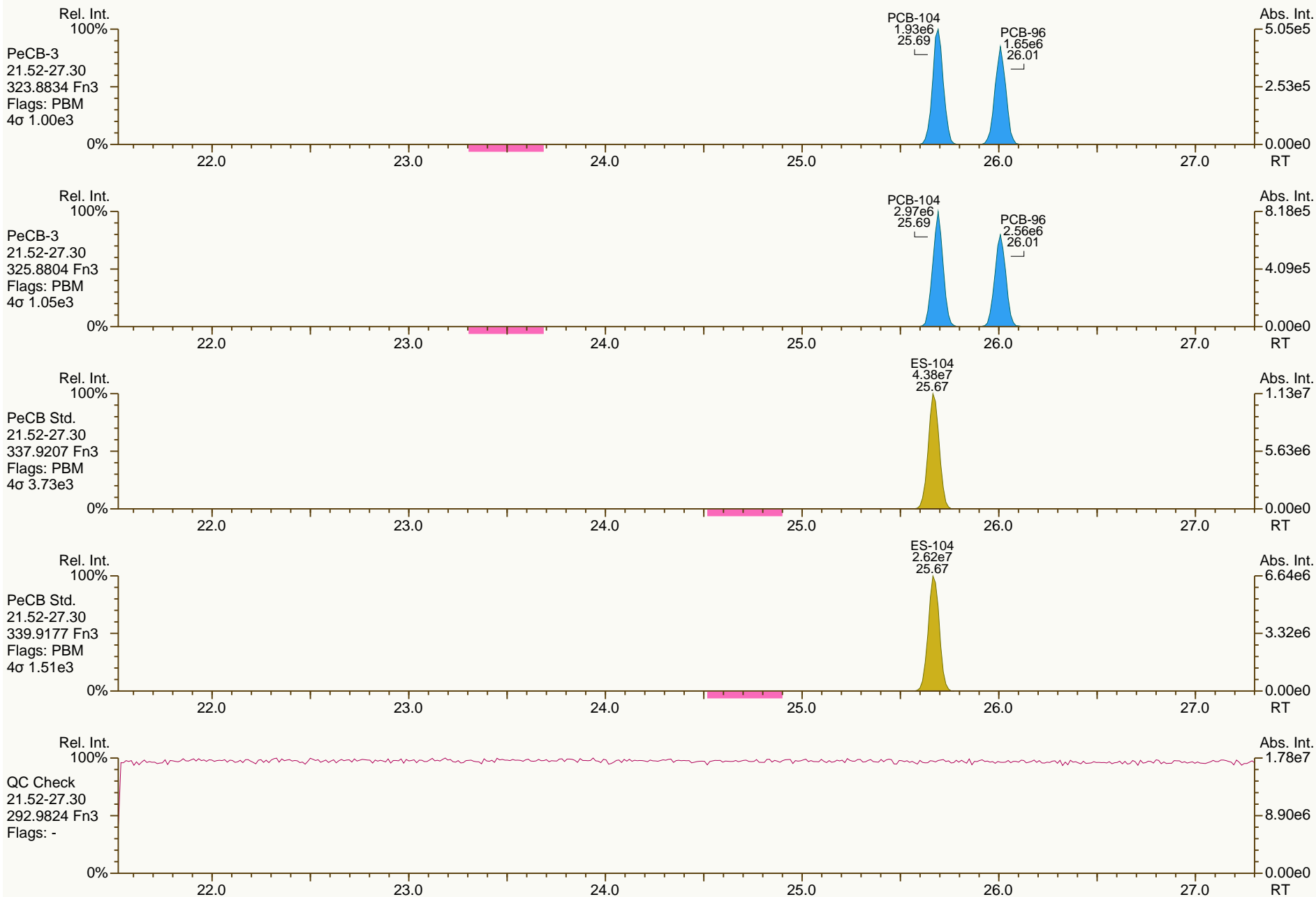
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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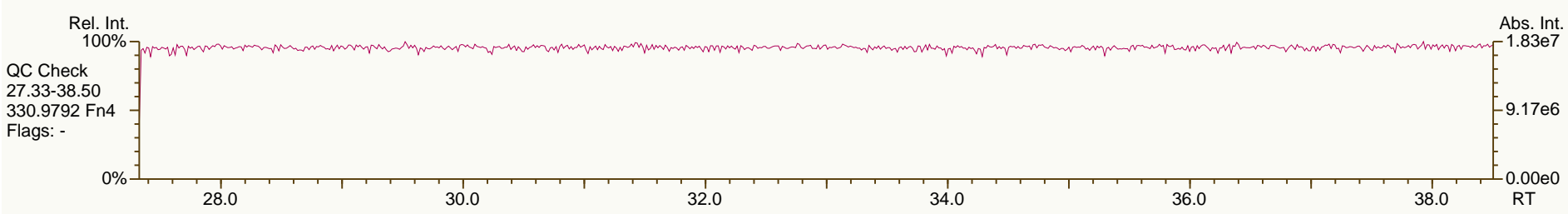
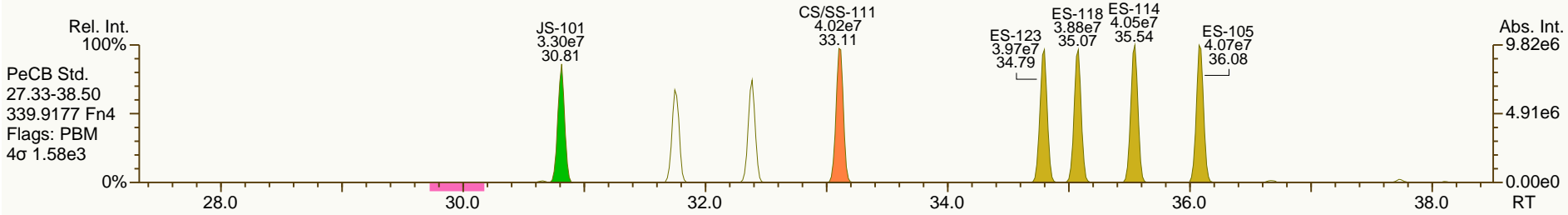
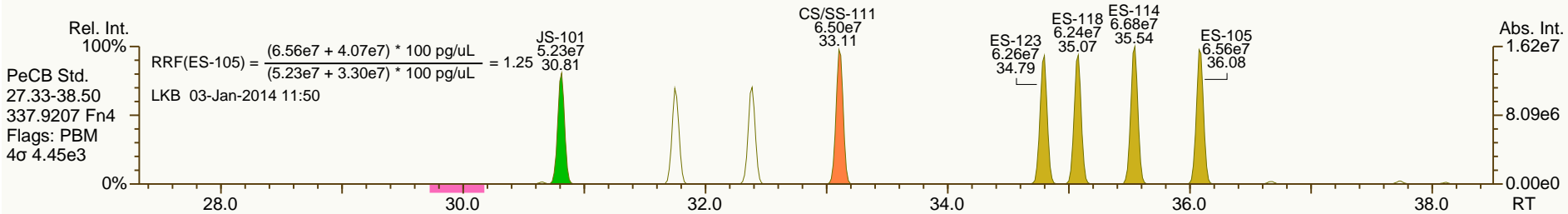
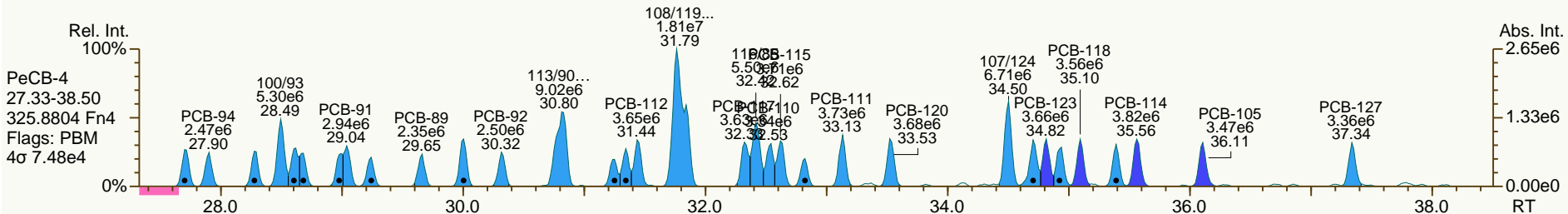
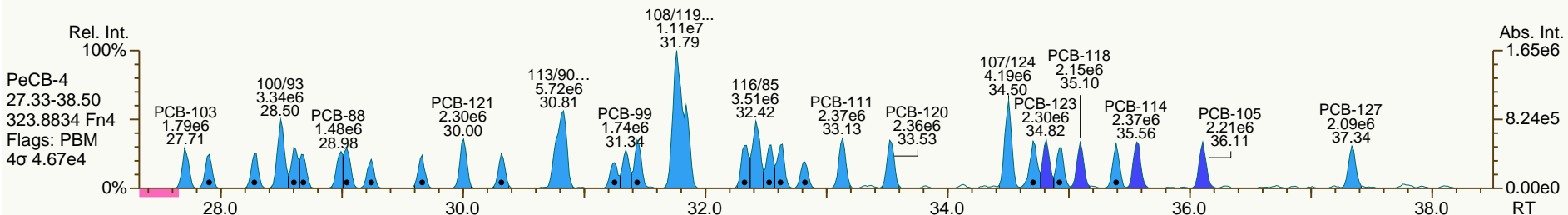
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

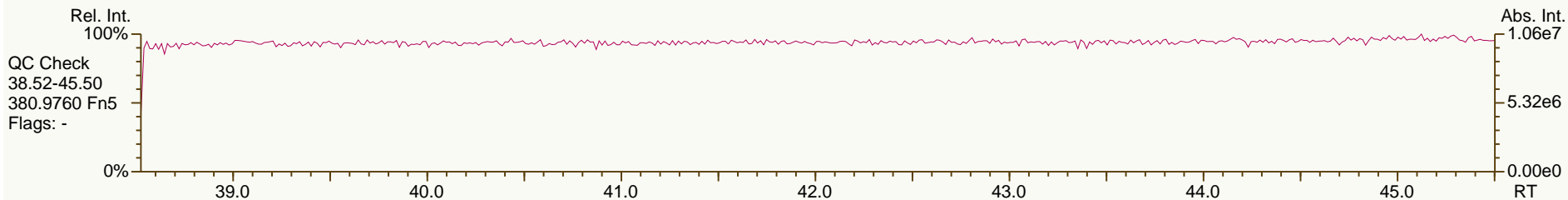
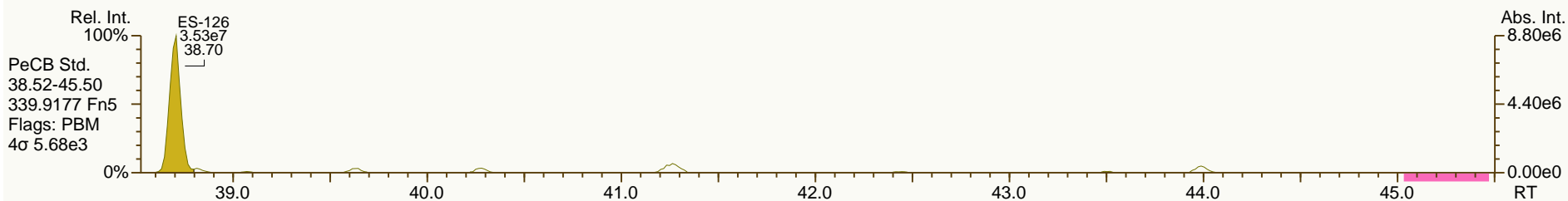
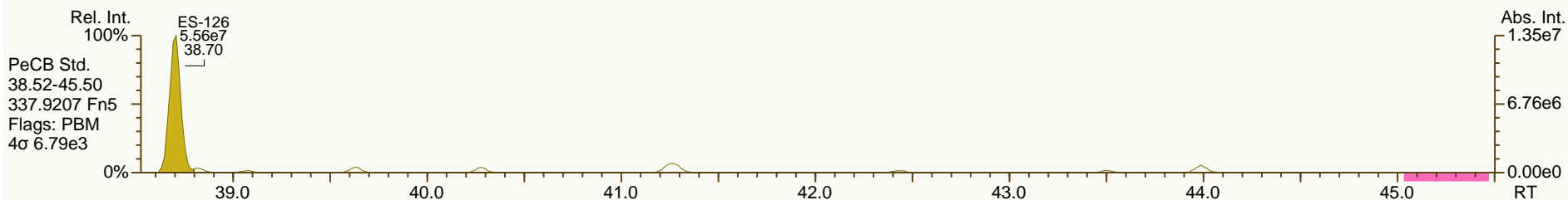
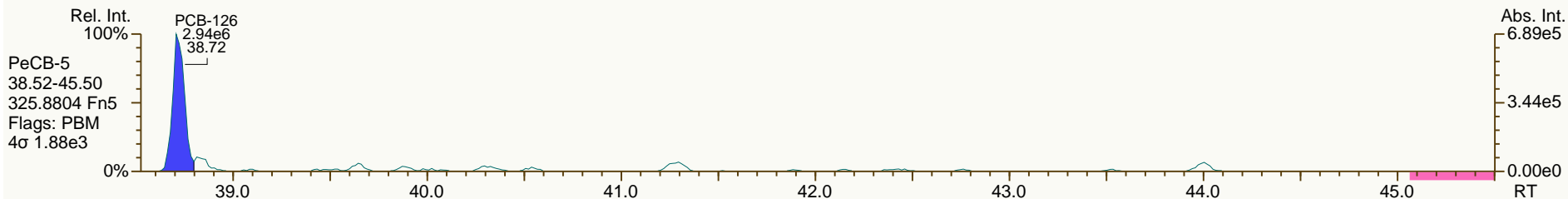
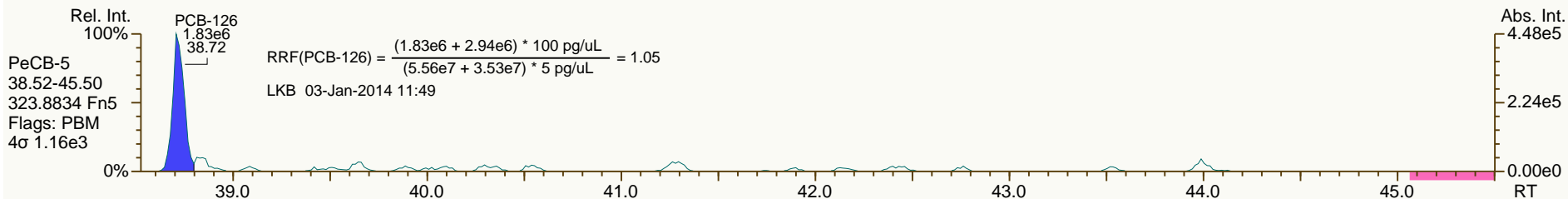
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

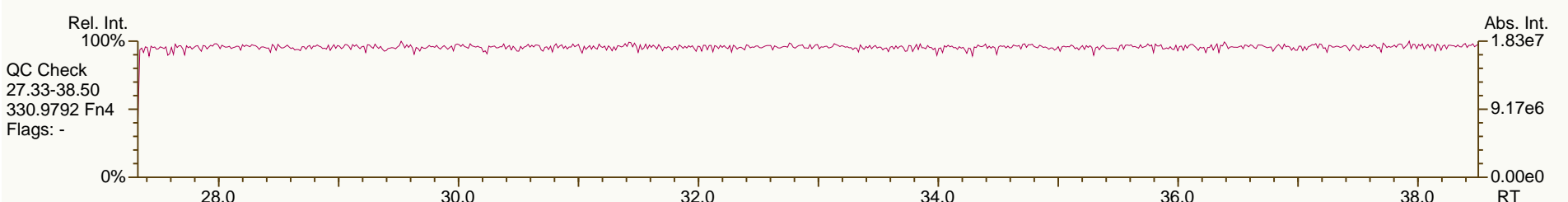
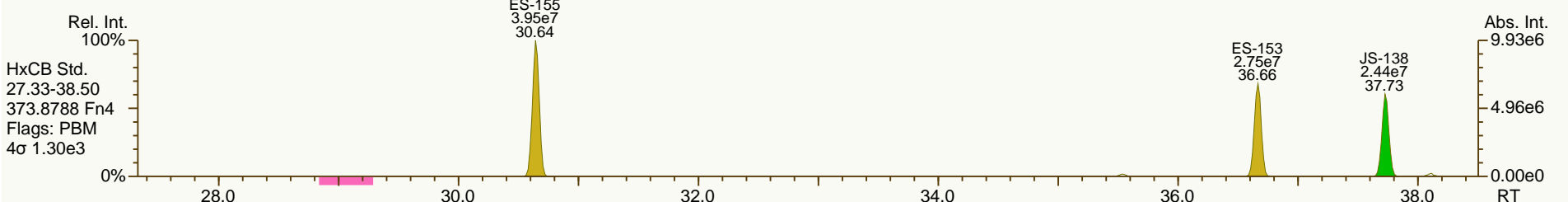
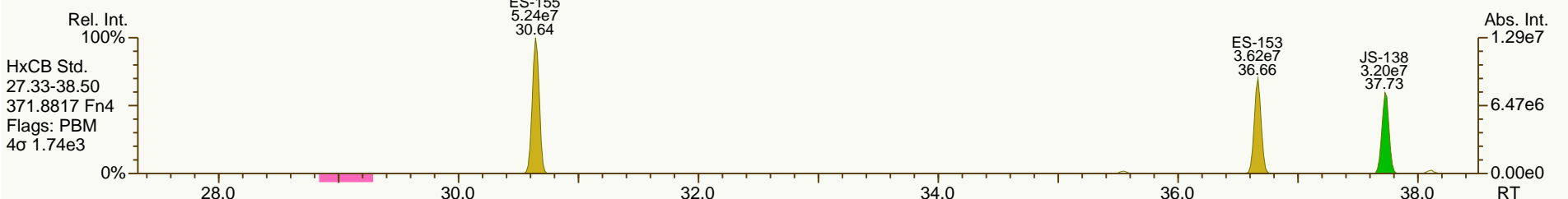
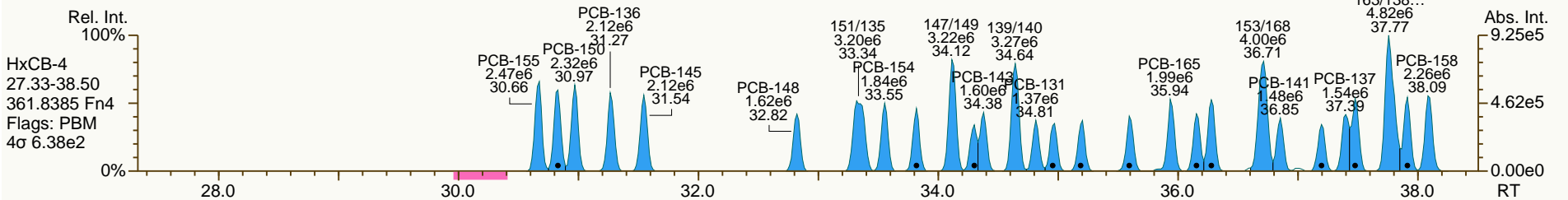
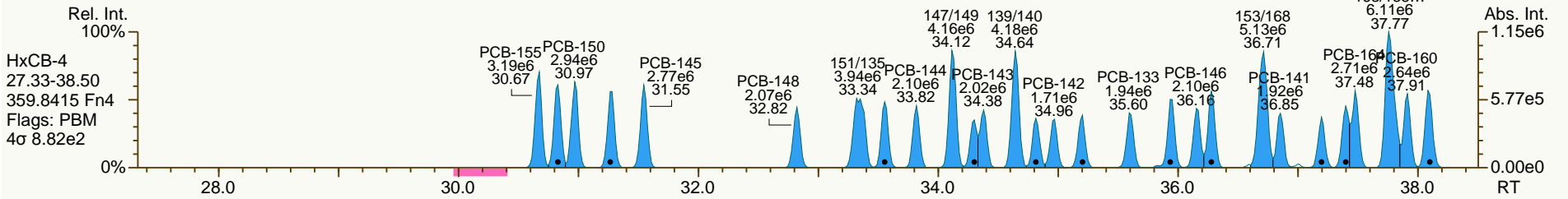
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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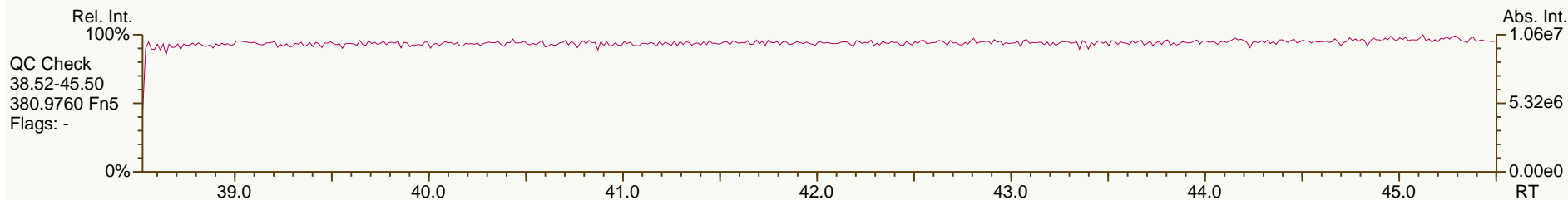
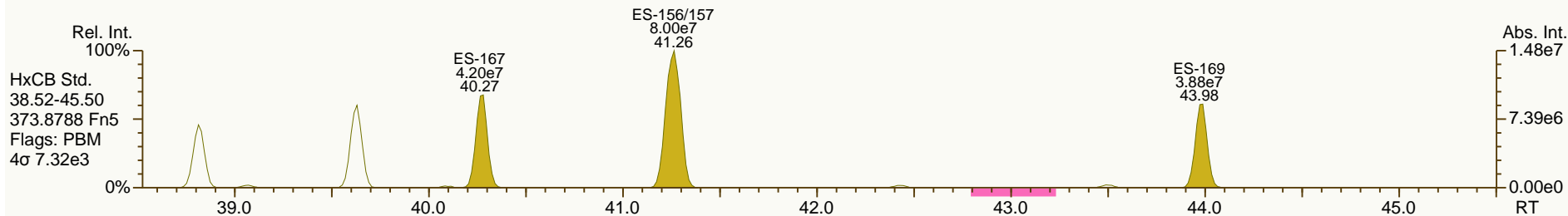
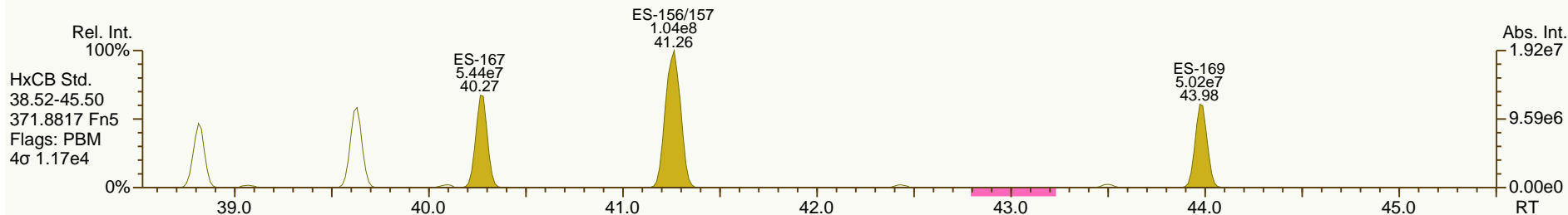
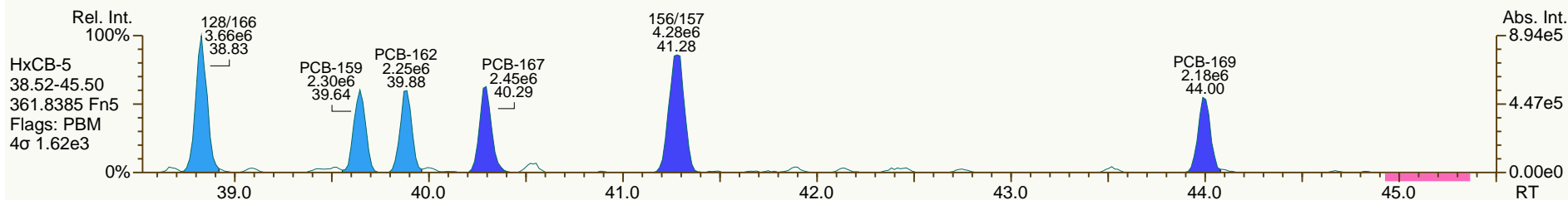
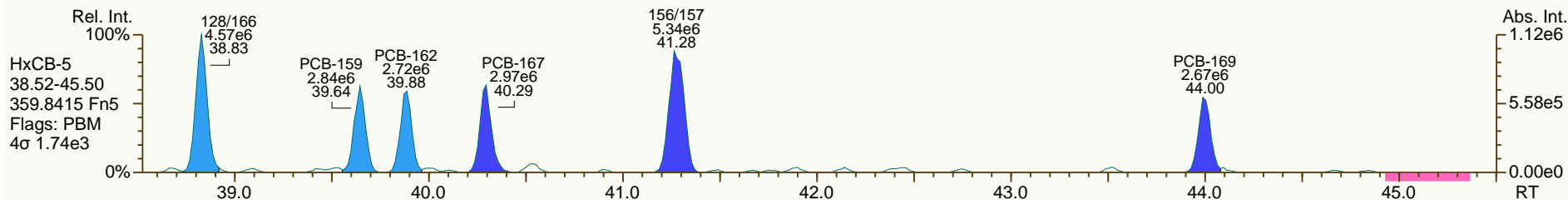




SGS-AP ID: CS2\_131220\_PCB\_XA  
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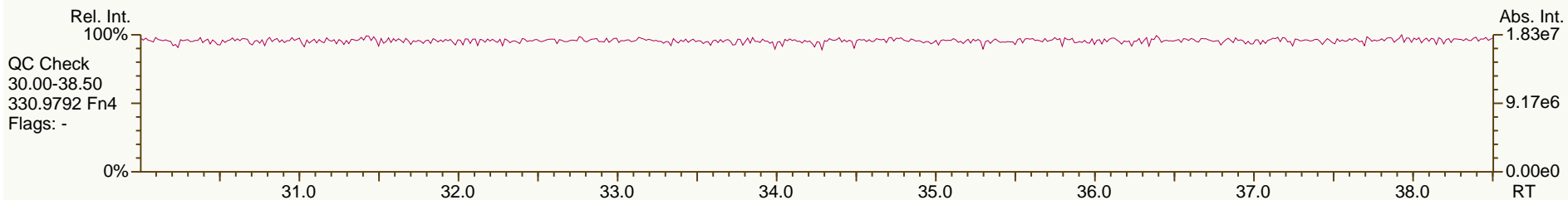
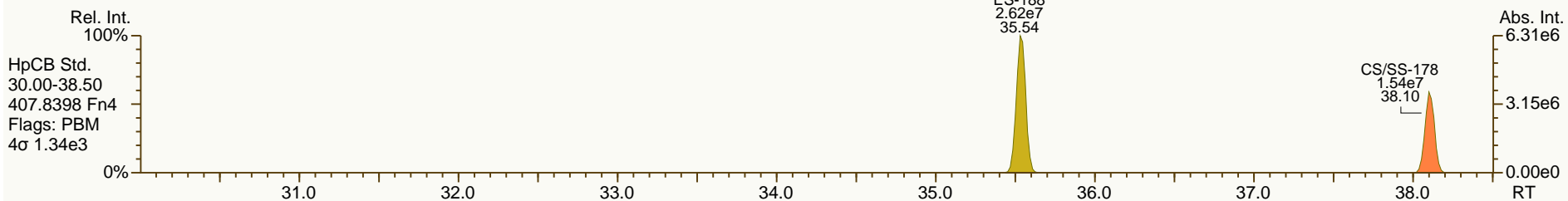
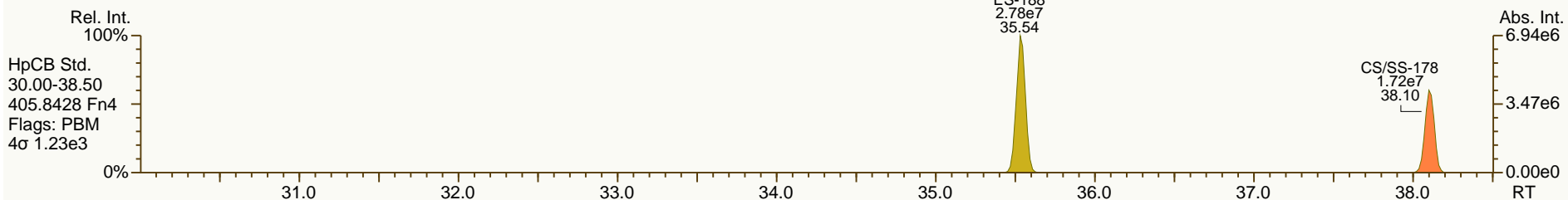
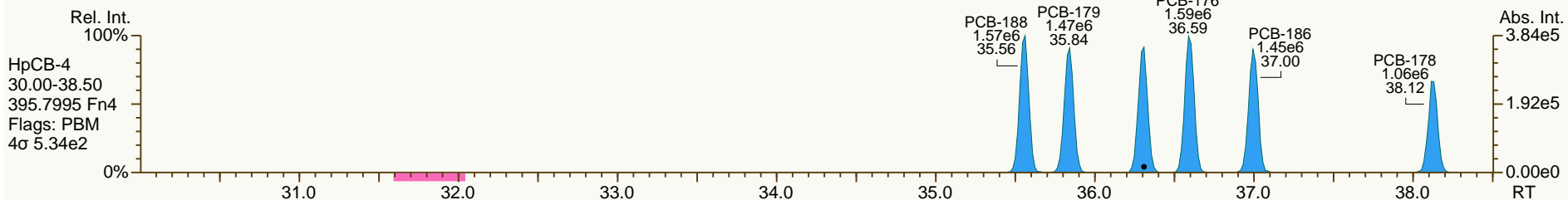
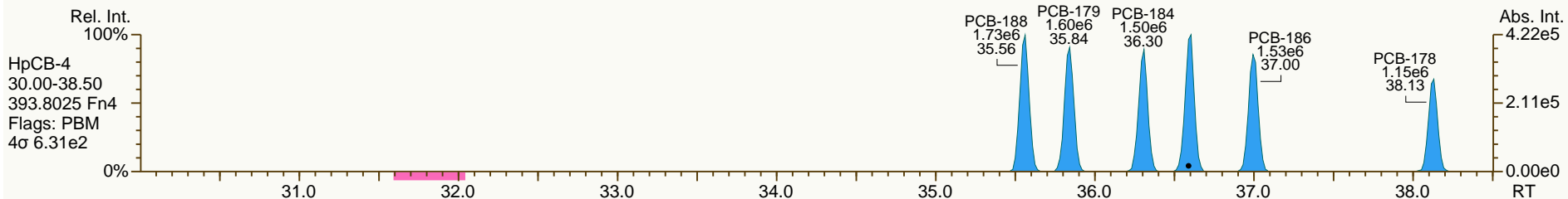
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-4  
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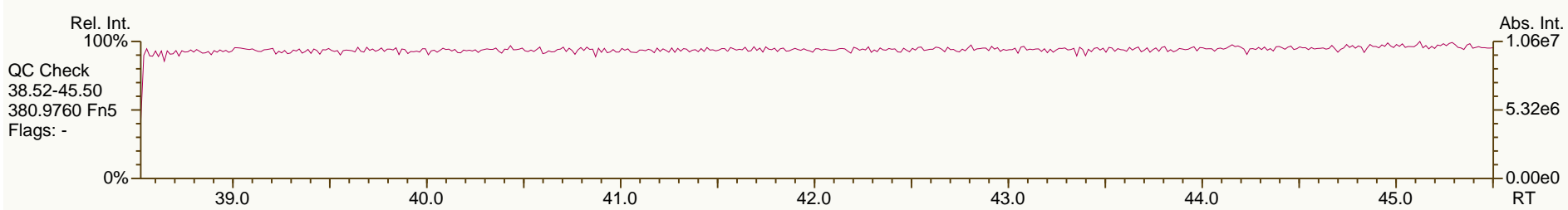
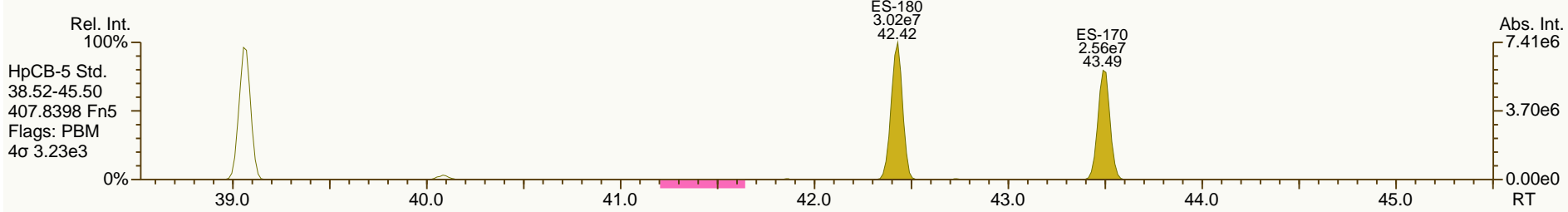
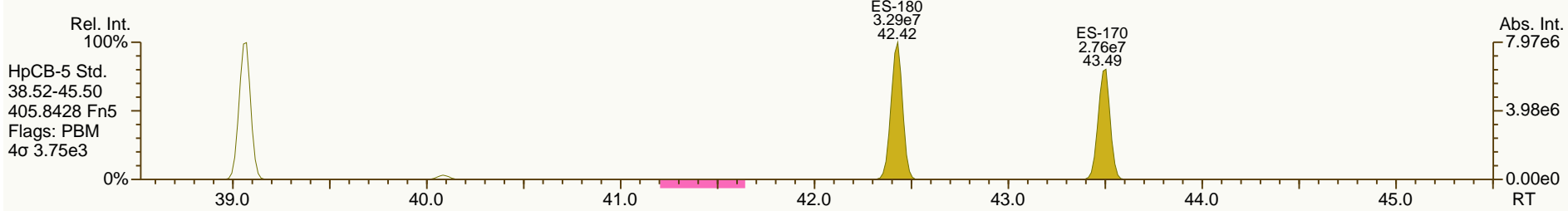
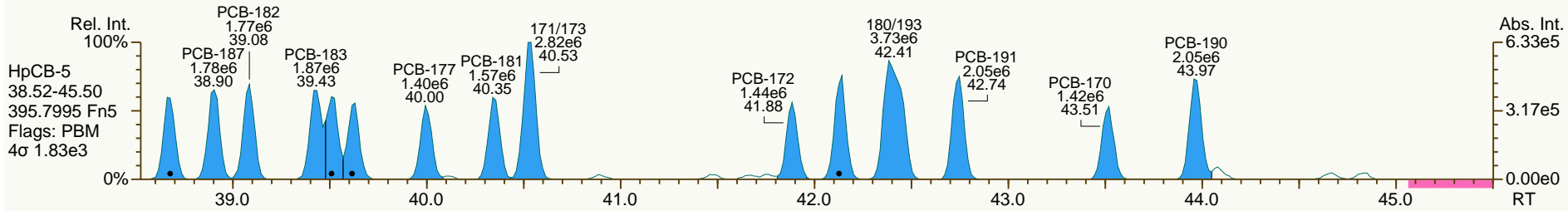
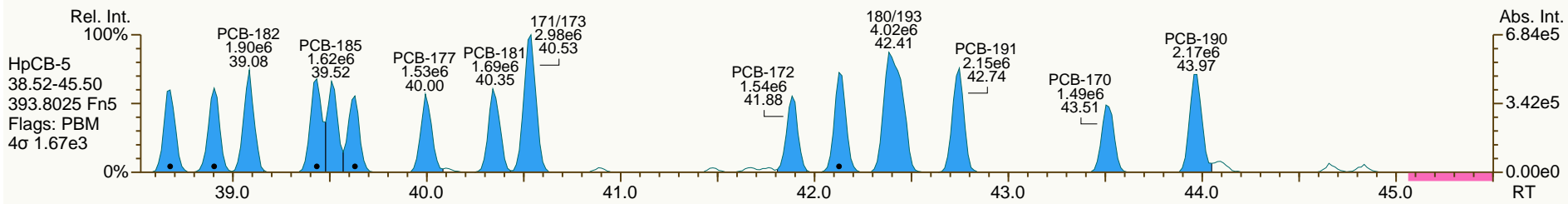
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-4  
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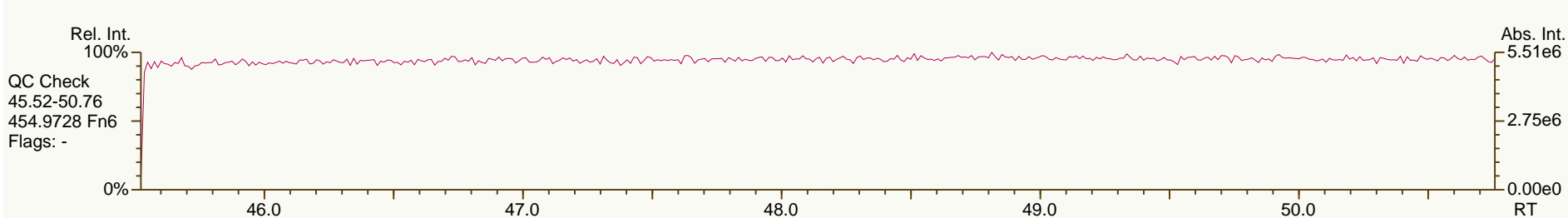
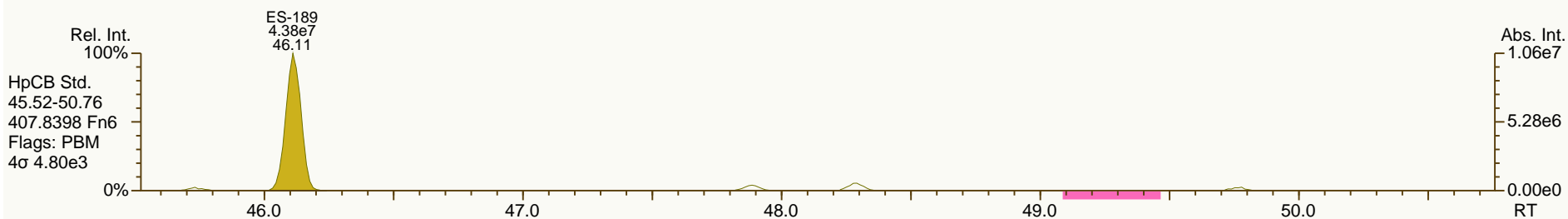
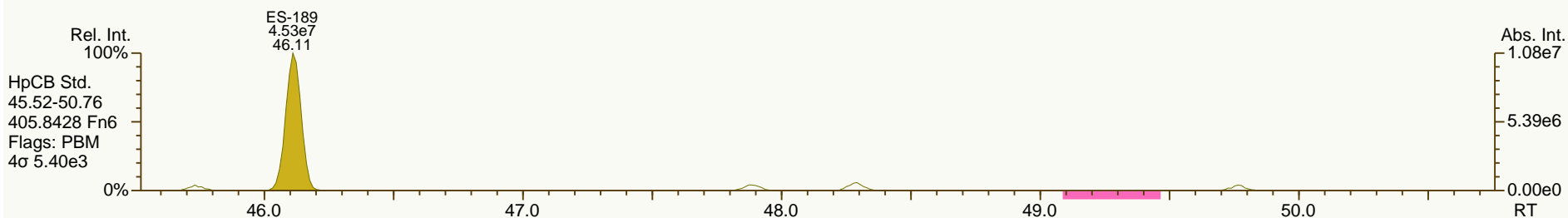
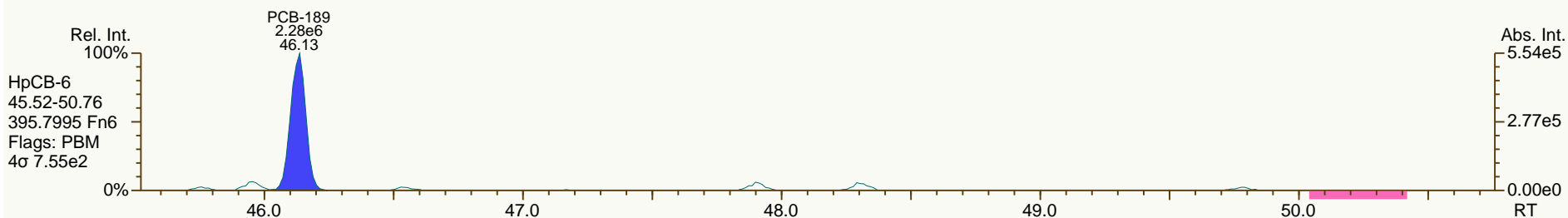
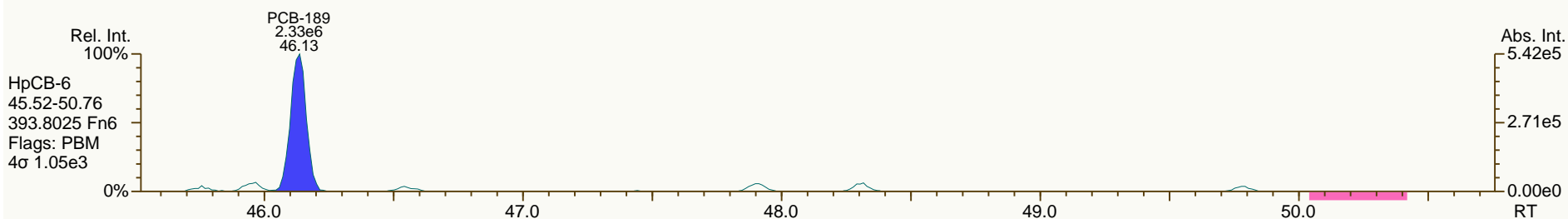
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SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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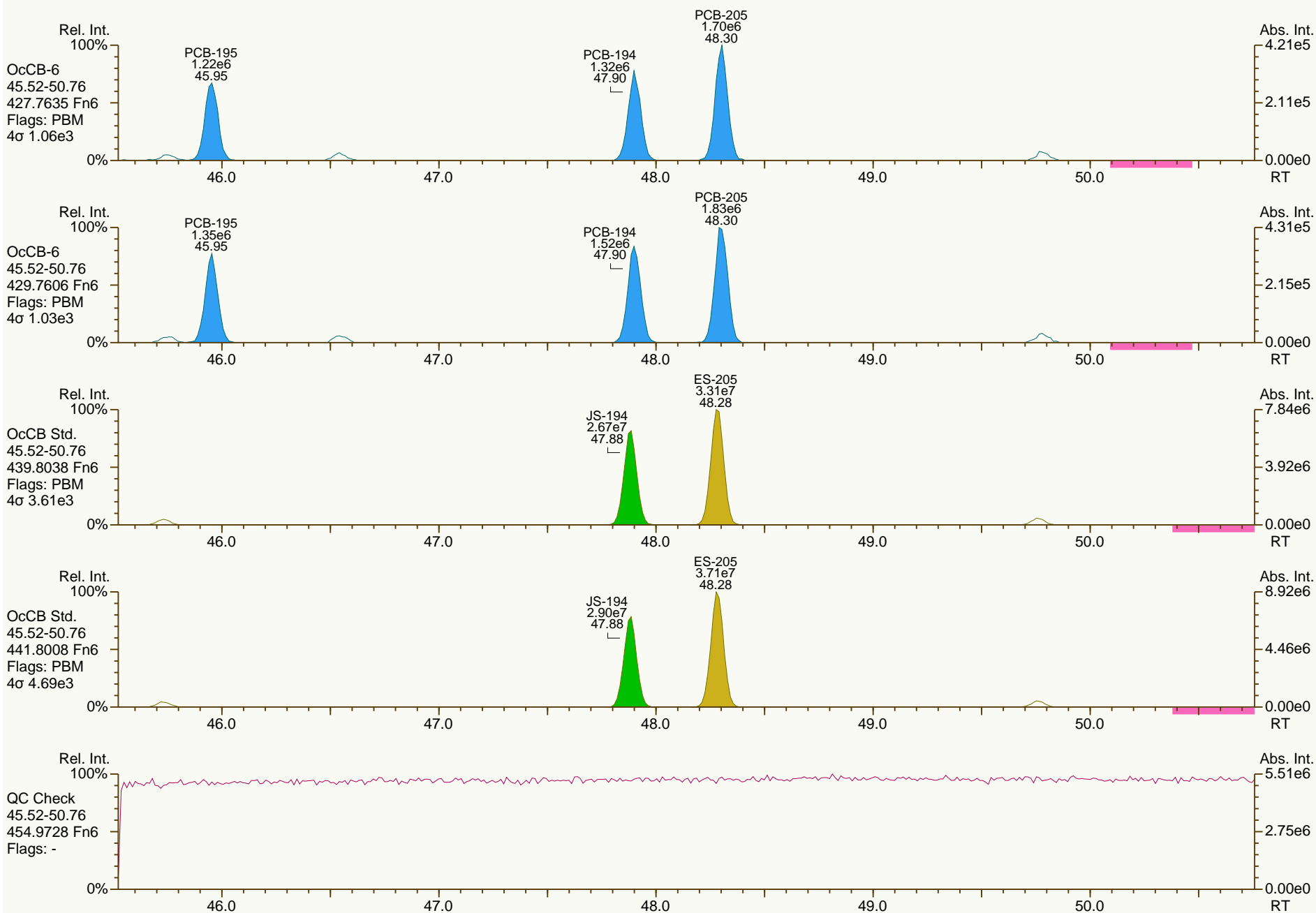
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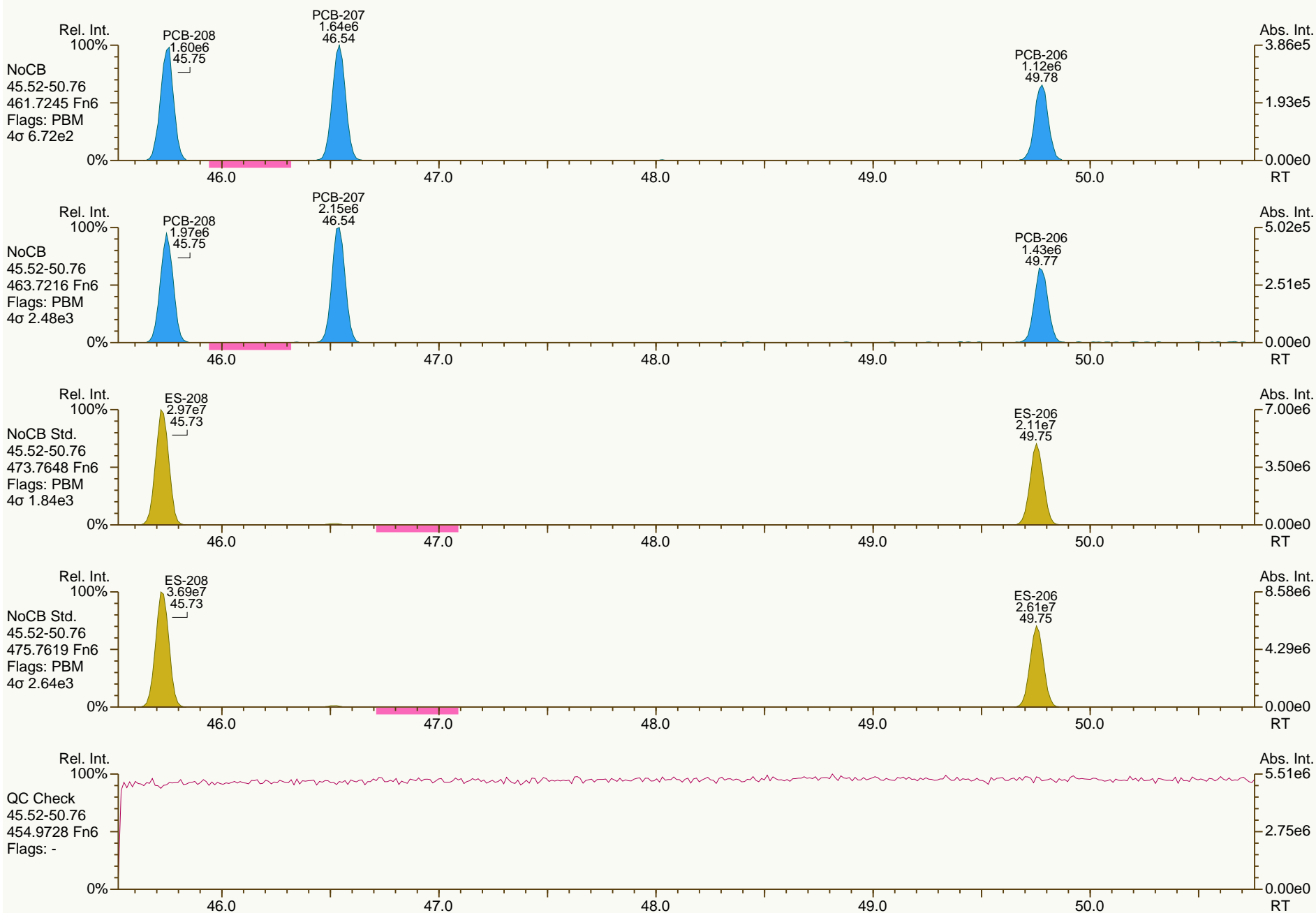
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Instr: AutoSpec-Premier MM7

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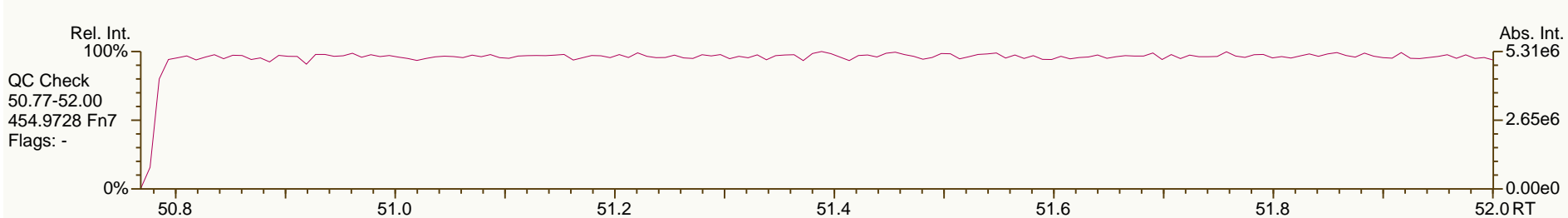
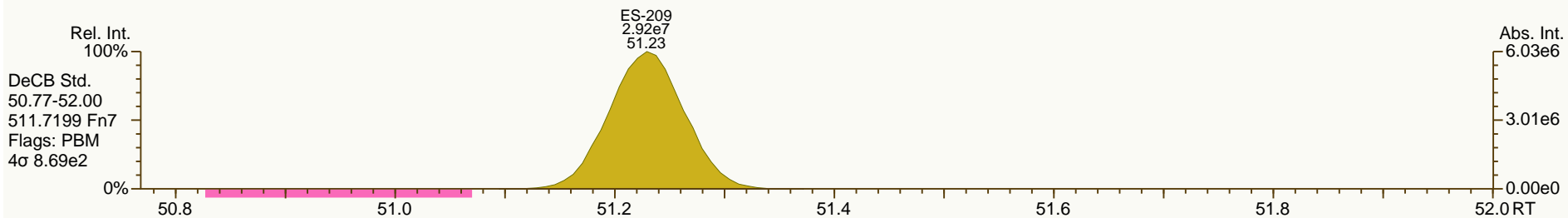
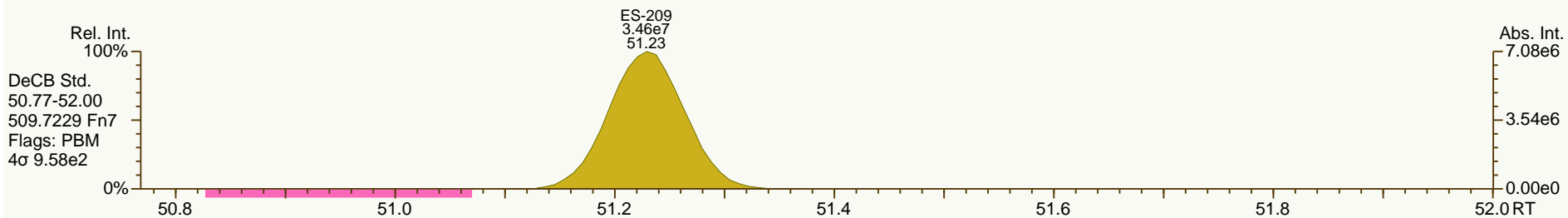
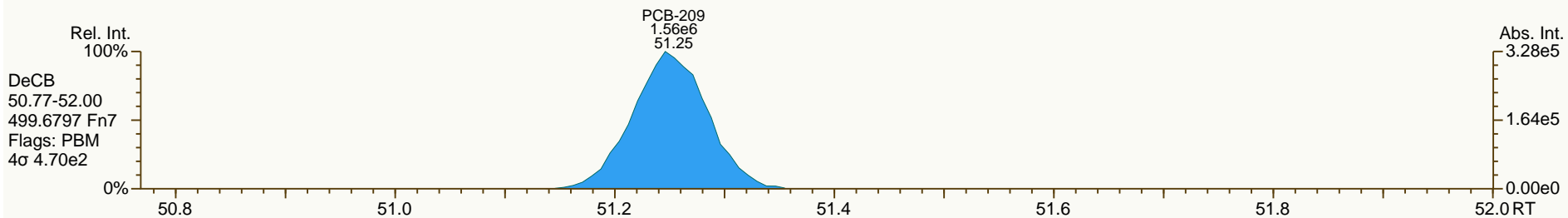
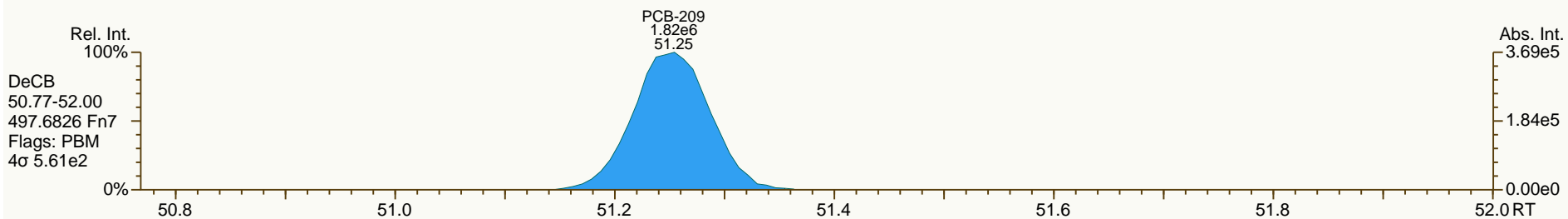
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
 User: LKB Datafile: 131220X04





PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57		
Lab ID:	CS3_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.72E+07	0.78 Y	1.15	1.14	-0.9%	
PCB-81 344'5'-TeCB	32.62	6.46E+07	0.78 Y	1.12	1.12	-0.2%	
PCB-105 233'44'-PeCB	36.09	5.36E+07	0.62 Y	1.11	1.13	1.3%	
PCB-114 2344'5'-PeCB	35.55	5.90E+07	0.63 Y	1.20	1.23	2.2%	
PCB-118 23'44'5'-PeCB	35.08	5.55E+07	0.62 Y	1.19	1.22	2.5%	
PCB-123 23'44'5'-PeCB	34.80	5.75E+07	0.62 Y	1.21	1.23	1.5%	
PCB-126 33'44'5'-PeCB	38.71	4.48E+07	0.62 Y	1.11	1.12	1.1%	
PCB-156/157 ...-HxCB	41.26	9.35E+07	1.23 Y	1.10	1.12	2.3%	
PCB-167 23'44'55'-HxCB	40.28	5.18E+07	1.21 Y	1.16	1.20	2.9%	
PCB-169 33'44'55'-HxCB	43.98	4.66E+07	1.24 Y	1.12	1.16	2.8%	
PCB-189 233'44'55'-HpCB	46.12	4.39E+07	1.04 Y	1.07	1.07	-0.2%	
PCB-209 DeCB	51.23	3.15E+07	1.18 Y	1.11	1.09	-2.1%	
ES PCB-1	12.02	2.19E+08	3.31 Y	1.19	1.18	-1.3%	
ES PCB-3	14.34	1.97E+08	3.36 Y	1.09	1.06	-2.5%	
ES PCB-4	14.60	9.59E+07	1.62 Y	0.52	0.52	-1.2%	
ES PCB-15	20.36	1.90E+08	1.57 Y	1.04	1.02	-1.9%	
ES PCB-19	17.72	9.32E+07	1.08 Y	0.51	0.50	-0.9%	
ES PCB-37	26.72	1.42E+08	1.09 Y	1.66	1.61	-2.9%	
ES PCB-54	20.65	7.49E+07	0.82 Y	0.86	0.85	-0.9%	
ES PCB-77	33.08	1.18E+08	0.79 Y	1.38	1.34	-2.9%	
ES PCB-81	32.60	1.16E+08	0.81 Y	1.37	1.32	-3.5%	
ES PCB-104	25.66	6.47E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.07	9.52E+07	1.57 Y	1.20	1.18	-1.7%	
ES PCB-114	35.53	9.60E+07	1.64 Y	1.22	1.19	-2.1%	
ES PCB-118	35.06	9.11E+07	1.63 Y	1.16	1.13	-2.4%	
ES PCB-123	34.78	9.36E+07	1.59 Y	1.19	1.16	-2.1%	
ES PCB-126	38.69	8.01E+07	1.60 Y	1.03	0.99	-3.2%	
ES PCB-153	36.65	5.89E+07	1.29 Y	1.11	1.10	-1.2%	
ES PCB-155	30.63	8.37E+07	1.30 Y	1.59	1.56	-1.6%	
ES PCB-156/157	41.24	1.67E+08	1.28 Y	1.60	1.56	-2.7%	
ES PCB-167	40.26	8.66E+07	1.28 Y	1.67	1.62	-3.0%	
ES PCB-169	43.96	8.06E+07	1.28 Y	1.56	1.51	-3.2%	
ES PCB-170	43.48	4.93E+07	1.09 Y	0.95	0.95	-0.1%	
ES PCB-180	42.41	5.80E+07	1.09 Y	1.14	1.11	-2.2%	
ES PCB-188	35.52	4.92E+07	1.11 Y	0.94	0.92	-2.1%	
ES PCB-189	46.10	8.18E+07	1.01 Y	1.58	1.57	-0.9%	
ES PCB-202	40.07	5.16E+07	0.93 Y	0.97	0.97	-0.5%	
ES PCB-205	48.27	6.45E+07	0.89 Y	1.24	1.24	-0.6%	
ES PCB-206	49.74	4.32E+07	0.80 Y	0.83	0.83	-0.1%	
ES PCB-208	45.71	6.09E+07	0.80 Y	1.17	1.17	-0.5%	
ES PCB-209	51.21	5.77E+07	1.21 Y	1.11	1.11	-0.3%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 18:04							
Datafile:	131220X05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
SS PCB-28	23.15	1.59E+08	1.09 Y	1.11	1.12	1.0%		
SS PCB-111	33.09	9.83E+07	1.61 Y	1.03	1.05	2.1%		
SS PCB-178	38.09	3.00E+07	1.10 Y	0.62	0.61	-1.7%		
CS PCB-28	23.15	1.59E+08	1.09 Y	1.85	1.81	-1.8%		
CS PCB-111	33.09	9.83E+07	1.61 Y	1.22	1.22	0.0%		
CS PCB-178	38.09	3.00E+07	1.10 Y	0.58	0.56	-3.7%		
JS PCB-9	16.60	1.86E+08	1.55 Y	-	-	-		
JS PCB-52	24.78	8.78E+07	0.82 Y	-	-	-		
JS PCB-101	30.80	8.05E+07	1.58 Y	-	-	-		
JS PCB-138	37.72	5.35E+07	1.28 Y	-	-	-		
JS PCB-194	47.87	5.22E+07	0.91 Y	-	-	-		
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%		
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%		
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%		
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%		
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%		
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%		
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%		
PCB-104 22'466'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%		
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%		
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%		
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%		
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%		
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%		
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%		

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%	
PCB-2 3-MoCB	14.17	1.07E+08	3.26 Y	1.03	1.08	4.8%	
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%	
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%	
PCB-10 26'-DiCB	14.80	9.81E+07	1.61 Y	1.98	2.05	3.2%	
PCB-9 25'-DiCB	16.62	9.11E+07	1.64 Y	0.95	0.96	1.6%	
PCB-7 24'-DiCB	16.78	1.03E+08	1.63 Y	1.05	1.09	4.1%	
PCB-6 23'-DiCB	17.01	9.79E+07	1.63 Y	1.00	1.03	3.6%	
PCB-5 23'-DiCB	17.32	9.70E+07	1.62 Y	1.00	1.02	2.0%	
PCB-8 24'-DiCB	17.44	9.83E+07	1.64 Y	1.03	1.04	0.3%	
PCB-14 35'-DiCB	19.01	1.14E+08	1.62 Y	1.18	1.20	1.9%	
PCB-11 33'-DiCB	19.80	9.79E+07	1.64 Y	1.01	1.03	2.0%	
PCB-13/12 34'/34'-DiCB	20.09	1.94E+08	1.63 Y	0.99	1.02	3.1%	
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%	
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.46E+08	1.05 Y	1.54	1.57	1.9%	
PCB-17 22'4'-TrCB	19.91	6.21E+07	1.05 Y	1.31	1.33	2.2%	
PCB-27 23'6'-TrCB	20.11	8.52E+07	1.06 Y	1.82	1.83	0.7%	
PCB-24 236'-TrCB	20.24	8.13E+07	1.04 Y	1.72	1.74	1.2%	
PCB-16 22'3'-TrCB	20.34	4.64E+07	1.06 Y	1.01	1.00	-1.0%	
PCB-32 24'6'-TrCB	20.82	8.97E+07	1.06 Y	1.92	1.93	0.3%	
PCB-34 23'5'-TrCB	21.98	8.15E+07	0.99 Y	1.14	1.15	1.4%	
PCB-23 235'-TrCB	22.13	8.33E+07	0.99 Y	1.16	1.18	1.8%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.69E+08	0.99 Y	1.17	1.20	2.1%	
PCB-25 23'4'-TrCB	22.61	8.39E+07	0.98 Y	1.16	1.18	2.3%	
PCB-31 24'5'-TrCB	22.89	8.91E+07	0.99 Y	1.23	1.26	2.6%	
PCB-28/20 244'/233'-TrCB	23.18	1.65E+08	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.36	1.71E+08	0.97 Y	1.17	1.21	2.8%	
PCB-22 234'-TrCB	23.74	7.72E+07	0.98 Y	1.08	1.09	0.9%	
PCB-36 33'5'-TrCB	25.13	8.43E+07	0.99 Y	1.17	1.19	1.6%	
PCB-39 34'5'-TrCB	25.45	8.82E+07	0.99 Y	1.21	1.24	2.8%	
PCB-38 345'-TrCB	25.99	8.09E+07	0.99 Y	1.10	1.14	3.4%	
PCB-35 33'4'-TrCB	26.38	7.62E+07	0.99 Y	1.04	1.08	3.5%	
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%	
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%	
PCB-50/53 22'46'/22'56'-TeCB	22.67	1.04E+08	0.79 Y	0.88	0.90	2.6%	
PCB-45 22'36'-TeCB	23.26	4.29E+07	0.78 Y	0.77	0.74	-3.3%	
PCB-51 22'46'-TeCB	23.33	5.41E+07	0.79 Y	0.86	0.93	8.7%	
PCB-46 22'36'-TeCB	23.54	4.19E+07	0.78 Y	0.70	0.72	3.5%	
PCB-52 22'55'-TeCB	24.80	4.97E+07	0.79 Y	0.84	0.86	1.6%	
PCB-73 23'5'6'-TeCB	24.93	6.50E+07	0.79 Y	1.11	1.12	0.9%	
PCB-43 22'35'-TeCB	25.03	4.44E+07	0.79 Y	0.71	0.77	7.9%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.22E+08	0.79 Y	1.02	1.05	3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.51	5.03E+07	0.79 Y	0.84	0.87	3.5%	
PCB-44/47/65 ...-TeCB	25.73	1.61E+08	0.79 Y	0.90	0.93	2.8%	
PCB-59/62/75 ...-TeCB	26.01	2.11E+08	0.79 Y	1.17	1.21	4.0%	
PCB-42 22'34'-TeCB	26.17	4.56E+07	0.79 Y	0.76	0.79	3.2%	
PCB-41 22'34'-TeCB	26.51	4.24E+07	0.78 Y	0.69	0.73	5.4%	
PCB-71/40 23'4'6/22'33'-TeCB	26.60	1.01E+08	0.80 Y	0.86	0.87	1.7%	
PCB-64 23'4'6'-TeCB	26.80	7.33E+07	0.79 Y	1.22	1.27	3.7%	
PCB-72 23'55'-TeCB	27.52	7.21E+07	0.77 Y	1.21	1.25	3.0%	
PCB-68 23'45'-TeCB	27.78	7.57E+07	0.79 Y	1.28	1.31	2.4%	
PCB-57 23'35'-TeCB	28.15	6.97E+07	0.78 Y	1.16	1.20	3.4%	
PCB-58 23'35'-TeCB	28.35	6.93E+07	0.79 Y	1.18	1.20	1.6%	
PCB-67 23'45'-TeCB	28.51	7.46E+07	0.78 Y	1.26	1.29	2.3%	
PCB-63 23'45'-TeCB	28.74	7.70E+07	0.78 Y	1.30	1.33	2.5%	
PCB-61/70/74/76 ...-TeCB	29.03	2.84E+08	0.78 Y	1.20	1.23	2.3%	
PCB-66 23'44'-TeCB	29.32	6.58E+07	0.78 Y	1.10	1.14	3.1%	
PCB-55 23'34'-TeCB	29.46	6.61E+07	0.78 Y	1.12	1.14	1.9%	
PCB-56 23'34'-TeCB	29.90	6.57E+07	0.78 Y	1.11	1.13	2.2%	
PCB-60 23'44'-TeCB	30.09	6.65E+07	0.78 Y	1.14	1.15	1.2%	
PCB-80 33'55'-TeCB	30.42	7.84E+07	0.79 Y	1.31	1.35	3.1%	
PCB-79 33'45'-TeCB	31.75	7.58E+07	0.78 Y	1.31	1.31	0.3%	
PCB-78 33'45'-TeCB	32.24	6.37E+07	0.79 Y	1.06	1.10	3.6%	
PCB-104 22'46'6'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%	
PCB-96 22'36'6'-PeCB	26.00	4.07E+07	0.65 Y	1.23	1.26	2.3%	
PCB-103 22'45'6'-PeCB	27.69	4.49E+07	0.62 Y	0.93	0.96	3.1%	
PCB-94 22'35'6'-PeCB	27.89	3.89E+07	0.62 Y	0.80	0.83	3.9%	
PCB-95 22'35'6'-PeCB	28.27	4.15E+07	0.62 Y	0.87	0.89	2.5%	
PCB-100/93 22'44'6/22'35'6'-PeCB	28.48	8.23E+07	0.62 Y	0.86	0.88	1.9%	
PCB-102 22'45'6'-PeCB	28.59	4.80E+07	0.62 Y	0.97	1.03	6.0%	
PCB-98 22'34'6'-PeCB	28.66	3.74E+07	0.62 Y	0.76	0.80	5.5%	
PCB-88 22'34'6'-PeCB	28.96	3.48E+07	0.61 Y	0.80	0.74	-6.9%	
PCB-91 22'34'6'-PeCB	29.03	4.85E+07	0.62 Y	0.94	1.04	9.9%	
PCB-84 22'33'6'-PeCB	29.22	3.51E+07	0.62 Y	0.72	0.75	4.8%	
PCB-89 22'34'6'-PeCB	29.64	3.72E+07	0.61 Y	0.76	0.80	4.3%	
PCB-121 23'45'6'-PeCB	29.99	5.76E+07	0.62 Y	1.20	1.23	2.6%	
PCB-92 22'35'5'-PeCB	30.31	3.91E+07	0.61 Y	0.82	0.84	1.9%	
PCB-113/90/101 ...-PeCB	30.79	1.40E+08	0.62 Y	0.99	1.00	1.0%	
PCB-83 22'33'5'-PeCB	31.23	3.39E+07	0.62 Y	0.71	0.72	1.2%	
PCB-99 22'44'5'-PeCB	31.33	4.26E+07	0.62 Y	0.92	0.91	-1.2%	
PCB-112 23'3'5'6'-PeCB	31.43	5.82E+07	0.62 Y	1.17	1.24	6.6%	
PCB-108/119/86/97/125...-PeCB	31.78	2.85E+08	0.62 Y	0.98	1.01	3.6%	
PCB-117 23'4'5'6'-PeCB	32.31	5.48E+07	0.62 Y	1.14	1.17	2.9%	
PCB-116/85 23'45'6/22'34'4'-PeCB	32.41	8.79E+07	0.63 Y	0.94	0.94	-0.1%	
PCB-110 23'3'4'6'-PeCB	32.52	5.86E+07	0.62 Y	1.12	1.25	12.0%	

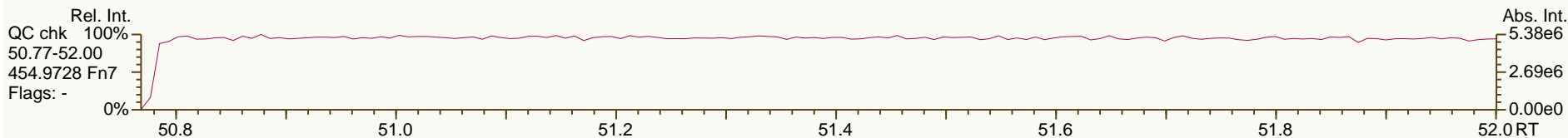
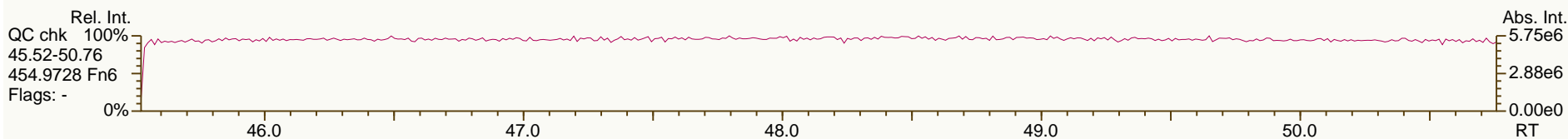
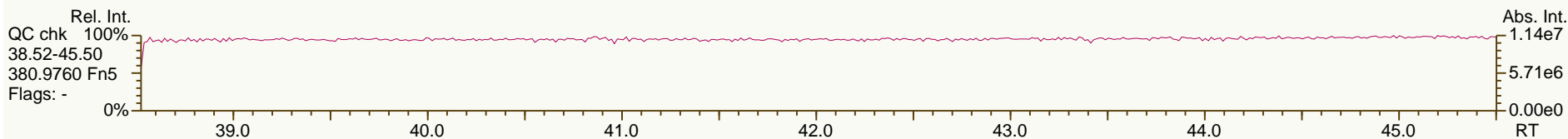
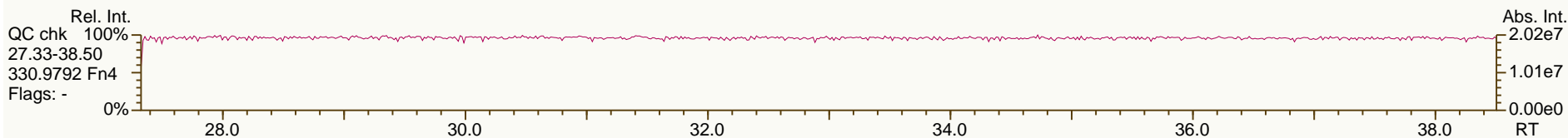
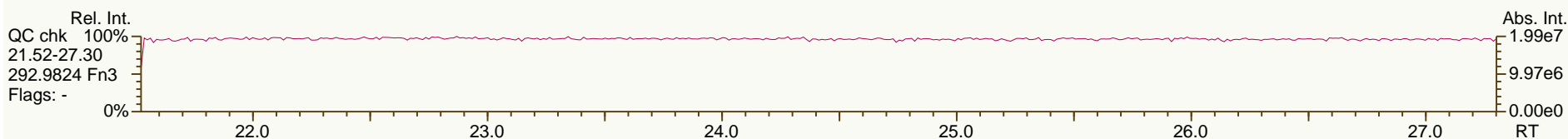
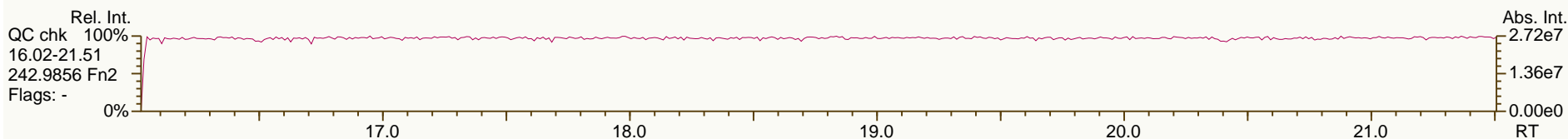
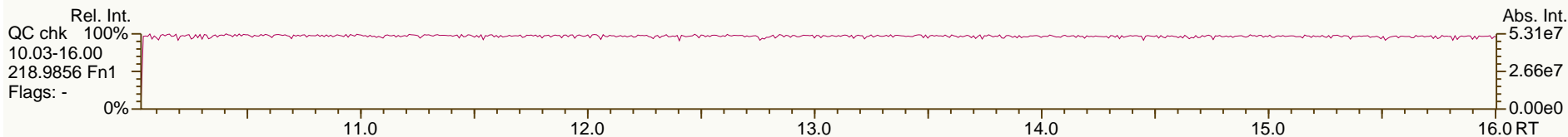
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.61	5.15E+07	0.62 Y	1.16	1.10	-5.0%	
PCB-82 22'33'4-PeCB	32.80	3.29E+07	0.62 Y	0.70	0.70	0.8%	
PCB-111 233'55'-PeCB	33.12	5.86E+07	0.62 Y	1.22	1.25	2.6%	
PCB-120 23'455'-PeCB	33.52	5.80E+07	0.62 Y	1.21	1.24	2.4%	
PCB-107/124 ...-PeCB	34.49	1.06E+08	0.62 Y	1.10	1.14	3.4%	
PCB-109 233'46-PeCB	34.69	6.23E+07	0.62 Y	1.25	1.33	6.3%	
PCB-106 233'45-PeCB	34.91	5.24E+07	0.62 Y	1.11	1.12	1.3%	
PCB-122 233'4'5'-PeCB	35.38	4.86E+07	0.62 Y	0.99	1.01	1.9%	
PCB-127 33'455'-PeCB	37.33	5.29E+07	0.62 Y	1.10	1.11	1.5%	
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%	
PCB-152 22'3566'-HxCB	30.81	4.87E+07	1.29 Y	1.17	1.16	-0.8%	
PCB-150 22'34'66'-HxCB	30.96	5.03E+07	1.27 Y	1.18	1.20	2.2%	
PCB-136 22'33'66'-HxCB	31.26	4.58E+07	1.28 Y	1.07	1.09	2.6%	
PCB-145 22'3466'-HxCB	31.53	4.68E+07	1.28 Y	1.11	1.12	0.3%	
PCB-148 22'34'56'-HxCB	32.81	3.50E+07	1.29 Y	1.18	1.19	0.6%	
PCB-151/135 ...-HxCB	33.33	6.71E+07	1.28 Y	1.14	1.14	0.1%	
PCB-154 22'44'56'-HxCB	33.54	3.92E+07	1.27 Y	1.34	1.33	-0.9%	
PCB-144 22'345'6-HxCB	33.80	3.50E+07	1.28 Y	1.18	1.19	0.5%	
PCB-147/149 ...-HxCB	34.11	6.95E+07	1.26 Y	1.18	1.18	0.4%	
PCB-134 22'33'56-HxCB	34.28	2.62E+07	1.29 Y	0.92	0.89	-3.9%	
PCB-143 22'3456'-HxCB	34.36	3.47E+07	1.29 Y	1.13	1.18	4.3%	
PCB-139/140 ...-HxCB	34.63	7.06E+07	1.29 Y	1.21	1.20	-0.5%	
PCB-131 22'33'46-HxCB	34.80	3.02E+07	1.28 Y	1.03	1.03	0.0%	
PCB-142 22'3456-HxCB	34.95	2.97E+07	1.27 Y	0.99	1.01	1.8%	
PCB-132 22'33'46'-HxCB	35.18	3.05E+07	1.29 Y	1.03	1.03	0.4%	
PCB-133 22'33'55'-HxCB	35.59	3.33E+07	1.27 Y	1.13	1.13	-0.2%	
PCB-165 233'55'6-HxCB	35.93	4.19E+07	1.29 Y	1.41	1.42	1.0%	
PCB-146 22'34'55'-HxCB	36.14	3.49E+07	1.26 Y	1.20	1.19	-1.3%	
PCB-161 233'45'6-HxCB	36.26	4.54E+07	1.29 Y	1.52	1.54	1.3%	
PCB-153/168 ...-HxCB	36.69	8.69E+07	1.27 Y	1.46	1.48	1.3%	
PCB-141 22'3455'-HxCB	36.84	3.24E+07	1.26 Y	1.09	1.10	1.2%	
PCB-130 22'33'45'-HxCB	37.18	2.87E+07	1.26 Y	0.97	0.97	0.2%	
PCB-137 22'344'5-HxCB	37.38	3.23E+07	1.26 Y	1.16	1.10	-5.5%	
PCB-164 233'4'5'6-HxCB	37.46	4.64E+07	1.27 Y	1.50	1.58	5.2%	
PCB-163/138/129 ...-HxCB	37.76	1.04E+08	1.27 Y	1.19	1.17	-1.4%	
PCB-160 233'456-HxCB	37.89	4.57E+07	1.27 Y	1.52	1.55	2.4%	
PCB-158 233'44'6-HxCB	38.08	4.80E+07	1.29 Y	1.66	1.63	-1.8%	
PCB-128/166 ...-HxCB	38.81	7.91E+07	1.23 Y	0.90	0.91	1.5%	
PCB-159 233'455'-HxCB	39.63	4.91E+07	1.23 Y	1.11	1.13	1.7%	
PCB-162 233'4'55'-HxCB	39.87	4.82E+07	1.22 Y	1.07	1.11	3.8%	
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%	
PCB-179 22'33'566'-HpCB	35.82	2.89E+07	1.08 Y	1.16	1.17	0.9%	
PCB-184 22'344'66'-HpCB	36.29	2.78E+07	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.58	3.08E+07	1.08 Y	1.23	1.25	1.6%	
PCB-186 22'34566'-HpCB	36.98	2.82E+07	1.09 Y	1.13	1.14	1.7%	
PCB-178 22'33'55'6'-HpCB	38.11	2.06E+07	1.08 Y	0.84	0.84	-0.7%	
PCB-175 22'33'45'6'-HpCB	38.66	3.12E+07	1.07 Y	1.07	1.08	0.3%	
PCB-187 22'34'55'6'-HpCB	38.89	3.32E+07	1.07 Y	1.14	1.15	0.7%	
PCB-182 22'344'56'-HpCB	39.07	3.55E+07	1.06 Y	1.18	1.22	4.2%	
PCB-183 22'344'5'6'-HpCB	39.42	3.70E+07	1.06 Y	1.20	1.28	6.0%	
PCB-185 22'3455'6'-HpCB	39.50	2.99E+07	1.07 Y	1.06	1.03	-2.8%	
PCB-174 22'33'456'-HpCB	39.61	2.90E+07	1.06 Y	0.99	1.00	1.1%	
PCB-177 22'33'45'6'-HpCB	39.98	2.76E+07	1.06 Y	0.95	0.95	0.0%	
PCB-181 22'344'56'-HpCB	40.33	3.21E+07	1.05 Y	1.09	1.11	1.7%	
PCB-171/173 ...-HpCB	40.52	5.60E+07	1.05 Y	0.95	0.97	1.8%	
PCB-172 22'33'455'-HpCB	41.87	2.94E+07	1.05 Y	0.99	1.02	2.7%	
PCB-192 233'455'6'-HpCB	42.12	3.83E+07	1.07 Y	1.29	1.32	2.5%	
PCB-180/193 ...-HpCB	42.39	7.38E+07	1.06 Y	1.26	1.27	1.0%	
PCB-191 233'44'5'6'-HpCB	42.73	4.06E+07	1.08 Y	1.40	1.40	0.4%	
PCB-170 22'33'44'5'-HpCB	43.50	2.83E+07	1.08 Y	1.14	1.15	1.0%	
PCB-190 233'44'56'-HpCB	43.95	4.10E+07	1.05 Y	1.66	1.66	0.2%	
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%	
PCB-201 22'33'45'66'-OcCB	40.88	3.19E+07	0.91 Y	1.22	1.24	1.2%	
PCB-204 22'344'566'-OcCB	41.46	2.88E+07	0.93 Y	1.12	1.12	0.0%	
PCB-197 22'33'44'66'-OcCB	41.65	2.98E+07	0.91 Y	1.19	1.15	-3.2%	
PCB-200 22'33'4566'-OcCB	41.73	3.01E+07	0.93 Y	1.11	1.16	5.1%	
PCB-198/199 ...-OcCB	44.06	4.14E+07	0.91 Y	0.81	0.80	-0.8%	
PCB-196 22'33'44'56'-OcCB	44.64	2.18E+07	0.91 Y	0.83	0.84	1.1%	
PCB-203 22'344'55'6'-OcCB	44.81	2.26E+07	0.91 Y	0.87	0.88	0.2%	
PCB-195 22'33'44'56'-OcCB	45.94	2.41E+07	0.93 Y	0.77	0.75	-2.5%	
PCB-194 22'33'44'55'-OcCB	47.89	2.69E+07	0.91 Y	0.84	0.84	-0.9%	
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%	
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%	
PCB-207 22'33'44'566'-NoCB	46.52	3.65E+07	0.78 Y	1.19	1.20	0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%	

SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

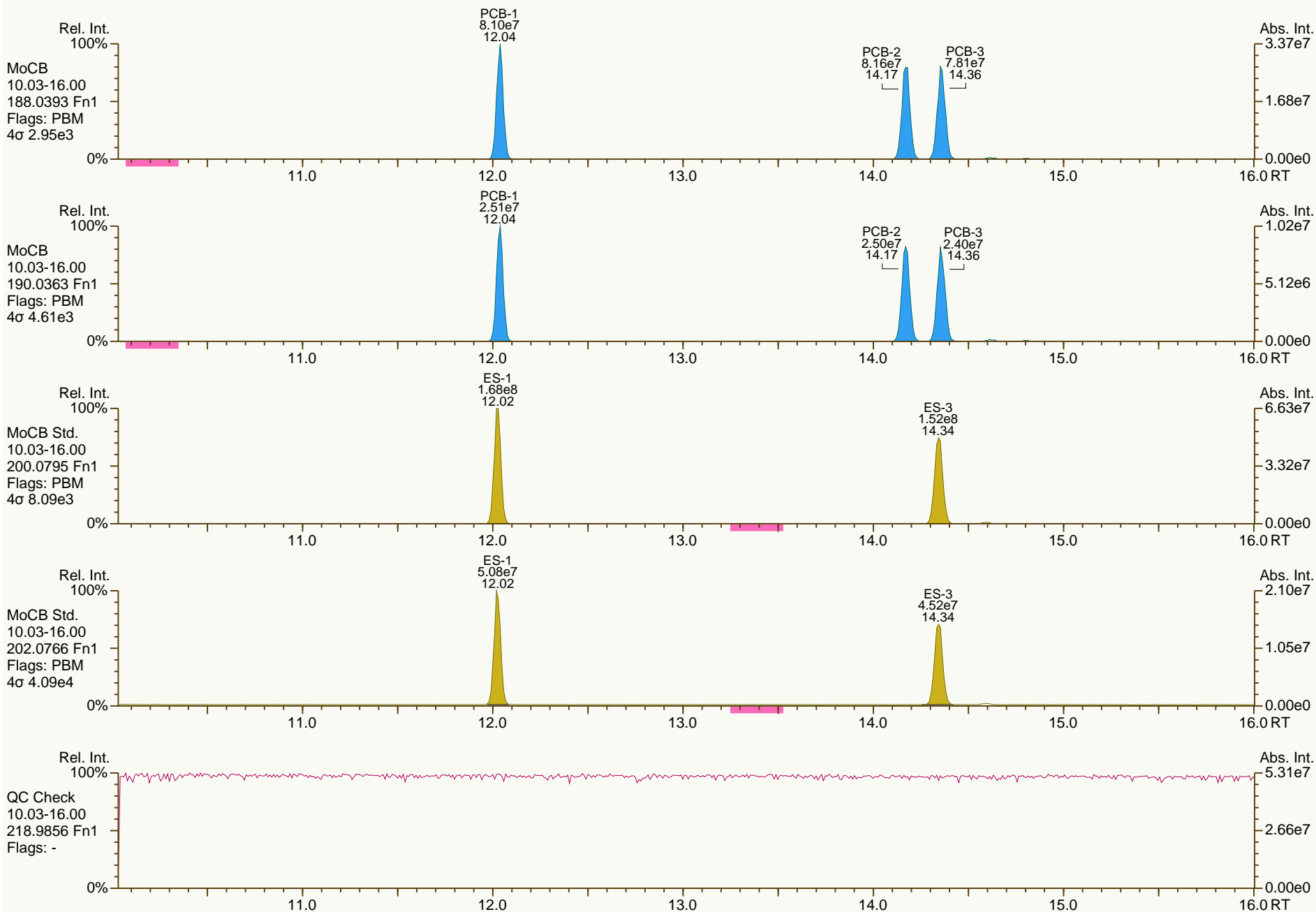
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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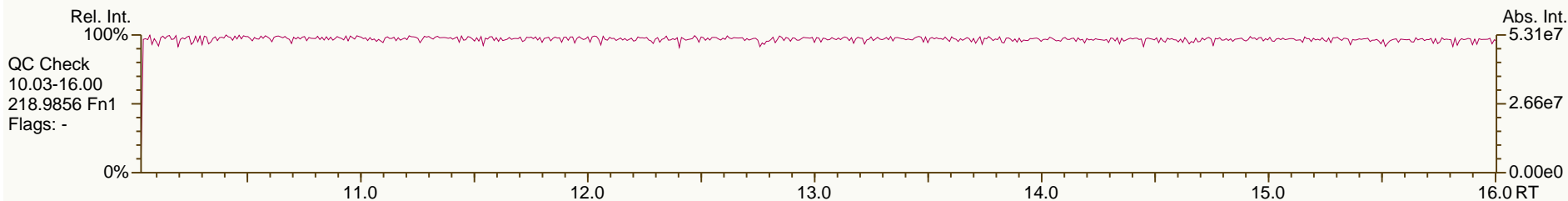
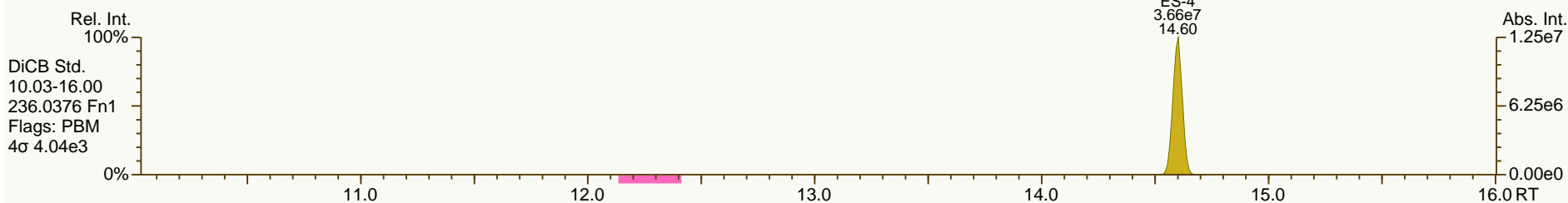
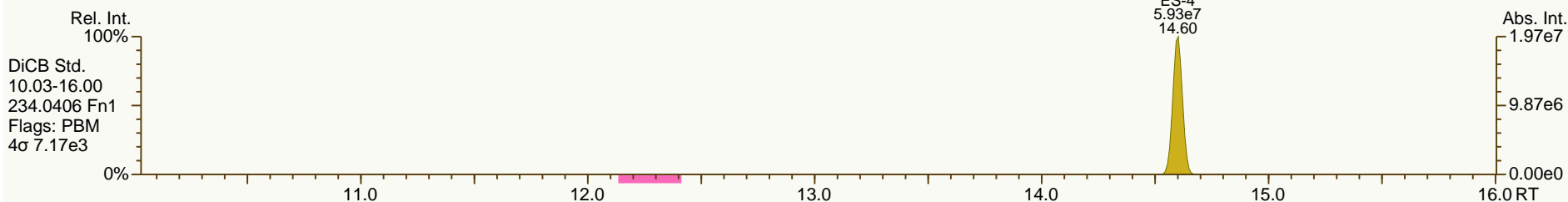
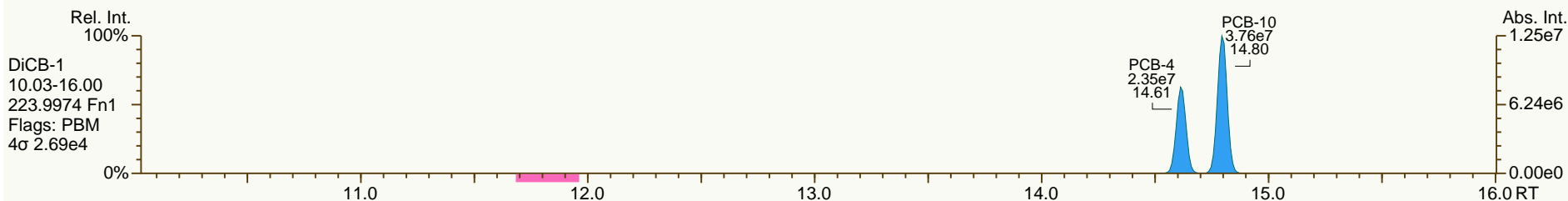
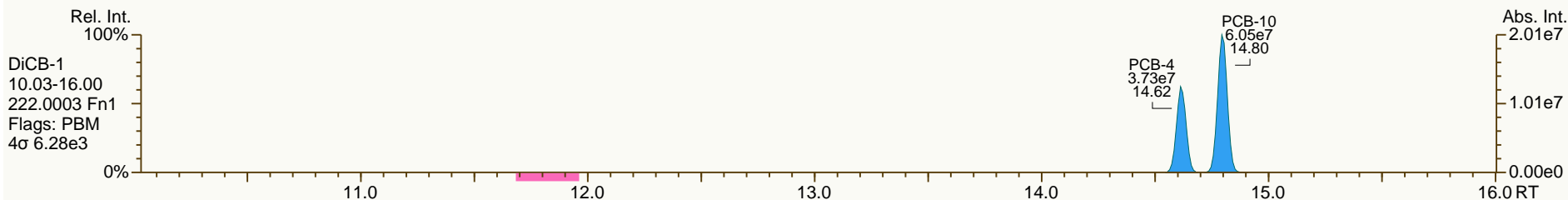




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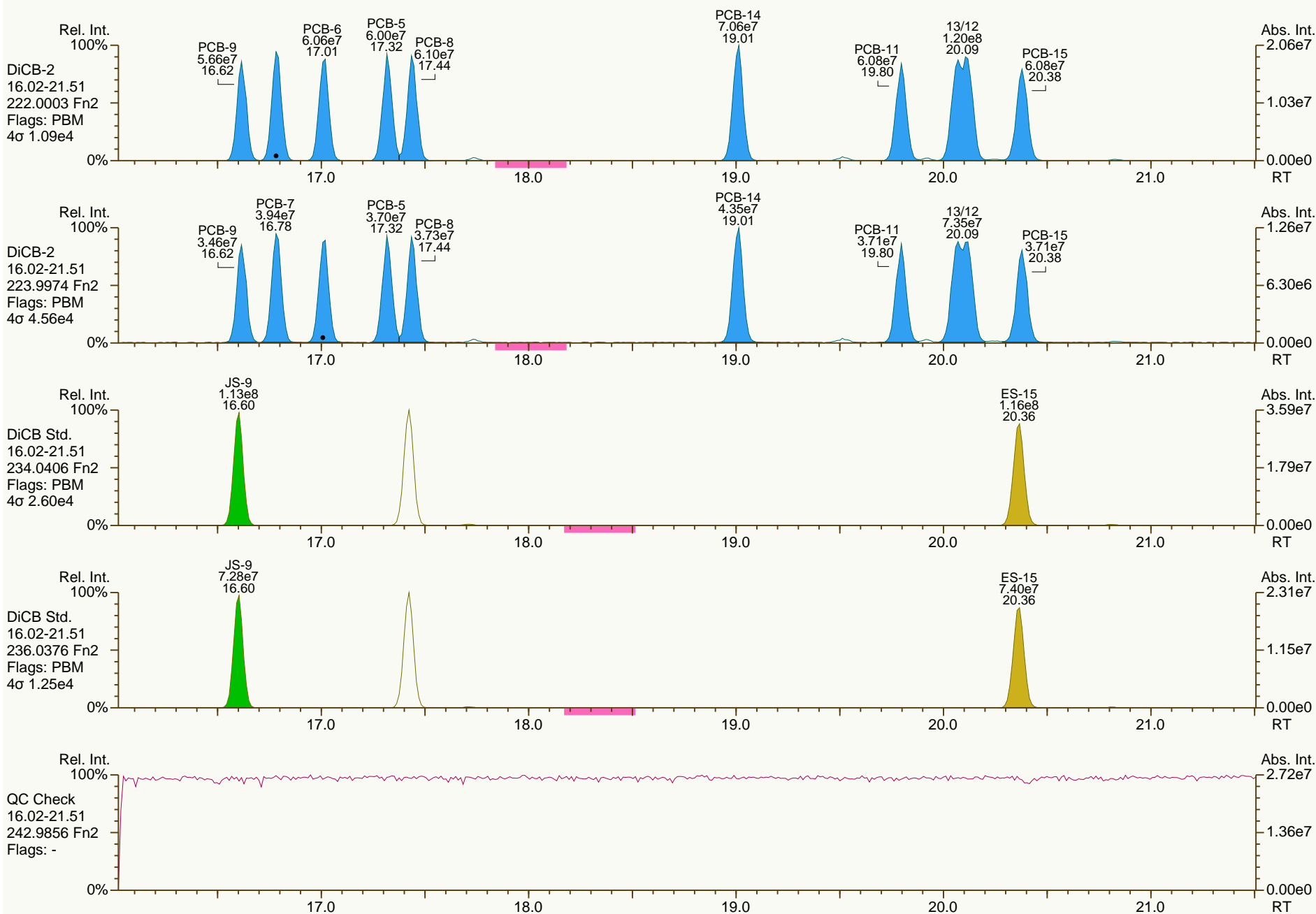
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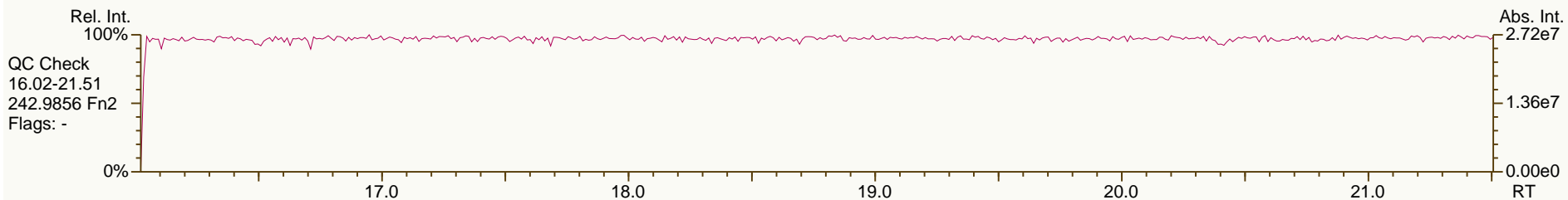
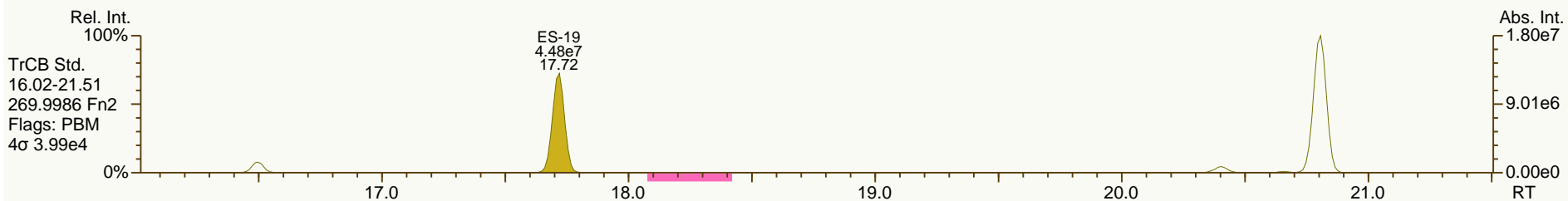
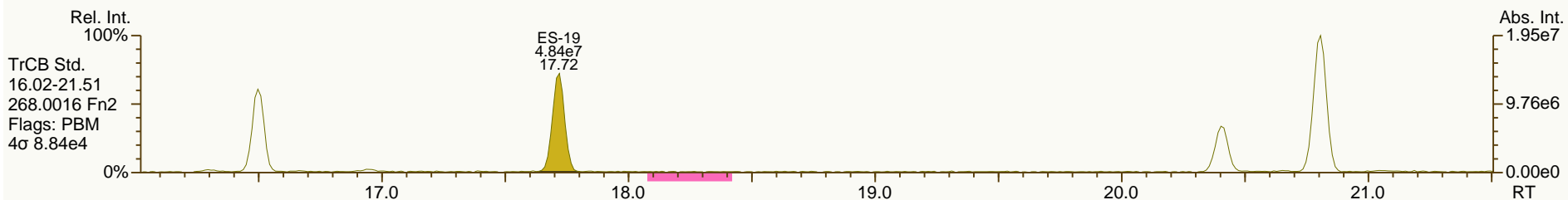
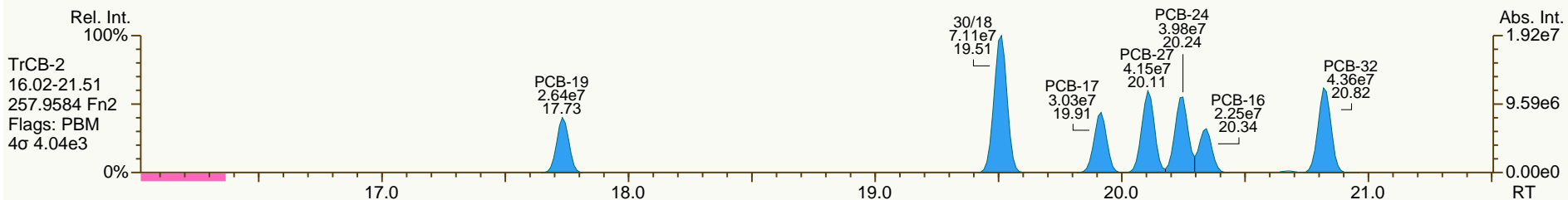
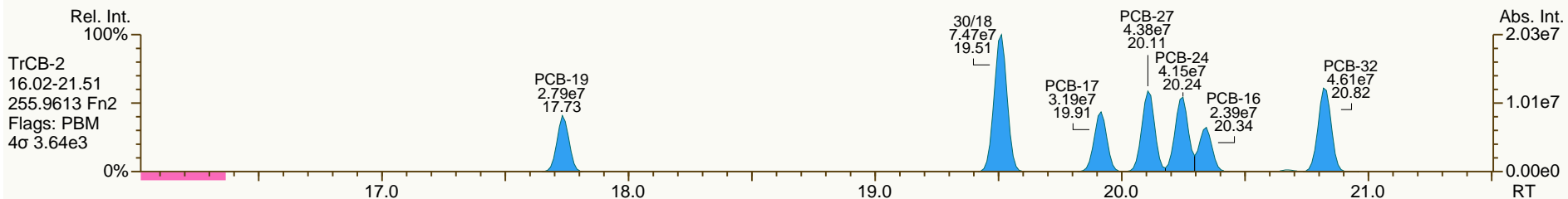
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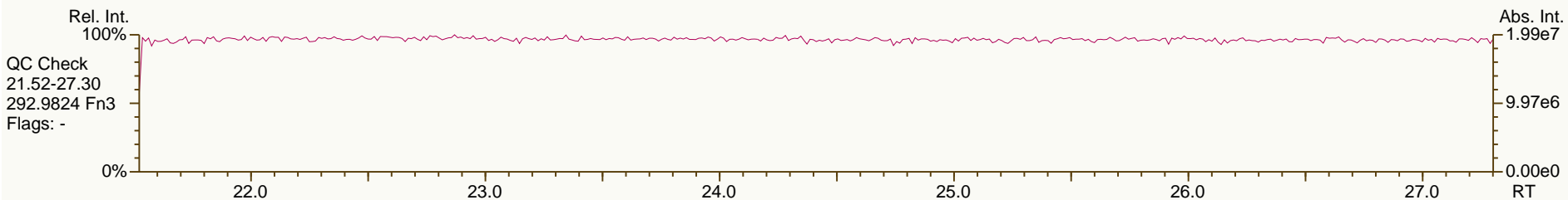
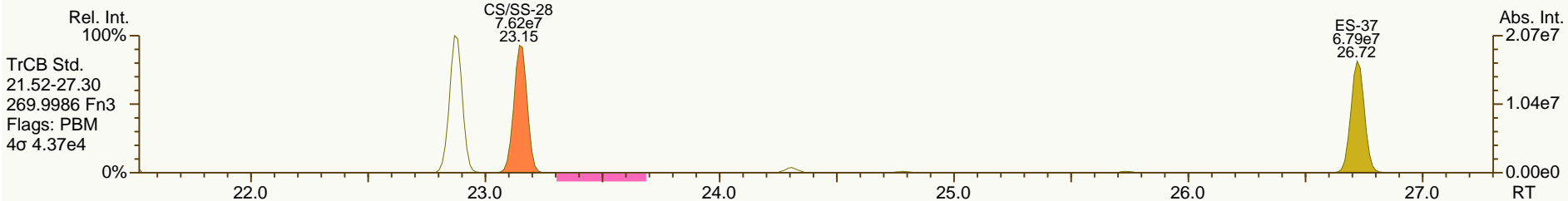
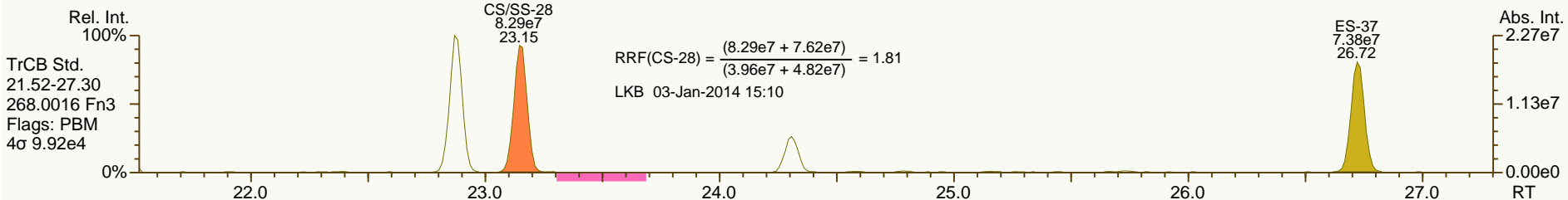
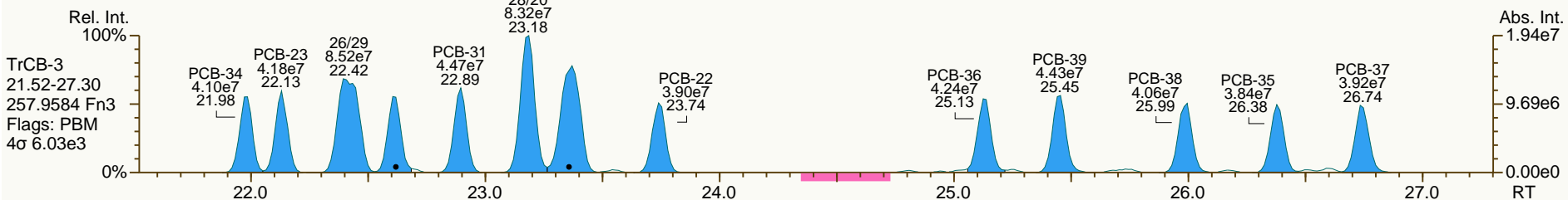
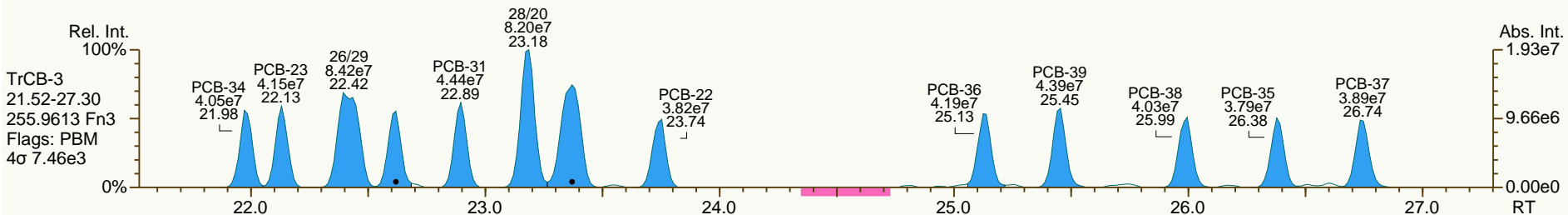
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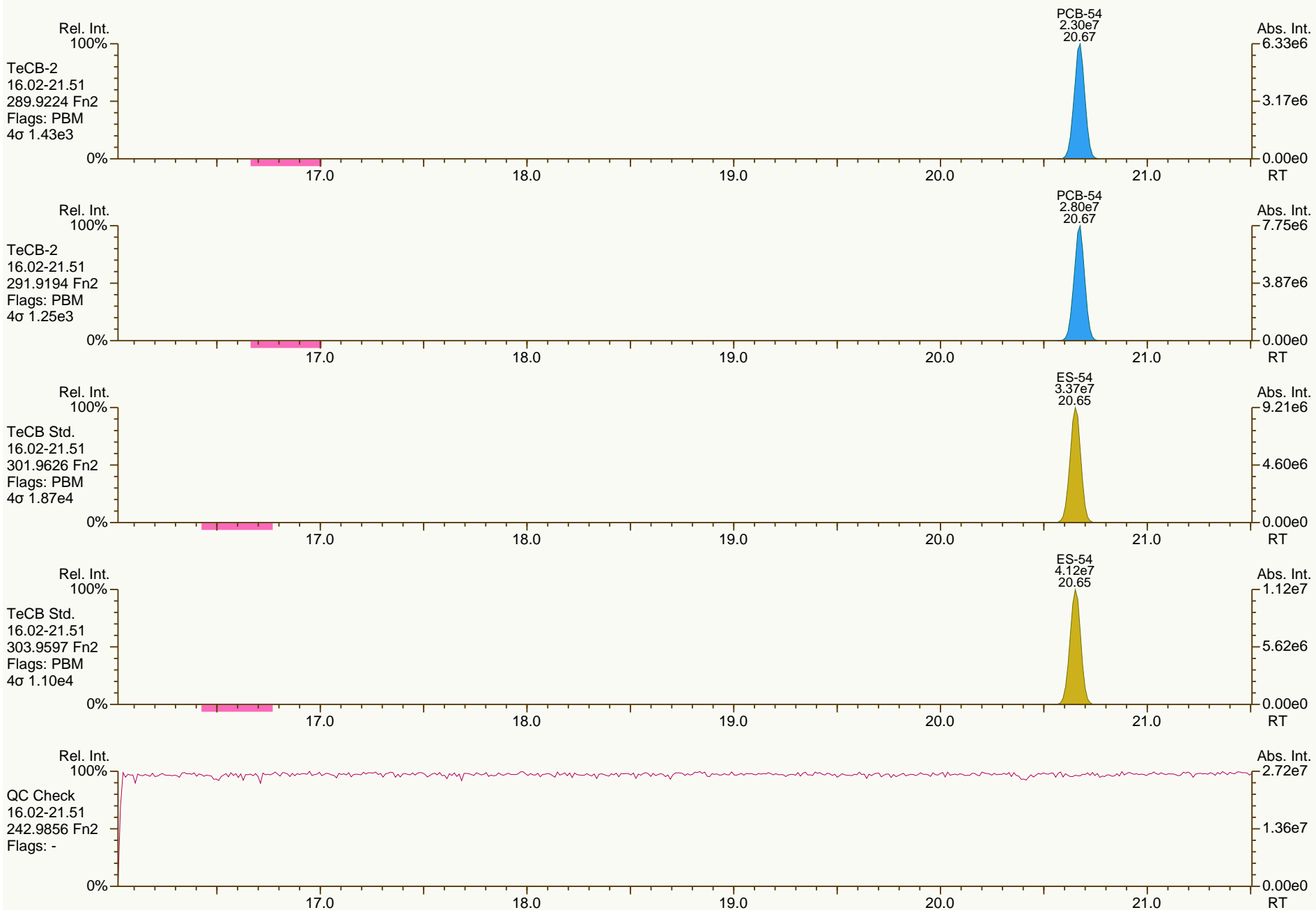
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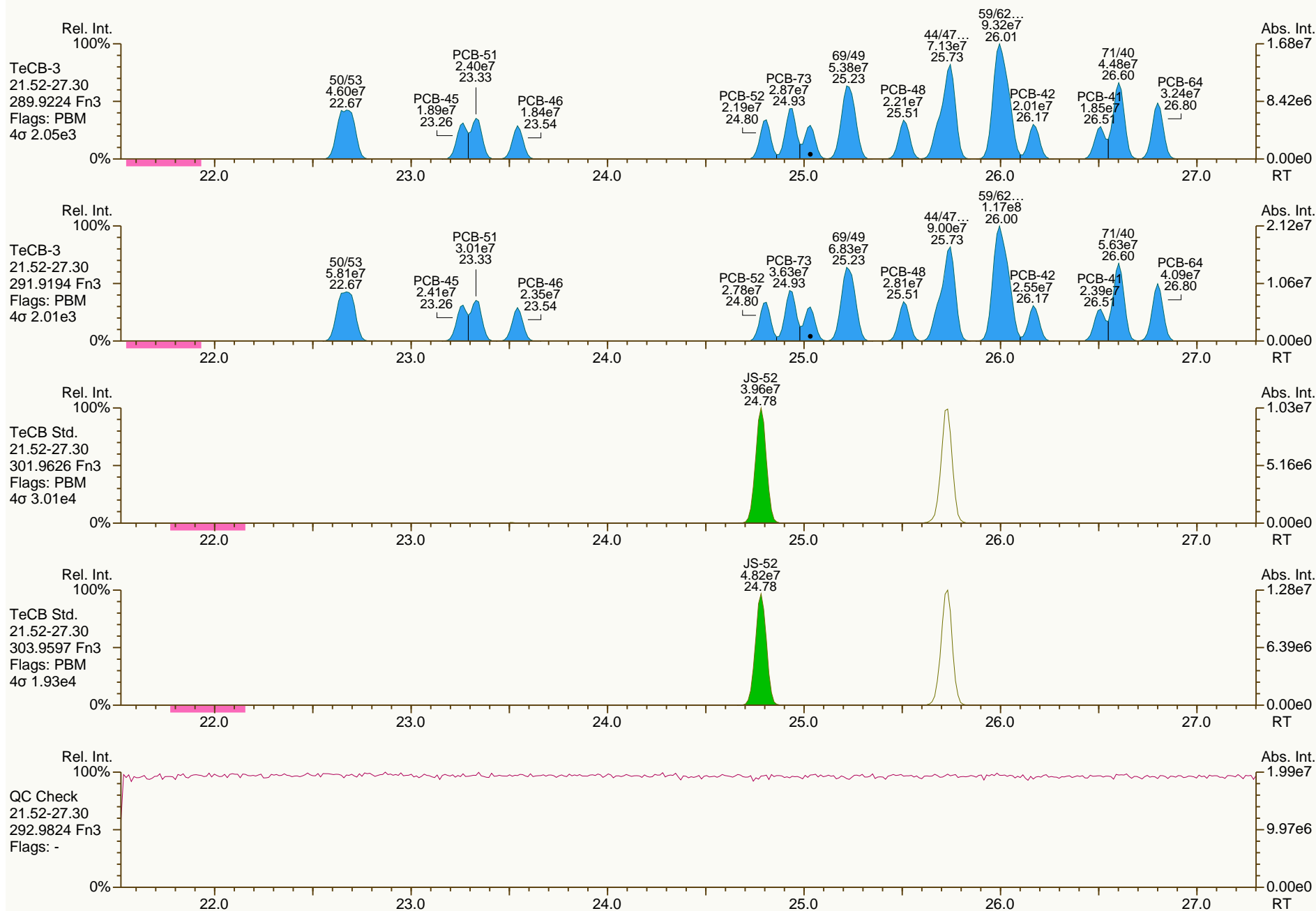
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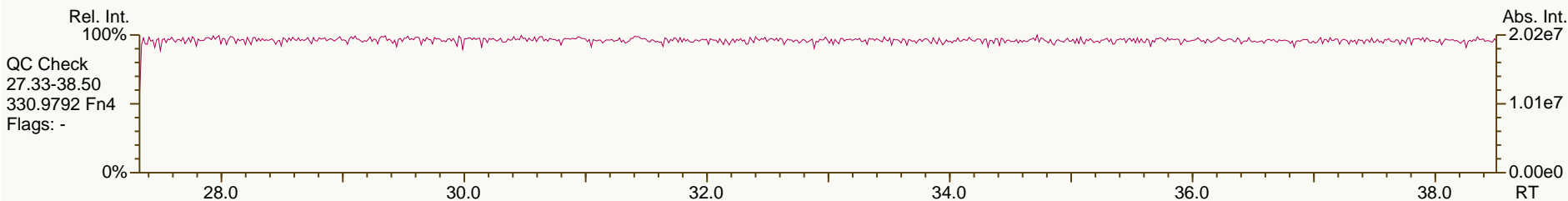
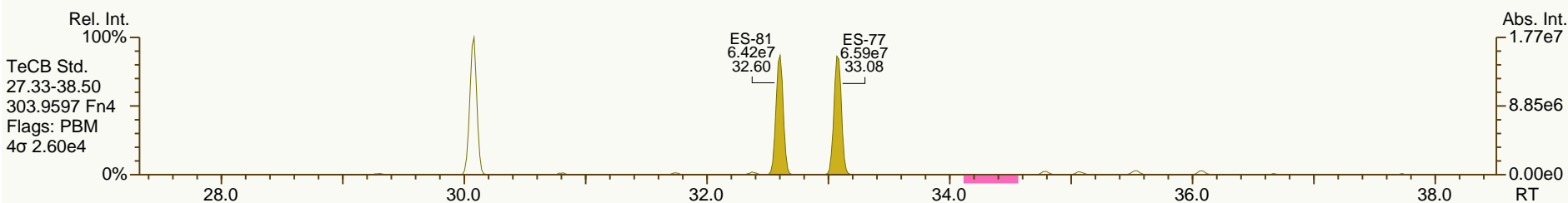
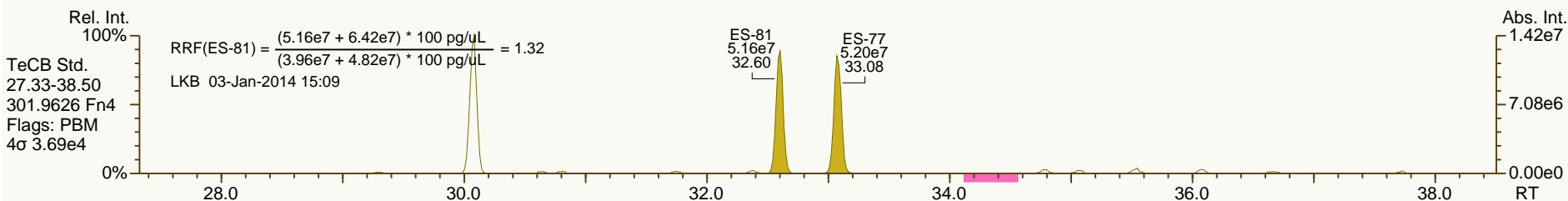
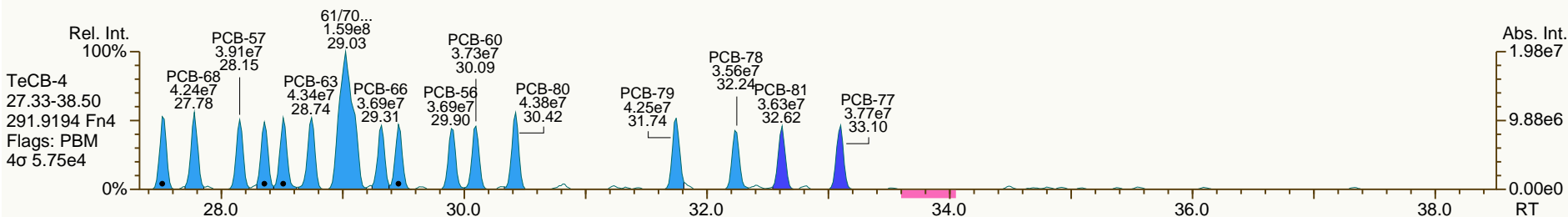
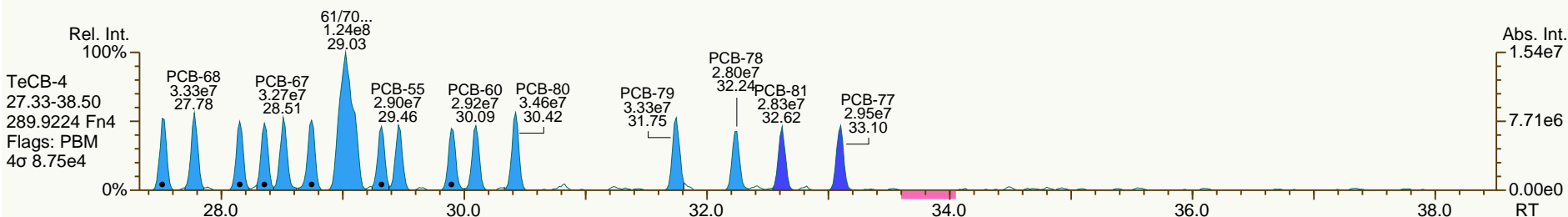
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Sample ID: SIL 13-79-3  
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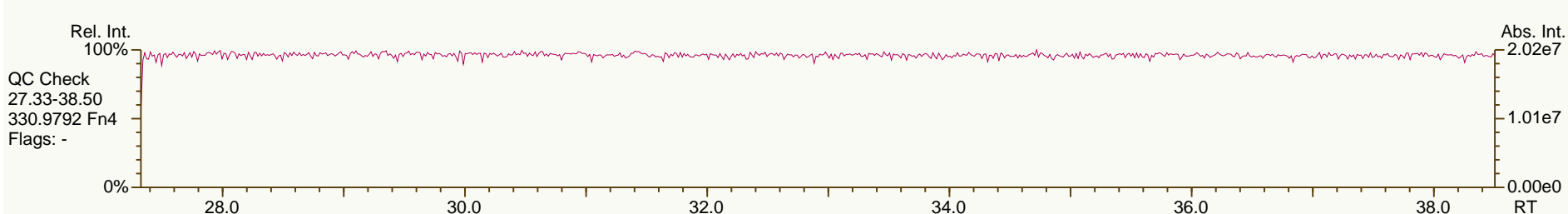
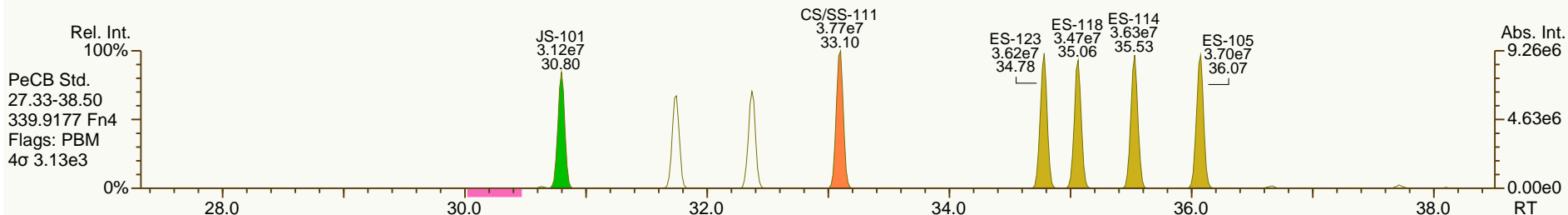
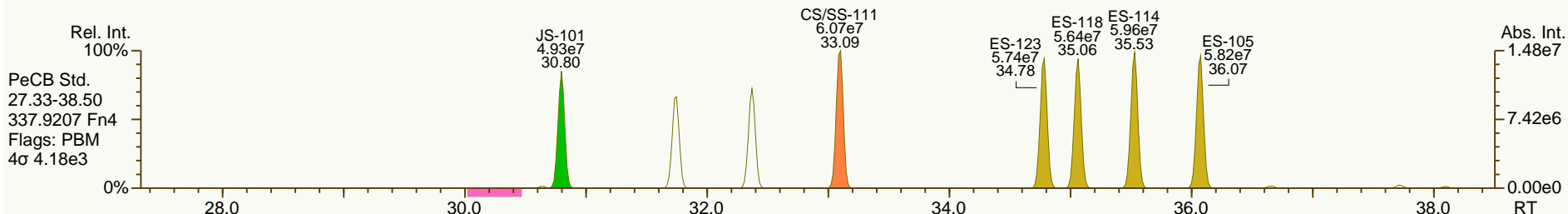
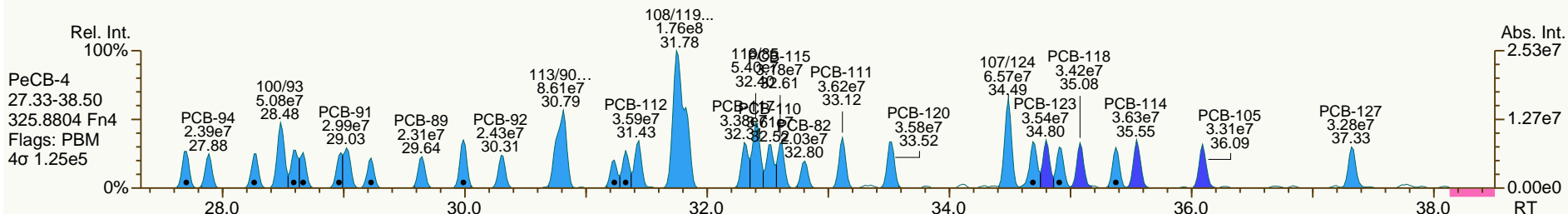
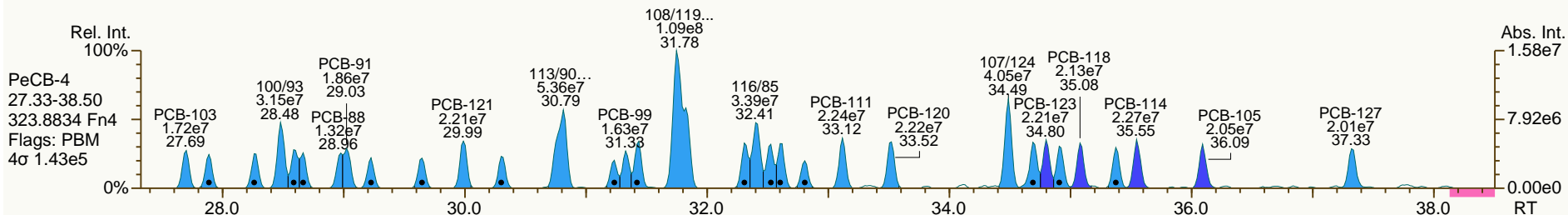




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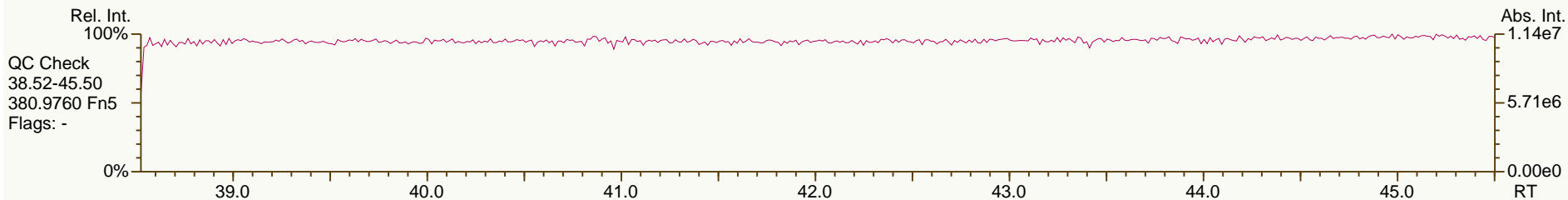
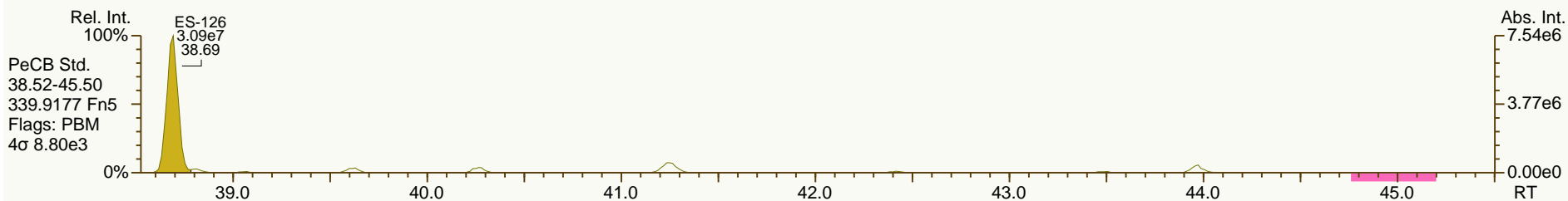
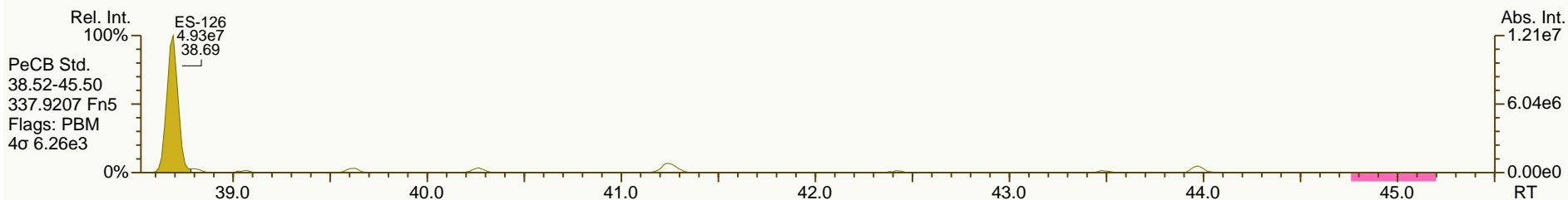
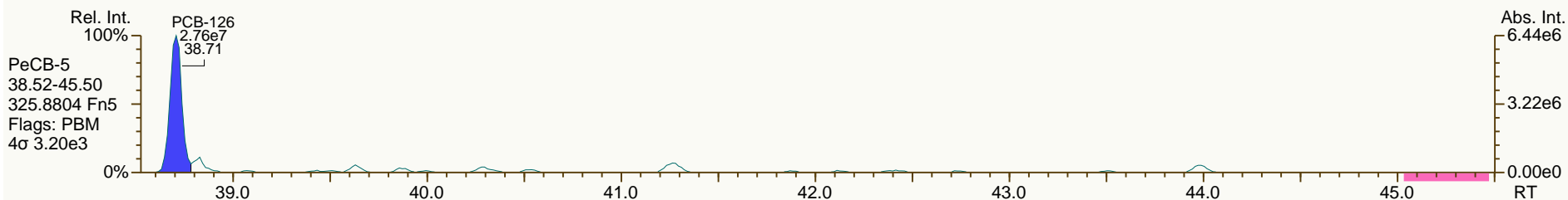
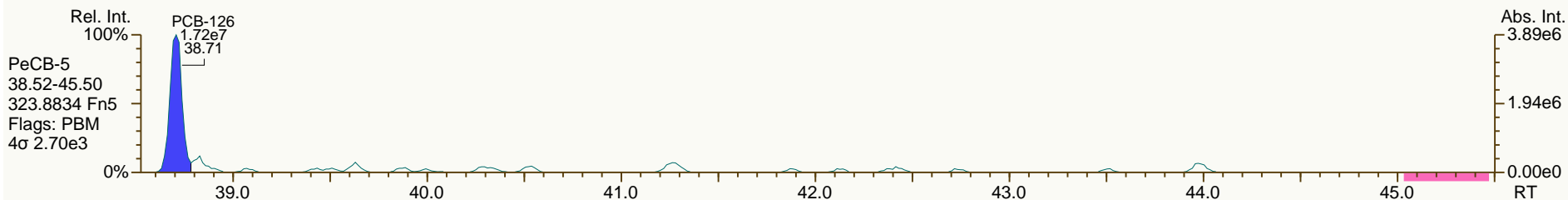
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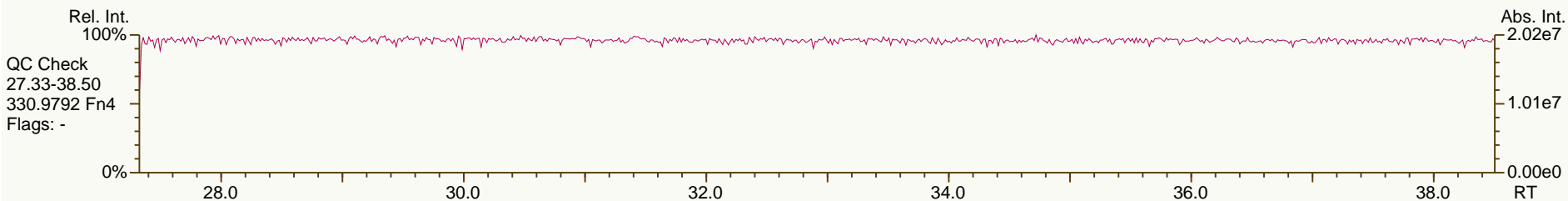
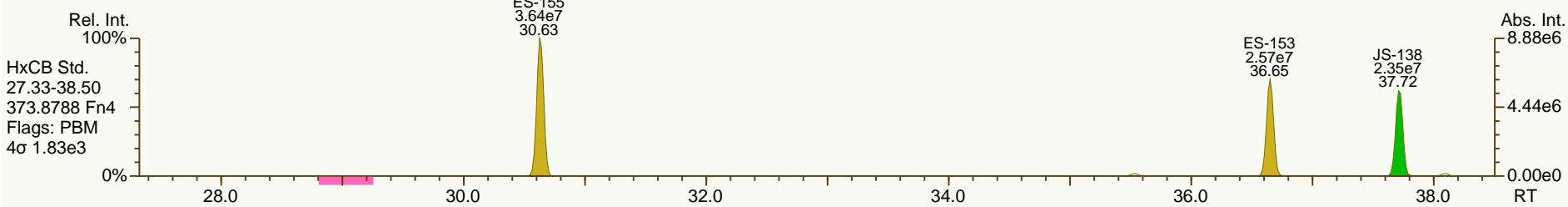
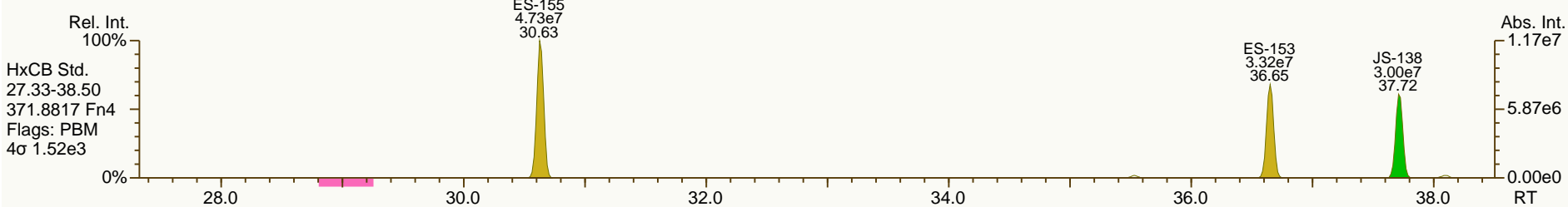
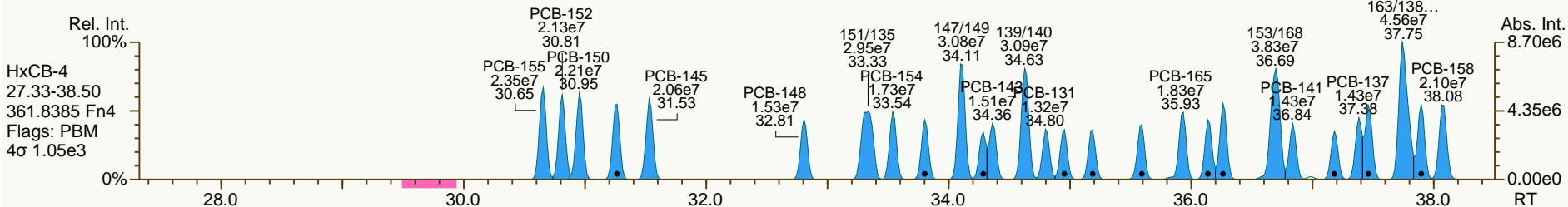
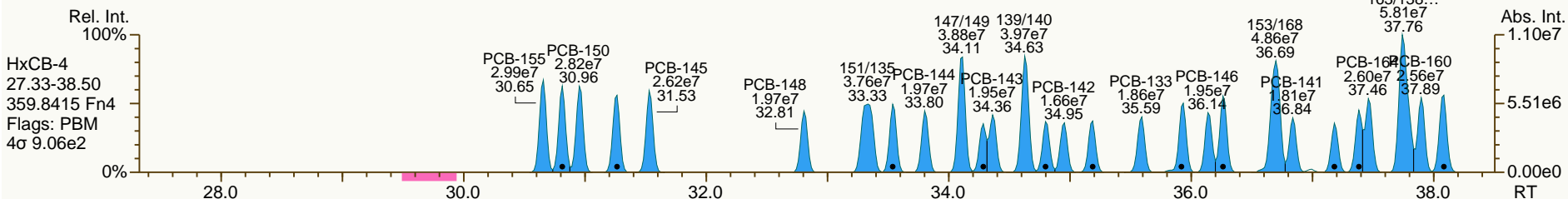
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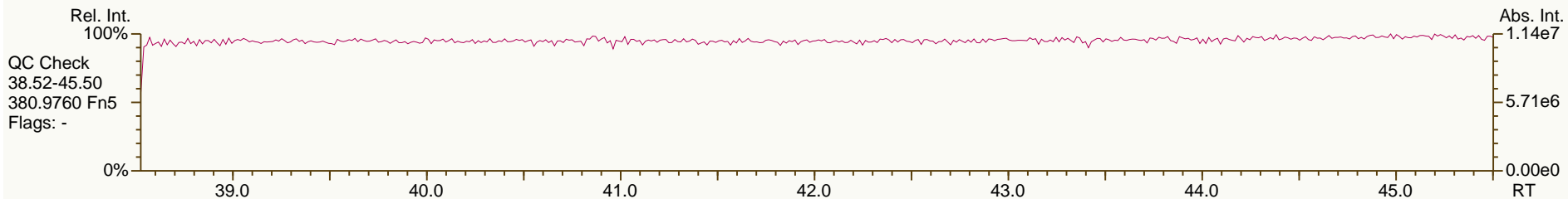
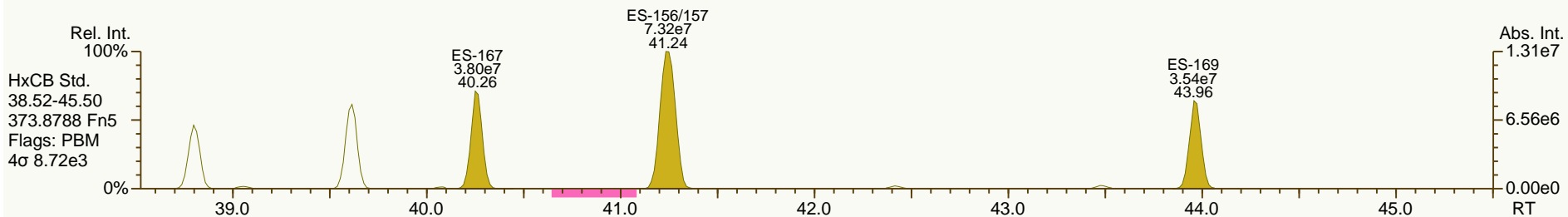
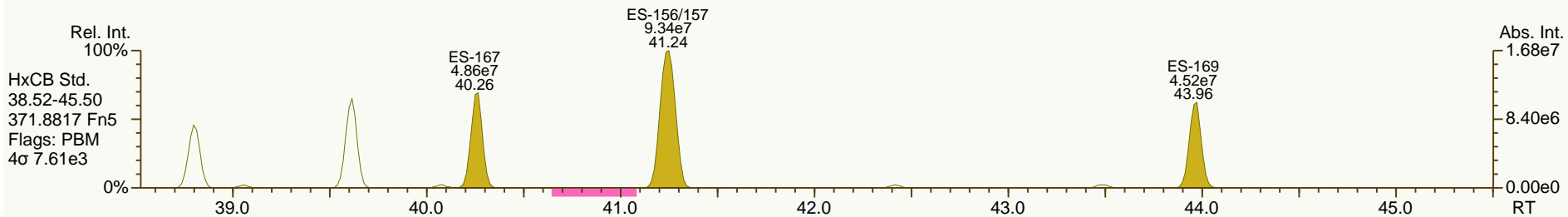
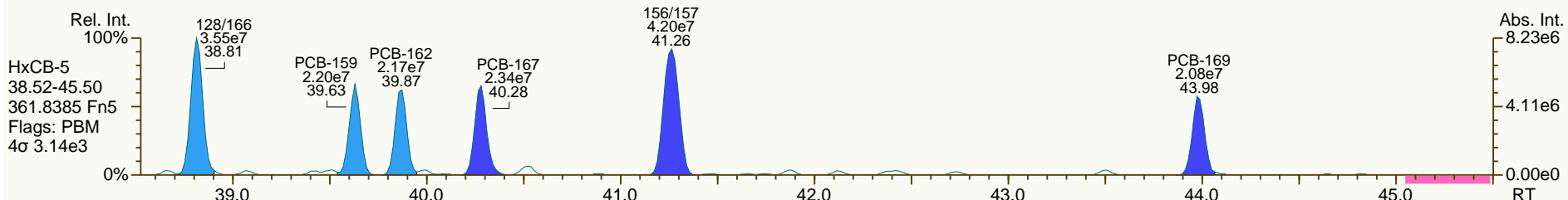
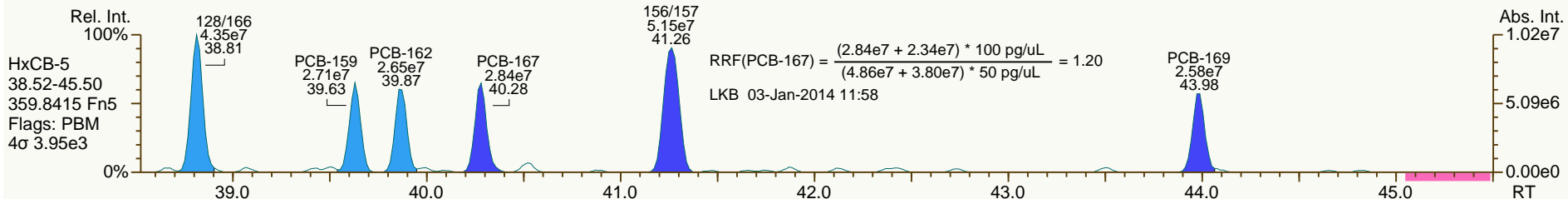
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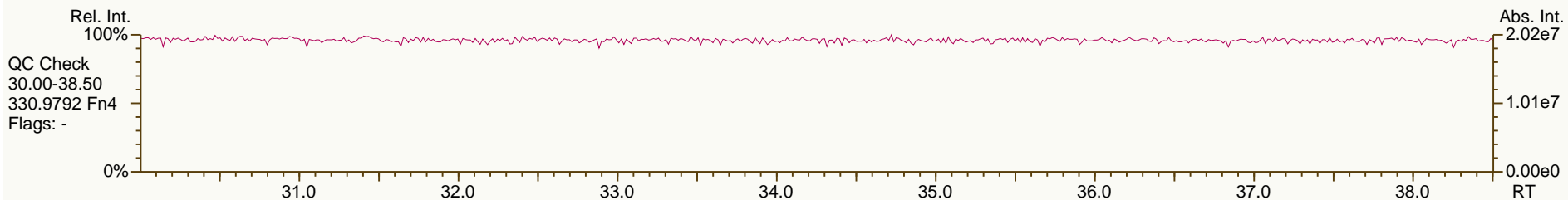
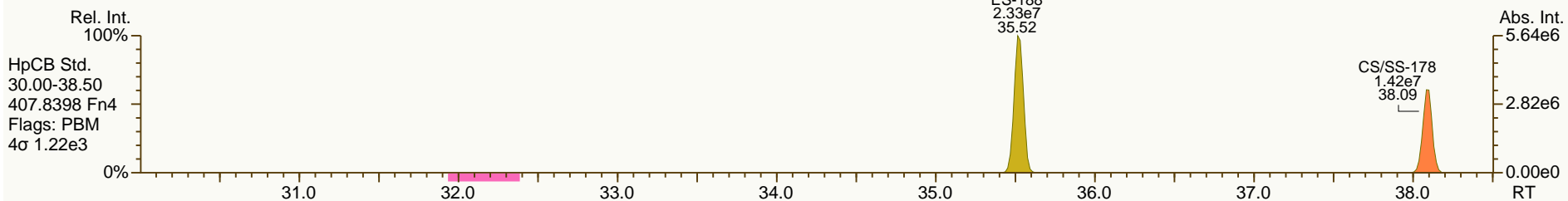
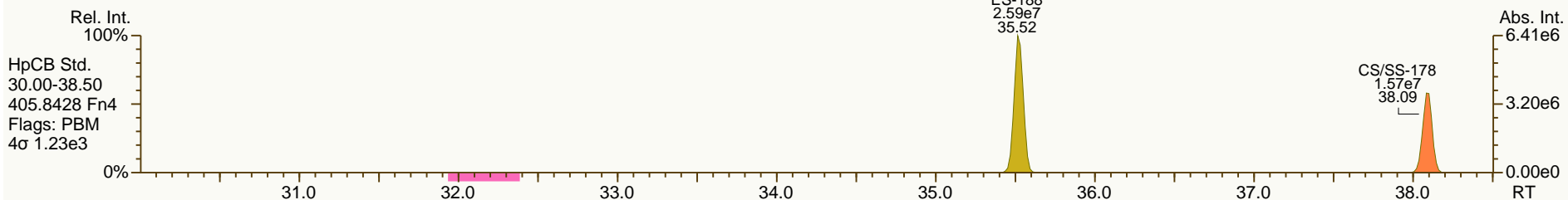
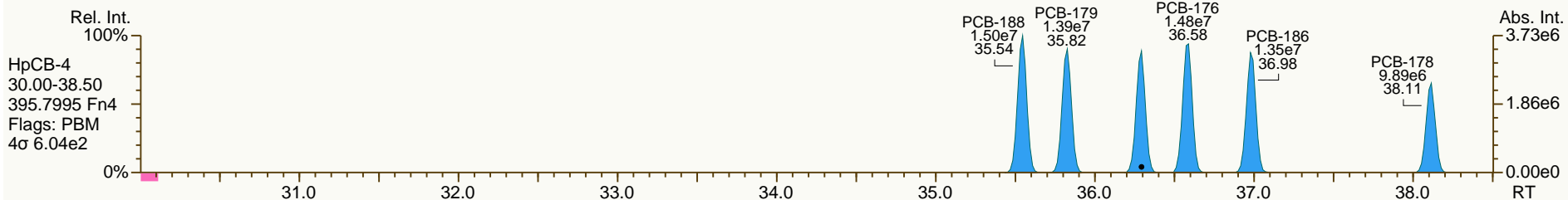
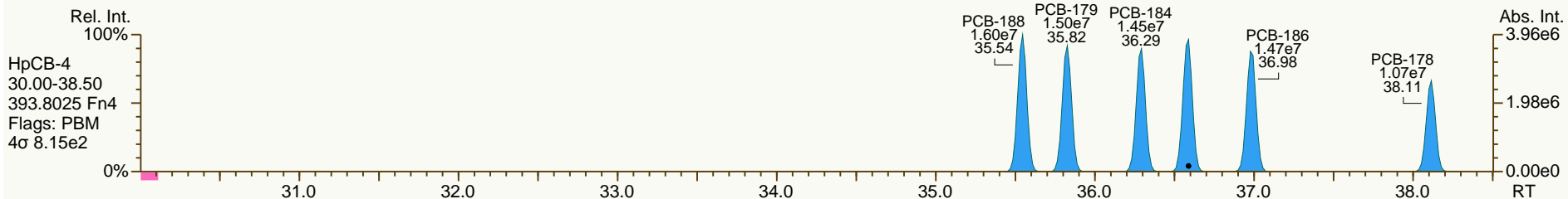
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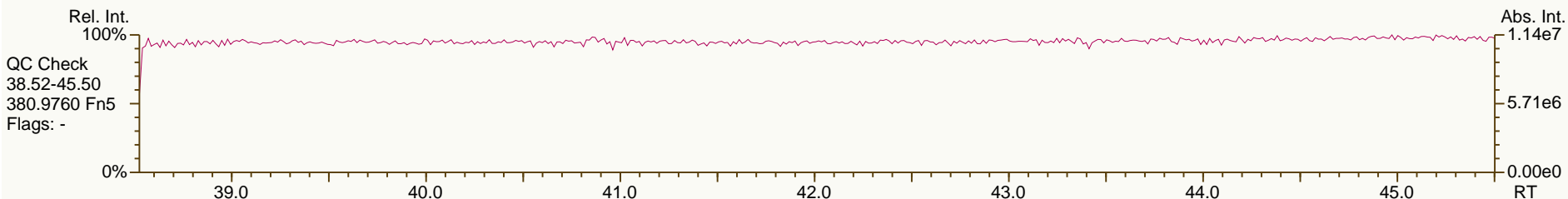
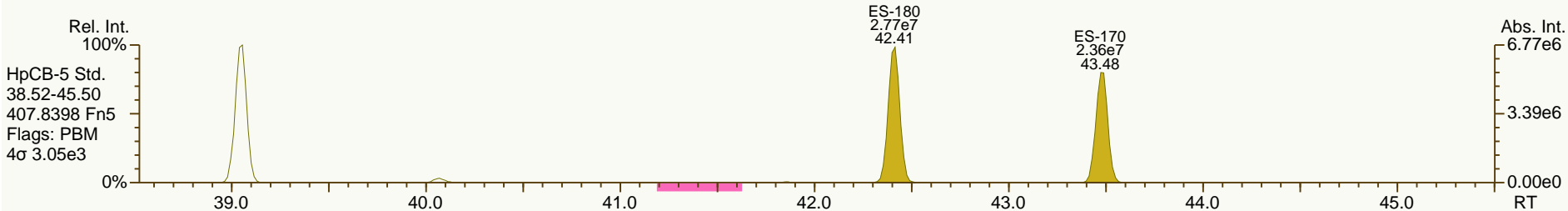
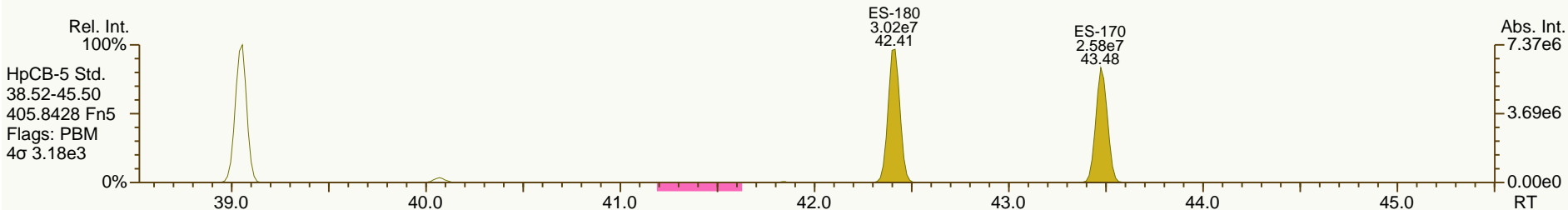
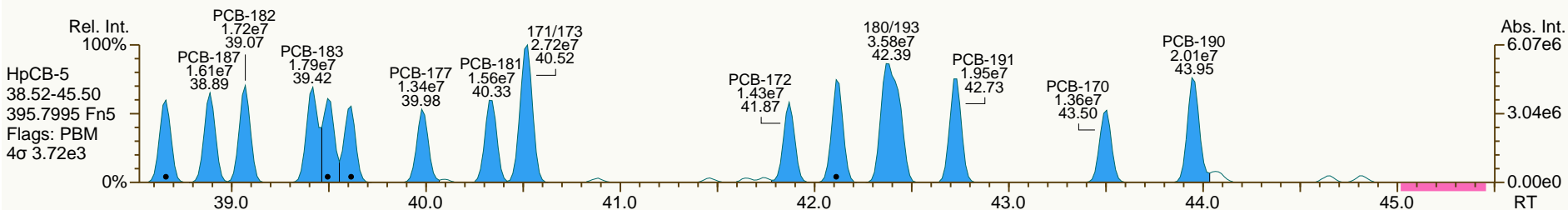
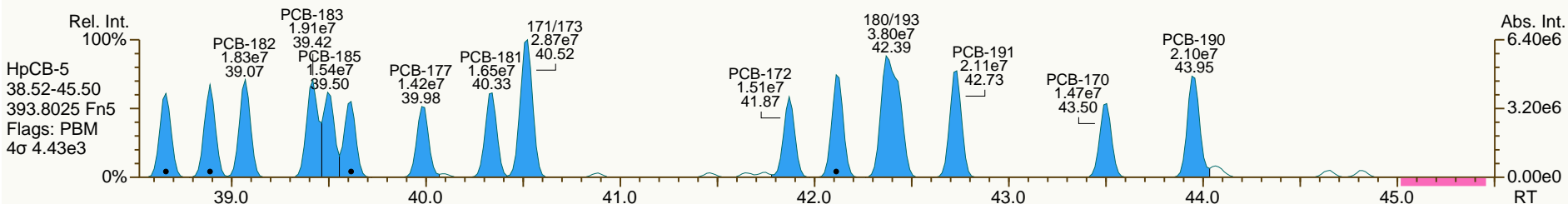
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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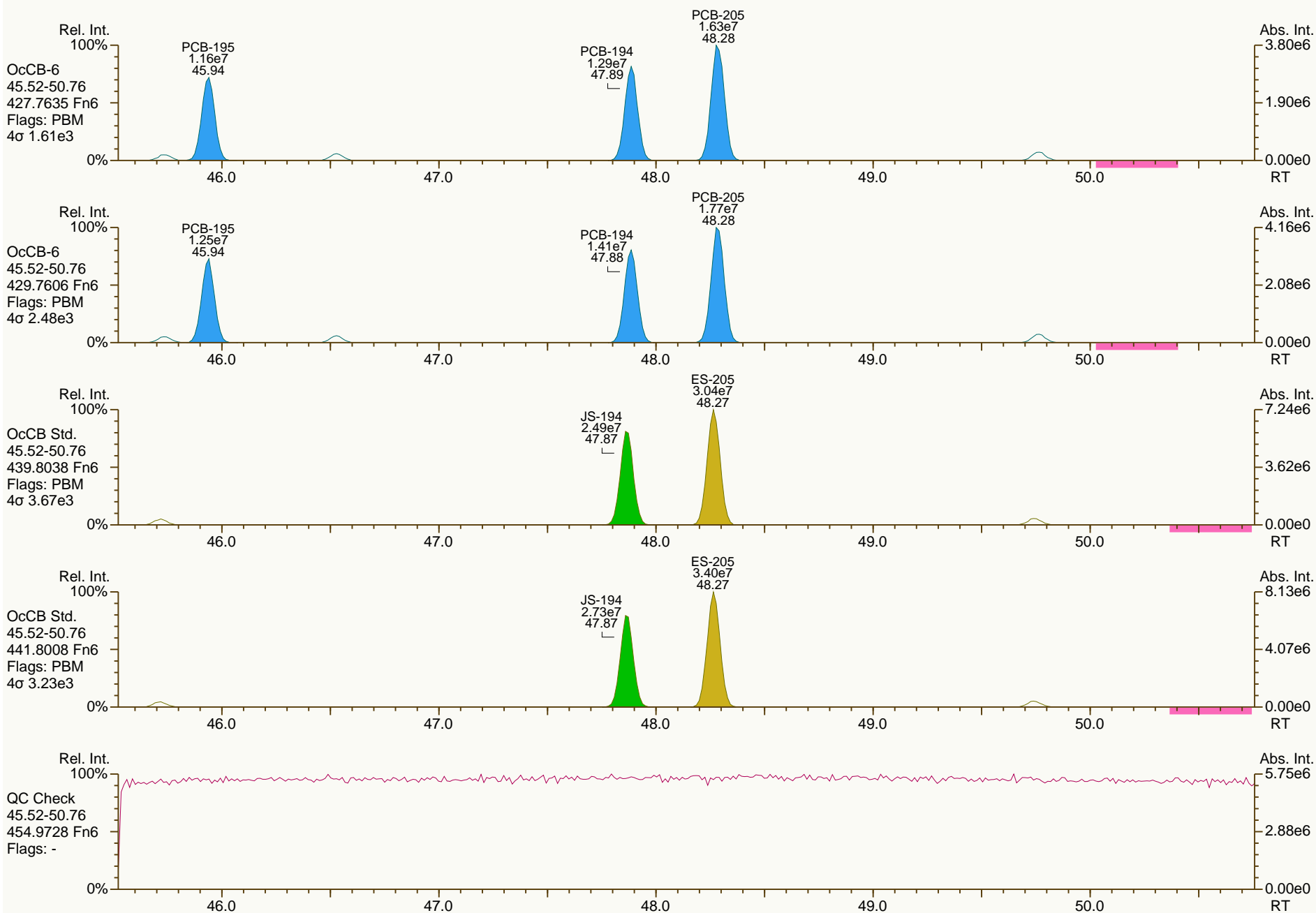




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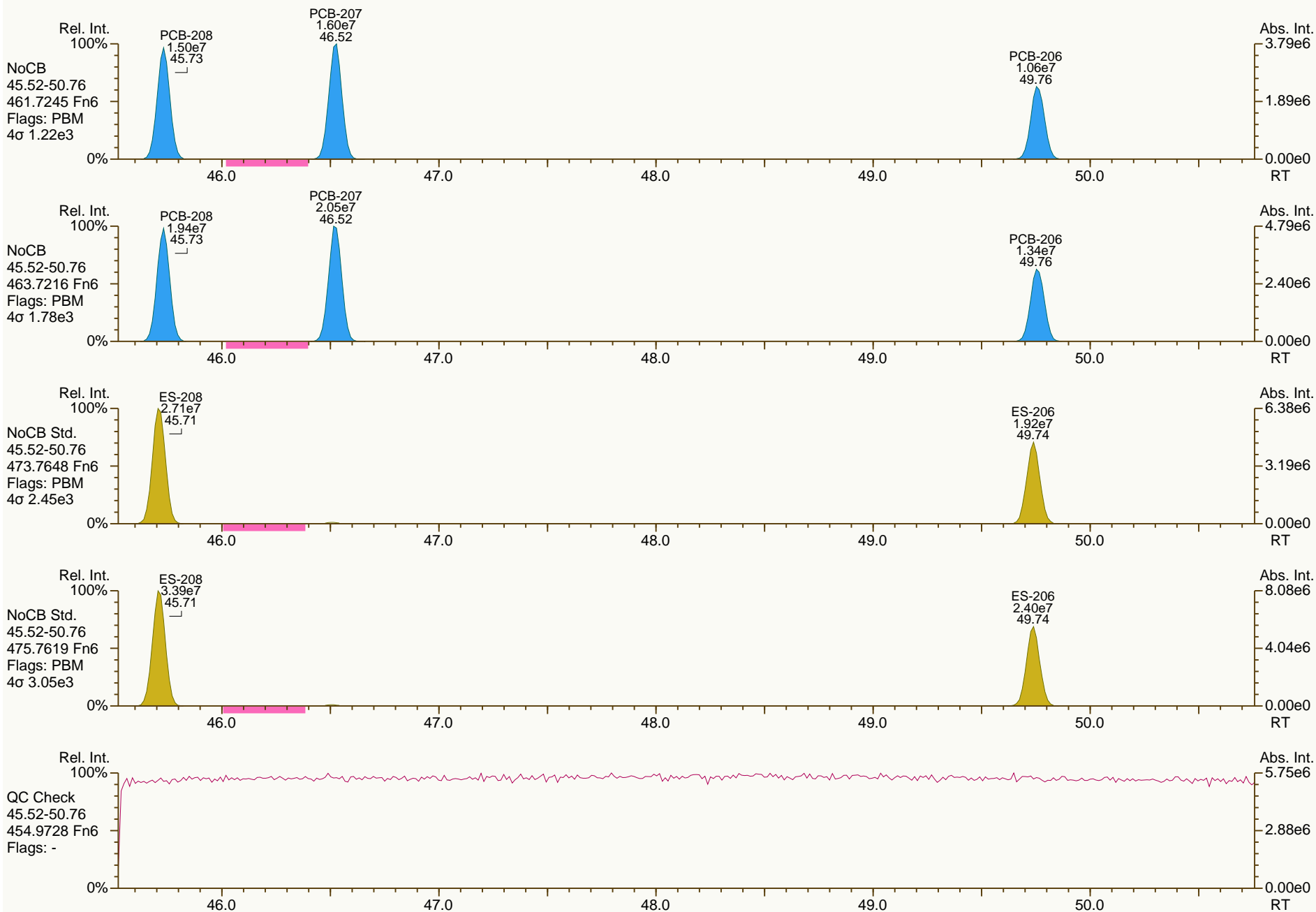
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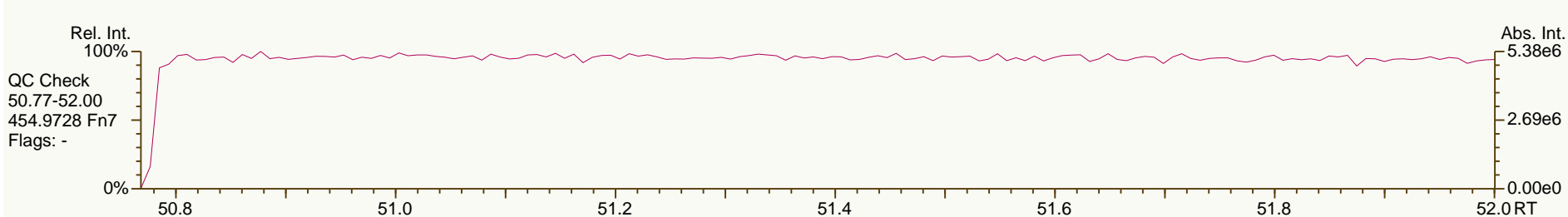
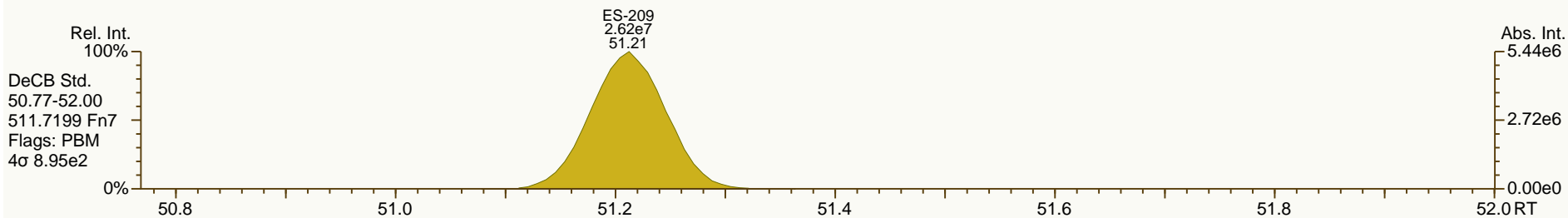
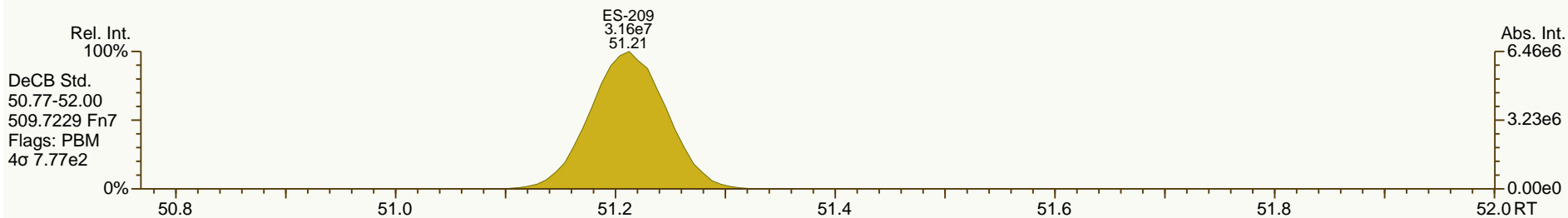
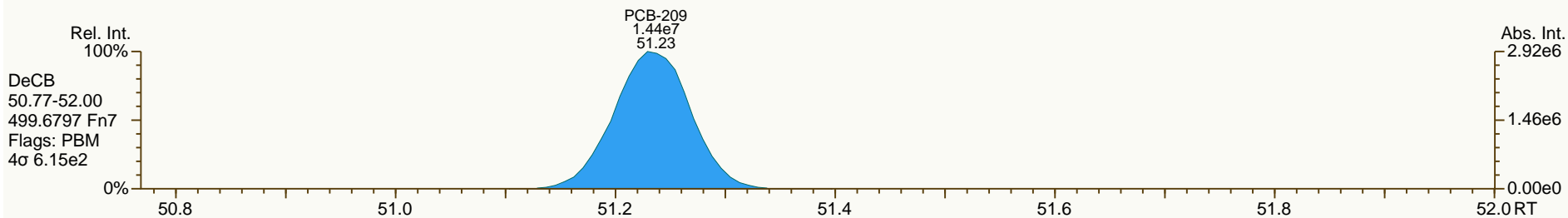
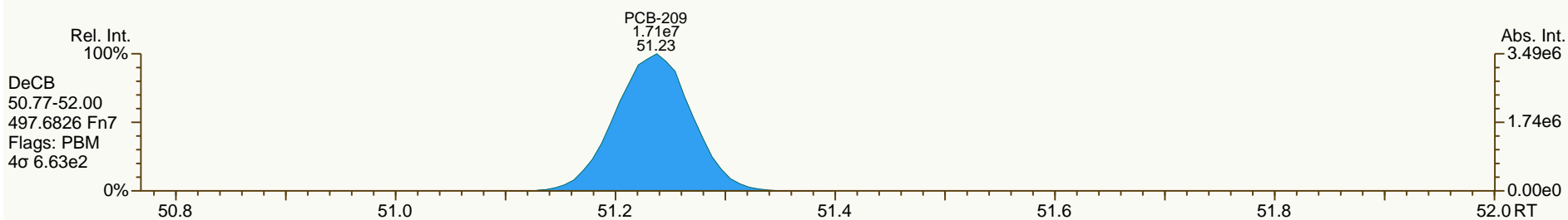
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

Acq: 20-Dec-2013 18:04:38  
User: LKB Datafile: 131220X05



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.61E+08	0.78 Y	1.15	1.17	1.7%	
PCB-81 344'5'-TeCB	32.62	6.42E+08	0.78 Y	1.12	1.14	1.9%	
PCB-105 233'44'-PeCB	36.10	5.26E+08	0.62 Y	1.11	1.15	3.3%	
PCB-114 2344'5'-PeCB	35.56	5.80E+08	0.63 Y	1.20	1.24	3.3%	
PCB-118 23'44'5'-PeCB	35.09	5.38E+08	0.62 Y	1.19	1.22	2.6%	
PCB-123 23'44'5'-PeCB	34.81	5.67E+08	0.62 Y	1.21	1.23	1.3%	
PCB-126 33'44'5'-PeCB	38.71	4.45E+08	0.63 Y	1.11	1.14	2.8%	
PCB-156/157 ...-HxCB	41.27	9.01E+08	1.22 Y	1.10	1.11	1.1%	
PCB-167 23'44'55'-HxCB	40.29	4.96E+08	1.23 Y	1.16	1.18	1.4%	
PCB-169 33'44'55'-HxCB	43.99	4.52E+08	1.24 Y	1.12	1.14	1.2%	
PCB-189 233'44'55'-HpCB	46.13	4.15E+08	1.05 Y	1.07	1.10	2.3%	
PCB-209 DeCB	51.25	2.92E+08	1.18 Y	1.11	1.10	-1.4%	
ES PCB-1	12.03	2.53E+08	3.29 Y	1.19	1.17	-1.5%	
ES PCB-3	14.35	2.32E+08	3.37 Y	1.09	1.08	-0.6%	
ES PCB-4	14.61	1.12E+08	1.64 Y	0.52	0.52	-0.1%	
ES PCB-15	20.37	2.25E+08	1.54 Y	1.04	1.05	0.6%	
ES PCB-19	17.72	1.10E+08	1.08 Y	0.51	0.51	0.9%	
ES PCB-37	26.73	1.69E+08	1.08 Y	1.66	1.66	-0.4%	
ES PCB-54	20.66	8.74E+07	0.83 Y	0.86	0.86	-0.5%	
ES PCB-77	33.08	1.41E+08	0.79 Y	1.38	1.38	0.0%	
ES PCB-81	32.61	1.41E+08	0.77 Y	1.37	1.38	1.1%	
ES PCB-104	25.66	7.69E+07	1.65 Y	0.80	0.79	-1.2%	
ES PCB-105	36.08	1.14E+08	1.60 Y	1.20	1.18	-1.7%	
ES PCB-114	35.54	1.17E+08	1.63 Y	1.22	1.21	-1.1%	
ES PCB-118	35.07	1.10E+08	1.63 Y	1.16	1.14	-1.8%	
ES PCB-123	34.79	1.15E+08	1.60 Y	1.19	1.19	0.4%	
ES PCB-126	38.70	9.79E+07	1.53 Y	1.03	1.01	-1.7%	
ES PCB-153	36.66	6.88E+07	1.31 Y	1.11	1.11	-0.6%	
ES PCB-155	30.64	9.70E+07	1.30 Y	1.59	1.56	-1.7%	
ES PCB-156/157	41.25	2.03E+08	1.29 Y	1.60	1.64	2.3%	
ES PCB-167	40.27	1.05E+08	1.27 Y	1.67	1.70	1.7%	
ES PCB-169	43.97	9.92E+07	1.27 Y	1.56	1.60	2.7%	
ES PCB-170	43.49	5.71E+07	1.09 Y	0.95	0.95	0.6%	
ES PCB-180	42.42	6.95E+07	1.09 Y	1.14	1.16	2.0%	
ES PCB-188	35.53	5.77E+07	1.13 Y	0.94	0.93	-1.0%	
ES PCB-189	46.11	9.44E+07	1.04 Y	1.58	1.57	-0.5%	
ES PCB-202	40.08	6.04E+07	0.94 Y	0.97	0.97	0.4%	
ES PCB-205	48.28	7.51E+07	0.90 Y	1.24	1.25	0.7%	
ES PCB-206	49.75	5.00E+07	0.81 Y	0.83	0.83	0.6%	
ES PCB-208	45.72	7.07E+07	0.80 Y	1.17	1.18	0.4%	
ES PCB-209	51.22	6.66E+07	1.18 Y	1.11	1.11	0.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.88E+08	1.09 Y	1.11	1.11	0.2%	
SS PCB-111	33.10	1.16E+08	1.60 Y	1.03	1.00	-2.6%	
SS PCB-178	38.10	3.54E+07	1.11 Y	0.62	0.61	-1.0%	
CS PCB-28	23.16	1.88E+08	1.09 Y	1.85	1.84	-0.1%	
CS PCB-111	33.10	1.16E+08	1.60 Y	1.22	1.19	-2.2%	
CS PCB-178	38.10	3.54E+07	1.11 Y	0.58	0.57	-2.0%	
JS PCB-9	16.61	2.15E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.02E+08	0.80 Y	-	-	-	
JS PCB-101	30.80	9.69E+07	1.60 Y	-	-	-	
JS PCB-138	37.72	6.21E+07	1.30 Y	-	-	-	
JS PCB-194	47.88	6.00E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

PCB QC Summary - Ax2 Detail					Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-2 3-MoCB	14.18	1.00E+09	3.28 Y	1.03	1.08	4.2%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-10 26'-DiCB	14.80	9.17E+08	1.60 Y	1.98	2.04	3.1%	
PCB-9 25'-DiCB	16.62	8.62E+08	1.63 Y	0.95	0.96	1.3%	
PCB-7 24'-DiCB	16.79	9.69E+08	1.64 Y	1.05	1.08	2.9%	
PCB-6 23'-DiCB	17.02	9.24E+08	1.65 Y	1.00	1.03	3.0%	
PCB-5 23'-DiCB	17.32	9.17E+08	1.63 Y	1.00	1.02	1.7%	
PCB-8 24'-DiCB	17.44	9.28E+08	1.63 Y	1.03	1.03	-0.2%	
PCB-14 35'-DiCB	19.01	1.09E+09	1.64 Y	1.18	1.21	2.2%	
PCB-11 33'-DiCB	19.80	9.34E+08	1.64 Y	1.01	1.04	2.7%	
PCB-13/12 34'/34'-DiCB	20.10	1.86E+09	1.64 Y	0.99	1.03	4.5%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.39E+09	1.05 Y	1.54	1.59	3.3%	
PCB-17 22'4'-TrCB	19.92	5.88E+08	1.05 Y	1.31	1.34	2.6%	
PCB-27 23'6'-TrCB	20.11	8.20E+08	1.05 Y	1.82	1.87	2.8%	
PCB-24 236'-TrCB	20.25	7.60E+08	1.05 Y	1.72	1.73	0.5%	
PCB-16 22'3'-TrCB	20.34	4.62E+08	1.06 Y	1.01	1.05	4.7%	
PCB-32 24'6'-TrCB	20.83	8.47E+08	1.05 Y	1.92	1.93	0.6%	
PCB-34 23'5'-TrCB	21.98	7.98E+08	0.99 Y	1.14	1.18	4.1%	
PCB-23 235'-TrCB	22.14	8.06E+08	0.98 Y	1.16	1.19	3.3%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.63E+09	0.98 Y	1.17	1.21	2.9%	
PCB-25 23'4'-TrCB	22.62	8.00E+08	0.97 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.90	8.40E+08	0.97 Y	1.23	1.24	1.5%	
PCB-28/20 244'/233'-TrCB	23.19	1.58E+09	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.37	1.64E+09	0.99 Y	1.17	1.21	3.3%	
PCB-22 234'-TrCB	23.75	7.44E+08	0.99 Y	1.08	1.10	2.0%	
PCB-36 33'5'-TrCB	25.14	8.17E+08	0.99 Y	1.17	1.21	3.4%	
PCB-39 34'5'-TrCB	25.46	8.41E+08	0.98 Y	1.21	1.25	2.8%	
PCB-38 345'-TrCB	25.99	7.83E+08	0.99 Y	1.10	1.16	4.9%	
PCB-35 33'4'-TrCB	26.39	7.26E+08	0.99 Y	1.04	1.07	3.4%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.00E+09	0.79 Y	0.88	0.89	1.4%	
PCB-45 22'36'-TeCB	23.27	4.42E+08	0.78 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.34	4.96E+08	0.80 Y	0.86	0.88	2.5%	
PCB-46 22'36'-TeCB	23.55	3.98E+08	0.79 Y	0.70	0.71	1.0%	
PCB-52 22'55'-TeCB	24.81	4.82E+08	0.79 Y	0.84	0.85	1.3%	
PCB-73 23'5'6'-TeCB	24.94	6.34E+08	0.78 Y	1.11	1.12	1.1%	
PCB-43 22'35'-TeCB	25.04	4.03E+08	0.80 Y	0.71	0.72	0.7%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.18E+09	0.79 Y	1.02	1.05	2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	4.79E+08	0.79 Y	0.84	0.85	1.4%	
PCB-44/47/65 ...-TeCB	25.74	1.57E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.01	2.05E+09	0.79 Y	1.17	1.22	4.3%	
PCB-42 22'34'-TeCB	26.18	4.36E+08	0.79 Y	0.76	0.77	1.5%	
PCB-41 22'34'-TeCB	26.51	3.81E+08	0.78 Y	0.69	0.68	-2.7%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.02E+09	0.80 Y	0.86	0.90	4.9%	
PCB-64 234'6'-TeCB	26.81	7.02E+08	0.79 Y	1.22	1.25	2.0%	
PCB-72 23'55'-TeCB	27.53	6.86E+08	0.78 Y	1.21	1.22	0.7%	
PCB-68 23'45'-TeCB	27.78	7.41E+08	0.78 Y	1.28	1.31	2.9%	
PCB-57 233'5'-TeCB	28.16	6.53E+08	0.78 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.36	6.72E+08	0.78 Y	1.18	1.19	1.1%	
PCB-67 23'45'-TeCB	28.52	7.17E+08	0.78 Y	1.26	1.27	1.1%	
PCB-63 234'5'-TeCB	28.75	7.44E+08	0.78 Y	1.30	1.32	1.7%	
PCB-61/70/74/76 ...-TeCB	29.04	2.76E+09	0.78 Y	1.20	1.22	2.2%	
PCB-66 23'44'-TeCB	29.32	6.42E+08	0.78 Y	1.10	1.14	3.3%	
PCB-55 233'4'-TeCB	29.47	6.33E+08	0.78 Y	1.12	1.12	0.3%	
PCB-56 233'4'-TeCB	29.91	6.29E+08	0.78 Y	1.11	1.12	0.6%	
PCB-60 2344'-TeCB	30.10	6.41E+08	0.78 Y	1.14	1.14	0.2%	
PCB-80 33'55'-TeCB	30.43	7.47E+08	0.78 Y	1.31	1.32	0.9%	
PCB-79 33'45'-TeCB	31.75	7.60E+08	0.78 Y	1.31	1.35	3.2%	
PCB-78 33'45'-TeCB	32.25	6.10E+08	0.78 Y	1.06	1.08	1.9%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-96 22'366'-PeCB	26.00	3.93E+08	0.65 Y	1.23	1.28	3.9%	
PCB-103 22'45'6'-PeCB	27.70	4.37E+08	0.62 Y	0.93	0.95	1.6%	
PCB-94 22'356'-PeCB	27.89	3.75E+08	0.62 Y	0.80	0.81	1.6%	
PCB-95 22'35'6'-PeCB	28.27	4.04E+08	0.62 Y	0.87	0.87	0.9%	
PCB-100/93 22'44'6/22'356'-PeCB	28.49	8.29E+08	0.62 Y	0.86	0.90	3.9%	
PCB-102 22'456'-PeCB	28.60	4.01E+08	0.62 Y	0.97	0.87	-10.2%	
PCB-98 22'34'6'-PeCB	28.67	3.96E+08	0.62 Y	0.76	0.86	13.2%	
PCB-88 22'346'-PeCB	28.98	3.93E+08	0.62 Y	0.80	0.85	6.8%	
PCB-91 22'34'6'-PeCB	29.04	4.40E+08	0.63 Y	0.94	0.95	0.9%	
PCB-84 22'33'6'-PeCB	29.23	3.38E+08	0.63 Y	0.72	0.73	2.3%	
PCB-89 22'346'-PeCB	29.65	3.62E+08	0.62 Y	0.76	0.78	2.8%	
PCB-121 23'45'6'-PeCB	29.99	5.66E+08	0.62 Y	1.20	1.23	2.2%	
PCB-92 22'355'-PeCB	30.31	3.81E+08	0.62 Y	0.82	0.83	0.7%	
PCB-113/90/101 ...-PeCB	30.80	1.39E+09	0.62 Y	0.99	1.01	2.0%	
PCB-83 22'33'5'-PeCB	31.24	3.22E+08	0.62 Y	0.71	0.70	-2.5%	
PCB-99 22'44'5'-PeCB	31.34	4.51E+08	0.62 Y	0.92	0.98	6.1%	
PCB-112 233'56'-PeCB	31.44	5.42E+08	0.62 Y	1.17	1.17	0.5%	
PCB-108/119/86/97/125...-PeCB	31.78	2.82E+09	0.63 Y	0.98	1.02	3.8%	
PCB-117 234'56'-PeCB	32.32	5.03E+08	0.62 Y	1.14	1.09	-4.3%	
PCB-116/85 23456/22'344'-PeCB	32.41	9.15E+08	0.62 Y	0.94	0.99	5.3%	
PCB-110 233'4'6'-PeCB	32.53	5.11E+08	0.62 Y	1.12	1.11	-1.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.34E+08	0.63 Y	1.16	1.16	-0.2%	
PCB-82 22'33'4-PeCB	32.81	3.31E+08	0.62 Y	0.70	0.72	3.0%	
PCB-111 233'55'-PeCB	33.12	5.66E+08	0.62 Y	1.22	1.23	0.5%	
PCB-120 23'455'-PeCB	33.52	5.76E+08	0.62 Y	1.21	1.25	2.9%	
PCB-107/124 ...-PeCB	34.49	1.03E+09	0.62 Y	1.10	1.12	2.0%	
PCB-109 233'46-PeCB	34.70	5.82E+08	0.62 Y	1.25	1.26	0.6%	
PCB-106 233'45-PeCB	34.92	5.22E+08	0.62 Y	1.11	1.13	2.4%	
PCB-122 233'4'5'-PeCB	35.38	4.75E+08	0.63 Y	0.99	1.02	2.2%	
PCB-127 33'455'-PeCB	37.34	5.12E+08	0.63 Y	1.10	1.12	2.2%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-152 22'3566'-HxCB	30.82	4.78E+08	1.27 Y	1.17	1.23	5.1%	
PCB-150 22'34'66'-HxCB	30.96	4.68E+08	1.27 Y	1.18	1.21	2.7%	
PCB-136 22'33'66'-HxCB	31.27	4.35E+08	1.27 Y	1.07	1.12	5.1%	
PCB-145 22'3466'-HxCB	31.54	4.41E+08	1.27 Y	1.11	1.14	2.1%	
PCB-148 22'34'56'-HxCB	32.82	3.38E+08	1.27 Y	1.18	1.23	3.8%	
PCB-151/135 ...-HxCB	33.34	6.39E+08	1.28 Y	1.14	1.16	1.9%	
PCB-154 22'44'56'-HxCB	33.55	3.76E+08	1.27 Y	1.34	1.37	1.9%	
PCB-144 22'345'6'-HxCB	33.81	3.29E+08	1.28 Y	1.18	1.20	1.2%	
PCB-147/149 ...-HxCB	34.11	6.68E+08	1.27 Y	1.18	1.21	3.2%	
PCB-134 22'33'56'-HxCB	34.29	2.65E+08	1.26 Y	0.92	0.96	4.4%	
PCB-143 22'3456'-HxCB	34.37	3.08E+08	1.28 Y	1.13	1.12	-1.0%	
PCB-139/140 ...-HxCB	34.64	6.80E+08	1.27 Y	1.21	1.24	2.6%	
PCB-131 22'33'46'-HxCB	34.81	2.87E+08	1.28 Y	1.03	1.04	1.8%	
PCB-142 22'3456'-HxCB	34.96	2.82E+08	1.29 Y	0.99	1.03	3.6%	
PCB-132 22'33'46'-HxCB	35.19	2.84E+08	1.30 Y	1.03	1.03	0.3%	
PCB-133 22'33'55'-HxCB	35.59	3.19E+08	1.28 Y	1.13	1.16	2.4%	
PCB-165 233'55'6'-HxCB	35.94	3.83E+08	1.28 Y	1.41	1.39	-1.3%	
PCB-146 22'34'55'-HxCB	36.15	3.42E+08	1.27 Y	1.20	1.24	3.4%	
PCB-161 233'45'6'-HxCB	36.27	4.26E+08	1.28 Y	1.52	1.55	1.8%	
PCB-153/168 ...-HxCB	36.70	8.26E+08	1.27 Y	1.46	1.50	3.0%	
PCB-141 22'3455'-HxCB	36.85	3.01E+08	1.29 Y	1.09	1.10	0.7%	
PCB-130 22'33'45'-HxCB	37.19	2.69E+08	1.27 Y	0.97	0.98	0.6%	
PCB-137 22'344'5'-HxCB	37.39	3.35E+08	1.27 Y	1.16	1.22	4.6%	
PCB-164 233'4'5'6'-HxCB	37.47	4.16E+08	1.29 Y	1.50	1.51	0.9%	
PCB-163/138/129 ...-HxCB	37.76	1.01E+09	1.27 Y	1.19	1.23	3.3%	
PCB-160 233'456'-HxCB	37.90	4.29E+08	1.27 Y	1.52	1.56	2.8%	
PCB-158 233'44'6'-HxCB	38.09	4.60E+08	1.28 Y	1.66	1.67	0.5%	
PCB-128/166 ...-HxCB	38.82	7.86E+08	1.23 Y	0.90	0.93	3.7%	
PCB-159 233'455'-HxCB	39.64	4.70E+08	1.23 Y	1.11	1.12	0.1%	
PCB-162 233'4'55'-HxCB	39.88	4.62E+08	1.22 Y	1.07	1.10	2.4%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-179 22'33'566'-HpCB	35.83	2.67E+08	1.10 Y	1.16	1.16	-0.3%	
PCB-184 22'344'66'-HpCB	36.30	2.61E+08	1.09 Y	1.13	1.13	0.2%	

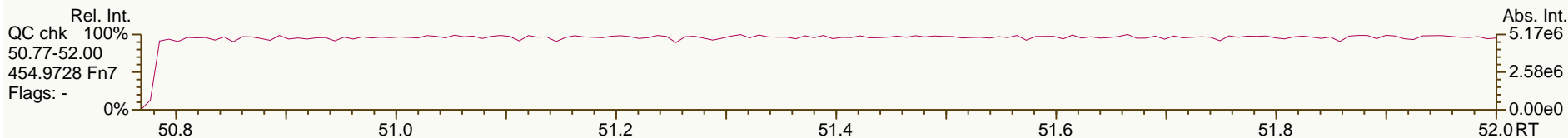
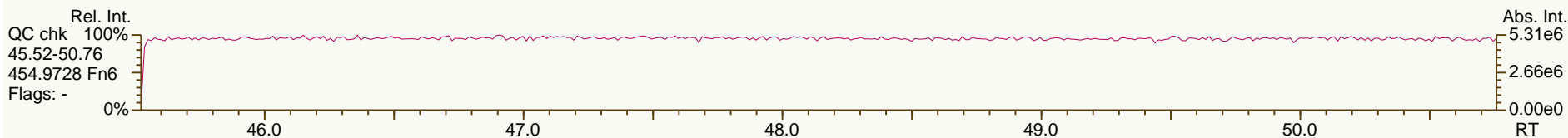
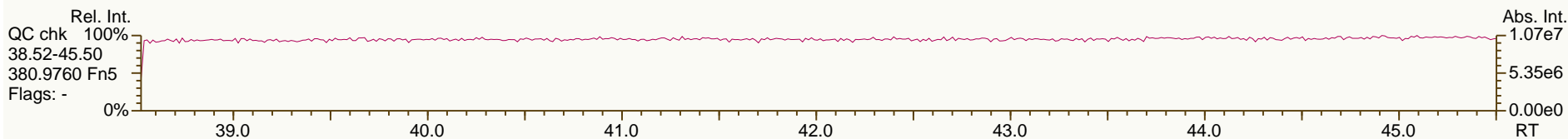
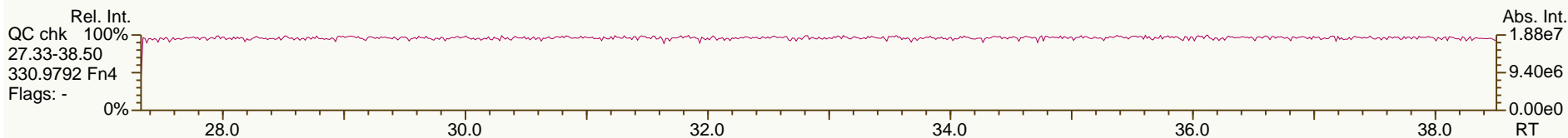
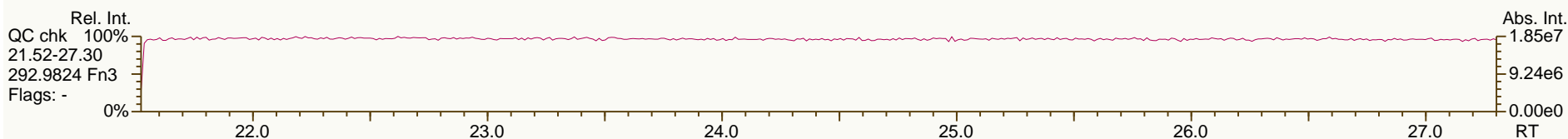
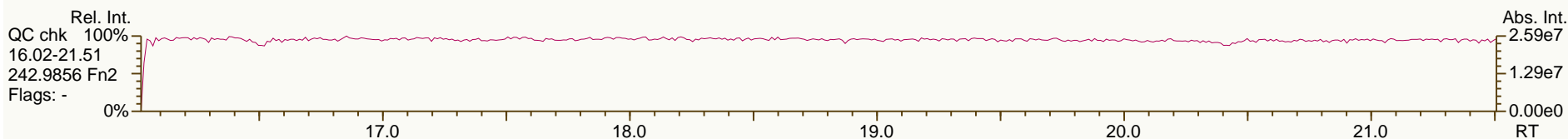
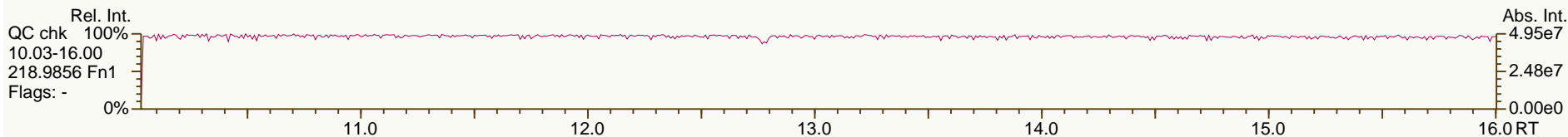


PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	2.85E+08	1.09 Y	1.23	1.24	0.3%	
PCB-186 22'34566'-HpCB	36.99	2.59E+08	1.08 Y	1.13	1.12	-0.3%	
PCB-178 22'33'55'6'-HpCB	38.12	1.94E+08	1.08 Y	0.84	0.84	-0.6%	
PCB-175 22'33'45'6'-HpCB	38.67	3.05E+08	1.06 Y	1.07	1.10	2.1%	
PCB-187 22'34'55'6'-HpCB	38.90	3.25E+08	1.06 Y	1.14	1.17	2.6%	
PCB-182 22'344'56'-HpCB	39.08	3.35E+08	1.06 Y	1.18	1.21	2.7%	
PCB-183 22'344'5'6'-HpCB	39.42	3.29E+08	1.05 Y	1.20	1.18	-1.8%	
PCB-185 22'3455'6'-HpCB	39.51	3.20E+08	1.06 Y	1.06	1.15	8.5%	
PCB-174 22'33'456'-HpCB	39.62	2.73E+08	1.06 Y	0.99	0.98	-0.9%	
PCB-177 22'33'45'6'-HpCB	39.99	2.68E+08	1.06 Y	0.95	0.96	1.4%	
PCB-181 22'344'56'-HpCB	40.34	3.10E+08	1.06 Y	1.09	1.12	2.5%	
PCB-171/173 ...-HpCB	40.53	5.43E+08	1.06 Y	0.95	0.98	3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.79E+08	1.06 Y	0.99	1.00	1.6%	
PCB-192 233'455'6'-HpCB	42.13	3.67E+08	1.06 Y	1.29	1.32	2.6%	
PCB-180/193 ...-HpCB	42.40	7.06E+08	1.06 Y	1.26	1.27	0.7%	
PCB-191 233'44'5'6'-HpCB	42.74	3.88E+08	1.06 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.51	2.72E+08	1.05 Y	1.14	1.19	4.9%	
PCB-190 233'44'56'-HpCB	43.96	3.86E+08	1.06 Y	1.66	1.69	1.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-201 22'33'45'66'-OcCB	40.89	3.08E+08	0.92 Y	1.22	1.27	4.3%	
PCB-204 22'344'566'-OcCB	41.47	2.70E+08	0.92 Y	1.12	1.12	0.3%	
PCB-197 22'33'44'66'-OcCB	41.66	2.93E+08	0.91 Y	1.19	1.21	1.7%	
PCB-200 22'33'4566'-OcCB	41.75	2.71E+08	0.92 Y	1.11	1.12	1.3%	
PCB-198/199 ...-OcCB	44.07	3.95E+08	0.91 Y	0.81	0.82	0.9%	
PCB-196 22'33'44'56'-OcCB	44.65	2.03E+08	0.92 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.82	2.13E+08	0.92 Y	0.87	0.88	1.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.31E+08	0.91 Y	0.77	0.77	0.4%	
PCB-194 22'33'44'55'-OcCB	47.90	2.54E+08	0.92 Y	0.84	0.85	0.4%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-207 22'33'44'566'-NoCB	46.53	3.40E+08	0.79 Y	1.19	1.20	1.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

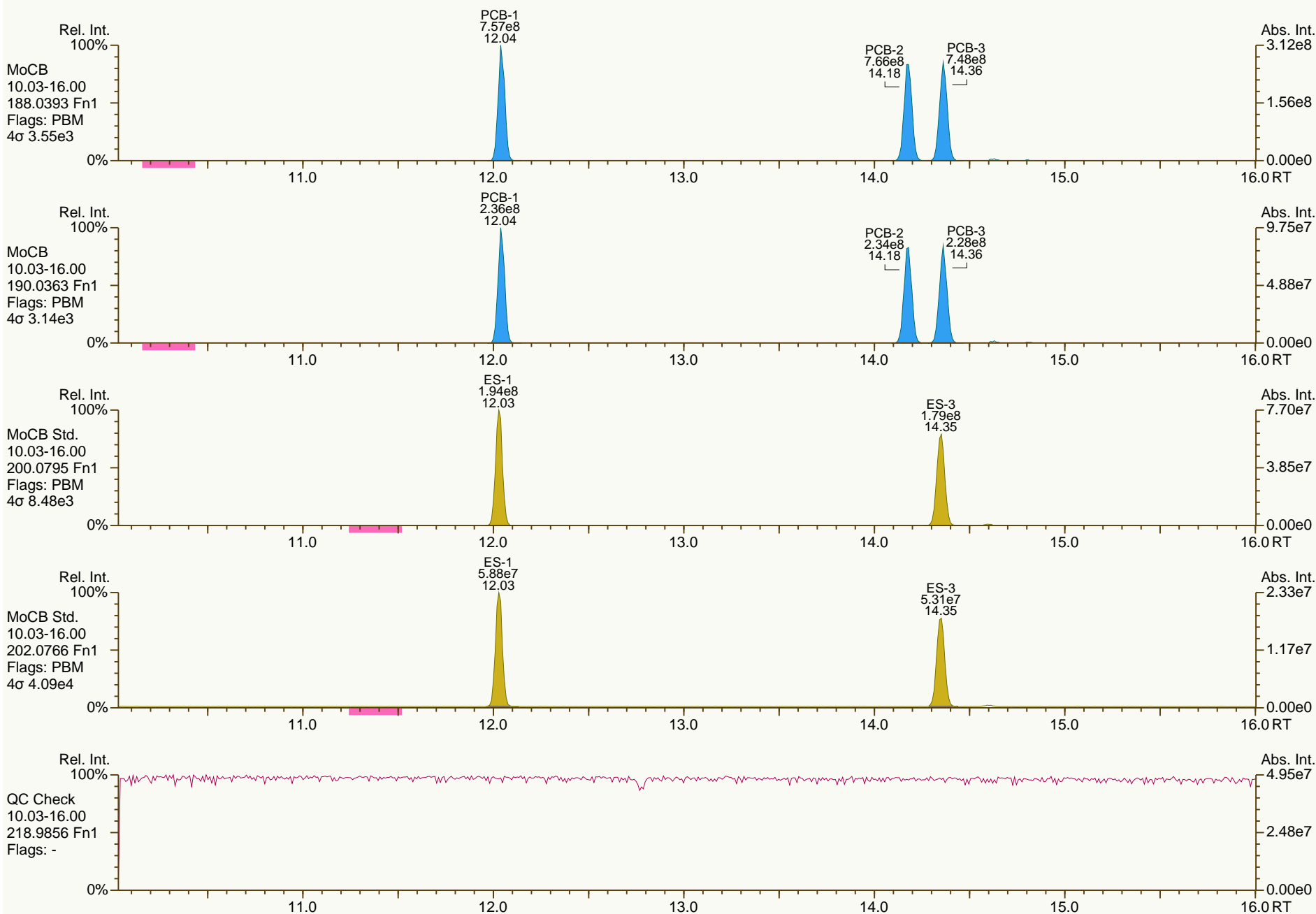
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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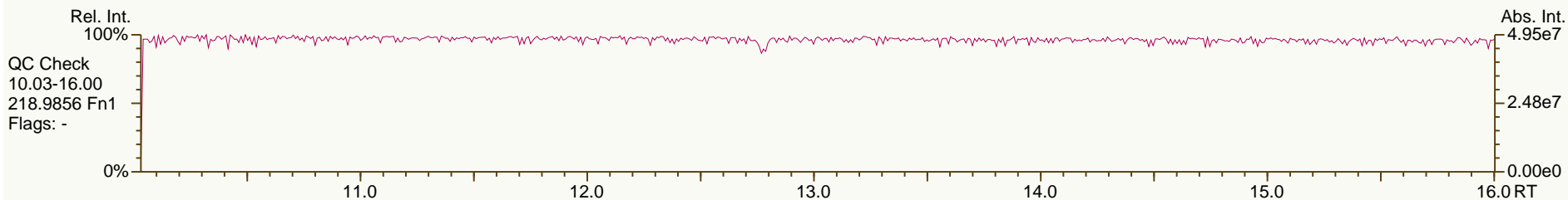
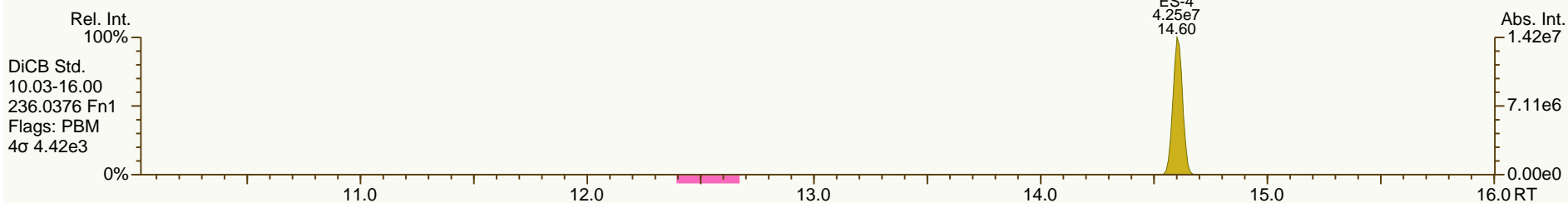
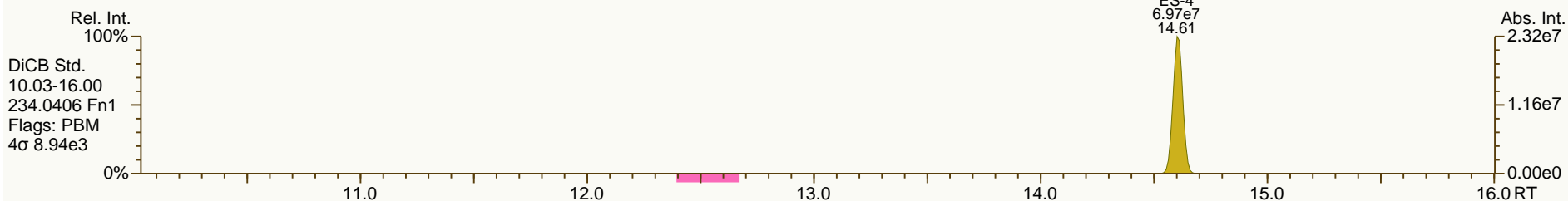
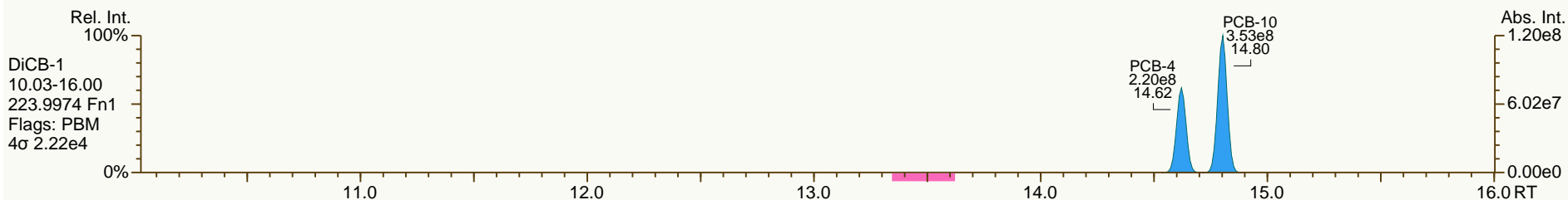
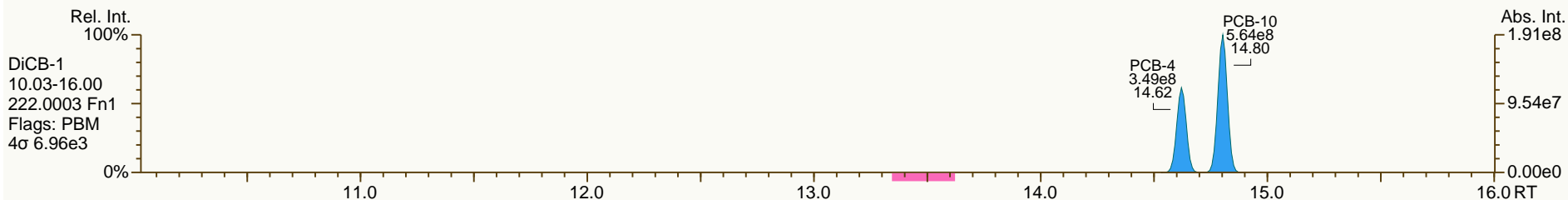
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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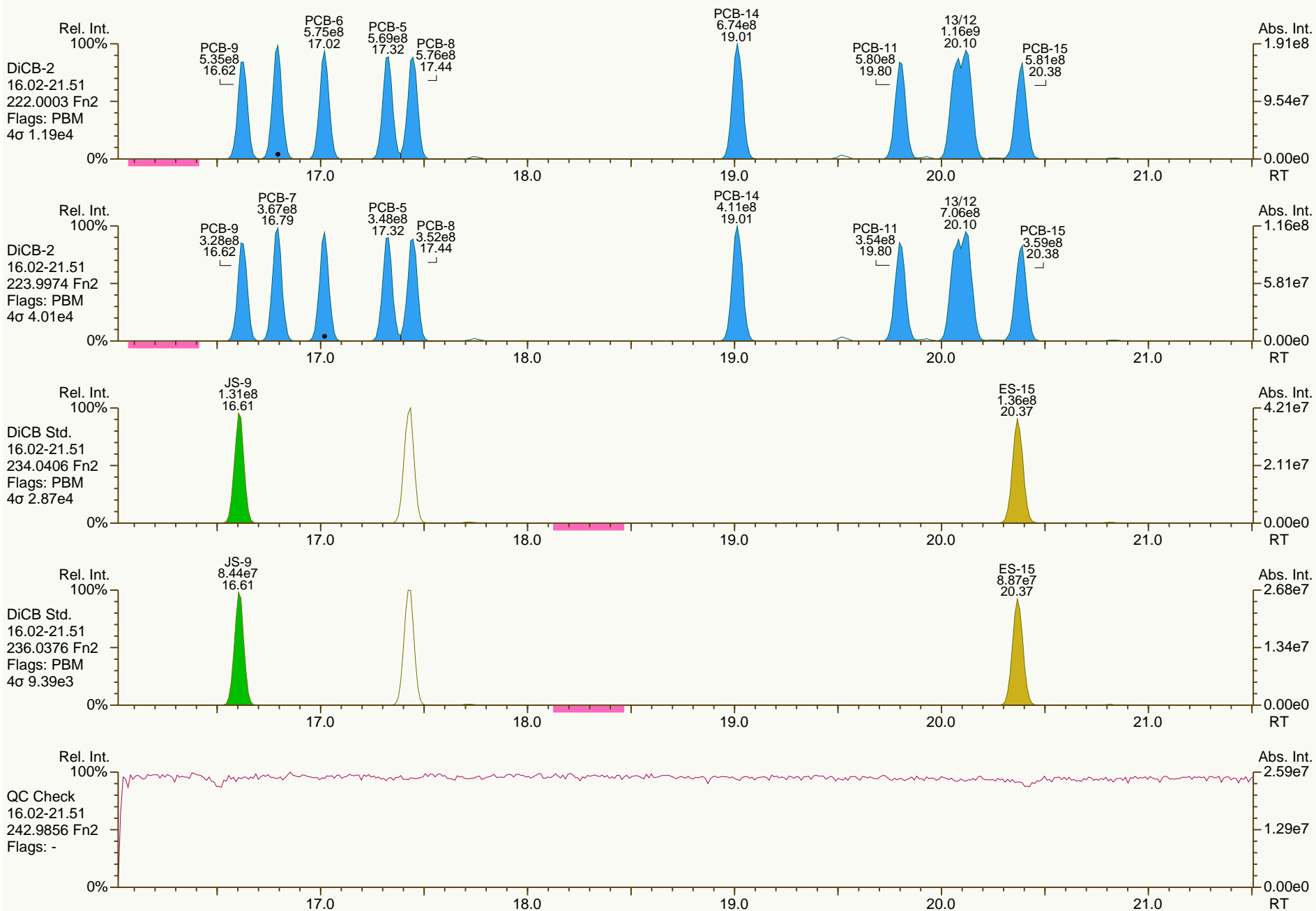
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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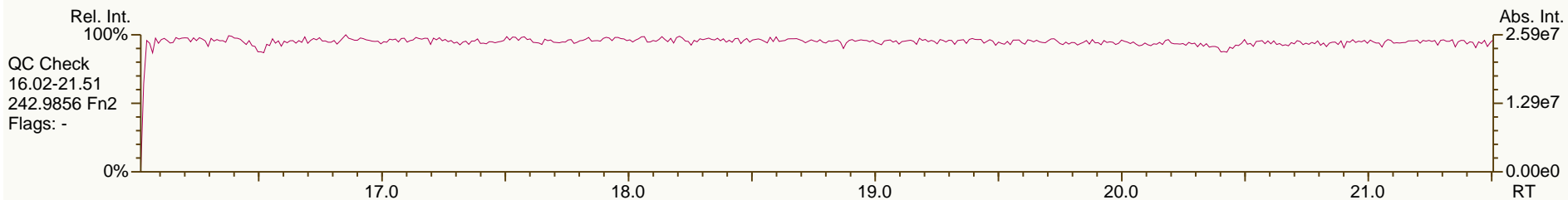
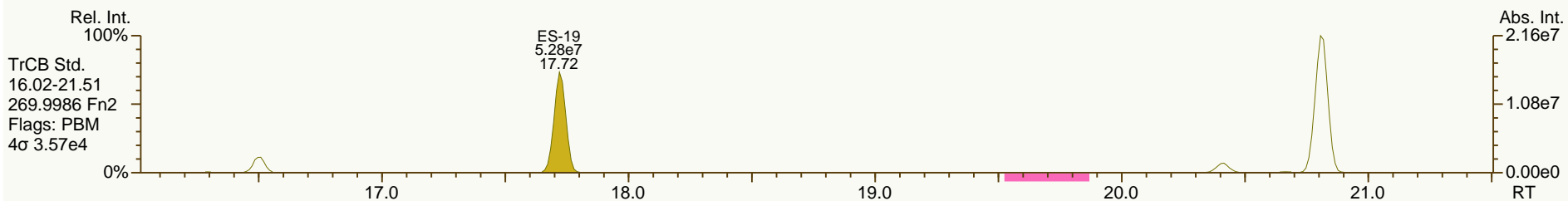
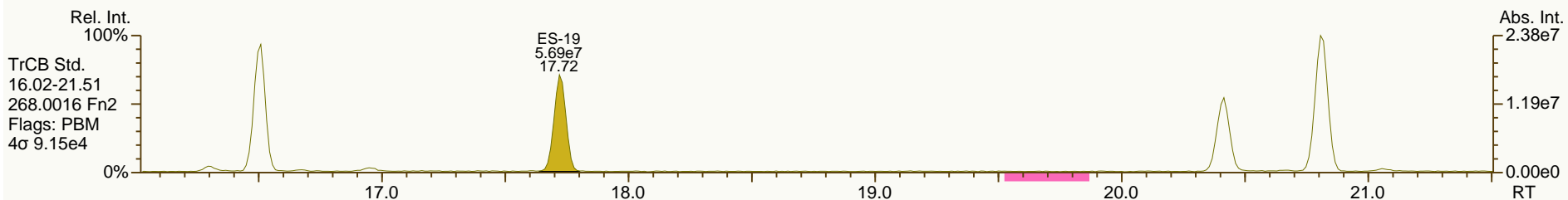
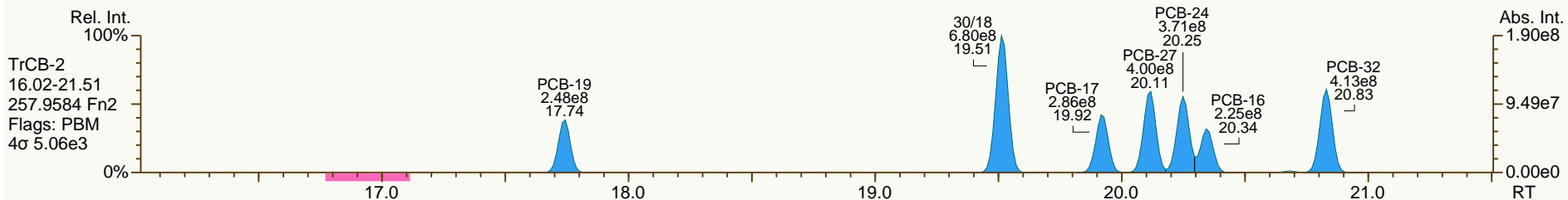
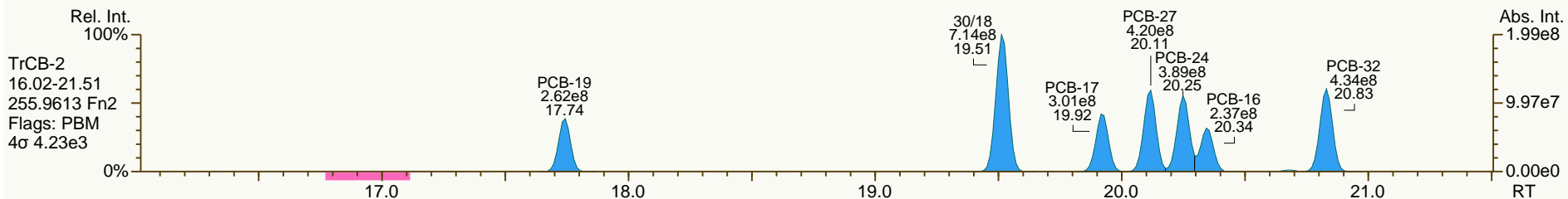
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

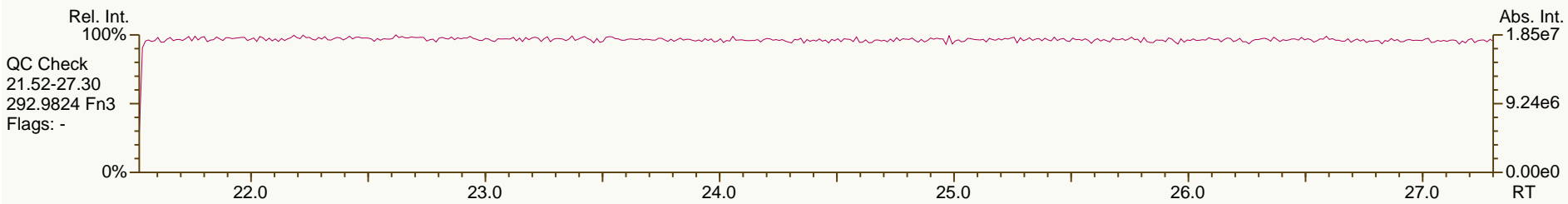
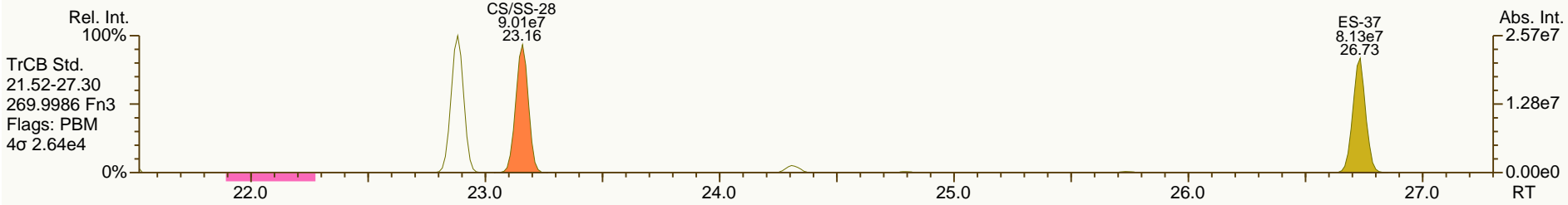
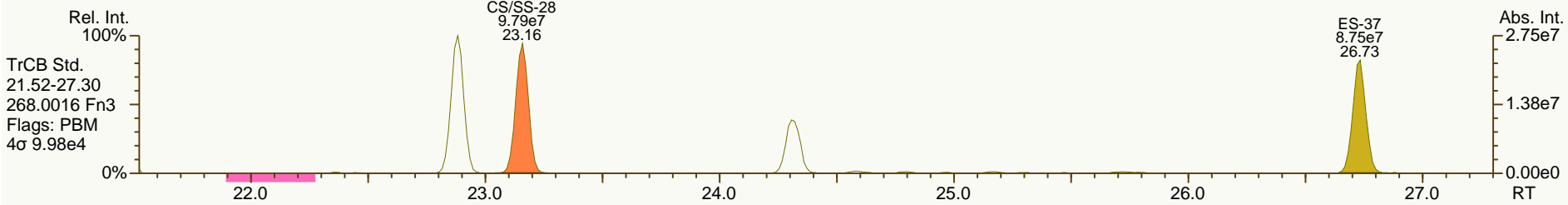
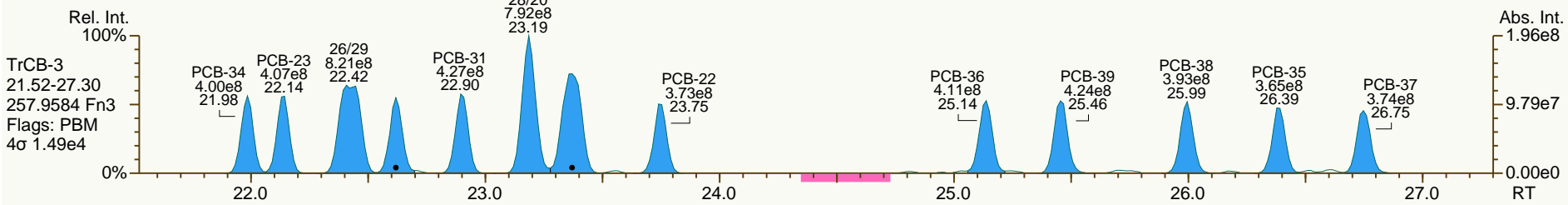
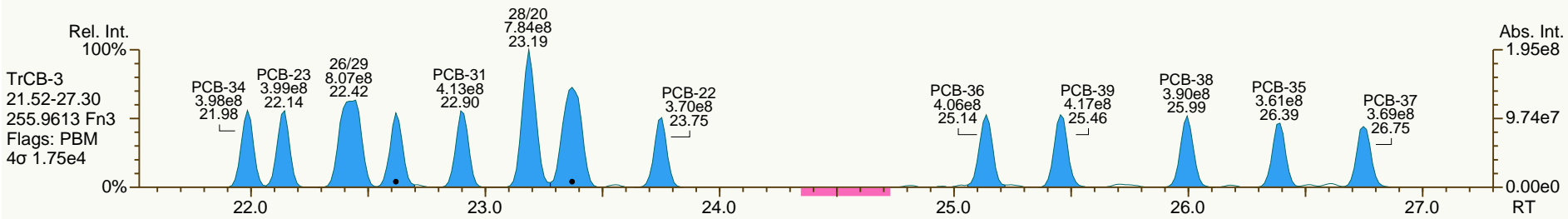
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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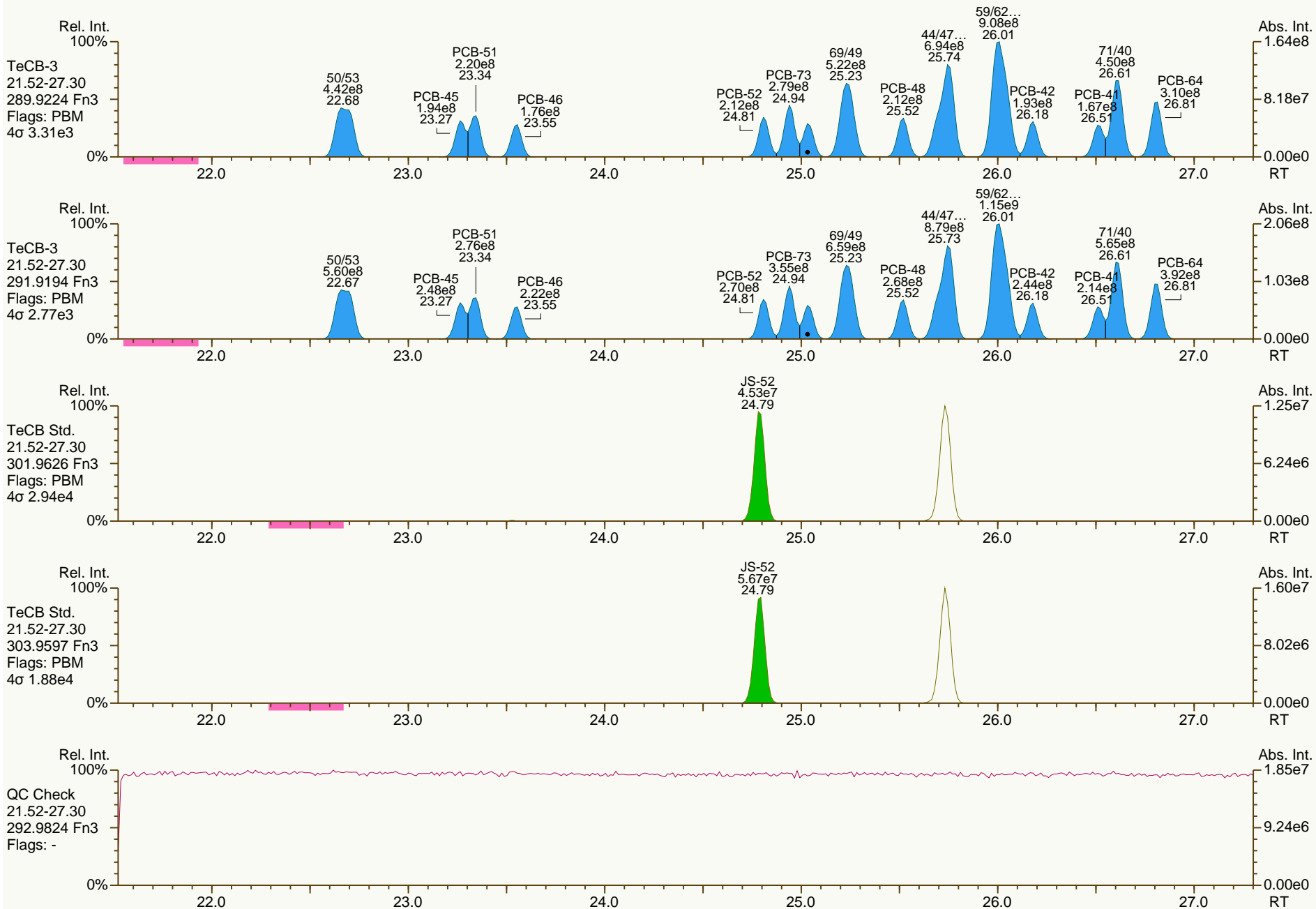




SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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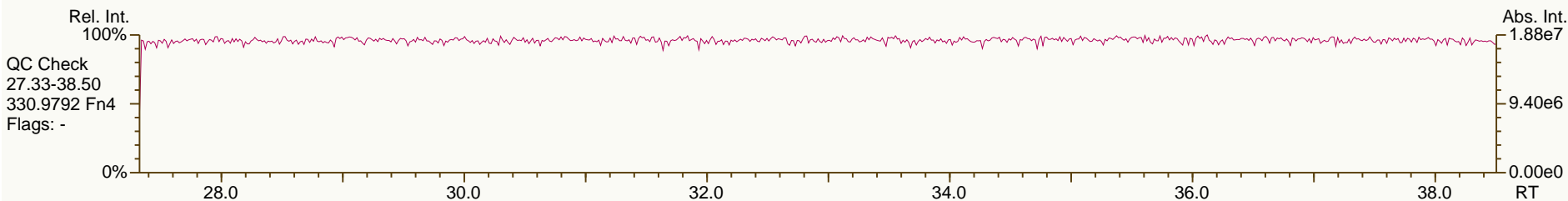
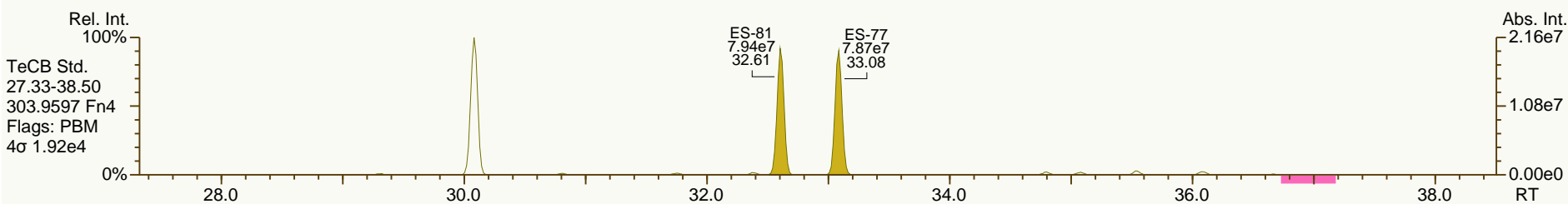
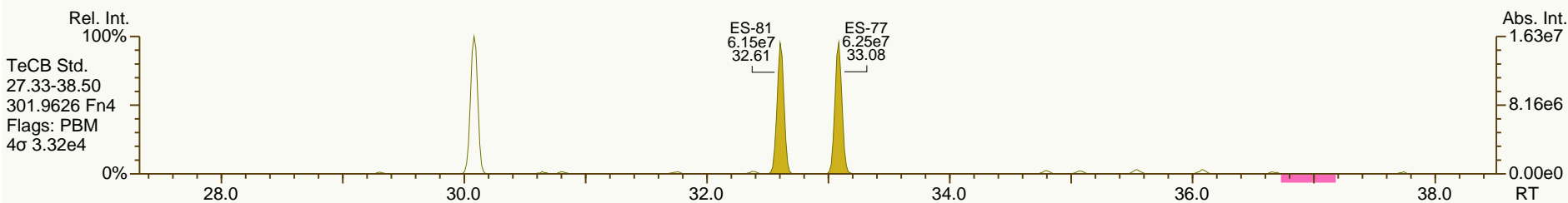
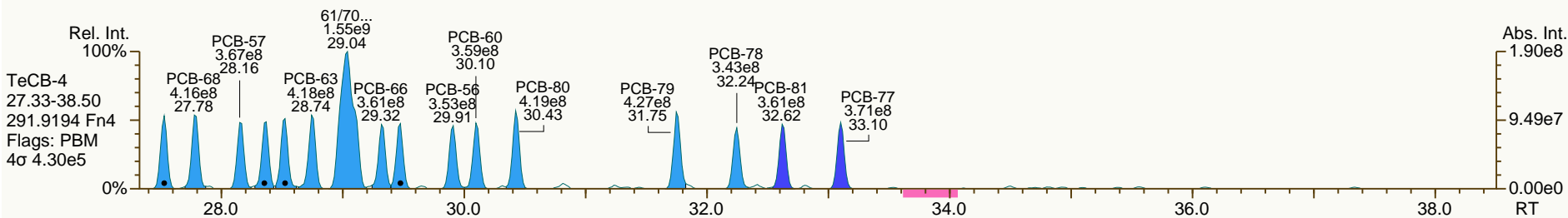
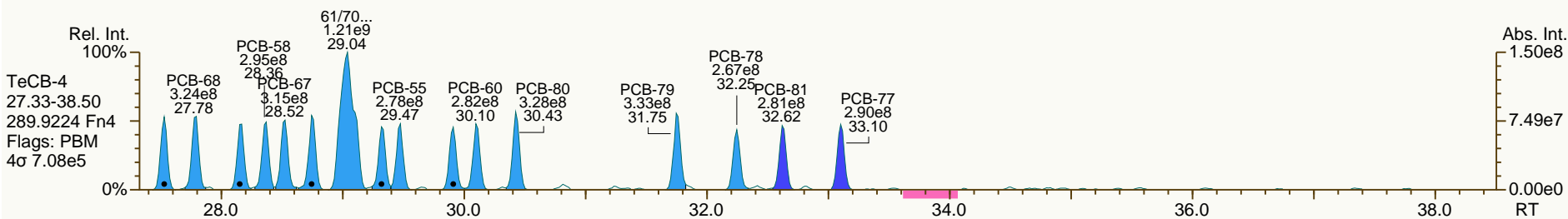
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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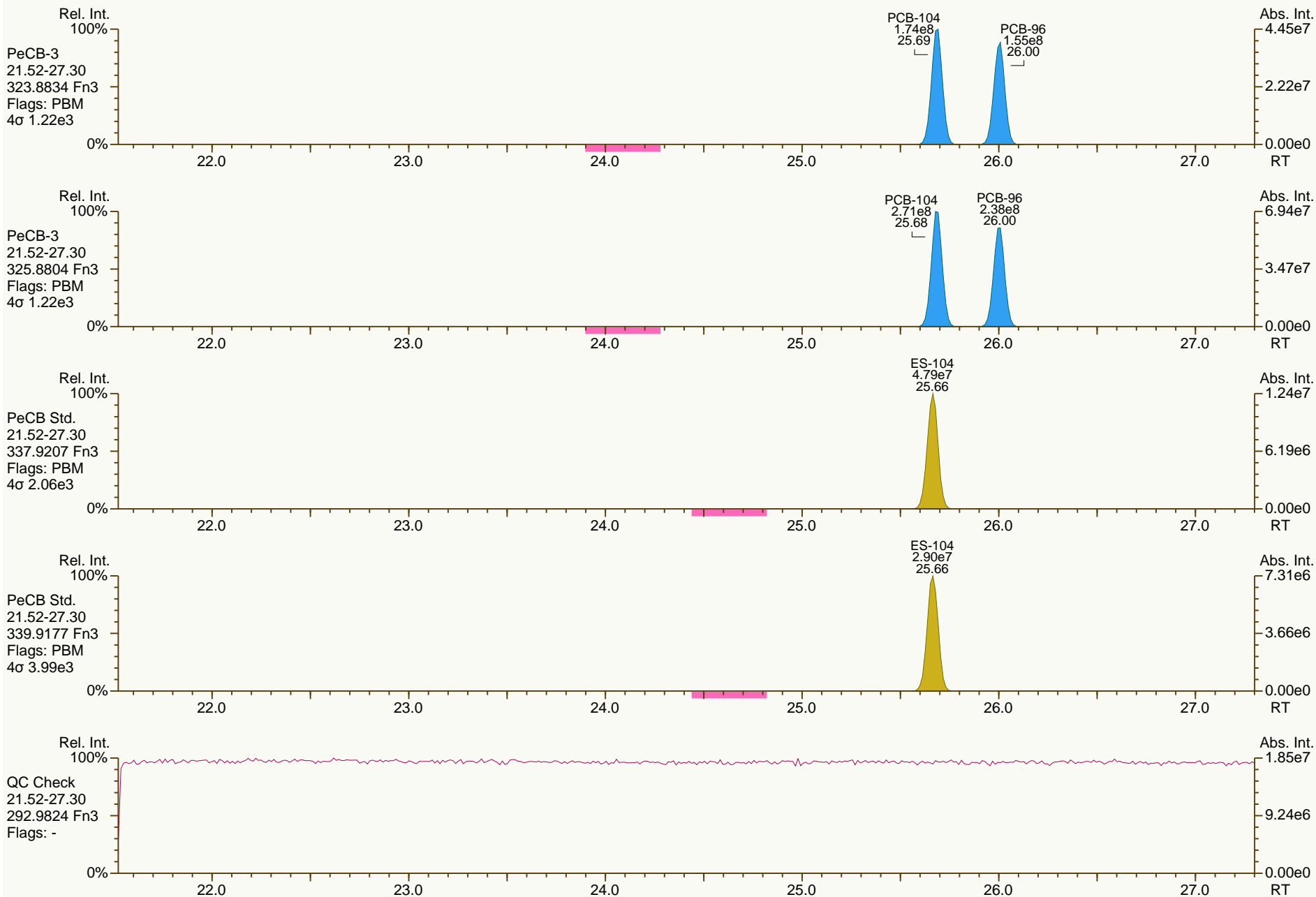
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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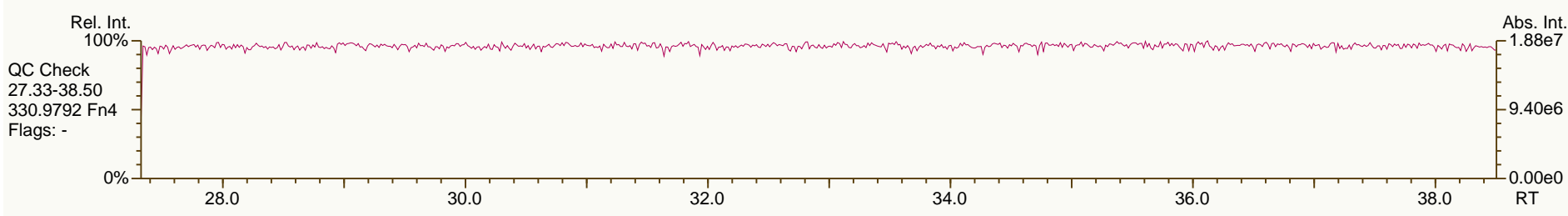
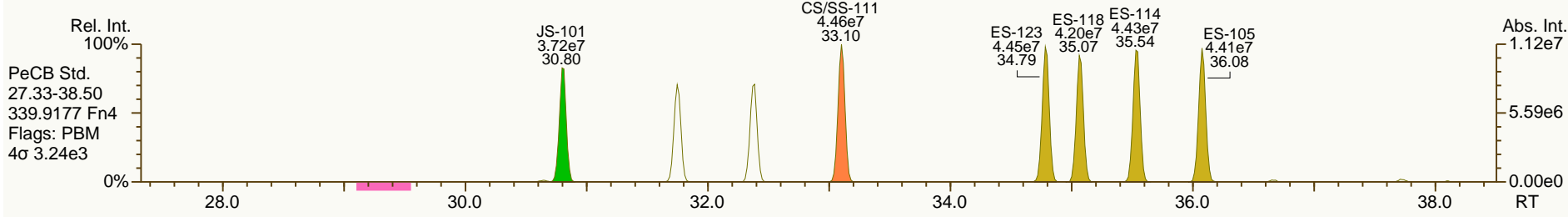
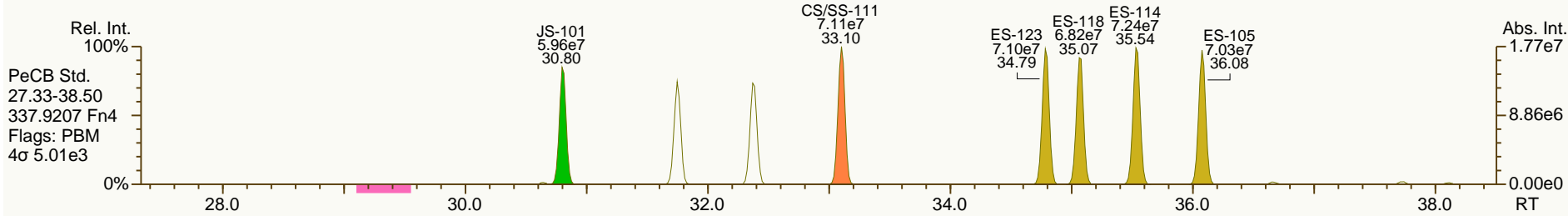
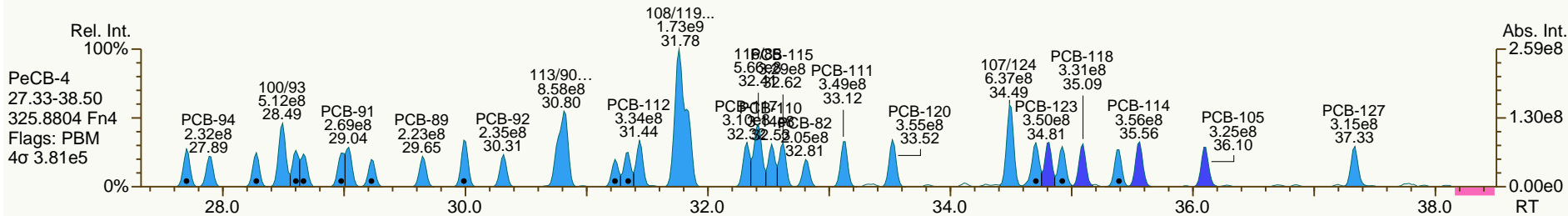
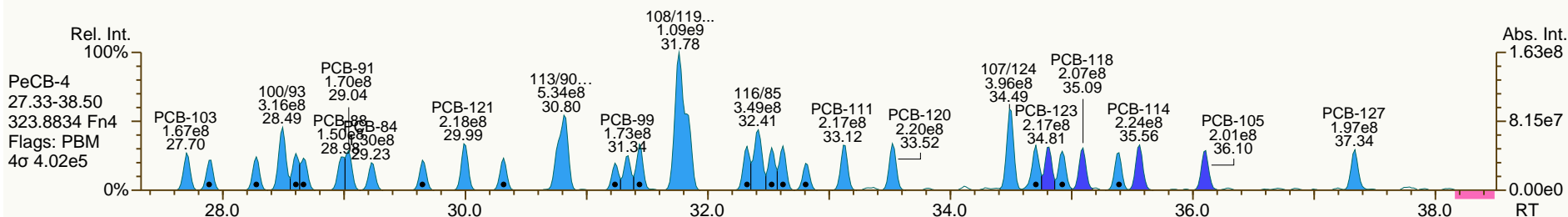
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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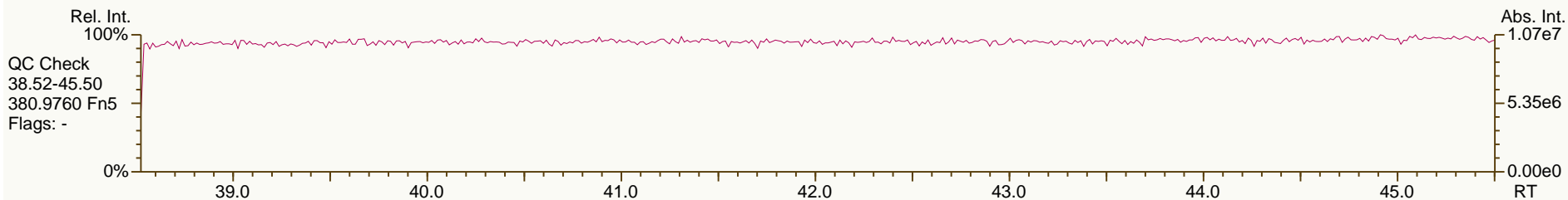
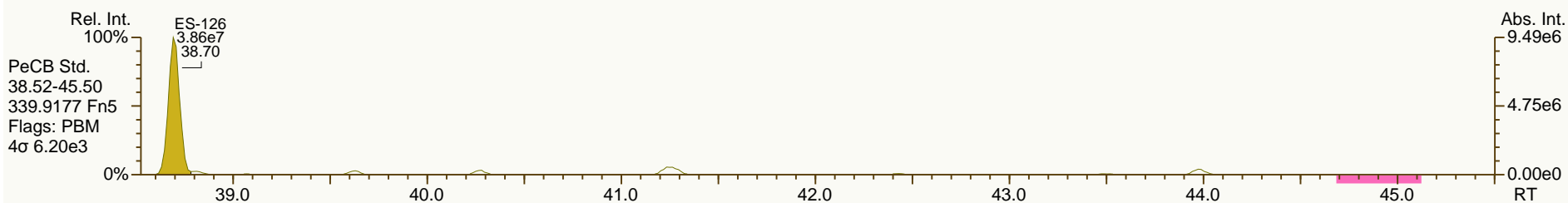
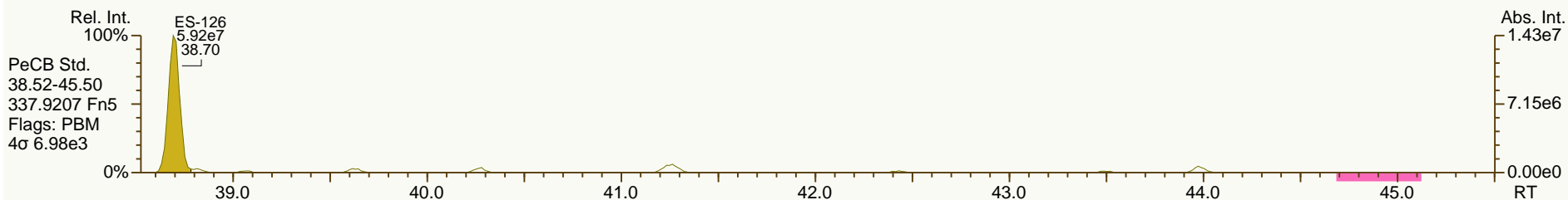
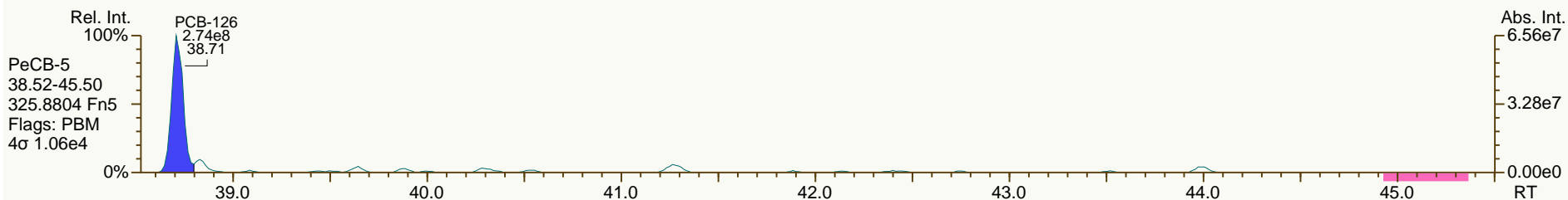
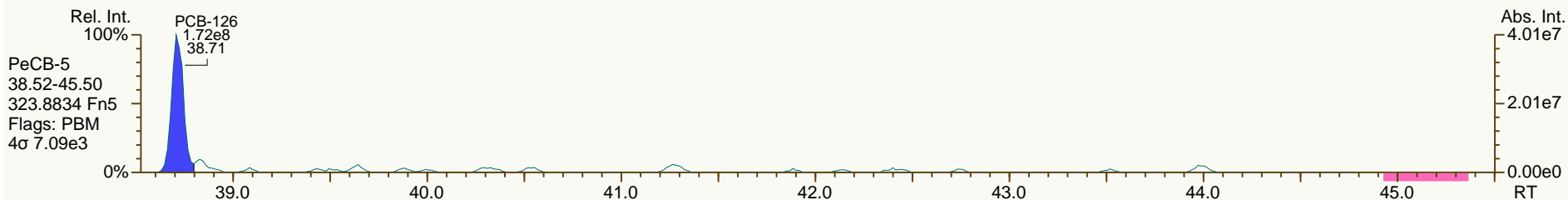
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

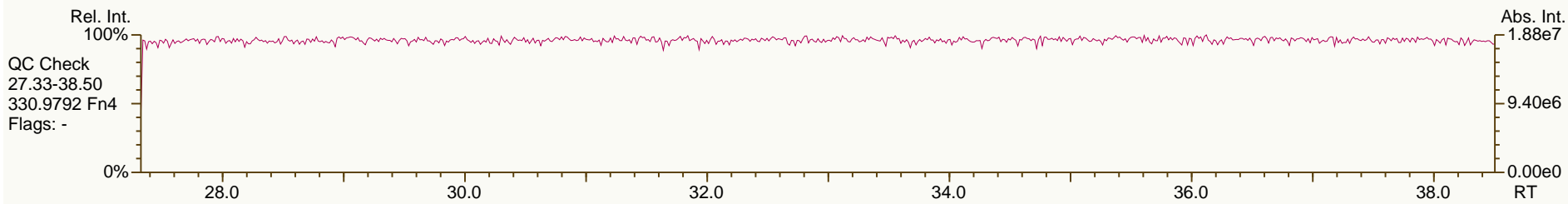
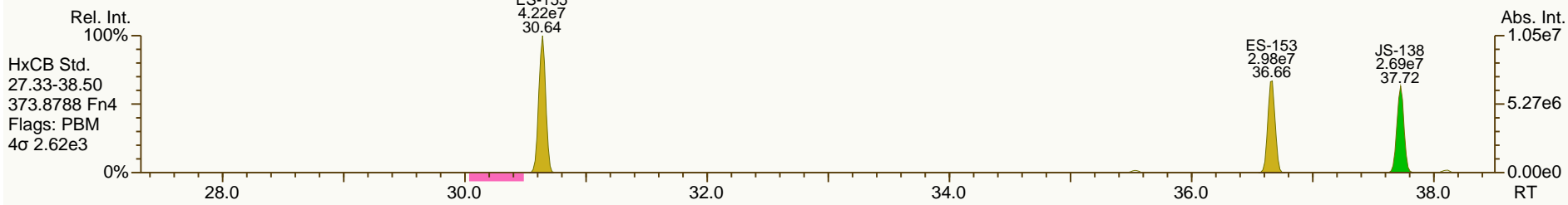
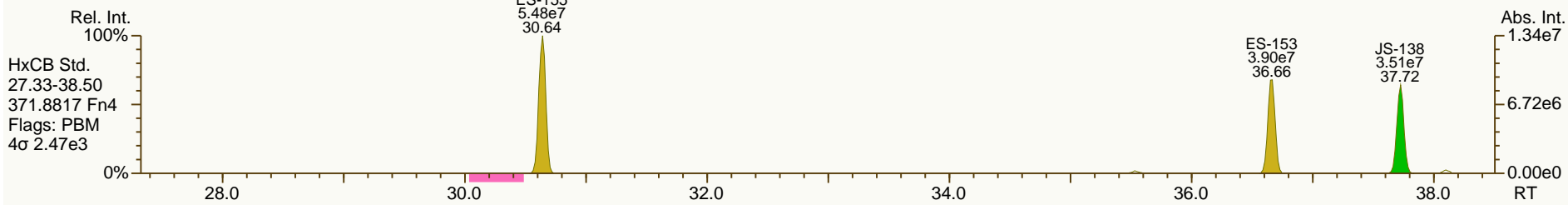
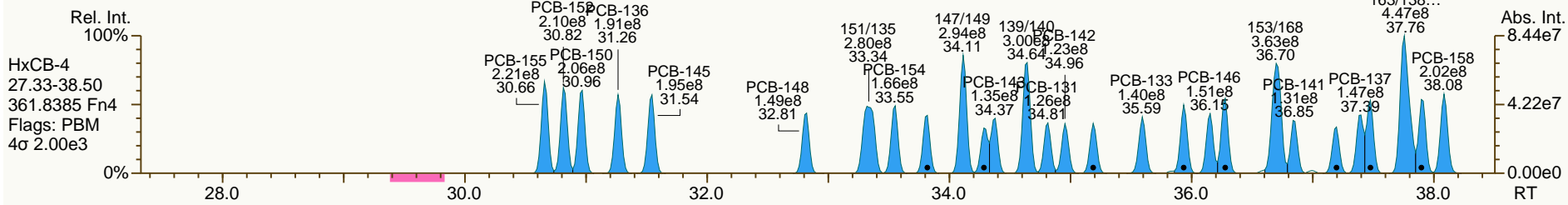
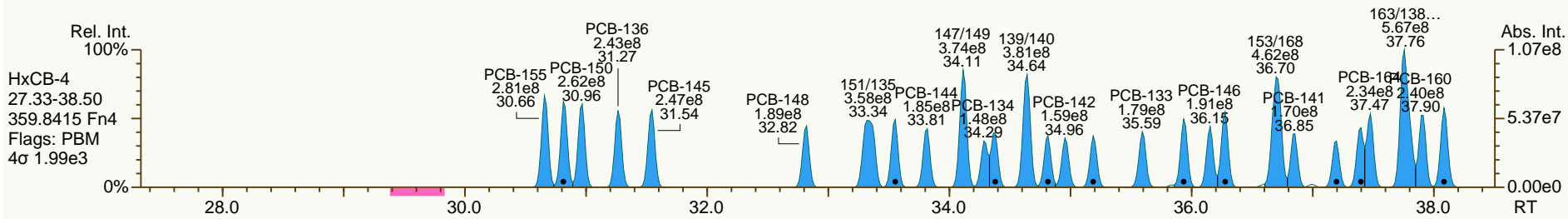
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

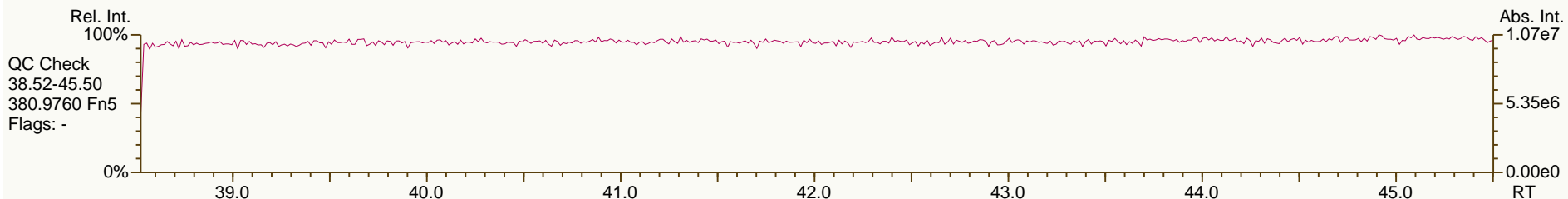
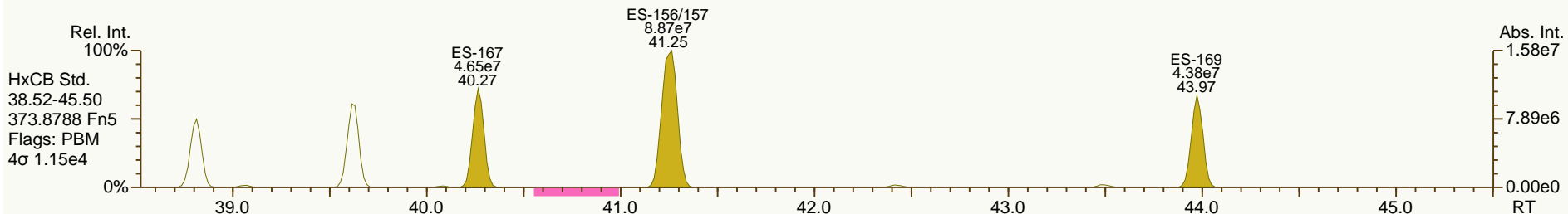
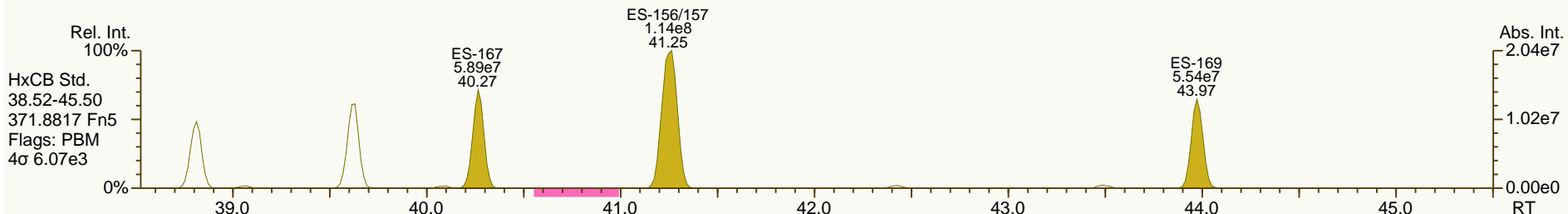
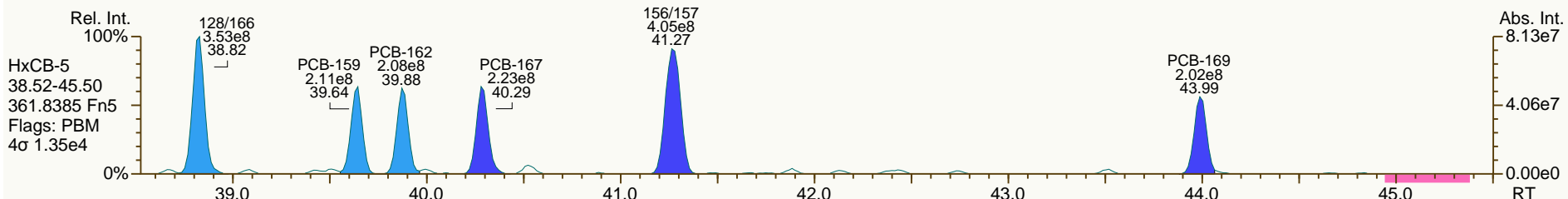
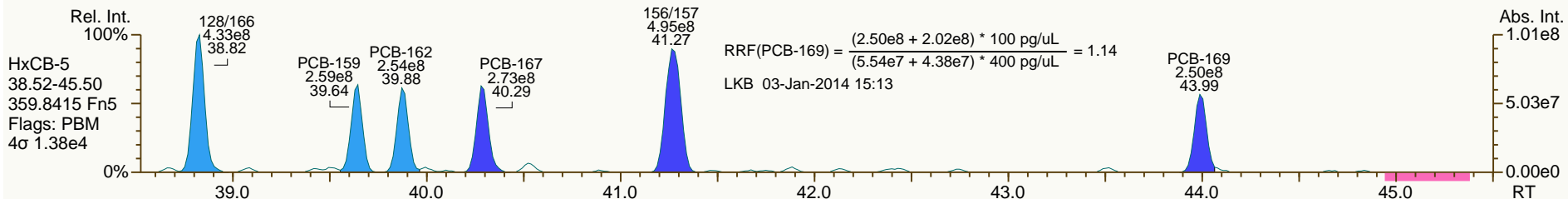
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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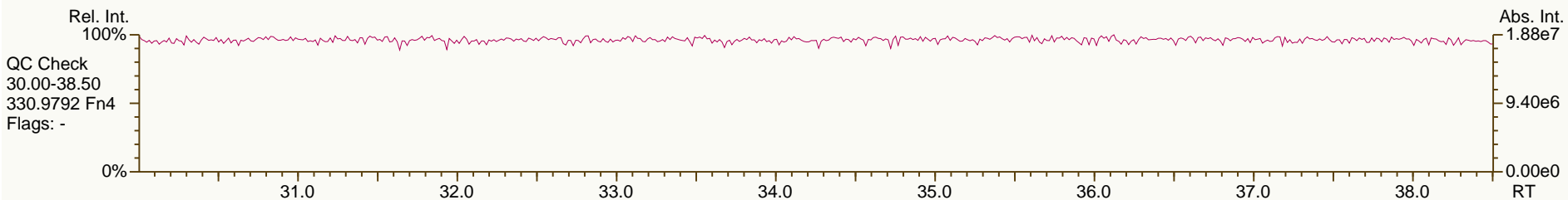
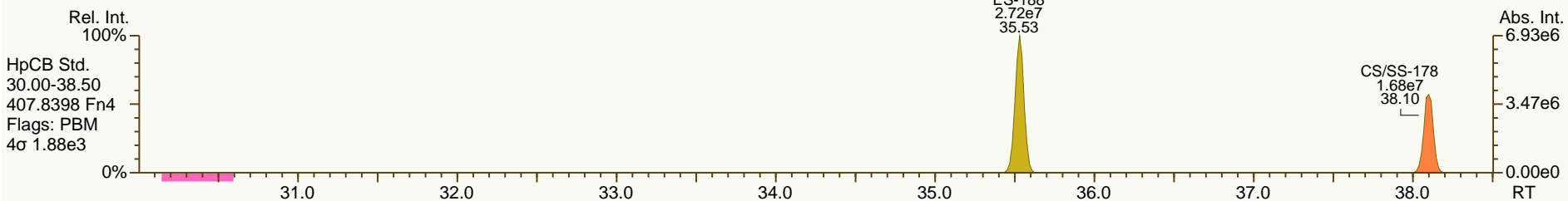
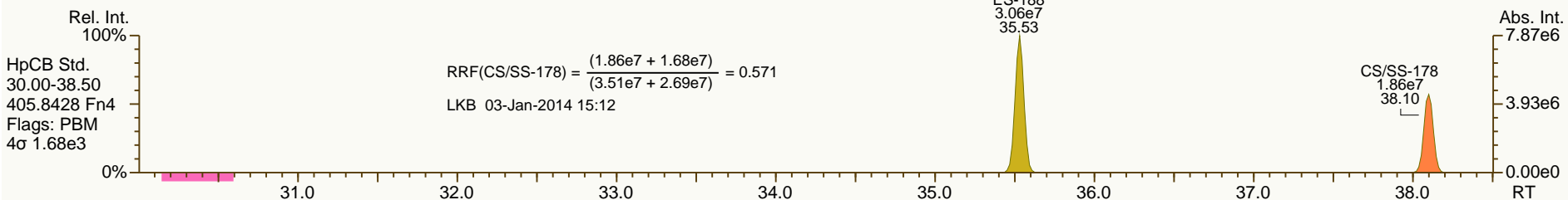
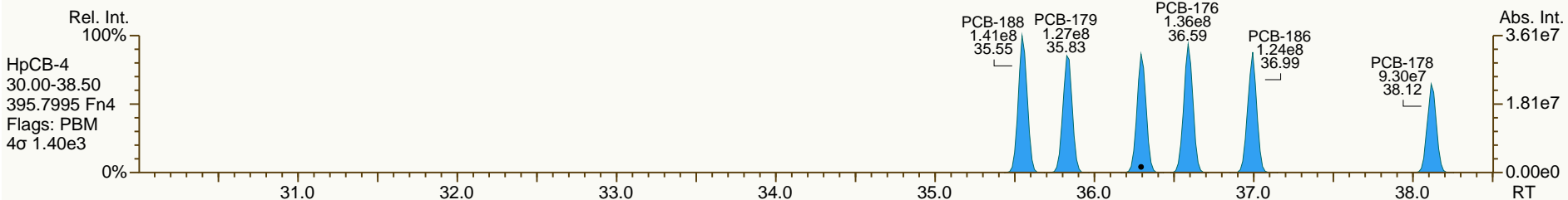
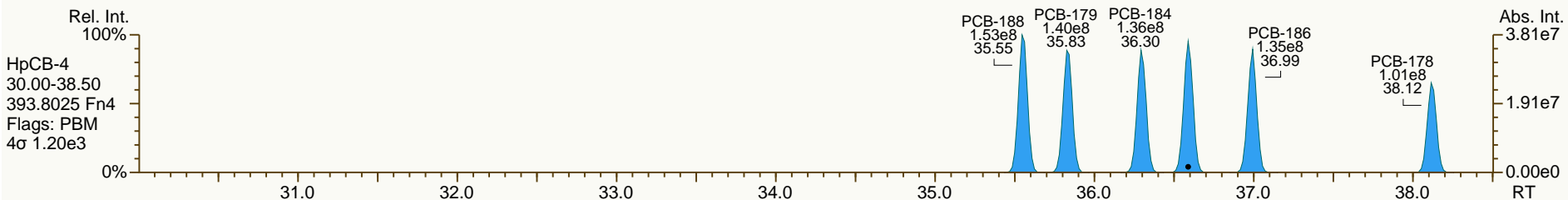
Acq: 20-Dec-2013 18:59:38  
User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06

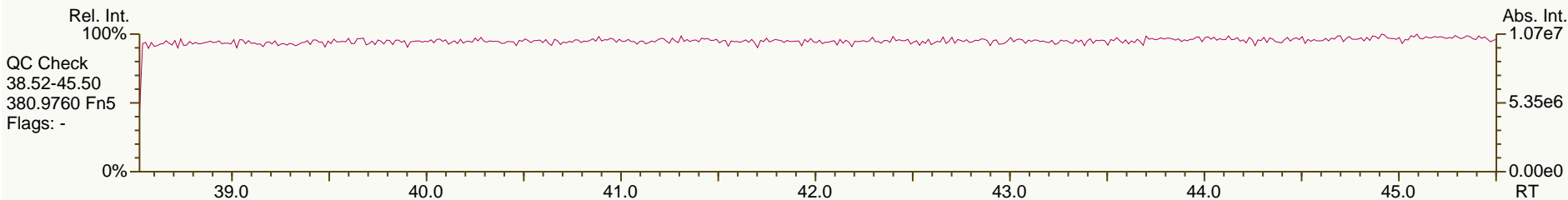
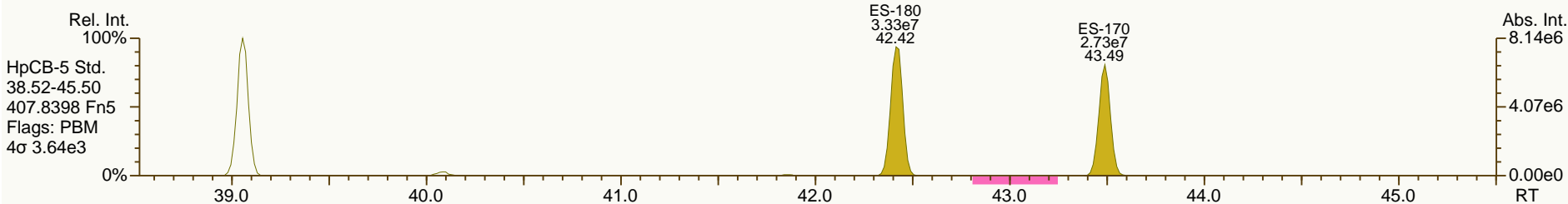
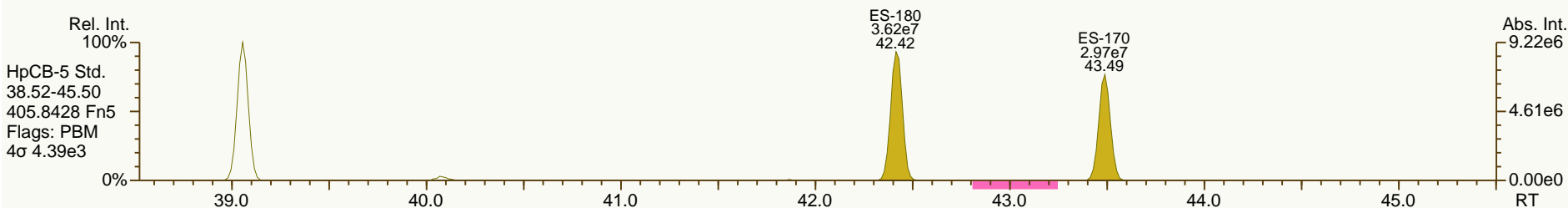
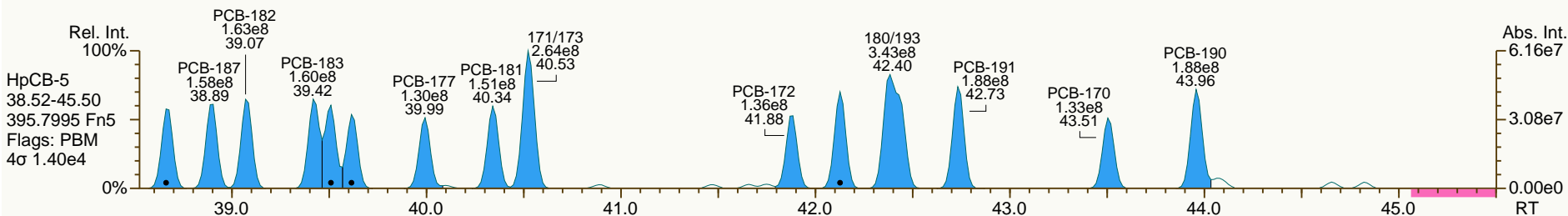
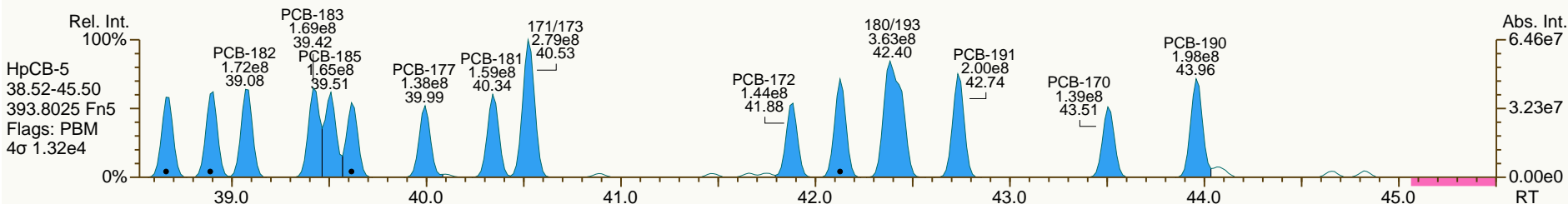




SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

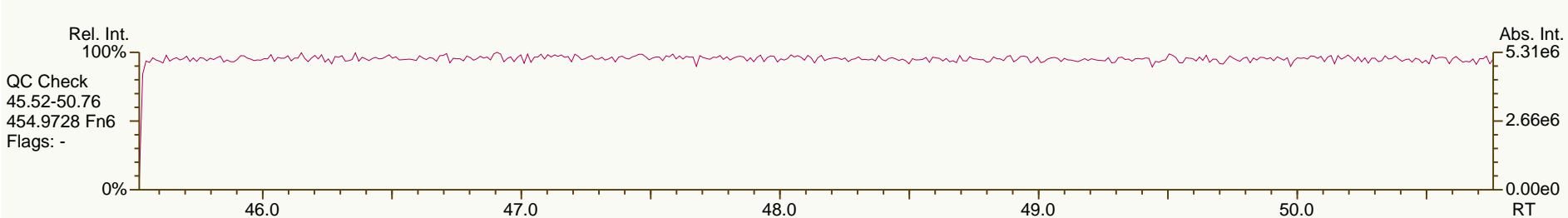
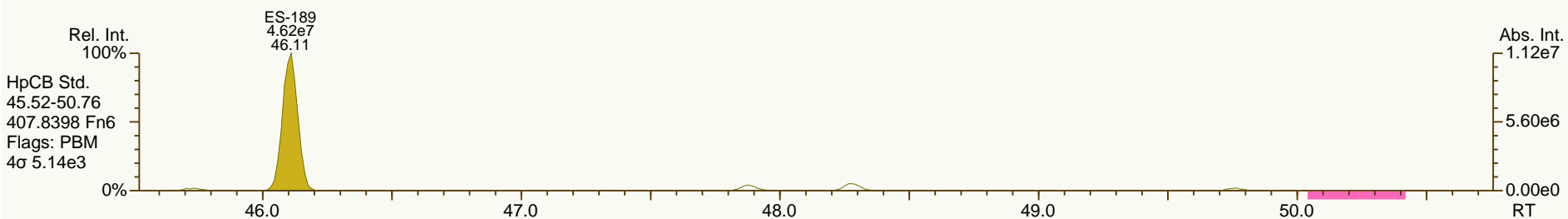
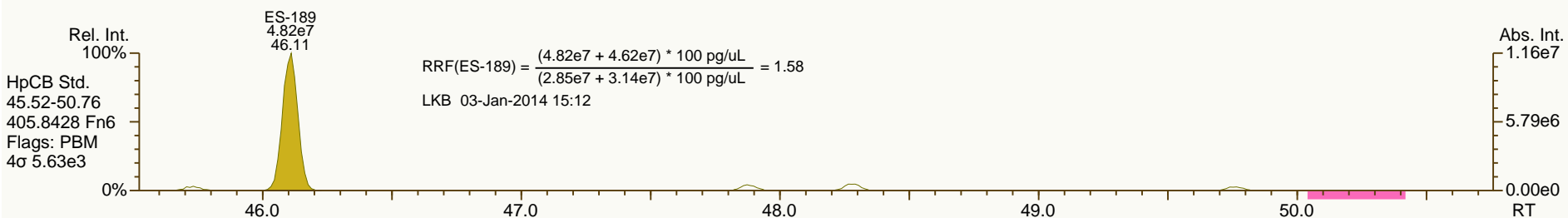
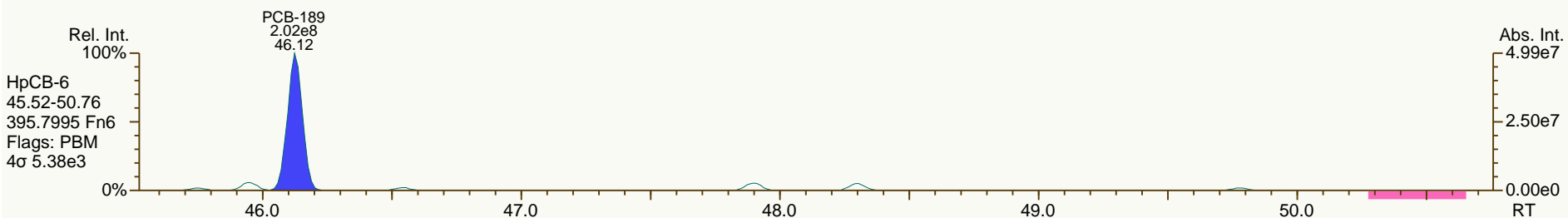
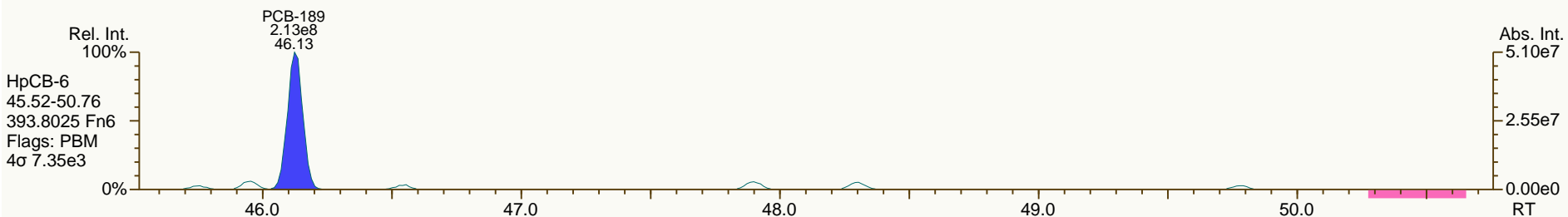
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

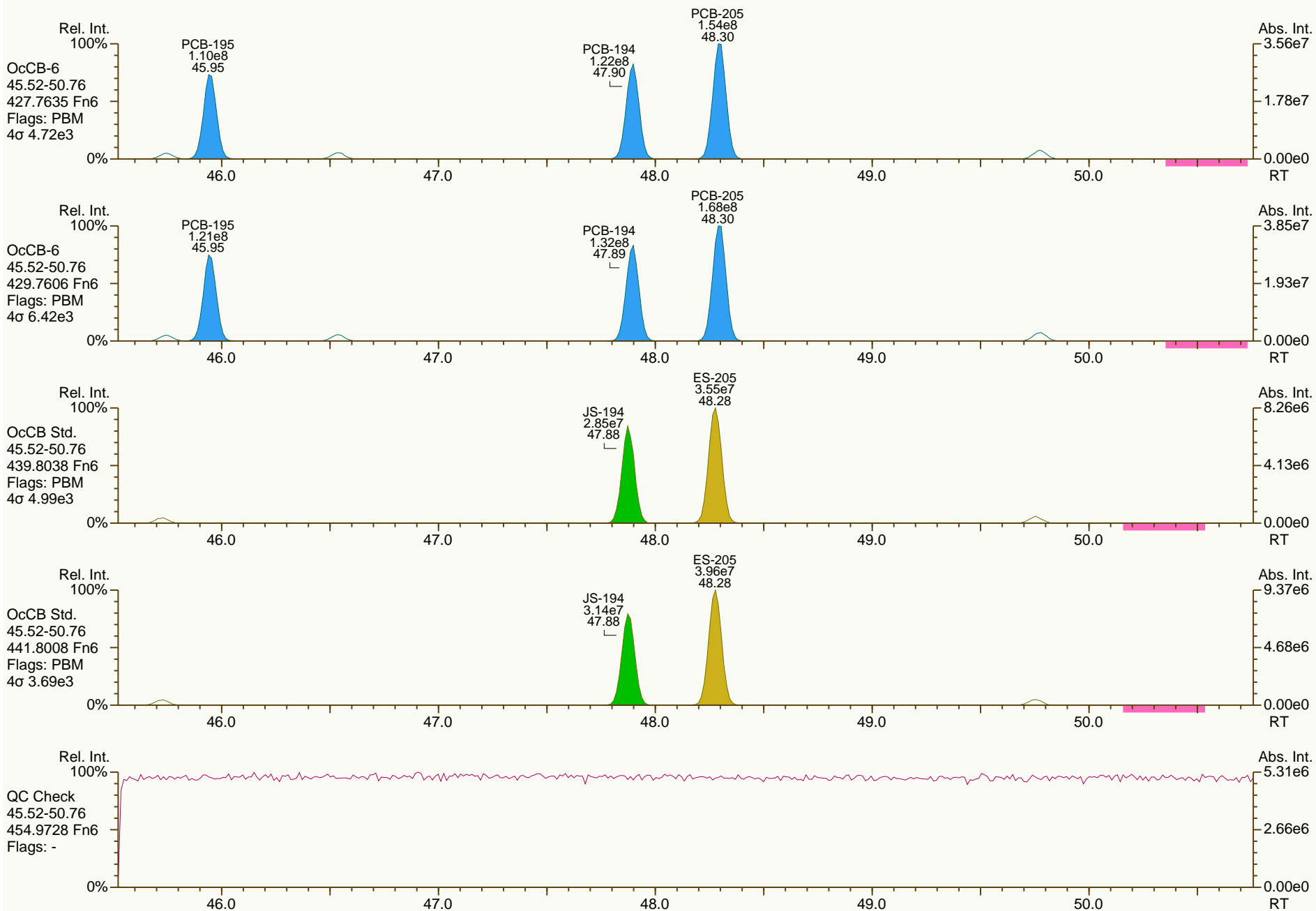
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 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

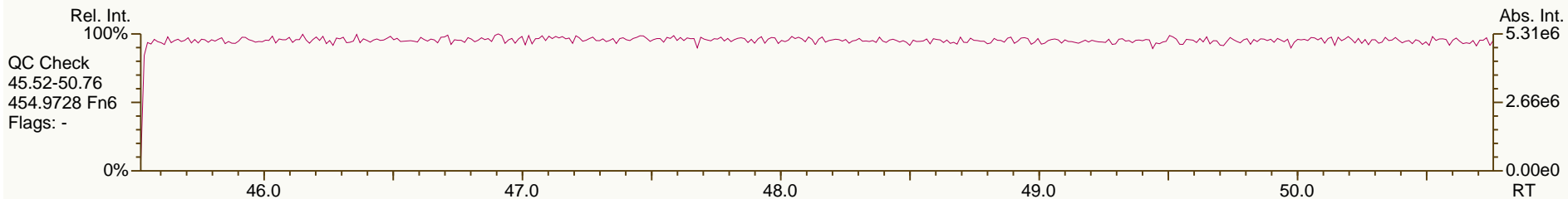
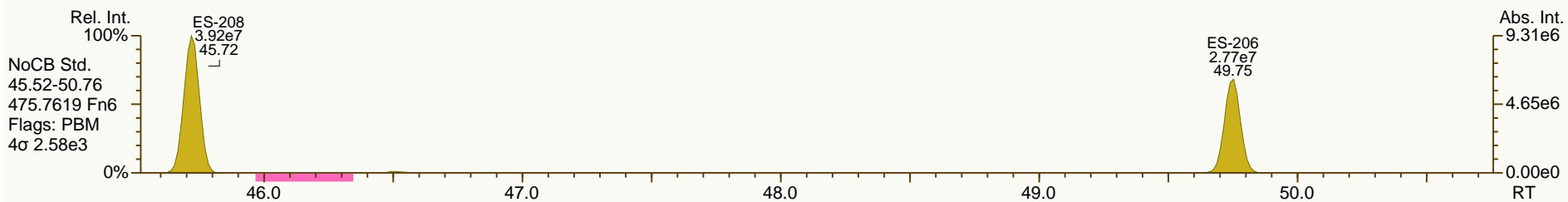
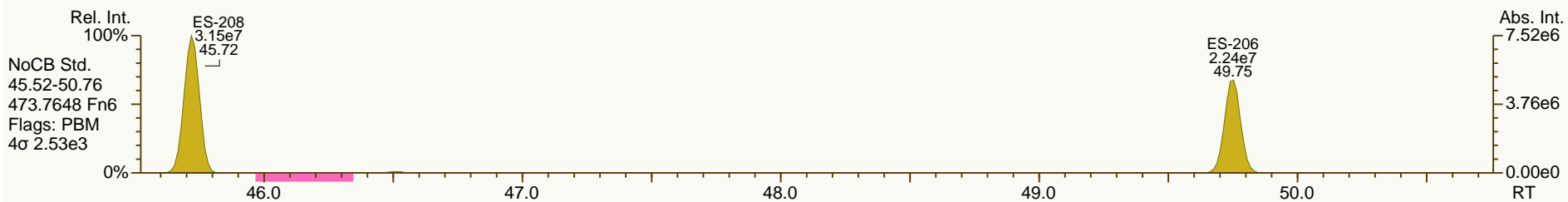
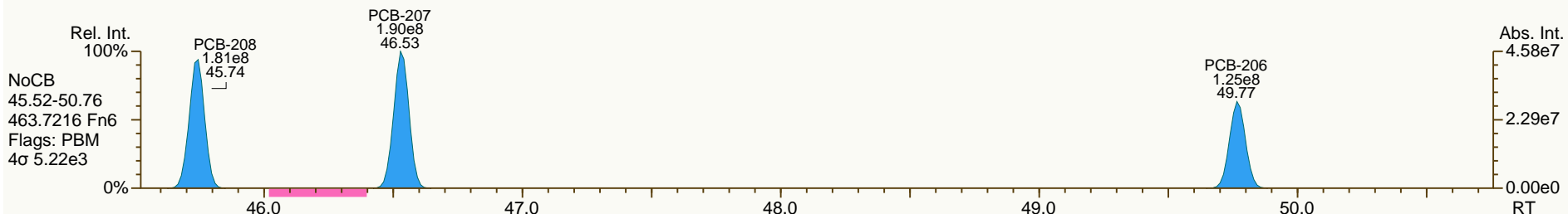
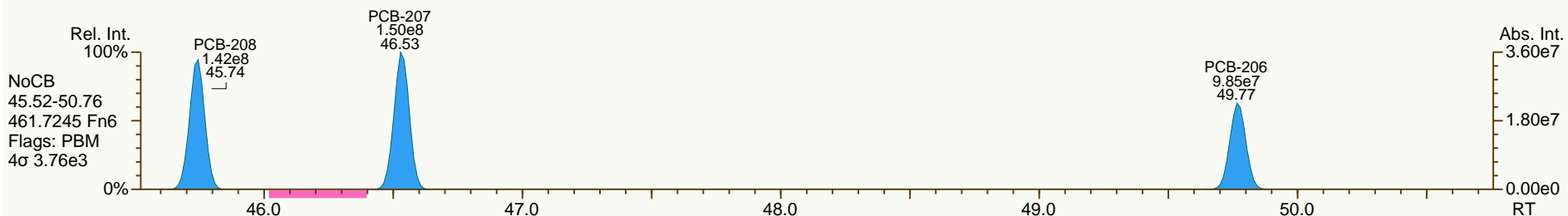
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

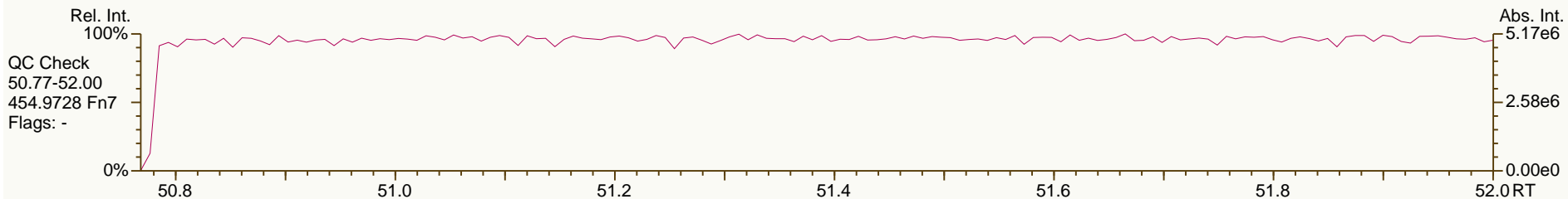
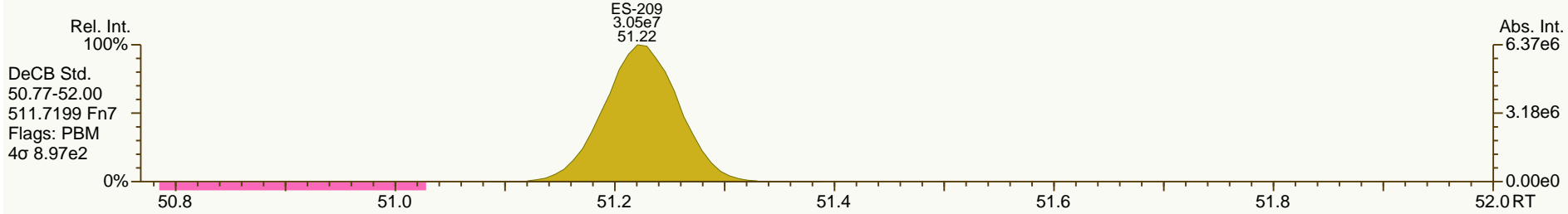
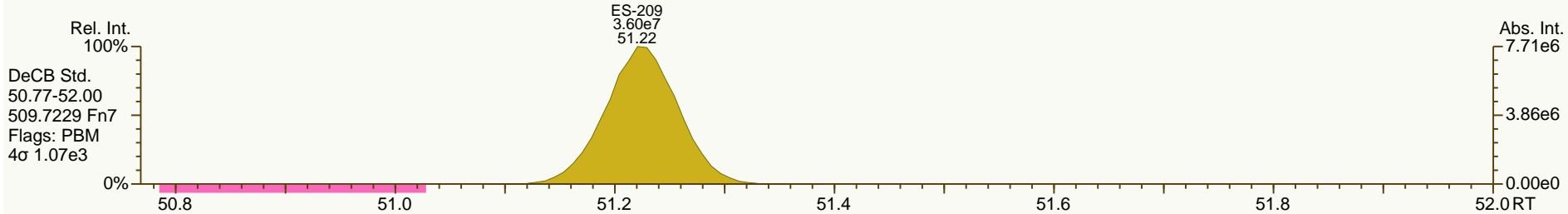
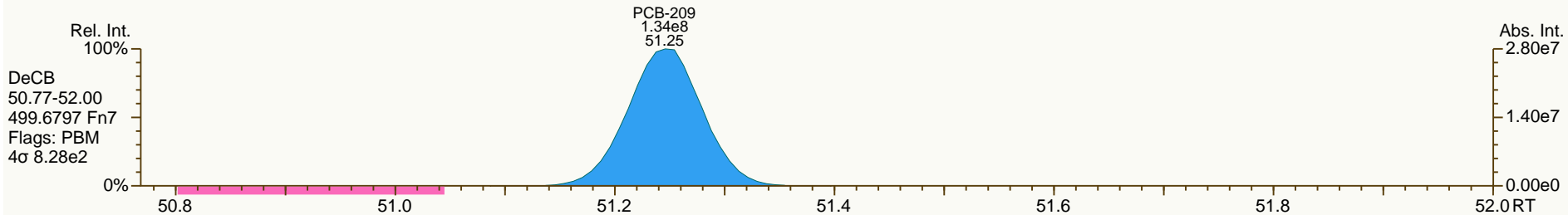
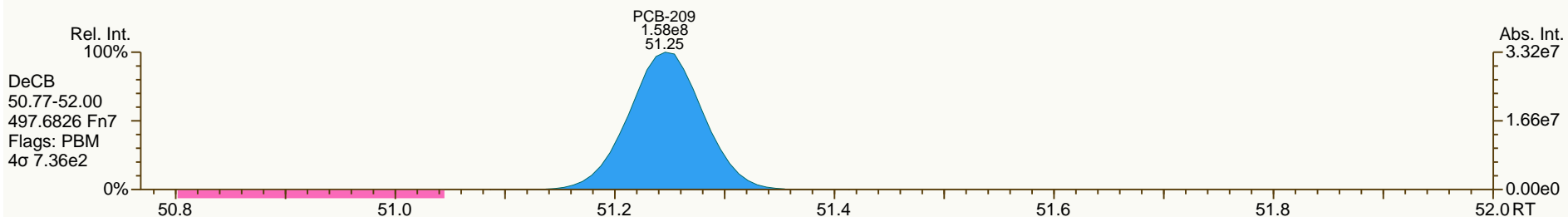
Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	3.92E+09	0.79 Y	1.15	1.22	6.1%	
PCB-81 344'5'-TeCB	32.63	3.81E+09	0.78 Y	1.12	1.17	4.4%	
PCB-105 233'44'-PeCB	36.10	3.11E+09	0.62 Y	1.11	1.18	5.9%	
PCB-114 2344'5'-PeCB	35.56	3.45E+09	0.63 Y	1.20	1.29	6.9%	
PCB-118 23'44'5'-PeCB	35.09	3.20E+09	0.63 Y	1.19	1.25	4.7%	
PCB-123 23'44'5'-PeCB	34.82	3.32E+09	0.62 Y	1.21	1.25	3.0%	
PCB-126 33'44'5'-PeCB	38.72	2.76E+09	0.63 Y	1.11	1.21	9.8%	
PCB-156/157 ...-HxCB	41.27	5.55E+09	1.23 Y	1.10	1.17	6.3%	
PCB-167 23'44'55'-HxCB	40.29	3.01E+09	1.22 Y	1.16	1.23	5.8%	
PCB-169 33'44'55'-HxCB	43.99	2.75E+09	1.24 Y	1.12	1.17	4.3%	
PCB-189 233'44'55'-HpCB	46.12	2.52E+09	1.05 Y	1.07	1.16	7.9%	
PCB-209 DeCB	51.24	1.71E+09	1.18 Y	1.11	1.15	3.3%	
ES PCB-1	12.03	2.62E+08	3.21 Y	1.19	1.13	-5.6%	
ES PCB-3	14.35	2.47E+08	3.30 Y	1.09	1.06	-2.3%	
ES PCB-4	14.61	1.23E+08	1.63 Y	0.52	0.53	0.9%	
ES PCB-15	20.38	2.45E+08	1.53 Y	1.04	1.05	1.3%	
ES PCB-19	17.73	1.20E+08	1.07 Y	0.51	0.52	2.2%	
ES PCB-37	26.74	1.94E+08	1.09 Y	1.66	1.69	1.6%	
ES PCB-54	20.67	9.79E+07	0.83 Y	0.86	0.85	-0.9%	
ES PCB-77	33.09	1.61E+08	0.79 Y	1.38	1.40	1.2%	
ES PCB-81	32.61	1.63E+08	0.79 Y	1.37	1.42	4.0%	
ES PCB-104	25.67	8.86E+07	1.66 Y	0.80	0.78	-2.5%	
ES PCB-105	36.08	1.32E+08	1.58 Y	1.20	1.17	-2.9%	
ES PCB-114	35.54	1.34E+08	1.60 Y	1.22	1.19	-2.5%	
ES PCB-118	35.07	1.28E+08	1.60 Y	1.16	1.14	-1.9%	
ES PCB-123	34.79	1.33E+08	1.59 Y	1.19	1.18	-0.8%	
ES PCB-126	38.70	1.14E+08	1.54 Y	1.03	1.01	-2.2%	
ES PCB-153	36.66	8.16E+07	1.32 Y	1.11	1.10	-1.2%	
ES PCB-155	30.64	1.13E+08	1.29 Y	1.59	1.52	-4.1%	
ES PCB-156/157	41.25	2.38E+08	1.27 Y	1.60	1.61	0.4%	
ES PCB-167	40.27	1.22E+08	1.26 Y	1.67	1.65	-1.0%	
ES PCB-169	43.97	1.17E+08	1.27 Y	1.56	1.58	1.8%	
ES PCB-170	43.49	6.70E+07	1.09 Y	0.95	0.97	2.9%	
ES PCB-180	42.42	8.32E+07	1.09 Y	1.14	1.21	6.3%	
ES PCB-188	35.53	6.88E+07	1.10 Y	0.94	0.93	-1.1%	
ES PCB-189	46.11	1.09E+08	1.01 Y	1.58	1.58	-0.3%	
ES PCB-202	40.08	7.17E+07	0.94 Y	0.97	0.97	-0.2%	
ES PCB-205	48.27	8.57E+07	0.89 Y	1.24	1.25	0.1%	
ES PCB-206	49.75	5.62E+07	0.81 Y	0.83	0.82	-1.6%	
ES PCB-208	45.72	8.18E+07	0.80 Y	1.17	1.19	1.2%	
ES PCB-209	51.22	7.42E+07	1.20 Y	1.11	1.08	-2.8%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	2.10E+08	1.08 Y	1.11	1.09	-2.3%	
SS PCB-111	33.10	1.37E+08	1.60 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	4.42E+07	1.12 Y	0.62	0.64	3.8%	
CS PCB-28	23.16	2.10E+08	1.08 Y	1.85	1.83	-0.7%	
CS PCB-111	33.10	1.37E+08	1.60 Y	1.22	1.21	-0.7%	
CS PCB-178	38.10	4.42E+07	1.12 Y	0.58	0.60	2.7%	
JS PCB-9	16.61	2.33E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.15E+08	0.81 Y	-	-	-	
JS PCB-101	30.81	1.13E+08	1.60 Y	-	-	-	
JS PCB-138	37.73	7.41E+07	1.32 Y	-	-	-	
JS PCB-194	47.87	6.88E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-2 3-MoCB	14.18	5.06E+09	2.92 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-10 26'-DiCB	14.81	5.06E+09	1.58 Y	1.98	2.06	4.1%	
PCB-9 25'-DiCB	16.63	4.77E+09	1.62 Y	0.95	0.97	2.9%	
PCB-7 24'-DiCB	16.80	5.47E+09	1.65 Y	1.05	1.11	6.5%	
PCB-6 23'-DiCB	17.02	5.14E+09	1.63 Y	1.00	1.05	5.3%	
PCB-5 23'-DiCB	17.33	5.14E+09	1.64 Y	1.00	1.05	4.7%	
PCB-8 24'-DiCB	17.45	5.25E+09	1.64 Y	1.03	1.07	3.7%	
PCB-14 35'-DiCB	19.02	6.12E+09	1.60 Y	1.18	1.25	5.8%	
PCB-11 33'-DiCB	19.81	5.26E+09	1.63 Y	1.01	1.07	6.2%	
PCB-13/12 34'/34'-DiCB	20.10	1.05E+10	1.63 Y	0.99	1.07	8.0%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-30/18 246/22'5'-TrCB	19.52	7.69E+09	1.04 Y	1.54	1.60	4.0%	
PCB-17 22'4'-TrCB	19.93	3.33E+09	1.05 Y	1.31	1.38	6.0%	
PCB-27 23'6'-TrCB	20.12	4.61E+09	1.05 Y	1.82	1.92	5.5%	
PCB-24 236'-TrCB	20.26	4.39E+09	1.04 Y	1.72	1.83	5.9%	
PCB-16 22'3'-TrCB	20.35	2.55E+09	1.05 Y	1.01	1.06	5.3%	
PCB-32 24'6'-TrCB	20.84	4.79E+09	1.05 Y	1.92	1.99	3.8%	
PCB-34 23'5'-TrCB	21.99	4.49E+09	1.00 Y	1.14	1.16	2.3%	
PCB-23 235'-TrCB	22.14	4.54E+09	0.98 Y	1.16	1.17	1.5%	
PCB-26/29 23'5'/245'-TrCB	22.43	9.34E+09	0.99 Y	1.17	1.21	3.0%	
PCB-25 23'4'-TrCB	22.63	4.59E+09	0.99 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.91	4.84E+09	0.99 Y	1.23	1.25	2.1%	
PCB-28/20 244'/233'-TrCB	23.20	9.02E+09	0.98 Y	1.13	1.17	2.9%	
PCB-21/33 234'/23'4'-TrCB	23.38	9.35E+09	0.97 Y	1.17	1.21	2.9%	
PCB-22 234'-TrCB	23.75	4.32E+09	0.98 Y	1.08	1.12	3.4%	
PCB-36 33'5'-TrCB	25.14	4.81E+09	0.99 Y	1.17	1.24	6.2%	
PCB-39 34'5'-TrCB	25.46	4.93E+09	0.98 Y	1.21	1.27	5.1%	
PCB-38 345'-TrCB	26.00	4.32E+09	1.00 Y	1.10	1.11	0.9%	
PCB-35 33'4'-TrCB	26.39	4.24E+09	0.99 Y	1.04	1.10	5.3%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	5.80E+09	0.79 Y	0.88	0.89	1.5%	
PCB-45 22'36'-TeCB	23.28	2.69E+09	0.79 Y	0.77	0.83	7.6%	
PCB-51 22'46'-TeCB	23.35	2.73E+09	0.80 Y	0.86	0.84	-2.6%	
PCB-46 22'36'-TeCB	23.56	2.31E+09	0.79 Y	0.70	0.71	1.2%	
PCB-52 22'55'-TeCB	24.82	2.76E+09	0.79 Y	0.84	0.85	0.5%	
PCB-73 23'5'6'-TeCB	24.95	3.82E+09	0.79 Y	1.11	1.17	5.5%	
PCB-43 22'35'-TeCB	25.05	2.28E+09	0.79 Y	0.71	0.70	-1.5%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	6.91E+09	0.79 Y	1.02	1.06	3.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	2.83E+09	0.79 Y	0.84	0.87	3.4%	
PCB-44/47/65 ...-TeCB	25.74	9.10E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.02	1.15E+10	0.81 Y	1.17	1.18	1.4%	
PCB-42 22'34'-TeCB	26.18	2.53E+09	0.79 Y	0.76	0.78	1.9%	
PCB-41 22'34'-TeCB	26.52	2.38E+09	0.78 Y	0.69	0.73	5.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	5.79E+09	0.79 Y	0.86	0.89	3.5%	
PCB-64 234'6'-TeCB	26.81	4.17E+09	0.79 Y	1.22	1.28	4.8%	
PCB-72 23'55'-TeCB	27.53	4.01E+09	0.79 Y	1.21	1.23	1.8%	
PCB-68 23'45'-TeCB	27.79	4.24E+09	0.78 Y	1.28	1.30	1.9%	
PCB-57 233'5'-TeCB	28.16	3.81E+09	0.79 Y	1.16	1.17	0.4%	
PCB-58 233'5'-TeCB	28.37	4.00E+09	0.79 Y	1.18	1.23	4.1%	
PCB-67 23'45'-TeCB	28.53	4.17E+09	0.79 Y	1.26	1.28	1.6%	
PCB-63 234'5'-TeCB	28.75	4.37E+09	0.79 Y	1.30	1.34	3.2%	
PCB-61/70/74/76 ...-TeCB	29.05	1.58E+10	0.79 Y	1.20	1.21	1.4%	
PCB-66 23'44'-TeCB	29.33	3.68E+09	0.78 Y	1.10	1.13	2.4%	
PCB-55 233'4'-TeCB	29.47	3.76E+09	0.79 Y	1.12	1.15	3.0%	
PCB-56 233'4'-TeCB	29.91	3.68E+09	0.79 Y	1.11	1.13	1.6%	
PCB-60 2344'-TeCB	30.10	3.79E+09	0.78 Y	1.14	1.16	2.6%	
PCB-80 33'55'-TeCB	30.43	4.36E+09	0.79 Y	1.31	1.34	1.9%	
PCB-79 33'45'-TeCB	31.76	4.29E+09	0.79 Y	1.31	1.32	0.8%	
PCB-78 33'45'-TeCB	32.25	3.62E+09	0.79 Y	1.06	1.11	4.6%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-96 22'366'-PeCB	26.01	2.25E+09	0.65 Y	1.23	1.27	3.5%	
PCB-103 22'45'6'-PeCB	27.71	2.54E+09	0.62 Y	0.93	0.95	2.6%	
PCB-94 22'356'-PeCB	27.90	2.18E+09	0.63 Y	0.80	0.82	2.5%	
PCB-95 22'35'6'-PeCB	28.28	2.36E+09	0.62 Y	0.87	0.89	2.4%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	4.75E+09	0.62 Y	0.86	0.89	3.4%	
PCB-102 22'456'-PeCB	28.61	2.73E+09	0.62 Y	0.97	1.02	5.8%	
PCB-98 22'34'6'-PeCB	28.68	2.05E+09	0.64 Y	0.76	0.77	1.6%	
PCB-88 22'346'-PeCB	28.98	2.08E+09	0.61 Y	0.80	0.78	-2.2%	
PCB-91 22'34'6'-PeCB	29.04	2.73E+09	0.63 Y	0.94	1.03	8.9%	
PCB-84 22'33'6'-PeCB	29.24	1.98E+09	0.62 Y	0.72	0.74	3.7%	
PCB-89 22'346'-PeCB	29.65	2.09E+09	0.62 Y	0.76	0.79	3.0%	
PCB-121 23'45'6'-PeCB	30.00	3.31E+09	0.62 Y	1.20	1.24	3.7%	
PCB-92 22'355'-PeCB	30.32	2.25E+09	0.62 Y	0.82	0.84	2.9%	
PCB-113/90/101 ...-PeCB	30.80	8.09E+09	0.62 Y	0.99	1.01	2.8%	
PCB-83 22'33'5'-PeCB	31.24	1.82E+09	0.62 Y	0.71	0.69	-4.1%	
PCB-99 22'44'5'-PeCB	31.34	2.67E+09	0.62 Y	0.92	1.00	8.8%	
PCB-112 233'56'-PeCB	31.44	3.15E+09	0.63 Y	1.17	1.18	1.3%	
PCB-108/119/86/97/125...-PeCB	31.79	1.55E+10	0.68 Y	0.98	0.97	-0.7%	
PCB-117 234'56'-PeCB	32.33	3.32E+09	0.62 Y	1.14	1.25	9.6%	
PCB-116/85 23456/22'344'-PeCB	32.42	5.04E+09	0.63 Y	0.94	0.95	0.6%	
PCB-110 233'4'6'-PeCB	32.53	3.01E+09	0.62 Y	1.12	1.13	1.1%	

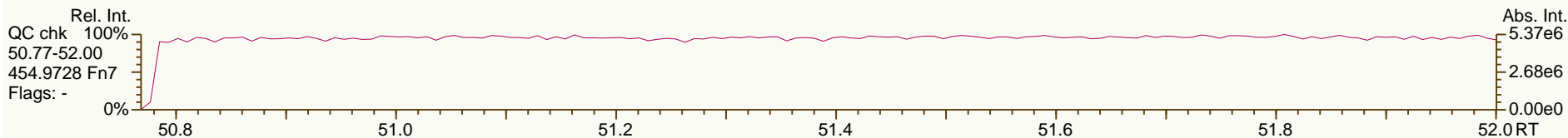
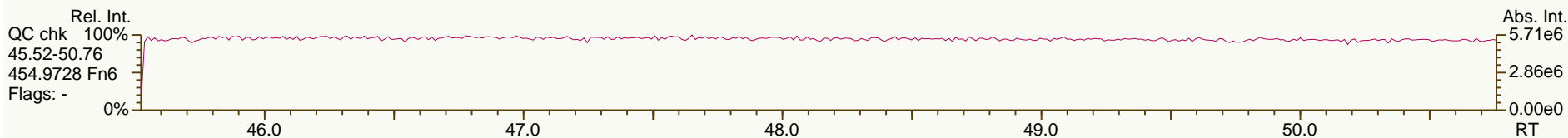
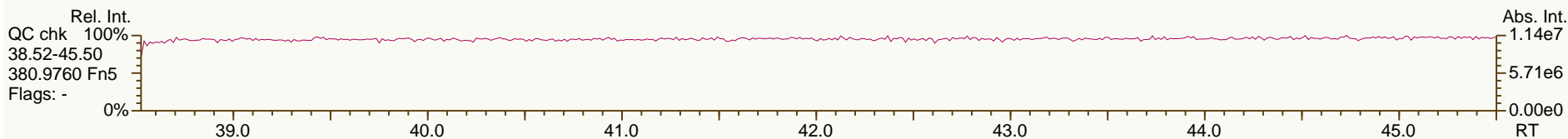
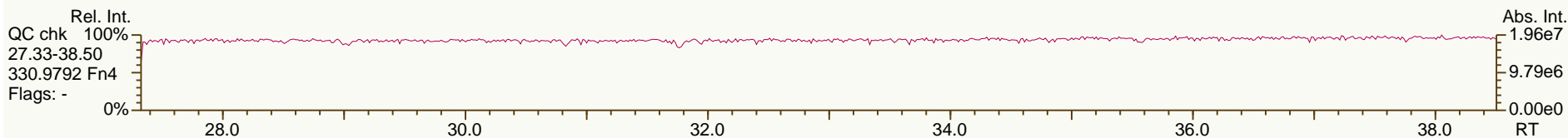
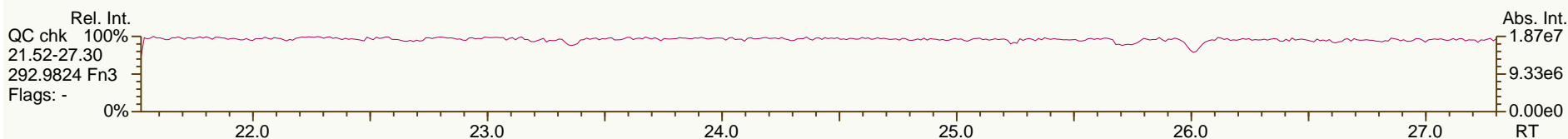
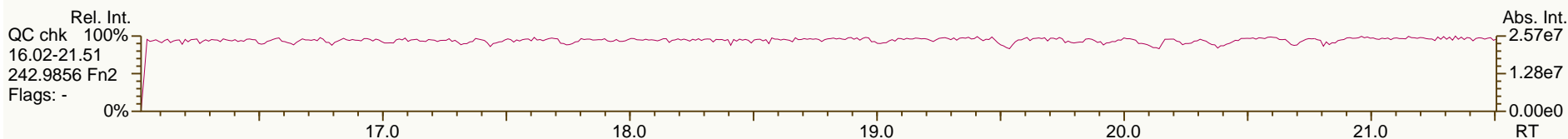
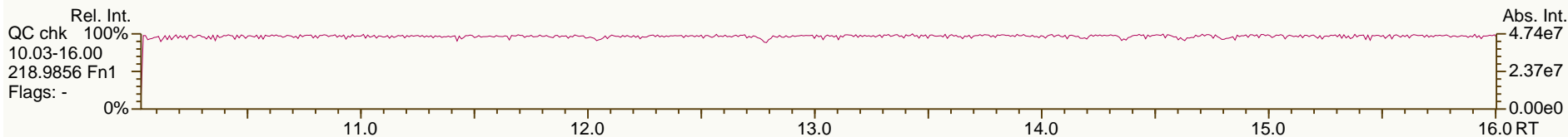
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Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	3.31E+09	0.63 Y	1.16	1.24	7.2%	
PCB-82 22'33'4-PeCB	32.81	1.94E+09	0.62 Y	0.70	0.73	4.5%	
PCB-111 233'55'-PeCB	33.13	3.35E+09	0.63 Y	1.22	1.26	3.1%	
PCB-120 23'455'-PeCB	33.53	3.41E+09	0.62 Y	1.21	1.28	5.7%	
PCB-107/124 ...-PeCB	34.50	6.21E+09	0.63 Y	1.10	1.17	6.2%	
PCB-109 233'46-PeCB	34.71	3.61E+09	0.62 Y	1.25	1.36	8.2%	
PCB-106 233'45-PeCB	34.93	3.03E+09	0.62 Y	1.11	1.14	3.1%	
PCB-122 233'4'5'-PeCB	35.39	2.83E+09	0.63 Y	0.99	1.06	6.1%	
PCB-127 33'455'-PeCB	37.34	3.14E+09	0.62 Y	1.10	1.19	8.8%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-152 22'3566'-HxCB	30.82	2.78E+09	1.26 Y	1.17	1.23	5.0%	
PCB-150 22'34'66'-HxCB	30.97	2.75E+09	1.26 Y	1.18	1.22	3.6%	
PCB-136 22'33'66'-HxCB	31.27	2.61E+09	1.27 Y	1.07	1.16	8.4%	
PCB-145 22'3466'-HxCB	31.54	2.61E+09	1.28 Y	1.11	1.16	3.7%	
PCB-148 22'34'56'-HxCB	32.82	2.03E+09	1.30 Y	1.18	1.25	5.4%	
PCB-151/135 ...-HxCB	33.34	3.85E+09	1.28 Y	1.14	1.18	3.6%	
PCB-154 22'44'56'-HxCB	33.55	2.26E+09	1.26 Y	1.34	1.38	3.2%	
PCB-144 22'345'6-HxCB	33.81	1.97E+09	1.28 Y	1.18	1.20	1.8%	
PCB-147/149 ...-HxCB	34.12	4.02E+09	1.26 Y	1.18	1.23	4.9%	
PCB-134 22'33'56-HxCB	34.29	1.54E+09	1.26 Y	0.92	0.94	2.0%	
PCB-143 22'3456'-HxCB	34.37	1.89E+09	1.28 Y	1.13	1.16	2.7%	
PCB-139/140 ...-HxCB	34.64	4.13E+09	1.28 Y	1.21	1.27	5.1%	
PCB-131 22'33'46-HxCB	34.81	1.73E+09	1.28 Y	1.03	1.06	3.7%	
PCB-142 22'3456-HxCB	34.96	1.72E+09	1.26 Y	0.99	1.06	6.7%	
PCB-132 22'33'46'-HxCB	35.19	1.74E+09	1.27 Y	1.03	1.06	3.2%	
PCB-133 22'33'55'-HxCB	35.60	1.91E+09	1.26 Y	1.13	1.17	3.7%	
PCB-165 233'55'6-HxCB	35.94	2.36E+09	1.27 Y	1.41	1.44	2.5%	
PCB-146 22'34'55'-HxCB	36.15	2.06E+09	1.27 Y	1.20	1.26	5.0%	
PCB-161 233'45'6-HxCB	36.27	2.61E+09	1.27 Y	1.52	1.60	5.3%	
PCB-153/168 ...-HxCB	36.70	4.99E+09	1.28 Y	1.46	1.53	5.0%	
PCB-141 22'3455'-HxCB	36.85	1.83E+09	1.27 Y	1.09	1.12	2.9%	
PCB-130 22'33'45'-HxCB	37.19	1.63E+09	1.26 Y	0.97	1.00	3.0%	
PCB-137 22'344'5-HxCB	37.39	2.02E+09	1.27 Y	1.16	1.24	6.3%	
PCB-164 233'4'5'6-HxCB	37.47	2.53E+09	1.29 Y	1.50	1.55	3.5%	
PCB-163/138/129 ...-HxCB	37.77	6.19E+09	1.26 Y	1.19	1.27	6.4%	
PCB-160 233'456-HxCB	37.90	2.49E+09	1.29 Y	1.52	1.52	0.6%	
PCB-158 233'44'6-HxCB	38.09	2.80E+09	1.28 Y	1.66	1.72	3.4%	
PCB-128/166 ...-HxCB	38.82	4.79E+09	1.22 Y	0.90	0.98	8.8%	
PCB-159 233'455'-HxCB	39.64	2.87E+09	1.23 Y	1.11	1.17	5.3%	
PCB-162 233'4'55'-HxCB	39.88	2.82E+09	1.22 Y	1.07	1.15	7.5%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-179 22'33'566'-HpCB	35.83	1.59E+09	1.11 Y	1.16	1.15	-0.7%	
PCB-184 22'344'66'-HpCB	36.30	1.62E+09	1.09 Y	1.13	1.17	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	1.74E+09	1.08 Y	1.23	1.26	2.3%	
PCB-186 22'34566'-HpCB	36.99	1.57E+09	1.09 Y	1.13	1.14	1.1%	
PCB-178 22'33'55'6'-HpCB	38.12	1.21E+09	1.09 Y	0.84	0.88	4.2%	
PCB-175 22'33'45'6'-HpCB	38.67	1.91E+09	1.06 Y	1.07	1.15	7.1%	
PCB-187 22'34'55'6'-HpCB	38.90	2.01E+09	1.06 Y	1.14	1.21	6.2%	
PCB-182 22'344'56'-HpCB	39.08	2.05E+09	1.06 Y	1.18	1.23	4.6%	
PCB-183 22'344'5'6'-HpCB	39.42	2.03E+09	1.05 Y	1.20	1.22	1.1%	
PCB-185 22'3455'6'-HpCB	39.51	2.01E+09	1.06 Y	1.06	1.21	13.9%	
PCB-174 22'33'456'-HpCB	39.62	1.71E+09	1.06 Y	0.99	1.03	4.0%	
PCB-177 22'33'45'6'-HpCB	39.99	1.65E+09	1.06 Y	0.95	0.99	4.3%	
PCB-181 22'344'56'-HpCB	40.34	1.95E+09	1.06 Y	1.09	1.17	7.5%	
PCB-171/173 ...-HpCB	40.53	3.42E+09	1.06 Y	0.95	1.03	8.3%	
PCB-172 22'33'455'-HpCB	41.88	1.73E+09	1.06 Y	0.99	1.04	5.0%	
PCB-192 233'455'6'-HpCB	42.13	2.27E+09	1.06 Y	1.29	1.36	5.9%	
PCB-180/193 ...-HpCB	42.40	4.38E+09	1.06 Y	1.26	1.31	4.3%	
PCB-191 233'44'5'6'-HpCB	42.73	2.40E+09	1.06 Y	1.40	1.44	3.3%	
PCB-170 22'33'44'5'-HpCB	43.51	1.66E+09	1.05 Y	1.14	1.24	9.0%	
PCB-190 233'44'56'-HpCB	43.96	2.44E+09	1.05 Y	1.66	1.82	9.7%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-201 22'33'45'66'-OcCB	40.89	1.78E+09	0.92 Y	1.22	1.24	1.8%	
PCB-204 22'344'566'-OcCB	41.47	1.66E+09	0.92 Y	1.12	1.16	3.8%	
PCB-197 22'33'44'66'-OcCB	41.66	1.80E+09	0.92 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.75	1.68E+09	0.92 Y	1.11	1.17	6.1%	
PCB-198/199 ...-OcCB	44.07	2.46E+09	0.91 Y	0.81	0.86	5.9%	
PCB-196 22'33'44'56'-OcCB	44.65	1.24E+09	0.91 Y	0.83	0.87	3.9%	
PCB-203 22'344'55'6'-OcCB	44.82	1.30E+09	0.92 Y	0.87	0.91	4.0%	
PCB-195 22'33'44'56'-OcCB	45.95	1.40E+09	0.92 Y	0.77	0.82	6.5%	
PCB-194 22'33'44'55'-OcCB	47.89	1.50E+09	0.93 Y	0.84	0.88	4.1%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-207 22'33'44'566'-NoCB	46.53	2.03E+09	0.79 Y	1.19	1.24	4.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
User: LKB Datafile: 131220X08



SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

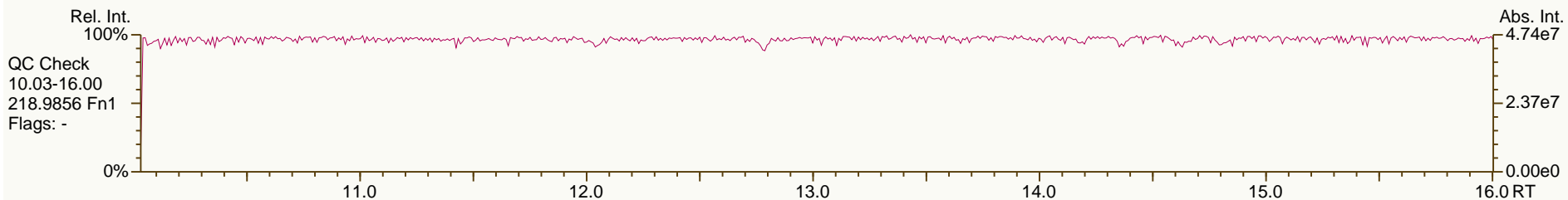
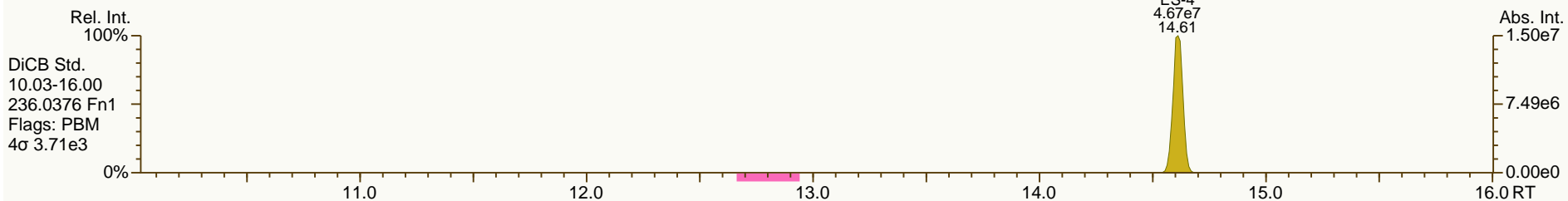
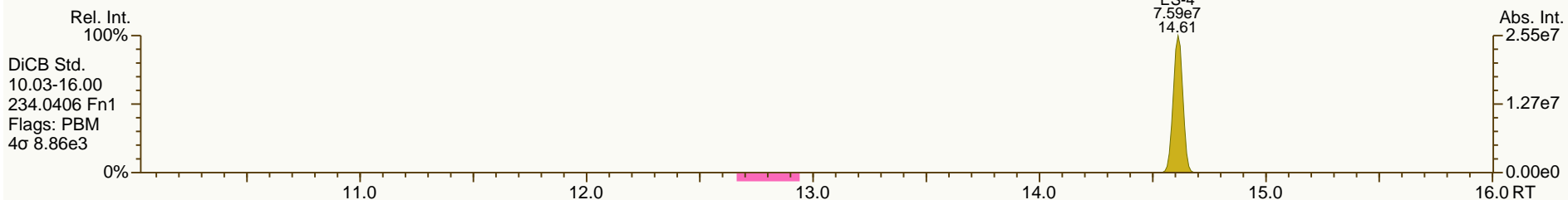
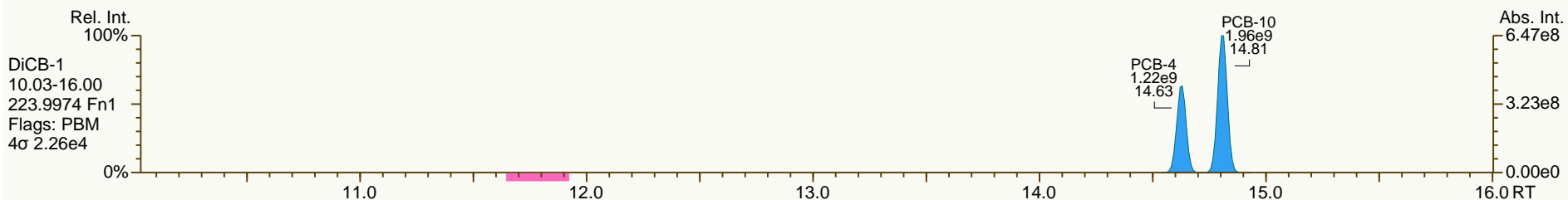
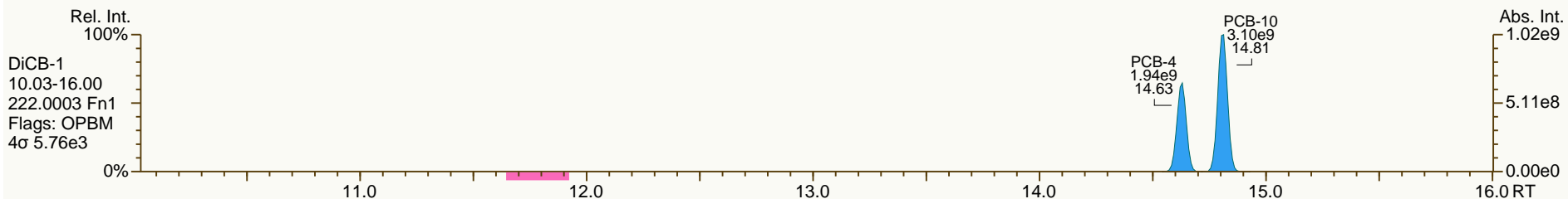
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

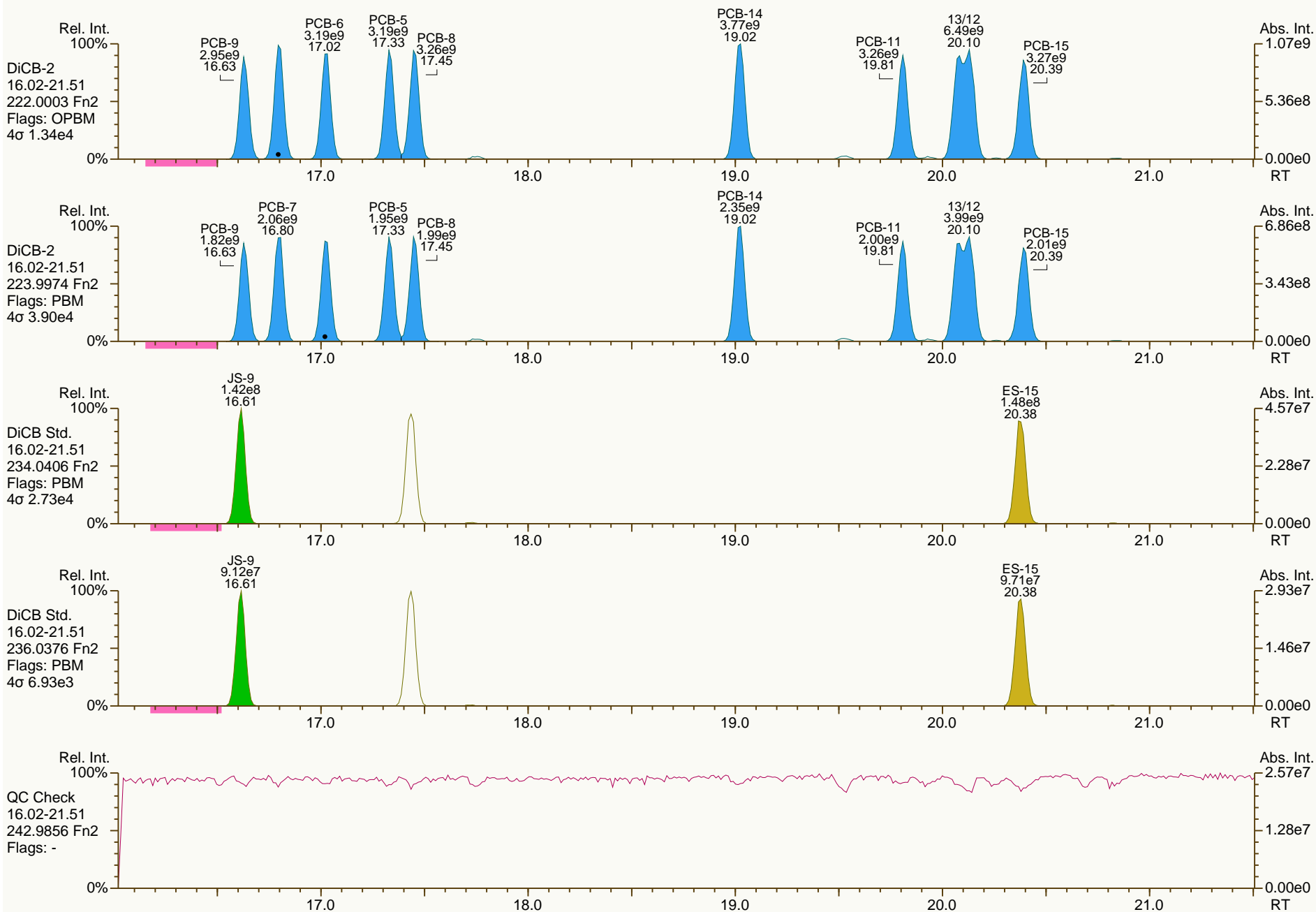
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
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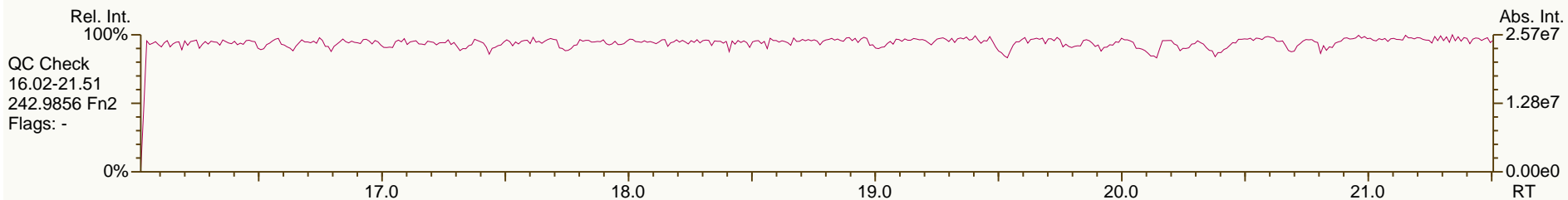
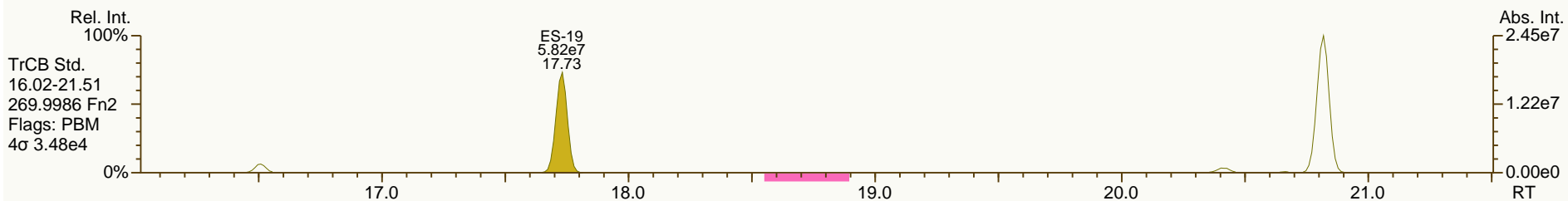
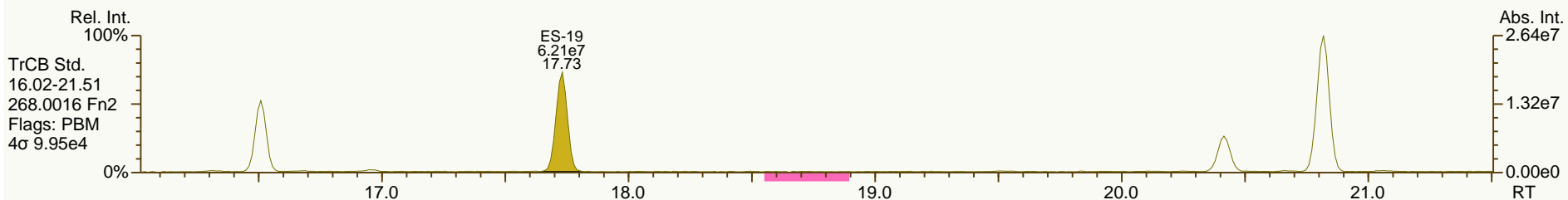
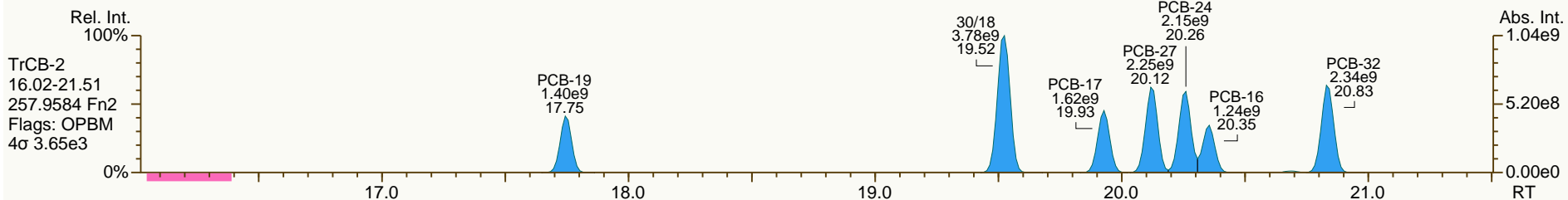
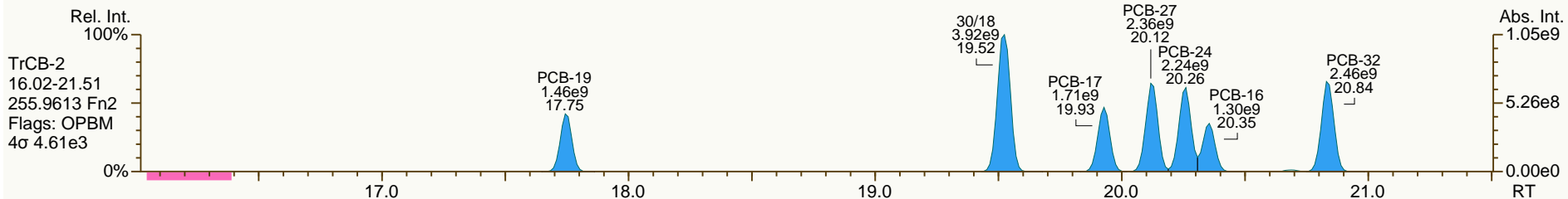




SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

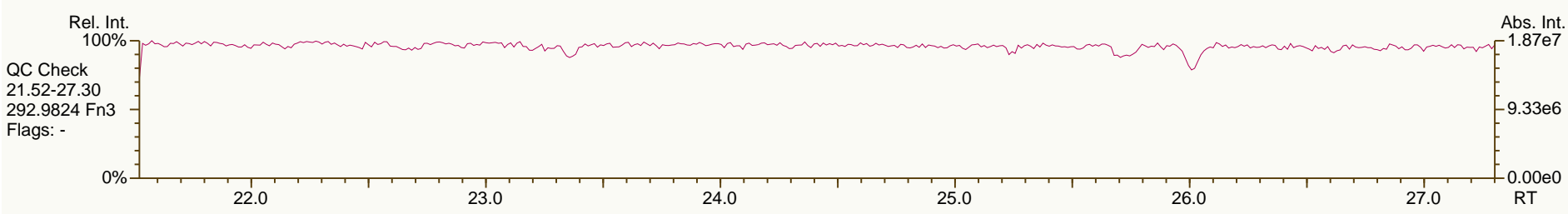
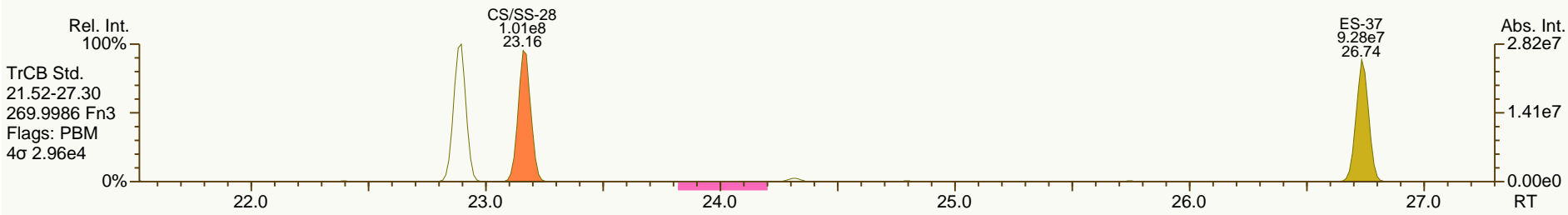
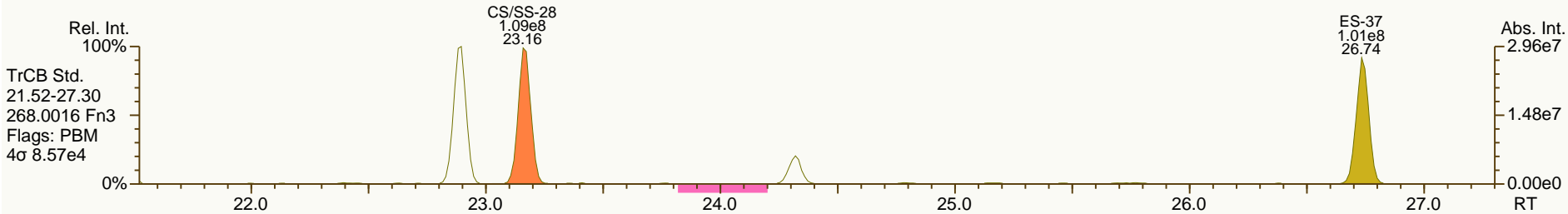
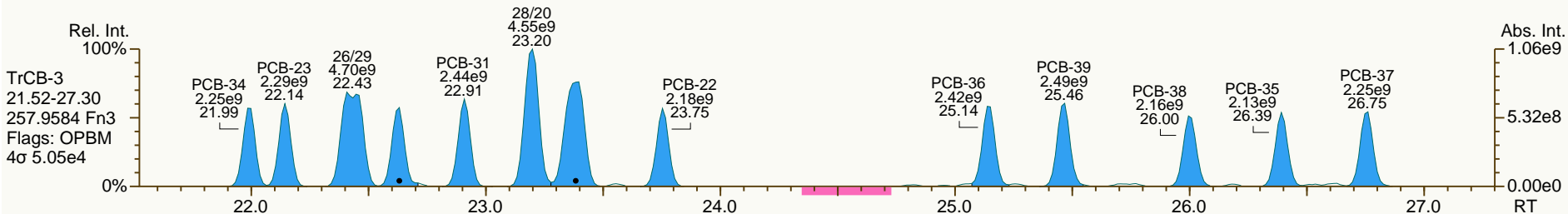
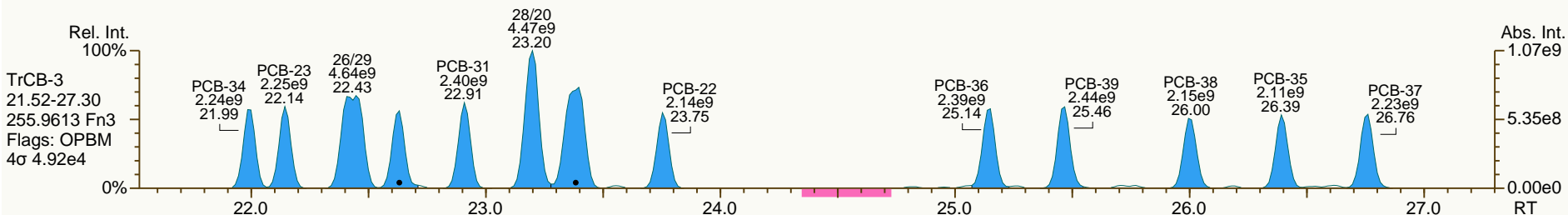
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
User: LKB Datafile: 131220X08



SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

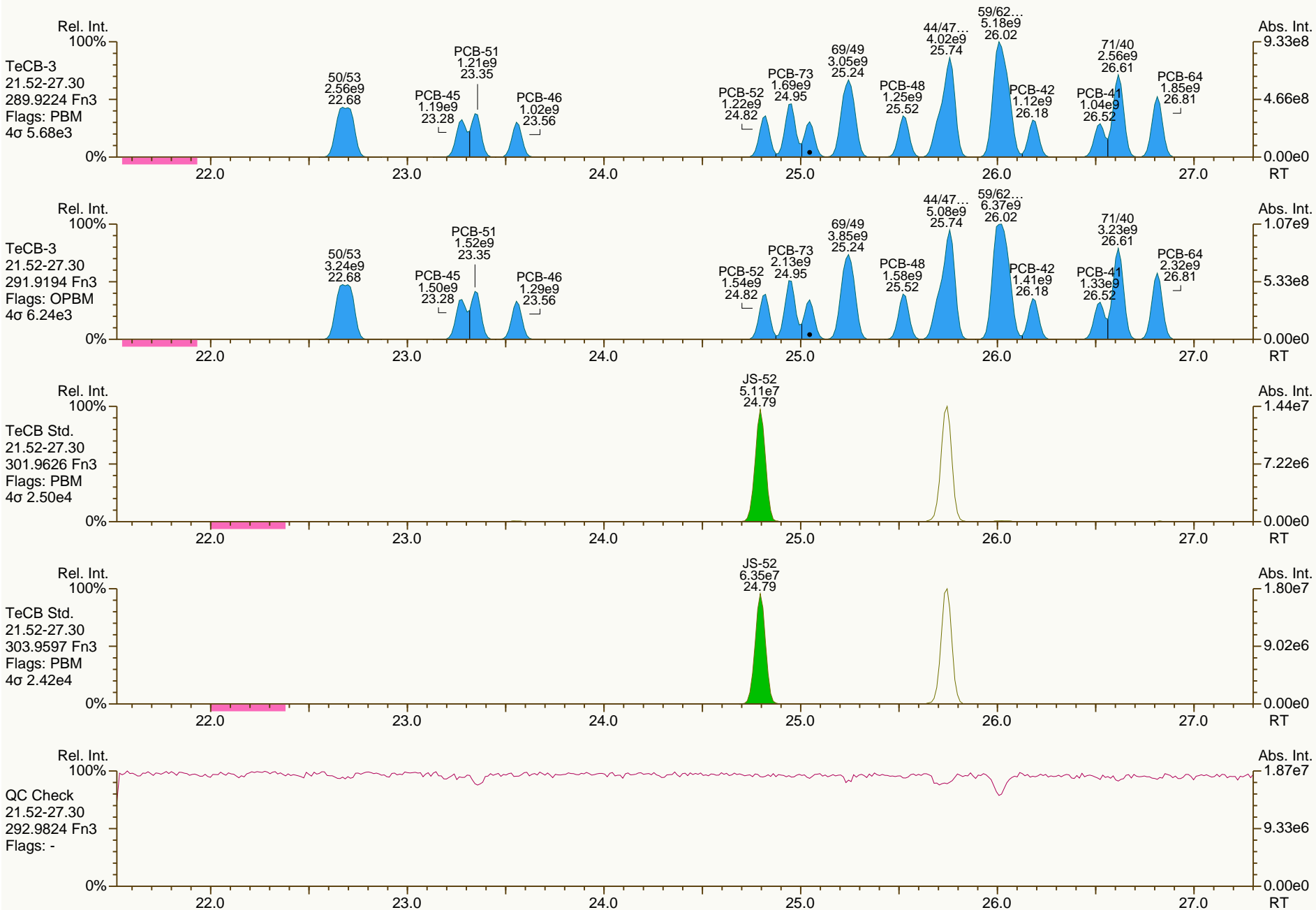
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

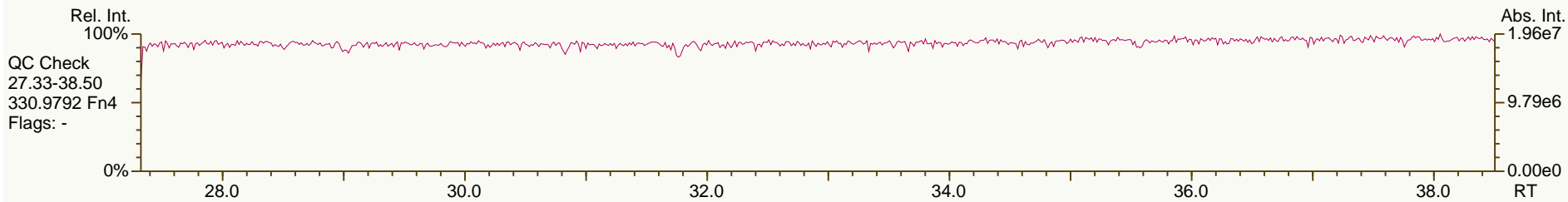
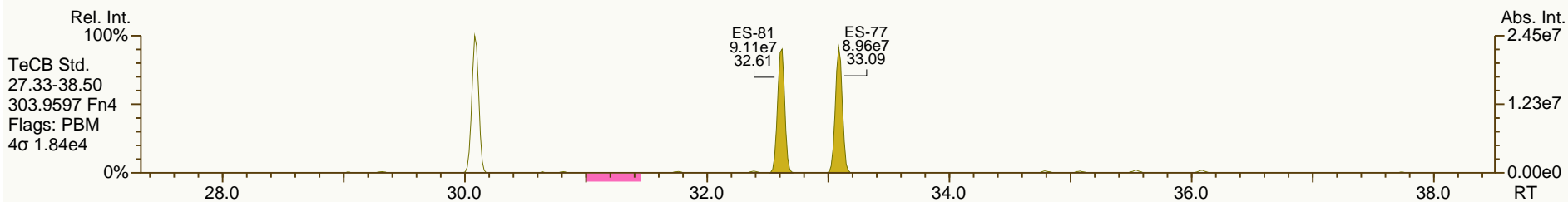
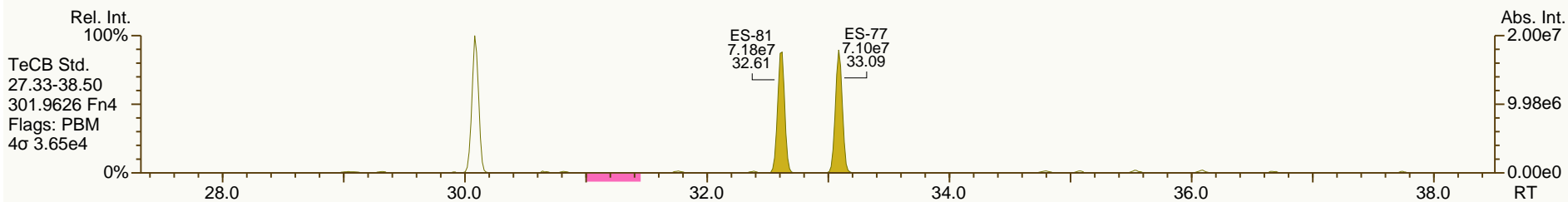
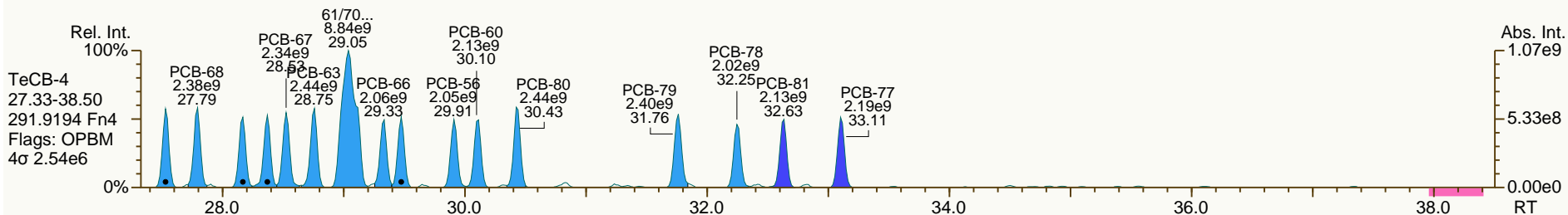
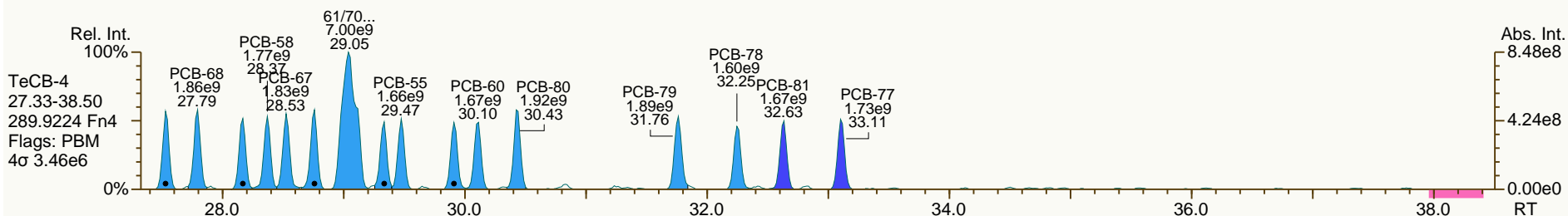
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

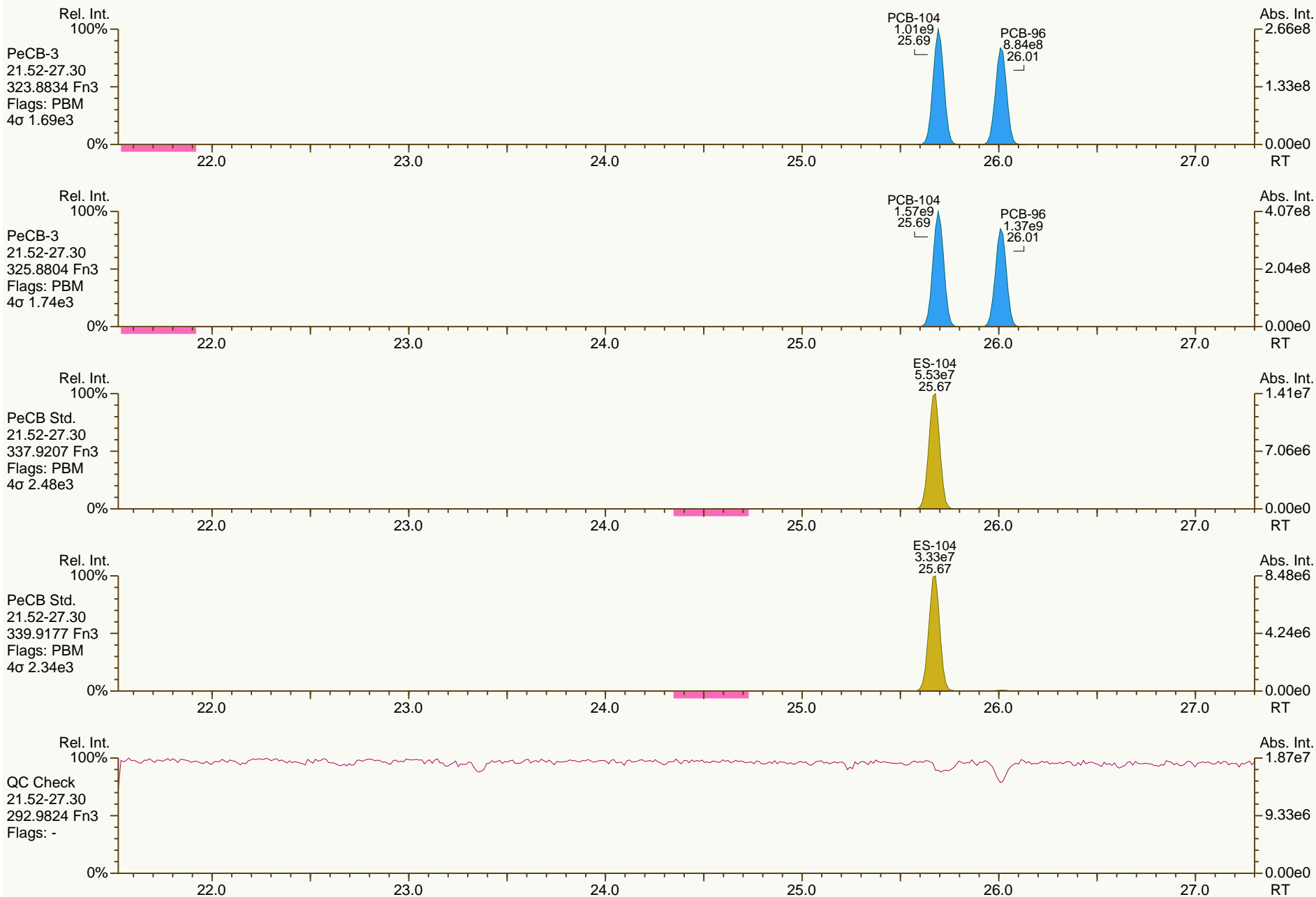
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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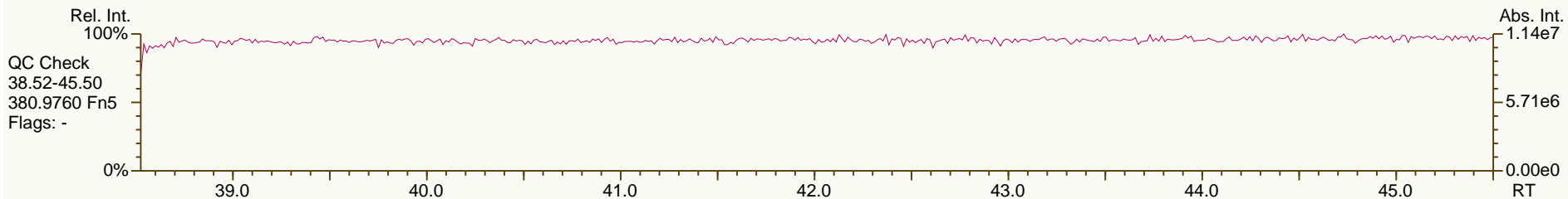
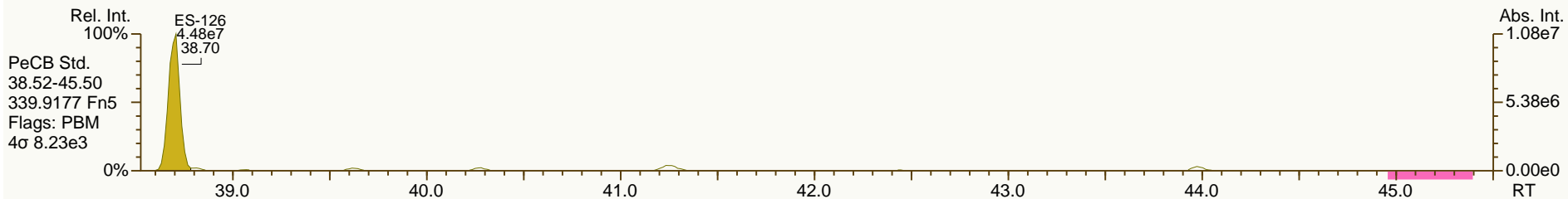
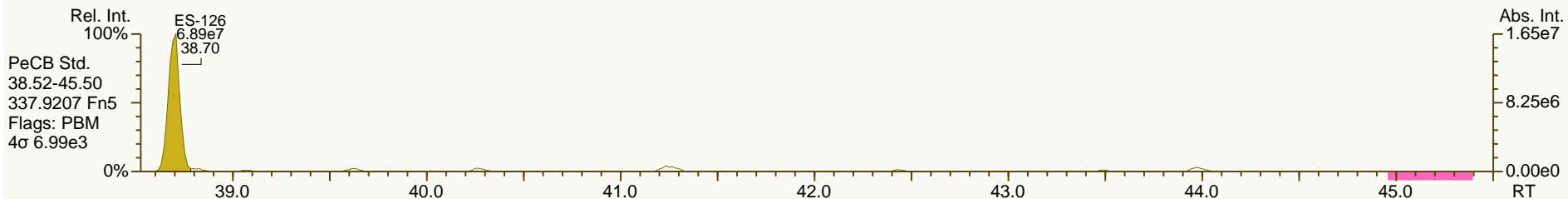
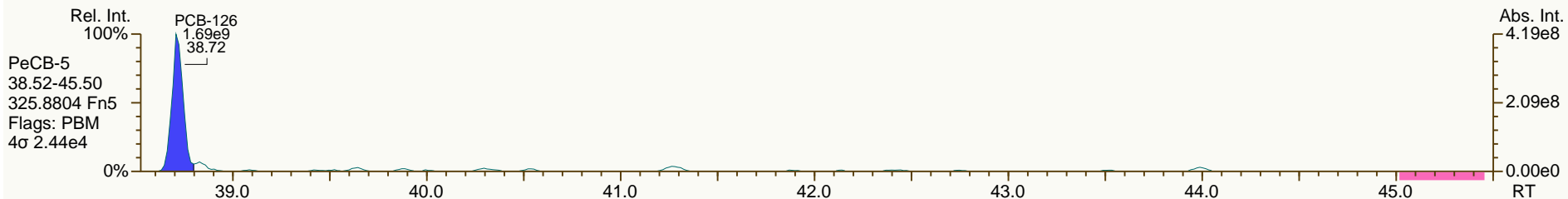
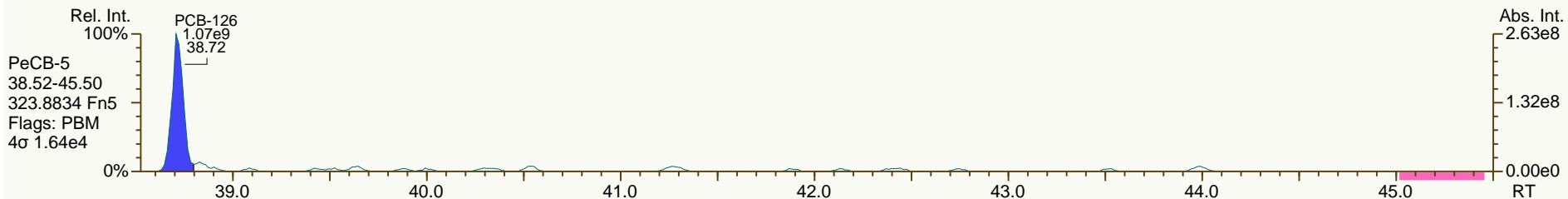
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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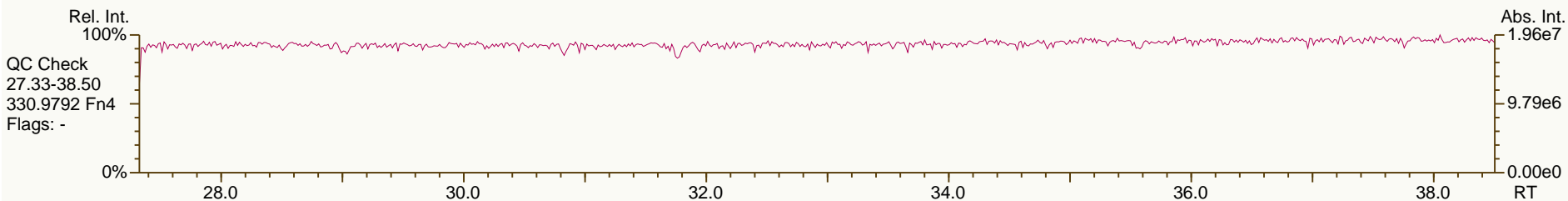
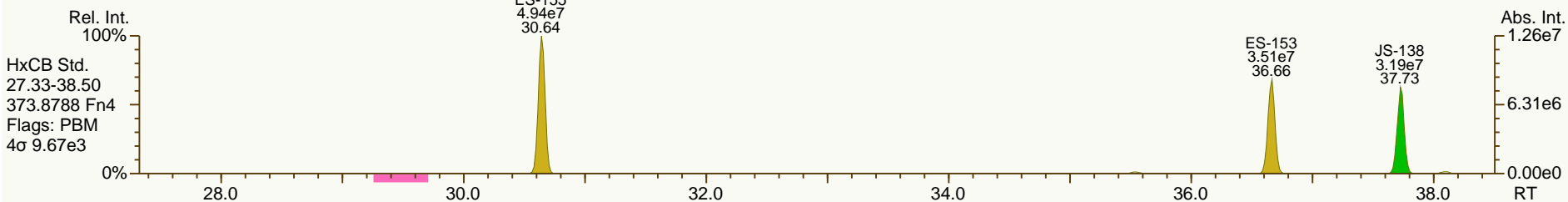
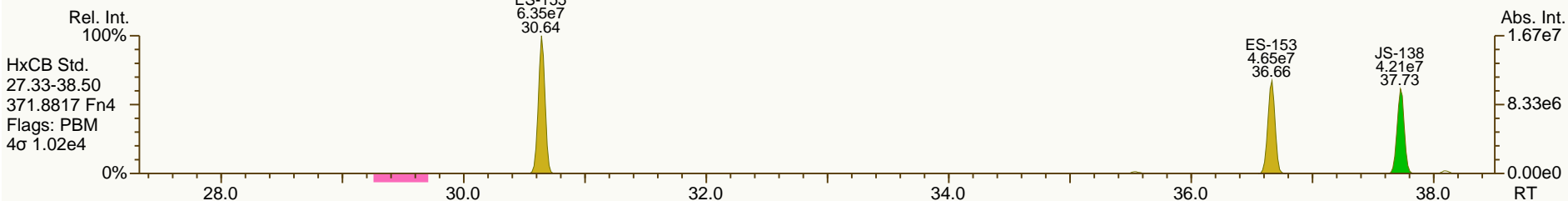
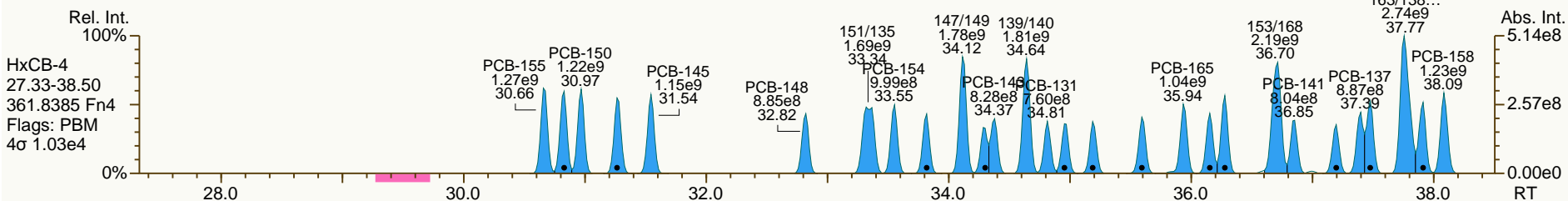
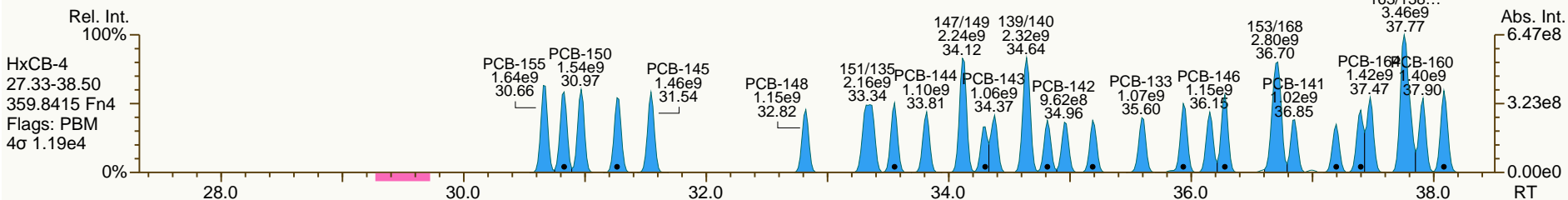




SGS-AP ID: CS5\_131220\_PCB\_XA  
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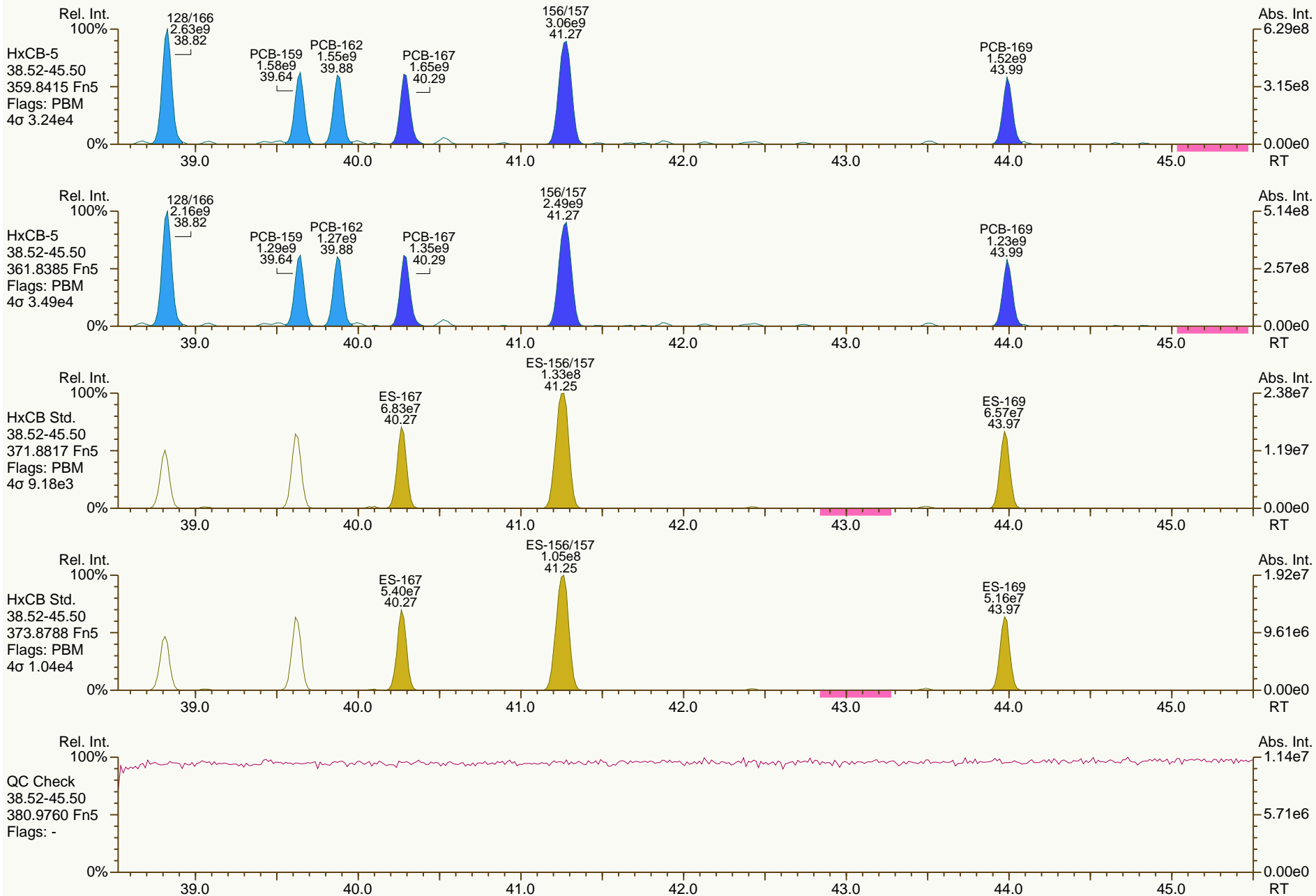
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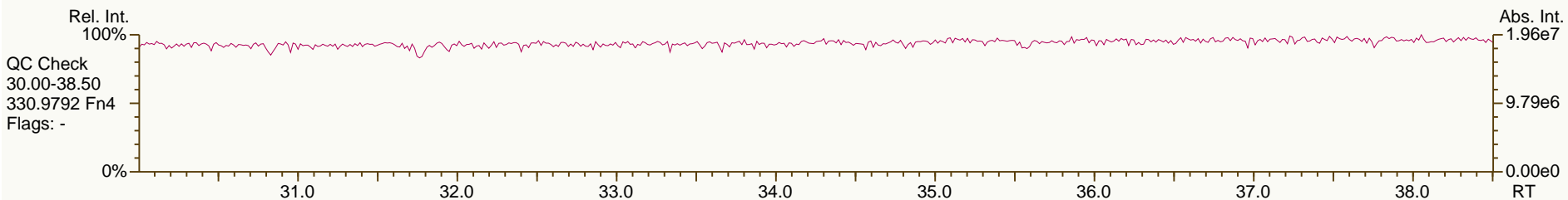
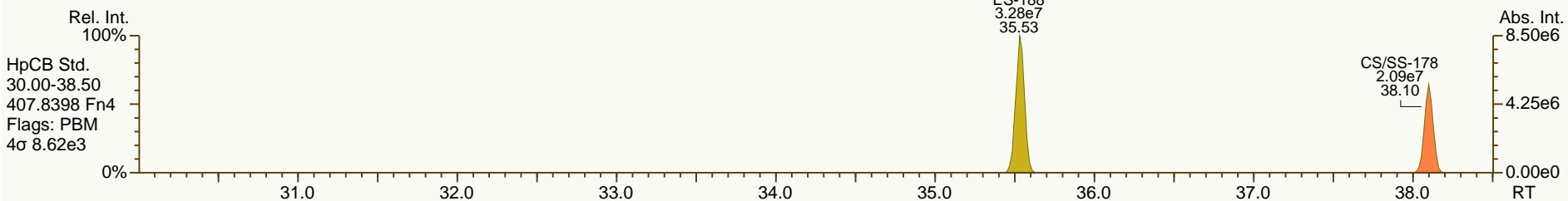
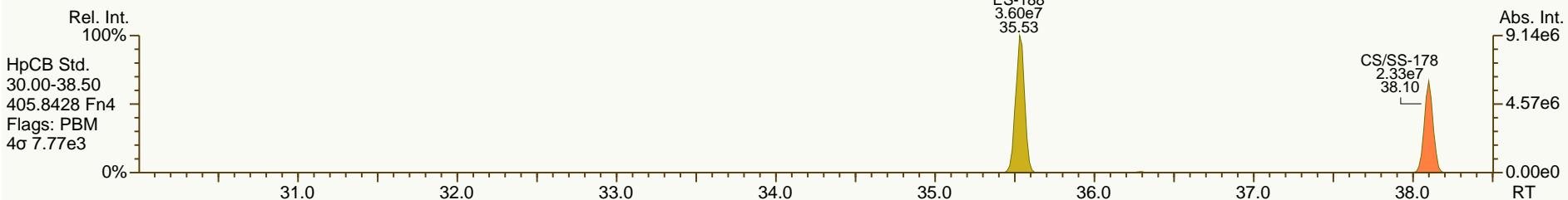
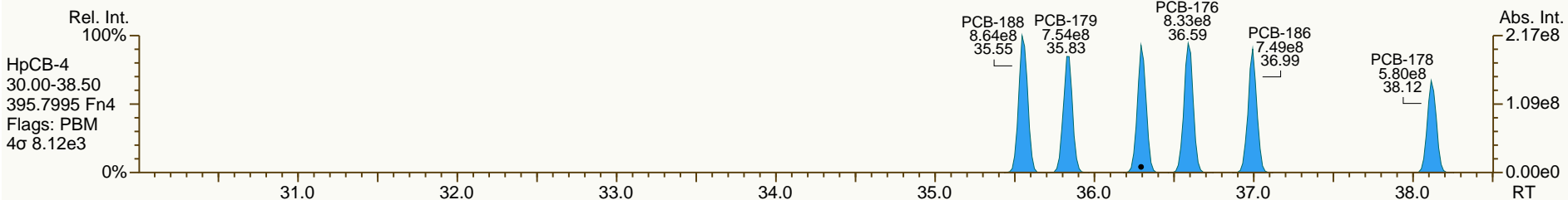
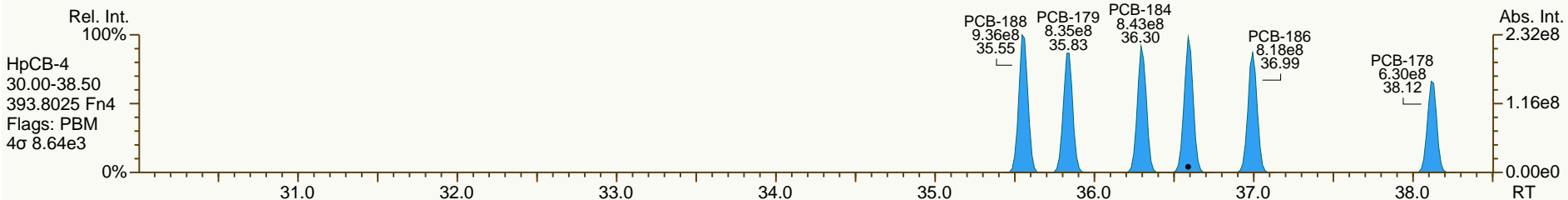
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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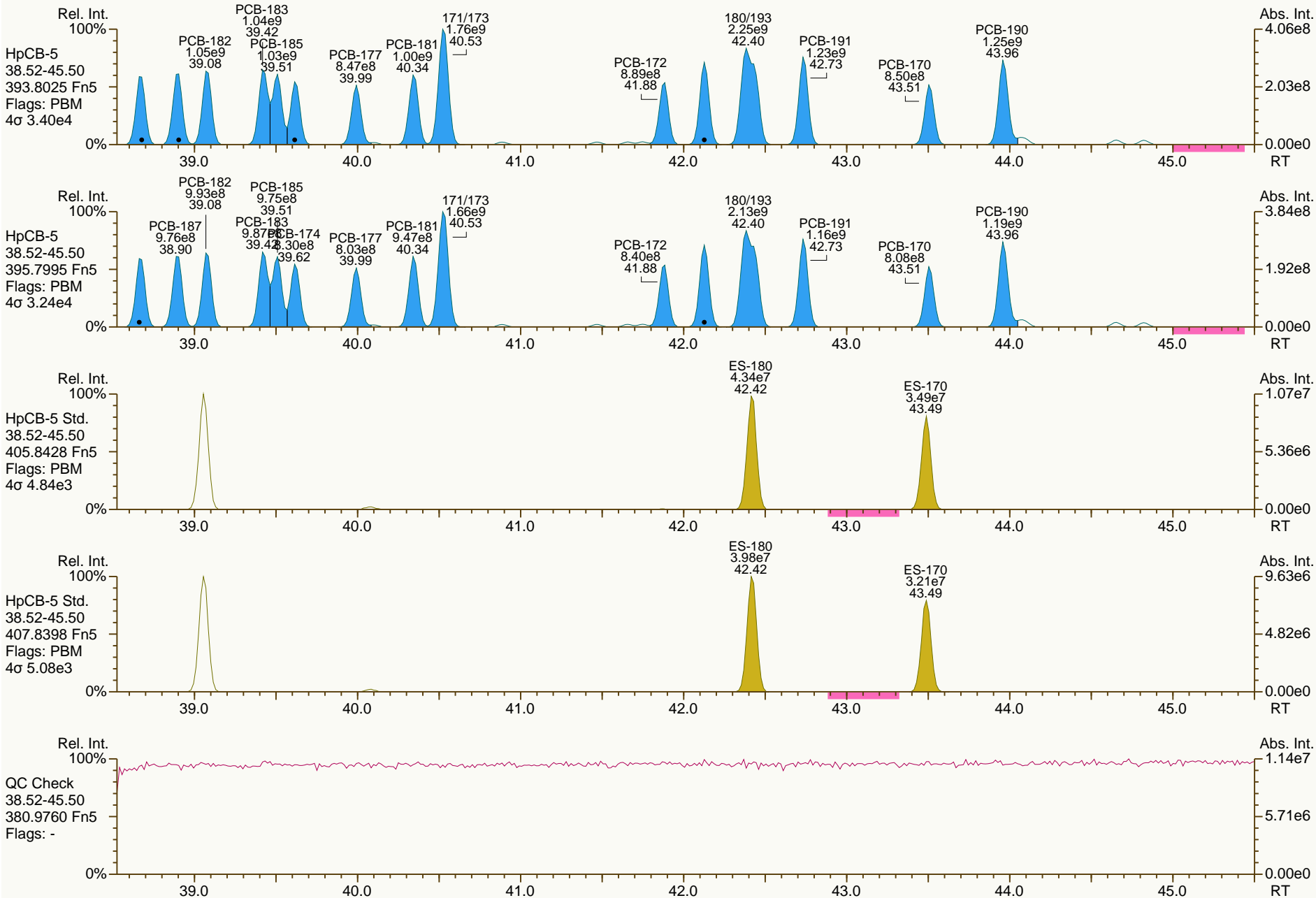
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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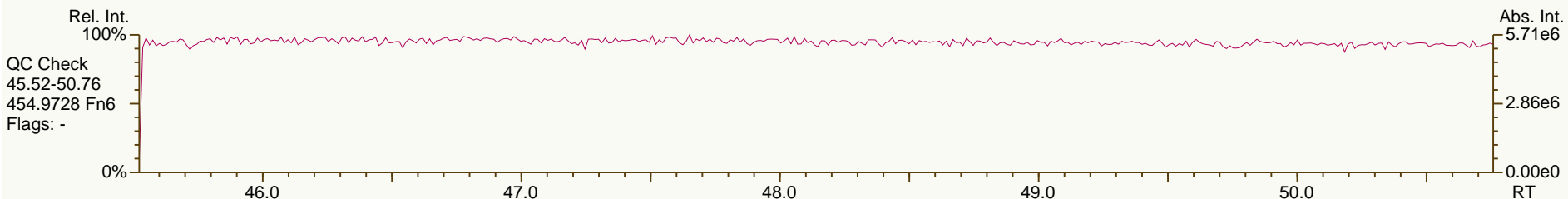
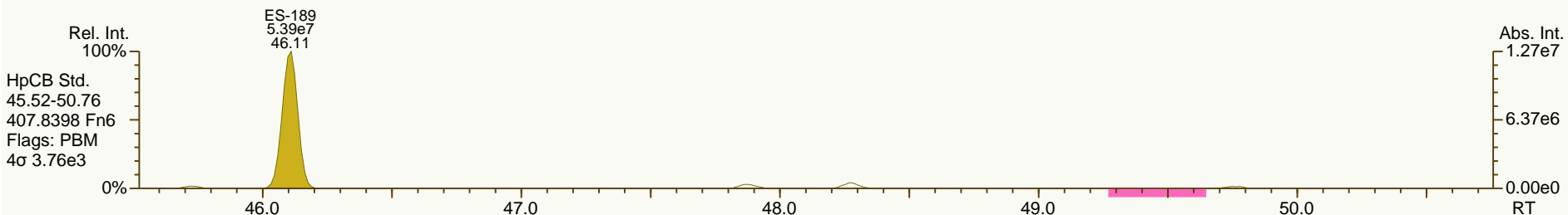
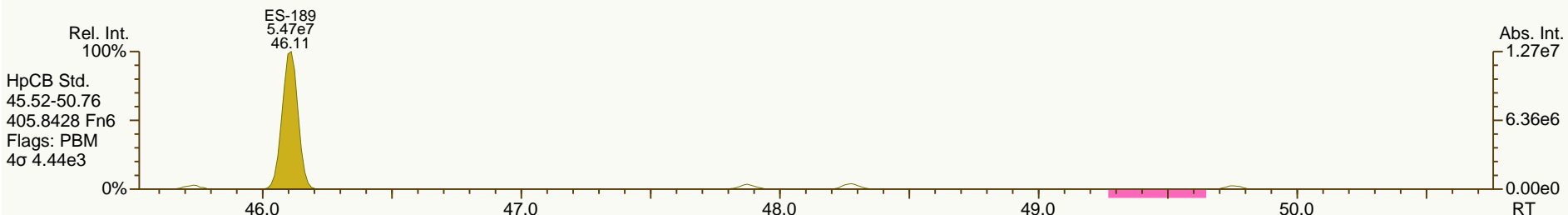
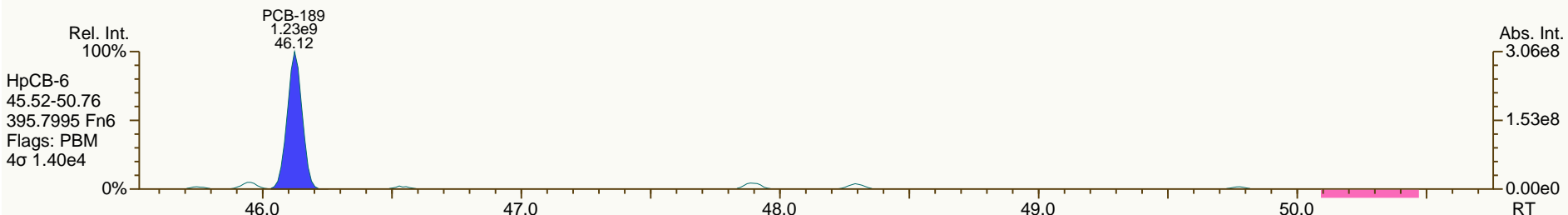
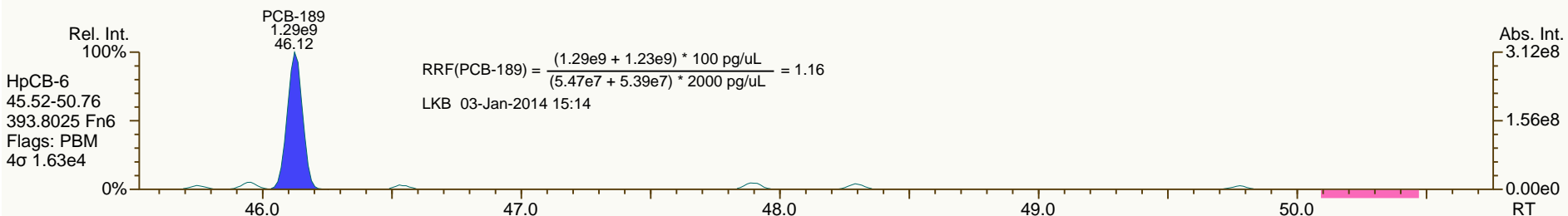
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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SGS-AP ID: CS5\_131220\_PCB\_XA  
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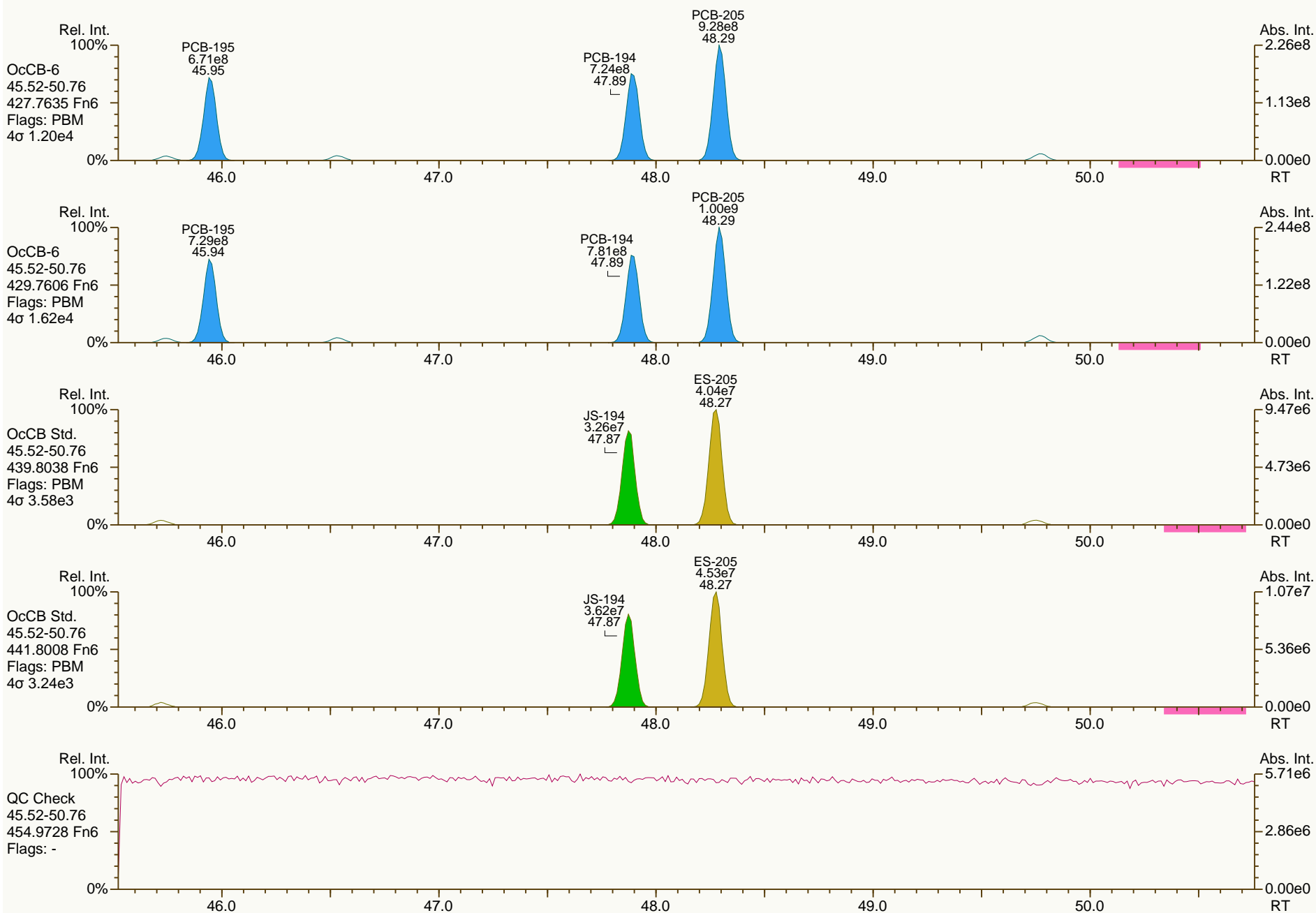
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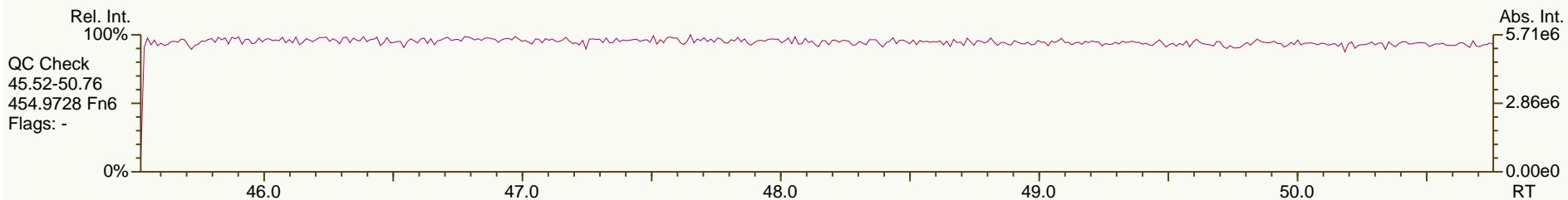
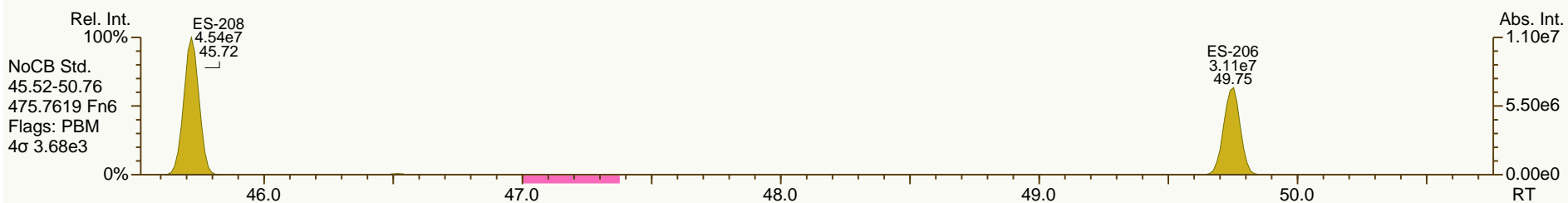
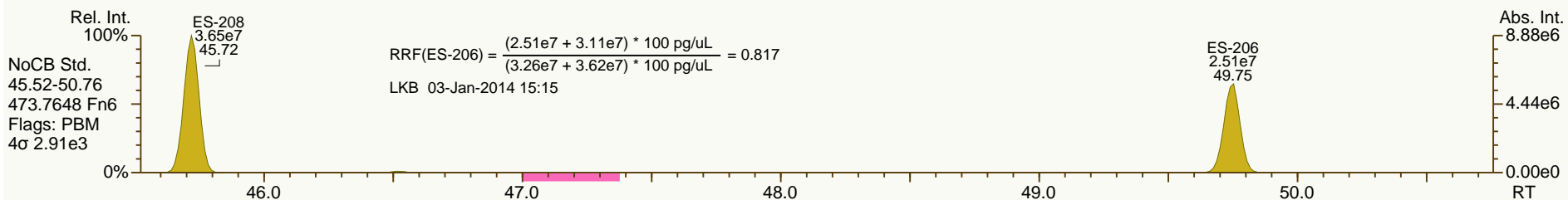
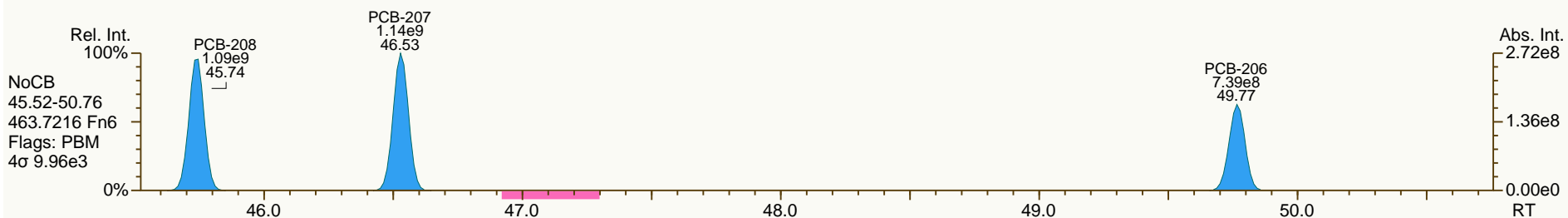
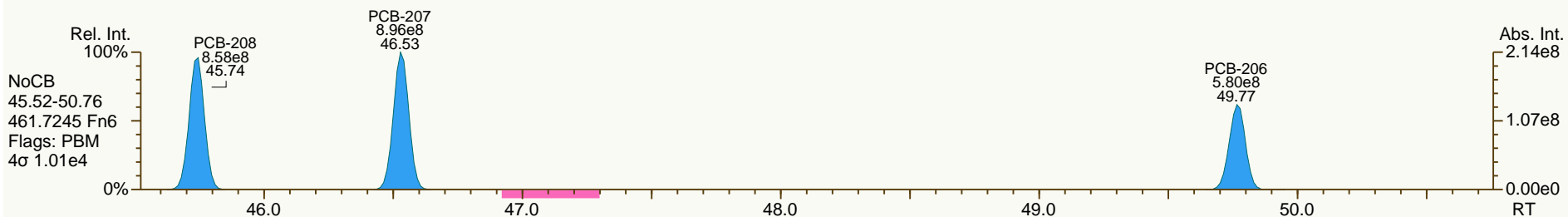
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
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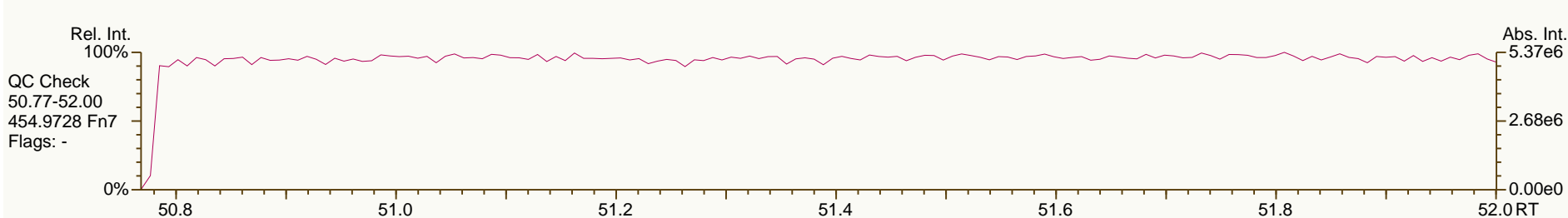
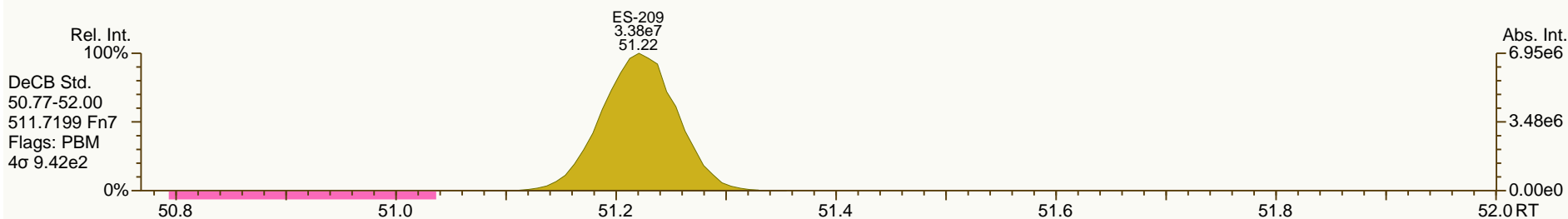
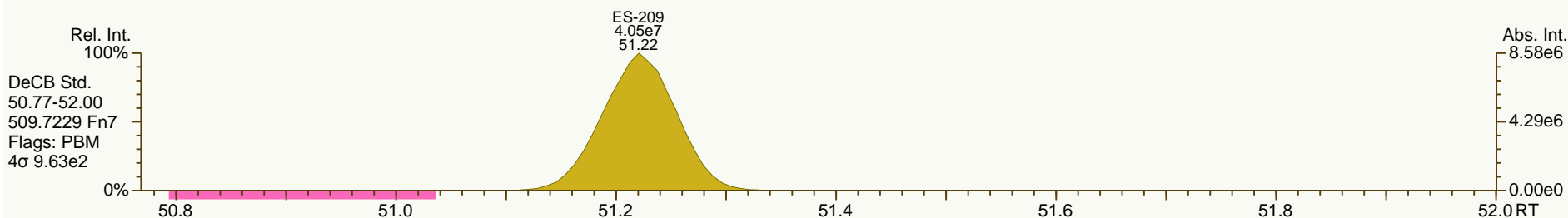
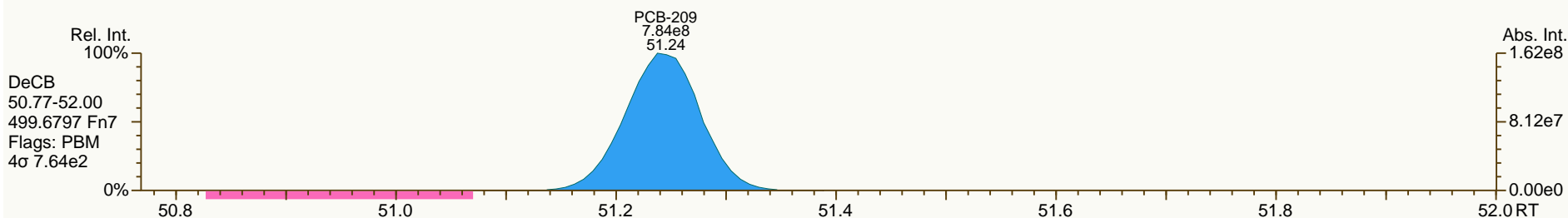
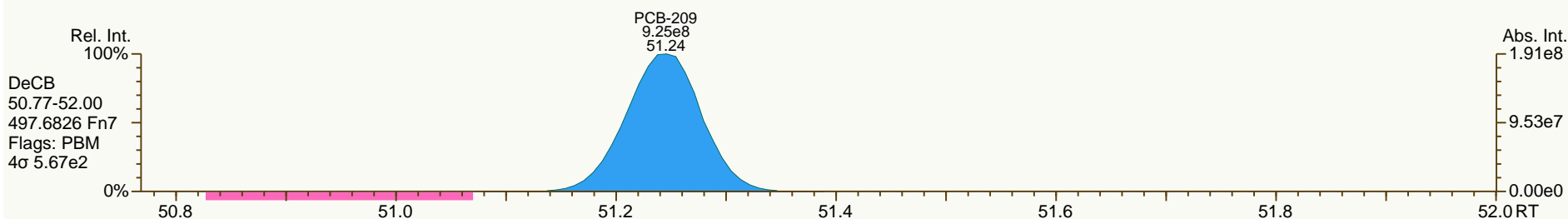




SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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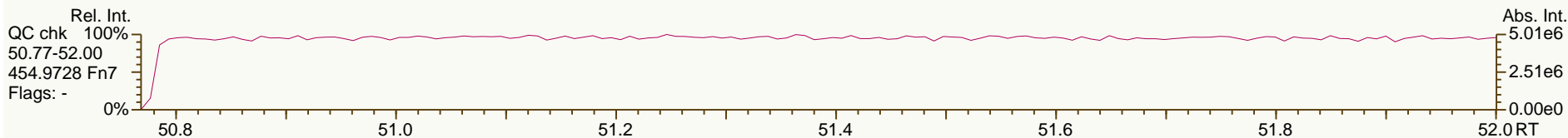
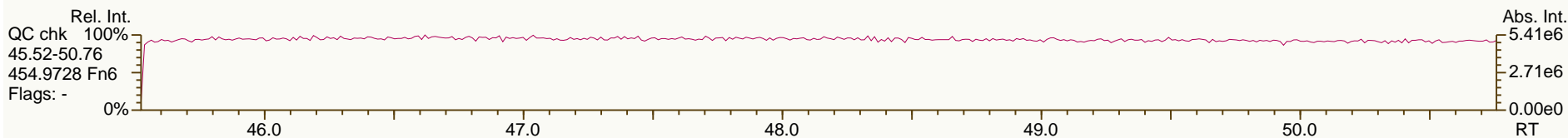
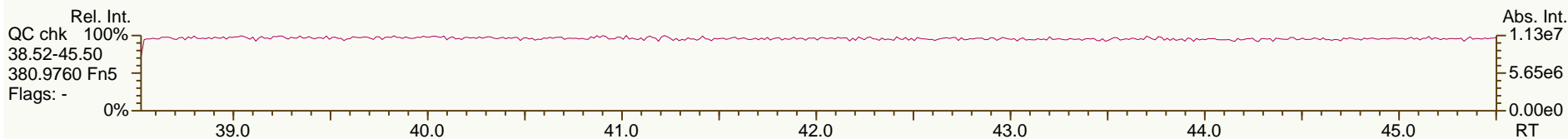
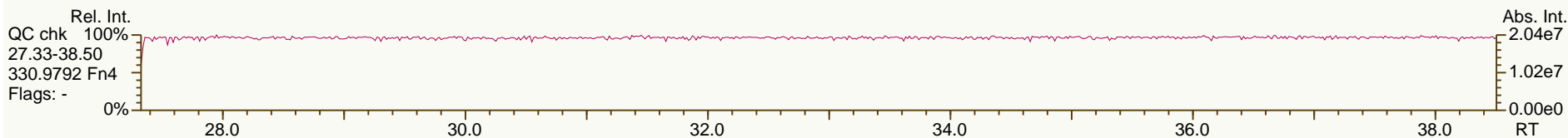
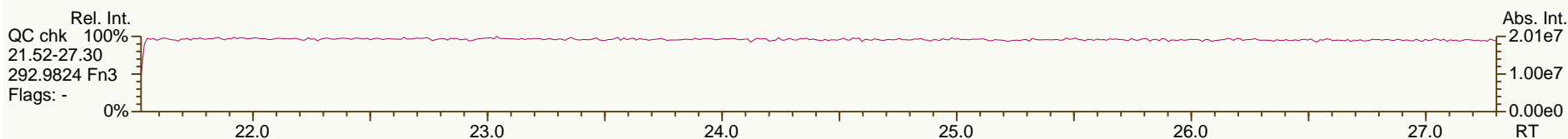
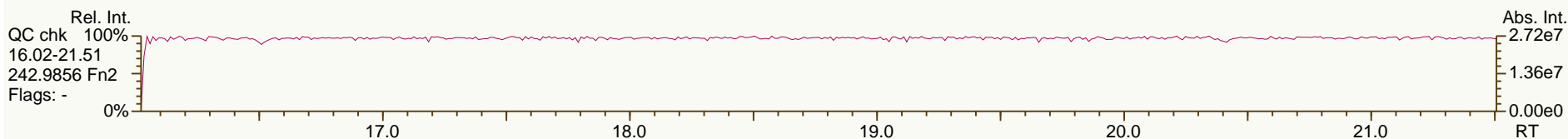
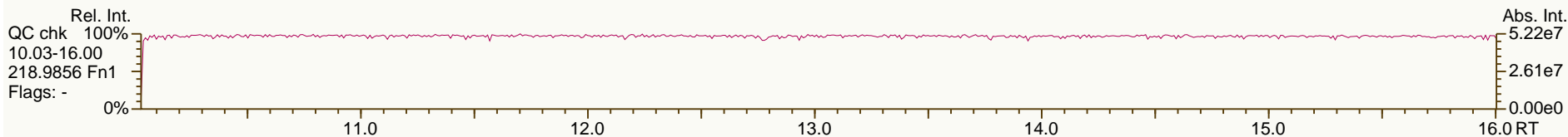
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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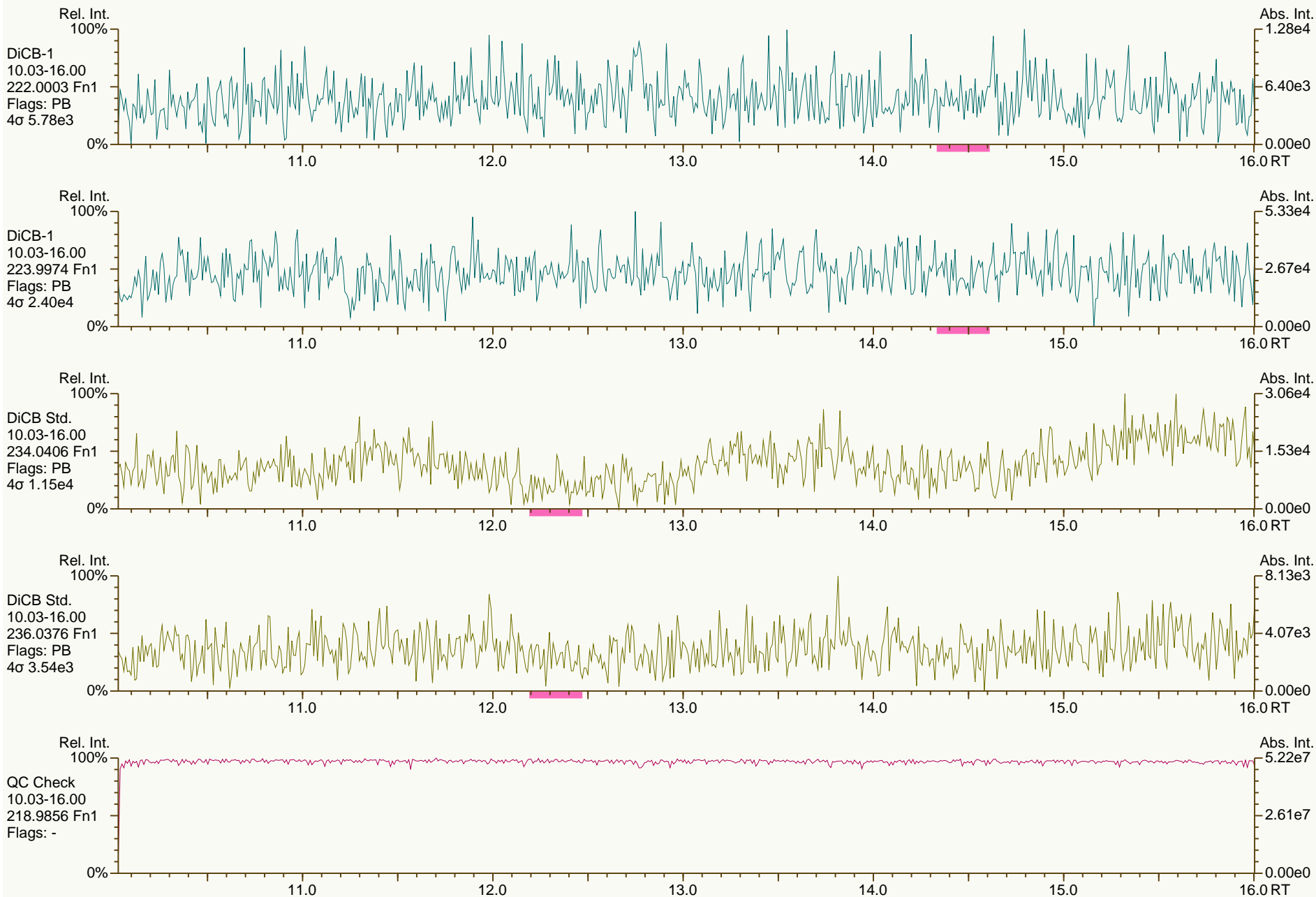
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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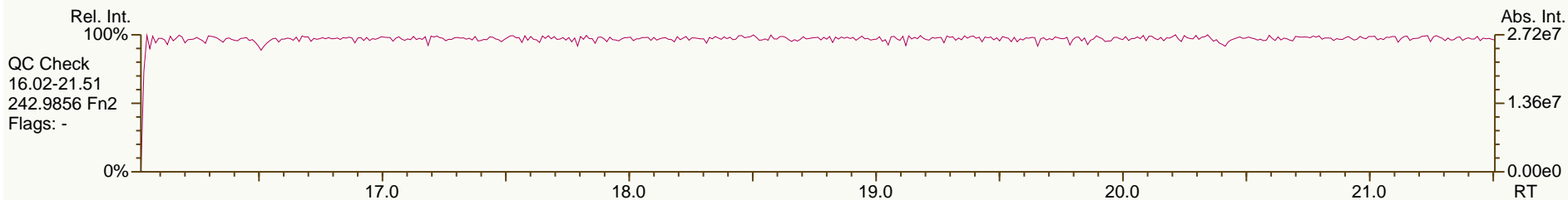
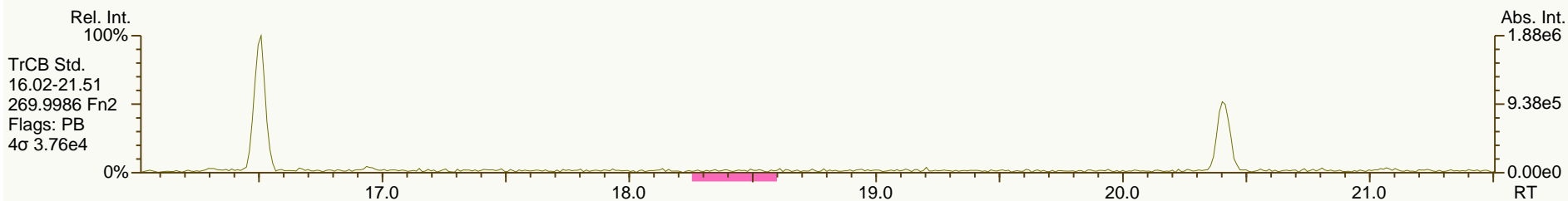
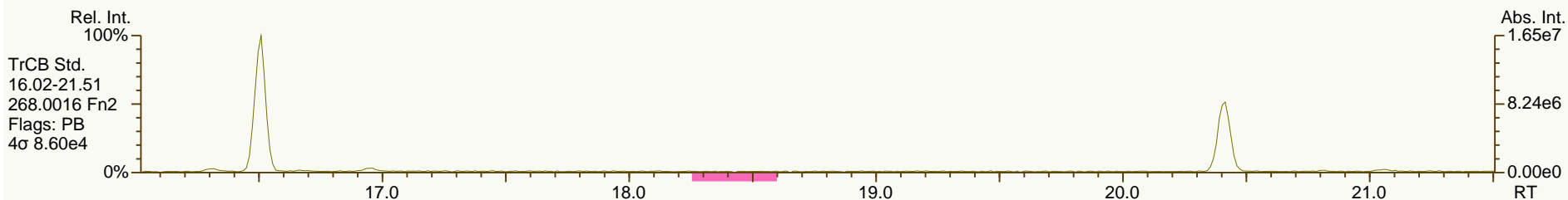
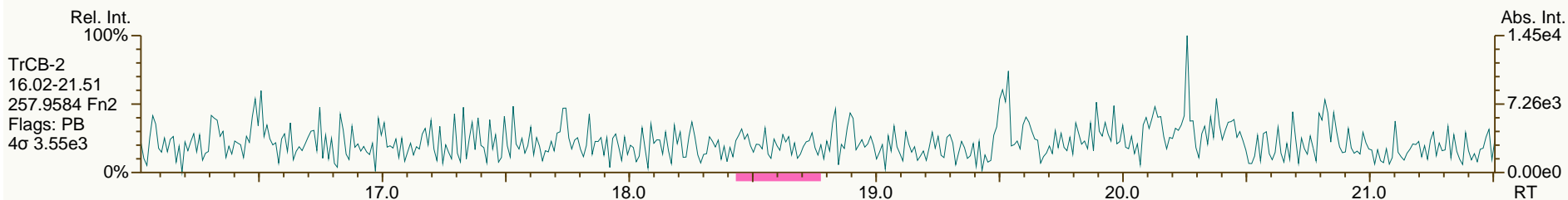
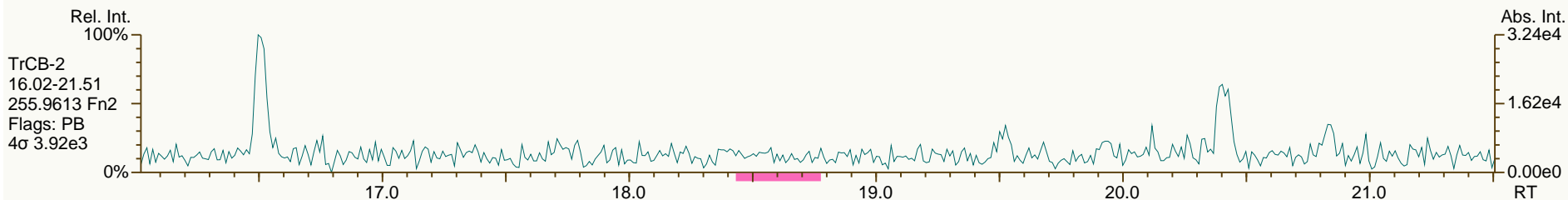
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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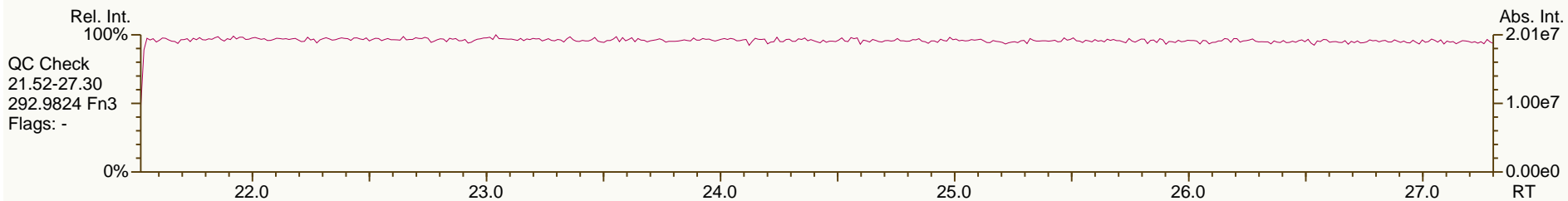
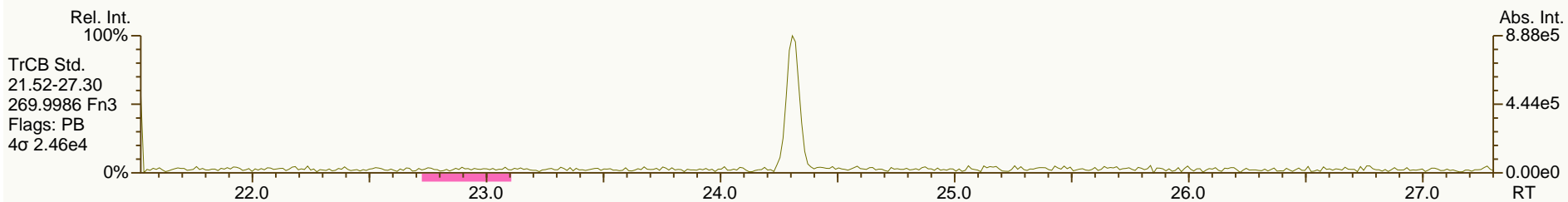
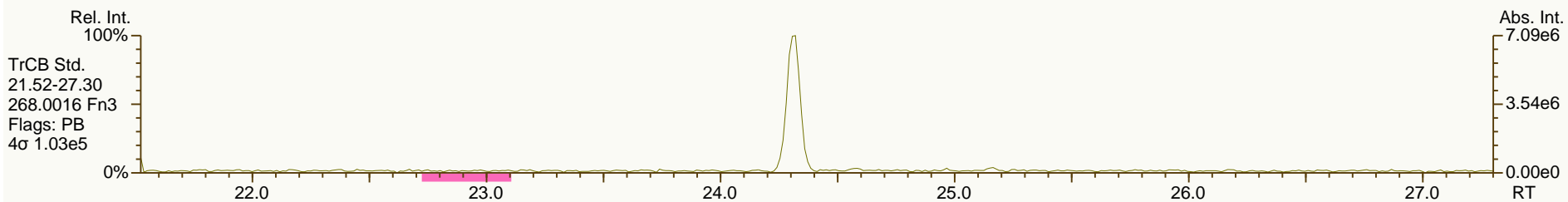
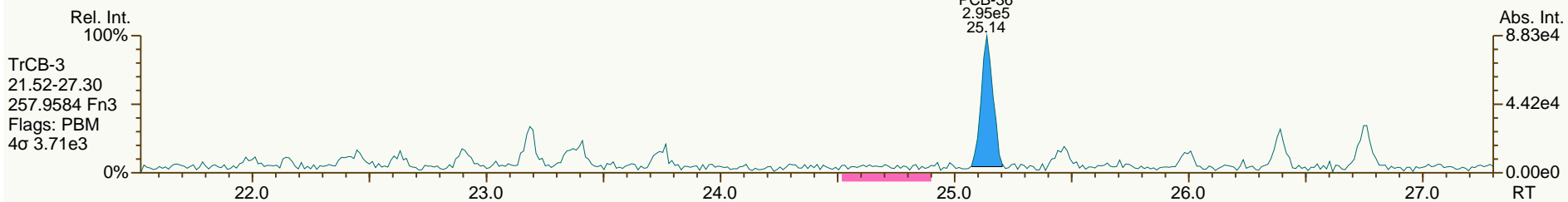
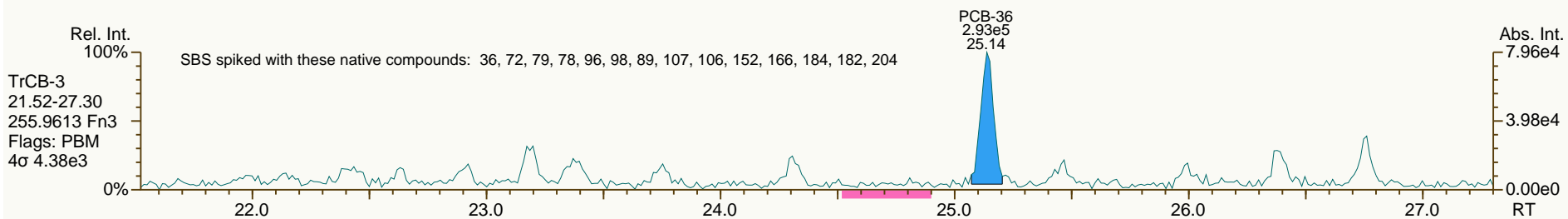
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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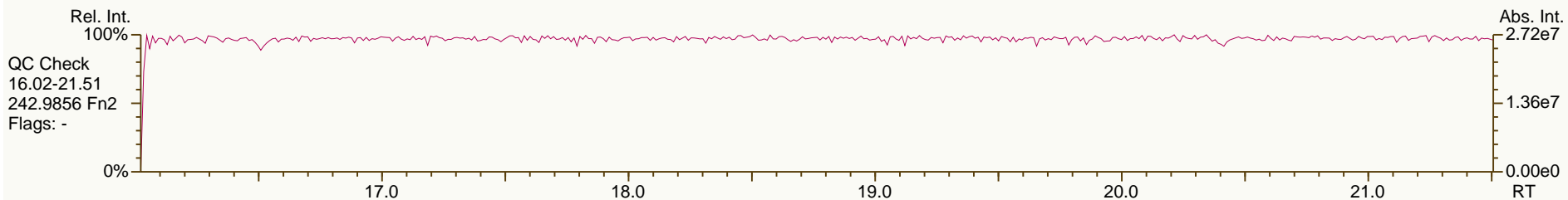
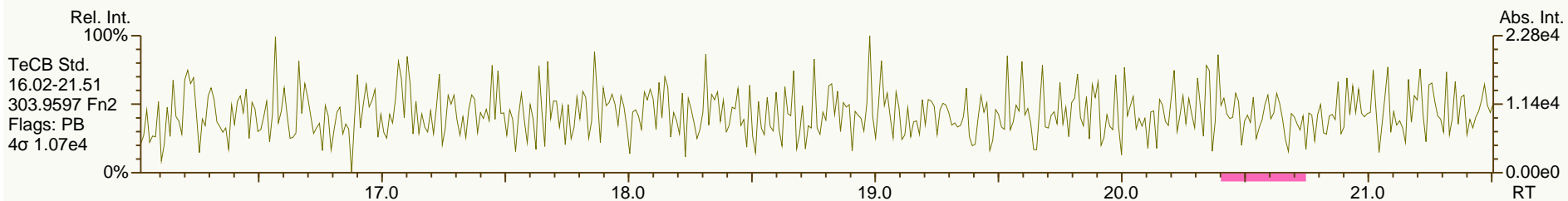
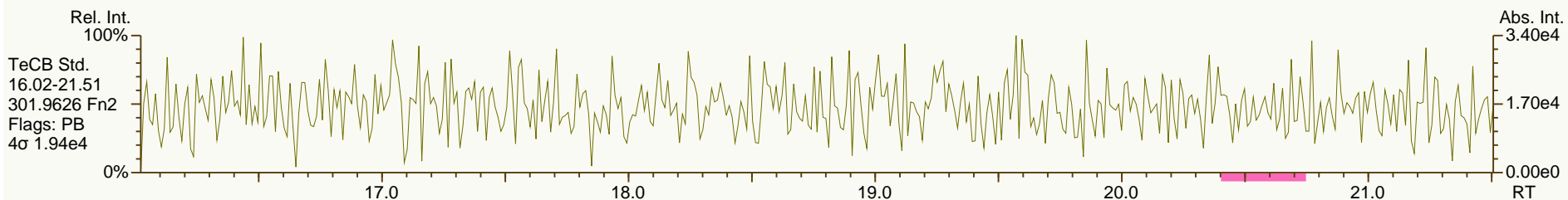
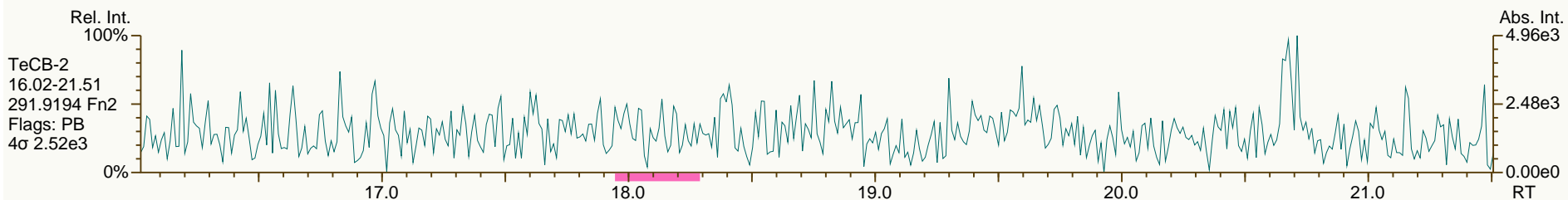
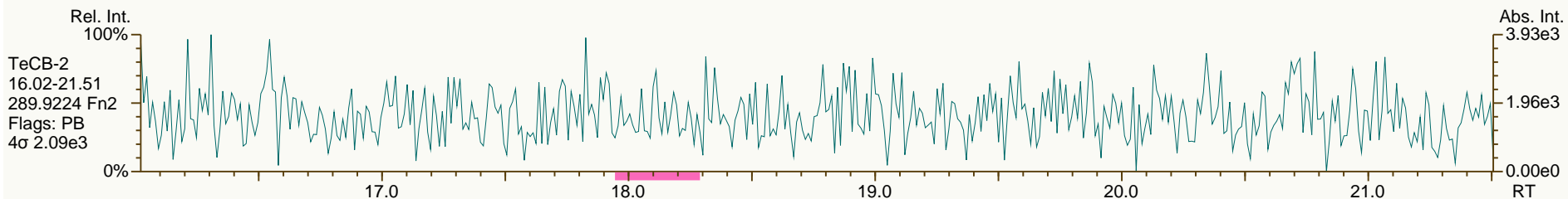
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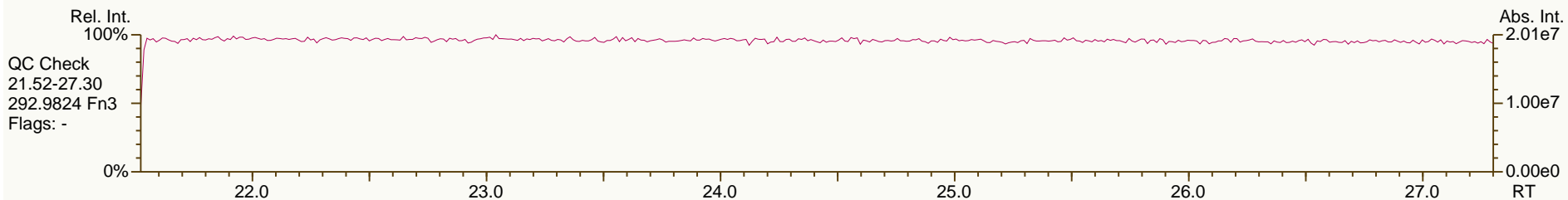
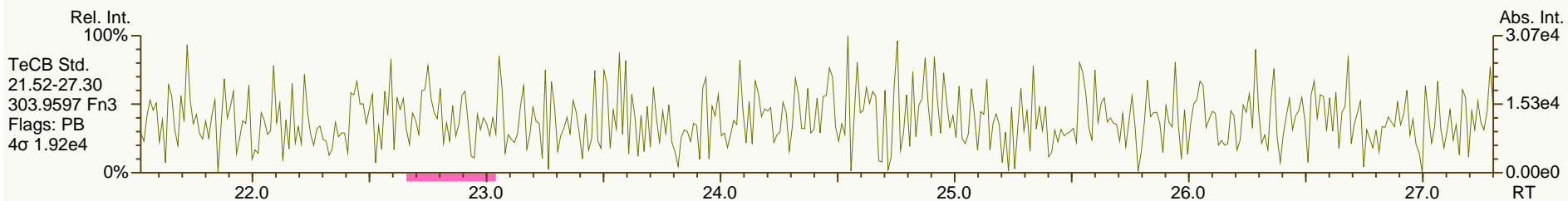
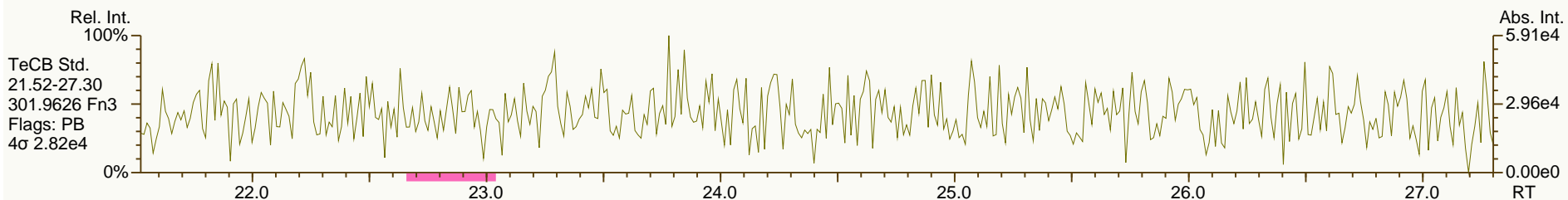
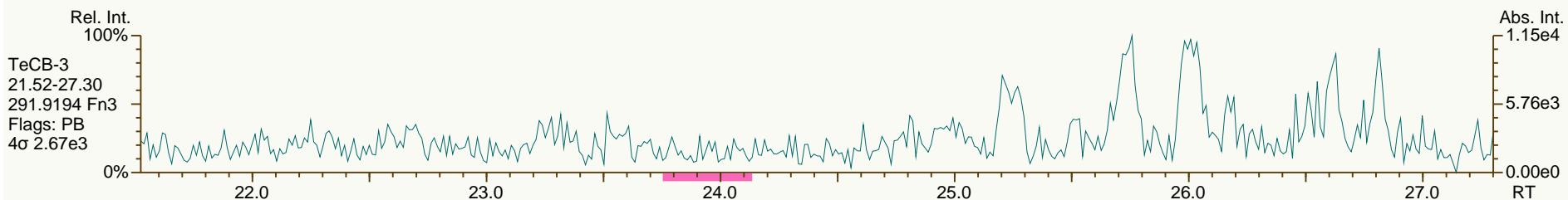
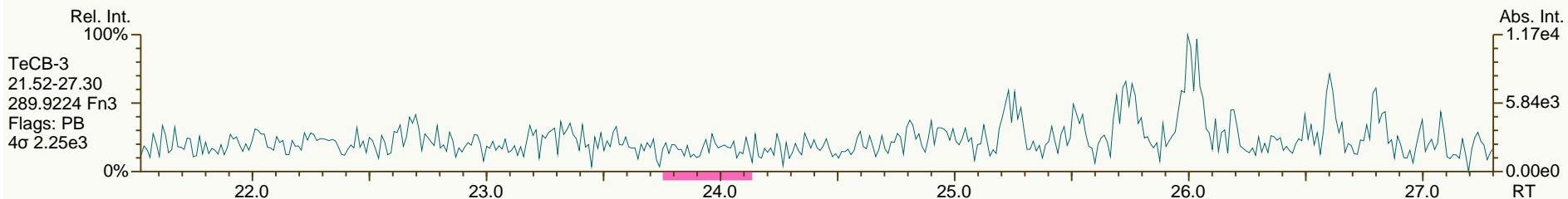




SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

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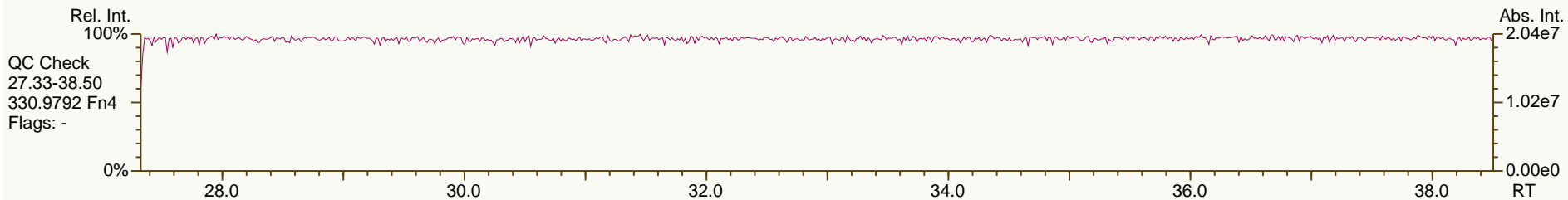
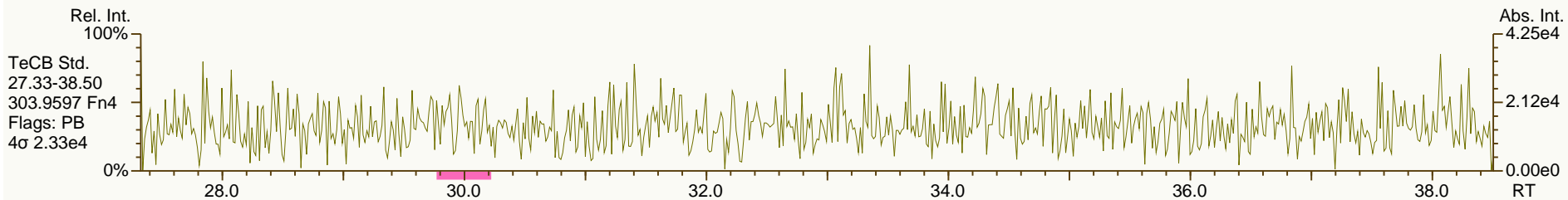
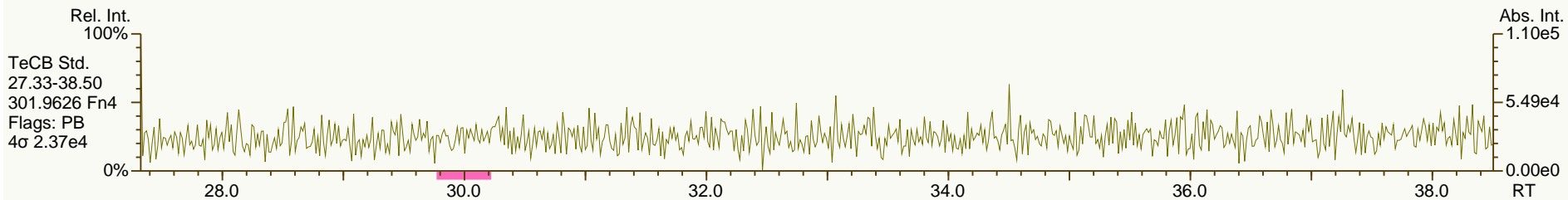
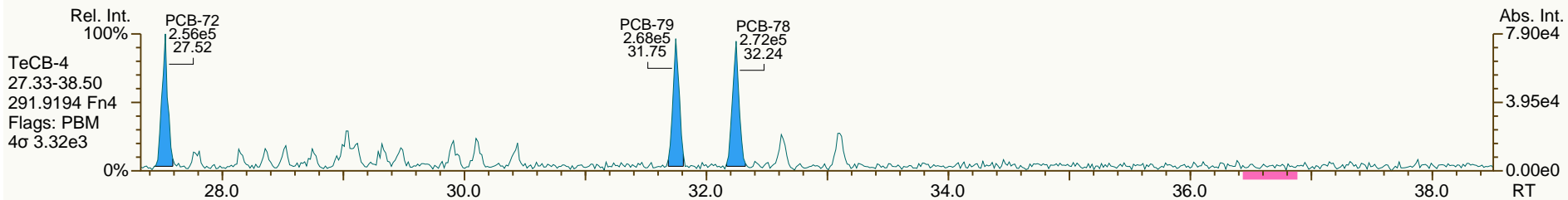
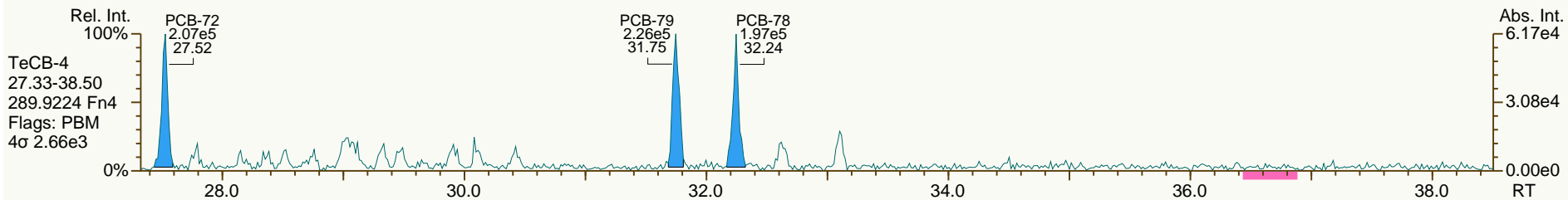
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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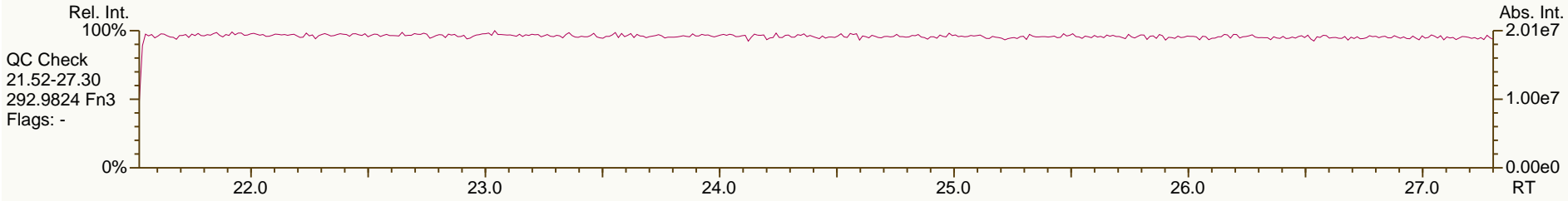
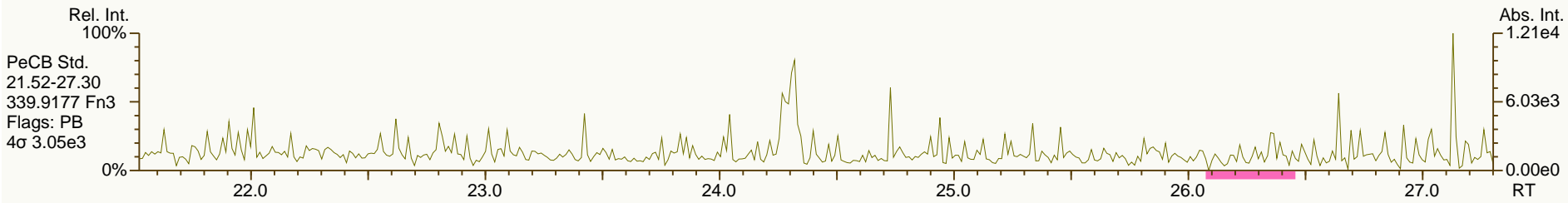
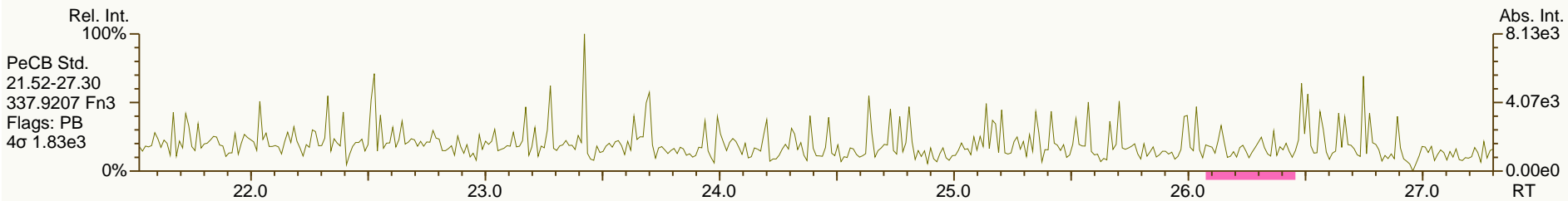
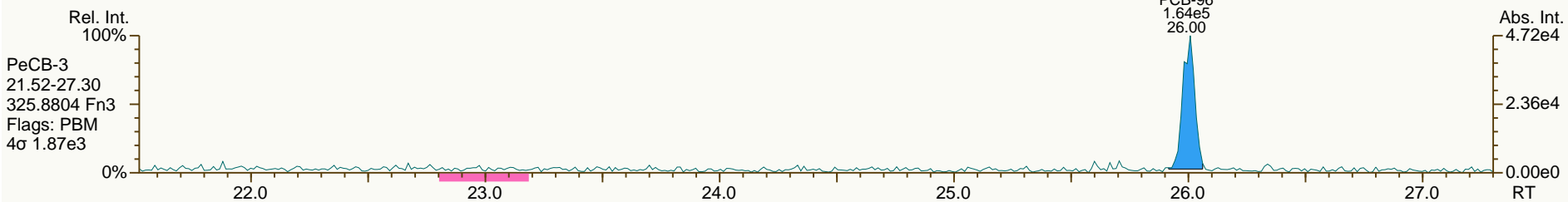
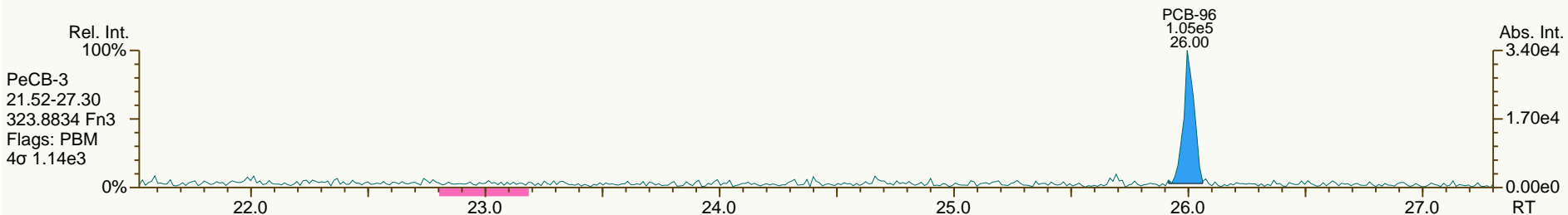
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 User: LKB Datafile: 131220X07



SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

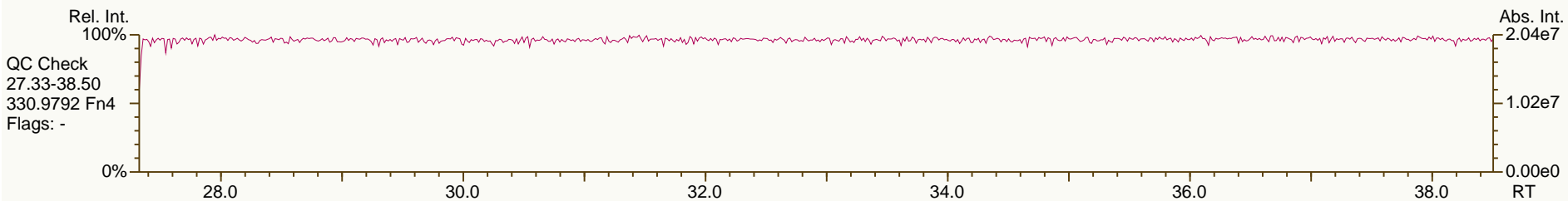
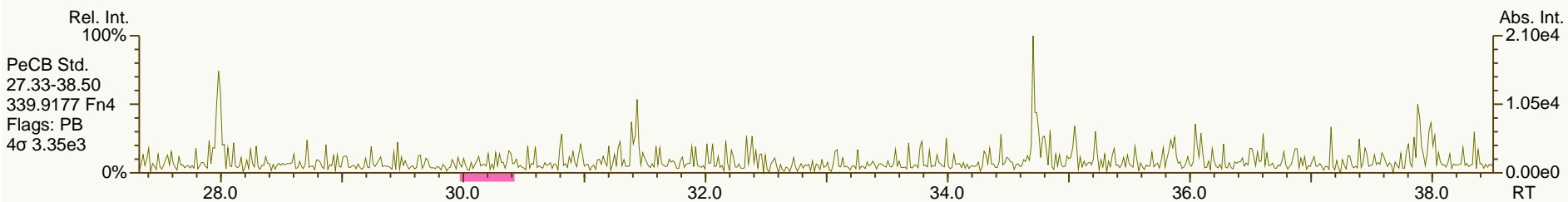
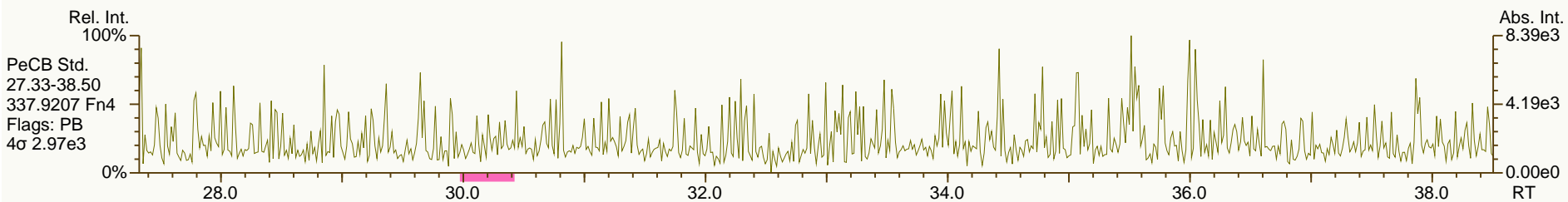
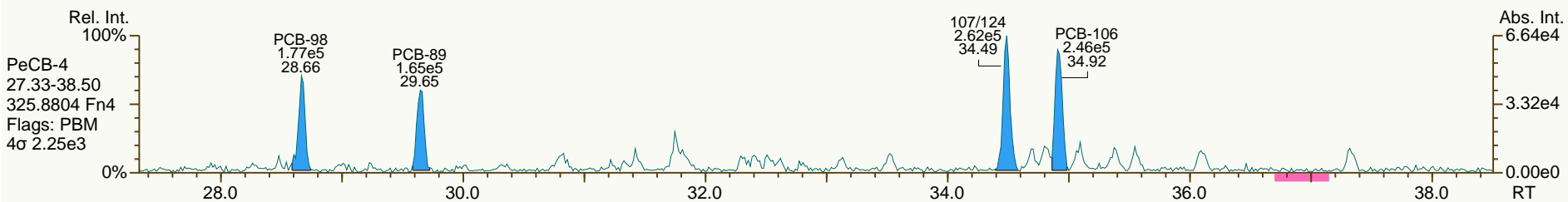
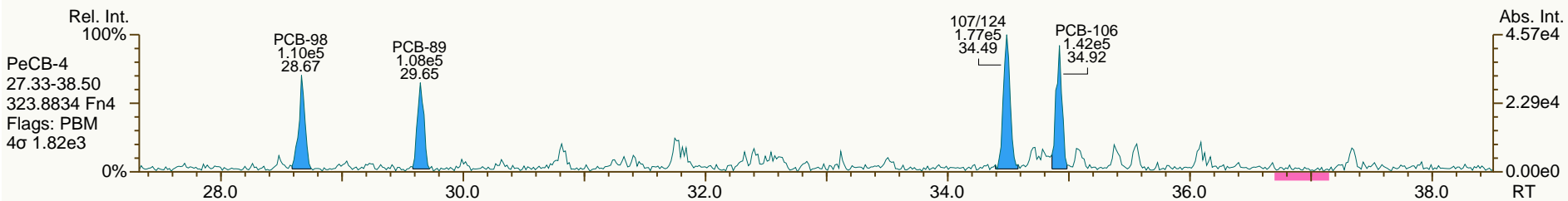
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

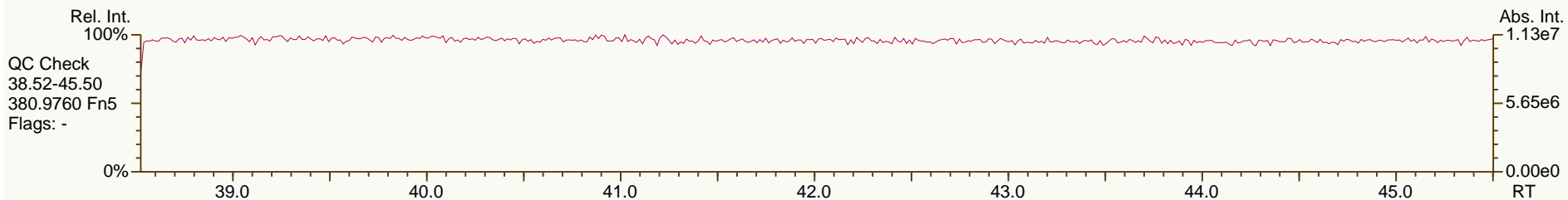
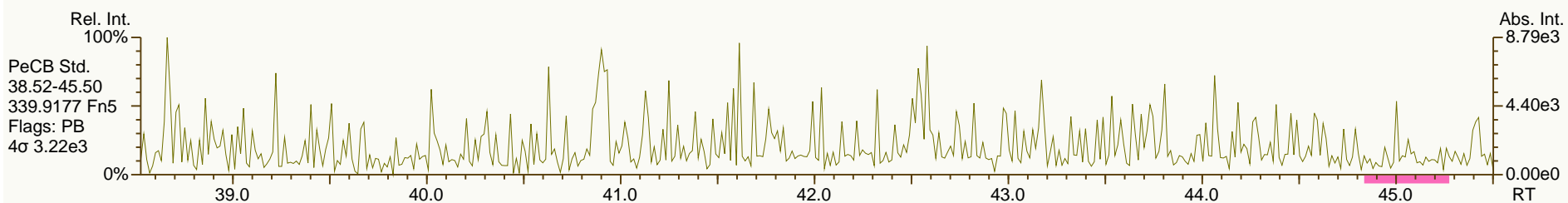
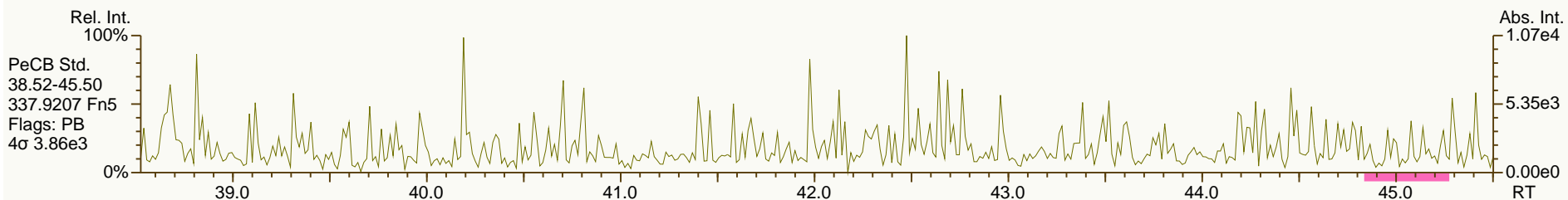
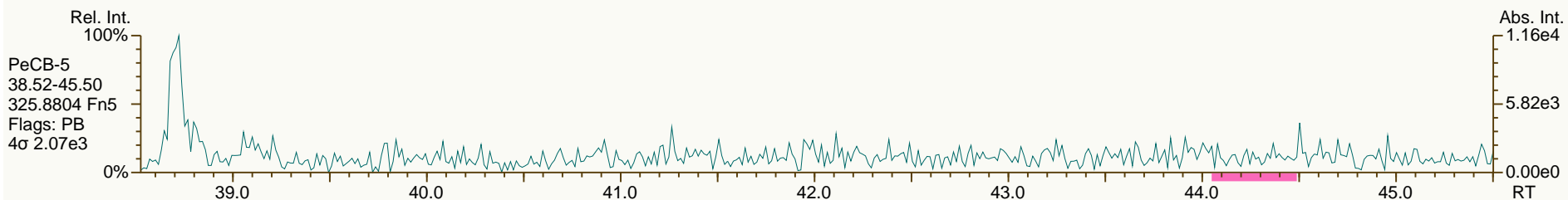
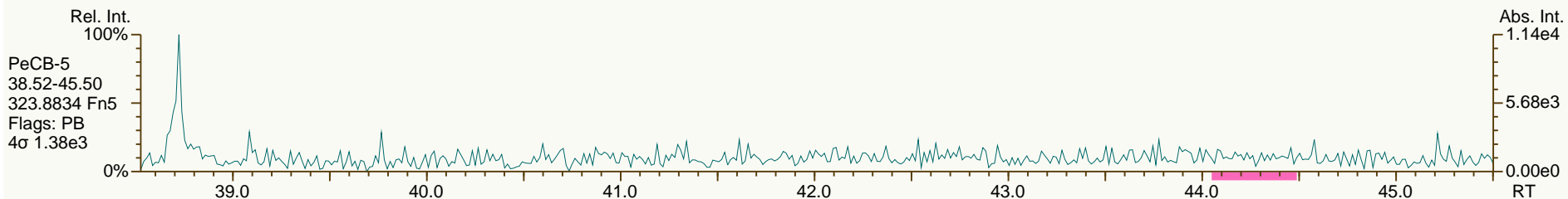
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

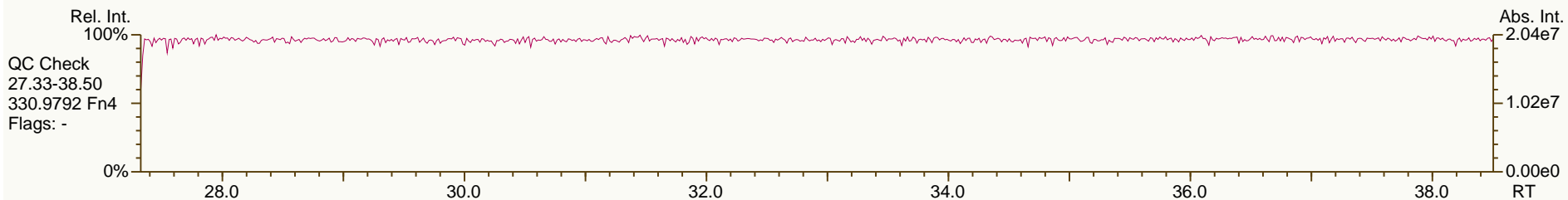
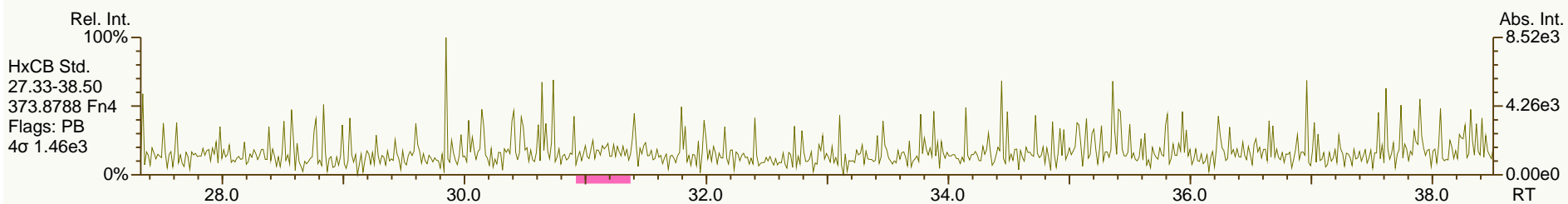
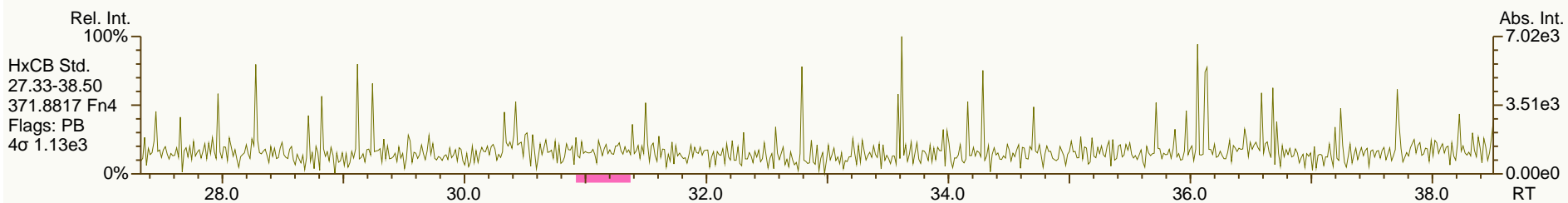
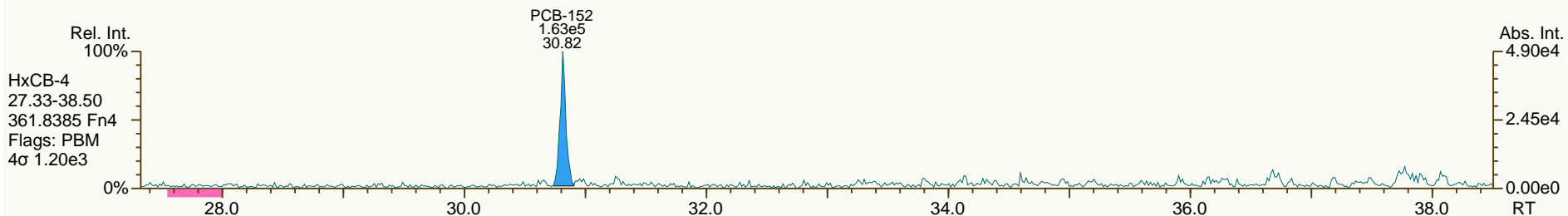
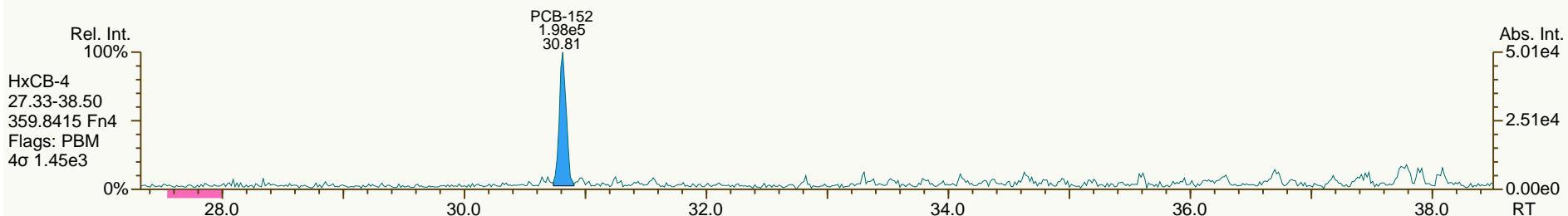
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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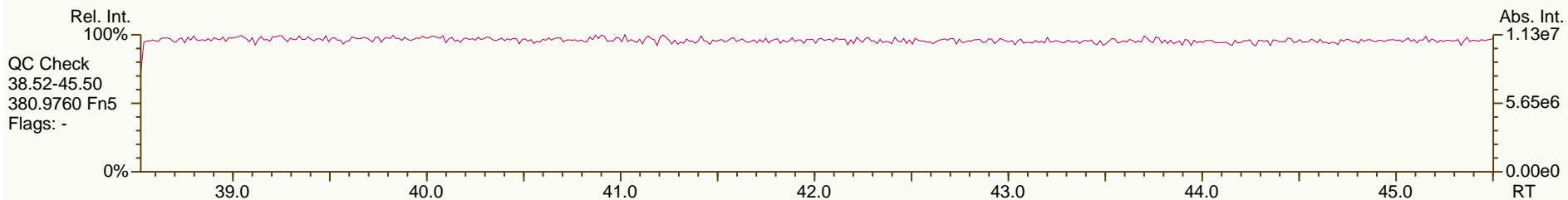
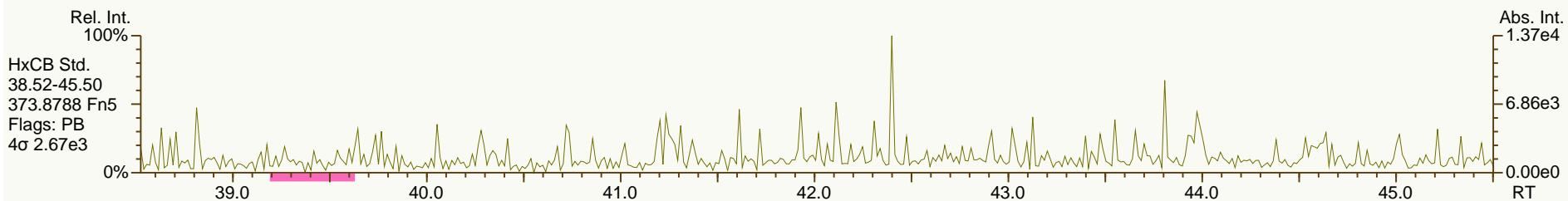
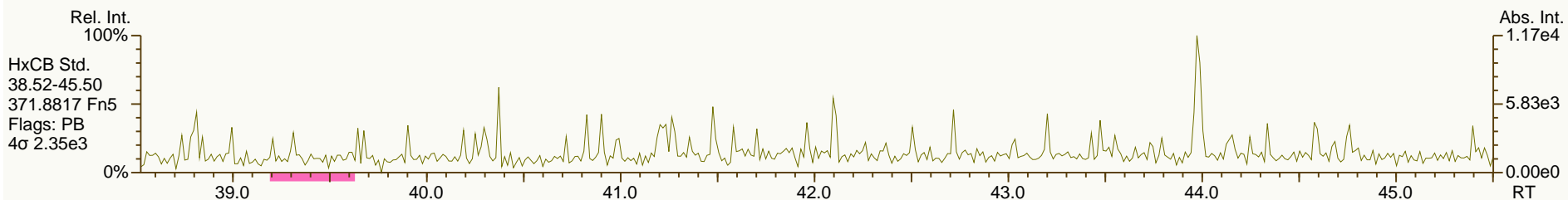
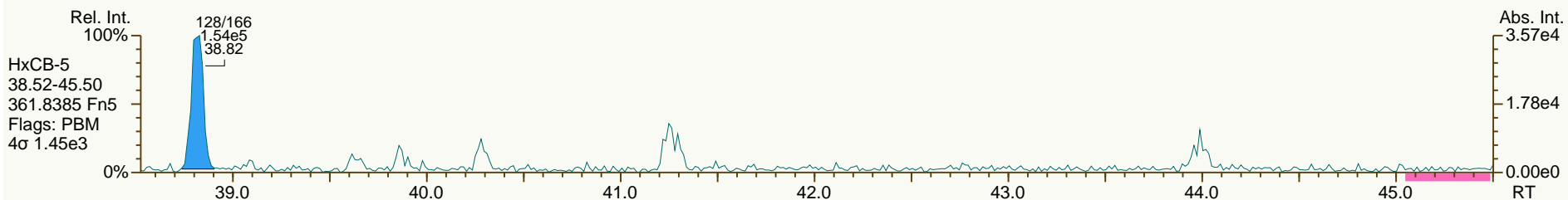
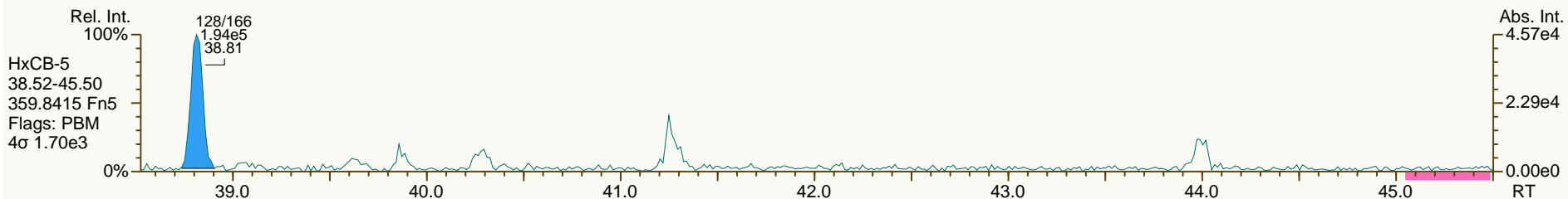
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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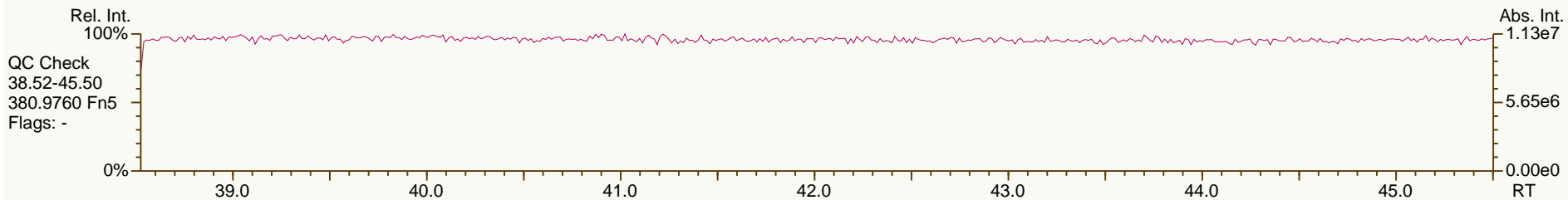
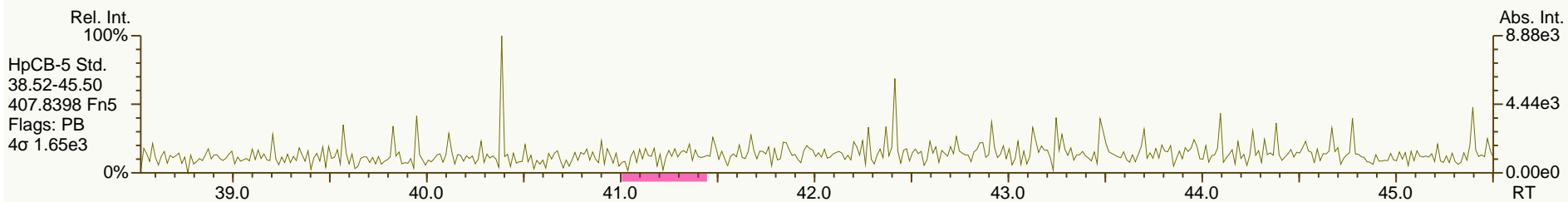
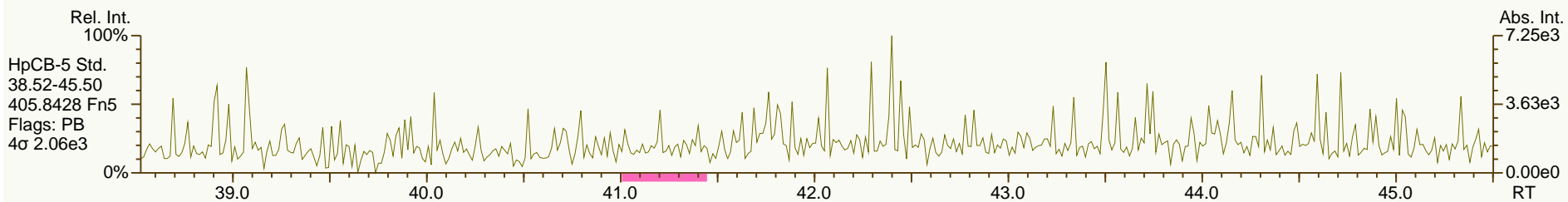
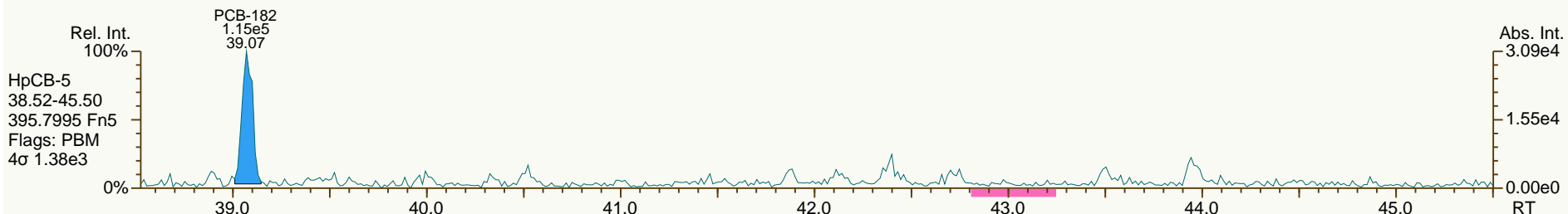
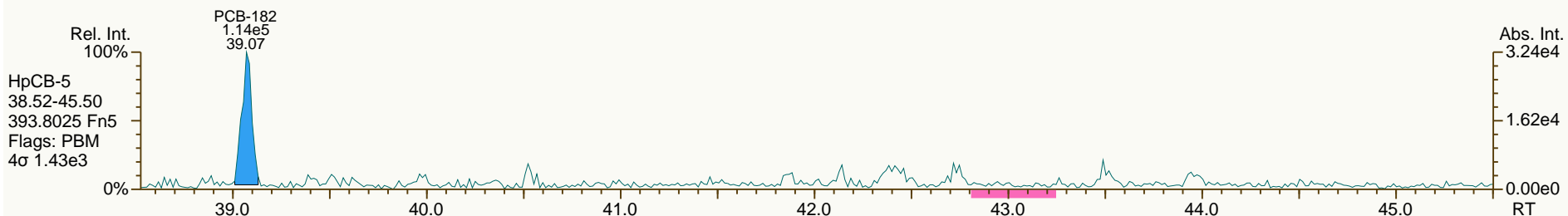




SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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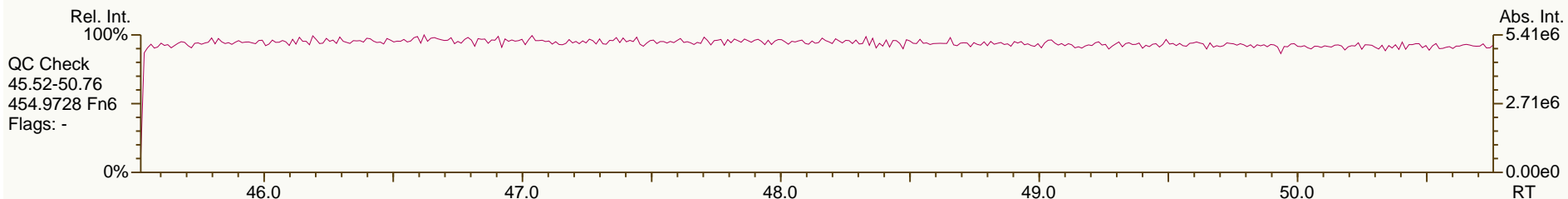
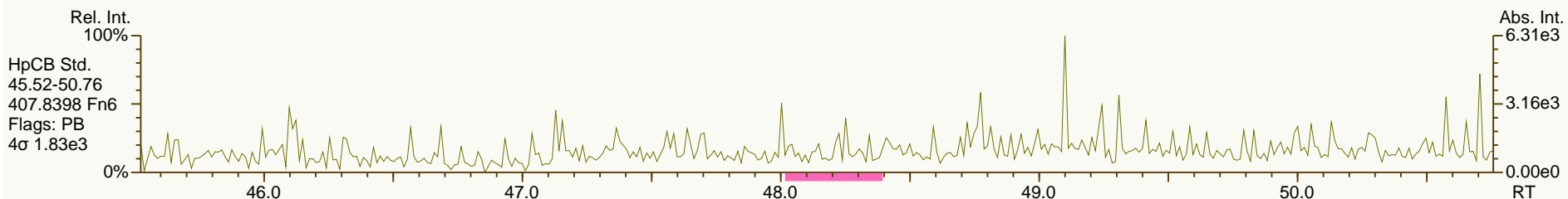
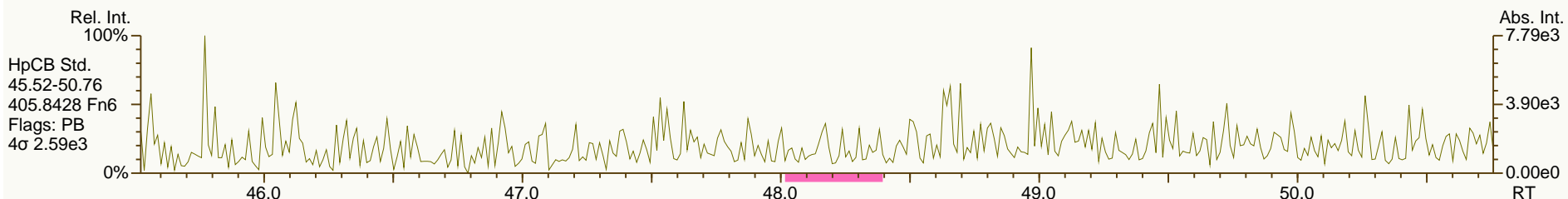
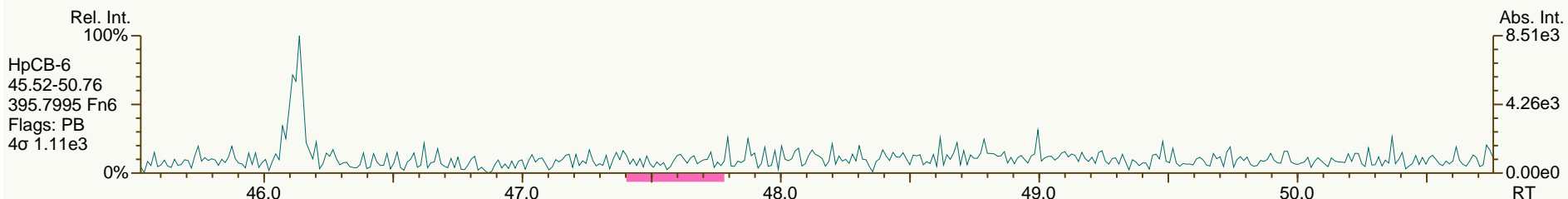
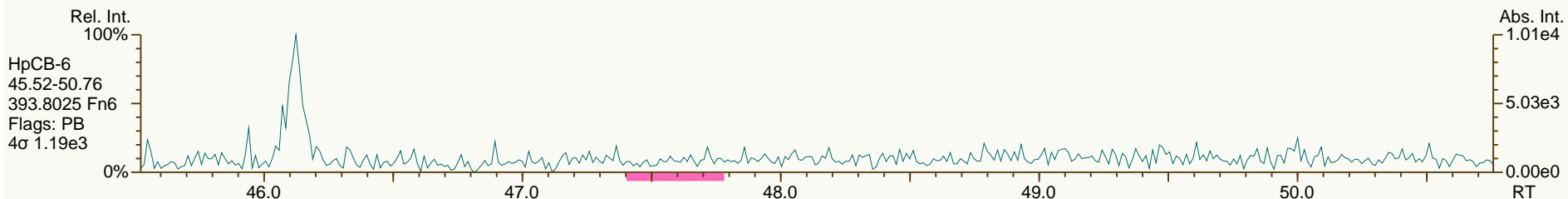
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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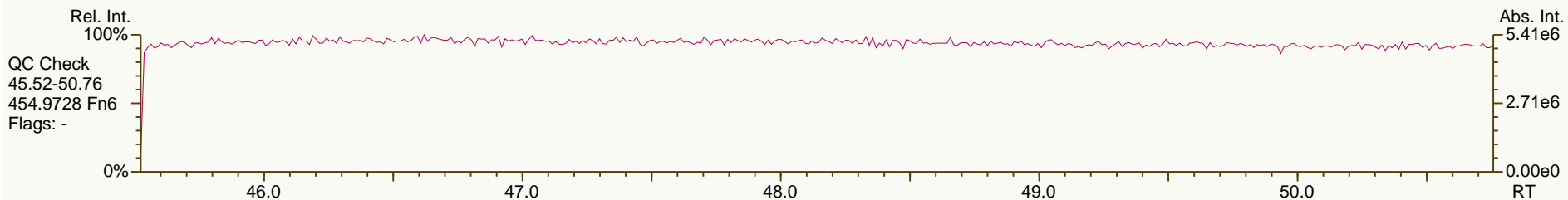
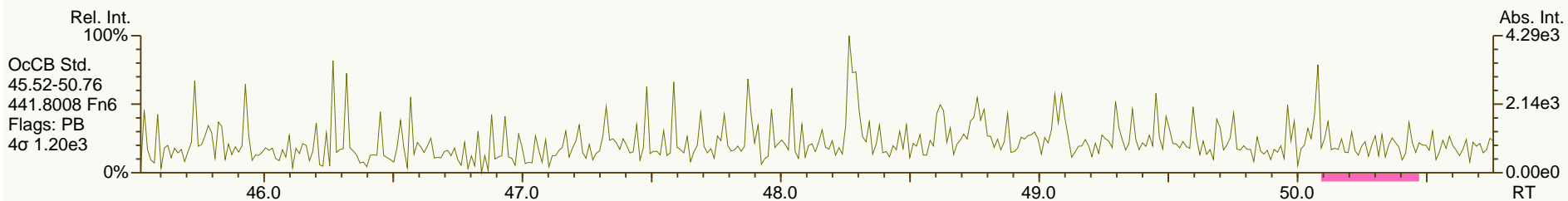
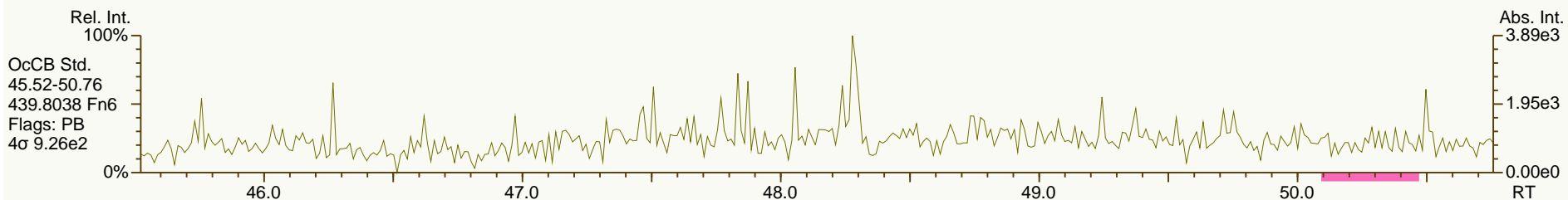
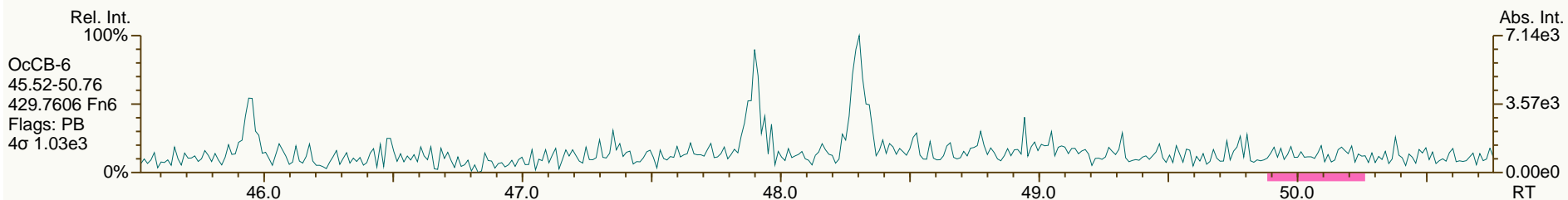
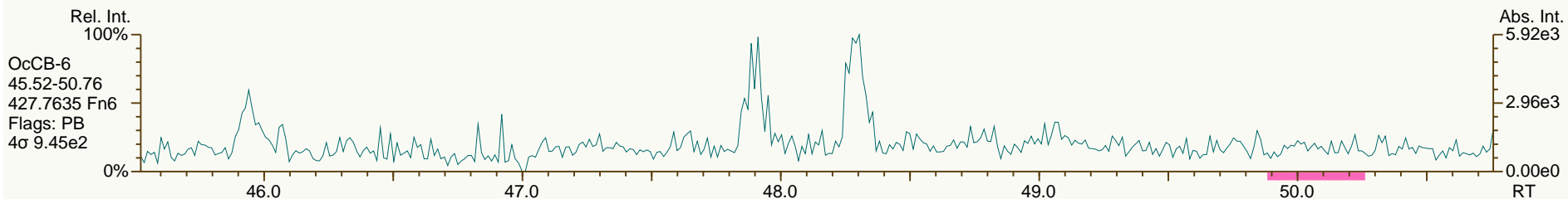
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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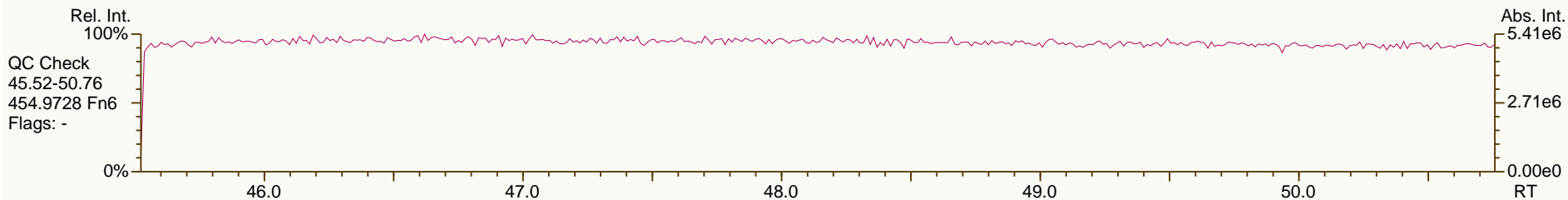
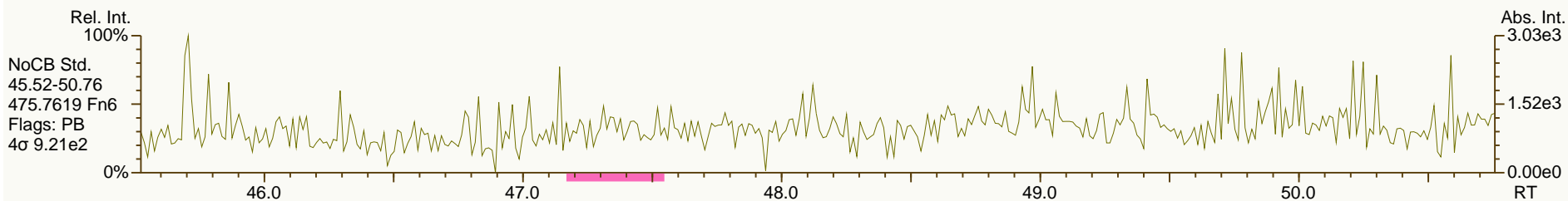
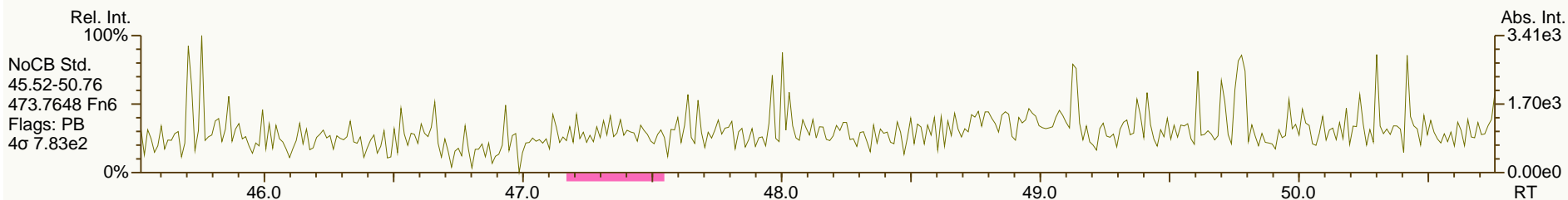
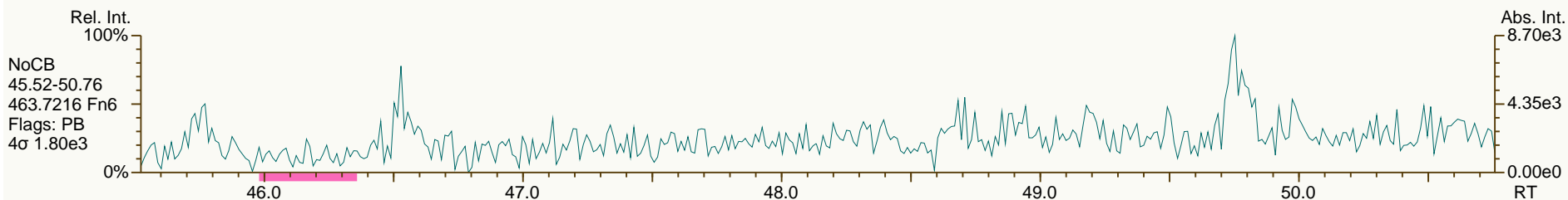
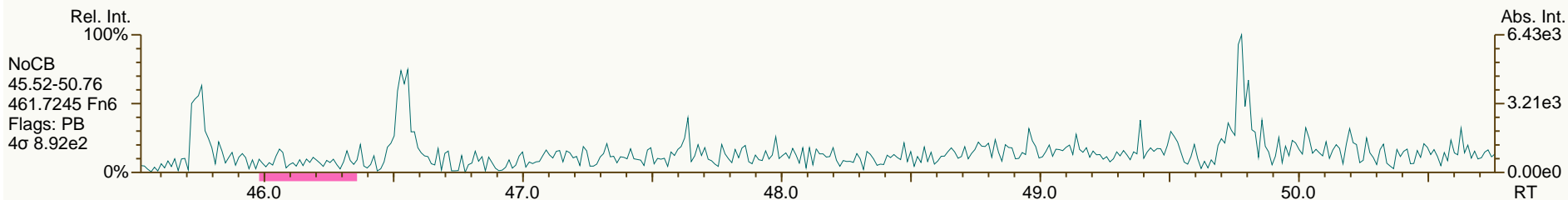
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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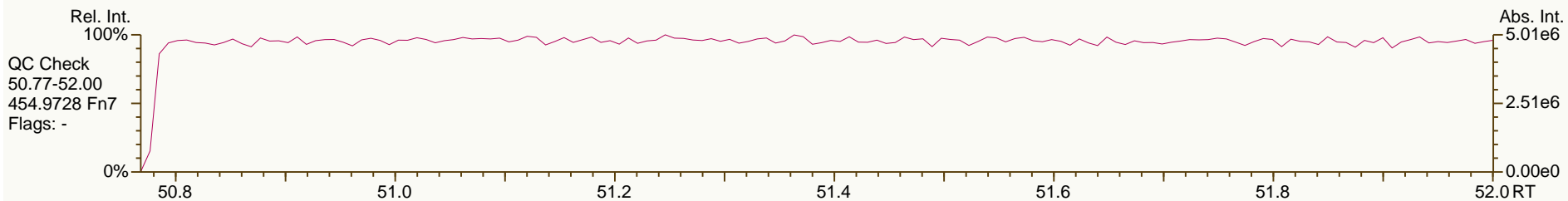
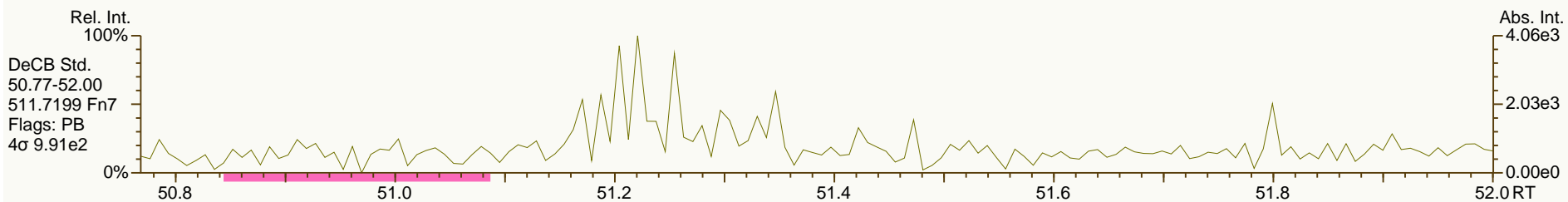
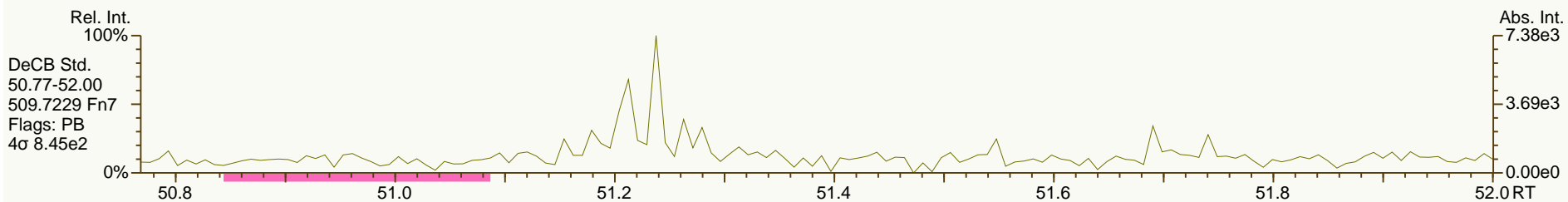
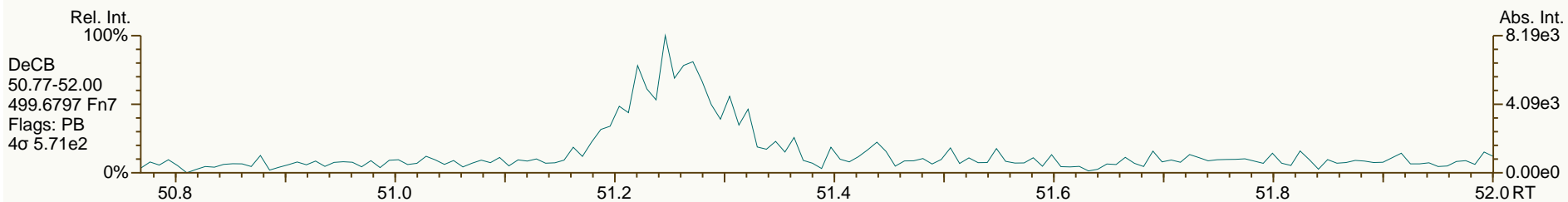
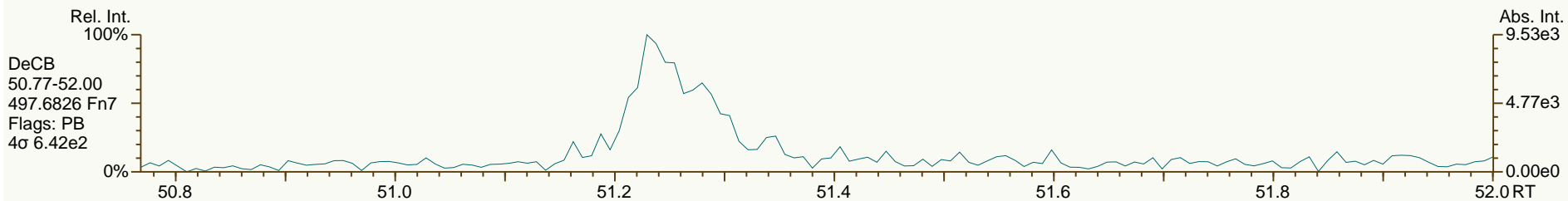
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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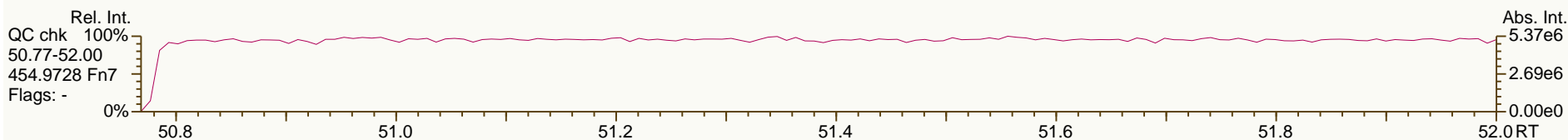
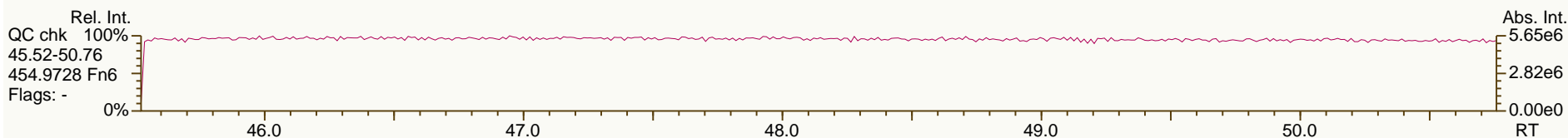
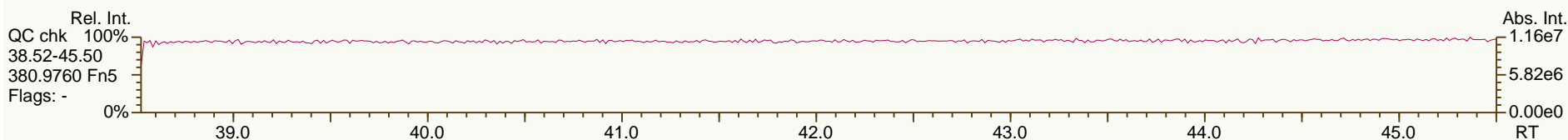
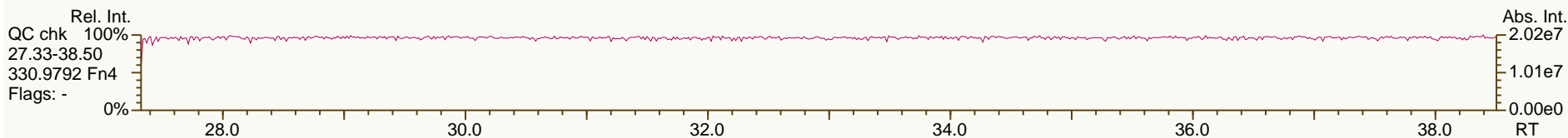
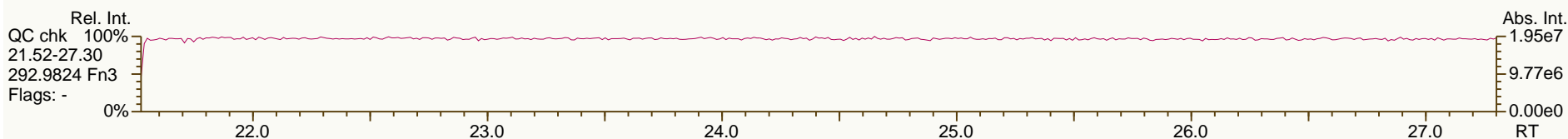
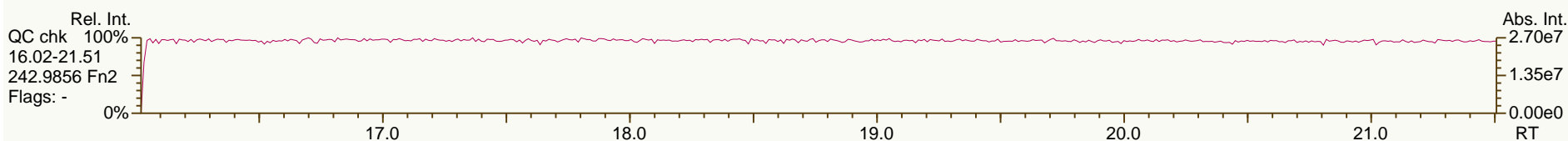
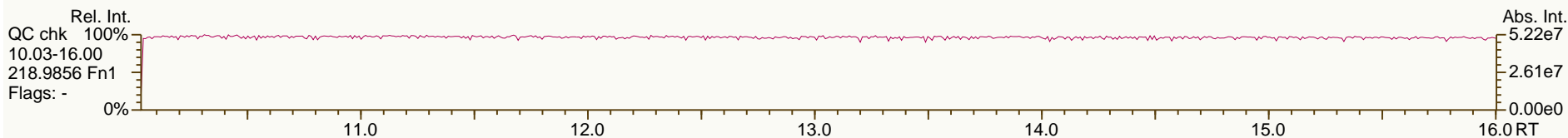
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

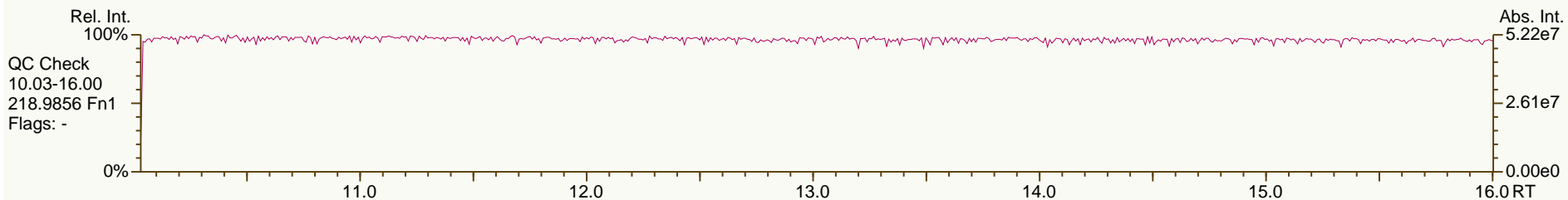
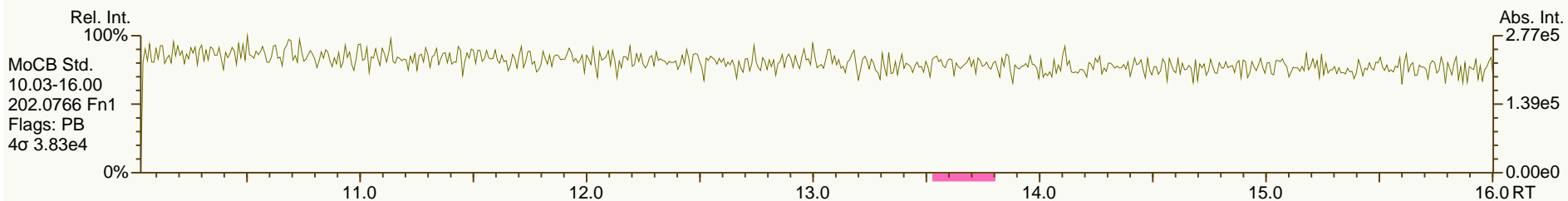
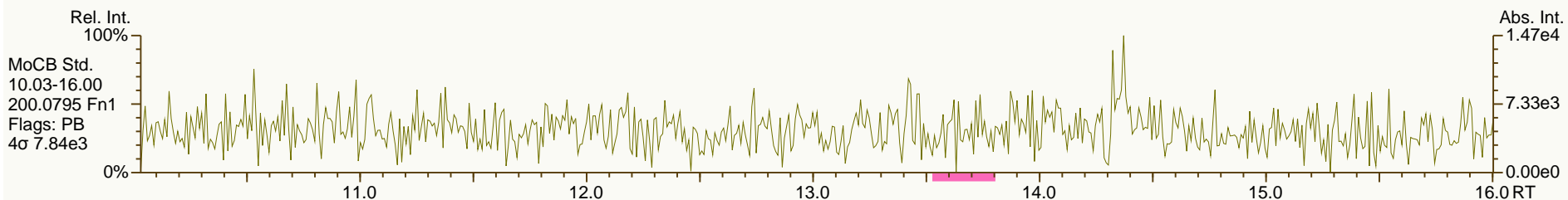
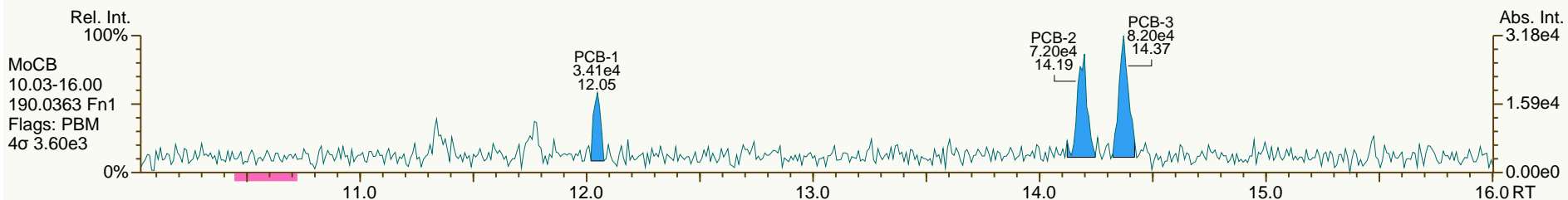
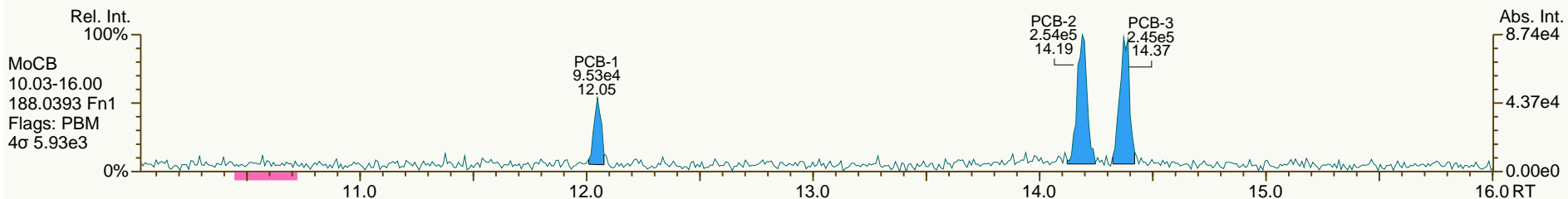
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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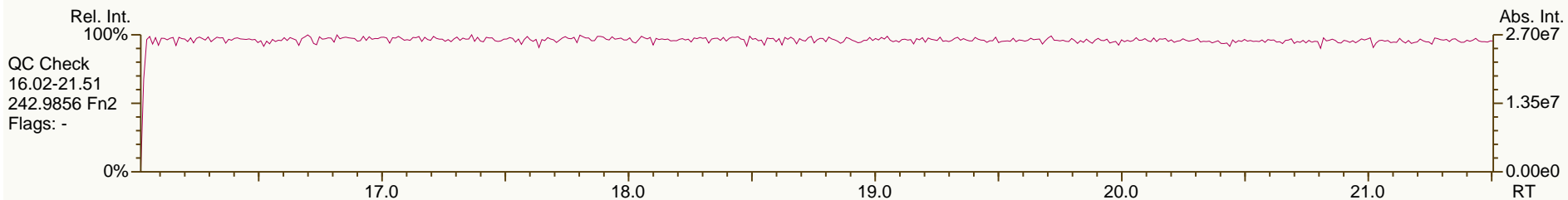
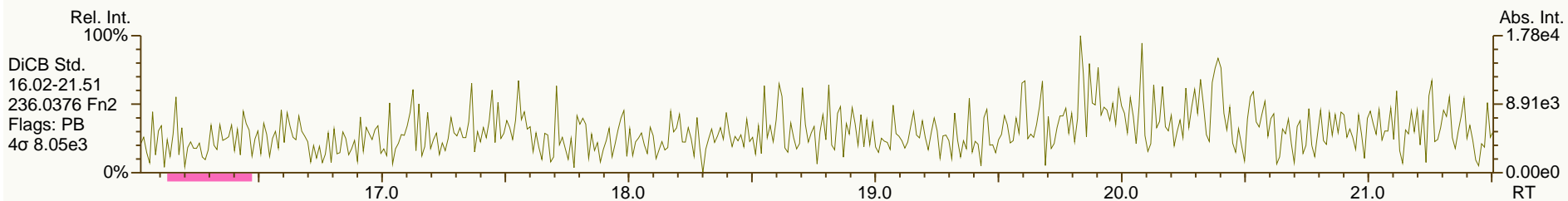
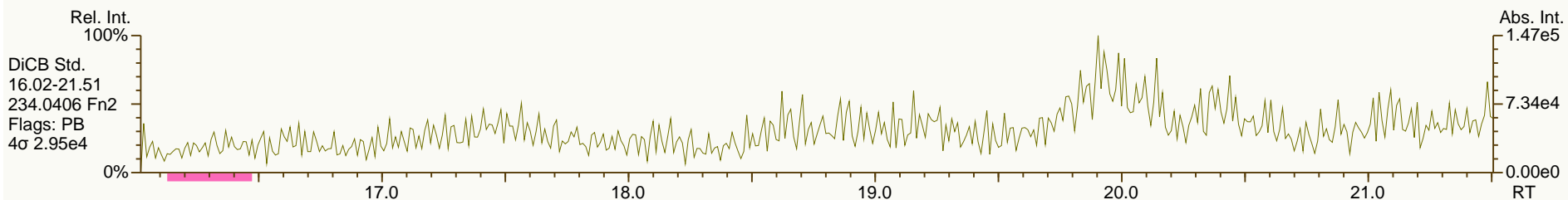
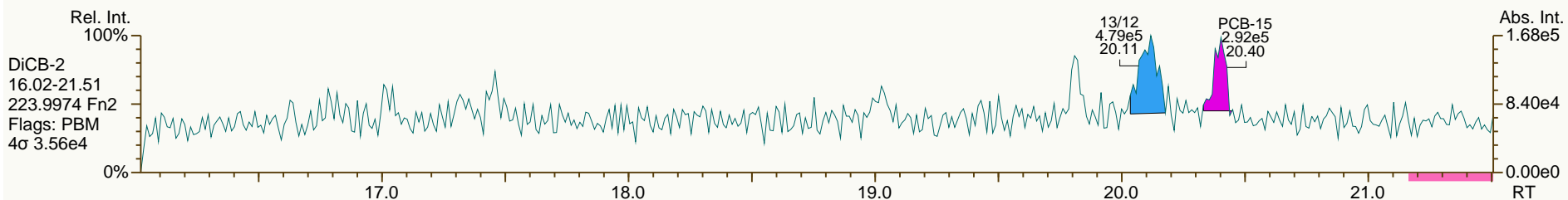
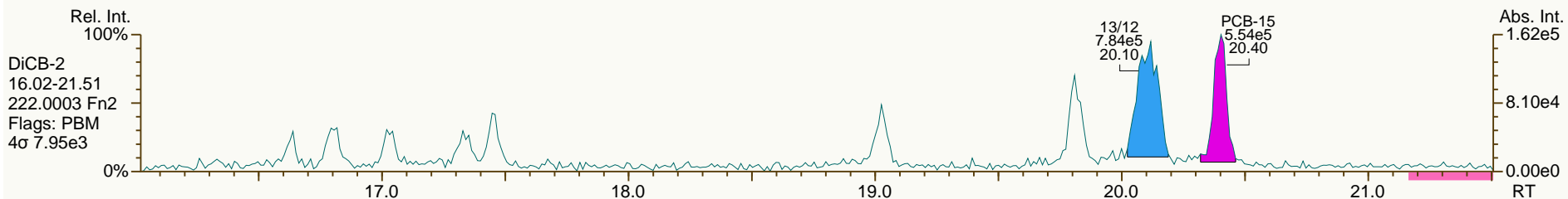
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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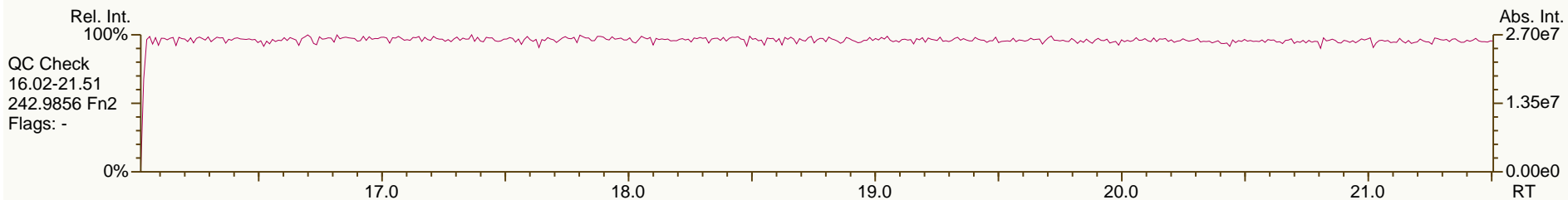
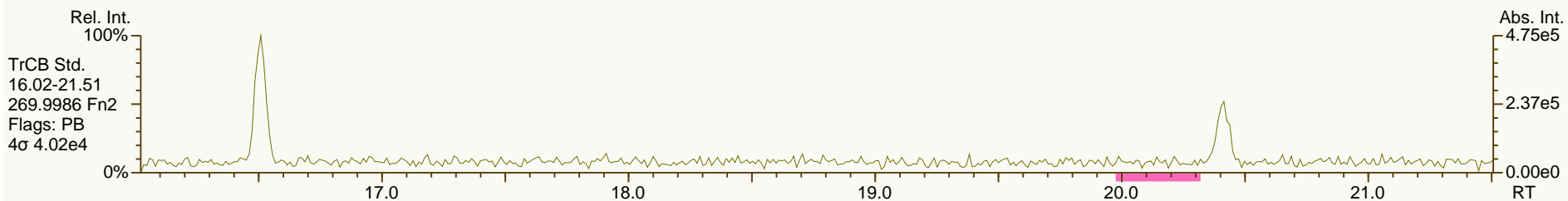
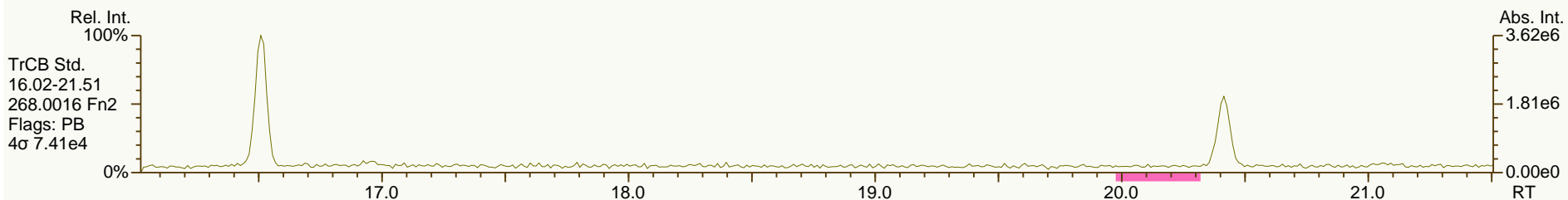
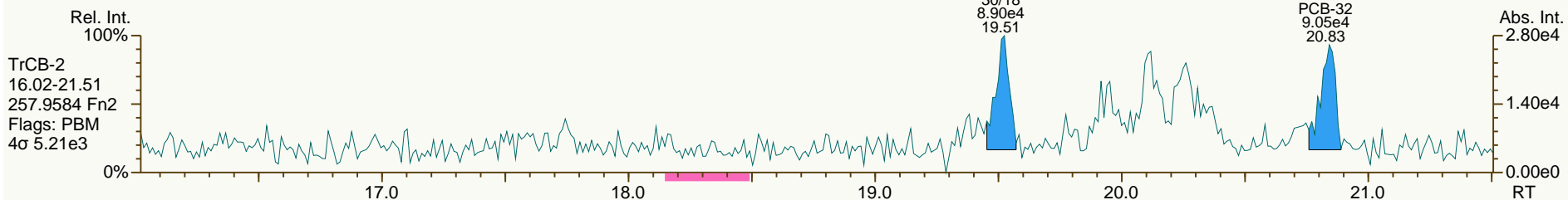
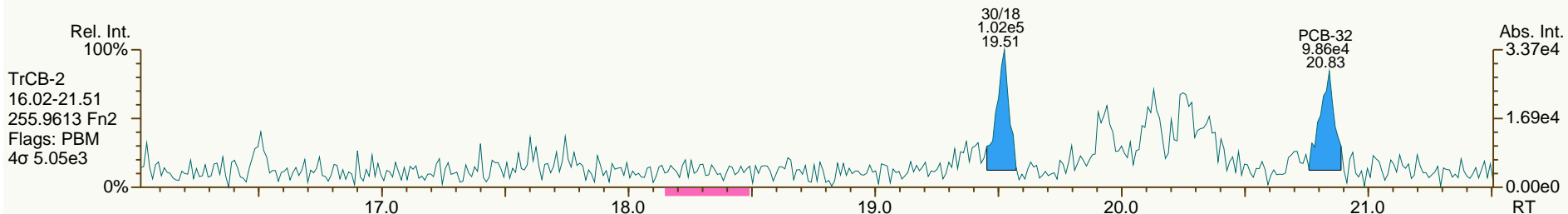
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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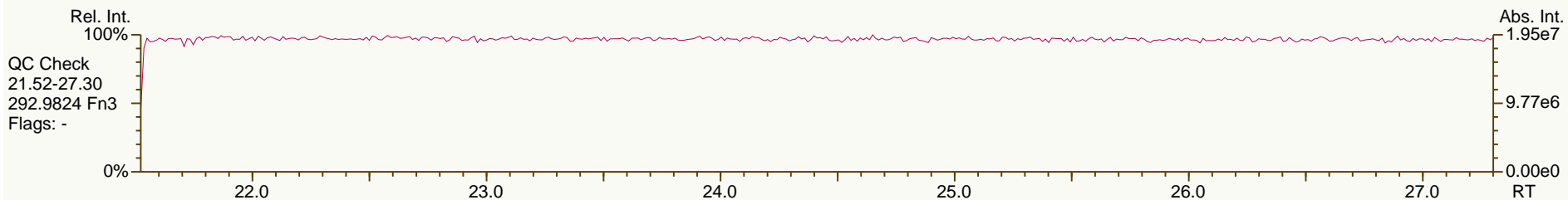
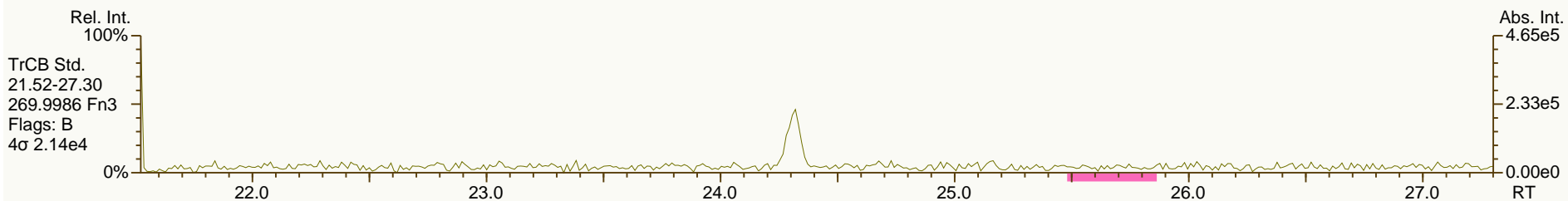
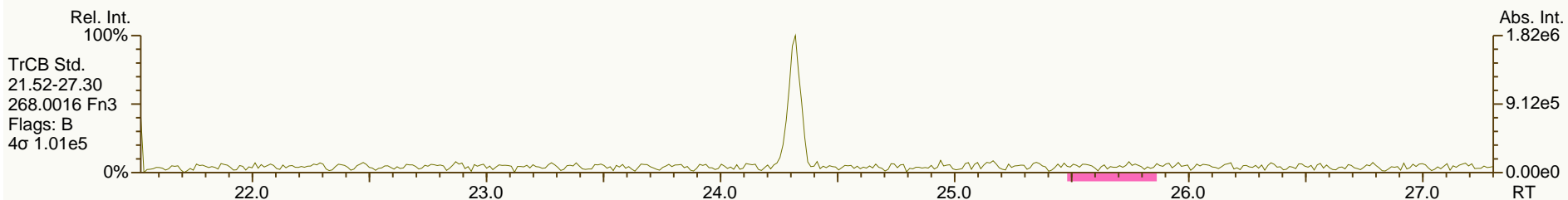
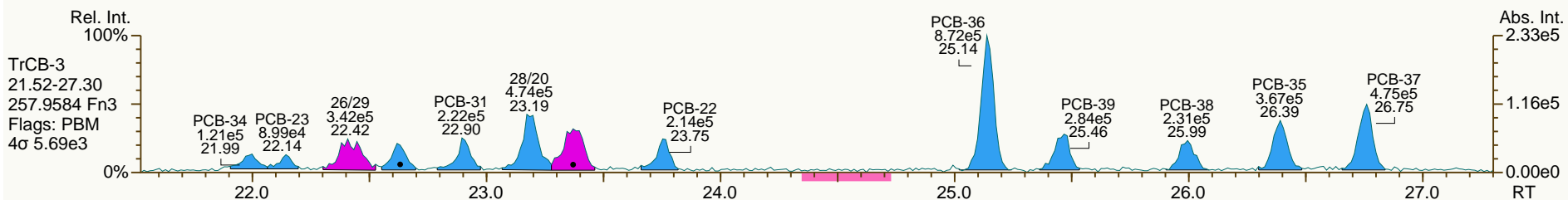
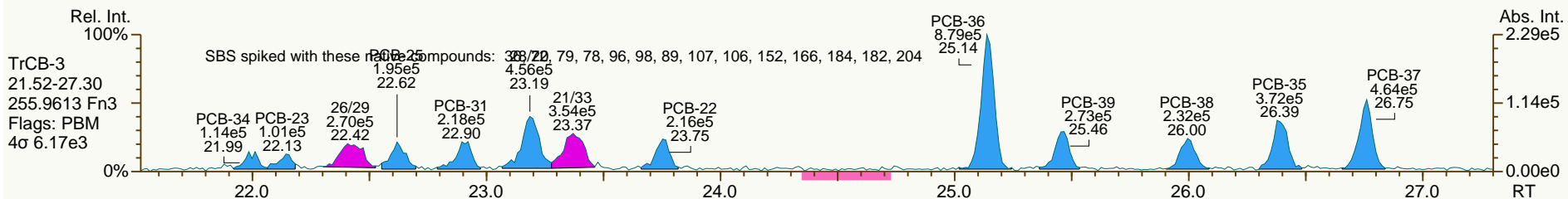
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

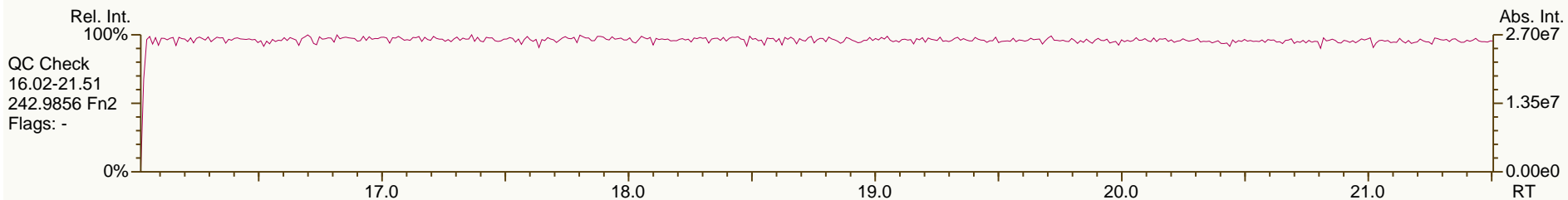
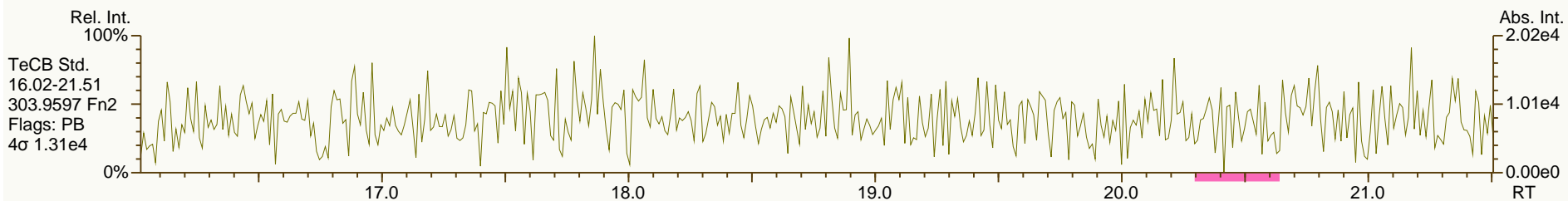
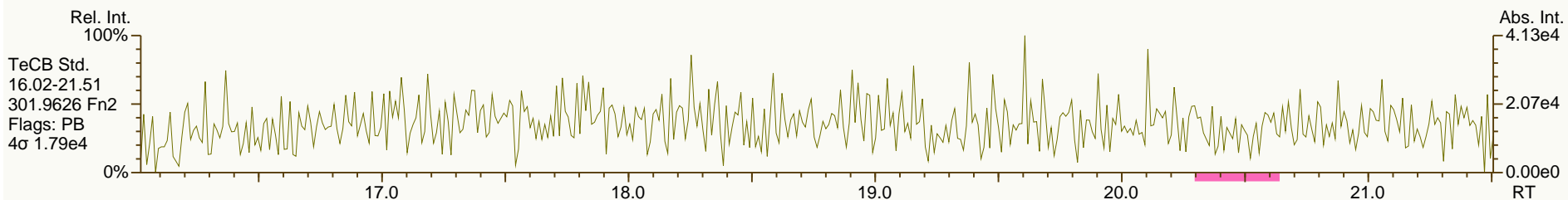
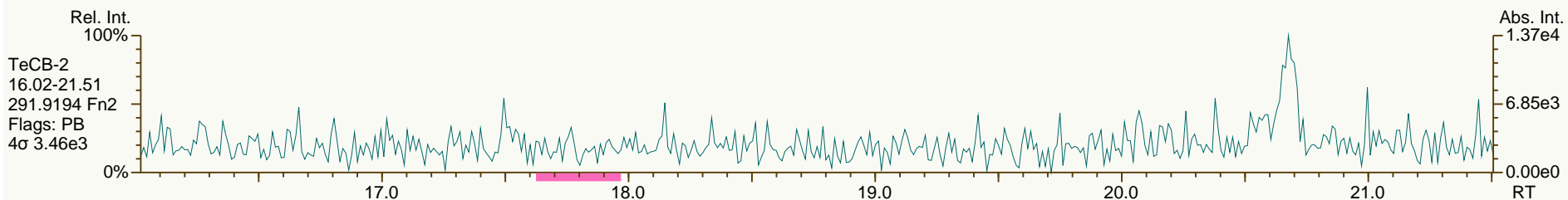
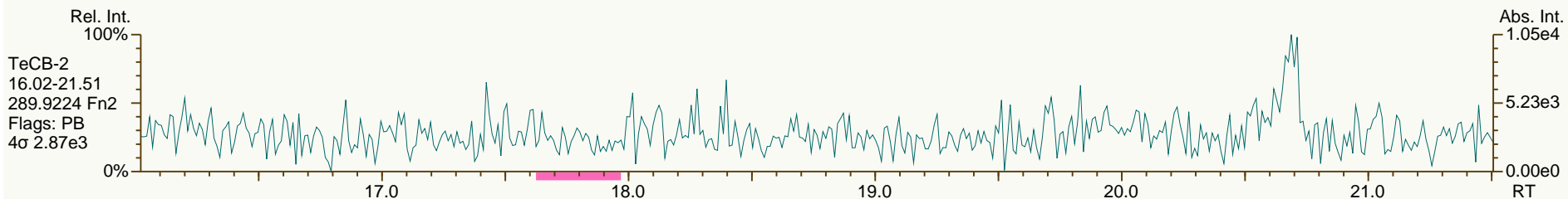
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 User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

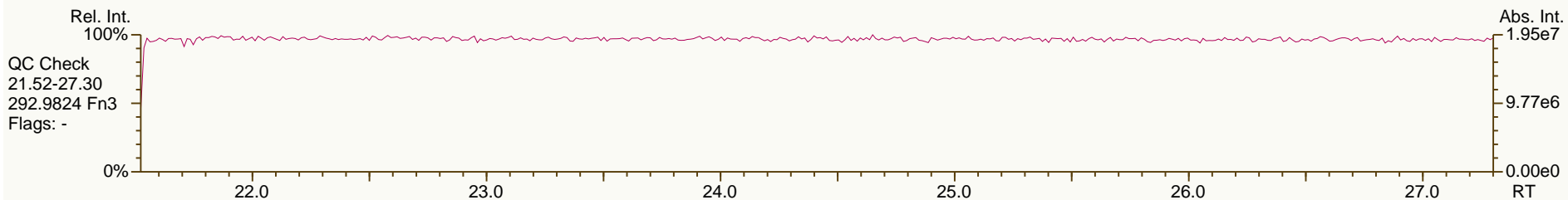
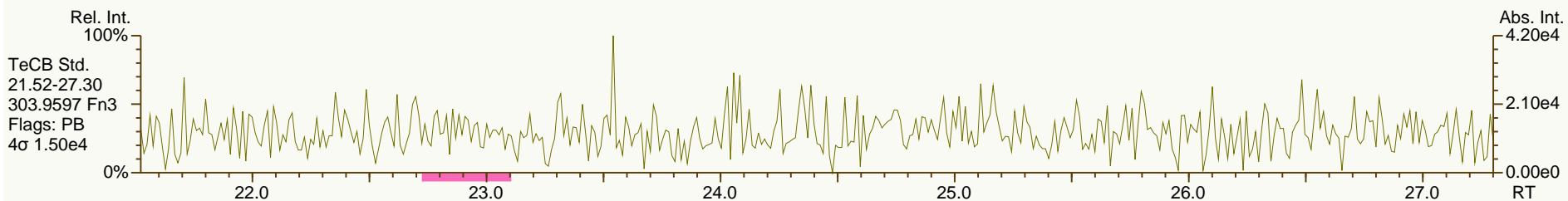
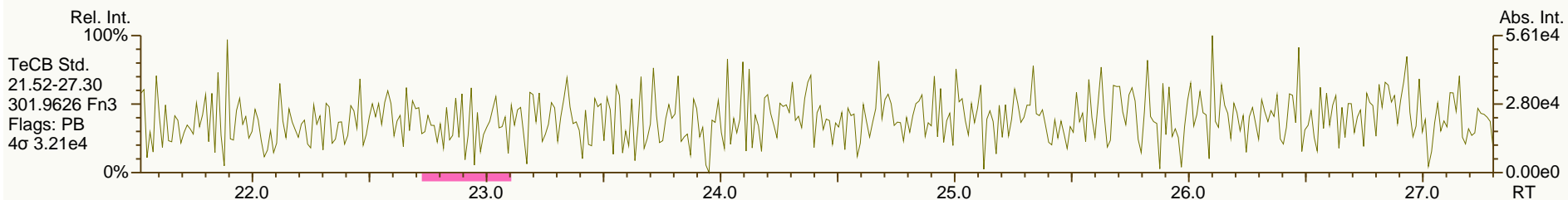
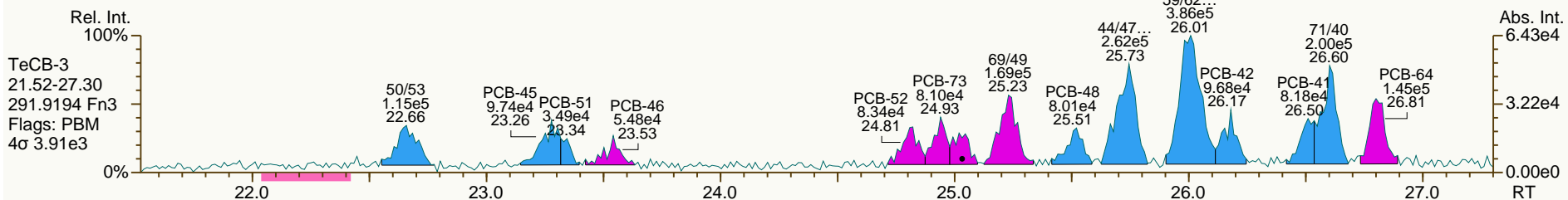
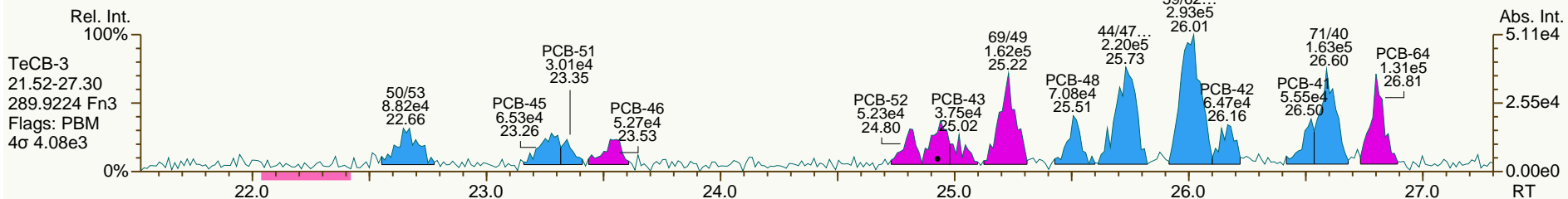
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

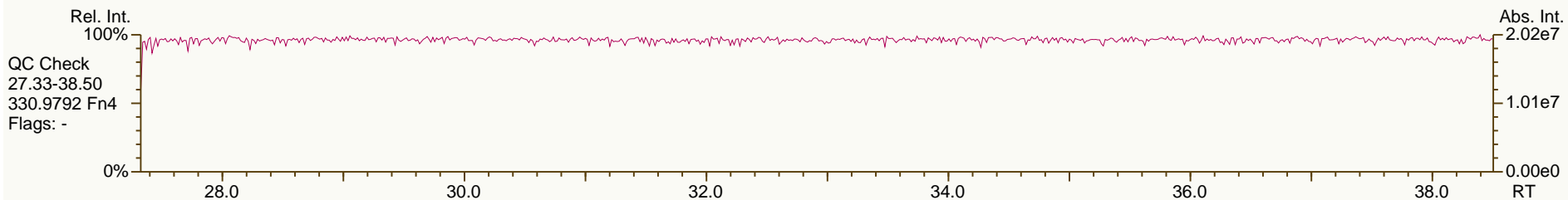
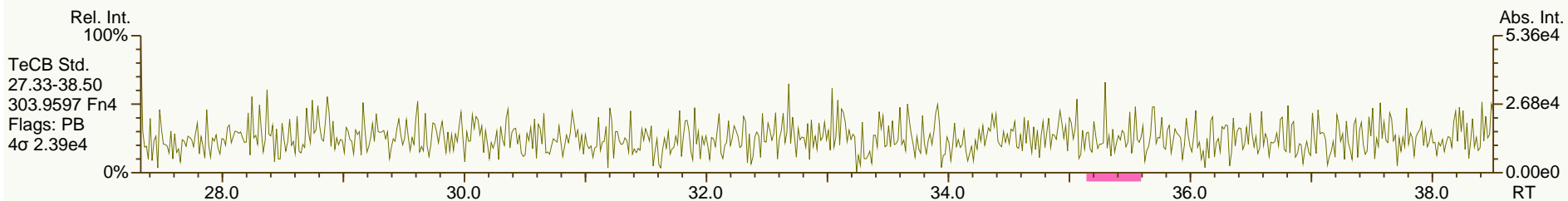
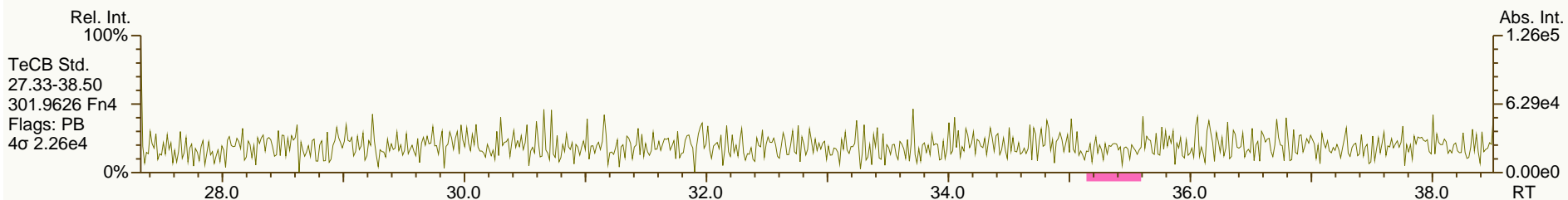
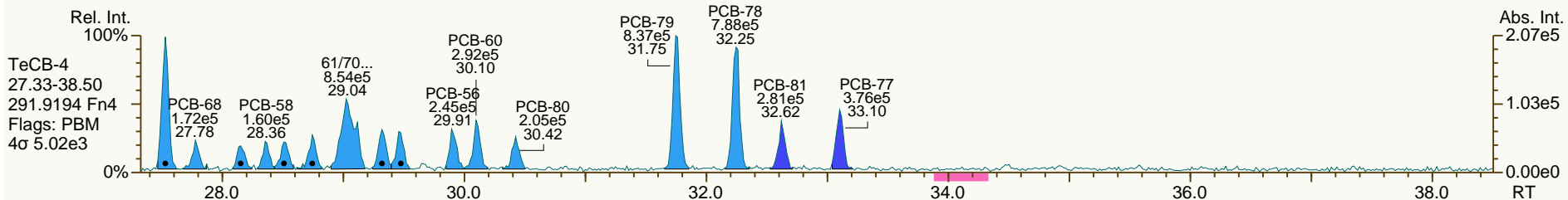
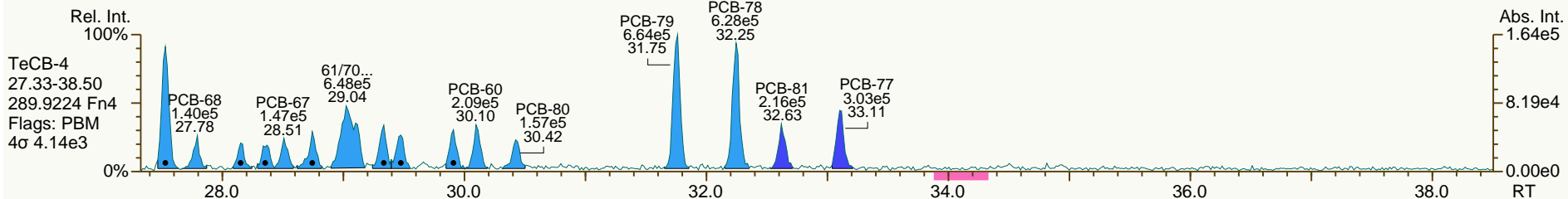
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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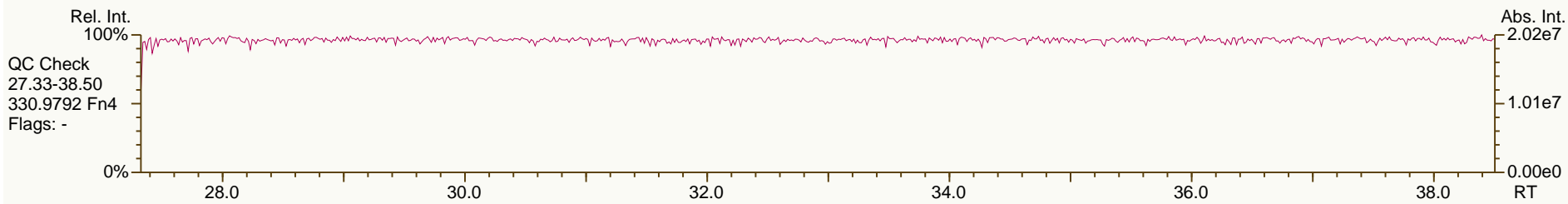
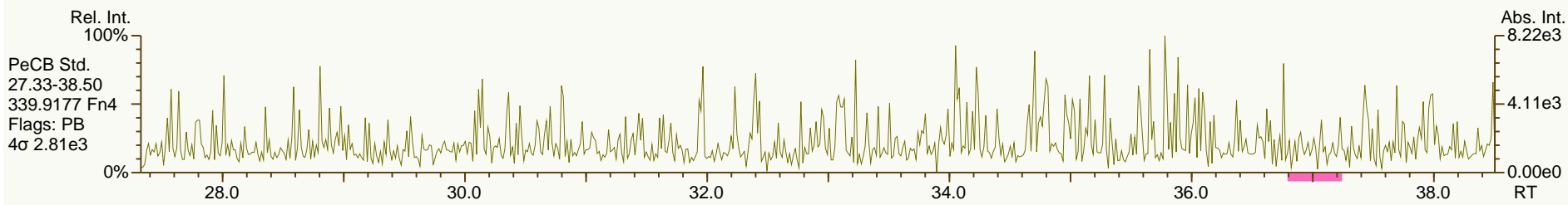
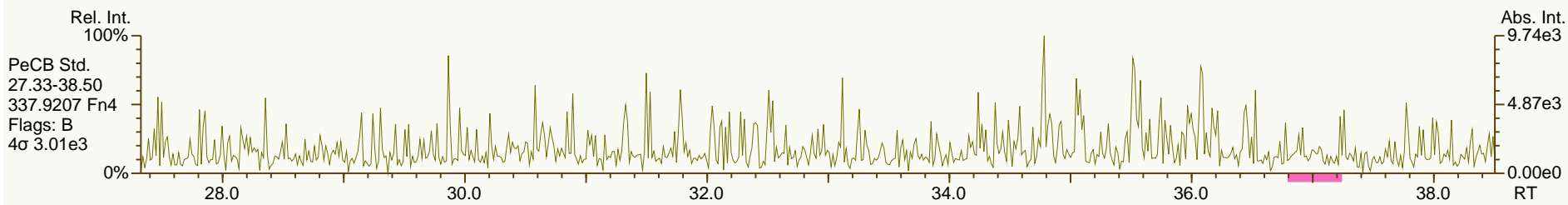
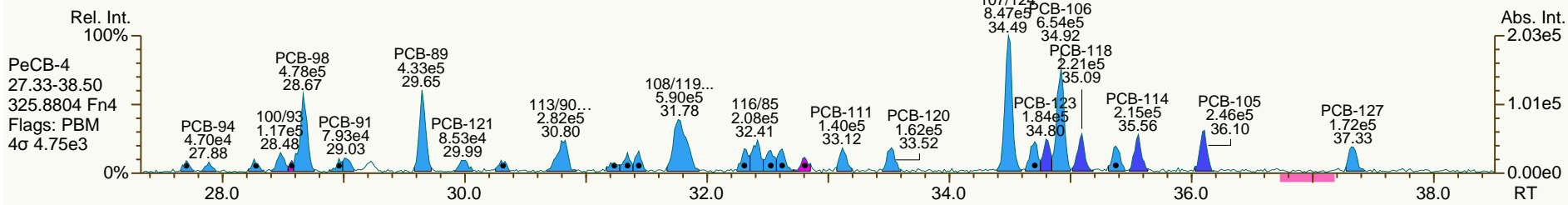
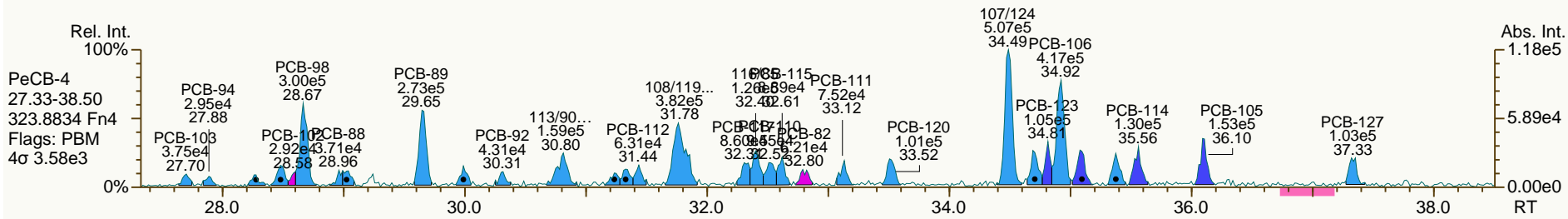




SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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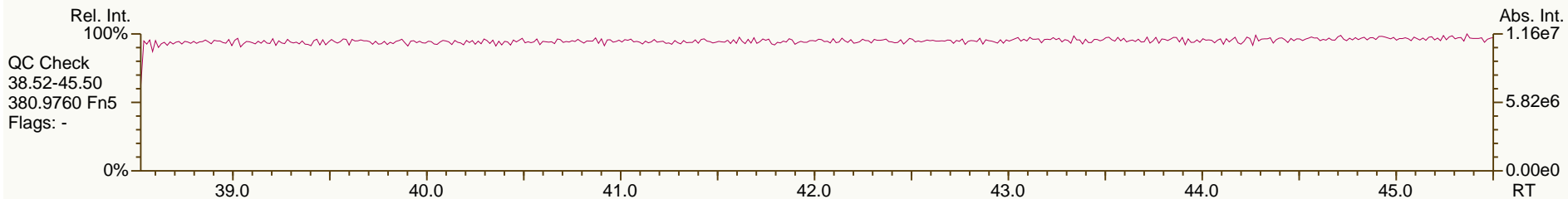
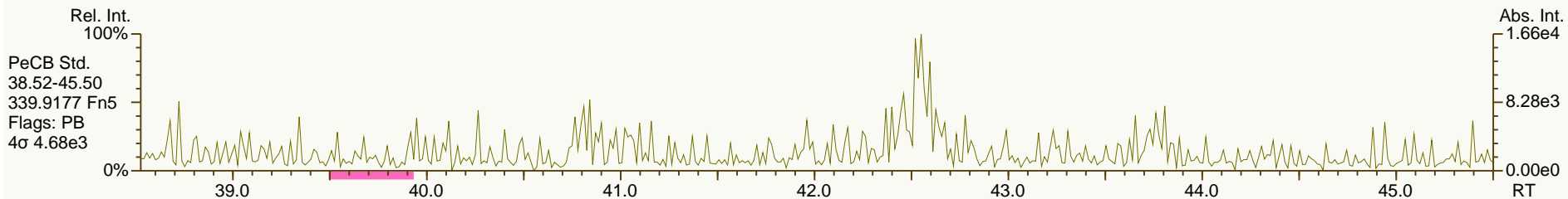
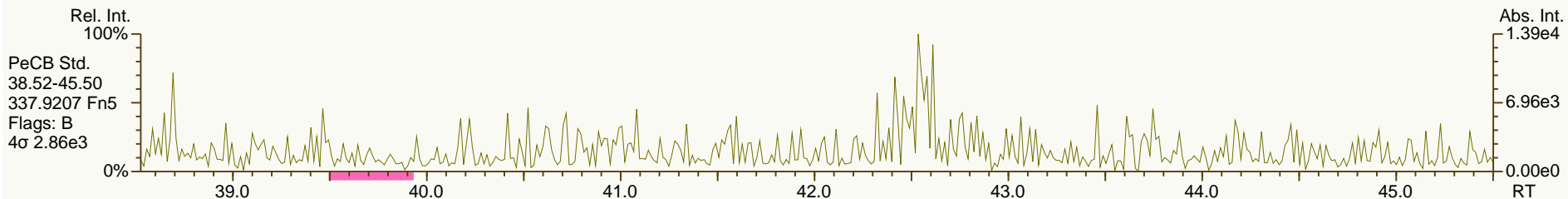
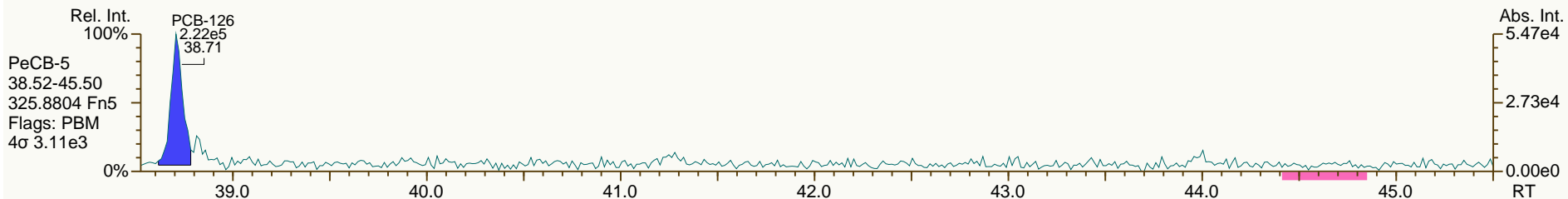
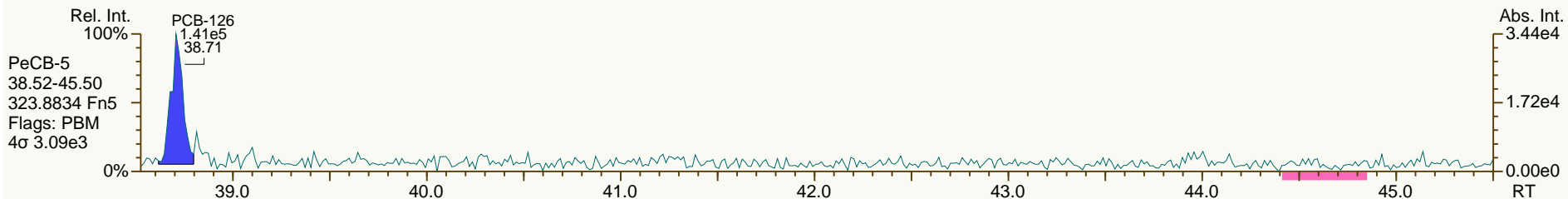
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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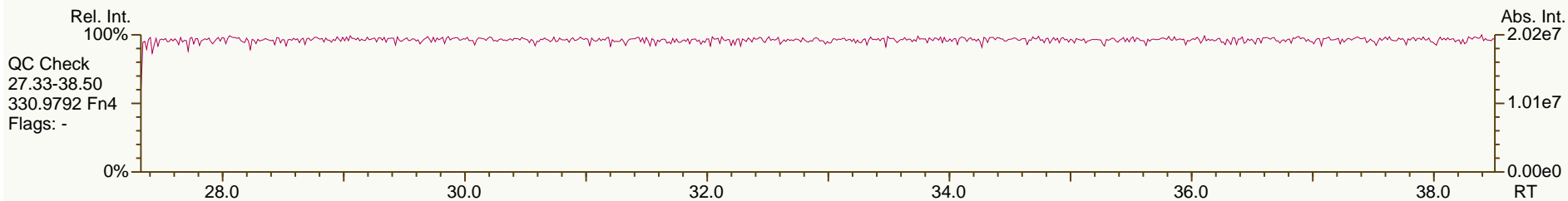
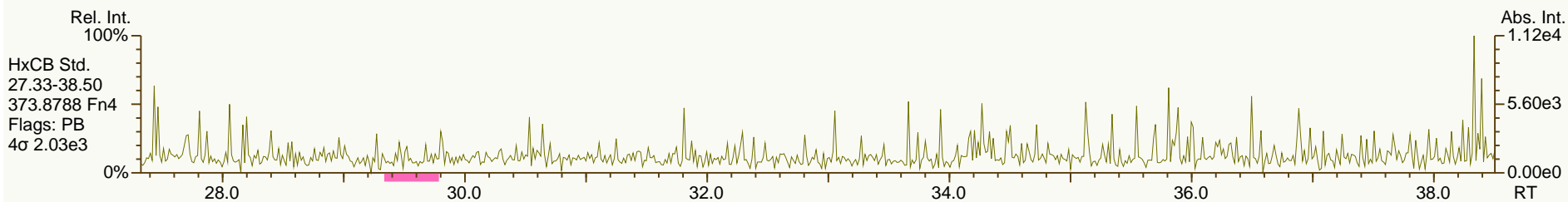
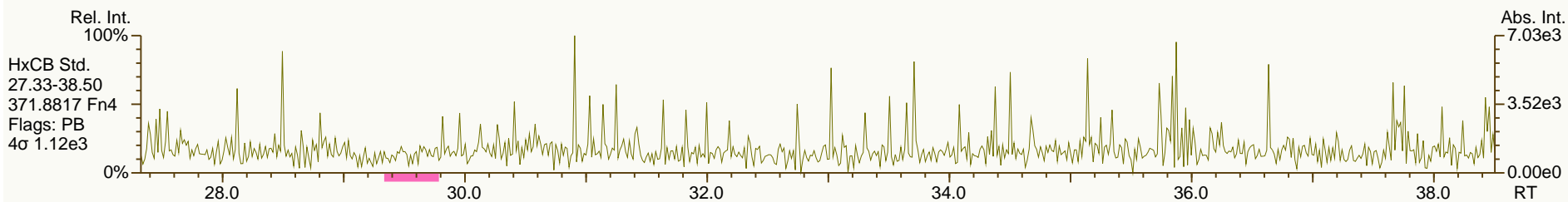
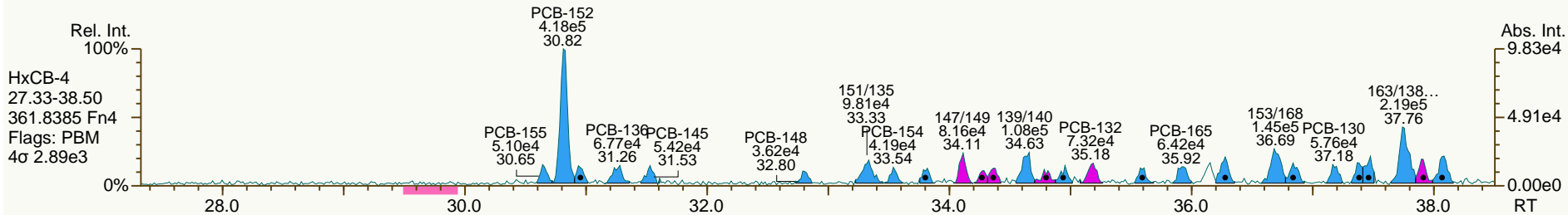
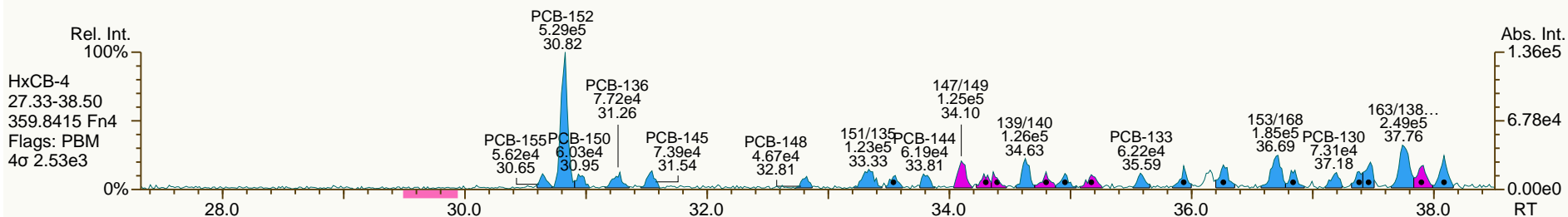
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

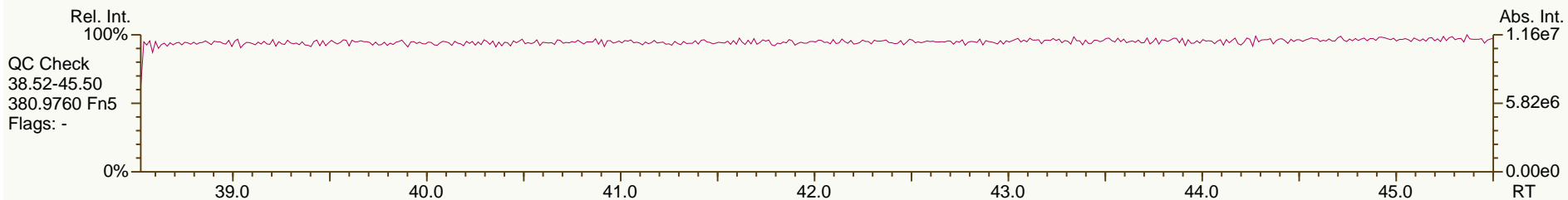
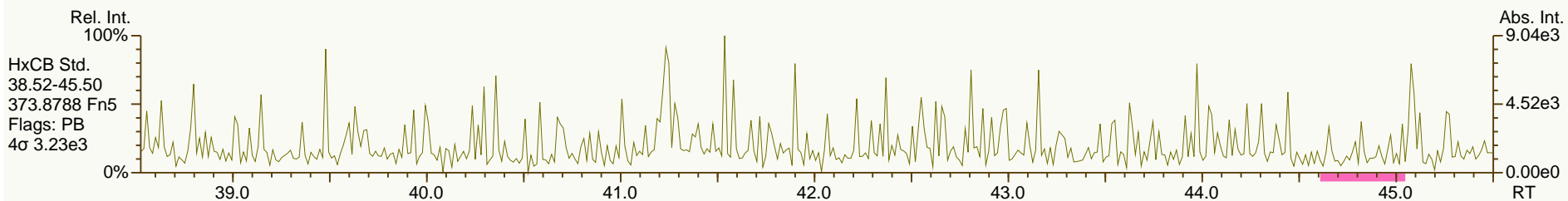
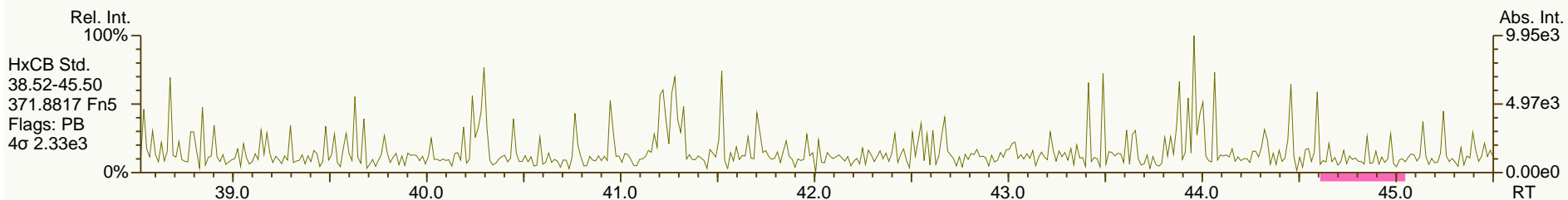
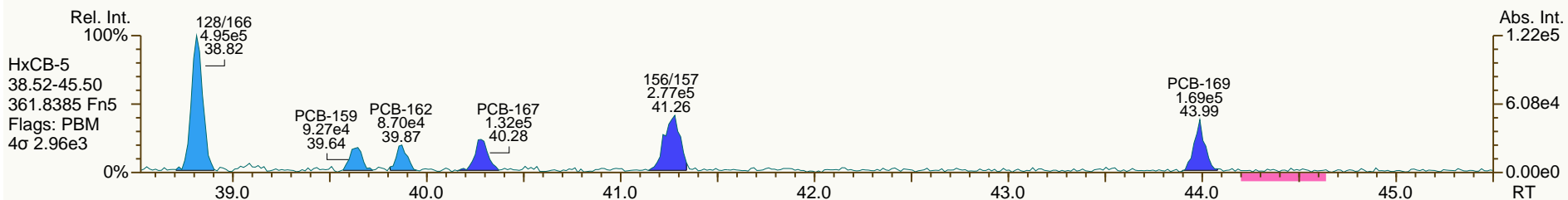
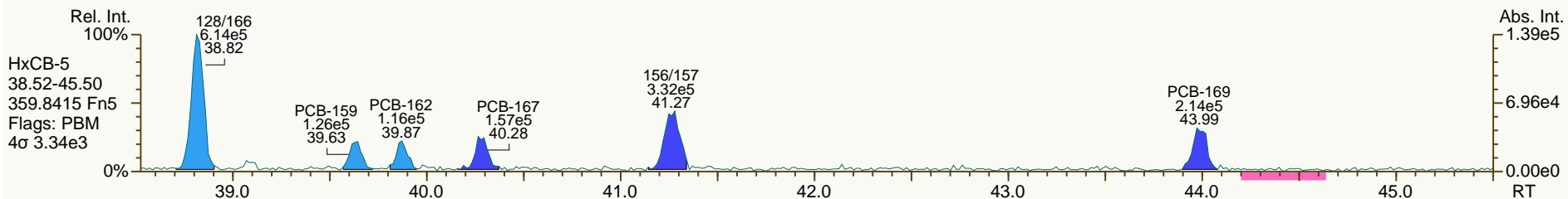
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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Sample ID: SIL 9-42-1  
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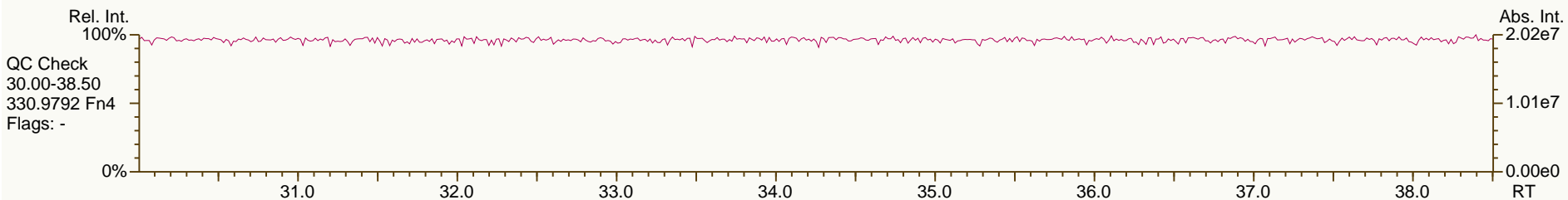
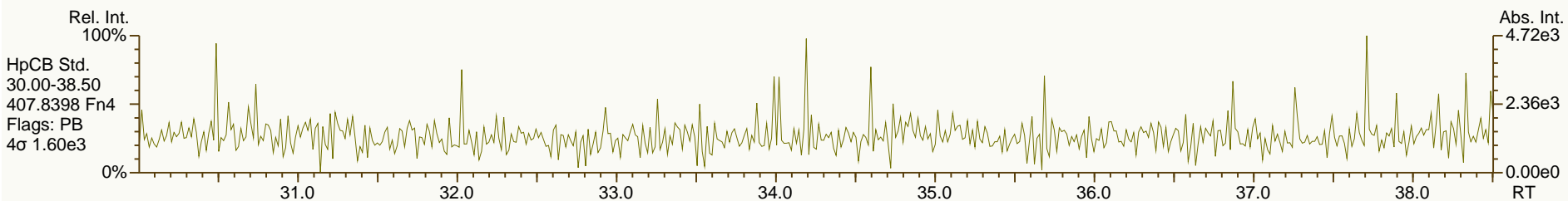
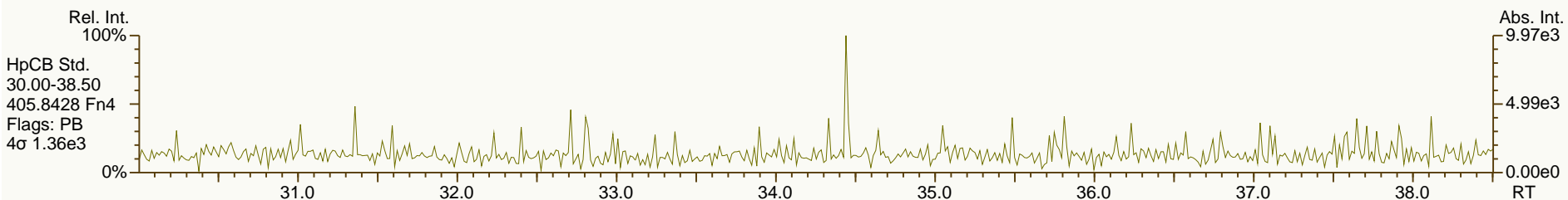
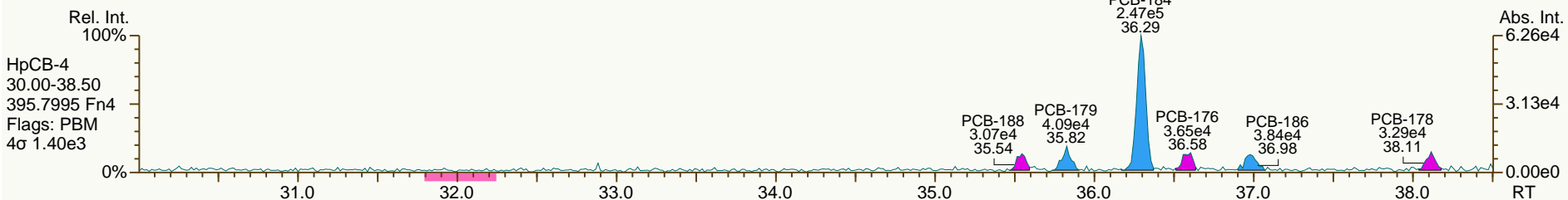
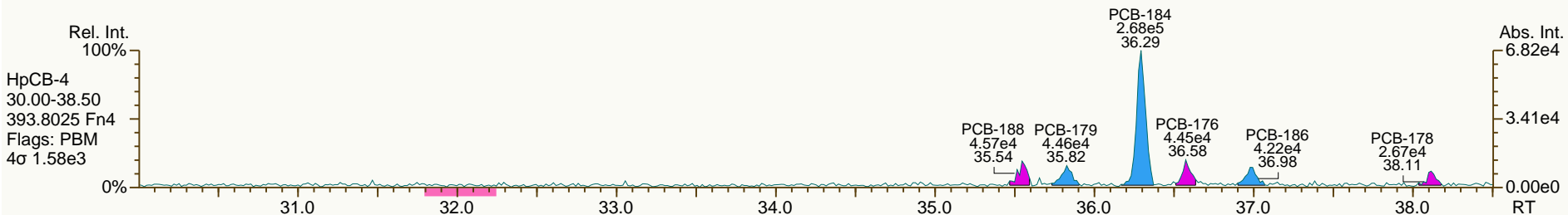
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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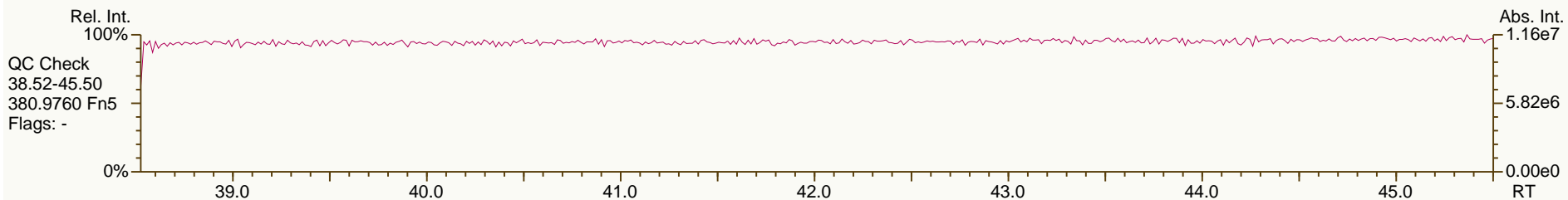
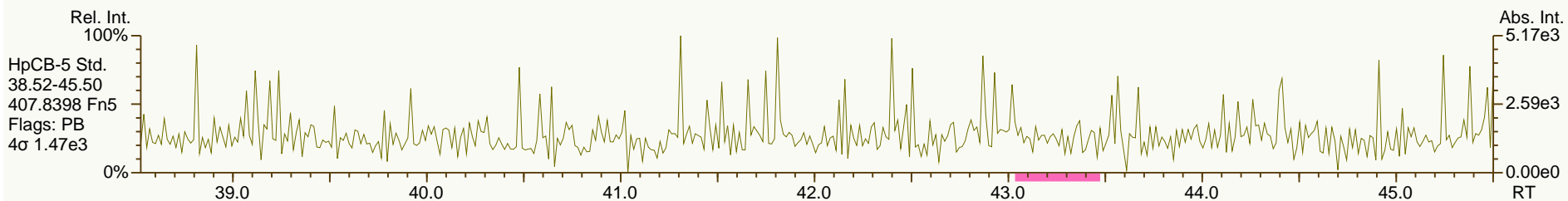
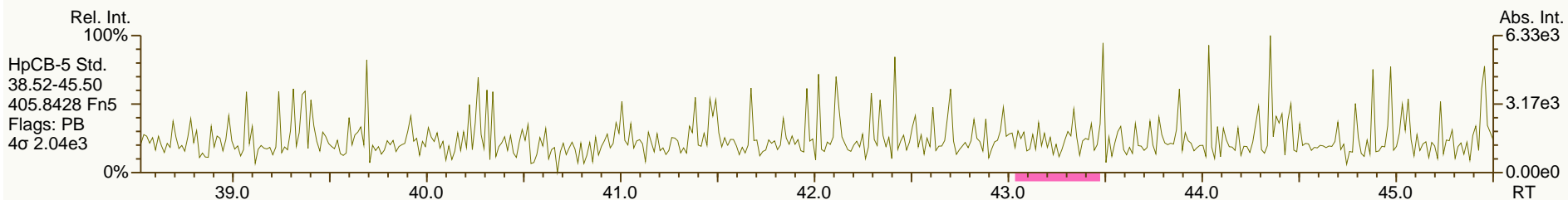
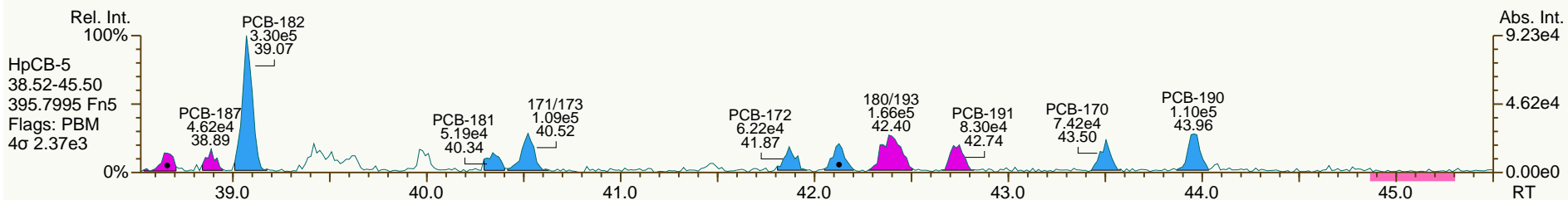
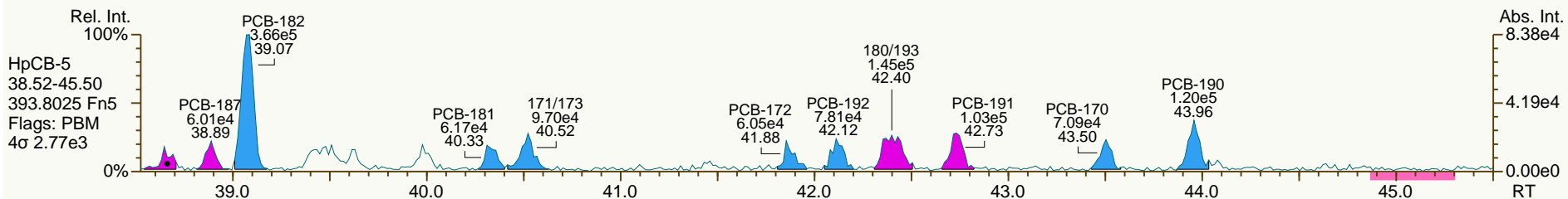
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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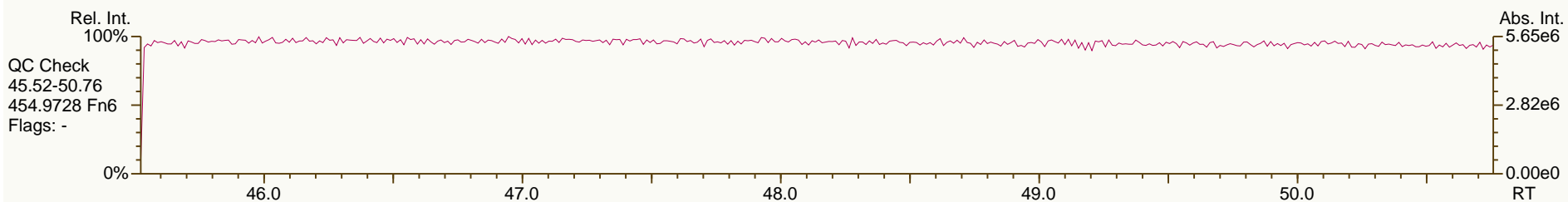
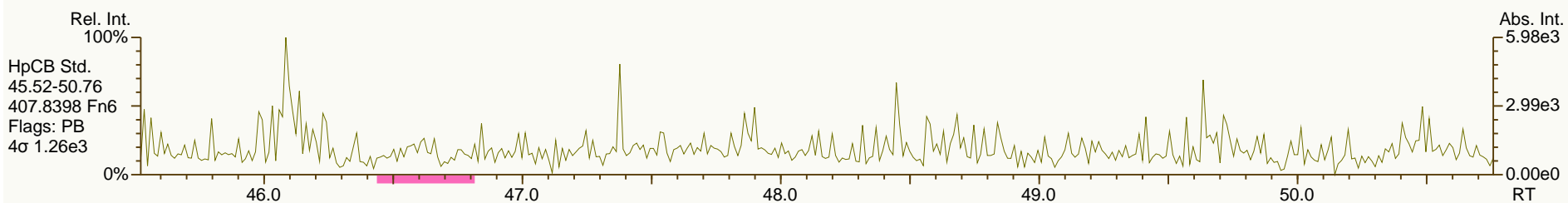
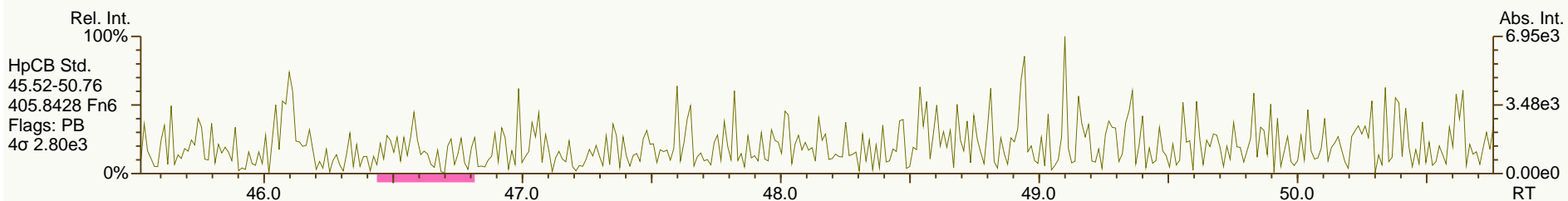
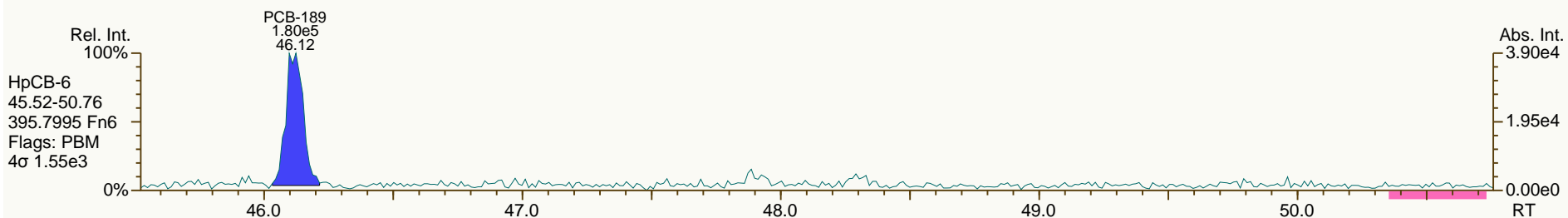
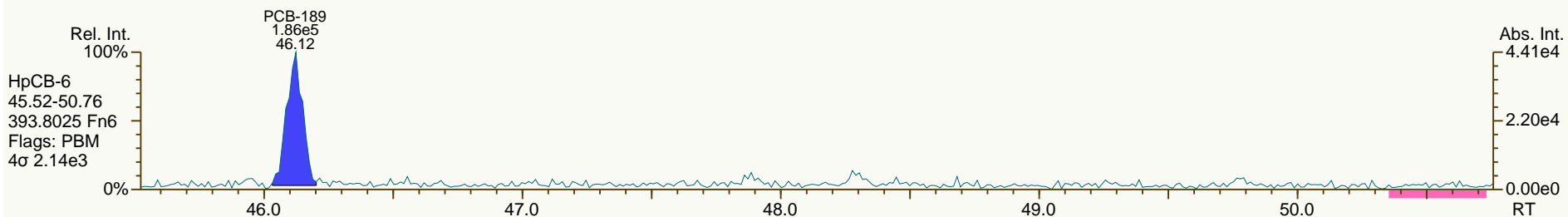
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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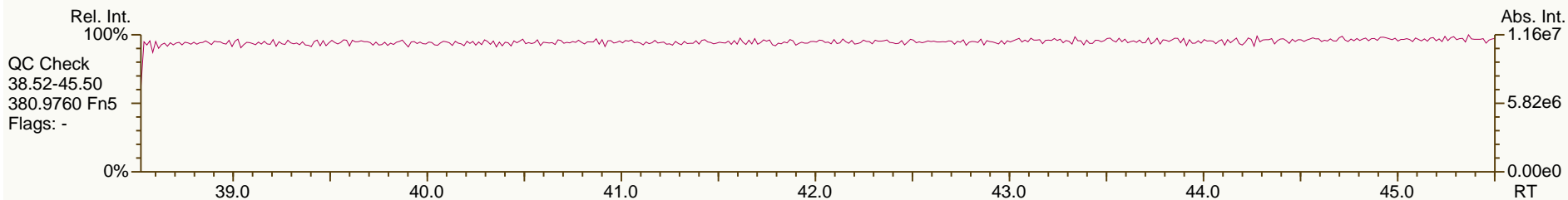
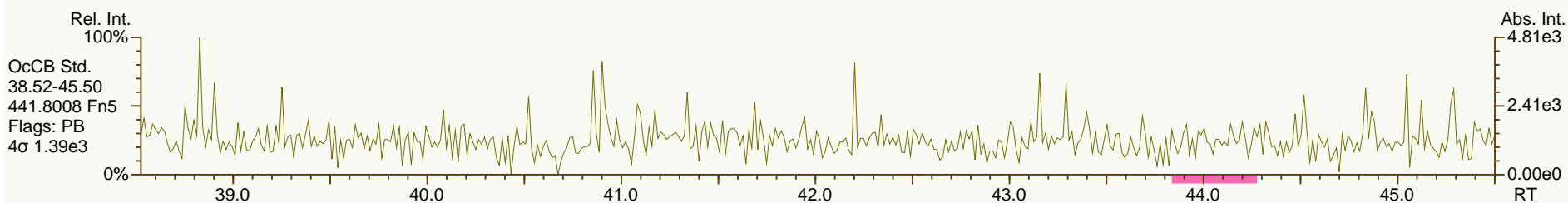
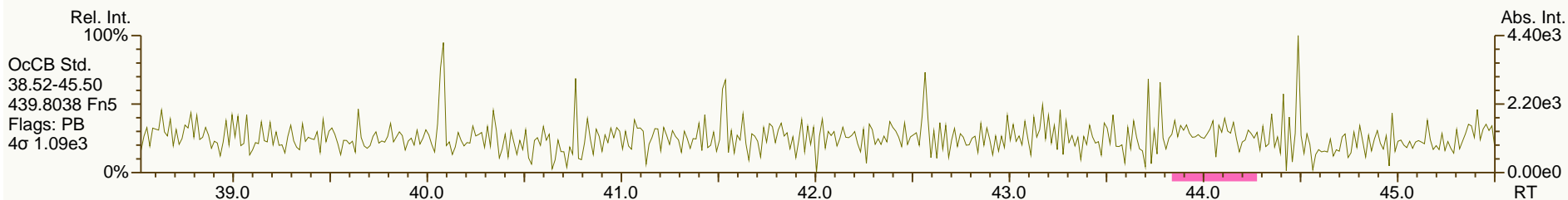
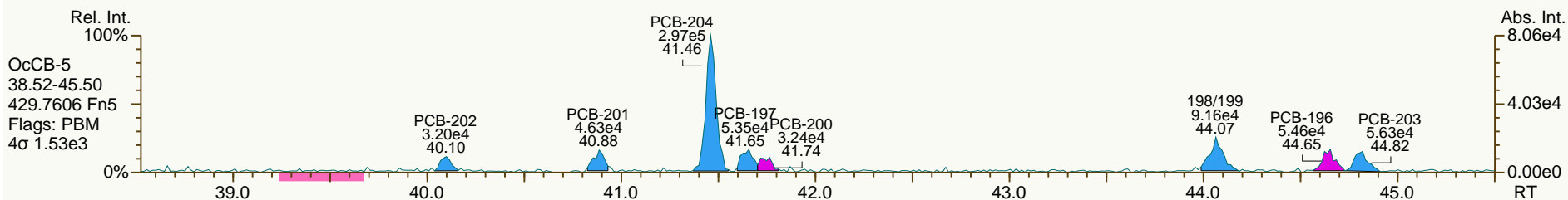
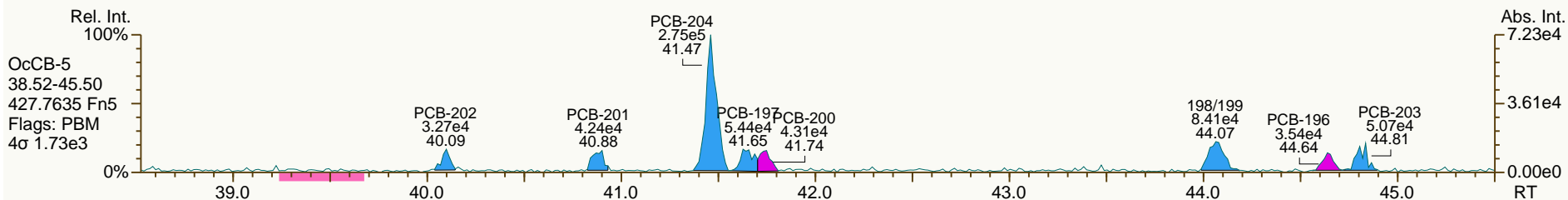
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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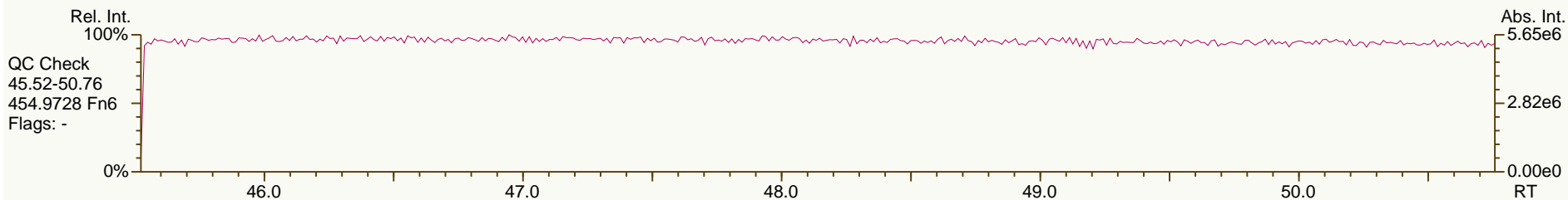
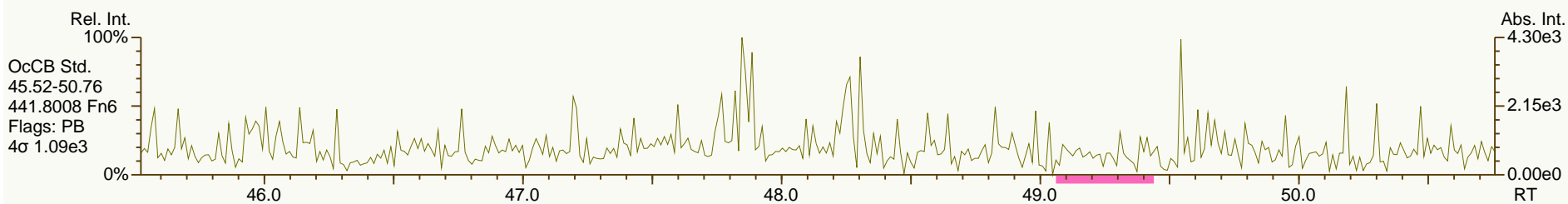
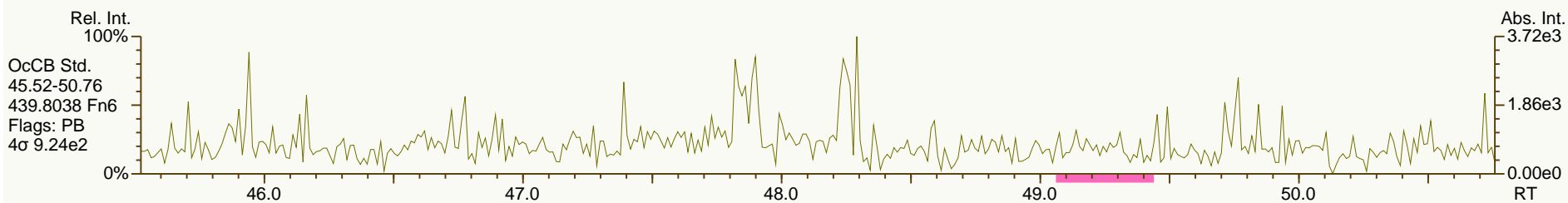
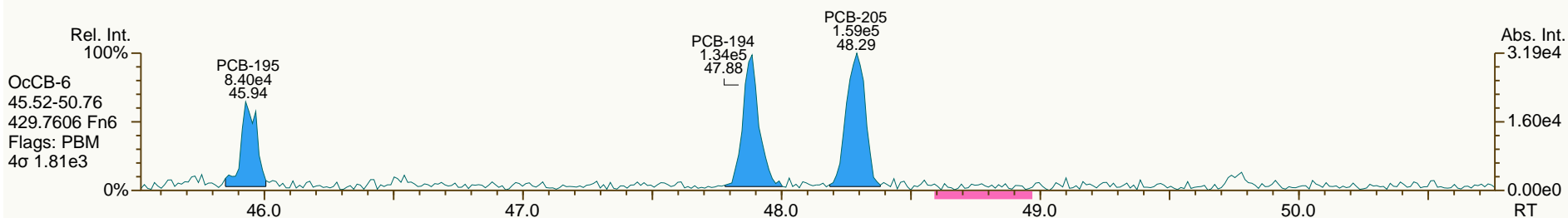
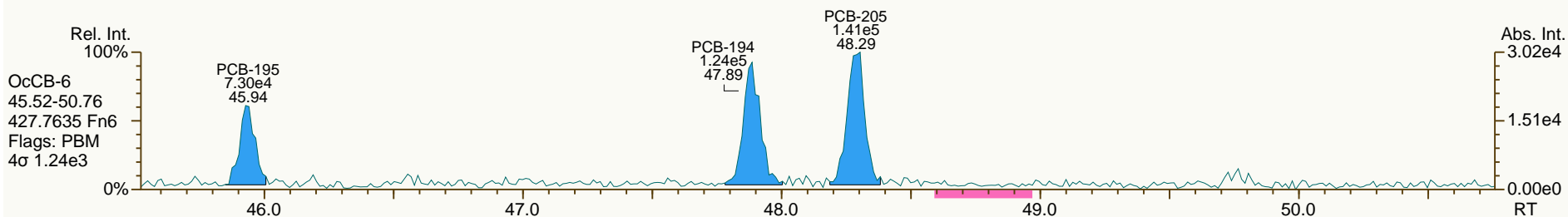




SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

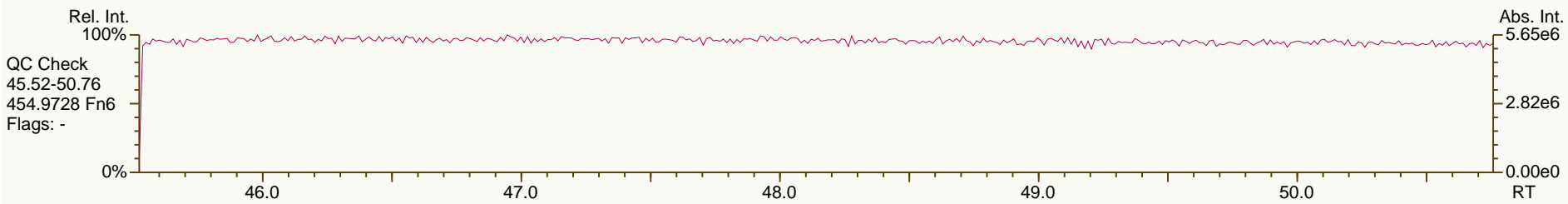
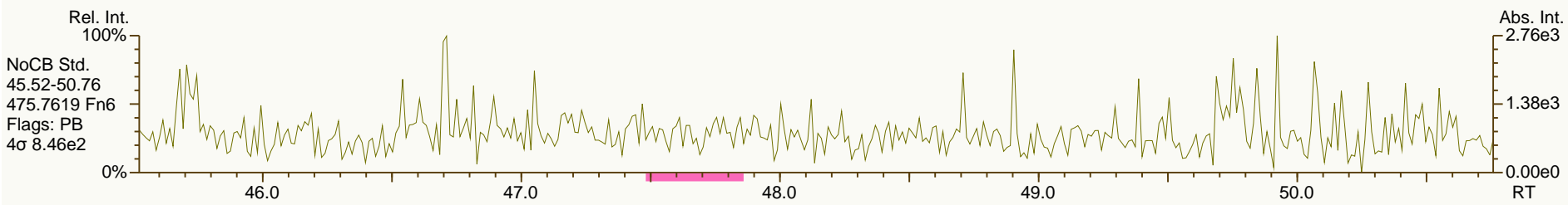
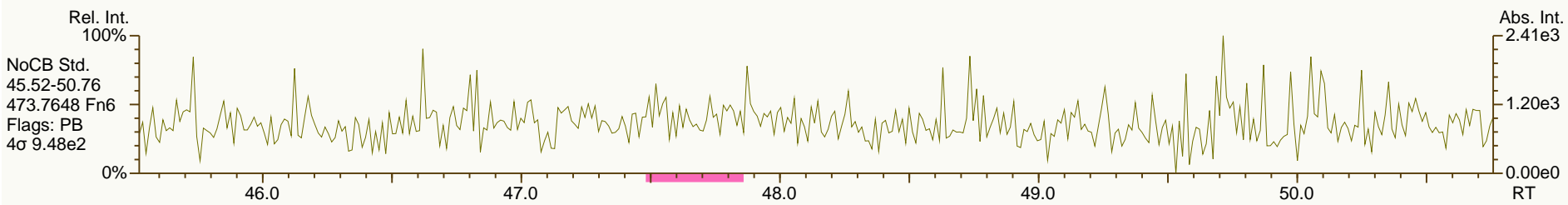
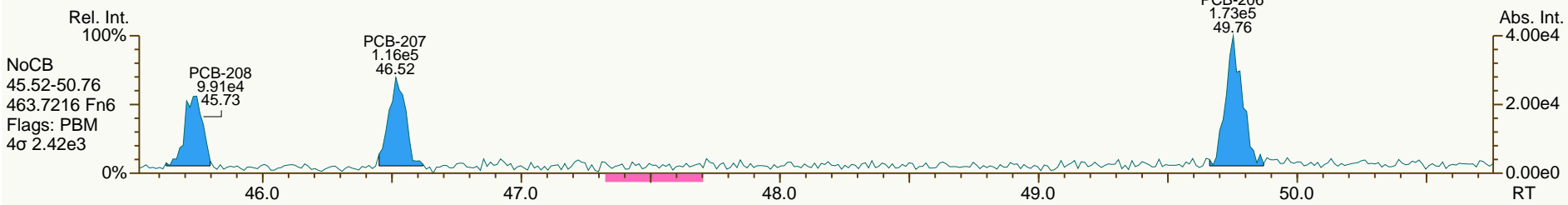
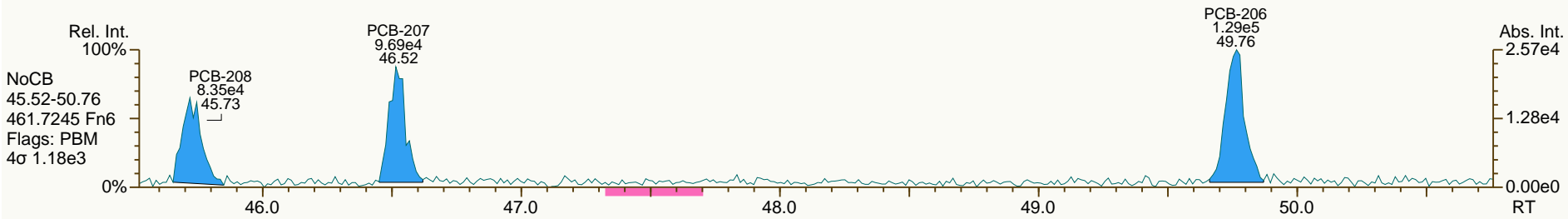
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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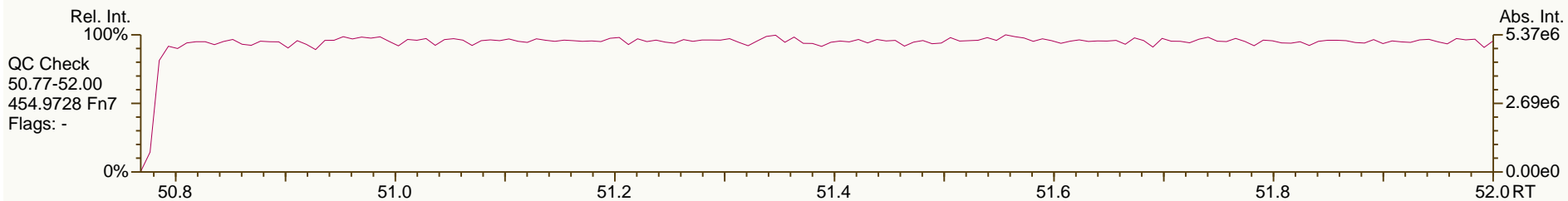
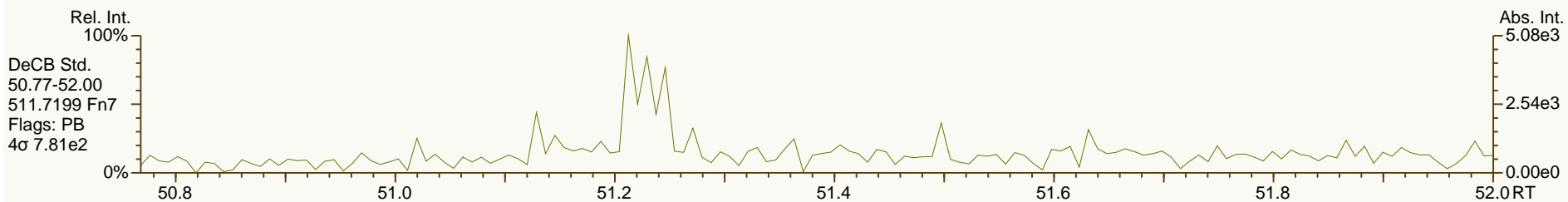
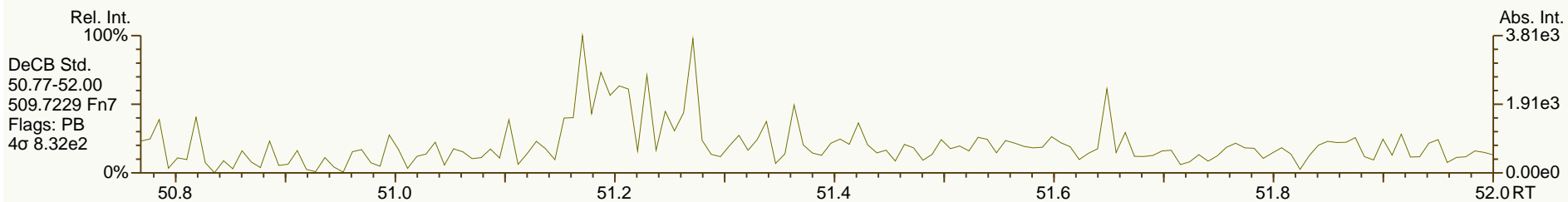
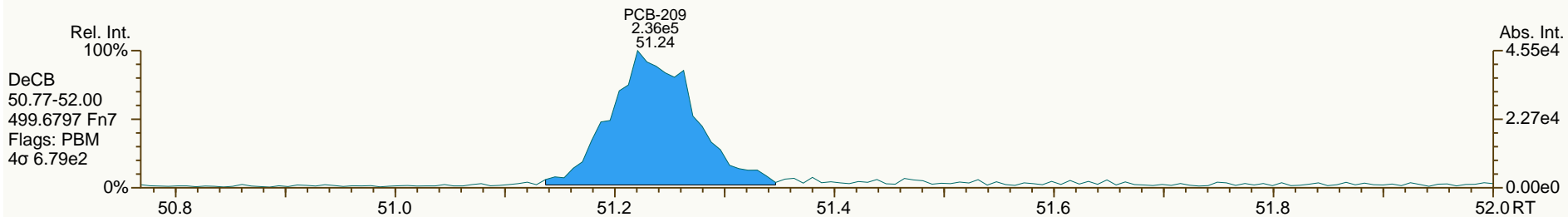
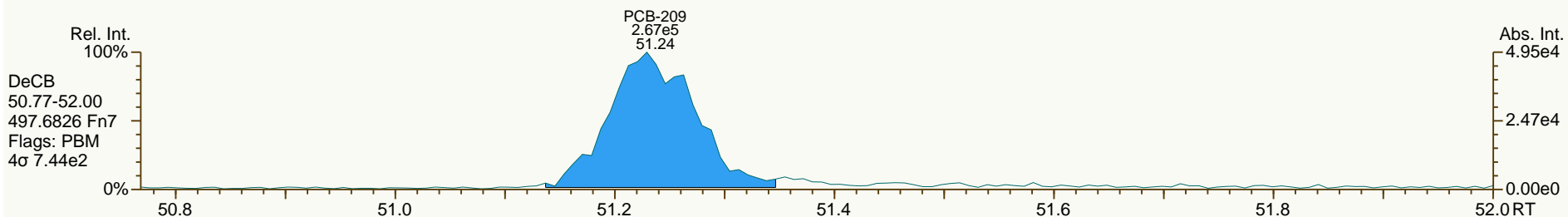
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

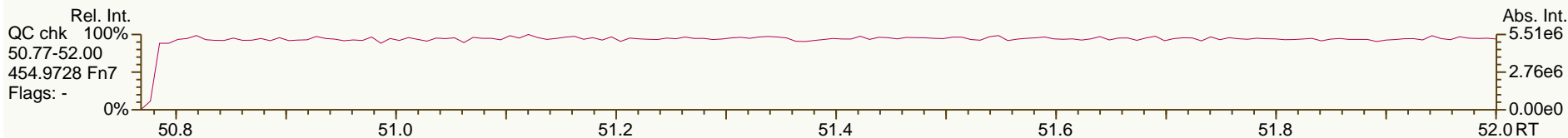
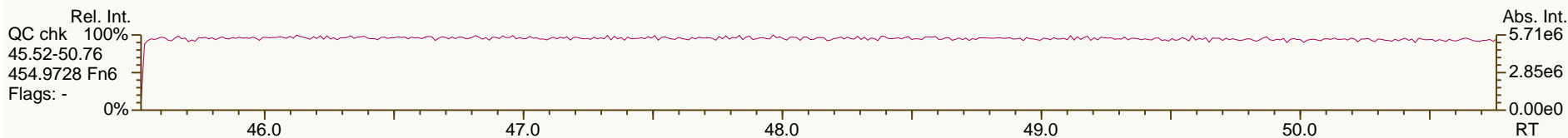
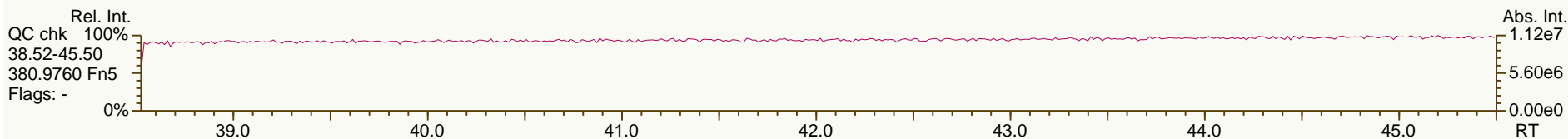
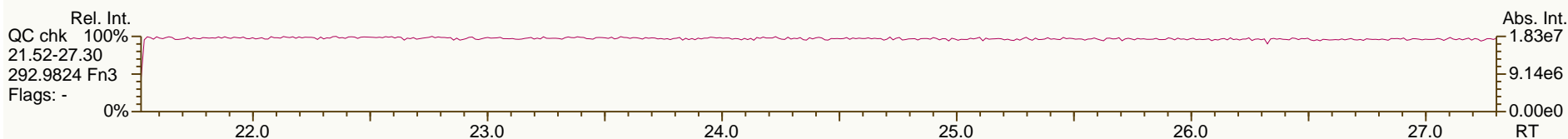
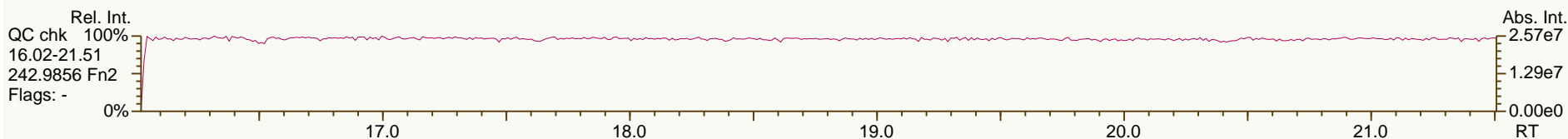
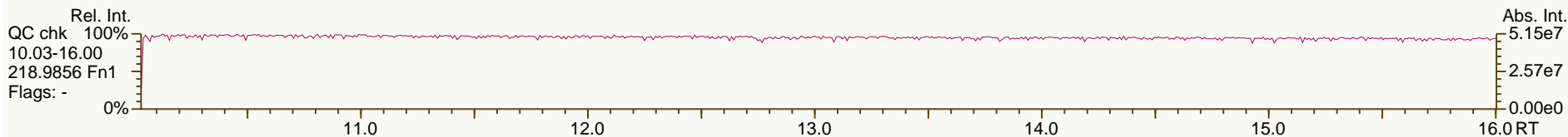
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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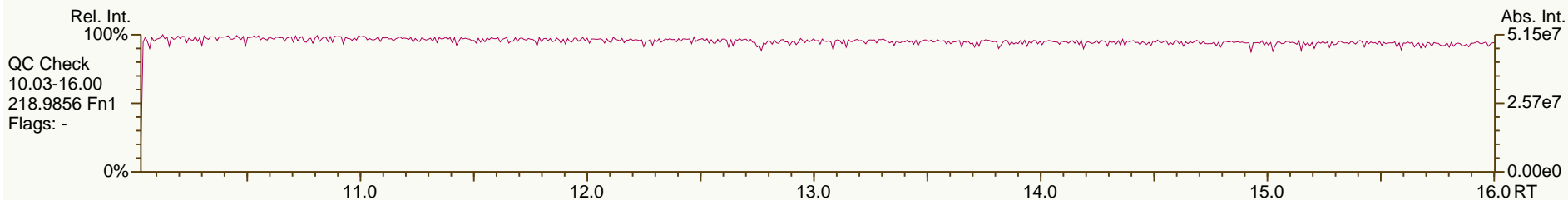
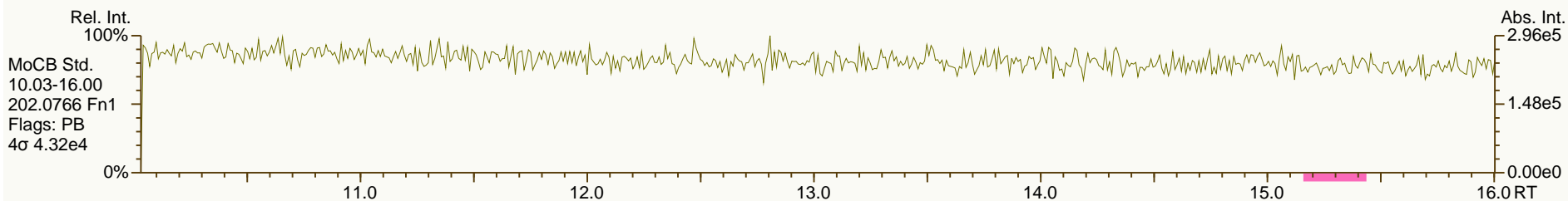
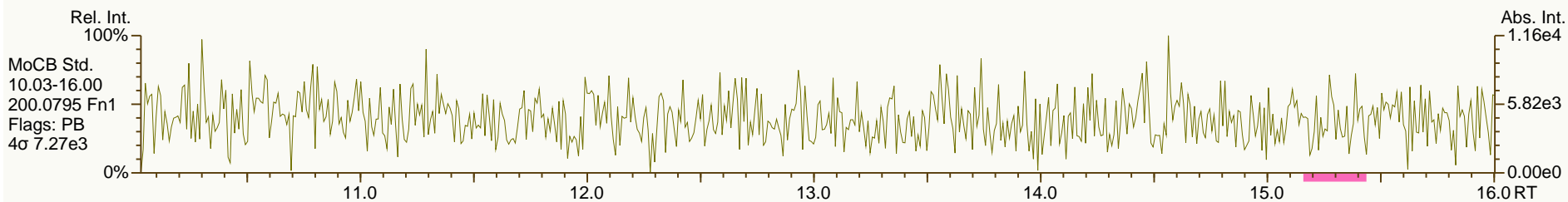
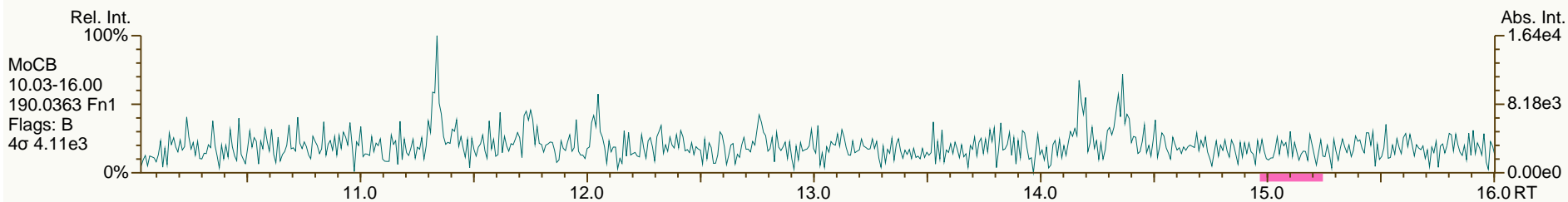
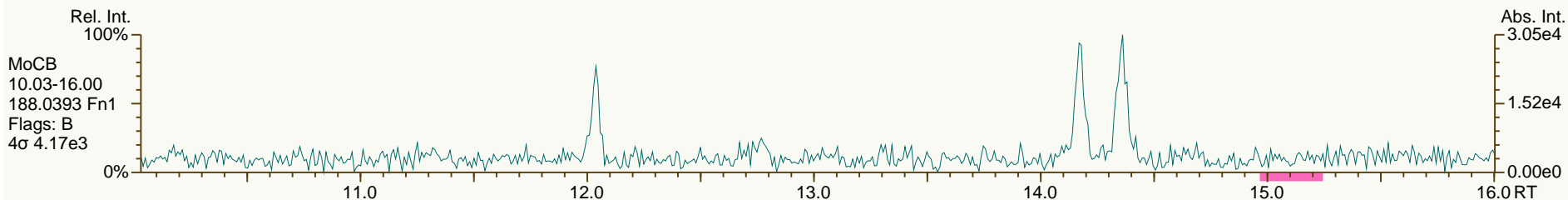
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Instr: AutoSpec-Premier MM7

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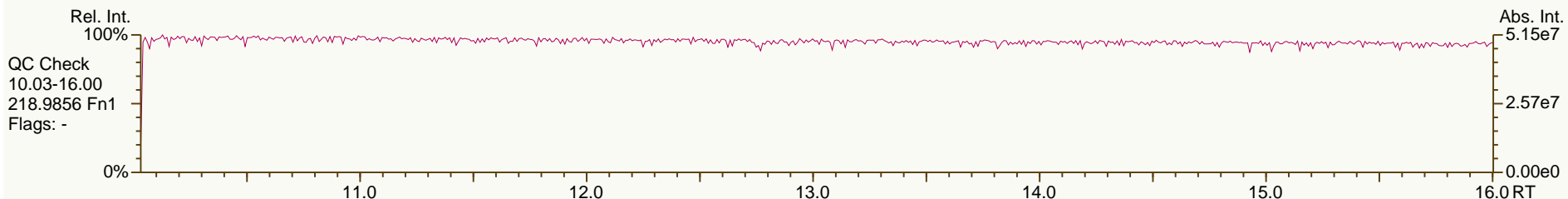
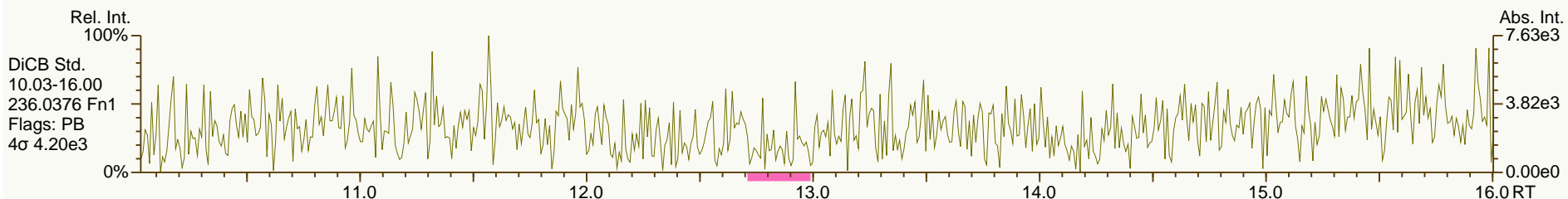
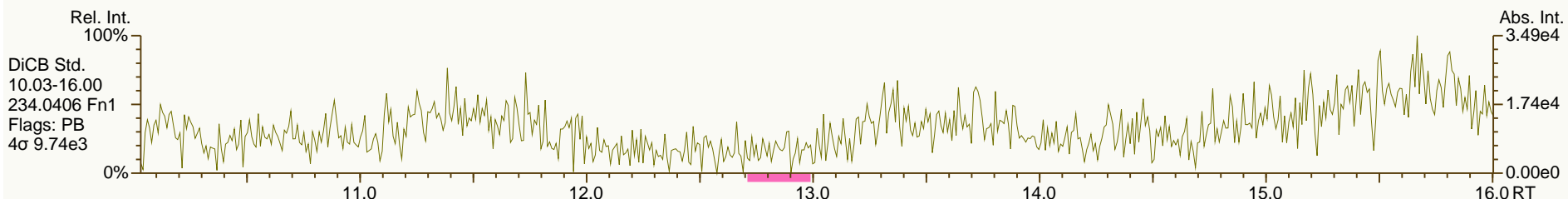
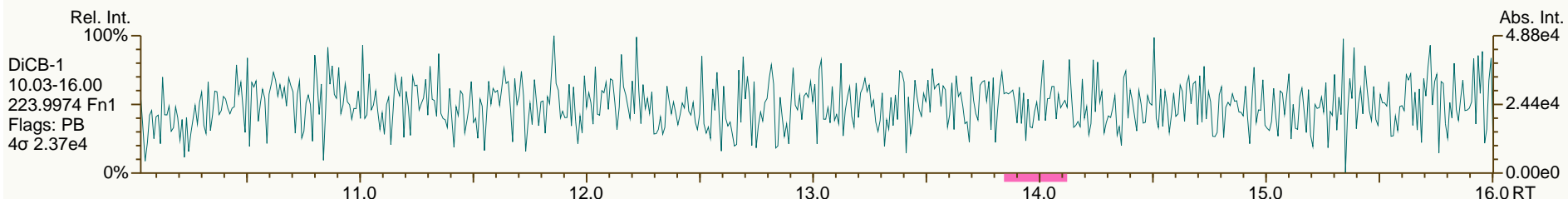
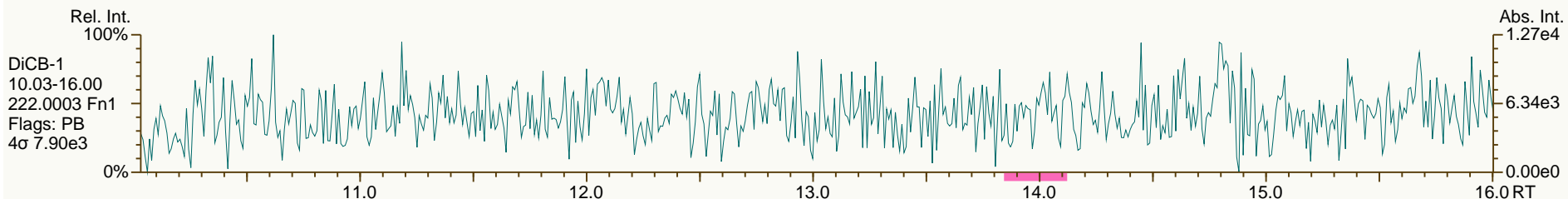
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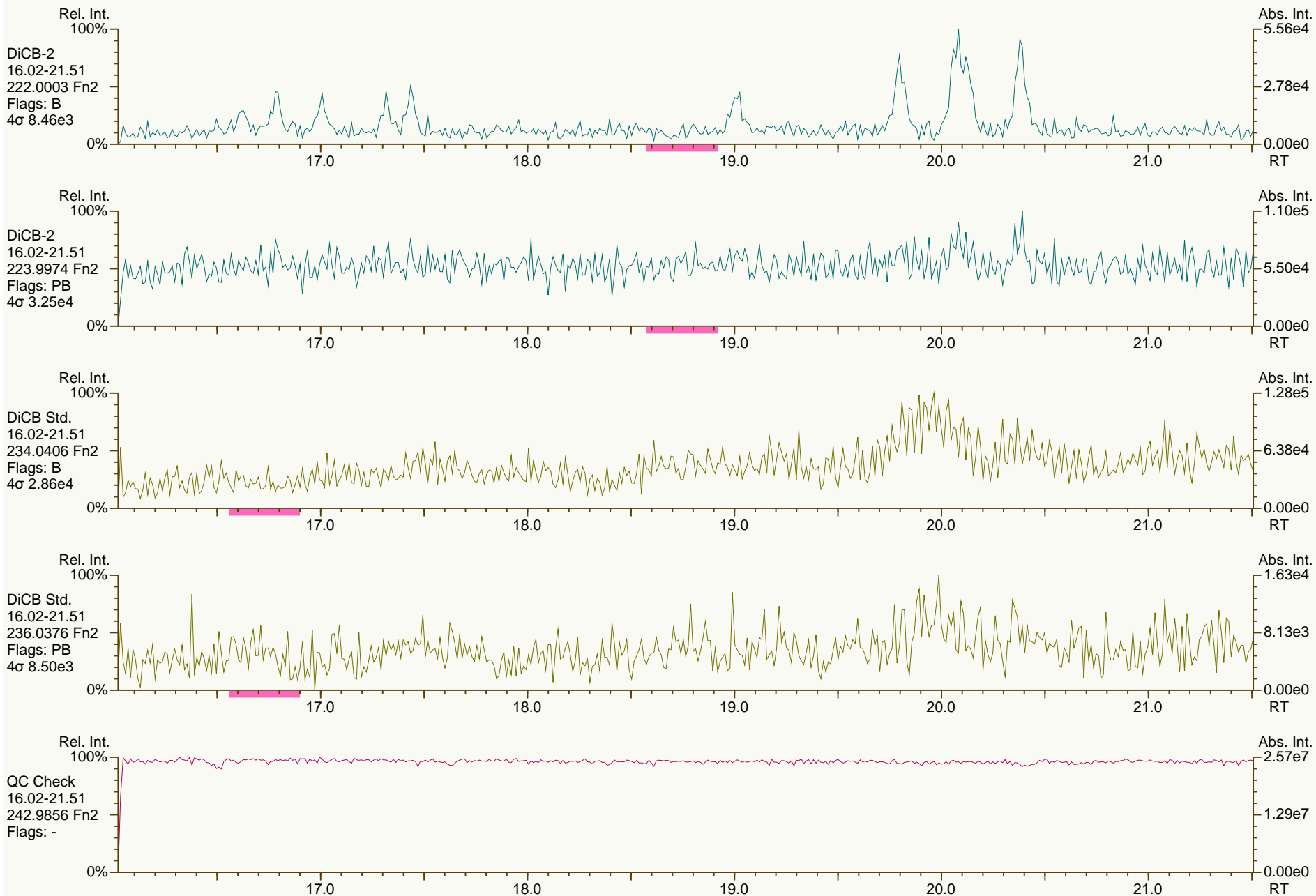
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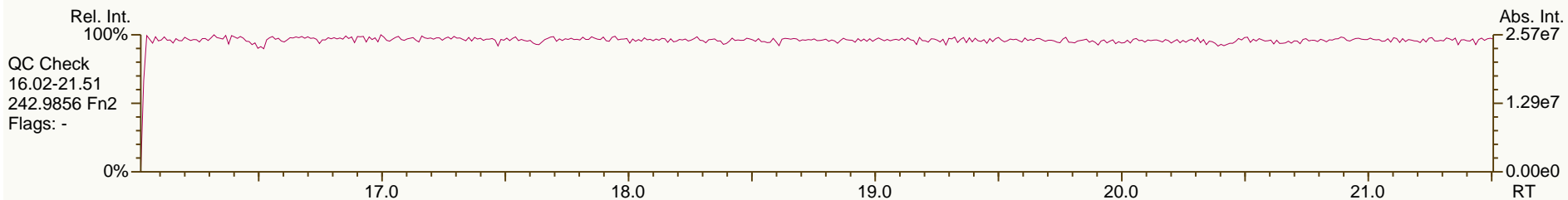
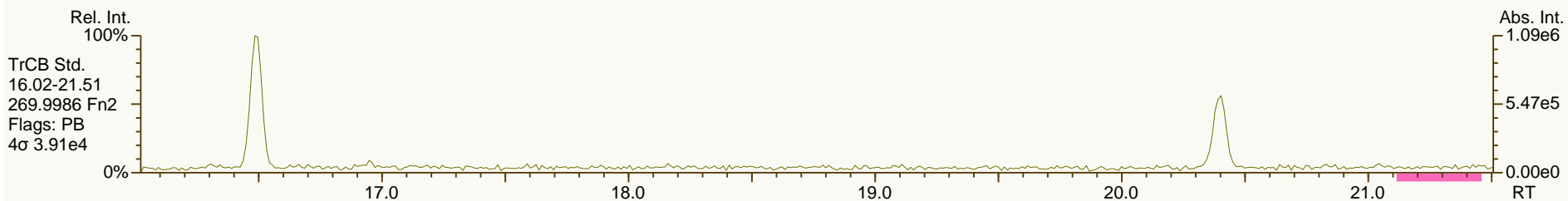
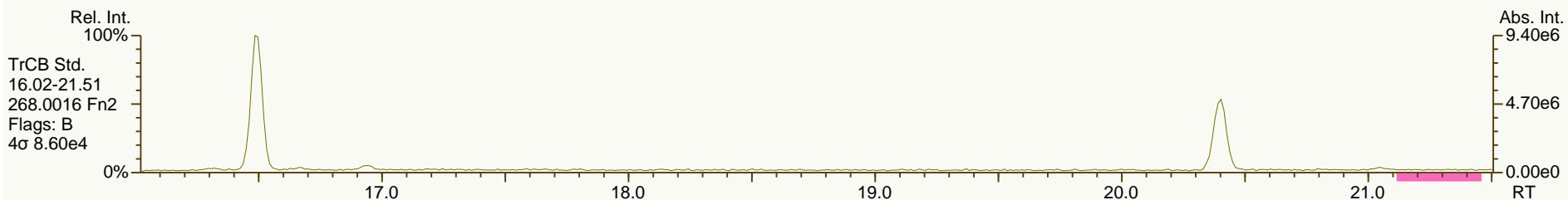
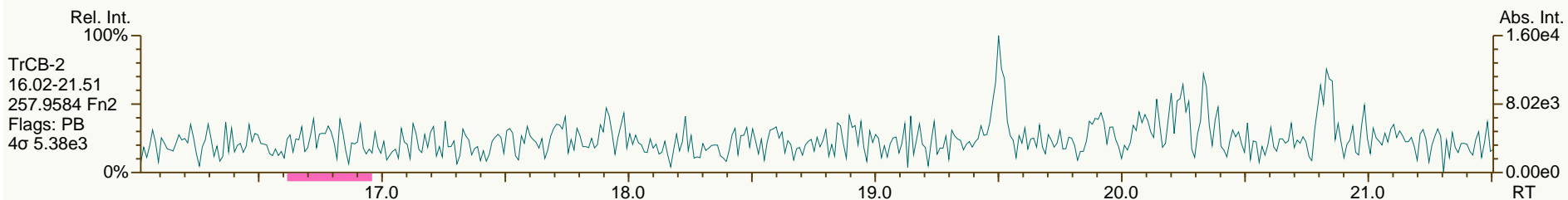
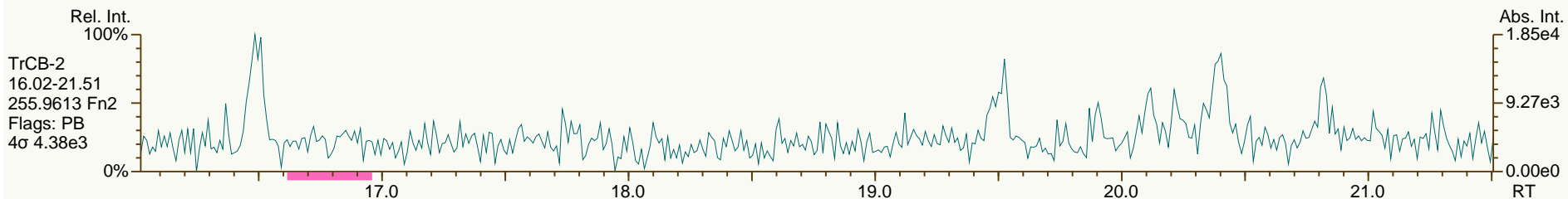
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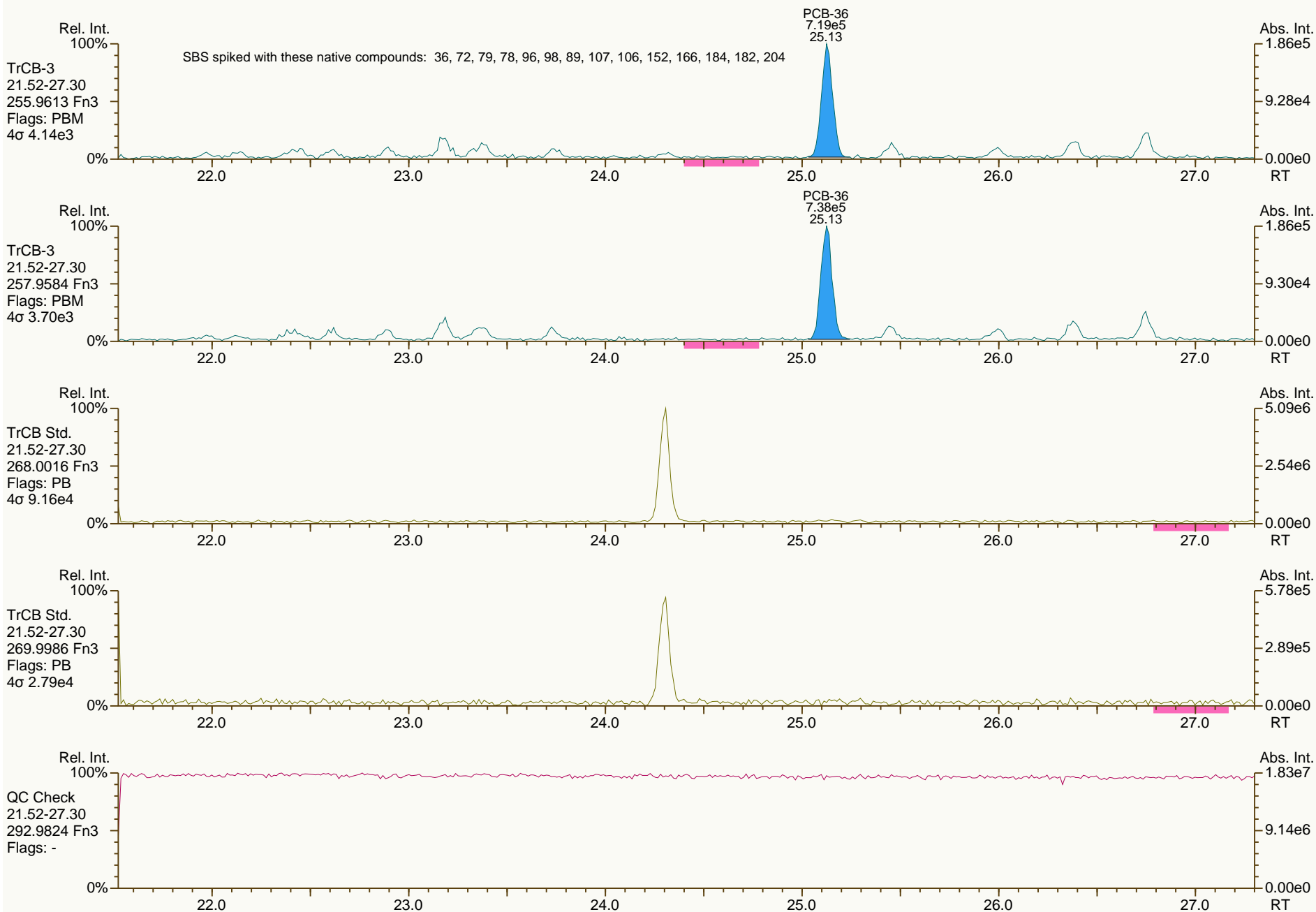




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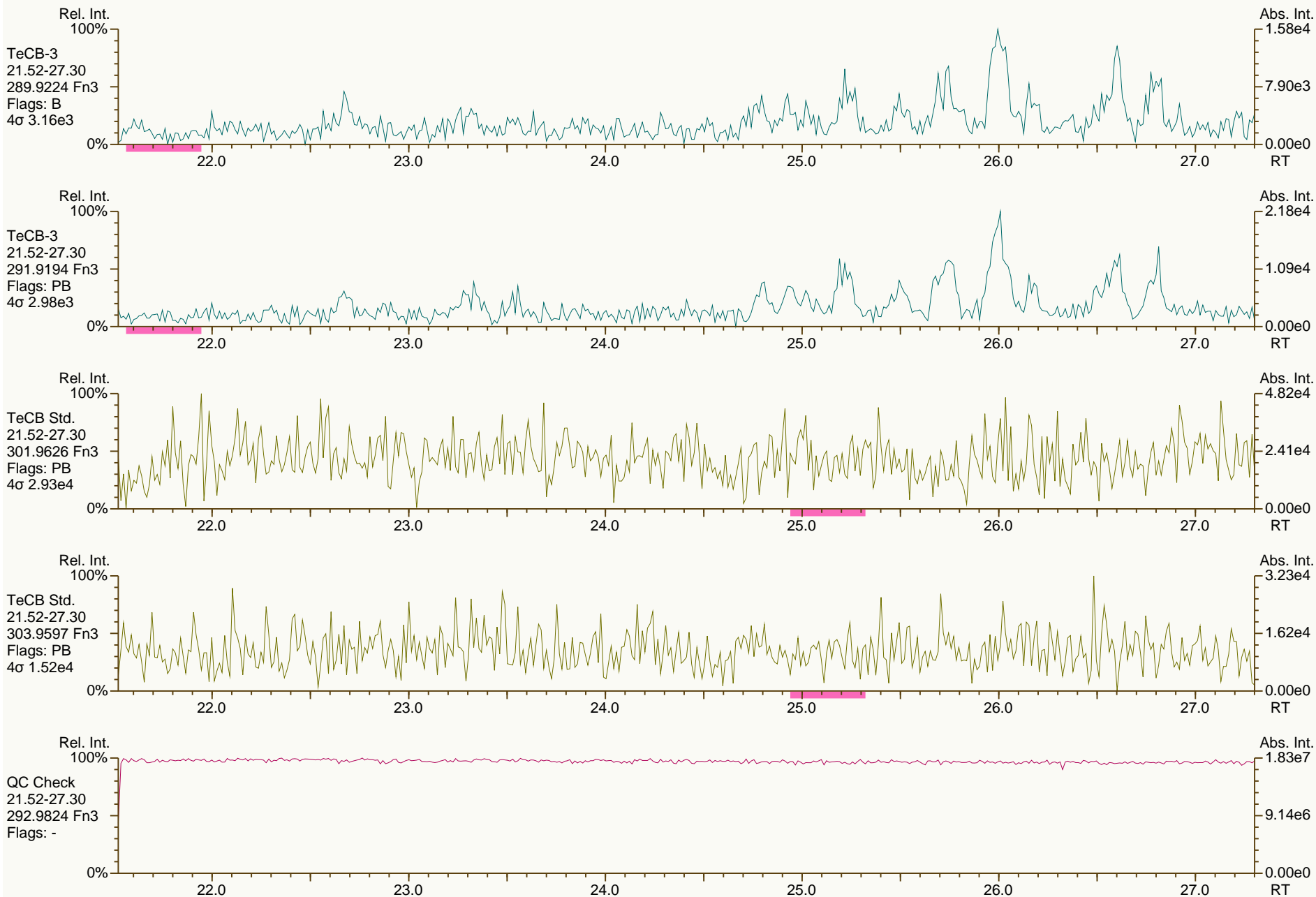
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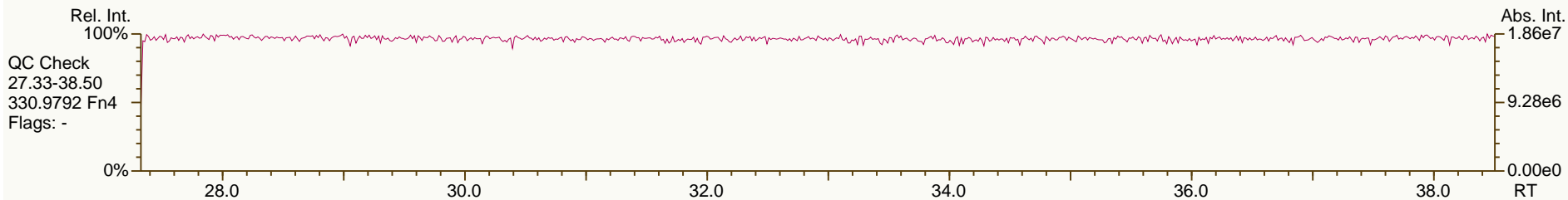
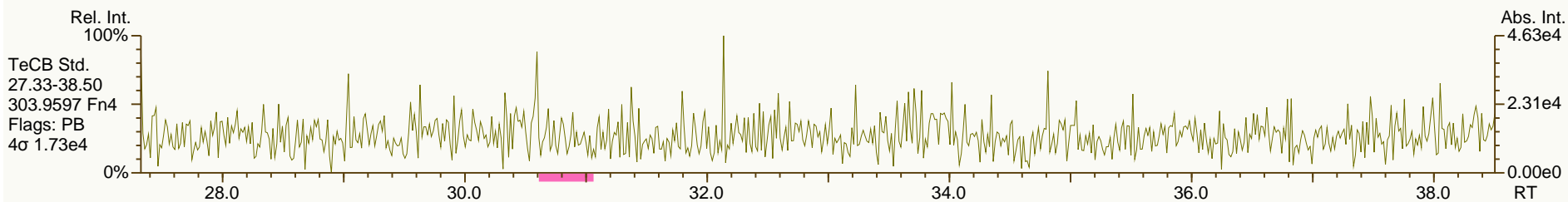
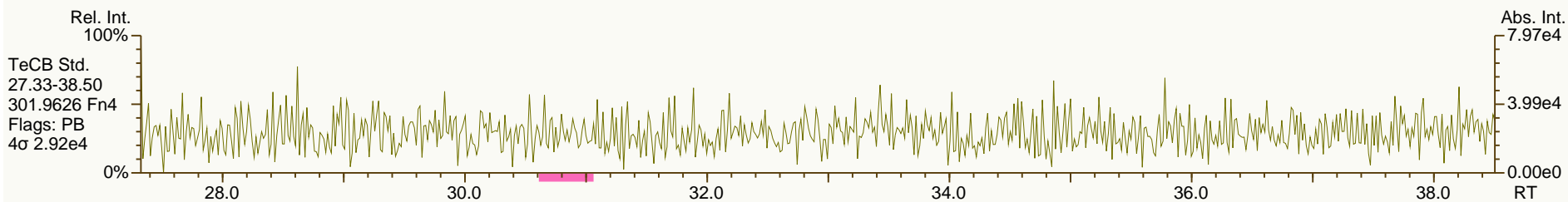
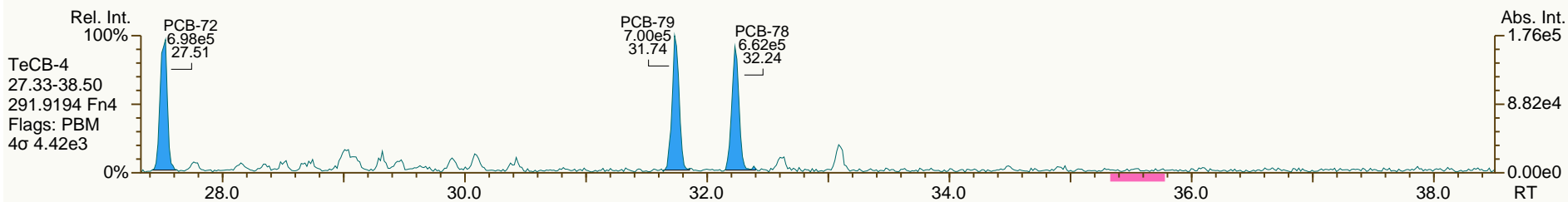
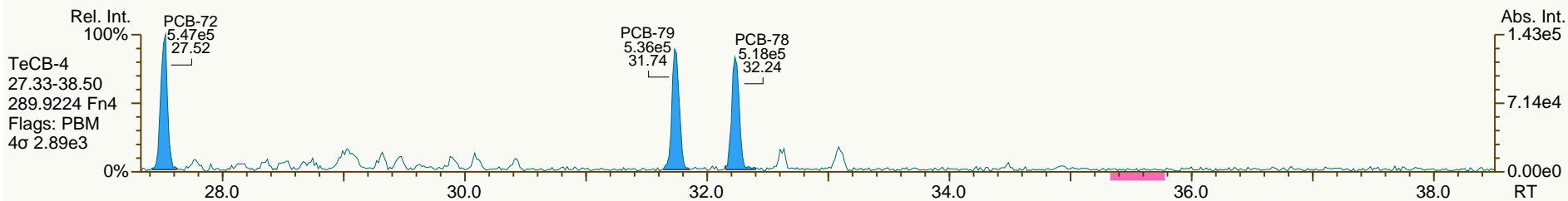
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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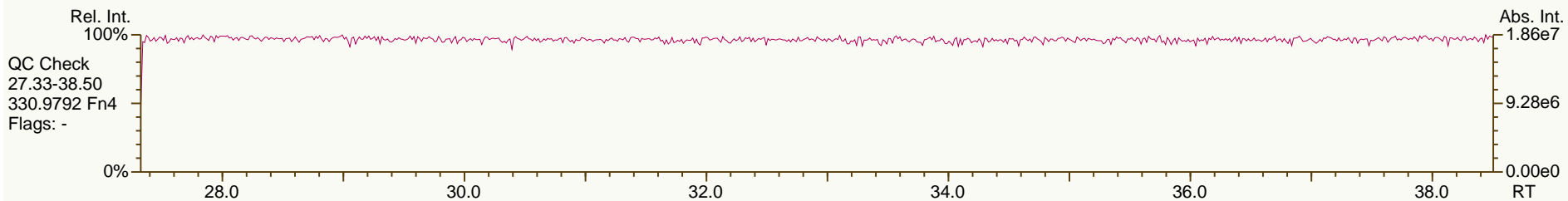
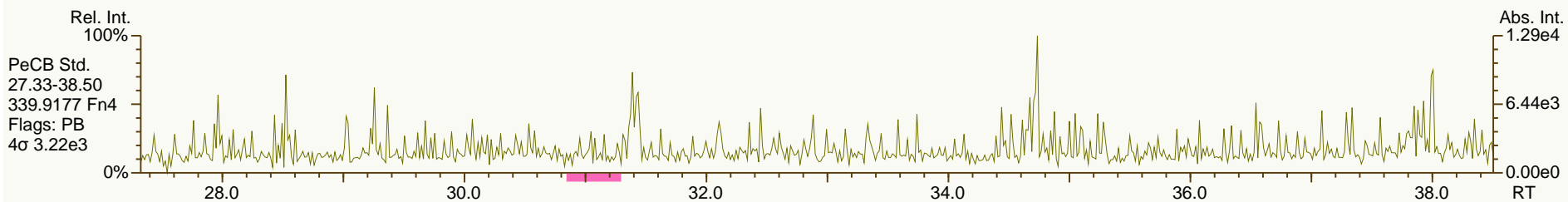
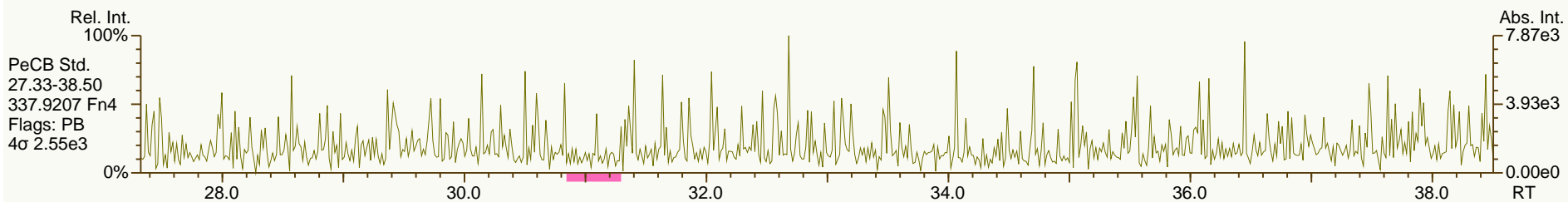
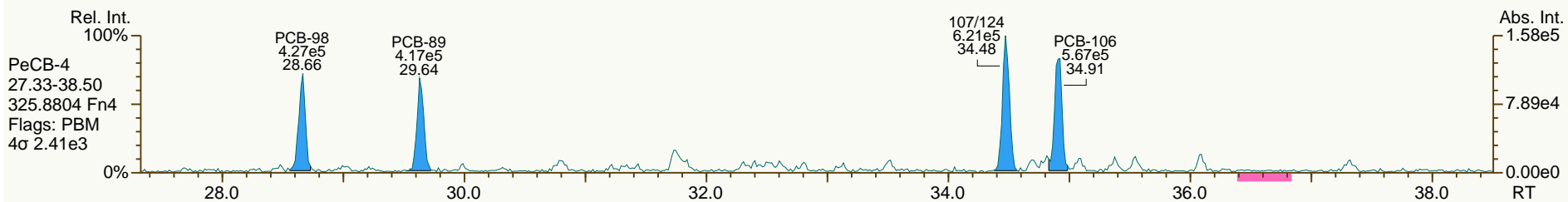
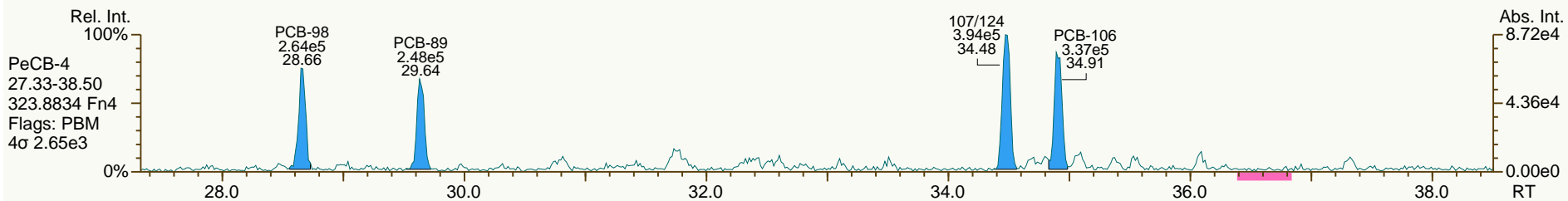
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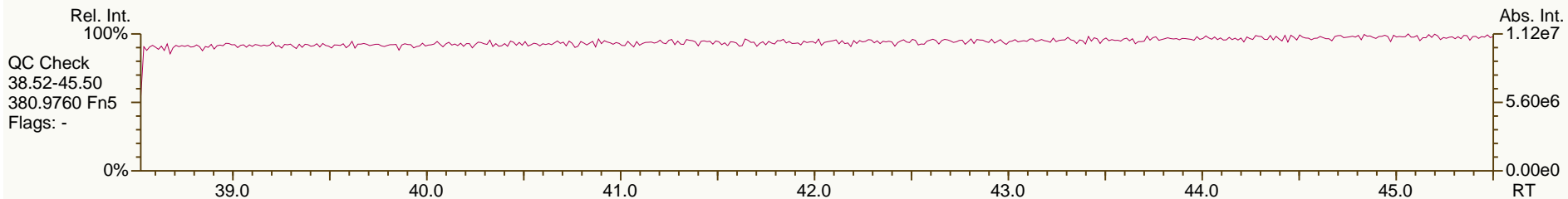
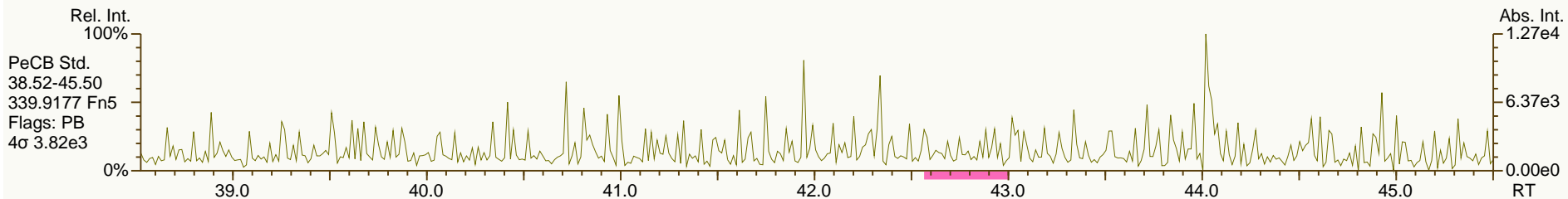
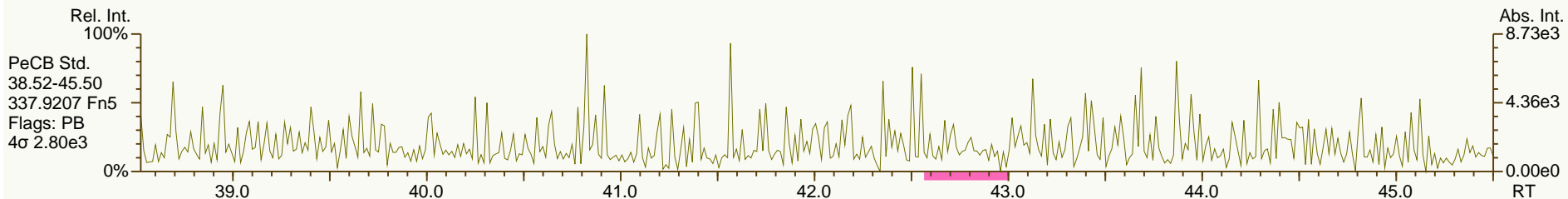
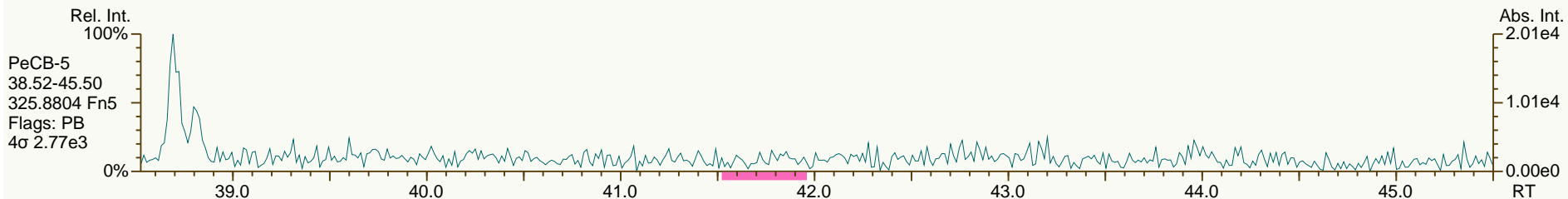
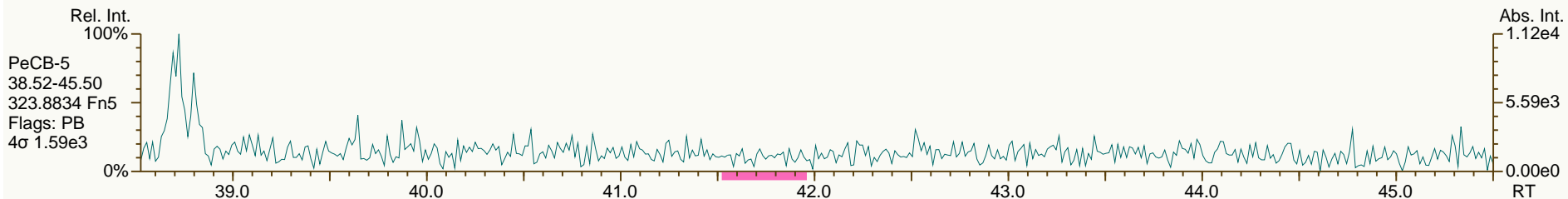
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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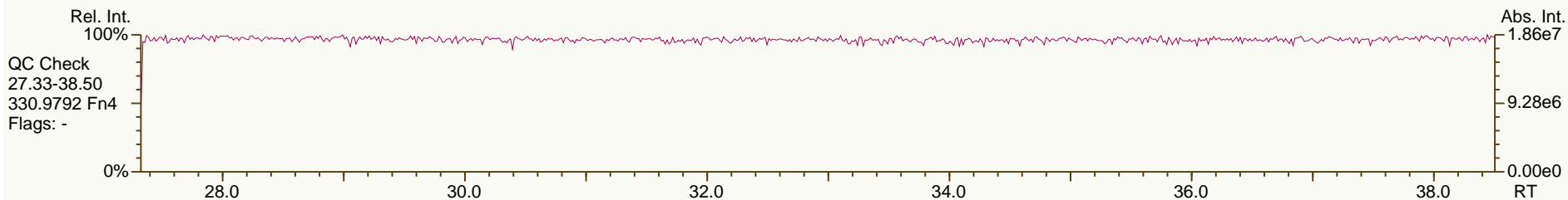
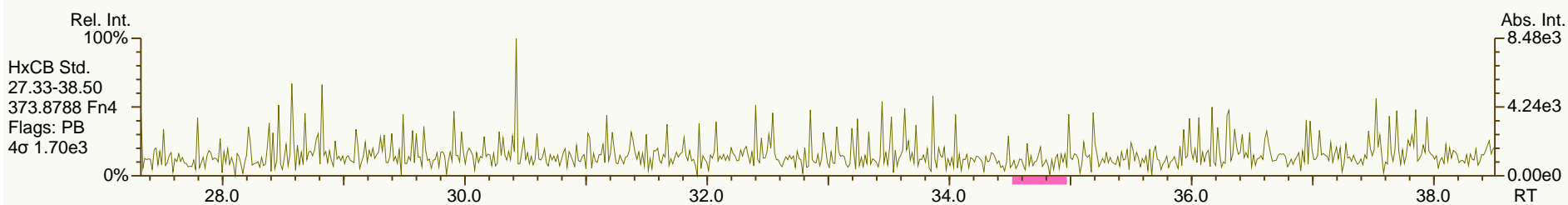
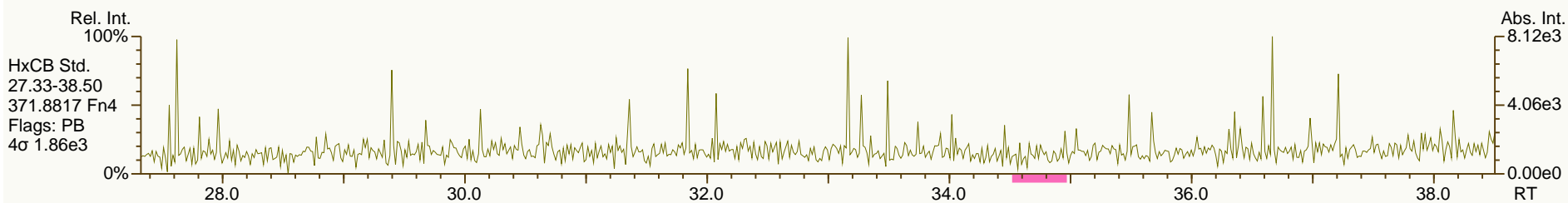
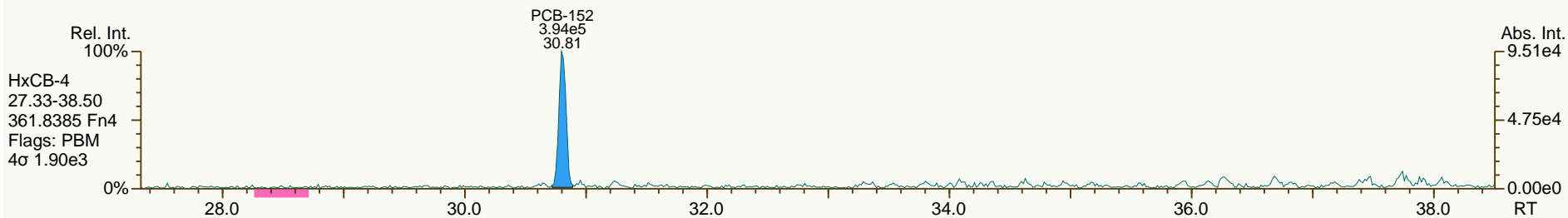
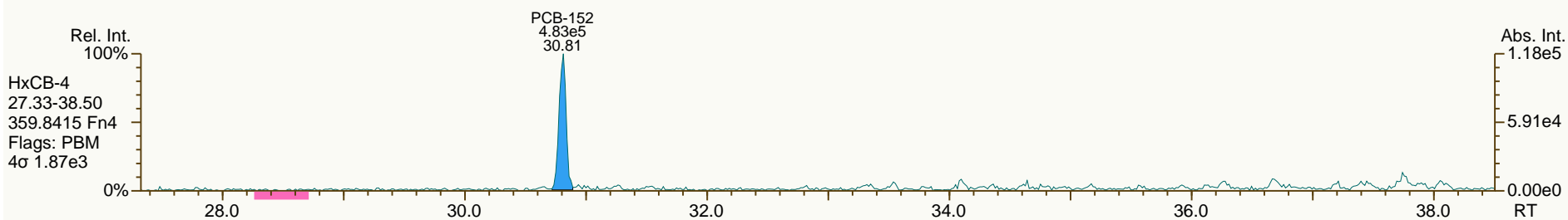
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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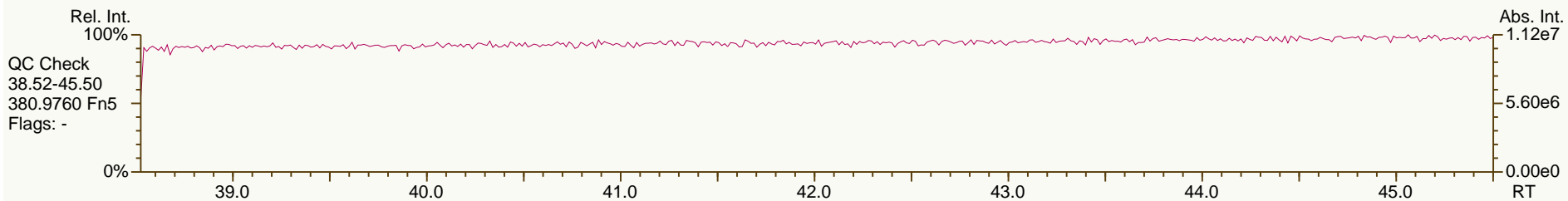
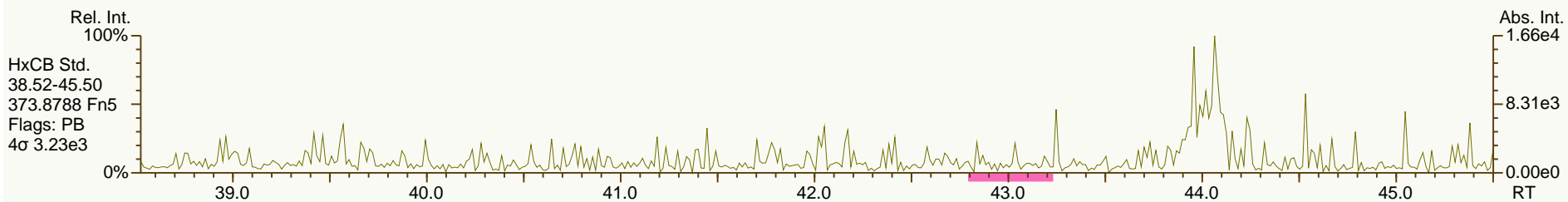
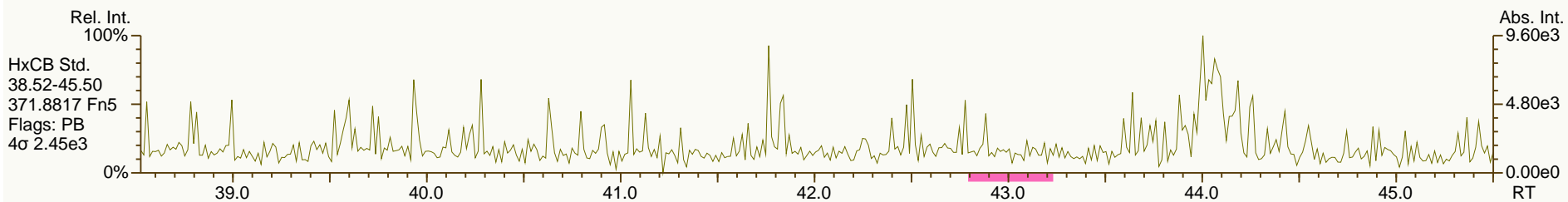
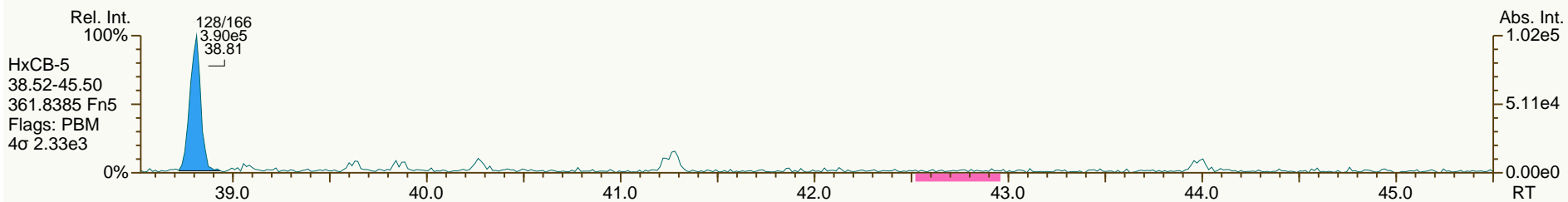
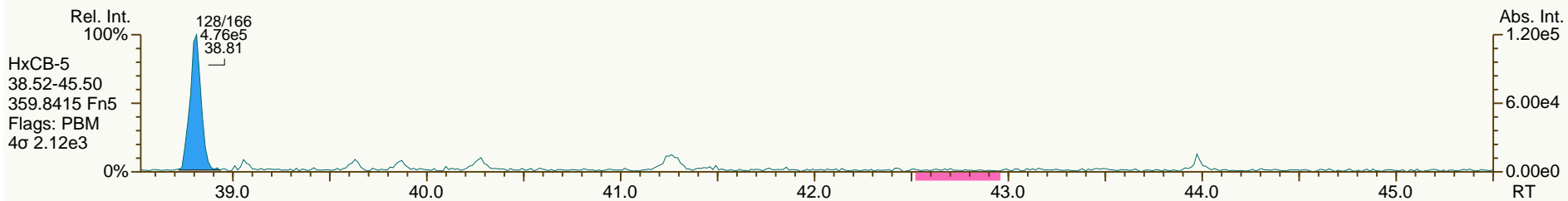




SGS-AP ID: SBS\_131220\_PCB\_XD  
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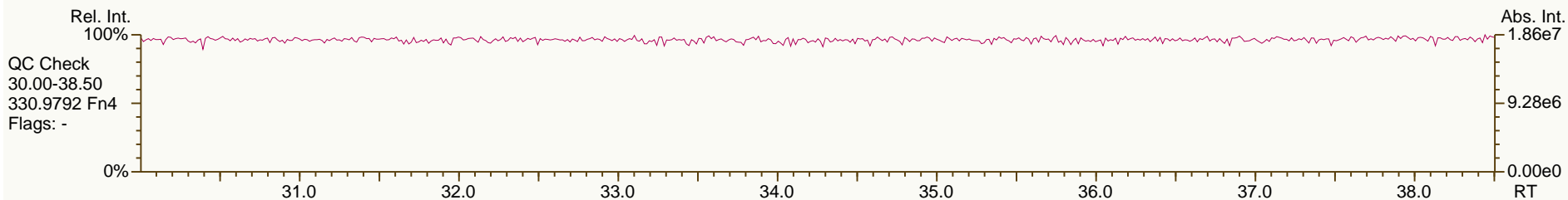
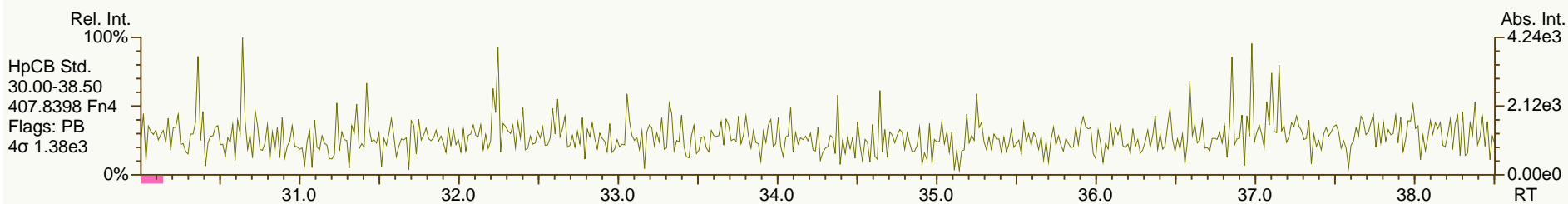
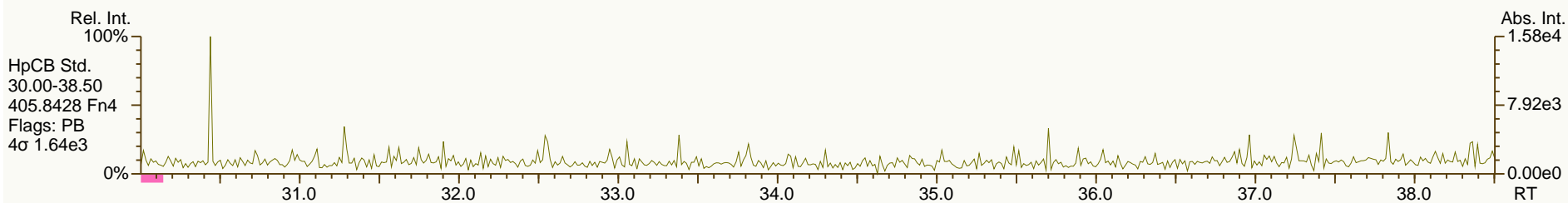
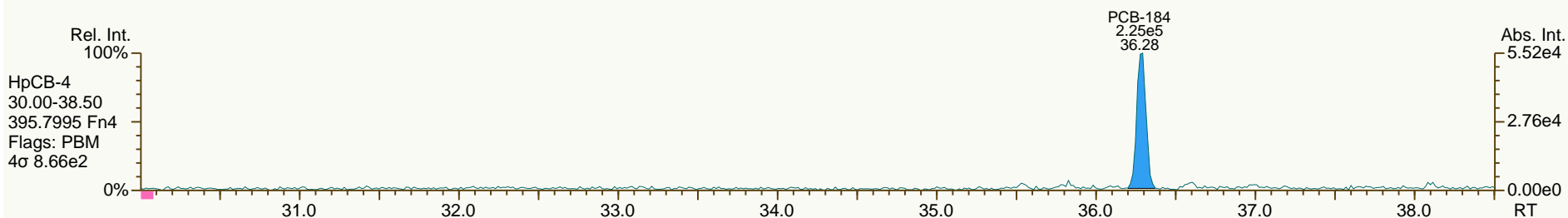
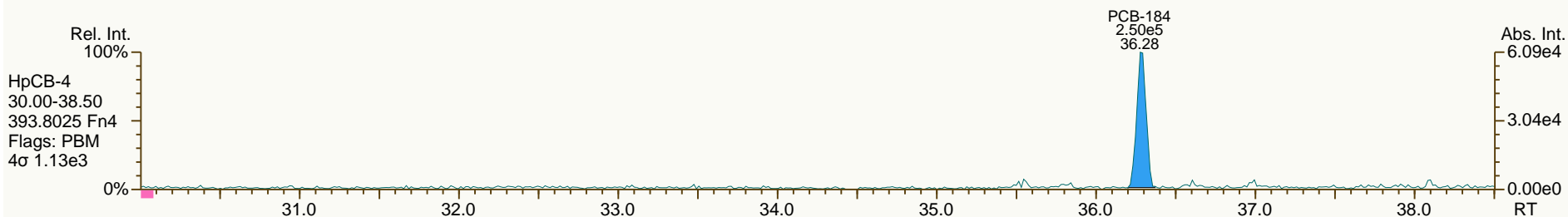
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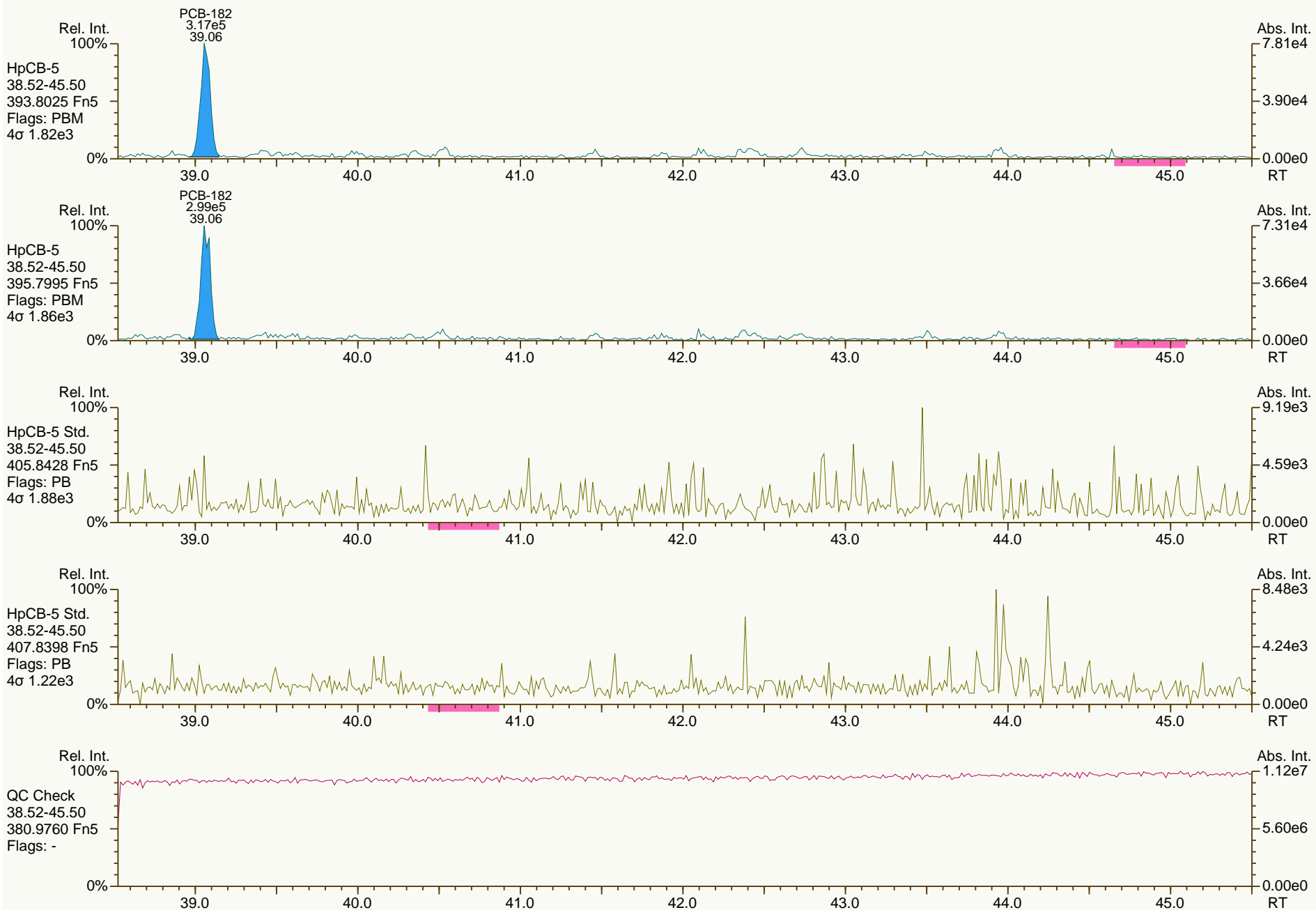
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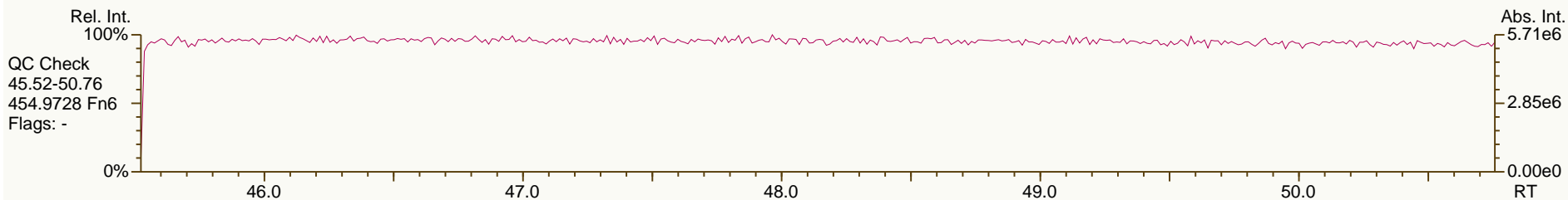
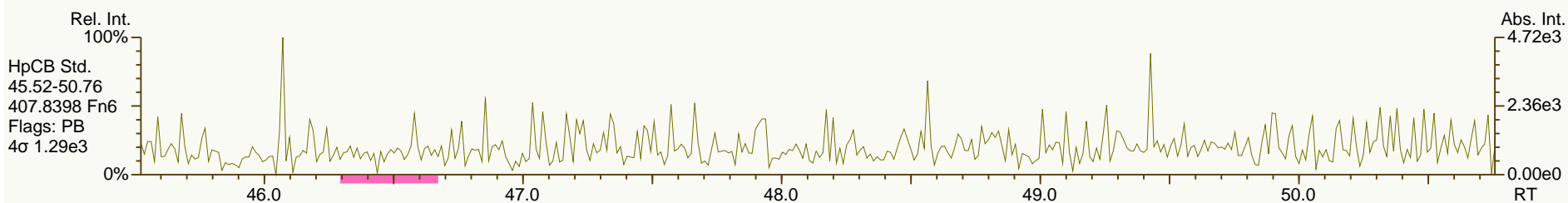
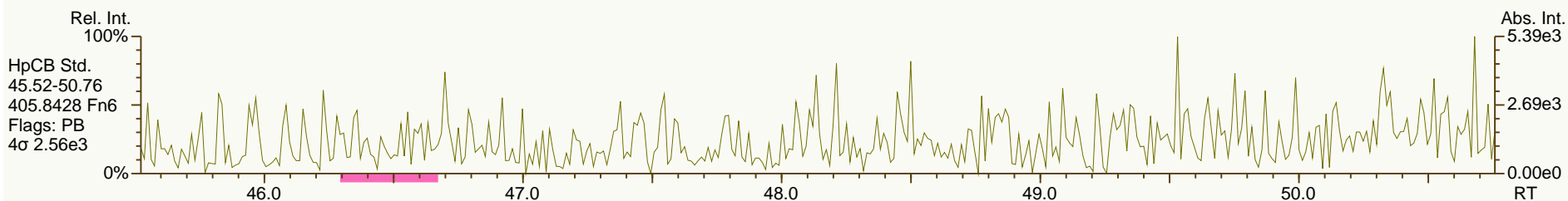
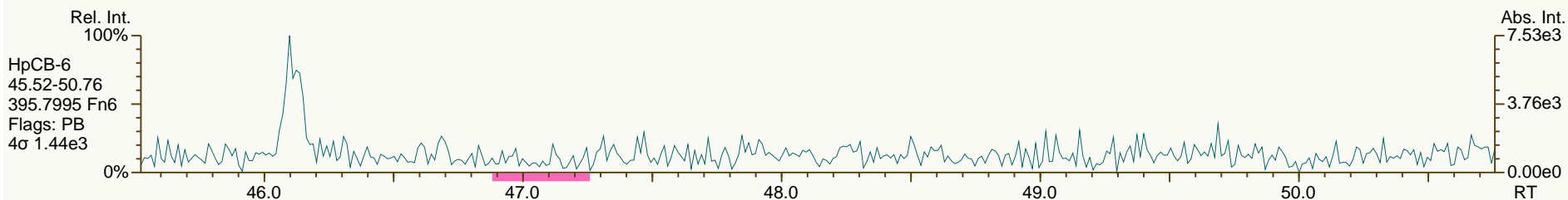
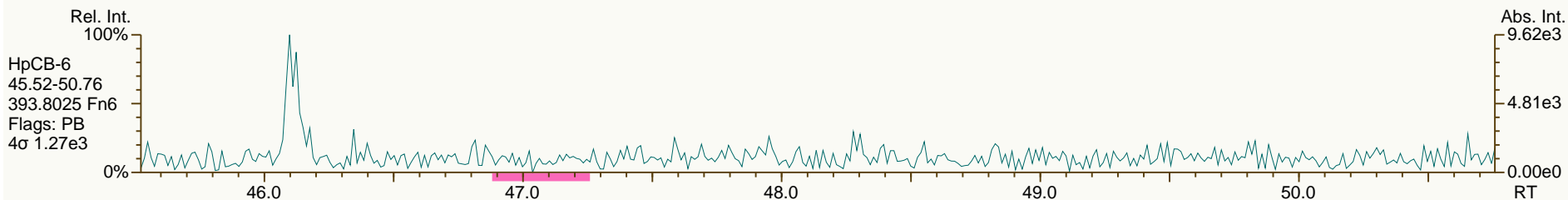
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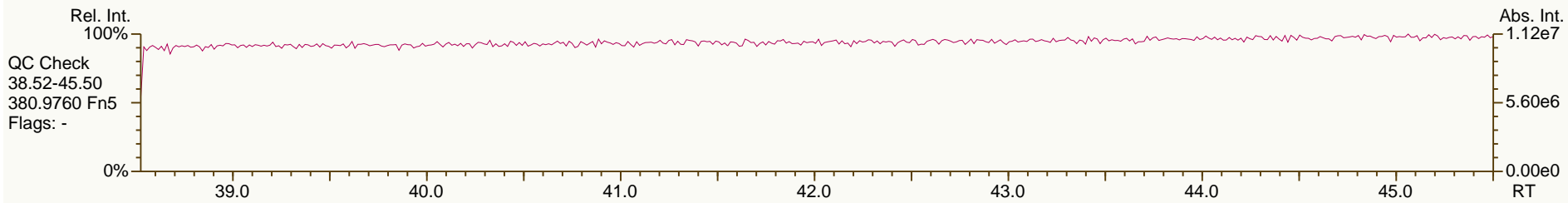
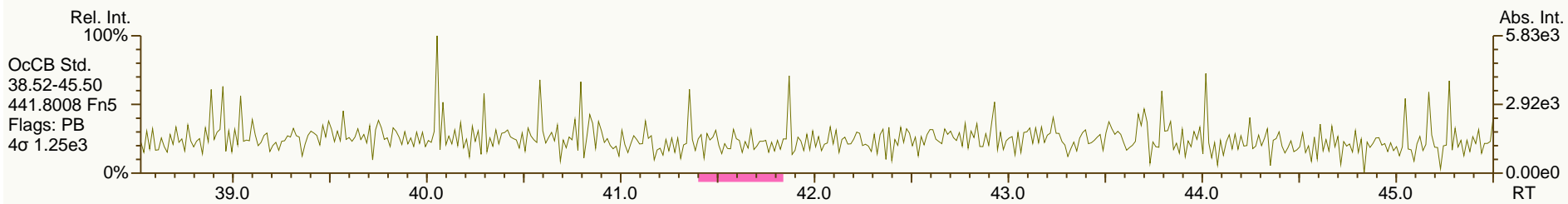
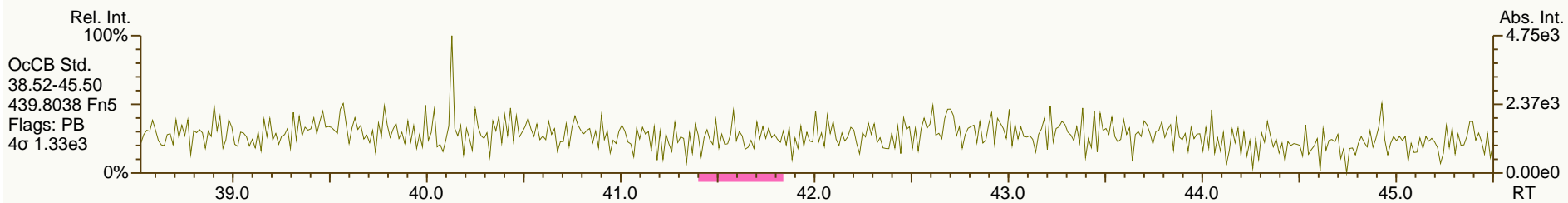
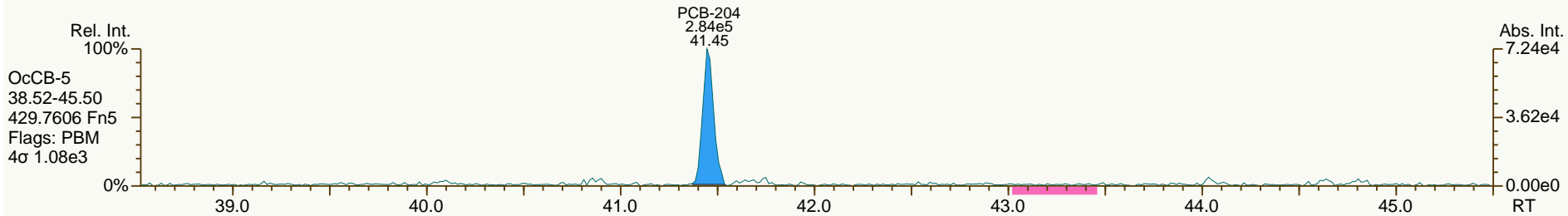
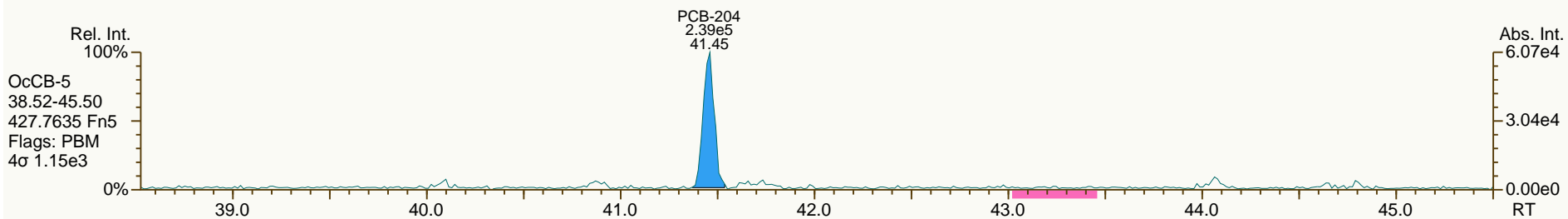
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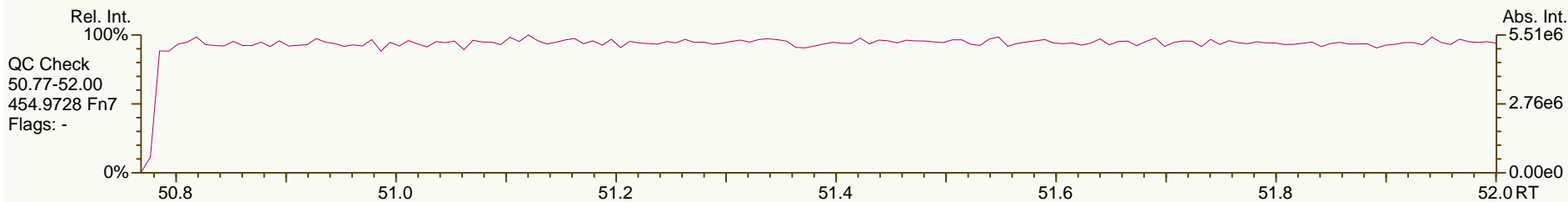
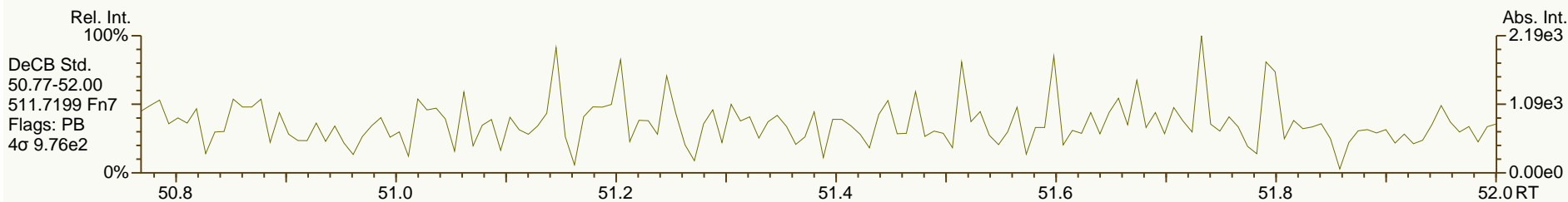
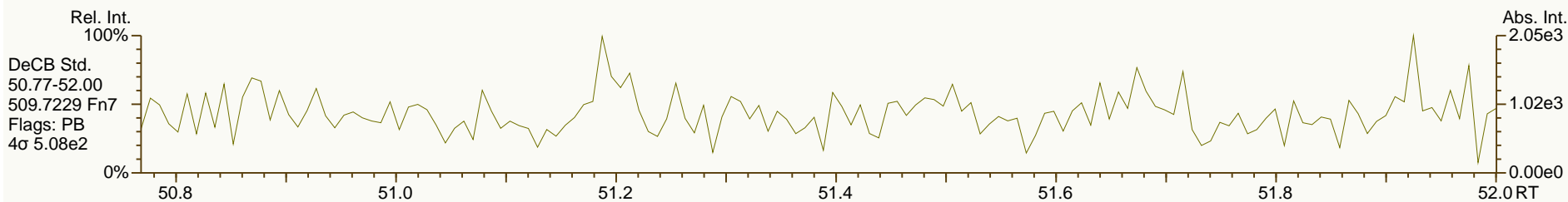
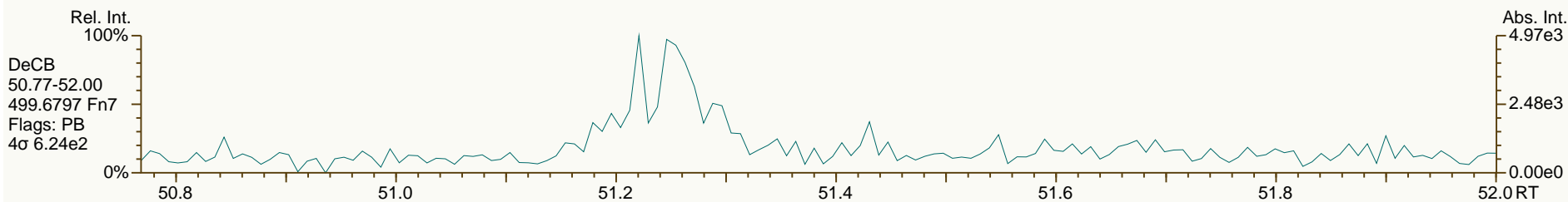
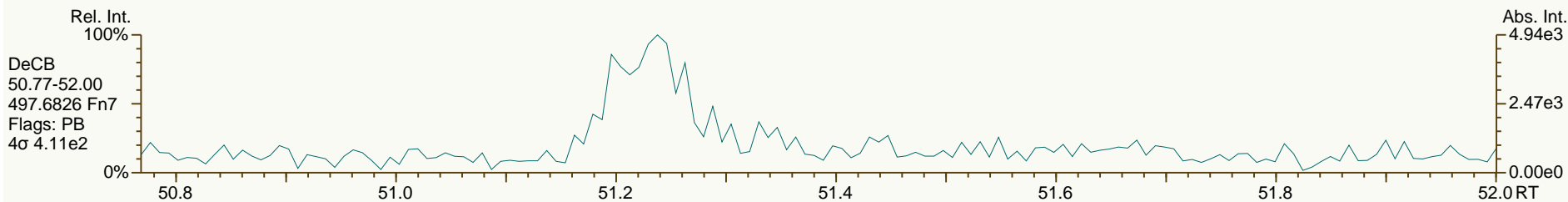
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Instr: AutoSpec-Premier MM7

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## Experiment Calibration Report

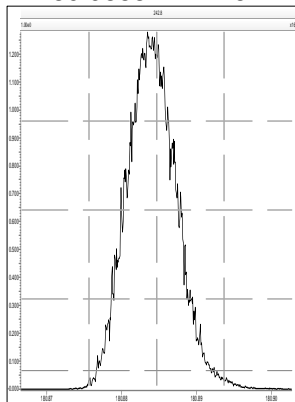
MassLynx 4.1 SCN 881

Page 1 of 1

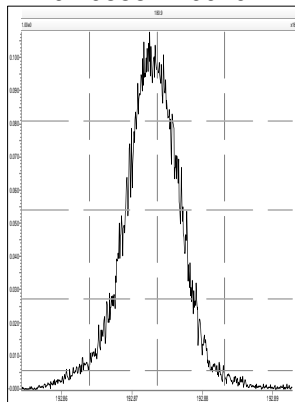
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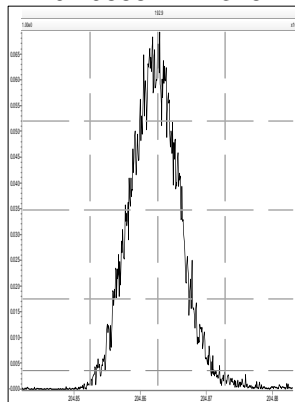
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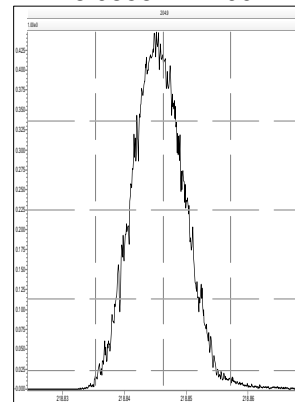
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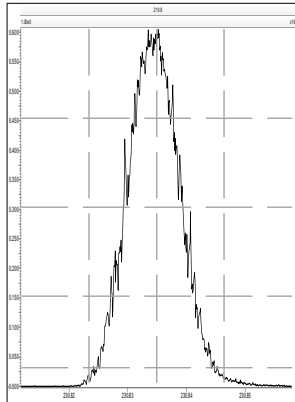
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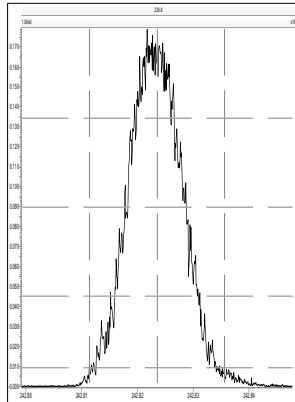
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M 242.9856 R 11311



## Experiment Calibration Report

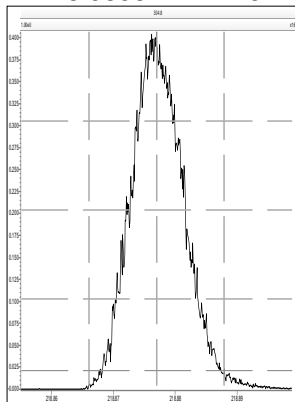
MassLynx 4.1 SCN 881

Page 1 of 1

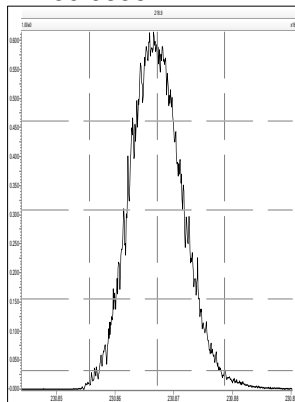
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Printed: Friday, December 20, 2013 14:52:25 Eastern Standard Time

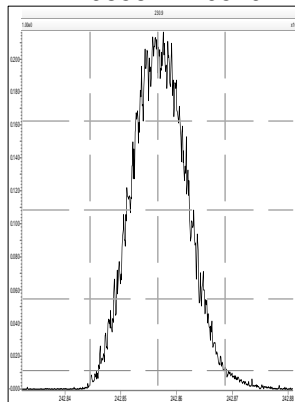
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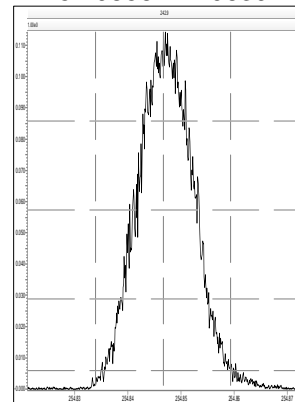
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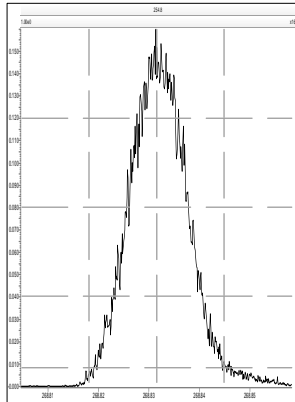
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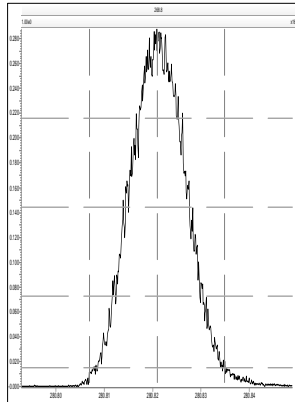
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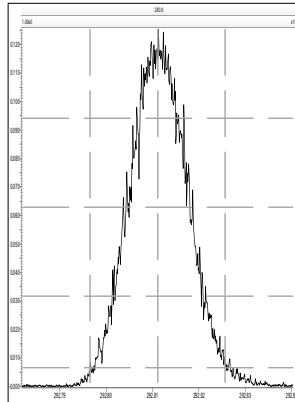
M 268.9824 R 10161



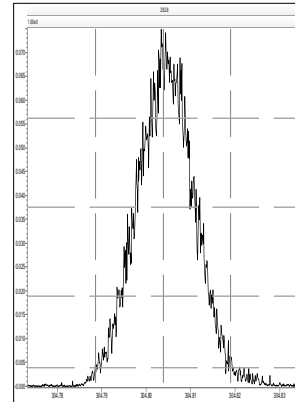
M 280.9824 R 10871



M 292.9824 R 10203



M 304.9824 R 10820



## Experiment Calibration Report

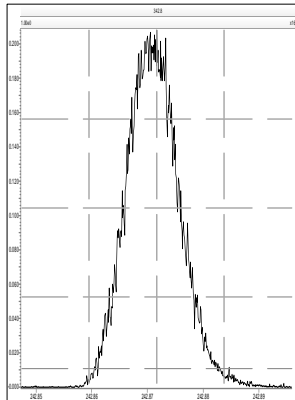
MassLynx 4.1 SCN 881

Page 1 of 1

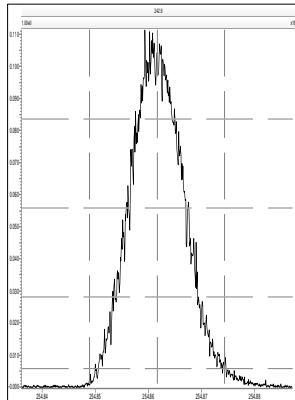
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Printed: Friday, December 20, 2013 14:52:57 Eastern Standard Time

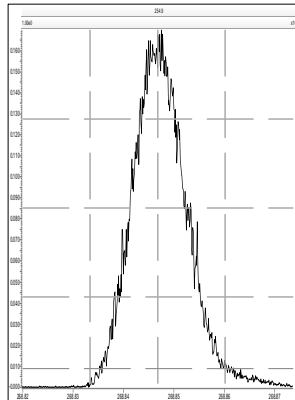
M 242.9856 R 11208



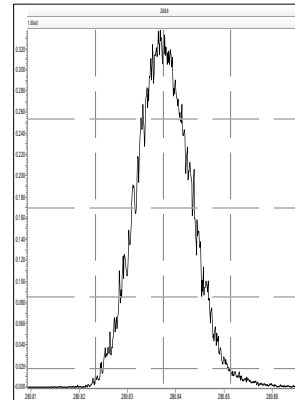
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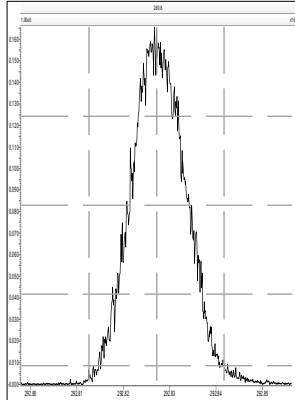
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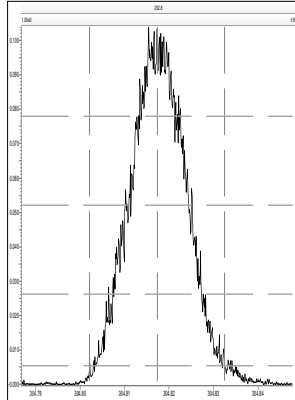
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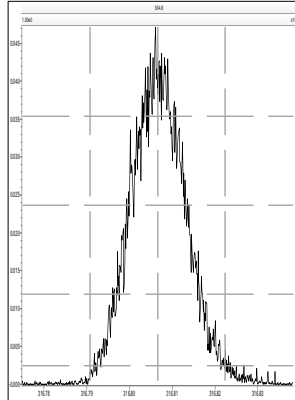
M 292.9824 R 11364



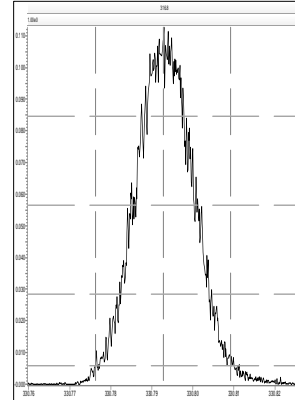
M 304.9824 R 10328



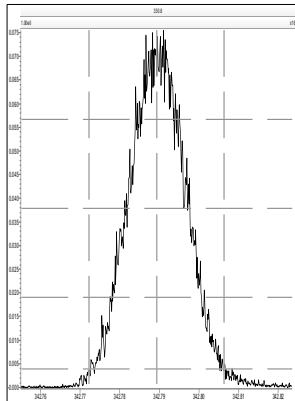
M 316.9824 R 10549



M 330.9792 R 9803



M 342.9792 R 10375



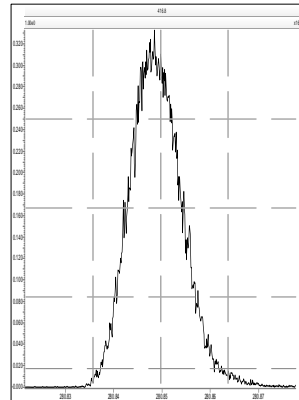
Experiment Calibration Report

MassLynx 4.1 SCN 881

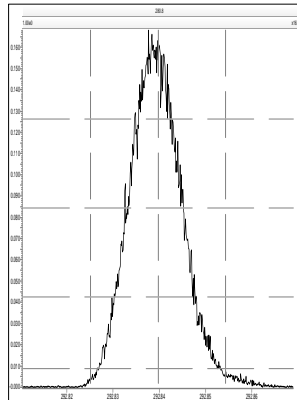
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Printed: Friday, December 20, 2013 14:53:27 Eastern Standard Time

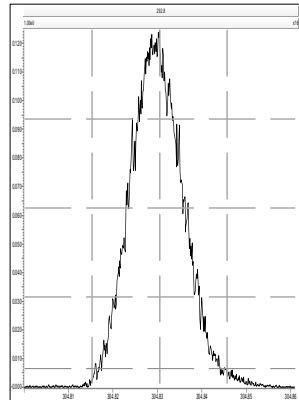
M 280.9824 R 11901



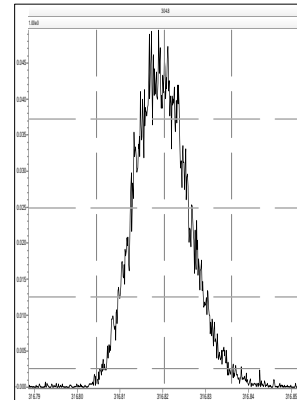
M 292.9824 R 10771



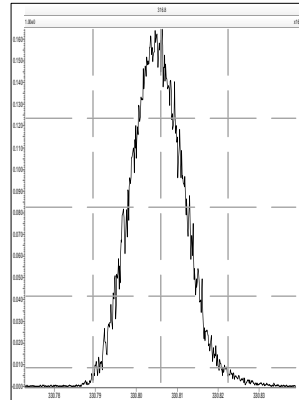
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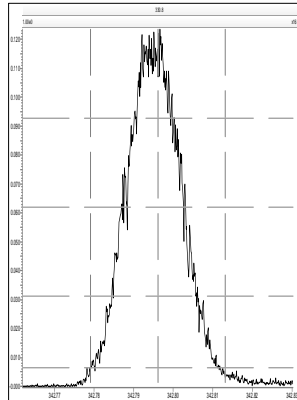
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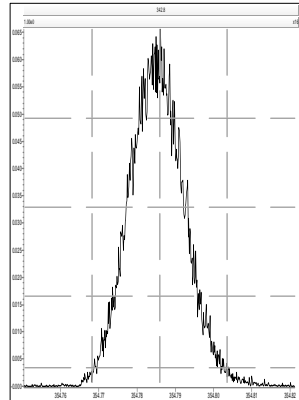
M 330.9792 R 11627



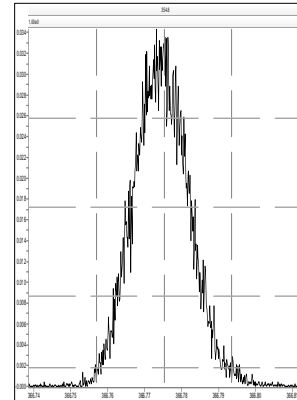
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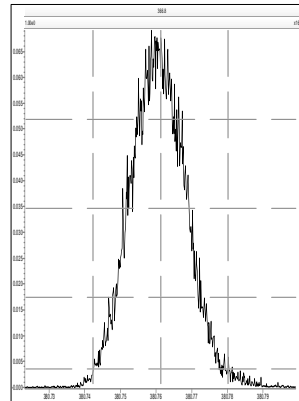
M 354.9792 R 10965



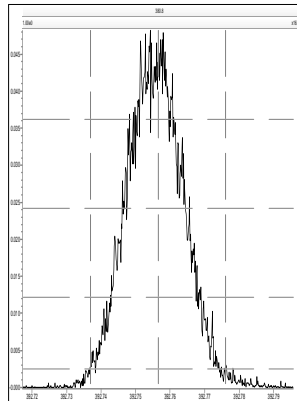
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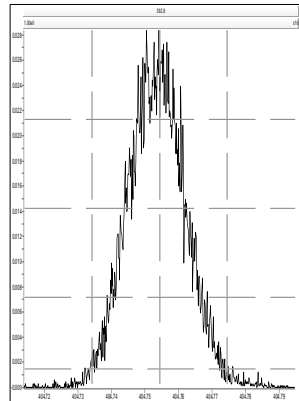
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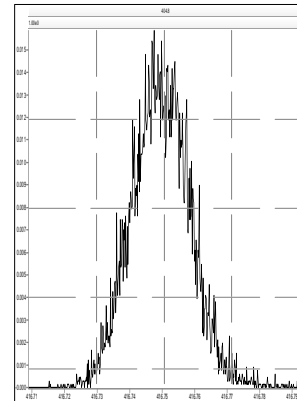
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M 404.9760 R 10290



M 416.9760 R 11464



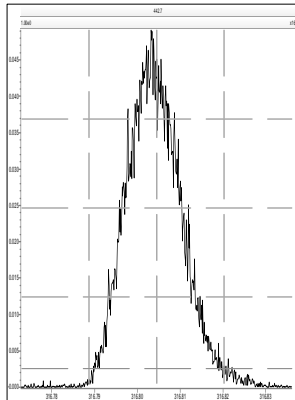
Experiment Calibration Report

MassLynx 4.1 SCN 881

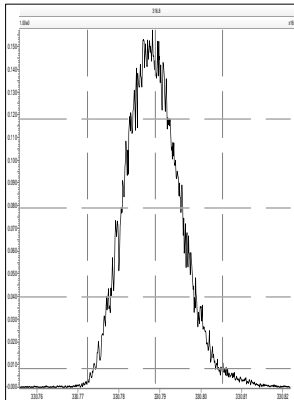
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Printed: Friday, December 20, 2013 14:54:02 Eastern Standard Time

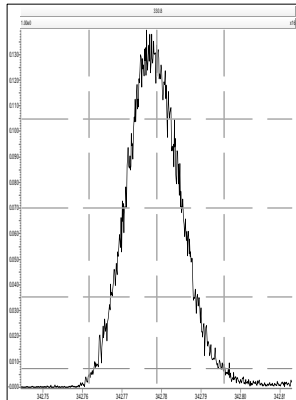
M 316.9824 R 10870



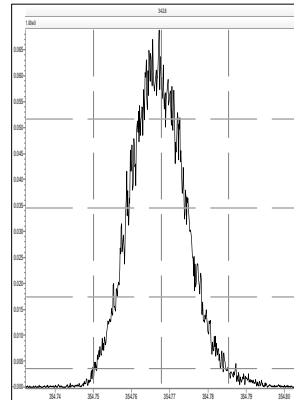
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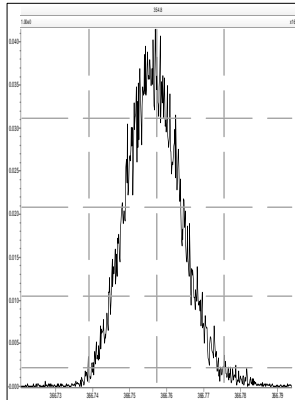
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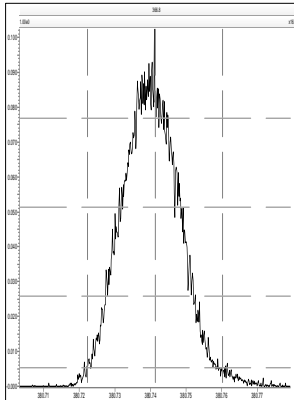
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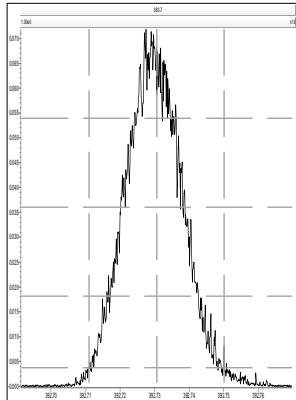
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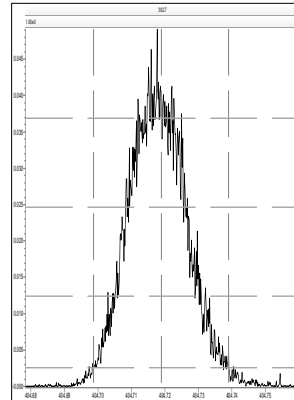
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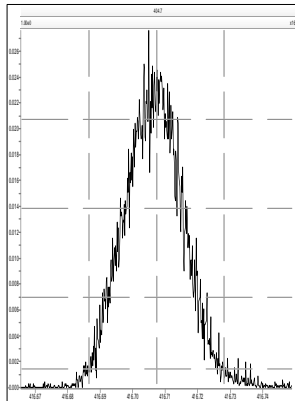
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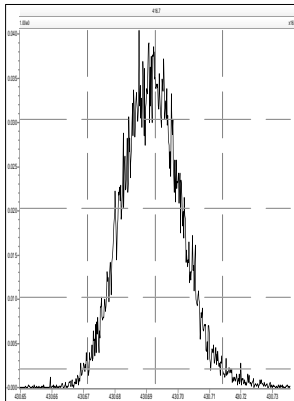
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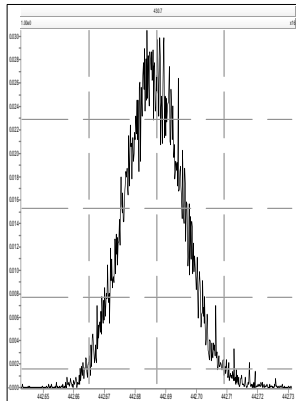
M 416.9760 R 10964



M 430.9728 R 10332



M 442.9728 R 10204



## Experiment Calibration Report

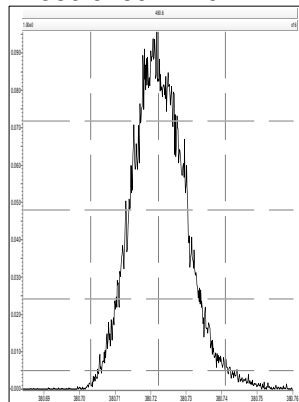
MassLynx 4.1 SCN 881

Page 1 of 1

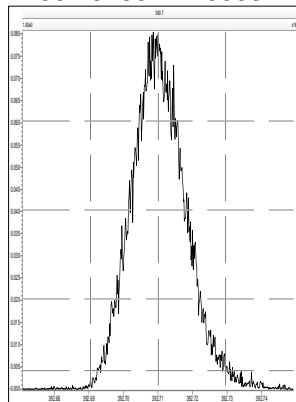
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Printed: Friday, December 20, 2013 14:55:29 Eastern Standard Time

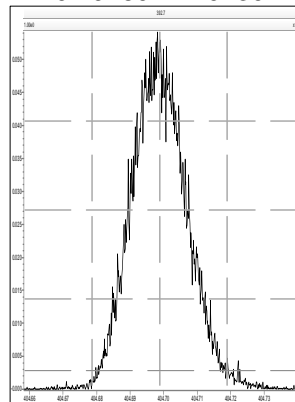
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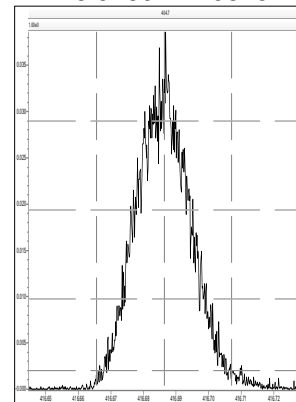
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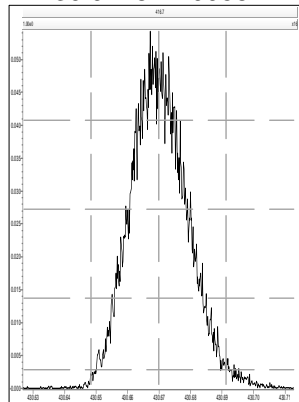
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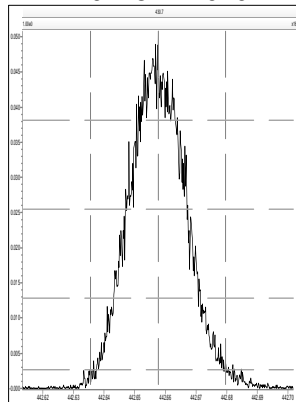
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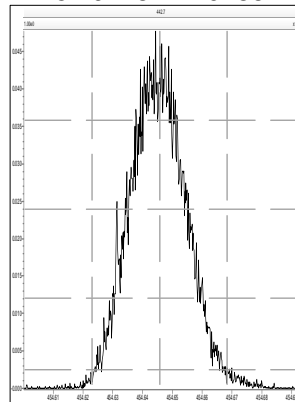
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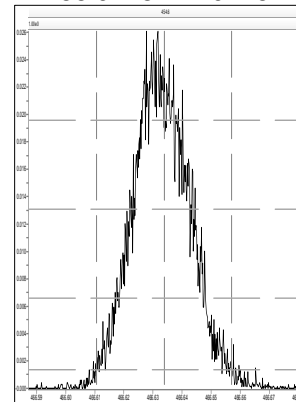
M 442.9728 R 10204



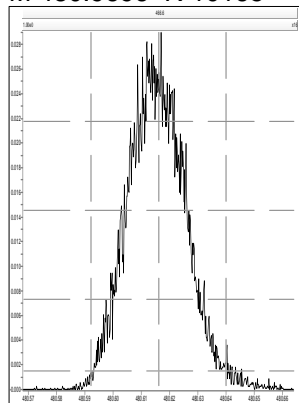
M 454.9728 R 10286



M 466.9728 R 10246



M 480.9696 R 10165



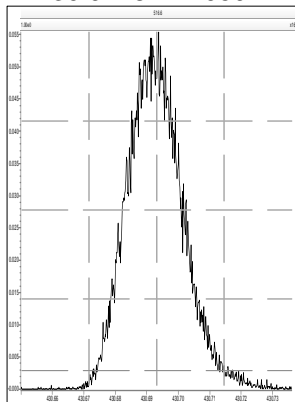
Experiment Calibration Report

MassLynx 4.1 SCN 881

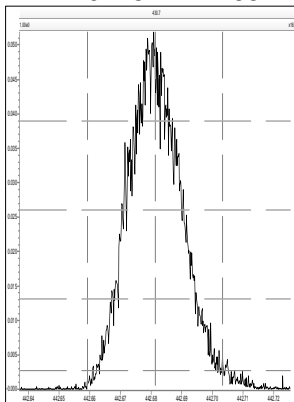
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Printed: Friday, December 20, 2013 14:56:11 Eastern Standard Time

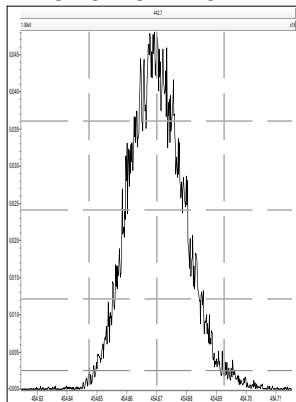
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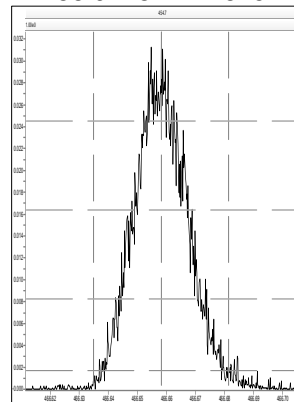
M 442.9728 R 11468



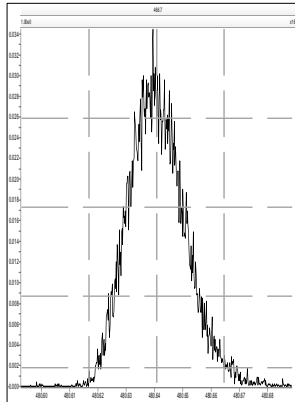
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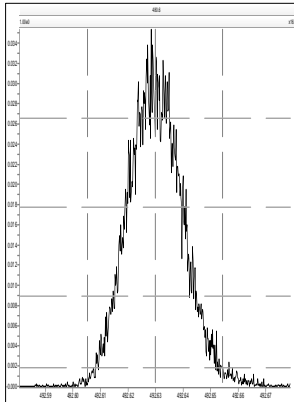
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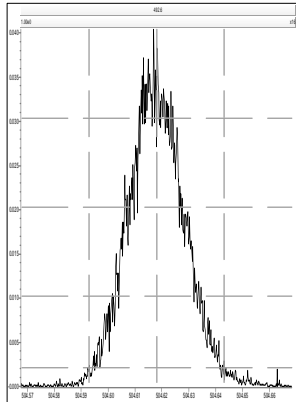
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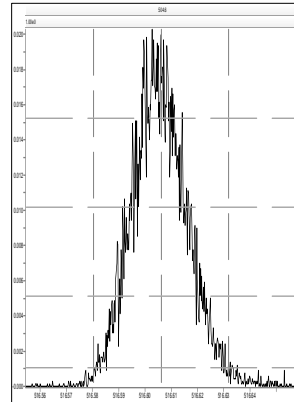
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M 504.9696 R 10504



M 516.9697 R 11012



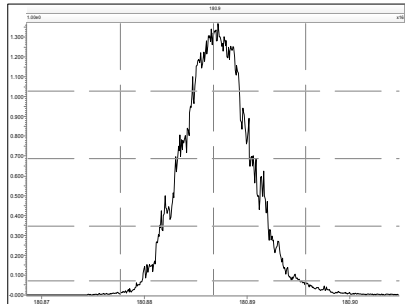
## Resolution Check Report

MassLynx 4.1 SCN 881

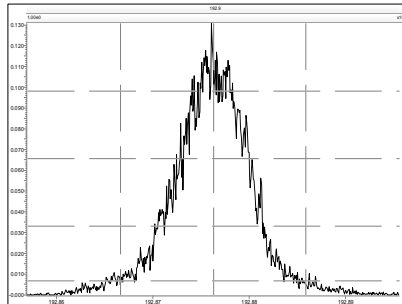
Page 1 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

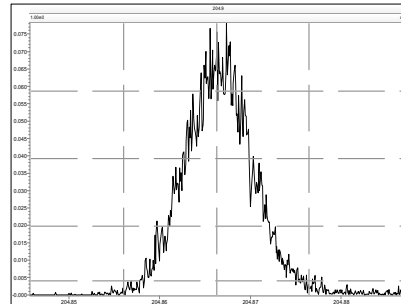
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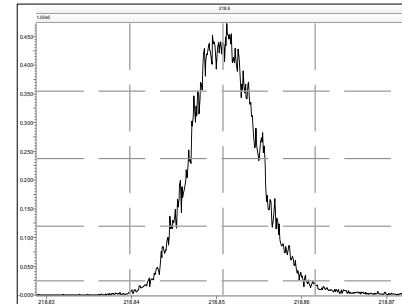
M 192.9888 R 10531



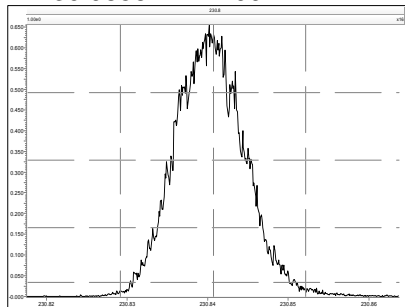
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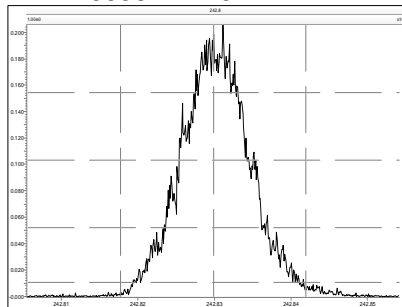
M 218.9856 R 12380



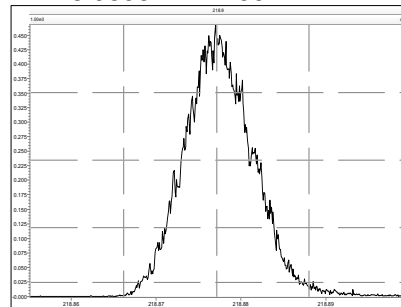
M 230.9856 R 11709



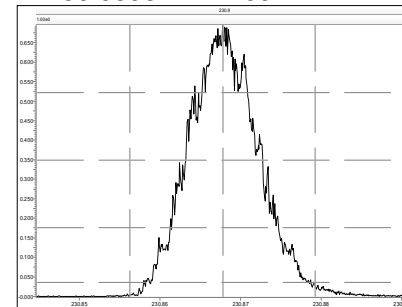
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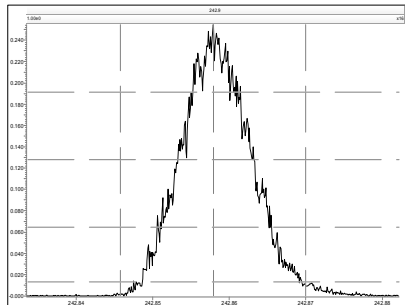
M 218.9856 R 11709



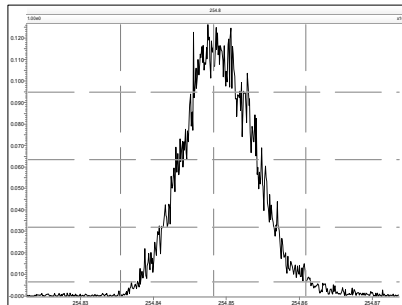
M 230.9856 R 11709



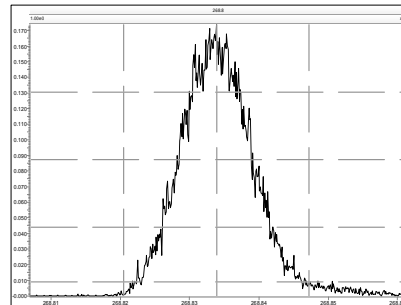
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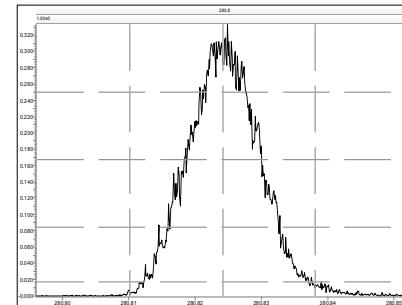
M 254.9856 R 11378



M 268.9824 R 11848



M 280.9824 R 11210





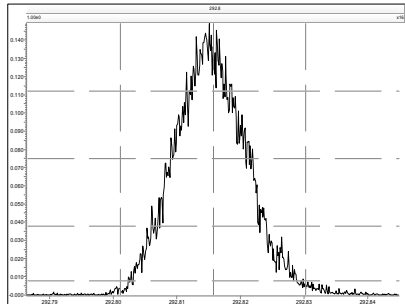
## Resolution Check Report

MassLynx 4.1 SCN 881

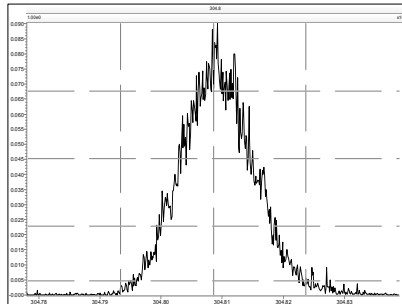
Page 2 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

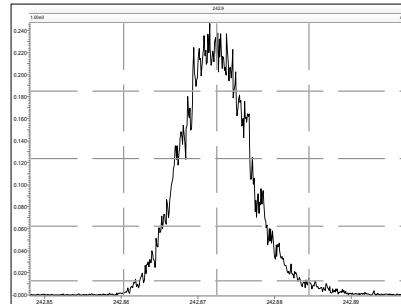
M 292.9824 R 11577



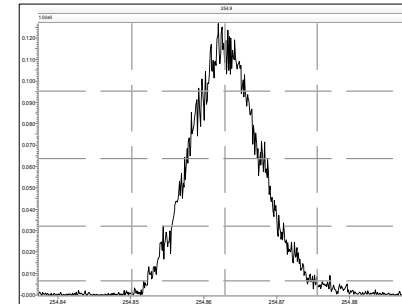
M 304.9824 R 11389



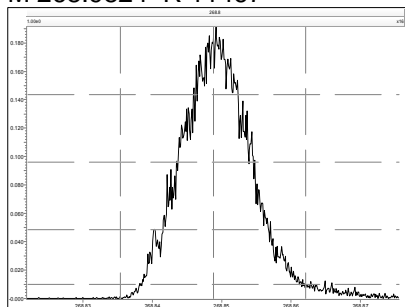
M 242.9856 R 11827



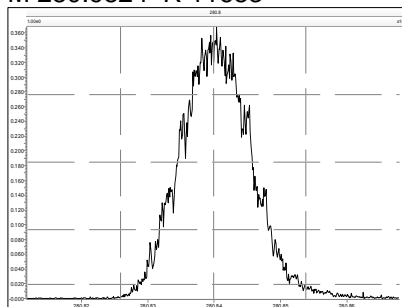
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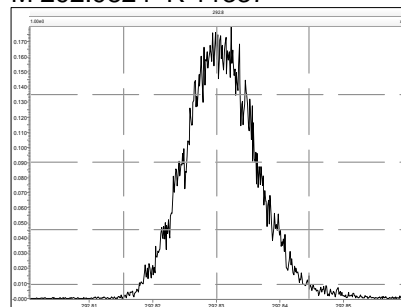
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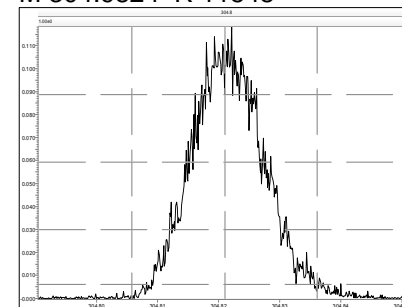
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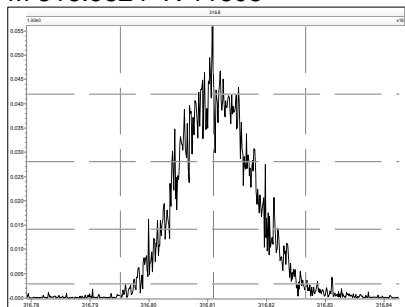
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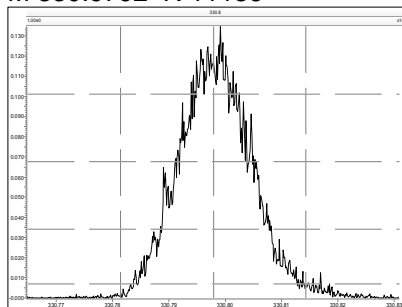
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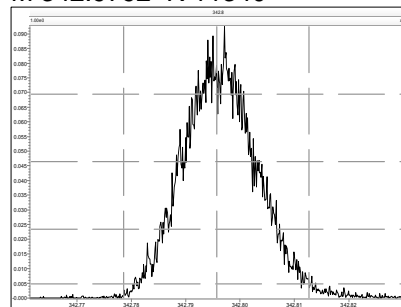
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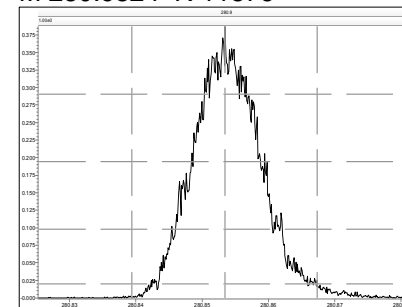
M 330.9792 R 11186



M 342.9792 R 11340



M 280.9824 R 11876

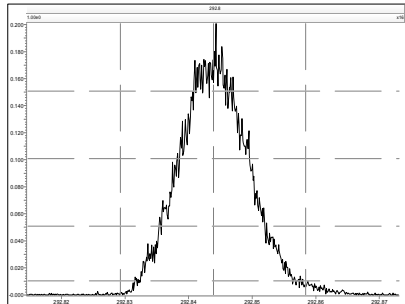


## Resolution Check Report

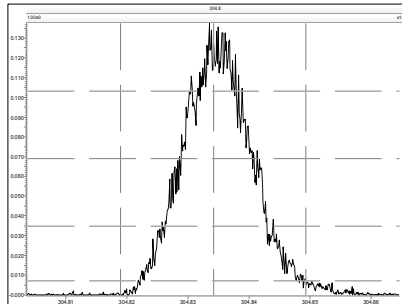
## MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

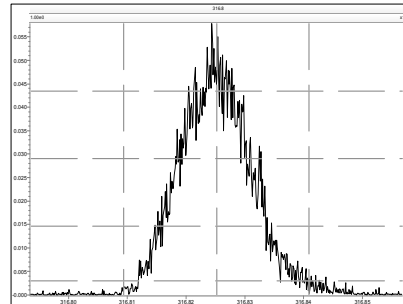
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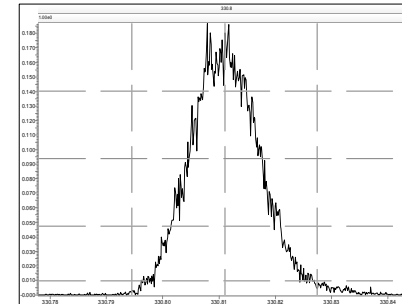
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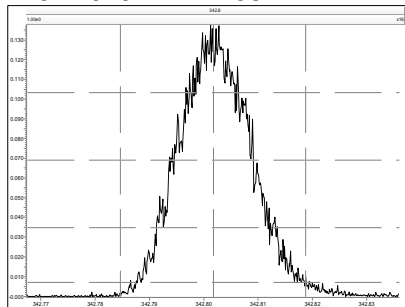
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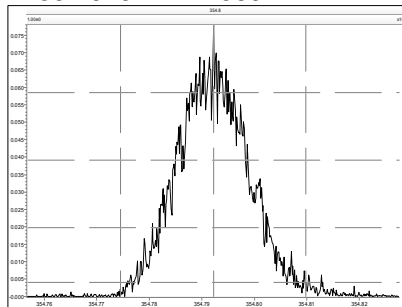
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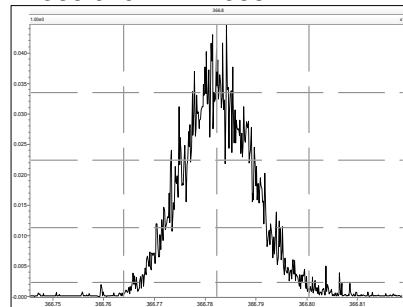
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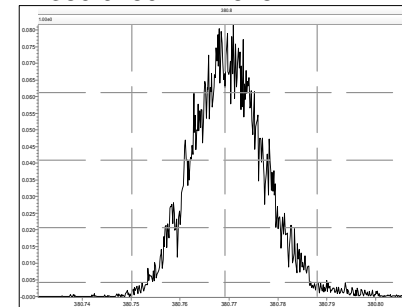
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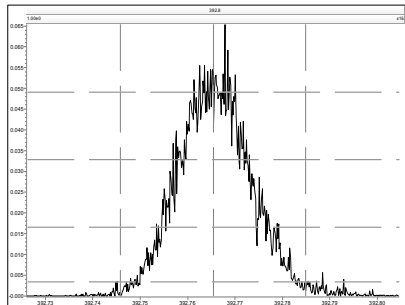
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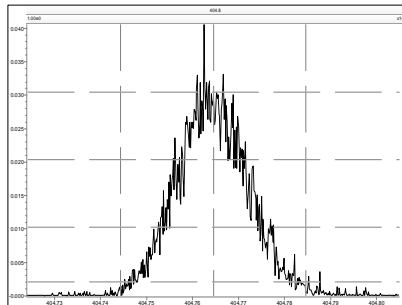
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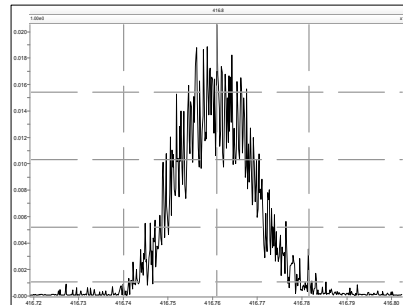
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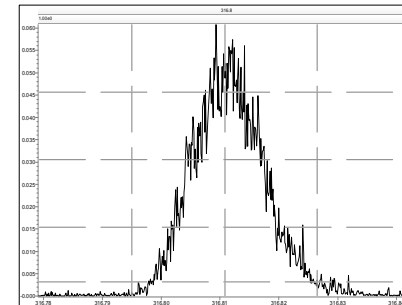
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M 416.9760 R 11574



M 316.9824 R 11467

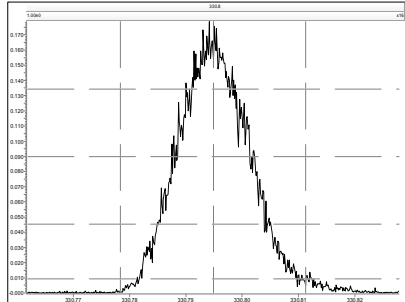


## Resolution Check Report

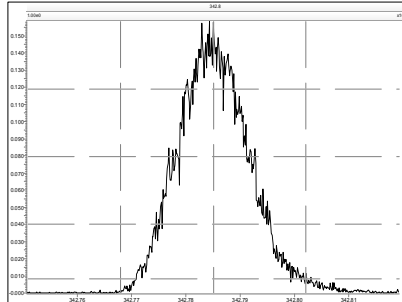
## MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

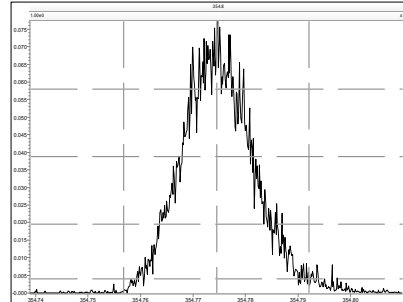
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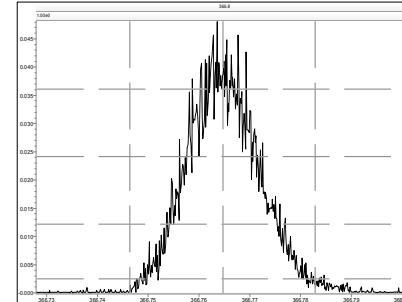
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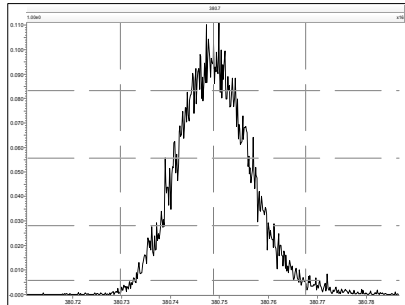
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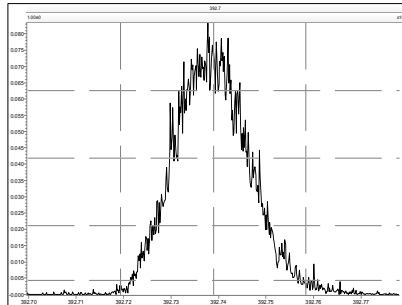
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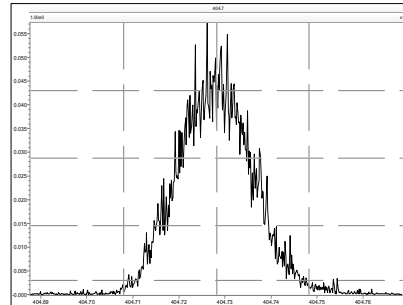
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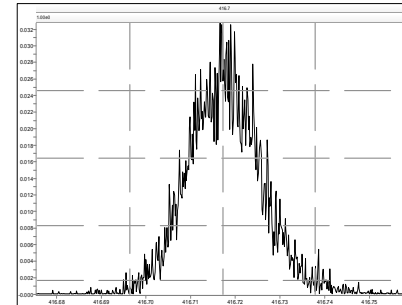
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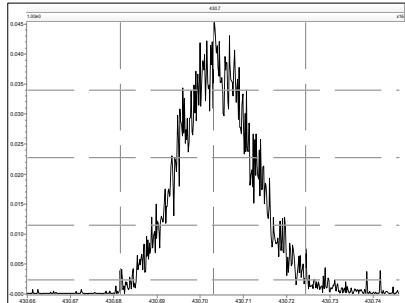
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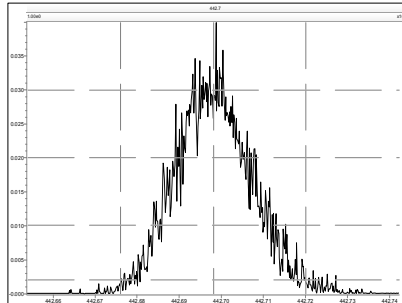
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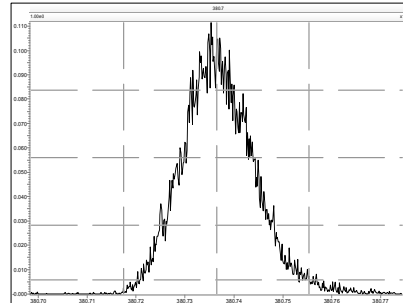
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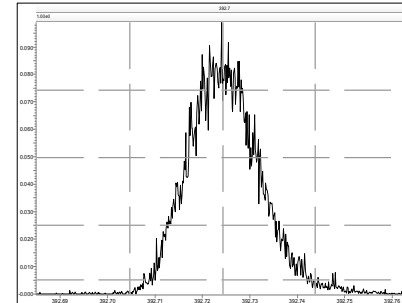
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M 380.9760 R 11522



M 392.9760 R 11852



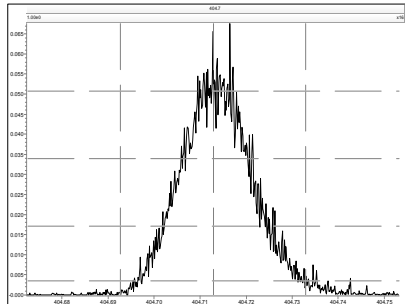
## Resolution Check Report

MassLynx 4.1 SCN 881

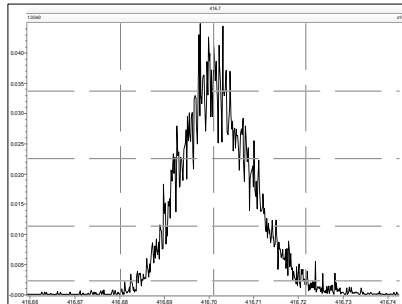
Page 5 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

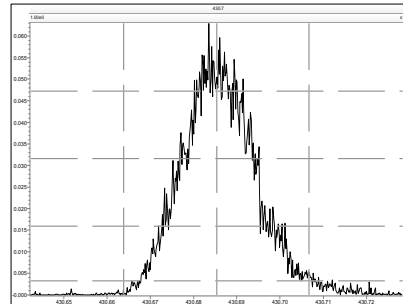
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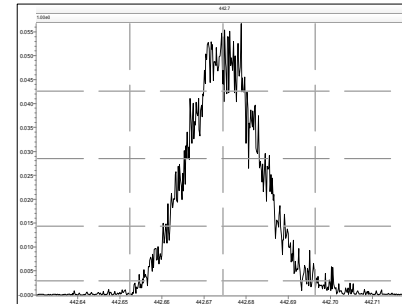
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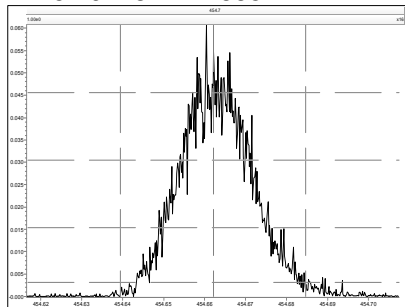
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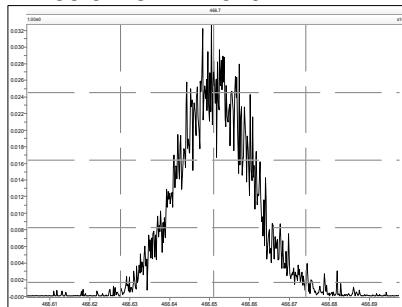
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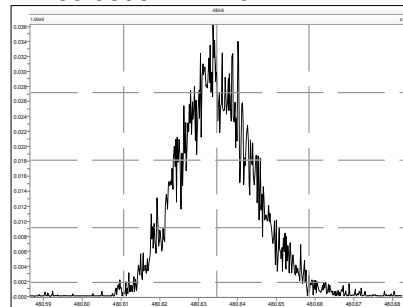
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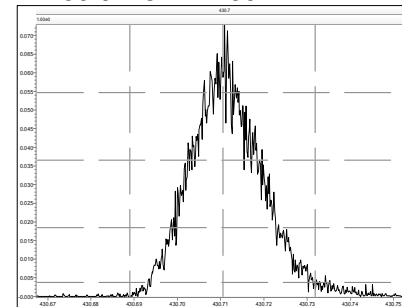
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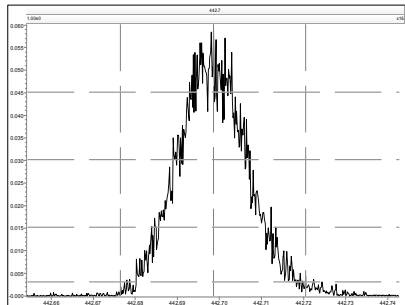
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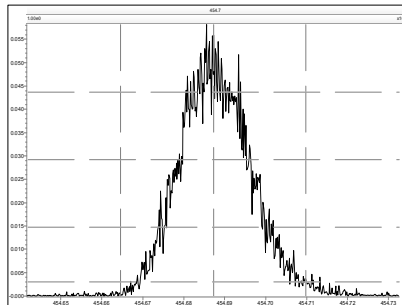
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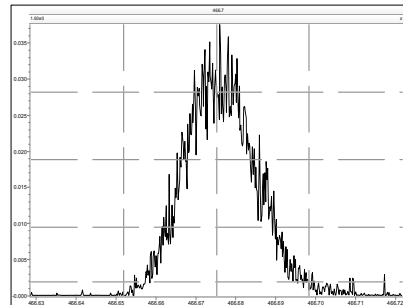
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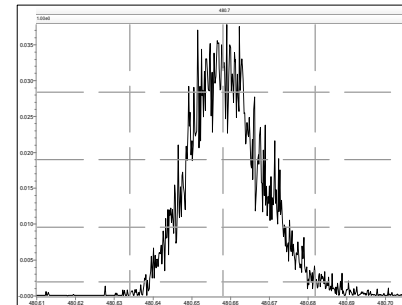
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M 466.9728 R 11628



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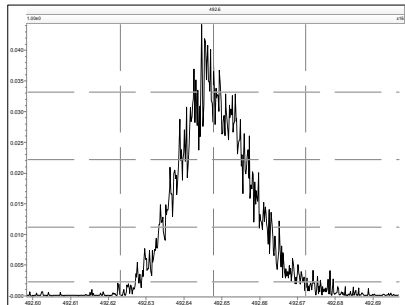
## Resolution Check Report

MassLynx 4.1 SCN 881

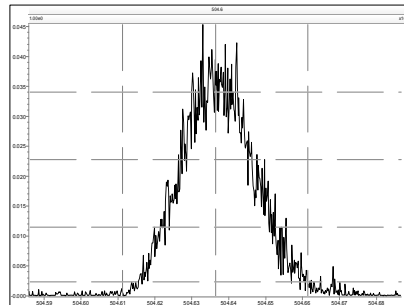
Page 6 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

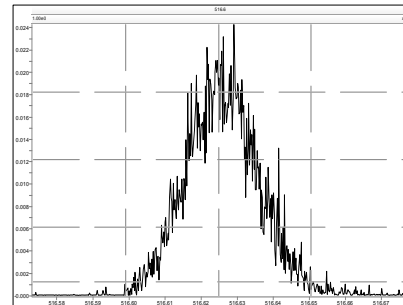
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M 504.9696 R 11467



M 516.9697 R 12194

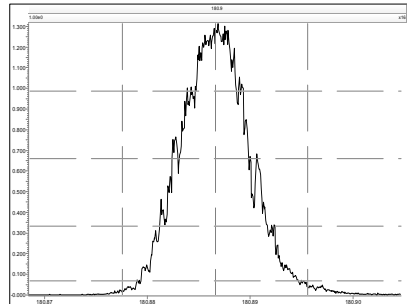


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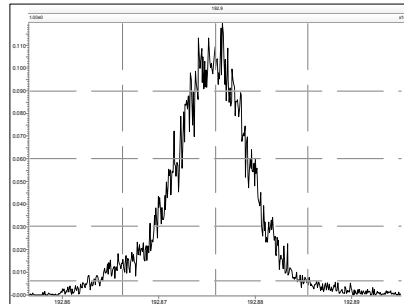
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Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

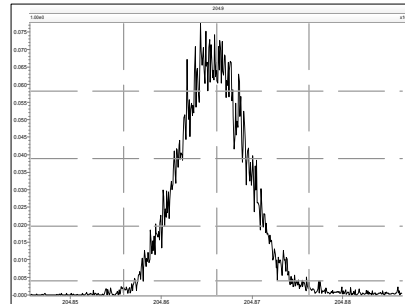
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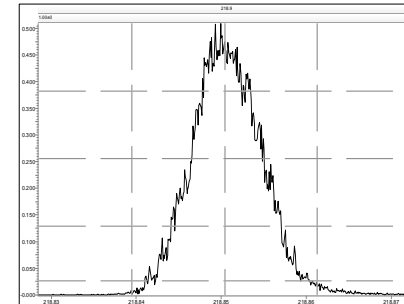
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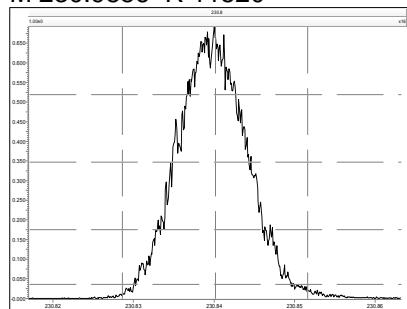
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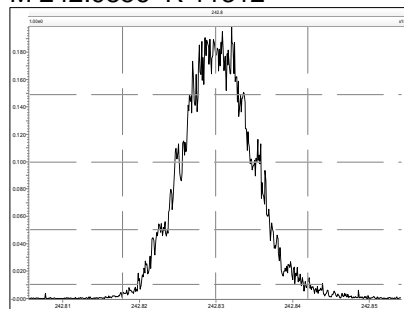
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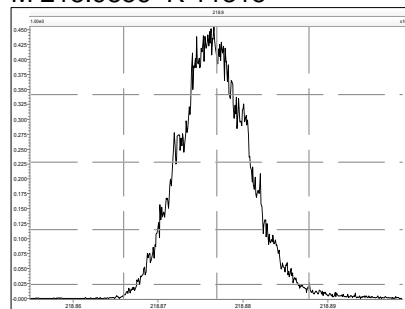
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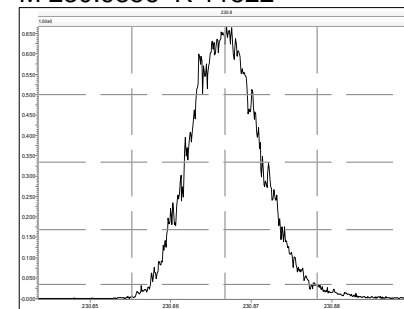
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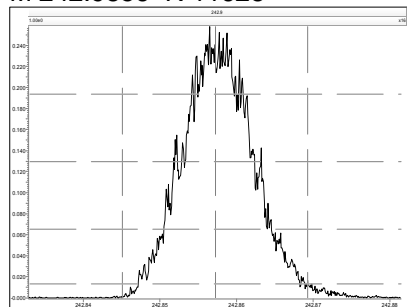
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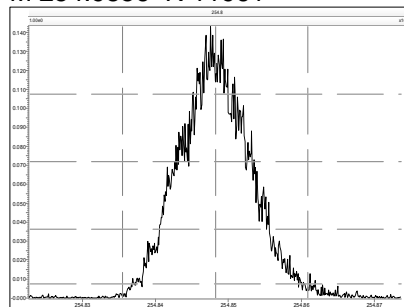
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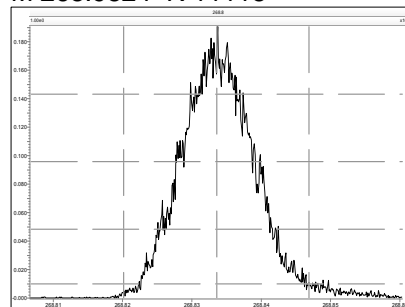
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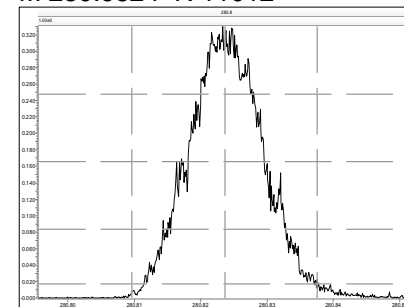
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M 268.9824 R 11118



M 280.9824 R 11012



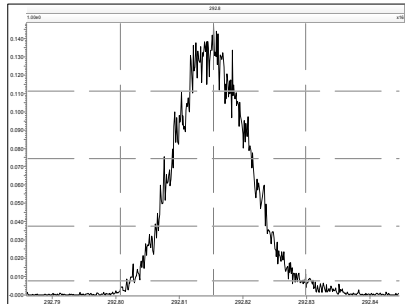
## Resolution Check Report

MassLynx 4.1 SCN 881

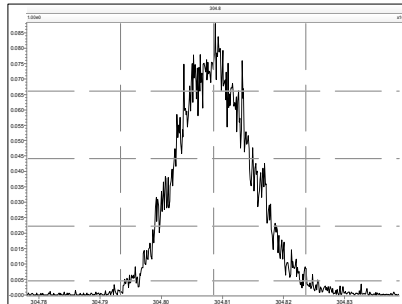
Page 2 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

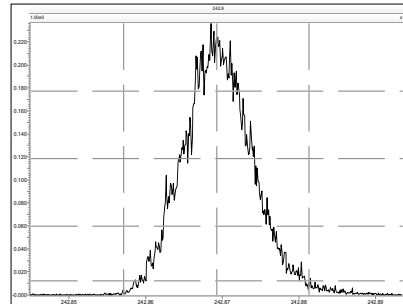
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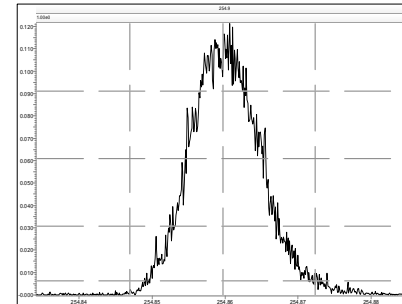
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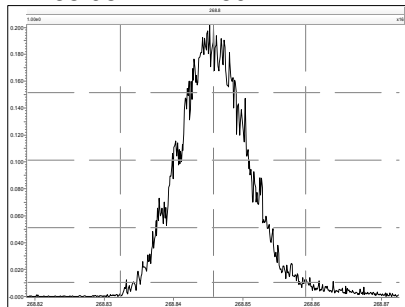
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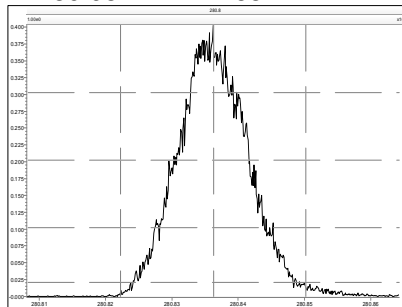
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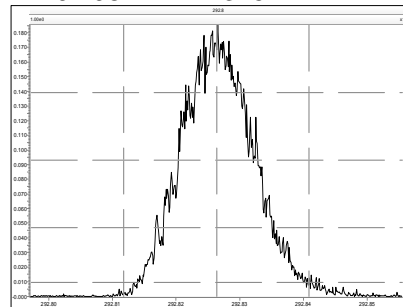
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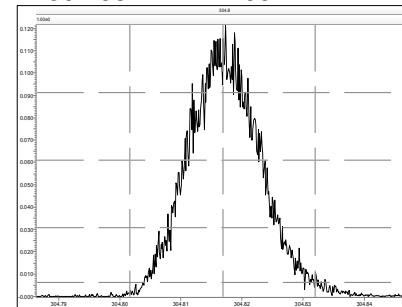
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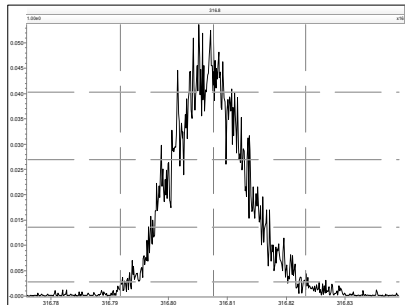
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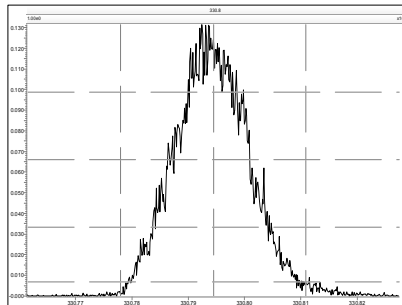
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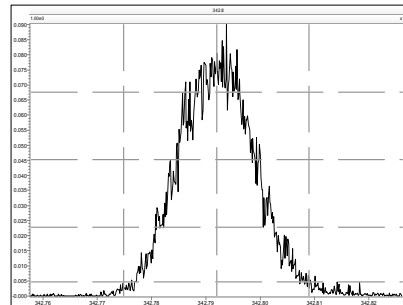
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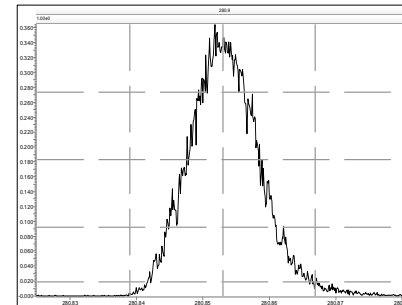
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M 342.9792 R 10706



M 280.9824 R 11548

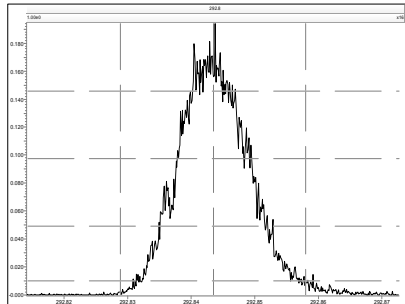


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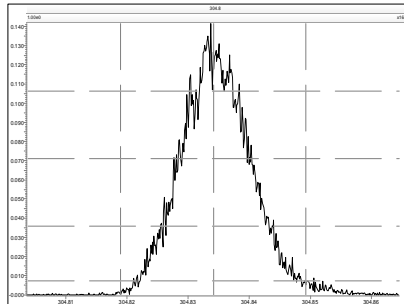
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

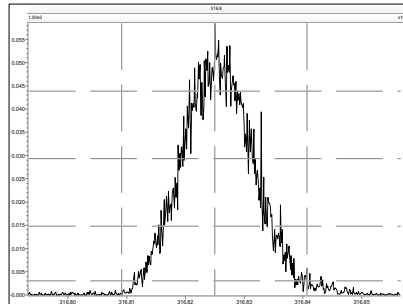
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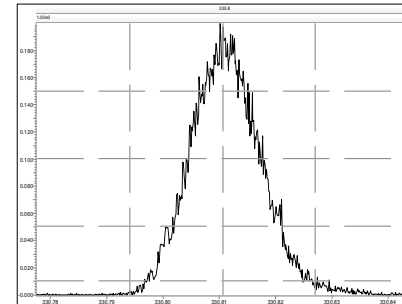
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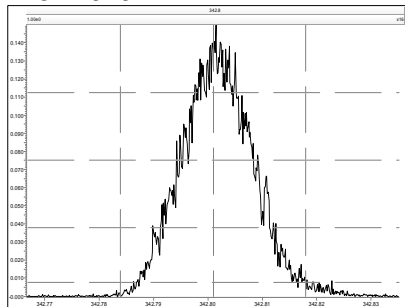
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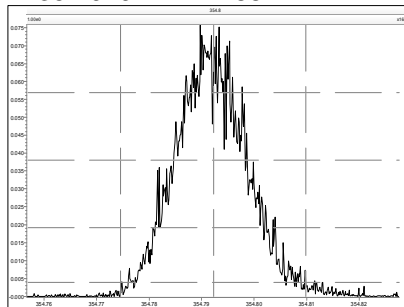
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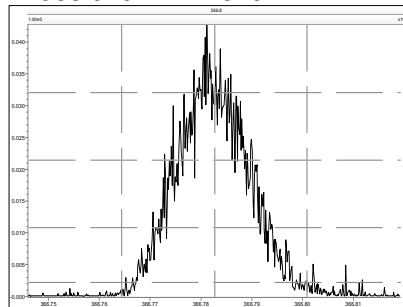
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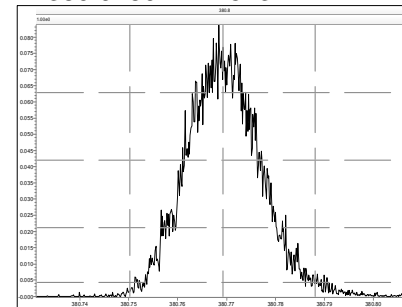
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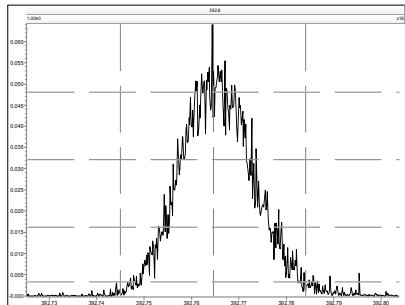
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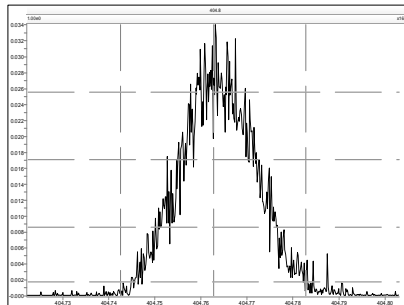
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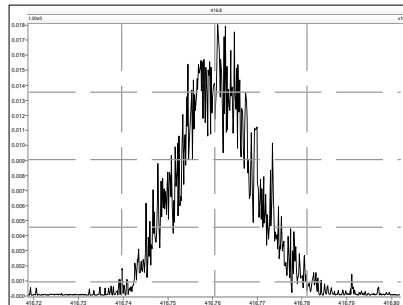
M 392.9760 R 11520



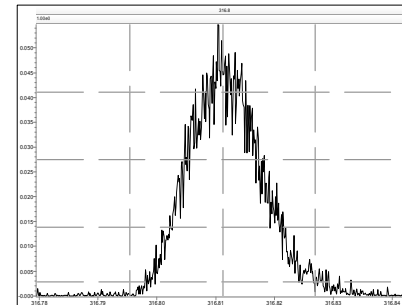
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M 416.9760 R 11908



M 316.9824 R 11415





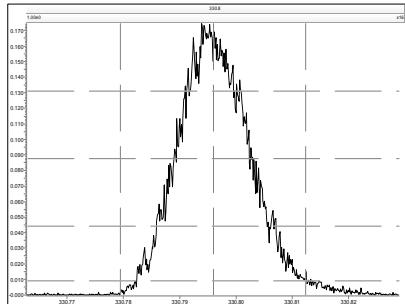
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MassLynx 4.1 SCN 881

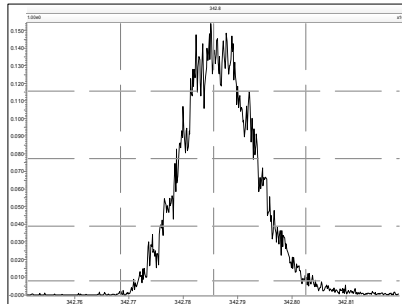
Page 4 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

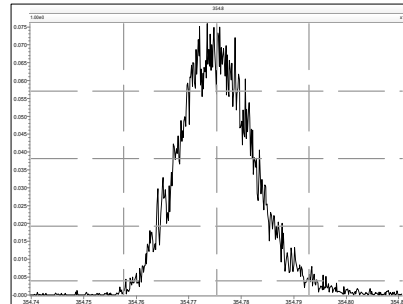
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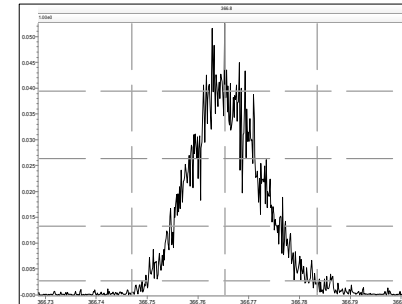
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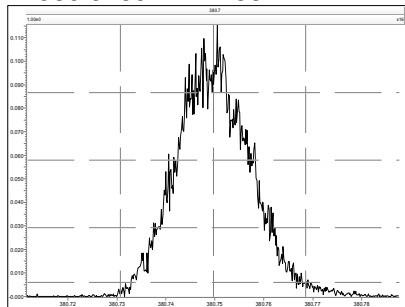
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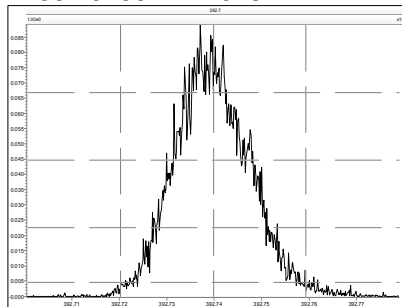
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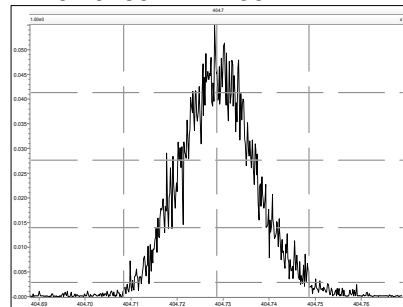
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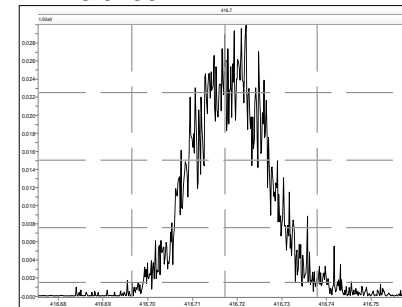
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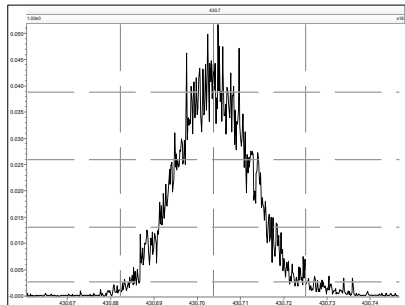
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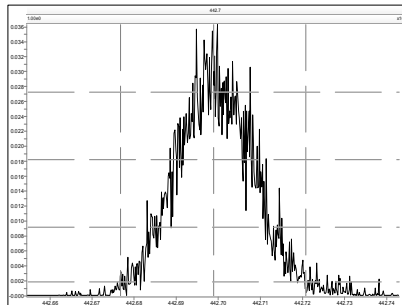
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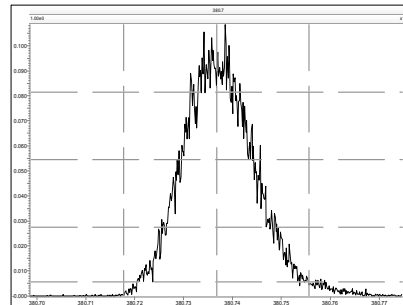
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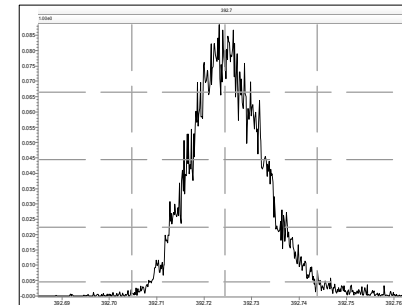
M 442.9728 R 11163



M 380.9760 R 11287



M 392.9760 R 11340



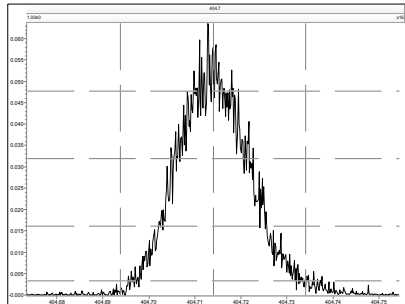
## Resolution Check Report

MassLynx 4.1 SCN 881

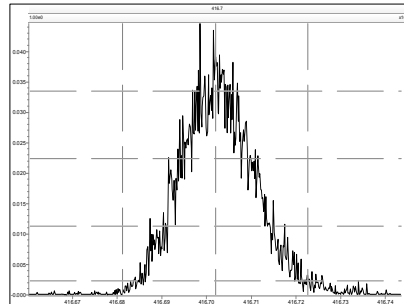
Page 5 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

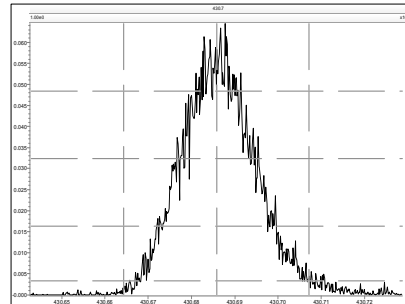
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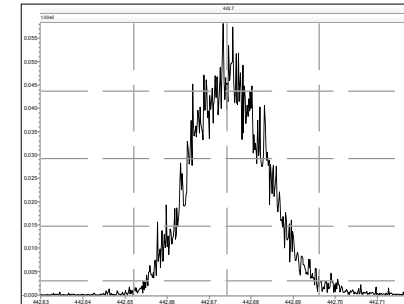
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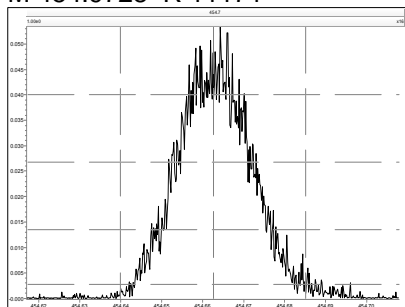
M 430.9728 R 11174



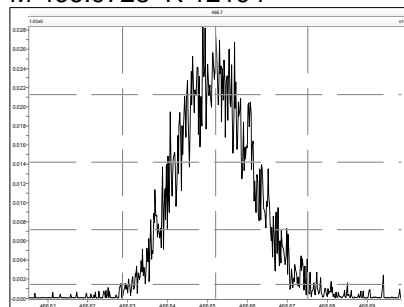
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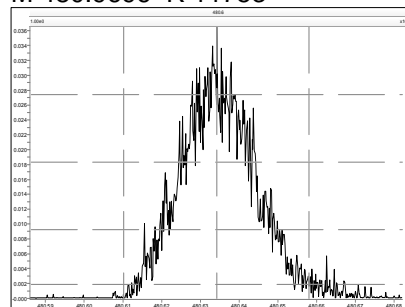
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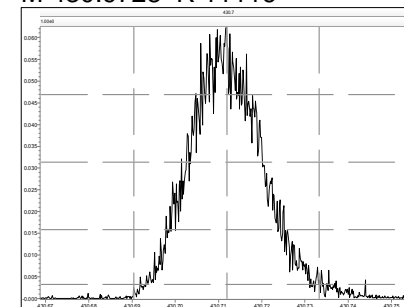
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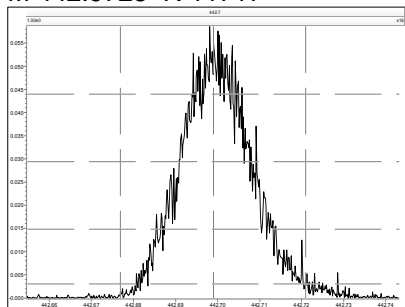
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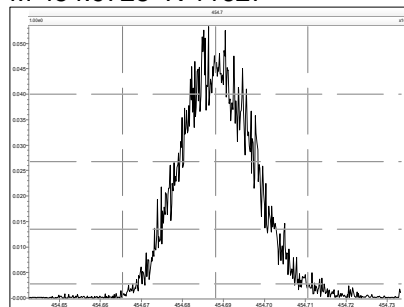
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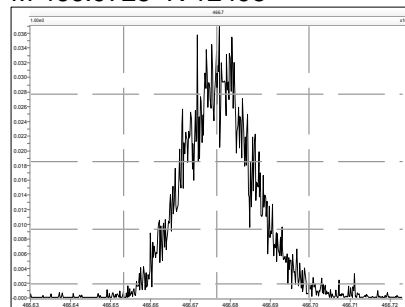
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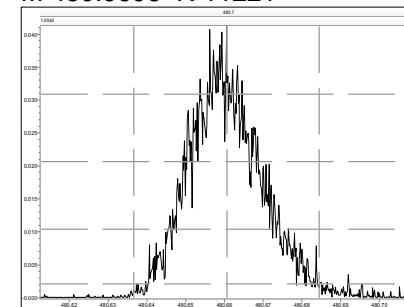
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M 466.9728 R 12498



M 480.9696 R 11221



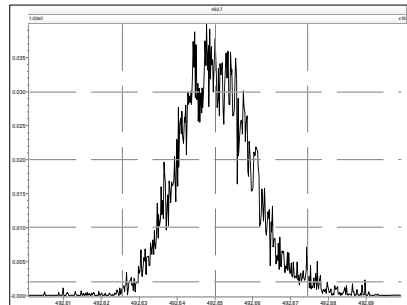
## Resolution Check Report

MassLynx 4.1 SCN 881

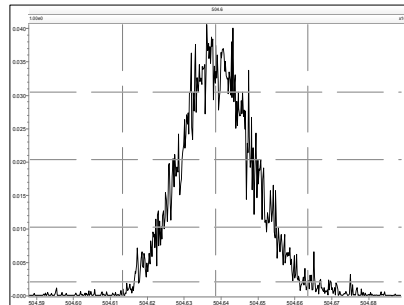
Page 6 of 6

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

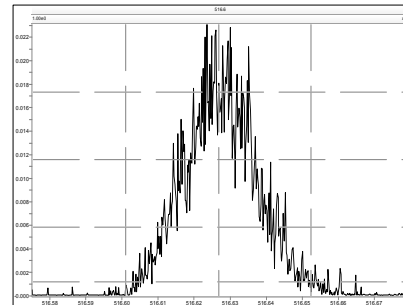
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M 504.9696 R 11338



M 516.9697 R 11848



Lab ID: OPR1\_11903\_PCB-RJ2

ACQ: 28-Mar-2014 17:55:43 LKB

Wt/Vol: 1.00 L

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UTP: 30-Mar-2014 13:41 DES

J-level: 10 pg/uL Split: 1

Checkcode: 662-053-GHH

Datafile: 140328X08

RPT: 04-Apr-2014 09:49 ds

Std (pg): JS: 100 ES: 100 CS/SS: 100

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.77		1.0006	1.0006	0	6.34E+07	0.80	1.15	50.8	1.19E+04	0.101
PCB-81 344'5'-TeCB	32.29		1.0005	1.0005	0	6.21E+07	0.80	1.12	52.4	1.19E+04	0.104
PCB-105 233'44'-PeCB	35.76		1.0006	1.0007	+0.2	5.04E+07	0.62	1.11	48.8	4.97E+03	0.0499
PCB-114 2344'5'-PeCB	35.21		1.0007	1.0007	0	5.47E+07	0.62	1.20	49.6	4.97E+03	0.0474
PCB-118 23'44'5'-PeCB	34.75		1.0006	1.0006	0	5.19E+07	0.62	1.19	48.8	4.97E+03	0.0489
PCB-123 23'44'5'-PeCB	34.47		1.0006	1.0007	+0.2	5.33E+07	0.62	1.21	49.4	4.97E+03	0.0477
PCB-126 33'44'5'-PeCB	38.36		1.0005	1.0005	0	4.94E+07	0.64	1.11	52.6	5.75E+03	0.064
PCB-156/157 ...-HxCB	40.91	C	1.0005	1.0005	0	8.78E+07	1.21	1.10	98.9	8.30E+03	0.131
PCB-167 23'44'55'-HxCB	39.93		1.0006	1.0006	0	4.79E+07	1.21	1.16	48.7	8.30E+03	0.0876
PCB-169 33'44'55'-HxCB	43.62		1.0004	1.0004	0	4.58E+07	1.24	1.12	47.9	8.30E+03	0.0913
PCB-189 233'44'55'-HpCB	45.75		1.0004	1.0004	0	4.27E+07	1.07	1.07	51.1	4.48E+03	0.0562
PCB-209 DeCB	50.80		1.0004	1.0004	0	2.95E+07	1.18	1.11	48.5	1.44E+03	0.0272
ES PCB-1	11.87		0.7245	0.7246	+0.1	1.52E+08	3.26	1.19	86.7 %	15%	140%
ES PCB-3	14.15		0.8640	0.8640	0	1.42E+08	3.26	1.09	89.1 %	15%	140%
ES PCB-4	14.40		0.8795	0.8794	-0.1	8.42E+07	1.60	0.52	110 %	30%	140%
ES PCB-15	20.11		1.2271	1.2276	+0.6	1.64E+08	1.55	1.04	107 %	30%	140%
ES PCB-19	17.48		1.0673	1.0674	+0.1	8.05E+07	1.06	0.51	108 %	30%	140%
ES PCB-37	26.43		1.0787	1.0790	+0.5	1.25E+08	1.09	1.66	96 %	30%	140%
ES PCB-54	20.39		0.8328	0.8325	-0.4	8.04E+07	0.78	0.86	119 %	30%	140%
ES PCB-77	32.75		1.3364	1.3373	+1.8	1.08E+08	0.79	1.38	100 %	30%	140%
ES PCB-81	32.28		1.3170	1.3179	+1.7	1.06E+08	0.79	1.37	98.9 %	30%	140%
ES PCB-104	25.36		0.8325	0.8321	-0.6	7.32E+07	1.56	0.80	129 %	30%	140%
ES PCB-105	35.73		1.1720	1.1725	+1.1	9.28E+07	1.59	1.20	109 %	30%	140%
ES PCB-114	35.19		1.1543	1.1547	+0.8	9.16E+07	1.59	1.22	106 %	30%	140%
ES PCB-118	34.73		1.1391	1.1394	+0.6	8.93E+07	1.59	1.16	109 %	30%	140%
ES PCB-123	34.45		1.1299	1.1302	+0.6	8.90E+07	1.57	1.19	106 %	30%	140%
ES PCB-126	38.34		1.2575	1.2581	+1.4	8.49E+07	1.56	1.03	117 %	30%	140%
ES PCB-153	36.31		0.9716	0.9716	0	6.21E+07	1.29	1.11	98.4 %	30%	140%
ES PCB-155	30.31		0.8114	0.8110	-0.7	8.62E+07	1.27	1.59	97 %	30%	140%
ES PCB-156/157	40.89		1.0939	1.0941	+0.5	1.62E+08	1.25	1.60	90.4 %	30%	140%
ES PCB-167	39.91		1.0677	1.0678	+0.2	8.45E+07	1.26	1.67	90.6 %	30%	140%
ES PCB-169	43.60		1.1664	1.1667	+0.8	8.51E+07	1.27	1.56	97.7 %	30%	140%
ES PCB-170	43.12		0.9081	0.9079	-0.5	5.05E+07	1.07	0.95	100 %	30%	140%
ES PCB-180	42.05		0.8856	0.8855	-0.3	6.00E+07	1.07	1.14	102 %	30%	140%
ES PCB-188	35.18		0.7413	0.7409	-0.8	6.27E+07	1.08	0.94	119 %	30%	140%
ES PCB-189	45.73		0.9629	0.9629	0	7.78E+07	1.02	1.58	102 %	30%	140%
ES PCB-202	39.72		0.8366	0.8364	-0.5	6.04E+07	0.92	0.97	111 %	30%	140%
ES PCB-205	47.89		1.0084	1.0084	0	5.95E+07	0.88	1.24	99.2 %	30%	140%
ES PCB-206	49.35		1.0392	1.0392	0	4.28E+07	0.80	0.83	107 %	30%	140%
ES PCB-208	45.34		0.9549	0.9548	-0.3	6.29E+07	0.79	1.17	111 %	30%	140%
ES PCB-209	50.78		1.0694	1.0693	-0.3	5.46E+07	1.17	1.11	102 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.87		0.9339	0.9338	-0.1	1.43E+08	1.07	1.11	103 %	40%	125%
SS PCB-111	32.77		1.0750	1.0752	+0.4	9.69E+07	1.57	1.03	106 %	40%	125%
SS PCB-178	37.75		1.0100	1.0100	0	4.21E+07	1.08	0.62	108 %	40%	125%
CS PCB-28	22.87		0.9339	0.9338	-0.1	1.43E+08	1.07	1.85	98.8 %	40%	125%
CS PCB-111	32.77		1.0750	1.0752	+0.4	9.69E+07	1.57	1.22	112 %	40%	125%
CS PCB-178	37.75	V	1.0100	1.0100	0	4.21E+07	1.08	0.58	129 %	40%	125%
JS PCB-9	16.38					1.47E+08	1.57				
JS PCB-52	24.49					7.83E+07	0.80				
JS PCB-101	30.48					7.09E+07	1.58				
JS PCB-138	37.37					5.59E+07	1.28				
JS PCB-194	47.49					4.82E+07	0.91				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			163		163		0.0282	
			Di-CBs			589		589		0.0381	
			Tri-CBs			1,180		1,180		0.0601	
			Tetra-CBs			2,030		2,030		0.0578	
			Penta-CBs			2,280		2,280		0.0457	
			Hexa-CBs			2,130		2,130		0.0824	
			Hepta-CBs			1,220		1,220		0.0976	
			Octa-CBs			619		619		0.0489	
			Nona-CBs			151		151		0.091	
PCB-1 2-MoCB	11.88		1.0011	1.0011	0	8.13E+07	3.17	0.95	56.1	5.89E+03	0.0252
PCB-2 3-MoCB	13.98		0.9880	0.9881	+0.1	8.39E+07	3.23	1.17	50.6	5.89E+03	0.0271
PCB-3 4-MoCB	14.16		1.0010	1.0010	0	8.13E+07	3.24	1.01	56.6	5.89E+03	0.0312
PCB-4 22'-DiCB	14.42		1.0011	1.0011	0	4.88E+07	1.58	1.23	47	5.73E+03	0.0405
PCB-10 26'-DiCB	14.60		1.0135	1.0135	0	7.96E+07	1.58	1.92	49.1	5.73E+03	0.026
PCB-9 25'-DiCB	16.39		1.0010	1.0010	0	7.65E+07	1.64	0.97	48.3	6.59E+03	0.0377
PCB-7 24'-DiCB	16.56		1.0111	1.0112	+0.1	8.69E+07	1.63	1.10	48.3	6.59E+03	0.0332
PCB-6 23'-DiCB	16.79		1.0249	1.0249	0	8.18E+07	1.65	1.03	48.6	6.59E+03	0.0355
PCB-5 23'-DiCB	17.09		1.0433	1.0434	+0.1	8.23E+07	1.64	1.03	48.7	6.59E+03	0.0353
PCB-8 24'-DiCB	17.21		1.0506	1.0507	+0.1	8.34E+07	1.64	1.04	49.1	6.59E+03	0.0352
PCB-14 35'-DiCB	18.76		0.9334	0.9332	-0.2	9.88E+07	1.62	1.23	49	6.59E+03	0.0297
PCB-11 33'-DiCB	19.54	B	0.9721	0.9720	-0.1	8.66E+07	1.63	1.06	49.8	6.59E+03	0.0344
PCB-13/12 34'/34'-DiCB	19.84	C	0.9866	0.9866	0	1.72E+08	1.63	1.06	99.4	6.59E+03	0.0345
PCB-15 44'-DiCB	20.12		1.0008	1.0008	0	8.69E+07	1.64	1.02	52	6.59E+03	0.0358
PCB-19 22'6-TrCB	17.50		1.0010	1.0010	0	4.47E+07	1.04	1.15	48.4	5.93E+03	0.0539
PCB-30/18 246/22'5-TrCB	19.26	C	1.1014	1.1015	+0.1	1.24E+08	1.05	1.56	99	5.93E+03	0.0397
PCB-17 22'4-TrCB	19.66		1.1243	1.1245	+0.2	5.30E+07	1.04	1.33	49.5	5.93E+03	0.0465
PCB-27 23'6-TrCB	19.85		1.1353	1.1355	+0.2	7.25E+07	1.05	1.82	49.5	5.93E+03	0.034
PCB-24 236-TrCB	19.98		1.1430	1.1432	+0.2	6.91E+07	1.04	1.74	49.4	5.93E+03	0.0356
PCB-16 22'3-TrCB	20.08		1.1484	1.1486	+0.2	4.00E+07	1.05	0.99	50.3	5.93E+03	0.0625

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.56		1.1758	1.1761	+0.4	7.69E+07	1.04	1.93	49.4	5.93E+03	0.032
PCB-34 23'5'-TrCB	21.71		0.8218	0.8214	-0.5	7.50E+07	1.02	1.25	48.1	8.82E+03	0.0573
PCB-23 235-TrCB	21.86		0.8275	0.8271	-0.5	7.48E+07	1.01	1.27	47.4	8.82E+03	0.0566
PCB-26/29 23'5'/245-TrCB	22.14	C	0.8383	0.8379	-0.5	1.55E+08	1.01	1.28	96.6	8.82E+03	0.0559
PCB-25 23'4-TrCB	22.34		0.8456	0.8453	-0.4	7.69E+07	1.01	1.26	48.8	8.82E+03	0.0567
PCB-31 24'5-TrCB	22.62		0.8562	0.8559	-0.4	8.04E+07	1.01	1.34	47.9	8.82E+03	0.0533
PCB-28/20 244'/233'-TrCB	22.90	C	0.8670	0.8666	-0.5	1.51E+08	1.02	1.26	96.5	8.82E+03	0.057
PCB-21/33 234/23'4'-TrCB	23.08	C	0.8738	0.8735	-0.4	1.56E+08	1.01	1.28	97.4	8.82E+03	0.0558
PCB-22 234'-TrCB	23.46		0.8880	0.8877	-0.4	7.24E+07	1.00	1.20	48.3	8.82E+03	0.0596
PCB-36 33'5-TrCB	24.84		0.9401	0.9400	-0.1	7.96E+07	1.01	1.32	48.3	8.82E+03	0.0543
PCB-39 34'5-TrCB	25.16		0.9522	0.9521	-0.2	8.20E+07	1.01	1.36	48.4	8.82E+03	0.0527
PCB-38 345-TrCB	25.69		0.9723	0.9722	-0.2	7.58E+07	1.03	1.22	49.8	8.82E+03	0.0587
PCB-35 33'4-TrCB	26.08		0.9871	0.9871	0	7.26E+07	1.01	1.19	48.9	8.82E+03	0.0602
PCB-37 344'-TrCB	26.45		1.0007	1.0007	0	7.56E+07	1.00	1.08	56.1	8.82E+03	0.0664
PCB-54 22'66'-TeCB	20.41		1.0010	1.0010	0	5.11E+07	0.79	1.35	47	2.16E+03	0.0175
PCB-50/53 22'46/22'56'-TeCB	22.39	C	0.9145	0.9143	-0.3	9.32E+07	0.79	0.92	95.4	3.11E+03	0.0329
PCB-45 22'36-TeCB	22.98		0.9383	0.9383	0	4.13E+07	0.79	0.84	46.4	3.11E+03	0.0361
PCB-51 22'46'-TeCB	23.05		0.9413	0.9412	-0.1	4.69E+07	0.79	0.90	49.5	3.11E+03	0.0339
PCB-46 22'36'-TeCB	23.26		0.9499	0.9498	-0.1	3.80E+07	0.79	0.74	48.8	3.11E+03	0.0412
PCB-52 22'55'-TeCB	24.51	B	1.0009	1.0009	0	4.59E+07	0.79	0.90	48.2	3.11E+03	0.0338
PCB-73 23'5'6-TeCB	24.64		1.0062	1.0061	-0.1	6.03E+07	0.78	1.19	47.7	3.11E+03	0.0254
PCB-43 22'35-TeCB	24.74		1.0101	1.0100	-0.1	4.01E+07	0.79	0.75	50.2	3.11E+03	0.0402
PCB-69/49 23'46/22'45'-TeCB	24.93	C	1.0181	1.0181	0	1.13E+08	0.79	1.10	97.1	3.11E+03	0.0277
PCB-48 22'45-TeCB	25.22		1.0295	1.0296	+0.2	4.63E+07	0.80	0.90	48.4	3.11E+03	0.0335
PCB-44/47/65 ...-TeCB	25.43	C	1.0384	1.0385	+0.2	1.48E+08	0.79	0.96	145	3.11E+03	0.0314
PCB-59/62/75 ...-TeCB	25.71	C	1.0496	1.0497	+0.2	1.91E+08	0.78	1.25	144	3.11E+03	0.0242
PCB-42 22'34'-TeCB	25.87		1.0563	1.0565	+0.3	4.30E+07	0.78	0.82	49.6	3.11E+03	0.037
PCB-41 22'34-TeCB	26.21		1.0698	1.0701	+0.5	3.77E+07	0.77	0.76	46.7	3.11E+03	0.0398
PCB-71/40 23'4'6/22'33'-TeCB	26.30	C	1.0737	1.0740	+0.5	9.63E+07	0.80	0.92	99.3	3.11E+03	0.0331
PCB-64 234'6-TeCB	26.50		1.0819	1.0821	+0.3	6.81E+07	0.79	1.33	48.4	3.11E+03	0.0228
PCB-72 23'55'-TeCB	27.22		0.8436	0.8432	-0.7	6.46E+07	0.80	1.26	48.2	1.19E+04	0.0916
PCB-68 23'45'-TeCB	27.47		0.8515	0.8512	-0.5	6.79E+07	0.79	1.35	47.5	1.19E+04	0.0858
PCB-57 233'5-TeCB	27.85		0.8630	0.8627	-0.5	6.38E+07	0.80	1.22	49.4	1.19E+04	0.0949
PCB-58 233'5'-TeCB	28.05		0.8693	0.8690	-0.5	6.37E+07	0.80	1.27	47.2	1.19E+04	0.0908
PCB-67 23'45-TeCB	28.20		0.8741	0.8739	-0.3	6.84E+07	0.80	1.33	48.7	1.19E+04	0.0873
PCB-63 234'5-TeCB	28.43		0.8811	0.8808	-0.5	6.96E+07	0.79	1.40	47	1.19E+04	0.0828
PCB-61/70/74/76 ...-TeCB	28.72	C	0.8902	0.8899	-0.5	2.53E+08	0.80	1.25	191	1.19E+04	0.0928
PCB-66 23'44'-TeCB	29.01		0.8989	0.8987	-0.3	6.16E+07	0.80	1.18	49.3	1.19E+04	0.0982
PCB-55 233'4-TeCB	29.15		0.9034	0.9032	-0.3	5.95E+07	0.79	1.18	47.5	1.19E+04	0.098
PCB-56 233'4'-TeCB	29.59		0.9169	0.9167	-0.4	5.97E+07	0.80	1.17	48.3	1.19E+04	0.0993
PCB-60 2344'-TeCB	29.78		0.9229	0.9227	-0.4	6.12E+07	0.79	1.20	48.1	1.19E+04	0.0964
PCB-80 33'55'-TeCB	30.10		0.9329	0.9327	-0.4	7.05E+07	0.80	1.38	48.4	1.19E+04	0.0841
PCB-79 33'45'-TeCB	31.43		0.9737	0.9737	0	7.03E+07	0.79	1.37	48.4	1.19E+04	0.0844
PCB-78 33'45-TeCB	31.92		0.9889	0.9889	0	5.82E+07	0.78	1.15	47.9	1.19E+04	0.101
PCB-104 22'466'-PeCB	25.38		1.0009	1.0009	0	4.89E+07	0.63	1.43	46.6	1.69E+03	0.0163
PCB-96 22'366'-PeCB	25.70		1.0134	1.0134	0	4.31E+07	0.64	1.18	49.7	1.69E+03	0.0198
PCB-103 22'45'6-PeCB	27.39		0.8989	0.8987	-0.3	4.09E+07	0.61	0.93	49.2	4.97E+03	0.0619
PCB-94 22'356'-PeCB	27.58		0.9051	0.9050	-0.2	3.52E+07	0.61	0.79	50.1	4.97E+03	0.0732

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.96		0.9176	0.9175	-0.2	3.75E+07	0.62	0.86	48.9	4.97E+03	0.067
PCB-100/93 22'44'6/22'356-PeCB	28.17	C	0.9246	0.9244	-0.3	7.31E+07	0.61	0.86	95.6	4.97E+03	0.0673
PCB-102 22'456'-PeCB	28.28		0.9282	0.9280	-0.3	4.27E+07	0.63	1.00	47.9	4.97E+03	0.0577
PCB-98 22'34'6'-PeCB	28.35		0.9305	0.9303	-0.3	3.59E+07	0.62	0.74	54.7	4.97E+03	0.0783
PCB-88 22'346-PeCB	28.65		0.9403	0.9401	-0.3	2.98E+07	0.61	0.78	43.1	4.97E+03	0.0743
PCB-91 22'34'6-PeCB	28.72		0.9424	0.9422	-0.3	4.49E+07	0.62	0.92	54.8	4.97E+03	0.0627
PCB-84 22'33'6-PeCB	28.91		0.9487	0.9487	0	3.18E+07	0.62	0.71	50	4.97E+03	0.081
PCB-89 22'346'-PeCB	29.33		0.9624	0.9624	0	3.33E+07	0.61	0.76	49.3	4.97E+03	0.0762
PCB-121 23'45'6-PeCB	29.67		0.9736	0.9736	0	5.34E+07	0.63	1.20	50.1	4.97E+03	0.0483
PCB-92 22'355'-PeCB	29.99		0.9841	0.9840	-0.2	3.64E+07	0.61	0.81	50.4	4.97E+03	0.0712
PCB-113/90/101 ...-PeCB	30.47	C	0.9999	0.9999	0	1.28E+08	0.62	0.96	149	4.97E+03	0.0601
PCB-83 22'33'5-PeCB	30.91		1.0142	1.0142	0	2.97E+07	0.63	0.70	47.9	4.97E+03	0.0829
PCB-99 22'44'5-PeCB	31.01		1.0173	1.0174	+0.2	4.30E+07	0.62	0.90	53.8	4.97E+03	0.0644
PCB-112 233'56-PeCB	31.11		1.0206	1.0208	+0.4	5.04E+07	0.62	1.17	48.5	4.97E+03	0.0495
PCB-108/119/86/97/125...-PeCB	31.45	C	1.0320	1.0321	+0.2	2.56E+08	0.62	0.98	294	4.97E+03	0.0591
PCB-117 234'56-PeCB	31.99		1.0495	1.0496	+0.2	4.93E+07	0.62	1.18	47	4.97E+03	0.0491
PCB-116/85 23456/22'344'-PeCB	32.08	C	1.0525	1.0527	+0.4	8.38E+07	0.62	0.88	108	4.97E+03	0.066
PCB-110 233'4'6-PeCB	32.20	B	1.0561	1.0565	+0.8	4.97E+07	0.62	1.10	50.9	4.97E+03	0.0527
PCB-115 2344'6-PeCB	32.28		1.0590	1.0593	+0.6	4.92E+07	0.63	1.16	47.7	4.97E+03	0.0499
PCB-82 22'33'4-PeCB	32.48		1.0655	1.0657	+0.4	3.08E+07	0.61	0.69	50.2	4.97E+03	0.0839
PCB-111 233'55'-PeCB	32.79		1.0757	1.0759	+0.4	5.32E+07	0.62	1.21	49.6	4.97E+03	0.0479
PCB-120 23'455'-PeCB	33.19		1.0887	1.0890	+0.6	5.37E+07	0.62	1.22	49.3	4.97E+03	0.0472
PCB-107/124 ...-PeCB	34.15	C	0.9916	0.9915	-0.2	9.69E+07	0.62	1.11	98.3	4.97E+03	0.0522
PCB-109 233'46-PeCB	34.36		0.9976	0.9976	0	5.66E+07	0.61	1.24	51.3	4.97E+03	0.0466
PCB-106 233'45-PeCB	34.58		1.0038	1.0040	+0.4	4.72E+07	0.61	1.11	47.9	4.97E+03	0.0521
PCB-122 233'4'5'-PeCB	35.04		1.0091	1.0091	0	4.64E+07	0.62	1.03	49	4.97E+03	0.0552
PCB-127 33'455'-PeCB	36.99		1.0350	1.0351	+0.2	5.02E+07	0.61	1.12	48.4	4.97E+03	0.0497
PCB-155 22'44'66'-HxCB	30.33		1.0007	1.0007	0	5.23E+07	1.27	1.26	48.1	2.05E+03	0.0193
PCB-152 22'3566'-HxCB	30.49		1.0060	1.0061	+0.2	4.97E+07	1.26	1.14	50.7	2.05E+03	0.0214
PCB-150 22'34'66'-HxCB	30.64		1.0107	1.0108	+0.2	5.10E+07	1.27	1.15	51.3	2.05E+03	0.0211
PCB-136 22'33'66'-HxCB	30.94		1.0207	1.0208	+0.2	4.68E+07	1.28	1.06	51.3	2.05E+03	0.023
PCB-145 22'3466'-HxCB	31.21		1.0296	1.0297	+0.2	4.78E+07	1.26	1.09	50.7	2.05E+03	0.0223
PCB-148 22'34'56'-HxCB	32.48		1.0714	1.0717	+0.6	3.59E+07	1.26	1.15	50.3	2.05E+03	0.0298
PCB-151/135 ...-HxCB	33.00	C	1.0886	1.0888	+0.4	6.94E+07	1.25	1.09	102	2.05E+03	0.0313
PCB-154 22'44'56'-HxCB	33.21		1.0954	1.0957	+0.6	4.05E+07	1.26	1.29	50.7	2.05E+03	0.0266
PCB-144 22'345'6-HxCB	33.47		1.1041	1.1044	+0.6	3.56E+07	1.27	1.14	50.4	2.05E+03	0.03
PCB-147/149 ...-HxCB	33.78	C	1.1141	1.1144	+0.6	7.19E+07	1.28	1.11	104	2.05E+03	0.0307
PCB-134 22'33'56-HxCB	33.95		1.1199	1.1202	+0.6	2.72E+07	1.25	0.93	47	2.05E+03	0.0367
PCB-143 22'3456'-HxCB	34.03		1.1225	1.1228	+0.6	3.48E+07	1.27	1.02	54.8	2.05E+03	0.0335
PCB-139/140 ...-HxCB	34.30	C	1.1312	1.1315	+0.6	7.21E+07	1.26	1.13	103	2.05E+03	0.0302
PCB-131 22'33'46-HxCB	34.47		1.1369	1.1373	+0.8	3.11E+07	1.25	0.98	51.3	2.05E+03	0.0351
PCB-142 22'3456-HxCB	34.61		1.1416	1.1421	+1.0	3.00E+07	1.26	0.95	50.9	2.05E+03	0.036
PCB-132 22'33'46'-HxCB	34.85		1.1494	1.1498	+0.8	3.18E+07	1.28	0.99	51.7	2.05E+03	0.0345
PCB-133 22'33'55'-HxCB	35.25		1.1626	1.1631	+1.1	3.33E+07	1.26	1.05	51.1	2.05E+03	0.0326
PCB-165 233'55'6-HxCB	35.59		0.9525	0.9524	-0.2	4.37E+07	1.26	1.35	52	2.05E+03	0.0253
PCB-146 22'34'55'-HxCB	35.81		0.9582	0.9581	-0.2	3.80E+07	1.26	1.15	53.1	2.05E+03	0.0297
PCB-161 233'45'6-HxCB	35.93		0.9613	0.9613	0	4.56E+07	1.27	1.47	49.8	2.05E+03	0.0232
PCB-153/168 ...-HxCB	36.35	C	0.9728	0.9727	-0.2	8.85E+07	1.27	1.42	101	2.05E+03	0.0241

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.50		0.9766	0.9765	-0.2	3.36E+07	1.26	1.04	52.1	2.05E+03	0.0329
PCB-130 22'33'45'-HxCB	36.84		0.9859	0.9859	0	2.96E+07	1.28	0.92	51.8	2.05E+03	0.0372
PCB-137 22'344'5'-HxCB	37.04		0.9911	0.9912	+0.2	3.77E+07	1.29	1.11	54.4	2.05E+03	0.0307
PCB-164 233'4'5'6'-HxCB	37.13		0.9933	0.9934	+0.2	4.42E+07	1.29	1.43	49.9	2.05E+03	0.024
PCB-163/138/129 ...-HxCB	37.42	C	1.0011	1.0011	0	1.10E+08	1.28	1.15	155	2.05E+03	0.0298
PCB-160 233'456-HxCB	37.55		1.0048	1.0049	+0.2	4.25E+07	1.27	1.39	49.2	2.05E+03	0.0246
PCB-158 233'44'6'-HxCB	37.73		1.0096	1.0096	0	4.93E+07	1.26	1.53	51.8	2.05E+03	0.0223
PCB-128/166 ...-HxCB	38.47	C	0.9641	0.9640	-0.2	7.46E+07	1.23	0.90	97.7	8.30E+03	0.113
PCB-159 233'455'-HxCB	39.28		0.9844	0.9843	-0.2	4.49E+07	1.23	1.10	48.3	8.30E+03	0.0926
PCB-162 233'4'55'-HxCB	39.52		0.9903	0.9903	0	4.50E+07	1.21	1.10	48.3	8.30E+03	0.0923
PCB-188 22'34'566'-HpCB	35.21		1.0006	1.0006	0	3.69E+07	1.07	1.27	46.4	1.54E+03	0.0202
PCB-179 22'33'566'-HpCB	35.49		1.0086	1.0087	+0.2	3.77E+07	1.06	1.13	53.3	1.54E+03	0.0227
PCB-184 22'344'66'-HpCB	35.95		1.0216	1.0217	+0.2	3.36E+07	1.05	1.06	50.7	1.54E+03	0.0243
PCB-176 22'33'466'-HpCB	36.24		1.0300	1.0301	+0.2	3.78E+07	1.06	1.15	52.6	1.54E+03	0.0224
PCB-186 22'34566'-HpCB	36.64		1.0413	1.0415	+0.4	3.46E+07	1.07	1.07	51.5	1.54E+03	0.0239
PCB-178 22'33'55'6'-HpCB	37.77		1.0733	1.0735	+0.5	2.48E+07	1.06	0.77	51.2	1.54E+03	0.0331
PCB-175 22'33'45'6'-HpCB	38.31		1.0887	1.0889	+0.5	3.51E+07	1.05	1.07	54.5	8.99E+03	0.15
PCB-187 22'34'55'6'-HpCB	38.54		1.0952	1.0954	+0.5	3.50E+07	1.05	1.15	50.6	8.99E+03	0.14
PCB-182 22'344'56'-HpCB	38.72		1.1002	1.1005	+0.7	3.53E+07	1.05	1.18	49.9	8.99E+03	0.137
PCB-183 22'344'5'6'-HpCB	39.07		1.1101	1.1103	+0.5	3.73E+07	1.06	1.20	52.1	8.99E+03	0.135
PCB-185 22'3455'6'-HpCB	39.15		1.1125	1.1127	+0.5	3.06E+07	1.04	1.10	46.1	8.99E+03	0.146
PCB-174 22'33'456'-HpCB	39.26		1.1156	1.1158	+0.5	2.97E+07	1.06	0.94	53	8.99E+03	0.172
PCB-177 22'33'45'6'-HpCB	39.64		1.1262	1.1265	+0.7	2.86E+07	1.06	0.92	51.6	8.99E+03	0.174
PCB-181 22'344'56'-HpCB	39.98		1.1361	1.1364	+0.7	3.19E+07	1.04	1.07	49.6	8.99E+03	0.15
PCB-171/173 ...-HpCB	40.17	C	1.1413	1.1416	+0.7	5.66E+07	1.05	0.94	101	8.99E+03	0.171
PCB-172 22'33'455'-HpCB	41.51		0.9080	0.9079	-0.2	2.95E+07	1.04	0.98	50.3	8.99E+03	0.164
PCB-192 233'455'6'-HpCB	41.76		0.9134	0.9133	-0.3	3.83E+07	1.05	1.29	49.6	8.99E+03	0.125
PCB-180/193 ...-HpCB	42.04	C	0.9194	0.9193	-0.3	7.57E+07	1.04	1.24	101	8.99E+03	0.129
PCB-191 233'44'5'6'-HpCB	42.37		0.9266	0.9265	-0.3	4.12E+07	1.06	1.38	49.7	8.99E+03	0.116
PCB-170 22'33'44'5'-HpCB	43.14		0.9434	0.9434	0	2.96E+07	1.04	1.13	51.6	8.99E+03	0.165
PCB-190 233'44'56'-HpCB	43.59		0.9533	0.9532	-0.3	4.40E+07	1.04	1.60	54.6	8.99E+03	0.117
PCB-202 22'33'55'66'-OcCB	39.74		1.0005	1.0005	0	3.12E+07	0.90	1.05	48.9	1.76E+03	0.0286
PCB-201 22'33'45'66'-OcCB	40.53		1.0203	1.0203	0	3.56E+07	0.90	1.14	51.5	1.76E+03	0.0264
PCB-204 22'344'566'-OcCB	41.10		1.0348	1.0348	0	3.35E+07	0.91	1.07	51.6	1.76E+03	0.0281
PCB-197 22'33'44'66'-OcCB	41.29		1.0396	1.0395	-0.2	3.53E+07	0.91	1.10	53	1.76E+03	0.0274
PCB-200 22'33'4566'-OcCB	41.38		1.0418	1.0419	+0.2	3.30E+07	0.90	1.08	50.3	1.76E+03	0.0278
PCB-198/199 ...-OcCB	43.70	C	1.1001	1.1003	+0.5	4.81E+07	0.90	0.74	107	1.76E+03	0.0406
PCB-196 22'33'44'56'-OcCB	44.28		1.1146	1.1148	+0.5	2.51E+07	0.91	0.80	52.3	1.76E+03	0.0379
PCB-203 22'344'55'6'-OcCB	44.45		1.1188	1.1190	+0.5	2.58E+07	0.91	0.83	51.1	1.76E+03	0.0362
PCB-195 22'33'44'56'-OcCB	45.57		0.9516	0.9515	-0.3	2.23E+07	0.92	0.72	51.8	4.21E+03	0.101
PCB-194 22'33'44'55'-OcCB	47.51		0.9921	0.9921	0	2.52E+07	0.91	0.81	52.6	4.21E+03	0.0909
PCB-205 233'44'55'6'-OcCB	47.91		1.0004	1.0004	0	3.10E+07	0.91	1.06	49	4.21E+03	0.0691
PCB-208 22'33'455'66'-NoCB	45.36		1.0005	1.0005	0	3.51E+07	0.78	1.12	49.6	4.97E+03	0.0735
PCB-207 22'33'44'566'-NoCB	46.15		1.0178	1.0178	0	3.79E+07	0.78	1.18	51.2	4.97E+03	0.0703
PCB-206 22'33'44'55'6'-NoCB	49.37		1.0004	1.0004	0	2.38E+07	0.78	1.11	49.9	4.97E+03	0.108



**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	112	50 - 150	Y
PCB-3 4-MoCB	50	113	50 - 150	Y
PCB-4 22'-DiCB	50	94.1	50 - 150	Y
PCB-15 44'-DiCB	50	104	50 - 150	Y
PCB-19 22'6'-TrCB	50	96.8	50 - 150	Y
PCB-37 344'-TrCB	50	112	50 - 150	Y
PCB-54 22'66'-TeCB	50	94	50 - 150	Y
PCB-77 33'44'-TeCB	50	102	50 - 150	Y
PCB-81 344'5'-TeCB	50	105	50 - 150	Y
PCB-104 22'466'-PeCB	50	93.3	50 - 150	Y
PCB-105 233'44'-PeCB	50	97.6	50 - 150	Y
PCB-114 2344'5'-PeCB	50	99.2	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	97.6	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	98.8	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	105	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	96.2	50 - 150	Y
PCB-156/157 ...-HxCB	100	98.9	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	97.5	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	95.8	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	92.8	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	102	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	97.9	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	98.1	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	99.7	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	99.2	50 - 150	Y
PCB-209 DeCB	50	96.9	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140328X08 Analysis Date: 28-MAR-2014 17:55:43  
 Lab ID: OPR1\_11903\_PCB-RJ2

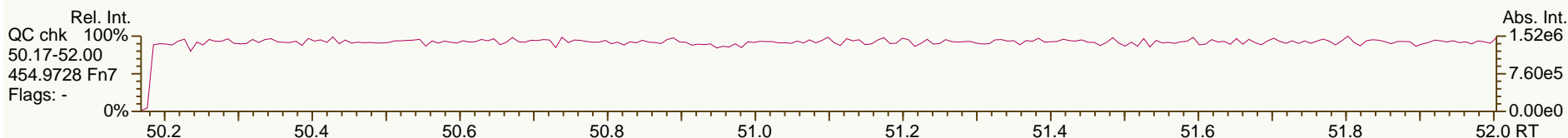
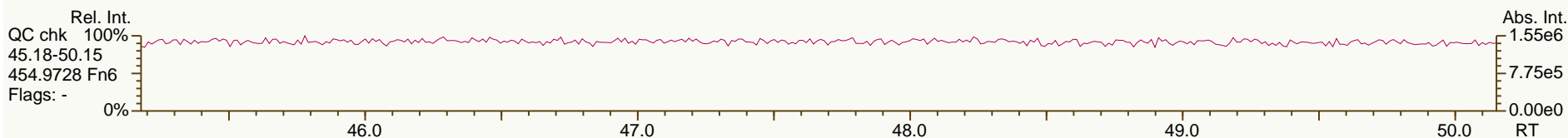
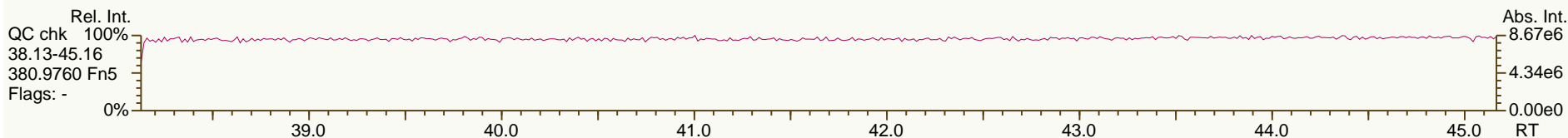
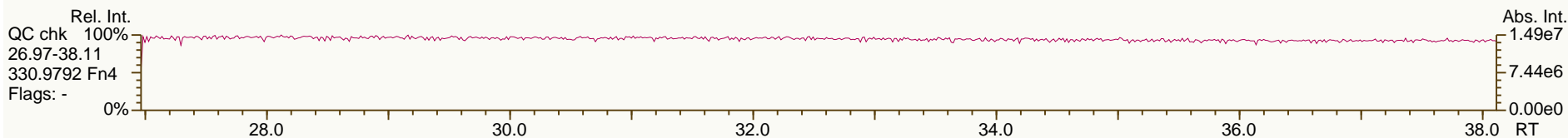
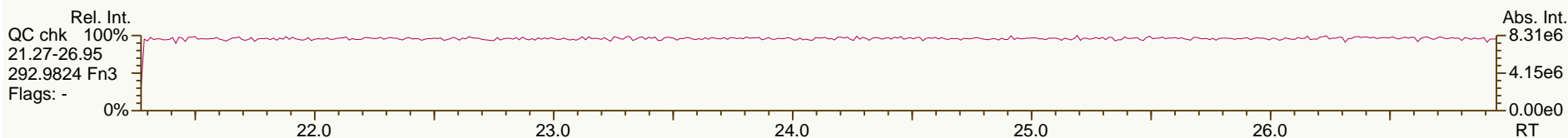
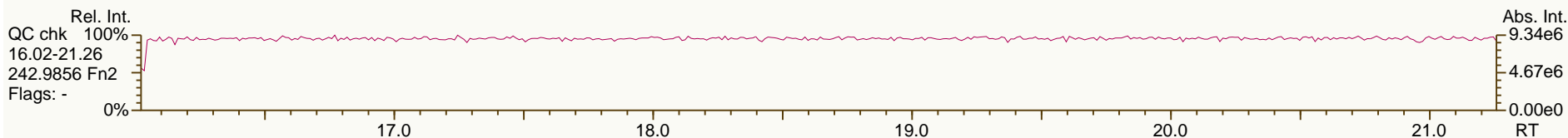
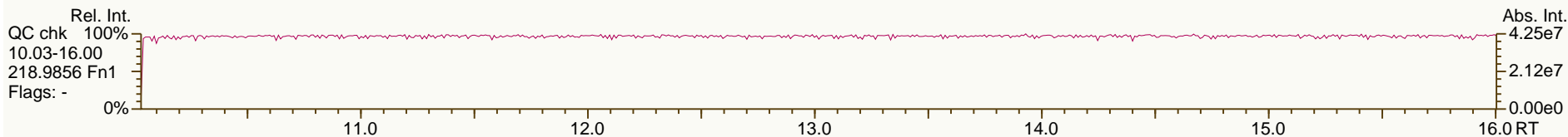
LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	86.7	15	-	140	Y
ES PCB-3	100	89.1	15	-	140	Y
ES PCB-4	100	110	30	-	140	Y
ES PCB-15	100	107	30	-	140	Y
ES PCB-19	100	108	30	-	140	Y
ES PCB-37	100	96	30	-	140	Y
ES PCB-54	100	119	30	-	140	Y
ES PCB-77	100	100	30	-	140	Y
ES PCB-81	100	98.9	30	-	140	Y
ES PCB-104	100	129	30	-	140	Y
ES PCB-105	100	109	30	-	140	Y
ES PCB-114	100	106	30	-	140	Y
ES PCB-118	100	109	30	-	140	Y
ES PCB-123	100	106	30	-	140	Y
ES PCB-126	100	117	30	-	140	Y
ES PCB-153	100	98.4	30	-	140	Y
ES PCB-155	100	97	30	-	140	Y
ES PCB-156/157	200	90.4	30	-	140	Y
ES PCB-167	100	90.6	30	-	140	Y
ES PCB-169	100	97.7	30	-	140	Y
ES PCB-170	100	100	30	-	140	Y
ES PCB-180	100	102	30	-	140	Y
ES PCB-188	100	119	30	-	140	Y
ES PCB-189	100	102	30	-	140	Y
ES PCB-202	100	111	30	-	140	Y
ES PCB-205	100	99.2	30	-	140	Y
ES PCB-206	100	107	30	-	140	Y
ES PCB-208	100	111	30	-	140	Y
ES PCB-209	100	102	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	98.8	40	-	125	Y
CS PCB-111	100	112	40	-	125	Y
CS PCB-178	100	129	40	-	125	N

Processed: 04 Apr 2014 09:49 Analyst: ds

SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

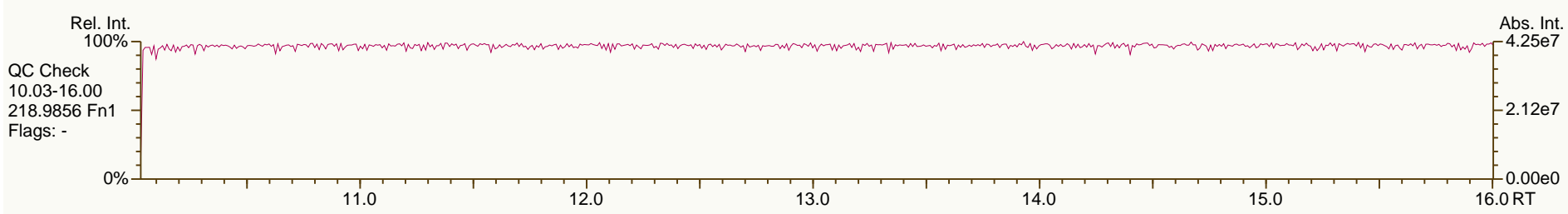
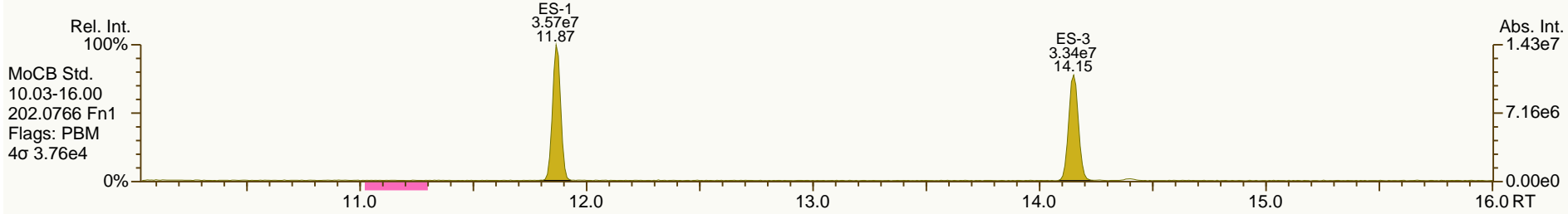
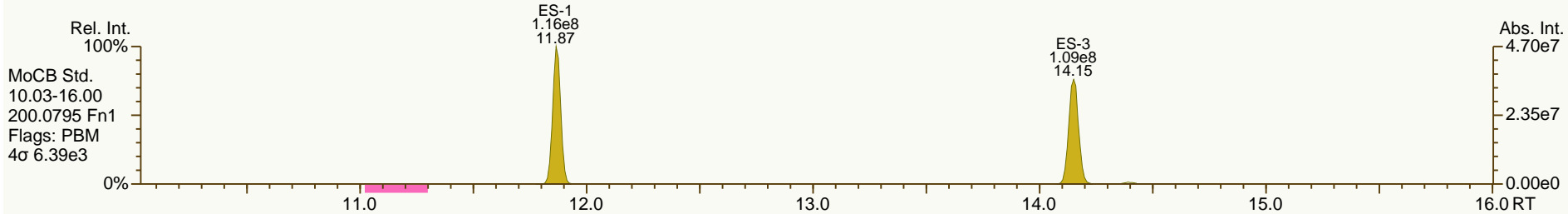
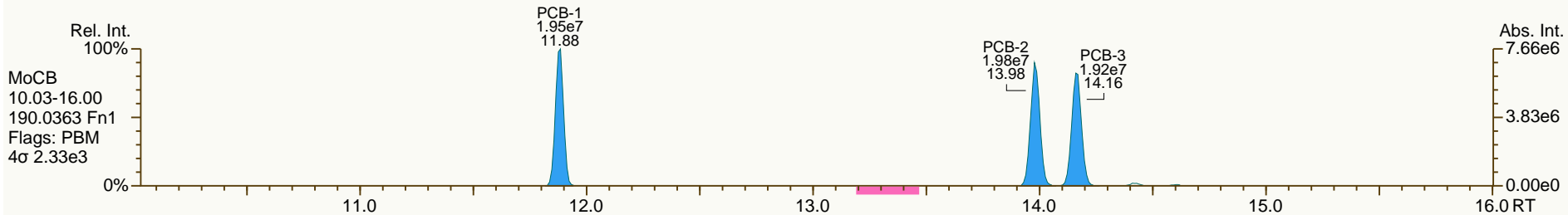
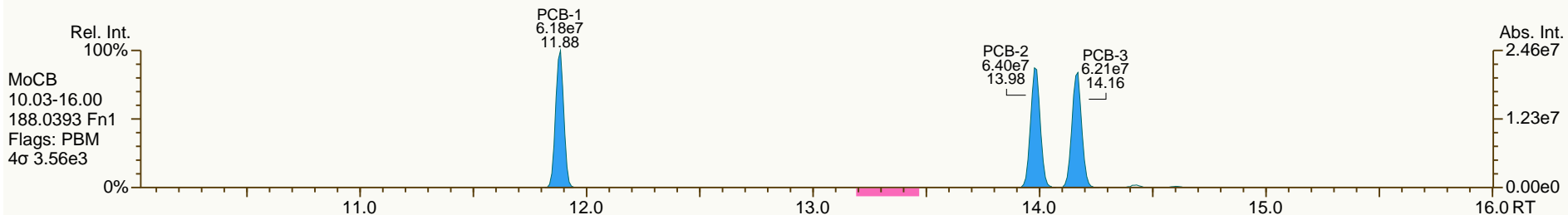
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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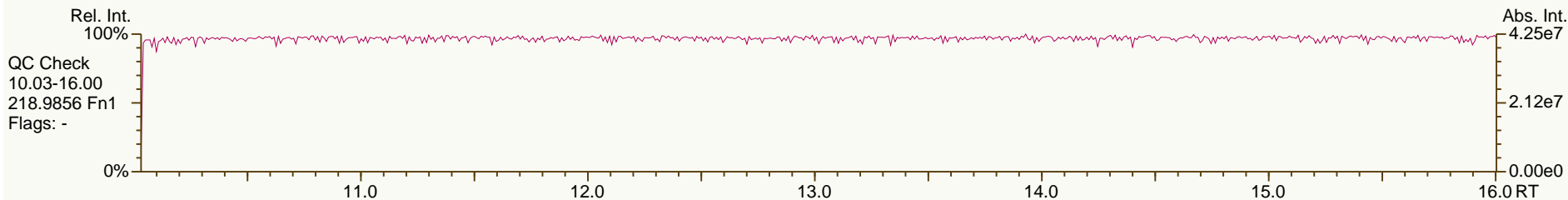
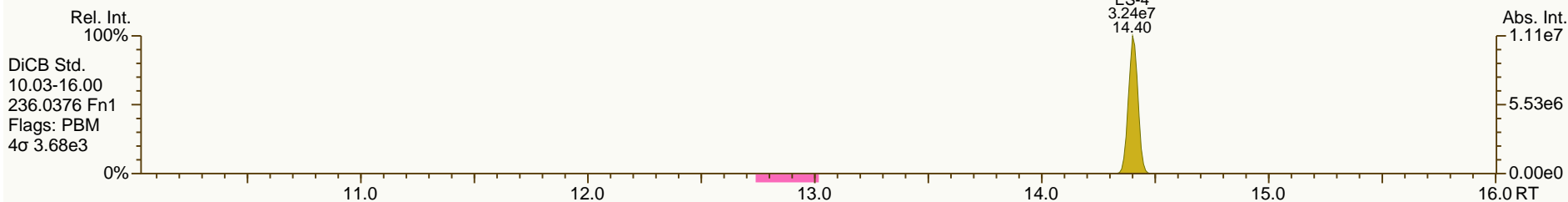
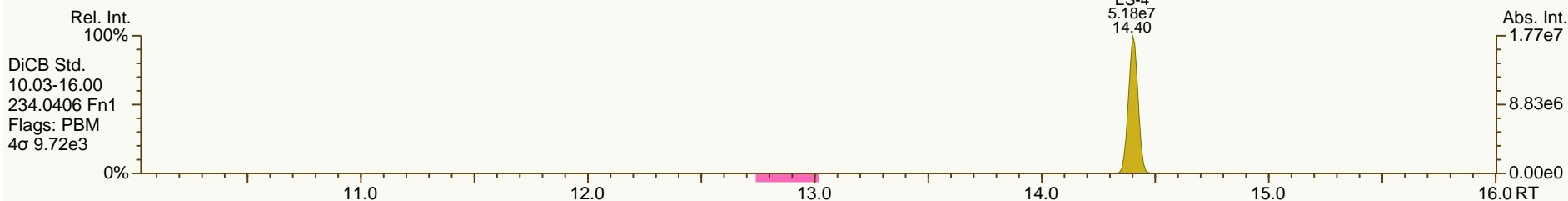
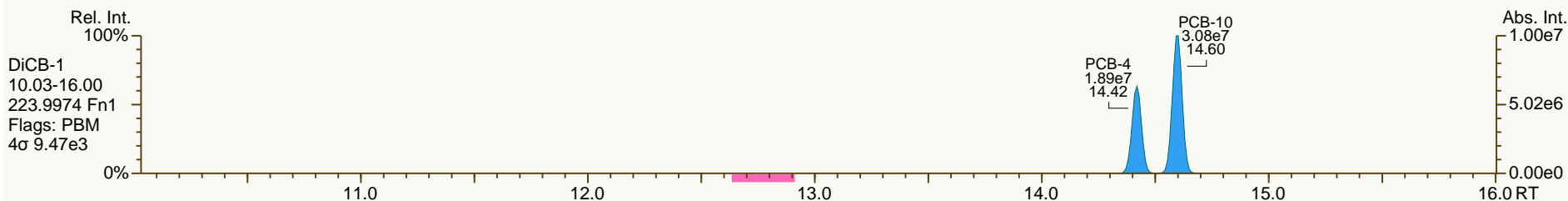
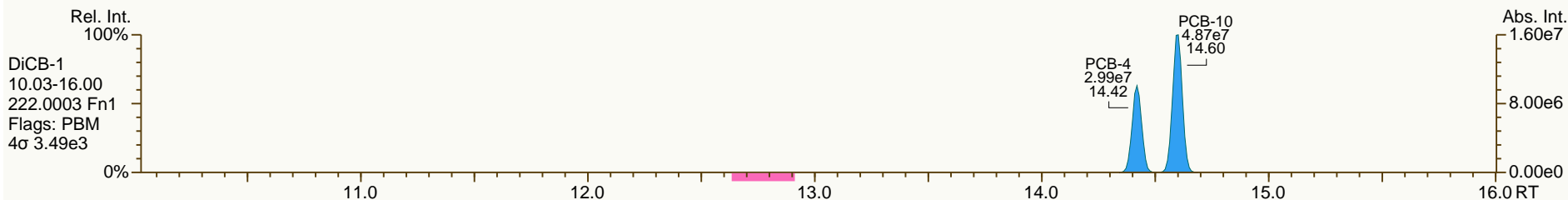
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SGS ID: OPR1\_11903\_PCB-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

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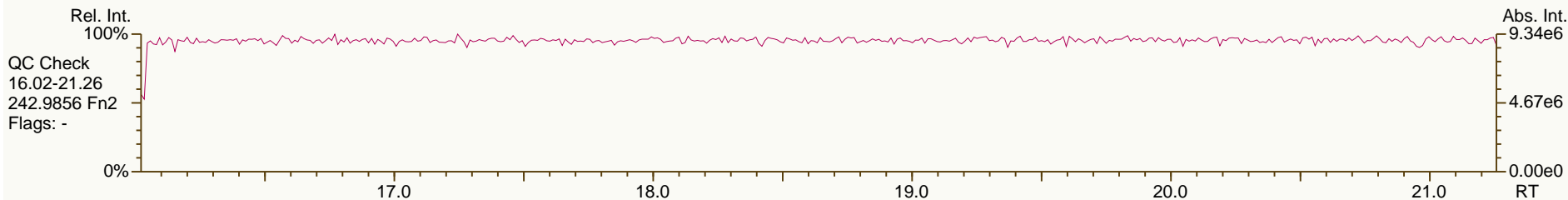
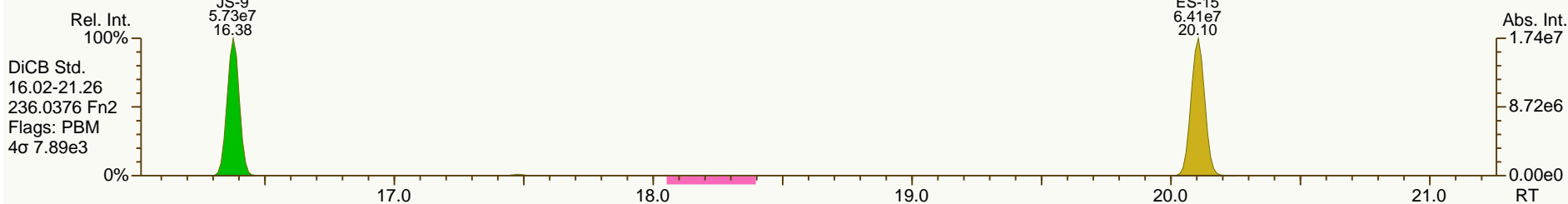
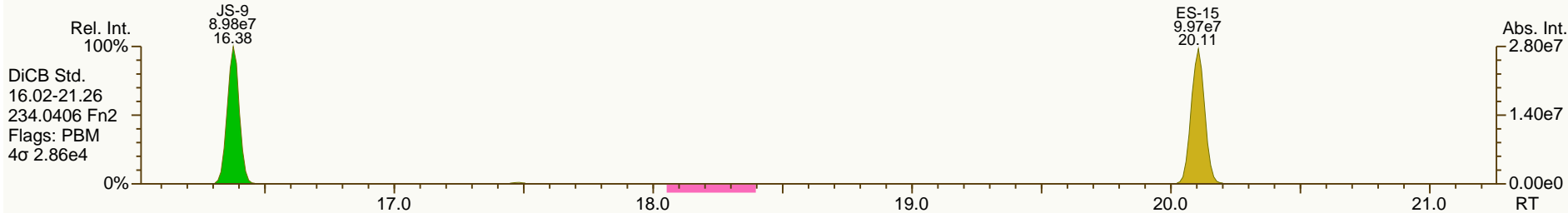
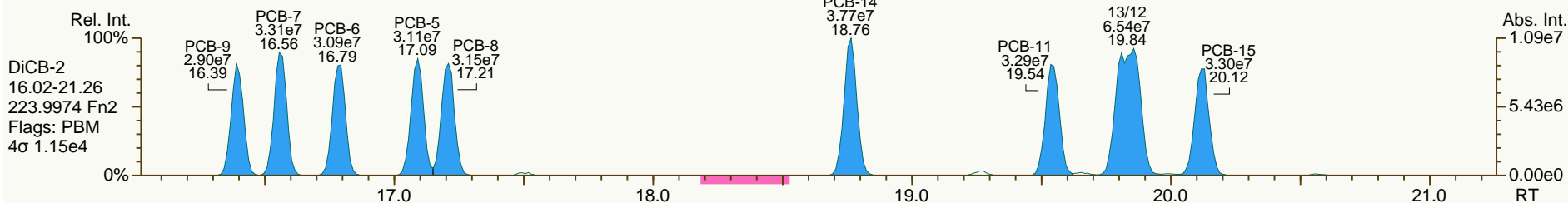
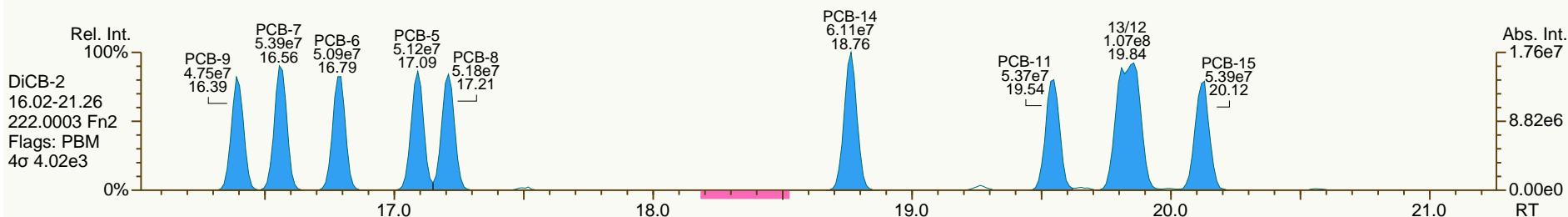
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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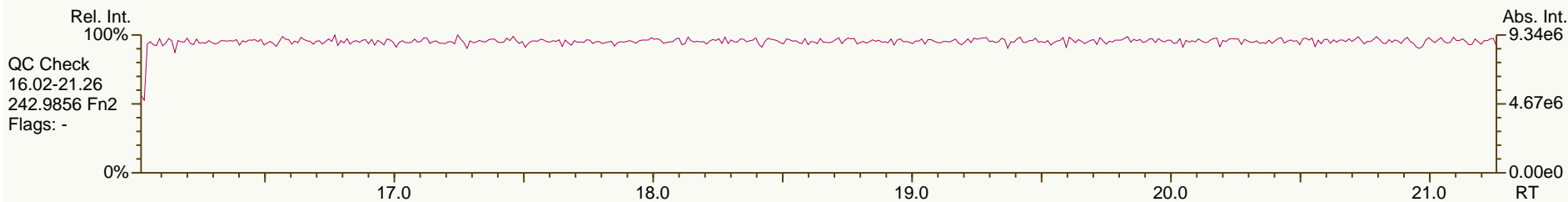
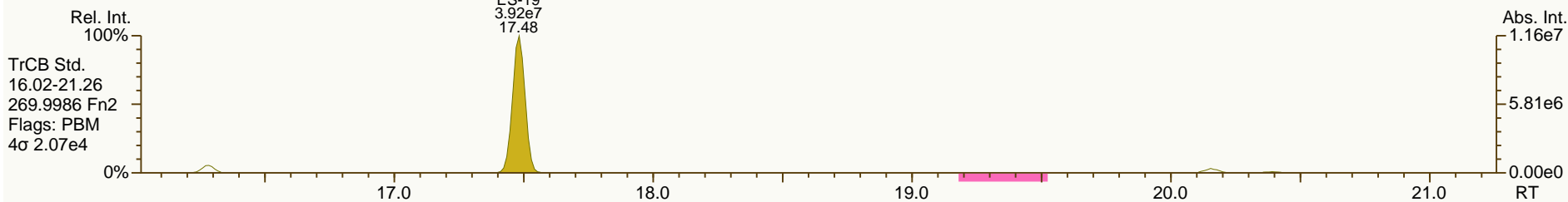
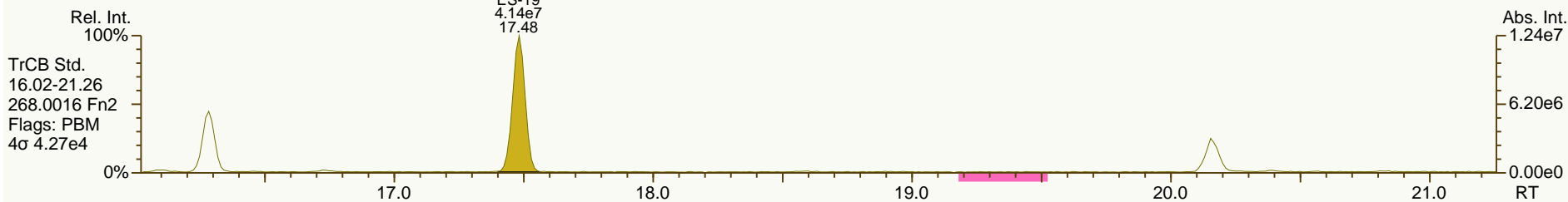
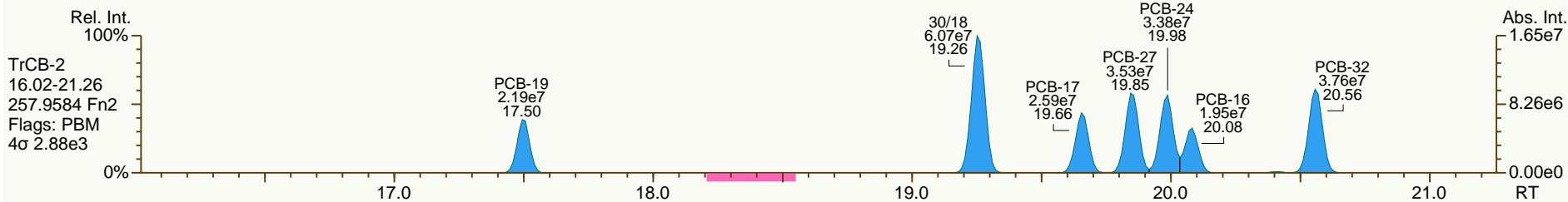
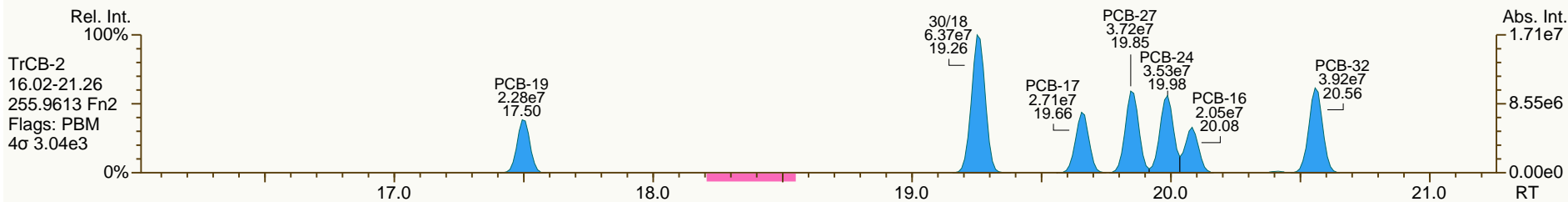
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

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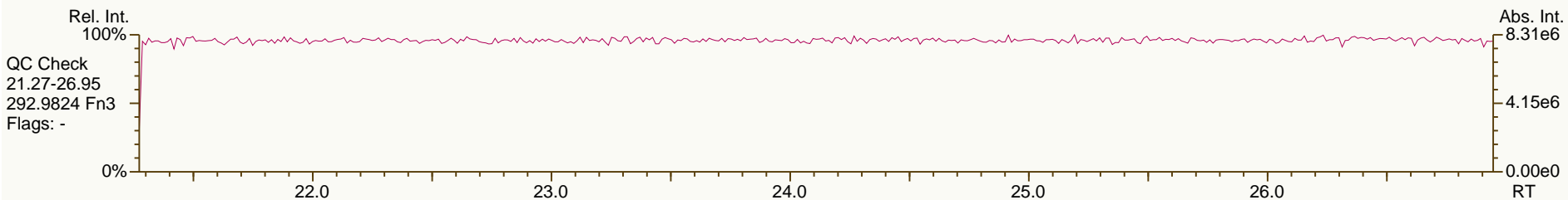
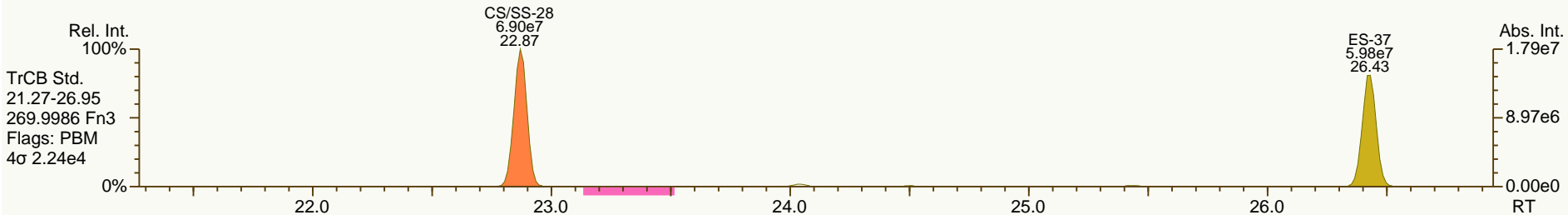
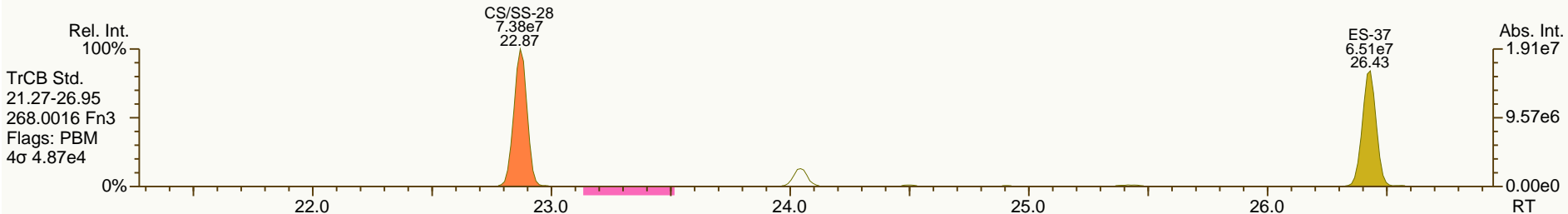
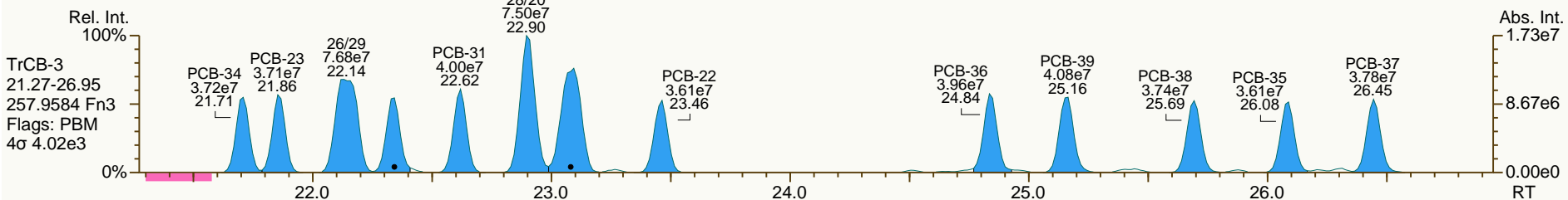
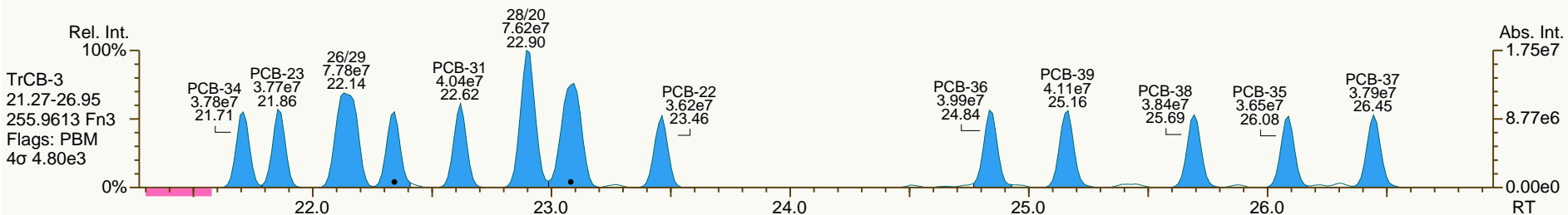
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
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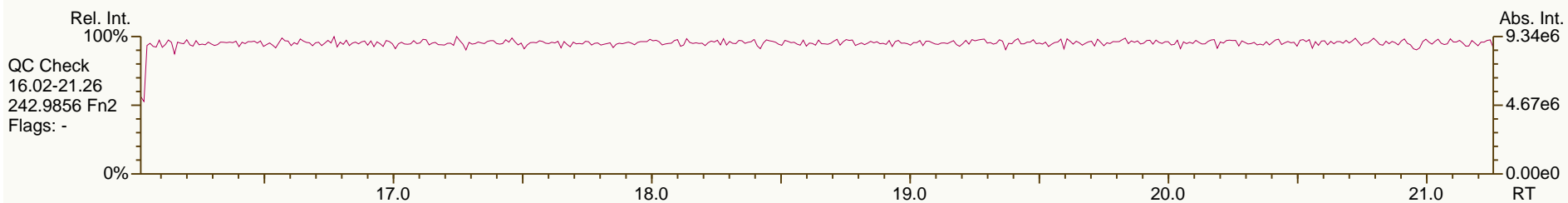
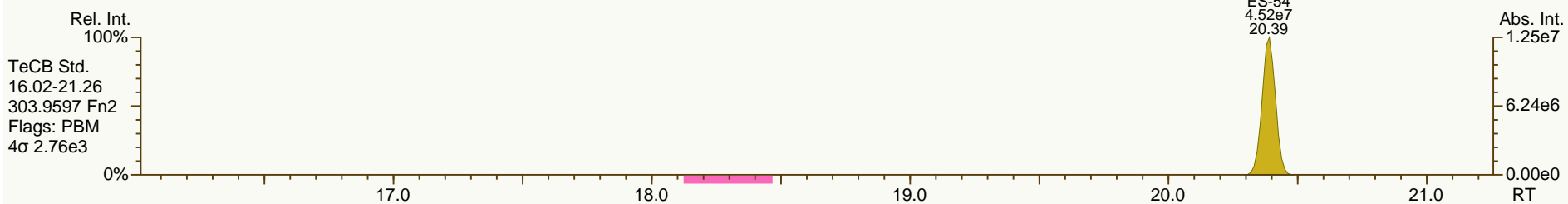
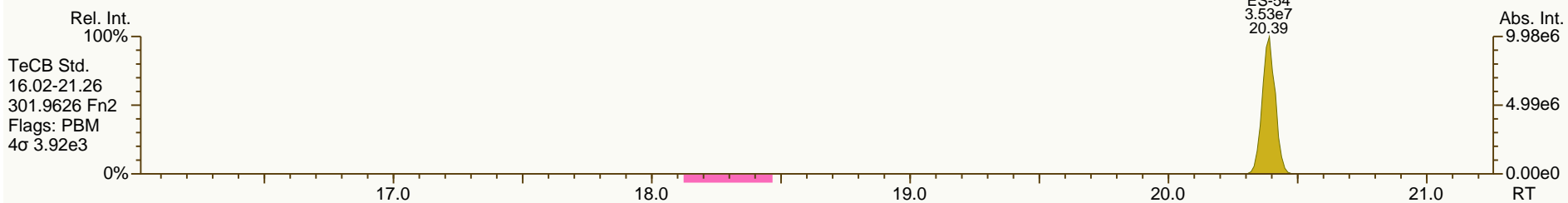
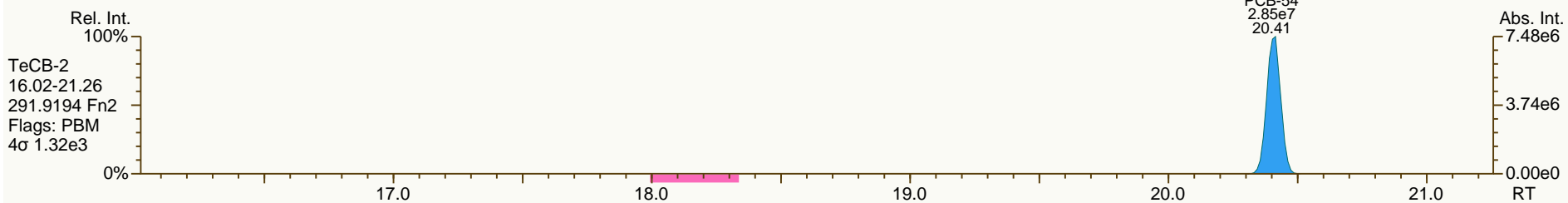
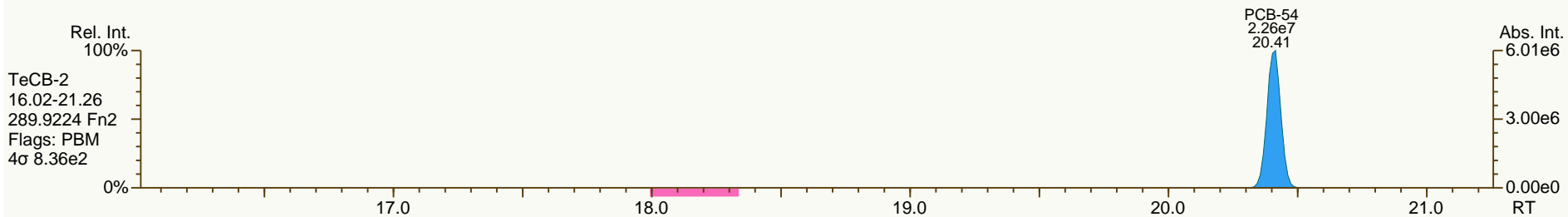




SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

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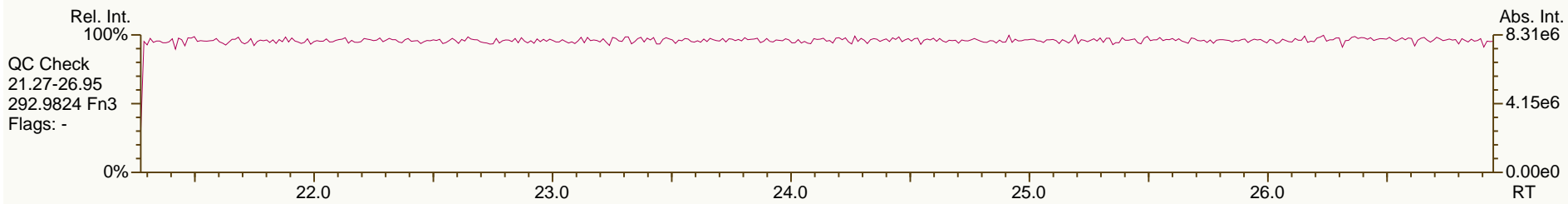
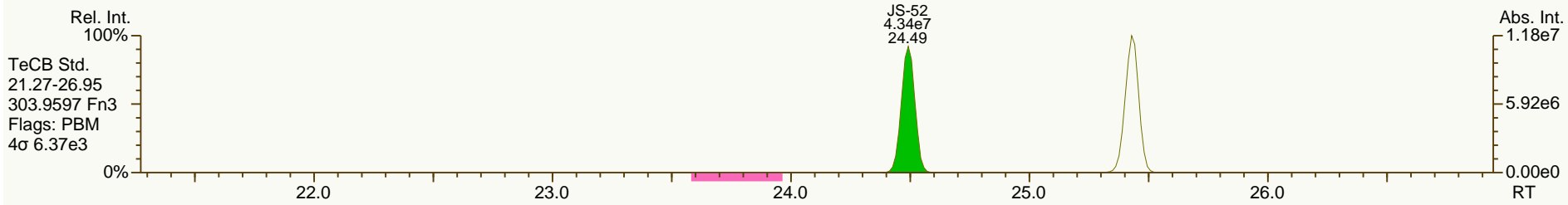
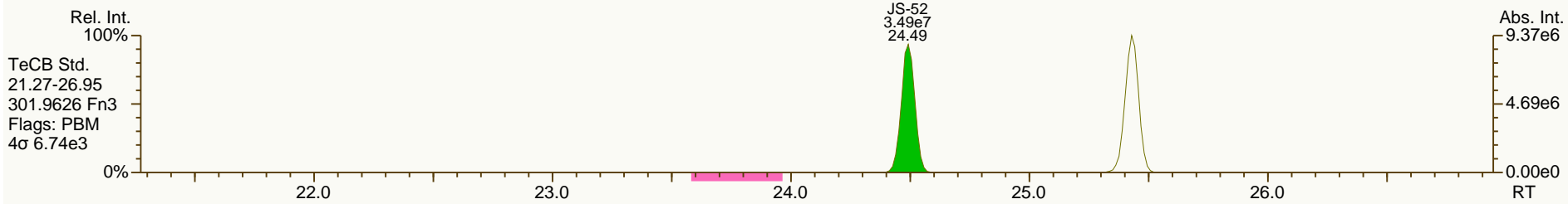
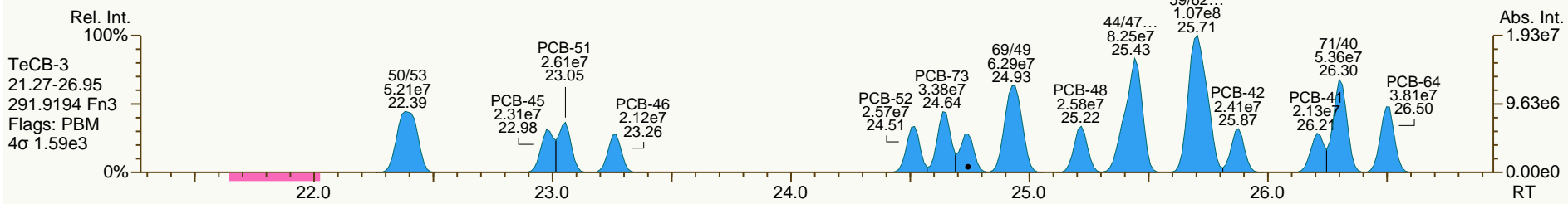
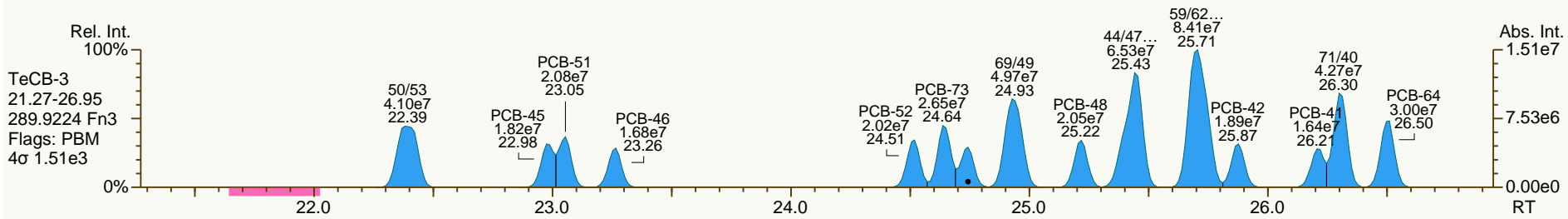
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SGS ID: OPR1\_11903\_PCB-RJ2  
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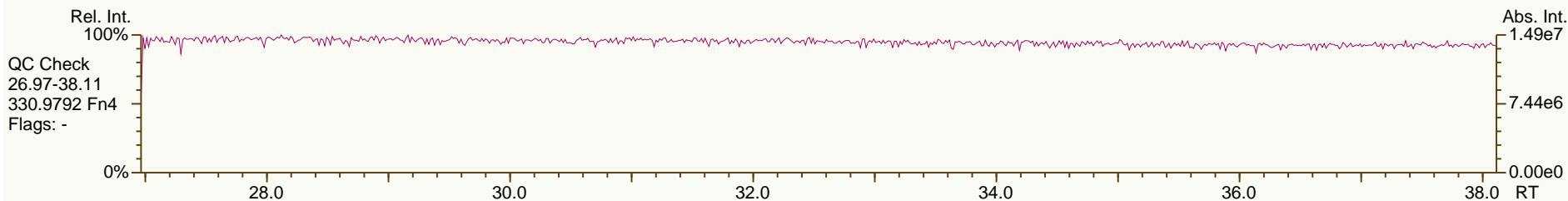
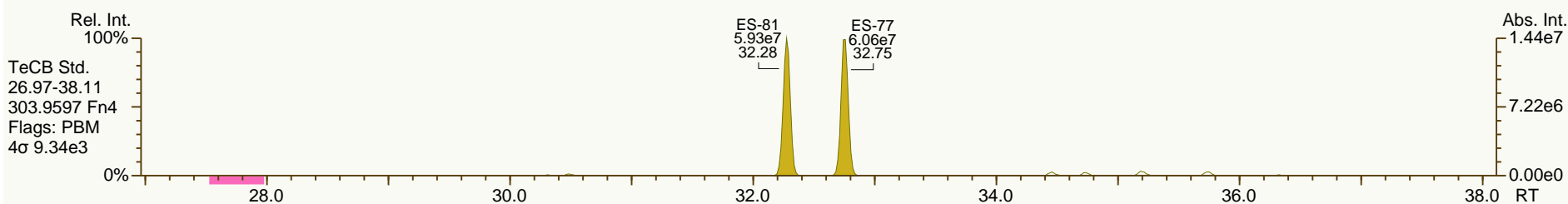
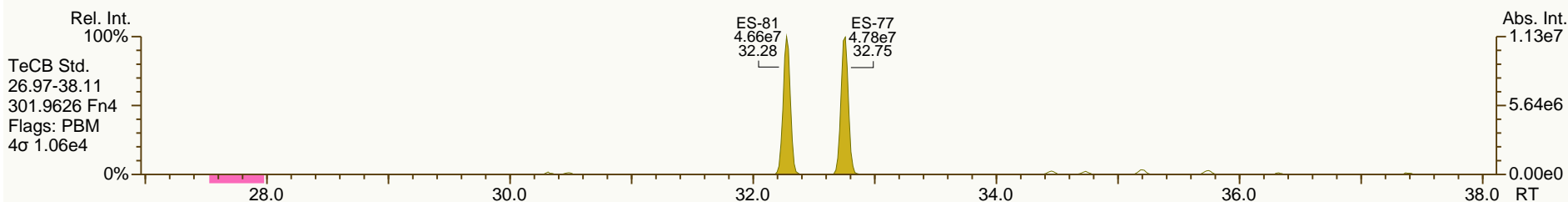
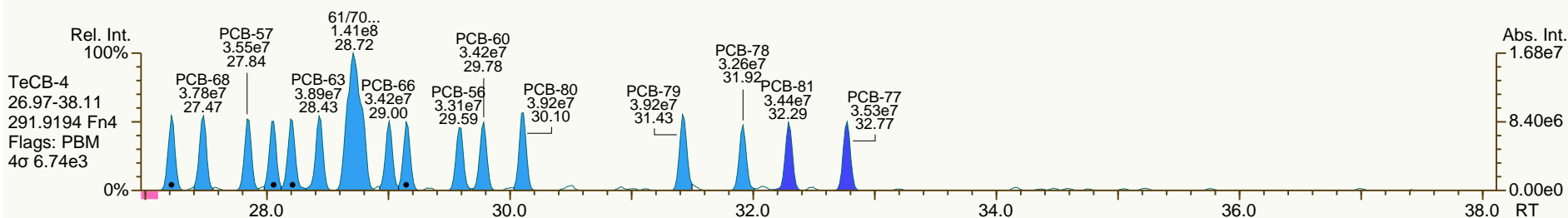
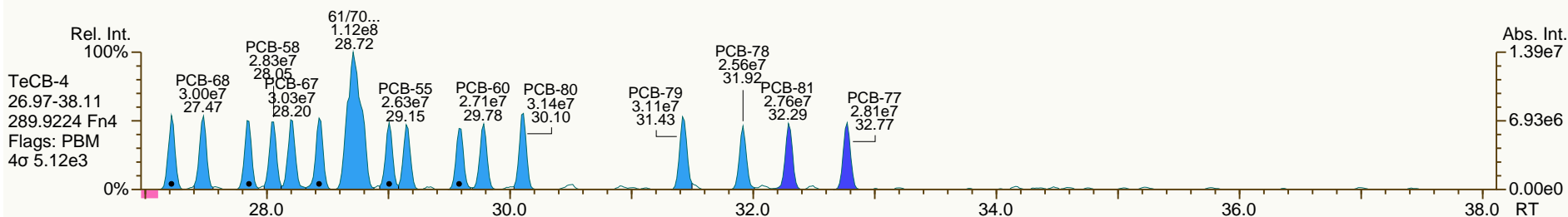
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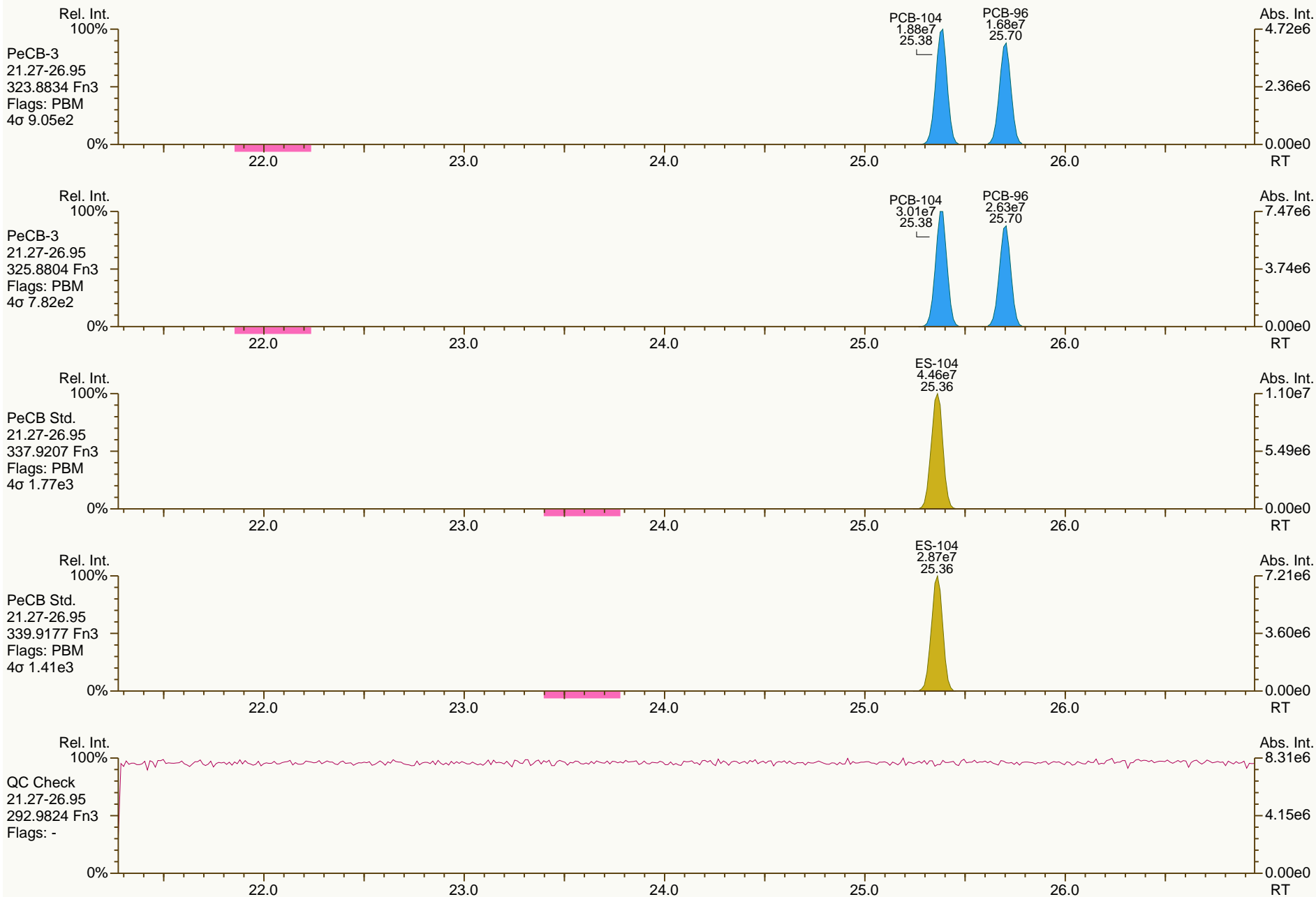
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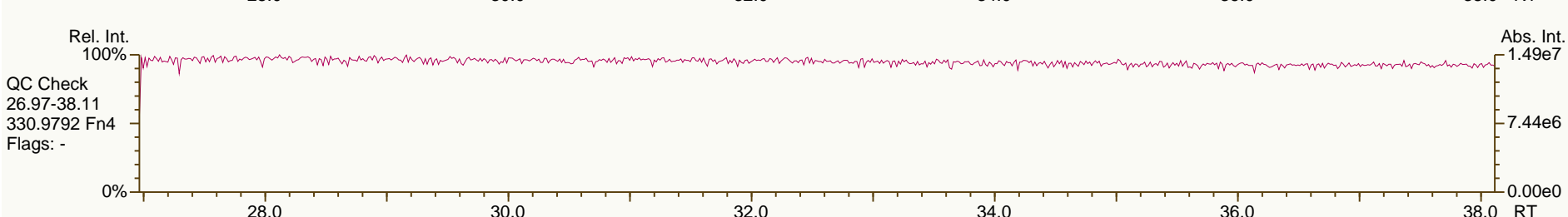
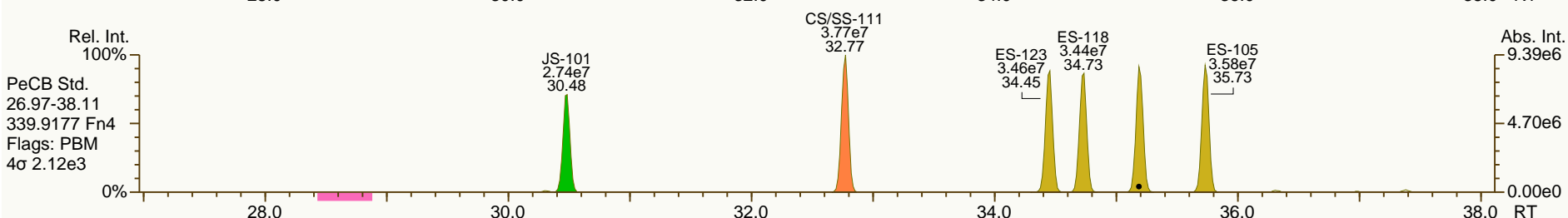
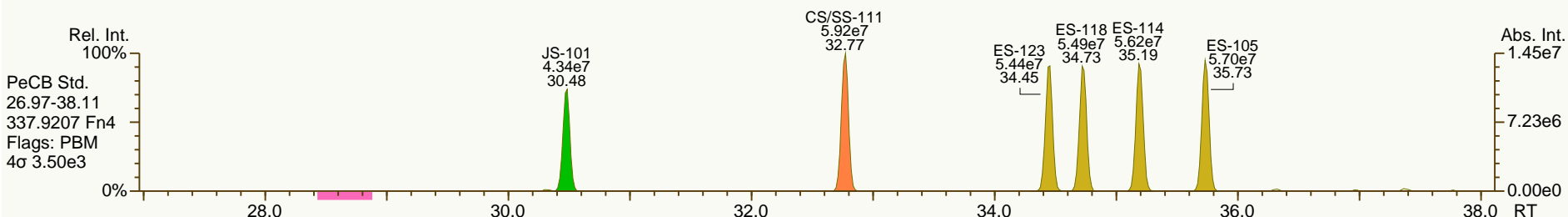
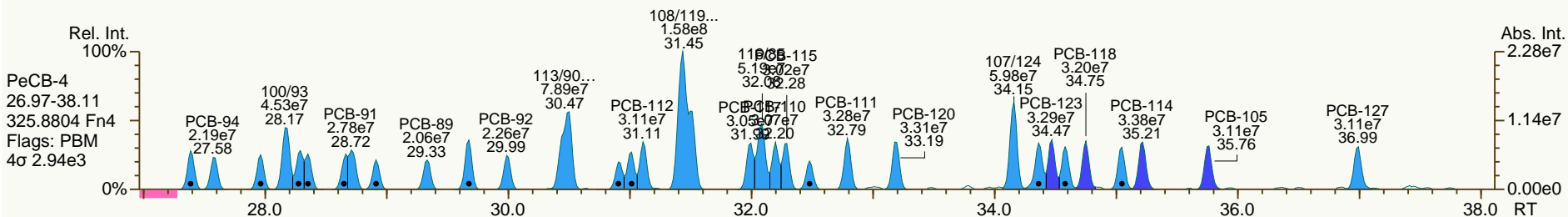
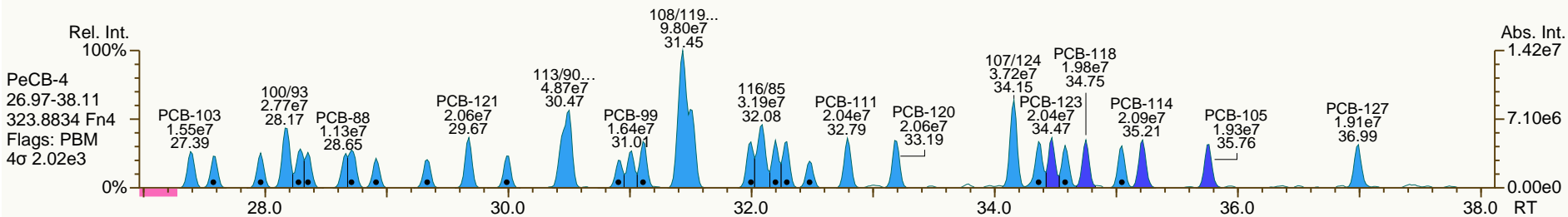
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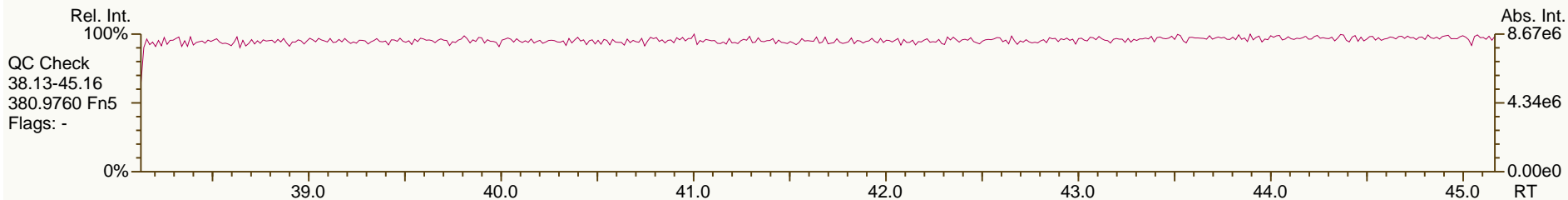
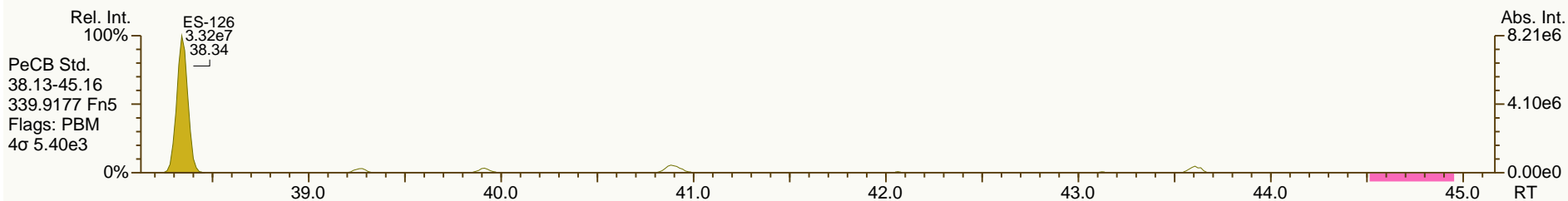
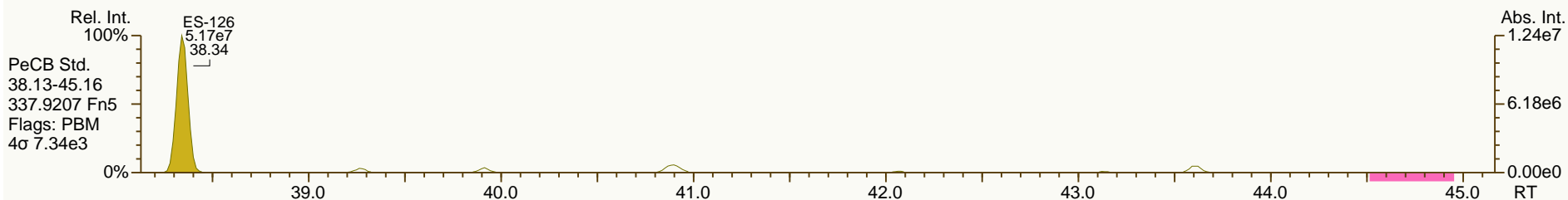
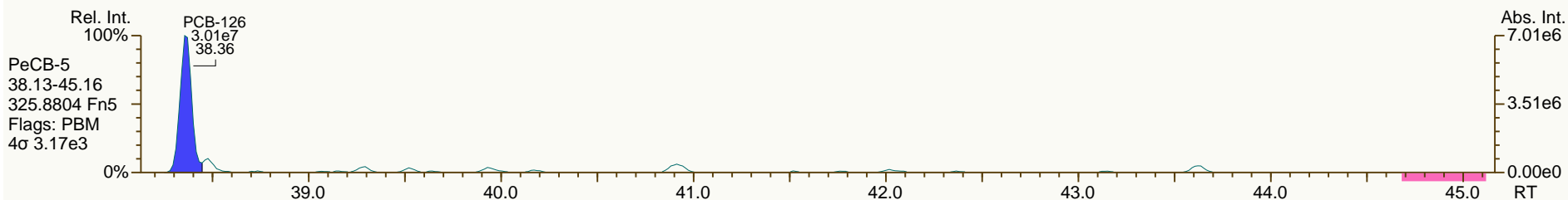
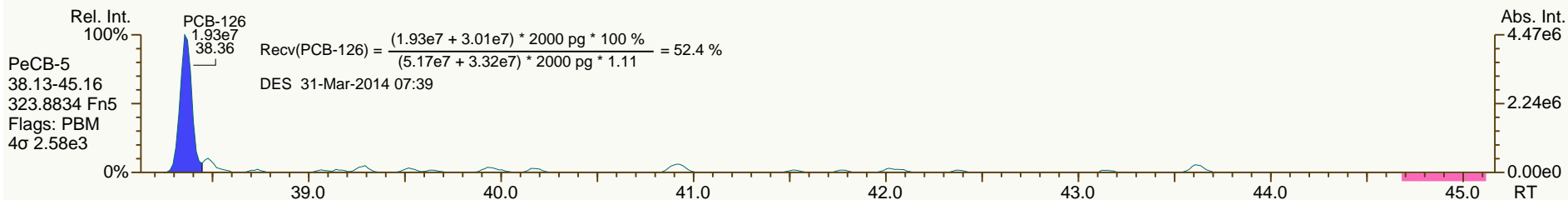
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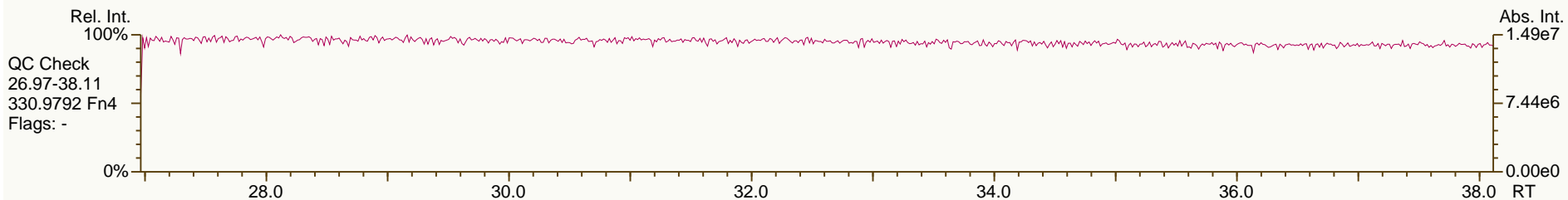
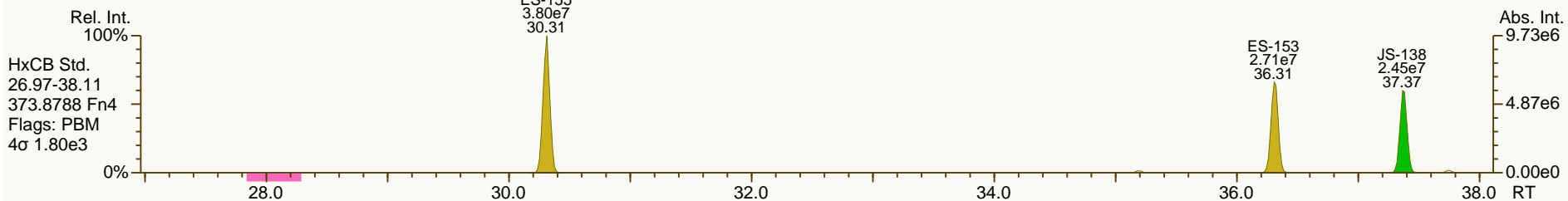
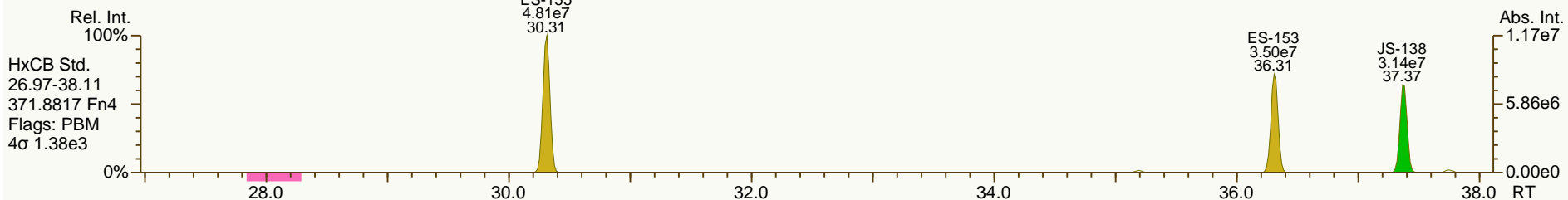
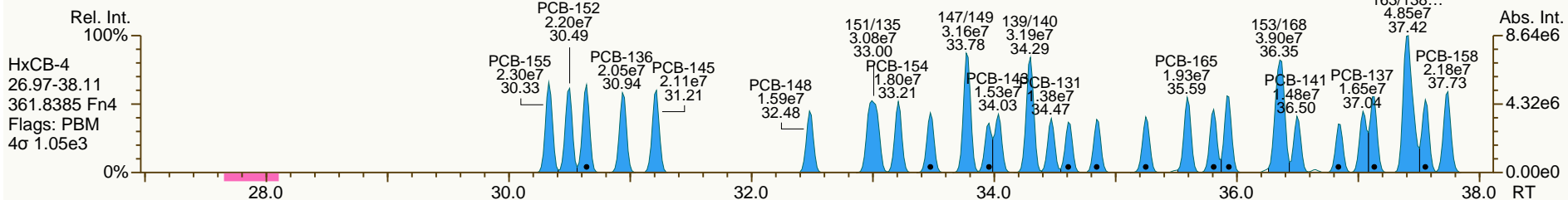
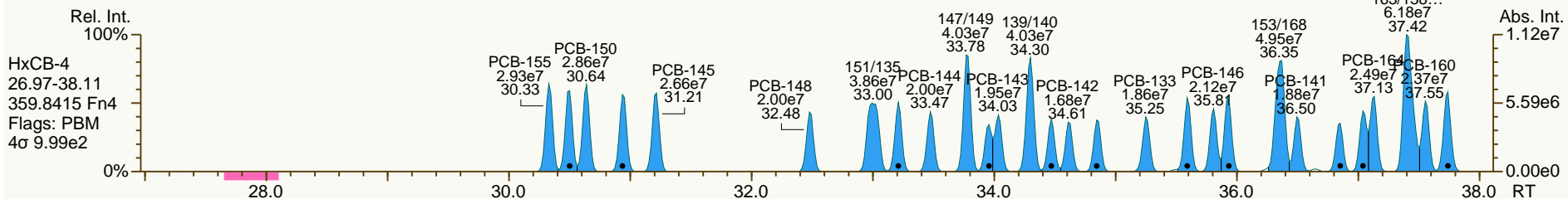
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SGS ID: OPR1\_11903\_PCB-RJ2  
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Sample ID: 0\_11903\_OPR001  
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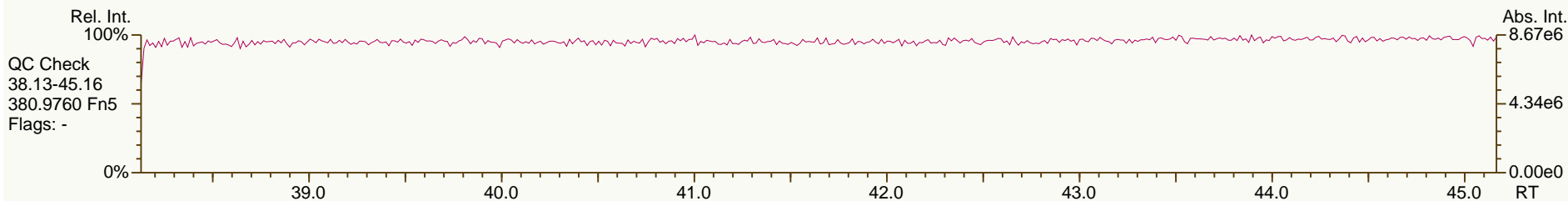
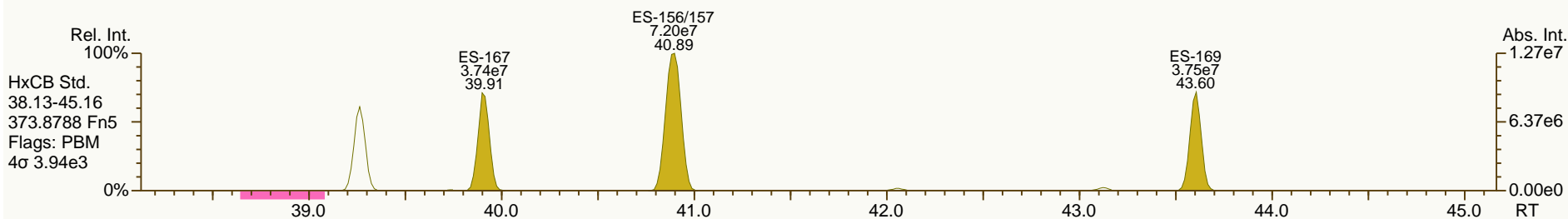
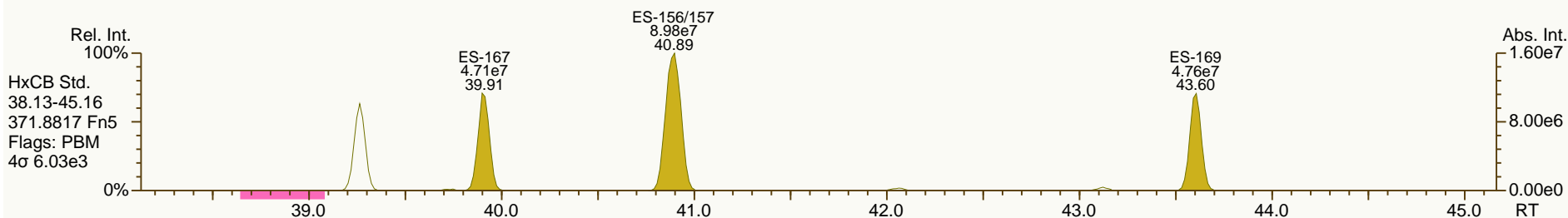
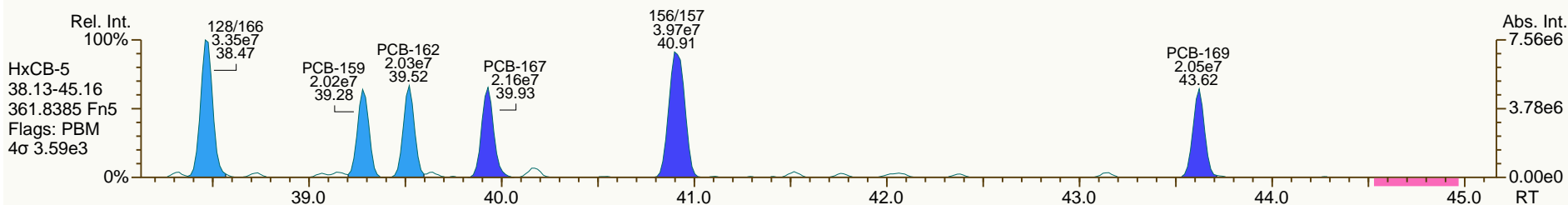
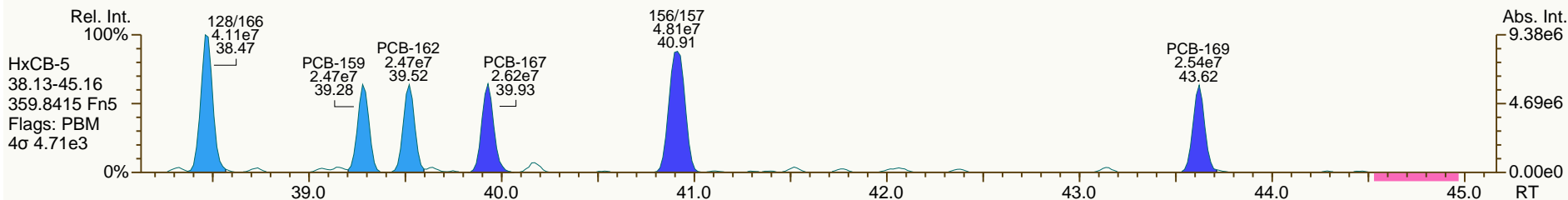
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SGS ID: OPR1\_11903\_PCB-RJ2  
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Sample ID: 0\_11903\_OPR001  
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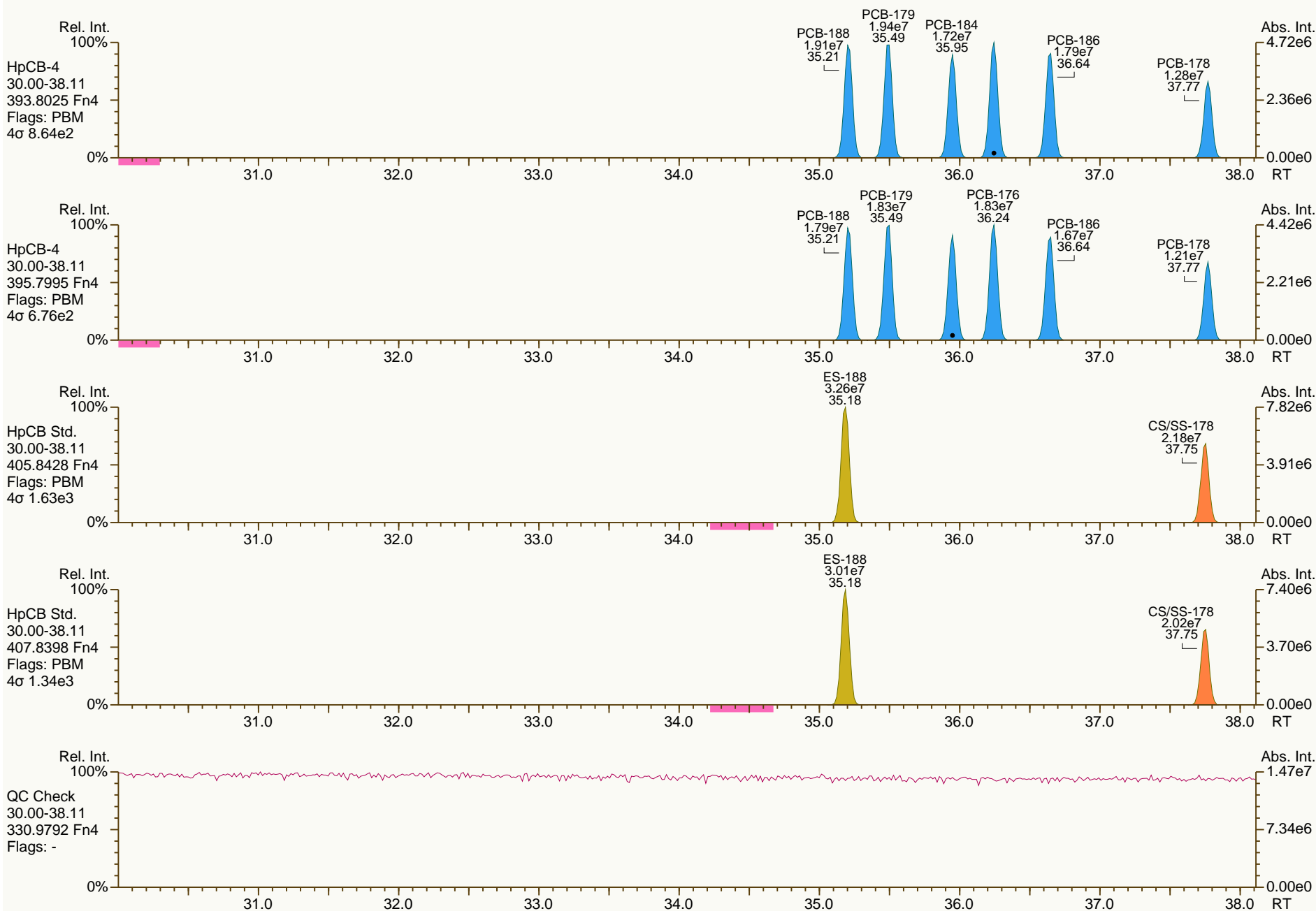




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Sample ID: 0\_11903\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

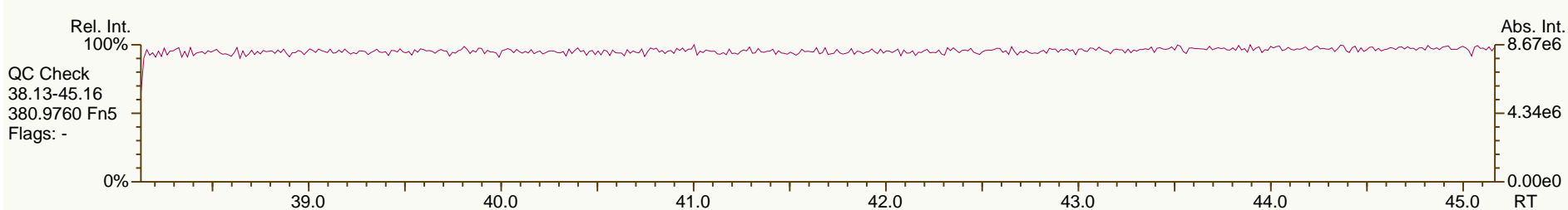
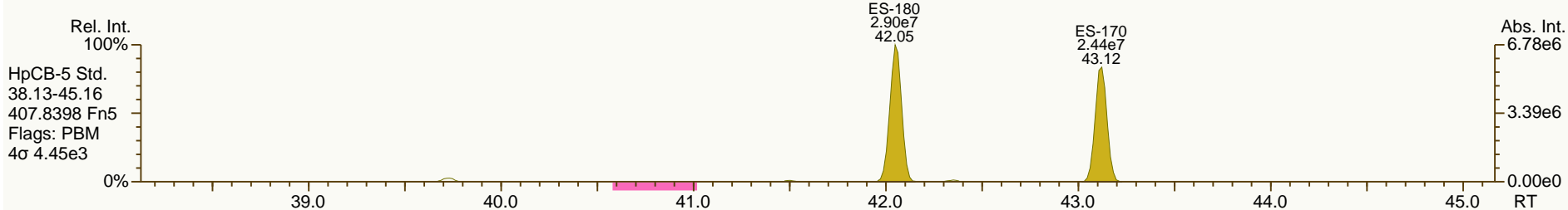
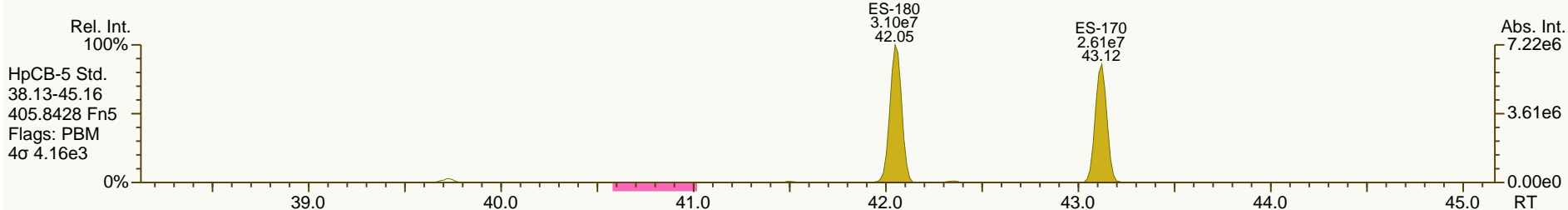
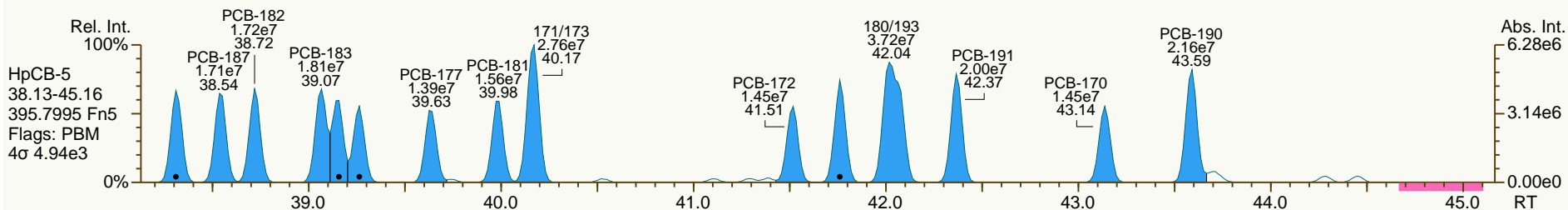
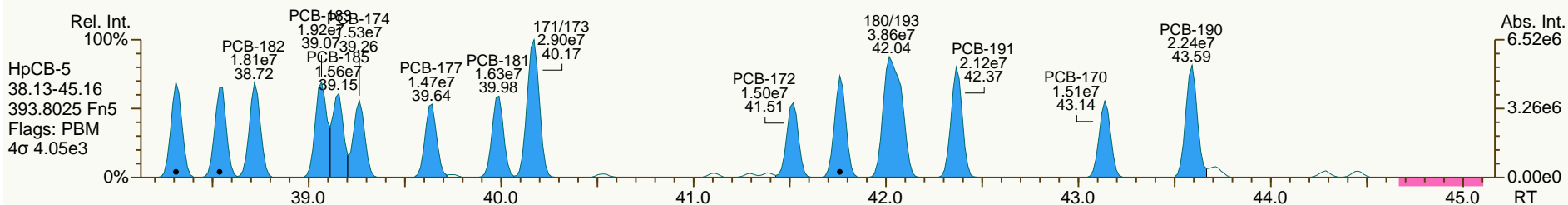
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

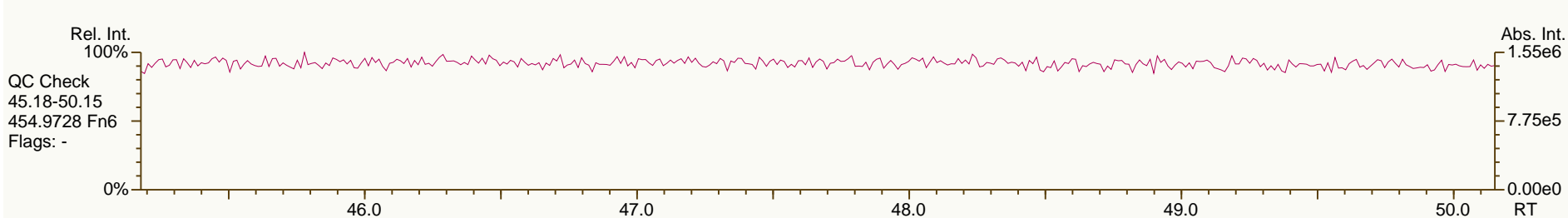
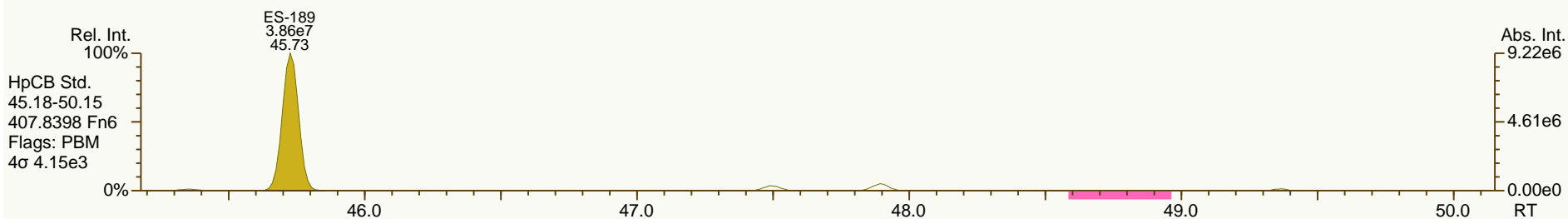
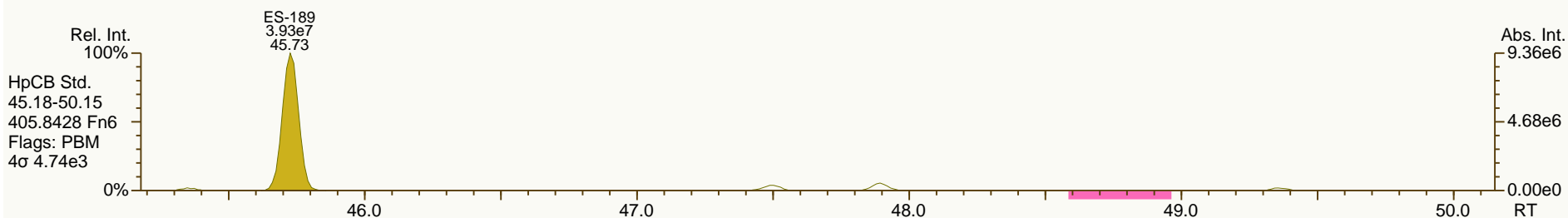
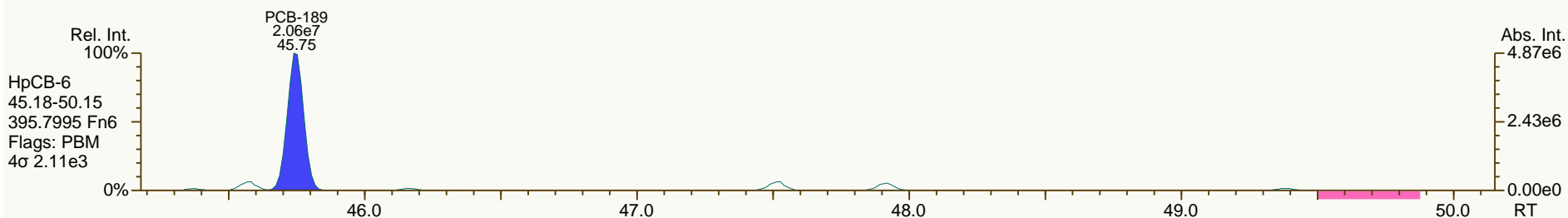
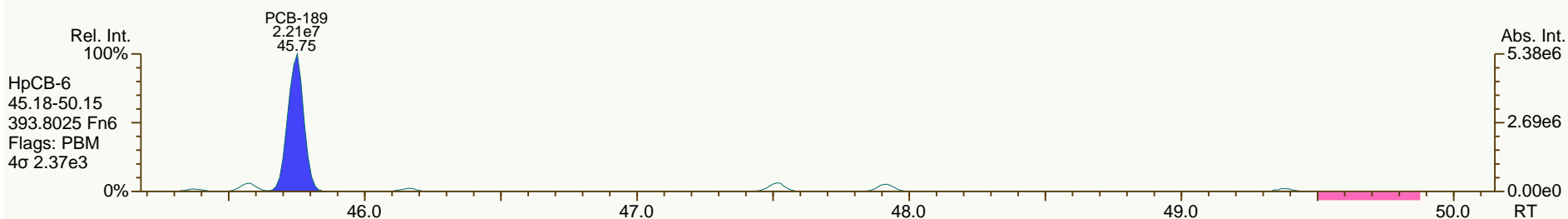
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 User: LKB Datafile: 140328X08



SGS ID: OPR1\_11903\_PCB-RJ2  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

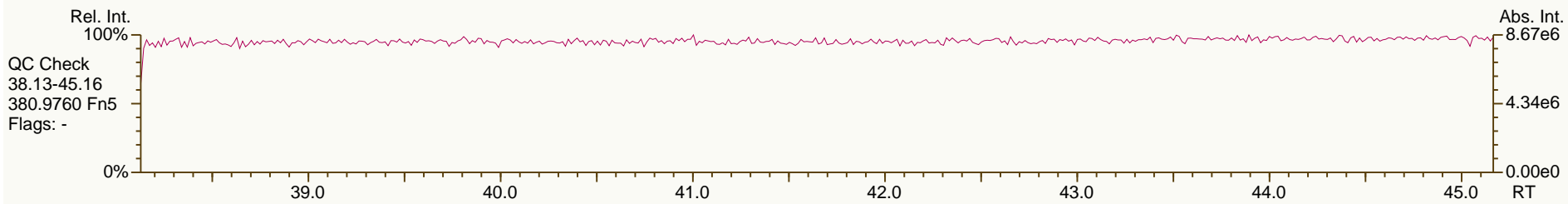
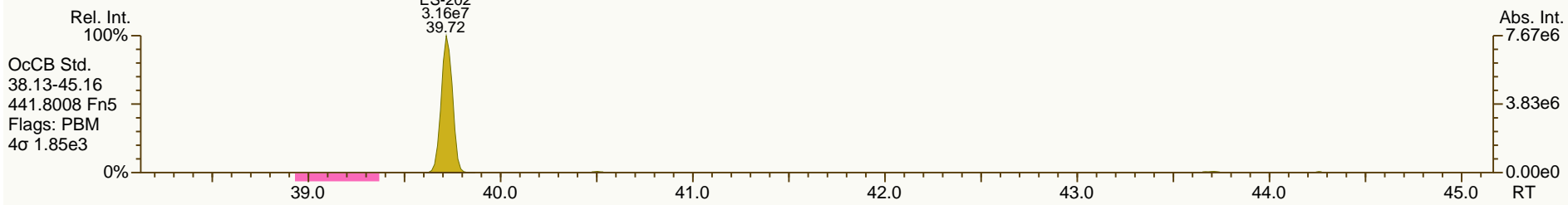
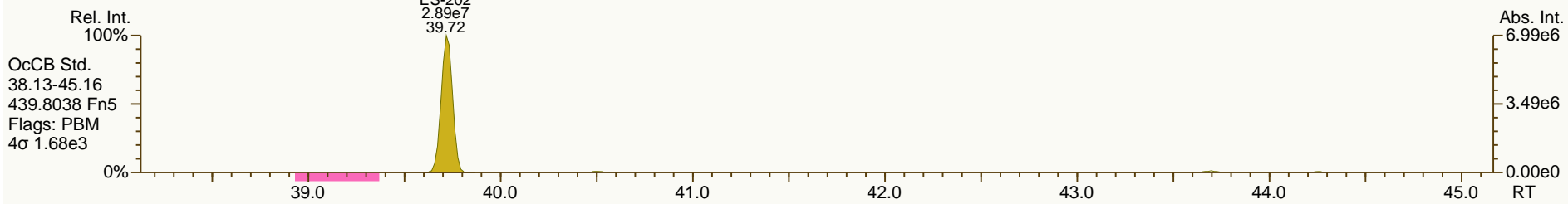
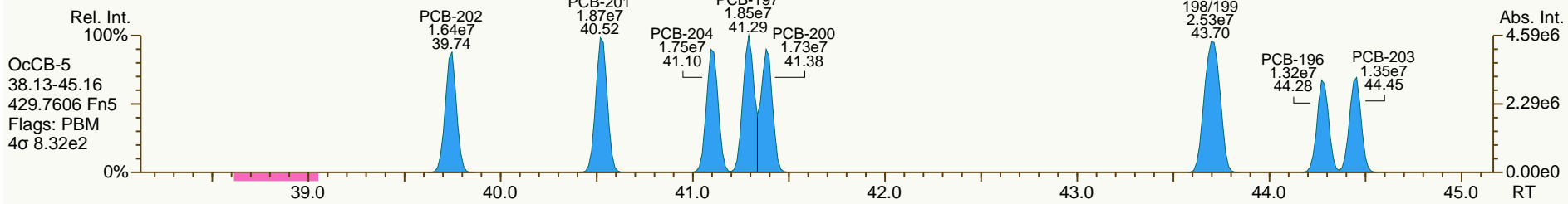
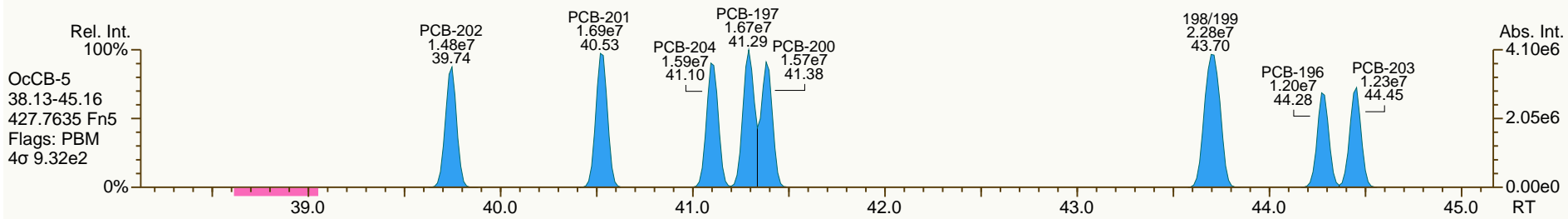
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User: LKB Datafile: 140328X08



SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

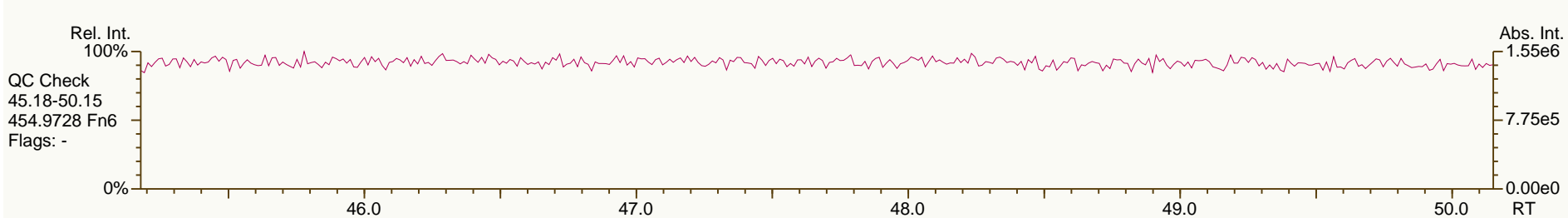
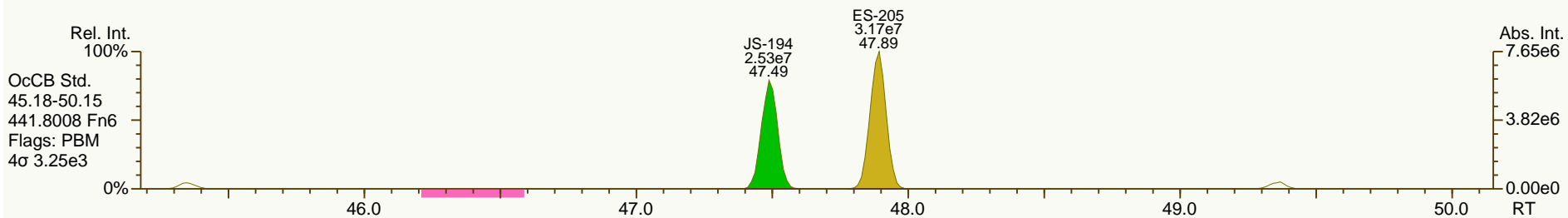
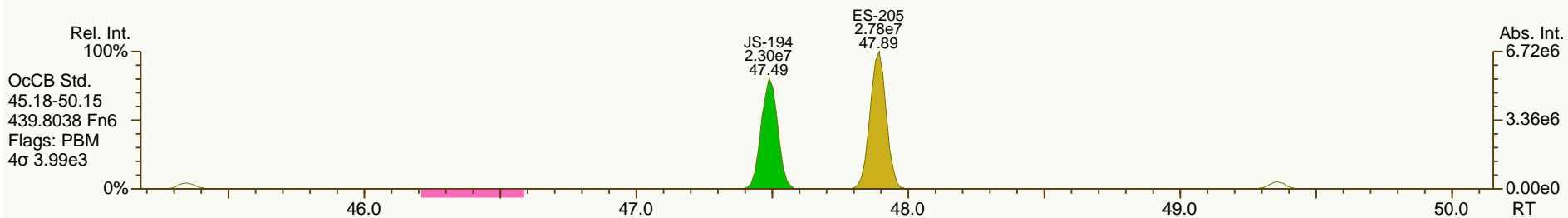
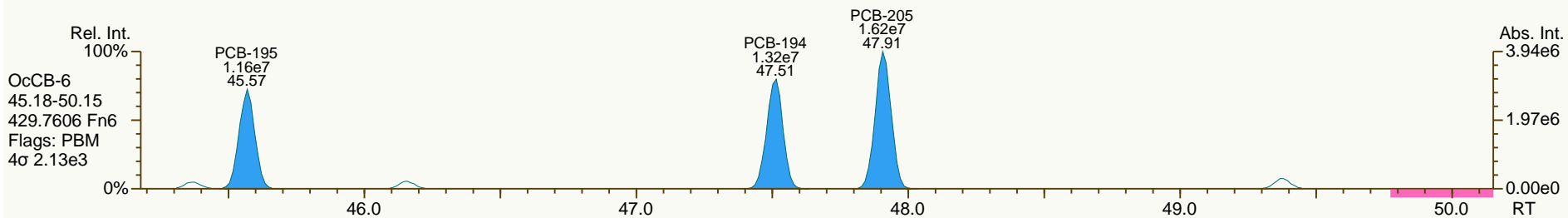
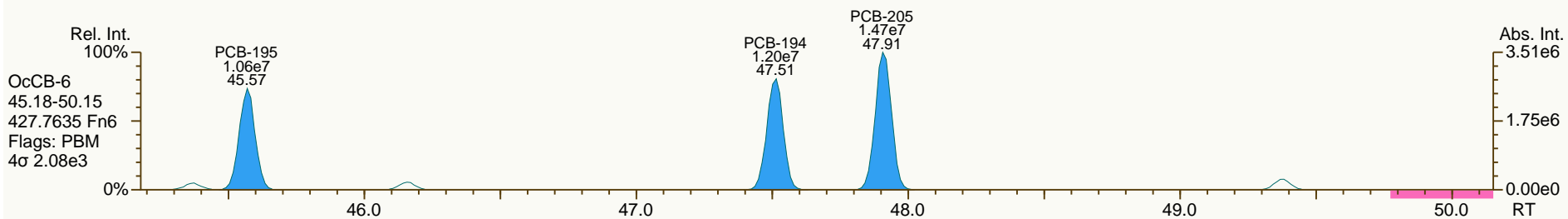
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 User: LKB Datafile: 140328X08



SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

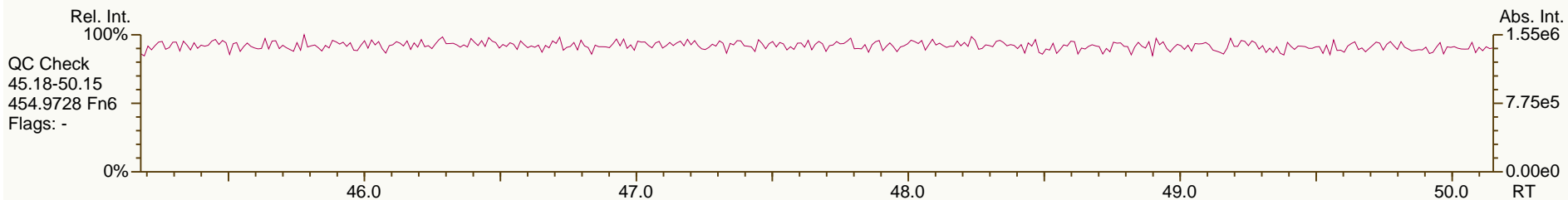
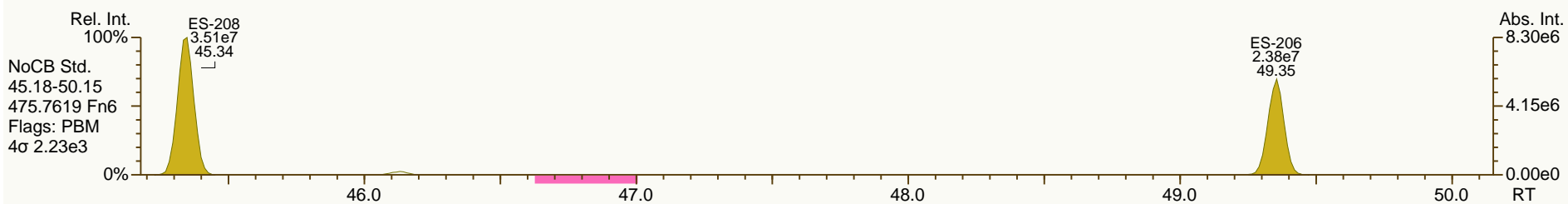
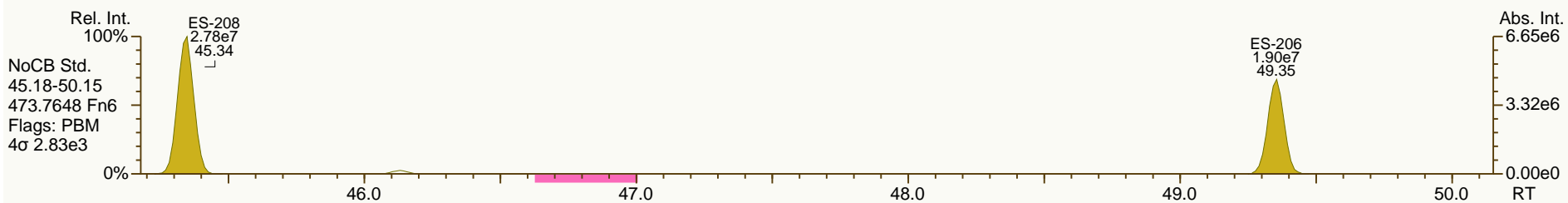
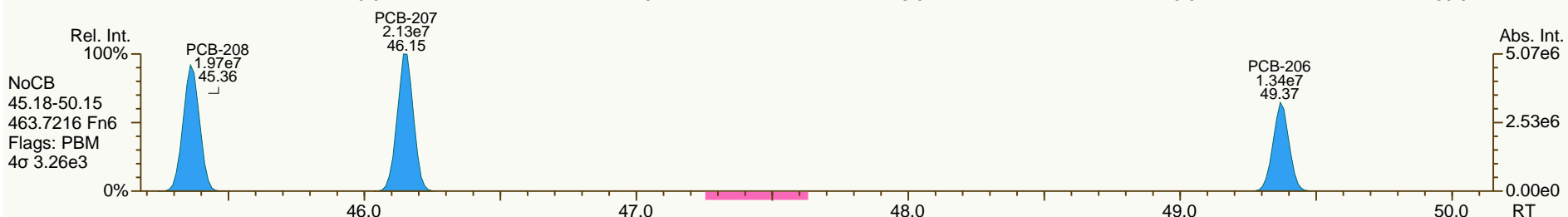
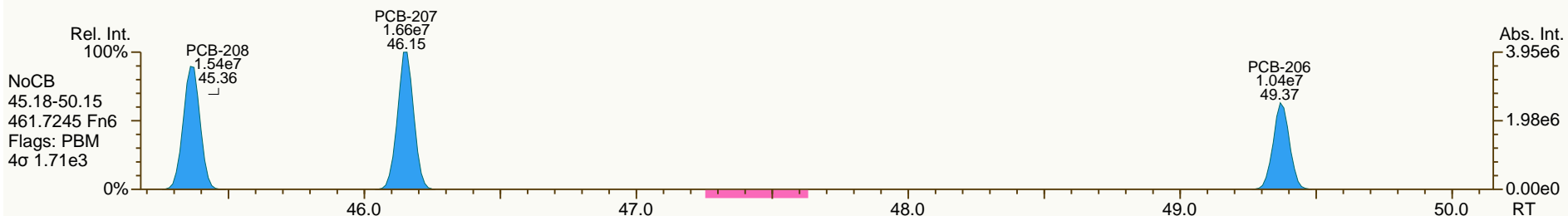
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SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

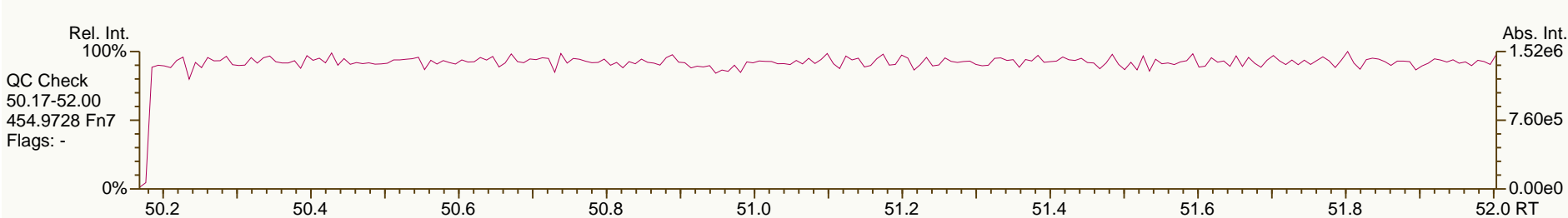
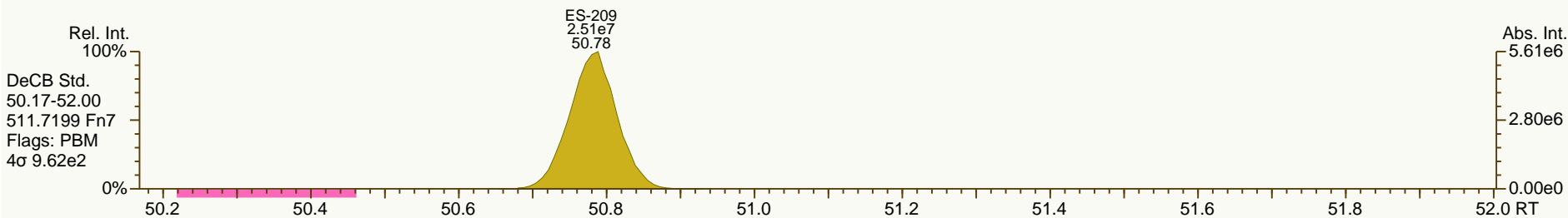
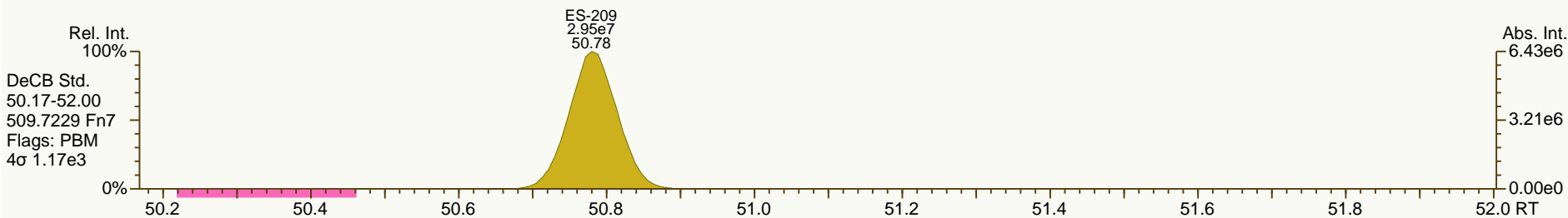
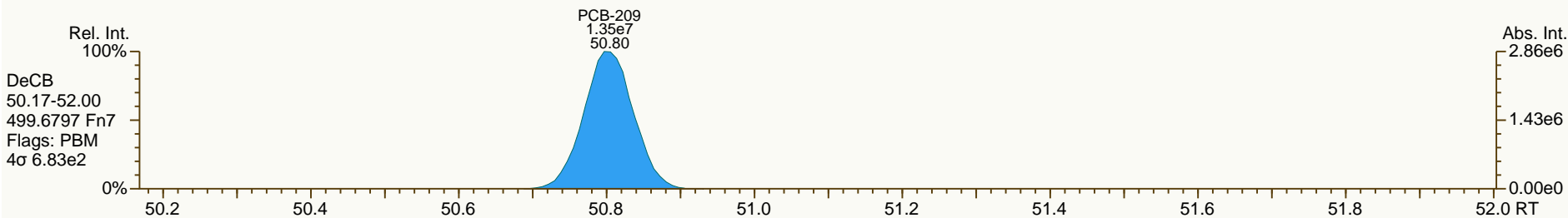
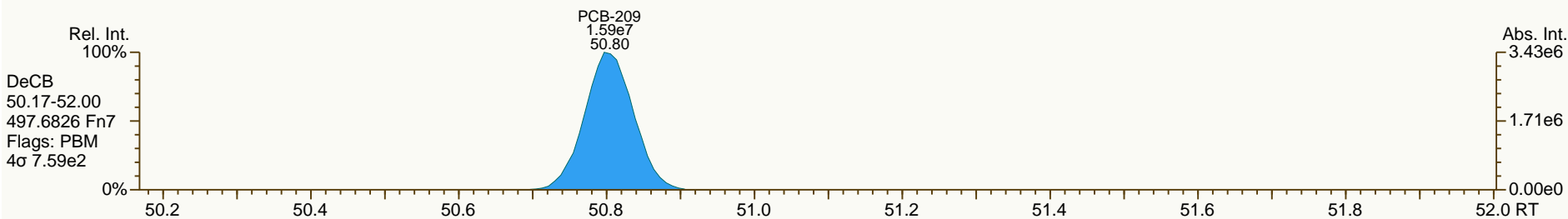
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 User: LKB Datafile: 140328X08



SGS ID: OPR1\_11903\_PCB-RJ2  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11903\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 76

Acq: 28-Mar-2014 17:55:43  
 User: LKB Datafile: 140328X08





10 APRIL 2014

**DELANEY PETERSON  
ANCHOR QEA**

7200 Olive Way, Ste 300  
Seattle WA 98101

t. 206-287-9130  
e. DPeterson@anchorqea.com

**SUBJECT: CERTIFICATE OF RESULTS**

Dear Delaney;

Attached to this narrative are the analytical results for sample(s) submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes information about the project. If applicable, QC annotations below highlight specific analytical observations and assessments made during the sample handling and data interpretation phases.

Results reported relate only to the items tested.

**PROJECT INFORMATION SUMMARY** *(When applicable, see QC Annotations for details)*

Client Project	Patrick Bayou Superfund Ste
SGS Project #	A6528
Analytical Protocol(s)	Method 1668A
No. Samples Submitted	4
Additional QC Sample(s)	0
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
Date Received	20-Mar-2014
Condition Received	good
Temperature upon Receipt (C)	4
Extraction within Holding Time	yes
Analysis within Holding Time	yes



**QC ANNOTATIONS:**

- |    |  |
|----|--|
| 1. | Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project. |
|----|--|

SGS remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at [www.sgs.com/ultratrace](http://www.sgs.com/ultratrace) and click on the 'Email Us' link or go to our survey [here](#). Thank you for choosing SGS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amy Boehm', with a long horizontal stroke extending to the right.

Digitally signed by Amy Boehm  
Date: 2014.04.10 12:36:42 -04'00'

Amy J. Boehm  
Senior Project Manager



## APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. <sup>1</sup>
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. <sup>1</sup>
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



## APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.


## APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.



## SGS CERTIFICATIONS

California	07255CA
Connecticut	PH-0258
Florida (primary NELAP)	E87634
ISO17025	2726.01
Kansas	E-10330
Louisiana	04115
Maryland (DW only)	299
New Jersey	NC100
New York	11685
North Carolina DENR	481
North Carolina DHHS (DW only)	37776
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029
Texas	T104704260-13-5
Utah	NC009192013-3
Virginia (DW only)	00235
Virginia	460214
Washington State	C913
West Virginia	293

Sample Summary				Method 1668A	
Analyte	Method Blank A6528	PB099-1SWMID-140319-N (TOTAL)	PB099-1SWMID-140319-MD (TOTAL)	PB101.1-1SWMID-140319-N (TOTAL)	PB101.1-1SWMID-140319-N (DISSOLVED)
	Conc. pg/L	Conc. pg/L	Conc. pg/L	Conc. pg/L	Conc. pg/L
PCB-77	(1.05)	12.9	14	13.4	2.65
PCB-81	(1.15)	(2.53)	(1.25)	(1.56)	(0.483)
PCB-105	1.59	29	32	32.6	4.55
PCB-114	(0.604)	(1.29)	[2]	[2.02]	[0.442]
PCB-118	[2.96]	63.5	65.1	63.3	10.2
PCB-123	(0.568)	(1.27)	1.94	1.6	(0.25)
PCB-126	(0.871)	(1.64)	(0.872)	(1.17)	(0.367)
PCB-156/157	(0.782)	[3.87]	[3.37]	3.93	0.706
PCB-167	(0.521)	(1.28)	1.5	[1.29]	(0.216)
PCB-169	(0.566)	(1.32)	(0.524)	(0.735)	(0.238)
PCB-189	(0.731)	(1.36)	(0.6)	(0.822)	(0.31)
Total Mono-CBs	(0.865)	25.5	15.3	25.9	20.5
Total Di-CBs	10.2	248	231	176	141
Total Tri-CBs	4.94	1060	1090	877	462
Total Tetra-CBs	13.3	1550	1770	1610	529
Total Penta-CBs	10.6	530	592	619	124
Total Hexa-CBs	9.22	127	135	146	29
Total Hepta-CBs	(0.792)	15.4	25	42	9.02
Total Octa-CBs	(0.758)	(1.51)	5.72	7.56	0.857
Total Nona-CBs	(1.74)	(4.19)	(2.09)	(2.19)	(0.718)
PCB-209	1.01	[2.41]	2.95	3.08	1.18
TEQs (WHO 2005 M/H)					
ND = 0; EMPC = 0	0.0000476	0.00407	0.00442	0.00439	0.000729
ND = 0; EMPC = EMPC	0.000136	0.00418	0.00458	0.00448	0.000742
ND = DL/2; EMPC = 0	0.0524	0.106	0.0561	0.0743	0.0228
ND = DL/2; EMPC = EMPC	0.0524	0.106	0.0563	0.0743	0.0228
ND = DL; EMPC = 0	0.105	0.209	0.108	0.144	0.0448
ND = DL; EMPC = EMPC	0.105	0.209	0.108	0.144	0.0448

Checkcode  
( ) = DL  
[] = EMPC


441-024-FNH

065-928-ZGC

334-515-WYK

388-879-CFL

118-899-GHZ

PCB Recoveries				Method 1668A	
Standard	Method Blank A6528	PB099-1SWMID-140319-N (TOTAL)	PB099-1SWMID-140319-MD (TOTAL)	PB101.1-1SWMID-140319-N (TOTAL)	PB101.1-1SWMID-140319-N (DISSOLVED)
ES PCB-1	65.4	57.4	45.1	37.7	48.1
ES PCB-3	75.3	63.2	55	48.9	62.7
ES PCB-4	93.9	65.7	61.7	59.8	74.9
ES PCB-15	100	88.4	92.6	90.4	99.9
ES PCB-19	96.6	68.8	67.8	70	81.1
ES PCB-37	87.3	91.2	92.6	85.2	89.4
ES PCB-54	104	91.3	94.2	92.7	100
ES PCB-77	94	98.5	97.5	93.7	96.9
ES PCB-81	90.9	97.8	94.3	91.2	94.3
ES PCB-104	122	109	122	115	123
ES PCB-105	102	103	115	103	106
ES PCB-114	99.1	99	110	99.8	102
ES PCB-118	102	103	116	103	106
ES PCB-123	100	102	111	99.8	103
ES PCB-126	103	112	123	103	109
ES PCB-153	95.6	93.6	99.9	100	99.6
ES PCB-155	95.5	87.2	87.9	91.9	94.3
ES PCB-156/157	78.4	82.7	88.1	79.5	81.5
ES PCB-167	78.4	80	87.6	78.2	81.2
ES PCB-169	78.5	87.6	90.1	79.2	83
ES PCB-170	97.4	89.5	98	94	100
ES PCB-180	101	89.2	97.4	95.5	101
ES PCB-188	115	108	114	118	121
ES PCB-189	98.7	97.7	107	97.3	102
ES PCB-202	103	97.7	104	107	109
ES PCB-205	95	93.4	96.7	93.8	98.6
ES PCB-206	104	96.6	98.3	102	105
ES PCB-208	108	101	109	107	113
ES PCB-209	97.4	93.3	94.1	96.2	101

Checkcode

441-024-FNH

065-928-ZGC

334-515-WYK

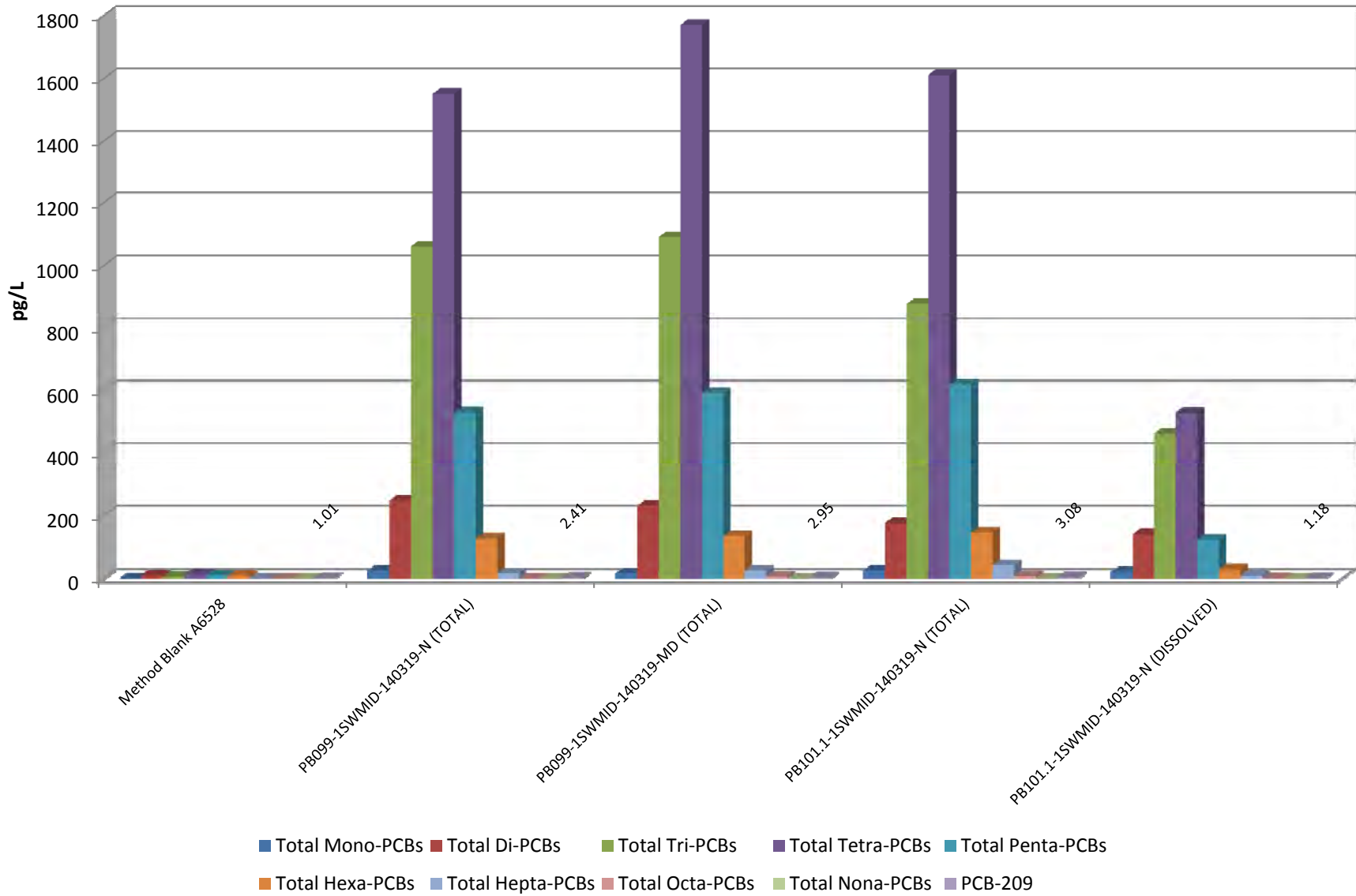
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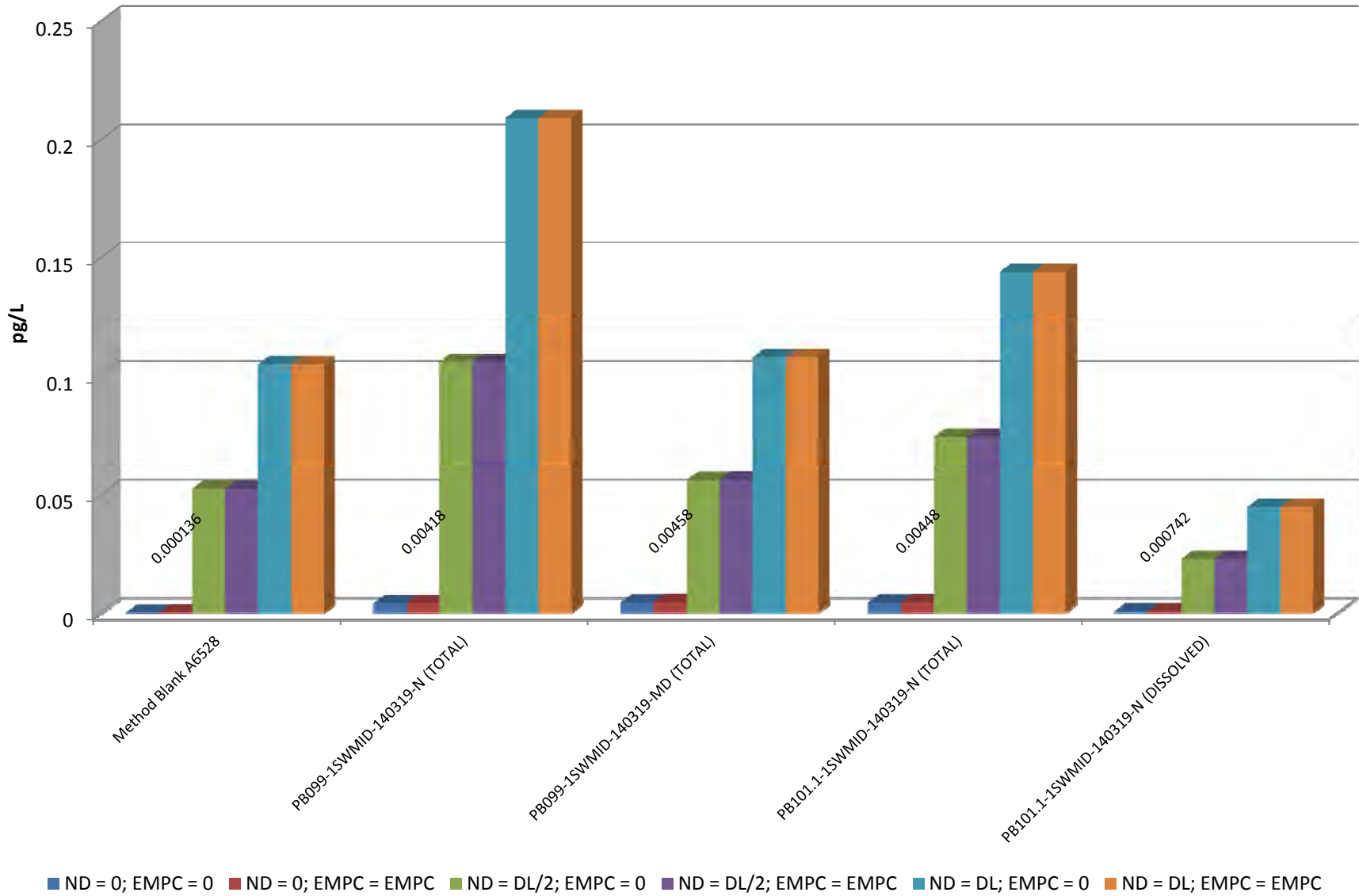
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### PCB Homologues Project ID: Patrick Bayou A6528

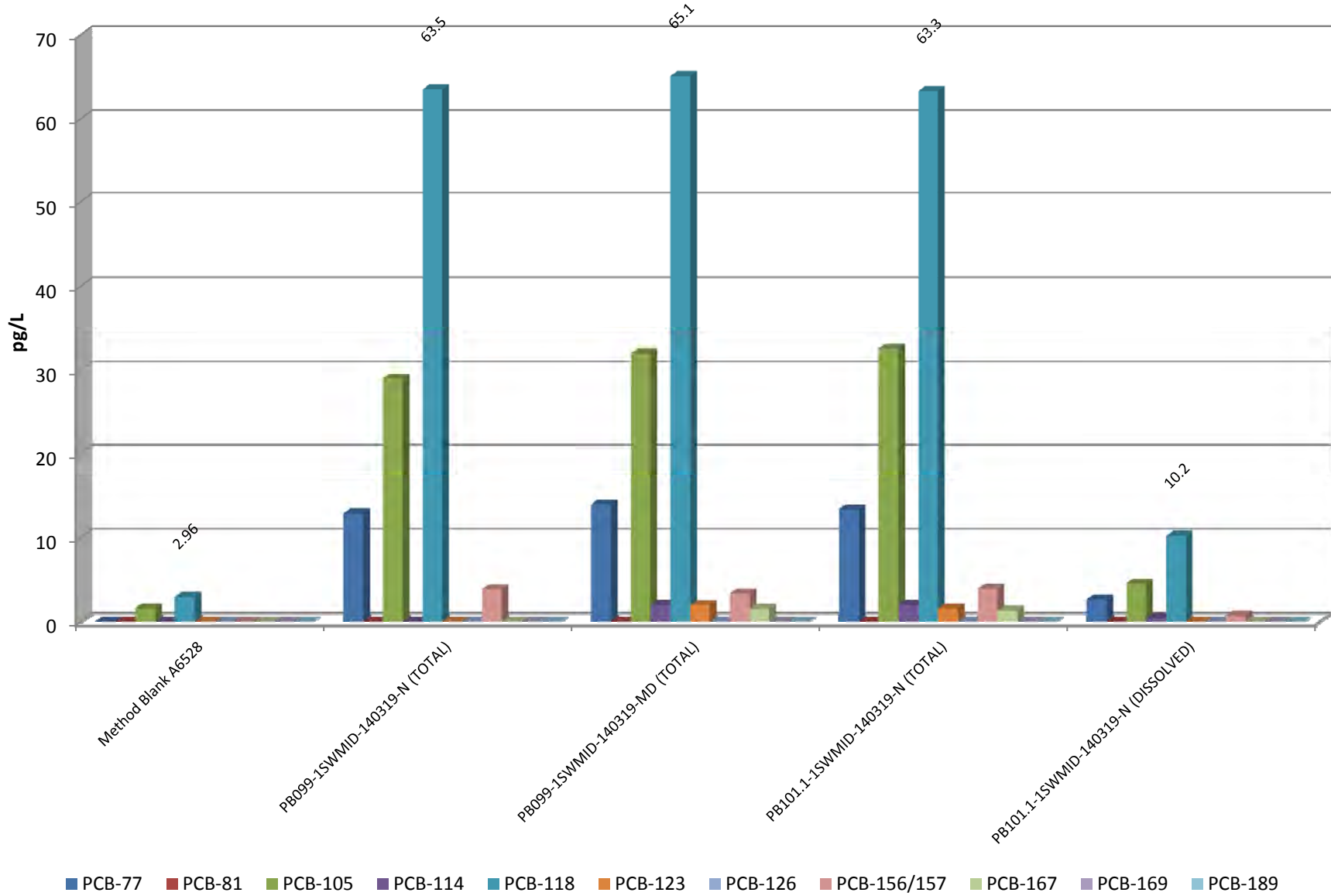


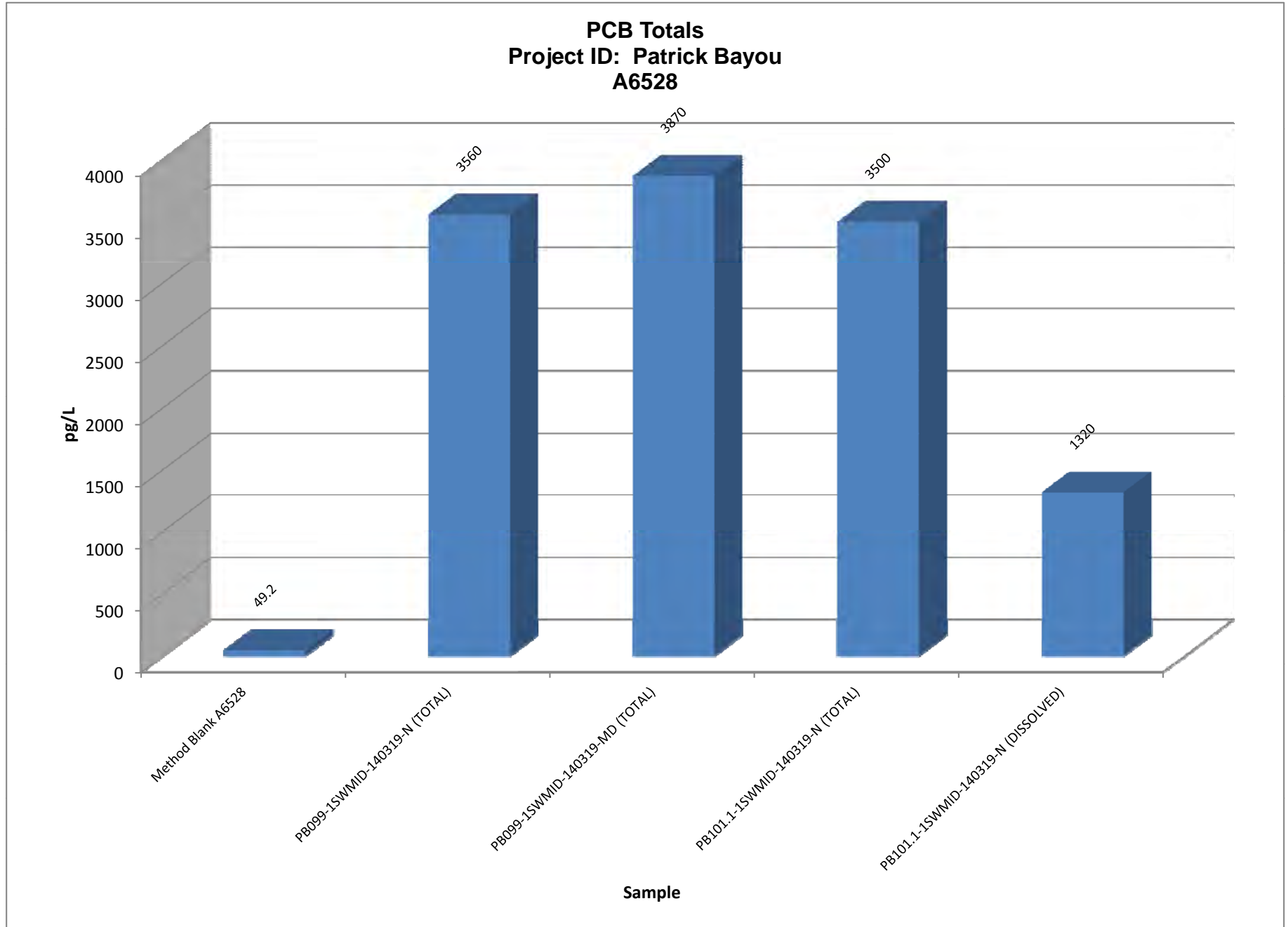
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**Project ID: Patrick Bayou**  
**A6528**

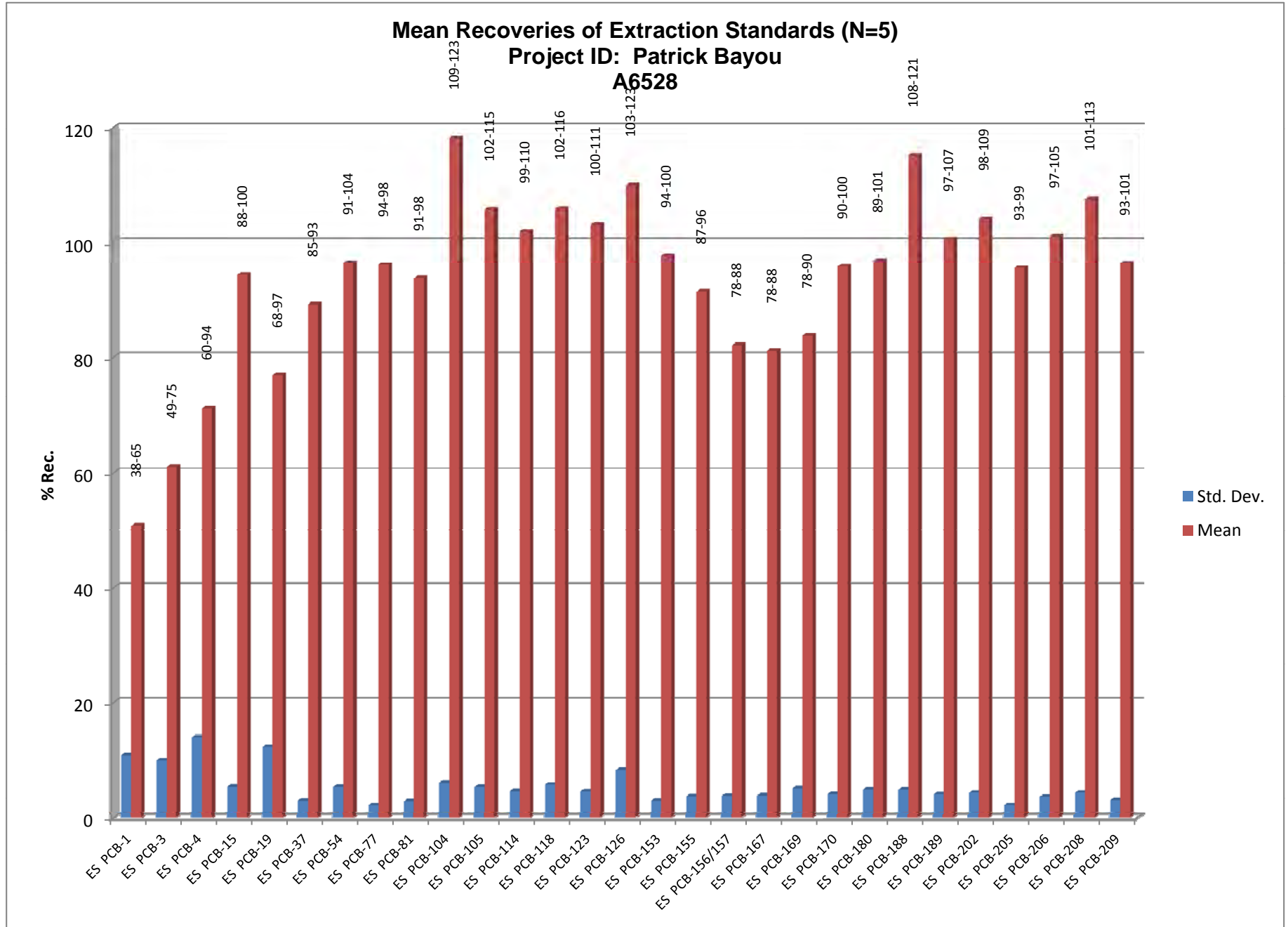




**PCB WHO**  
**Project ID: Patrick Bayou**  
**A6528**







**Sample ID: PB099-1SWMID-140319-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6528	Date Received:	20-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	1.22 L	Sample ID:	A6528_11906_PCB_001	Date Extracted:	21-Mar-2014
Date Collected:	19-Mar-2014	pH	7	QC Batch No.:	11906	Date Analyzed:	02-Apr-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	12.9				ES PCB-1	57.4	
PCB-81 344'5'-TeCB	ND	2.53			ES PCB-3	63.2	
PCB-105 233'44'-PeCB	29				ES PCB-4	65.7	
PCB-114 2344'5'-PeCB	ND	1.29			ES PCB-15	88.4	
PCB-118 23'44'5'-PeCB	63.5				ES PCB-19	68.8	
PCB-123 23'44'5'-PeCB	ND	1.27			ES PCB-37	91.2	
PCB-126 33'44'5'-PeCB	ND	1.64			ES PCB-54	91.3	
PCB-156/157 233'44'5'/233'44'5'-HxCB	EMPC		3.87	J C	ES PCB-77	98.5	
PCB-167 23'44'55'-HxCB	ND	1.28			ES PCB-81	97.8	
PCB-169 33'44'55'-HxCB	ND	1.32			ES PCB-104	109	
PCB-189 233'44'55'-HpCB	ND	1.36			ES PCB-105	103	
					ES PCB-114	99	
<b>TEQs (WHO M/H)</b>					ES PCB-118	103	
					ES PCB-123	102	
ND = 0	0.00407		0.00418		ES PCB-126	112	
ND = 0.5 x DL	0.106		0.106		ES PCB-153	93.6	
ND = DL	0.209		0.209		ES PCB-155	87.2	
					ES PCB-156/157	82.7	
<b>Totals</b>					ES PCB-167	80	
Mono-CBs	25.5		29.2		ES PCB-169	87.6	
Di-CBs	248				ES PCB-170	89.5	
Tri-CBs	1,060		1,070		ES PCB-180	89.2	
Tetra-CBs	1,550		1,550		ES PCB-188	108	
Penta-CBs	530		540		ES PCB-189	97.7	
Hexa-CBs	127		131		ES PCB-202	97.7	
Hepta-CBs	15.4		29.6		ES PCB-205	93.4	
Octa-CBs	ND	1.51			ES PCB-206	96.6	
Nona-CBs	ND	4.19			ES PCB-208	101	
Deca-CB	EMPC		2.41	J B	ES PCB-209	93.3	
					CS PCB-28	94.2	
Total PCB (Mono-Deca)	3,560		3,610		CS PCB-111	101	
					CS PCB-178	110	

Checkcode: 065-928-ZGC


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Report Created: 06-Apr-2014 16:18 Analyst: CM



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USA

T: 910 794-1613

Sample ID: PB099-1SWMID-140319-N (TOTAL)						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6528			Date Received: 20-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 1.22 L			Sample ID: A6528_11906_PCB_001			Date Extracted: 21-Mar-2014								
Date Collected: 19-Mar-2014			pH: 7			QC Batch No.: 11906			Date Analyzed: 02-Apr-2014								
			Units: pg/L			Checkcode: 065-928-ZGC			Time Analyzed: 07:45:18								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	16.7		PCB-19	46.1		PCB-54	(1.93)		PCB-72	(2.27)							
PCB-2	[3.71]	J EMPC	PCB-30/18	201	C	PCB-50/53	52.4	C	PCB-68	26.6							
PCB-3	8.82		PCB-17	87.9		PCB-45	33.4		PCB-57	(2.37)							
			PCB-27	[13]	EMPC	PCB-51	41.1		PCB-58	(2.33)							
<b>Conc.</b>	25.5		PCB-24	(3.51)		PCB-46	18.4		PCB-67	[3.45]	J EMPC						
<b>EMPC</b>	29.2		PCB-16	70.6		PCB-52	256		PCB-63	6.86	J						
			PCB-32	90.7		PCB-73	(1.71)		PCB-61/70/74/76	203	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(3.98)		PCB-43	(2.91)		PCB-66	131							
PCB-4	92.3		PCB-23	(3.93)		PCB-69/49	139	C	PCB-55	(2.45)							
PCB-10	(5.41)		PCB-26/29	53.4	C	PCB-48	30.2		PCB-56	69.4							
PCB-9	(4.4)		PCB-25	62.1		PCB-44/47/65	229	C	PCB-60	27.9							
PCB-7	(3.84)		PCB-31	162		PCB-59/62/75	16.6	J C	PCB-80	(2.09)							
PCB-6	53		PCB-28/20	181	C	PCB-42	59.7		PCB-79	(2.02)							
PCB-5	(4.09)		PCB-21/33	33.7	C	PCB-41	10.1		PCB-78	(2.52)							
PCB-8	39		PCB-22	48.7		PCB-71/40	102	C	PCB-81	(2.53)							
PCB-14	(3.46)		PCB-36	(3.67)		PCB-64	81.6		PCB-77	12.9							
PCB-11	23	B	PCB-39	(3.67)													
PCB-13/12	17.4	C	PCB-38	(4.08)													
PCB-15	23.5		PCB-35	(4.24)													
			PCB-37	23.7													
<b>Conc.</b>	248		<b>Conc.</b>	1,060					<b>Conc.</b>	1,550							
<b>EMPC</b>	248		<b>EMPC</b>	1,070					<b>EMPC</b>	1,550							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						1,340			1,350		
						Tetra-Hexa						2,210			2,220		
						Hepta-Deca						15.4			32		
						Mono-Deca			3,560			3,610					

Sample ID: PB099-1SWMID-140319-N (TOTAL)						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(1.16)		PCB-108/119/86/97/125/87	62.3	C	PCB-155	(1.04)		PCB-165	(1.32)	
PCB-96	[2.57]	J EMPC	PCB-117	[2.46]	J EMPC	PCB-152	(1.21)		PCB-146	4.71	J B
PCB-103	(1.6)		PCB-116/85	17.3	C	PCB-150	(1.17)		PCB-161	(1.24)	
PCB-94	(1.91)		PCB-110	92.3		PCB-136	4.98	J B	PCB-153/168	23.5	B C
PCB-95	66.4		PCB-115	(1.3)		PCB-145	(1.25)		PCB-141	5.15	J
PCB-100/93	(1.76)	C	PCB-82	15		PCB-148	(1.59)		PCB-130	(1.94)	
PCB-102	4.44	J	PCB-111	(1.25)		PCB-151/135	10.1	J B C	PCB-137	(1.53)	
PCB-98	(1.73)		PCB-120	(1.24)		PCB-154	(1.4)		PCB-164	(1.26)	
PCB-88	(1.9)		PCB-107/124	(1.38)	C	PCB-144	(1.6)		PCB-163/138/129	36.2	B C
PCB-91	17.3		PCB-109	(1.2)		PCB-147/149	22.5	B C	PCB-160	(1.35)	
PCB-84	31.5		PCB-123	(1.27)		PCB-134	(2.22)		PCB-158	3.77	J
PCB-89	(1.99)		PCB-106	(1.38)		PCB-143	(1.61)		PCB-128/166	5.47	J C
PCB-121	(1.25)		PCB-118	63.5		PCB-139/140	(1.57)	C	PCB-159	(1.39)	
PCB-92	15.6		PCB-122	(1.54)		PCB-131	(1.87)		PCB-162	(1.37)	
PCB-113/90/101	69.9	C	PCB-114	(1.29)		PCB-142	(1.9)		PCB-167	(1.28)	
PCB-83	[4.19]	J EMPC	PCB-105	29		PCB-132	10.8	B	PCB-156/157	[3.87]	J EMPC C
PCB-99	45.9		PCB-127	(1.48)		PCB-133	(1.7)		PCB-169	(1.32)	
PCB-112	(1.31)		PCB-126	(1.64)							
			<b>Conc.</b>	530					<b>Conc.</b>	127	
			<b>EMPC</b>	540					<b>EMPC</b>	131	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(1.11)		PCB-174	[3.84]	J EMPC	PCB-202	(1.6)		PCB-208	(3.32)	
PCB-179	2.54	J	PCB-177	(1.72)		PCB-201	(1.51)		PCB-207	(3.26)	
PCB-184	(1.37)		PCB-181	(1.49)		PCB-204	(1.6)		PCB-206	(5.05)	
PCB-176	(1.24)		PCB-171/173	(1.69)	C	PCB-197	(1.5)				
PCB-186	(1.33)		PCB-172	(1.64)		PCB-200	(1.58)		<b>Conc.</b>	0	
PCB-178	(1.87)		PCB-192	(1.24)		PCB-198/199	(2.35)	C	<b>EMPC</b>	0	
PCB-175	(1.49)		PCB-180/193	10.2	J C	PCB-196	(2.23)				
PCB-187	[6.57]	J EMPC	PCB-191	(1.15)		PCB-203	(2.18)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(1.33)		PCB-170	[3.79]	J EMPC	PCB-195	(2.06)		PCB-209	[2.41]	J B EMPC
PCB-183	2.72	J	PCB-190	(1.09)		PCB-194	(1.85)				
PCB-185	(1.54)		PCB-189	(1.36)		PCB-205	(1.42)				
			<b>Conc.</b>	15.4		<b>Conc.</b>	0				
			<b>EMPC</b>	29.6		<b>EMPC</b>	0				

**Sample ID: PB099-1SWMID-140319-MD (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6528	Date Received:	20-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.97 L	Sample ID:	A6528_11906_PCB_002	Date Extracted:	21-Mar-2014
Date Collected:	19-Mar-2014	pH	7	QC Batch No.:	11906	Date Analyzed:	02-Apr-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	14				ES PCB-1	45.1	
PCB-81 344'5'-TeCB	ND	1.25			ES PCB-3	55	
PCB-105 233'44'-PeCB	32				ES PCB-4	61.7	
PCB-114 2344'5'-PeCB	EMPC		2	J	ES PCB-15	92.6	
PCB-118 23'44'5'-PeCB	65.1				ES PCB-19	67.8	
PCB-123 23'44'5'-PeCB	1.94			J	ES PCB-37	92.6	
PCB-126 33'44'5'-PeCB	ND	0.872			ES PCB-54	94.2	
PCB-156/157 233'44'5'/233'44'5'-HxCB	EMPC		3.37	J C	ES PCB-77	97.5	
PCB-167 23'44'55'-HxCB	1.5			J	ES PCB-81	94.3	
PCB-169 33'44'55'-HxCB	ND	0.524			ES PCB-104	122	
PCB-189 233'44'55'-HpCB	ND	0.6			ES PCB-105	115	
					ES PCB-114	110	
<b>TEQs (WHO M/H)</b>					ES PCB-118	116	
					ES PCB-123	111	
ND = 0	0.00442		0.00458		ES PCB-126	123	
ND = 0.5 x DL	0.0561		0.0563		ES PCB-153	99.9	
ND = DL	0.108		0.108		ES PCB-155	87.9	
					ES PCB-156/157	88.1	
<b>Totals</b>					ES PCB-167	87.6	
Mono-CBs	15.3		20.4		ES PCB-169	90.1	
Di-CBs	231				ES PCB-170	98	
Tri-CBs	1,090				ES PCB-180	97.4	
Tetra-CBs	1,770		1,770		ES PCB-188	114	
Penta-CBs	592		598		ES PCB-189	107	
Hexa-CBs	135		148		ES PCB-202	104	
Hepta-CBs	25		45.1		ES PCB-205	96.7	
Octa-CBs	5.72		13.9		ES PCB-206	98.3	
Nona-CBs	ND	2.09			ES PCB-208	109	
Deca-CB	2.95			J B	ES PCB-209	94.1	
					CS PCB-28	103	
Total PCB (Mono-Deca)	3,870		3,920		CS PCB-111	115	
					CS PCB-178	123	

Checkcode: 334-515-WYK


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Sample ID: PB099-1SWMID-140319-MD (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6528			Date Received: 20-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.97 L			Sample ID: A6528_11906_PCB_002			Date Extracted: 21-Mar-2014								
Date Collected: 19-Mar-2014			pH: 7			QC Batch No.: 11906			Date Analyzed: 02-Apr-2014								
			Units: pg/L			Checkcode: 334-515-WYK			Time Analyzed: 08:40:36								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	13.1		PCB-19	45		PCB-54	[1.67]	J EMPC	PCB-72	1.67	J						
PCB-2	2.26	J	PCB-30/18	203	C	PCB-50/53	57.7	C	PCB-68	31.6							
PCB-3	[5.06]	J EMPC	PCB-17	95.3		PCB-45	36.6		PCB-57	1.26	J						
			PCB-27	15.8		PCB-51	53.6		PCB-58	(1.15)							
<b>Conc.</b>	15.3		PCB-24	(1.91)		PCB-46	21.2		PCB-67	4.53	J						
<b>EMPC</b>	20.4		PCB-16	68.3		PCB-52	295		PCB-63	7.63	J						
			PCB-32	94.6		PCB-73	(0.835)		PCB-61/70/74/76	229	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.64)		PCB-43	11.5		PCB-66	147							
PCB-4	85.4		PCB-23	(1.62)		PCB-69/49	156	C	PCB-55	(1.21)							
PCB-10	2.84	J	PCB-26/29	51.7	C	PCB-48	34.9		PCB-56	73.6							
PCB-9	2.69	J	PCB-25	62.3		PCB-44/47/65	264	C	PCB-60	27.8							
PCB-7	1.96	J	PCB-31	161		PCB-59/62/75	18.4	J C	PCB-80	(1.03)							
PCB-6	44.7		PCB-28/20	182	C	PCB-42	67.7		PCB-79	(0.998)							
PCB-5	(1.5)		PCB-21/33	33.3	C	PCB-41	12.4		PCB-78	(1.24)							
PCB-8	32.8		PCB-22	49.8		PCB-71/40	114	C	PCB-81	(1.25)							
PCB-14	(1.26)		PCB-36	(1.51)		PCB-64	90.2		PCB-77	14							
PCB-11	23.5	B	PCB-39	(1.51)													
PCB-13/12	15.4	J C	PCB-38	(1.68)													
PCB-15	21.7		PCB-35	(1.74)													
			PCB-37	25.1													
<b>Conc.</b>	231		<b>Conc.</b>	1,090					<b>Conc.</b>	1,770							
<b>EMPC</b>	231		<b>EMPC</b>	1,090					<b>EMPC</b>	1,770							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						1,330			1,340		
						Tetra-Hexa						2,500			2,520		
						Hepta-Deca						33.7			62		
						Mono-Deca						3,870			3,920		



Sample ID: PB099-1SWMID-140319-MD (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.564)		PCB-108/119/86/97/125/87	64.6	C	PCB-155	(0.401)		PCB-165	(0.516)	
PCB-96	[2.85]	J EMPC	PCB-117	(0.581)		PCB-152	(0.469)		PCB-146	4.76	J B
PCB-103	(0.655)		PCB-116/85	21.8	C	PCB-150	(0.454)		PCB-161	(0.482)	
PCB-94	(0.781)		PCB-110	102		PCB-136	[4.72]	J B EMPC	PCB-153/168	25.7	B C
PCB-95	71.2		PCB-115	(0.531)		PCB-145	(0.485)		PCB-141	5.66	J
PCB-100/93	[1.59]	J EMPC C	PCB-82	17.4		PCB-148	(0.619)		PCB-130	2.57	J
PCB-102	6.81	J	PCB-111	(0.512)		PCB-151/135	10.2	J B C	PCB-137	2.74	J
PCB-98	(0.709)		PCB-120	(0.508)		PCB-154	(0.547)		PCB-164	2.13	J
PCB-88	(0.776)		PCB-107/124	(0.564)	C	PCB-144	(0.626)		PCB-163/138/129	36.2	B C
PCB-91	19		PCB-109	6.04	J	PCB-147/149	24.3	B C	PCB-160	(0.525)	
PCB-84	36.7		PCB-123	1.94	J	PCB-134	2.49	J	PCB-158	3.85	J
PCB-89	(0.813)		PCB-106	(0.565)		PCB-143	(0.628)		PCB-128/166	[4.86]	J EMPC C
PCB-121	(0.512)		PCB-118	65.1		PCB-139/140	[0.938]	J EMPC C	PCB-159	(0.519)	
PCB-92	15.4		PCB-122	(0.618)		PCB-131	(0.728)		PCB-162	(0.513)	
PCB-113/90/101	76.4	C	PCB-114	[2]	J EMPC	PCB-142	(0.742)		PCB-167	1.5	J
PCB-83	5.83	J	PCB-105	32		PCB-132	12.4	B	PCB-156/157	[3.37]	J EMPC C
PCB-99	49.3		PCB-127	(0.543)		PCB-133	(0.665)		PCB-169	(0.524)	
PCB-112	(0.534)		PCB-126	(0.872)							
			<b>Conc.</b>	592					<b>Conc.</b>	135	
			<b>EMPC</b>	598					<b>EMPC</b>	148	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.487)		PCB-174	5.25	J	PCB-202	1.51	J	PCB-208	(1.6)	
PCB-179	2.8	J	PCB-177	3.63	J	PCB-201	(0.717)		PCB-207	(1.57)	
PCB-184	[0.981]	J EMPC	PCB-181	(0.928)		PCB-204	(0.762)		PCB-206	(2.59)	
PCB-176	(0.544)		PCB-171/173	[2.12]	J EMPC C	PCB-197	(0.714)				
PCB-186	(0.586)		PCB-172	1.12	J	PCB-200	(0.753)		<b>Conc.</b>	0	
PCB-178	1.14	J	PCB-192	(0.772)		PCB-198/199	[4.23]	J EMPC C	<b>EMPC</b>	0	
PCB-175	(0.928)		PCB-180/193	[11.6]	J EMPC C	PCB-196	[1.59]	J EMPC			
PCB-187	7.73	J	PCB-191	(0.722)		PCB-203	[2.41]	J EMPC	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.834)		PCB-170	[4.01]	J EMPC	PCB-195	1.51	J	PCB-209	2.95	J B
PCB-183	3.36	J	PCB-190	[1.42]	J EMPC	PCB-194	2.69	J			
PCB-185	(0.965)		PCB-189	(0.6)		PCB-205	(0.748)				
			<b>Conc.</b>	25		<b>Conc.</b>	5.72				
			<b>EMPC</b>	45.1		<b>EMPC</b>	13.9				

**Sample ID: PB101.1-1SWMID-140319-N (TOTAL)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6528	Date Received:	20-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	0.96 L	Sample ID:	A6528_11906_PCB_003	Date Extracted:	21-Mar-2014
Date Collected:	19-Mar-2014	pH	7	QC Batch No.:	11906	Date Analyzed:	04-Apr-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	13.4				ES PCB-1	37.7	
PCB-81 344'5'-TeCB	ND	1.56			ES PCB-3	48.9	
PCB-105 233'44'-PeCB	32.6				ES PCB-4	59.8	
PCB-114 2344'5'-PeCB	EMPC		2.02	J	ES PCB-15	90.4	
PCB-118 23'44'5'-PeCB	63.3				ES PCB-19	70	
PCB-123 23'44'5'-PeCB	1.6			J	ES PCB-37	85.2	
PCB-126 33'44'5'-PeCB	ND	1.17			ES PCB-54	92.7	
PCB-156/157 233'44'5'/233'44'5'-HxCB	3.93			J C	ES PCB-77	93.7	
PCB-167 23'44'55'-HxCB	EMPC		1.29	J	ES PCB-81	91.2	
PCB-169 33'44'55'-HxCB	ND	0.735			ES PCB-104	115	
PCB-189 233'44'55'-HpCB	ND	0.822			ES PCB-105	103	
					ES PCB-114	99.8	
<b>TEQs (WHO M/H)</b>					ES PCB-118	103	
					ES PCB-123	99.8	
ND = 0	0.00439		0.00448		ES PCB-126	103	
ND = 0.5 x DL	0.0743		0.0743		ES PCB-153	100	
ND = DL	0.144		0.144		ES PCB-155	91.9	
					ES PCB-156/157	79.5	
<b>Totals</b>					ES PCB-167	78.2	
Mono-CBs	25.9				ES PCB-169	79.2	
Di-CBs	176		184		ES PCB-170	94	
Tri-CBs	877				ES PCB-180	95.5	
Tetra-CBs	1,610		1,610		ES PCB-188	118	
Penta-CBs	619		640		ES PCB-189	97.3	
Hexa-CBs	146		158		ES PCB-202	107	
Hepta-CBs	42		51.8		ES PCB-205	93.8	
Octa-CBs	7.56		16.2		ES PCB-206	102	
Nona-CBs	ND	2.19			ES PCB-208	107	
Deca-CB	3.08			J B	ES PCB-209	96.2	
					CS PCB-28	88.6	
Total PCB (Mono-Deca)	3,500		3,570		CS PCB-111	106	
					CS PCB-178	128	

Checkcode: 388-879-CFL


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Report Created: 10-Apr-2014 11:16 Analyst: CM



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Sample ID: PB101.1-1SWMID-140319-N (TOTAL)										Method 1668A							
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6528			Date Received: 20-Mar-2014								
Project ID: Patrick Bayou			Weight/Volume: 0.96 L			Sample ID: A6528_11906_PCB_003			Date Extracted: 21-Mar-2014								
Date Collected: 19-Mar-2014			pH: 7			QC Batch No.: 11906			Date Analyzed: 04-Apr-2014								
			Units: pg/L			Checkcode: 388-879-CFL			Time Analyzed: 04:34:05								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	15.1		PCB-19	36.7		PCB-54	[0.983]	J EMPC	PCB-72	(1.41)							
PCB-2	3.73	J	PCB-30/18	163	C	PCB-50/53	46.2	C	PCB-68	24							
PCB-3	7.12	J	PCB-17	78.8		PCB-45	39.8		PCB-57	(1.49)							
			PCB-27	14		PCB-51	34.6		PCB-58	(1.42)							
<b>Conc.</b>	25.9		PCB-24	(2.23)		PCB-46	18.1		PCB-67	4.37	J						
<b>EMPC</b>	25.9		PCB-16	59.8		PCB-52	255		PCB-63	7.16	J						
			PCB-32	79.7		PCB-73	(0.971)		PCB-61/70/74/76	215	C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.64)		PCB-43	9.59	J	PCB-66	134							
PCB-4	74.4		PCB-23	(1.62)		PCB-69/49	142	C	PCB-55	(1.52)							
PCB-10	(1.94)		PCB-26/29	39.3	C	PCB-48	33		PCB-56	72							
PCB-9	(1.65)		PCB-25	46.8		PCB-44/47/65	243	C	PCB-60	29.4							
PCB-7	(1.45)		PCB-31	122		PCB-59/62/75	17.4	J C	PCB-80	(1.28)							
PCB-6	29.8		PCB-28/20	150	C	PCB-42	62.6		PCB-79	3.2	J						
PCB-5	(1.56)		PCB-21/33	25.6	C	PCB-41	14.4		PCB-78	(1.57)							
PCB-8	25.1		PCB-22	38.8		PCB-71/40	106	C	PCB-81	(1.56)							
PCB-14	(1.3)		PCB-36	(1.52)		PCB-64	83		PCB-77	13.4							
PCB-11	26.9	B	PCB-39	(1.51)													
PCB-13/12	[8.63]	J EMPC C	PCB-38	(1.68)													
PCB-15	19.4		PCB-35	(1.74)													
			PCB-37	23.4													
<b>Conc.</b>	176		<b>Conc.</b>	877					<b>Conc.</b>	1,610							
<b>EMPC</b>	184		<b>EMPC</b>	877					<b>EMPC</b>	1,610							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						1,080			1,090		
						Tetra-Hexa						2,370			2,410		
						Hepta-Deca						52.7			71		
						Mono-Deca			3,500			3,570					

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.505)		PCB-108/119/86/97/125/87	75.3	C	PCB-155	(0.457)		PCB-165	(0.622)	
PCB-96	3.02	J	PCB-117	2.75	J	PCB-152	(0.536)		PCB-146	5.37	J B
PCB-103	(1.23)		PCB-116/85	22.3	C	PCB-150	(0.523)		PCB-161	(0.552)	
PCB-94	(1.47)		PCB-110	104		PCB-136	[4.52]	J B EMPC	PCB-153/168	27	B C
PCB-95	78		PCB-115	(1.02)		PCB-145	(0.556)		PCB-141	6.39	J
PCB-100/93	(1.35)	C	PCB-82	18.8		PCB-148	(0.769)		PCB-130	3.34	J
PCB-102	6.72	J	PCB-111	(0.946)		PCB-151/135	11.5	J B C	PCB-137	2.09	J
PCB-98	(1.34)		PCB-120	(0.949)		PCB-154	(0.678)		PCB-164	[2.43]	J EMPC
PCB-88	(1.4)		PCB-107/124	[2.78]	J EMPC C	PCB-144	(0.758)		PCB-163/138/129	38.3	B C
PCB-91	21.5		PCB-109	5.72	J	PCB-147/149	28.6	B C	PCB-160	(0.594)	
PCB-84	37.8		PCB-123	1.6	J	PCB-134	(1.01)		PCB-158	[3.31]	J EMPC
PCB-89	5.09	J	PCB-106	[1.4]	J EMPC	PCB-143	(0.783)		PCB-128/166	6.44	J C
PCB-121	(0.961)		PCB-118	63.3		PCB-139/140	(0.746)	C	PCB-159	(0.755)	
PCB-92	[15.2]	EMPC	PCB-122	(1.15)		PCB-131	(0.899)		PCB-162	(0.754)	
PCB-113/90/101	84.4	C	PCB-114	[2.02]	J EMPC	PCB-142	(0.897)		PCB-167	[1.29]	J EMPC
PCB-83	8.7	J	PCB-105	32.6		PCB-132	13	B	PCB-156/157	3.93	J C
PCB-99	46.8		PCB-127	(1.05)		PCB-133	(0.813)		PCB-169	(0.735)	
PCB-112	(1.01)		PCB-126	(1.17)							
			<b>Conc.</b>	619					<b>Conc.</b>	146	
			<b>EMPC</b>	640					<b>EMPC</b>	158	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.574)		PCB-174	[5.57]	J EMPC	PCB-202	1.76	J	PCB-208	(1.71)	
PCB-179	4.15	J	PCB-177	4.34	J	PCB-201	(0.727)		PCB-207	(1.7)	
PCB-184	2.21	J	PCB-181	(1.02)		PCB-204	(0.765)		PCB-206	(2.67)	
PCB-176	[0.903]	J EMPC	PCB-171/173	(1.17)	C	PCB-197	(0.698)				
PCB-186	(0.672)		PCB-172	(1.13)		PCB-200	(0.791)		<b>Conc.</b>	0	
PCB-178	1.5	J	PCB-192	(0.853)		PCB-198/199	[5.61]	J EMPC C	<b>EMPC</b>	0	
PCB-175	(1.03)		PCB-180/193	13.1	J C	PCB-196	2.48	J			
PCB-187	11.2		PCB-191	(0.796)		PCB-203	[2.99]	J EMPC	<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.946)		PCB-170	5.47	J	PCB-195	(1.38)		PCB-209	3.08	J B
PCB-183	[3.28]	J EMPC	PCB-190	(0.824)		PCB-194	3.33	J			
PCB-185	(1.09)		PCB-189	(0.822)		PCB-205	(0.94)				
			<b>Conc.</b>	42		<b>Conc.</b>	7.56				
			<b>EMPC</b>	51.8		<b>EMPC</b>	16.2				

**Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)****Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6528	Date Received:	20-Mar-2014
Project ID:	Patrick Bayou	Weight/Volume:	1.12 L	Sample ID:	A6528_11906_PCB_004	Date Extracted:	21-Mar-2014
Date Collected:	19-Mar-2014	pH	7	QC Batch No.:	11906	Date Analyzed:	04-Apr-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	2.65			J	ES PCB-1	48.1	
PCB-81 344'5'-TeCB	ND	0.483			ES PCB-3	62.7	
PCB-105 233'44'-PeCB	4.55			J B	ES PCB-4	74.9	
PCB-114 2344'5'-PeCB	EMPC		0.442	J	ES PCB-15	99.9	
PCB-118 23'44'5'-PeCB	10.2			B	ES PCB-19	81.1	
PCB-123 23'44'5'-PeCB	ND	0.25			ES PCB-37	89.4	
PCB-126 33'44'5'-PeCB	ND	0.367			ES PCB-54	100	
PCB-156/157 233'44'5'/233'44'5'-HxCB	0.706			J C	ES PCB-77	96.9	
PCB-167 23'44'55'-HxCB	ND	0.216			ES PCB-81	94.3	
PCB-169 33'44'55'-HxCB	ND	0.238			ES PCB-104	123	
PCB-189 233'44'55'-HpCB	ND	0.31			ES PCB-105	106	
					ES PCB-114	102	
<b>TEQs (WHO M/H)</b>					ES PCB-118	106	
					ES PCB-123	103	
ND = 0	0.000729		0.000742		ES PCB-126	109	
ND = 0.5 x DL	0.0228		0.0228		ES PCB-153	99.6	
ND = DL	0.0448		0.0448		ES PCB-155	94.3	
					ES PCB-156/157	81.5	
<b>Totals</b>					ES PCB-167	81.2	
Mono-CBs	20.5				ES PCB-169	83	
Di-CBs	141				ES PCB-170	100	
Tri-CBs	462				ES PCB-180	101	
Tetra-CBs	529		530		ES PCB-188	121	
Penta-CBs	124		127		ES PCB-189	102	
Hexa-CBs	29		32.9		ES PCB-202	109	
Hepta-CBs	9.02		10.9		ES PCB-205	98.6	
Octa-CBs	0.857		1.96		ES PCB-206	105	
Nona-CBs	ND	0.718			ES PCB-208	113	
Deca-CB	1.18			J B	ES PCB-209	101	
					CS PCB-28	91	
Total PCB (Mono-Deca)	1,320		1,330		CS PCB-111	109	
					CS PCB-178	127	

Checkcode: 118-899-GHZ


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Report Created: 06-Apr-2014 16:20 Analyst: CM



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USA

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Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)										Method 1668A				
Client Data			Sample Data			Laboratory Data								
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6528			Date Received: 20-Mar-2014					
Project ID: Patrick Bayou			Weight/Volume: 1.12 L			Sample ID: A6528_11906_PCB_004			Date Extracted: 21-Mar-2014					
Date Collected: 19-Mar-2014			pH: 7			QC Batch No.: 11906			Date Analyzed: 04-Apr-2014					
			Units: pg/L			Checkcode: 118-899-GHZ			Time Analyzed: 05:29:13					
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers			
PCB-1	11.3		PCB-19	24		PCB-54	[0.544]	J EMPC	PCB-72	(0.438)				
PCB-2	2.49	J	PCB-30/18	95	C	PCB-50/53	20	C	PCB-68	24.3				
PCB-3	6.69	J	PCB-17	43.4		PCB-45	17.5		PCB-57	(0.461)				
			PCB-27	8.51	J	PCB-51	25.4		PCB-58	(0.441)				
<b>Conc.</b>	20.5		PCB-24	1.16	J	PCB-46	7.87	J	PCB-67	1.16	J			
<b>EMPC</b>	20.5		PCB-16	38.4		PCB-52	90.6		PCB-63	1.6	J			
			PCB-32	42.7		PCB-73	(0.378)		PCB-61/70/74/76	50.8	C			
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(0.696)		PCB-43	3.16	J	PCB-66	29.5				
PCB-4	52.8		PCB-23	(0.687)		PCB-69/49	43.8	C	PCB-55	(0.47)				
PCB-10	1.97	J	PCB-26/29	19	C	PCB-48	10.7		PCB-56	17.4				
PCB-9	2.05	J	PCB-25	24.2		PCB-44/47/65	82.7	C	PCB-60	6.86	J			
PCB-7	1.37	J	PCB-31	56.9		PCB-59/62/75	5.89	J C	PCB-80	(0.398)				
PCB-6	21.1		PCB-28/20	66.4	C	PCB-42	19.8		PCB-79	(0.396)				
PCB-5	(0.504)		PCB-21/33	13.3	J C	PCB-41	4.58	J	PCB-78	(0.487)				
PCB-8	19.9		PCB-22	19.1		PCB-71/40	35.7	C	PCB-81	(0.483)				
PCB-14	(0.422)		PCB-36	(0.644)		PCB-64	27.2		PCB-77	2.65	J			
PCB-11	22	B	PCB-39	(0.641)										
PCB-13/12	7.84	J C	PCB-38	(0.713)										
PCB-15	12.2		PCB-35	(0.738)										
			PCB-37	9.52										
<b>Conc.</b>	141		<b>Conc.</b>	462					<b>Conc.</b>	529				
<b>EMPC</b>	141		<b>EMPC</b>	462					<b>EMPC</b>	530				
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>		
						Mono-Tri			623			623		
						Tetra-Hexa			682			689		
						Hepta-Deca			11.1			14		
			Mono-Deca			1,320			1,330					

Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)									Method 1668A		
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.2)		PCB-108/119/86/97/125/87	14.5	J B C	PCB-155	(0.189)		PCB-165	(0.26)	
PCB-96	0.7	J	PCB-117	(0.278)		PCB-152	(0.221)		PCB-146	1.12	J B
PCB-103	(0.328)		PCB-116/85	4.33	J C	PCB-150	(0.216)		PCB-161	(0.23)	
PCB-94	(0.39)		PCB-110	21.5	B	PCB-136	[1.45]	J B EMPC	PCB-153/168	5.53	J B C
PCB-95	19.5	B	PCB-115	(0.272)		PCB-145	(0.23)		PCB-141	1.42	J
PCB-100/93	(0.359)	C	PCB-82	3.11	J	PCB-148	(0.321)		PCB-130	(0.376)	
PCB-102	1.66	J	PCB-111	(0.252)		PCB-151/135	3.17	J B C	PCB-137	0.49	J
PCB-98	(0.356)		PCB-120	(0.253)		PCB-154	(0.283)		PCB-164	0.537	J
PCB-88	(0.373)		PCB-107/124	[0.545]	J EMPC C	PCB-144	(0.317)		PCB-163/138/129	7.93	J B C
PCB-91	4.28	J	PCB-109	(0.256)		PCB-147/149	6.31	J B C	PCB-160	(0.248)	
PCB-84	9.36		PCB-123	(0.25)		PCB-134	(0.421)		PCB-158	0.768	J
PCB-89	0.863	J	PCB-106	(0.264)		PCB-143	(0.327)		PCB-128/166	1.03	J C
PCB-121	(0.256)		PCB-118	10.2	B	PCB-139/140	(0.312)	C	PCB-159	(0.237)	
PCB-92	3.71	J	PCB-122	(0.298)		PCB-131	(0.375)		PCB-162	(0.236)	
PCB-113/90/101	17.2	J B C	PCB-114	[0.442]	J EMPC	PCB-142	(0.375)		PCB-167	(0.216)	
PCB-83	[1.47]	J EMPC	PCB-105	4.55	J B	PCB-132	[2.47]	J B EMPC	PCB-156/157	0.706	J C
PCB-99	8.58	J B	PCB-127	(0.268)		PCB-133	(0.34)		PCB-169	(0.238)	
PCB-112	[0.11]	EMPC	PCB-126	(0.367)							
			<b>Conc.</b>	124					<b>Conc.</b>	29	
			<b>EMPC</b>	127					<b>EMPC</b>	32.9	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.212)		PCB-174	1.42	J	PCB-202	(0.249)		PCB-208	(0.564)	
PCB-179	0.748	J	PCB-177	0.895	J	PCB-201	(0.235)		PCB-207	(0.558)	
PCB-184	(0.255)		PCB-181	(0.403)		PCB-204	(0.247)		PCB-206	(0.872)	
PCB-176	(0.234)		PCB-171/173	(0.462)	C	PCB-197	(0.225)				
PCB-186	(0.248)		PCB-172	(0.447)		PCB-200	(0.256)		<b>Conc.</b>	0	
PCB-178	(0.351)		PCB-192	(0.338)		PCB-198/199	[1.1]	J EMPC C	<b>EMPC</b>	0	
PCB-175	(0.408)		PCB-180/193	3.27	J C	PCB-196	(0.337)				
PCB-187	[1.83]	J EMPC	PCB-191	(0.316)		PCB-203	(0.328)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.375)		PCB-170	1.77	J	PCB-195	(0.477)		PCB-209	1.18	J B
PCB-183	0.913	J	PCB-190	(0.349)		PCB-194	0.857	J			
PCB-185	(0.433)		PCB-189	(0.31)		PCB-205	(0.324)				
			<b>Conc.</b>	9.02		<b>Conc.</b>	0.857				
			<b>EMPC</b>	10.9		<b>EMPC</b>	1.96				

**Sample ID: Method Blank A6528****Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A6528	Date Received:	n/a
Project ID:	Patrick Bayou	Weight/Volume:	1.00 L	Sample ID:	MB1_11906_PCB_TLX-RJ	Date Extracted:	21-Mar-2014
Date Collected:	n/a	pH	n/a	QC Batch No.:	11906	Date Analyzed:	03-Apr-2014
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	1.05			ES PCB-1	65.4	
PCB-81 344'5'-TeCB	ND	1.15			ES PCB-3	75.3	
PCB-105 233'44'-PeCB	1.59			J	ES PCB-4	93.9	
PCB-114 2344'5'-PeCB	ND	0.604			ES PCB-15	100	
PCB-118 23'44'5'-PeCB	EMPC		2.96	J	ES PCB-19	96.6	
PCB-123 23'44'5'-PeCB	ND	0.568			ES PCB-37	87.3	
PCB-126 33'44'5'-PeCB	ND	0.871			ES PCB-54	104	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	0.782		C	ES PCB-77	94	
PCB-167 23'44'55'-HxCB	ND	0.521			ES PCB-81	90.9	
PCB-169 33'44'55'-HxCB	ND	0.566			ES PCB-104	122	
PCB-189 233'44'55'-HpCB	ND	0.731			ES PCB-105	102	
					ES PCB-114	99.1	
<b>TEQs (WHO M/H)</b>					ES PCB-118	102	
					ES PCB-123	100	
ND = 0	0.0000476		0.000136		ES PCB-126	103	
ND = 0.5 x DL	0.0524		0.0524		ES PCB-153	95.6	
ND = DL	0.105		0.105		ES PCB-155	95.5	
					ES PCB-156/157	78.4	
<b>Totals</b>					ES PCB-167	78.4	
Mono-CBs	ND	0.865			ES PCB-169	78.5	
Di-CBs	10.2				ES PCB-170	97.4	
Tri-CBs	4.94				ES PCB-180	101	
Tetra-CBs	13.3		16.9		ES PCB-188	115	
Penta-CBs	10.6		25.8		ES PCB-189	98.7	
Hexa-CBs	9.22		16		ES PCB-202	103	
Hepta-CBs	ND	0.792			ES PCB-205	95	
Octa-CBs	ND	0.758			ES PCB-206	104	
Nona-CBs	ND	1.74			ES PCB-208	108	
Deca-CB	1.01			J	ES PCB-209	97.4	
					CS PCB-28	82.9	
Total PCB (Mono-Deca)	49.2		74.9		CS PCB-111	99.9	
					CS PCB-178	119	

Checkcode: 441-024-FNH

SGS Environmental Services - PCB 2014 Rev. 4.04


Report Created: 06-Apr-2014 16:15 Analyst: CM



5500 Business Drive  
Wilmington  
North Carolina 28405  
USA

T: 910 794-1613  
[www.us.sgs.com](http://www.us.sgs.com)



Sample ID: Method Blank A6528						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A6528			Date Received: n/a								
Project ID: Patrick Bayou			Weight/Volume: 1.00 L			Sample ID: MB1_11906_PCB_TLX-RJ			Date Extracted: 21-Mar-2014								
Date Collected: n/a			pH: n/a			QC Batch No.: 11906			Date Analyzed: 03-Apr-2014								
			Units: pg/L			Checkcode: 441-024-FNH			Time Analyzed: 17:21:41								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	(0.846)		PCB-19	(2.25)		PCB-54	(0.851)		PCB-72	(1.07)							
PCB-2	(0.767)		PCB-30/18	(1.71)	C	PCB-50/53	(1.14)	C	PCB-68	(1.02)							
PCB-3	(0.885)		PCB-17	(2.02)		PCB-45	(1.42)		PCB-57	(1.12)							
			PCB-27	(1.46)		PCB-51	(1.06)		PCB-58	(1.08)							
<b>Conc.</b>	0		PCB-24	(1.5)		PCB-46	(1.43)		PCB-67	(1.04)							
<b>EMPC</b>	0		PCB-16	(2.76)		PCB-52	5.29	J	PCB-63	(0.993)							
			PCB-32	(1.37)		PCB-73	(0.861)		PCB-61/70/74/76	4.02	J C						
<b>Di</b>	<b>Conc.</b>	<b>Qualifiers</b>	PCB-34	(1.64)		PCB-43	(1.43)		PCB-66	1.89	J						
PCB-4	(2.04)		PCB-23	(1.62)		PCB-69/49	2.11	J C	PCB-55	(1.16)							
PCB-10	(1.35)		PCB-26/29	(1.59)	C	PCB-48	(1.17)		PCB-56	(1.17)							
PCB-9	(1.82)		PCB-25	(1.56)		PCB-44/47/65	[3.59]	J EMPC C	PCB-60	(1.14)							
PCB-7	(1.62)		PCB-31	2.06	J	PCB-59/62/75	(0.836)	C	PCB-80	(0.979)							
PCB-6	(1.73)		PCB-28/20	2.88	J C	PCB-42	(1.28)		PCB-79	(0.997)							
PCB-5	(1.71)		PCB-21/33	(1.58)	C	PCB-41	(1.49)		PCB-78	(1.19)							
PCB-8	(1.66)		PCB-22	(1.71)		PCB-71/40	(1.11)	C	PCB-81	(1.15)							
PCB-14	(1.44)		PCB-36	(1.56)		PCB-64	(0.785)		PCB-77	(1.05)							
PCB-11	10.2		PCB-39	(1.5)													
PCB-13/12	(1.66)	C	PCB-38	(1.69)													
PCB-15	(1.74)		PCB-35	(1.75)													
			PCB-37	(1.88)													
<b>Conc.</b>	10.2		<b>Conc.</b>	4.94					<b>Conc.</b>	13.3							
<b>EMPC</b>	10.2		<b>EMPC</b>	4.94					<b>EMPC</b>	16.9							
 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com						<b>Totals</b>			<b>Conc.</b>			<b>EMPC</b>					
						Mono-Tri						15.1			15.1		
						Tetra-Hexa						33.1			58.8		
						Hepta-Deca						1.01			1.01		
						Mono-Deca			49.2			74.9					

Sample ID: Method Blank A6528						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.415)		PCB-108/119/86/97/125/87	4.19	J C	PCB-155	(0.387)		PCB-165	(0.558)	
PCB-96	(0.513)		PCB-117	(0.586)		PCB-152	(0.446)		PCB-146	1.1	J
PCB-103	(0.741)		PCB-116/85	(0.773)	C	PCB-150	(0.445)		PCB-161	(0.518)	
PCB-94	(0.888)		PCB-110	[5.96]	J EMPC	PCB-136	0.662	J	PCB-153/168	3.47	J C
PCB-95	4.79	J	PCB-115	(0.574)		PCB-145	(0.467)		PCB-141	(0.726)	
PCB-100/93	(0.829)	C	PCB-82	(1.01)		PCB-148	(0.675)		PCB-130	(0.82)	
PCB-102	(0.71)		PCB-111	(0.573)		PCB-151/135	[1.64]	J EMPC C	PCB-137	(0.682)	
PCB-98	(0.902)		PCB-120	(0.567)		PCB-154	(0.599)		PCB-164	(0.515)	
PCB-88	(0.952)		PCB-107/124	(0.629)	C	PCB-144	(0.678)		PCB-163/138/129	3.99	J C
PCB-91	(0.711)		PCB-109	(0.566)		PCB-147/149	[3.63]	J EMPC C	PCB-160	(0.552)	
PCB-84	(0.978)		PCB-123	(0.568)		PCB-134	(0.832)		PCB-158	(0.485)	
PCB-89	(0.914)		PCB-106	(0.628)		PCB-143	(0.738)		PCB-128/166	(0.681)	C
PCB-121	(0.577)		PCB-118	[2.96]	J EMPC	PCB-139/140	(0.664)	C	PCB-159	(0.564)	
PCB-92	(0.851)		PCB-122	(0.718)		PCB-131	(0.788)		PCB-162	(0.571)	
PCB-113/90/101	[4.4]	J EMPC C	PCB-114	(0.604)		PCB-142	(0.797)		PCB-167	(0.521)	
PCB-83	(1)		PCB-105	1.59	J	PCB-132	[1.52]	J EMPC	PCB-156/157	(0.782)	C
PCB-99	[1.95]	J EMPC	PCB-127	(0.648)		PCB-133	(0.725)		PCB-169	(0.566)	
PCB-112	(0.591)		PCB-126	(0.871)							
			<b>Conc.</b>	10.6					<b>Conc.</b>	9.22	
			<b>EMPC</b>	25.8					<b>EMPC</b>	16	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.511)		PCB-174	(1.04)		PCB-202	(0.604)		PCB-208	(1.42)	
PCB-179	(0.598)		PCB-177	(1.04)		PCB-201	(0.57)		PCB-207	(1.39)	
PCB-184	(0.634)		PCB-181	(0.902)		PCB-204	(0.609)		PCB-206	(2.07)	
PCB-176	(0.576)		PCB-171/173	(1.04)	C	PCB-197	(0.536)				
PCB-186	(0.606)		PCB-172	(1.01)		PCB-200	(0.642)		<b>Conc.</b>	0	
PCB-178	(0.859)		PCB-192	(0.754)		PCB-198/199	(0.874)	C	<b>EMPC</b>	0	
PCB-175	(0.918)		PCB-180/193	(0.793)	C	PCB-196	(0.825)				
PCB-187	(0.856)		PCB-191	(0.718)		PCB-203	(0.798)		<b>Deca</b>	<b>Conc.</b>	<b>Qualifiers</b>
PCB-182	(0.843)		PCB-170	(1.06)		PCB-195	(1.37)		PCB-209	1.01	J
PCB-183	(0.841)		PCB-190	(0.731)		PCB-194	(1.24)				
PCB-185	(0.881)		PCB-189	(0.731)		PCB-205	(0.912)				
			<b>Conc.</b>	0		<b>Conc.</b>	0				
			<b>EMPC</b>	0		<b>EMPC</b>	0				

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8A

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140402X02 Analysis Date: 02-APR-2014 00:23:43  
 Lab ID: OPR1\_11906\_PCB

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	110	50 - 150	Y
PCB-3 4-MoCB	50	112	50 - 150	Y
PCB-4 22'-DiCB	50	91.2	50 - 150	Y
PCB-15 44'-DiCB	50	103	50 - 150	Y
PCB-19 22'6-TrCB	50	94.1	50 - 150	Y
PCB-37 344'-TrCB	50	105	50 - 150	Y
PCB-54 22'66'-TeCB	50	92.2	50 - 150	Y
PCB-77 33'44'-TeCB	50	94.9	50 - 150	Y
PCB-81 344'5-TeCB	50	100	50 - 150	Y
PCB-104 22'466'-PeCB	50	89.2	50 - 150	Y
PCB-105 233'44'-PeCB	50	94.7	50 - 150	Y
PCB-114 2344'5-PeCB	50	94.7	50 - 150	Y
PCB-118 23'44'5-PeCB	50	92.5	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	92.8	50 - 150	Y
PCB-126 33'44'5-PeCB	50	103	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	87.8	50 - 150	Y
PCB-156/157 ...-HxCB	100	94.1	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	93.1	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	91.6	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	87.9	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	99.3	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	91.9	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	93.2	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	95	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	94.8	50 - 150	Y
PCB-209 DeCB	50	94.5	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 06 Apr 2014 16:10 Analyst: CM

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140402X02 Analysis Date: 02-APR-2014 00:23:43  
 Lab ID: OPR1\_11906\_PCB

LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	91.6	15	-	140	Y
ES PCB-3	100	89.9	15	-	140	Y
ES PCB-4	100	105	30	-	140	Y
ES PCB-15	100	103	30	-	140	Y
ES PCB-19	100	95.8	30	-	140	Y
ES PCB-37	100	93	30	-	140	Y
ES PCB-54	100	103	30	-	140	Y
ES PCB-77	100	96.5	30	-	140	Y
ES PCB-81	100	94.3	30	-	140	Y
ES PCB-104	100	117	30	-	140	Y
ES PCB-105	100	100	30	-	140	Y
ES PCB-114	100	98.6	30	-	140	Y
ES PCB-118	100	104	30	-	140	Y
ES PCB-123	100	102	30	-	140	Y
ES PCB-126	100	100	30	-	140	Y
ES PCB-153	100	98.4	30	-	140	Y
ES PCB-155	100	95.3	30	-	140	Y
ES PCB-156/157	200	77.6	30	-	140	Y
ES PCB-167	100	80.1	30	-	140	Y
ES PCB-169	100	73.1	30	-	140	Y
ES PCB-170	100	95.9	30	-	140	Y
ES PCB-180	100	102	30	-	140	Y
ES PCB-188	100	112	30	-	140	Y
ES PCB-189	100	99.8	30	-	140	Y
ES PCB-202	100	99.1	30	-	140	Y
ES PCB-205	100	90.1	30	-	140	Y
ES PCB-206	100	95.4	30	-	140	Y
ES PCB-208	100	107	30	-	140	Y
ES PCB-209	100	90.8	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	85.7	40	-	125	Y
CS PCB-111	100	101	40	-	125	Y
CS PCB-178	100	111	40	-	125	Y

Processed: 06 Apr 2014 16:10 Analyst: CM

2714 Exchange Drive  
 Wilmington, NC 28405 USA  
 Tel: 910 794-1613  
 Toll Free: 866 846-8290  
 Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 20-Mar-14 at 09:40  
**AP Project name:** A6528  
**Requested TAT:** 21 days  
**Projected due date:** 10-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB099-1SWMID-140319-N (TOTAL)	A6528_001	Grab	2	1.25L Amber	19-Mar-14	17:13	4	1	875887997089
PB099-1SWMID-140319-MD (TOTAL)	A6528_002	Grab	2	1L Amber	19-Mar-14	16:45	4	1	875887997089
PB101.1-1SWMID-140319-N (TOTAL)	A6528_003	Grab	2	1L Amber	19-Mar-14	17:45	4	1	875887997089
PB101.1-1SWMID-140319-N (DISSOLVED)	A6528_004	Grab	2	1.25L Amber	19-Mar-14	17:45	4	1	875887997089

<b>Preservation Type:</b>	Ice - Good Condition	<b>Sample Seals:</b>	No	
<b>Notes/Comments:</b>	Samples received intact			Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

**PROJECT INFO:**

PROJECT: 040284-01.08

P.O. #:

QUOTE #:

SITE REF: Patrick Bayou

TURN AROUND TIME: Standard

REPORT LEVEL: (see reverse)  Level I  Level II  Level IVSPECIAL DELIVERABLES:  State of Origin: EDD:  Other:**SEND DOCUMENTATION / RESULTS TO:**COMPANY: Anchor QIEA, LLC  
CONTACT: Delaney Peterson  
ADDRESS: 720 Olive Way, Ste 1900  
Seattle WA 98101PHONE:  
EMAIL: dpeterson@anchoragea.com**INVOICE TO:** (  CHECK IF SAME)COMPANY: PNL CONTACT: Bob Piniewski  
ADDRESS:  
PHONE:  
EMAIL: bobp@projectnavigator.com**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE						REMARKS
None	None	HCl	None	None		
None	None	HCl	None	None		* Filter upon receipt ** Filter and preserve upon receipt
ANALYSIS & METHOD						
PEB Conc, Tot	TSS	TOC	PEB Conc, Diss	DOC		
✓	✓	✓	✓	✓		

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY
				MS	MSD	DUP			
	PB099-15WMID-140319-N	3/19/14	1713				G	WS	5
	PB099-15WMID-140319-MD	3/19/14	1645				G	WS	5
	PB1011-15WMID-140319-N	3/19/14	1745				G	WS	9
<del>_____</del>									

COLLECTED/RELINQUISHED BY (1): <i>Jason Kase</i>	DATE: 3/19/14	TIME: 1740	RECEIVED BY: <i>FedEx</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:

RECEIVED BY LABORATORY: <i>Orstein Neuh</i>	DATE: 3/20/14	TIME: 0940
COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		
SAMPLE RECEIPT TEMP: °C		4
CARRIER:	TRACKING #:	
NOTES:		

25L  
1L  
1LTS  
2502  
25L  
2031404

**SGS**

## Project Initiation Form

Project Number: A6528Initiation Date: 20-Mar-14Client Name: ANCHOR QEASample Matrix: AqueousAnalysis Method: 1668ATAT: 21 daysProject Manager: Amy

### Special Instructions

1668A w/ OPR  
Dissolved samples need to be filtered before extraction

### Reporting Instructions

1668A w/ OPR  
Anchor Equis EDD

PM Initials: akornega Date: 20-Mar-2014

TRANSFER: AN 3/25/14

RECEIVED: LRB 26-MAR-2014

SGS ANALYTICAL PERSPECTIVES		1668A		Water						
Project #	A6528	Batch #	11906	Extract Init/Date: <u>MW 3/21/14</u>	ASPC Init/Date: <u>MA 3/24/14</u>	Transfer Init/Date: <u>MW 3/25/14</u>				
AP Sample ID	Client Sample ID	Volume (ml.)	Talex #	SDS #	RV		(Td)	Clean-up M/A	Observations	
					#	Initials				
A6528_11906_001	PB099-1SWMID-140319-N (TOTAL)	1217	8	-	4	YB	-	NA	yellowish	
A6528_11906_002	PB099-1SWMID-140319-MD (TOTAL)	970	9	-	4	YB	-	NA	yellowish	
A6528_11906_003	PB101.1-1SWMID-140319-N (TOTAL)	957	10	-	3	YB	-	NA	yellowish	
A6528_11906_004	PB101.1-1SWMID-140319-N (DISSOLVED)	1115	11	-	4	YB	-	NA	yellowish	
MB1_11906	Method Blank	1000	1	-	4	YB	-	NA	Talex DI H <sub>2</sub> O 02272014	
OPR1_11906	0_11906_OPR001	1000	2	-	3	YB	-	NA	Talex DI H <sub>2</sub> O 02272014	
<b>Special Instructions:</b>				<b>Cycle Time</b>			<b>Supply IDs</b>			
1668A w/ OPR Dissolved samples need to be filtered before extraction				Start: <u>11:10 am</u>			Toluene	<u>DJ460</u>	Acid Silica	<u>03142014</u>
				Stop: <u>11:54 pm</u>			CH <sub>2</sub> CL <sub>2</sub>	<u>DJ658</u>	Base Silica	<u>01102014</u>
							Sand	<u>---</u>	HydroMatrix	<u>---</u>
							Florasil	<u>03182014</u>	Tetradecane	<u>---</u>
				Start:			Hexane	<u>DJ567</u>	N <sub>2</sub> SO <sub>4</sub>	<u>02242014</u>
				Stop:			Silica	<u>12A 2013</u>	A <sub>2</sub> O <sub>3</sub> K Silicate	<u>03202014</u>





1668A

Aqueous

Project # A6528 Batch # 11906


**Inter-Department Communication Sheet**

Handwritten note: eeAd 07 APR 14

**Special Instructions**

1668A w/ OPR  
Dissolved samples need to be filtered before extraction



		1668A		Water			
Project # A6528		Batch # 11906					
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
Spiker Initials/Date: <i>Am 3/21/14</i> <i>Am 3/21/14</i> <i>NA 3/24/14</i> <i>NA 3/25/14</i>							
AP Sample ID	Client Sample ID	PCB ES	PCB Ax 209	PCB CS	PCB JS		
		Amount: <i>20 µL</i>	Amount: <i>20 µL</i>	Amount: <i>20 µL</i>	Amount: <i>10 µL</i>		
		Observer Initials	Observer Initials	Observer Initials	Observer Initials		
A6528_11906_001	PB099-1SWMID-140319-N (TOTAL)	<i>MK</i>	<i>-</i>	<i>a</i>	<i>MK</i>		
A6528_11906_002	PB099-1SWMID-140319-MD (TOTAL)	<i>MK</i>	<i>-</i>	<i>a</i>	<i>MK</i>		
A6528_11906_003	PB101.1-1SWMID-140319-N (TOTAL)	<i>MK</i>	<i>-</i>	<i>a</i>	<i>MK</i>		
A6528_11906_004	PB101.1-1SWMID-140319-N (DISSOLVED)	<i>MK</i>	<i>-</i>	<i>a</i>	<i>MK</i>		
MB1_11906	Method Blank	<i>MK</i>	<i>-</i>	<i>a</i>	<i>MK</i>		
OPR1_11906	0_11906_OPR001	<i>MK</i>	<i>MK</i>	<i>a</i>	<i>MK</i>		
		<i>3/21/14</i>	<i>3/21/14</i>	<i>3/24/14</i>	<i>3/25/14</i>		
Standard Information							
Std. Type		PCB ES	PCB Ax 209	PCB CS/SS	PCB JS		
Spike ID		<i>10292013B</i>	<i>10292013</i>	<i>10292013B</i>	<i>10292013B</i>		
SIL #		<i>13-96-1</i>	<i>13-78-1</i>	<i>13-96-2</i>	<i>13-96-3</i>		
Concentration		100	50	100	200		
Units		pg/µL	pg/µL	pg/µL	pg/µL		
Exp. Date		<i>12/19/14</i>	<i>10/29/14</i>	<i>12/19/14</i>	<i>12-19-14</i>		
Spike amount (µL)		20	20	20	10		



# Sample Receipt Notification

2714 Exchange Drive  
Wilmington, NC 28405 USA  
Tel: 910 794-1613  
Toll Free: 866 846-8290  
Fax: 910 794-3919

**Project Manager:** Amy Boehm  
**Receipt Date & Time:** 20-Mar-14 at 09:40  
**AP Project name:** A6528  
**Requested TAT:** 21 days  
**Projected due date:** 10-Apr-14  
**Matrix:** Aqueous  
**Phone#:** 910-794-1613  
**Email Address:** [Amy.Boehm@sgs.com](mailto:Amy.Boehm@sgs.com)

**Company Contact:** Delaney Peterson  
**Company:** ANCHOR QEA  
**Project Name & Site:** Patrick Bayou  
**Project PO#:** N/A  
**QAAP/Contract #:** N/A  
**Requested Analysis:** Method 1668A  
**Phone#:** 206.903.3396  
**Email Address:** [dpeterson@anchorqea.com](mailto:dpeterson@anchorqea.com)

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
PB099-1SWMID-140319-N (TOTAL)	A6528_001	Grab	2	1.25L Amber	19-Mar-14	17:13	4	1	875887997089
PB099-1SWMID-140319-MD (TOTAL)	A6528_002	Grab	2	1L Amber	19-Mar-14	16:45	4	1	875887997089
PB101.1-1SWMID-140319-N (TOTAL)	A6528_003	Grab	2	1L Amber	19-Mar-14	17:45	4	1	875887997089
PB101.1-1SWMID-140319-N (DISSOLVED)	A6528_004	Grab	2	1.25L Amber	19-Mar-14	17:45	4	1	875887997089

<b>Preservation Type:</b> Ice - Good Condition	<b>Sample Seals:</b> No	Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.
<b>Notes/Comments:</b> Samples received intact		

Received by: Christina Newkirk      Logged in by: Christina Newkirk

QC'ed by: AK 20 Mar 14

A6528



# CHAIN OF CUSTODY | CONVENTIONAL & SHALE

**PROJECT INFO:**

PROJECT: 040284-01.08

PO. #:

QUOTE #:

SITE REF: Patrick Beppo

TURN AROUND TIME: Standard

REPORT LEVEL: (see reverse)  Level I  Level II  Level IV

SPECIAL DELIVERABLES:  State of Origin:

EDD:  Other:

**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: Anchor QIEA, LLC

CONTACT: Delaney Peterson

ADDRESS: 720 Olive Way, Ste 1900

PHONE: Seattle WA 98101

EMAIL: dpeterson@anchoragea.com

**INVOICE TO:** ( CHECK IF SAME)

COMPANY: PNL

CONTACT:

ADDRESS:

PHONE:

EMAIL: bobp@projectnavigator.com

**SPECIAL INSTRUCTIONS / COMMENTS:**

PRESERVATIVE					REMARKS
None	None	HCl	None	None	
					* Filter upon receipt ** Filter and preserve upon receipt
ANALYSIS & METHOD					
PEB Cong, Tot	TSS	TOC	PEB Cons Diss	DOC**	
✓	✓	✓	✓	✓	

1.75L  
1L  
1LT  
1.7502  
1.75L  
AP  
22031404

LAB ID	SAMPLE ID / DESCRIPTION	DATE	TIME	QC			TYPE (C, G)	MATRIX	CONT. QTY
				MS	MSD	DUP			
	PB099-1SWMID-140319-N	3/19/14	1713				G	WS	5
	PB099-1SWMID-140319-MD	3/19/14	1645				G	WS	5
	PB101.1-1SWMID-140319-N	3/19/14	1745				G	WS	9
<del>_____</del>									

COLLECTED/RELINQUISHED BY (1): <i>Jason Kase</i>	DATE: 3/19/14	TIME: 1740	RECEIVED BY: <i>FedEx</i>
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:

RECEIVED BY LABORATORY: <i>Chstein Neuh</i>	DATE: 3/20/14	TIME: 0940
COC SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		
SAMPLE RECEIPT TEMP: °C <i>4</i>		
CARRIER:	TRACKING #:	
NOTES:		

## SGS Analytical Perspectives — Run Log

Project: A6528\_11906\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	140402X01	Tray1:03	CS3_140402_PCB_XA	1.00	SIL 13-79-3	LKB, CEM	090-369	01-Apr-2014	23:29:14
2	140402X02	Tray1:20	OPR1_11906_PCB	1.00	0_11906_OPR001	LKB, CEM	758-213	02-Apr-2014	00:23:43
3	140402X03	Tray1:02	SBS_140402_PCB_XA	1.00	SIL 13-42-1	LKB, CEM	542-620	02-Apr-2014	01:18:59
4	140402X04	Tray1:21	MB1_11906_PCB_TLX	1.00	Method Blank	LKB, CEM	122-856	02-Apr-2014	02:14:08
5	140402X10	Tray1:27	A6528_11906_PCB_001	1.22	PB099-1SWMID-140319-N (TOTAL)	LKB, CEM	065-928	02-Apr-2014	07:45:18
6	140402X11	Tray1:28	A6528_11906_PCB_002	0.97	PB099-1SWMID-140319-MD (TOTAL)	LKB, CEM	334-515	02-Apr-2014	08:40:36
7	140403X04	Tray1:03	CS3_140403_PCB_XB	1.00	SIL 13-79-3	LKB, CEM	739-978	03-Apr-2014	15:20:55
8	140403X05	Tray1:02	SBS_140403_PCB_XC	1.00	SIL 13-42-1	LKB, CEM	701-763	03-Apr-2014	16:27:17
9	140403X06	Tray1:21	MB1_11906_PCB_TLX-RJ	1.00	Method Blank	LKB, CEM	441-024	03-Apr-2014	17:21:41
10	140403X11	Tray1:03	CS3_140403_PCB_XC	1.00	SIL 13-79-3	LKB, CEM	980-763	03-Apr-2014	22:09:02
11	140403X18	Tray1:41	A6528_11906_PCB_003	0.96	PB101.1-1SWMID-140319-N (TOTAL)	LKB, CEM	388-879	04-Apr-2014	04:34:05
12	140403X19	Tray1:42	A6528_11906_PCB_004	1.12	PB101.1-1SWMID-140319-N (DISSOLVED)	LKB, CEM	118-899	04-Apr-2014	05:29:13

Lab ID: MB1\_11906\_PCB\_TLX-RJ

ACQ: 03-Apr-2014 17:21:41 LKB

Wt/Vol: 1.00 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140403\_PCB\_XB

Client ID: Method Blank A6528

UTP: 05-Apr-2014 03:00 CEM

J-level: 10 pg/L Split: 1

Checkcode: 441-024-FNH

Datafile: 140403X06

RPT: 06-Apr-2014 16:15 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.15	ND	4.10E+03	1.05
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.10E+03	1.15
PCB-105 233'44'-PeCB	35.64	J	1.0007	1.0006	-0.2	5.07E+04	0.54	1.11	1.59	1.95E+03	0.642
PCB-114 2344'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.20	ND	1.95E+03	0.604
PCB-118 23'44'5'-PeCB	34.64	J EMPC	1.0007	1.0006	-0.2	9.73E+04	0.79	1.19	2.96	1.95E+03	0.59
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	1.95E+03	0.568
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.27E+03	0.871
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.10	ND	1.46E+03	0.782
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.46E+03	0.521
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.46E+03	0.566
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.67E+03	0.731
PCB-209 DeCB	50.69	J	1.0000	1.0007	+2.1	1.71E+04	1.12	1.11	1.01	1.11E+03	0.766
ES PCB-1	11.81		0.7244	0.7244	0	6.75E+07	3.28	1.19	65.4 %	15%	150%
ES PCB-3	14.08		0.8640	0.8640	0	7.07E+07	3.35	1.09	75.3 %	15%	150%
ES PCB-4	14.33		0.8793	0.8792	-0.1	4.25E+07	1.61	0.52	93.9 %	25%	150%
ES PCB-15	20.02		1.2279	1.2282	+0.4	9.04E+07	1.58	1.04	100 %	25%	150%
ES PCB-19	17.40		1.0674	1.0673	-0.1	4.23E+07	1.07	0.51	96.6 %	25%	150%
ES PCB-37	26.33		1.0793	1.0794	+0.2	7.45E+07	1.09	1.66	87.3 %	25%	150%
ES PCB-54	20.30		0.8322	0.8321	-0.1	4.61E+07	0.80	0.86	104 %	25%	150%
ES PCB-77	32.64		1.3381	1.3383	+0.4	6.68E+07	0.79	1.38	94 %	25%	150%
ES PCB-81	32.17		1.3186	1.3188	+0.4	6.39E+07	0.81	1.37	90.9 %	25%	150%
ES PCB-104	25.26		0.8317	0.8317	0	4.58E+07	1.61	0.80	122 %	25%	150%
ES PCB-105	35.62		1.1729	1.1730	+0.2	5.74E+07	1.59	1.20	102 %	25%	150%
ES PCB-114	35.08		1.1551	1.1552	+0.2	5.63E+07	1.59	1.22	99.1 %	25%	150%
ES PCB-118	34.61		1.1398	1.1399	+0.2	5.52E+07	1.63	1.16	102 %	25%	150%
ES PCB-123	34.33		1.1306	1.1306	0	5.54E+07	1.57	1.19	100 %	25%	150%
ES PCB-126	38.23		1.2588	1.2590	+0.5	4.92E+07	1.60	1.03	103 %	25%	150%
ES PCB-153	36.20		0.9715	0.9715	0	4.08E+07	1.32	1.11	95.6 %	25%	150%
ES PCB-155	30.20		0.8106	0.8105	-0.2	5.86E+07	1.25	1.59	95.5 %	25%	150%
ES PCB-156/157	40.78		1.0943	1.0944	+0.2	9.68E+07	1.28	1.60	78.4 %	25%	150%
ES PCB-167	39.79		1.0679	1.0680	+0.2	5.05E+07	1.28	1.67	78.4 %	25%	150%
ES PCB-169	43.49		1.1671	1.1672	+0.3	4.71E+07	1.25	1.56	78.5 %	25%	150%
ES PCB-170	43.00		0.9078	0.9077	-0.3	3.01E+07	1.08	0.95	97.4 %	25%	150%
ES PCB-180	41.93		0.8852	0.8852	0	3.69E+07	1.09	1.14	101 %	25%	150%
ES PCB-188	35.07		0.7404	0.7403	-0.2	4.16E+07	1.08	0.94	115 %	25%	150%
ES PCB-189	45.61		0.9628	0.9628	0	4.41E+07	1.03	1.58	98.7 %	25%	150%
ES PCB-202	39.61		0.8361	0.8360	-0.2	3.84E+07	0.94	0.97	103 %	25%	150%
ES PCB-205	47.77		1.0084	1.0084	0	3.33E+07	0.91	1.24	95 %	25%	150%
ES PCB-206	49.23		1.0393	1.0393	0	2.43E+07	0.80	0.83	104 %	25%	150%
ES PCB-208	45.23		0.9547	0.9547	0	3.58E+07	0.79	1.17	108 %	25%	150%
ES PCB-209	50.65		1.0692	1.0692	0	3.05E+07	1.19	1.11	97.4 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.77		0.9337	0.9337	0	7.87E+07	1.10	1.11	95 %	30%	135%
SS PCB-111	32.66		1.0754	1.0754	0	5.69E+07	1.55	1.03	99.7 %	30%	135%
SS PCB-178	37.63		1.0101	1.0101	0	2.67E+07	1.07	0.62	104 %	30%	135%
CS PCB-28	22.77		0.9337	0.9337	0	7.87E+07	1.10	1.85	82.9 %	30%	135%
CS PCB-111	32.66		1.0754	1.0754	0	5.69E+07	1.55	1.22	99.9 %	30%	135%
CS PCB-178	37.63		1.0101	1.0101	0	2.67E+07	1.07	0.58	119 %	30%	135%
JS PCB-9	16.30					8.65E+07	1.57				
JS PCB-52	24.39					5.14E+07	0.81				
JS PCB-101	30.37					4.66E+07	1.59				
JS PCB-138	37.26					3.86E+07	1.31				
JS PCB-194	47.37					2.82E+07	0.90				
<b>Totals</b>											
						<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
						Mono-CBs	0	0		0.865	
						Di-CBs	10.2	10.2		1.89	
						Tri-CBs	4.94	4.94		2.07	
						Tetra-CBs	13.3	16.9		1.07	
						Penta-CBs	10.6	25.8		0.615	
						Hexa-CBs	9.22	16		0.564	
						Hepta-CBs	0	0		0.792	
						Octa-CBs	0	0		0.758	
						Nona-CBs	0	0		1.74	
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00		0.95	ND	4.27E+03	0.846
PCB-2 3-MoCB	NotFnd		0.9880	-		0.00E+00		1.16	ND	4.27E+03	0.767
PCB-3 4-MoCB	NotFnd		1.0009	-		0.00E+00		1.01	ND	4.27E+03	0.885
PCB-4 22'-DiCB	NotFnd		1.0011	-		0.00E+00		1.23	ND	7.21E+03	2.04
PCB-10 26'-DiCB	NotFnd		1.0135	-		0.00E+00		1.87	ND	7.21E+03	1.35
PCB-9 25'-DiCB	NotFnd		1.0010	-		0.00E+00		0.98	ND	8.73E+03	1.82
PCB-7 24'-DiCB	NotFnd		1.0111	-		0.00E+00		1.10	ND	8.73E+03	1.62
PCB-6 23'-DiCB	NotFnd		1.0250	-		0.00E+00		1.03	ND	8.73E+03	1.73
PCB-5 23'-DiCB	NotFnd		1.0435	-		0.00E+00		1.04	ND	8.73E+03	1.71
PCB-8 24'-DiCB	NotFnd		1.0507	-		0.00E+00		1.07	ND	8.73E+03	1.66
PCB-14 35'-DiCB	NotFnd		0.9331	-		0.00E+00		1.23	ND	8.73E+03	1.44
PCB-11 33'-DiCB	19.46		0.9720	0.9721	+0.1	4.92E+05	SI	1.07	10.2	8.73E+03	1.66
PCB-13/12 34' /34'-DiCB	NotFnd	C	0.9866	-		0.00E+00		1.07	ND	8.73E+03	1.66
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.02	ND	8.73E+03	1.74
PCB-19 22'6-TrCB	NotFnd		1.0010	-		0.00E+00		1.15	ND	6.82E+03	2.25
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1017	-		0.00E+00		1.51	ND	6.82E+03	1.71
PCB-17 22'4-TrCB	NotFnd		1.1247	-		0.00E+00		1.28	ND	6.82E+03	2.02
PCB-27 23'6-TrCB	NotFnd		1.1357	-		0.00E+00		1.77	ND	6.82E+03	1.46
PCB-24 236-TrCB	NotFnd		1.1435	-		0.00E+00		1.72	ND	6.82E+03	1.5
PCB-16 22'3-TrCB	NotFnd		1.1489	-		0.00E+00		0.94	ND	6.82E+03	2.76



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1763	-		0.00E+00		1.88	ND	6.82E+03	1.37
PCB-34 23'5'-TrCB	NotFnd		0.8211	-		0.00E+00		1.23	ND	7.80E+03	1.64
PCB-23 235-TrCB	NotFnd		0.8268	-		0.00E+00		1.25	ND	7.80E+03	1.62
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8375	-		0.00E+00		1.28	ND	7.80E+03	1.59
PCB-25 23'4-TrCB	NotFnd		0.8451	-		0.00E+00		1.30	ND	7.80E+03	1.56
PCB-31 24'5-TrCB	22.52	J	0.8556	0.8554	-0.3	1.02E+05	1.16	1.33	2.06	7.80E+03	1.53
PCB-28/20 244'/233'-TrCB	22.80	J C	0.8663	0.8660	-0.4	1.33E+05	0.90	1.24	2.88	7.80E+03	1.64
PCB-21/33 234/23'4'-TrCB	NotFnd	C	0.8732	-		0.00E+00		1.28	ND	7.80E+03	1.58
PCB-22 234'-TrCB	NotFnd		0.8875	-		0.00E+00		1.19	ND	7.80E+03	1.71
PCB-36 33'5-TrCB	NotFnd		0.9397	-		0.00E+00		1.30	ND	7.80E+03	1.56
PCB-39 34'5-TrCB	NotFnd		0.9520	-		0.00E+00		1.36	ND	7.80E+03	1.5
PCB-38 345-TrCB	NotFnd		0.9721	-		0.00E+00		1.20	ND	7.80E+03	1.69
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.16	ND	7.80E+03	1.75
PCB-37 344'-TrCB	NotFnd		1.0008	-		0.00E+00		1.08	ND	7.80E+03	1.88
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	3.10E+03	0.851
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9141	-		0.00E+00		0.88	ND	3.21E+03	1.14
PCB-45 22'36-TeCB	NotFnd		0.9381	-		0.00E+00		0.71	ND	3.21E+03	1.42
PCB-51 22'46'-TeCB	NotFnd		0.9410	-		0.00E+00		0.95	ND	3.21E+03	1.06
PCB-46 22'36'-TeCB	NotFnd		0.9497	-		0.00E+00		0.70	ND	3.21E+03	1.43
PCB-52 22'55'-TeCB	24.41	J	1.0009	1.0008	-0.1	1.47E+05	0.80	0.87	5.29	3.21E+03	1.16
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.17	ND	3.21E+03	0.861
PCB-43 22'35-TeCB	NotFnd		1.0102	-		0.00E+00		0.70	ND	3.21E+03	1.43
PCB-69/49 23'46/22'45'-TeCB	24.85	J C	1.0181	1.0188	+1.0	7.07E+04	0.76	1.05	2.11	3.21E+03	0.959
PCB-48 22'45-TeCB	NotFnd		1.0296	-		0.00E+00		0.86	ND	3.21E+03	1.17
PCB-44/47/65 ...-TeCB	25.31	J EMPC C	1.0385	1.0378	-1.1	1.06E+05	0.92	0.92	3.59	3.21E+03	1.09
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0498	-		0.00E+00		1.20	ND	3.21E+03	0.836
PCB-42 22'34'-TeCB	NotFnd		1.0566	-		0.00E+00		0.79	ND	3.21E+03	1.28
PCB-41 22'34-TeCB	NotFnd		1.0702	-		0.00E+00		0.67	ND	3.21E+03	1.49
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0741	-		0.00E+00		0.90	ND	3.21E+03	1.11
PCB-64 234'6-TeCB	NotFnd		1.0823	-		0.00E+00		1.28	ND	3.21E+03	0.785
PCB-72 23'55'-TeCB	NotFnd		0.8429	-		0.00E+00		1.20	ND	4.10E+03	1.07
PCB-68 23'45'-TeCB	NotFnd		0.8509	-		0.00E+00		1.25	ND	4.10E+03	1.02
PCB-57 233'5-TeCB	NotFnd		0.8624	-		0.00E+00		1.15	ND	4.10E+03	1.12
PCB-58 233'5'-TeCB	NotFnd		0.8687	-		0.00E+00		1.19	ND	4.10E+03	1.08
PCB-67 23'45-TeCB	NotFnd		0.8736	-		0.00E+00		1.24	ND	4.10E+03	1.04
PCB-63 234'5-TeCB	NotFnd		0.8806	-		0.00E+00		1.29	ND	4.10E+03	0.993
PCB-61/70/74/76 ...-TeCB	28.61	J C	0.8897	0.8896	-0.2	1.51E+05	0.70	1.18	4.02	4.10E+03	1.09
PCB-66 23'44'-TeCB	28.90	J	0.8984	0.8986	+0.3	6.72E+04	0.70	1.11	1.89	4.10E+03	1.16
PCB-55 233'4-TeCB	NotFnd		0.9030	-		0.00E+00		1.10	ND	4.10E+03	1.16
PCB-56 233'4'-TeCB	NotFnd		0.9165	-		0.00E+00		1.09	ND	4.10E+03	1.17
PCB-60 2344'-TeCB	NotFnd		0.9225	-		0.00E+00		1.12	ND	4.10E+03	1.14
PCB-80 33'55'-TeCB	NotFnd		0.9326	-		0.00E+00		1.31	ND	4.10E+03	0.979
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.29	ND	4.10E+03	0.997
PCB-78 33'45-TeCB	NotFnd		0.9888	-		0.00E+00		1.07	ND	4.10E+03	1.19
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.48E+03	0.415
PCB-96 22'366'-PeCB	NotFnd		1.0135	-		0.00E+00		1.16	ND	1.48E+03	0.513
PCB-103 22'45'6-PeCB	NotFnd		0.8985	-		0.00E+00		0.93	ND	1.95E+03	0.741
PCB-94 22'356'-PeCB	NotFnd		0.9048	-		0.00E+00		0.77	ND	1.95E+03	0.888

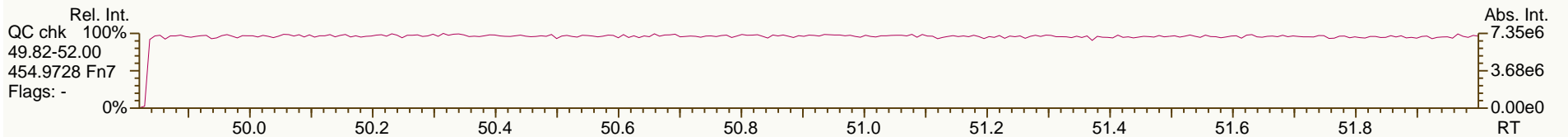
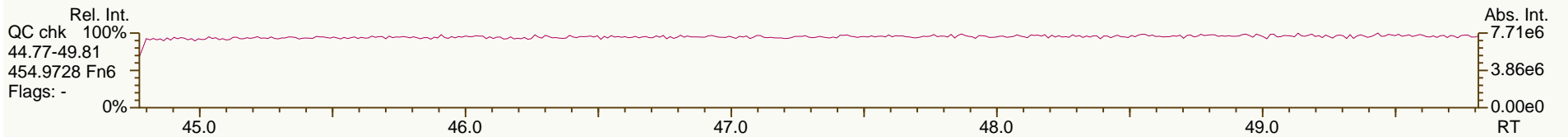
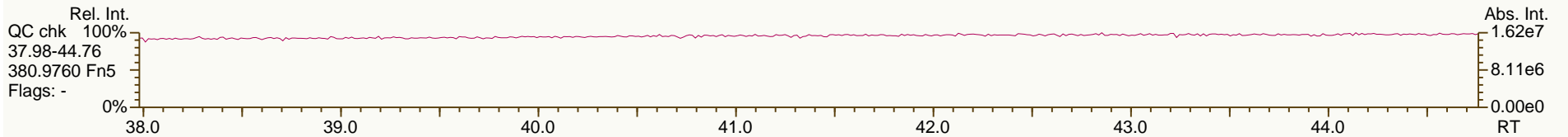
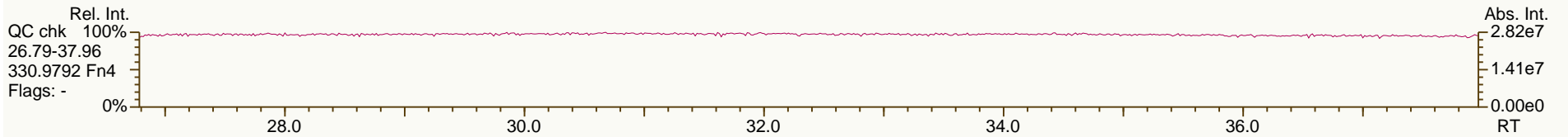
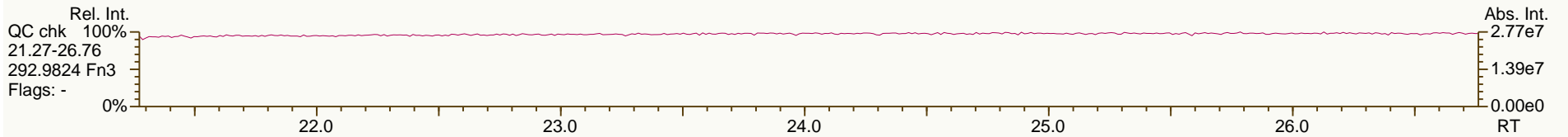
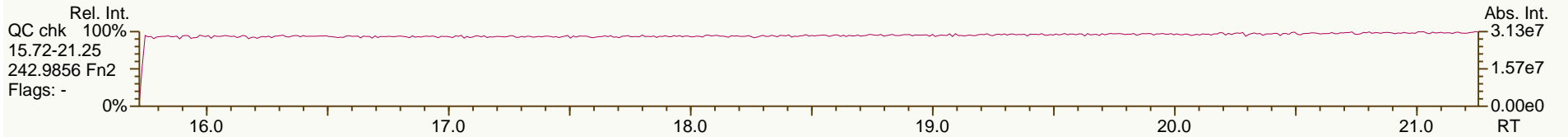
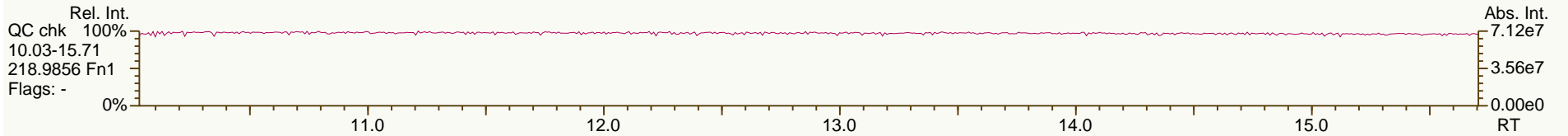
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PCB-95 22'35'6-PeCB	27.86	J	0.9173	0.9174	+0.2	1.13E+05	0.61	0.85	4.79	1.95E+03	0.809
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9243	-		0.00E+00		0.83	ND	1.95E+03	0.829
PCB-102 22'456'-PeCB	NotFnd		0.9278	-		0.00E+00		0.97	ND	1.95E+03	0.71
PCB-98 22'34'6'-PeCB	NotFnd		0.9301	-		0.00E+00		0.76	ND	1.95E+03	0.902
PCB-88 22'346-PeCB	NotFnd		0.9402	-		0.00E+00		0.72	ND	1.95E+03	0.952
PCB-91 22'34'6-PeCB	NotFnd		0.9423	-		0.00E+00		0.97	ND	1.95E+03	0.711
PCB-84 22'33'6-PeCB	NotFnd		0.9486	-		0.00E+00		0.70	ND	1.95E+03	0.978
PCB-89 22'346'-PeCB	NotFnd		0.9623	-		0.00E+00		0.75	ND	1.95E+03	0.914
PCB-121 23'45'6-PeCB	NotFnd		0.9735	-		0.00E+00		1.19	ND	1.95E+03	0.577
PCB-92 22'355'-PeCB	NotFnd		0.9840	-		0.00E+00		0.81	ND	1.95E+03	0.851
PCB-113/90/101 ...-PeCB	30.39	J EMPC C	0.9999	1.0008	+1.6	1.17E+05	0.51	0.96	4.4	1.95E+03	0.716
PCB-83 22'33'5-PeCB	NotFnd		1.0144	-		0.00E+00		0.69	ND	1.95E+03	1
PCB-99 22'44'5-PeCB	30.89	J EMPC	1.0175	1.0174	-0.2	4.76E+04	0.83	0.88	1.95	1.95E+03	0.782
PCB-112 233'56-PeCB	NotFnd		1.0208	-		0.00E+00		1.16	ND	1.95E+03	0.591
PCB-108/119/86/97/125...-PeCB	31.38	J C	1.0321	1.0335	+2.6	1.12E+05	0.66	0.97	4.19	1.95E+03	0.713
PCB-117 234'56-PeCB	NotFnd		1.0496	-		0.00E+00		1.17	ND	1.95E+03	0.586
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0527	-		0.00E+00		0.89	ND	1.95E+03	0.773
PCB-110 233'4'6-PeCB	32.09	J EMPC	1.0566	1.0566	0	1.76E+05	0.51	1.06	5.96	1.95E+03	0.647
PCB-115 2344'6-PeCB	NotFnd		1.0594	-		0.00E+00		1.20	ND	1.95E+03	0.574
PCB-82 22'33'4-PeCB	NotFnd		1.0659	-		0.00E+00		0.68	ND	1.95E+03	1.01
PCB-111 233'55'-PeCB	NotFnd		1.0761	-		0.00E+00		1.20	ND	1.95E+03	0.573
PCB-120 23'455'-PeCB	NotFnd		1.0892	-		0.00E+00		1.21	ND	1.95E+03	0.567
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.09	ND	1.95E+03	0.629
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.22	ND	1.95E+03	0.566
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.10	ND	1.95E+03	0.628
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	1.95E+03	0.718
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.10	ND	1.95E+03	0.648
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.47E+03	0.387
PCB-152 22'3566'-HxCB	NotFnd		1.0062	-		0.00E+00		1.09	ND	1.47E+03	0.446
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.10	ND	1.47E+03	0.445
PCB-136 22'33'66'-HxCB	30.83	J	1.0210	1.0210	0	1.97E+04	1.31	1.02	0.662	1.47E+03	0.481
PCB-145 22'3466'-HxCB	NotFnd		1.0299	-		0.00E+00		1.05	ND	1.47E+03	0.467
PCB-148 22'34'56'-HxCB	NotFnd		1.0719	-		0.00E+00		1.08	ND	1.47E+03	0.675
PCB-151/135 ...-HxCB	32.89	J EMPC C	1.0891	1.0890	-0.2	3.48E+04	1.72	1.04	1.64	1.47E+03	0.704
PCB-154 22'44'56'-HxCB	NotFnd		1.0960	-		0.00E+00		1.22	ND	1.47E+03	0.599
PCB-144 22'345'6-HxCB	NotFnd		1.1048	-		0.00E+00		1.08	ND	1.47E+03	0.678
PCB-147/149 ...-HxCB	33.66	J EMPC C	1.1148	1.1147	-0.2	7.93E+04	1.45	1.07	3.63	1.47E+03	0.683
PCB-134 22'33'56-HxCB	NotFnd		1.1205	-		0.00E+00		0.88	ND	1.47E+03	0.832
PCB-143 22'3456'-HxCB	NotFnd		1.1231	-		0.00E+00		0.99	ND	1.47E+03	0.738
PCB-139/140 ...-HxCB	NotFnd	C	1.1319	-		0.00E+00		1.10	ND	1.47E+03	0.664
PCB-131 22'33'46-HxCB	NotFnd		1.1377	-		0.00E+00		0.93	ND	1.47E+03	0.788
PCB-142 22'3456-HxCB	NotFnd		1.1425	-		0.00E+00		0.92	ND	1.47E+03	0.797
PCB-132 22'33'46'-HxCB	34.74	J EMPC	1.1502	1.1505	+0.6	2.96E+04	0.82	0.95	1.52	1.47E+03	0.768
PCB-133 22'33'55'-HxCB	NotFnd		1.1636	-		0.00E+00		1.01	ND	1.47E+03	0.725
PCB-165 233'55'6-HxCB	NotFnd		0.9523	-		0.00E+00		1.31	ND	1.47E+03	0.558
PCB-146 22'34'55'-HxCB	35.68	J	0.9580	0.9577	-0.6	2.50E+04	1.26	1.11	1.1	1.47E+03	0.655
PCB-161 233'45'6-HxCB	NotFnd		0.9612	-		0.00E+00		1.41	ND	1.47E+03	0.518
PCB-153/168 ...-HxCB	36.22	J C	0.9727	0.9721	-1.3	9.76E+04	1.20	1.38	3.47	1.47E+03	0.53

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9766	-		0.00E+00		1.01	ND	1.47E+03	0.726
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.89	ND	1.47E+03	0.82
PCB-137 22'344'5'-HxCB	NotFnd		0.9912	-		0.00E+00		1.07	ND	1.47E+03	0.682
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9934	-		0.00E+00		1.42	ND	1.47E+03	0.515
PCB-163/138/129 ...-HxCB	37.28	J C	1.0011	1.0007	-0.9	9.04E+04	1.27	1.11	3.99	1.47E+03	0.657
PCB-160 233'456-HxCB	NotFnd		1.0049	-		0.00E+00		1.32	ND	1.47E+03	0.552
PCB-158 233'44'6'-HxCB	NotFnd		1.0097	-		0.00E+00		1.50	ND	1.47E+03	0.485
PCB-128/166 ...-HxCB	NotFnd	C	0.9639	-		0.00E+00		0.89	ND	1.46E+03	0.681
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.46E+03	0.564
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.46E+03	0.571
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.31E+03	0.511
PCB-179 22'33'566'-HpCB	NotFnd		1.0087	-		0.00E+00		1.08	ND	1.31E+03	0.598
PCB-184 22'344'66'-HpCB	NotFnd		1.0217	-		0.00E+00		1.02	ND	1.31E+03	0.634
PCB-176 22'33'466'-HpCB	NotFnd		1.0302	-		0.00E+00		1.13	ND	1.31E+03	0.576
PCB-186 22'34566'-HpCB	NotFnd		1.0415	-		0.00E+00		1.07	ND	1.31E+03	0.606
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0736	-		0.00E+00		0.75	ND	1.31E+03	0.859
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0891	-		0.00E+00		1.06	ND	1.67E+03	0.918
PCB-187 22'34'55'6'-HpCB	NotFnd		1.0956	-		0.00E+00		1.14	ND	1.67E+03	0.856
PCB-182 22'344'56'-HpCB	NotFnd		1.1007	-		0.00E+00		1.16	ND	1.67E+03	0.843
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1105	-		0.00E+00		1.16	ND	1.67E+03	0.841
PCB-185 22'3455'6'-HpCB	NotFnd		1.1129	-		0.00E+00		1.11	ND	1.67E+03	0.881
PCB-174 22'33'456'-HpCB	NotFnd		1.1160	-		0.00E+00		0.94	ND	1.67E+03	1.04
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1268	-		0.00E+00		0.93	ND	1.67E+03	1.04
PCB-181 22'344'56-HpCB	NotFnd		1.1366	-		0.00E+00		1.08	ND	1.67E+03	0.902
PCB-171/173 ...-HpCB	NotFnd	C	1.1419	-		0.00E+00		0.93	ND	1.67E+03	1.04
PCB-172 22'33'455'-HpCB	NotFnd		0.9077	-		0.00E+00		0.97	ND	1.67E+03	1.01
PCB-192 233'455'6'-HpCB	NotFnd		0.9131	-		0.00E+00		1.29	ND	1.67E+03	0.754
PCB-180/193 ...-HpCB	NotFnd	C	0.9191	-		0.00E+00		1.23	ND	1.67E+03	0.793
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9264	-		0.00E+00		1.36	ND	1.67E+03	0.718
PCB-170 22'33'44'5'-HpCB	NotFnd		0.9433	-		0.00E+00		1.11	ND	1.67E+03	1.06
PCB-190 233'44'56-HpCB	NotFnd		0.9531	-		0.00E+00		1.60	ND	1.67E+03	0.731
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.16E+03	0.604
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.16E+03	0.57
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.04	ND	1.16E+03	0.609
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0396	-		0.00E+00		1.19	ND	1.16E+03	0.536
PCB-200 22'33'4566'-OcCB	NotFnd		1.0419	-		0.00E+00		0.99	ND	1.16E+03	0.642
PCB-198/199 ...-OcCB	NotFnd	C	1.1005	-		0.00E+00		0.73	ND	1.16E+03	0.874
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1150	-		0.00E+00		0.77	ND	1.16E+03	0.825
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1192	-		0.00E+00		0.80	ND	1.16E+03	0.798
PCB-195 22'33'44'56-OcCB	NotFnd		0.9515	-		0.00E+00		0.70	ND	1.49E+03	1.37
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.78	ND	1.49E+03	1.24
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.49E+03	0.912
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.67E+03	1.42
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0179	-		0.00E+00		1.14	ND	2.67E+03	1.39
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.67E+03	2.07

SGS ID: MB1\_11906\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 21

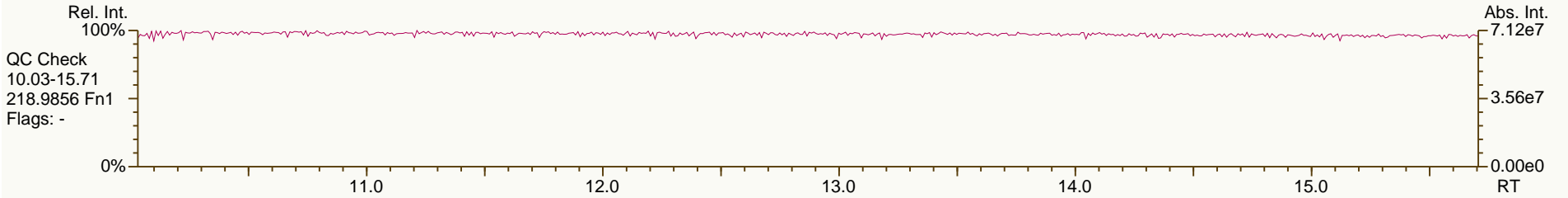
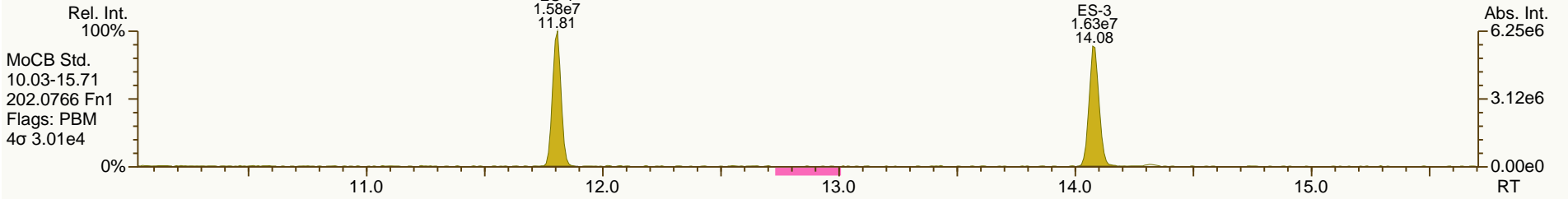
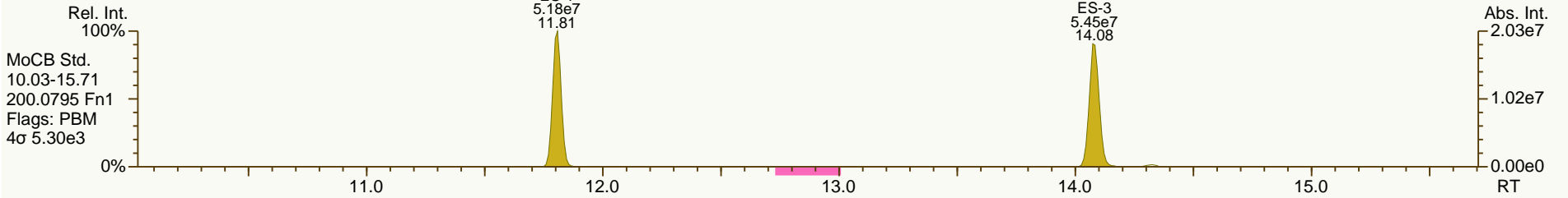
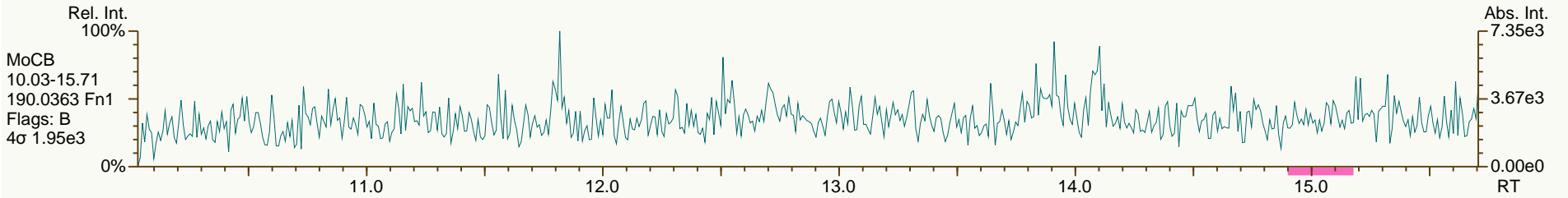
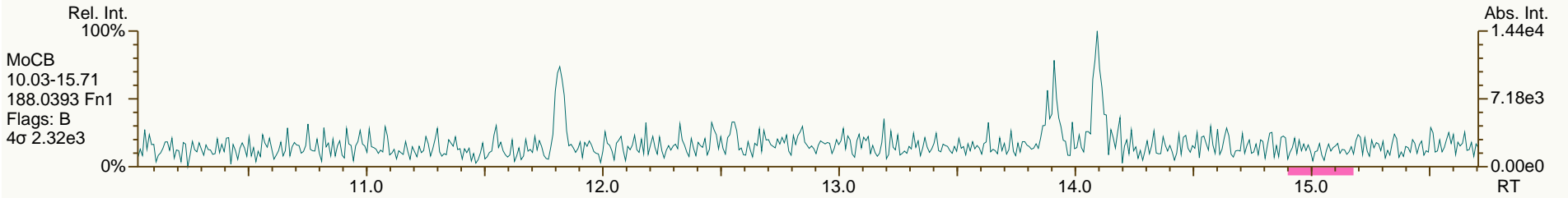
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 21

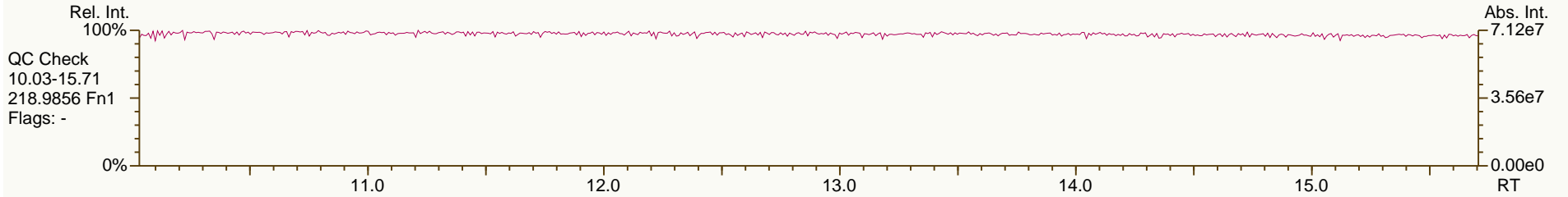
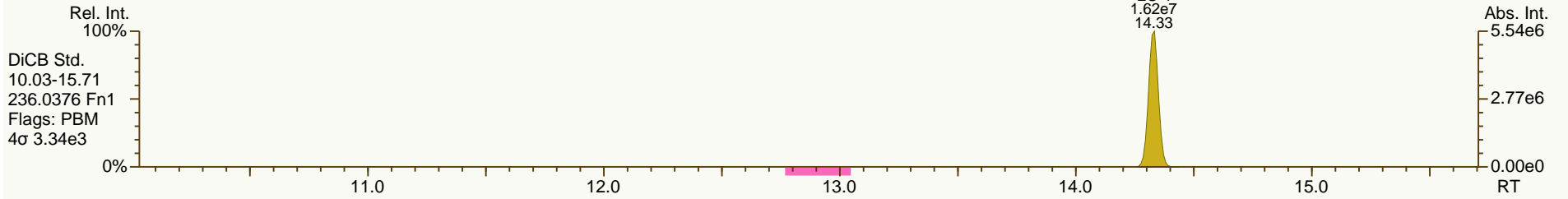
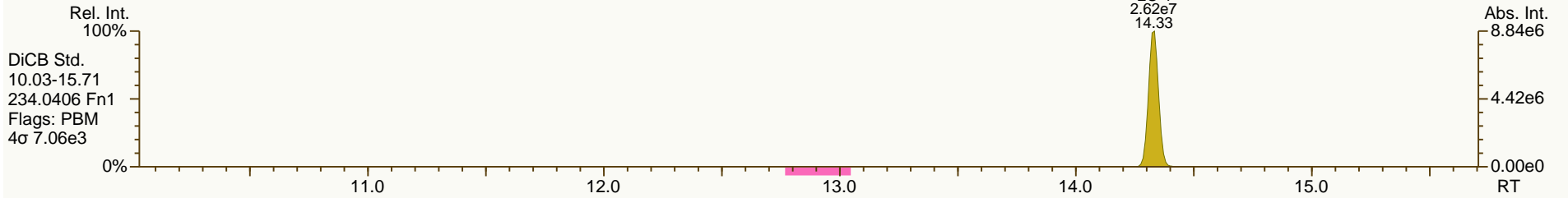
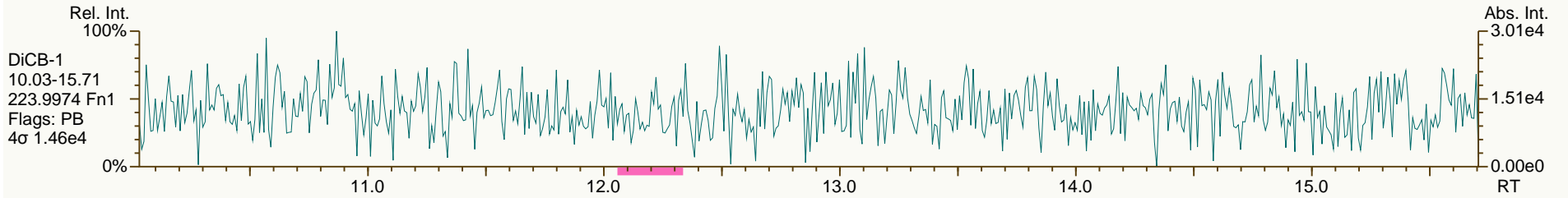
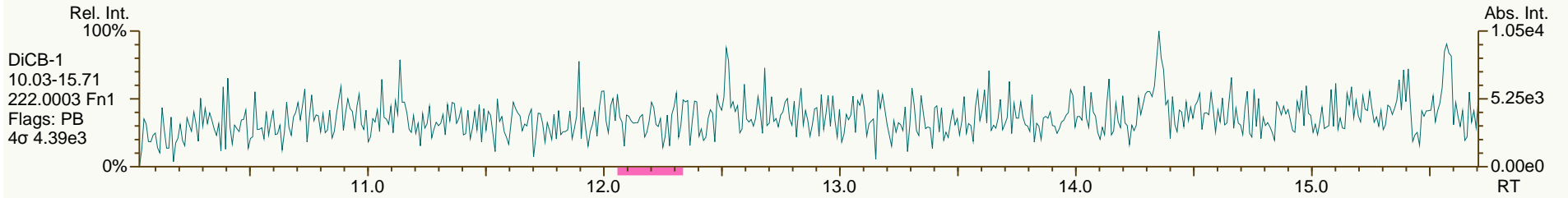
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 21

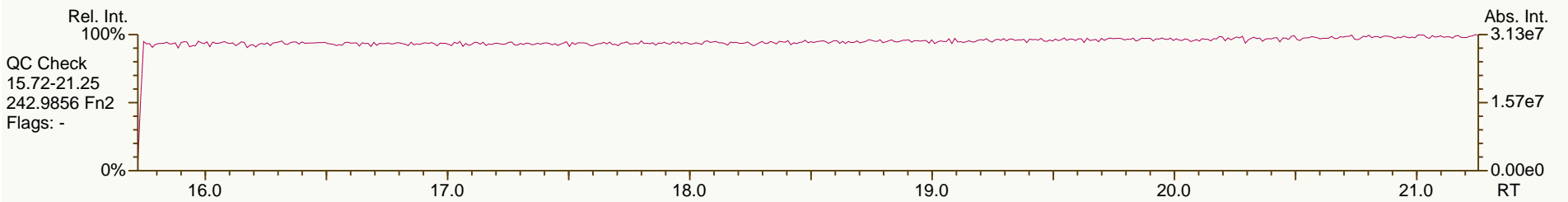
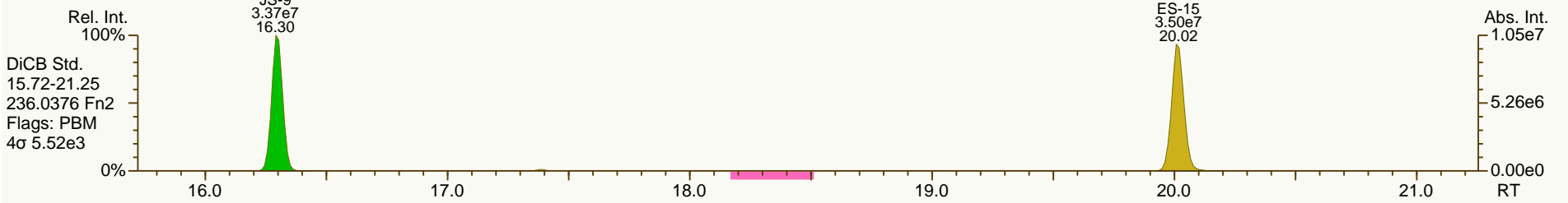
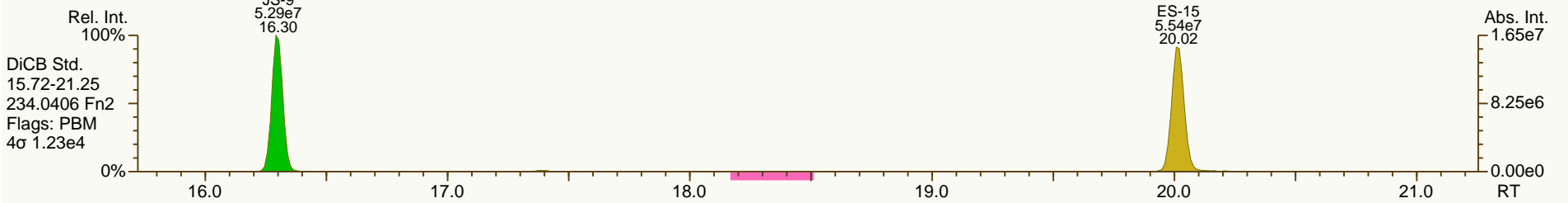
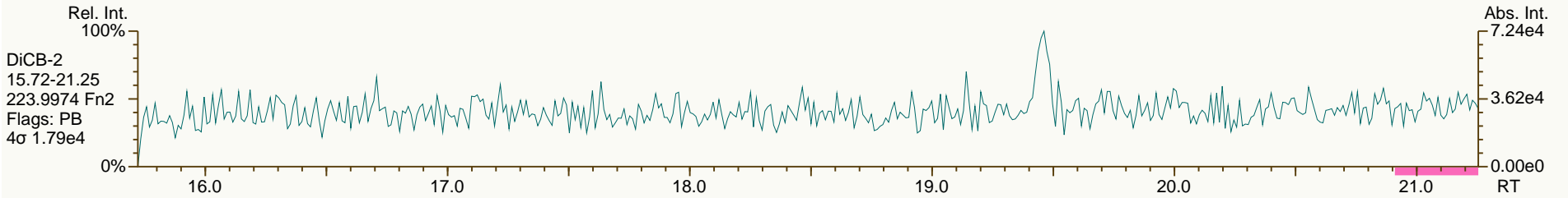
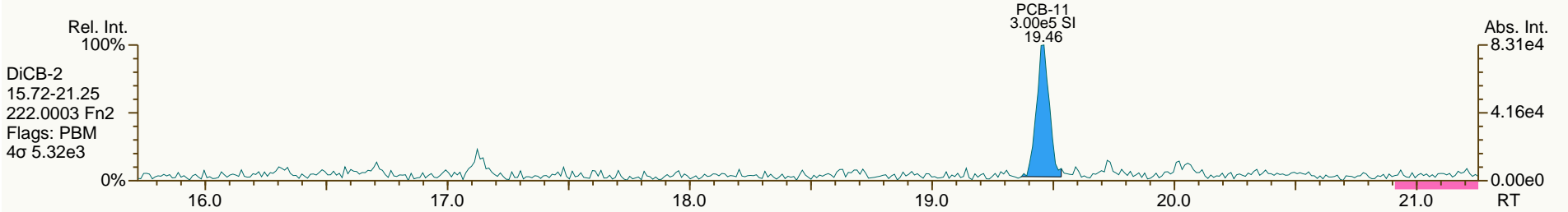
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 21

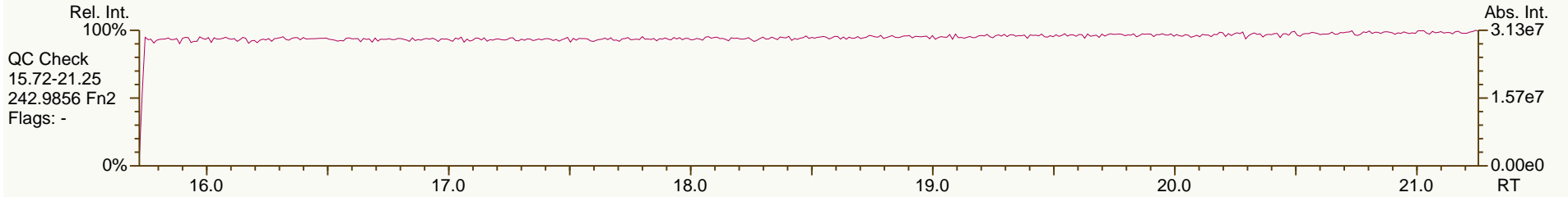
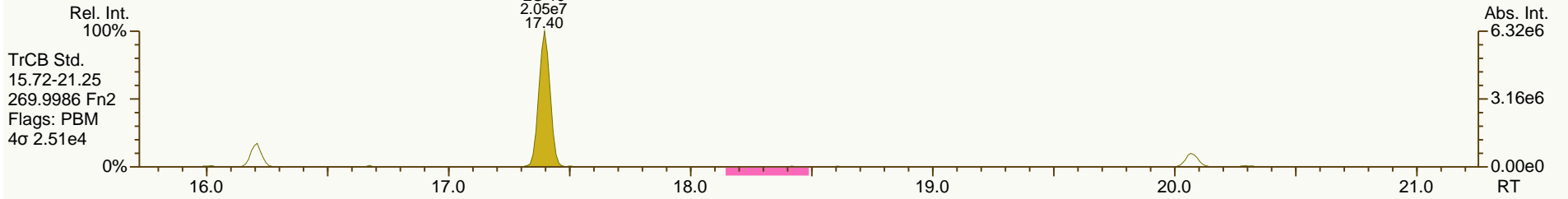
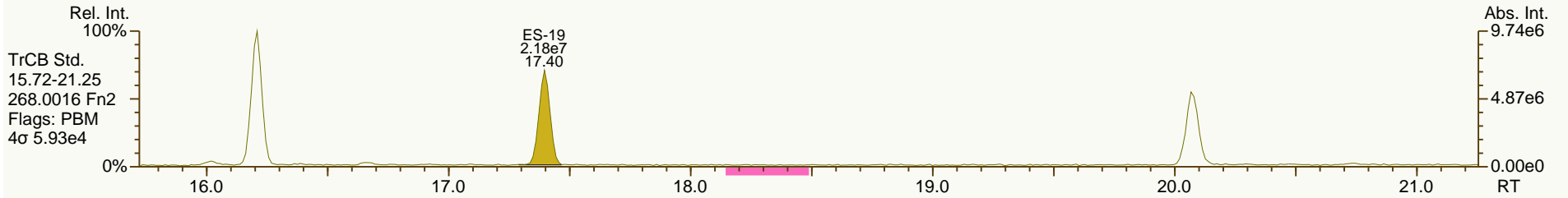
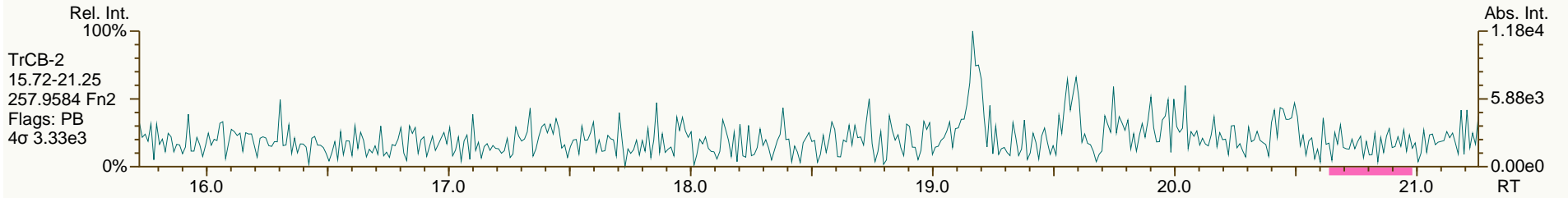
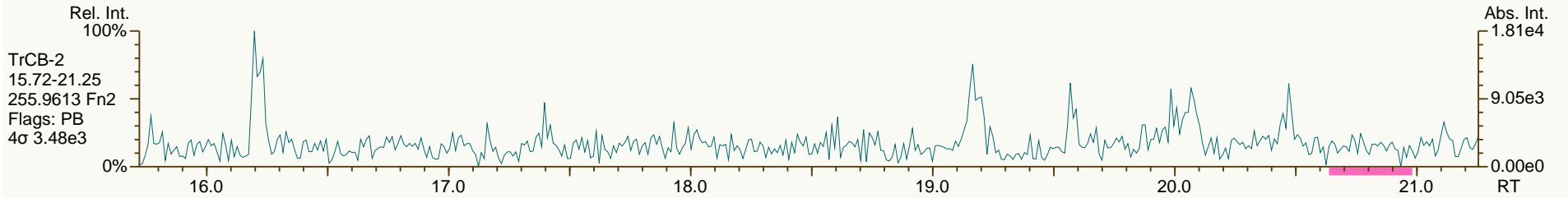
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 21

Acq: 03-Apr-2014 17:21:41  
User: LKB Datafile: 140403X06

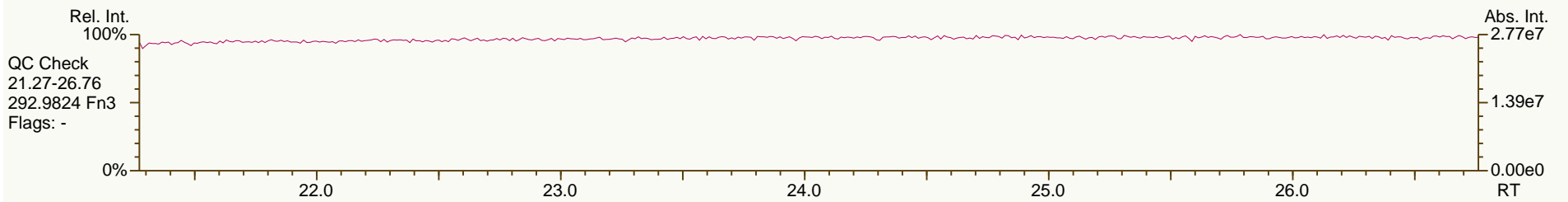
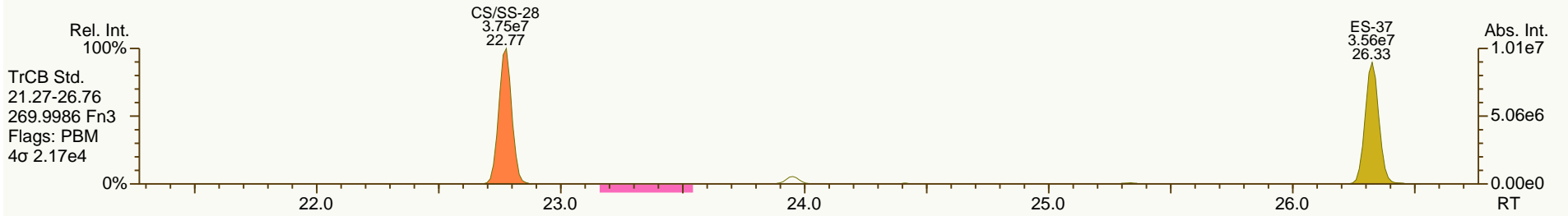
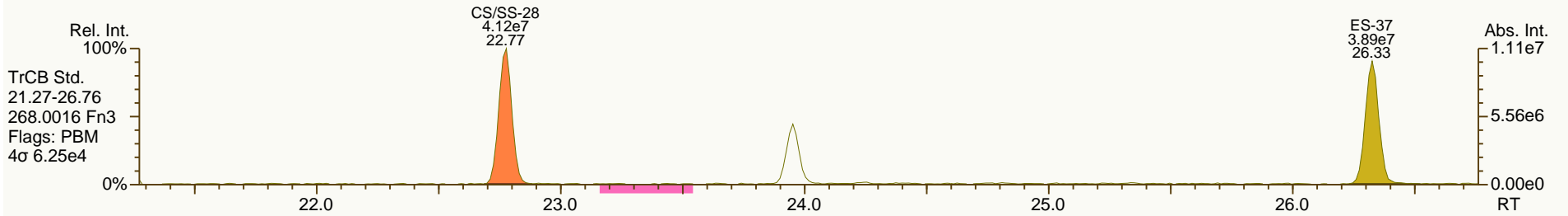
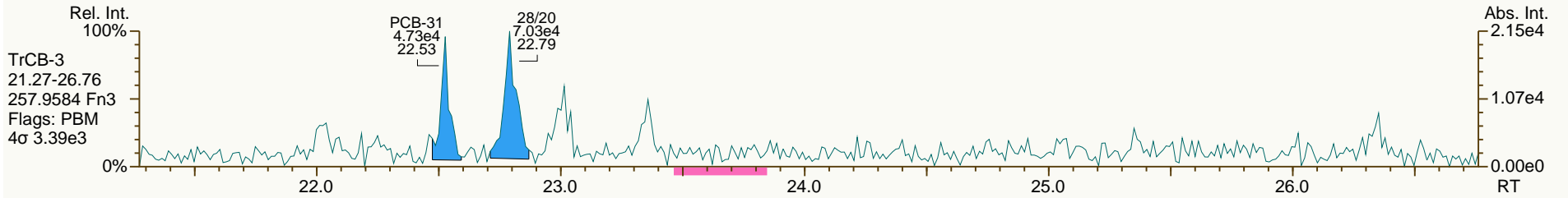
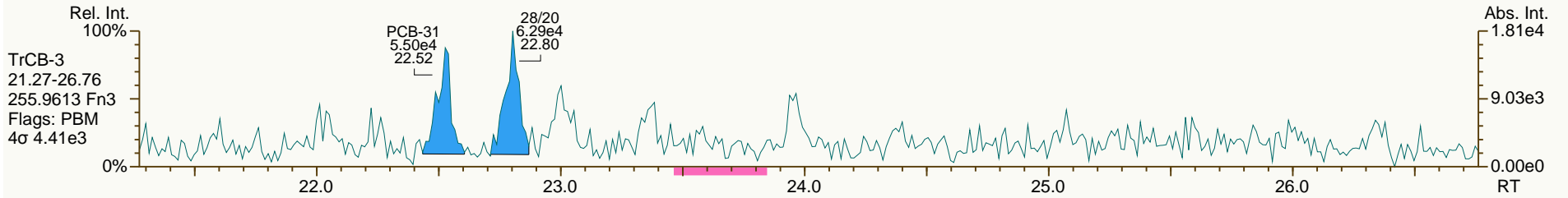




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 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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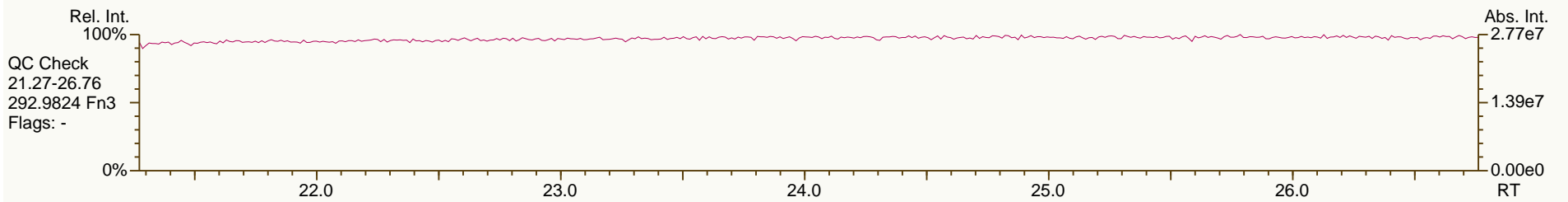
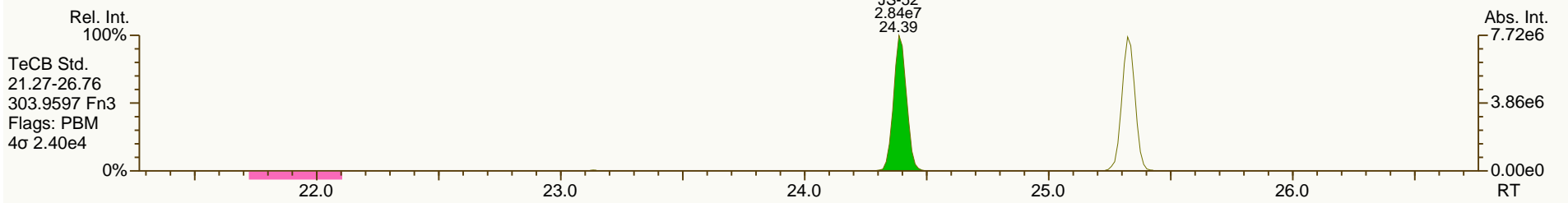
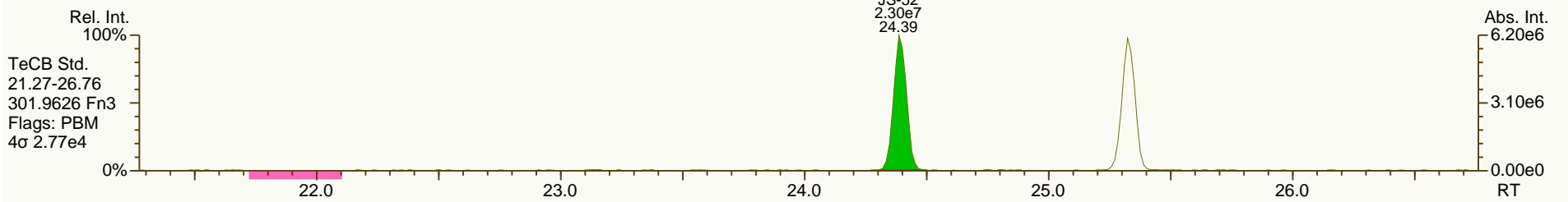
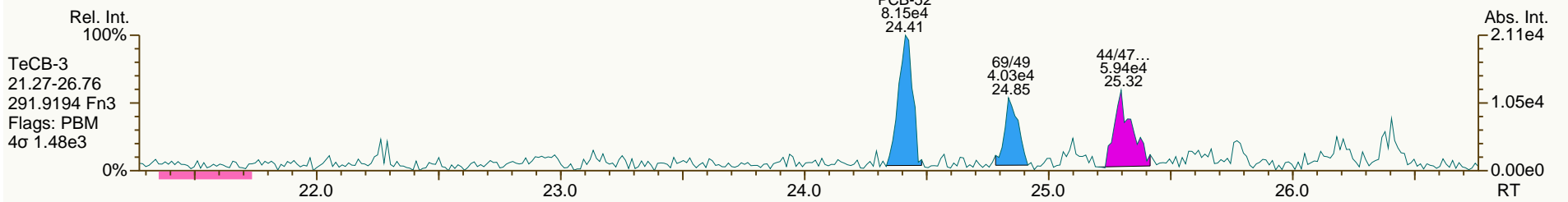
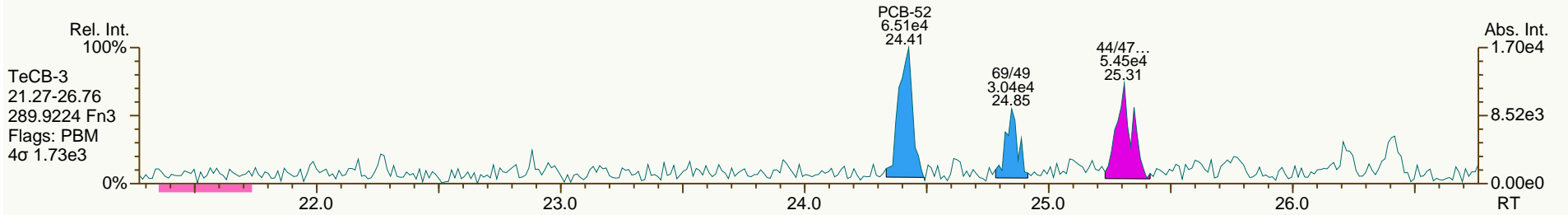
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Sample ID: Method Blank  
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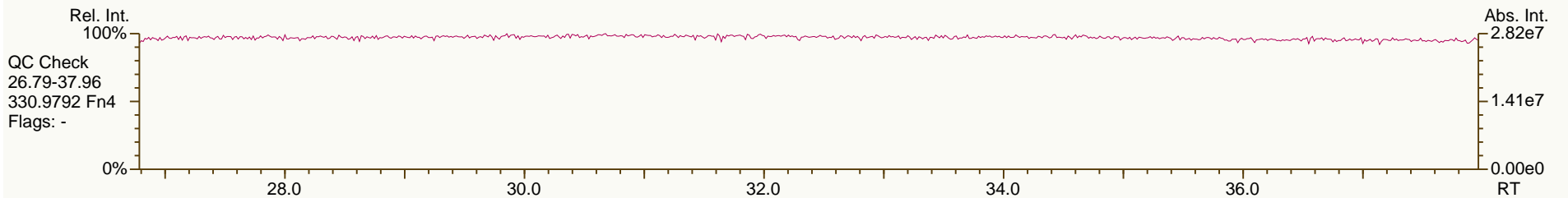
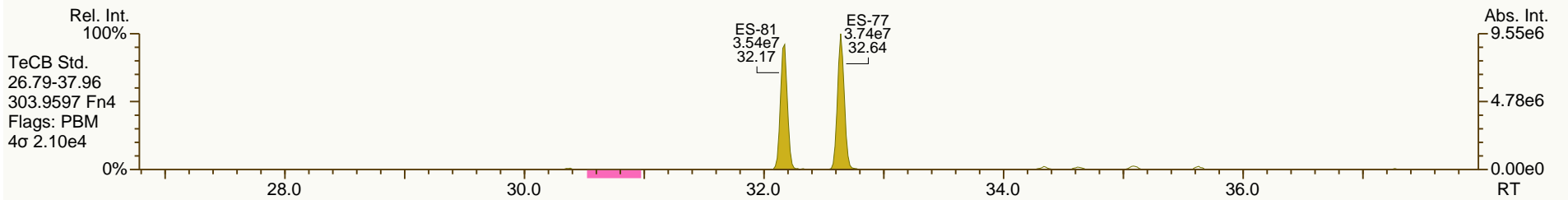
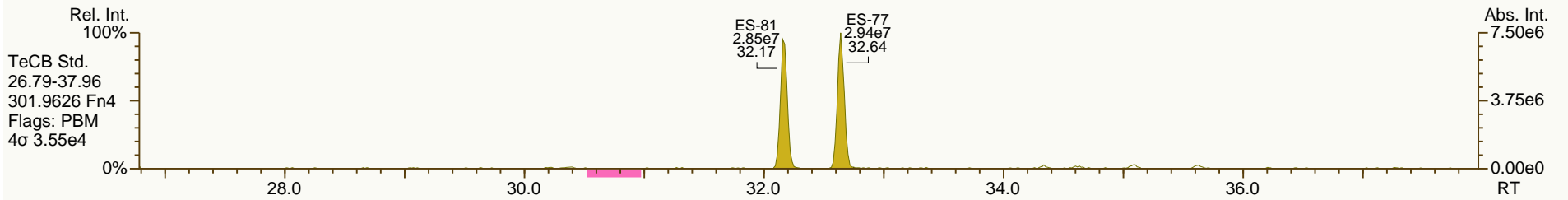
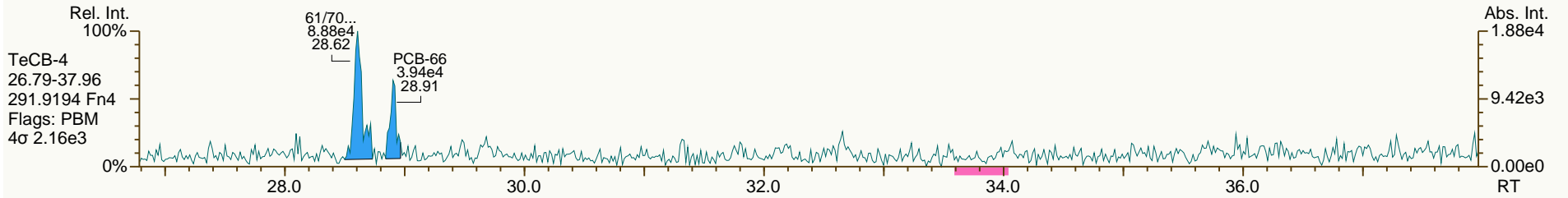
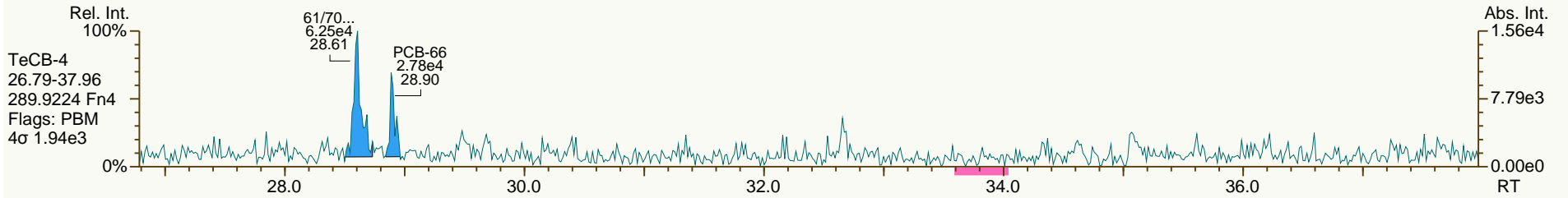
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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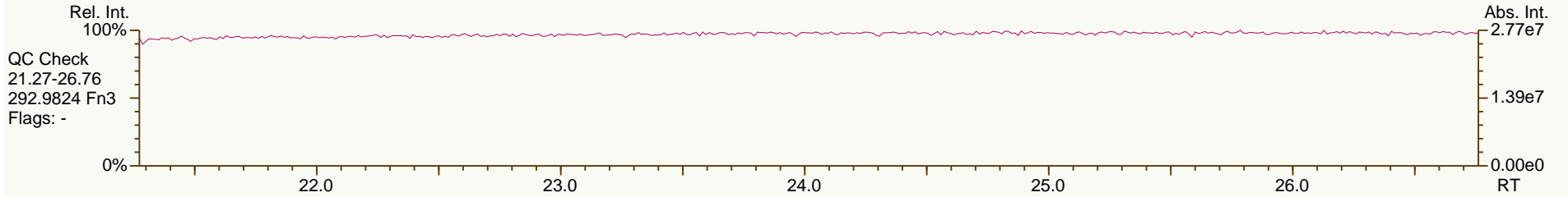
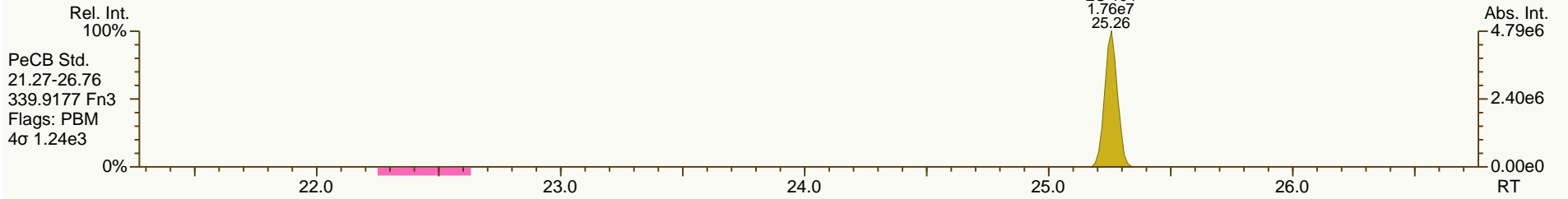
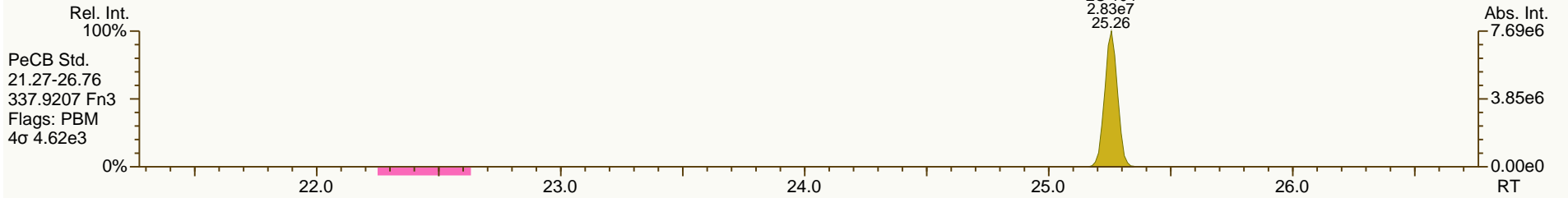
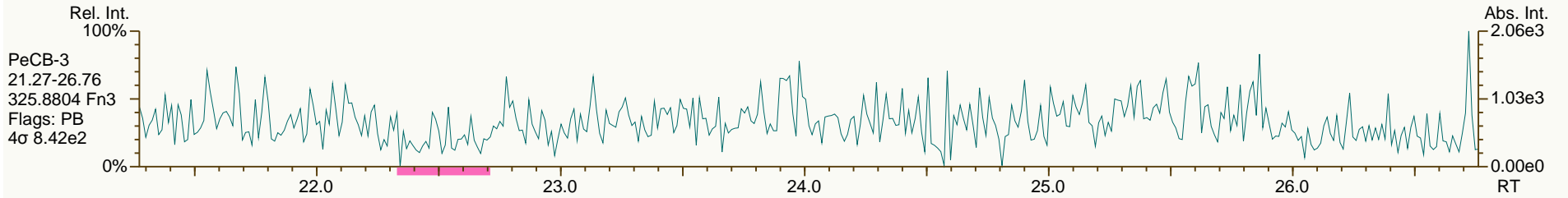
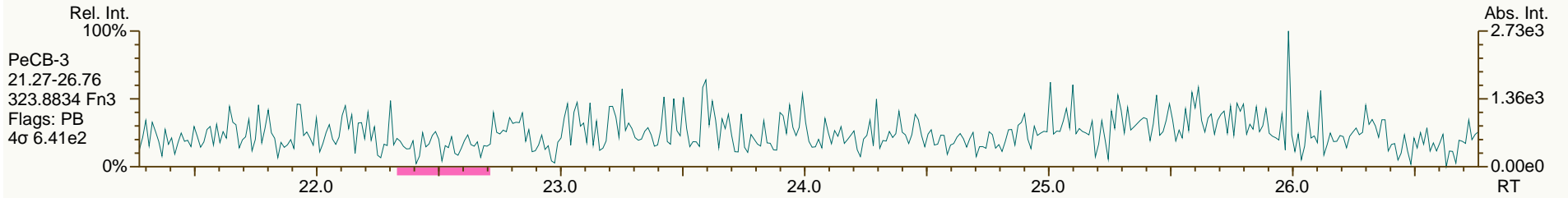
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Sample ID: Method Blank  
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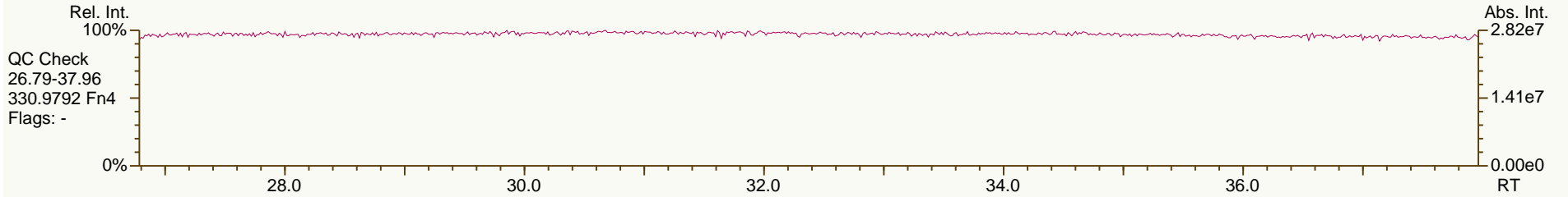
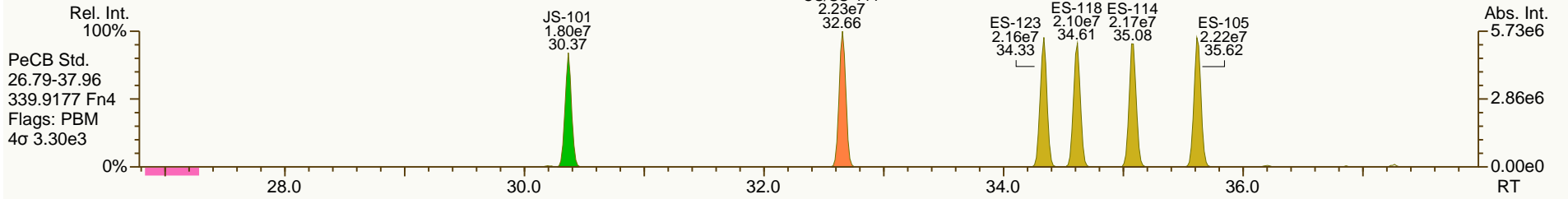
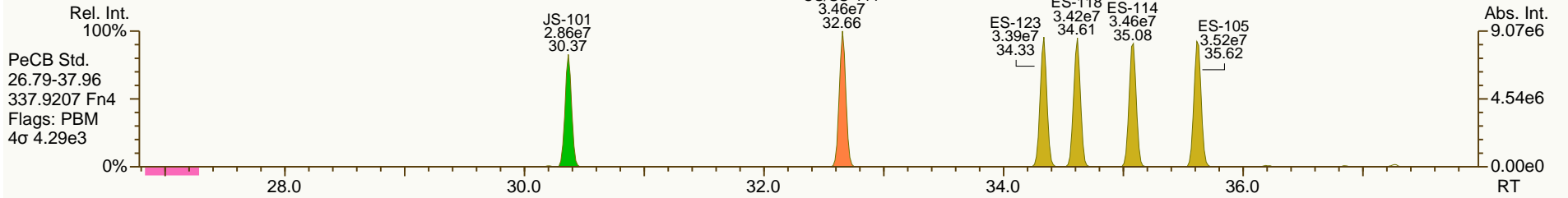
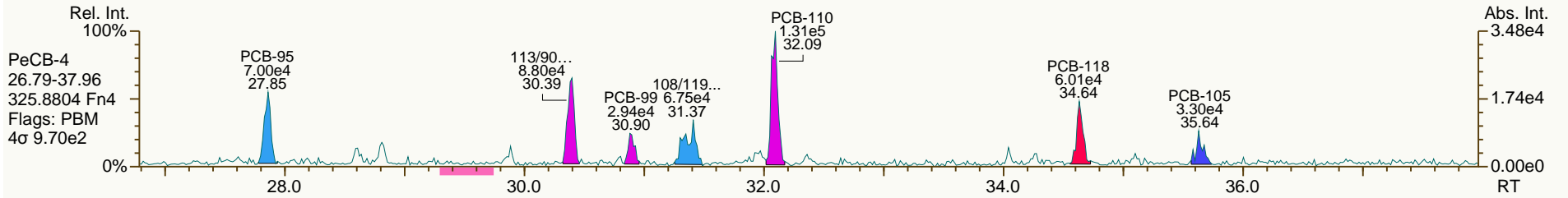
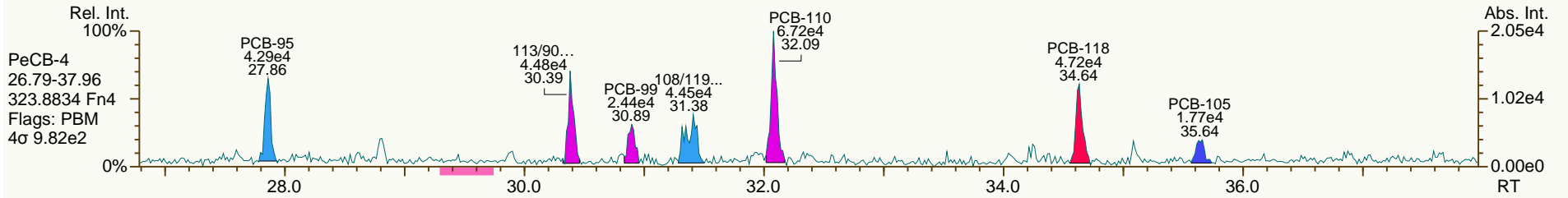
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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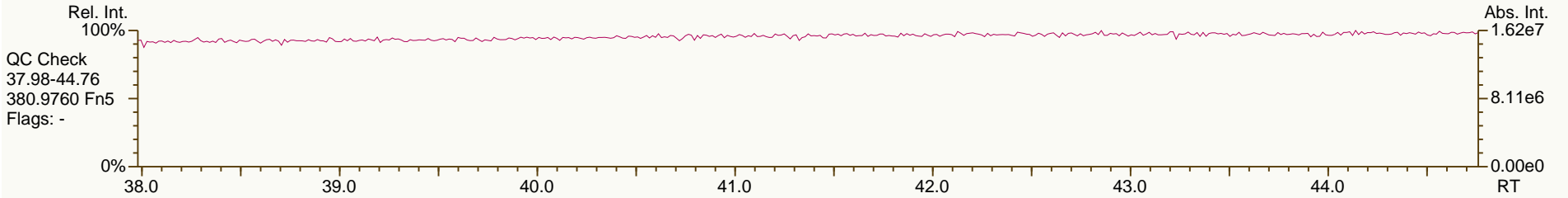
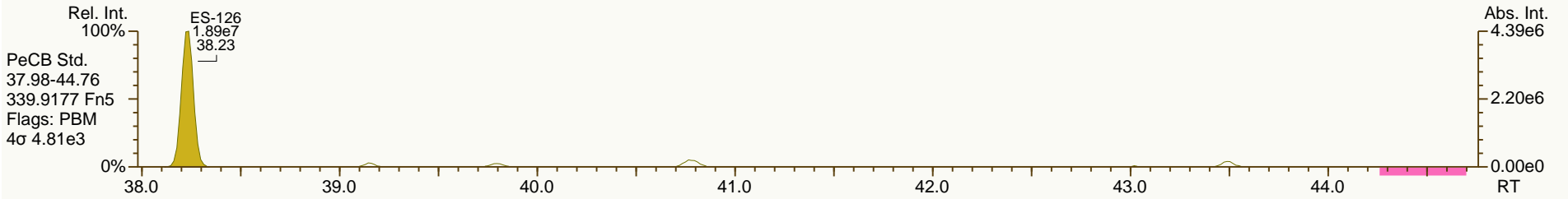
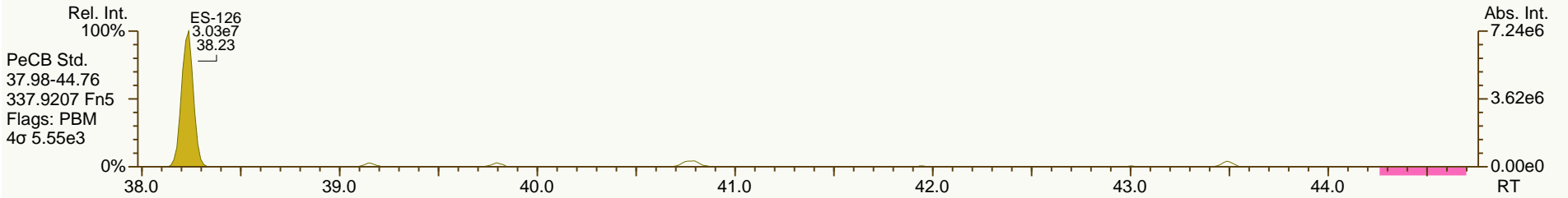
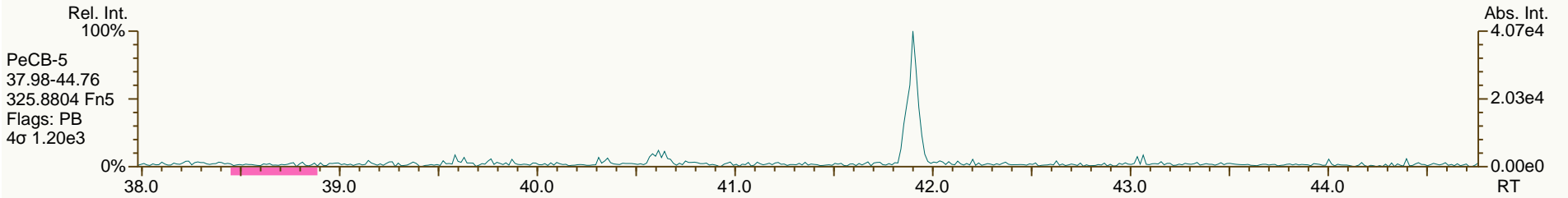
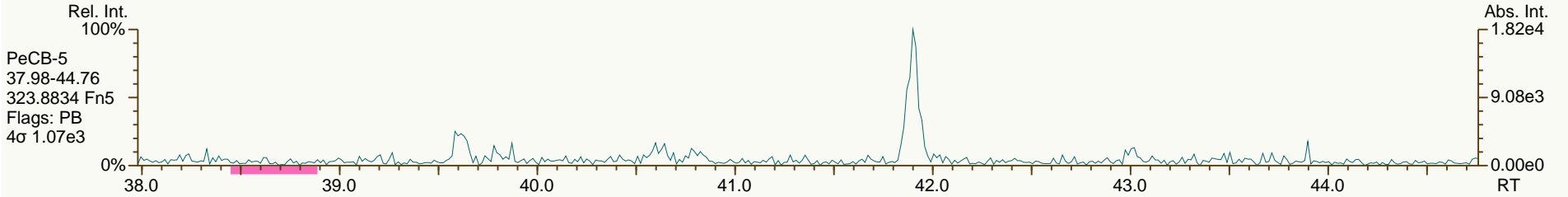
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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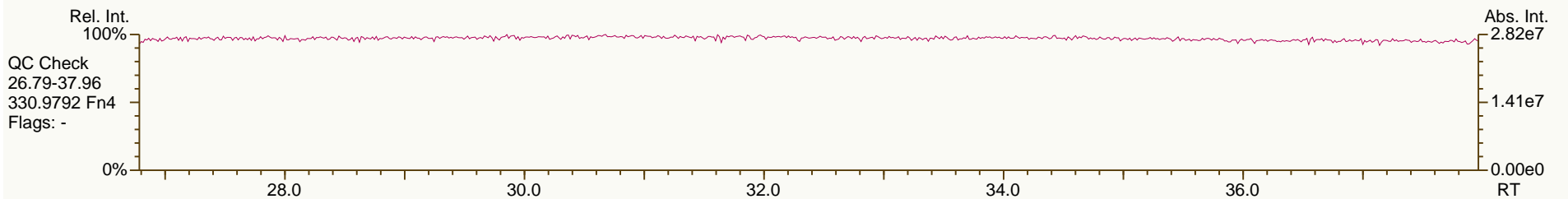
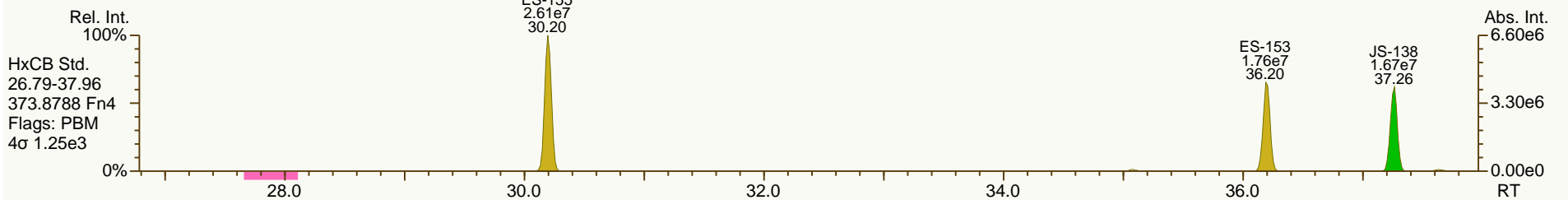
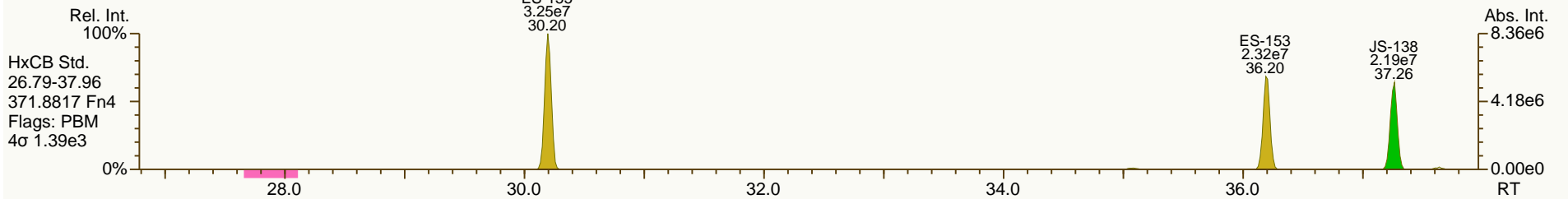
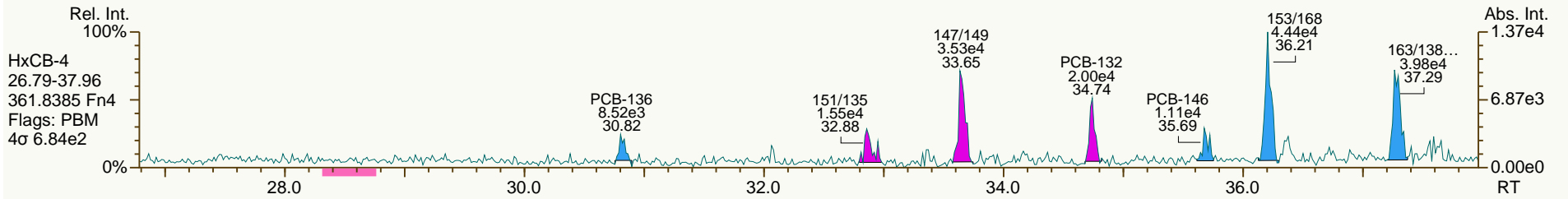
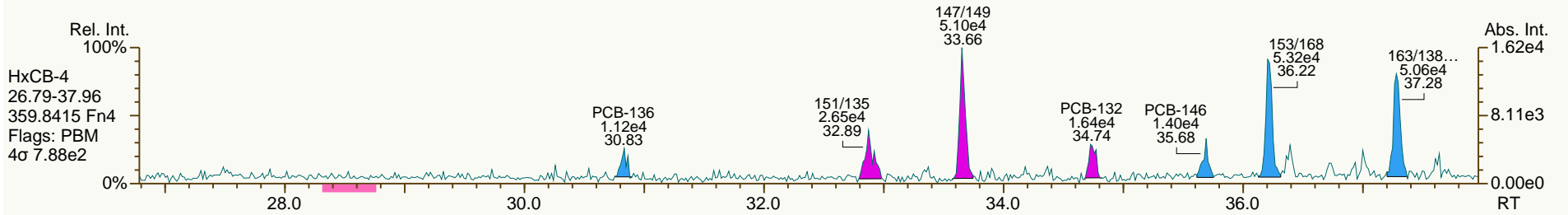
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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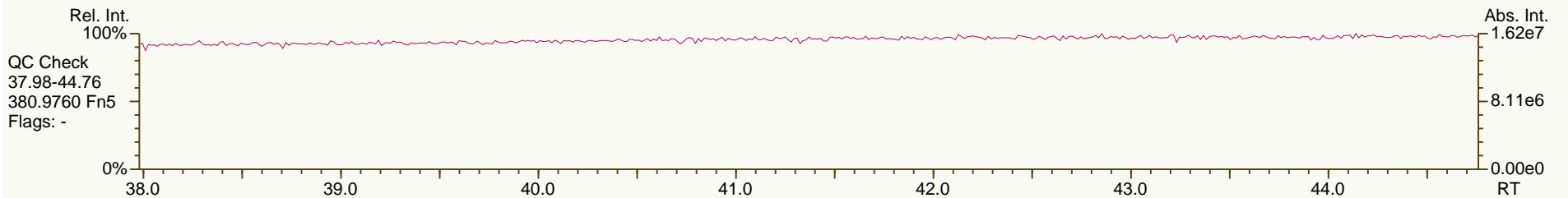
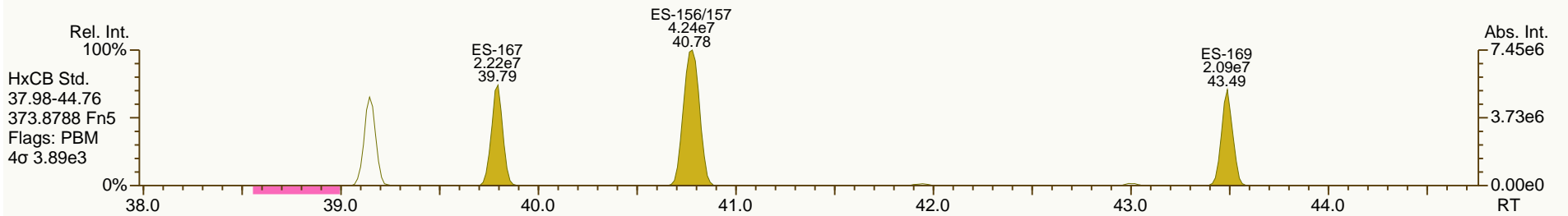
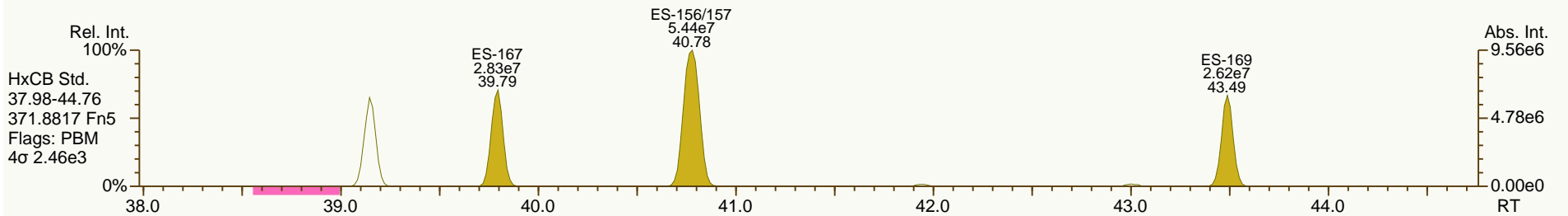
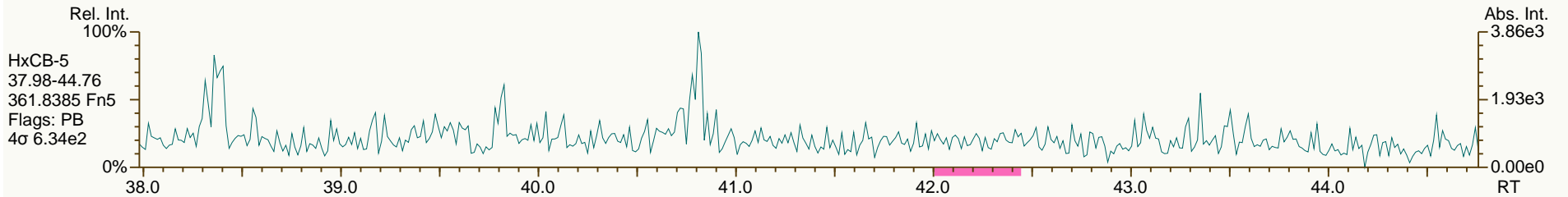
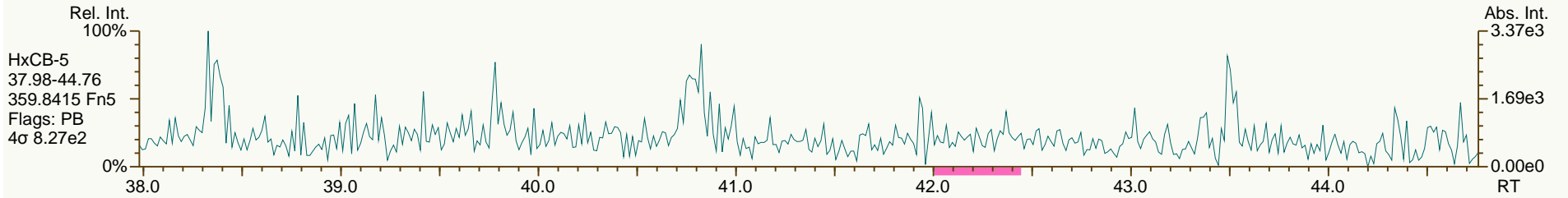




SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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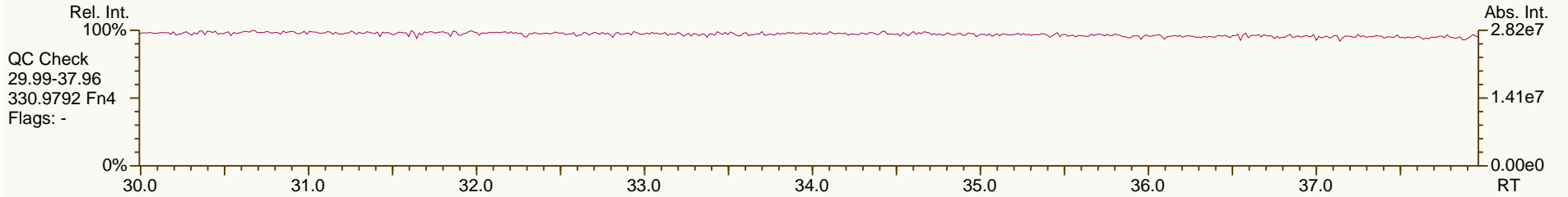
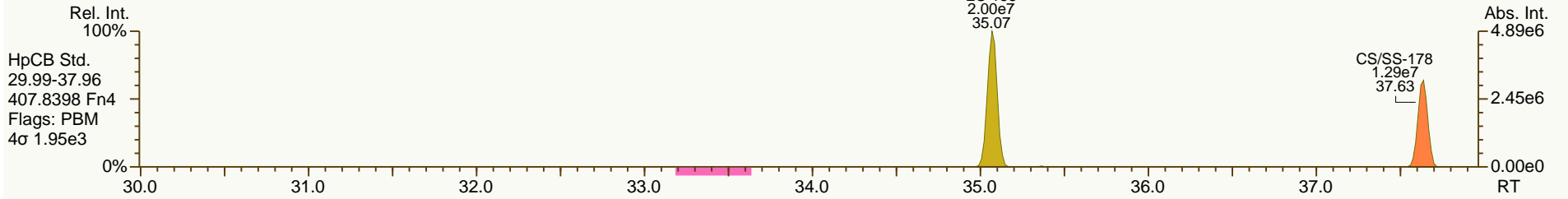
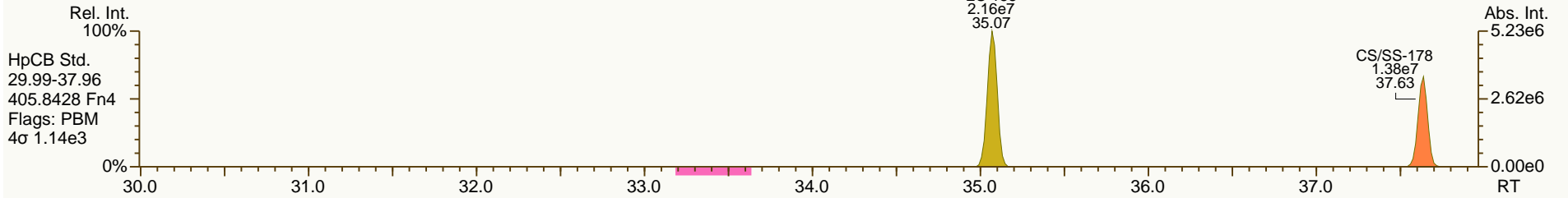
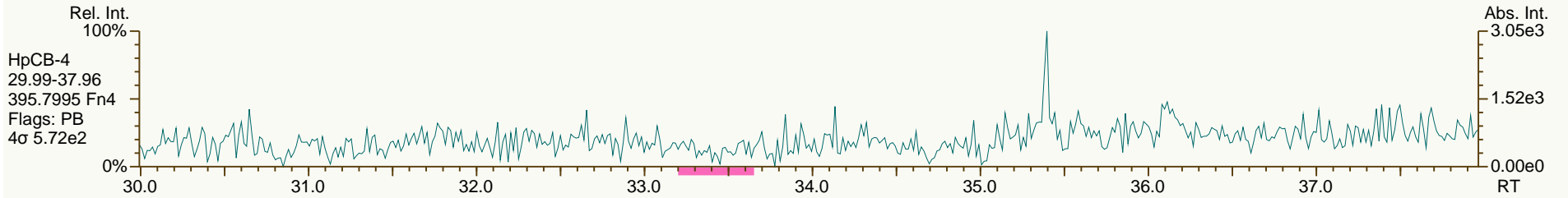
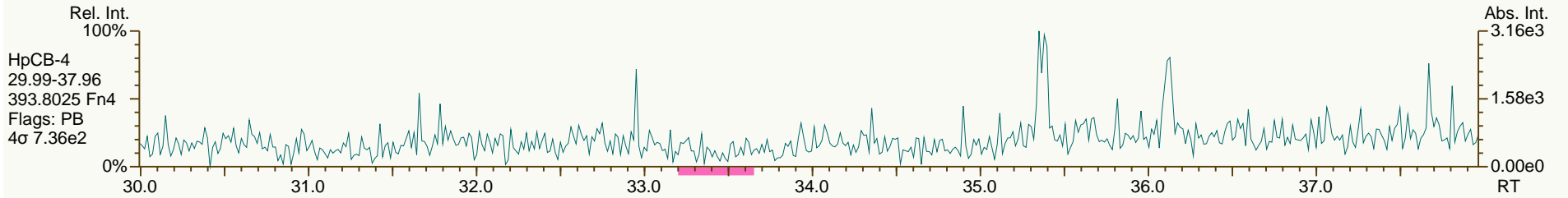
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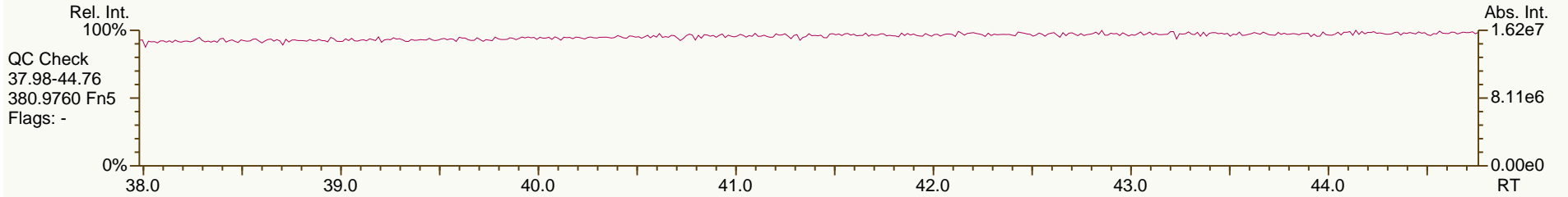
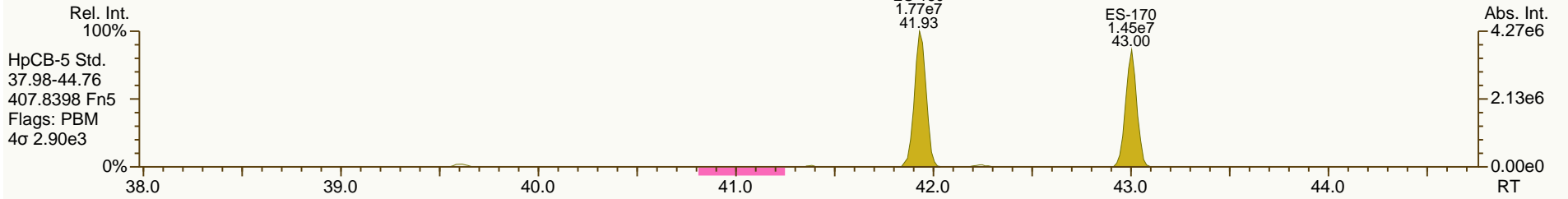
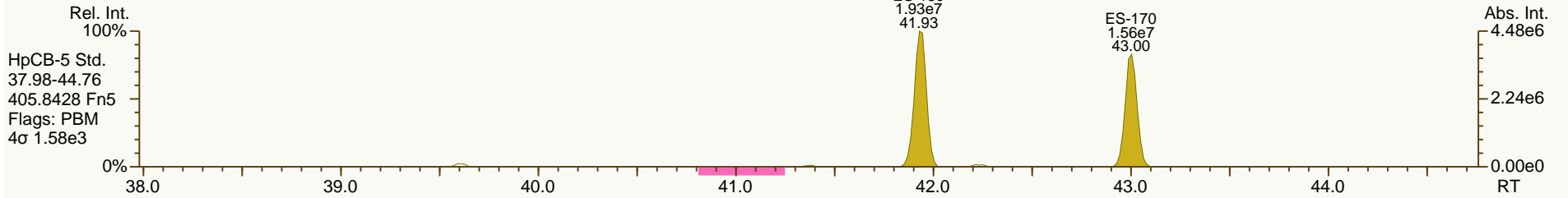
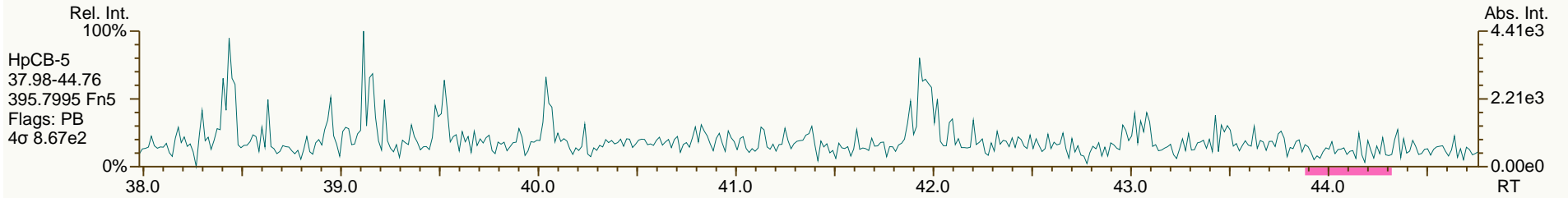
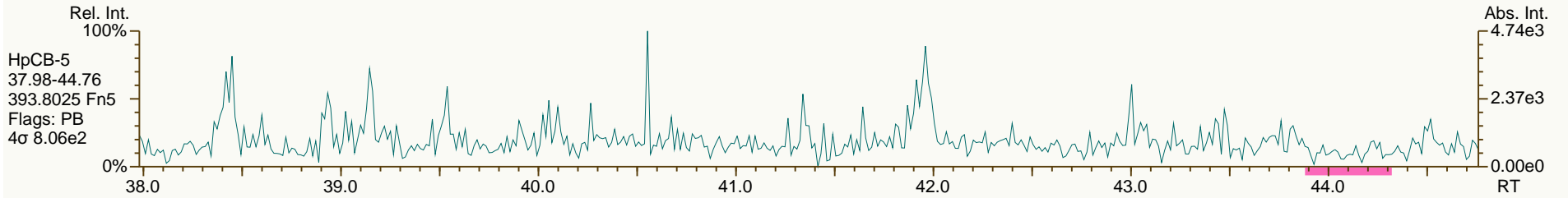
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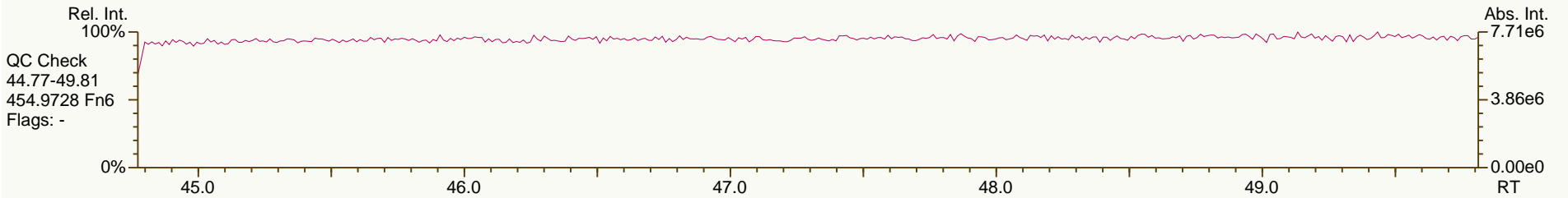
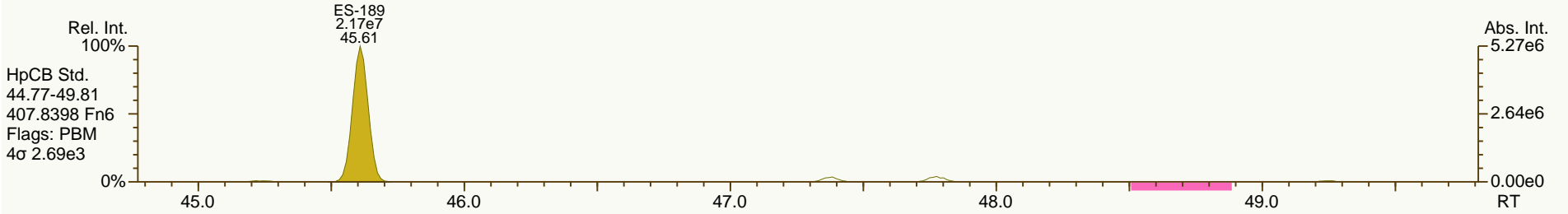
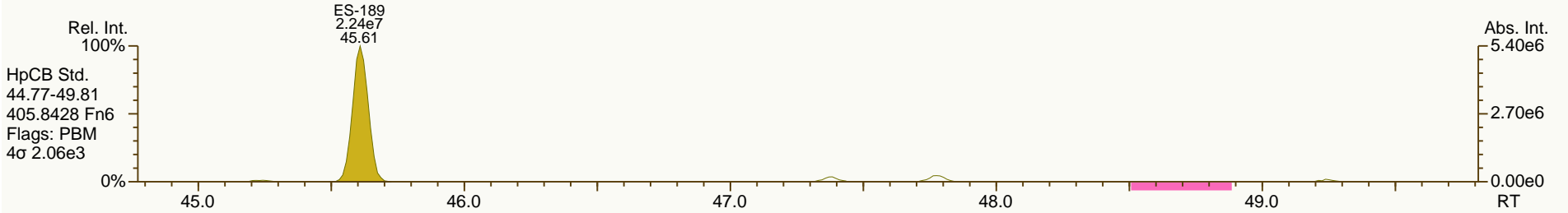
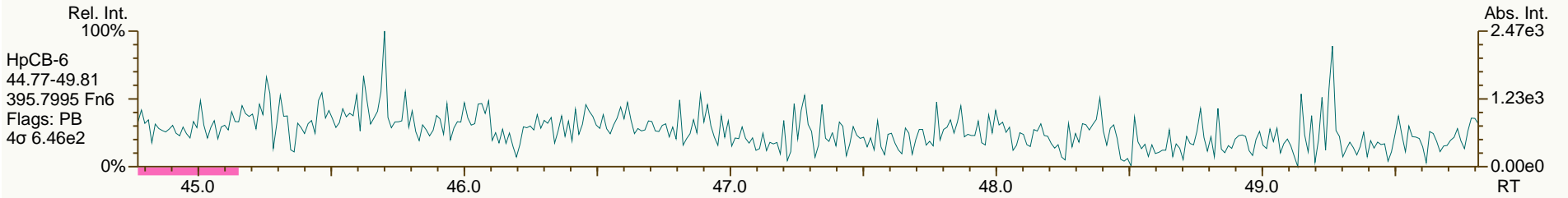
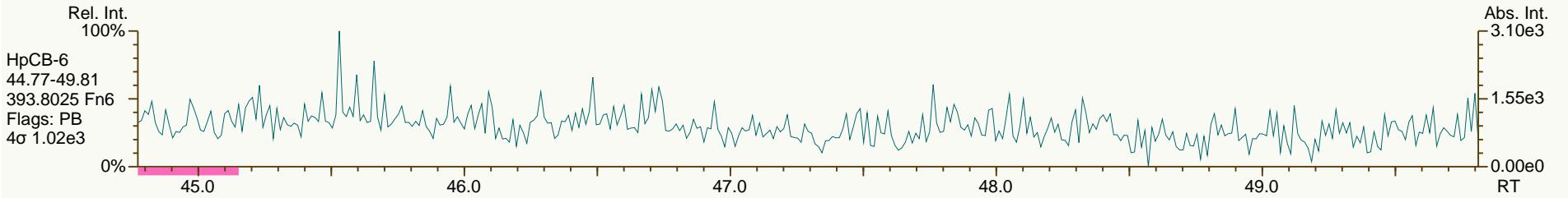
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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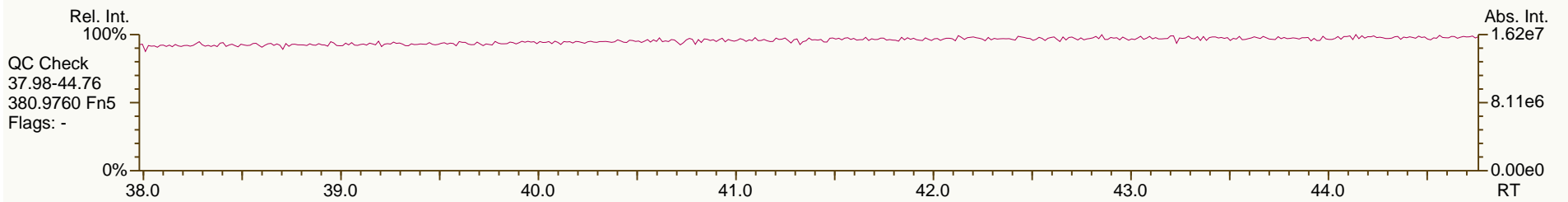
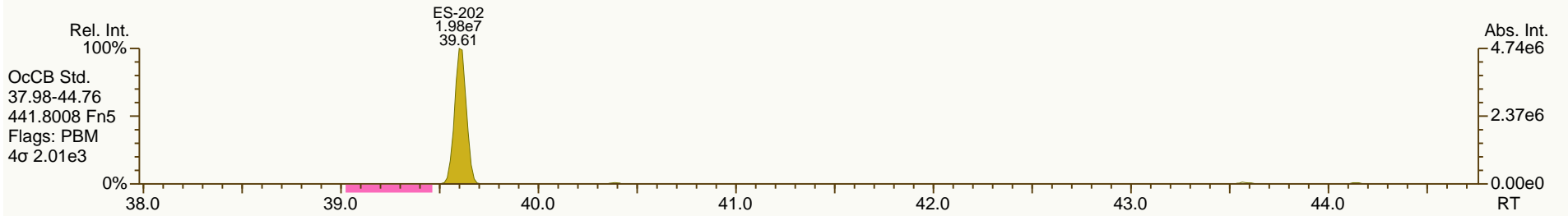
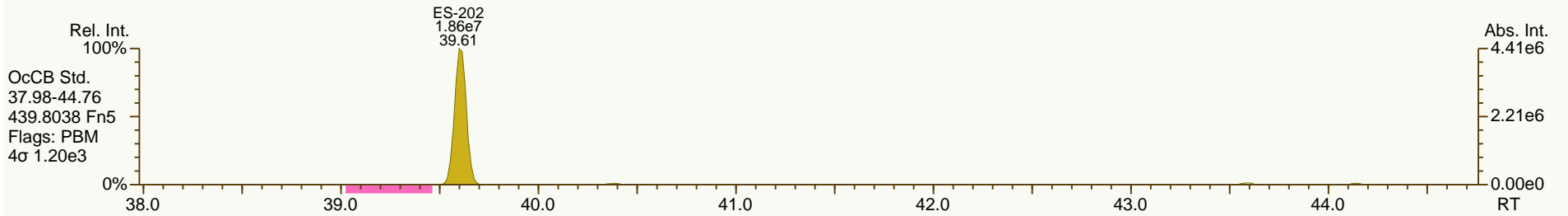
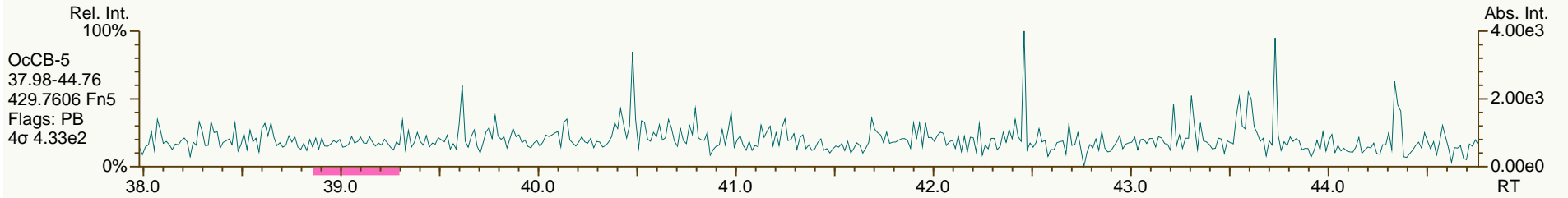
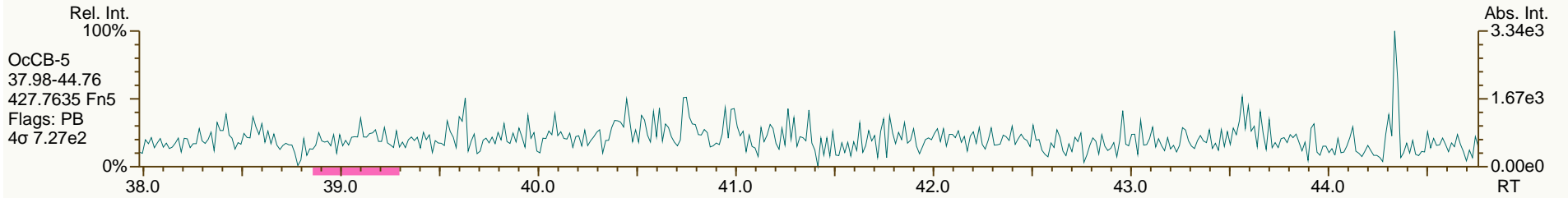
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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Sample ID: Method Blank  
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: Method Blank  
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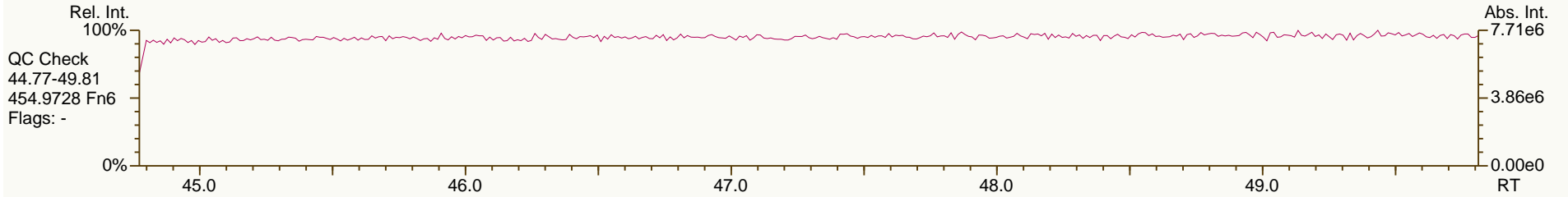
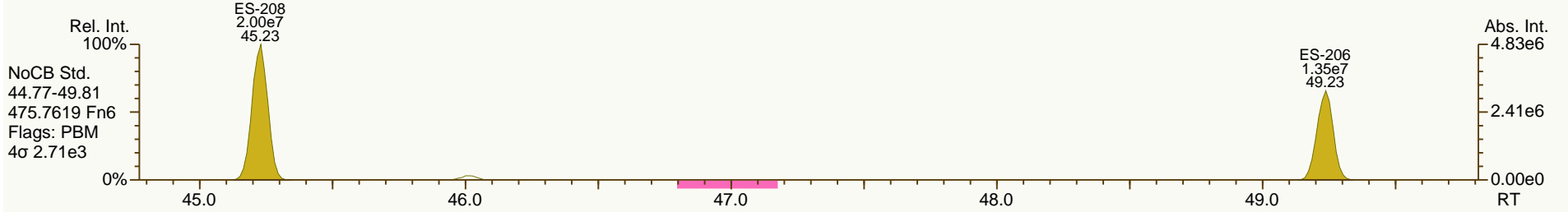
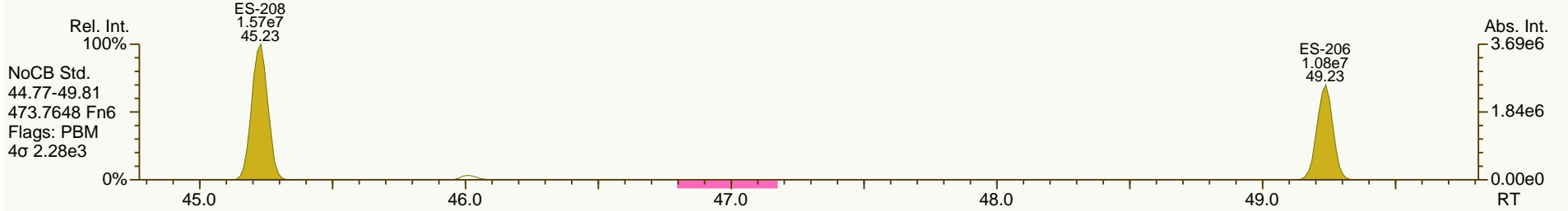
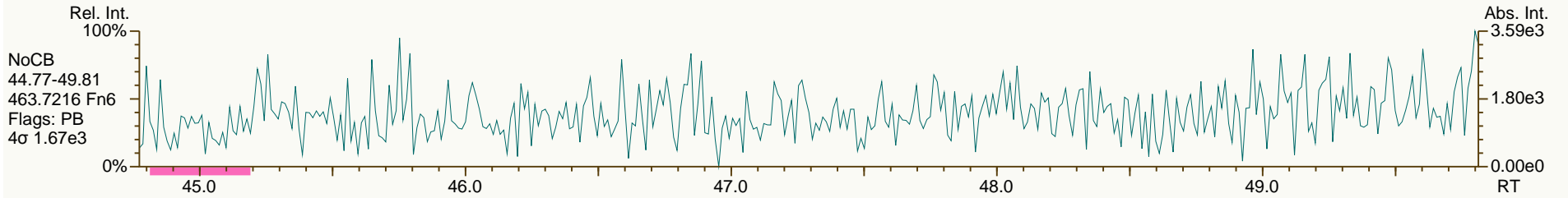
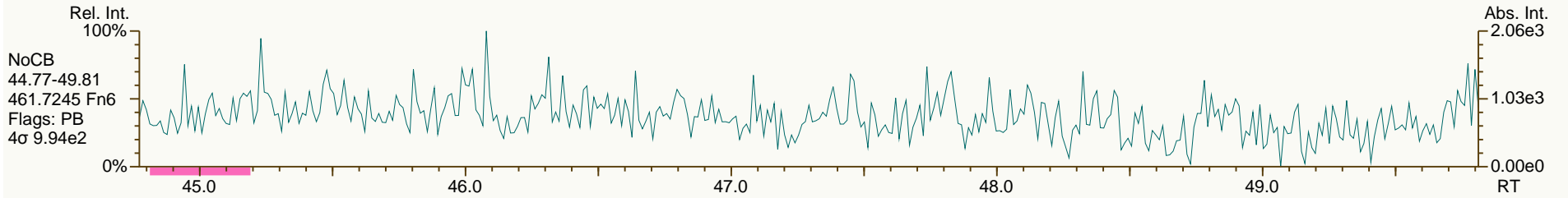
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SGS ID: MB1\_11906\_PCB\_TLX-RJ  
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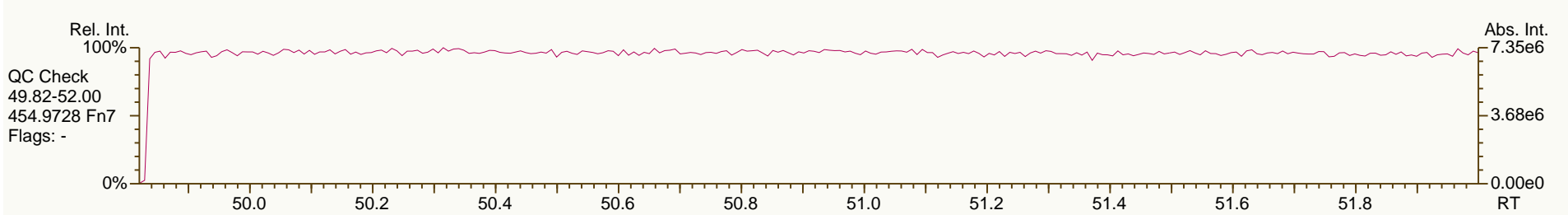
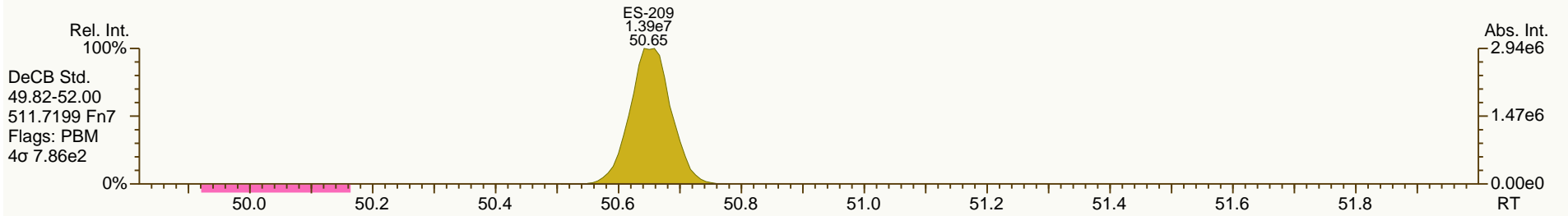
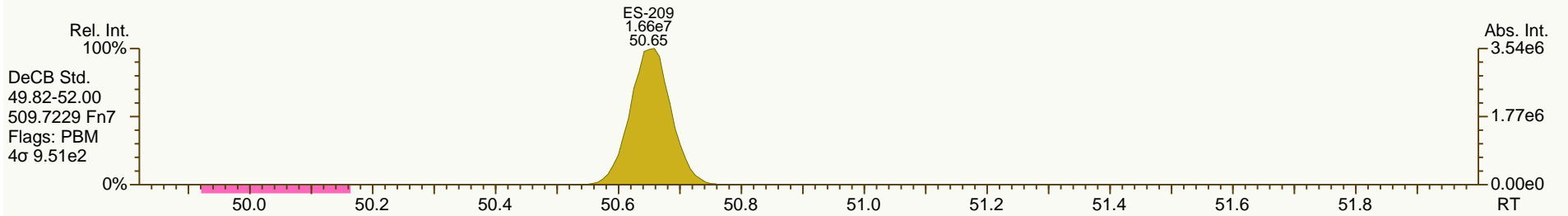
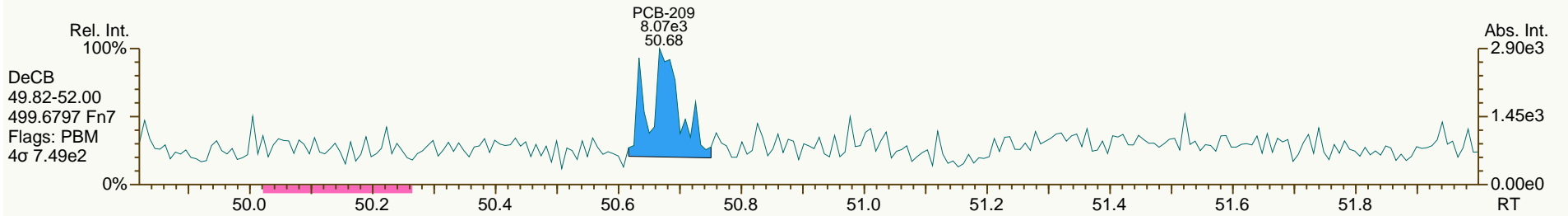
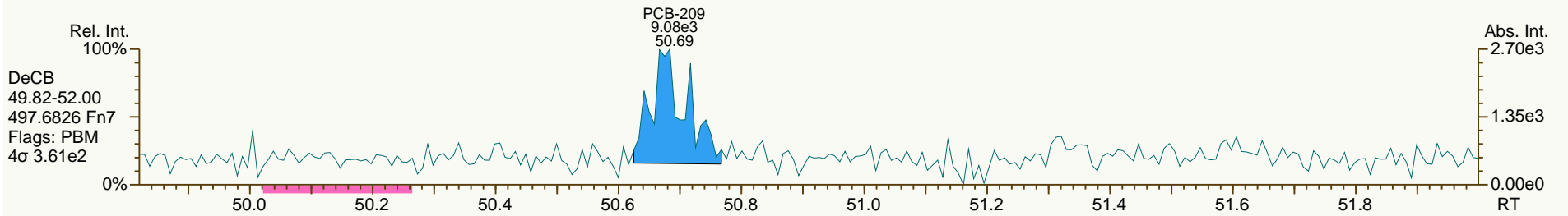
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Sample ID: Method Blank  
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Lab ID: A6528\_11906\_PCB\_001

ACQ: 02-Apr-2014 07:45:18 LKB

Wt/Vol: 1.22 L

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Client ID: PB099-1SWMID-140319-N (TOTAL)

UTP: 05-Apr-2014 00:48 CEM

J-level: 8.22 pg/L Split: 1

Checkcode: 065-928-ZGC

Datafile: 140402X10

RPT: 06-Apr-2014 16:18 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.68		1.0006	1.0006	0	2.17E+05	0.84	1.15	12.9	3.96E+03	2.45
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.96E+03	2.53
PCB-105 233'44'-PeCB	35.66		1.0007	1.0006	-0.2	3.94E+05	0.53	1.11	29	1.87E+03	1.48
PCB-114 2344'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.20	ND	1.87E+03	1.29
PCB-118 23'44'5'-PeCB	34.65		1.0007	1.0006	-0.2	8.88E+05	0.61	1.19	63.5	1.87E+03	1.32
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	1.87E+03	1.27
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.04E+03	1.64
PCB-156/157 ...-HxCB	40.80	J EMPC C	1.0005	1.0001	-1.0	4.66E+04	0.99	1.10	3.87	1.55E+03	1.87
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.55E+03	1.28
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.55E+03	1.32
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.50E+03	1.36
PCB-209 DeCB	50.70	J B EMPC	1.0000	1.0005	+1.5	1.95E+04	0.79	1.11	2.41	1.23E+03	1.73
ES PCB-1	11.82		0.7244	0.7243	-0.1	2.44E+07	3.26	1.19	57.4 %	15%	150%
ES PCB-3	14.10		0.8640	0.8642	+0.2	2.45E+07	3.38	1.09	63.2 %	15%	150%
ES PCB-4	14.34		0.8793	0.8792	-0.1	1.22E+07	1.65	0.52	65.7 %	25%	150%
ES PCB-15	20.04		1.2279	1.2283	+0.5	3.28E+07	1.60	1.04	88.4 %	25%	150%
ES PCB-19	17.41		1.0674	1.0673	-0.1	1.24E+07	1.10	0.51	68.8 %	25%	150%
ES PCB-37	26.34		1.0793	1.0795	+0.3	2.67E+07	1.11	1.66	91.2 %	25%	150%
ES PCB-54	20.31		0.8322	0.8322	0	1.38E+07	0.79	0.86	91.3 %	25%	150%
ES PCB-77	32.66		1.3381	1.3384	+0.6	2.40E+07	0.80	1.38	98.5 %	25%	150%
ES PCB-81	32.19		1.3186	1.3189	+0.6	2.35E+07	0.83	1.37	97.8 %	25%	150%
ES PCB-104	25.27		0.8317	0.8317	0	1.42E+07	1.74	0.80	109 %	25%	150%
ES PCB-105	35.64		1.1729	1.1730	+0.2	2.00E+07	1.65	1.20	103 %	25%	150%
ES PCB-114	35.10		1.1551	1.1551	0	1.95E+07	1.61	1.22	99 %	25%	150%
ES PCB-118	34.63		1.1398	1.1399	+0.2	1.93E+07	1.63	1.16	103 %	25%	150%
ES PCB-123	34.35		1.1306	1.1306	0	1.97E+07	1.61	1.19	102 %	25%	150%
ES PCB-126	38.25		1.2588	1.2590	+0.5	1.86E+07	1.52	1.03	112 %	25%	150%
ES PCB-153	36.21		0.9715	0.9715	0	1.41E+07	1.31	1.11	93.6 %	25%	150%
ES PCB-155	30.21		0.8106	0.8105	-0.2	1.88E+07	1.29	1.59	87.2 %	25%	150%
ES PCB-156/157	40.79		1.0943	1.0944	+0.2	3.60E+07	1.31	1.60	82.7 %	25%	150%
ES PCB-167	39.81		1.0679	1.0680	+0.2	1.81E+07	1.23	1.67	80 %	25%	150%
ES PCB-169	43.51		1.1671	1.1673	+0.5	1.85E+07	1.31	1.56	87.6 %	25%	150%
ES PCB-170	43.02		0.9078	0.9078	0	1.12E+07	1.11	0.95	89.5 %	25%	150%
ES PCB-180	41.95		0.8852	0.8852	0	1.33E+07	1.12	1.14	89.2 %	25%	150%
ES PCB-188	35.09		0.7404	0.7403	-0.2	1.38E+07	1.07	0.94	108 %	25%	150%
ES PCB-189	45.63		0.9628	0.9628	0	1.78E+07	1.06	1.58	97.7 %	25%	150%
ES PCB-202	39.62		0.8361	0.8360	-0.2	1.29E+07	0.94	0.97	97.7 %	25%	150%
ES PCB-205	47.79		1.0084	1.0084	0	1.34E+07	0.88	1.24	93.4 %	25%	150%
ES PCB-206	49.26		1.0393	1.0393	0	9.23E+06	0.79	0.83	96.6 %	25%	150%
ES PCB-208	45.25		0.9547	0.9547	0	1.37E+07	0.78	1.17	101 %	25%	150%
ES PCB-209	50.68		1.0692	1.0693	+0.3	1.19E+07	1.17	1.11	93.3 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.79		0.9337	0.9337	0	3.06E+07	1.12	1.11	103 %	30%	135%
SS PCB-111	32.67		1.0754	1.0754	0	2.01E+07	1.58	1.03	99 %	30%	135%
SS PCB-178	37.65		1.0101	1.0101	0	8.71E+06	1.04	0.62	102 %	30%	135%
CS PCB-28	22.79		0.9337	0.9337	0	3.06E+07	1.12	1.85	94.2 %	30%	135%
CS PCB-111	32.67		1.0754	1.0754	0	2.01E+07	1.58	1.22	101 %	30%	135%
CS PCB-178	37.65		1.0101	1.0101	0	8.71E+06	1.04	0.58	110 %	30%	135%
JS PCB-9	16.31					3.57E+07	1.60				
JS PCB-52	24.40					1.76E+07	0.79				
JS PCB-101	30.38					1.62E+07	1.64				
JS PCB-138	37.27					1.36E+07	1.33				
JS PCB-194	47.39					1.15E+07	0.90				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			25.5		29.2		2.18	
			Di-CBs			248		248		6.3	
			Tri-CBs			1,060		1,070		4.98	
			Tetra-CBs			1,550		1,550		2.32	
			Penta-CBs			530		540		1.36	
			Hexa-CBs			127		131		1.38	
			Hepta-CBs			15.4		29.6		1.4	
			Octa-CBs			0		0		1.51	
			Nona-CBs			0		0		4.19	
PCB-1 2-MoCB	11.83		1.0011	1.0010	-0.1	2.36E+05	3.12	0.95	16.7	4.55E+03	2.07
PCB-2 3-MoCB	13.93	J EMPC	0.9880	0.9879	-0.1	6.51E+04	2.54	1.18	3.71	4.55E+03	1.96
PCB-3 4-MoCB	14.11		1.0009	1.0009	0	1.33E+05	3.37	1.01	8.82	4.55E+03	2.29
PCB-4 22'-DiCB	14.36		1.0011	1.0011	0	8.47E+05	1.73	1.23	92.3	1.04E+04	8.42
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00		1.92	ND	1.04E+04	5.41
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		0.97	ND	9.57E+03	4.4
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.11	ND	9.57E+03	3.84
PCB-6 23'-DiCB	16.72		1.0250	1.0250	0	1.10E+06	1.67	1.04	53	9.57E+03	4.12
PCB-5 23-DiCB	NotFnd		1.0435	-		0.00E+00		1.04	ND	9.57E+03	4.09
PCB-8 24'-DiCB	17.14		1.0507	1.0509	+0.2	8.30E+05	1.64	1.07	39	9.57E+03	4
PCB-14 35-DiCB	NotFnd		0.9331	-		0.00E+00		1.24	ND	9.57E+03	3.46
PCB-11 33'-DiCB	19.48	B	0.9720	0.9722	+0.2	4.86E+05	SI	1.06	23	9.57E+03	4.02
PCB-13/12 34' /34-DiCB	19.75	C	0.9866	0.9857	-1.1	3.70E+05	SI	1.07	17.4	9.57E+03	4
PCB-15 44'-DiCB	20.05		1.0008	1.0006	-0.2	4.79E+05	SI	1.02	23.5	9.57E+03	4.19
PCB-19 22'6-TrCB	17.43		1.0010	1.0010	0	3.99E+05	1.13	1.15	46.1	5.88E+03	5.41
PCB-30/18 246/22'5-TrCB	19.19	C	1.1017	1.1022	+0.6	2.35E+06	1.05	1.55	201	5.88E+03	4.02
PCB-17 22'4-TrCB	19.58		1.1247	1.1248	+0.1	8.66E+05	1.05	1.30	87.9	5.88E+03	4.76
PCB-27 23'6-TrCB	19.77	EMPC	1.1357	1.1357	0	1.76E+05	1.34	1.80	13	5.88E+03	3.45
PCB-24 236-TrCB	NotFnd		1.1435	-		0.00E+00		1.77	ND	5.88E+03	3.51
PCB-16 22'3-TrCB	20.00		1.1489	1.1491	+0.2	5.08E+05	1.11	0.95	70.6	5.88E+03	6.51

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.48		1.1763	1.1764	+0.1	1.32E+06	1.07	1.93	90.7	5.88E+03	3.22
PCB-34 23'5'-TrCB	NotFnd		0.8211	-		0.00E+00		1.24	ND	8.03E+03	3.98
PCB-23 235-TrCB	NotFnd		0.8268	-		0.00E+00		1.25	ND	8.03E+03	3.93
PCB-26/29 23'5'/245-TrCB	22.04	C	0.8375	0.8366	-1.2	1.10E+06	0.96	1.27	53.4	8.03E+03	3.87
PCB-25 23'4-TrCB	22.26		0.8451	0.8449	-0.3	1.32E+06	1.03	1.31	62.1	8.03E+03	3.76
PCB-31 24'5-TrCB	22.54		0.8556	0.8555	-0.1	3.49E+06	1.02	1.32	162	8.03E+03	3.71
PCB-28/20 244'/233'-TrCB	22.81	C	0.8663	0.8659	-0.5	3.62E+06	0.99	1.23	181	8.03E+03	4
PCB-21/33 234/23'4'-TrCB	23.02	C	0.8732	0.8738	+0.8	7.04E+05	1.02	1.29	33.7	8.03E+03	3.82
PCB-22 234'-TrCB	23.38		0.8875	0.8874	-0.1	9.37E+05	0.96	1.19	48.7	8.03E+03	4.15
PCB-36 33'5-TrCB	NotFnd		0.9397	-		0.00E+00		1.34	ND	8.03E+03	3.67
PCB-39 34'5-TrCB	NotFnd		0.9520	-		0.00E+00		1.34	ND	8.03E+03	3.67
PCB-38 345-TrCB	NotFnd		0.9721	-		0.00E+00		1.21	ND	8.03E+03	4.08
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.16	ND	8.03E+03	4.24
PCB-37 344'-TrCB	26.37		1.0008	1.0010	+0.3	4.15E+05	0.96	1.08	23.7	8.03E+03	4.56
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.35	ND	2.55E+03	1.93
PCB-50/53 22'46/22'56'-TeCB	22.29	C	0.9141	0.9132	-1.2	6.40E+05	0.78	0.85	52.4	2.77E+03	2.32
PCB-45 22'36-TeCB	22.89		0.9381	0.9380	-0.1	3.36E+05	0.83	0.70	33.4	2.77E+03	2.81
PCB-51 22'46'-TeCB	22.96		0.9410	0.9409	-0.1	5.28E+05	0.78	0.90	41.1	2.77E+03	2.2
PCB-46 22'36'-TeCB	23.18		0.9497	0.9497	0	1.79E+05	0.75	0.68	18.4	2.77E+03	2.91
PCB-52 22'55'-TeCB	24.43		1.0009	1.0010	+0.1	3.06E+06	0.78	0.83	256	2.77E+03	2.37
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.16	ND	2.77E+03	1.71
PCB-43 22'35-TeCB	NotFnd		1.0102	-		0.00E+00		0.68	ND	2.77E+03	2.91
PCB-69/49 23'46/22'45'-TeCB	24.87	C	1.0181	1.0190	+1.3	2.06E+06	0.78	1.03	139	2.77E+03	1.92
PCB-48 22'45-TeCB	25.13		1.0296	1.0297	+0.2	3.66E+05	0.83	0.85	30.2	2.77E+03	2.34
PCB-44/47/65 ...-TeCB	25.32	C	1.0385	1.0377	-1.2	2.96E+06	0.79	0.90	229	2.77E+03	2.19
PCB-59/62/75 ...-TeCB	25.61	J C	1.0498	1.0494	-0.6	2.79E+05	0.73	1.18	16.6	2.77E+03	1.68
PCB-42 22'34'-TeCB	25.79		1.0566	1.0566	0	6.54E+05	0.76	0.76	59.7	2.77E+03	2.59
PCB-41 22'34-TeCB	26.11		1.0702	1.0701	-0.2	9.72E+04	0.78	0.67	10.1	2.77E+03	2.95
PCB-71/40 23'4'6/22'33'-TeCB	26.22	C	1.0741	1.0742	+0.2	1.28E+06	0.80	0.87	102	2.77E+03	2.27
PCB-64 234'6-TeCB	26.41		1.0823	1.0823	0	1.45E+06	0.81	1.24	81.6	2.77E+03	1.59
PCB-72 23'55'-TeCB	NotFnd		0.8429	-		0.00E+00		1.25	ND	3.96E+03	2.27
PCB-68 23'45'-TeCB	27.39		0.8509	0.8509	0	5.01E+05	0.76	1.32	26.6	3.96E+03	2.15
PCB-57 233'5-TeCB	NotFnd		0.8624	-		0.00E+00		1.19	ND	3.96E+03	2.37
PCB-58 233'5'-TeCB	NotFnd		0.8687	-		0.00E+00		1.21	ND	3.96E+03	2.33
PCB-67 23'45-TeCB	28.12	J EMPC	0.8736	0.8736	0	6.36E+04	1.11	1.29	3.45	3.96E+03	2.2
PCB-63 234'5-TeCB	28.34	J	0.8806	0.8806	0	1.32E+05	0.86	1.34	6.86	3.96E+03	2.11
PCB-61/70/74/76 ...-TeCB	28.65	C	0.8897	0.8900	+0.5	3.54E+06	0.82	1.22	203	3.96E+03	2.32
PCB-66 23'44'-TeCB	28.91		0.8984	0.8983	-0.2	2.18E+06	0.82	1.16	131	3.96E+03	2.44
PCB-55 233'4-TeCB	NotFnd		0.9030	-		0.00E+00		1.15	ND	3.96E+03	2.45
PCB-56 233'4'-TeCB	29.50		0.9165	0.9165	0	1.14E+06	0.78	1.15	69.4	3.96E+03	2.47
PCB-60 2344'-TeCB	29.69		0.9225	0.9224	-0.2	4.66E+05	0.78	1.16	27.9	3.96E+03	2.43
PCB-80 33'55'-TeCB	NotFnd		0.9326	-		0.00E+00		1.35	ND	3.96E+03	2.09
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.40	ND	3.96E+03	2.02
PCB-78 33'45-TeCB	NotFnd		0.9888	-		0.00E+00		1.12	ND	3.96E+03	2.52
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.55E+03	1.16
PCB-96 22'366'-PeCB	25.61	J EMPC	1.0135	1.0136	+0.2	2.64E+04	0.76	1.19	2.57	1.55E+03	1.4
PCB-103 22'45'6-PeCB	NotFnd		0.8985	-		0.00E+00		0.96	ND	1.87E+03	1.6
PCB-94 22'356'-PeCB	NotFnd		0.9048	-		0.00E+00		0.80	ND	1.87E+03	1.91

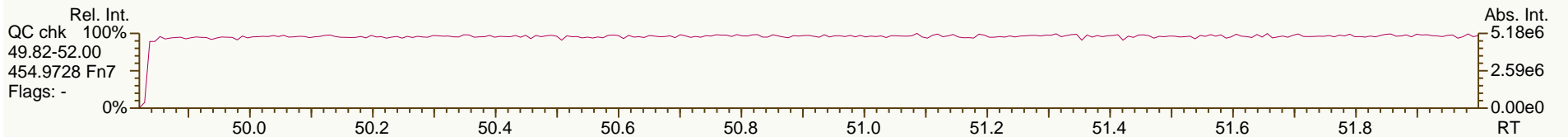
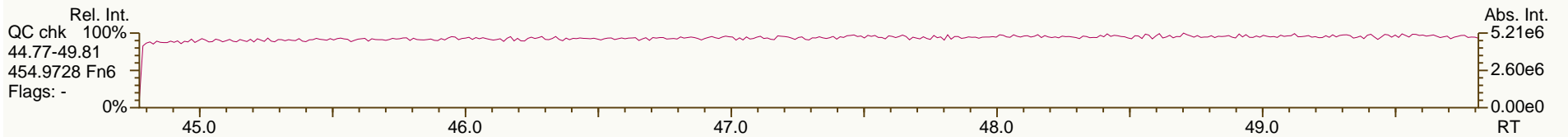
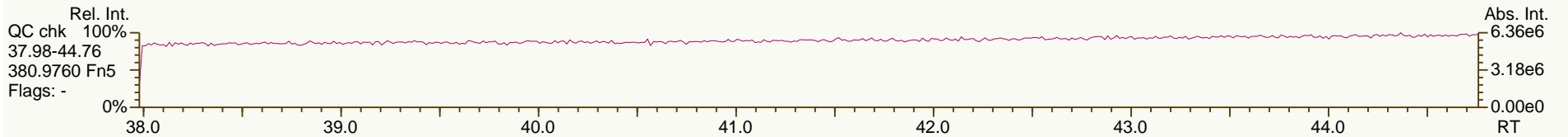
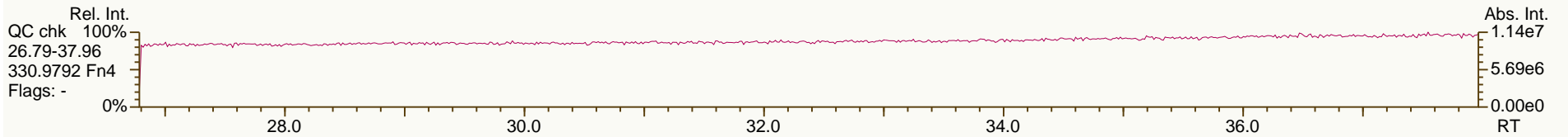
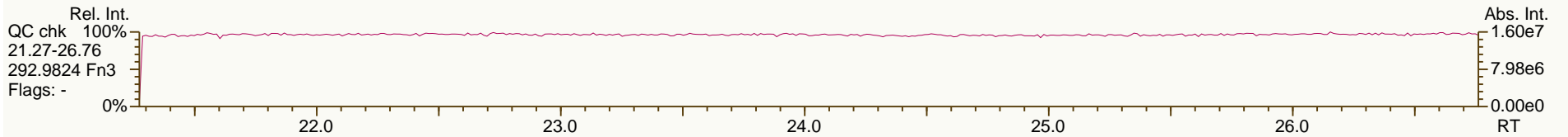
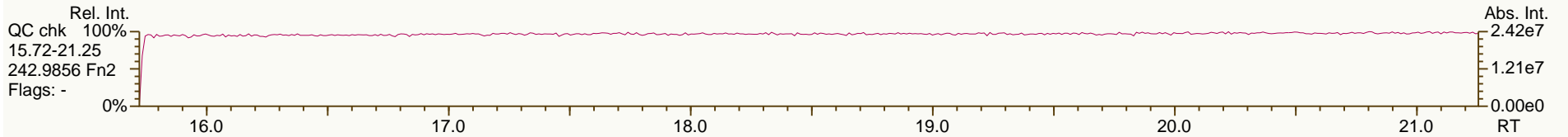
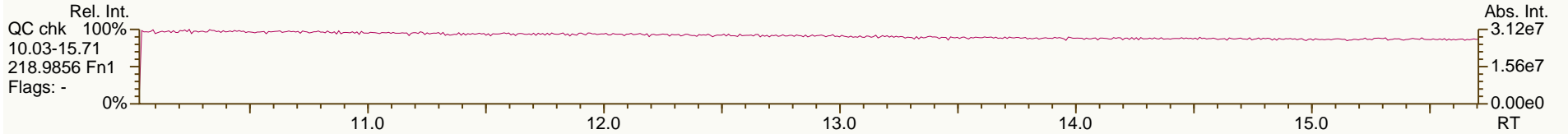
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.87		0.9173	0.9173	0	6.91E+05	0.59	0.87	66.4	1.87E+03	1.77
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9243	-		0.00E+00		0.87	ND	1.87E+03	1.76
PCB-102 22'456'-PeCB	28.20	J	0.9278	0.9280	+0.3	4.57E+04	0.70	0.86	4.44	1.87E+03	1.79
PCB-98 22'34'6'-PeCB	NotFnd		0.9301	-		0.00E+00		0.89	ND	1.87E+03	1.73
PCB-88 22'346-PeCB	NotFnd		0.9402	-		0.00E+00		0.81	ND	1.87E+03	1.9
PCB-91 22'34'6-PeCB	28.63		0.9423	0.9421	-0.3	1.89E+05	0.60	0.91	17.3	1.87E+03	1.68
PCB-84 22'33'6-PeCB	28.82		0.9486	0.9486	0	2.73E+05	0.61	0.72	31.5	1.87E+03	2.12
PCB-89 22'346'-PeCB	NotFnd		0.9623	-		0.00E+00		0.77	ND	1.87E+03	1.99
PCB-121 23'45'6-PeCB	NotFnd		0.9735	-		0.00E+00		1.22	ND	1.87E+03	1.25
PCB-92 22'355'-PeCB	29.90		0.9840	0.9841	+0.2	1.54E+05	0.64	0.83	15.6	1.87E+03	1.86
PCB-113/90/101 ...-PeCB	30.41	C	0.9999	1.0007	+1.5	8.16E+05	0.64	0.97	69.9	1.87E+03	1.58
PCB-83 22'33'5-PeCB	30.81	J EMPC	1.0144	1.0142	-0.4	3.66E+04	0.43	0.73	4.19	1.87E+03	2.1
PCB-99 22'44'5-PeCB	30.91		1.0175	1.0173	-0.4	4.98E+05	0.70	0.91	45.9	1.87E+03	1.69
PCB-112 233'56-PeCB	NotFnd		1.0208	-		0.00E+00		1.17	ND	1.87E+03	1.31
PCB-108/119/86/97/125...-PeCB	31.39	C	1.0321	1.0331	+1.9	7.38E+05	0.59	0.99	62.3	1.87E+03	1.55
PCB-117 234'56-PeCB	31.89	J EMPC	1.0496	1.0497	+0.2	3.18E+04	0.81	1.08	2.46	1.87E+03	1.42
PCB-116/85 23456/22'344'-PeCB	31.98	C	1.0527	1.0525	-0.4	2.05E+05	0.64	0.99	17.3	1.87E+03	1.55
PCB-110 233'4'6-PeCB	32.10		1.0566	1.0566	0	1.25E+06	0.63	1.13	92.3	1.87E+03	1.36
PCB-115 2344'6-PeCB	NotFnd		1.0594	-		0.00E+00		1.18	ND	1.87E+03	1.3
PCB-82 22'33'4-PeCB	32.38		1.0659	1.0658	-0.2	1.24E+05	0.64	0.69	15	1.87E+03	2.21
PCB-111 233'55'-PeCB	NotFnd		1.0761	-		0.00E+00		1.23	ND	1.87E+03	1.25
PCB-120 23'455'-PeCB	NotFnd		1.0892	-		0.00E+00		1.23	ND	1.87E+03	1.24
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.11	ND	1.87E+03	1.38
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.28	ND	1.87E+03	1.2
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.11	ND	1.87E+03	1.38
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	1.87E+03	1.54
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.11	ND	1.87E+03	1.48
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.53E+03	1.04
PCB-152 22'3566'-HxCB	NotFnd		1.0062	-		0.00E+00		1.08	ND	1.53E+03	1.21
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.11	ND	1.53E+03	1.17
PCB-136 22'33'66'-HxCB	30.85	J B	1.0210	1.0210	0	5.80E+04	1.35	1.02	4.98	1.53E+03	1.29
PCB-145 22'3466'-HxCB	NotFnd		1.0299	-		0.00E+00		1.04	ND	1.53E+03	1.25
PCB-148 22'34'56'-HxCB	NotFnd		1.0719	-		0.00E+00		1.10	ND	1.53E+03	1.59
PCB-151/135 ...-HxCB	32.90	J B C	1.0891	1.0890	-0.2	9.16E+04	1.17	1.05	10.1	1.53E+03	1.65
PCB-154 22'44'56'-HxCB	NotFnd		1.0960	-		0.00E+00		1.24	ND	1.53E+03	1.4
PCB-144 22'345'6-HxCB	NotFnd		1.1048	-		0.00E+00		1.09	ND	1.53E+03	1.6
PCB-147/149 ...-HxCB	33.68	B C	1.1148	1.1146	-0.4	2.09E+05	1.20	1.09	22.5	1.53E+03	1.6
PCB-134 22'33'56-HxCB	NotFnd		1.1205	-		0.00E+00		0.79	ND	1.53E+03	2.22
PCB-143 22'3456'-HxCB	NotFnd		1.1231	-		0.00E+00		1.08	ND	1.53E+03	1.61
PCB-139/140 ...-HxCB	NotFnd	C	1.1319	-		0.00E+00		1.11	ND	1.53E+03	1.57
PCB-131 22'33'46-HxCB	NotFnd		1.1377	-		0.00E+00		0.93	ND	1.53E+03	1.87
PCB-142 22'3456-HxCB	NotFnd		1.1425	-		0.00E+00		0.92	ND	1.53E+03	1.9
PCB-132 22'33'46'-HxCB	34.75	B	1.1502	1.1503	+0.2	8.84E+04	1.17	0.96	10.8	1.53E+03	1.82
PCB-133 22'33'55'-HxCB	NotFnd		1.1636	-		0.00E+00		1.02	ND	1.53E+03	1.7
PCB-165 233'55'6-HxCB	NotFnd		0.9523	-		0.00E+00		1.32	ND	1.53E+03	1.32
PCB-146 22'34'55'-HxCB	35.71	J B	0.9580	0.9579	-0.2	4.60E+04	1.15	1.14	4.71	1.53E+03	1.53
PCB-161 233'45'6-HxCB	NotFnd		0.9612	-		0.00E+00		1.41	ND	1.53E+03	1.24
PCB-153/168 ...-HxCB	36.23	B C	0.9727	0.9721	-1.3	2.82E+05	1.42	1.40	23.5	1.53E+03	1.25

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.41	J	0.9766	0.9767	+0.2	4.48E+04	1.18	1.02	5.15	1.53E+03	1.72
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.90	ND	1.53E+03	1.94
PCB-137 22'344'5-HxCB	NotFnd		0.9912	-		0.00E+00		1.14	ND	1.53E+03	1.53
PCB-164 233'4'5'6-HxCB	NotFnd		0.9934	-		0.00E+00		1.38	ND	1.53E+03	1.26
PCB-163/138/129 ...-HxCB	37.30	B C	1.0011	1.0006	-1.1	3.50E+05	1.31	1.13	36.2	1.53E+03	1.54
PCB-160 233'456-HxCB	NotFnd		1.0049	-		0.00E+00		1.29	ND	1.53E+03	1.35
PCB-158 233'44'6-HxCB	37.63	J	1.0097	1.0095	-0.5	4.89E+04	1.10	1.52	3.77	1.53E+03	1.15
PCB-128/166 ...-HxCB	38.38	J C	0.9639	0.9642	+0.7	5.35E+04	1.33	0.88	5.47	1.55E+03	1.68
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.55E+03	1.39
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.09	ND	1.55E+03	1.37
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.22E+03	1.11
PCB-179 22'33'566'-HpCB	35.40	J	1.0087	1.0089	+0.4	2.27E+04	1.13	1.07	2.54	1.22E+03	1.32
PCB-184 22'344'66'-HpCB	NotFnd		1.0217	-		0.00E+00		1.03	ND	1.22E+03	1.37
PCB-176 22'33'466'-HpCB	NotFnd		1.0302	-		0.00E+00		1.14	ND	1.22E+03	1.24
PCB-186 22'34566'-HpCB	NotFnd		1.0415	-		0.00E+00		1.05	ND	1.22E+03	1.33
PCB-178 22'33'55'6-HpCB	NotFnd		1.0736	-		0.00E+00		0.75	ND	1.22E+03	1.87
PCB-175 22'33'45'6-HpCB	NotFnd		1.0891	-		0.00E+00		1.08	ND	1.22E+03	1.49
PCB-187 22'34'55'6-HpCB	38.45	J EMPC	1.0956	1.0959	+0.7	6.17E+04	1.22	1.16	6.57	1.22E+03	1.39
PCB-182 22'344'56'-HpCB	NotFnd		1.1007	-		0.00E+00		1.20	ND	1.22E+03	1.33
PCB-183 22'344'5'6-HpCB	38.96	J	1.1105	1.1105	0	2.73E+04	1.11	1.24	2.72	1.22E+03	1.3
PCB-185 22'3455'6-HpCB	NotFnd		1.1129	-		0.00E+00		1.04	ND	1.22E+03	1.54
PCB-174 22'33'456'-HpCB	39.15	J EMPC	1.1160	1.1159	-0.2	3.11E+04	1.33	1.00	3.84	1.22E+03	1.61
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1268	-		0.00E+00		0.93	ND	1.22E+03	1.72
PCB-181 22'344'56-HpCB	NotFnd		1.1366	-		0.00E+00		1.08	ND	1.22E+03	1.49
PCB-171/173 ...-HpCB	NotFnd	C	1.1419	-		0.00E+00		0.95	ND	1.22E+03	1.69
PCB-172 22'33'455'-HpCB	NotFnd		0.9077	-		0.00E+00		0.98	ND	1.22E+03	1.64
PCB-192 233'455'6-HpCB	NotFnd		0.9131	-		0.00E+00		1.30	ND	1.22E+03	1.24
PCB-180/193 ...-HpCB	41.97	J C	0.9191	0.9197	+1.5	1.03E+05	0.98	1.24	10.2	1.22E+03	1.3
PCB-191 233'44'5'6-HpCB	NotFnd		0.9264	-		0.00E+00		1.39	ND	1.22E+03	1.15
PCB-170 22'33'44'5-HpCB	43.04	J EMPC	0.9433	0.9431	-0.5	2.90E+04	1.65	1.12	3.79	1.22E+03	1.53
PCB-190 233'44'56-HpCB	NotFnd		0.9531	-		0.00E+00		1.57	ND	1.22E+03	1.09
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.33E+03	1.6
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.33E+03	1.51
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.05	ND	1.33E+03	1.6
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0396	-		0.00E+00		1.12	ND	1.33E+03	1.5
PCB-200 22'33'4566'-OcCB	NotFnd		1.0419	-		0.00E+00		1.06	ND	1.33E+03	1.58
PCB-198/199 ...-OcCB	NotFnd	C	1.1005	-		0.00E+00		0.72	ND	1.33E+03	2.35
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1150	-		0.00E+00		0.75	ND	1.33E+03	2.23
PCB-203 22'344'55'6-OcCB	NotFnd		1.1192	-		0.00E+00		0.77	ND	1.33E+03	2.18
PCB-195 22'33'44'56-OcCB	NotFnd		0.9515	-		0.00E+00		0.73	ND	1.18E+03	2.06
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9921	-		0.00E+00		0.81	ND	1.18E+03	1.85
PCB-205 233'44'55'6-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.18E+03	1.42
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.04E+03	3.32
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0179	-		0.00E+00		1.15	ND	3.04E+03	3.26
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.04E+03	5.05

SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 27

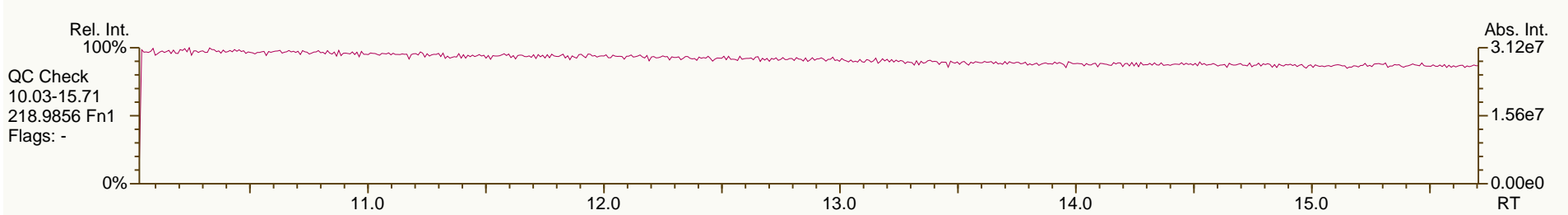
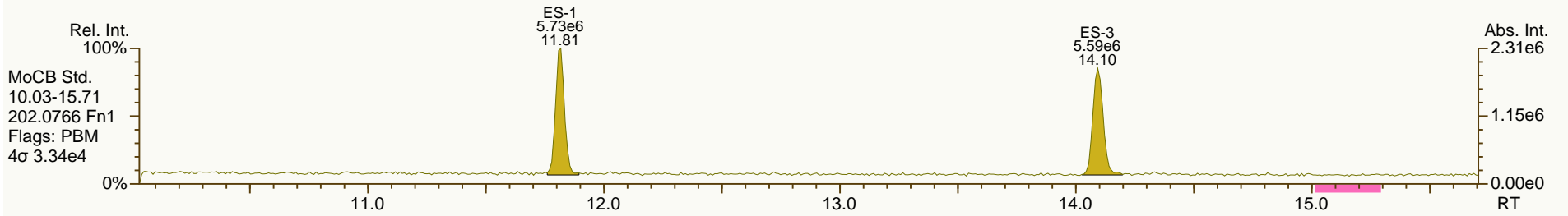
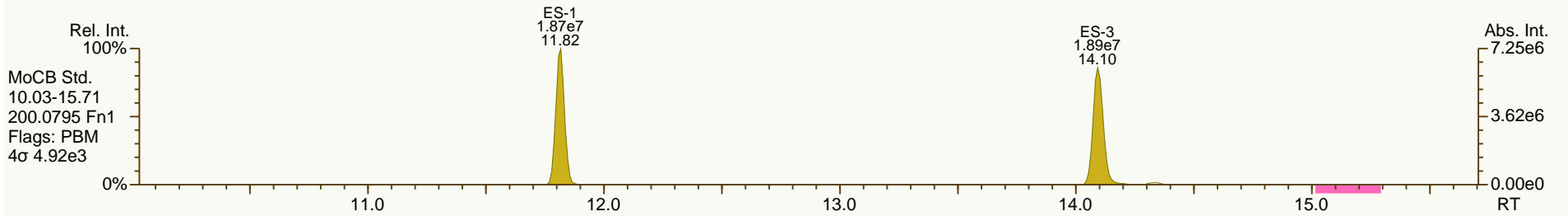
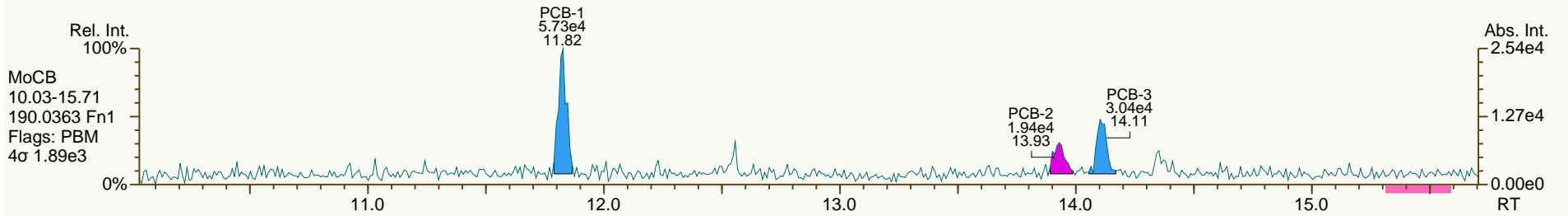
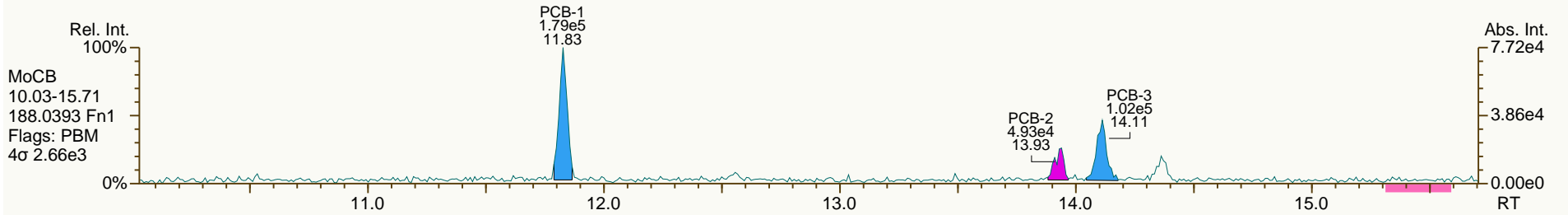
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SGS ID: A6528\_11906\_PCB\_001  
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Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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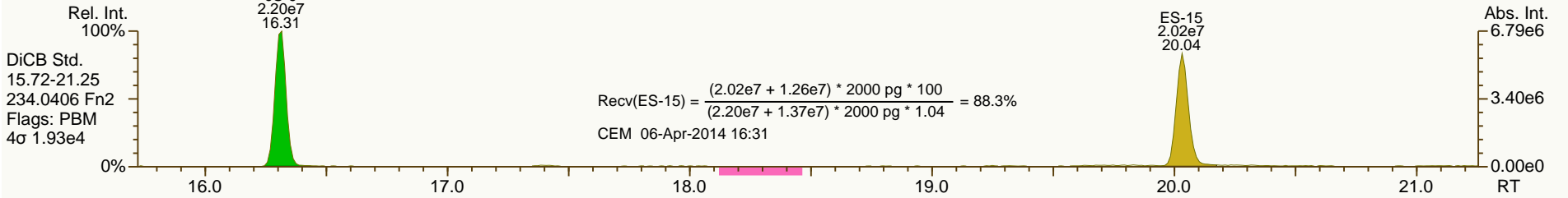
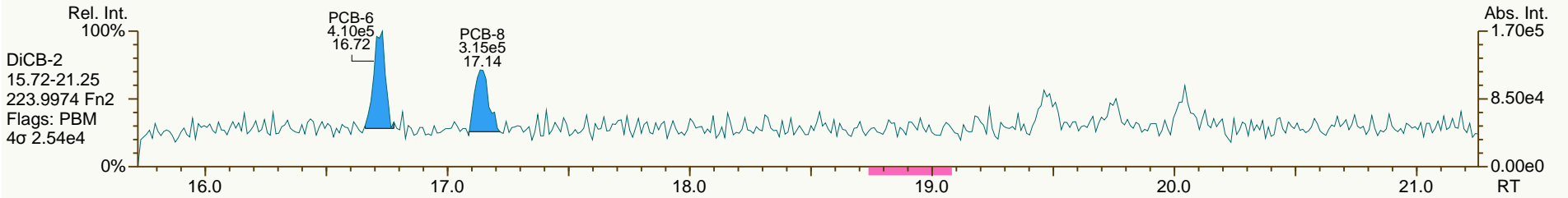
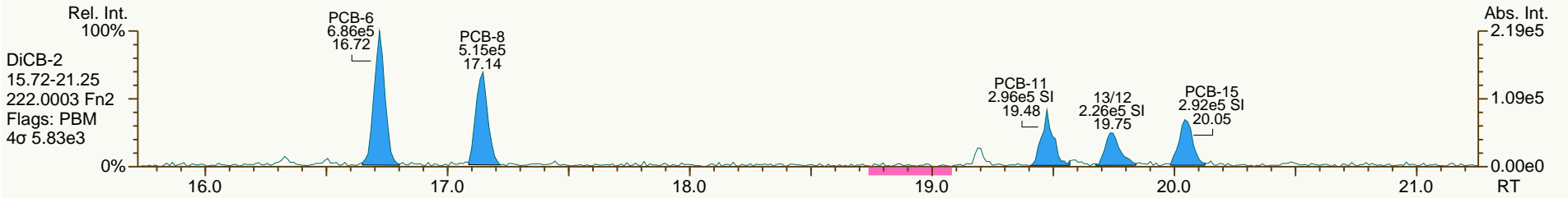




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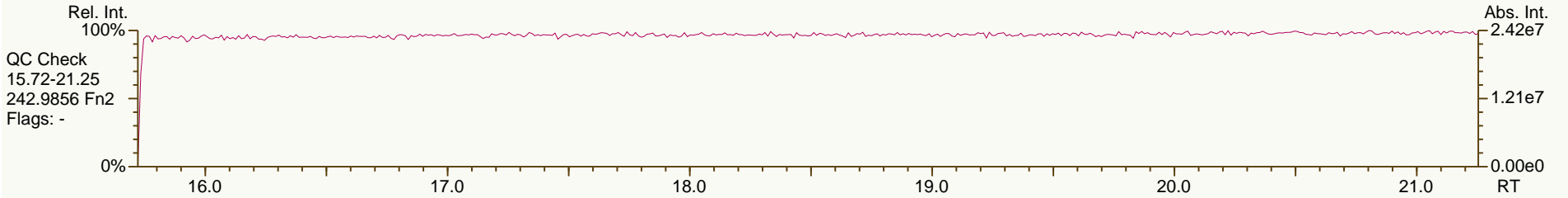
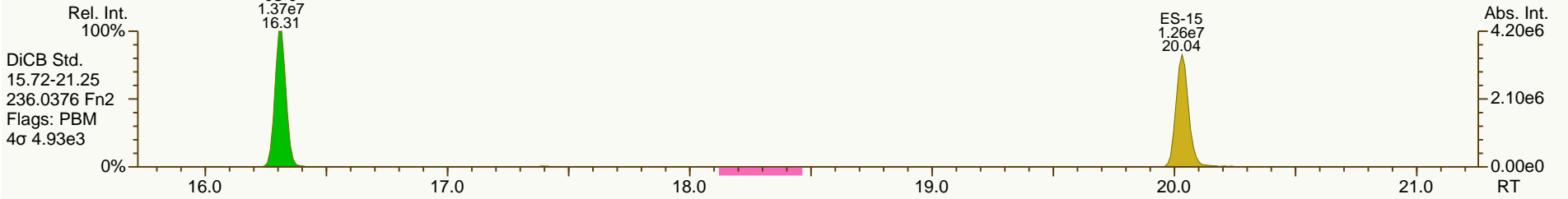
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$$\text{Recv(ES-15)} = \frac{(2.02e7 + 1.26e7) * 2000 \text{ pg} * 100}{(2.20e7 + 1.37e7) * 2000 \text{ pg} * 1.04} = 88.3\%$$

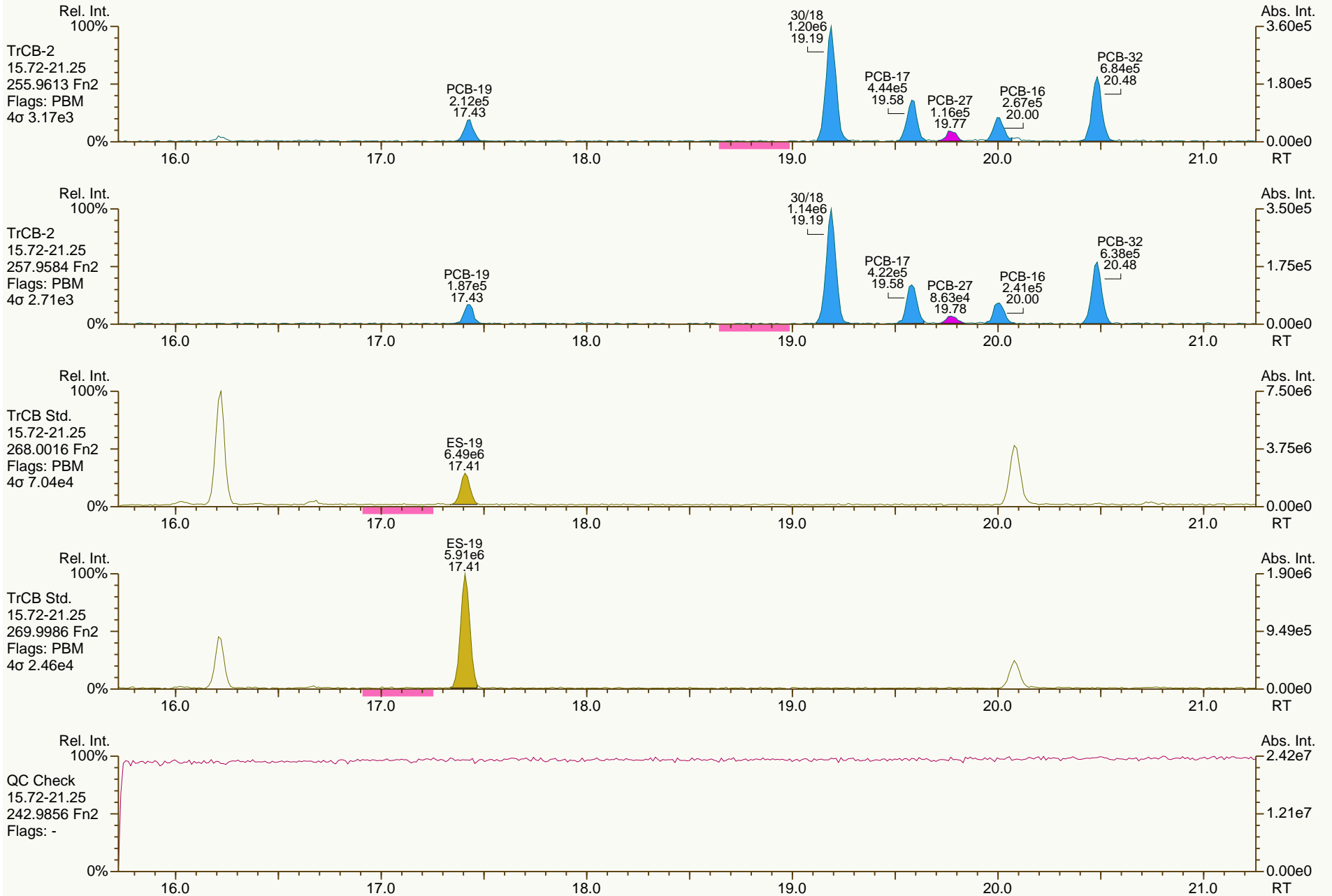
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SGS ID: A6528\_11906\_PCB\_001  
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Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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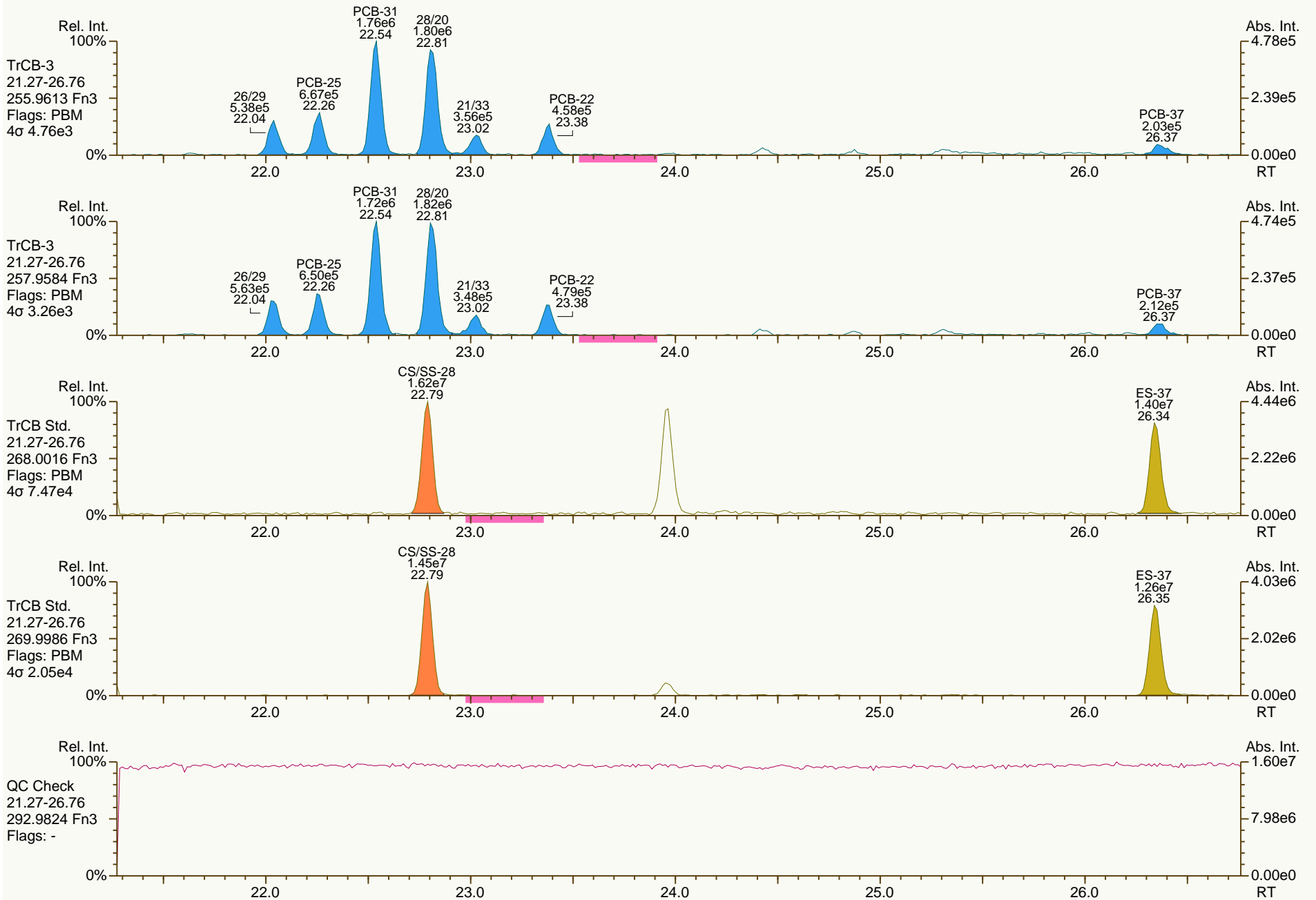
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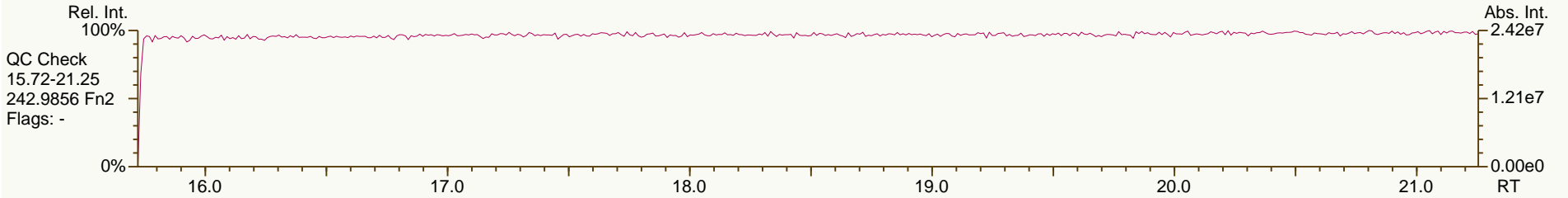
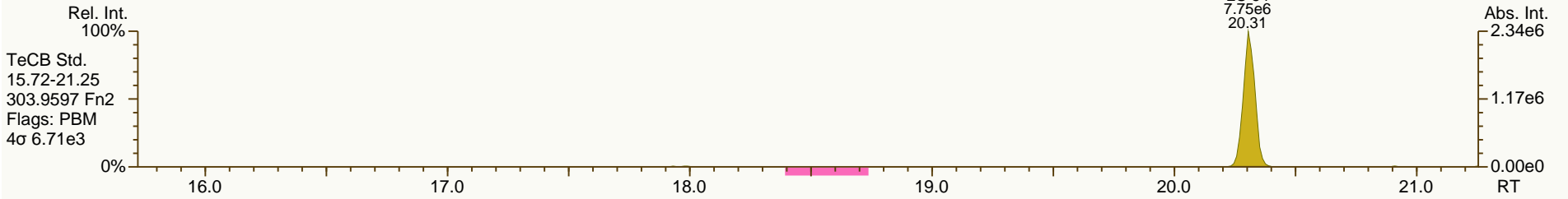
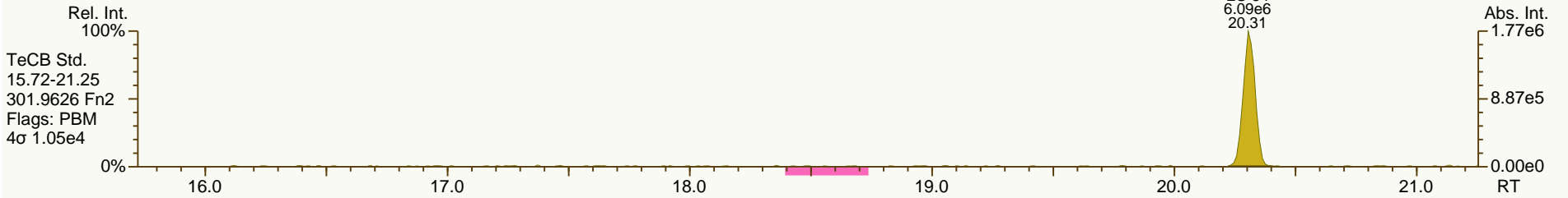
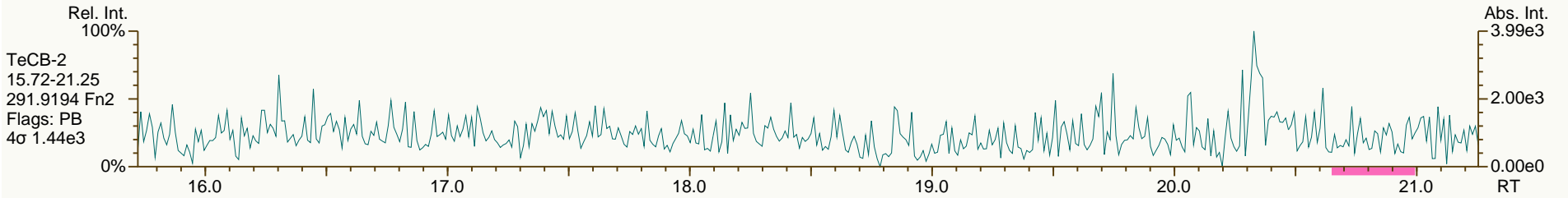
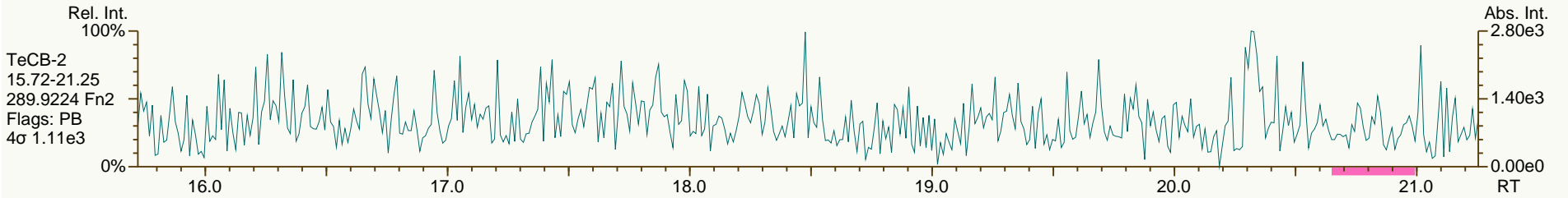
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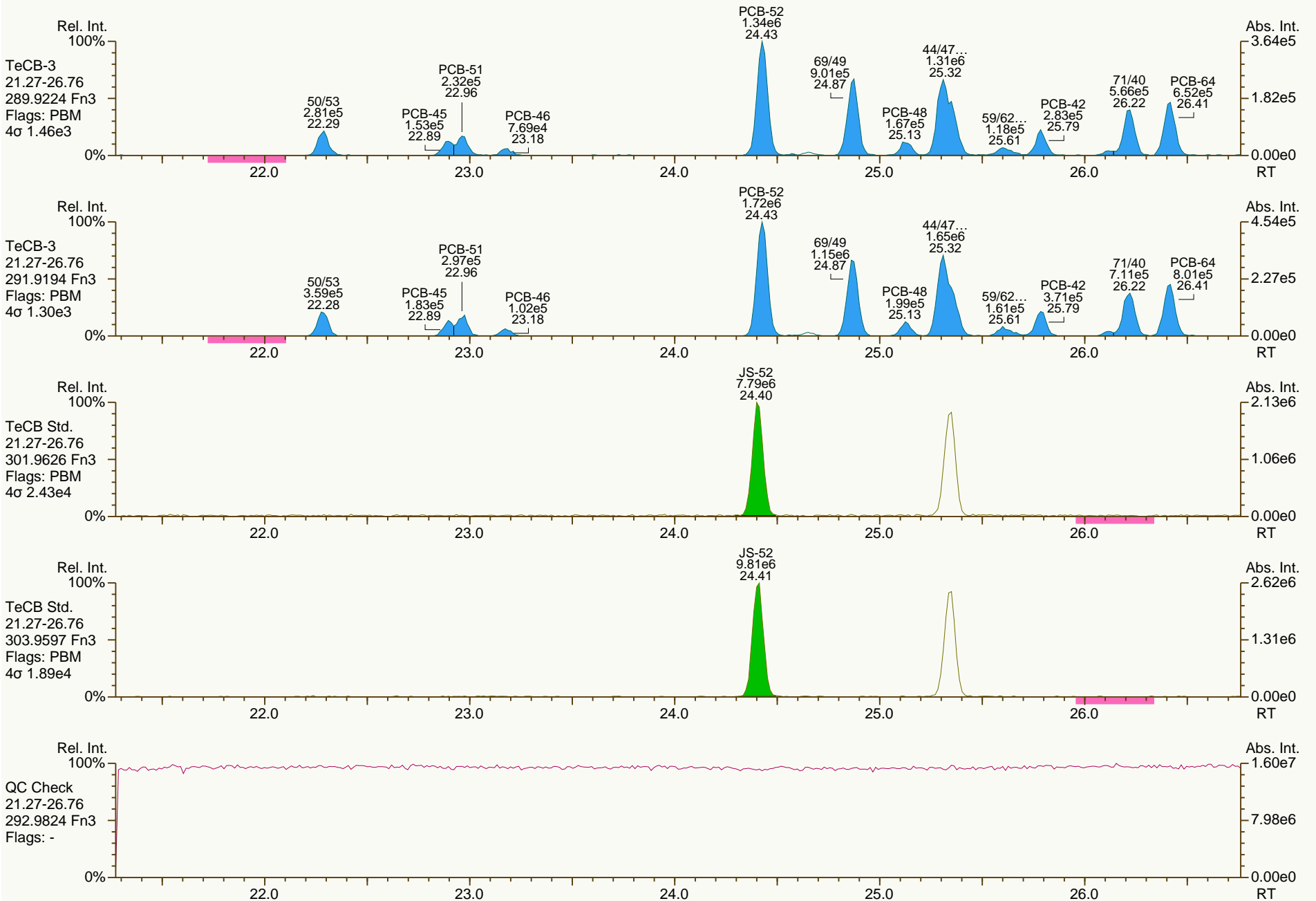
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SGS ID: A6528\_11906\_PCB\_001  
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 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 27

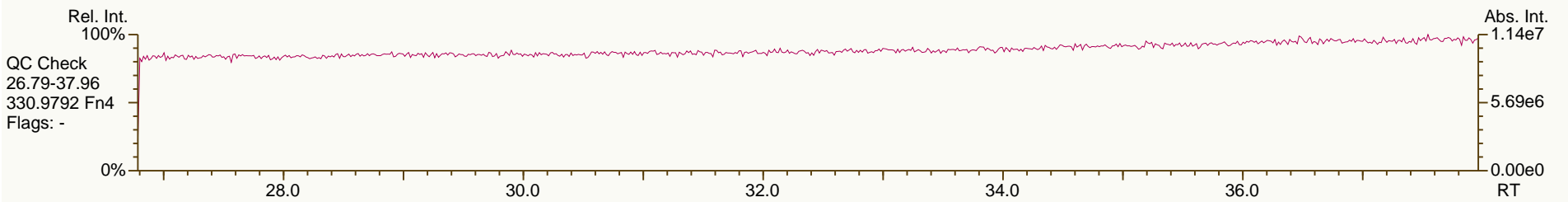
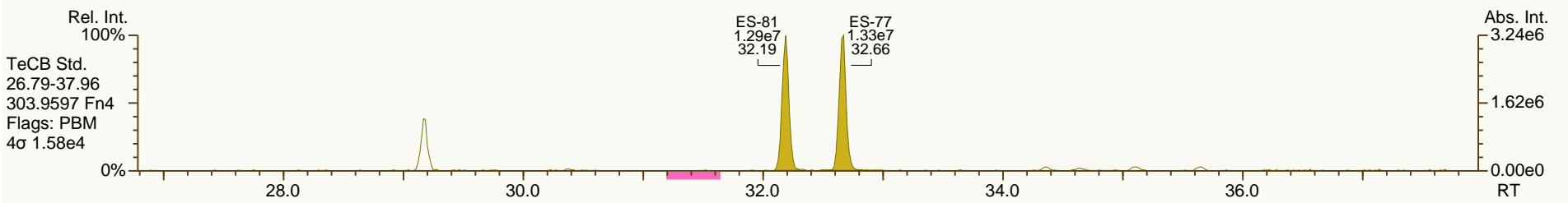
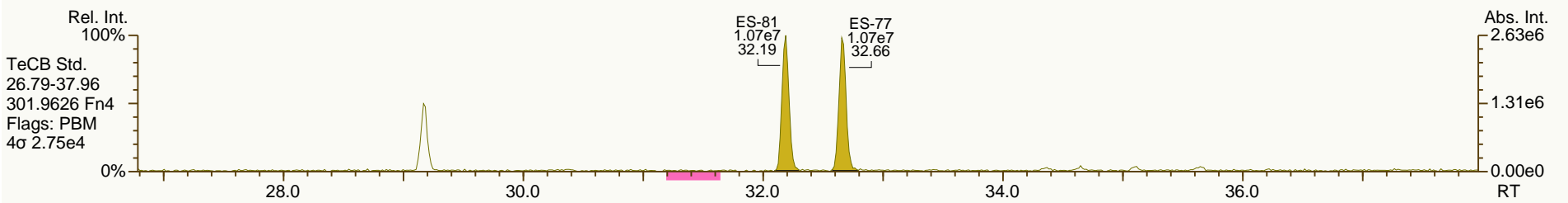
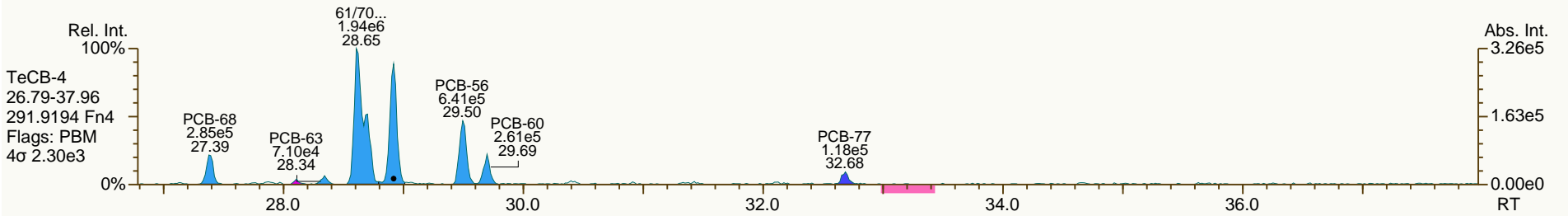
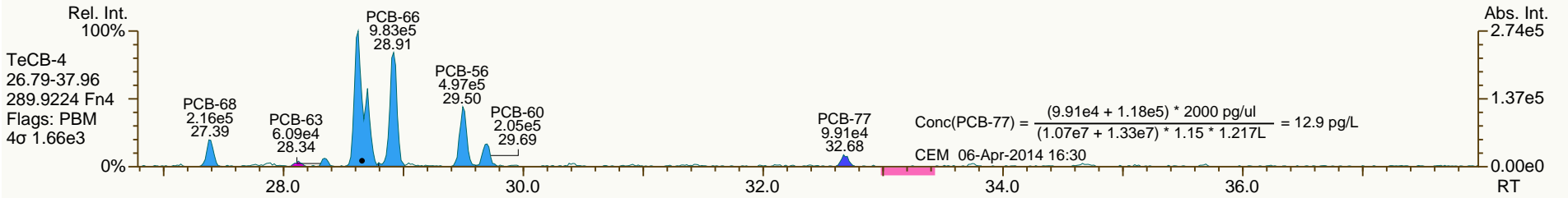
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SGS ID: A6528\_11906\_PCB\_001  
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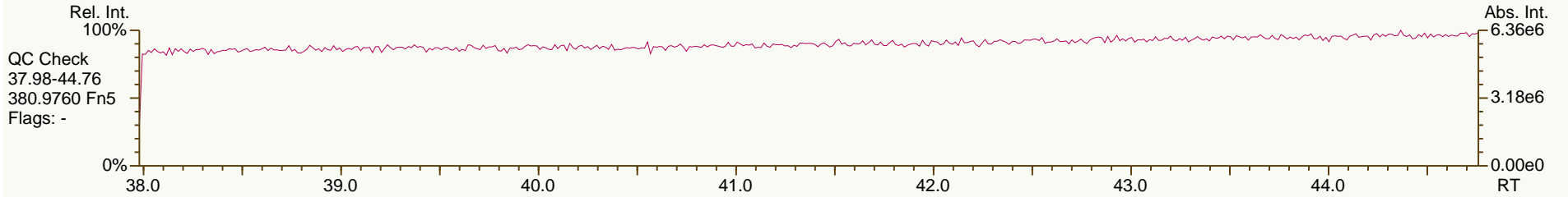
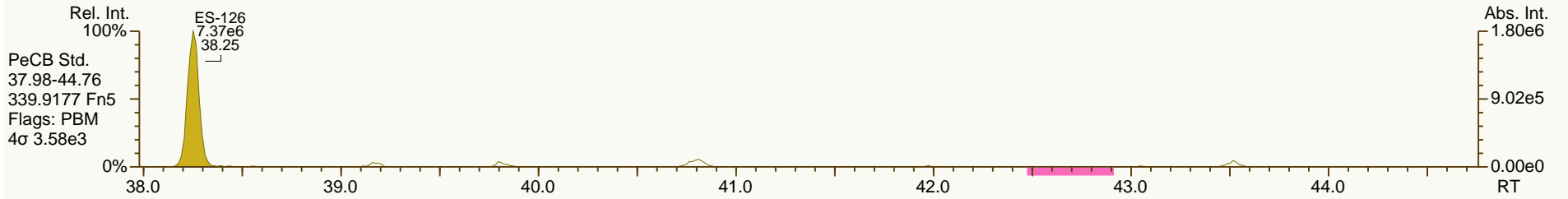
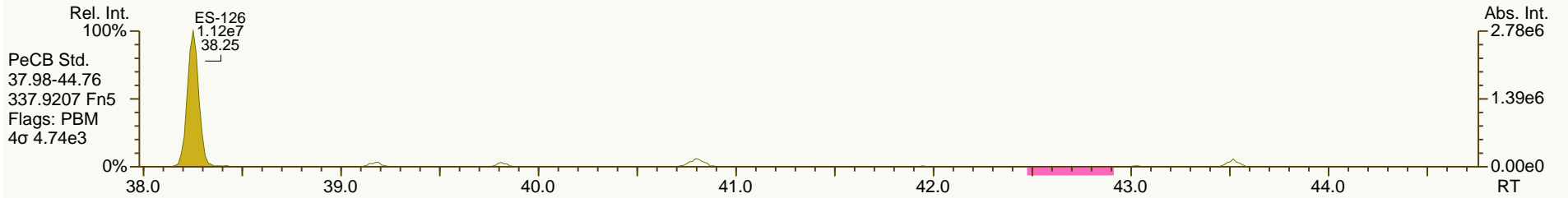
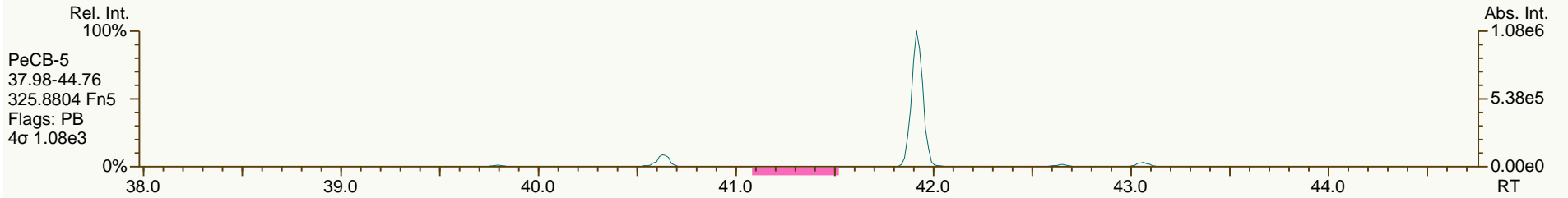
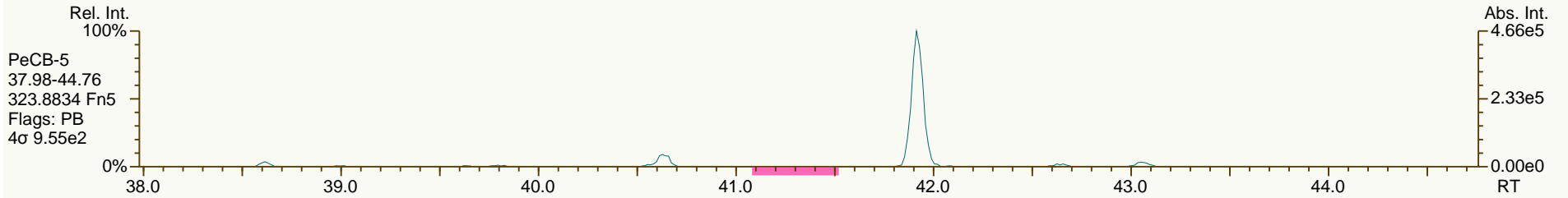




SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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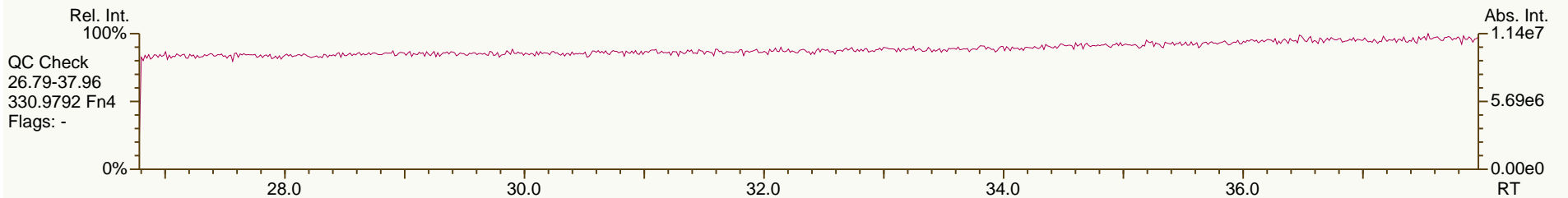
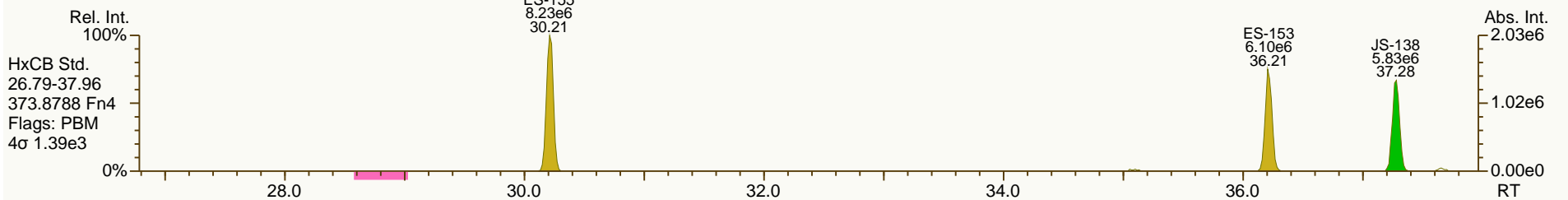
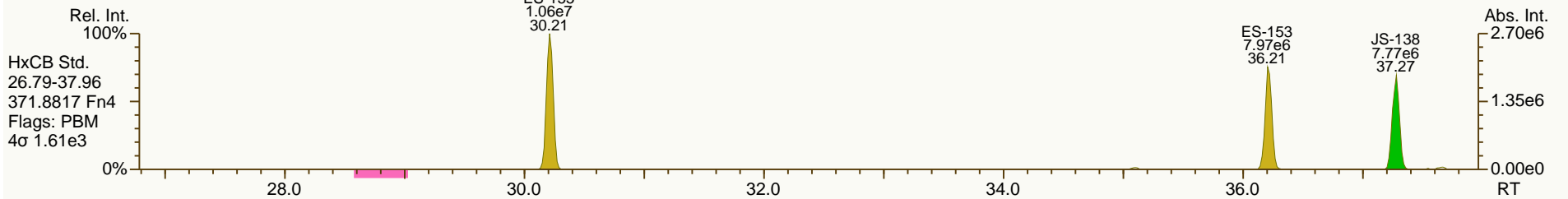
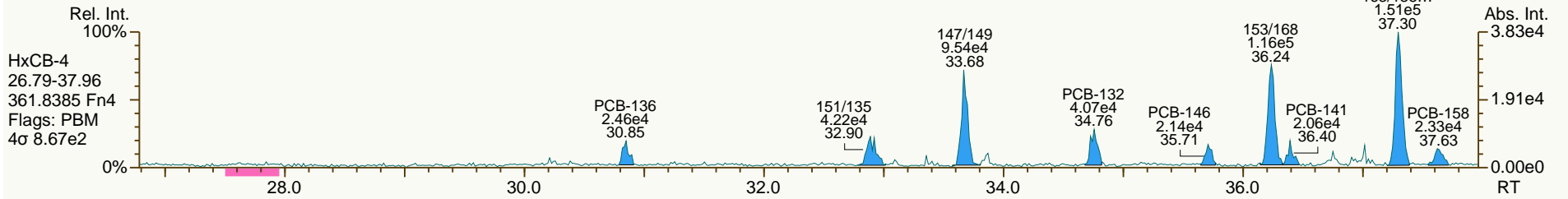
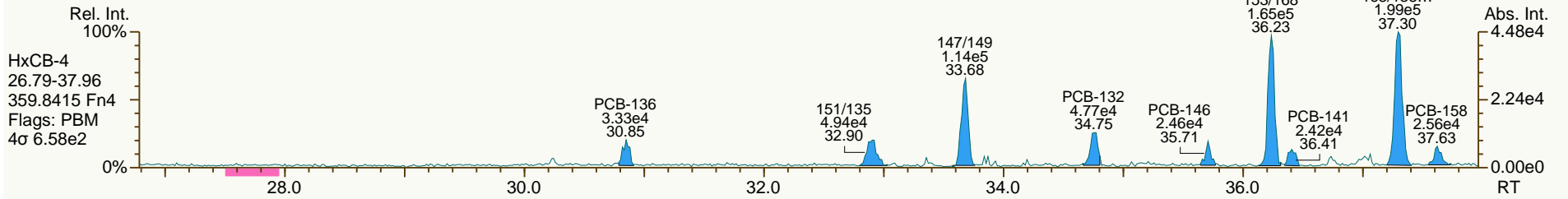
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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

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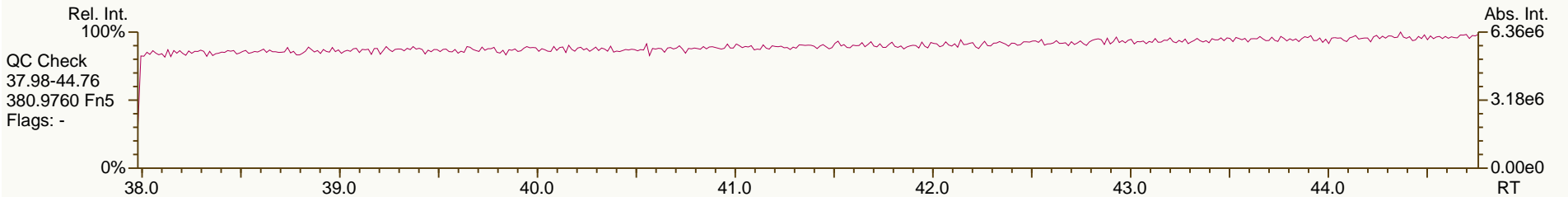
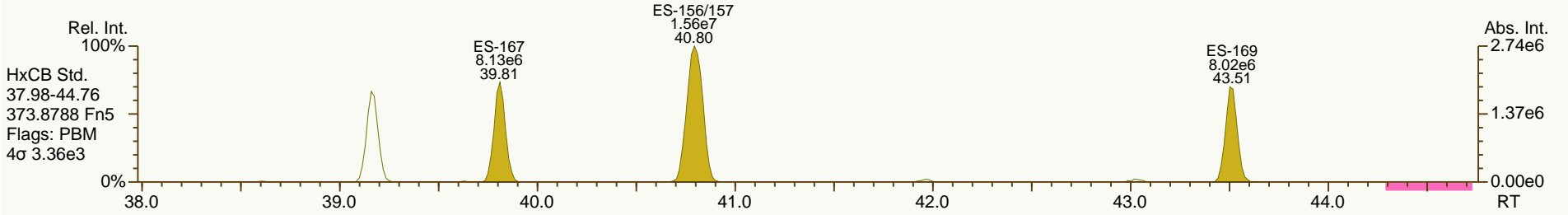
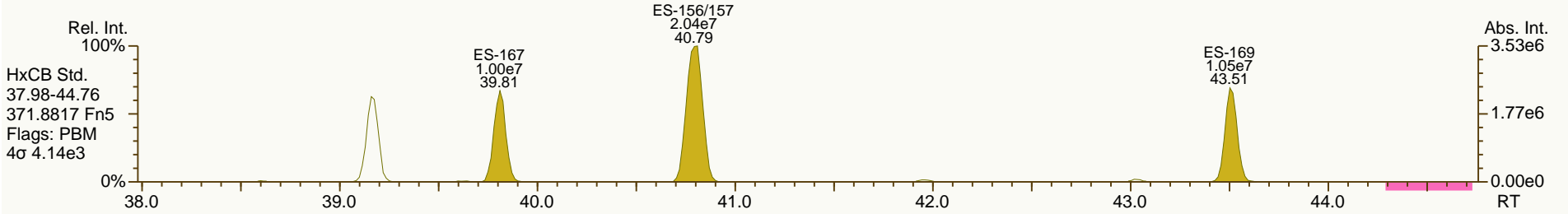
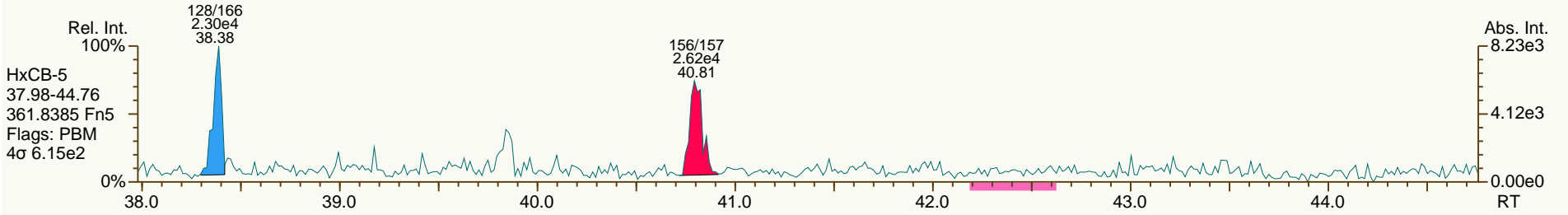
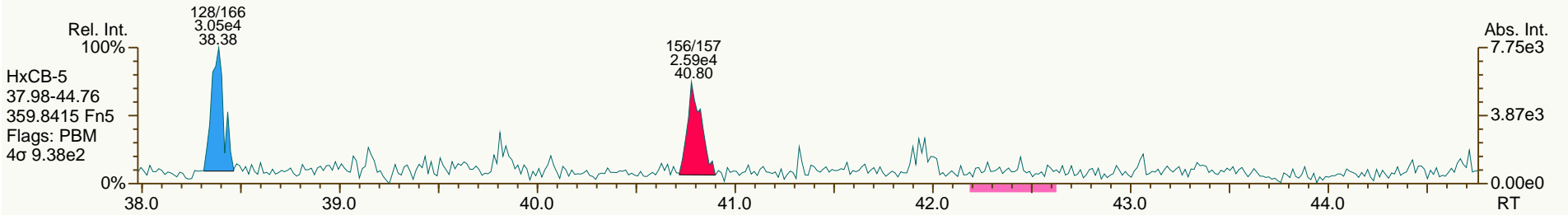
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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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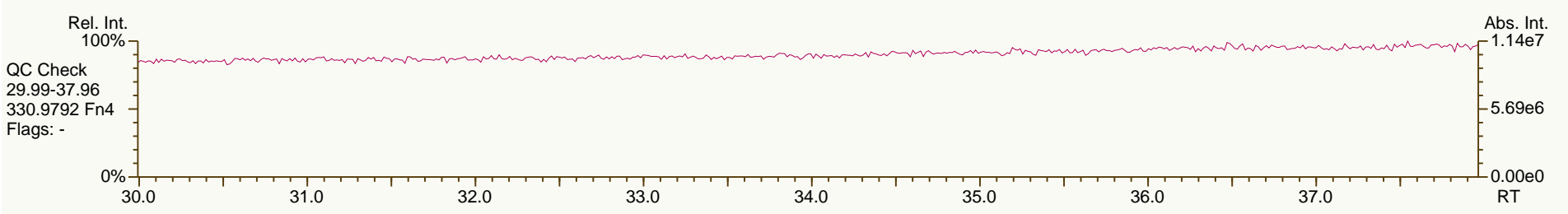
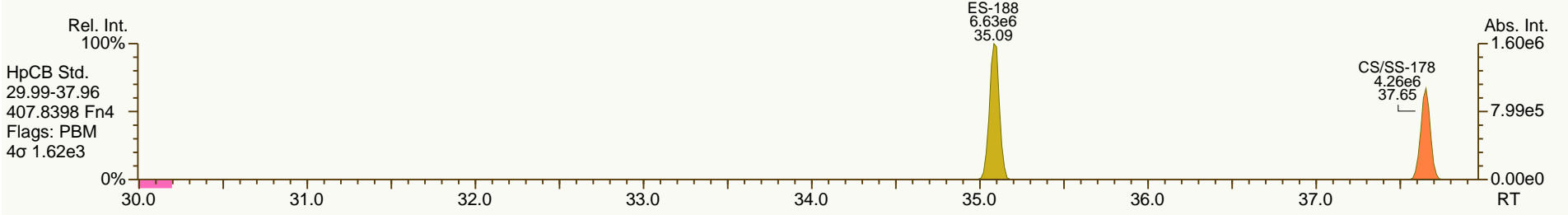
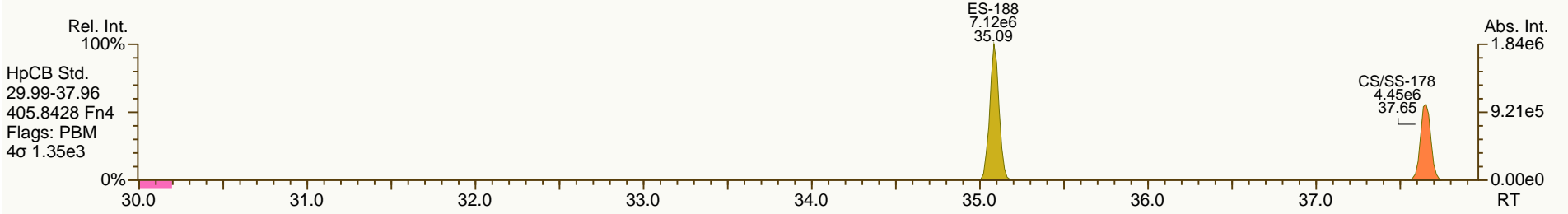
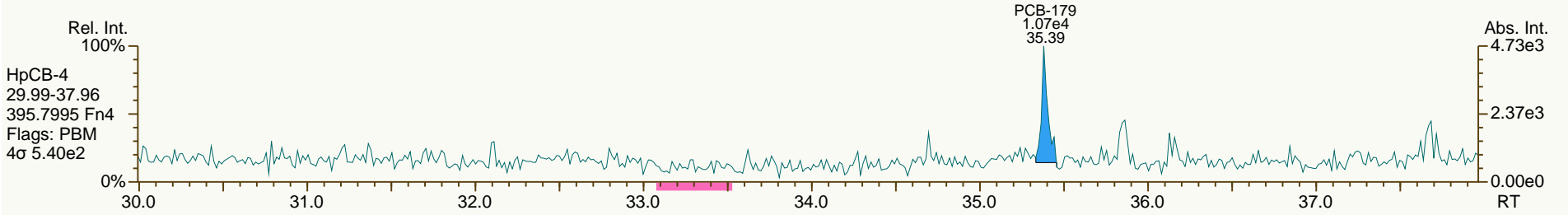
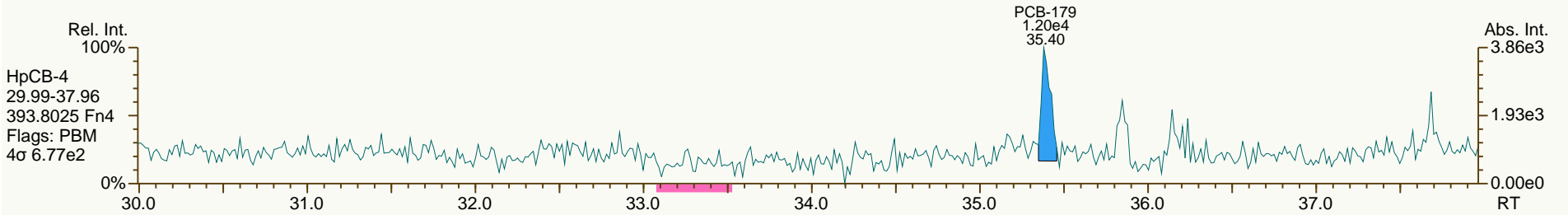
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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 27

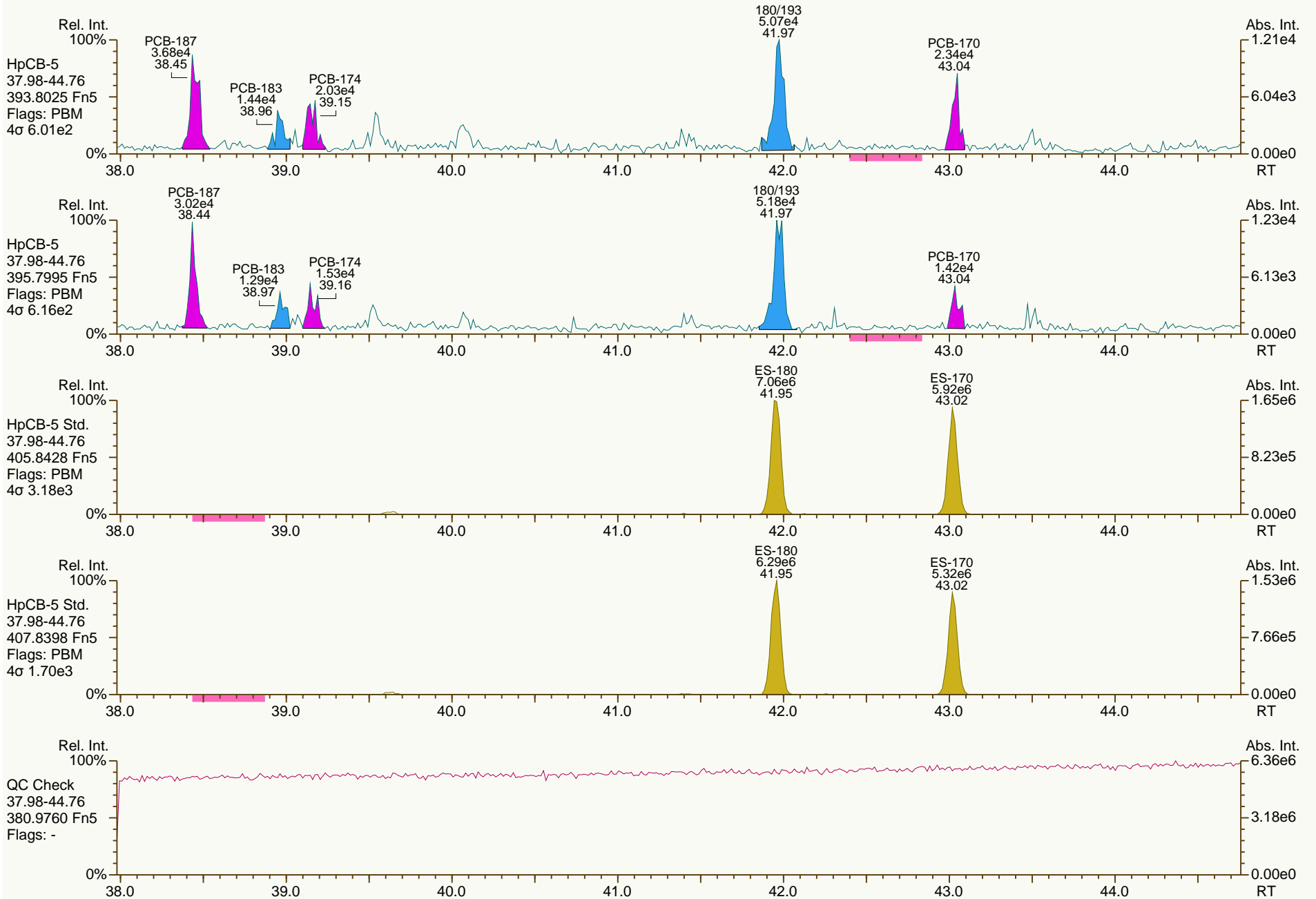
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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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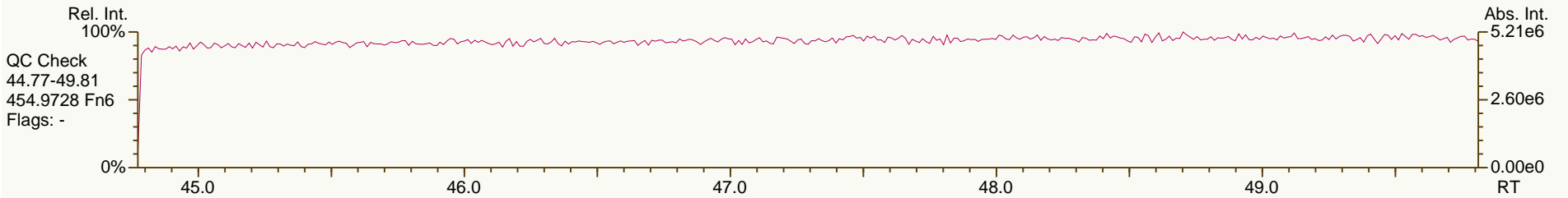
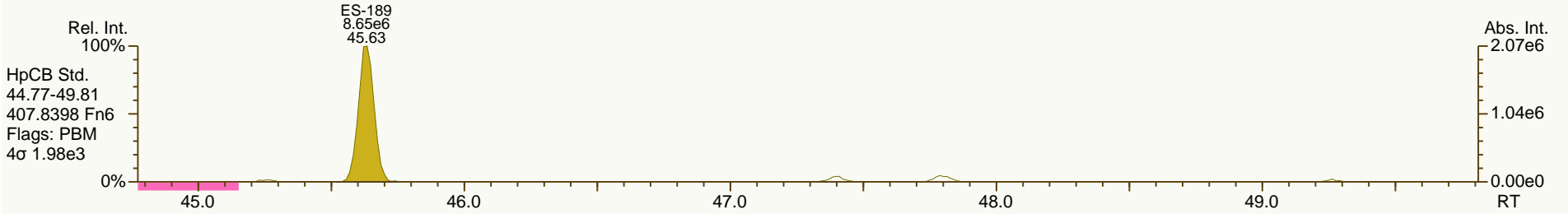
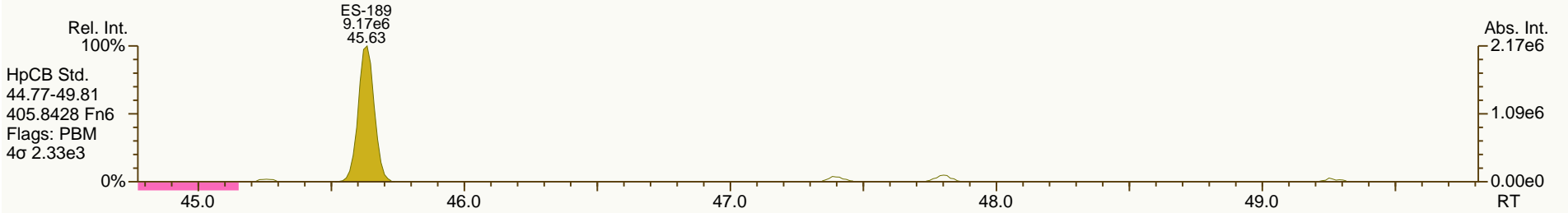
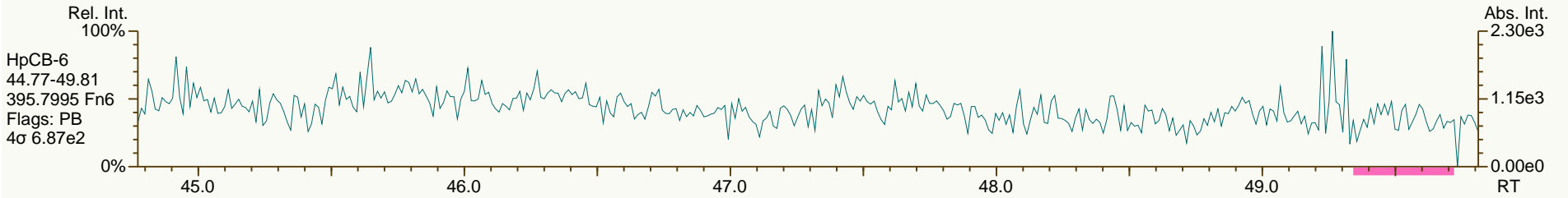
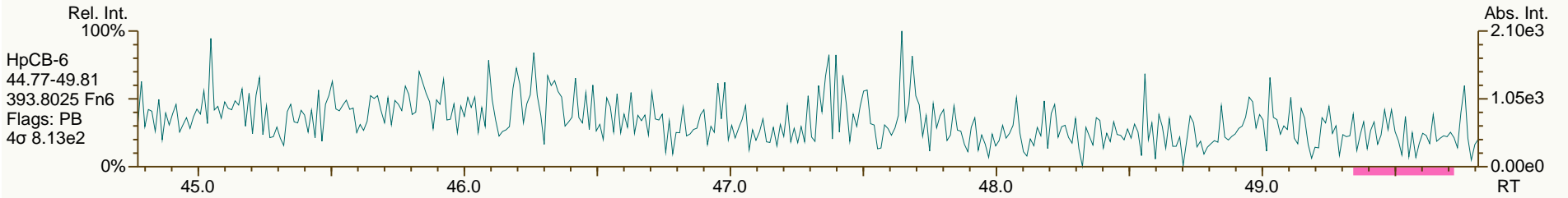
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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 27

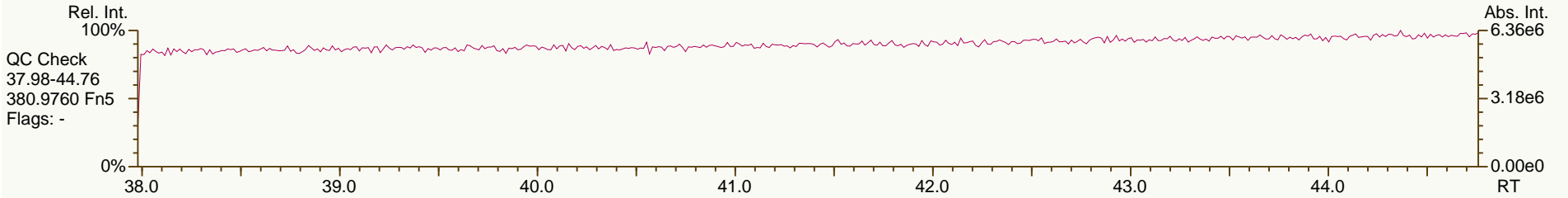
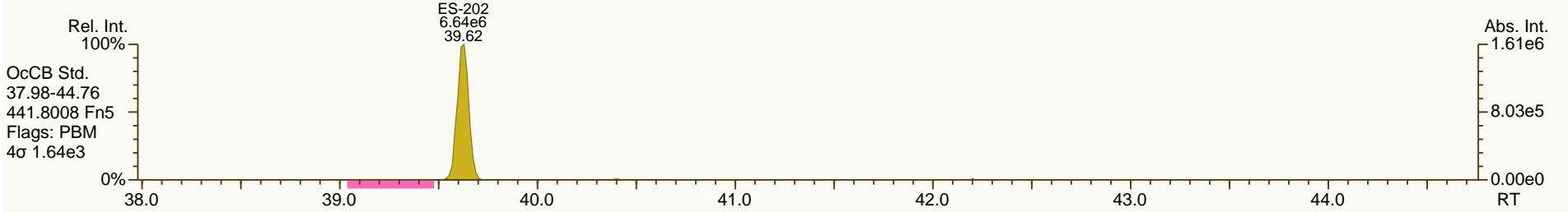
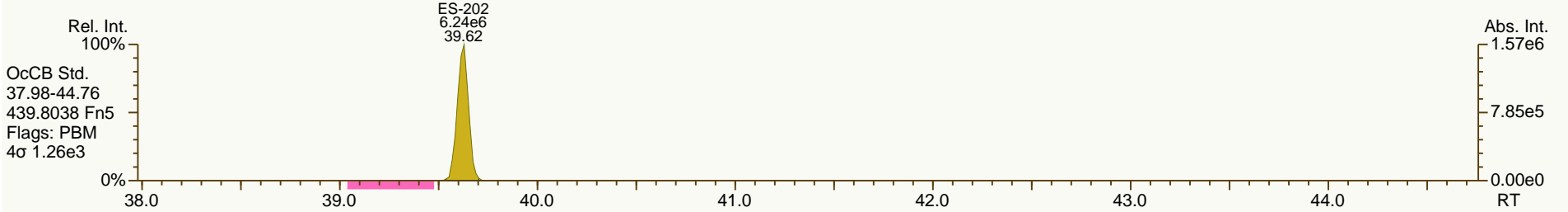
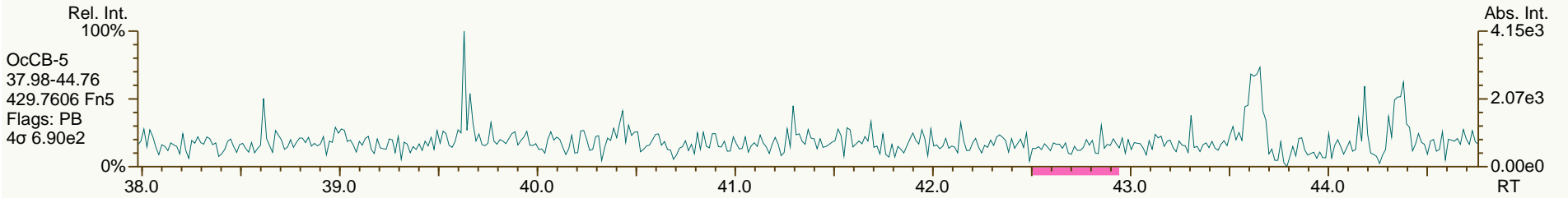
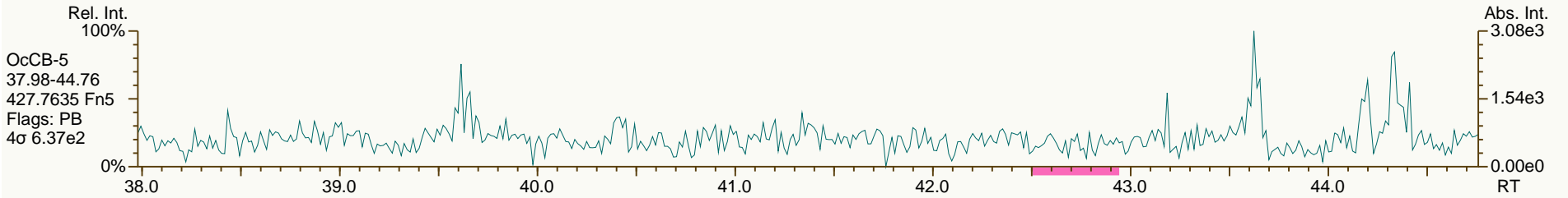
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SGS ID: A6528\_11906\_PCB\_001  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 27

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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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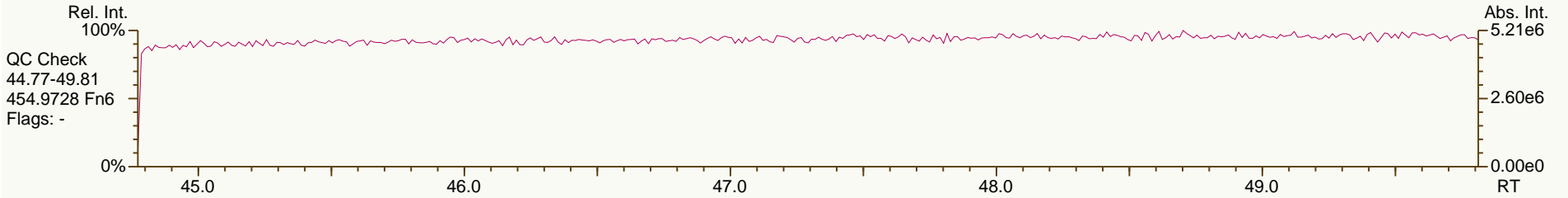
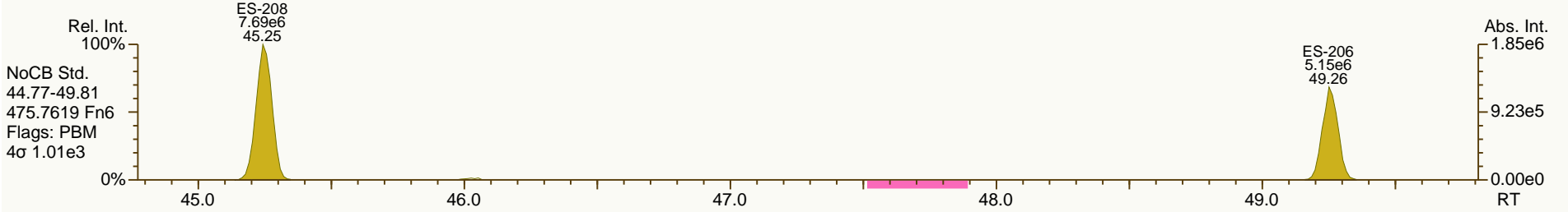
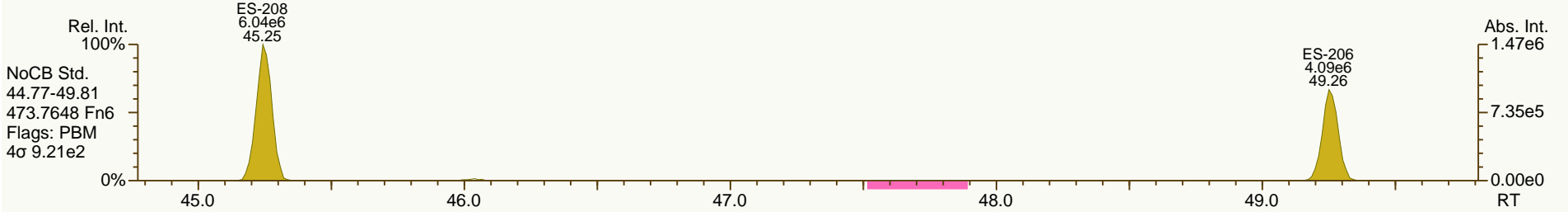
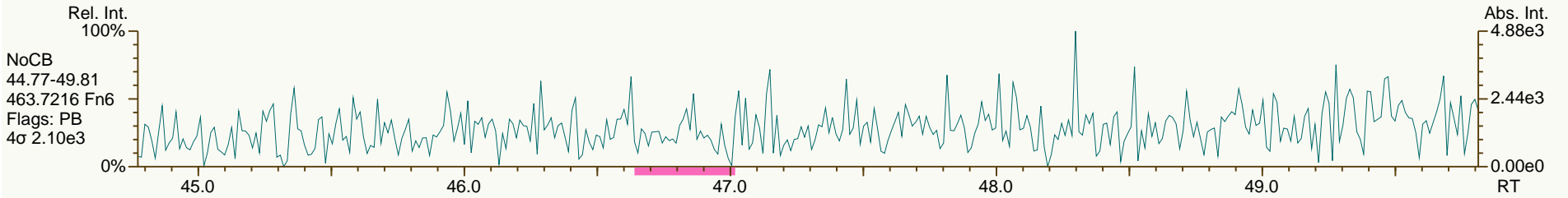
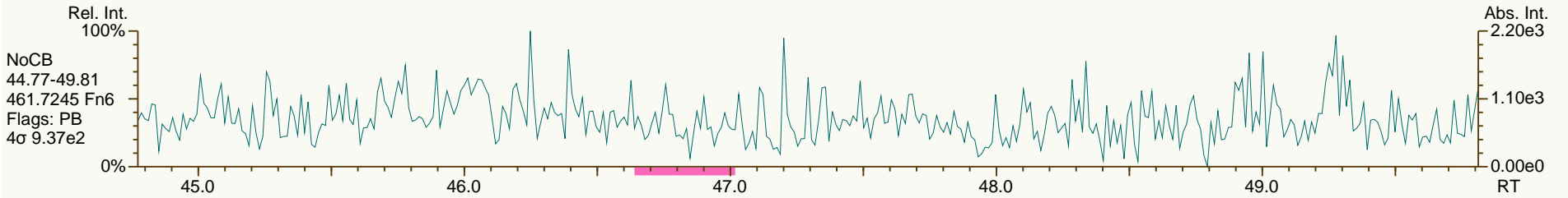




SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

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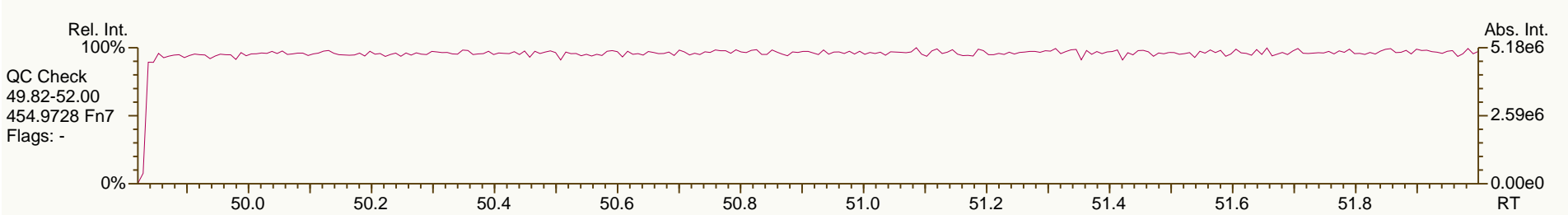
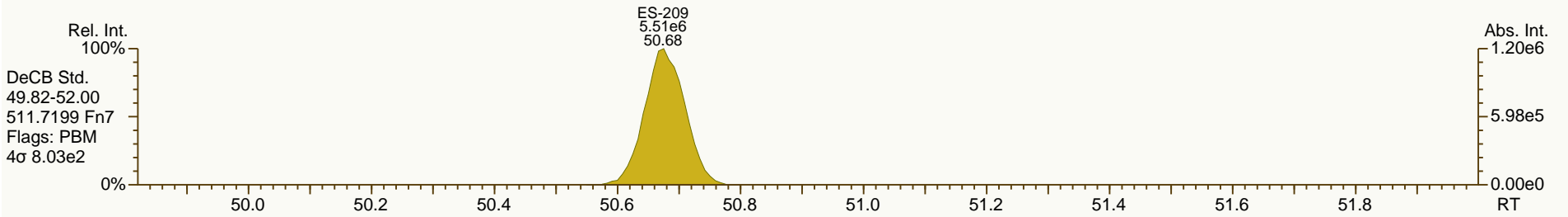
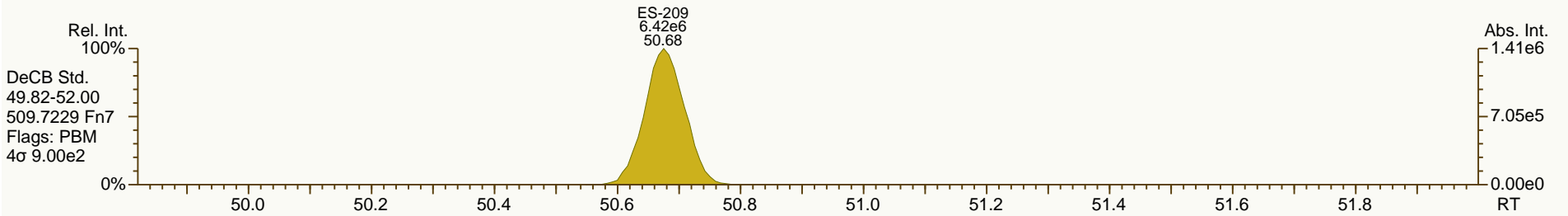
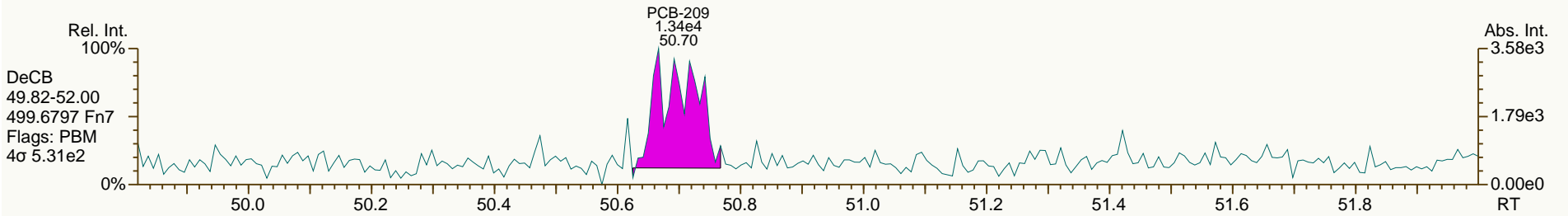
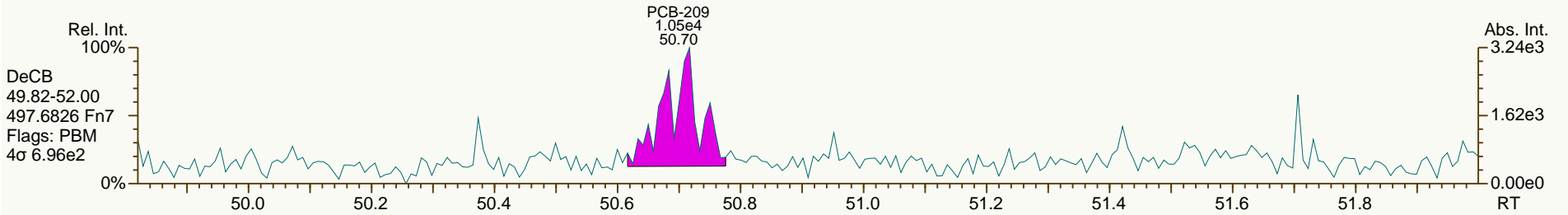
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SGS ID: A6528\_11906\_PCB\_001  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-N (TOTAL)  
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Lab ID: A6528\_11906\_PCB\_002

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Wt/Vol: 0.97 L

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Client ID: PB099-1SWMID-140319-MD (TOTAL)

UTP: 05-Apr-2014 02:04 CEM

J-level: 10.3 pg/L Split: 1

Checkcode: 334-515-WYK

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RPT: 06-Apr-2014 16:18 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.68		1.0006	1.0005	-0.2	5.53E+05	0.78	1.15	14	4.44E+03	1.15
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.44E+03	1.25
PCB-105 233'44'-PeCB	35.66		1.0007	1.0007	0	1.01E+06	0.61	1.11	32	1.65E+03	0.541
PCB-114 2344'5'-PeCB	35.11	J EMPC	1.0006	1.0005	-0.2	6.65E+04	0.85	1.20	2	1.65E+03	0.519
PCB-118 23'44'5'-PeCB	34.65		1.0007	1.0006	-0.2	2.15E+06	0.62	1.19	65.1	1.65E+03	0.523
PCB-123 23'44'5'-PeCB	34.37	J	1.0007	1.0006	-0.2	6.38E+04	0.54	1.21	1.94	1.65E+03	0.518
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.36E+03	0.872
PCB-156/157 ...-HxCB	40.80	J EMPC C	1.0005	1.0002	-0.7	9.29E+04	0.95	1.10	3.37	1.43E+03	0.754
PCB-167 23'44'55'-HxCB	39.83	J	1.0006	1.0005	-0.2	4.53E+04	1.37	1.16	1.5	1.43E+03	0.479
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.43E+03	0.524
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.43E+03	0.6
PCB-209 DeCB	50.70	J B	1.0000	1.0004	+1.2	4.75E+04	1.06	1.11	2.95	1.13E+03	0.828
ES PCB-1	11.81		0.7244	0.7244	0	5.46E+07	3.30	1.19	45.1 %	15%	150%
ES PCB-3	14.09		0.8640	0.8641	+0.1	6.06E+07	3.39	1.09	55 %	15%	150%
ES PCB-4	14.33		0.8793	0.8792	-0.1	3.27E+07	1.62	0.52	61.7 %	25%	150%
ES PCB-15	20.02		1.2279	1.2283	+0.5	9.78E+07	1.58	1.04	92.6 %	25%	150%
ES PCB-19	17.40		1.0674	1.0674	0	3.48E+07	1.09	0.51	67.8 %	25%	150%
ES PCB-37	26.34		1.0793	1.0794	+0.2	8.07E+07	1.12	1.66	92.6 %	25%	150%
ES PCB-54	20.30		0.8322	0.8321	-0.1	4.25E+07	0.77	0.86	94.2 %	25%	150%
ES PCB-77	32.66		1.3381	1.3385	+0.8	7.07E+07	0.81	1.38	97.5 %	25%	150%
ES PCB-81	32.18		1.3186	1.3190	+0.8	6.76E+07	0.79	1.37	94.3 %	25%	150%
ES PCB-104	25.26		0.8317	0.8316	-0.2	4.16E+07	1.59	0.80	122 %	25%	150%
ES PCB-105	35.64		1.1729	1.1730	+0.2	5.84E+07	1.59	1.20	115 %	25%	150%
ES PCB-114	35.09		1.1551	1.1552	+0.2	5.69E+07	1.63	1.22	110 %	25%	150%
ES PCB-118	34.63		1.1398	1.1399	+0.2	5.71E+07	1.60	1.16	116 %	25%	150%
ES PCB-123	34.35		1.1306	1.1307	+0.2	5.60E+07	1.57	1.19	111 %	25%	150%
ES PCB-126	38.25		1.2588	1.2590	+0.5	5.37E+07	1.57	1.03	123 %	25%	150%
ES PCB-153	36.21		0.9715	0.9715	0	4.06E+07	1.32	1.11	99.9 %	25%	150%
ES PCB-155	30.21		0.8106	0.8105	-0.2	5.13E+07	1.29	1.59	87.9 %	25%	150%
ES PCB-156/157	40.79		1.0943	1.0944	+0.2	1.04E+08	1.28	1.60	88.1 %	25%	150%
ES PCB-167	39.81		1.0679	1.0680	+0.2	5.37E+07	1.30	1.67	87.6 %	25%	150%
ES PCB-169	43.51		1.1671	1.1672	+0.3	5.15E+07	1.26	1.56	90.1 %	25%	150%
ES PCB-170	43.02		0.9078	0.9077	-0.3	3.05E+07	1.07	0.95	98 %	25%	150%
ES PCB-180	41.95		0.8852	0.8852	0	3.61E+07	1.08	1.14	97.4 %	25%	150%
ES PCB-188	35.08		0.7404	0.7403	-0.2	3.94E+07	1.10	0.94	114 %	25%	150%
ES PCB-189	45.63		0.9628	0.9628	0	4.84E+07	1.04	1.58	107 %	25%	150%
ES PCB-202	39.62		0.8361	0.8360	-0.2	3.70E+07	0.91	0.97	104 %	25%	150%
ES PCB-205	47.79		1.0084	1.0084	0	3.44E+07	0.89	1.24	96.7 %	25%	150%
ES PCB-206	49.25		1.0393	1.0393	0	2.33E+07	0.81	0.83	98.3 %	25%	150%
ES PCB-208	45.24		0.9547	0.9547	0	3.65E+07	0.80	1.17	109 %	25%	150%
ES PCB-209	50.68		1.0692	1.0693	+0.3	2.98E+07	1.18	1.11	94.1 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.78		0.9337	0.9337	0	9.95E+07	1.12	1.11	111 %	30%	135%
SS PCB-111	32.67		1.0754	1.0754	0	5.94E+07	1.60	1.03	103 %	30%	135%
SS PCB-178	37.65		1.0101	1.0101	0	2.62E+07	1.05	0.62	108 %	30%	135%
CS PCB-28	22.78		0.9337	0.9337	0	9.95E+07	1.12	1.85	103 %	30%	135%
CS PCB-111	32.67		1.0754	1.0754	0	5.94E+07	1.60	1.22	115 %	30%	135%
CS PCB-178	37.65		1.0101	1.0101	0	2.62E+07	1.05	0.58	123 %	30%	135%
JS PCB-9	16.30					1.02E+08	1.59				
JS PCB-52	24.40					5.24E+07	0.83				
JS PCB-101	30.38					4.24E+07	1.60				
JS PCB-138	37.27					3.67E+07	1.29				
JS PCB-194	47.39					2.86E+07	0.92				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
						Mono-CBs	15.3	20.4	1.23		
						Di-CBs	231	231	2.02		
						Tri-CBs	1,090	1,090	2.41		
						Tetra-CBs	1,770	1,770	1.1		
						Penta-CBs	592	598	0.59		
						Hexa-CBs	135	148	0.54		
						Hepta-CBs	25	45.1	0.76		
						Octa-CBs	5.72	13.9	0.754		
						Nona-CBs	0	0	2.09		
PCB-1 2-MoCB	11.82		1.0011	1.0011	0	3.29E+05	2.90	0.95	13.1	4.93E+03	1.2
PCB-2 3-MoCB	13.91	J	0.9880	0.9877	-0.3	7.82E+04	3.40	1.18	2.26	4.93E+03	1.08
PCB-3 4-MoCB	14.10	J EMPC	1.0009	1.0008	-0.1	1.50E+05	2.53	1.01	5.06	4.93E+03	1.26
PCB-4 22'-DiCB	14.35		1.0011	1.0011	0	1.67E+06	1.51	1.23	85.4	6.75E+03	2.5
PCB-10 26-DiCB	14.53	J	1.0135	1.0135	0	8.64E+04	SI	1.92	2.84	6.75E+03	1.61
PCB-9 25-DiCB	16.32	J	1.0010	1.0011	+0.1	1.24E+05	SI	0.97	2.69	7.90E+03	1.61
PCB-7 24-DiCB	16.48	J	1.0111	1.0111	0	1.03E+05	SI	1.11	1.96	7.90E+03	1.4
PCB-6 23'-DiCB	16.71		1.0250	1.0250	0	2.19E+06	1.61	1.04	44.7	7.90E+03	1.51
PCB-5 23-DiCB	NotFnd		1.0435	-		0.00E+00		1.04	ND	7.90E+03	1.5
PCB-8 24'-DiCB	17.13		1.0507	1.0510	+0.3	1.66E+06	1.57	1.07	32.8	7.90E+03	1.46
PCB-14 35-DiCB	NotFnd		0.9331	-		0.00E+00		1.24	ND	7.90E+03	1.26
PCB-11 33'-DiCB	19.47	B	0.9720	0.9722	+0.2	1.18E+06	1.70	1.06	23.5	7.90E+03	1.47
PCB-13/12 34' /34-DiCB	19.73	J C	0.9866	0.9855	-1.3	7.78E+05	1.51	1.07	15.4	7.90E+03	1.46
PCB-15 44'-DiCB	20.04		1.0008	1.0006	-0.2	1.05E+06	1.53	1.02	21.7	7.90E+03	1.53
PCB-19 22'6-TrCB	17.42		1.0010	1.0012	+0.2	8.71E+05	1.09	1.15	45	6.56E+03	2.95
PCB-30/18 246/22'5-TrCB	19.18	C	1.1017	1.1023	+0.7	5.31E+06	1.01	1.55	203	6.56E+03	2.19
PCB-17 22'4-TrCB	19.57		1.1247	1.1248	+0.1	2.10E+06	1.04	1.30	95.3	6.56E+03	2.59
PCB-27 23'6-TrCB	19.77		1.1357	1.1360	+0.4	4.81E+05	1.08	1.80	15.8	6.56E+03	1.88
PCB-24 236-TrCB	NotFnd		1.1435	-		0.00E+00		1.77	ND	6.56E+03	1.91
PCB-16 22'3-TrCB	20.00		1.1489	1.1491	+0.2	1.10E+06	1.05	0.95	68.3	6.56E+03	3.55

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.47		1.1763	1.1766	+0.4	3.08E+06	1.04	1.93	94.6	6.56E+03	1.75
PCB-34 23'5'-TrCB	NotFnd		0.8211	-		0.00E+00		1.24	ND	7.76E+03	1.64
PCB-23 235-TrCB	NotFnd		0.8268	-		0.00E+00		1.25	ND	7.76E+03	1.62
PCB-26/29 23'5'/245-TrCB	22.03	C	0.8375	0.8365	-1.3	2.57E+06	0.98	1.27	51.7	7.76E+03	1.6
PCB-25 23'4-TrCB	22.25		0.8451	0.8449	-0.3	3.19E+06	1.01	1.31	62.3	7.76E+03	1.55
PCB-31 24'5-TrCB	22.53		0.8556	0.8555	-0.1	8.36E+06	1.00	1.32	161	7.76E+03	1.53
PCB-28/20 244'/233'-TrCB	22.80	C	0.8663	0.8659	-0.5	8.76E+06	1.02	1.23	182	7.76E+03	1.65
PCB-21/33 234/23'4'-TrCB	23.01	C	0.8732	0.8739	+1.0	1.68E+06	1.02	1.29	33.3	7.76E+03	1.57
PCB-22 234'-TrCB	23.37		0.8875	0.8874	-0.1	2.31E+06	0.99	1.19	49.8	7.76E+03	1.71
PCB-36 33'5-TrCB	NotFnd		0.9397	-		0.00E+00		1.34	ND	7.76E+03	1.51
PCB-39 34'5-TrCB	NotFnd		0.9520	-		0.00E+00		1.34	ND	7.76E+03	1.51
PCB-38 345-TrCB	NotFnd		0.9721	-		0.00E+00		1.21	ND	7.76E+03	1.68
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.16	ND	7.76E+03	1.74
PCB-37 344'-TrCB	26.36		1.0008	1.0009	+0.2	1.06E+06	1.06	1.08	25.1	7.76E+03	1.88
PCB-54 22'66'-TeCB	20.33	J EMPC	1.0010	1.0012	+0.2	4.65E+04	0.96	1.35	1.67	2.61E+03	0.811
PCB-50/53 22'46/22'56'-TeCB	22.28	C	0.9141	0.9131	-1.3	1.61E+06	0.81	0.85	57.7	3.08E+03	1.13
PCB-45 22'36-TeCB	22.88		0.9381	0.9379	-0.3	8.44E+05	0.78	0.70	36.6	3.08E+03	1.38
PCB-51 22'46'-TeCB	22.95		0.9410	0.9408	-0.3	1.58E+06	0.81	0.90	53.6	3.08E+03	1.08
PCB-46 22'36'-TeCB	23.17		0.9497	0.9496	-0.1	4.73E+05	0.75	0.68	21.2	3.08E+03	1.42
PCB-52 22'55'-TeCB	24.42		1.0009	1.0009	0	8.08E+06	0.78	0.83	295	3.08E+03	1.16
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.16	ND	3.08E+03	0.835
PCB-43 22'35-TeCB	24.63		1.0102	1.0096	-0.9	2.55E+05	0.85	0.68	11.5	3.08E+03	1.42
PCB-69/49 23'46/22'45'-TeCB	24.86	C	1.0181	1.0190	+1.3	5.29E+06	0.79	1.03	156	3.08E+03	0.937
PCB-48 22'45-TeCB	25.12		1.0296	1.0296	0	9.67E+05	0.78	0.85	34.9	3.08E+03	1.14
PCB-44/47/65 ...-TeCB	25.32	C	1.0385	1.0377	-1.2	7.80E+06	0.78	0.90	264	3.08E+03	1.07
PCB-59/62/75 ...-TeCB	25.61	J C	1.0498	1.0495	-0.5	7.11E+05	0.77	1.18	18.4	3.08E+03	0.822
PCB-42 22'34'-TeCB	25.78		1.0566	1.0566	0	1.70E+06	0.80	0.76	67.7	3.08E+03	1.26
PCB-41 22'34-TeCB	26.11		1.0702	1.0702	0	2.73E+05	0.73	0.67	12.4	3.08E+03	1.44
PCB-71/40 23'4'6/22'33'-TeCB	26.21	C	1.0741	1.0742	+0.2	3.24E+06	0.80	0.87	114	3.08E+03	1.11
PCB-64 234'6-TeCB	26.41		1.0823	1.0824	+0.2	3.68E+06	0.82	1.24	90.2	3.08E+03	0.778
PCB-72 23'55'-TeCB	27.12	J	0.8429	0.8426	-0.5	6.83E+04	0.82	1.25	1.67	4.44E+03	1.12
PCB-68 23'45'-TeCB	27.38		0.8509	0.8508	-0.2	1.36E+06	0.79	1.32	31.6	4.44E+03	1.06
PCB-57 233'5-TeCB	27.74	J	0.8624	0.8620	-0.7	4.93E+04	0.76	1.19	1.26	4.44E+03	1.17
PCB-58 233'5'-TeCB	NotFnd		0.8687	-		0.00E+00		1.21	ND	4.44E+03	1.15
PCB-67 23'45-TeCB	28.11	J	0.8736	0.8735	-0.2	1.91E+05	0.80	1.29	4.53	4.44E+03	1.08
PCB-63 234'5-TeCB	28.34	J	0.8806	0.8806	0	3.36E+05	0.86	1.34	7.63	4.44E+03	1.04
PCB-61/70/74/76 ...-TeCB	28.64	C	0.8897	0.8900	+0.5	9.15E+06	0.83	1.22	229	4.44E+03	1.14
PCB-66 23'44'-TeCB	28.91		0.8984	0.8984	0	5.58E+06	0.83	1.16	147	4.44E+03	1.21
PCB-55 233'4-TeCB	NotFnd		0.9030	-		0.00E+00		1.15	ND	4.44E+03	1.21
PCB-56 233'4'-TeCB	29.49		0.9165	0.9165	0	2.76E+06	0.81	1.15	73.6	4.44E+03	1.22
PCB-60 2344'-TeCB	29.69		0.9225	0.9225	0	1.06E+06	0.80	1.16	27.8	4.44E+03	1.2
PCB-80 33'55'-TeCB	NotFnd		0.9326	-		0.00E+00		1.35	ND	4.44E+03	1.03
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.40	ND	4.44E+03	0.998
PCB-78 33'45-TeCB	NotFnd		0.9888	-		0.00E+00		1.12	ND	4.44E+03	1.24
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.68E+03	0.564
PCB-96 22'366'-PeCB	25.61	J EMPC	1.0135	1.0136	+0.2	6.83E+04	0.51	1.19	2.85	1.68E+03	0.681
PCB-103 22'45'6-PeCB	NotFnd		0.8985	-		0.00E+00		0.96	ND	1.65E+03	0.655
PCB-94 22'356'-PeCB	NotFnd		0.9048	-		0.00E+00		0.80	ND	1.65E+03	0.781

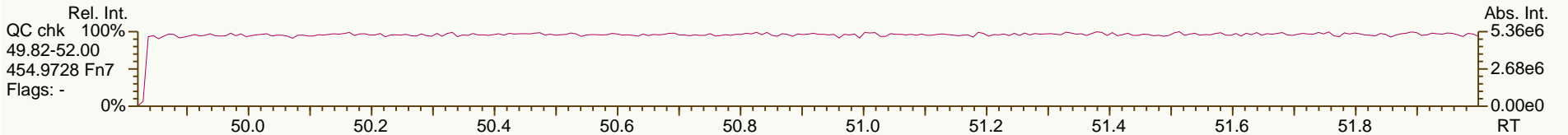
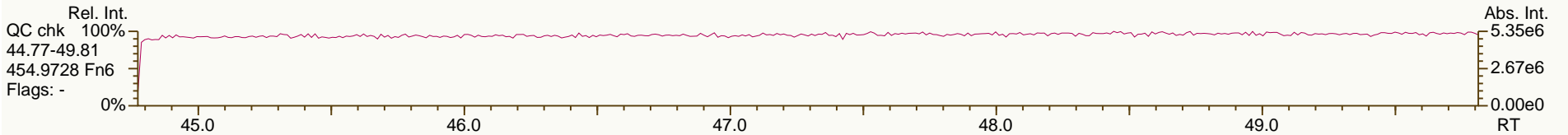
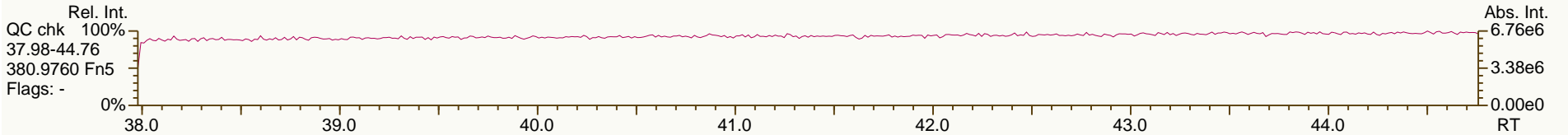
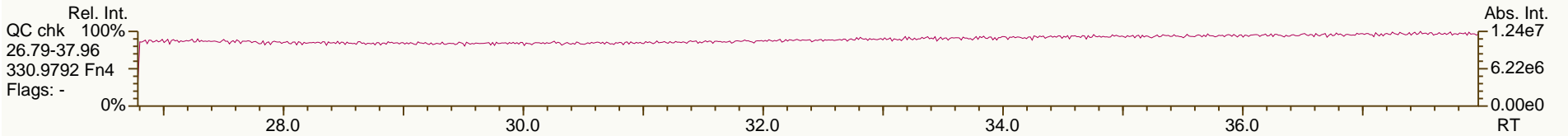
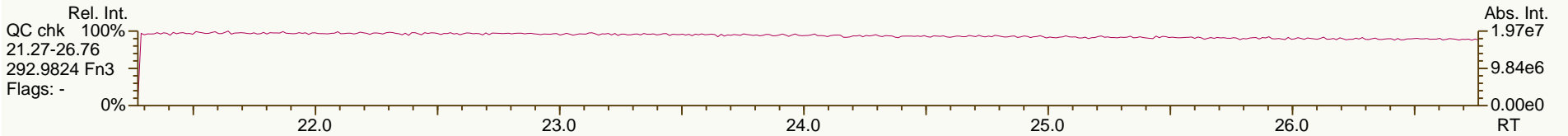
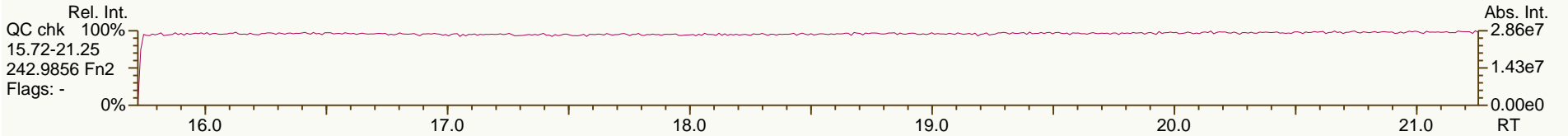
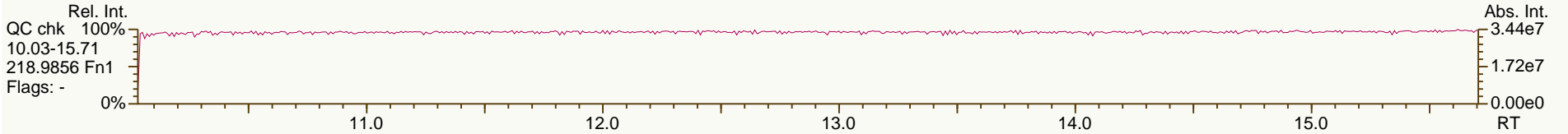
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.87		0.9173	0.9173	0	1.68E+06	0.63	0.87	71.2	1.65E+03	0.721
PCB-100/93 22'44'6/22'356-PeCB	28.07	J EMPC C	0.9243	0.9239	-0.7	3.77E+04	0.76	0.87	1.59	1.65E+03	0.718
PCB-102 22'456'-PeCB	28.19	J	0.9278	0.9280	+0.3	1.59E+05	0.64	0.86	6.81	1.65E+03	0.73
PCB-98 22'34'6'-PeCB	NotFnd		0.9301	-		0.00E+00		0.89	ND	1.65E+03	0.709
PCB-88 22'346-PeCB	NotFnd		0.9402	-		0.00E+00		0.81	ND	1.65E+03	0.776
PCB-91 22'34'6-PeCB	28.62		0.9423	0.9422	-0.2	4.71E+05	0.66	0.91	19	1.65E+03	0.688
PCB-84 22'33'6-PeCB	28.82		0.9486	0.9486	0	7.22E+05	0.64	0.72	36.7	1.65E+03	0.867
PCB-89 22'346'-PeCB	NotFnd		0.9623	-		0.00E+00		0.77	ND	1.65E+03	0.813
PCB-121 23'45'6-PeCB	NotFnd		0.9735	-		0.00E+00		1.22	ND	1.65E+03	0.512
PCB-92 22'355'-PeCB	29.89		0.9840	0.9840	0	3.45E+05	0.57	0.83	15.4	1.65E+03	0.76
PCB-113/90/101 ...-PeCB	30.40	C	0.9999	1.0007	+1.5	2.02E+06	0.62	0.97	76.4	1.65E+03	0.644
PCB-83 22'33'5-PeCB	30.80	J	1.0144	1.0140	-0.7	1.16E+05	0.55	0.73	5.83	1.65E+03	0.86
PCB-99 22'44'5-PeCB	30.91		1.0175	1.0175	0	1.21E+06	0.62	0.91	49.3	1.65E+03	0.692
PCB-112 233'56-PeCB	NotFnd		1.0208	-		0.00E+00		1.17	ND	1.65E+03	0.534
PCB-108/119/86/97/125...-PeCB	31.38	C	1.0321	1.0331	+1.9	1.74E+06	0.61	0.99	64.6	1.65E+03	0.633
PCB-117 234'56-PeCB	NotFnd		1.0496	-		0.00E+00		1.08	ND	1.65E+03	0.581
PCB-116/85 23456/22'344'-PeCB	31.96	C	1.0527	1.0520	-1.3	5.88E+05	0.64	0.99	21.8	1.65E+03	0.632
PCB-110 233'4'6-PeCB	32.10		1.0566	1.0567	+0.2	3.13E+06	0.64	1.13	102	1.65E+03	0.556
PCB-115 2344'6-PeCB	NotFnd		1.0594	-		0.00E+00		1.18	ND	1.65E+03	0.531
PCB-82 22'33'4-PeCB	32.38		1.0659	1.0659	0	3.28E+05	0.63	0.69	17.4	1.65E+03	0.903
PCB-111 233'55'-PeCB	NotFnd		1.0761	-		0.00E+00		1.23	ND	1.65E+03	0.512
PCB-120 23'455'-PeCB	NotFnd		1.0892	-		0.00E+00		1.23	ND	1.65E+03	0.508
PCB-107/124 ...-PeCB	NotFnd	C	0.9915	-		0.00E+00		1.11	ND	1.65E+03	0.564
PCB-109 233'46-PeCB	34.27	J	0.9975	0.9977	+0.4	2.10E+05	0.63	1.28	6.04	1.65E+03	0.491
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.11	ND	1.65E+03	0.565
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.01	ND	1.65E+03	0.618
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.11	ND	1.65E+03	0.543
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.27E+03	0.401
PCB-152 22'3566'-HxCB	NotFnd		1.0062	-		0.00E+00		1.08	ND	1.27E+03	0.469
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.11	ND	1.27E+03	0.454
PCB-136 22'33'66'-HxCB	30.84	J B EMPC	1.0210	1.0209	-0.2	1.19E+05	1.54	1.02	4.72	1.27E+03	0.498
PCB-145 22'3466'-HxCB	NotFnd		1.0299	-		0.00E+00		1.04	ND	1.27E+03	0.485
PCB-148 22'34'56'-HxCB	NotFnd		1.0719	-		0.00E+00		1.10	ND	1.27E+03	0.619
PCB-151/135 ...-HxCB	32.90	J B C	1.0891	1.0891	0	2.13E+05	1.08	1.05	10.2	1.27E+03	0.645
PCB-154 22'44'56'-HxCB	NotFnd		1.0960	-		0.00E+00		1.24	ND	1.27E+03	0.547
PCB-144 22'345'6-HxCB	NotFnd		1.1048	-		0.00E+00		1.09	ND	1.27E+03	0.626
PCB-147/149 ...-HxCB	33.67	B C	1.1148	1.1146	-0.4	5.21E+05	1.28	1.09	24.3	1.27E+03	0.624
PCB-134 22'33'56-HxCB	33.86	J	1.1205	1.1208	+0.6	3.86E+04	1.38	0.79	2.49	1.27E+03	0.865
PCB-143 22'3456'-HxCB	NotFnd		1.1231	-		0.00E+00		1.08	ND	1.27E+03	0.628
PCB-139/140 ...-HxCB	34.19	J EMPC C	1.1319	1.1318	-0.2	2.05E+04	1.48	1.11	0.938	1.27E+03	0.613
PCB-131 22'33'46-HxCB	NotFnd		1.1377	-		0.00E+00		0.93	ND	1.27E+03	0.728
PCB-142 22'3456-HxCB	NotFnd		1.1425	-		0.00E+00		0.92	ND	1.27E+03	0.742
PCB-132 22'33'46'-HxCB	34.75	B	1.1502	1.1503	+0.2	2.33E+05	1.29	0.96	12.4	1.27E+03	0.711
PCB-133 22'33'55'-HxCB	NotFnd		1.1636	-		0.00E+00		1.02	ND	1.27E+03	0.665
PCB-165 233'55'6-HxCB	NotFnd		0.9523	-		0.00E+00		1.32	ND	1.27E+03	0.516
PCB-146 22'34'55'-HxCB	35.70	J B	0.9580	0.9579	-0.2	1.07E+05	1.18	1.14	4.76	1.27E+03	0.596
PCB-161 233'45'6-HxCB	NotFnd		0.9612	-		0.00E+00		1.41	ND	1.27E+03	0.482
PCB-153/168 ...-HxCB	36.23	B C	0.9727	0.9721	-1.3	7.08E+05	1.29	1.40	25.7	1.27E+03	0.486

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.40	J	0.9766	0.9766	0	1.13E+05	1.41	1.02	5.66	1.27E+03	0.669
PCB-130 22'33'45'-HxCB	36.74	J	0.9859	0.9857	-0.4	4.56E+04	1.41	0.90	2.57	1.27E+03	0.756
PCB-137 22'344'5-HxCB	36.95	J	0.9912	0.9913	+0.2	6.14E+04	1.17	1.14	2.74	1.27E+03	0.598
PCB-164 233'4'5'6-HxCB	37.04	J	0.9934	0.9937	+0.7	5.80E+04	1.14	1.38	2.13	1.27E+03	0.492
PCB-163/138/129 ...-HxCB	37.30	B C	1.0011	1.0007	-0.9	8.05E+05	1.27	1.13	36.2	1.27E+03	0.602
PCB-160 233'456-HxCB	NotFnd		1.0049	-		0.00E+00		1.29	ND	1.27E+03	0.525
PCB-158 233'44'6-HxCB	37.63	J	1.0097	1.0097	0	1.15E+05	1.42	1.52	3.85	1.27E+03	0.448
PCB-128/166 ...-HxCB	38.38	J EMPC C	0.9639	0.9641	+0.5	1.12E+05	1.48	0.88	4.86	1.43E+03	0.629
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.07	ND	1.43E+03	0.519
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.09	ND	1.43E+03	0.513
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.16E+03	0.487
PCB-179 22'33'566'-HpCB	35.39	J	1.0087	1.0087	0	5.71E+04	1.05	1.07	2.8	1.16E+03	0.578
PCB-184 22'344'66'-HpCB	35.85	J EMPC	1.0217	1.0219	+0.4	1.93E+04	1.44	1.03	0.981	1.16E+03	0.601
PCB-176 22'33'466'-HpCB	NotFnd		1.0302	-		0.00E+00		1.14	ND	1.16E+03	0.544
PCB-186 22'34566'-HpCB	NotFnd		1.0415	-		0.00E+00		1.05	ND	1.16E+03	0.586
PCB-178 22'33'55'6-HpCB	37.67	J	1.0736	1.0738	+0.5	1.64E+04	1.15	0.75	1.14	1.16E+03	0.821
PCB-175 22'33'45'6-HpCB	NotFnd		1.0891	-		0.00E+00		1.08	ND	1.69E+03	0.928
PCB-187 22'34'55'6-HpCB	38.44	J	1.0956	1.0957	+0.2	1.57E+05	0.99	1.16	7.73	1.69E+03	0.869
PCB-182 22'344'56'-HpCB	NotFnd		1.1007	-		0.00E+00		1.20	ND	1.69E+03	0.834
PCB-183 22'344'5'6-HpCB	38.96	J	1.1105	1.1106	+0.2	7.28E+04	1.07	1.24	3.36	1.69E+03	0.812
PCB-185 22'3455'6-HpCB	NotFnd		1.1129	-		0.00E+00		1.04	ND	1.69E+03	0.965
PCB-174 22'33'456'-HpCB	39.16	J	1.1160	1.1162	+0.5	9.19E+04	0.96	1.00	5.25	1.69E+03	1.01
PCB-177 22'33'45'6'-HpCB	39.54	J	1.1268	1.1269	+0.2	5.94E+04	0.97	0.93	3.63	1.69E+03	1.08
PCB-181 22'344'56-HpCB	NotFnd		1.1366	-		0.00E+00		1.08	ND	1.69E+03	0.928
PCB-171/173 ...-HpCB	40.07	J EMPC C	1.1419	1.1423	+1.0	3.53E+04	0.80	0.95	2.12	1.69E+03	1.06
PCB-172 22'33'455'-HpCB	41.41	J	0.9077	0.9076	-0.2	1.92E+04	1.04	0.98	1.12	1.69E+03	1.02
PCB-192 233'455'6-HpCB	NotFnd		0.9131	-		0.00E+00		1.30	ND	1.69E+03	0.772
PCB-180/193 ...-HpCB	41.97	J EMPC C	0.9191	0.9197	+1.5	2.51E+05	0.86	1.24	11.6	1.69E+03	0.81
PCB-191 233'44'5'6-HpCB	NotFnd		0.9264	-		0.00E+00		1.39	ND	1.69E+03	0.722
PCB-170 22'33'44'5-HpCB	43.04	J EMPC	0.9433	0.9432	-0.3	6.64E+04	1.60	1.12	4.01	1.69E+03	1.07
PCB-190 233'44'56-HpCB	43.49	J EMPC	0.9531	0.9532	+0.3	3.30E+04	1.27	1.57	1.42	1.69E+03	0.762
PCB-202 22'33'55'66'-OcCB	39.64	J	1.0005	1.0005	0	2.85E+04	0.97	1.05	1.51	1.40E+03	0.759
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.40E+03	0.717
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.05	ND	1.40E+03	0.762
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0396	-		0.00E+00		1.12	ND	1.40E+03	0.714
PCB-200 22'33'4566'-OcCB	NotFnd		1.0419	-		0.00E+00		1.06	ND	1.40E+03	0.753
PCB-198/199 ...-OcCB	43.62	J EMPC C	1.1005	1.1009	+1.0	5.43E+04	1.12	0.72	4.23	1.40E+03	1.12
PCB-196 22'33'44'56'-OcCB	44.18	J EMPC	1.1150	1.1152	+0.5	2.15E+04	1.05	0.75	1.59	1.40E+03	1.06
PCB-203 22'344'55'6-OcCB	44.35	J EMPC	1.1192	1.1195	+0.8	3.34E+04	1.10	0.77	2.41	1.40E+03	1.03
PCB-195 22'33'44'56-OcCB	45.47	J	0.9515	0.9514	-0.3	1.83E+04	0.77	0.73	1.51	1.29E+03	1.09
PCB-194 22'33'44'55'-OcCB	47.41	J	0.9921	0.9921	0	3.64E+04	0.92	0.81	2.69	1.29E+03	0.977
PCB-205 233'44'55'6-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.29E+03	0.748
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.09E+03	1.6
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0179	-		0.00E+00		1.15	ND	3.09E+03	1.57
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.09E+03	2.59

SGS ID: A6528\_11906\_PCB\_002  
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Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

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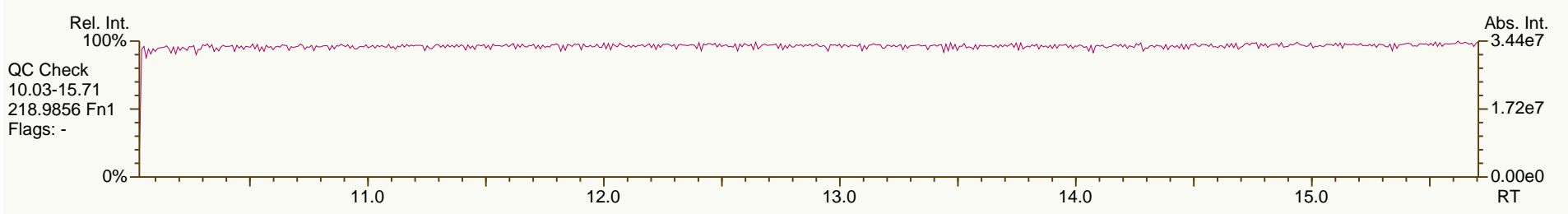
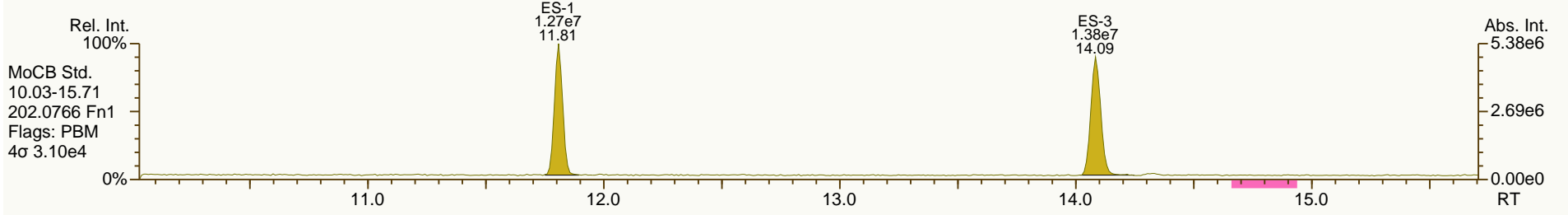
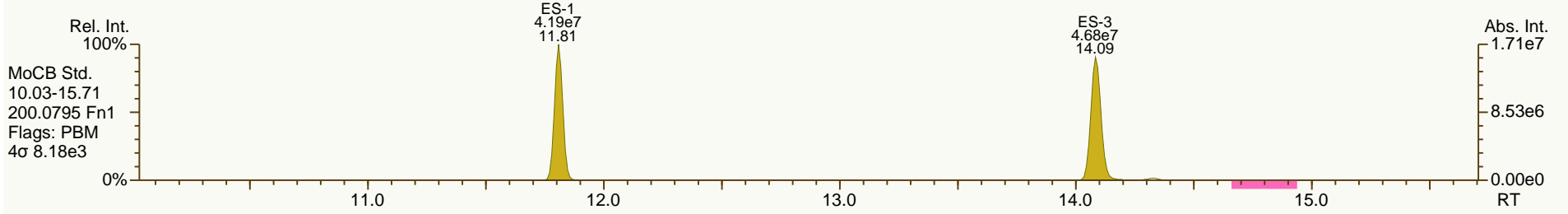
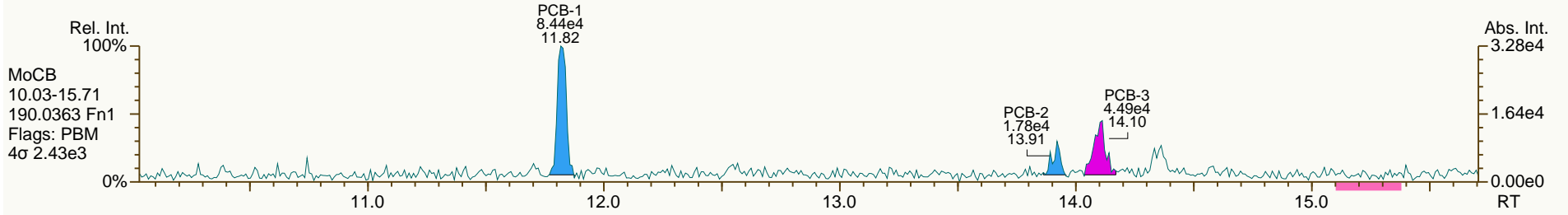
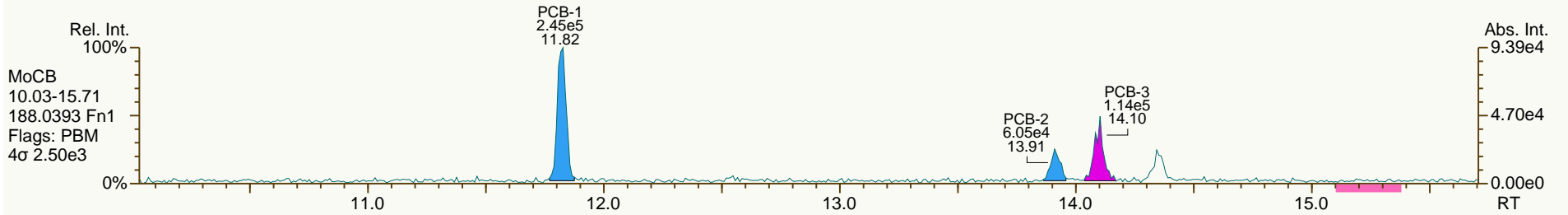




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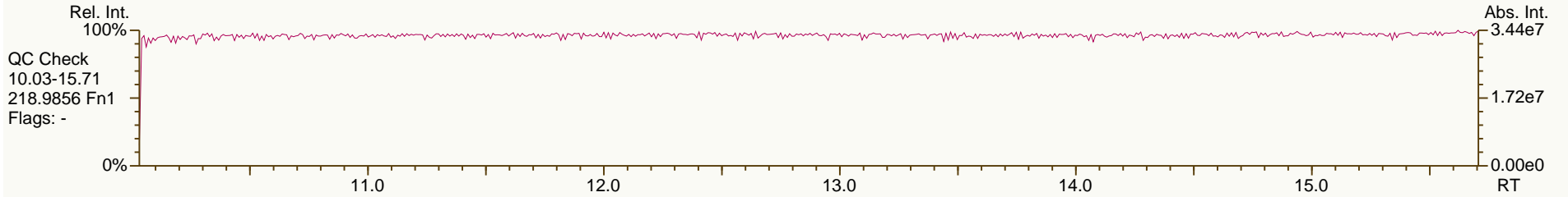
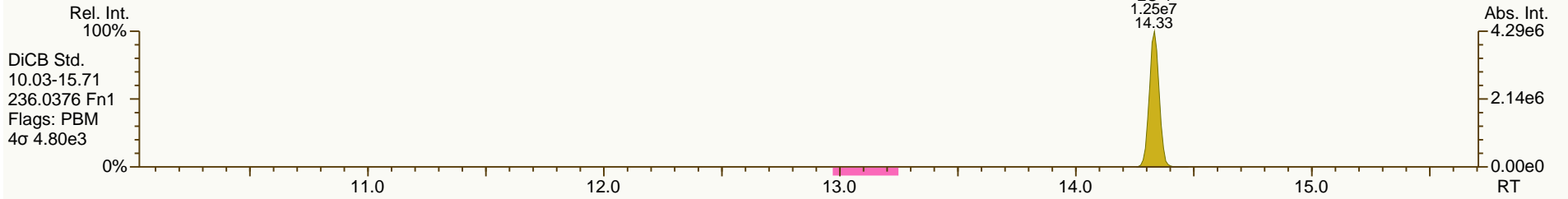
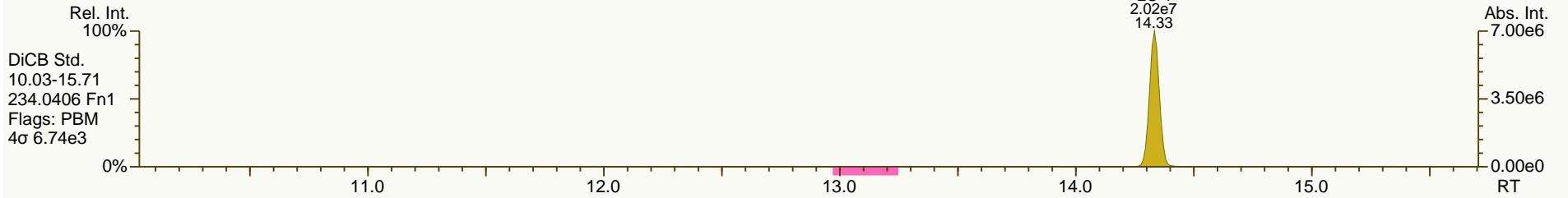
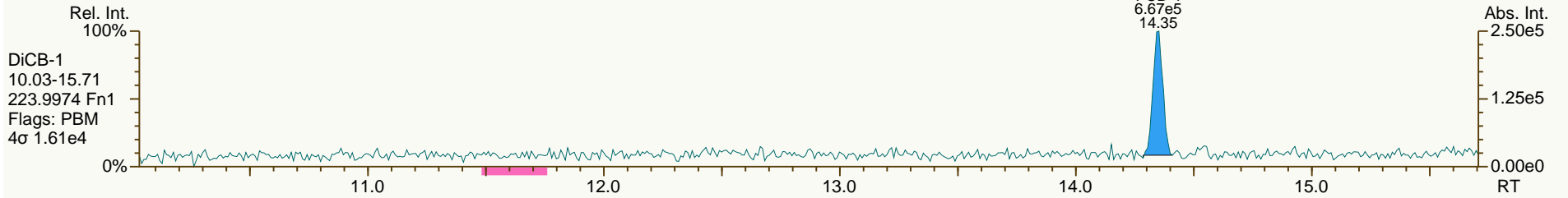
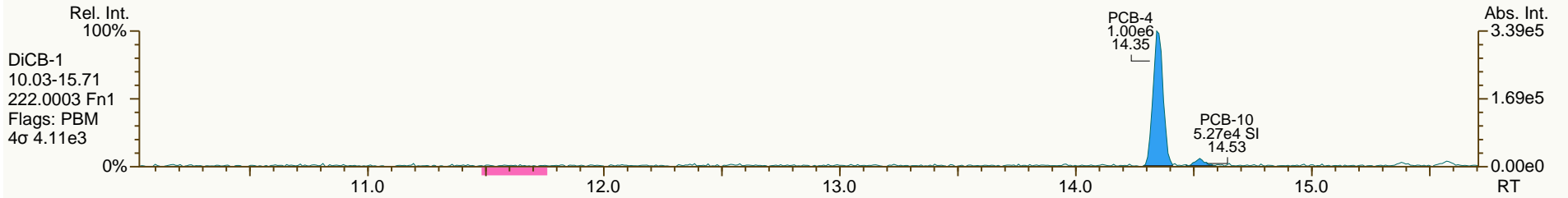
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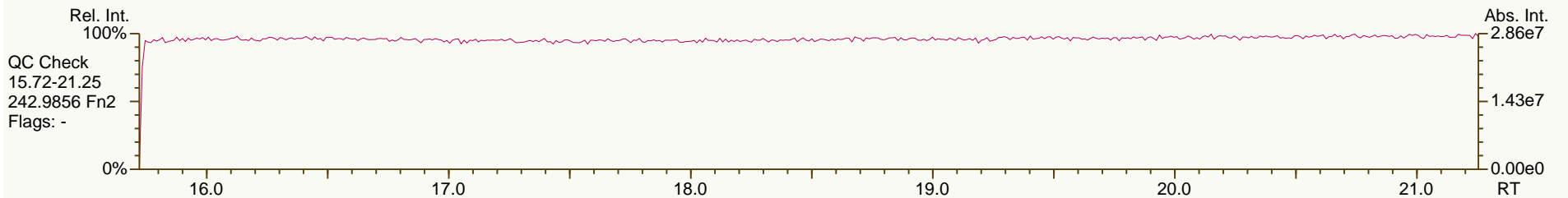
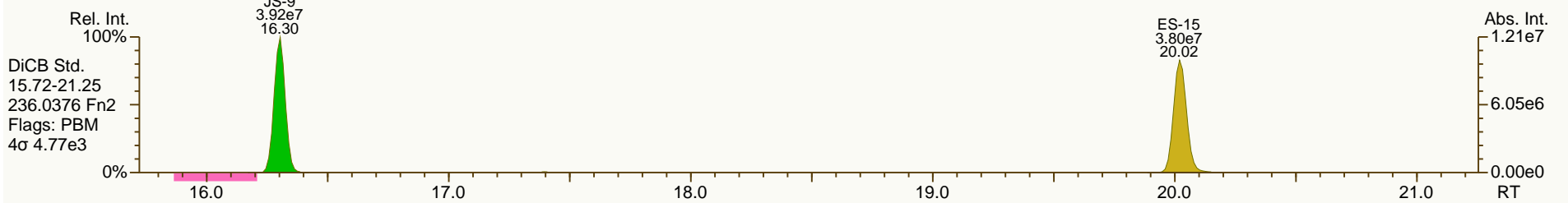
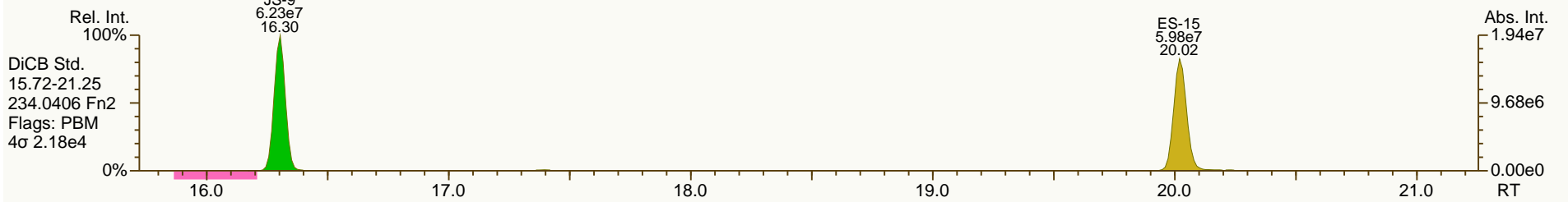
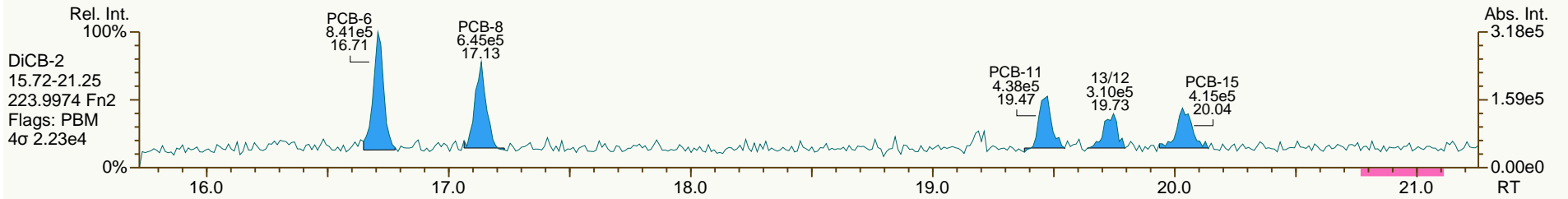
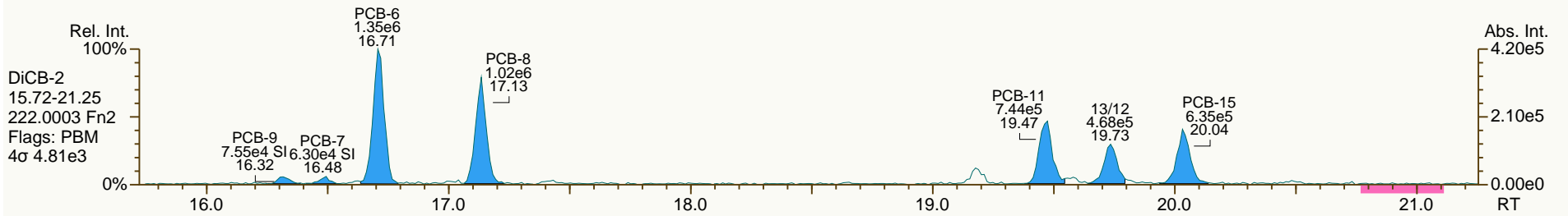
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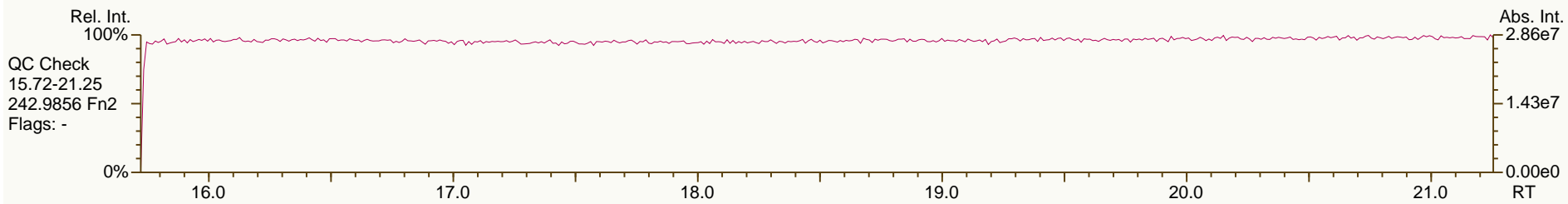
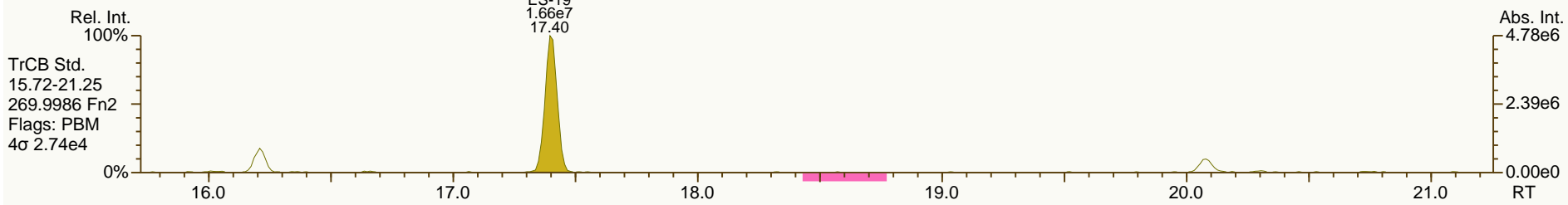
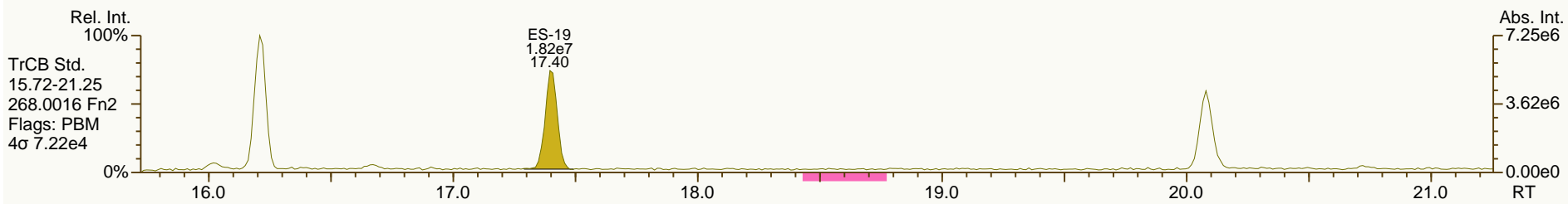
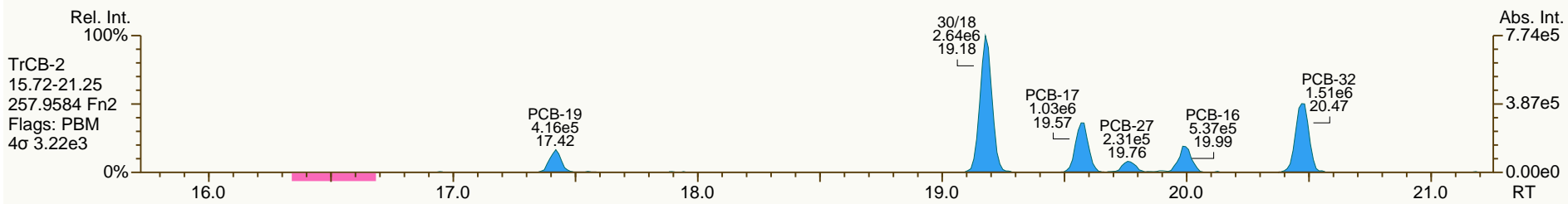
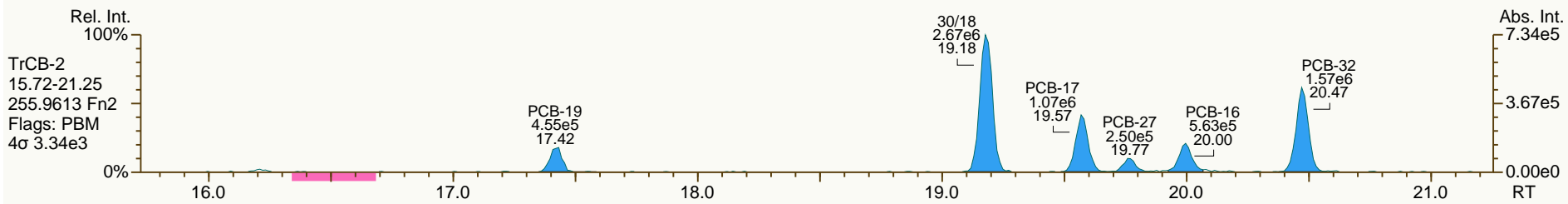
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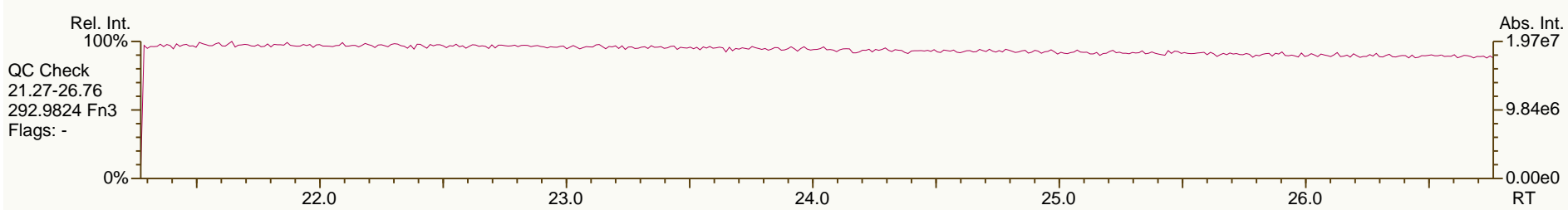
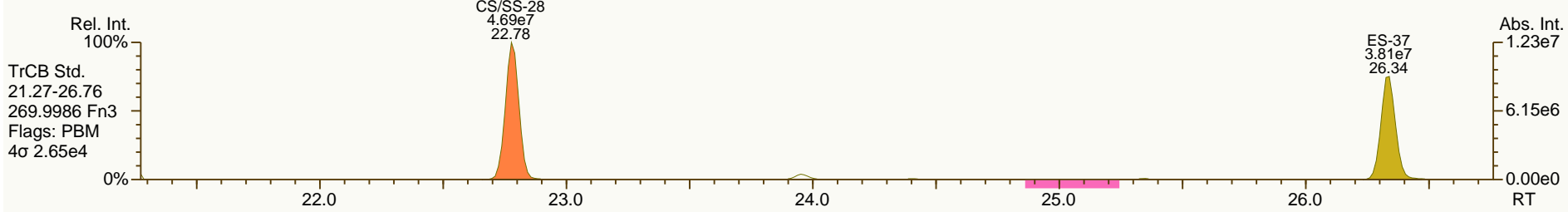
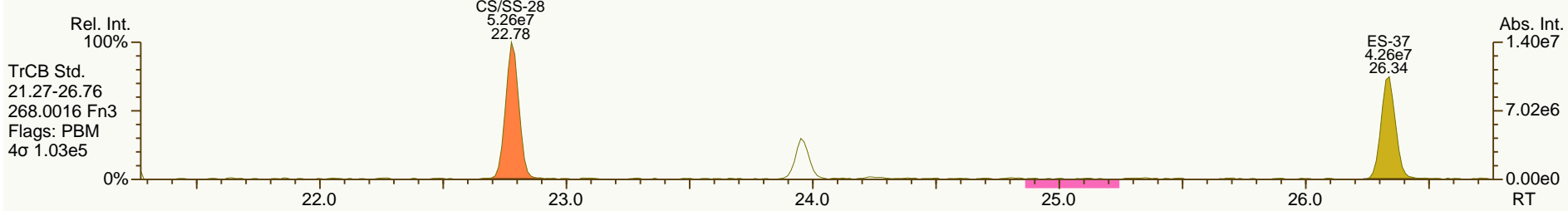
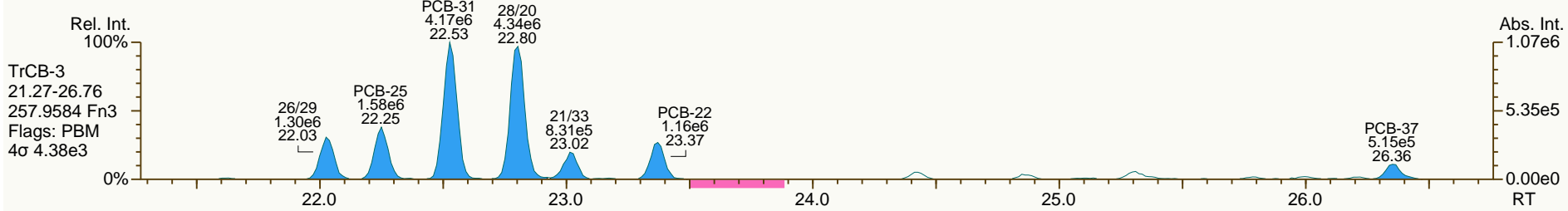
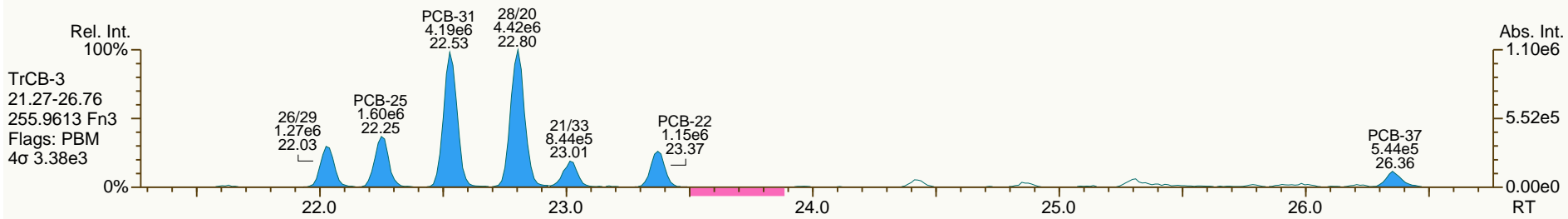
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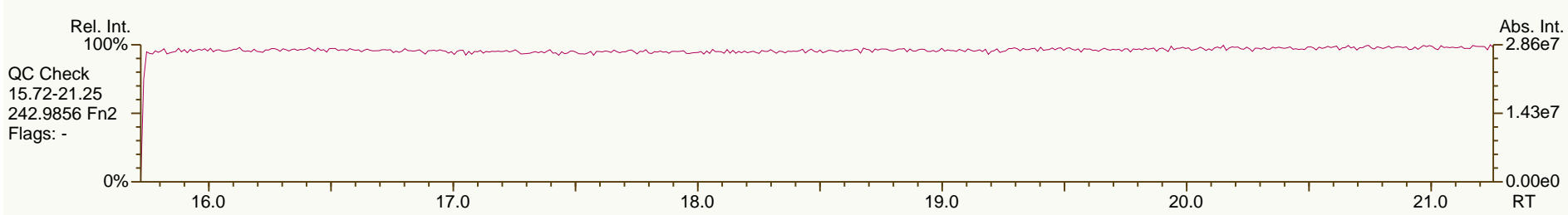
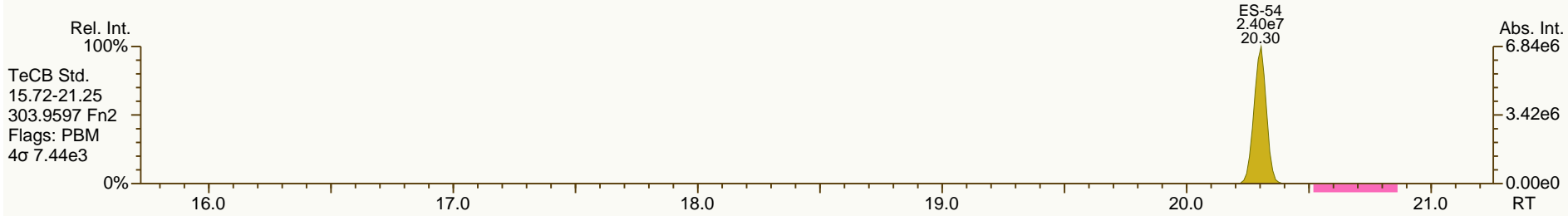
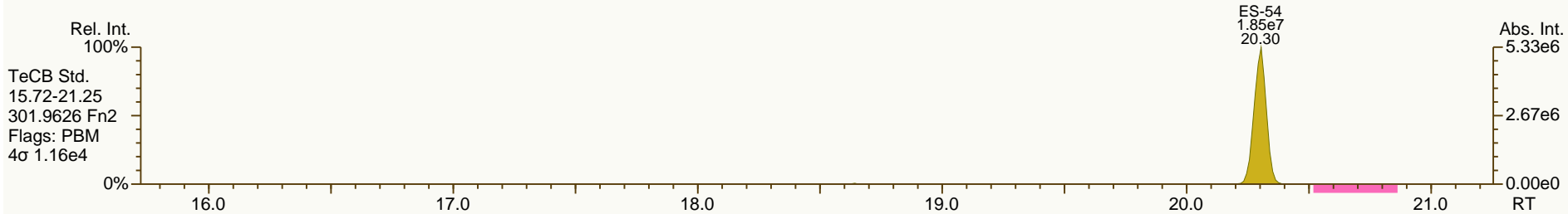
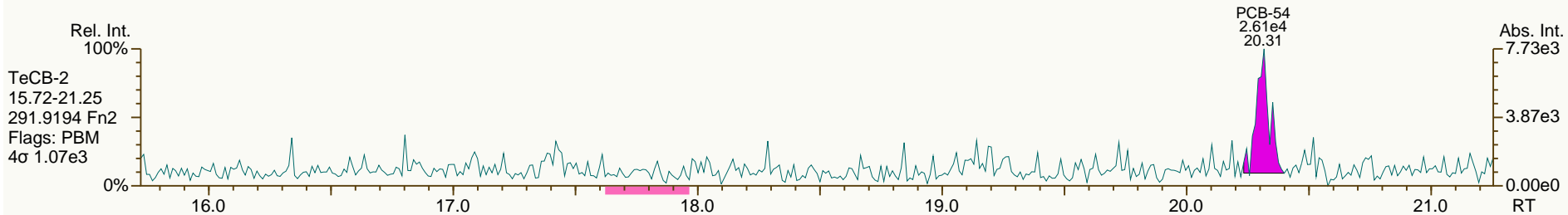
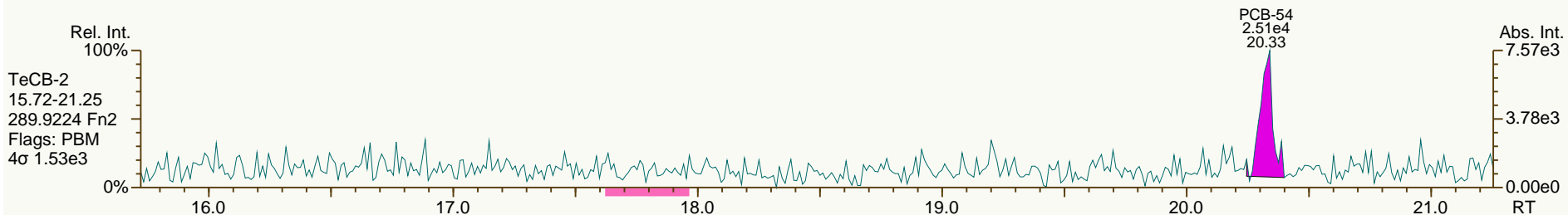
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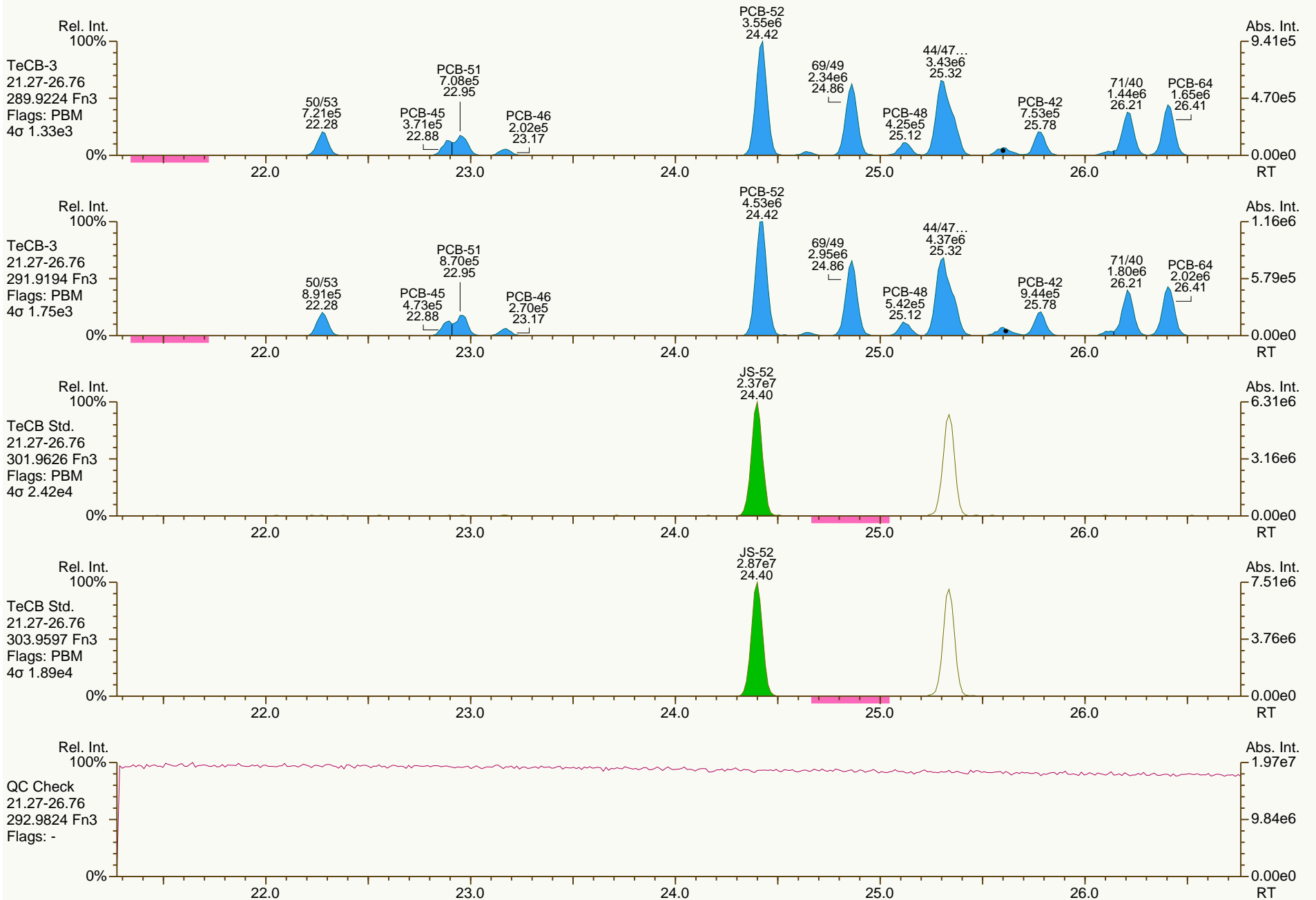
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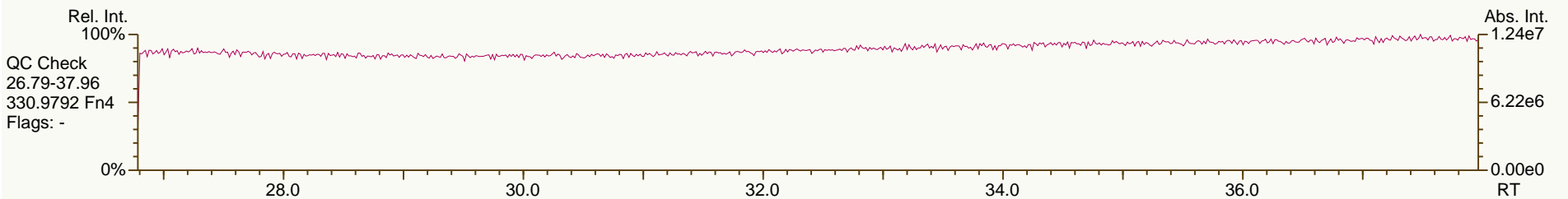
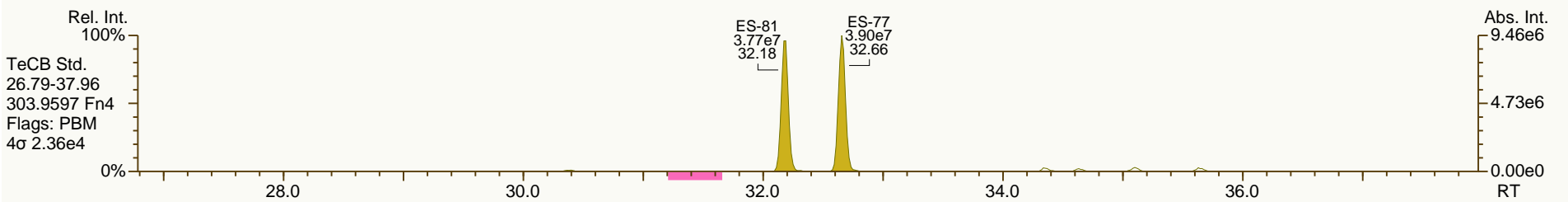
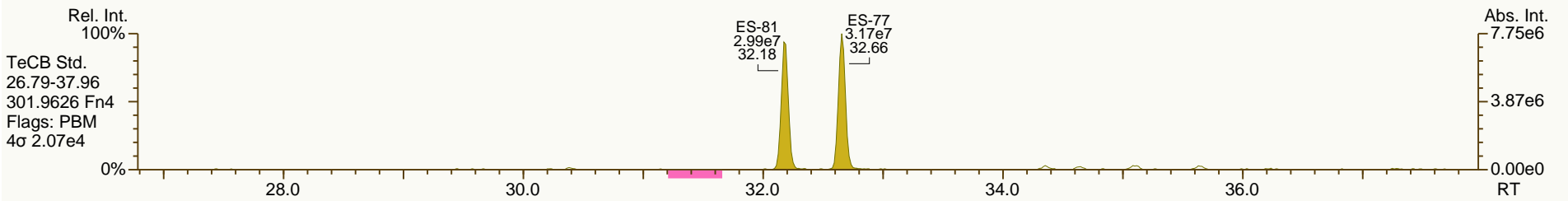
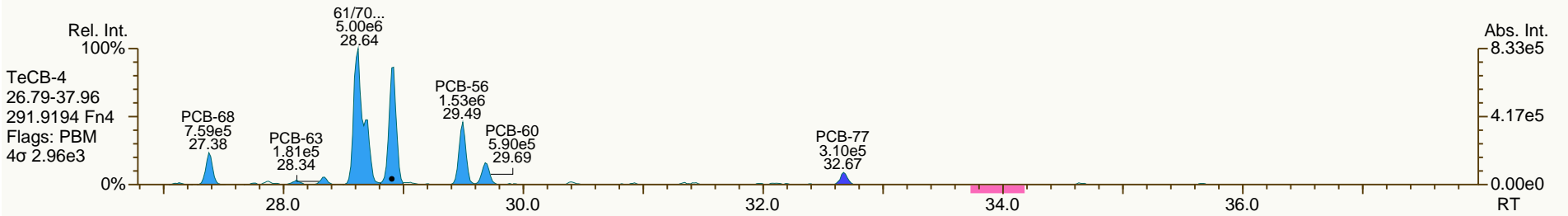
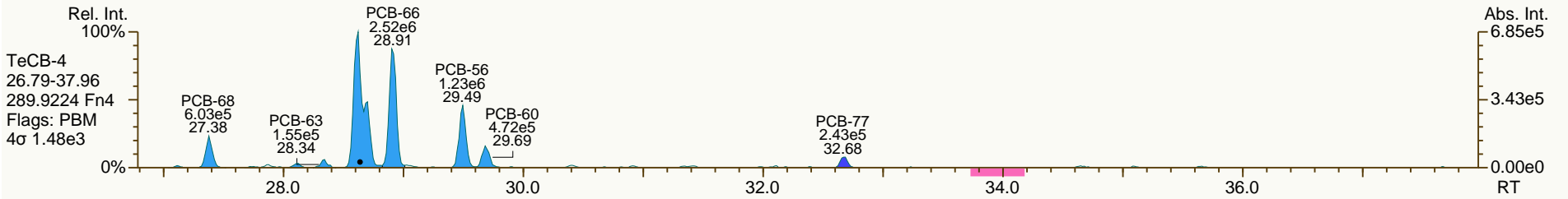
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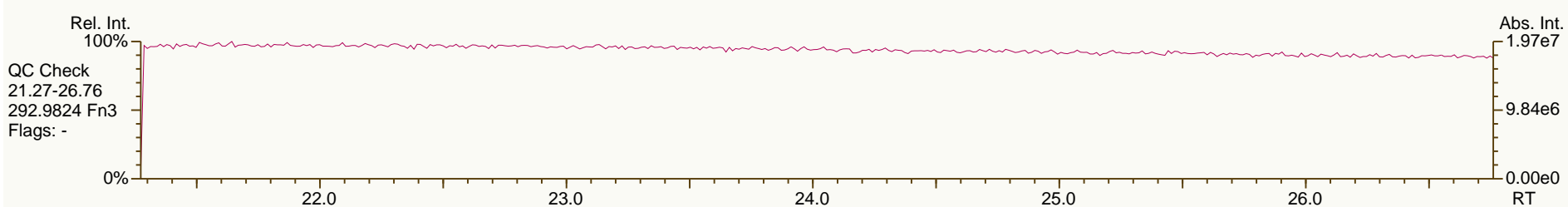
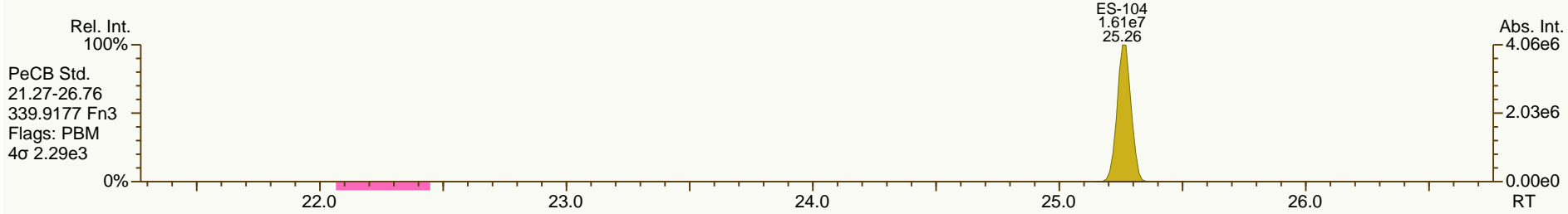
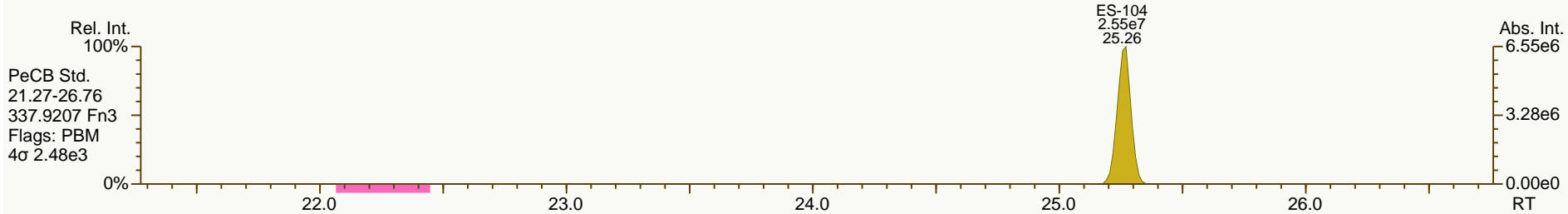
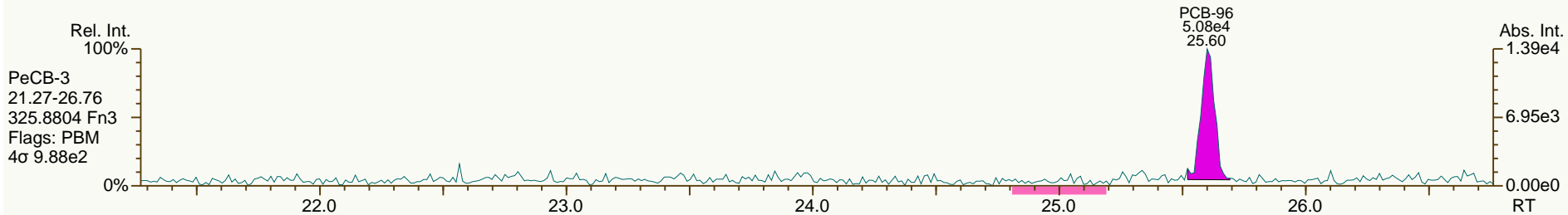
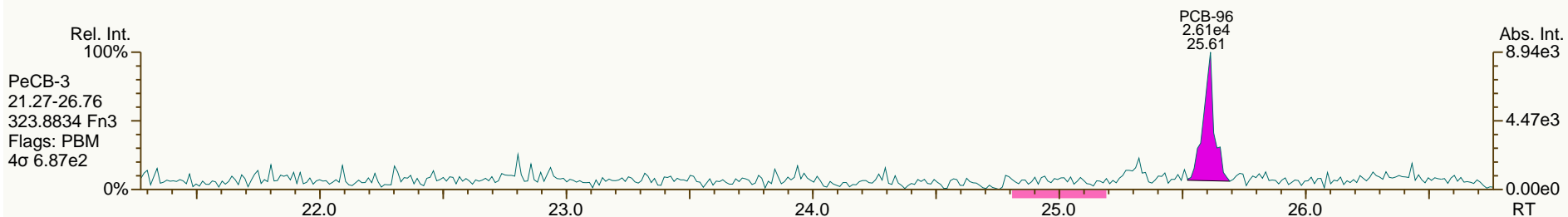




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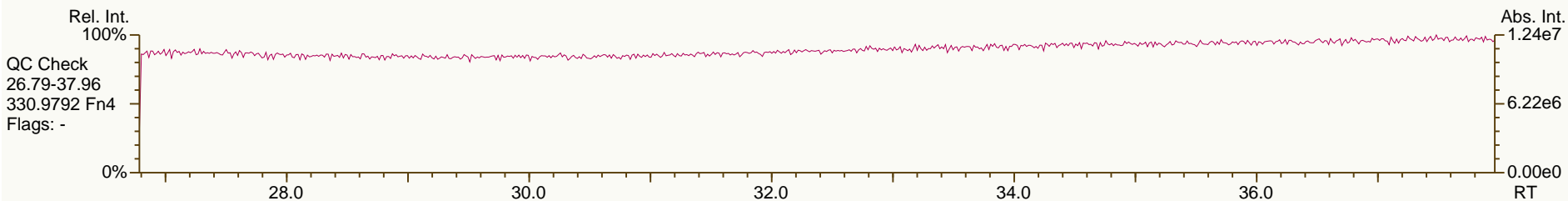
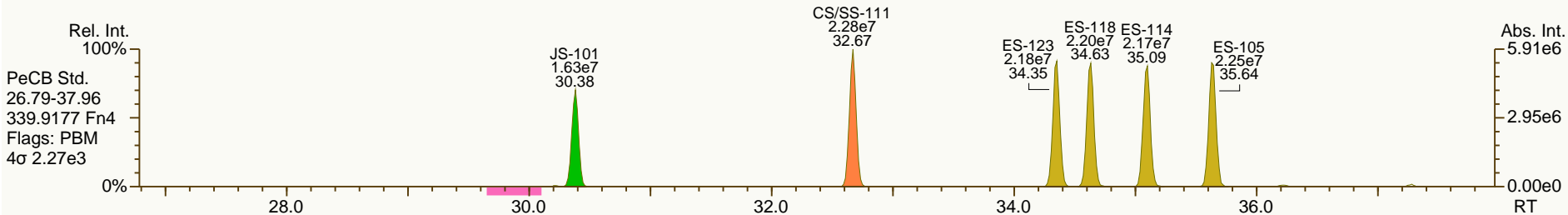
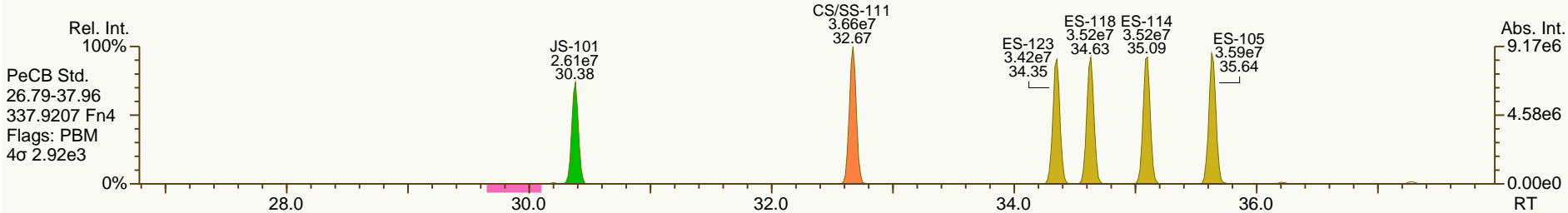
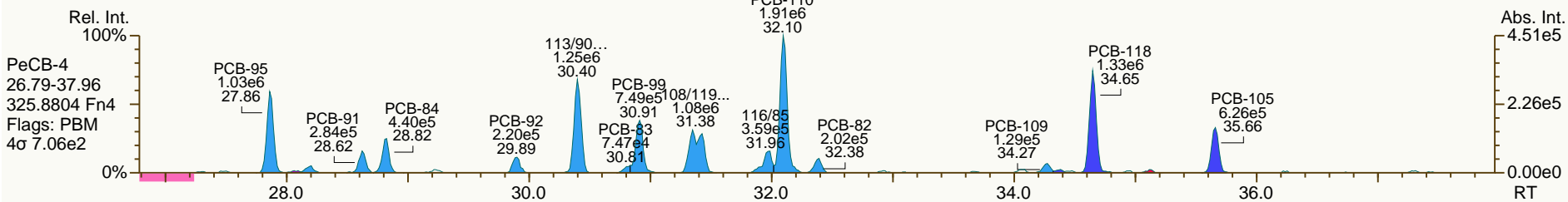
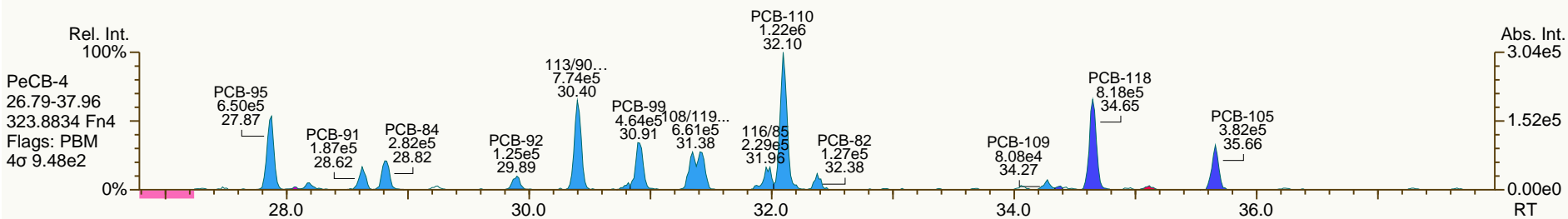
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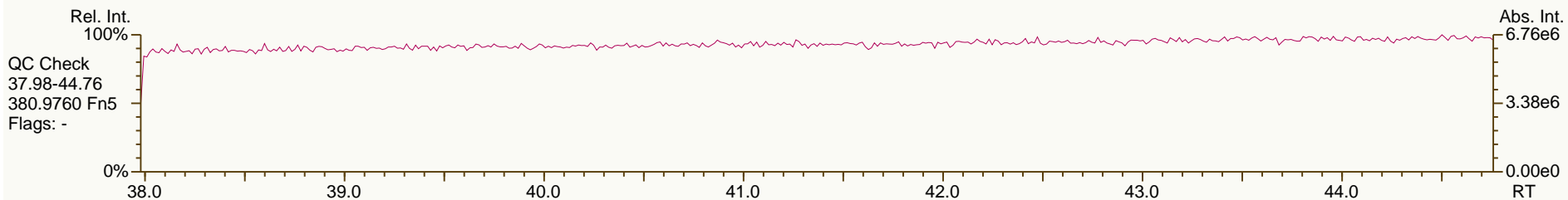
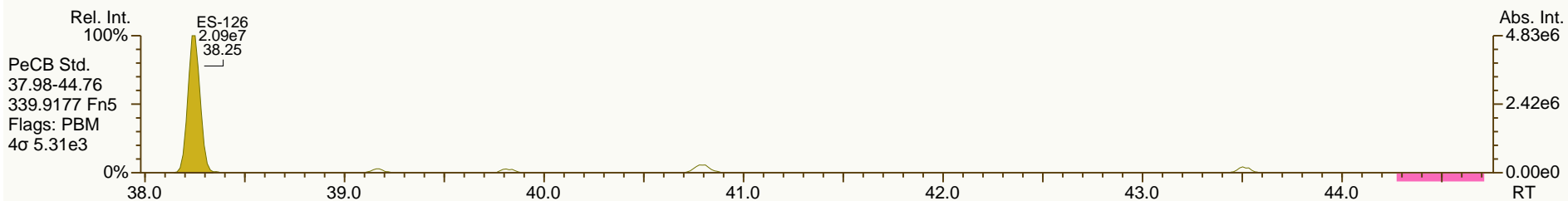
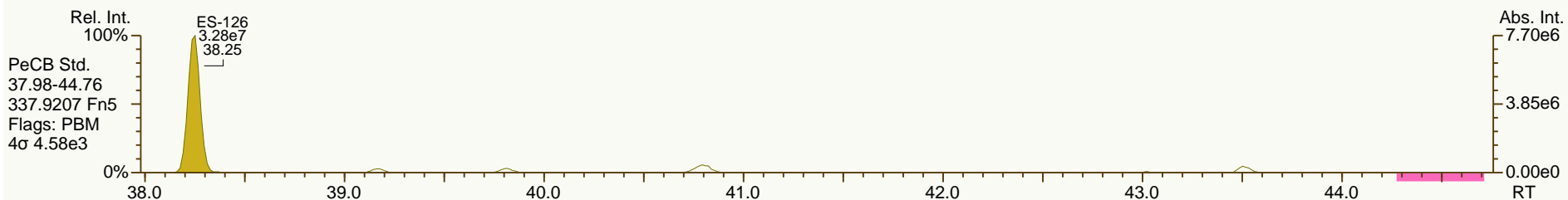
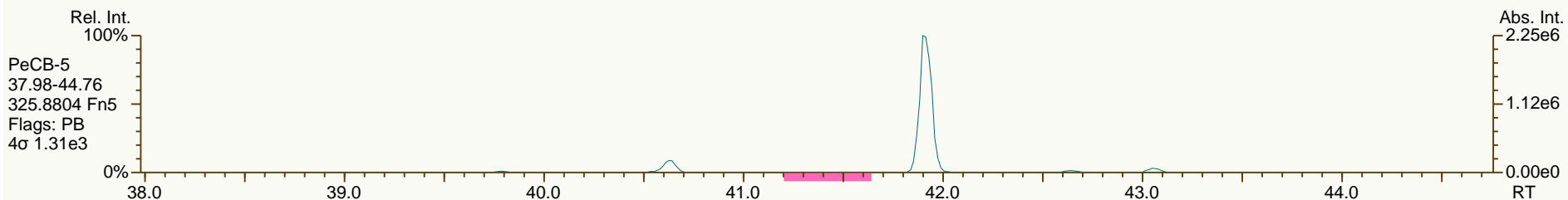
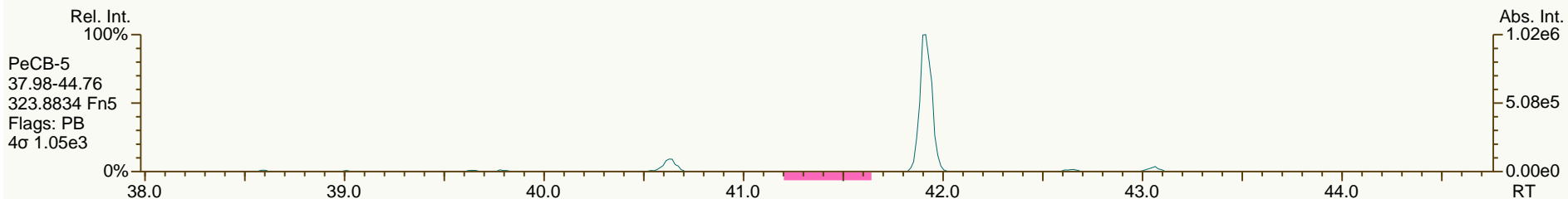
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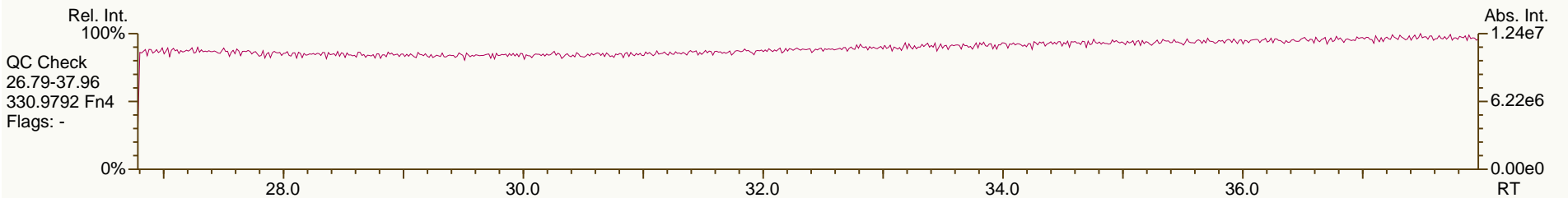
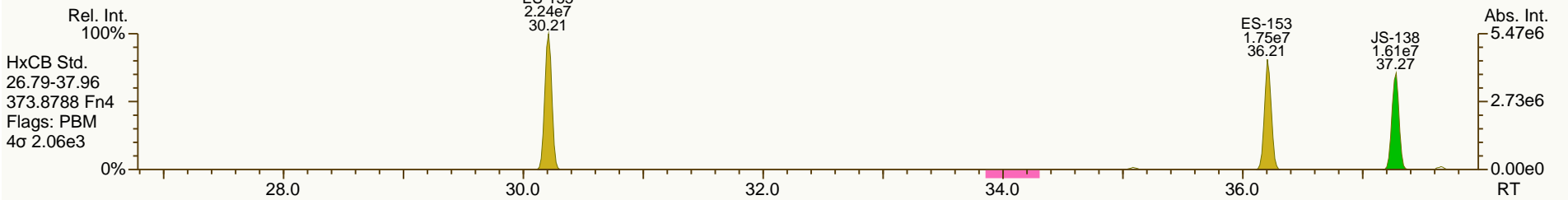
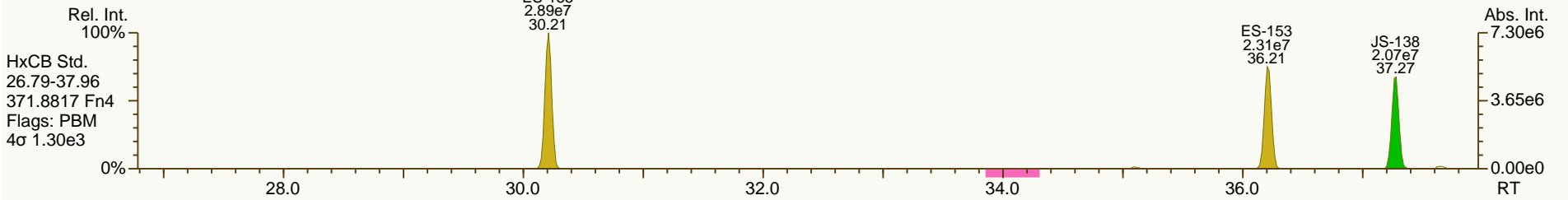
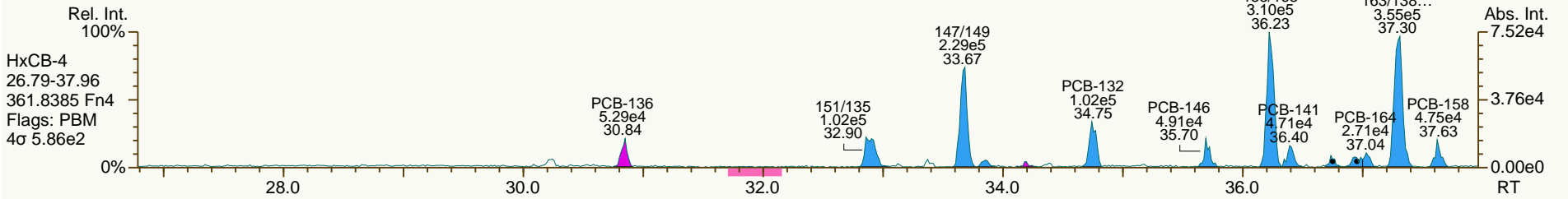
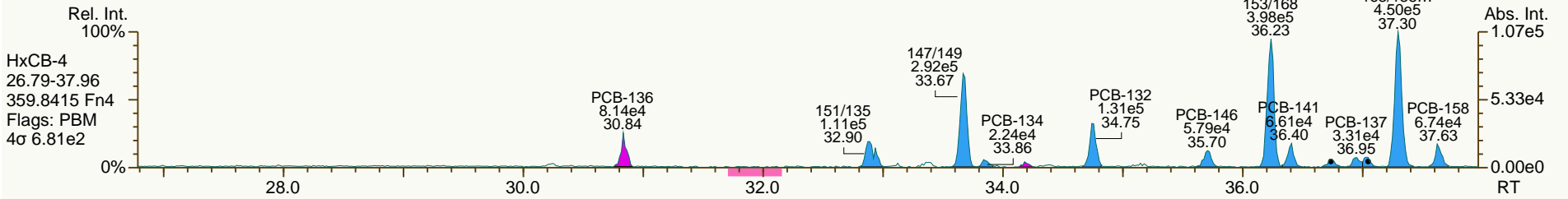
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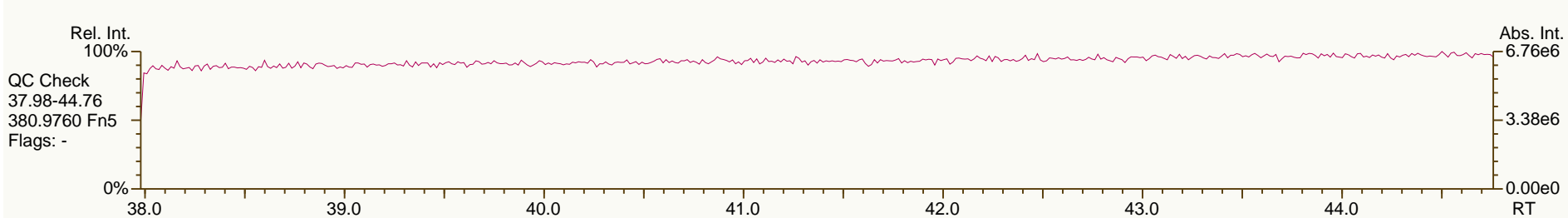
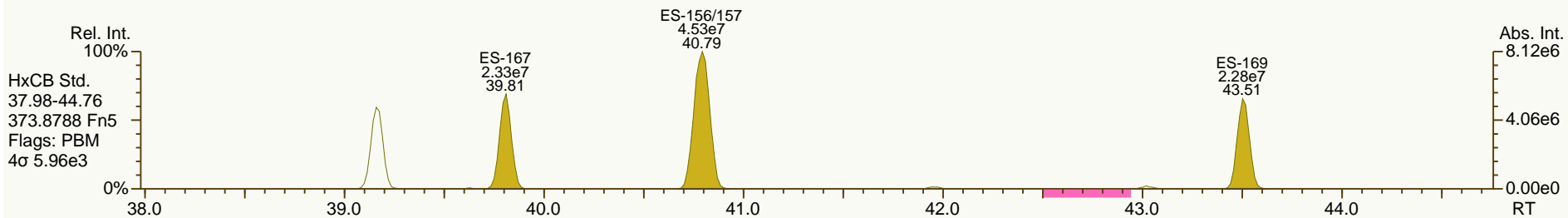
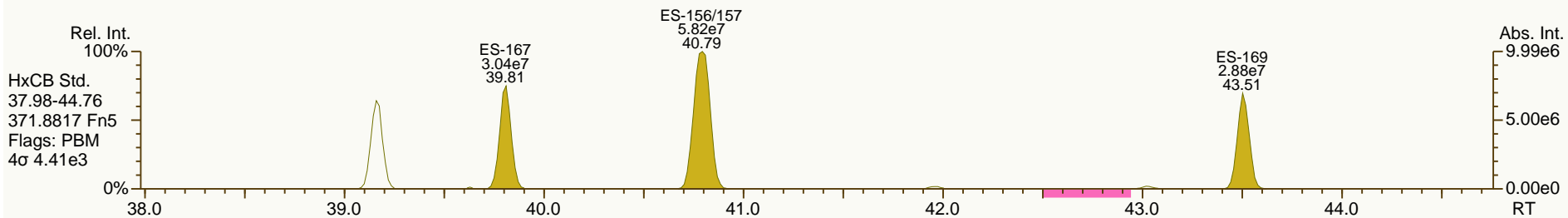
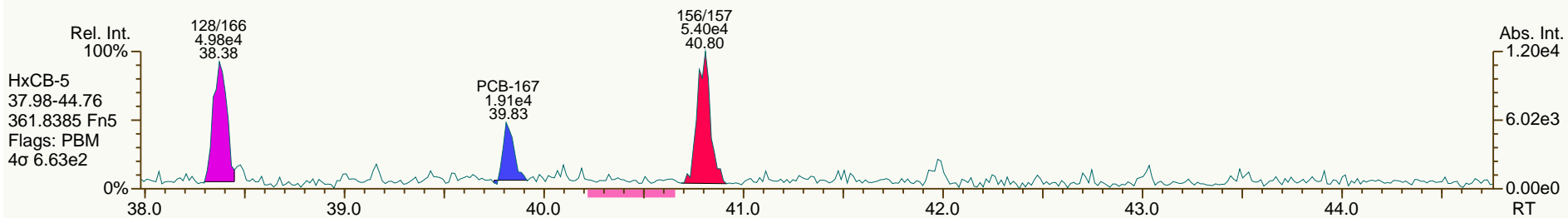
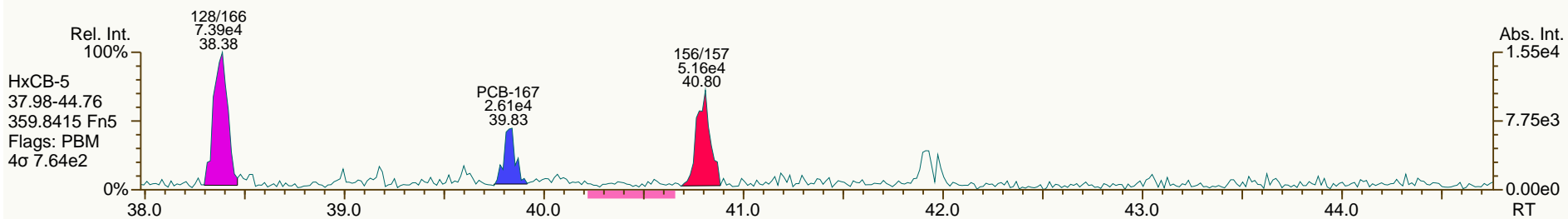
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

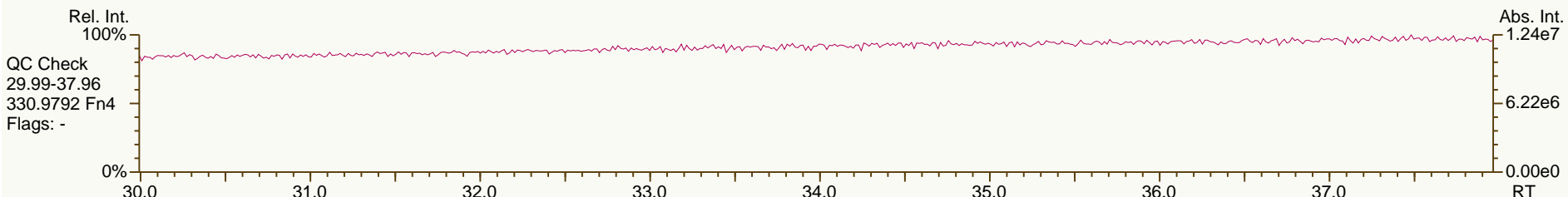
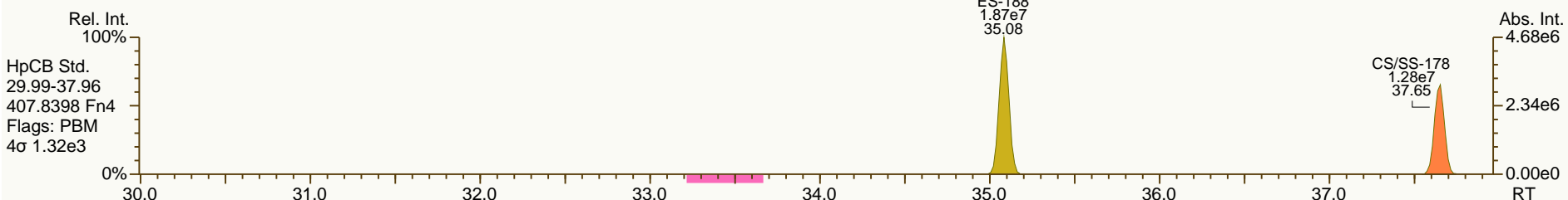
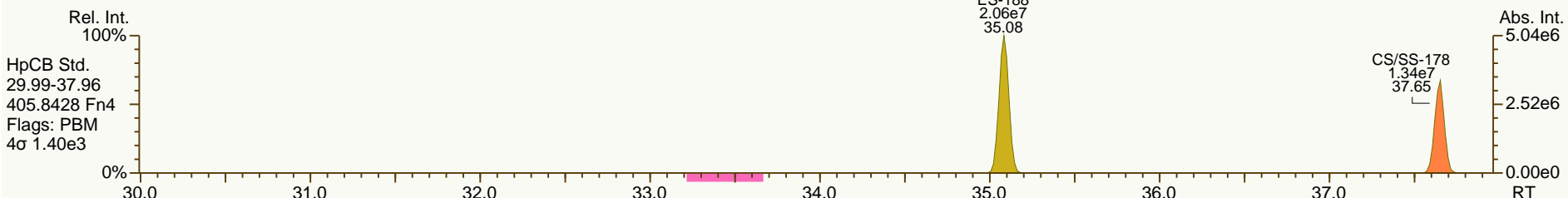
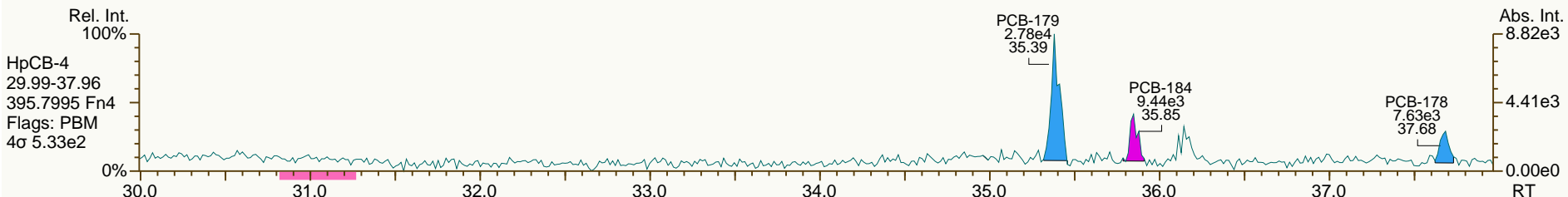
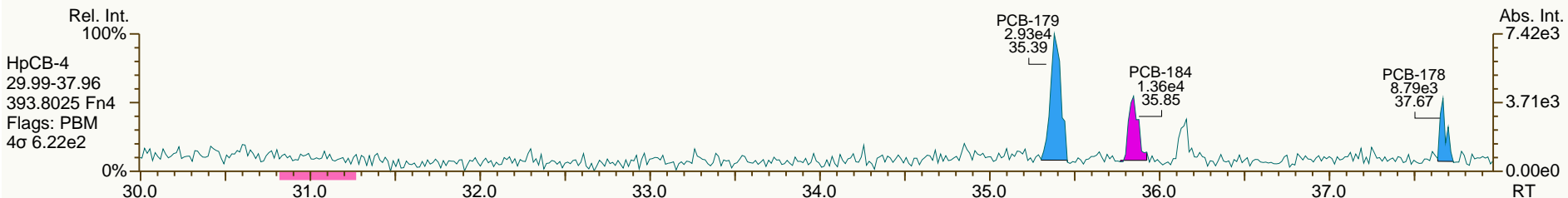
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
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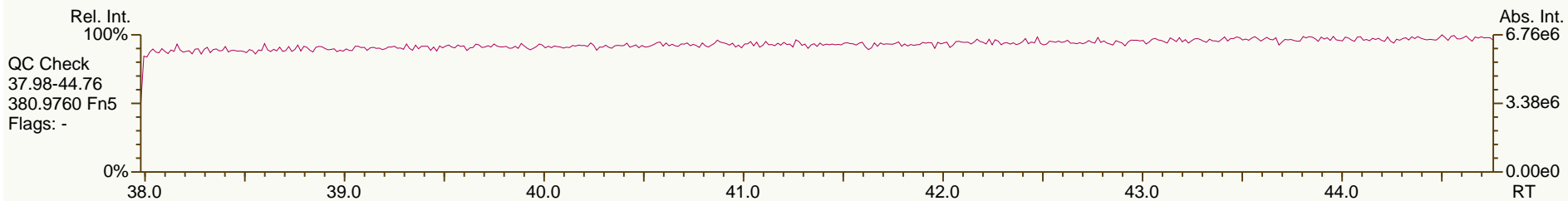
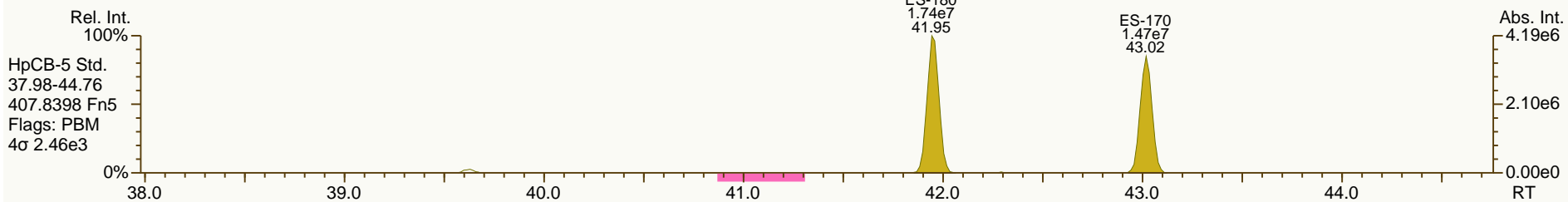
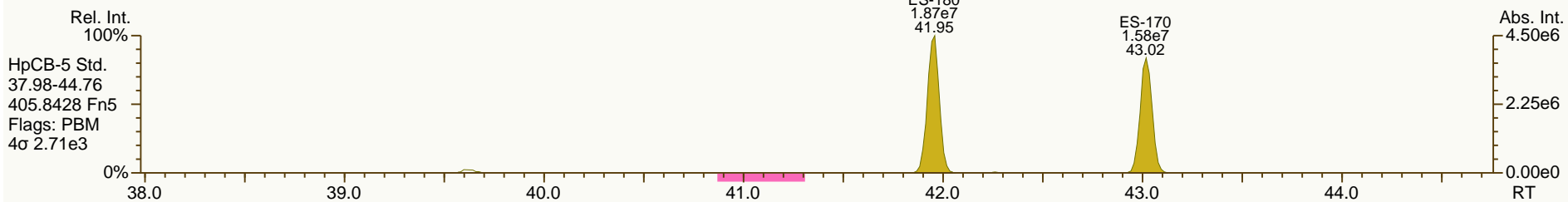
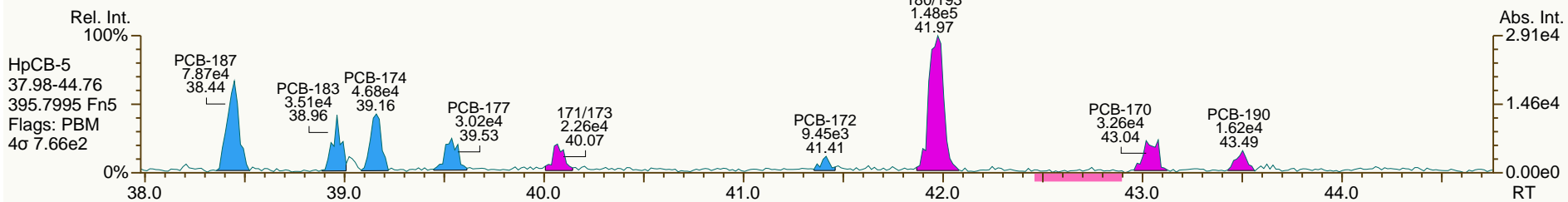
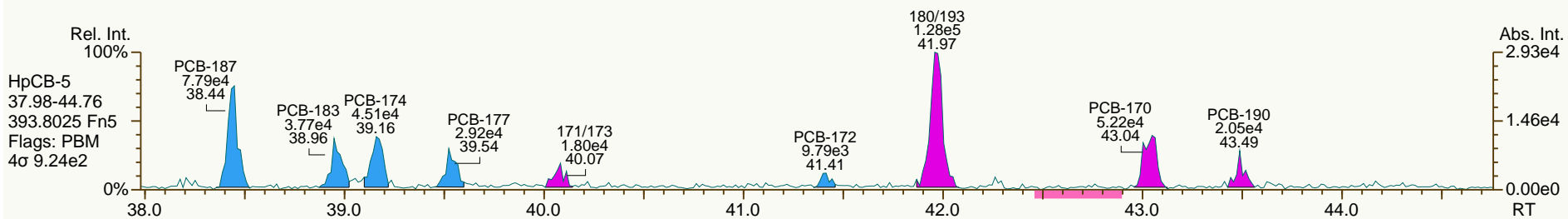
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

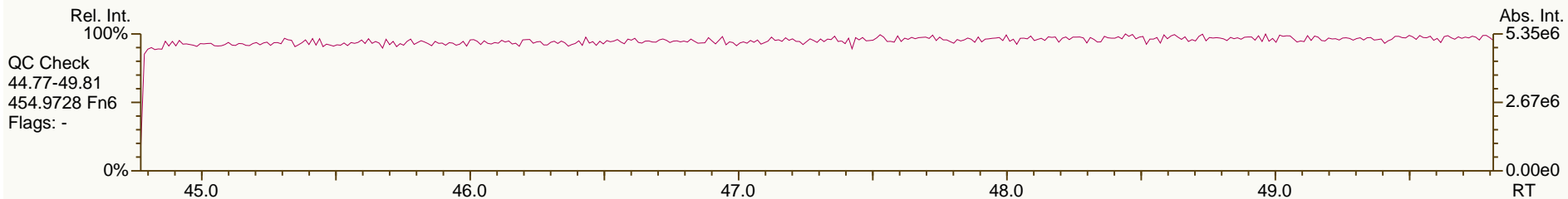
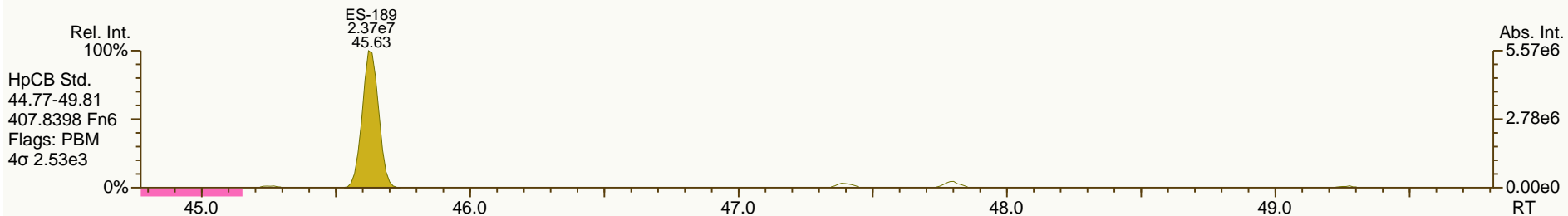
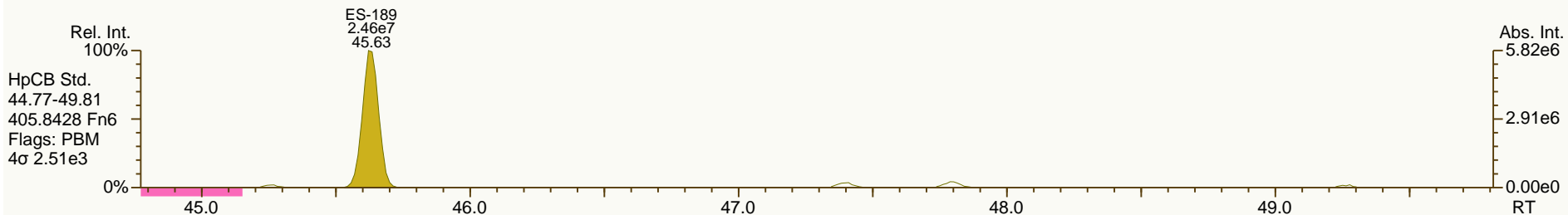
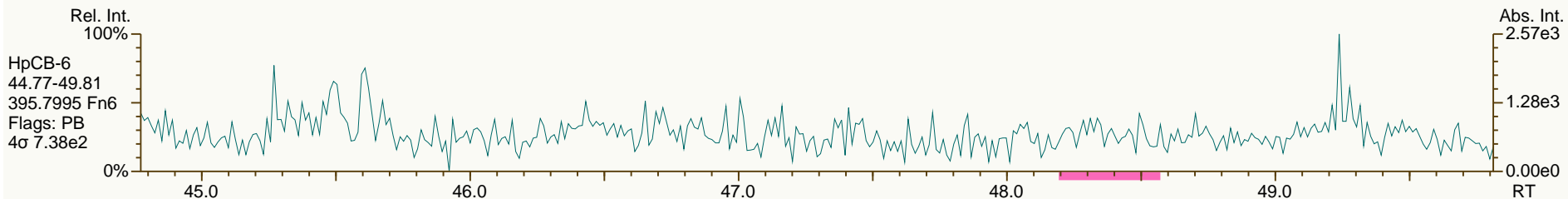
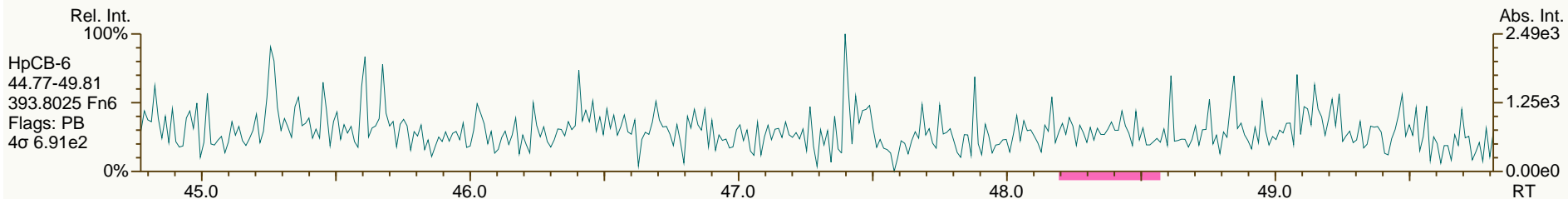
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

Acq: 02-Apr-2014 08:40:36  
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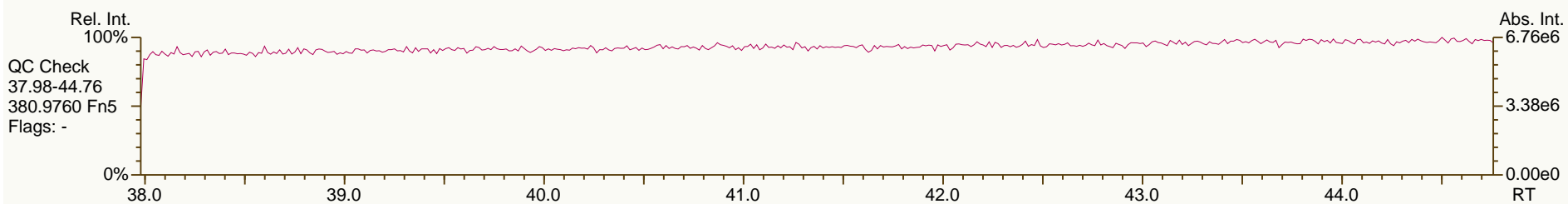
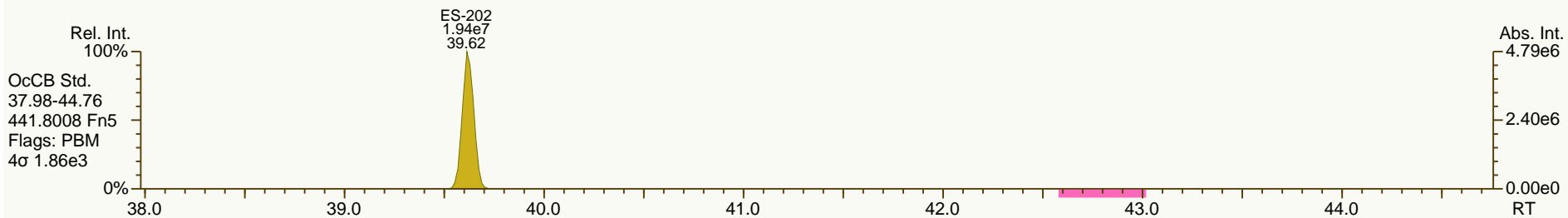
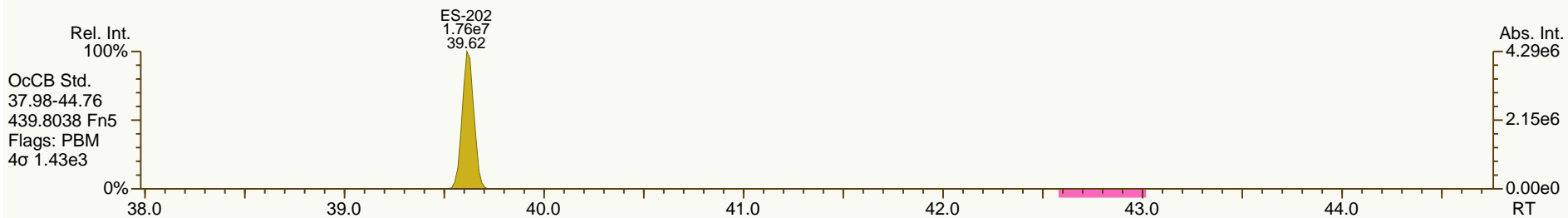
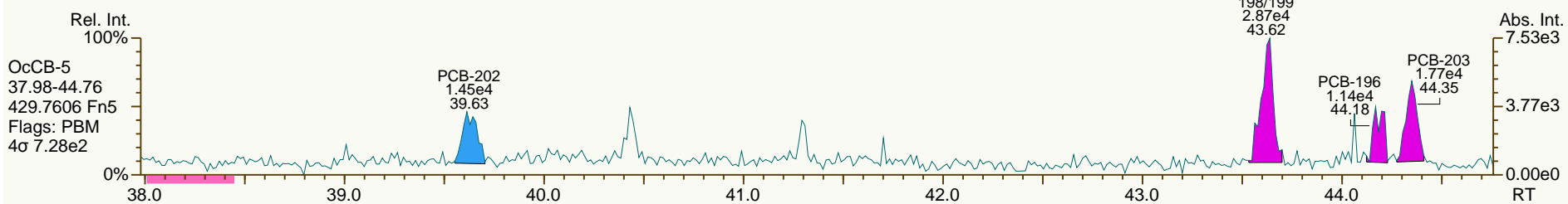
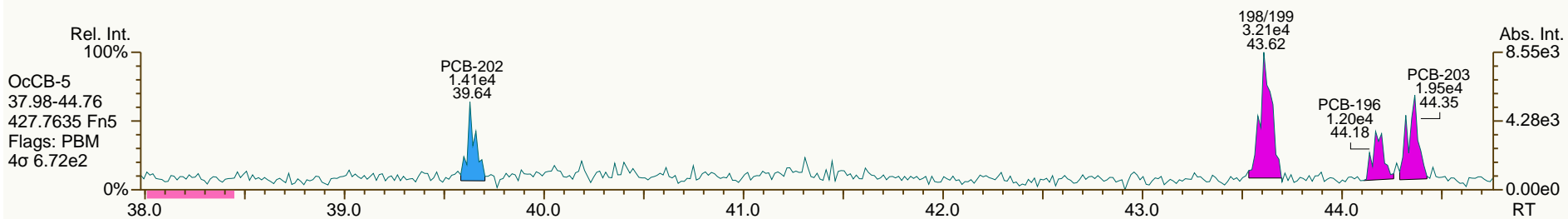




SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

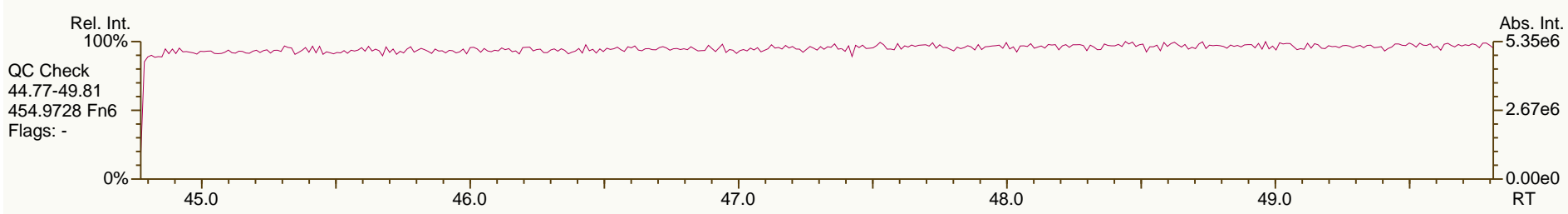
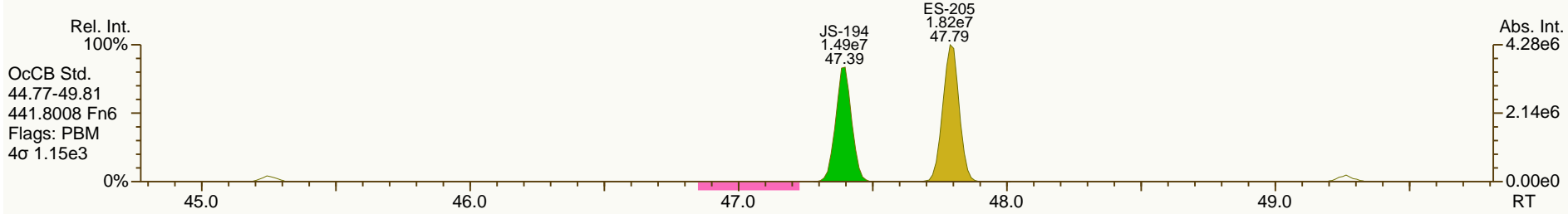
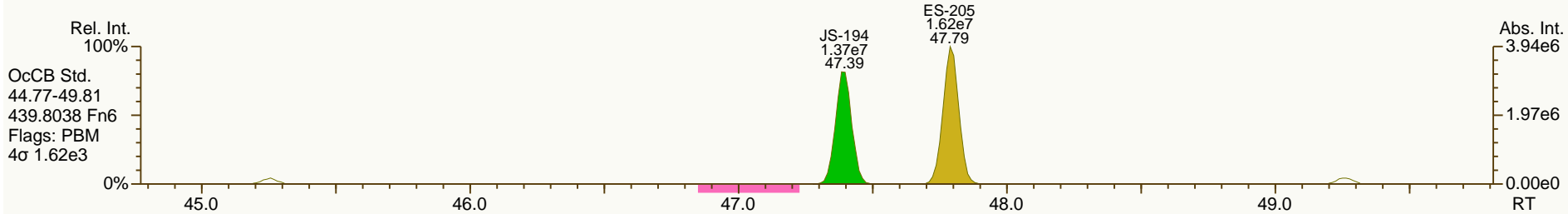
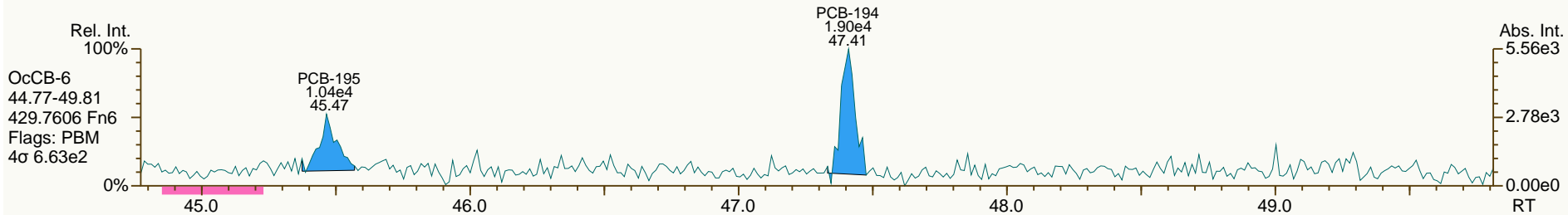
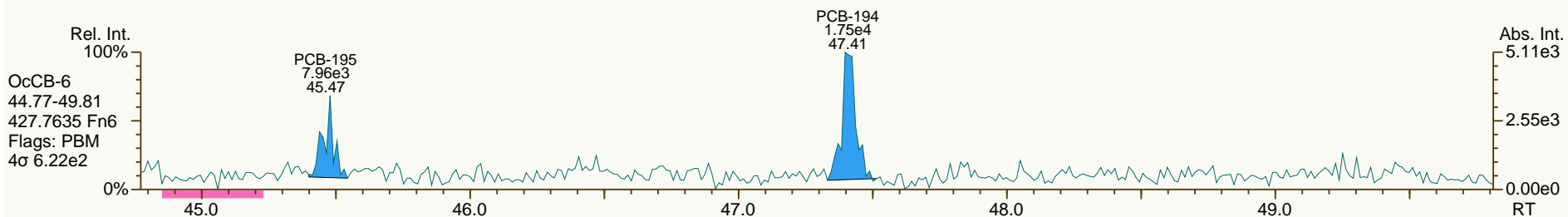
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

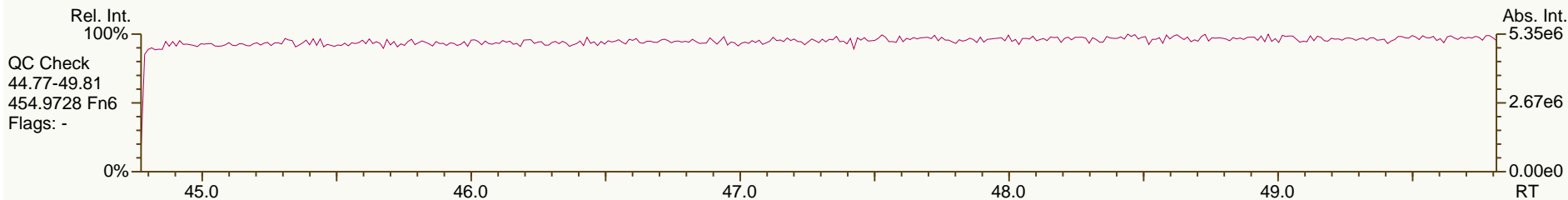
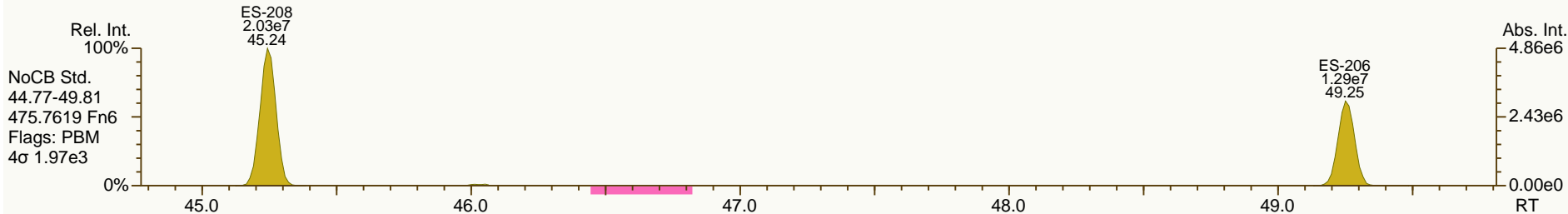
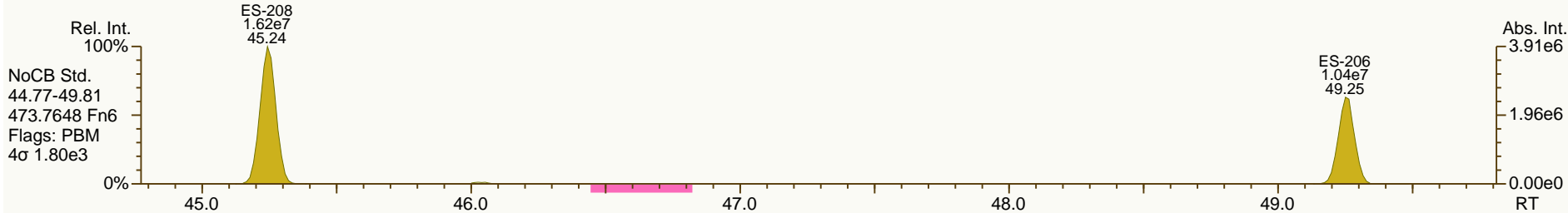
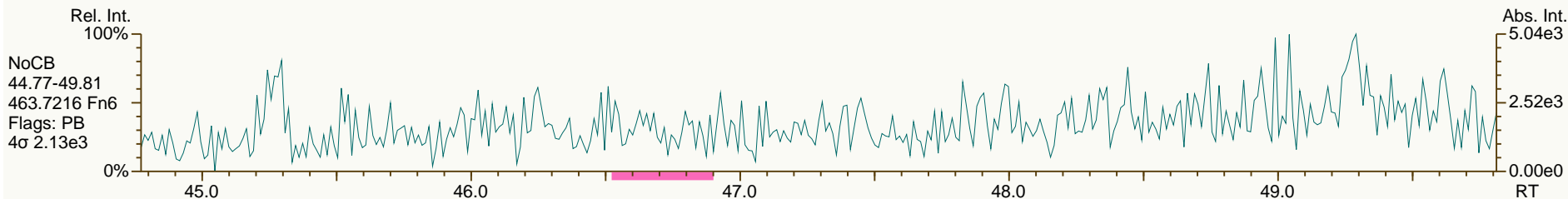
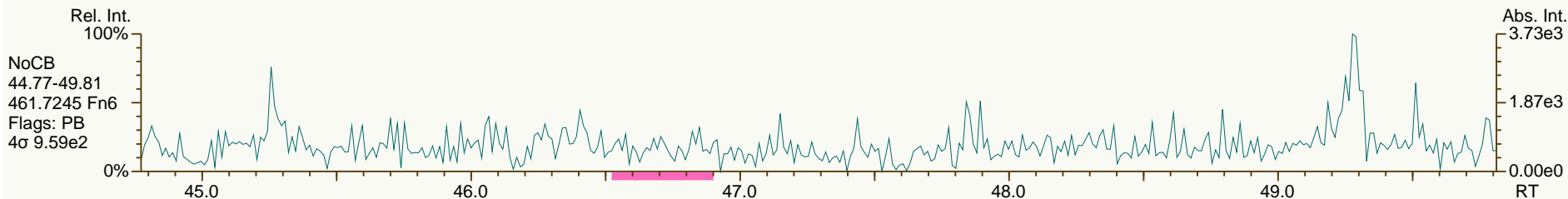
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

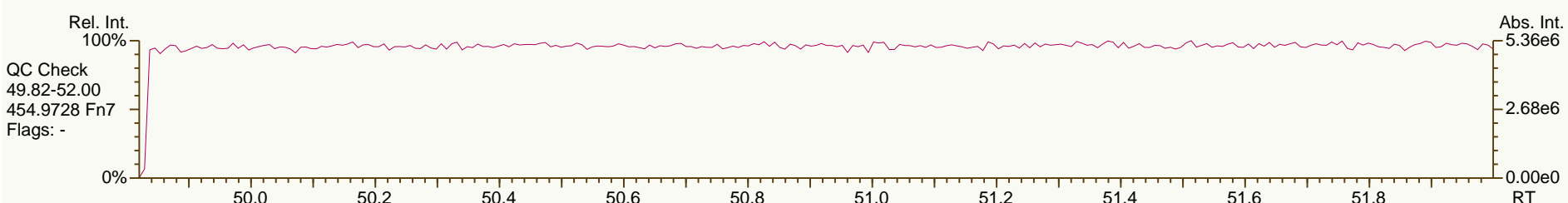
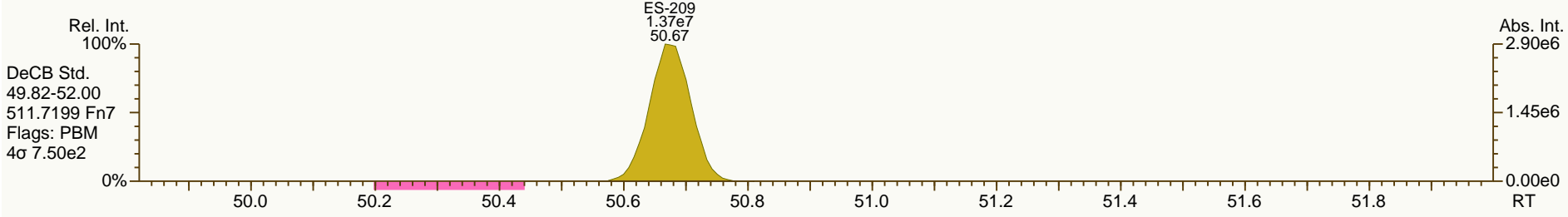
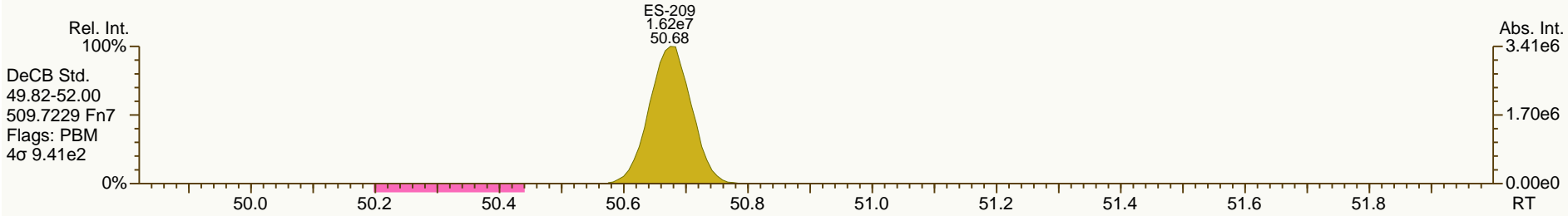
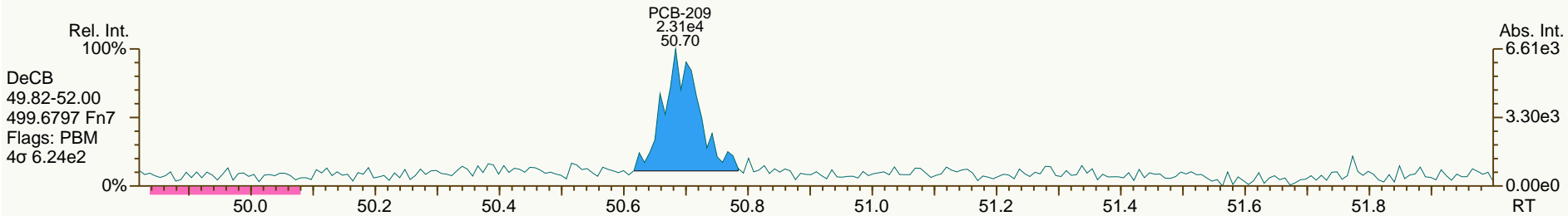
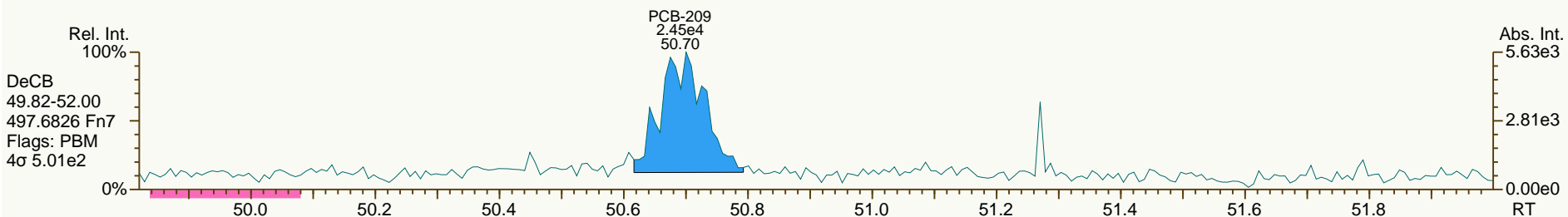
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SGS ID: A6528\_11906\_PCB\_002  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB099-1SWMID-140319-MD (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 28

Acq: 02-Apr-2014 08:40:36  
 User: LKB Datafile: 140402X11



Lab ID: A6528\_11906\_PCB\_003

ACQ: 04-Apr-2014 04:34:05 LKB

Wt/Vol: 0.96 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140403\_PCB\_XC

Client ID: PB101.1-1SWMID-140319-N (TOTAL)

UTP: 06-Apr-2014 16:55 CEM

J-level: 10.4 pg/L Split: 1

Checkcode: 388-879-CFL

Datafile: 140403X18

RPT: 10-Apr-2014 11:16 CM

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.66		1.0006	1.0004	-0.4	4.25E+05	0.75	1.15	13.4	4.56E+03	1.48
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	4.56E+03	1.56
PCB-105 233'44'-PeCB	35.64		1.0007	1.0006	-0.2	8.73E+05	0.64	1.11	32.6	2.65E+03	1.03
PCB-114 2344'5'-PeCB	35.10	J EMPC	1.0006	1.0005	-0.2	5.74E+04	0.74	1.20	2.02	2.65E+03	0.95
PCB-118 23'44'5'-PeCB	34.64		1.0007	1.0007	0	1.75E+06	0.63	1.19	63.3	2.65E+03	0.952
PCB-123 23'44'5'-PeCB	34.36	J	1.0007	1.0008	+0.2	4.48E+04	0.55	1.21	1.6	2.65E+03	0.94
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.55E+03	1.17
PCB-156/157 ...-HxCB	40.79	J C	1.0005	1.0003	-0.5	8.92E+04	1.39	1.10	3.93	1.61E+03	1.02
PCB-167 23'44'55'-HxCB	39.81	J EMPC	1.0006	1.0004	-0.5	3.18E+04	1.50	1.16	1.29	1.61E+03	0.688
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.61E+03	0.735
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.65E+03	0.822
PCB-209 DeCB	50.68	J B	1.0000	1.0006	+1.8	4.48E+04	1.06	1.11	3.08	1.21E+03	0.967
ES PCB-1	11.81		0.7244	0.7245	+0.1	3.30E+07	3.27	1.19	37.7 %	15%	150%
ES PCB-3	14.09		0.8640	0.8641	+0.1	3.90E+07	3.43	1.09	48.9 %	15%	150%
ES PCB-4	14.33		0.8793	0.8793	0	2.29E+07	1.61	0.52	59.8 %	25%	150%
ES PCB-15	20.02		1.2279	1.2282	+0.4	6.90E+07	1.57	1.04	90.4 %	25%	150%
ES PCB-19	17.40		1.0674	1.0674	0	2.60E+07	1.06	0.51	70 %	25%	150%
ES PCB-37	26.33		1.0793	1.0794	+0.2	6.29E+07	1.10	1.66	85.2 %	25%	150%
ES PCB-54	20.30		0.8322	0.8321	-0.1	3.55E+07	0.79	0.86	92.7 %	25%	150%
ES PCB-77	32.65		1.3381	1.3383	+0.4	5.76E+07	0.80	1.38	93.7 %	25%	150%
ES PCB-81	32.17		1.3186	1.3188	+0.4	5.54E+07	0.79	1.37	91.2 %	25%	150%
ES PCB-104	25.26		0.8317	0.8317	0	3.77E+07	1.59	0.80	115 %	25%	150%
ES PCB-105	35.62		1.1729	1.1730	+0.2	5.02E+07	1.59	1.20	103 %	25%	150%
ES PCB-114	35.08		1.1551	1.1552	+0.2	4.95E+07	1.60	1.22	99.8 %	25%	150%
ES PCB-118	34.62		1.1398	1.1399	+0.2	4.84E+07	1.59	1.16	103 %	25%	150%
ES PCB-123	34.34		1.1306	1.1306	0	4.82E+07	1.58	1.19	99.8 %	25%	150%
ES PCB-126	38.23		1.2588	1.2590	+0.5	4.30E+07	1.54	1.03	103 %	25%	150%
ES PCB-153	36.20		0.9715	0.9715	0	3.68E+07	1.31	1.11	100 %	25%	150%
ES PCB-155	30.20		0.8106	0.8105	-0.2	4.96E+07	1.27	1.59	91.9 %	25%	150%
ES PCB-156/157	40.78		1.0943	1.0944	+0.2	8.64E+07	1.30	1.60	79.5 %	25%	150%
ES PCB-167	39.79		1.0679	1.0680	+0.2	4.43E+07	1.26	1.67	78.2 %	25%	150%
ES PCB-169	43.49		1.1671	1.1672	+0.3	4.19E+07	1.27	1.56	79.2 %	25%	150%
ES PCB-170	43.00		0.9078	0.9077	-0.3	2.70E+07	1.08	0.95	94 %	25%	150%
ES PCB-180	41.94		0.8852	0.8852	0	3.25E+07	1.08	1.14	95.5 %	25%	150%
ES PCB-188	35.07		0.7404	0.7403	-0.2	3.75E+07	1.06	0.94	118 %	25%	150%
ES PCB-189	45.61		0.9628	0.9628	0	3.94E+07	1.04	1.58	97.3 %	25%	150%
ES PCB-202	39.61		0.8361	0.8360	-0.2	3.53E+07	0.90	0.97	107 %	25%	150%
ES PCB-205	47.77		1.0084	1.0084	0	2.98E+07	0.90	1.24	93.8 %	25%	150%
ES PCB-206	49.24		1.0393	1.0393	0	2.17E+07	0.80	0.83	102 %	25%	150%
ES PCB-208	45.23		0.9547	0.9547	0	3.22E+07	0.80	1.17	107 %	25%	150%
ES PCB-209	50.65		1.0692	1.0692	0	2.73E+07	1.17	1.11	96.2 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.78		0.9337	0.9337	0	7.27E+07	1.09	1.11	104 %	30%	135%
SS PCB-111	32.66		1.0754	1.0754	0	5.29E+07	1.56	1.03	107 %	30%	135%
SS PCB-178	37.64		1.0101	1.0101	0	2.54E+07	1.06	0.62	109 %	30%	135%
CS PCB-28	22.78		0.9337	0.9337	0	7.27E+07	1.09	1.85	88.6 %	30%	135%
CS PCB-111	32.66		1.0754	1.0754	0	5.29E+07	1.56	1.22	106 %	30%	135%
CS PCB-178	37.64		1.0101	1.0101	0	2.54E+07	1.06	0.58	128 %	30%	135%
JS PCB-9	16.30					7.34E+07	1.58				
JS PCB-52	24.39					4.45E+07	0.80				
JS PCB-101	30.37					4.07E+07	1.61				
JS PCB-138	37.26					3.40E+07	1.25				
JS PCB-194	47.37					2.56E+07	0.90				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
						Mono-CBs	25.9	25.9	1.8		
						Di-CBs	176	184	2.27		
						Tri-CBs	877	877	2.62		
						Tetra-CBs	1,610	1,610	1.29		
						Penta-CBs	619	640	0.925		
						Hexa-CBs	146	158	0.725		
						Hepta-CBs	42	51.8	0.888		
						Octa-CBs	7.56	16.2	0.855		
						Nona-CBs	0	0	2.19		
PCB-1 2-MoCB	11.82		1.0011	1.0011	0	2.27E+05	2.90	0.95	15.1	4.55E+03	1.86
PCB-2 3-MoCB	13.92	J	0.9880	0.9879	-0.1	8.03E+04	3.21	1.15	3.73	4.55E+03	1.53
PCB-3 4-MoCB	14.10	J	1.0009	1.0011	+0.2	1.34E+05	3.02	1.01	7.12	4.55E+03	1.75
PCB-4 22'-DiCB	14.35		1.0011	1.0010	-0.1	1.01E+06	1.54	1.23	74.4	5.58E+03	2.96
PCB-10 26-DiCB	NotFnd		1.0135	-		0.00E+00		1.88	ND	5.58E+03	1.94
PCB-9 25-DiCB	NotFnd		1.0010	-		0.00E+00		0.97	ND	6.03E+03	1.65
PCB-7 24-DiCB	NotFnd		1.0111	-		0.00E+00		1.11	ND	6.03E+03	1.45
PCB-6 23'-DiCB	16.71		1.0250	1.0251	+0.1	1.02E+06	1.76	1.04	29.8	6.03E+03	1.55
PCB-5 23-DiCB	NotFnd		1.0435	-		0.00E+00		1.03	ND	6.03E+03	1.56
PCB-8 24'-DiCB	17.13		1.0507	1.0509	+0.2	8.79E+05	1.63	1.06	25.1	6.03E+03	1.52
PCB-14 35-DiCB	NotFnd		0.9331	-		0.00E+00		1.23	ND	6.03E+03	1.3
PCB-11 33'-DiCB	19.46	B	0.9720	0.9720	0	9.41E+05	1.63	1.06	26.9	6.03E+03	1.52
PCB-13/12 34' /34-DiCB	19.73	J EMPC C	0.9866	0.9854	-1.4	3.02E+05	2.03	1.06	8.63	6.03E+03	1.52
PCB-15 44'-DiCB	20.03		1.0008	1.0007	-0.1	6.54E+05	1.62	1.02	19.4	6.03E+03	1.58
PCB-19 22'6-TrCB	17.42		1.0010	1.0011	+0.1	5.24E+05	1.15	1.15	36.7	5.74E+03	3.35
PCB-30/18 246/22'5-TrCB	19.18	C	1.1017	1.1022	+0.6	3.05E+06	1.05	1.51	163	5.74E+03	2.55
PCB-17 22'4-TrCB	19.57		1.1247	1.1248	+0.1	1.24E+06	1.00	1.27	78.8	5.74E+03	3.02
PCB-27 23'6-TrCB	19.76		1.1357	1.1357	0	3.08E+05	0.97	1.77	14	5.74E+03	2.16
PCB-24 236-TrCB	NotFnd		1.1435	-		0.00E+00		1.72	ND	5.74E+03	2.23
PCB-16 22'3-TrCB	19.99		1.1489	1.1491	+0.2	6.98E+05	1.08	0.94	59.8	5.74E+03	4.1

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.47		1.1763	1.1765	+0.2	1.86E+06	1.07	1.88	79.7	5.74E+03	2.05
PCB-34 23'5'-TrCB	NotFnd		0.8211	-		0.00E+00		1.24	ND	6.24E+03	1.64
PCB-23 235-TrCB	NotFnd		0.8268	-		0.00E+00		1.26	ND	6.24E+03	1.62
PCB-26/29 23'5'/245-TrCB	22.03	C	0.8375	0.8366	-1.2	1.51E+06	1.03	1.28	39.3	6.24E+03	1.6
PCB-25 23'4-TrCB	22.25		0.8451	0.8449	-0.3	1.84E+06	0.99	1.30	46.8	6.24E+03	1.57
PCB-31 24'5-TrCB	22.53		0.8556	0.8556	0	4.91E+06	1.01	1.34	122	6.24E+03	1.52
PCB-28/20 244'/233'-TrCB	22.80	C	0.8663	0.8659	-0.5	5.60E+06	0.99	1.24	150	6.24E+03	1.64
PCB-21/33 234/23'4'-TrCB	23.01	C	0.8732	0.8739	+1.0	9.96E+05	1.02	1.29	25.6	6.24E+03	1.58
PCB-22 234'-TrCB	23.37		0.8875	0.8875	0	1.39E+06	1.01	1.19	38.8	6.24E+03	1.71
PCB-36 33'5-TrCB	NotFnd		0.9397	-		0.00E+00		1.34	ND	6.24E+03	1.52
PCB-39 34'5-TrCB	NotFnd		0.9520	-		0.00E+00		1.35	ND	6.24E+03	1.51
PCB-38 345-TrCB	NotFnd		0.9721	-		0.00E+00		1.21	ND	6.24E+03	1.68
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.17	ND	6.24E+03	1.74
PCB-37 344'-TrCB	26.35		1.0008	1.0009	+0.2	7.61E+05	1.05	1.08	23.4	6.24E+03	1.89
PCB-54 22'66'-TeCB	20.32	J EMPC	1.0010	1.0011	+0.1	2.26E+04	1.10	1.35	0.983	2.37E+03	0.934
PCB-50/53 22'46/22'56'-TeCB	22.27	C	0.9141	0.9130	-1.5	1.11E+06	0.77	0.91	46.2	2.93E+03	1.23
PCB-45 22'36-TeCB	22.88		0.9381	0.9381	0	7.93E+05	0.79	0.75	39.8	2.93E+03	1.49
PCB-51 22'46'-TeCB	22.96		0.9410	0.9412	+0.3	8.76E+05	0.87	0.95	34.6	2.93E+03	1.17
PCB-46 22'36'-TeCB	23.16		0.9497	0.9496	-0.1	3.50E+05	0.81	0.73	18.1	2.93E+03	1.53
PCB-52 22'55'-TeCB	24.42		1.0009	1.0009	0	6.05E+06	0.79	0.89	255	2.93E+03	1.25
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.15	ND	2.93E+03	0.971
PCB-43 22'35-TeCB	24.64	J	1.0102	1.0101	-0.1	1.82E+05	0.82	0.72	9.59	2.93E+03	1.56
PCB-69/49 23'46/22'45'-TeCB	24.86	C	1.0181	1.0189	+1.2	4.09E+06	0.79	1.09	142	2.93E+03	1.03
PCB-48 22'45-TeCB	25.11		1.0296	1.0295	-0.2	7.79E+05	0.79	0.89	33	2.93E+03	1.26
PCB-44/47/65 ...-TeCB	25.31	C	1.0385	1.0376	-1.4	6.17E+06	0.78	0.96	243	2.93E+03	1.17
PCB-59/62/75 ...-TeCB	25.60	J C	1.0498	1.0495	-0.5	5.78E+05	0.76	1.25	17.4	2.93E+03	0.895
PCB-42 22'34'-TeCB	25.77		1.0566	1.0566	0	1.35E+06	0.79	0.82	62.6	2.93E+03	1.37
PCB-41 22'34-TeCB	26.10		1.0702	1.0701	-0.2	2.75E+05	0.71	0.72	14.4	2.93E+03	1.55
PCB-71/40 23'4'6/22'33'-TeCB	26.20	C	1.0741	1.0742	+0.2	2.59E+06	0.81	0.92	106	2.93E+03	1.21
PCB-64 234'6-TeCB	26.40		1.0823	1.0823	0	2.93E+06	0.76	1.33	83	2.93E+03	0.84
PCB-72 23'55'-TeCB	NotFnd		0.8429	-		0.00E+00		1.23	ND	4.56E+03	1.41
PCB-68 23'45'-TeCB	27.37		0.8509	0.8509	0	8.39E+05	0.81	1.32	24	4.56E+03	1.32
PCB-57 233'5-TeCB	NotFnd		0.8624	-		0.00E+00		1.17	ND	4.56E+03	1.49
PCB-58 233'5'-TeCB	NotFnd		0.8687	-		0.00E+00		1.23	ND	4.56E+03	1.42
PCB-67 23'45-TeCB	28.10	J	0.8736	0.8736	0	1.47E+05	0.77	1.27	4.37	4.56E+03	1.37
PCB-63 234'5-TeCB	28.33	J	0.8806	0.8806	0	2.52E+05	0.74	1.33	7.16	4.56E+03	1.31
PCB-61/70/74/76 ...-TeCB	28.63	C	0.8897	0.8900	+0.5	6.91E+06	0.82	1.21	215	4.56E+03	1.44
PCB-66 23'44'-TeCB	28.90		0.8984	0.8984	0	4.22E+06	0.78	1.18	134	4.56E+03	1.47
PCB-55 233'4-TeCB	NotFnd		0.9030	-		0.00E+00		1.15	ND	4.56E+03	1.52
PCB-56 233'4'-TeCB	29.48		0.9165	0.9164	-0.2	2.18E+06	0.80	1.14	72	4.56E+03	1.53
PCB-60 2344'-TeCB	29.68		0.9225	0.9225	0	9.02E+05	0.79	1.16	29.4	4.56E+03	1.51
PCB-80 33'55'-TeCB	NotFnd		0.9326	-		0.00E+00		1.36	ND	4.56E+03	1.28
PCB-79 33'45'-TeCB	31.37	J	0.9737	0.9751	+2.6	1.16E+05	0.74	1.37	3.2	4.56E+03	1.28
PCB-78 33'45-TeCB	NotFnd		0.9888	-		0.00E+00		1.11	ND	4.56E+03	1.57
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.46E+03	0.505
PCB-96 22'366'-PeCB	25.60	J	1.0135	1.0136	+0.2	6.28E+04	0.68	1.15	3.02	1.46E+03	0.628
PCB-103 22'45'6-PeCB	NotFnd		0.8985	-		0.00E+00		0.92	ND	2.65E+03	1.23
PCB-94 22'356'-PeCB	NotFnd		0.9048	-		0.00E+00		0.78	ND	2.65E+03	1.47

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.86		0.9173	0.9173	0	1.52E+06	0.62	0.84	78	2.65E+03	1.35
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9243	-		0.00E+00		0.85	ND	2.65E+03	1.35
PCB-102 22'456'-PeCB	28.18	J	0.9278	0.9281	+0.5	1.30E+05	0.65	0.84	6.72	2.65E+03	1.36
PCB-98 22'34'6'-PeCB	NotFnd		0.9301	-		0.00E+00		0.85	ND	2.65E+03	1.34
PCB-88 22'346-PeCB	NotFnd		0.9402	-		0.00E+00		0.81	ND	2.65E+03	1.4
PCB-91 22'34'6-PeCB	28.61		0.9423	0.9422	-0.2	4.34E+05	0.56	0.88	21.5	2.65E+03	1.3
PCB-84 22'33'6-PeCB	28.81		0.9486	0.9486	0	6.13E+05	0.66	0.70	37.8	2.65E+03	1.62
PCB-89 22'346'-PeCB	29.22	J	0.9623	0.9622	-0.2	8.78E+04	0.64	0.75	5.09	2.65E+03	1.52
PCB-121 23'45'6-PeCB	NotFnd		0.9735	-		0.00E+00		1.19	ND	2.65E+03	0.961
PCB-92 22'355'-PeCB	29.88	EMPC	0.9840	0.9840	0	2.82E+05	0.52	0.80	15.2	2.65E+03	1.42
PCB-113/90/101 ...-PeCB	30.39	C	0.9999	1.0007	+1.5	1.86E+06	0.61	0.96	84.4	2.65E+03	1.19
PCB-83 22'33'5-PeCB	30.80	J	1.0144	1.0143	-0.2	1.30E+05	0.65	0.65	8.7	2.65E+03	1.76
PCB-99 22'44'5-PeCB	30.90		1.0175	1.0174	-0.2	1.03E+06	0.63	0.95	46.8	2.65E+03	1.2
PCB-112 233'56-PeCB	NotFnd		1.0208	-		0.00E+00		1.12	ND	2.65E+03	1.01
PCB-108/119/86/97/125...-PeCB	31.37	C	1.0321	1.0330	+1.7	1.68E+06	0.58	0.97	75.3	2.65E+03	1.18
PCB-117 234'56-PeCB	31.87	J	1.0496	1.0494	-0.4	6.93E+04	0.67	1.09	2.75	2.65E+03	1.04
PCB-116/85 23456/22'344'-PeCB	31.96	C	1.0527	1.0523	-0.8	4.93E+05	0.64	0.96	22.3	2.65E+03	1.19
PCB-110 233'4'6-PeCB	32.09		1.0566	1.0567	+0.2	2.64E+06	0.64	1.10	104	2.65E+03	1.04
PCB-115 2344'6-PeCB	NotFnd		1.0594	-		0.00E+00		1.12	ND	2.65E+03	1.02
PCB-82 22'33'4-PeCB	32.37		1.0659	1.0659	0	2.99E+05	0.68	0.69	18.8	2.65E+03	1.65
PCB-111 233'55'-PeCB	NotFnd		1.0761	-		0.00E+00		1.21	ND	2.65E+03	0.946
PCB-120 23'455'-PeCB	NotFnd		1.0892	-		0.00E+00		1.20	ND	2.65E+03	0.949
PCB-107/124 ...-PeCB	34.05	J EMPC C	0.9915	0.9917	+0.4	6.97E+04	0.51	1.09	2.78	2.65E+03	1.05
PCB-109 233'46-PeCB	34.25	J	0.9975	0.9976	+0.2	1.56E+05	0.60	1.19	5.72	2.65E+03	0.961
PCB-106 233'45-PeCB	34.43	J EMPC	1.0039	1.0028	-2.3	3.70E+04	0.42	1.15	1.4	2.65E+03	0.994
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.00	ND	2.65E+03	1.15
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.09	ND	2.65E+03	1.05
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.39E+03	0.457
PCB-152 22'3566'-HxCB	NotFnd		1.0062	-		0.00E+00		1.08	ND	1.39E+03	0.536
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.10	ND	1.39E+03	0.523
PCB-136 22'33'66'-HxCB	30.83	J B EMPC	1.0210	1.0210	0	1.08E+05	1.59	1.00	4.52	1.39E+03	0.575
PCB-145 22'3466'-HxCB	NotFnd		1.0299	-		0.00E+00		1.04	ND	1.39E+03	0.556
PCB-148 22'34'56'-HxCB	NotFnd		1.0719	-		0.00E+00		1.08	ND	1.39E+03	0.769
PCB-151/135 ...-HxCB	32.88	J B C	1.0891	1.0890	-0.2	2.10E+05	1.14	1.04	11.5	1.39E+03	0.792
PCB-154 22'44'56'-HxCB	NotFnd		1.0960	-		0.00E+00		1.22	ND	1.39E+03	0.678
PCB-144 22'345'6-HxCB	NotFnd		1.1048	-		0.00E+00		1.09	ND	1.39E+03	0.758
PCB-147/149 ...-HxCB	33.66	B C	1.1148	1.1147	-0.2	5.43E+05	1.26	1.08	28.6	1.39E+03	0.767
PCB-134 22'33'56-HxCB	NotFnd		1.1205	-		0.00E+00		0.82	ND	1.39E+03	1.01
PCB-143 22'3456'-HxCB	NotFnd		1.1231	-		0.00E+00		1.06	ND	1.39E+03	0.783
PCB-139/140 ...-HxCB	NotFnd	C	1.1319	-		0.00E+00		1.11	ND	1.39E+03	0.746
PCB-131 22'33'46-HxCB	NotFnd		1.1377	-		0.00E+00		0.92	ND	1.39E+03	0.899
PCB-142 22'3456-HxCB	NotFnd		1.1425	-		0.00E+00		0.92	ND	1.39E+03	0.897
PCB-132 22'33'46'-HxCB	34.74	B	1.1502	1.1503	+0.2	2.20E+05	1.16	0.96	13	1.39E+03	0.861
PCB-133 22'33'55'-HxCB	NotFnd		1.1636	-		0.00E+00		1.02	ND	1.39E+03	0.813
PCB-165 233'55'6-HxCB	NotFnd		0.9523	-		0.00E+00		1.33	ND	1.39E+03	0.622
PCB-146 22'34'55'-HxCB	35.69	J B	0.9580	0.9580	0	1.06E+05	1.07	1.12	5.37	1.39E+03	0.735
PCB-161 233'45'6-HxCB	NotFnd		0.9612	-		0.00E+00		1.50	ND	1.39E+03	0.552
PCB-153/168 ...-HxCB	36.22	B C	0.9727	0.9721	-1.3	6.56E+05	1.39	1.38	27	1.39E+03	0.599

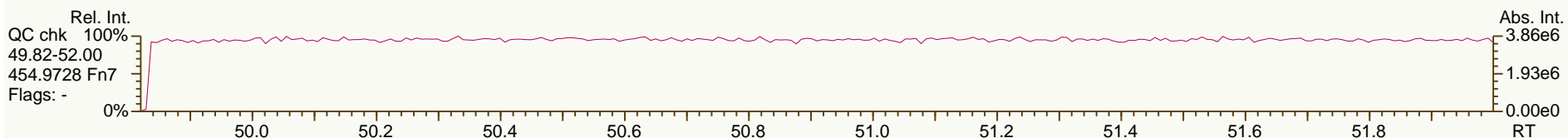
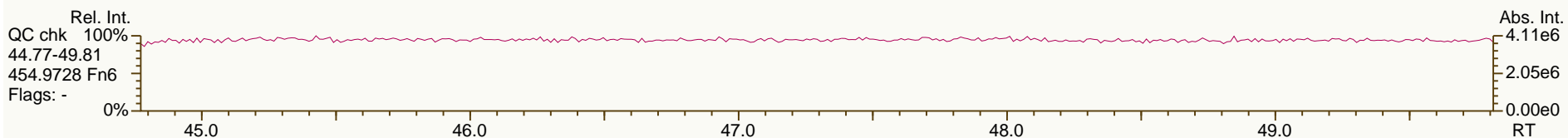
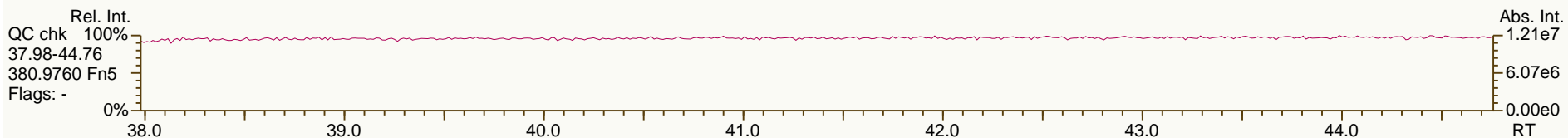
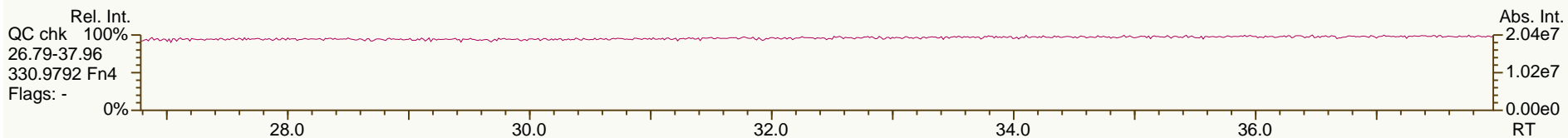
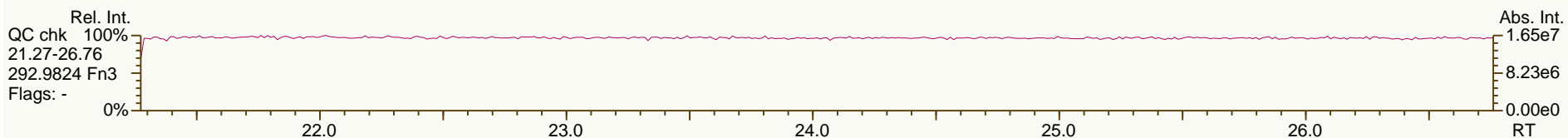
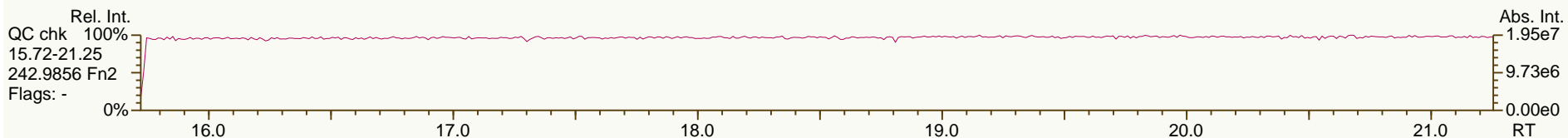
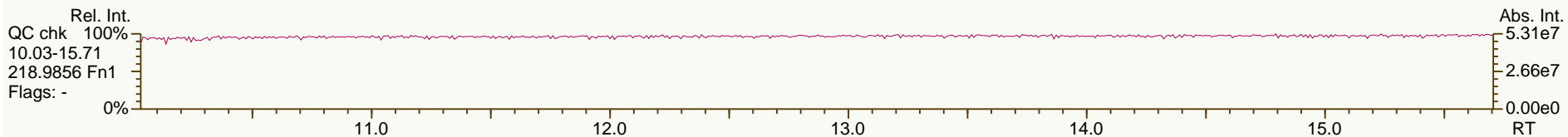


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PCB-141 22'3455'-HxCB	36.39	J	0.9766	0.9766	0	1.18E+05	1.25	1.05	6.39	1.39E+03	0.79
PCB-130 22'33'45'-HxCB	36.73	J	0.9859	0.9858	-0.2	5.40E+04	1.40	0.92	3.34	1.39E+03	0.901
PCB-137 22'344'5-HxCB	36.92	J	0.9912	0.9909	-0.7	4.40E+04	1.13	1.20	2.09	1.39E+03	0.689
PCB-164 233'4'5'6-HxCB	37.01	J EMPC	0.9934	0.9934	0	5.81E+04	0.95	1.36	2.43	1.39E+03	0.609
PCB-163/138/129 ...-HxCB	37.28	B C	1.0011	1.0007	-0.9	7.49E+05	1.22	1.11	38.3	1.39E+03	0.743
PCB-160 233'456-HxCB	NotFnd		1.0049	-		0.00E+00		1.39	ND	1.39E+03	0.594
PCB-158 233'44'6-HxCB	37.62	J EMPC	1.0097	1.0097	0	8.90E+04	1.06	1.53	3.31	1.39E+03	0.54
PCB-128/166 ...-HxCB	38.37	J C	0.9639	0.9643	+0.9	1.19E+05	1.12	0.87	6.44	1.61E+03	0.917
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.06	ND	1.61E+03	0.755
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.61E+03	0.754
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.30E+03	0.574
PCB-179 22'33'566'-HpCB	35.38	J	1.0087	1.0088	+0.2	7.98E+04	1.02	1.07	4.15	1.30E+03	0.68
PCB-184 22'344'66'-HpCB	35.83	J	1.0217	1.0216	-0.2	4.19E+04	0.89	1.05	2.21	1.30E+03	0.691
PCB-176 22'33'466'-HpCB	36.14	J EMPC	1.0302	1.0304	+0.4	1.86E+04	1.35	1.15	0.903	1.30E+03	0.634
PCB-186 22'34566'-HpCB	NotFnd		1.0415	-		0.00E+00		1.08	ND	1.30E+03	0.672
PCB-178 22'33'55'6-HpCB	37.66	J	1.0736	1.0738	+0.5	2.06E+04	1.17	0.76	1.5	1.30E+03	0.953
PCB-175 22'33'45'6-HpCB	NotFnd		1.0891	-		0.00E+00		1.06	ND	1.63E+03	1.03
PCB-187 22'34'55'6-HpCB	38.43		1.0956	1.0956	0	1.96E+05	1.09	1.12	11.2	1.63E+03	0.974
PCB-182 22'344'56'-HpCB	NotFnd		1.1007	-		0.00E+00		1.16	ND	1.63E+03	0.946
PCB-183 22'344'5'6-HpCB	38.95	J EMPC	1.1105	1.1105	0	6.31E+04	1.25	1.24	3.28	1.63E+03	0.884
PCB-185 22'3455'6-HpCB	NotFnd		1.1129	-		0.00E+00		1.00	ND	1.63E+03	1.09
PCB-174 22'33'456'-HpCB	39.15	J EMPC	1.1160	1.1163	+0.7	8.28E+04	0.83	0.96	5.57	1.63E+03	1.15
PCB-177 22'33'45'6'-HpCB	39.52	J	1.1268	1.1269	+0.2	6.20E+04	1.00	0.92	4.34	1.63E+03	1.19
PCB-181 22'344'56-HpCB	NotFnd		1.1366	-		0.00E+00		1.08	ND	1.63E+03	1.02
PCB-171/173 ...-HpCB	NotFnd	C	1.1419	-		0.00E+00		0.94	ND	1.63E+03	1.17
PCB-172 22'33'455'-HpCB	NotFnd		0.9077	-		0.00E+00		0.97	ND	1.63E+03	1.13
PCB-192 233'455'6-HpCB	NotFnd		0.9131	-		0.00E+00		1.28	ND	1.63E+03	0.853
PCB-180/193 ...-HpCB	41.95	J C	0.9191	0.9198	+1.8	2.51E+05	0.96	1.23	13.1	1.63E+03	0.89
PCB-191 233'44'5'6-HpCB	NotFnd		0.9264	-		0.00E+00		1.37	ND	1.63E+03	0.796
PCB-170 22'33'44'5-HpCB	43.03	J	0.9433	0.9434	+0.3	7.83E+04	1.14	1.11	5.47	1.63E+03	1.18
PCB-190 233'44'56-HpCB	NotFnd		0.9531	-		0.00E+00		1.58	ND	1.63E+03	0.824
PCB-202 22'33'55'66'-OoCB	39.63	J	1.0005	1.0006	+0.2	3.12E+04	0.91	1.05	1.76	1.31E+03	0.771
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.31E+03	0.727
PCB-204 22'344'566'-OoCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.31E+03	0.765
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0396	-		0.00E+00		1.16	ND	1.31E+03	0.698
PCB-200 22'33'4566'-OoCB	NotFnd		1.0419	-		0.00E+00		1.03	ND	1.31E+03	0.791
PCB-198/199 ...-OoCB	43.61	J EMPC C	1.1005	1.1011	+1.6	6.95E+04	1.07	0.73	5.61	1.31E+03	1.11
PCB-196 22'33'44'56'-OoCB	44.17	J	1.1150	1.1152	+0.5	3.25E+04	1.00	0.78	2.48	1.31E+03	1.04
PCB-203 22'344'55'6-OoCB	44.33	J EMPC	1.1192	1.1192	0	4.02E+04	1.11	0.80	2.99	1.31E+03	1.02
PCB-195 22'33'44'56-OoCB	NotFnd		0.9515	-		0.00E+00		0.72	ND	1.35E+03	1.38
PCB-194 22'33'44'55'-OoCB	47.39	J	0.9921	0.9920	-0.3	3.73E+04	0.98	0.79	3.33	1.35E+03	1.27
PCB-205 233'44'55'6-OoCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.35E+03	0.94
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.01E+03	1.71
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0179	-		0.00E+00		1.13	ND	3.01E+03	1.7
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	3.01E+03	2.67

SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)  
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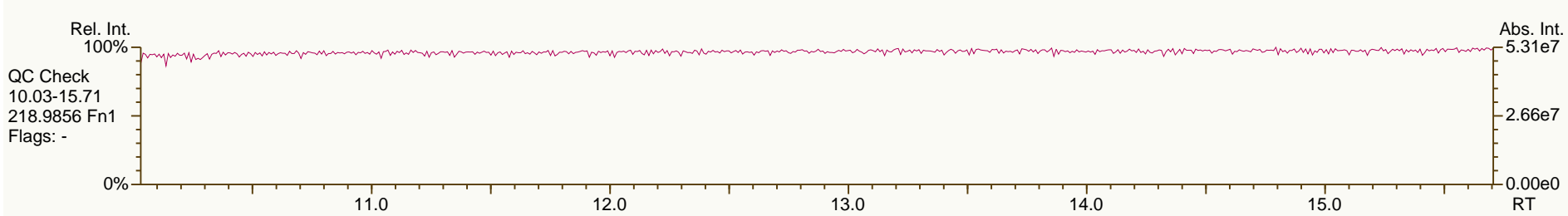
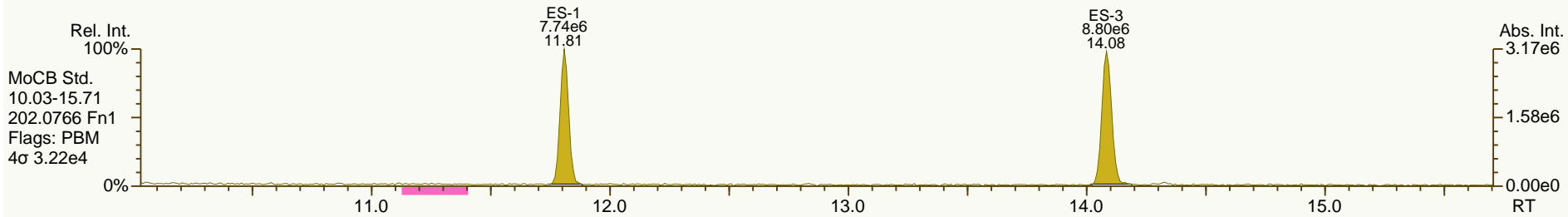
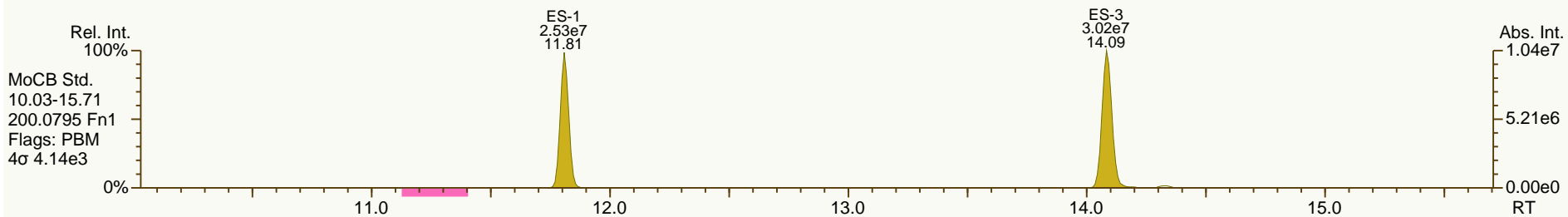
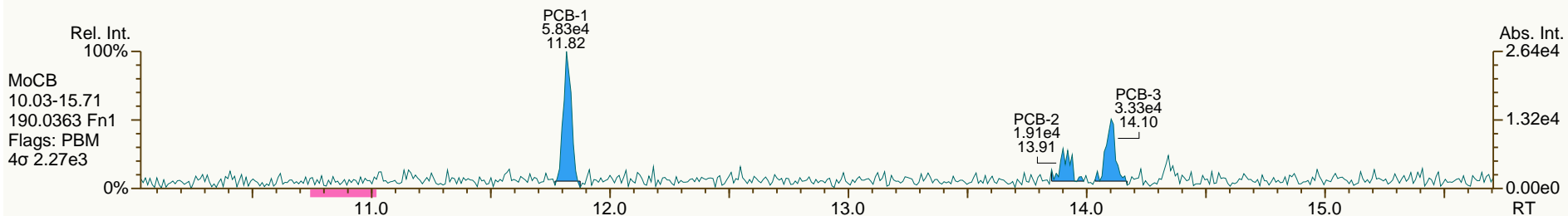
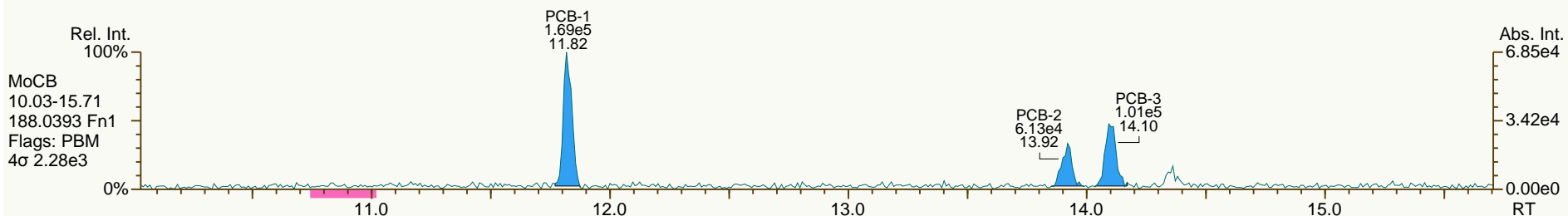
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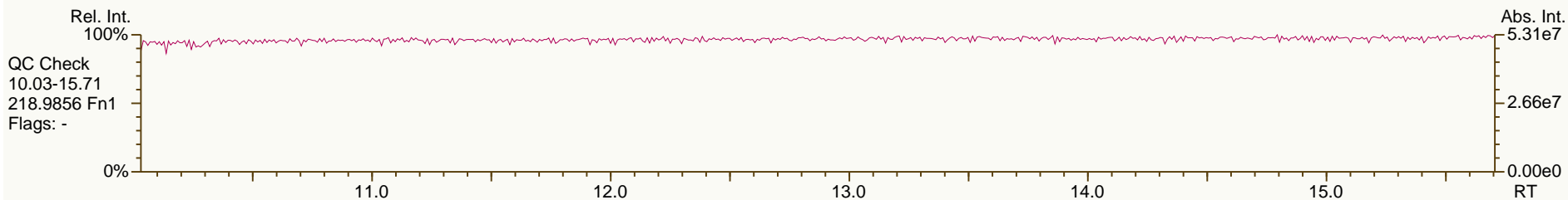
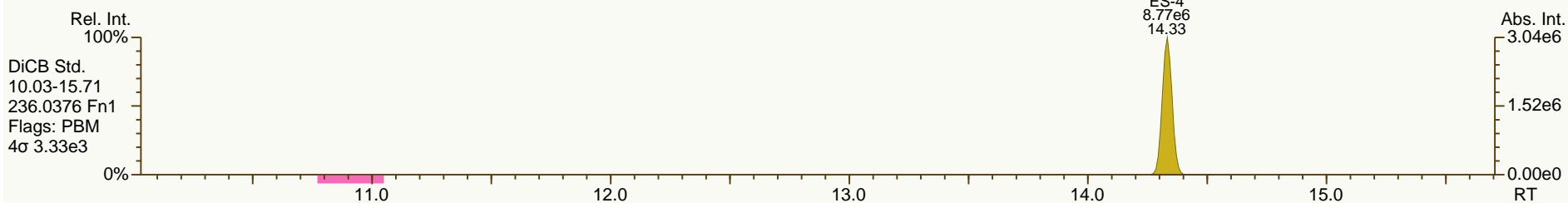
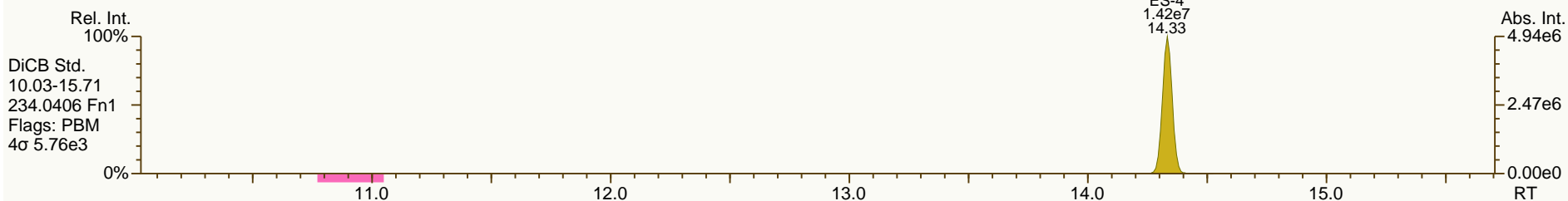
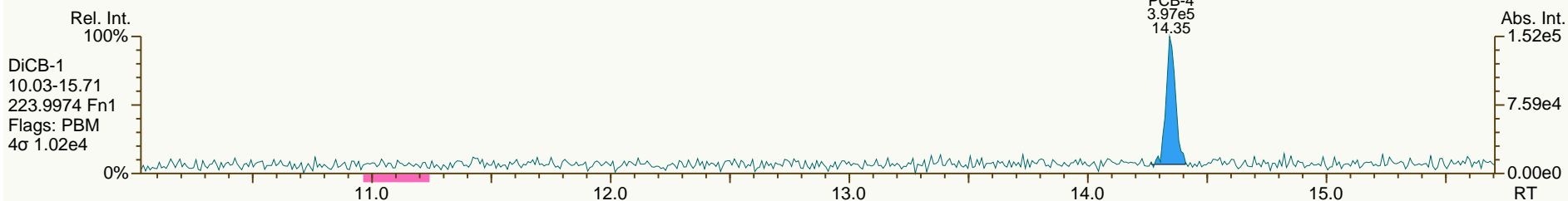
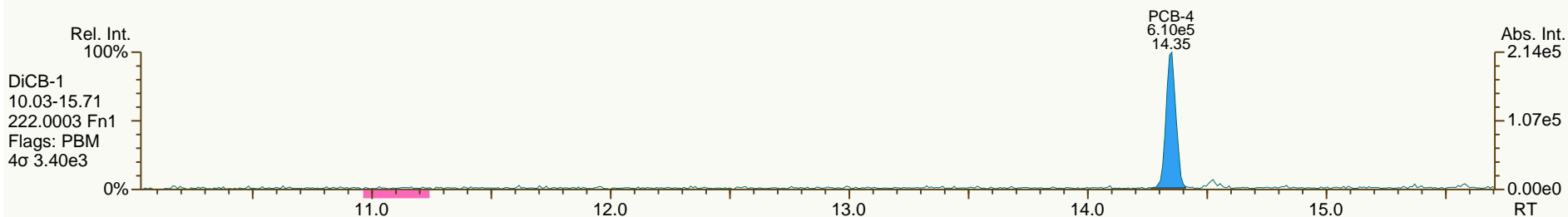
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SGS ID: A6528\_11906\_PCB\_003  
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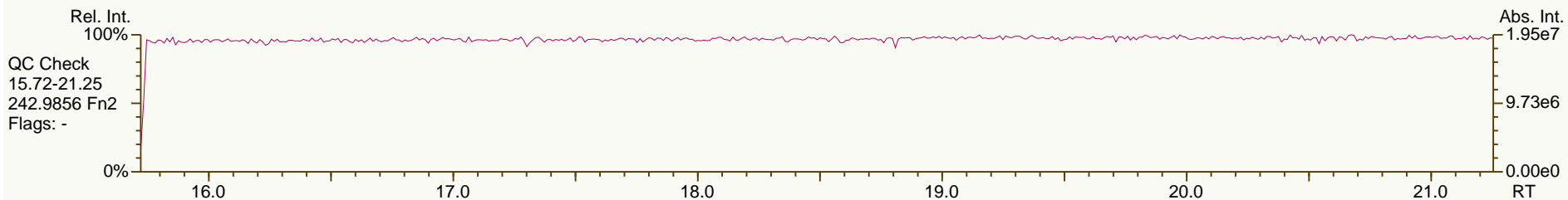
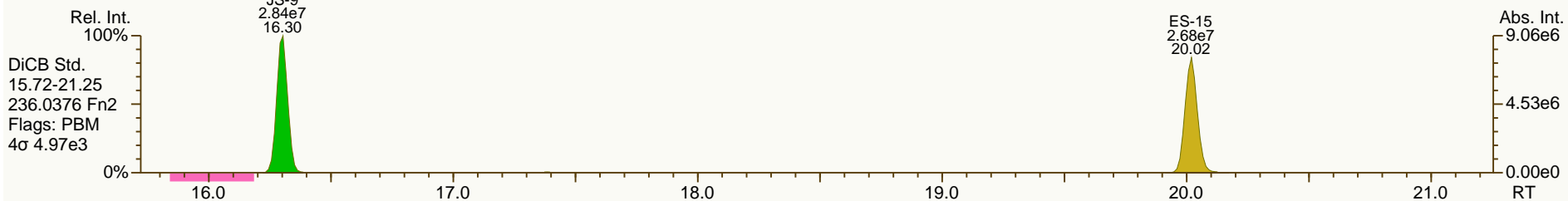
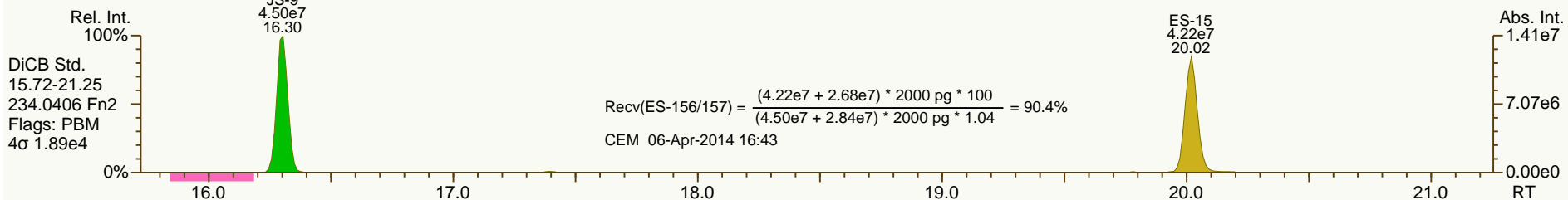
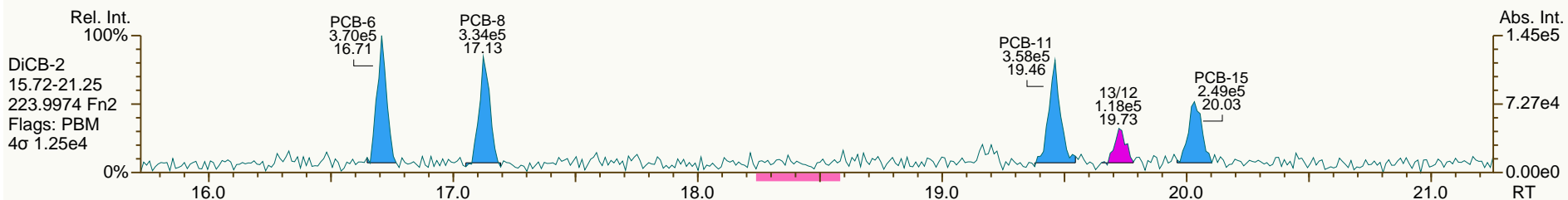
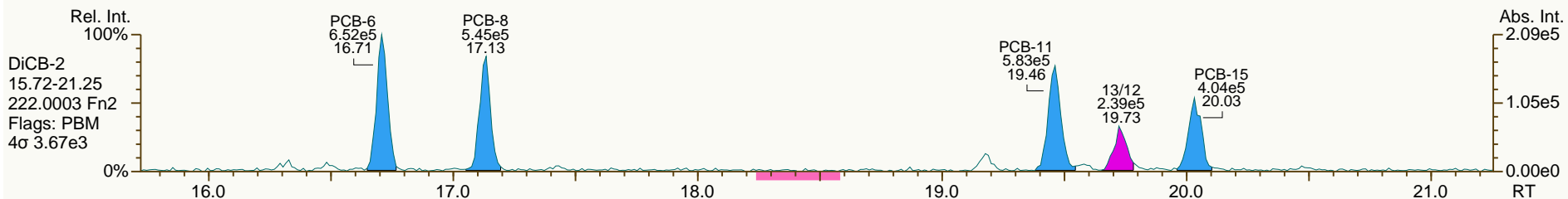
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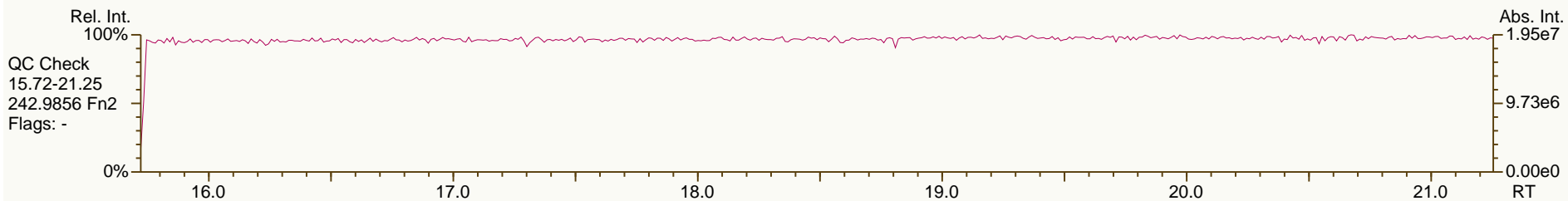
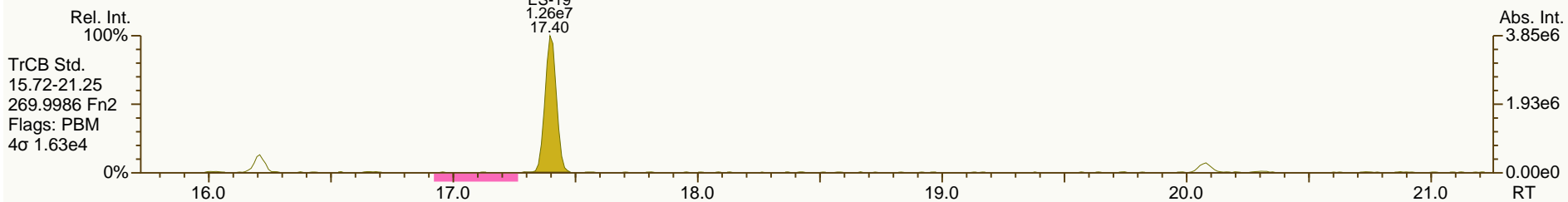
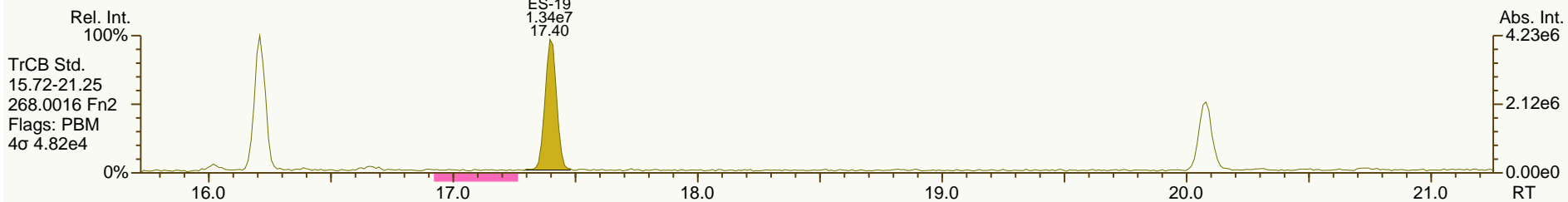
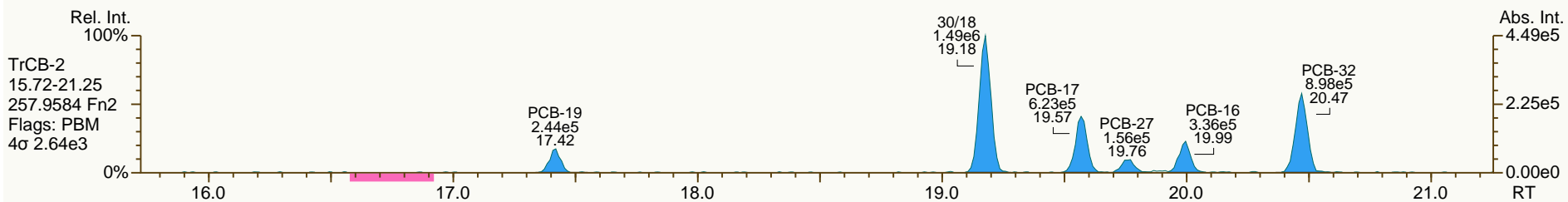
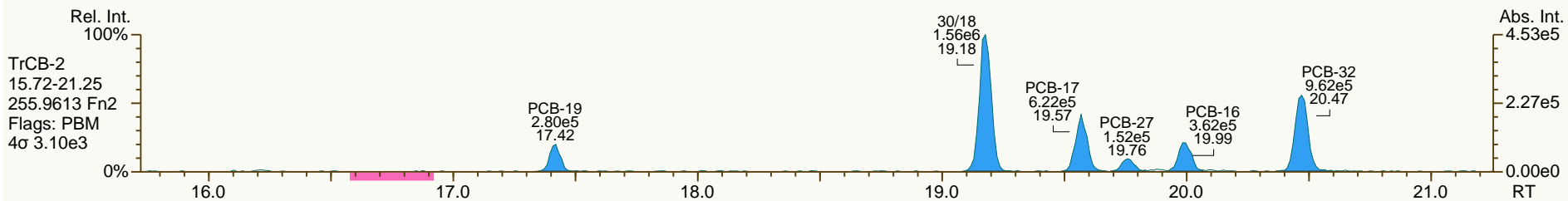
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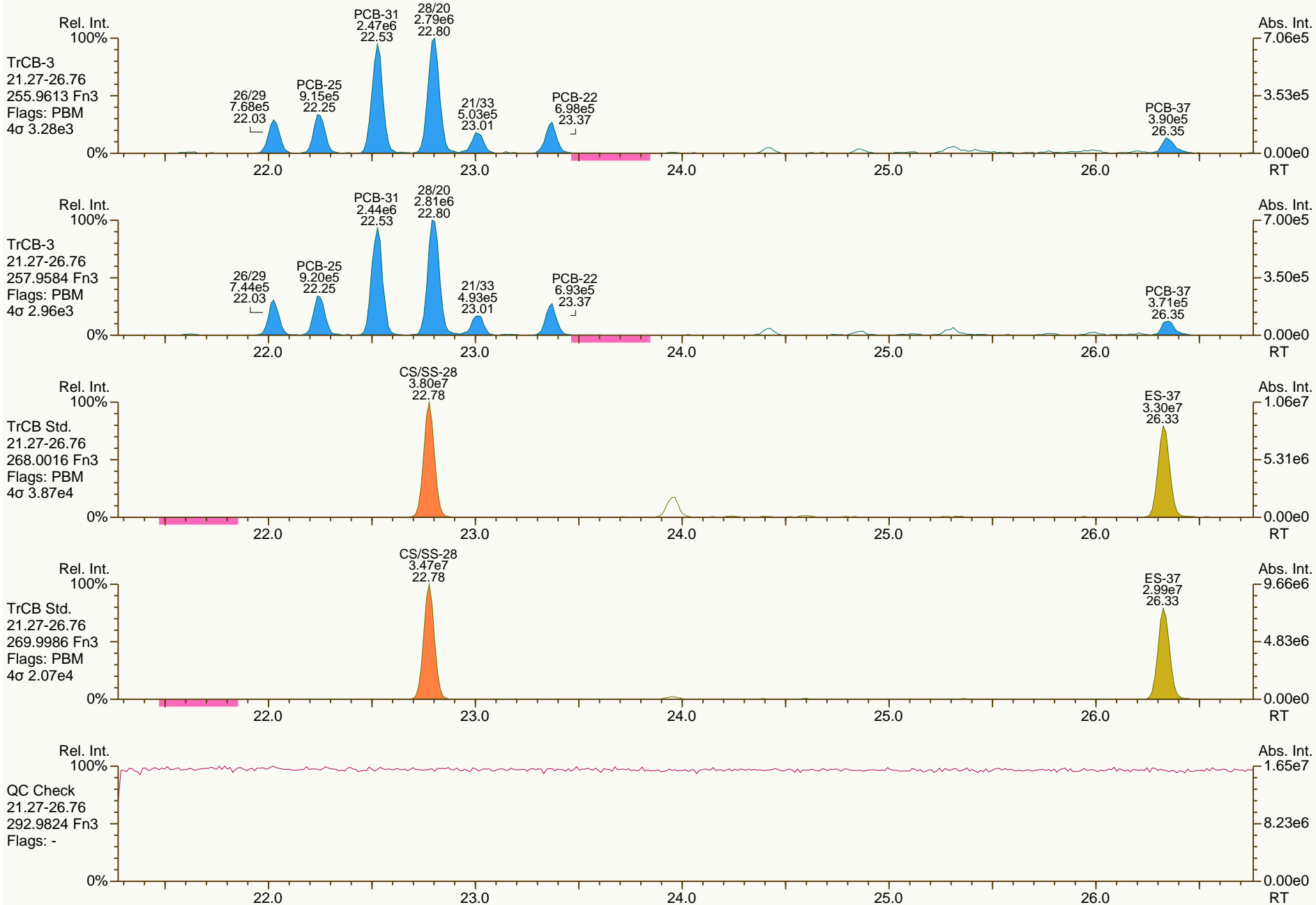
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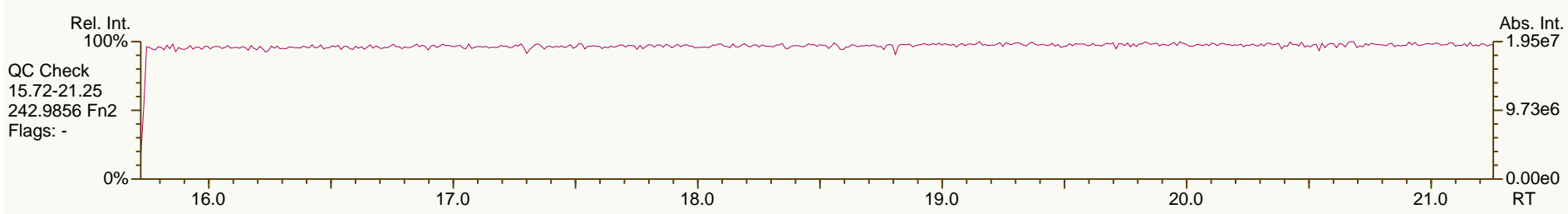
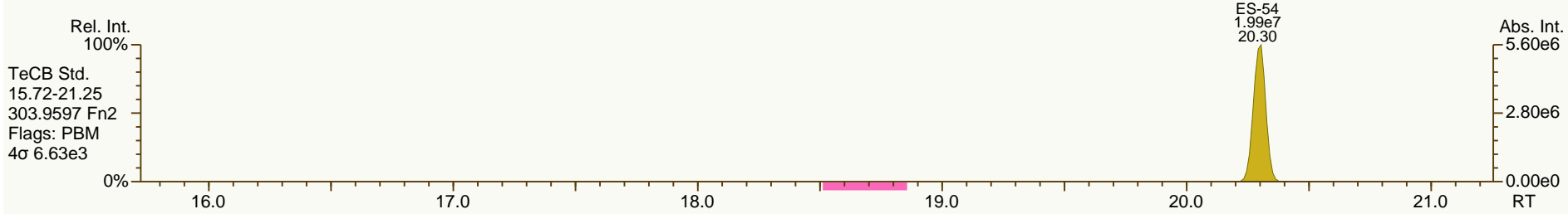
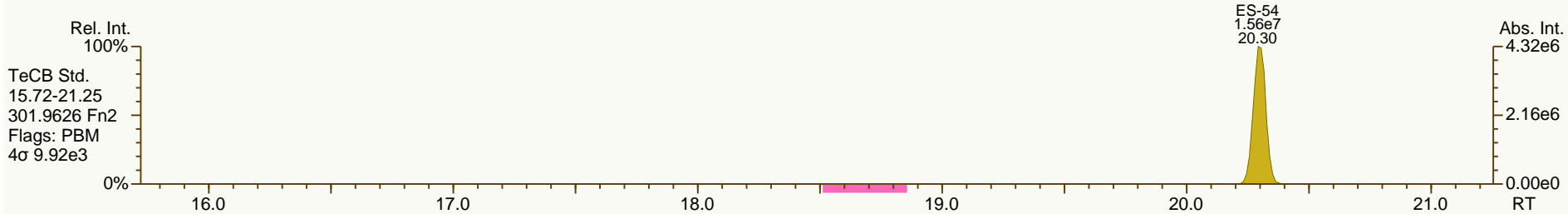
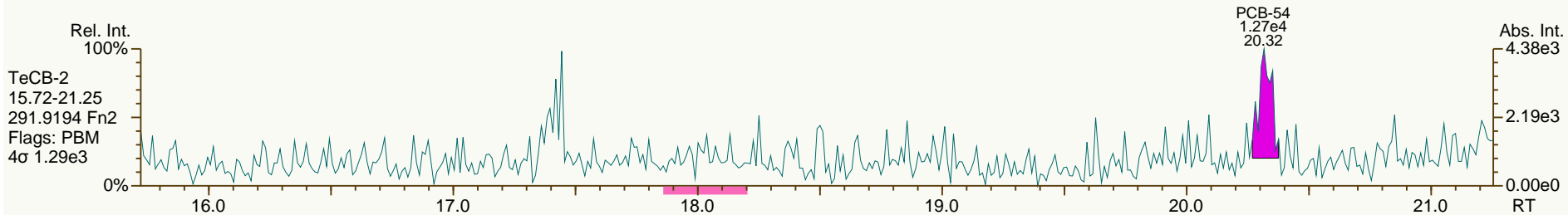
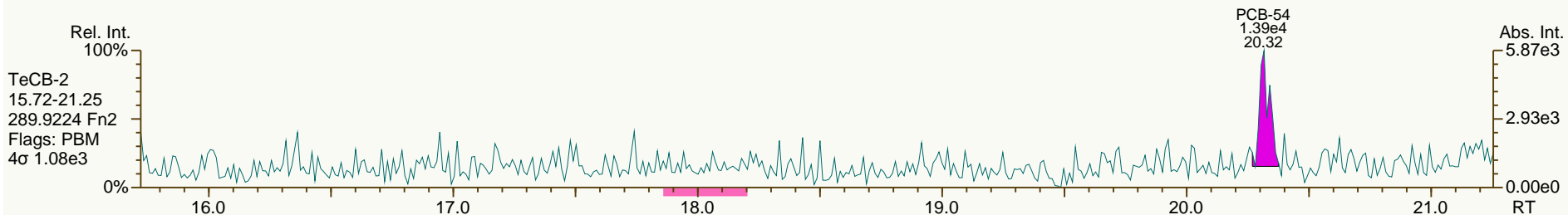
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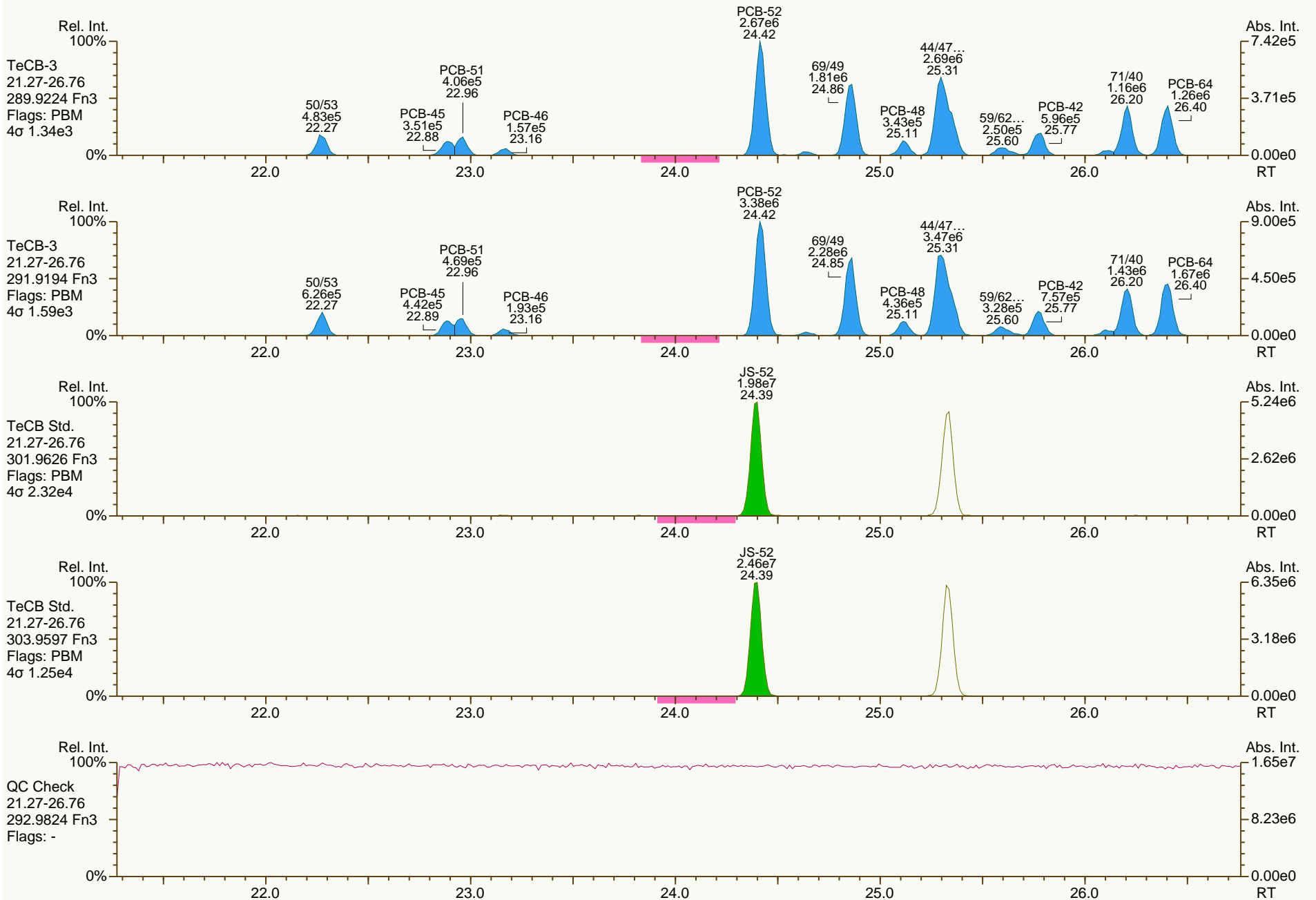




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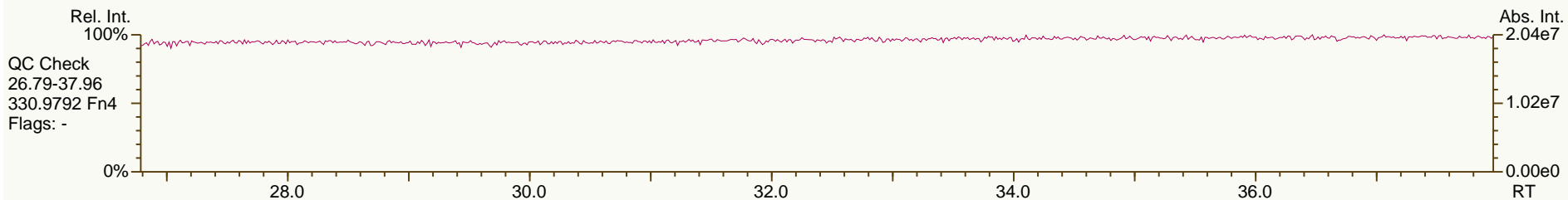
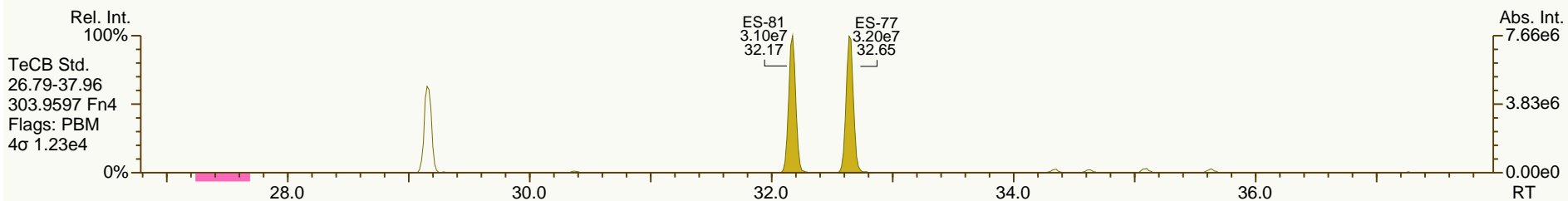
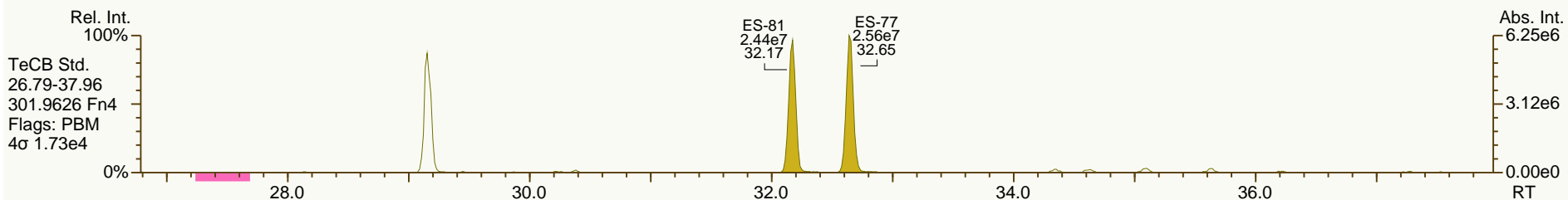
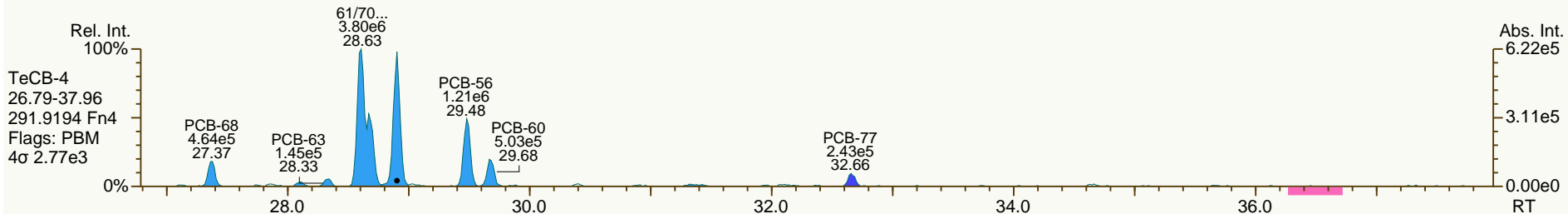
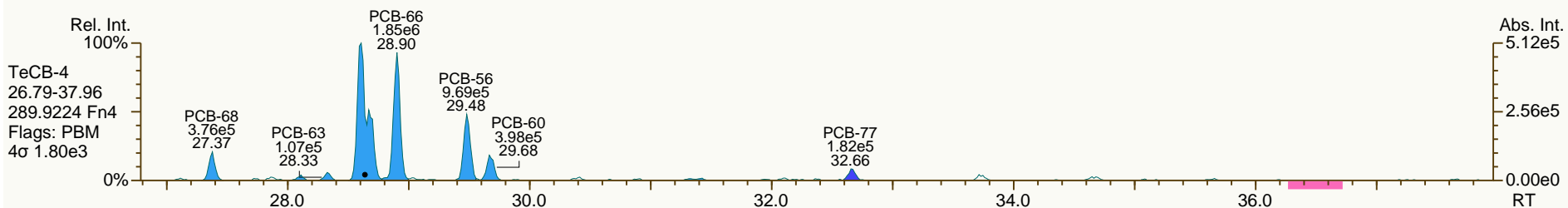
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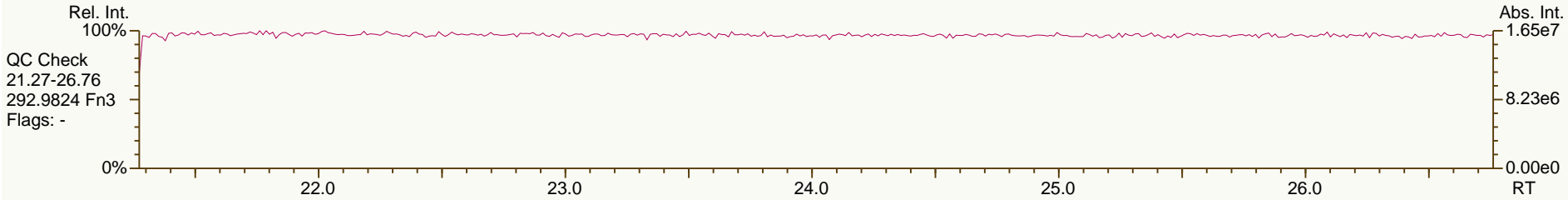
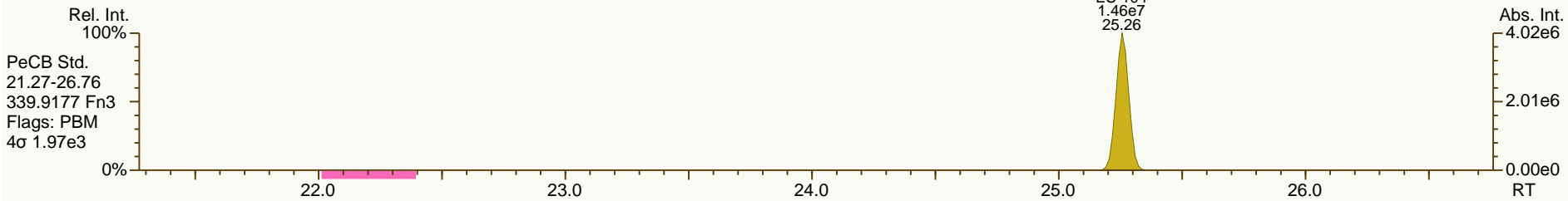
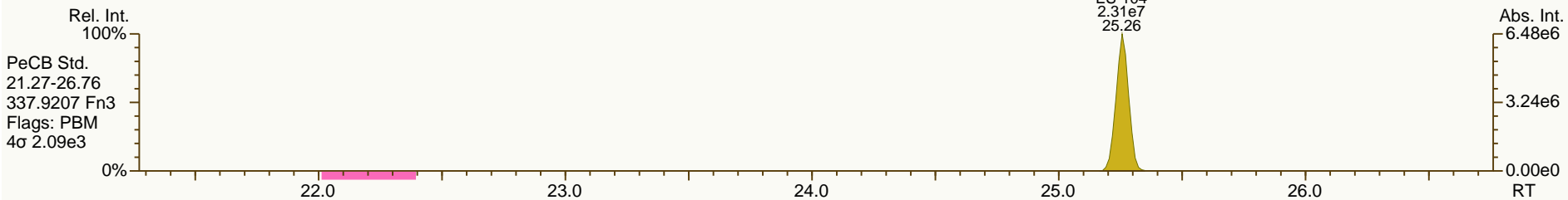
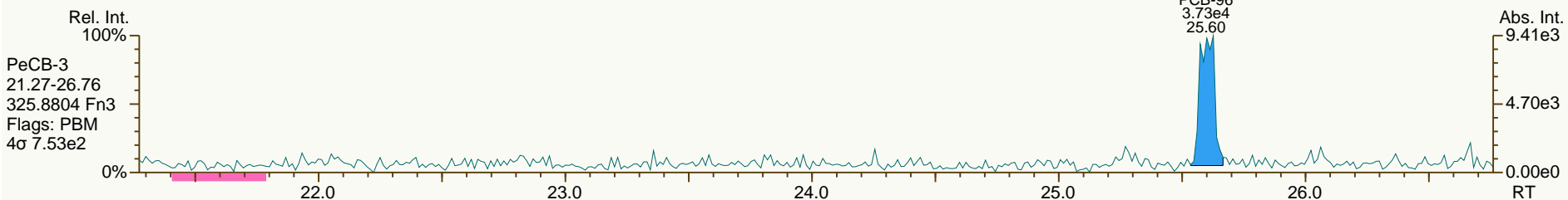
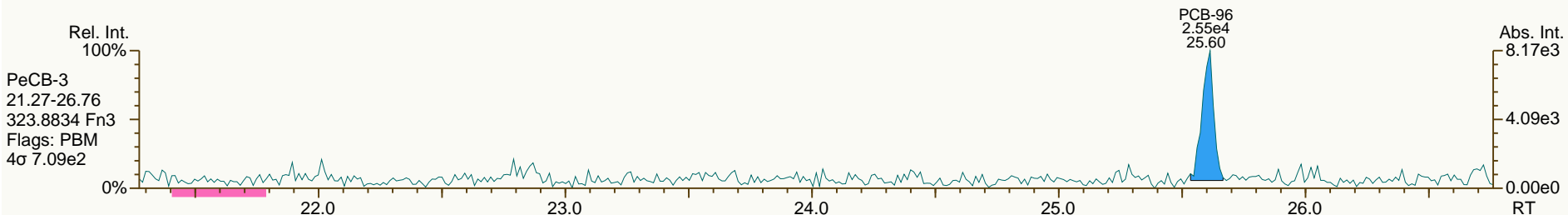
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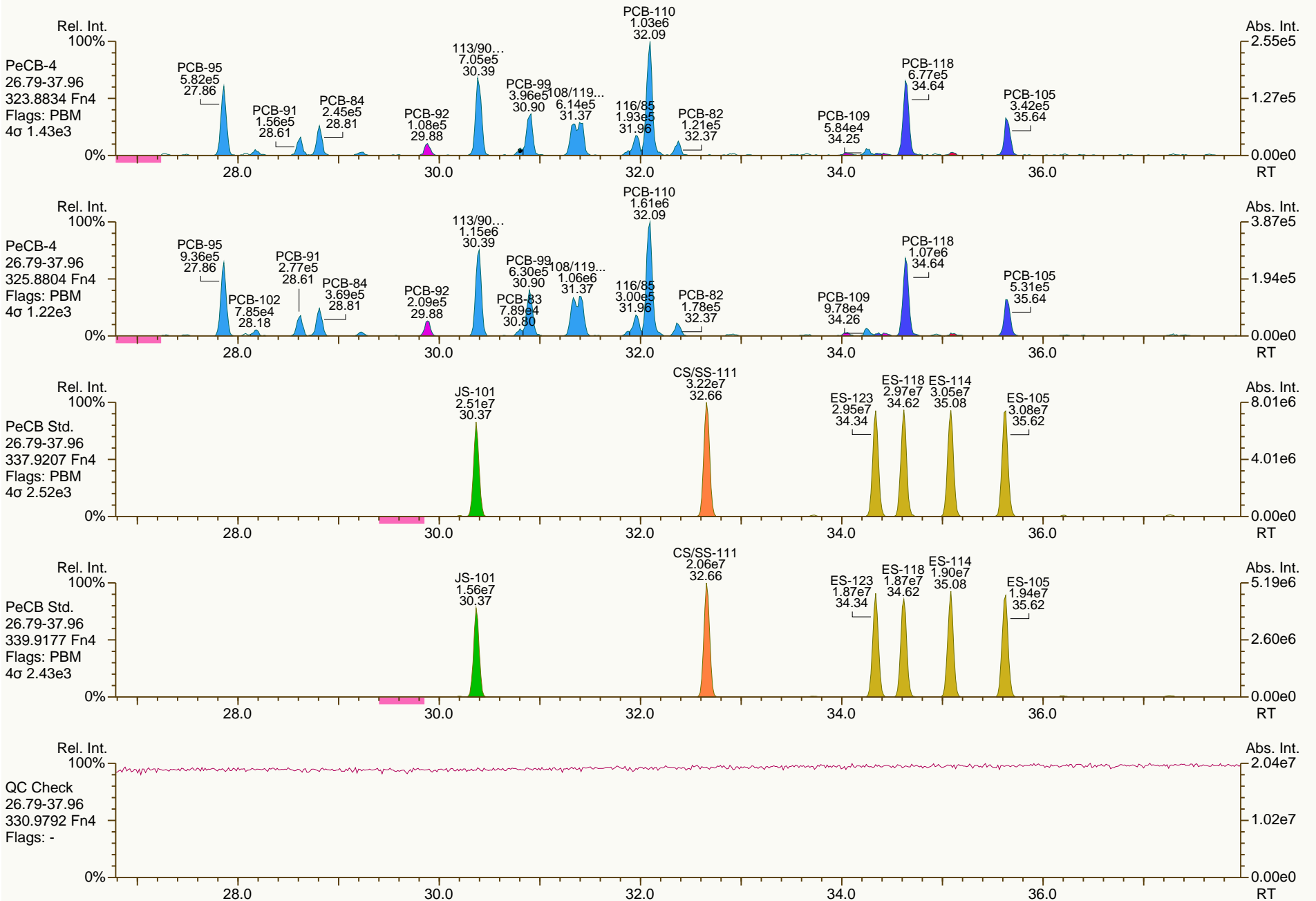
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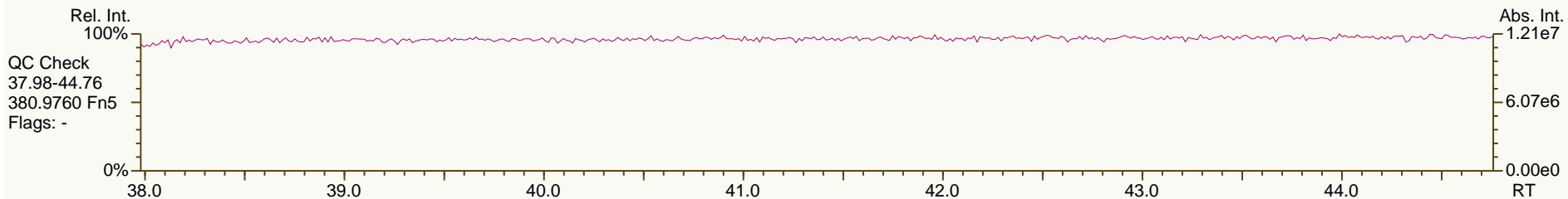
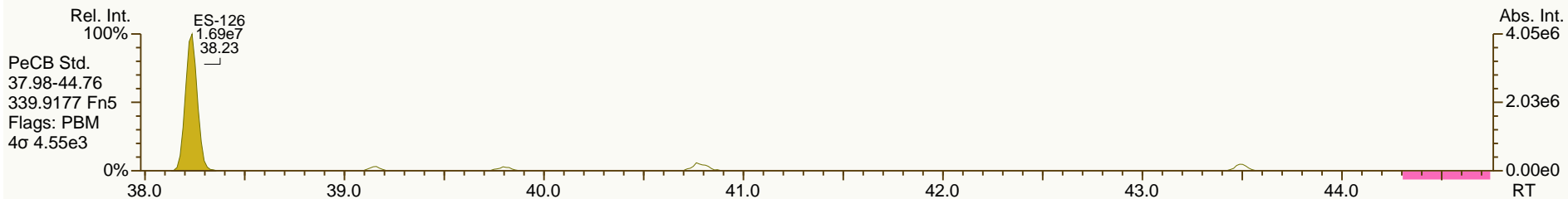
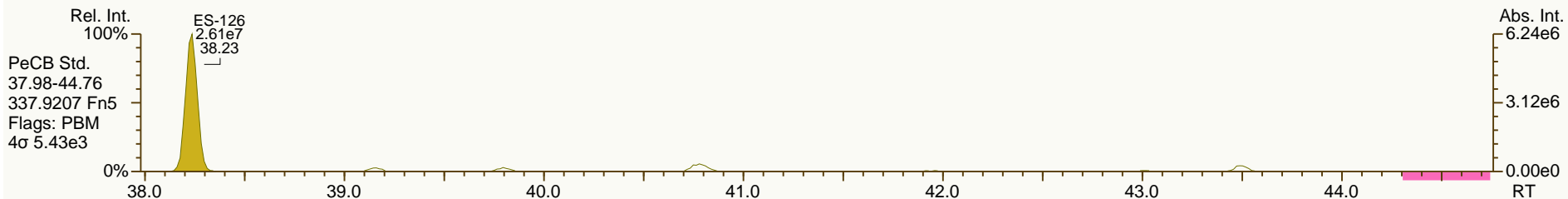
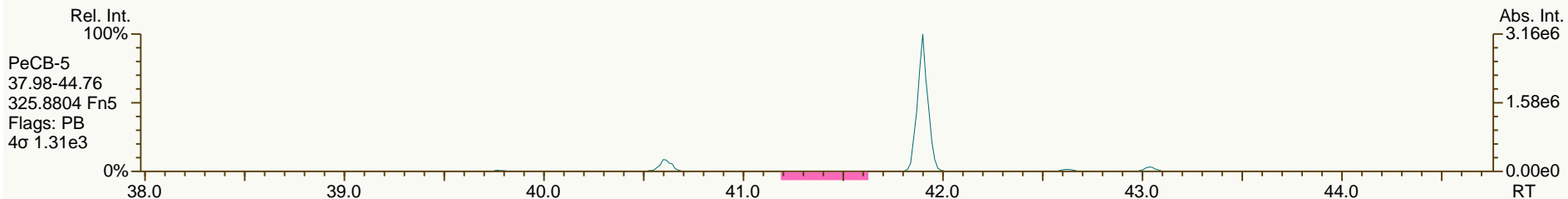
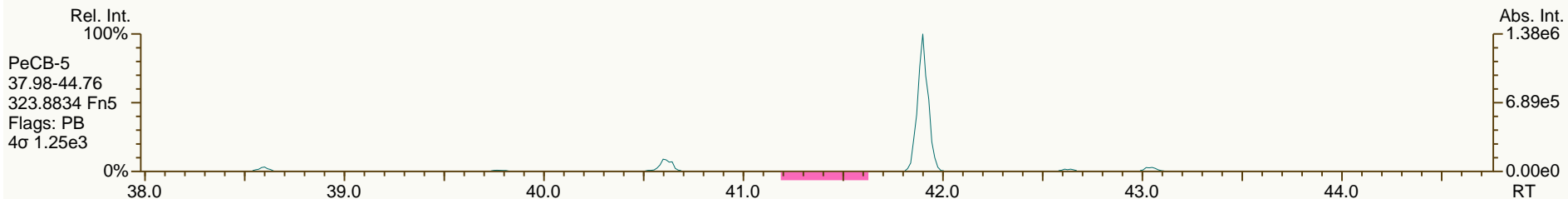
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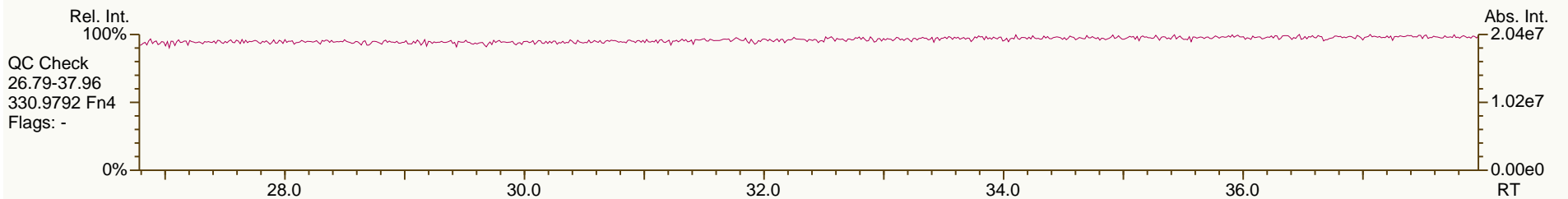
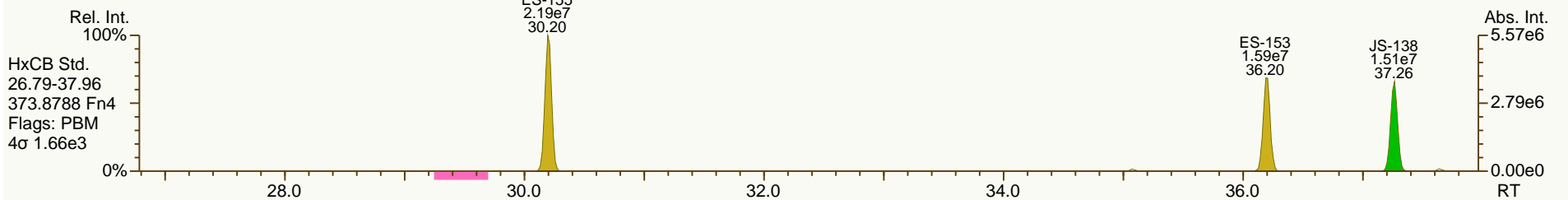
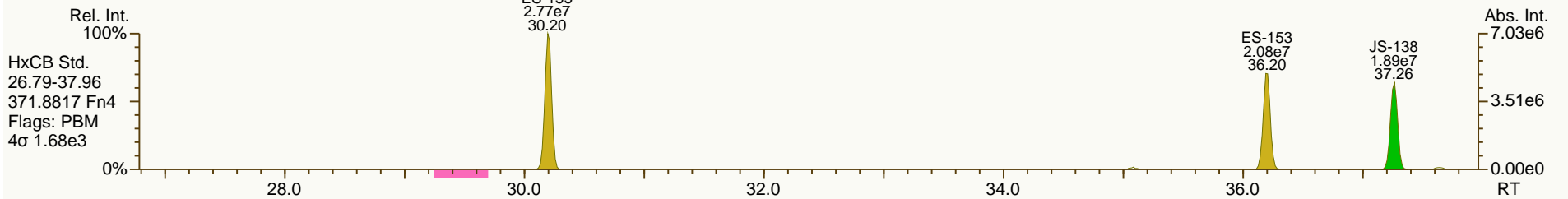
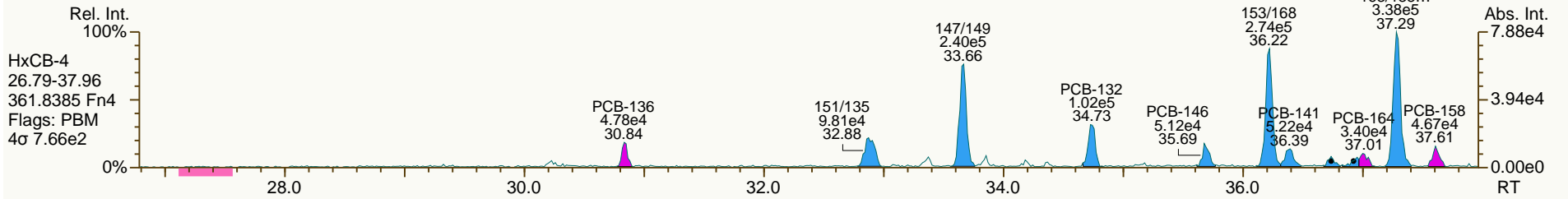
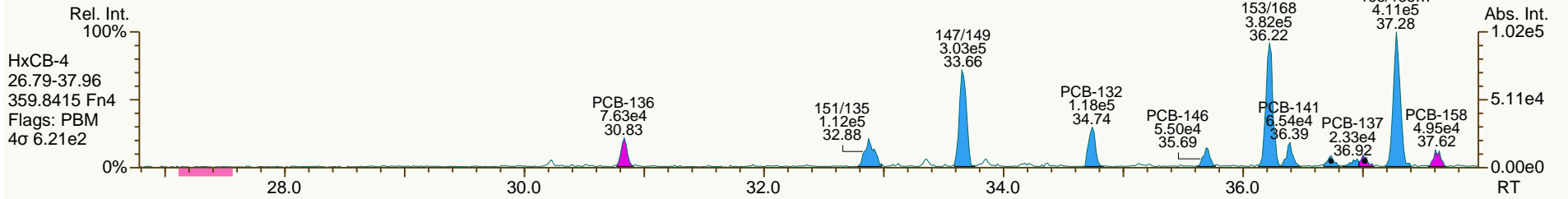
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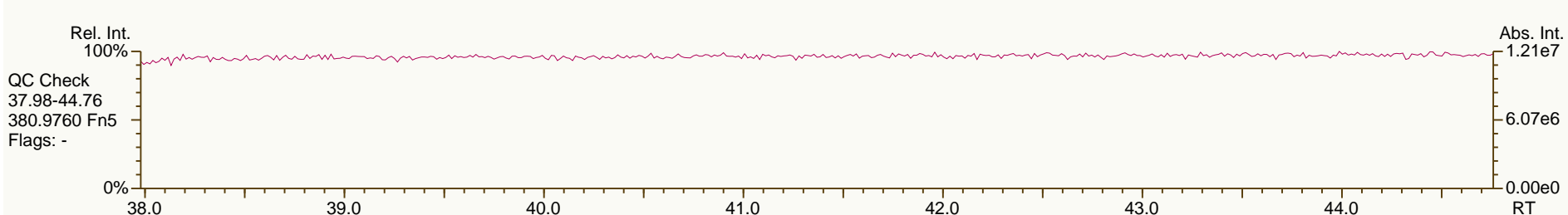
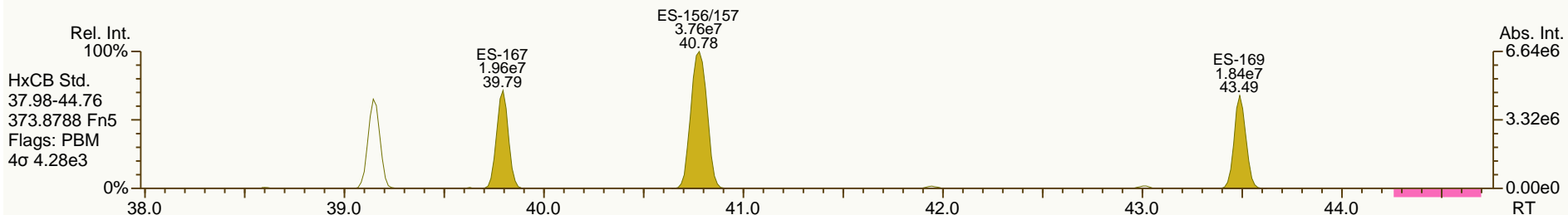
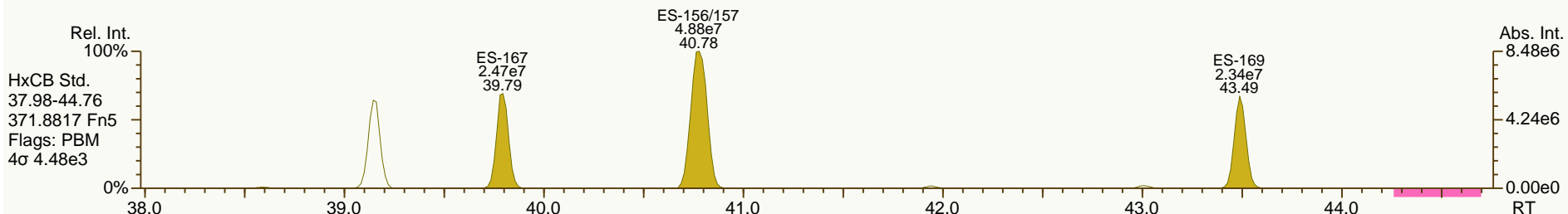
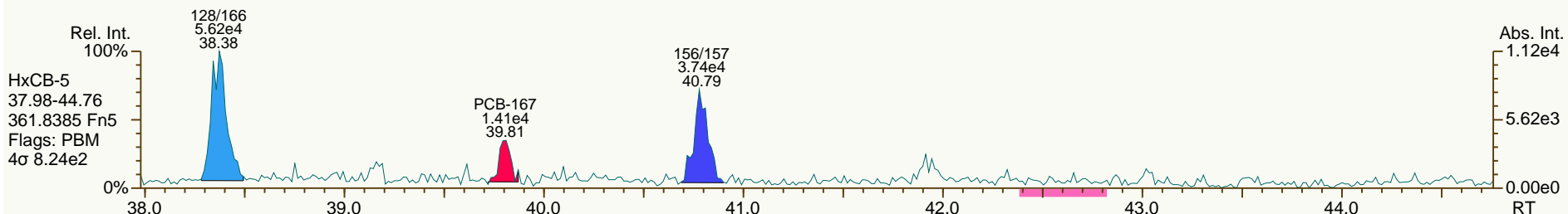
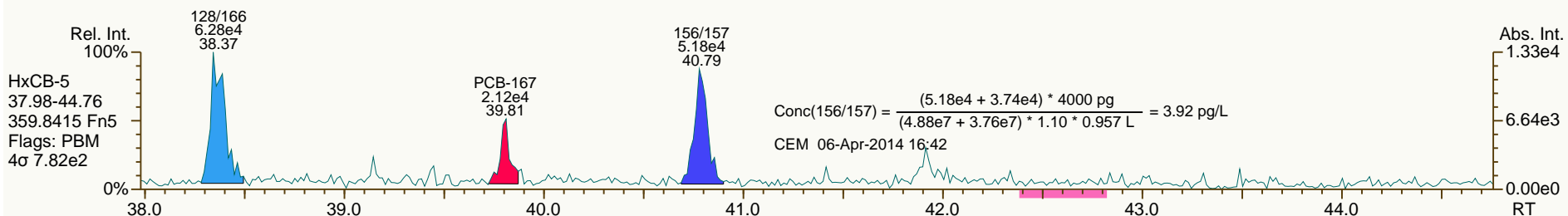
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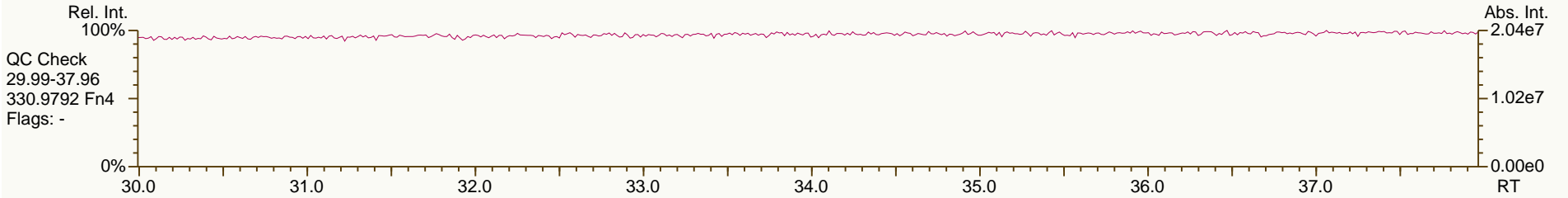
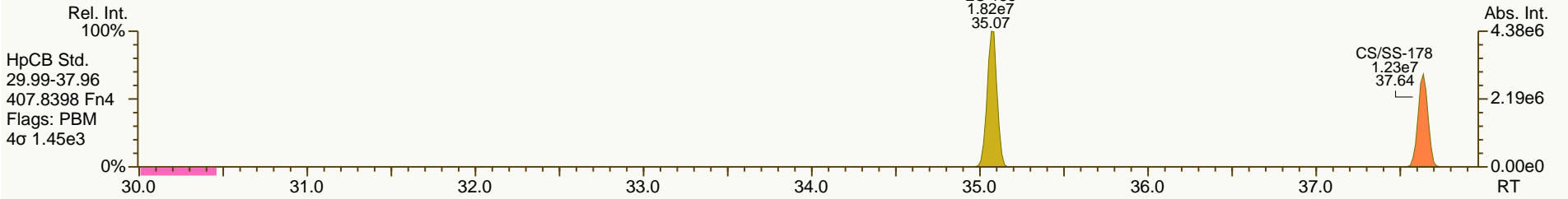
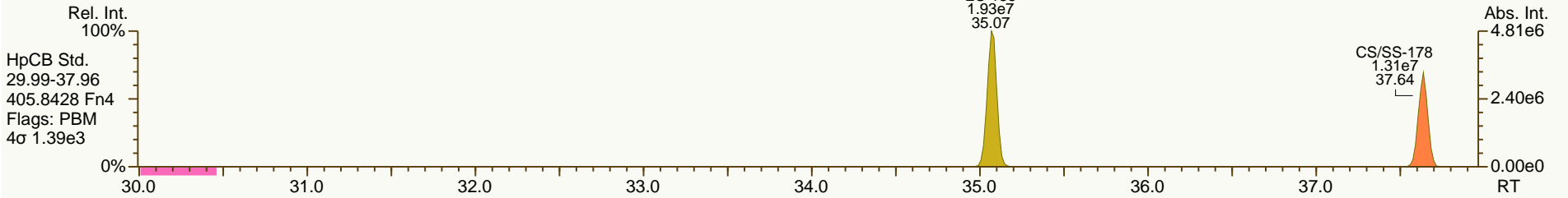
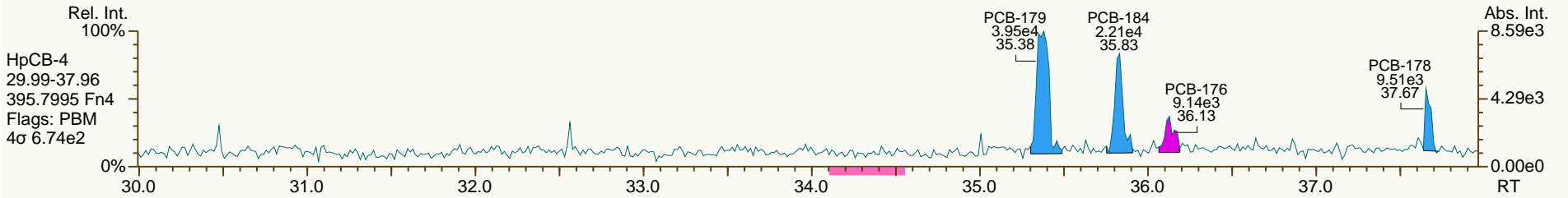
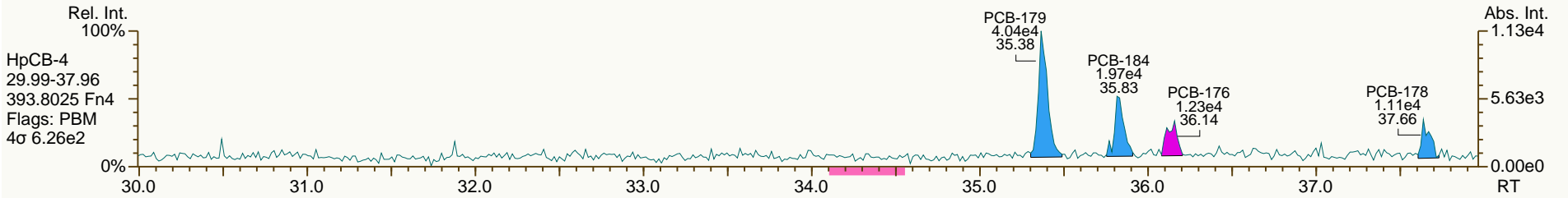
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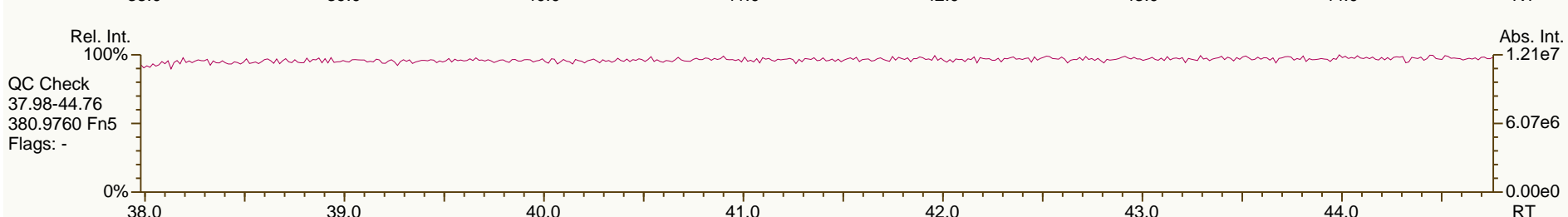
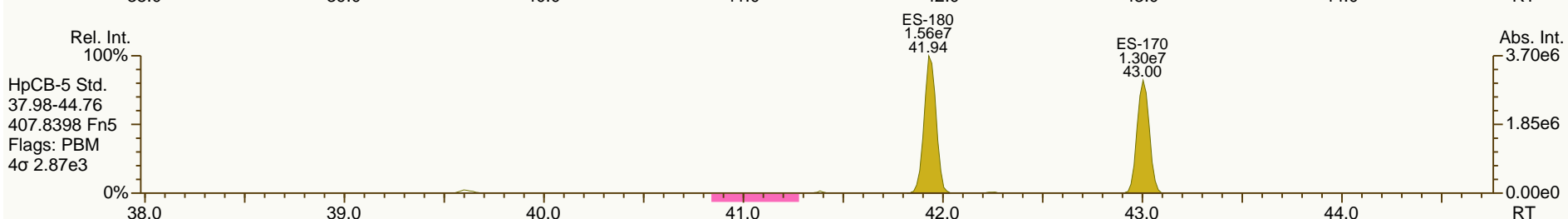
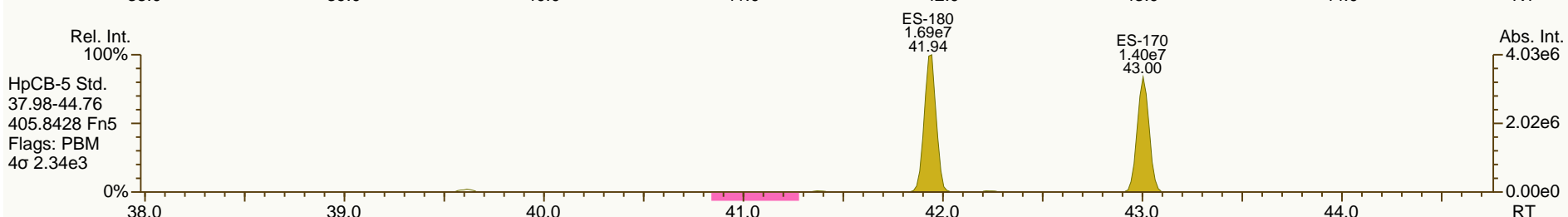
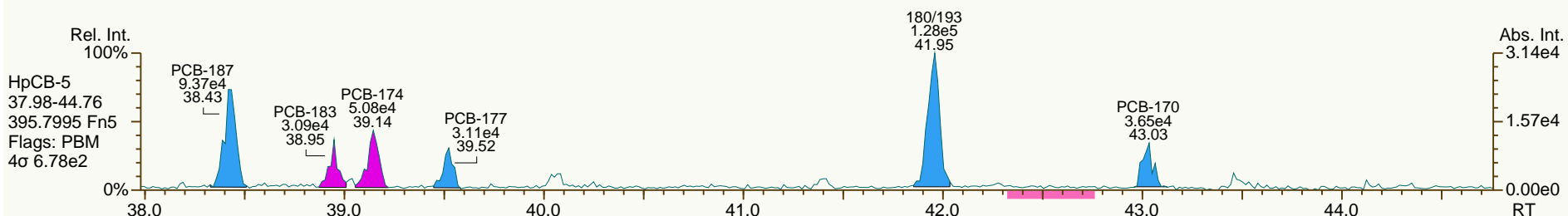
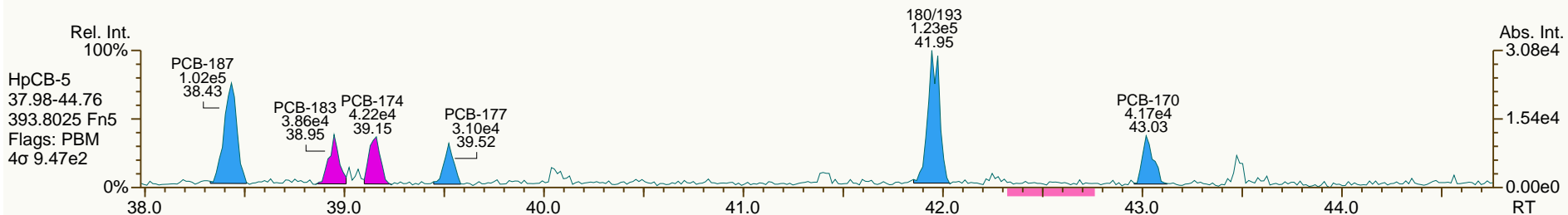




SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

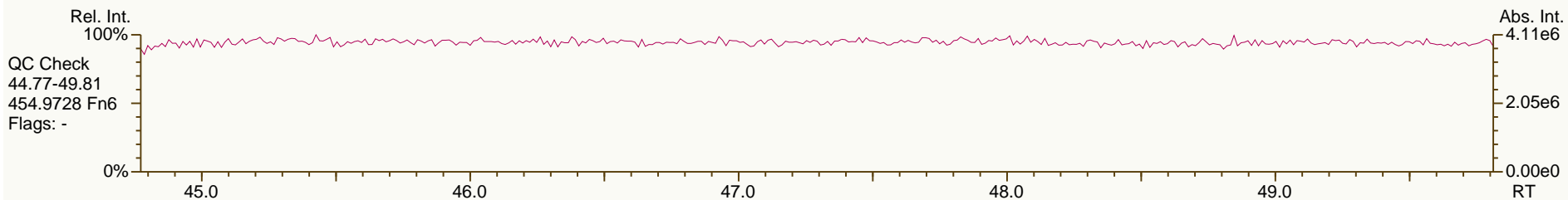
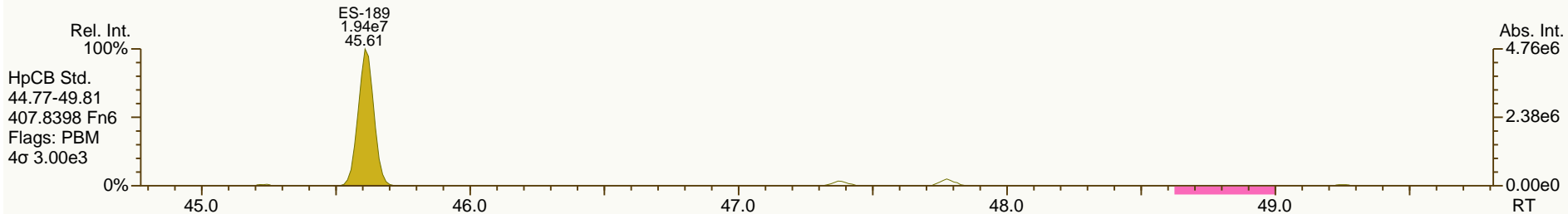
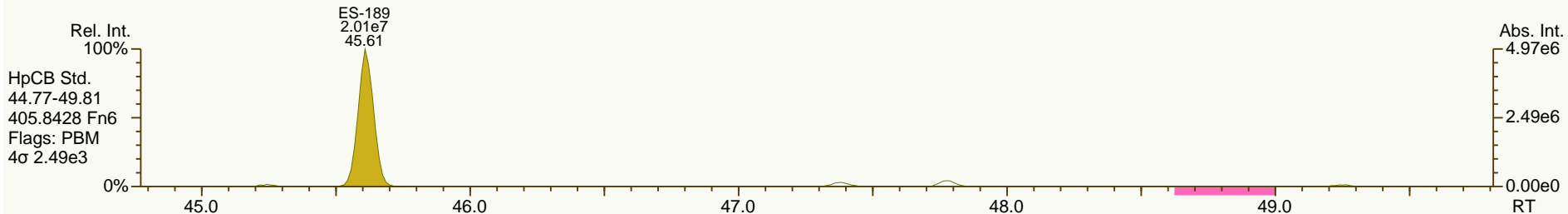
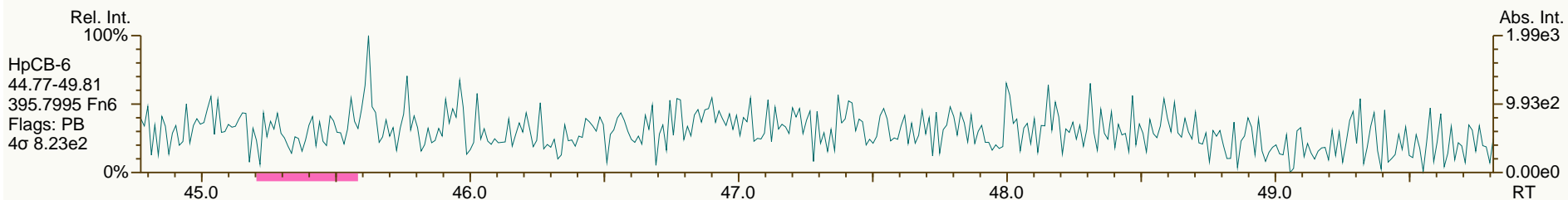
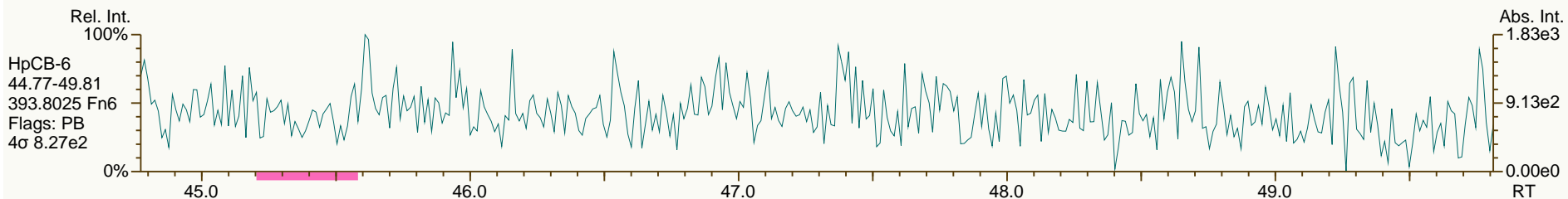
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SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

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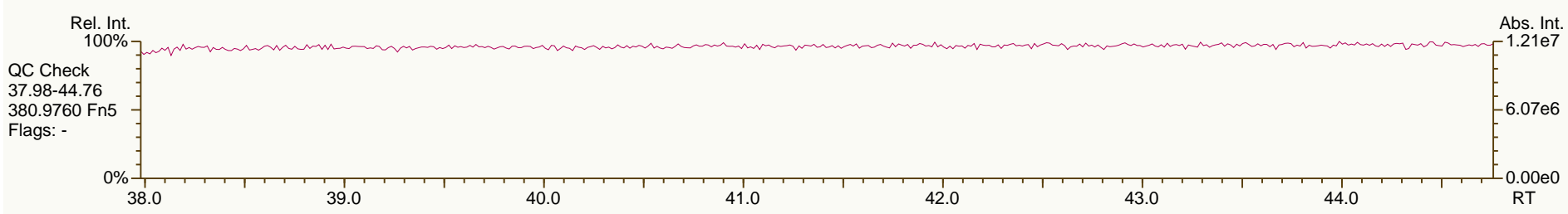
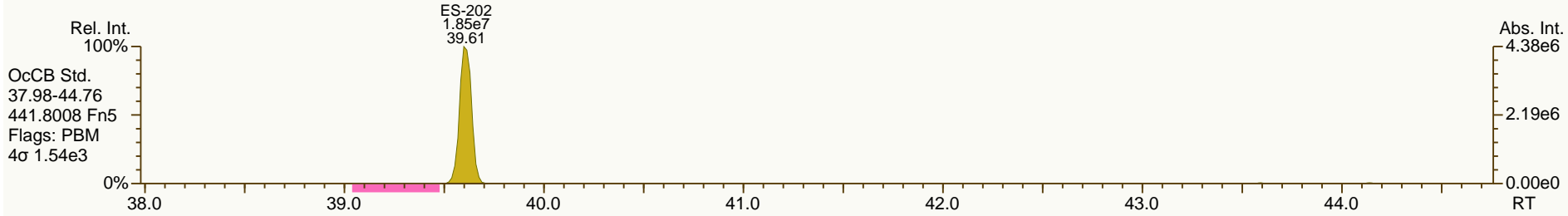
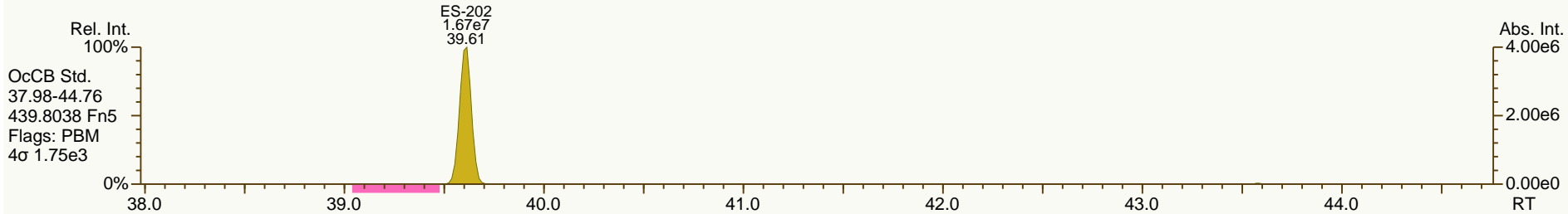
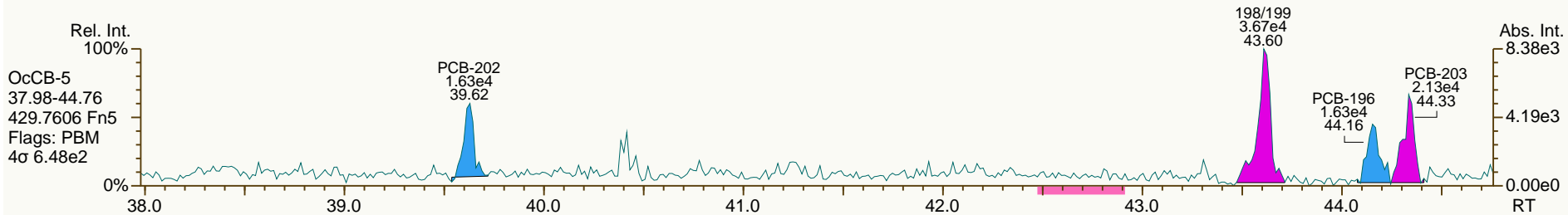
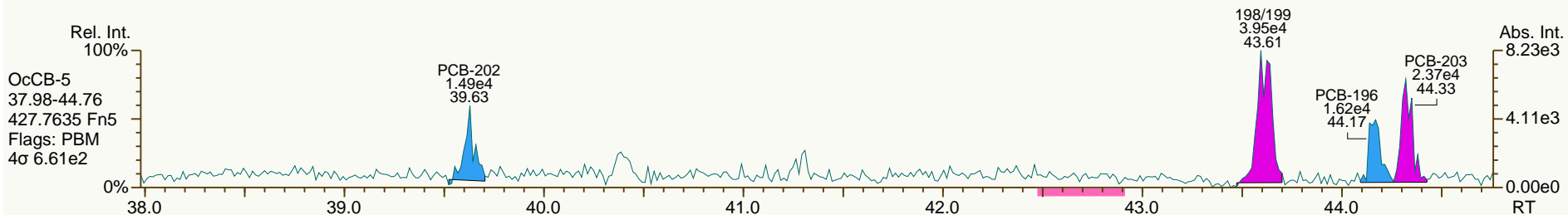
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SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)  
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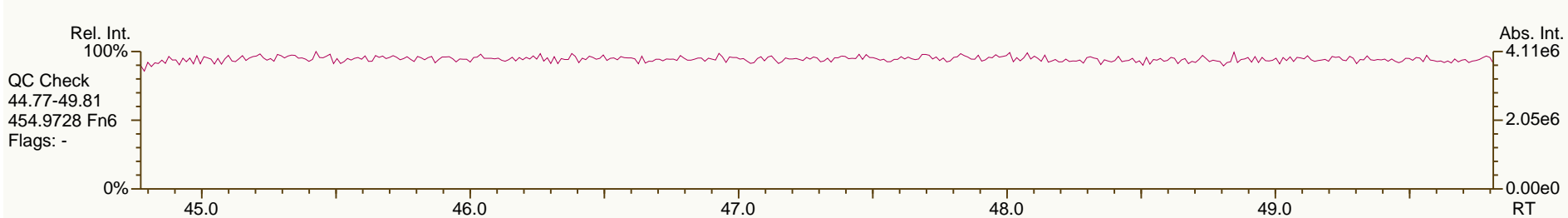
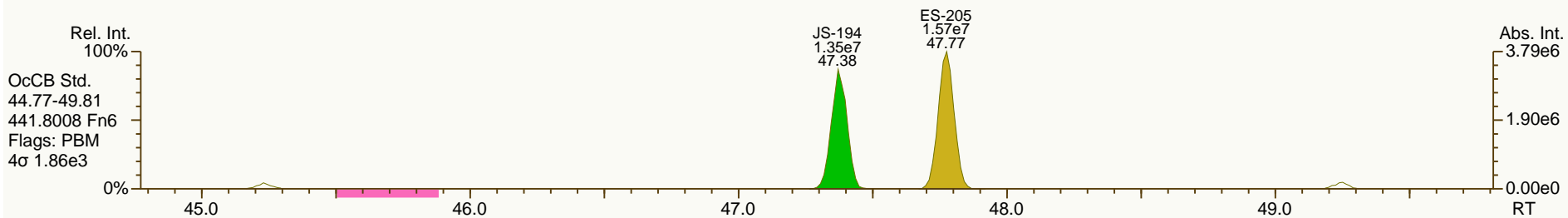
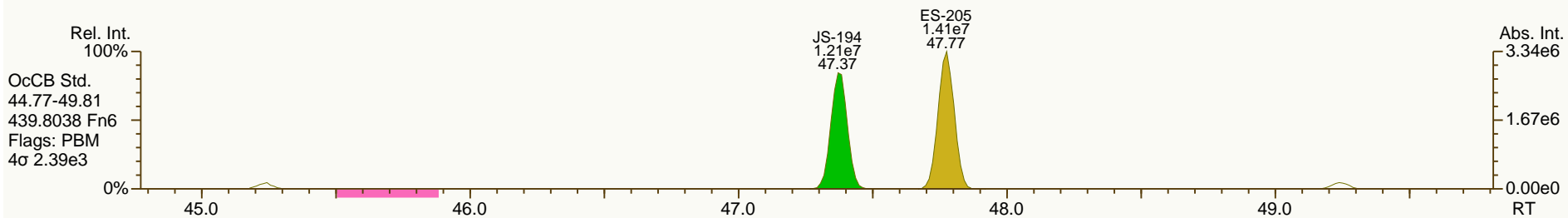
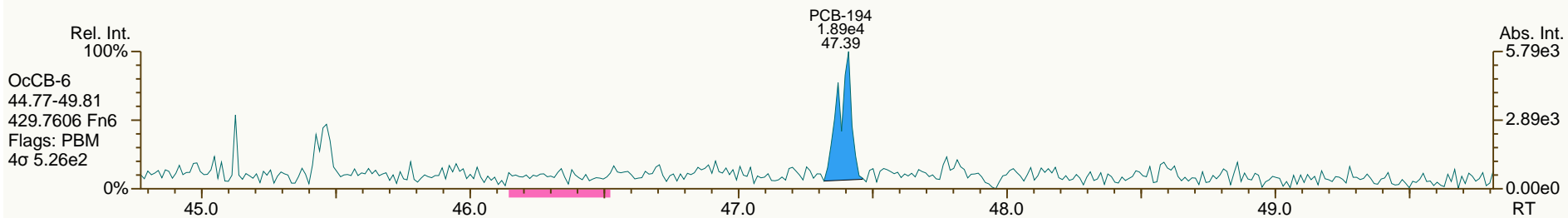
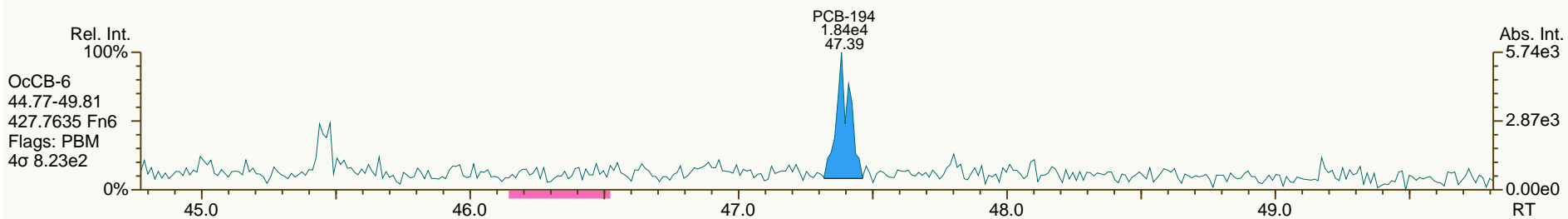
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SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

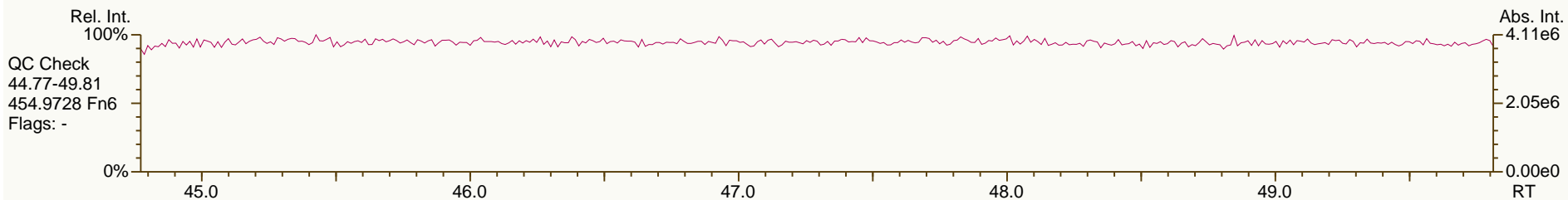
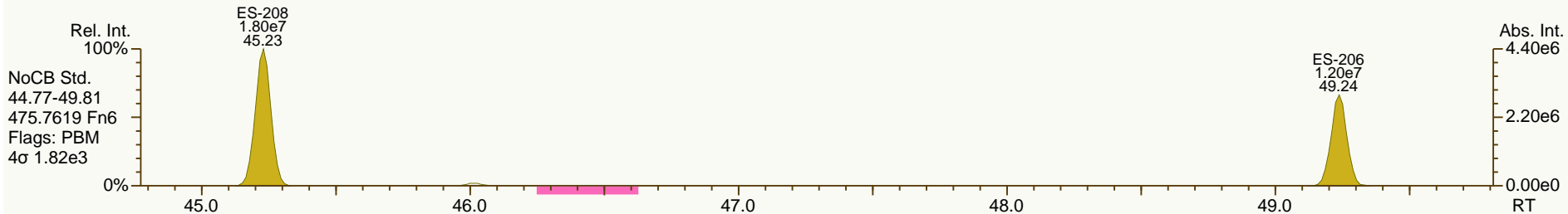
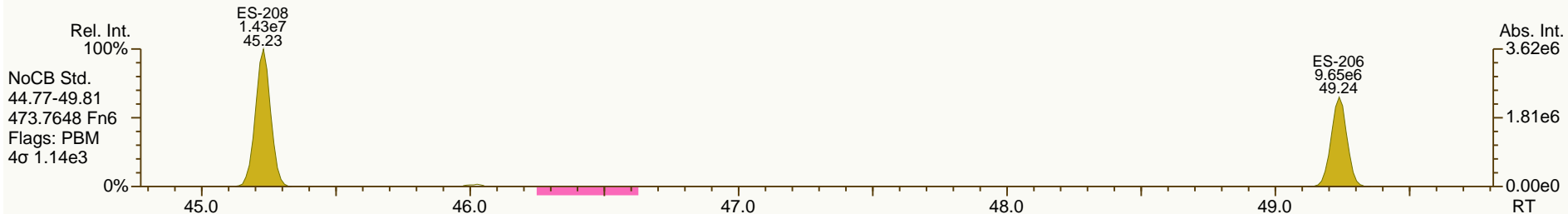
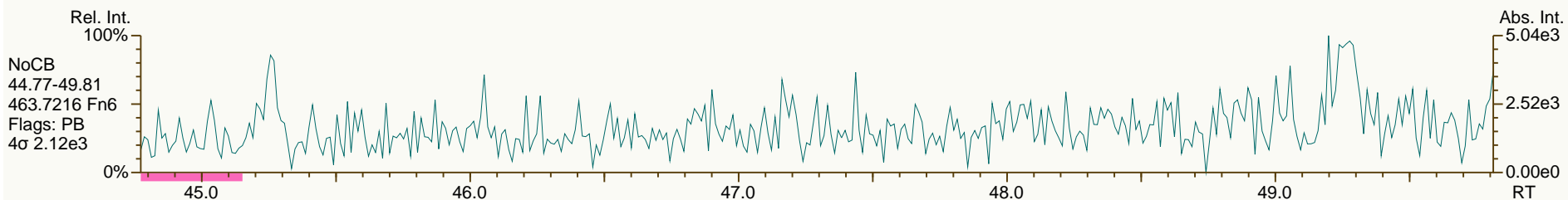
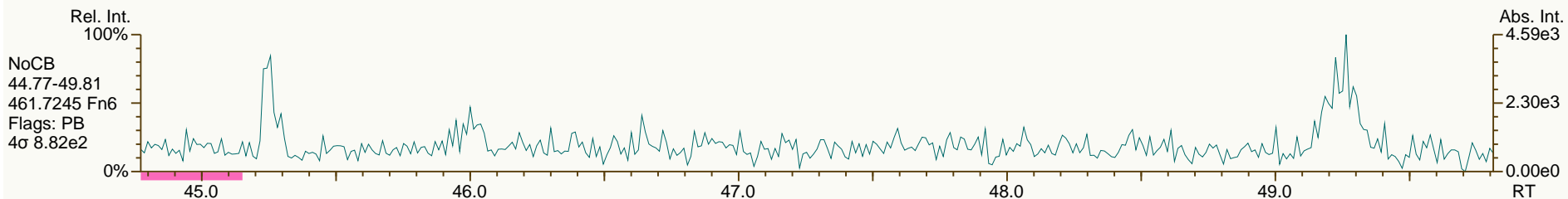
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SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

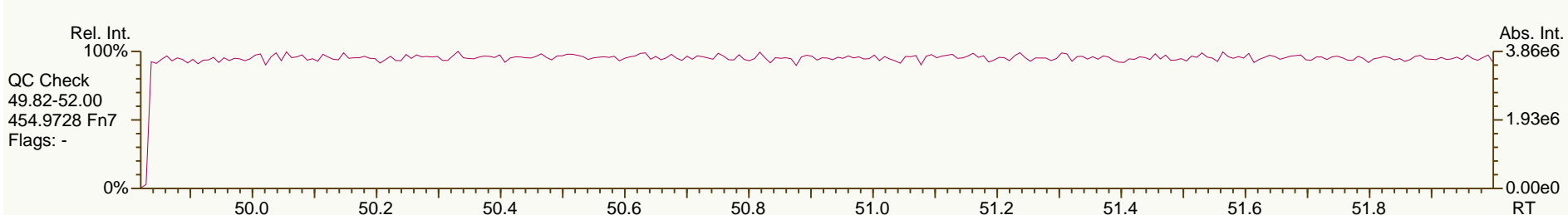
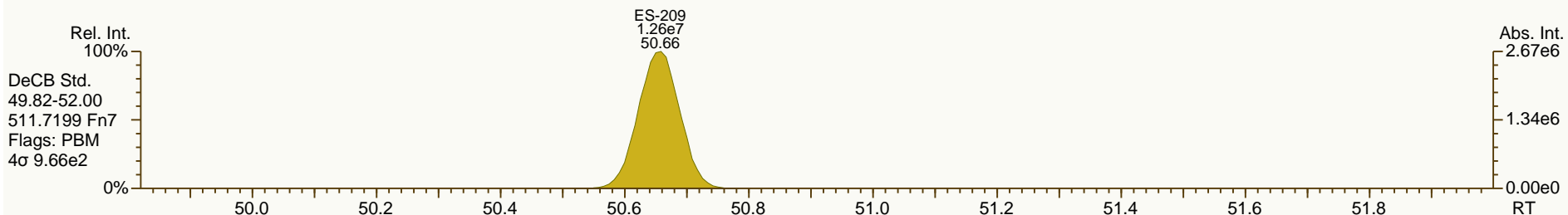
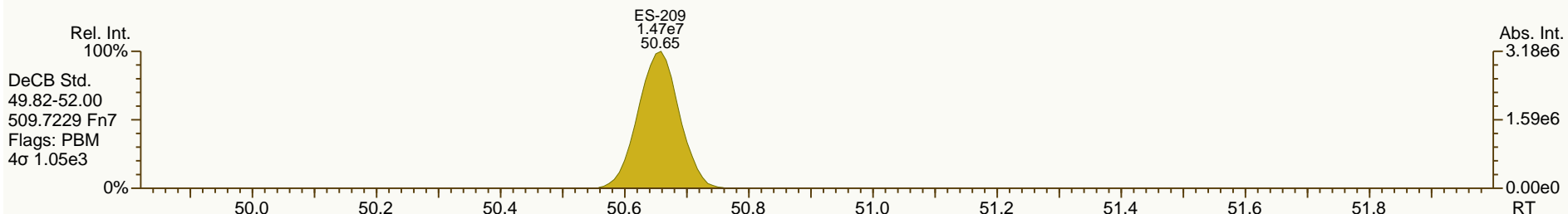
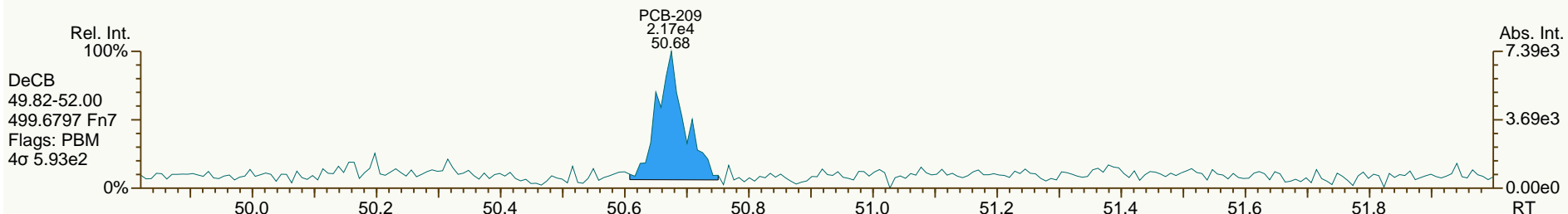
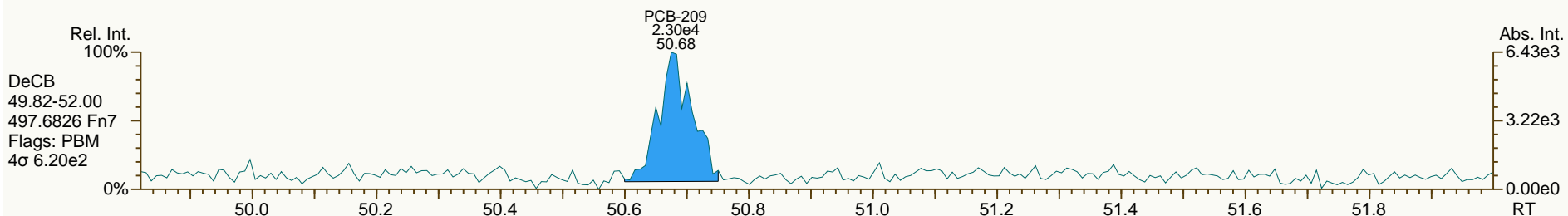
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SGS ID: A6528\_11906\_PCB\_003  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (TOTAL)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 04-Apr-2014 04:34:05  
 User: LKB Datafile: 140403X18



Lab ID: A6528\_11906\_PCB\_004

ACQ: 04-Apr-2014 05:29:13 LKB

Wt/Vol: 1.12 L

ICAL: MM7\_PCB\_10292013\_20DEC2013 CS3\_140403\_PCB\_XC

Client ID: PB101.1-1SWMID-140319-N (DISSOLVED)

UTP: 06-Apr-2014 00:37 CEM

J-level: 8.97 pg/L Split: 1

Checkcode: 118-899-GHZ

Datafile: 140403X19

RPT: 06-Apr-2014 16:20 CM

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.66	J	1.0006	1.0006	0	2.39E+05	0.81	1.15	2.65	3.99E+03	0.455
PCB-81 344'5'-TeCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	3.99E+03	0.483
PCB-105 233'44'-PeCB	35.63	J B	1.0007	1.0005	-0.4	3.42E+05	0.63	1.11	4.55	1.92E+03	0.263
PCB-114 2344'5'-PeCB	35.08	J EMPC	1.0006	1.0001	-1.1	3.51E+04	0.76	1.20	0.442	1.92E+03	0.247
PCB-118 23'44'5'-PeCB	34.63	B	1.0007	1.0007	0	7.92E+05	0.64	1.19	10.2	1.92E+03	0.256
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.21	ND	1.92E+03	0.25
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.11	ND	2.33E+03	0.367
PCB-156/157 ...-HxCB	40.77	J C	1.0005	1.0000	-1.2	4.48E+04	1.26	1.10	0.706	1.45E+03	0.329
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.16	ND	1.45E+03	0.216
PCB-169 33'44'55'-HxCB	NotFnd		1.0004	-		0.00E+00		1.12	ND	1.45E+03	0.238
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.07	ND	1.63E+03	0.31
PCB-209 DeCB	50.67	J B	1.0000	1.0005	+1.5	4.77E+04	1.18	1.11	1.18	1.06E+03	0.306
ES PCB-1	11.80		0.7244	0.7244	0	9.83E+07	3.29	1.19	48.1 %	15%	150%
ES PCB-3	14.08		0.8640	0.8640	0	1.17E+08	3.35	1.09	62.7 %	15%	150%
ES PCB-4	14.33		0.8793	0.8793	0	6.71E+07	1.59	0.52	74.9 %	25%	150%
ES PCB-15	20.01		1.2279	1.2282	+0.4	1.78E+08	1.58	1.04	99.9 %	25%	150%
ES PCB-19	17.39		1.0674	1.0674	0	7.03E+07	1.06	0.51	81.1 %	25%	150%
ES PCB-37	26.32		1.0793	1.0793	0	1.55E+08	1.10	1.66	89.4 %	25%	150%
ES PCB-54	20.29		0.8322	0.8321	-0.1	9.05E+07	0.79	0.86	100 %	25%	150%
ES PCB-77	32.64		1.3381	1.3384	+0.6	1.40E+08	0.80	1.38	96.9 %	25%	150%
ES PCB-81	32.16		1.3186	1.3189	+0.6	1.35E+08	0.81	1.37	94.3 %	25%	150%
ES PCB-104	25.25		0.8317	0.8317	0	9.41E+07	1.60	0.80	123 %	25%	150%
ES PCB-105	35.61		1.1729	1.1730	+0.2	1.21E+08	1.61	1.20	106 %	25%	150%
ES PCB-114	35.07		1.1551	1.1552	+0.2	1.18E+08	1.60	1.22	102 %	25%	150%
ES PCB-118	34.61		1.1398	1.1399	+0.2	1.17E+08	1.61	1.16	106 %	25%	150%
ES PCB-123	34.33		1.1306	1.1306	0	1.16E+08	1.56	1.19	103 %	25%	150%
ES PCB-126	38.22		1.2588	1.2590	+0.5	1.06E+08	1.58	1.03	109 %	25%	150%
ES PCB-153	36.19		0.9715	0.9715	0	8.57E+07	1.31	1.11	99.6 %	25%	150%
ES PCB-155	30.19		0.8106	0.8105	-0.2	1.19E+08	1.28	1.59	94.3 %	25%	150%
ES PCB-156/157	40.77		1.0943	1.0944	+0.2	2.07E+08	1.28	1.60	81.5 %	25%	150%
ES PCB-167	39.79		1.0679	1.0680	+0.2	1.08E+08	1.26	1.67	81.2 %	25%	150%
ES PCB-169	43.48		1.1671	1.1673	+0.5	1.03E+08	1.25	1.56	83 %	25%	150%
ES PCB-170	43.00		0.9078	0.9077	-0.3	6.57E+07	1.08	0.95	100 %	25%	150%
ES PCB-180	41.93		0.8852	0.8852	0	7.83E+07	1.06	1.14	101 %	25%	150%
ES PCB-188	35.06		0.7404	0.7403	-0.2	9.08E+07	1.07	0.94	121 %	25%	150%
ES PCB-189	45.60		0.9628	0.9628	0	9.42E+07	1.05	1.58	102 %	25%	150%
ES PCB-202	39.60		0.8361	0.8360	-0.2	8.37E+07	0.93	0.97	109 %	25%	150%
ES PCB-205	47.77		1.0084	1.0084	0	7.17E+07	0.89	1.24	98.6 %	25%	150%
ES PCB-206	49.23		1.0393	1.0393	0	5.10E+07	0.80	0.83	105 %	25%	150%
ES PCB-208	45.22		0.9547	0.9547	0	7.76E+07	0.80	1.17	113 %	25%	150%
ES PCB-209	50.65		1.0692	1.0692	0	6.53E+07	1.18	1.11	101 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.77		0.9337	0.9337	0	1.76E+08	1.10	1.11	102 %	30%	135%
SS PCB-111	32.65		1.0754	1.0754	0	1.27E+08	1.58	1.03	107 %	30%	135%
SS PCB-178	37.63		1.0101	1.0101	0	5.90E+07	1.07	0.62	105 %	30%	135%
CS PCB-28	22.77		0.9337	0.9337	0	1.76E+08	1.10	1.85	91 %	30%	135%
CS PCB-111	32.65		1.0754	1.0754	0	1.27E+08	1.58	1.22	109 %	30%	135%
CS PCB-178	37.63		1.0101	1.0101	0	5.90E+07	1.07	0.58	127 %	30%	135%
JS PCB-9	16.29					1.71E+08	1.58				
JS PCB-52	24.39					1.05E+08	0.81				
JS PCB-101	30.36					9.50E+07	1.57				
JS PCB-138	37.25					7.95E+07	1.29				
JS PCB-194	47.37					5.85E+07	0.90				
			<b>Totals</b>			<b>NON-EMPC</b>		<b>EMPC</b>		<b>DL</b>	
			Mono-CBs			20.5		20.5		0.547	
			Di-CBs			141		141		0.704	
			Tri-CBs			462		462		0.955	
			Tetra-CBs			529		530		0.437	
			Penta-CBs			124		127		0.264	
			Hexa-CBs			29		32.9		0.243	
			Hepta-CBs			9.02		10.9		0.344	
			Octa-CBs			0.857		1.96		0.287	
			Nona-CBs			0		0		0.718	
PCB-1 2-MoCB	11.82		1.0011	1.0011	0	5.91E+05	3.34	0.95	11.3	4.68E+03	0.576
PCB-2 3-MoCB	13.91	J	0.9880	0.9882	+0.2	1.87E+05	2.89	1.15	2.49	4.68E+03	0.453
PCB-3 4-MoCB	14.09	J	1.0009	1.0010	+0.1	4.40E+05	2.94	1.01	6.69	4.68E+03	0.518
PCB-4 22'-DiCB	14.34		1.0011	1.0011	0	2.44E+06	1.57	1.23	52.8	5.67E+03	0.897
PCB-10 26-DiCB	14.52	J	1.0135	1.0135	0	1.39E+05	SI	1.88	1.97	5.67E+03	0.589
PCB-9 25-DiCB	16.31	J	1.0010	1.0008	-0.2	1.98E+05	SI	0.97	2.05	5.79E+03	0.535
PCB-7 24-DiCB	16.48	J	1.0111	1.0113	+0.2	1.51E+05	SI	1.11	1.37	5.79E+03	0.47
PCB-6 23'-DiCB	16.70		1.0250	1.0250	0	2.18E+06	1.60	1.04	21.1	5.79E+03	0.5
PCB-5 23-DiCB	NotFnd		1.0435	-		0.00E+00		1.03	ND	5.79E+03	0.504
PCB-8 24'-DiCB	17.12		1.0507	1.0509	+0.2	2.10E+06	1.66	1.06	19.9	5.79E+03	0.49
PCB-14 35-DiCB	NotFnd		0.9331	-		0.00E+00		1.23	ND	5.79E+03	0.422
PCB-11 33'-DiCB	19.45	B	0.9720	0.9721	+0.1	2.32E+06	1.62	1.06	22	5.79E+03	0.491
PCB-13/12 34' /34-DiCB	19.73	J C	0.9866	0.9857	-1.1	8.24E+05	1.35	1.06	7.84	5.79E+03	0.491
PCB-15 44'-DiCB	20.02		1.0008	1.0006	-0.2	1.23E+06	1.50	1.02	12.2	5.79E+03	0.51
PCB-19 22'6-TrCB	17.41		1.0010	1.0010	0	1.08E+06	1.07	1.15	24	5.88E+03	1.11
PCB-30/18 246/22'5-TrCB	19.17	C	1.1017	1.1022	+0.6	5.61E+06	1.03	1.51	95	5.88E+03	0.843
PCB-17 22'4-TrCB	19.56		1.1247	1.1248	+0.1	2.16E+06	1.01	1.27	43.4	5.88E+03	1
PCB-27 23'6-TrCB	19.75	J	1.1357	1.1358	+0.1	5.92E+05	1.12	1.77	8.51	5.88E+03	0.717
PCB-24 236-TrCB	19.88	J	1.1435	1.1429	-0.7	7.85E+04	1.16	1.72	1.16	5.88E+03	0.739
PCB-16 22'3-TrCB	19.98		1.1489	1.1490	+0.1	1.41E+06	1.09	0.94	38.4	5.88E+03	1.36



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.46		1.1763	1.1766	+0.4	3.14E+06	1.03	1.88	42.7	5.88E+03	0.677
PCB-34 23'5'-TrCB	NotFnd		0.8211	-		0.00E+00		1.24	ND	7.42E+03	0.696
PCB-23 235-TrCB	NotFnd		0.8268	-		0.00E+00		1.26	ND	7.42E+03	0.687
PCB-26/29 23'5'/245-TrCB	22.02	C	0.8375	0.8366	-1.2	2.10E+06	0.97	1.28	19	7.42E+03	0.678
PCB-25 23'4-TrCB	22.24		0.8451	0.8449	-0.3	2.73E+06	0.99	1.30	24.2	7.42E+03	0.665
PCB-31 24'5-TrCB	22.52		0.8556	0.8556	0	6.61E+06	0.99	1.34	56.9	7.42E+03	0.646
PCB-28/20 244'/233'-TrCB	22.79	C	0.8663	0.8660	-0.4	7.14E+06	1.01	1.24	66.4	7.42E+03	0.698
PCB-21/33 234/23'4'-TrCB	23.00	J C	0.8732	0.8739	+1.0	1.49E+06	1.00	1.29	13.3	7.42E+03	0.671
PCB-22 234'-TrCB	23.36		0.8875	0.8874	-0.1	1.97E+06	1.04	1.19	19.1	7.42E+03	0.727
PCB-36 33'5-TrCB	NotFnd		0.9397	-		0.00E+00		1.34	ND	7.42E+03	0.644
PCB-39 34'5-TrCB	NotFnd		0.9520	-		0.00E+00		1.35	ND	7.42E+03	0.641
PCB-38 345-TrCB	NotFnd		0.9721	-		0.00E+00		1.21	ND	7.42E+03	0.713
PCB-35 33'4-TrCB	NotFnd		0.9871	-		0.00E+00		1.17	ND	7.42E+03	0.738
PCB-37 344'-TrCB	26.35		1.0008	1.0011	+0.5	8.90E+05	1.10	1.08	9.52	7.42E+03	0.802
PCB-54 22'66'-TeCB	20.31	J EMPC	1.0010	1.0008	-0.2	3.71E+04	1.02	1.35	0.544	2.19E+03	0.282
PCB-50/53 22'46/22'56'-TeCB	22.27	C	0.9141	0.9131	-1.3	1.36E+06	0.79	0.91	20	3.21E+03	0.48
PCB-45 22'36-TeCB	22.88		0.9381	0.9381	0	9.88E+05	0.76	0.75	17.5	3.21E+03	0.578
PCB-51 22'46'-TeCB	22.95		0.9410	0.9411	+0.1	1.83E+06	0.78	0.95	25.4	3.21E+03	0.456
PCB-46 22'36'-TeCB	23.16	J	0.9497	0.9497	0	4.31E+05	0.83	0.73	7.87	3.21E+03	0.597
PCB-52 22'55'-TeCB	24.41		1.0009	1.0009	0	6.09E+06	0.77	0.89	90.6	3.21E+03	0.486
PCB-73 23'5'6-TeCB	NotFnd		1.0062	-		0.00E+00		1.15	ND	3.21E+03	0.378
PCB-43 22'35-TeCB	24.64	J	1.0102	1.0103	+0.1	1.70E+05	0.75	0.72	3.16	3.21E+03	0.607
PCB-69/49 23'46/22'45'-TeCB	24.85	C	1.0181	1.0190	+1.3	3.58E+06	0.78	1.09	43.8	3.21E+03	0.401
PCB-48 22'45-TeCB	25.11		1.0296	1.0296	0	7.16E+05	0.81	0.89	10.7	3.21E+03	0.488
PCB-44/47/65 ...-TeCB	25.30	C	1.0385	1.0376	-1.4	5.95E+06	0.81	0.96	82.7	3.21E+03	0.456
PCB-59/62/75 ...-TeCB	25.59	J C	1.0498	1.0494	-0.6	5.54E+05	0.79	1.25	5.89	3.21E+03	0.348
PCB-42 22'34'-TeCB	25.77		1.0566	1.0566	0	1.21E+06	0.79	0.82	19.8	3.21E+03	0.534
PCB-41 22'34-TeCB	26.10	J	1.0702	1.0701	-0.2	2.49E+05	0.76	0.72	4.58	3.21E+03	0.602
PCB-71/40 23'4'6/22'33'-TeCB	26.20	C	1.0741	1.0743	+0.3	2.48E+06	0.76	0.92	35.7	3.21E+03	0.472
PCB-64 234'6-TeCB	26.39		1.0823	1.0823	0	2.72E+06	0.77	1.33	27.2	3.21E+03	0.327
PCB-72 23'55'-TeCB	NotFnd		0.8429	-		0.00E+00		1.23	ND	3.99E+03	0.438
PCB-68 23'45'-TeCB	27.36		0.8509	0.8509	0	2.41E+06	0.80	1.32	24.3	3.99E+03	0.411
PCB-57 233'5-TeCB	NotFnd		0.8624	-		0.00E+00		1.17	ND	3.99E+03	0.461
PCB-58 233'5'-TeCB	NotFnd		0.8687	-		0.00E+00		1.23	ND	3.99E+03	0.441
PCB-67 23'45-TeCB	28.09	J	0.8736	0.8735	-0.2	1.11E+05	0.71	1.27	1.16	3.99E+03	0.426
PCB-63 234'5-TeCB	28.32	J	0.8806	0.8806	0	1.60E+05	0.86	1.33	1.6	3.99E+03	0.407
PCB-61/70/74/76 ...-TeCB	28.62	C	0.8897	0.8900	+0.5	4.62E+06	0.80	1.21	50.8	3.99E+03	0.447
PCB-66 23'44'-TeCB	28.89		0.8984	0.8984	0	2.62E+06	0.80	1.18	29.5	3.99E+03	0.457
PCB-55 233'4-TeCB	NotFnd		0.9030	-		0.00E+00		1.15	ND	3.99E+03	0.47
PCB-56 233'4'-TeCB	29.47		0.9165	0.9165	0	1.49E+06	0.75	1.14	17.4	3.99E+03	0.475
PCB-60 2344'-TeCB	29.67	J	0.9225	0.9225	0	5.97E+05	0.77	1.16	6.86	3.99E+03	0.468
PCB-80 33'55'-TeCB	NotFnd		0.9326	-		0.00E+00		1.36	ND	3.99E+03	0.398
PCB-79 33'45'-TeCB	NotFnd		0.9737	-		0.00E+00		1.37	ND	3.99E+03	0.396
PCB-78 33'45-TeCB	NotFnd		0.9888	-		0.00E+00		1.11	ND	3.99E+03	0.487
PCB-104 22'466'-PeCB	NotFnd		1.0009	-		0.00E+00		1.43	ND	1.53E+03	0.2
PCB-96 22'366'-PeCB	25.59	J	1.0135	1.0135	0	4.23E+04	0.69	1.15	0.7	1.53E+03	0.248
PCB-103 22'45'6-PeCB	NotFnd		0.8985	-		0.00E+00		0.92	ND	1.92E+03	0.328
PCB-94 22'356'-PeCB	NotFnd		0.9048	-		0.00E+00		0.78	ND	1.92E+03	0.39

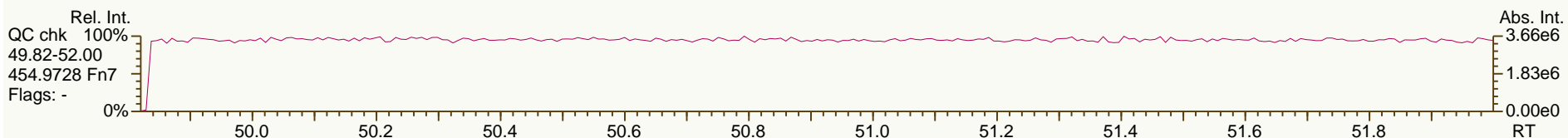
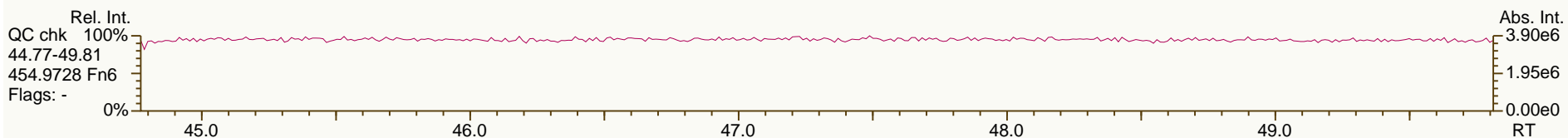
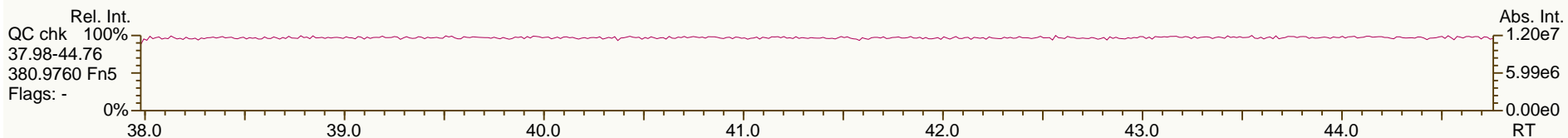
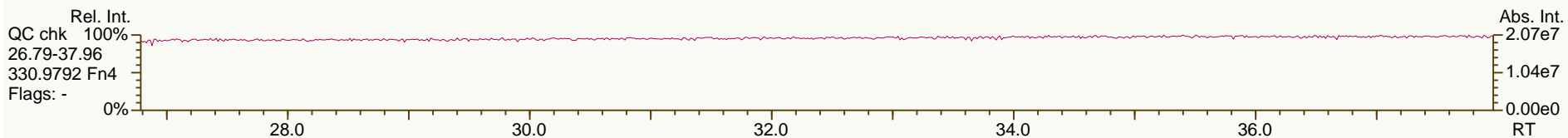
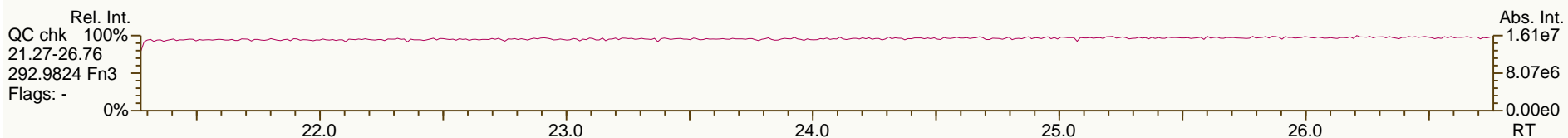
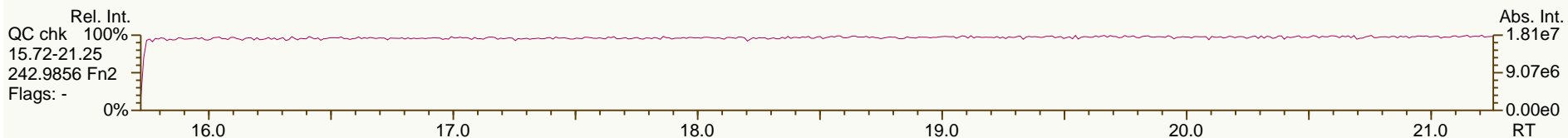
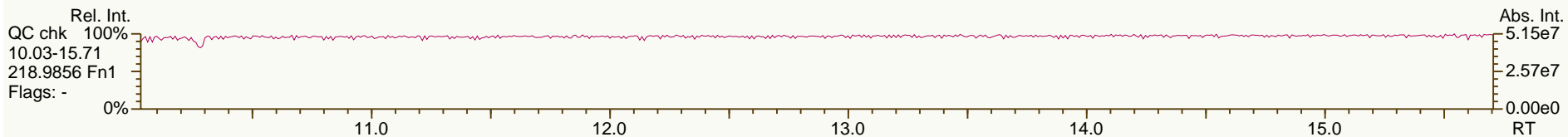
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.85	B	0.9173	0.9173	0	1.06E+06	0.62	0.84	19.5	1.92E+03	0.36
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9243	-		0.00E+00		0.85	ND	1.92E+03	0.359
PCB-102 22'456'-PeCB	28.17	J	0.9278	0.9278	0	8.96E+04	0.62	0.84	1.66	1.92E+03	0.363
PCB-98 22'34'6'-PeCB	NotFnd		0.9301	-		0.00E+00		0.85	ND	1.92E+03	0.356
PCB-88 22'346-PeCB	NotFnd		0.9402	-		0.00E+00		0.81	ND	1.92E+03	0.373
PCB-91 22'34'6-PeCB	28.61	J	0.9423	0.9422	-0.2	2.42E+05	0.65	0.88	4.28	1.92E+03	0.347
PCB-84 22'33'6-PeCB	28.80		0.9486	0.9486	0	4.25E+05	0.61	0.70	9.36	1.92E+03	0.431
PCB-89 22'346'-PeCB	29.21	J	0.9623	0.9622	-0.2	4.16E+04	0.62	0.75	0.863	1.92E+03	0.406
PCB-121 23'45'6-PeCB	NotFnd		0.9735	-		0.00E+00		1.19	ND	1.92E+03	0.256
PCB-92 22'355'-PeCB	29.88	J	0.9840	0.9841	+0.2	1.92E+05	0.59	0.80	3.71	1.92E+03	0.377
PCB-113/90/101 ...-PeCB	30.38	J B C	0.9999	1.0007	+1.5	1.06E+06	0.62	0.96	17.2	1.92E+03	0.317
PCB-83 22'33'5-PeCB	30.78	J EMPC	1.0144	1.0139	-0.9	6.16E+04	0.50	0.65	1.47	1.92E+03	0.468
PCB-99 22'44'5-PeCB	30.89	J B	1.0175	1.0174	-0.2	5.27E+05	0.59	0.95	8.58	1.92E+03	0.318
PCB-112 233'56-PeCB	31.03	EMPC	1.0208	1.0219	+2.0	7.97E+03	0.98	1.12	0.11	1.92E+03	0.27
PCB-108/119/86/97/125...-PeCB	31.37	J B C	1.0321	1.0331	+1.9	9.01E+05	0.60	0.97	14.5	1.92E+03	0.314
PCB-117 234'56-PeCB	NotFnd		1.0496	-		0.00E+00		1.09	ND	1.92E+03	0.278
PCB-116/85 23456/22'344'-PeCB	31.94	J C	1.0527	1.0520	-1.3	2.67E+05	0.64	0.96	4.33	1.92E+03	0.317
PCB-110 233'4'6-PeCB	32.08	B	1.0566	1.0567	+0.2	1.52E+06	0.61	1.10	21.5	1.92E+03	0.276
PCB-115 2344'6-PeCB	NotFnd		1.0594	-		0.00E+00		1.12	ND	1.92E+03	0.272
PCB-82 22'33'4-PeCB	32.36	J	1.0659	1.0660	+0.2	1.38E+05	0.55	0.69	3.11	1.92E+03	0.44
PCB-111 233'55'-PeCB	NotFnd		1.0761	-		0.00E+00		1.21	ND	1.92E+03	0.252
PCB-120 23'455'-PeCB	NotFnd		1.0892	-		0.00E+00		1.20	ND	1.92E+03	0.253
PCB-107/124 ...-PeCB	34.05	J EMPC C	0.9915	0.9918	+0.6	3.82E+04	0.80	1.09	0.545	1.92E+03	0.279
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.19	ND	1.92E+03	0.256
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		1.15	ND	1.92E+03	0.264
PCB-122 233'4'5'-PeCB	NotFnd		1.0091	-		0.00E+00		1.00	ND	1.92E+03	0.298
PCB-127 33'455'-PeCB	NotFnd		1.0351	-		0.00E+00		1.09	ND	1.92E+03	0.268
PCB-155 22'44'66'-HxCB	NotFnd		1.0007	-		0.00E+00		1.26	ND	1.63E+03	0.189
PCB-152 22'3566'-HxCB	NotFnd		1.0062	-		0.00E+00		1.08	ND	1.63E+03	0.221
PCB-150 22'34'66'-HxCB	NotFnd		1.0108	-		0.00E+00		1.10	ND	1.63E+03	0.216
PCB-136 22'33'66'-HxCB	30.82	J B EMPC	1.0210	1.0210	0	9.70E+04	1.47	1.00	1.45	1.63E+03	0.237
PCB-145 22'3466'-HxCB	NotFnd		1.0299	-		0.00E+00		1.04	ND	1.63E+03	0.23
PCB-148 22'34'56'-HxCB	NotFnd		1.0719	-		0.00E+00		1.08	ND	1.63E+03	0.321
PCB-151/135 ...-HxCB	32.88	J B C	1.0891	1.0889	-0.4	1.58E+05	1.29	1.04	3.17	1.63E+03	0.331
PCB-154 22'44'56'-HxCB	NotFnd		1.0960	-		0.00E+00		1.22	ND	1.63E+03	0.283
PCB-144 22'345'6-HxCB	NotFnd		1.1048	-		0.00E+00		1.09	ND	1.63E+03	0.317
PCB-147/149 ...-HxCB	33.65	J B C	1.1148	1.1147	-0.2	3.25E+05	1.35	1.08	6.31	1.63E+03	0.32
PCB-134 22'33'56-HxCB	NotFnd		1.1205	-		0.00E+00		0.82	ND	1.63E+03	0.421
PCB-143 22'3456'-HxCB	NotFnd		1.1231	-		0.00E+00		1.06	ND	1.63E+03	0.327
PCB-139/140 ...-HxCB	NotFnd	C	1.1319	-		0.00E+00		1.11	ND	1.63E+03	0.312
PCB-131 22'33'46-HxCB	NotFnd		1.1377	-		0.00E+00		0.92	ND	1.63E+03	0.375
PCB-142 22'3456-HxCB	NotFnd		1.1425	-		0.00E+00		0.92	ND	1.63E+03	0.375
PCB-132 22'33'46'-HxCB	34.73	J B EMPC	1.1502	1.1503	+0.2	1.13E+05	1.05	0.96	2.47	1.63E+03	0.36
PCB-133 22'33'55'-HxCB	NotFnd		1.1636	-		0.00E+00		1.02	ND	1.63E+03	0.34
PCB-165 233'55'6-HxCB	NotFnd		0.9523	-		0.00E+00		1.33	ND	1.63E+03	0.26
PCB-146 22'34'55'-HxCB	35.69	J B	0.9580	0.9580	0	6.03E+04	1.12	1.12	1.12	1.63E+03	0.307
PCB-161 233'45'6-HxCB	NotFnd		0.9612	-		0.00E+00		1.50	ND	1.63E+03	0.23
PCB-153/168 ...-HxCB	36.21	J B C	0.9727	0.9720	-1.5	3.65E+05	1.12	1.38	5.53	1.63E+03	0.25

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	36.38	J	0.9766	0.9767	+0.2	7.11E+04	1.18	1.05	1.42	1.63E+03	0.33
PCB-130 22'33'45'-HxCB	NotFnd		0.9859	-		0.00E+00		0.92	ND	1.63E+03	0.376
PCB-137 22'344'5-HxCB	36.93	J	0.9912	0.9914	+0.4	2.81E+04	1.34	1.20	0.49	1.63E+03	0.288
PCB-164 233'4'5'6-HxCB	37.01	J	0.9934	0.9934	0	3.49E+04	1.18	1.36	0.537	1.63E+03	0.254
PCB-163/138/129 ...-HxCB	37.28	J B C	1.0011	1.0007	-0.9	4.22E+05	1.24	1.11	7.93	1.63E+03	0.31
PCB-160 233'456-HxCB	NotFnd		1.0049	-		0.00E+00		1.39	ND	1.63E+03	0.248
PCB-158 233'44'6-HxCB	37.61	J	1.0097	1.0097	0	5.62E+04	1.23	1.53	0.768	1.63E+03	0.226
PCB-128/166 ...-HxCB	38.36	J C	0.9639	0.9642	+0.7	5.42E+04	1.19	0.87	1.03	1.45E+03	0.287
PCB-159 233'455'-HxCB	NotFnd		0.9843	-		0.00E+00		1.06	ND	1.45E+03	0.237
PCB-162 233'4'55'-HxCB	NotFnd		0.9903	-		0.00E+00		1.06	ND	1.45E+03	0.236
PCB-188 22'34'566'-HpCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	1.37E+03	0.212
PCB-179 22'33'566'-HpCB	35.37	J	1.0087	1.0087	0	4.05E+04	1.02	1.07	0.748	1.37E+03	0.251
PCB-184 22'344'66'-HpCB	NotFnd		1.0217	-		0.00E+00		1.05	ND	1.37E+03	0.255
PCB-176 22'33'466'-HpCB	NotFnd		1.0302	-		0.00E+00		1.15	ND	1.37E+03	0.234
PCB-186 22'34566'-HpCB	NotFnd		1.0415	-		0.00E+00		1.08	ND	1.37E+03	0.248
PCB-178 22'33'55'6-HpCB	NotFnd		1.0736	-		0.00E+00		0.76	ND	1.37E+03	0.351
PCB-175 22'33'45'6-HpCB	NotFnd		1.0891	-		0.00E+00		1.06	ND	1.91E+03	0.408
PCB-187 22'34'55'6-HpCB	38.42	J EMPC	1.0956	1.0957	+0.2	8.97E+04	0.88	1.12	1.83	1.91E+03	0.386
PCB-182 22'344'56'-HpCB	NotFnd		1.1007	-		0.00E+00		1.16	ND	1.91E+03	0.375
PCB-183 22'344'5'6-HpCB	38.94	J	1.1105	1.1106	+0.2	4.93E+04	1.14	1.24	0.913	1.91E+03	0.351
PCB-185 22'3455'6-HpCB	NotFnd		1.1129	-		0.00E+00		1.00	ND	1.91E+03	0.433
PCB-174 22'33'456'-HpCB	39.14	J	1.1160	1.1163	+0.7	5.93E+04	1.03	0.96	1.42	1.91E+03	0.454
PCB-177 22'33'45'6'-HpCB	39.51	J	1.1268	1.1268	0	3.59E+04	1.15	0.92	0.895	1.91E+03	0.472
PCB-181 22'344'56-HpCB	NotFnd		1.1366	-		0.00E+00		1.08	ND	1.91E+03	0.403
PCB-171/173 ...-HpCB	NotFnd	C	1.1419	-		0.00E+00		0.94	ND	1.91E+03	0.462
PCB-172 22'33'455'-HpCB	NotFnd		0.9077	-		0.00E+00		0.97	ND	1.91E+03	0.447
PCB-192 233'455'6-HpCB	NotFnd		0.9131	-		0.00E+00		1.28	ND	1.91E+03	0.338
PCB-180/193 ...-HpCB	41.95	J C	0.9191	0.9198	+1.8	1.76E+05	1.13	1.23	3.27	1.91E+03	0.353
PCB-191 233'44'5'6-HpCB	NotFnd		0.9264	-		0.00E+00		1.37	ND	1.91E+03	0.316
PCB-170 22'33'44'5-HpCB	43.02	J	0.9433	0.9433	0	7.17E+04	1.15	1.11	1.77	1.91E+03	0.498
PCB-190 233'44'56-HpCB	NotFnd		0.9531	-		0.00E+00		1.58	ND	1.91E+03	0.349
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0005	-		0.00E+00		1.05	ND	1.20E+03	0.249
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0203	-		0.00E+00		1.12	ND	1.20E+03	0.235
PCB-204 22'344'566'-OcCB	NotFnd		1.0348	-		0.00E+00		1.06	ND	1.20E+03	0.247
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0396	-		0.00E+00		1.16	ND	1.20E+03	0.225
PCB-200 22'33'4566'-OcCB	NotFnd		1.0419	-		0.00E+00		1.03	ND	1.20E+03	0.256
PCB-198/199 ...-OcCB	43.60	J EMPC C	1.1005	1.1010	+1.3	3.77E+04	1.32	0.73	1.1	1.20E+03	0.357
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1150	-		0.00E+00		0.78	ND	1.20E+03	0.337
PCB-203 22'344'55'6-OcCB	NotFnd		1.1192	-		0.00E+00		0.80	ND	1.20E+03	0.328
PCB-195 22'33'44'56-OcCB	NotFnd		0.9515	-		0.00E+00		0.72	ND	1.31E+03	0.477
PCB-194 22'33'44'55'-OcCB	47.39	J	0.9921	0.9921	0	2.69E+04	1.01	0.79	0.857	1.31E+03	0.437
PCB-205 233'44'55'6-OcCB	NotFnd		1.0004	-		0.00E+00		1.06	ND	1.31E+03	0.324
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		1.12	ND	2.60E+03	0.564
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0179	-		0.00E+00		1.13	ND	2.60E+03	0.558
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		1.11	ND	2.60E+03	0.872

SGS ID: A6528\_11906\_PCB\_004  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

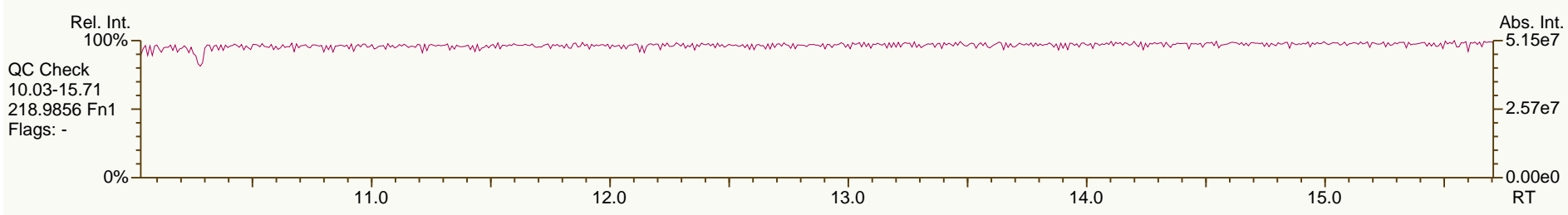
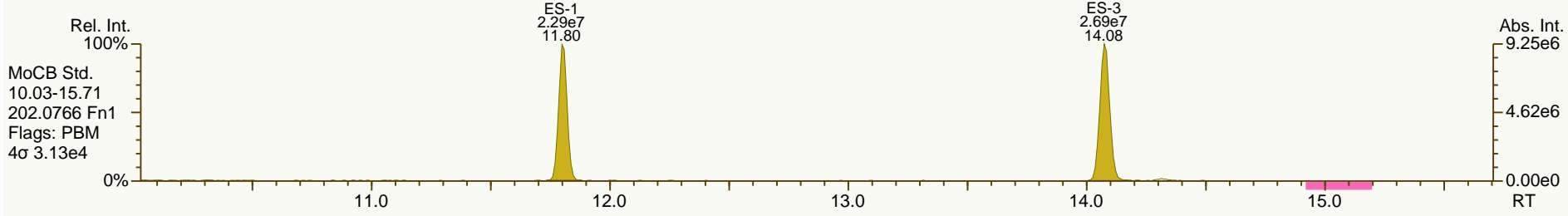
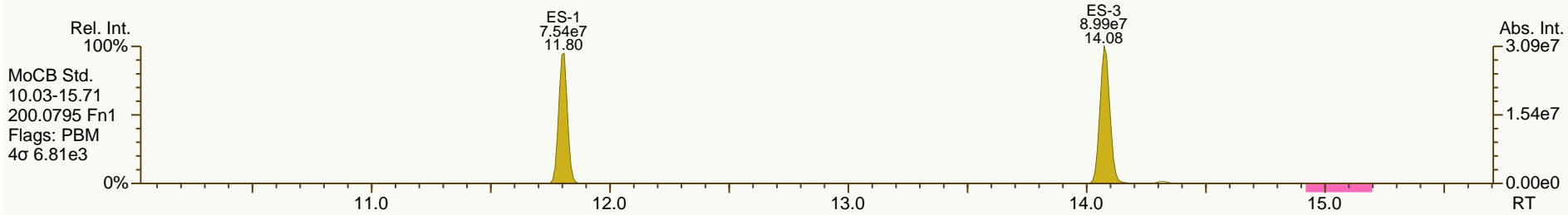
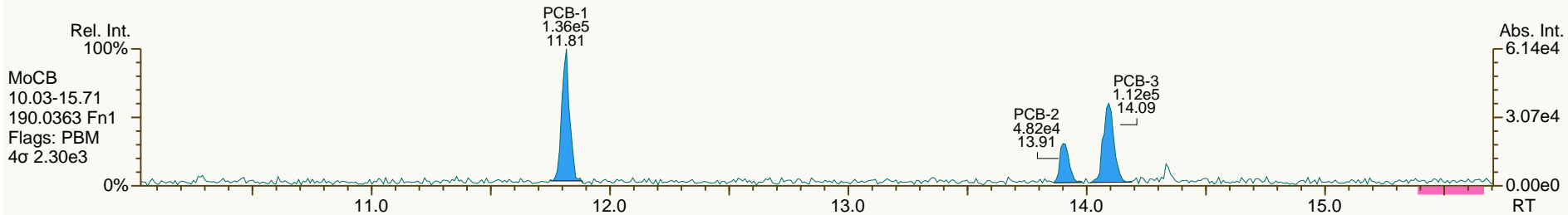
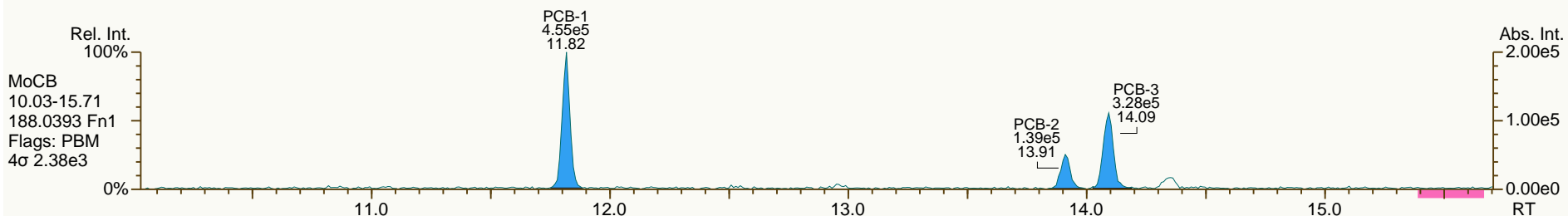
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SGS ID: A6528\_11906\_PCB\_004  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)  
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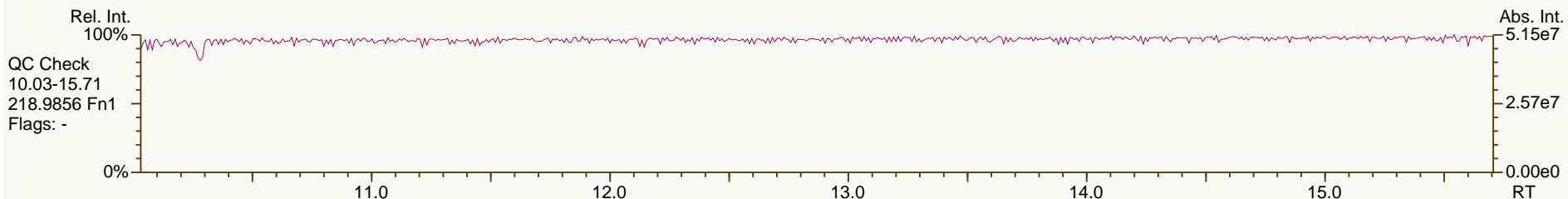
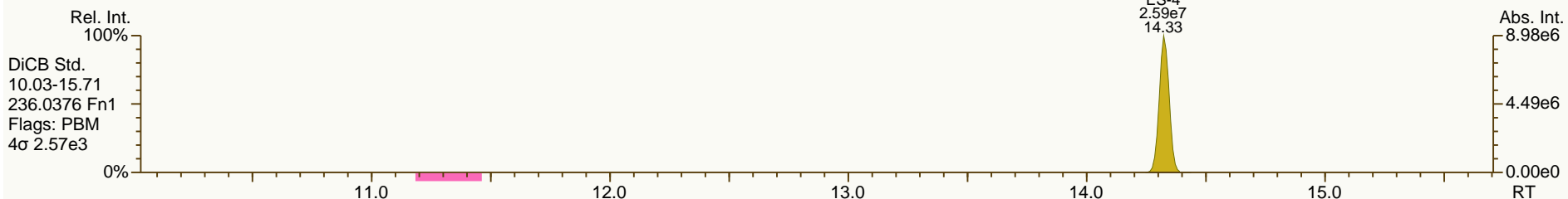
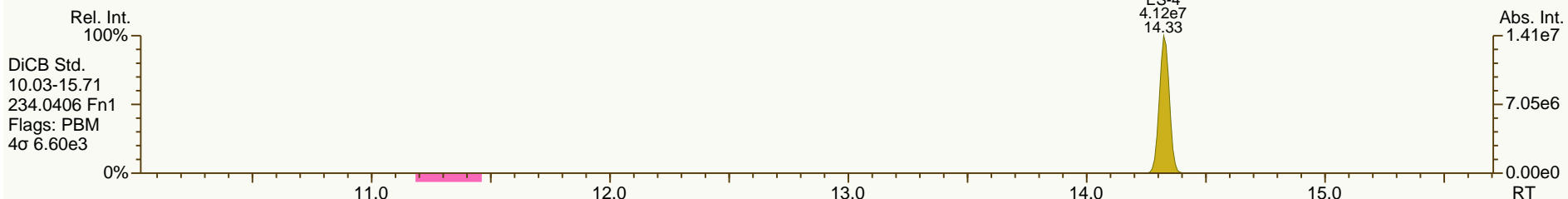
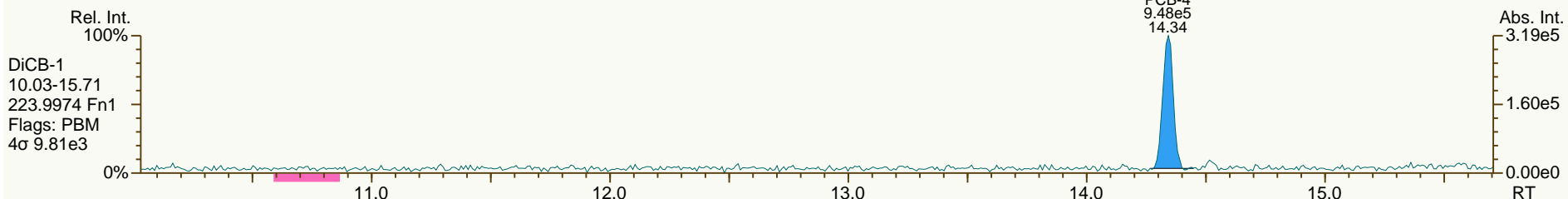
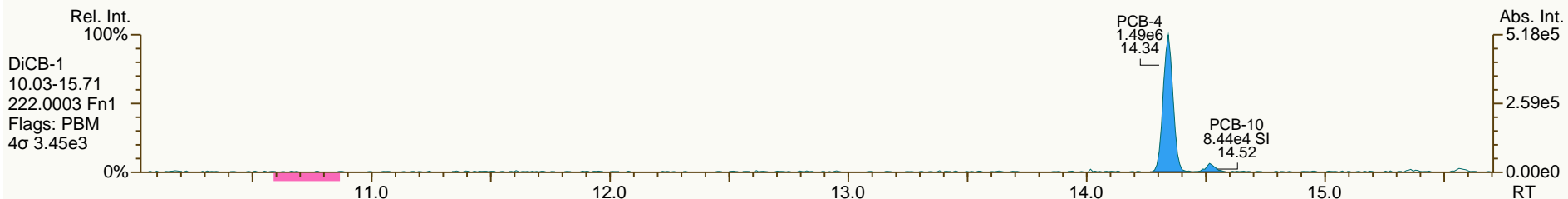
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SGS ID: A6528\_11906\_PCB\_004  
 Instr: [ILM] AutoSpec-Premier MM7

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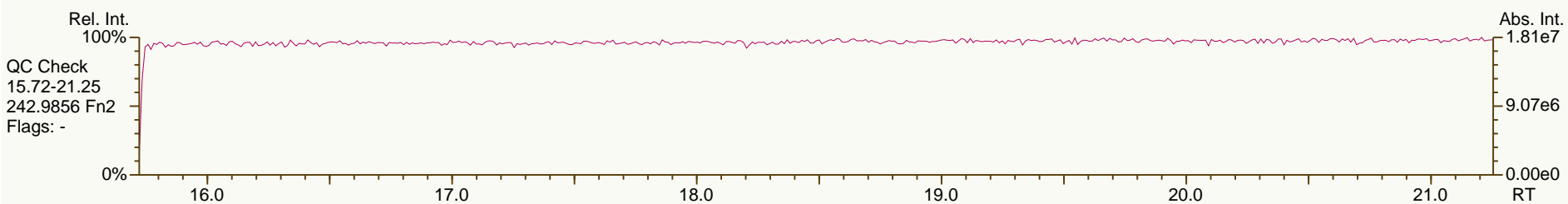
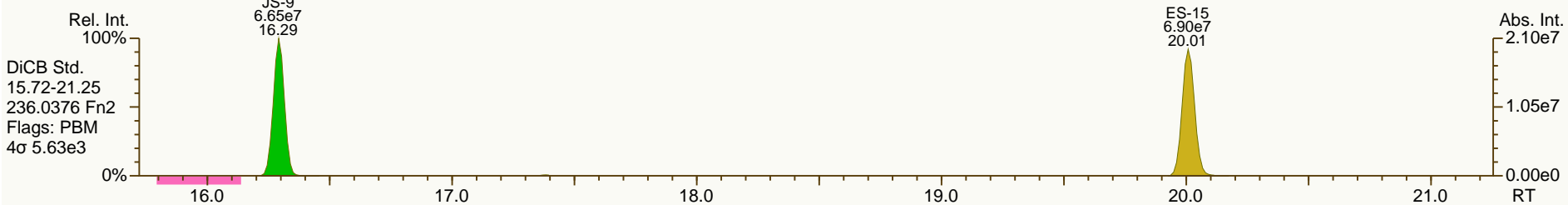
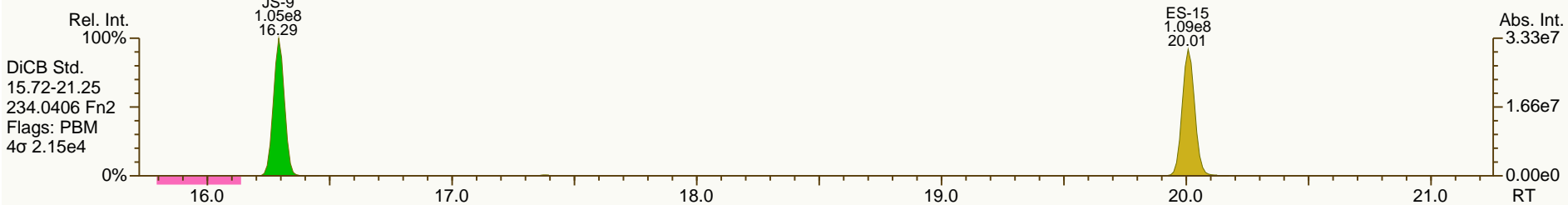
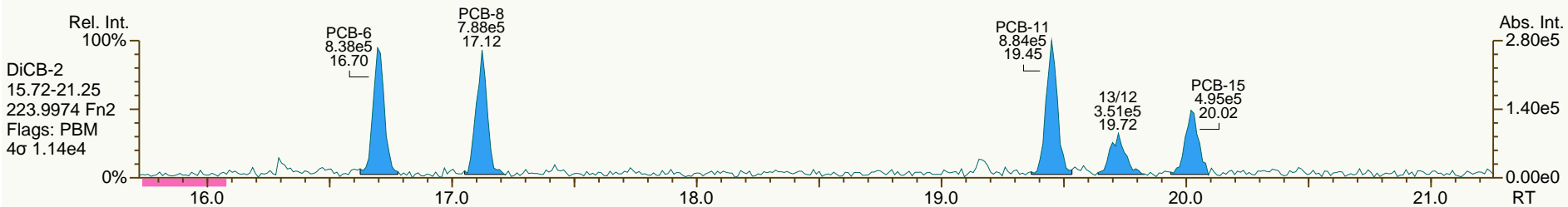
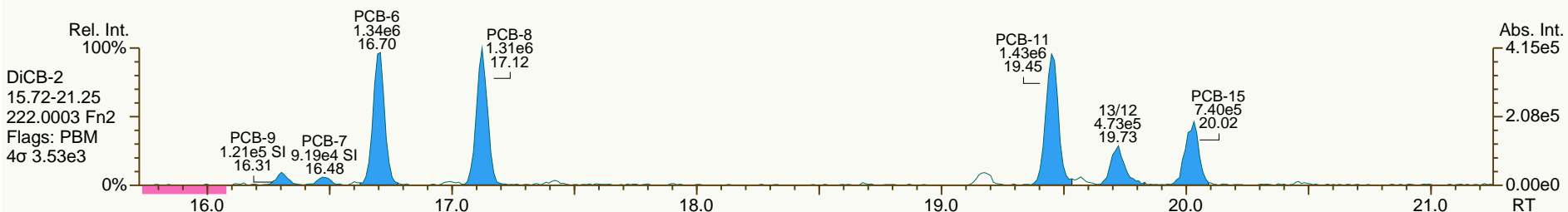
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SGS ID: A6528\_11906\_PCB\_004  
 Instr: [ILM] AutoSpec-Premier MM7

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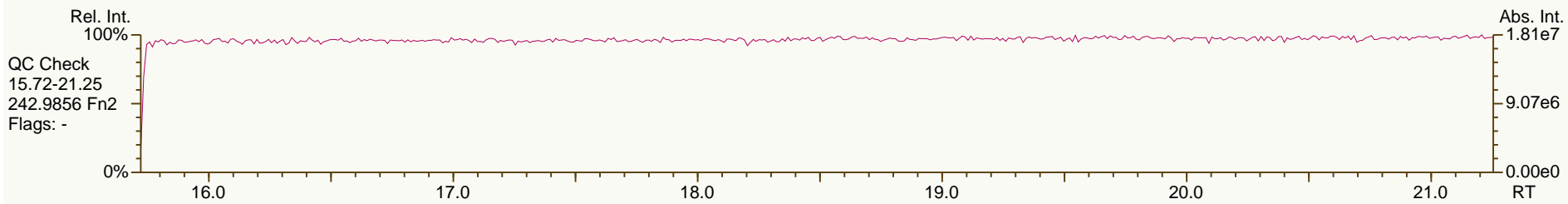
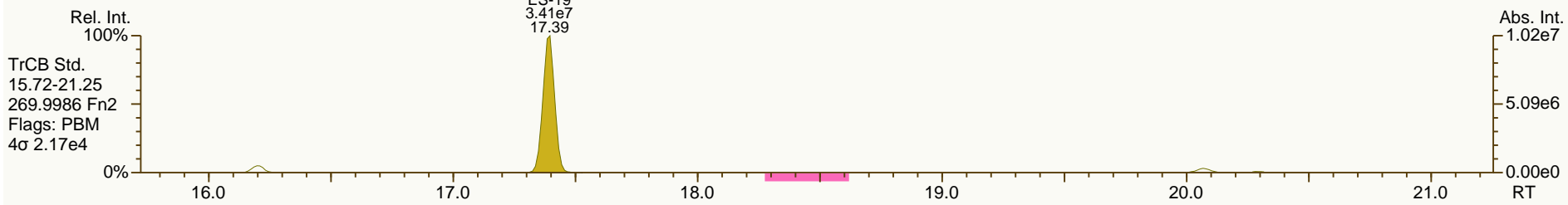
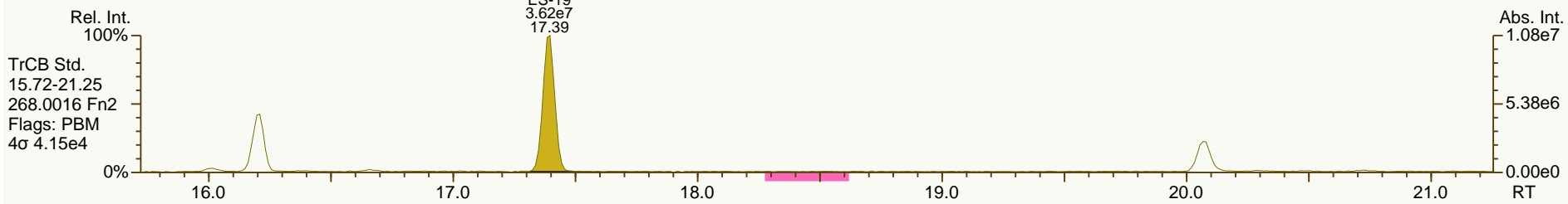
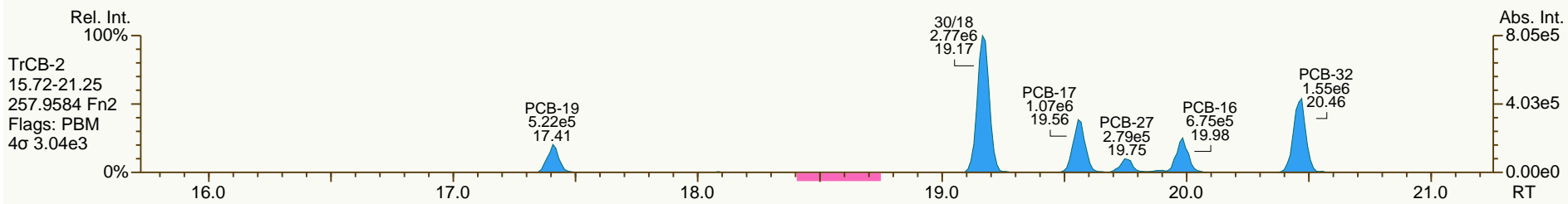
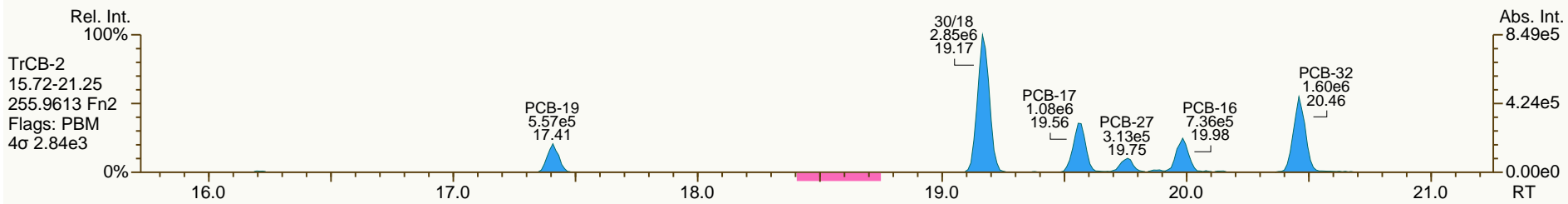
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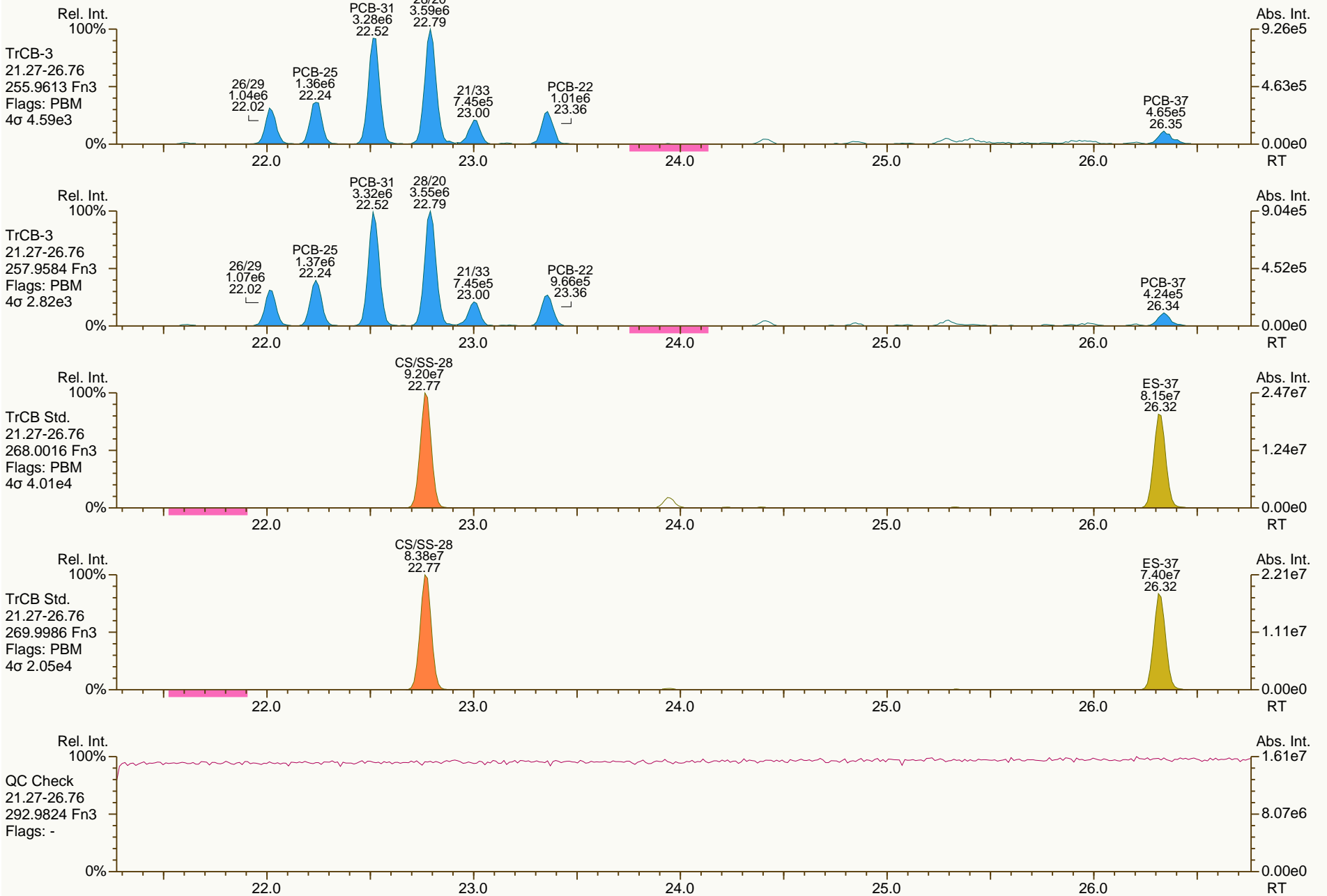




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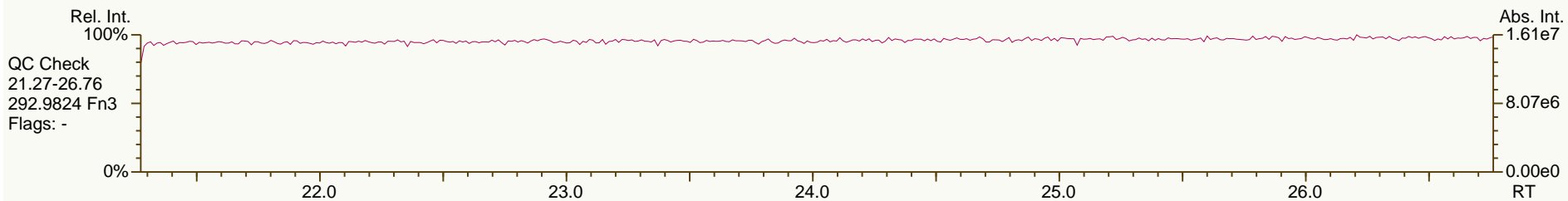
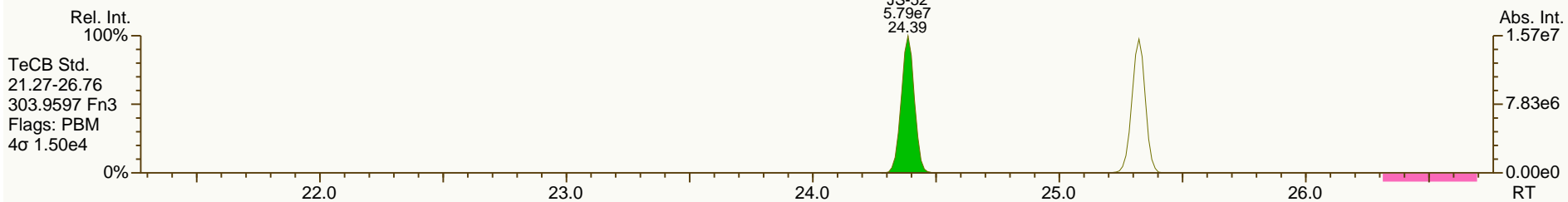
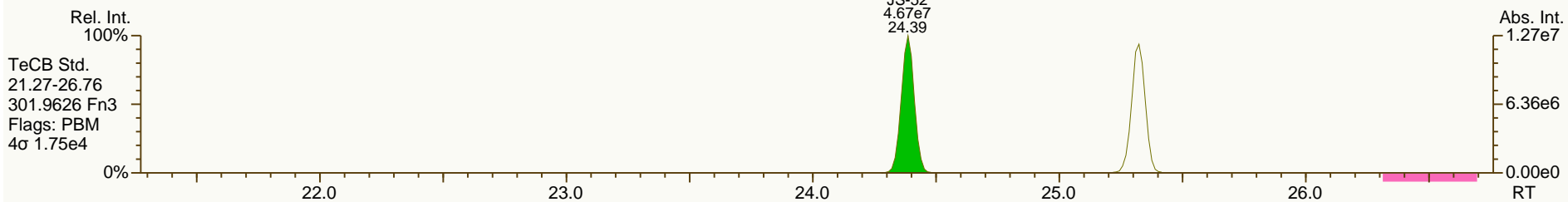
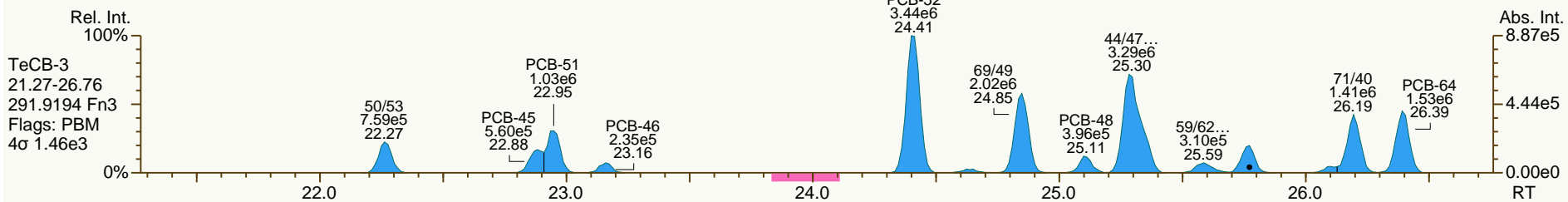
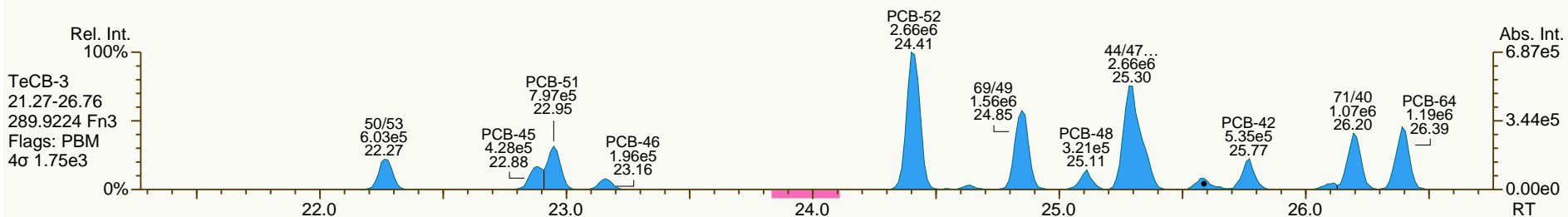
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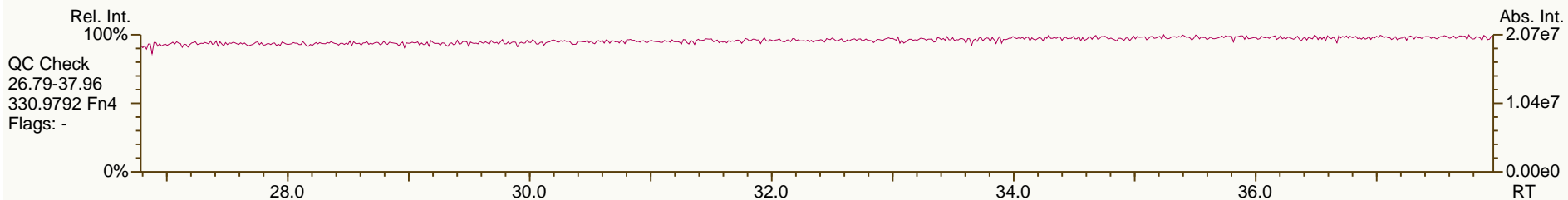
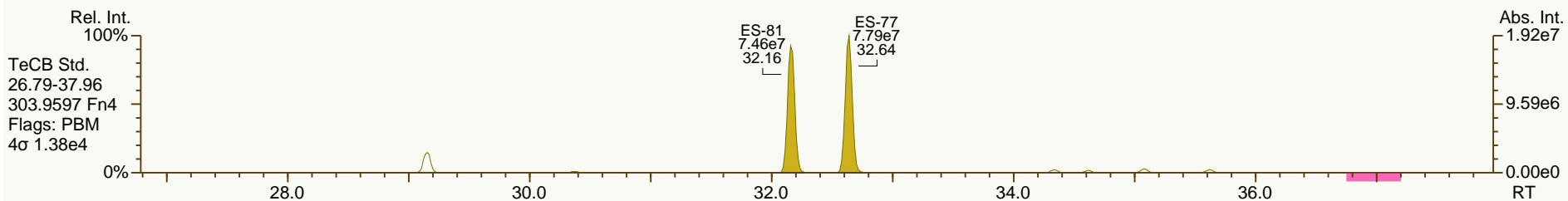
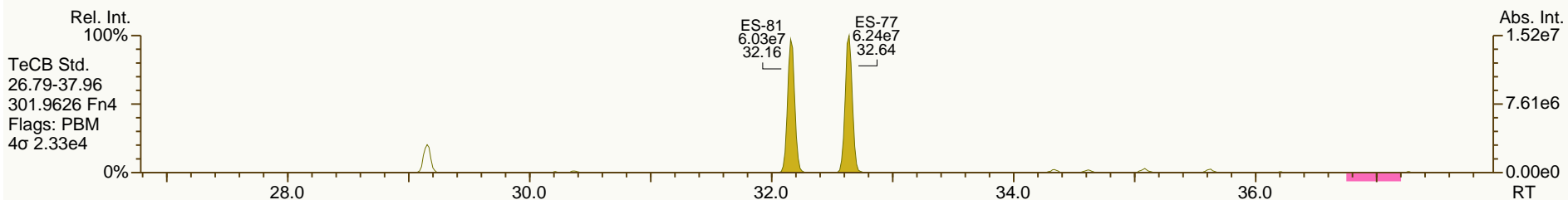
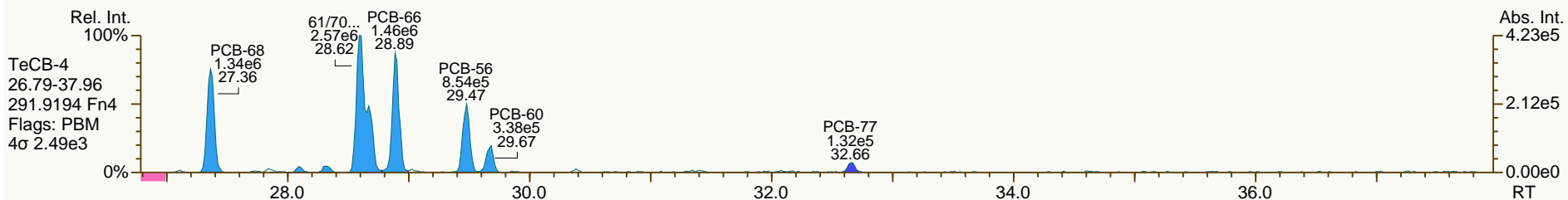
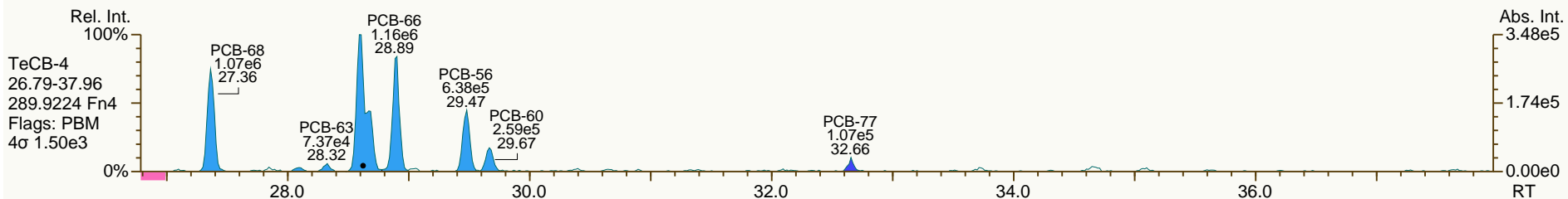
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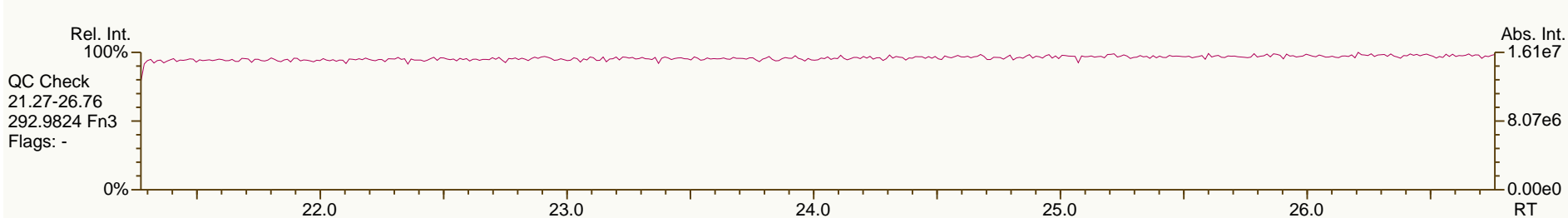
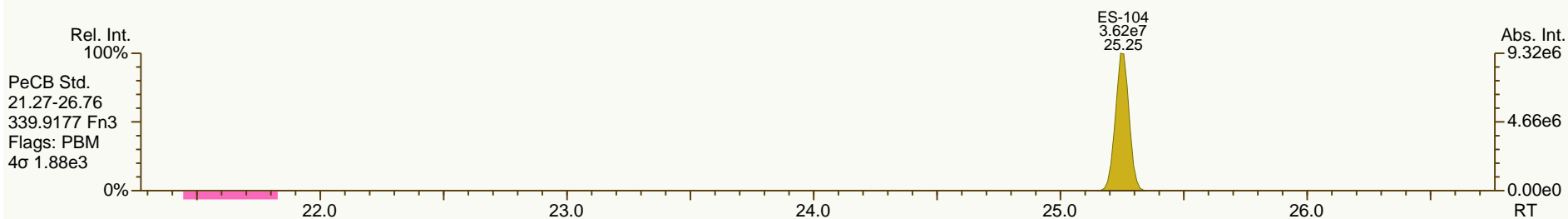
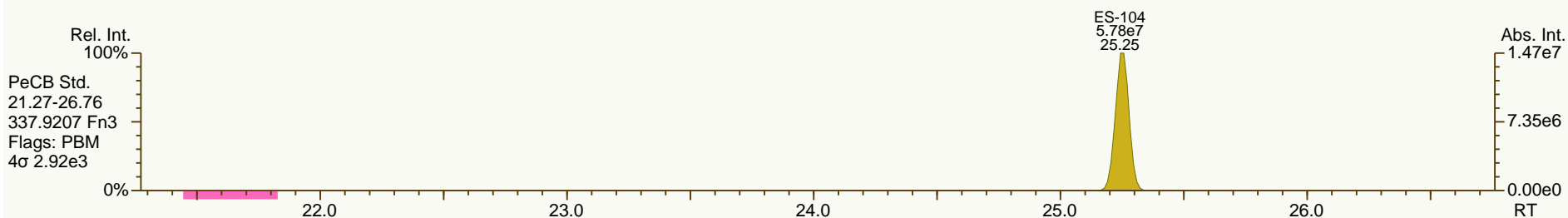
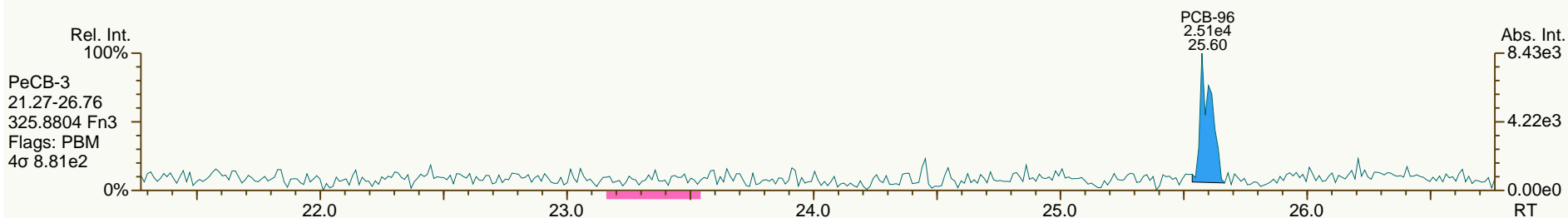
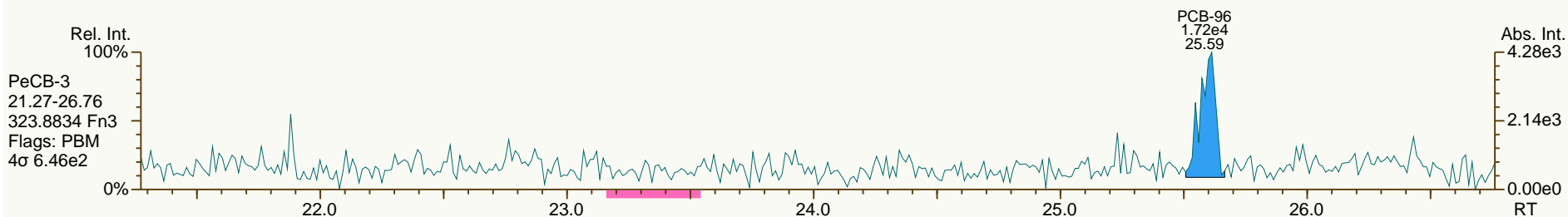
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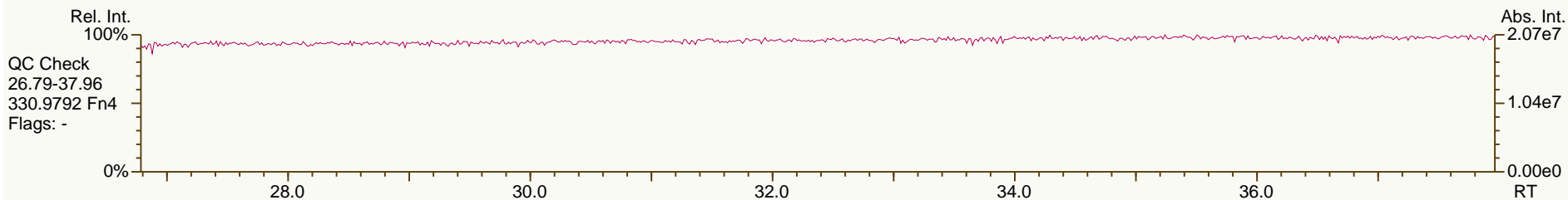
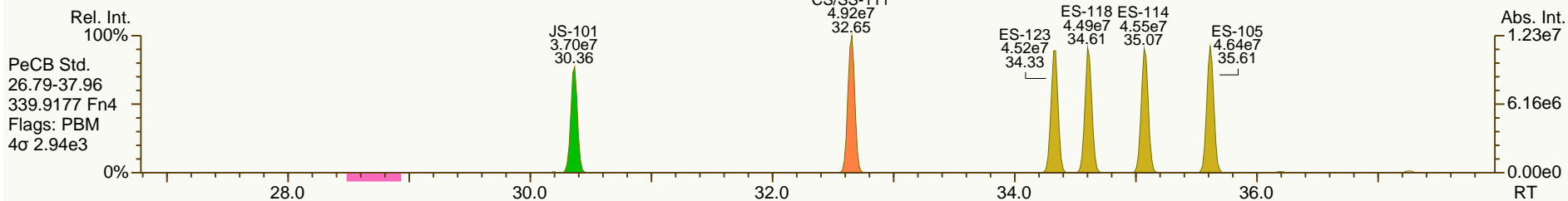
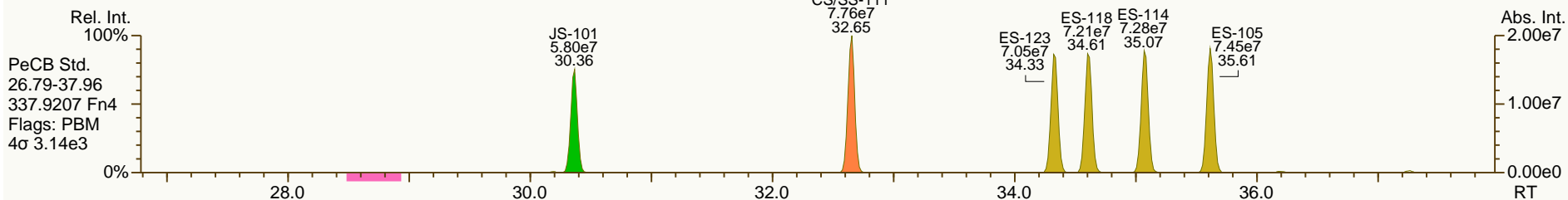
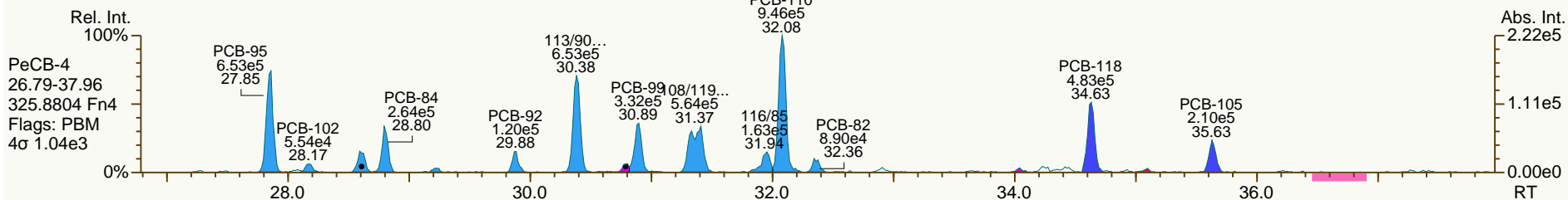
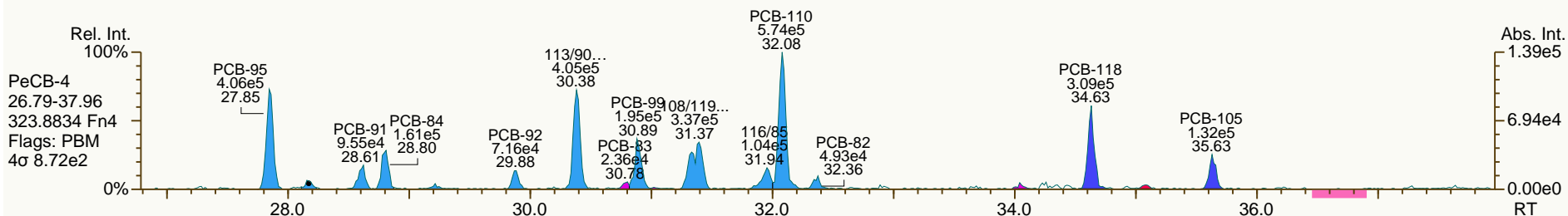
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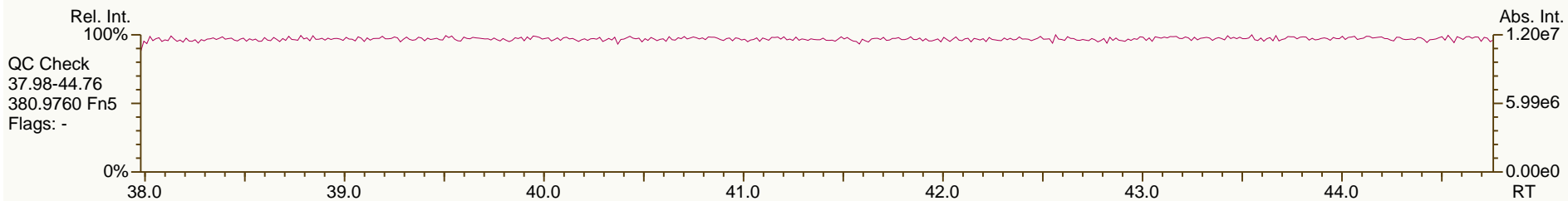
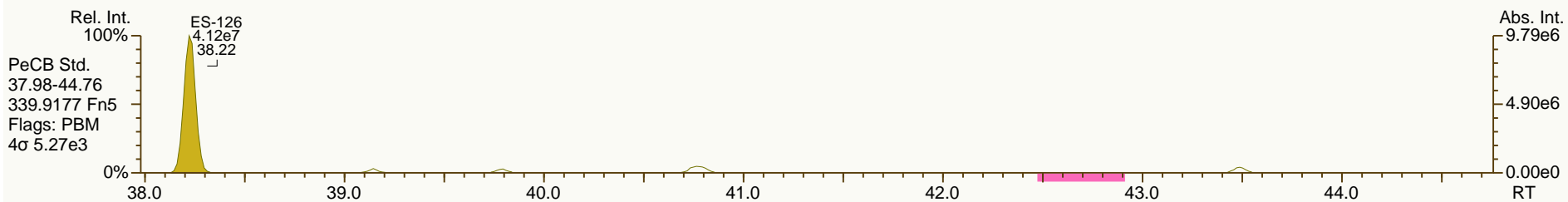
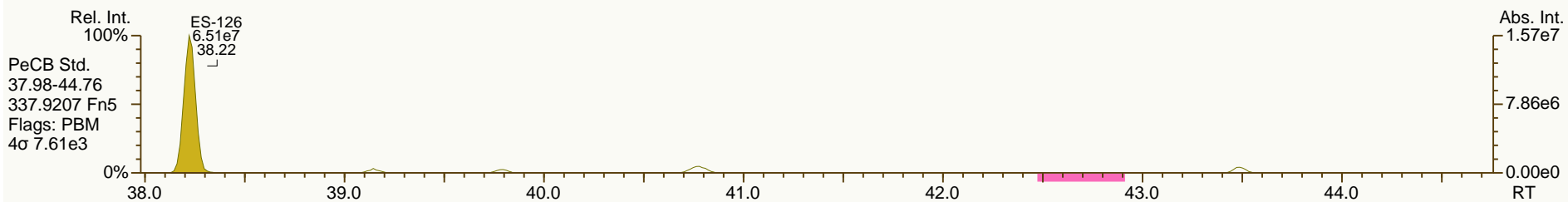
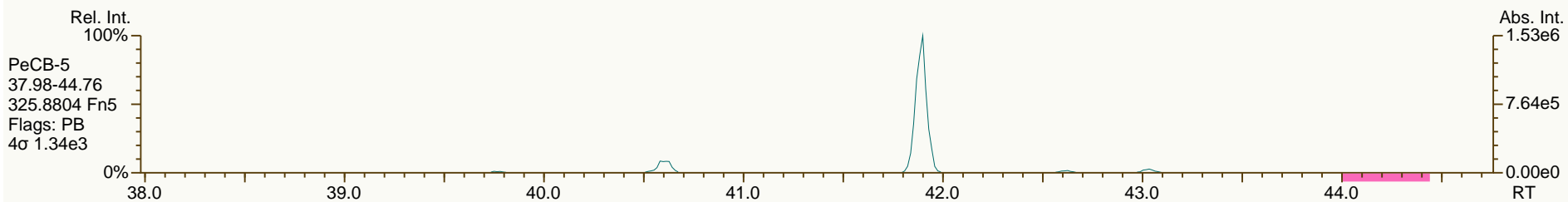
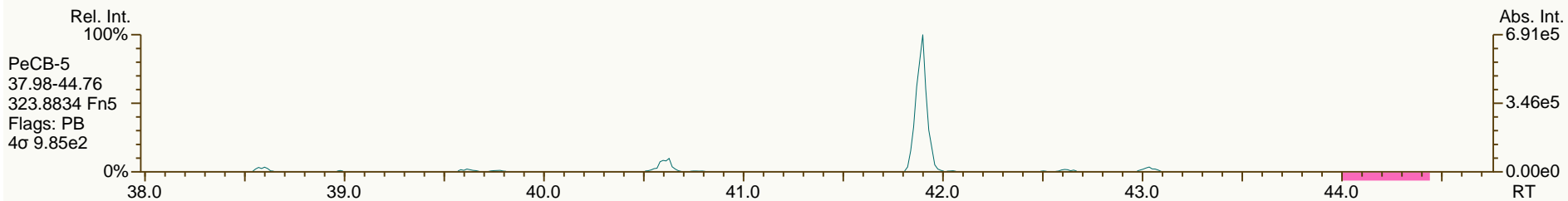
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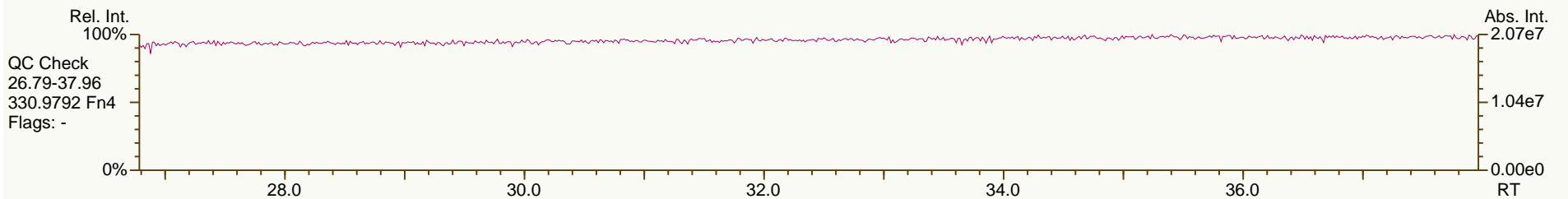
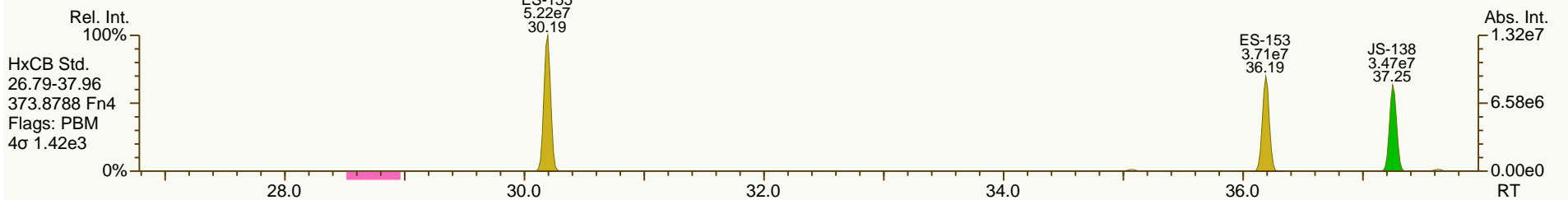
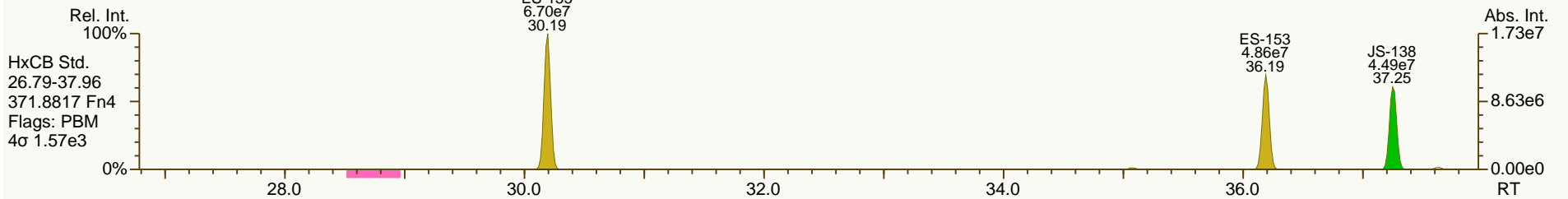
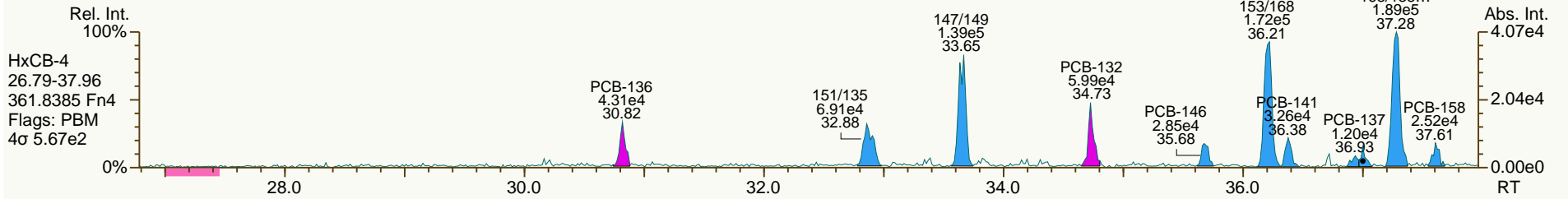
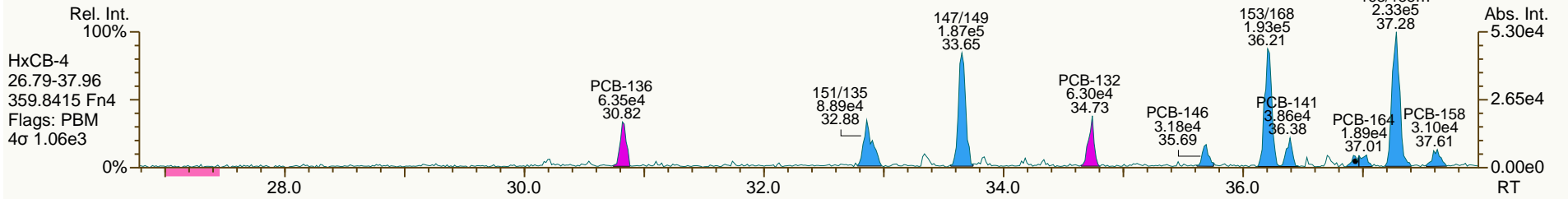
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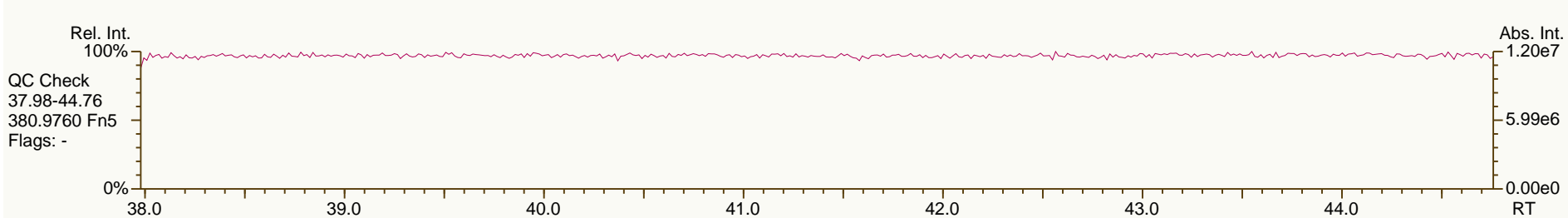
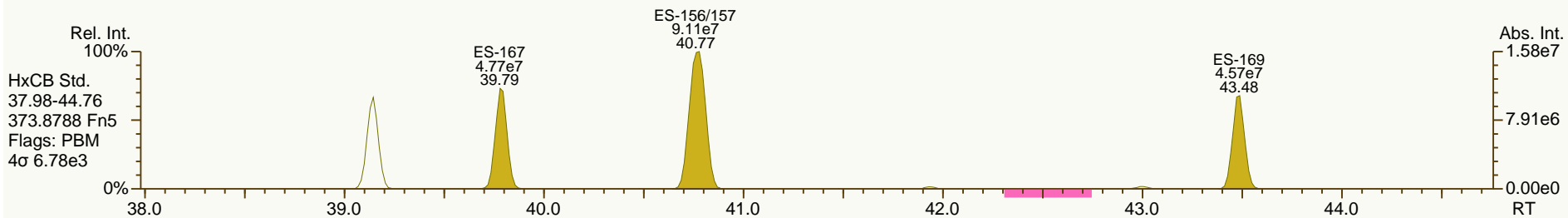
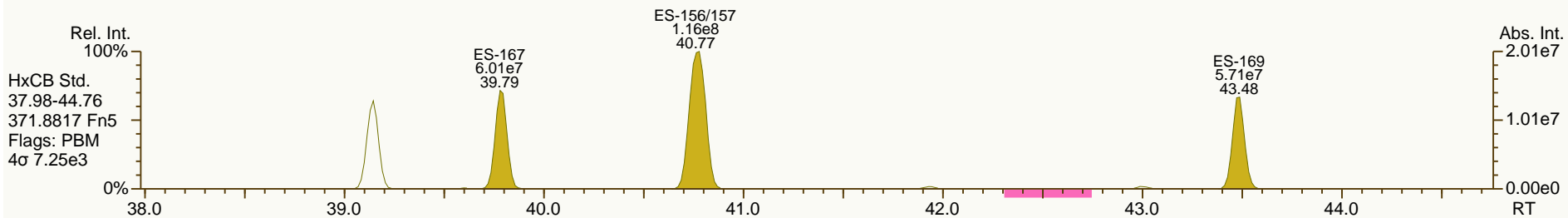
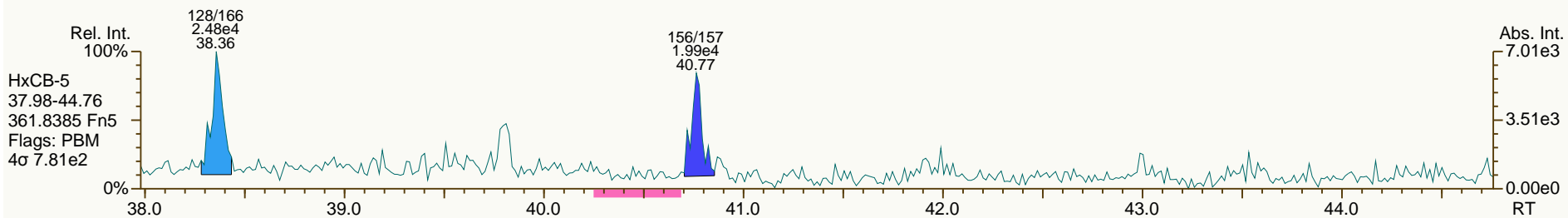
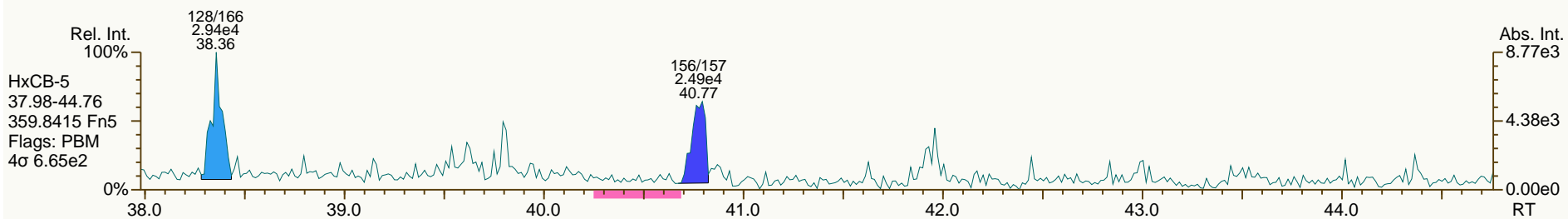




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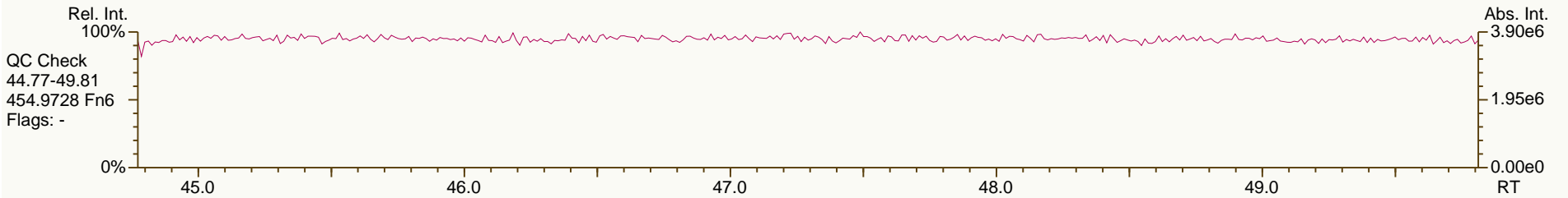
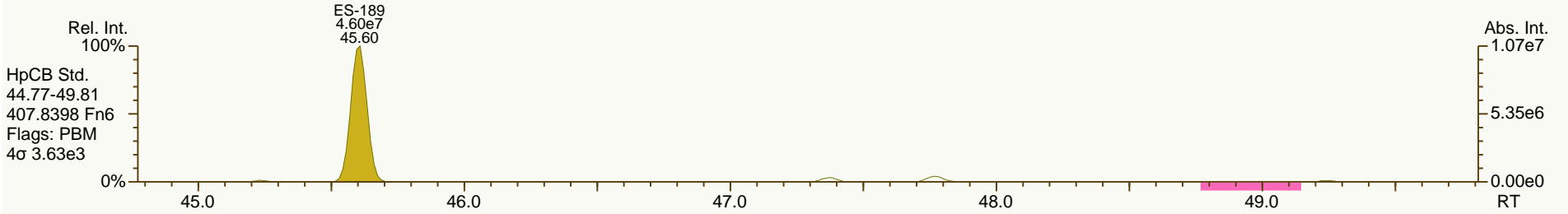
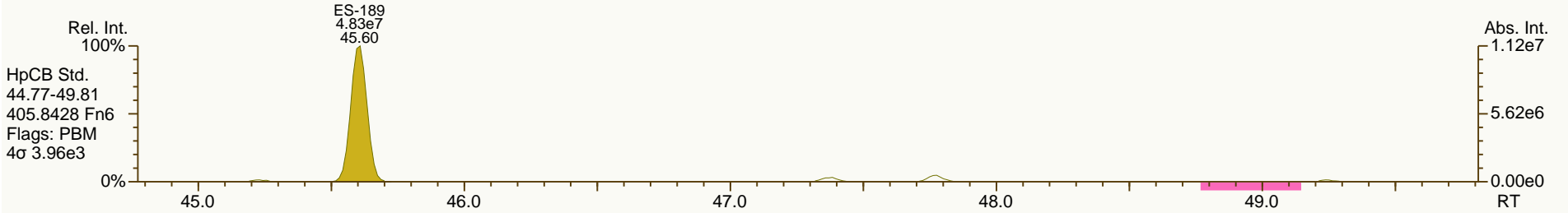
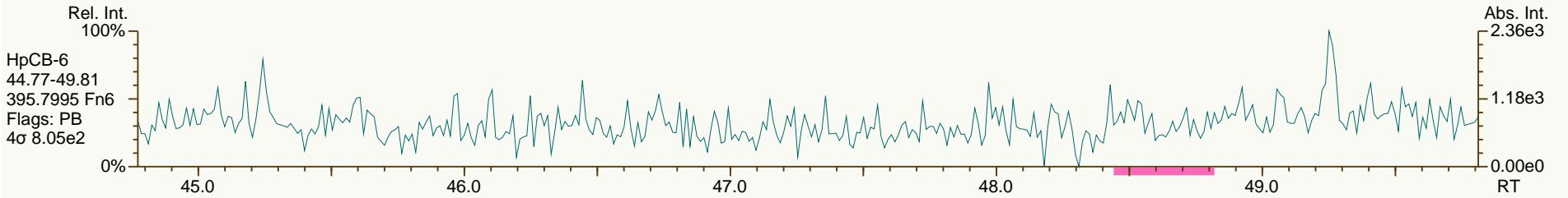
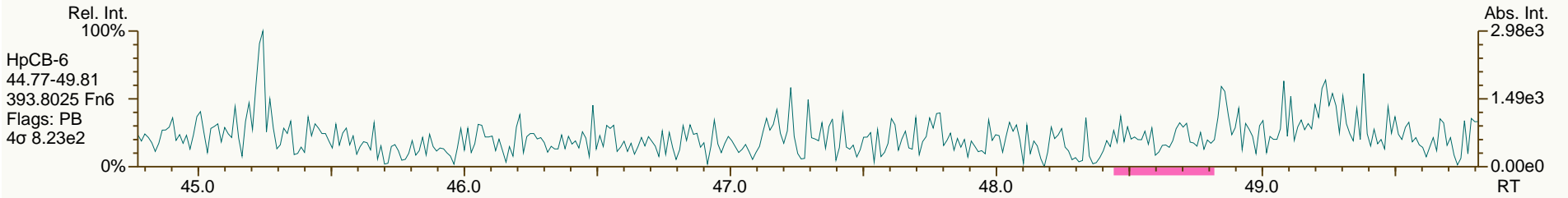
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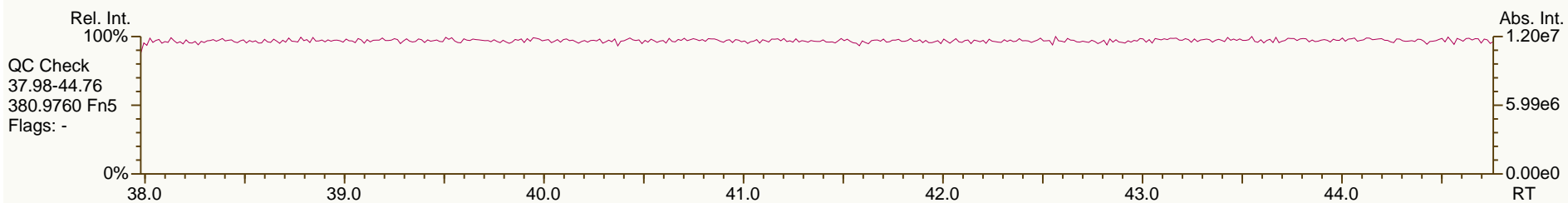
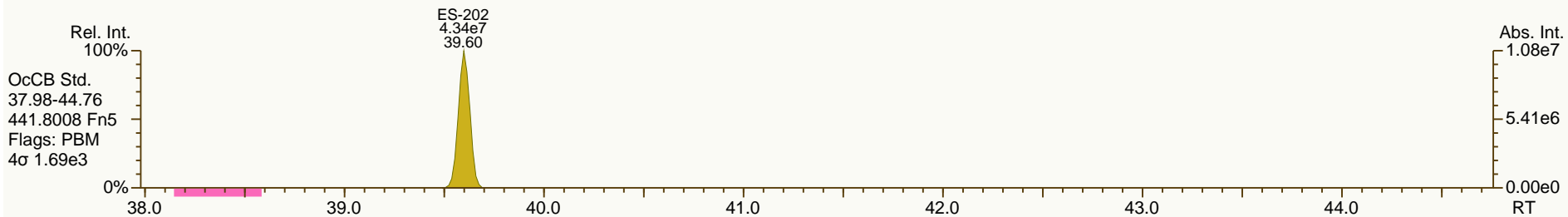
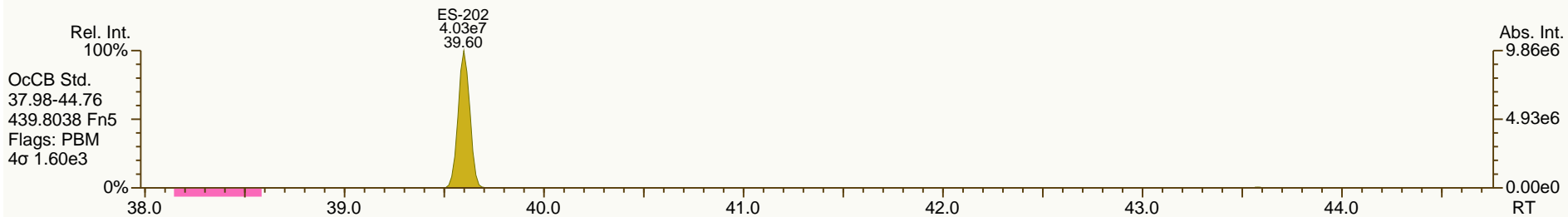
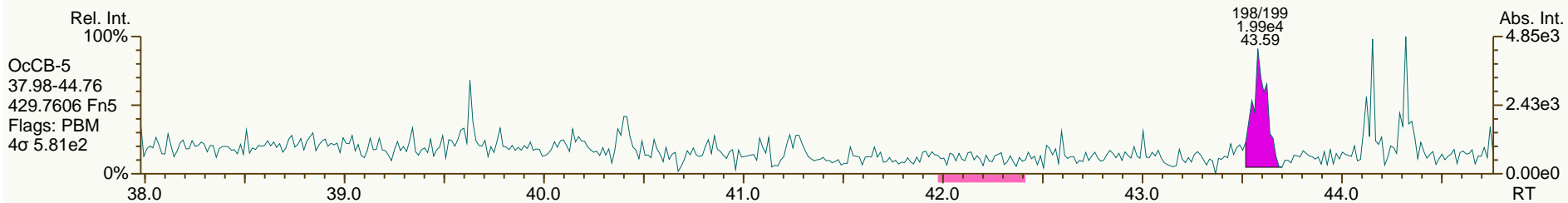
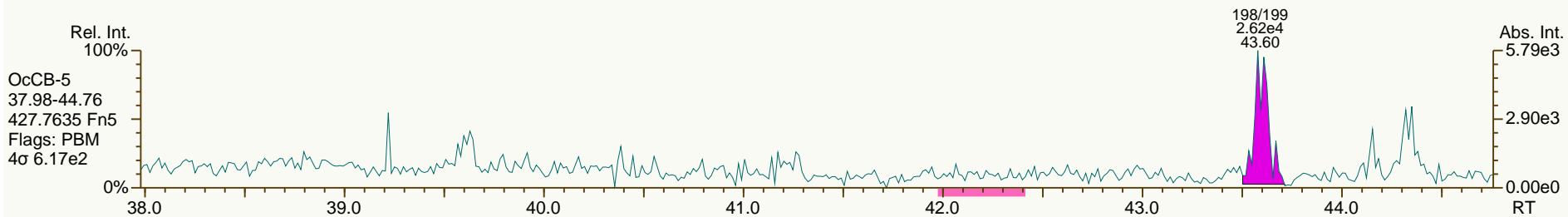
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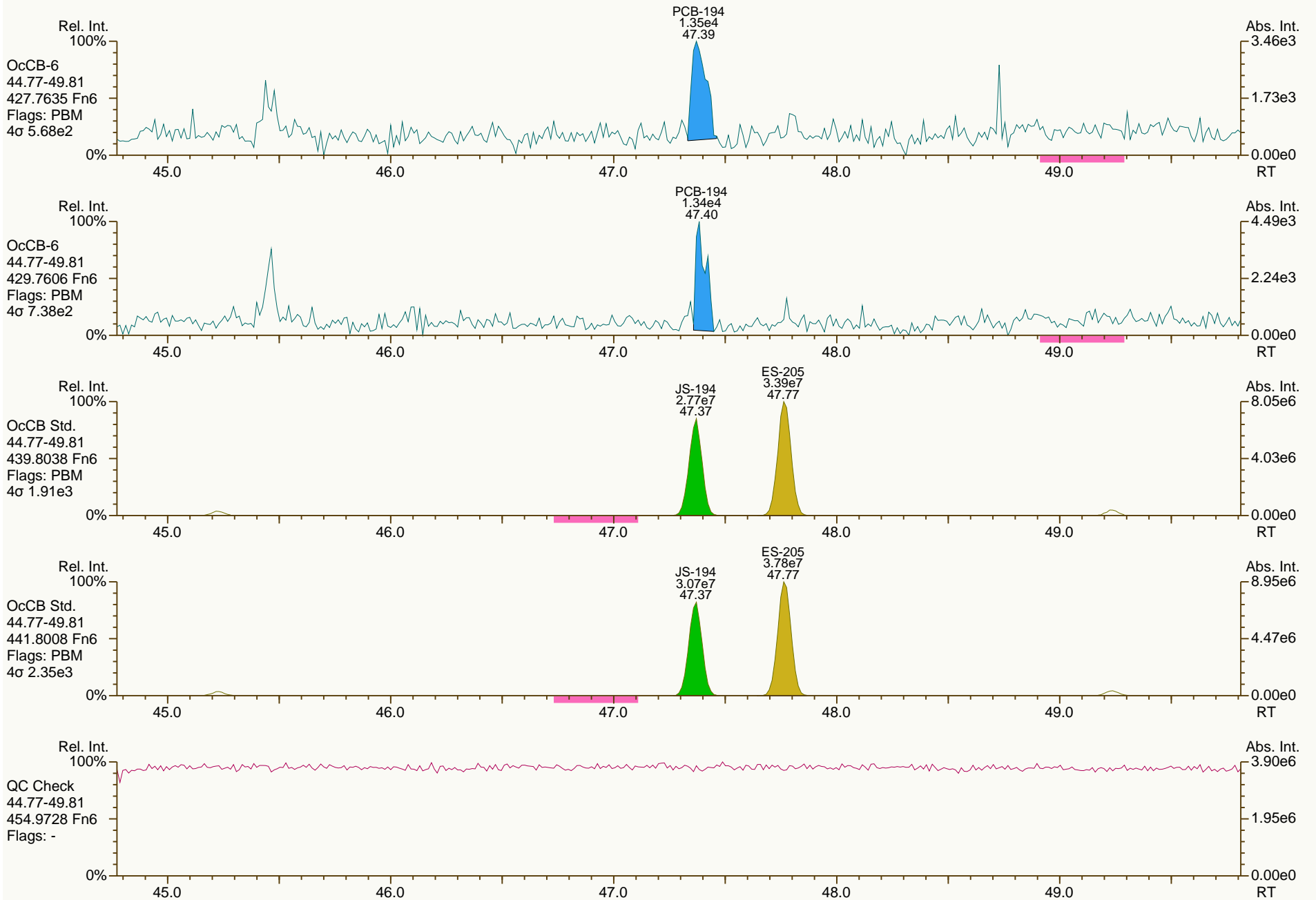
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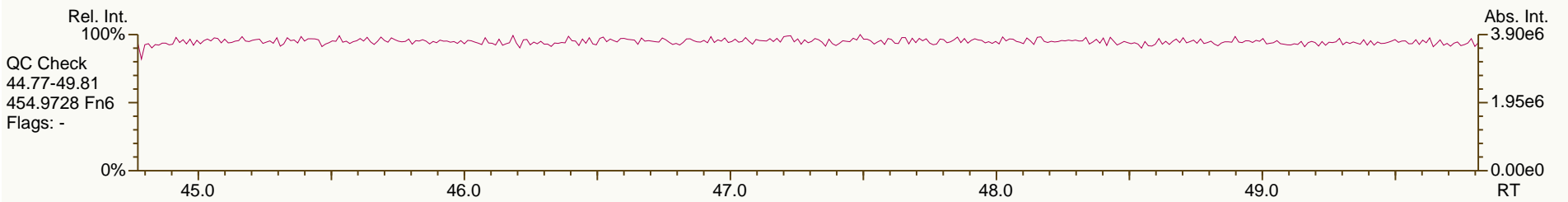
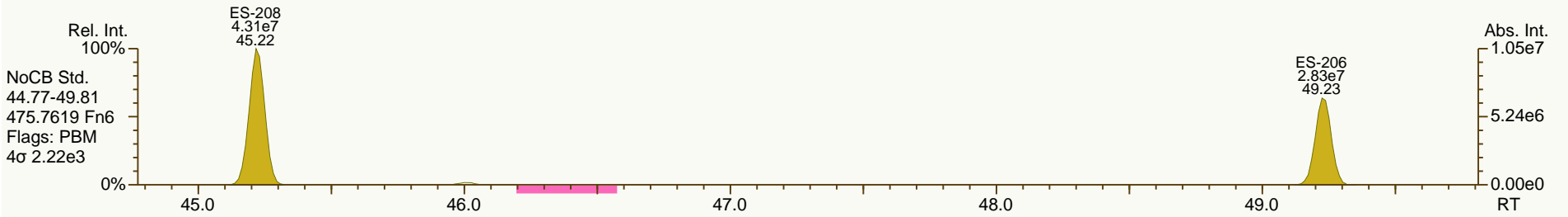
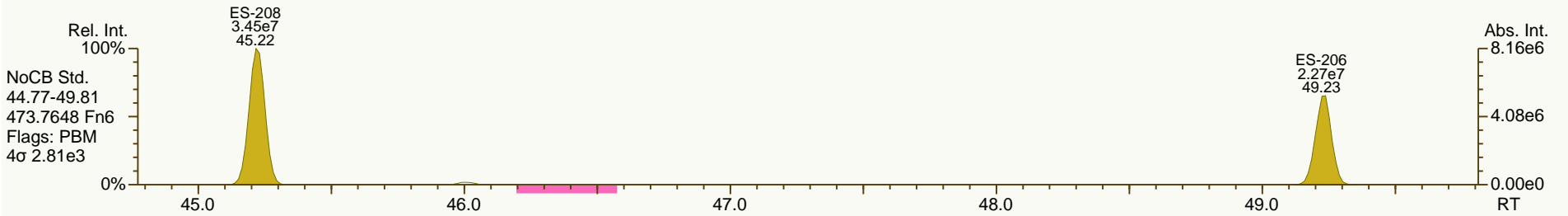
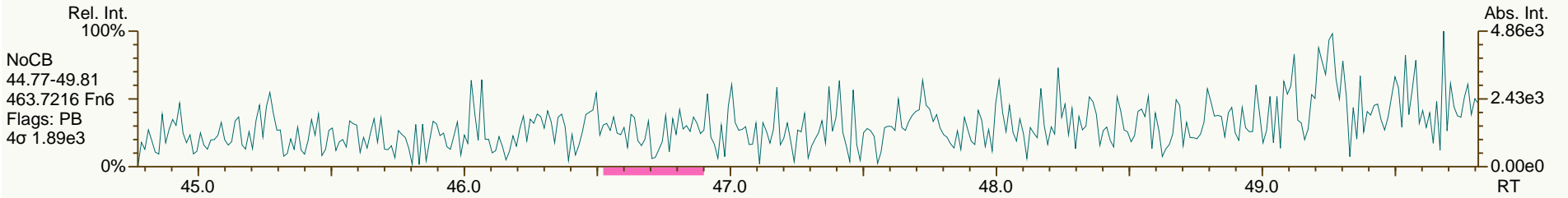
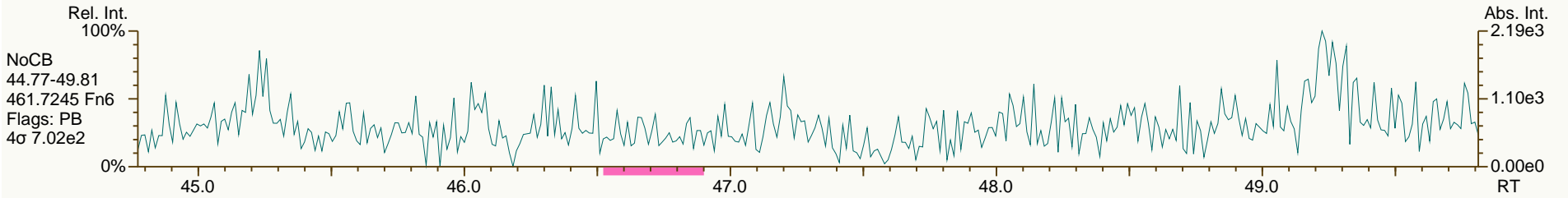
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 User: LKB Datafile: 140403X19



SGS ID: A6528\_11906\_PCB\_004  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

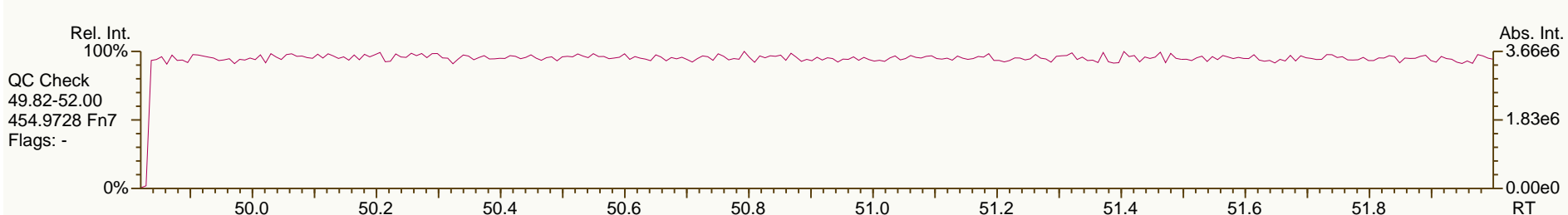
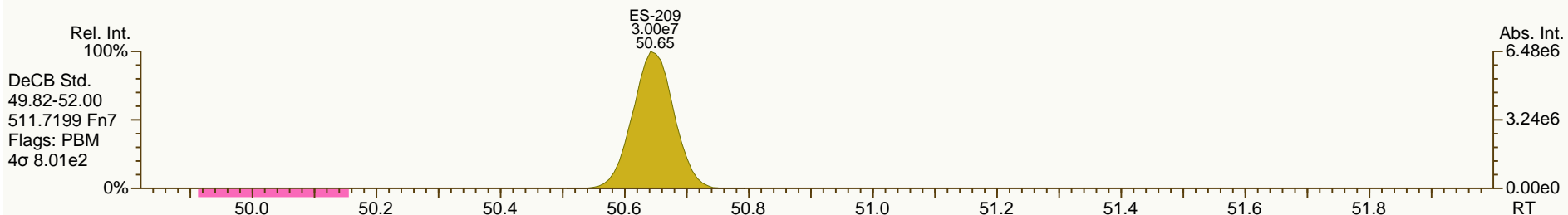
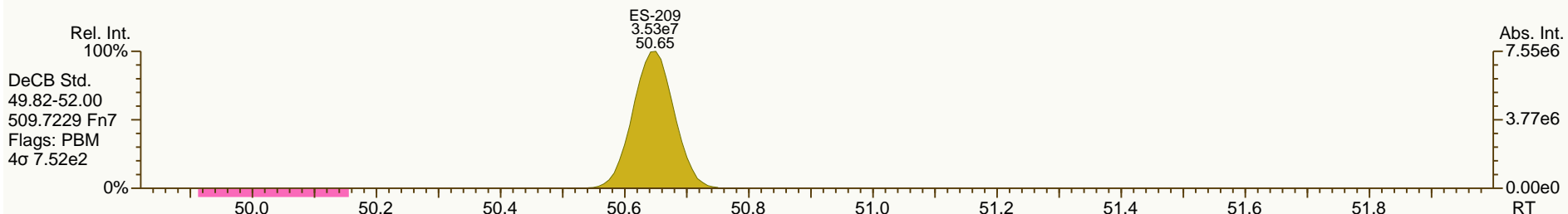
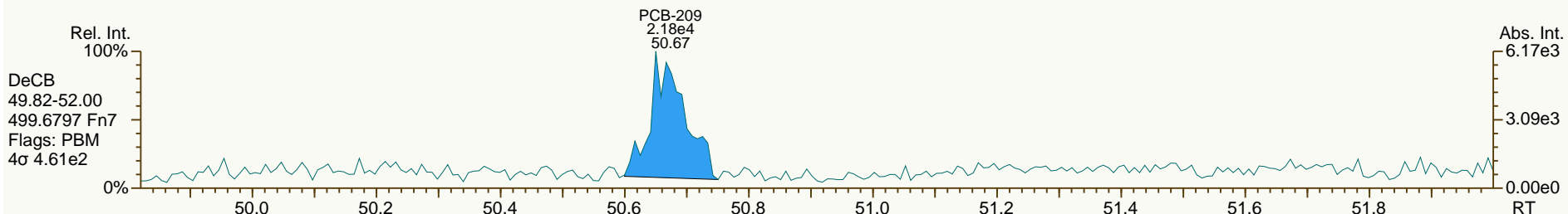
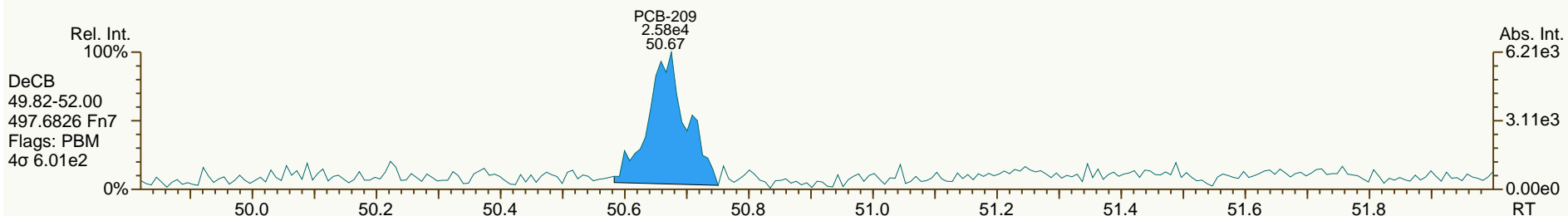
Acq: 04-Apr-2014 05:29:13  
 User: LKB Datafile: 140403X19



SGS ID: A6528\_11906\_PCB\_004  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: PB101.1-1SWMID-140319-N (DISSOLVED)  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 04-Apr-2014 05:29:13  
 User: LKB Datafile: 140403X19





## SGS Analytical Perspectives — Run Log

Project: A6528\_11906\_PCB

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	140402X01	Tray1:03	CS3_140402_PCB_XA	1.00	SIL 13-79-3	LKB, CEM	090-369	01-Apr-2014	23:29:14
2	140402X02	Tray1:20	OPR1_11906_PCB	1.00	0_11906_OPR001	LKB, CEM	758-213	02-Apr-2014	00:23:43
3	140402X03	Tray1:02	SBS_140402_PCB_XA	1.00	SIL 13-42-1	LKB, CEM	542-620	02-Apr-2014	01:18:59
4	140402X04	Tray1:21	MB1_11906_PCB_TLX	1.00	Method Blank	LKB, CEM	122-856	02-Apr-2014	02:14:08
5	140402X10	Tray1:27	A6528_11906_PCB_001	1.22	PB099-1SWMID-140319-N (TOTAL)	LKB, CEM	065-928	02-Apr-2014	07:45:18
6	140402X11	Tray1:28	A6528_11906_PCB_002	0.97	PB099-1SWMID-140319-MD (TOTAL)	LKB, CEM	334-515	02-Apr-2014	08:40:36
7	140403X04	Tray1:03	CS3_140403_PCB_XB	1.00	SIL 13-79-3	LKB, CEM	739-978	03-Apr-2014	15:20:55
8	140403X05	Tray1:02	SBS_140403_PCB_XC	1.00	SIL 13-42-1	LKB, CEM	701-763	03-Apr-2014	16:27:17
9	140403X06	Tray1:21	MB1_11906_PCB_TLX-RJ	1.00	Method Blank	LKB, CEM	441-024	03-Apr-2014	17:21:41
10	140403X11	Tray1:03	CS3_140403_PCB_XC	1.00	SIL 13-79-3	LKB, CEM	980-763	03-Apr-2014	22:09:02
11	140403X18	Tray1:41	A6528_11906_PCB_003	0.96	PB101.1-1SWMID-140319-N (TOTAL)	LKB, CEM	388-879	04-Apr-2014	04:34:05
12	140403X19	Tray1:42	A6528_11906_PCB_004	1.12	PB101.1-1SWMID-140319-N (DISSOLVED)	LKB, CEM	118-899	04-Apr-2014	05:29:13

PCB QC Summary		SGS Environmental Services			Processed: 6-Apr-2014 16:09		
Lab ID:	CS3_140402_PCB_XA						
Acquired:	01-APR-2014 23:29			ICAL: MM7_PCB_10292013_20DEC2013			
Datafile:	140402X01						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.69	8.22E+07	0.80 Y	1.15	1.19	3.7%	
PCB-81 344'5'-TeCB	32.21	7.99E+07	0.80 Y	1.12	1.18	5.1%	
PCB-105 233'44'-PeCB	35.67	6.06E+07	0.62 Y	1.11	1.11	-0.4%	
PCB-114 2344'5'-PeCB	35.13	6.70E+07	0.62 Y	1.20	1.20	-0.1%	
PCB-118 23'44'5'-PeCB	34.67	6.46E+07	0.62 Y	1.19	1.19	-0.3%	
PCB-123 23'44'5'-PeCB	34.39	6.52E+07	0.62 Y	1.21	1.21	-0.2%	
PCB-126 33'44'5'-PeCB	38.28	5.94E+07	0.63 Y	1.11	1.20	8.6%	
PCB-156/157 ...-HxCB	40.82	1.02E+08	1.22 Y	1.10	1.09	-0.7%	
PCB-167 23'44'55'-HxCB	39.84	5.72E+07	1.24 Y	1.16	1.16	-0.6%	
PCB-169 33'44'55'-HxCB	43.54	5.06E+07	1.23 Y	1.12	1.11	-1.3%	
PCB-189 233'44'55'-HpCB	45.66	5.03E+07	1.07 Y	1.07	1.10	2.5%	
PCB-209 DeCB	50.71	3.26E+07	1.17 Y	1.11	1.08	-3.4%	
ES PCB-1	11.82	2.35E+08	3.34 Y	1.19	1.14	-4.2%	
ES PCB-3	14.10	2.20E+08	3.38 Y	1.09	1.07	-1.6%	
ES PCB-4	14.35	1.17E+08	1.60 Y	0.52	0.57	8.8%	
ES PCB-15	20.04	2.20E+08	1.58 Y	1.04	1.07	2.9%	
ES PCB-19	17.42	1.02E+08	1.07 Y	0.51	0.50	-2.0%	
ES PCB-37	26.35	1.61E+08	1.12 Y	1.66	1.56	-5.9%	
ES PCB-54	20.32	9.82E+07	0.80 Y	0.86	0.95	10.9%	
ES PCB-77	32.67	1.38E+08	0.83 Y	1.38	1.34	-3.2%	
ES PCB-81	32.20	1.36E+08	0.79 Y	1.37	1.32	-3.2%	
ES PCB-104	25.28	8.82E+07	1.66 Y	0.80	0.95	18.4%	
ES PCB-105	35.65	1.09E+08	1.62 Y	1.20	1.18	-1.8%	
ES PCB-114	35.11	1.11E+08	1.61 Y	1.22	1.20	-1.3%	
ES PCB-118	34.64	1.09E+08	1.61 Y	1.16	1.18	1.4%	
ES PCB-123	34.36	1.08E+08	1.61 Y	1.19	1.16	-1.9%	
ES PCB-126	38.26	9.88E+07	1.57 Y	1.03	1.07	3.7%	
ES PCB-153	36.22	7.92E+07	1.33 Y	1.11	1.11	-0.8%	
ES PCB-155	30.22	1.13E+08	1.30 Y	1.59	1.57	-0.9%	
ES PCB-156/157	40.80	1.88E+08	1.27 Y	1.60	1.31	-18.0%	
ES PCB-167	39.82	9.90E+07	1.27 Y	1.67	1.38	-17.2%	
ES PCB-169	43.52	9.12E+07	1.29 Y	1.56	1.27	-18.2%	
ES PCB-170	43.03	5.86E+07	1.09 Y	0.95	1.09	15.1%	
ES PCB-180	41.96	6.98E+07	1.10 Y	1.14	1.30	14.2%	
ES PCB-188	35.10	7.92E+07	1.09 Y	0.94	1.11	17.7%	
ES PCB-189	45.64	9.13E+07	1.06 Y	1.58	1.70	7.3%	
ES PCB-202	39.63	7.26E+07	0.93 Y	0.97	1.01	4.5%	
ES PCB-205	47.80	6.67E+07	0.90 Y	1.24	1.24	-0.2%	
ES PCB-206	49.26	4.58E+07	0.80 Y	0.83	0.85	2.8%	
ES PCB-208	45.26	6.93E+07	0.80 Y	1.17	1.29	9.7%	
ES PCB-209	50.68	6.06E+07	1.19 Y	1.11	1.13	1.6%	

PCB QC Summary		SGS Environmental Services			Processed: 6-Apr-2014 16:09		
Lab ID:	CS3_140402_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013					
Acquired:	01-APR-2014 23:29						
Datafile:	140402X01						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.80	1.74E+08	1.12 Y	1.11	1.08	-2.5%	
SS PCB-111	32.68	1.14E+08	1.59 Y	1.03	1.06	2.5%	
SS PCB-178	37.66	4.69E+07	1.10 Y	0.62	0.59	-4.4%	
CS PCB-28	22.80	1.74E+08	1.12 Y	1.85	1.69	-8.3%	
CS PCB-111	32.68	1.14E+08	1.59 Y	1.22	1.23	0.6%	
CS PCB-178	37.66	4.69E+07	1.10 Y	0.58	0.65	12.5%	
JS PCB-9	16.32	2.06E+08	1.58 Y		-	-	
JS PCB-52	24.42	1.03E+08	0.81 Y		-	-	
JS PCB-101	30.39	9.27E+07	1.62 Y		-	-	
JS PCB-138	37.29	7.16E+07	1.33 Y		-	-	
JS PCB-194	47.40	5.38E+07	0.91 Y		-	-	
PCB-1 2-MoCB	11.83	1.29E+08	3.27 Y	0.95	1.09	14.6%	
PCB-3 4-MoCB	14.11	1.29E+08	3.26 Y	1.01	1.17	16.0%	
PCB-4 22'-DiCB	14.36	6.88E+07	1.57 Y	1.23	1.18	-4.6%	
PCB-15 44'-DiCB	20.05	1.22E+08	1.64 Y	1.02	1.11	8.7%	
PCB-19 22'6'-TrCB	17.44	5.71E+07	1.05 Y	1.15	1.12	-2.5%	
PCB-37 344'-TrCB	26.37	9.80E+07	1.01 Y	1.08	1.22	13.1%	
PCB-54 22'66'-TeCB	20.34	6.41E+07	0.81 Y	1.35	1.31	-3.3%	
PCB-104 22'466'-PeCB	25.30	6.07E+07	0.64 Y	1.43	1.38	-3.9%	
PCB-155 22'44'66'-HxCB	30.25	6.69E+07	1.27 Y	1.26	1.19	-5.9%	
PCB-188 22'34'566'-HpCB	35.12	4.57E+07	1.07 Y	1.27	1.15	-9.1%	
PCB-202 22'33'55'66'-OcCB	39.65	3.62E+07	0.92 Y	1.05	1.00	-5.2%	
PCB-205 233'44'55'6'-OcCB	47.82	3.43E+07	0.90 Y	1.06	1.03	-3.0%	
PCB-208 22'33'455'66'-NoCB	45.28	3.84E+07	0.78 Y	1.12	1.11	-1.2%	
PCB-206 22'33'44'55'6'-NoCB	49.28	2.52E+07	0.78 Y	1.11	1.10	-1.2%	
				-		-	
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				-		-	
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				-		-	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	

PCB QC Summary - Ax2 Detail				Processed: 6-Apr-2014 16:09			
Lab ID:	CS3_140402_PCB_XA			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	01-APR-2014 23:29						
Datafile:	140402X01						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.83	1.29E+08	3.27 Y	0.95	-	-	-
PCB-2 3-MoCB	13.93	1.30E+08	3.25 Y	1.03	1.18	13.9%	
PCB-3 4-MoCB	14.11	1.29E+08	3.26 Y	1.01	-	-	
PCB-4 22'-DiCB	14.36	6.88E+07	1.57 Y	1.23	-	-	
PCB-10 26-DiCB	14.54	1.12E+08	1.58 Y	1.98	1.92	-3.3%	
PCB-9 25-DiCB	16.33	1.07E+08	1.64 Y	0.95	0.97	2.7%	
PCB-7 24-DiCB	16.50	1.23E+08	1.63 Y	1.05	1.11	6.4%	
PCB-6 23'-DiCB	16.73	1.14E+08	1.64 Y	1.00	1.04	4.0%	
PCB-5 23-DiCB	17.03	1.15E+08	1.65 Y	1.00	1.04	4.2%	
PCB-8 24'-DiCB	17.15	1.18E+08	1.65 Y	1.03	1.07	3.3%	
PCB-14 35-DiCB	18.70	1.36E+08	1.65 Y	1.18	1.24	4.7%	
PCB-11 33'-DiCB	19.48	1.17E+08	1.66 Y	1.01	1.06	4.9%	
PCB-13/12 34'/34-DiCB	19.77	2.35E+08	1.64 Y	0.99	1.07	7.8%	
PCB-15 44'-DiCB	20.05	1.22E+08	1.64 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.44	5.71E+07	1.05 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.19	1.58E+08	1.05 Y	1.54	1.55	0.6%	
PCB-17 22'4-TrCB	19.59	6.66E+07	1.05 Y	1.31	1.30	-0.1%	
PCB-27 23'6-TrCB	19.78	9.18E+07	1.05 Y	1.82	1.80	-1.1%	
PCB-24 236-TrCB	19.92	9.04E+07	1.05 Y	1.72	1.77	2.7%	
PCB-16 22'3-TrCB	20.01	4.87E+07	1.07 Y	1.01	0.95	-5.3%	
PCB-32 24'6-TrCB	20.49	9.86E+07	1.05 Y	1.92	1.93	0.6%	
PCB-34 23'5'-TrCB	21.64	9.93E+07	1.01 Y	1.14	1.24	8.9%	
PCB-23 235-TrCB	21.79	1.01E+08	1.00 Y	1.16	1.25	8.4%	
PCB-26/29 23'5/245-TrCB	22.07	2.04E+08	1.01 Y	1.17	1.27	8.4%	
PCB-25 23'4-TrCB	22.27	1.05E+08	1.01 Y	1.16	1.31	12.9%	
PCB-31 24'5-TrCB	22.55	1.06E+08	1.01 Y	1.23	1.32	8.1%	
PCB-28/20 244'/233'-TrCB	22.83	1.98E+08	1.01 Y	1.13	1.23	8.7%	
PCB-21/33 234/23'4'-TrCB	23.01	2.07E+08	1.01 Y	1.17	1.29	9.5%	
PCB-22 234'-TrCB	23.39	9.53E+07	1.01 Y	1.08	1.19	9.9%	
PCB-36 33'5-TrCB	24.76	1.08E+08	1.01 Y	1.17	1.34	14.5%	
PCB-39 34'5-TrCB	25.09	1.08E+08	1.01 Y	1.21	1.34	10.7%	
PCB-38 345-TrCB	25.62	9.69E+07	1.02 Y	1.10	1.21	9.2%	
PCB-35 33'4-TrCB	26.01	9.33E+07	1.01 Y	1.04	1.16	11.6%	
PCB-37 344'-TrCB	26.37	9.80E+07	1.01 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.34	6.41E+07	0.81 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.32	1.16E+08	0.79 Y	0.88	0.85	-2.7%	
PCB-45 22'36'-TeCB	22.90	4.78E+07	0.78 Y	0.77	0.70	-8.3%	
PCB-51 22'46'-TeCB	22.97	6.11E+07	0.79 Y	0.86	0.90	4.5%	
PCB-46 22'36'-TeCB	23.19	4.63E+07	0.80 Y	0.70	0.68	-2.7%	
PCB-52 22'55'-TeCB	24.44	5.68E+07	0.77 Y	0.84	0.83	-1.1%	
PCB-73 23'5'6'-TeCB	24.57	7.87E+07	0.80 Y	1.11	1.16	4.1%	

Lab ID: - Ax2 Detail		Processed: 6-Apr-2014 16:09				
Lab ID:	CS3_140402_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	01-APR-2014 23:29					
Datafile:	140402X01					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.66	4.62E+07	0.80 Y	0.71	0.68	-4.4%
PCB-69/49 23'46/22'45'-TeCB	24.86	1.40E+08	0.79 Y	1.02	1.03	1.0%
PCB-48 22'45'-TeCB	25.14	5.76E+07	0.79 Y	0.84	0.85	0.9%
PCB-44/47/65 ...-TeCB	25.36	1.84E+08	0.79 Y	0.90	0.90	-0.2%
PCB-59/62/75 ...-TeCB	25.63	2.40E+08	0.79 Y	1.17	1.18	1.0%
PCB-42 22'34'-TeCB	25.80	5.20E+07	0.79 Y	0.76	0.76	0.3%
PCB-41 22'34'-TeCB	26.13	4.57E+07	0.78 Y	0.69	0.67	-3.4%
PCB-71/40 23'4'6/22'33'-TeCB	26.22	1.18E+08	0.79 Y	0.86	0.87	1.4%
PCB-64 23'4'-TeCB	26.42	8.46E+07	0.78 Y	1.22	1.24	1.8%
PCB-72 23'55'-TeCB	27.14	8.47E+07	0.80 Y	1.21	1.25	3.0%
PCB-68 23'45'-TeCB	27.39	8.96E+07	0.80 Y	1.28	1.32	3.1%
PCB-57 23'5'-TeCB	27.77	8.11E+07	0.80 Y	1.16	1.19	2.4%
PCB-58 23'5'-TeCB	27.97	8.26E+07	0.80 Y	1.18	1.21	3.0%
PCB-67 23'45'-TeCB	28.13	8.76E+07	0.79 Y	1.26	1.29	2.3%
PCB-63 23'4'-TeCB	28.35	9.14E+07	0.80 Y	1.30	1.34	3.5%
PCB-61/70/74/76 ...-TeCB	28.64	3.32E+08	0.80 Y	1.20	1.22	1.8%
PCB-66 23'44'-TeCB	28.93	7.87E+07	0.80 Y	1.10	1.16	5.0%
PCB-55 23'3'4'-TeCB	29.07	7.84E+07	0.80 Y	1.12	1.15	2.9%
PCB-56 23'3'4'-TeCB	29.51	7.79E+07	0.80 Y	1.11	1.15	3.1%
PCB-60 23'44'-TeCB	29.70	7.92E+07	0.80 Y	1.14	1.16	2.5%
PCB-80 33'55'-TeCB	30.02	9.19E+07	0.81 Y	1.31	1.35	2.9%
PCB-79 33'45'-TeCB	31.35	9.52E+07	0.80 Y	1.31	1.40	7.1%
PCB-78 33'45'-TeCB	31.84	7.65E+07	0.80 Y	1.06	1.12	5.9%
PCB-104 22'466'-PeCB	25.30	6.07E+07	0.64 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.62	5.24E+07	0.64 Y	1.23	1.19	-3.3%
PCB-103 22'45'6'-PeCB	27.31	5.16E+07	0.61 Y	0.93	0.96	2.9%
PCB-94 22'356'-PeCB	27.50	4.33E+07	0.61 Y	0.80	0.80	0.4%
PCB-95 22'35'6'-PeCB	27.88	4.69E+07	0.61 Y	0.87	0.87	0.4%
PCB-100/93 22'44'6/22'356'-PeC	28.09	9.42E+07	0.62 Y	0.86	0.87	1.1%
PCB-102 22'456'-PeCB	28.20	4.63E+07	0.61 Y	0.97	0.86	-11.3%
PCB-98 22'34'6'-PeCB	28.27	4.77E+07	0.62 Y	0.76	0.89	16.8%
PCB-88 22'346'-PeCB	28.58	4.36E+07	0.61 Y	0.80	0.81	1.3%
PCB-91 22'34'6'-PeCB	28.64	4.92E+07	0.63 Y	0.94	0.91	-3.4%
PCB-84 22'33'6'-PeCB	28.83	3.90E+07	0.62 Y	0.72	0.72	1.2%
PCB-89 22'346'-PeCB	29.25	4.16E+07	0.61 Y	0.76	0.77	1.1%
PCB-121 23'45'6'-PeCB	29.59	6.60E+07	0.62 Y	1.20	1.22	2.0%
PCB-92 22'355'-PeCB	29.91	4.45E+07	0.61 Y	0.82	0.83	0.6%
PCB-113/90/101 ...-PeCB	30.39	1.58E+08	0.62 Y	0.99	0.97	-1.2%
PCB-83 22'33'5'-PeCB	30.83	3.93E+07	0.61 Y	0.71	0.73	2.0%

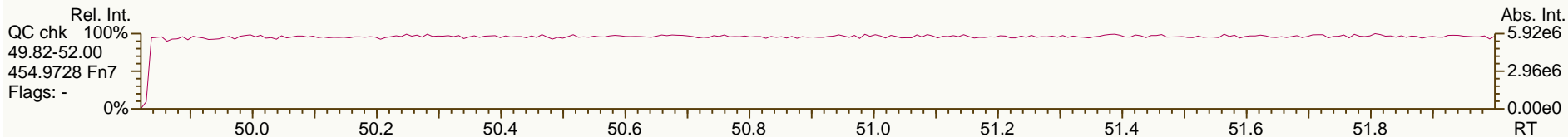
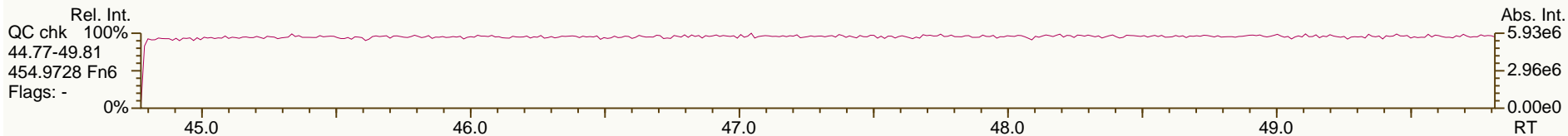
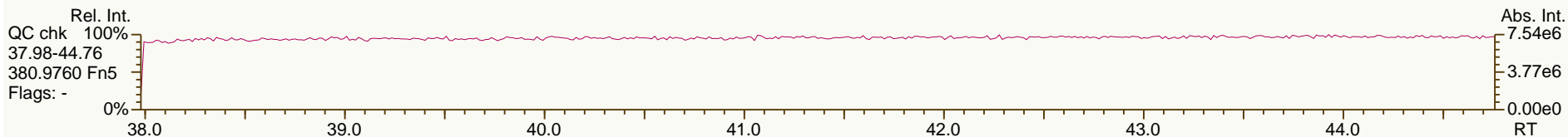
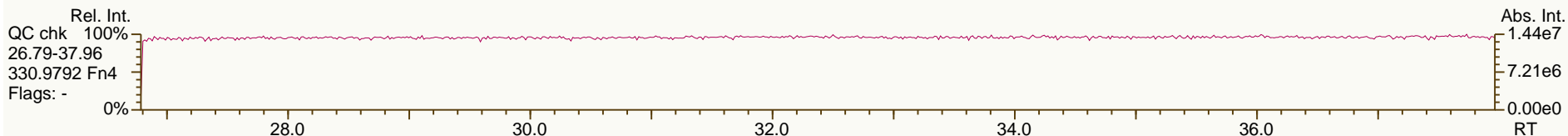
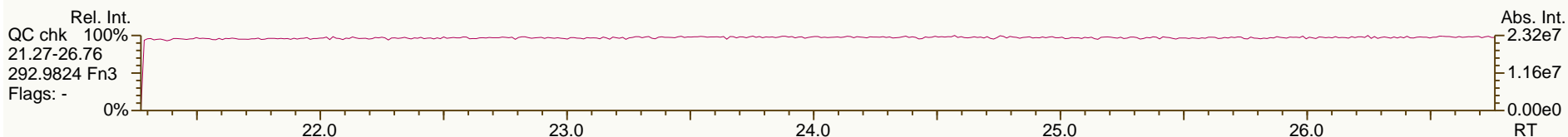
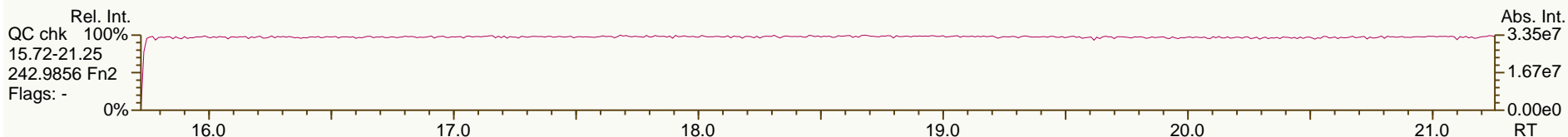
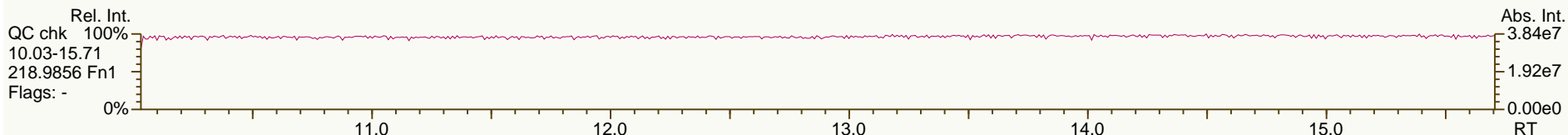
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Lab ID:	CS3_140402_PCB_XA			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	01-APR-2014 23:29						
Datafile:	140402X01						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	30.93	4.89E+07	0.62 Y	0.92	0.91		-1.5%
PCB-112 233'56-PeCB	31.03	6.33E+07	0.63 Y	1.17	1.17		0.5%
PCB-108/119/86/97/125...-PeCB	31.37	3.20E+08	0.62 Y	0.98	0.99		1.1%
PCB-117 234'56-PeCB	31.90	5.82E+07	0.61 Y	1.14	1.08		-5.1%
PCB-116/85 23456/22'344'-PeCB	32.00	1.07E+08	0.61 Y	0.94	0.99		5.6%
PCB-110 233'4'6-PeCB	32.11	6.08E+07	0.61 Y	1.12	1.13		0.9%
PCB-115 2344'6-PeCB	32.20	6.37E+07	0.62 Y	1.16	1.18		2.0%
PCB-82 22'33'4-PeCB	32.40	3.75E+07	0.61 Y	0.70	0.69		-0.3%
PCB-111 233'55'-PeCB	32.71	6.61E+07	0.63 Y	1.22	1.23		0.5%
PCB-120 23'455'-PeCB	33.10	6.66E+07	0.61 Y	1.21	1.23		1.9%
PCB-107/124 ...-PeCB	34.07	1.20E+08	0.61 Y	1.10	1.11		1.3%
PCB-109 233'46-PeCB	34.28	6.89E+07	0.61 Y	1.25	1.28		2.0%
PCB-106 233'45-PeCB	34.50	5.99E+07	0.61 Y	1.11	1.11		0.5%
PCB-122 233'4'5'-PeCB	34.96	5.62E+07	0.62 Y	0.99	1.01		1.5%
PCB-127 33'455'-PeCB	36.90	6.07E+07	0.63 Y	1.10	1.11		1.3%
PCB-155 22'44'66'-HxCB	30.25	6.69E+07	1.27 Y	1.26	-		-
PCB-152 22'3566'-HxCB	30.41	6.08E+07	1.26 Y	1.17	1.08		-8.1%
PCB-150 22'34'66'-HxCB	30.55	6.28E+07	1.27 Y	1.18	1.11		-5.3%
PCB-136 22'33'66'-HxCB	30.86	5.73E+07	1.28 Y	1.07	1.02		-4.8%
PCB-145 22'3466'-HxCB	31.13	5.88E+07	1.26 Y	1.11	1.04		-6.5%
PCB-148 22'34'56'-HxCB	32.40	4.35E+07	1.27 Y	1.18	1.10		-7.0%
PCB-151/135 ...-HxCB	32.92	8.35E+07	1.27 Y	1.14	1.05		-7.4%
PCB-154 22'44'56'-HxCB	33.12	4.93E+07	1.26 Y	1.34	1.24		-7.3%
PCB-144 22'345'6-HxCB	33.39	4.30E+07	1.27 Y	1.18	1.09		-8.2%
PCB-147/149 ...-HxCB	33.69	8.63E+07	1.26 Y	1.18	1.09		-7.3%
PCB-134 22'33'56-HxCB	33.87	3.11E+07	1.26 Y	0.92	0.79		-14.9%
PCB-143 22'3456'-HxCB	33.95	4.29E+07	1.27 Y	1.13	1.08		-4.1%
PCB-139/140 ...-HxCB	34.21	8.78E+07	1.26 Y	1.21	1.11		-8.0%
PCB-131 22'33'46-HxCB	34.39	3.70E+07	1.27 Y	1.03	0.93		-8.9%
PCB-142 22'3456-HxCB	34.53	3.63E+07	1.26 Y	0.99	0.92		-7.5%
PCB-132 22'33'46'-HxCB	34.76	3.79E+07	1.26 Y	1.03	0.96		-7.2%
PCB-133 22'33'55'-HxCB	35.17	4.05E+07	1.26 Y	1.13	1.02		-9.6%
PCB-165 233'55'6-HxCB	35.51	5.22E+07	1.27 Y	1.41	1.32		-6.5%
PCB-146 22'34'55'-HxCB	35.72	4.52E+07	1.27 Y	1.20	1.14		-5.0%
PCB-161 233'45'6-HxCB	35.84	5.59E+07	1.27 Y	1.52	1.41		-7.3%
PCB-153/168 ...-HxCB	36.27	1.11E+08	1.29 Y	1.46	1.40		-4.0%
PCB-141 22'3455'-HxCB	36.41	4.02E+07	1.21 Y	1.09	1.02		-6.7%
PCB-130 22'33'45'-HxCB	36.76	3.56E+07	1.27 Y	0.97	0.90		-7.5%
PCB-137 22'344'5-HxCB	36.96	4.50E+07	1.27 Y	1.16	1.14		-2.3%
PCB-164 233'4'5'6-HxCB	37.04	5.47E+07	1.28 Y	1.50	1.38		-7.8%
PCB-163/138/129 ...-HxCB	37.33	1.34E+08	1.26 Y	1.19	1.13		-5.0%

Lab ID: - Ax2 Detail				Processed: 6-Apr-2014 16:09		
Lab ID:	CS3_140402_PCB_XA	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	01-APR-2014 23:29					
Datafile:	140402X01					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	37.47	5.13E+07	1.27 Y	1.52	1.29	-14.6%
PCB-158 233'44'6-HxCB	37.65	6.01E+07	1.27 Y	1.66	1.52	-8.7%
PCB-128/166 ...-HxCB	38.38	8.76E+07	1.20 Y	0.90	0.88	-1.6%
PCB-159 233'455'-HxCB	39.19	5.31E+07	1.22 Y	1.11	1.07	-3.8%
PCB-162 233'4'55'-HxCB	39.43	5.37E+07	1.22 Y	1.07	1.09	1.2%
PCB-188 22'34'566'-HpCB	35.12	4.57E+07	1.07 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.40	4.23E+07	1.07 Y	1.16	1.07	-8.0%
PCB-184 22'344'66'-HpCB	35.86	4.07E+07	1.06 Y	1.13	1.03	-8.8%
PCB-176 22'33'466'-HpCB	36.16	4.50E+07	1.07 Y	1.23	1.14	-7.8%
PCB-186 22'34566'-HpCB	36.56	4.18E+07	1.07 Y	1.13	1.05	-6.3%
PCB-178 22'33'55'6-HpCB	37.68	2.98E+07	1.06 Y	0.84	0.75	-10.7%
PCB-175 22'33'45'6-HpCB	38.23	3.78E+07	1.05 Y	1.07	1.08	0.9%
PCB-187 22'34'55'6-HpCB	38.45	4.04E+07	1.06 Y	1.14	1.16	1.6%
PCB-182 22'344'56'-HpCB	38.63	4.20E+07	1.06 Y	1.18	1.20	2.5%
PCB-183 22'344'5'6-HpCB	38.98	4.32E+07	1.05 Y	1.20	1.24	2.7%
PCB-185 22'3455'6-HpCB	39.06	3.63E+07	1.06 Y	1.06	1.04	-1.9%
PCB-174 22'33'456'-HpCB	39.17	3.49E+07	1.05 Y	0.99	1.00	1.0%
PCB-177 22'33'45'6'-HpCB	39.55	3.26E+07	1.06 Y	0.95	0.93	-1.7%
PCB-181 22'344'56'-HpCB	39.89	3.78E+07	1.05 Y	1.09	1.08	-0.6%
PCB-171/173 ...-HpCB	40.08	6.63E+07	1.05 Y	0.95	0.95	0.1%
PCB-172 22'33'455'-HpCB	41.43	3.42E+07	1.06 Y	0.99	0.98	-0.9%
PCB-192 233'455'6-HpCB	41.67	4.54E+07	1.05 Y	1.29	1.30	1.1%
PCB-180/193 ...-HpCB	41.95	8.66E+07	1.06 Y	1.26	1.24	-1.6%
PCB-191 233'44'5'6-HpCB	42.28	4.86E+07	1.05 Y	1.40	1.39	-0.2%
PCB-170 22'33'44'5-HpCB	43.05	3.28E+07	1.06 Y	1.14	1.12	-1.4%
PCB-190 233'44'56-HpCB	43.50	4.59E+07	1.05 Y	1.66	1.57	-5.5%
PCB-202 22'33'55'66'-OcCB	39.65	3.62E+07	0.92 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.44	4.05E+07	0.92 Y	1.22	1.12	-8.7%
PCB-204 22'344'566'-OcCB	41.01	3.81E+07	0.91 Y	1.12	1.05	-5.9%
PCB-197 22'33'44'66'-OcCB	41.20	4.07E+07	0.90 Y	1.19	1.12	-5.9%
PCB-200 22'33'4566'-OcCB	41.29	3.86E+07	0.92 Y	1.11	1.06	-4.0%
PCB-198/199 ...-OcCB	43.62	5.19E+07	0.91 Y	0.81	0.72	-11.6%
PCB-196 22'33'44'56'-OcCB	44.19	2.74E+07	0.90 Y	0.83	0.75	-9.6%
PCB-203 22'344'55'6-OcCB	44.36	2.81E+07	0.92 Y	0.87	0.77	-11.5%
PCB-195 22'33'44'56-OcCB	45.48	2.43E+07	0.89 Y	0.77	0.73	-5.1%
PCB-194 22'33'44'55'-OcCB	47.42	2.71E+07	0.90 Y	0.84	0.81	-3.8%
PCB-205 233'44'55'6-OcCB	47.82	3.43E+07	0.90 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.28	3.84E+07	0.78 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.06	3.97E+07	0.78 Y	1.19	1.15	-3.7%
PCB-206 22'33'44'55'6-NoCB	49.28	2.52E+07	0.78 Y	1.11	-	-

SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 01-Apr-2014 23:29:14  
 User: LKB Datafile: 140402X01

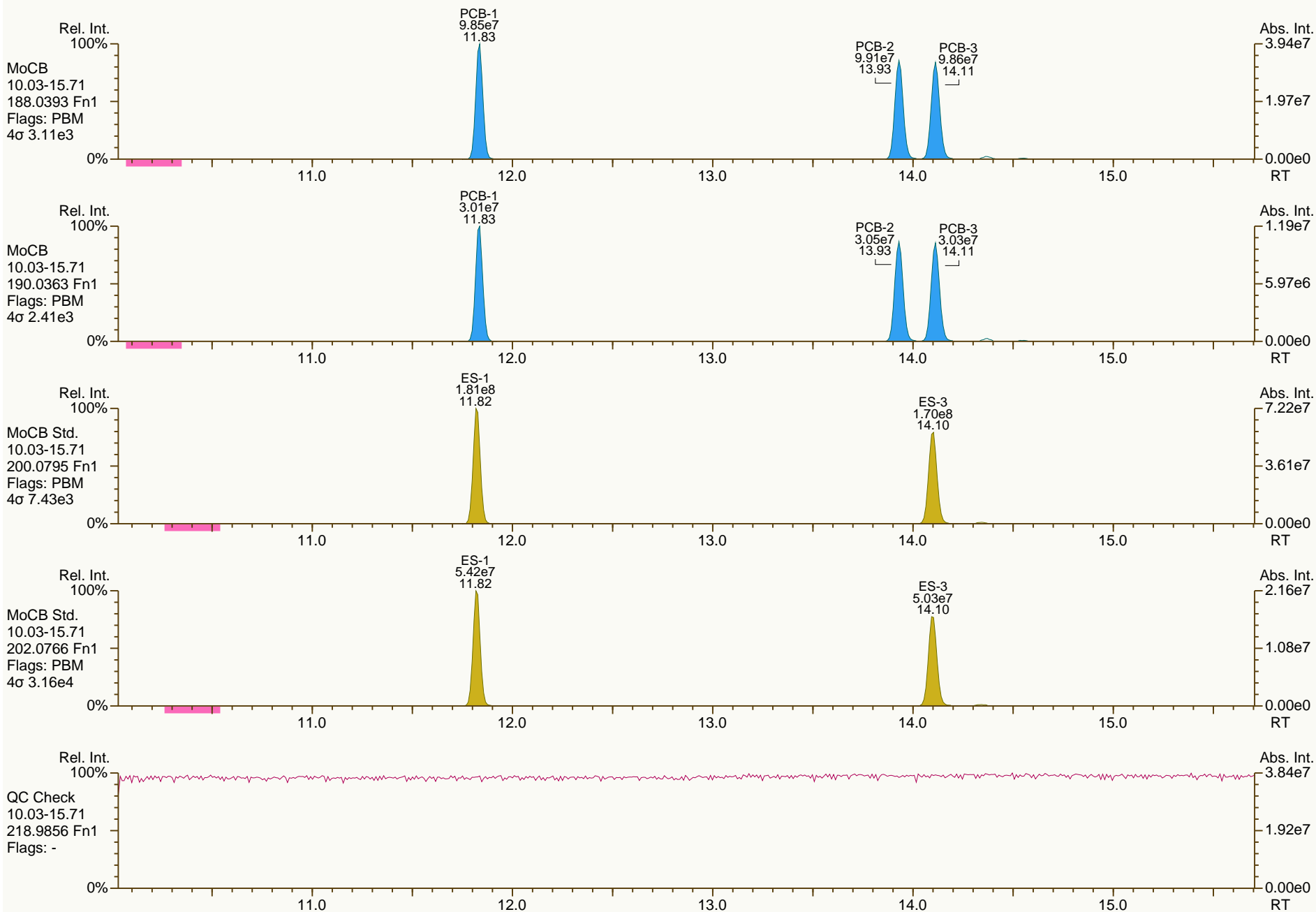




SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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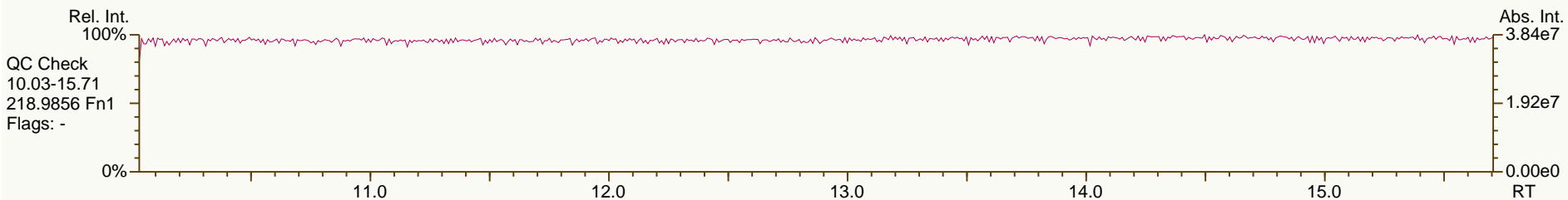
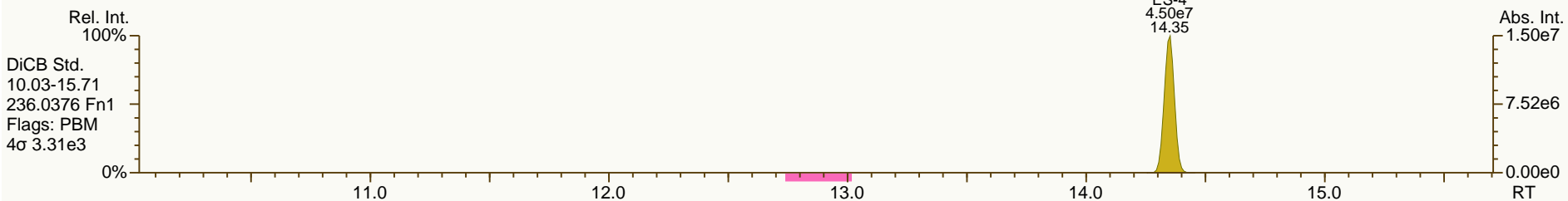
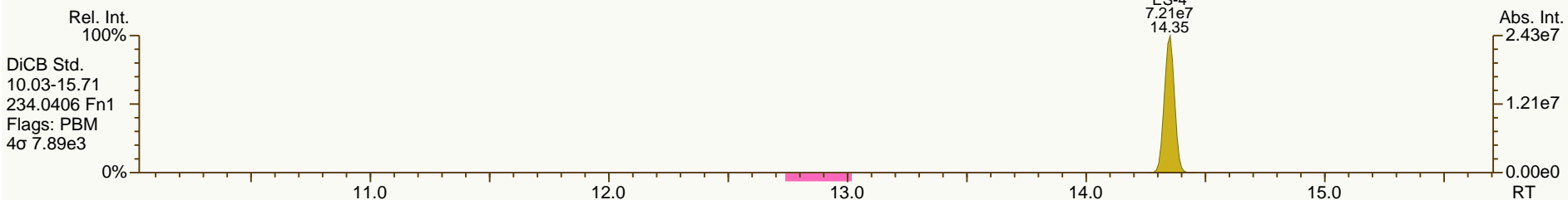
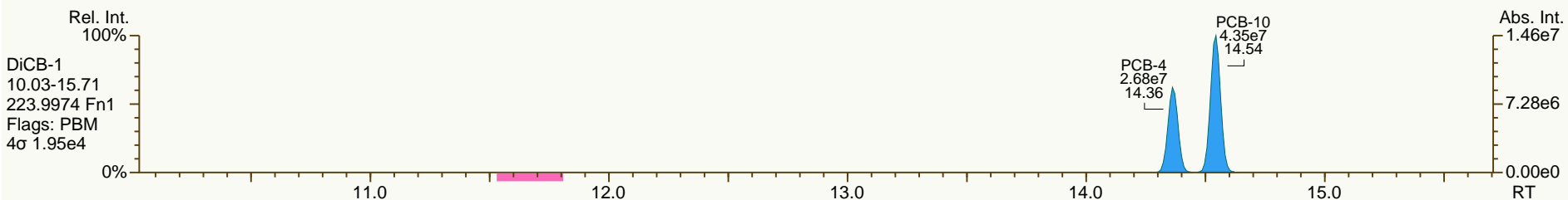
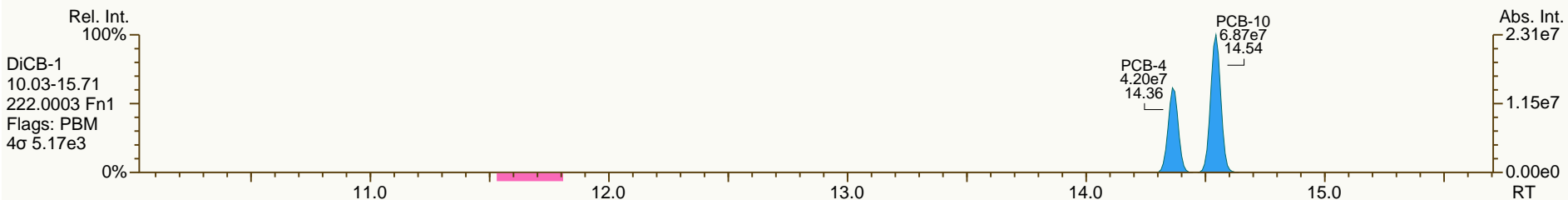
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

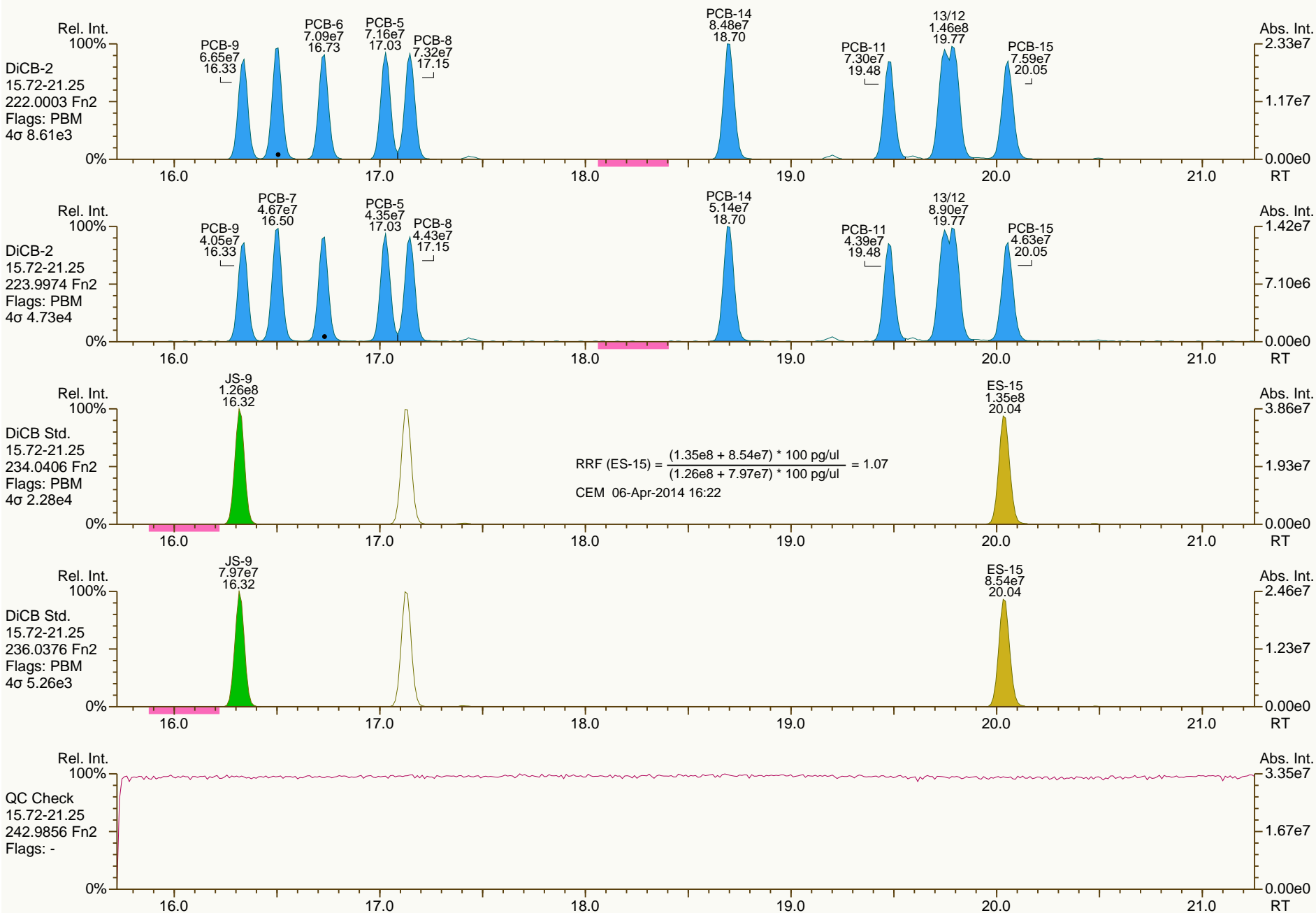
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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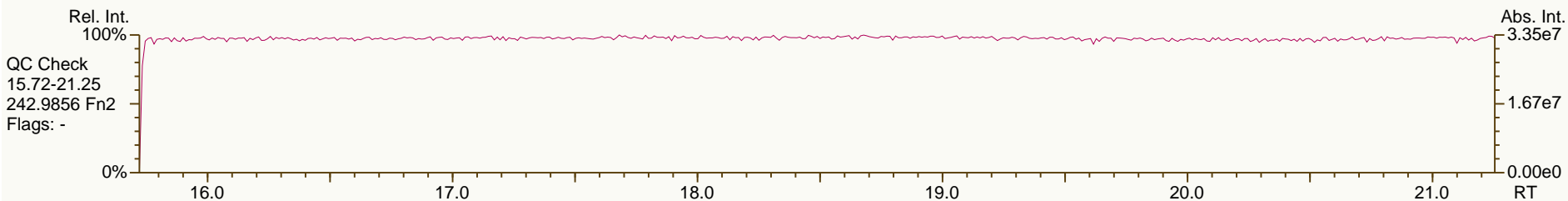
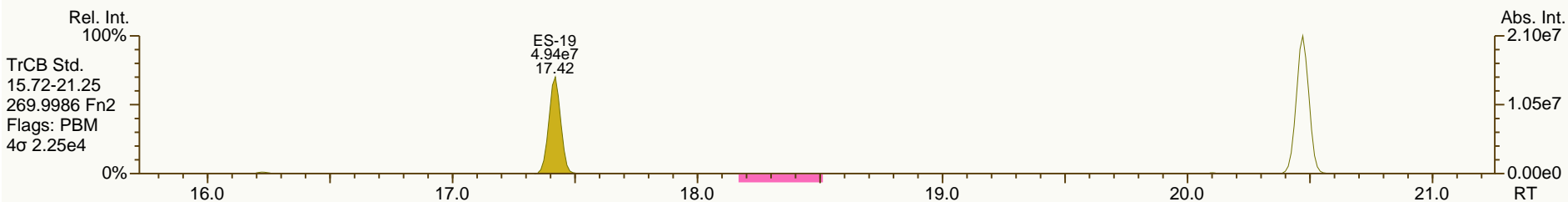
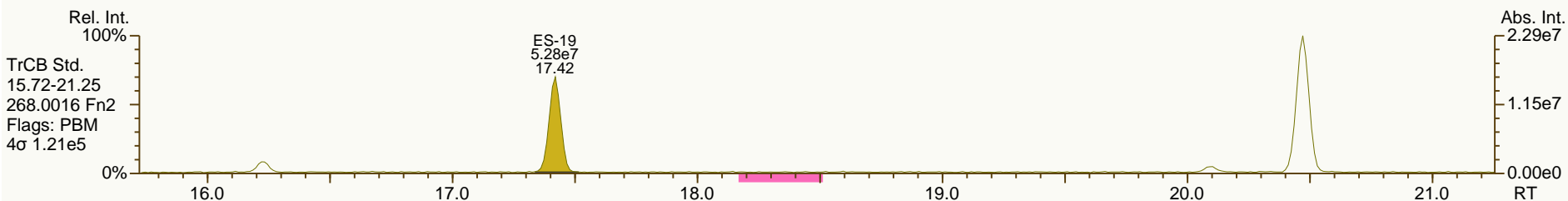
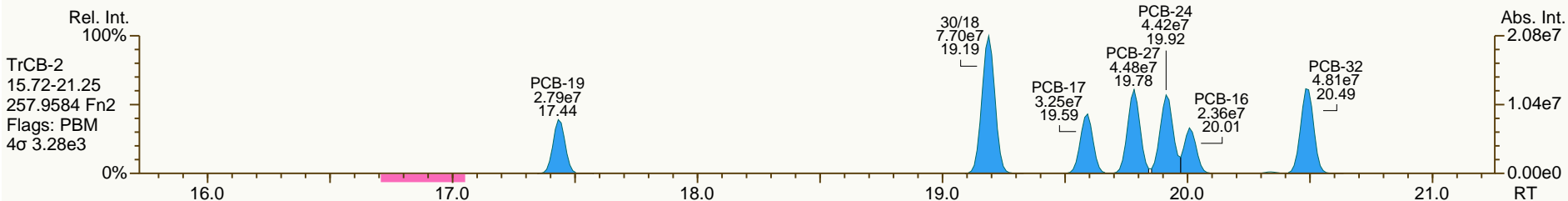
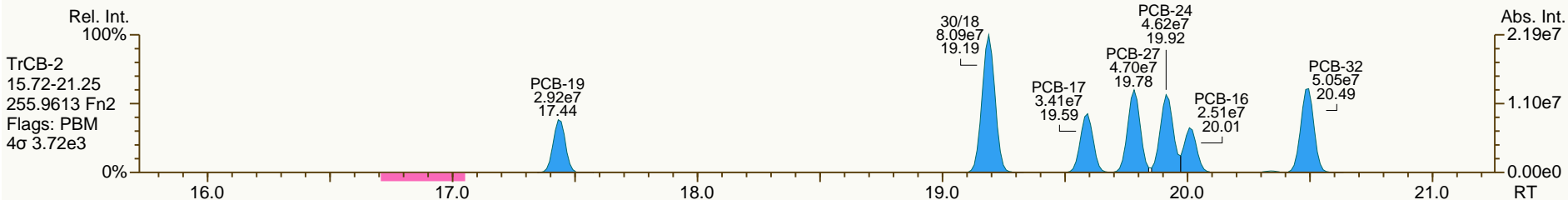
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CEM 06-Apr-2014 16:22

SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

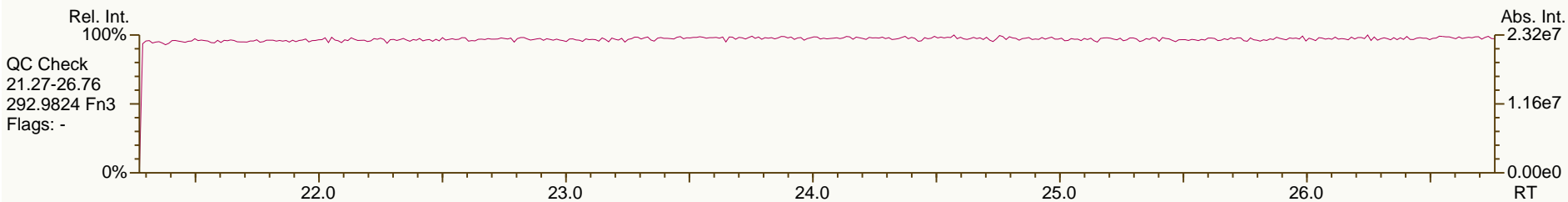
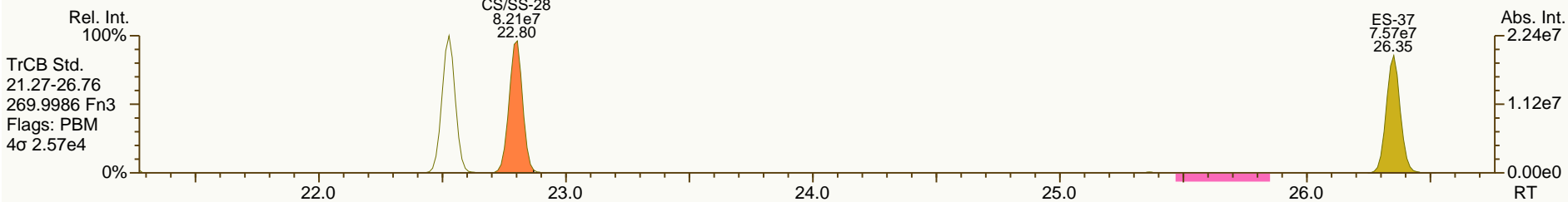
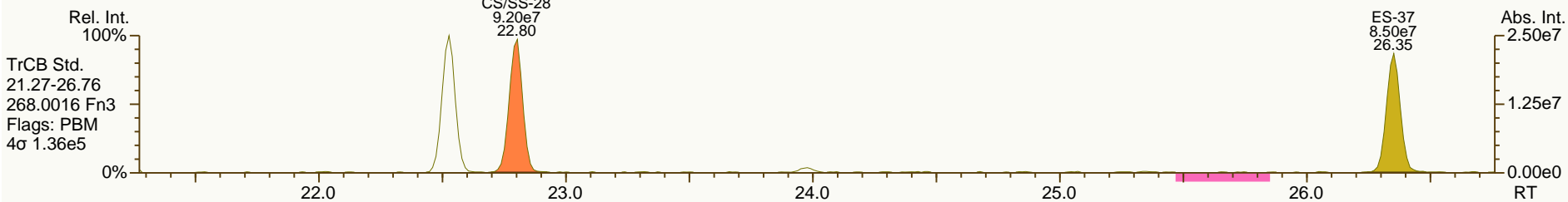
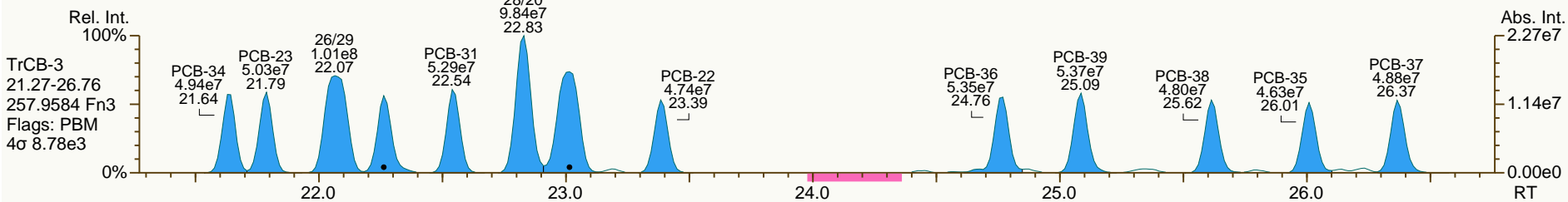
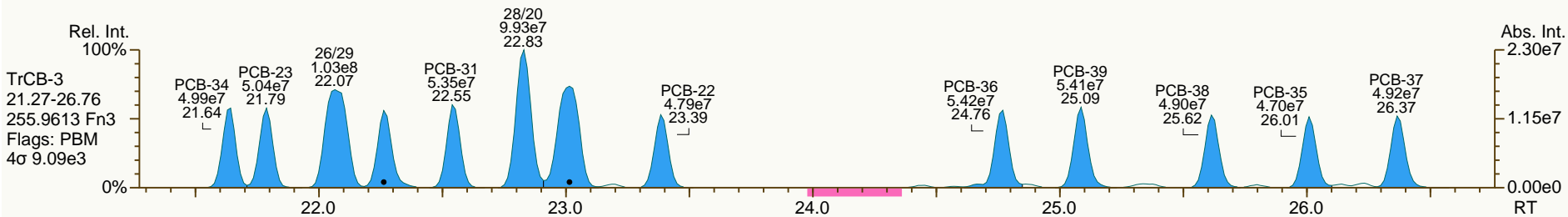
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

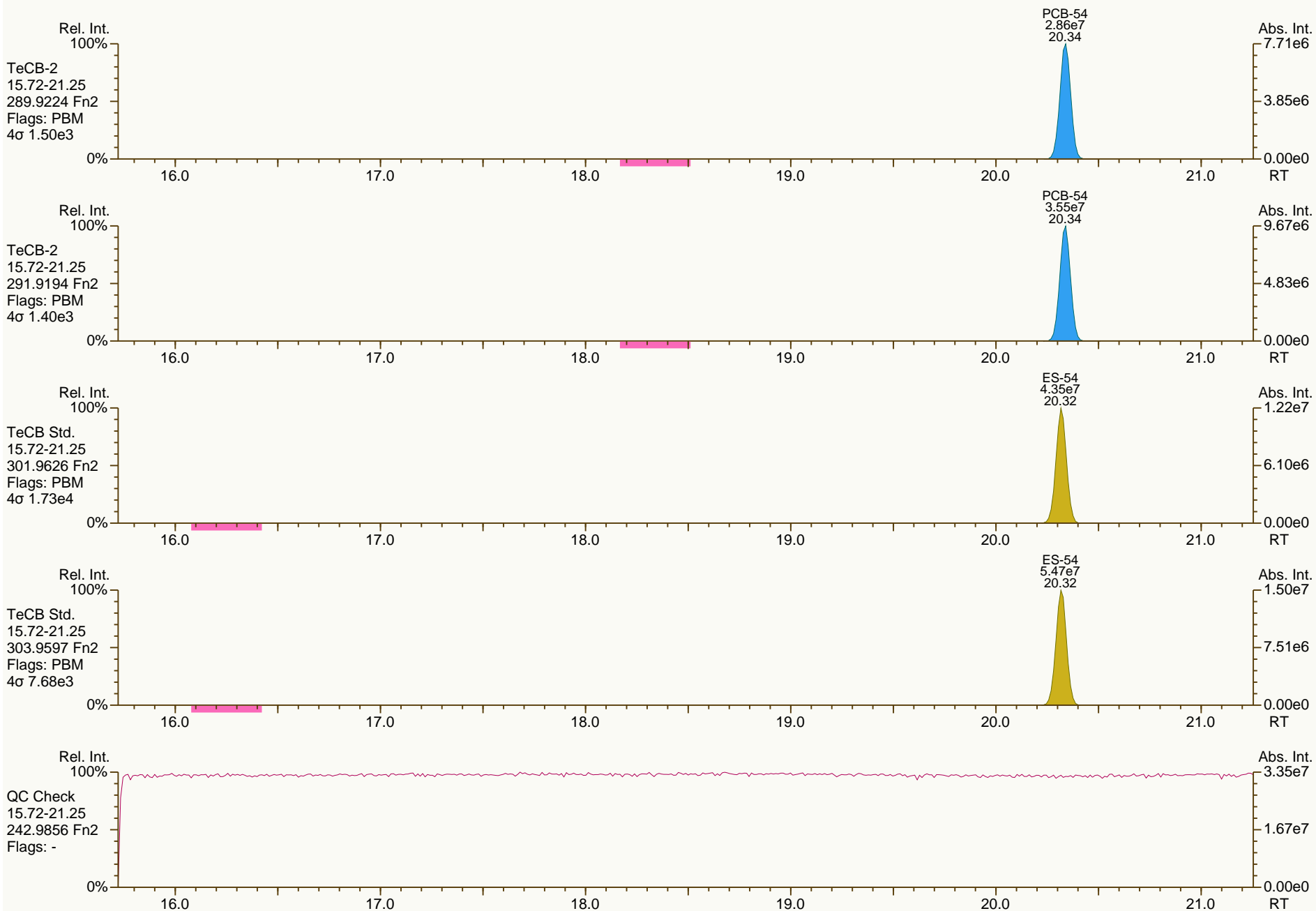
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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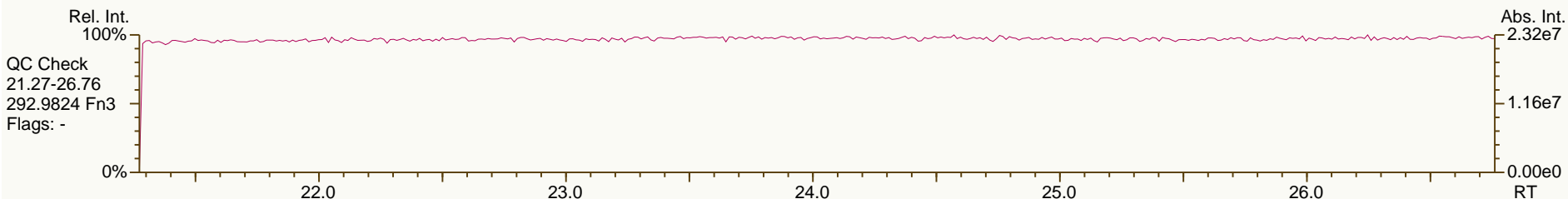
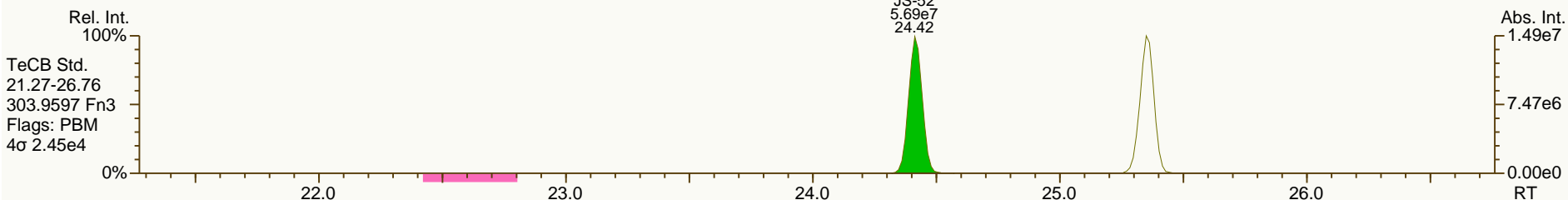
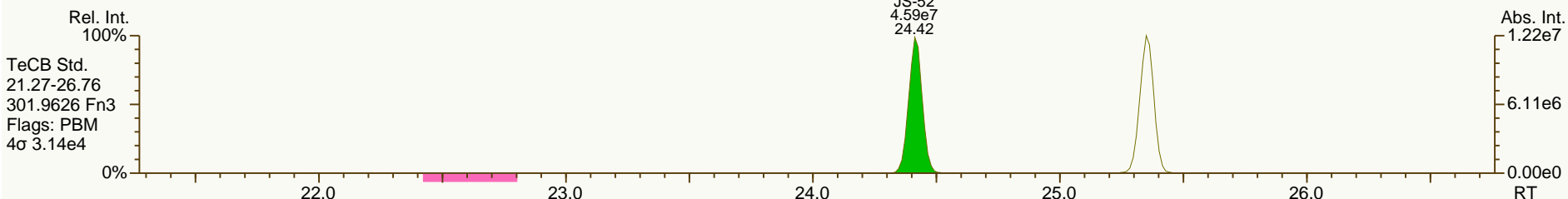
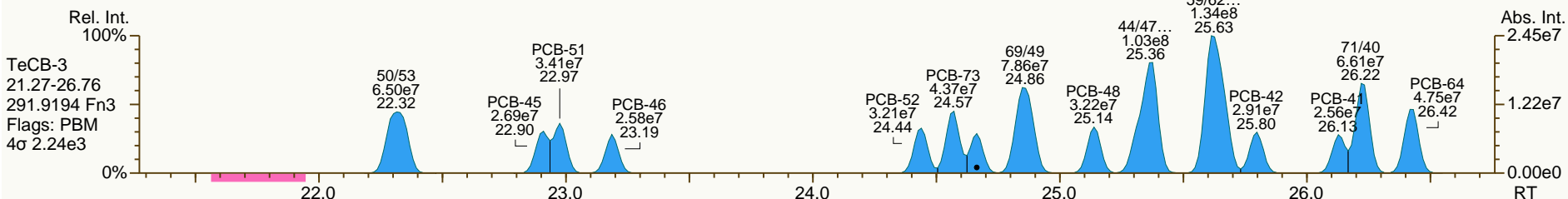
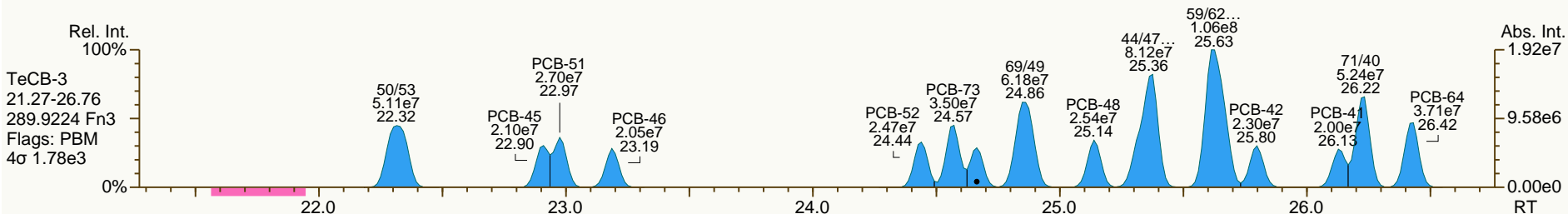
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

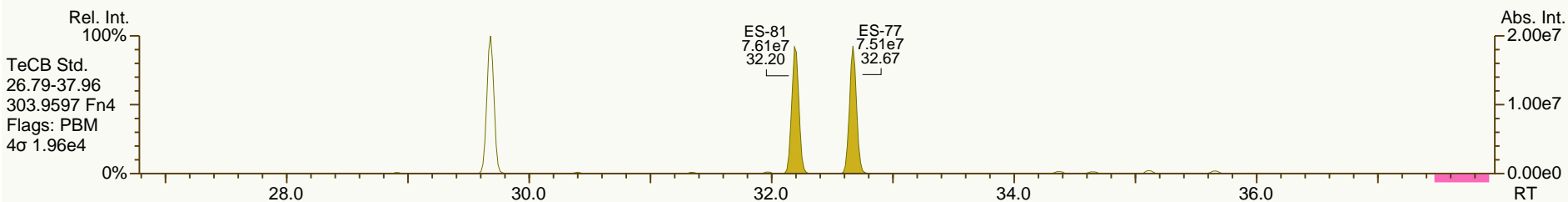
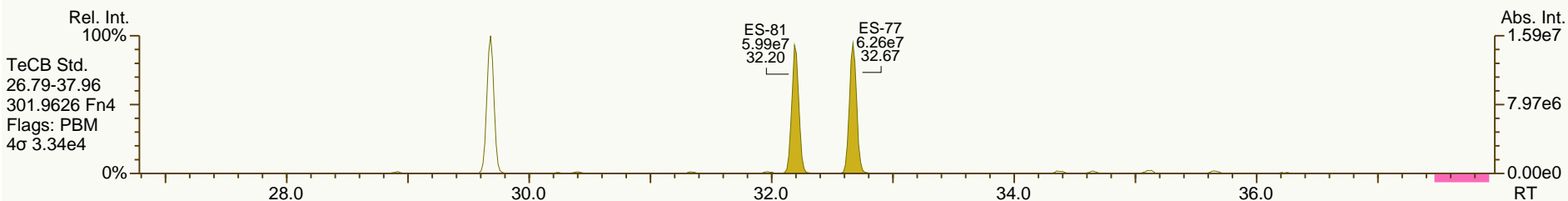
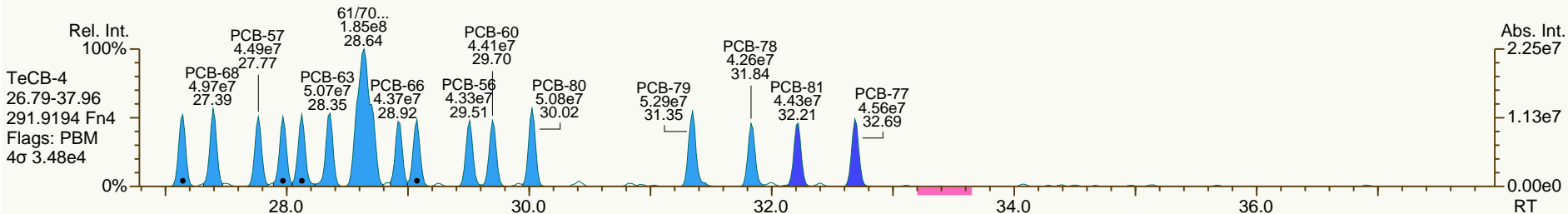
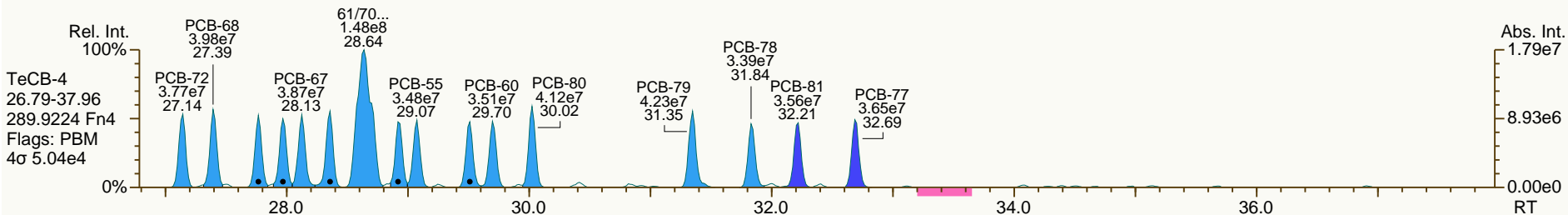
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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 User: LKB Datafile: 140402X01

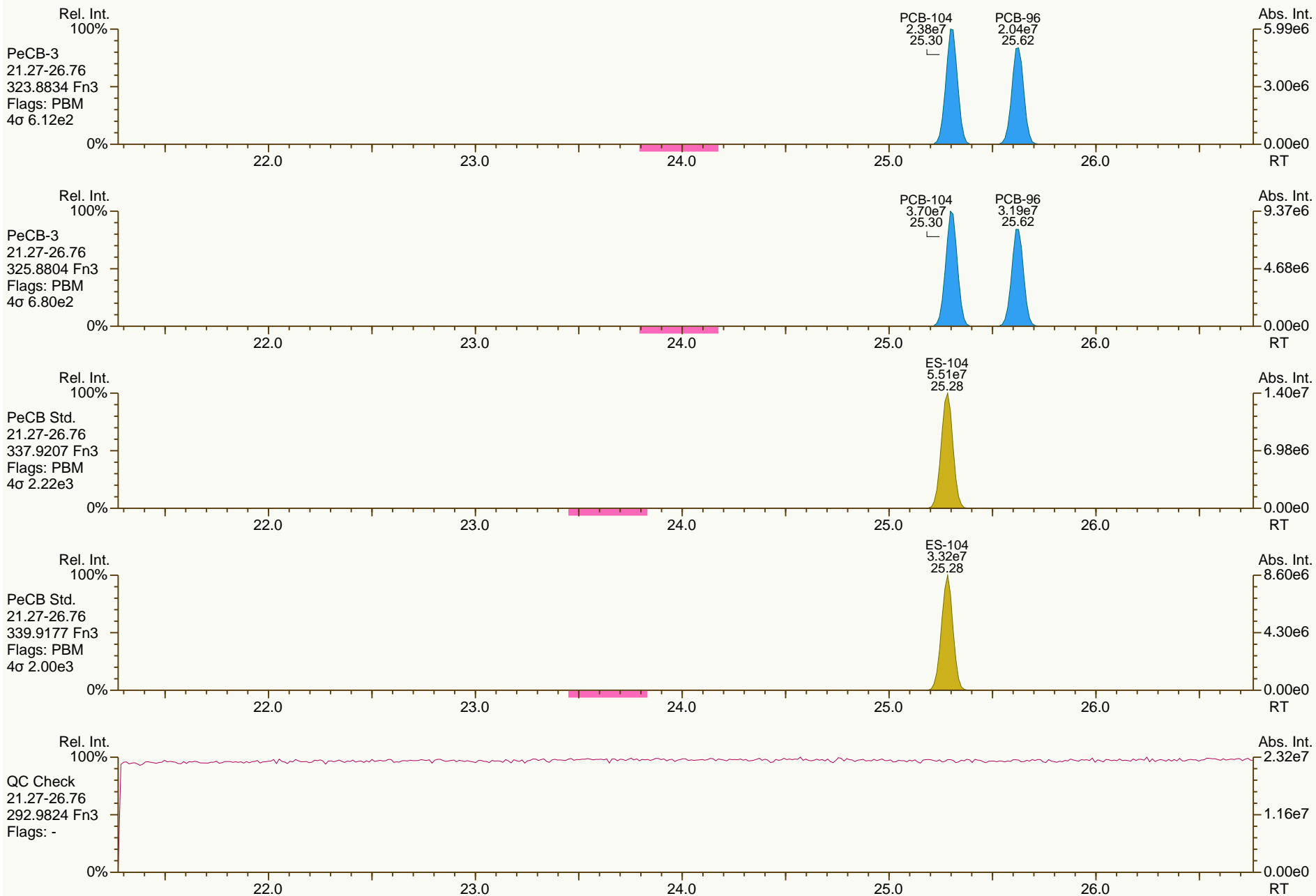




SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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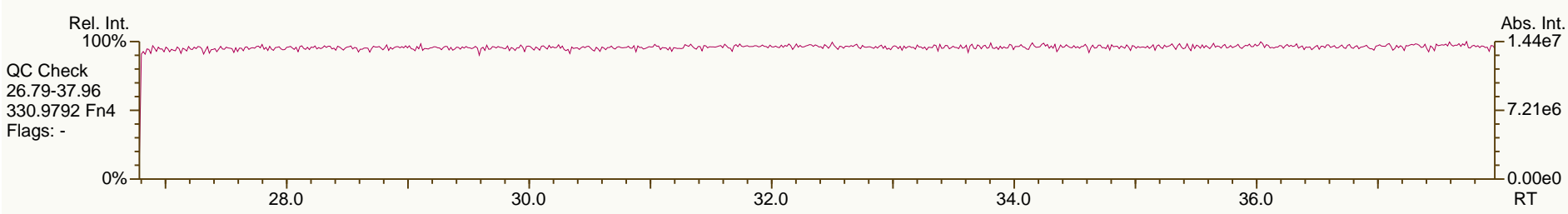
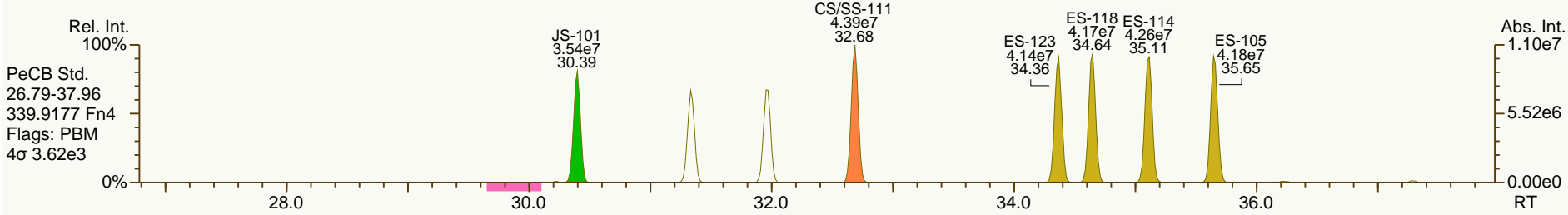
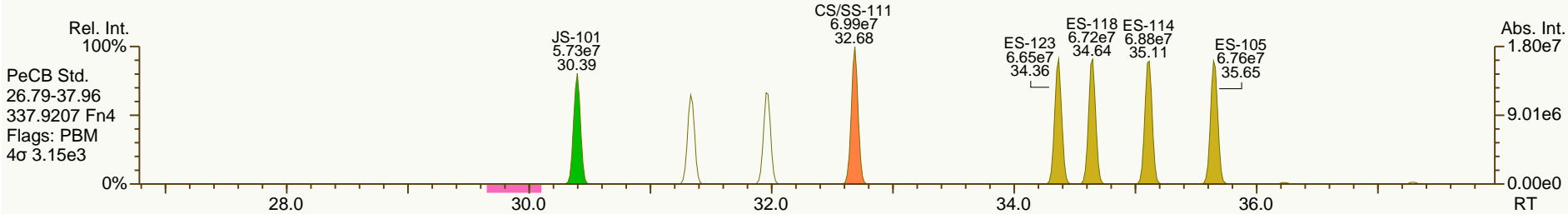
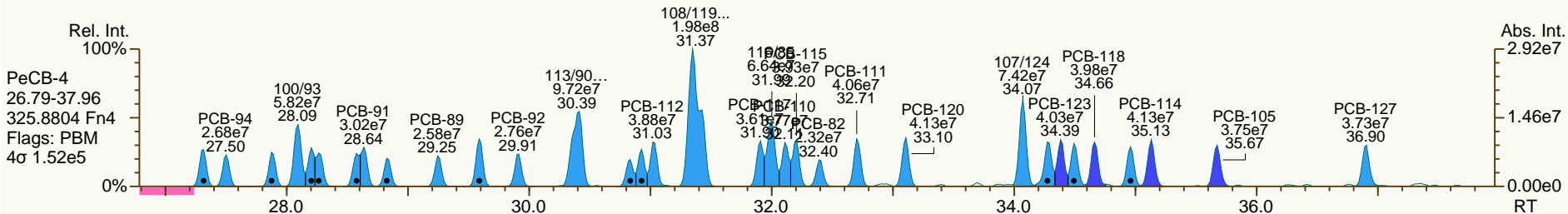
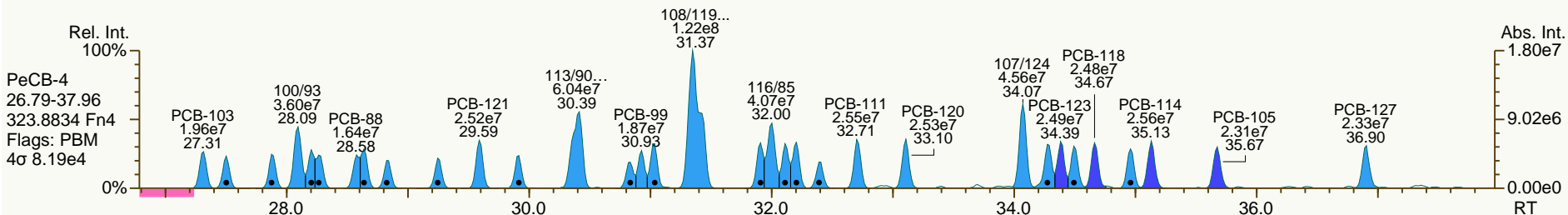
Acq: 01-Apr-2014 23:29:14  
 User: LKB Datafile: 140402X01



SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

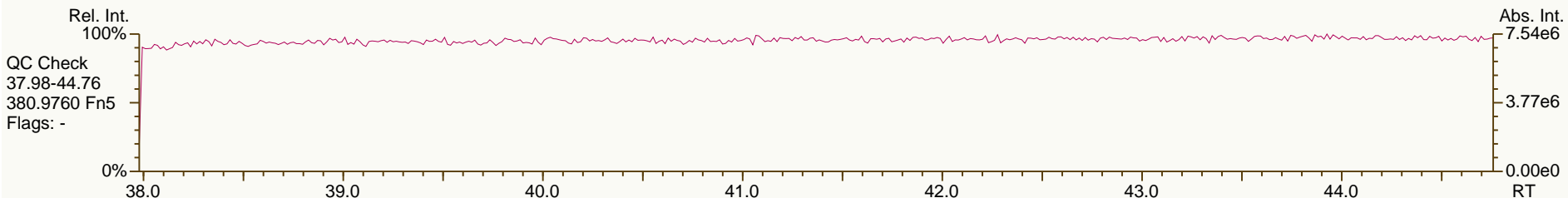
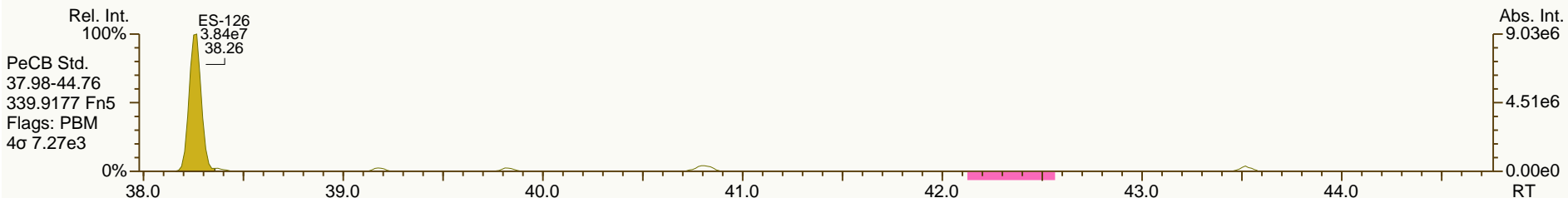
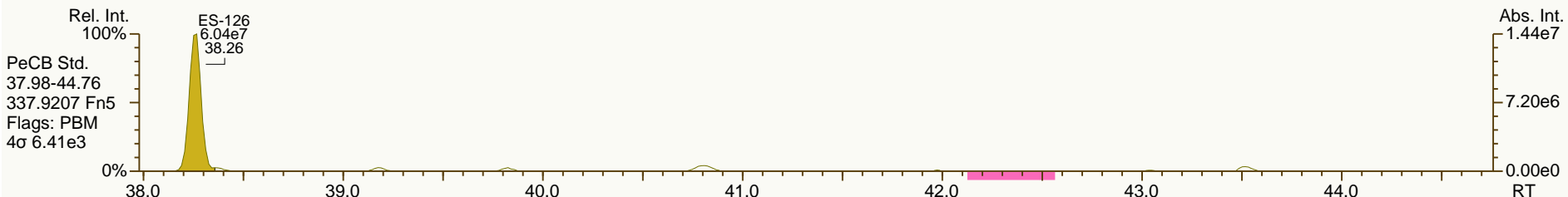
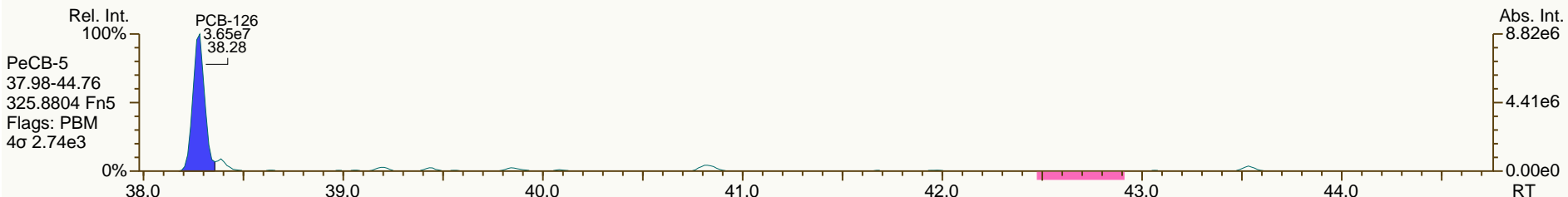
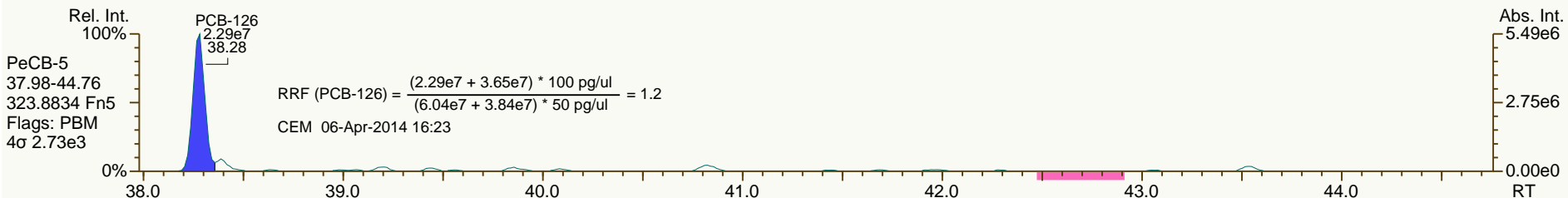
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

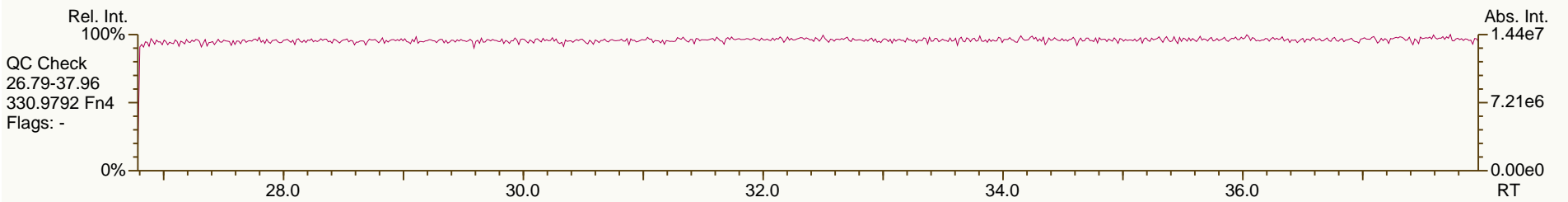
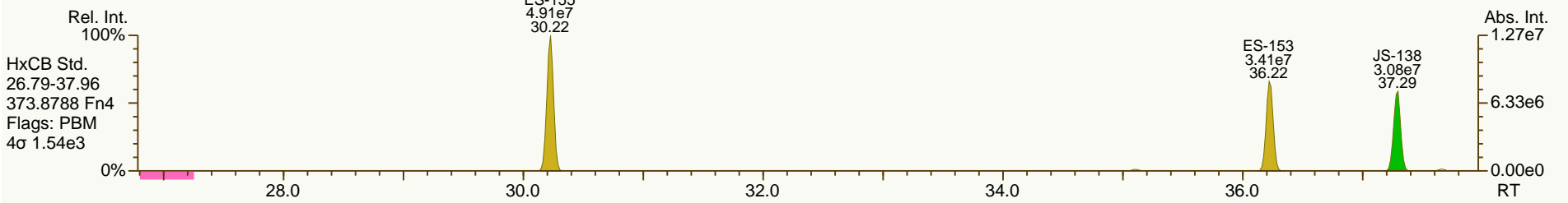
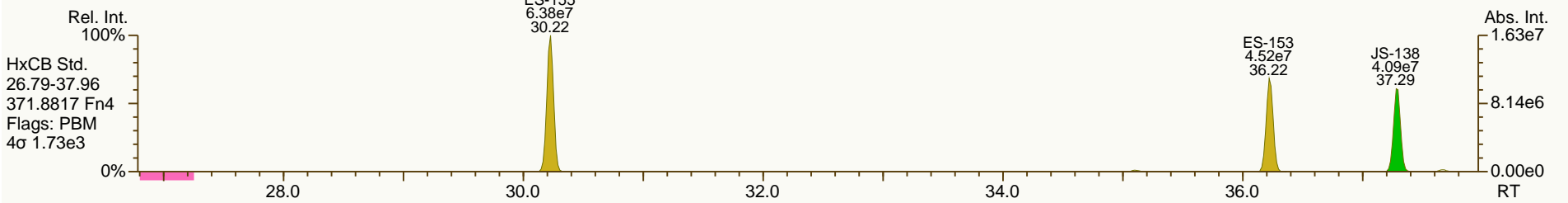
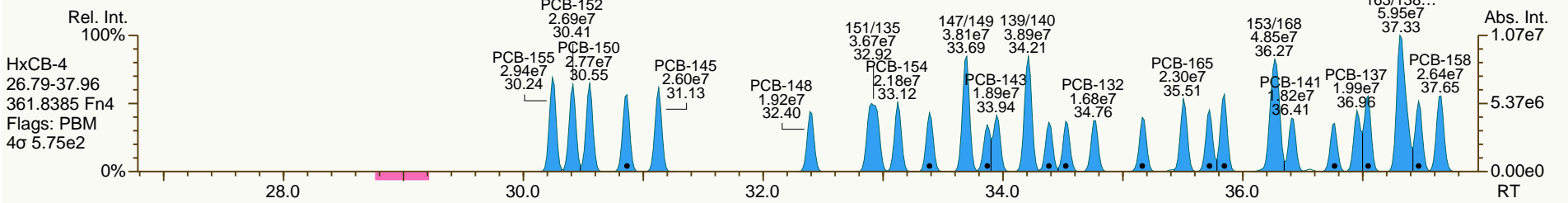
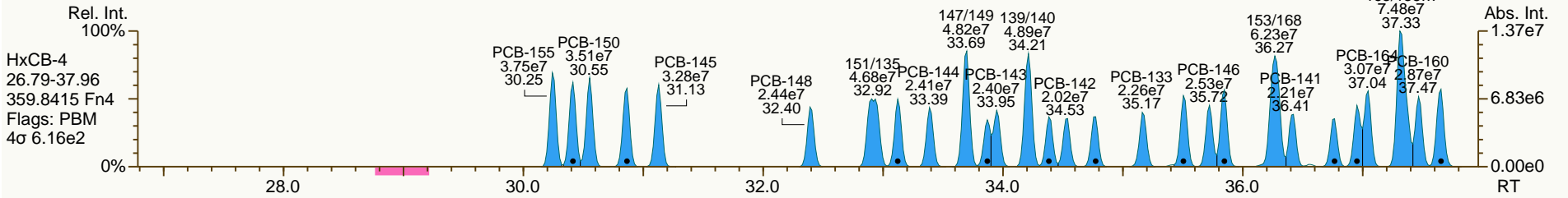
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

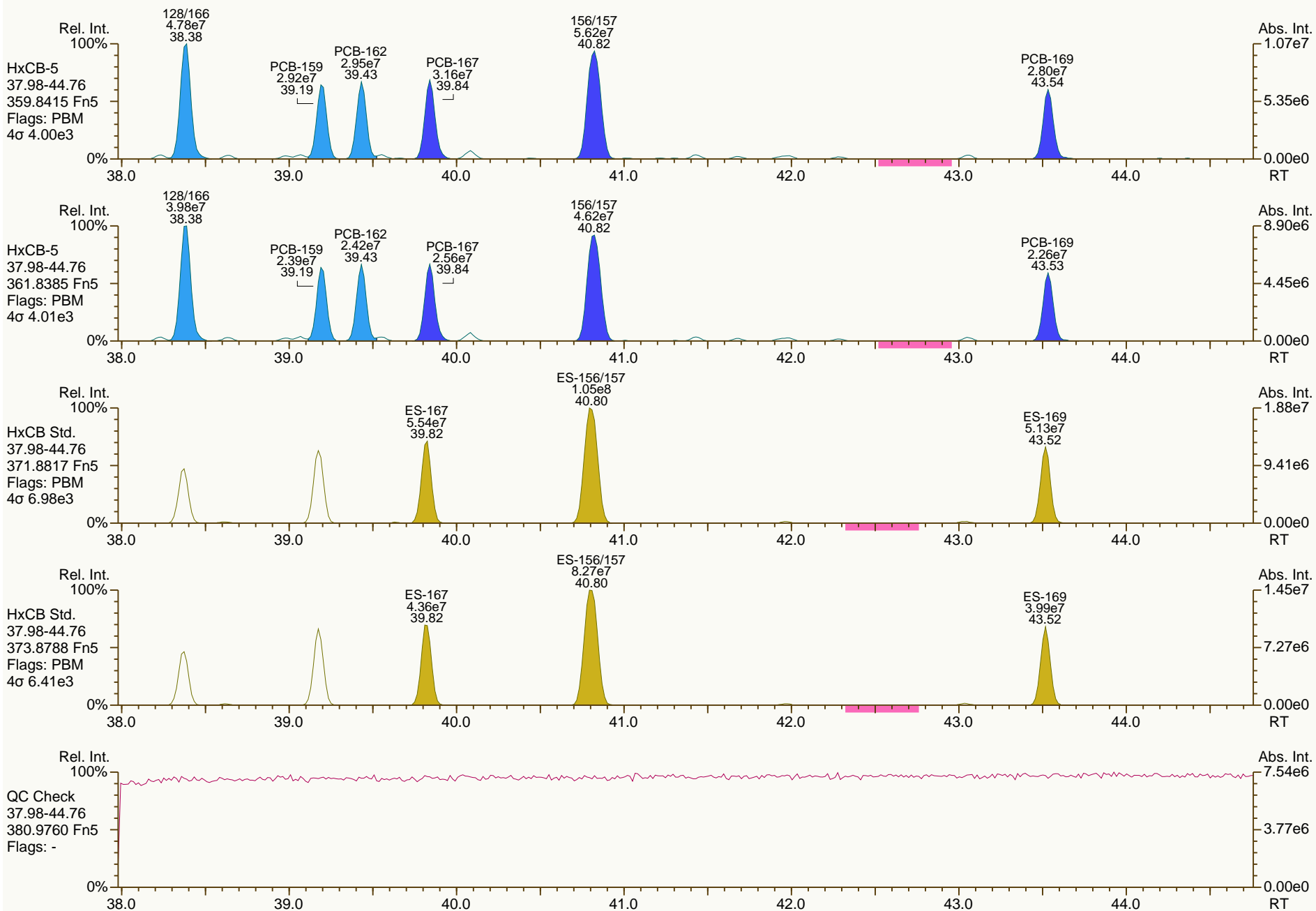
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

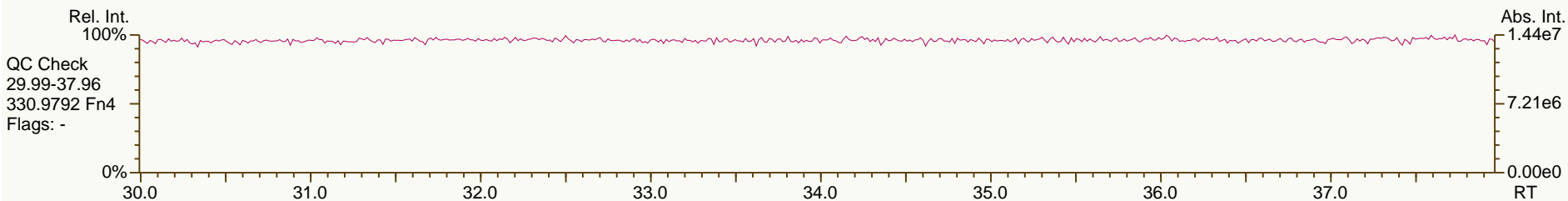
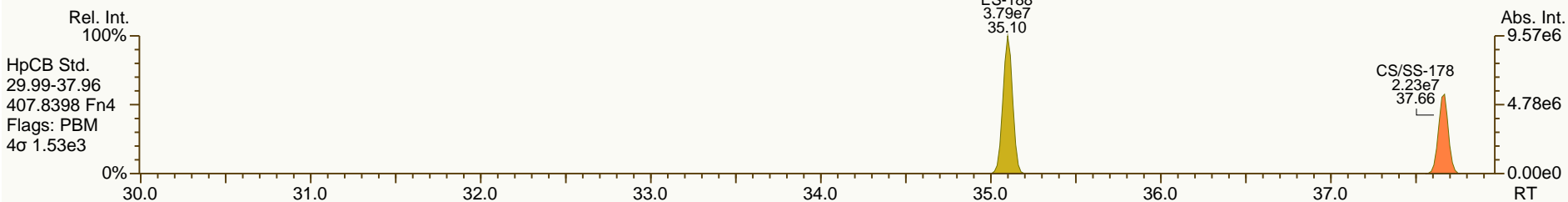
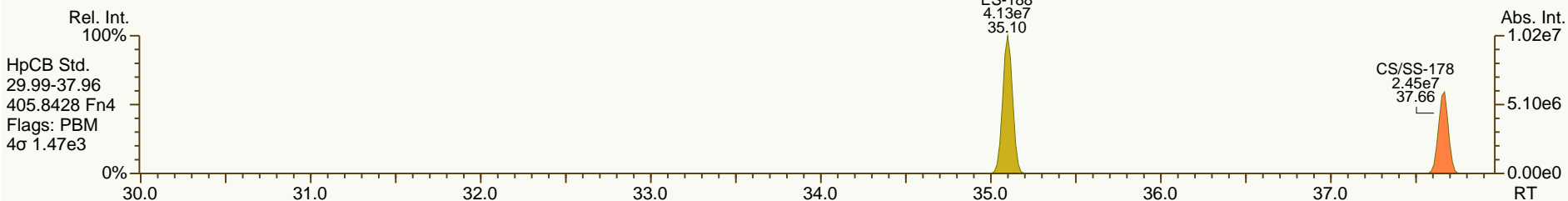
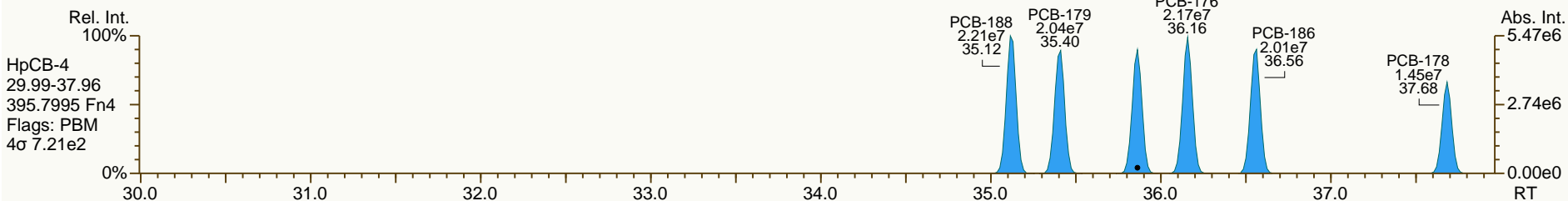
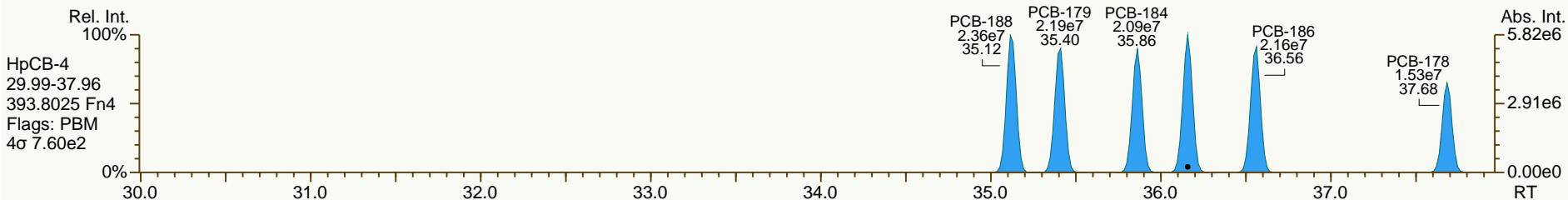
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 User: LKB Datafile: 140402X01



SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

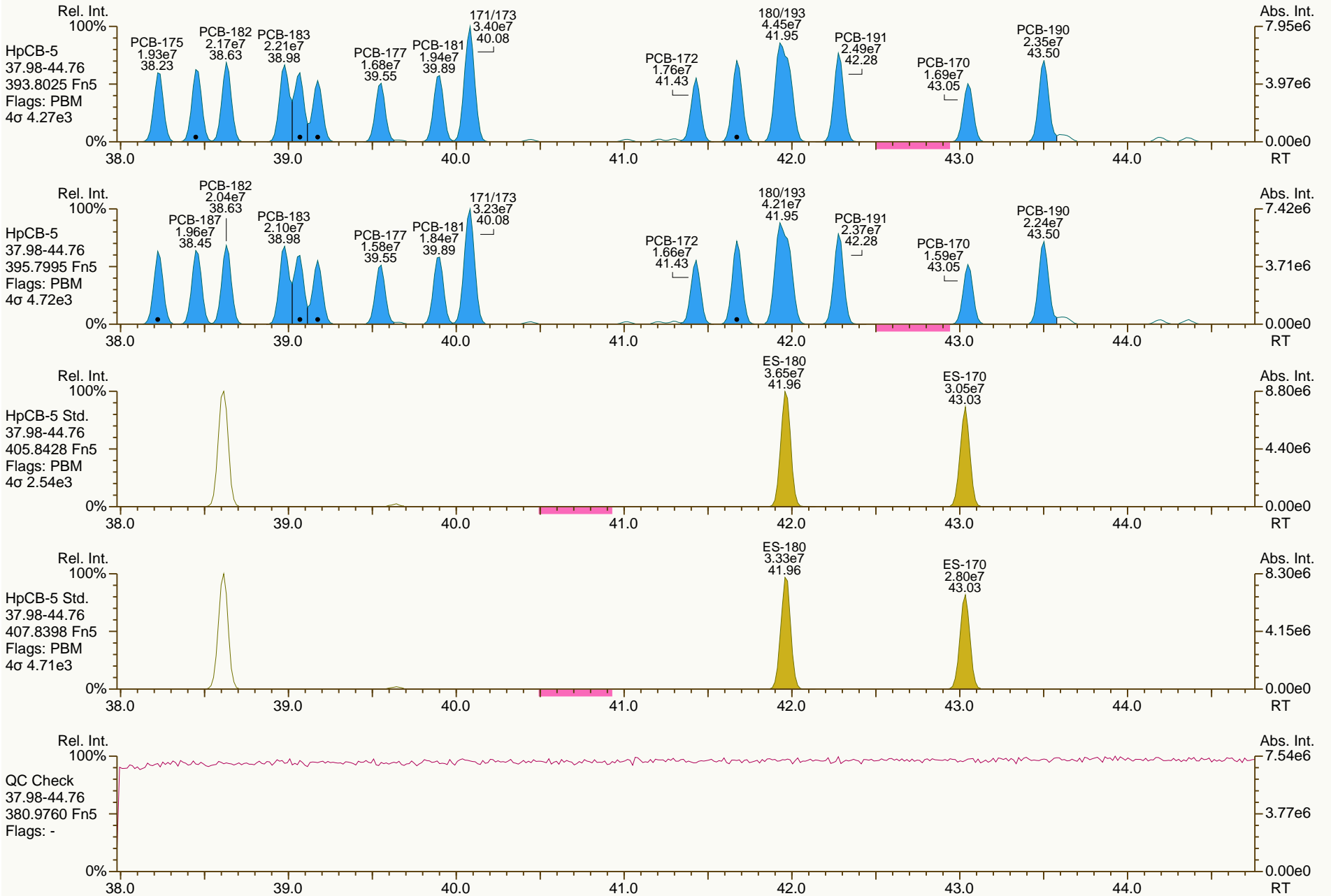
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 User: LKB Datafile: 140402X01



SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

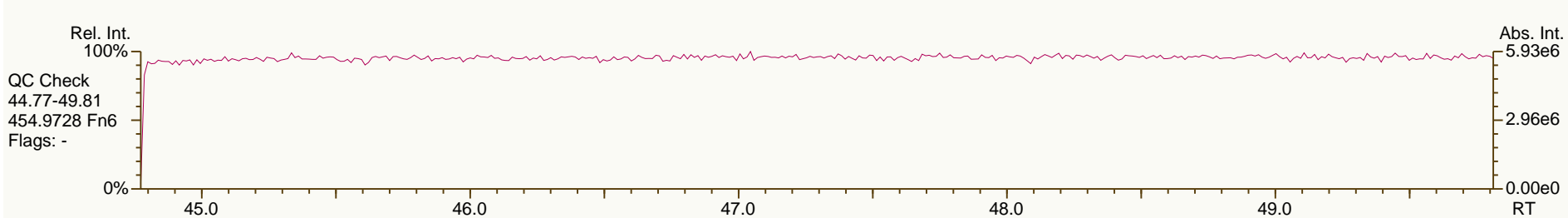
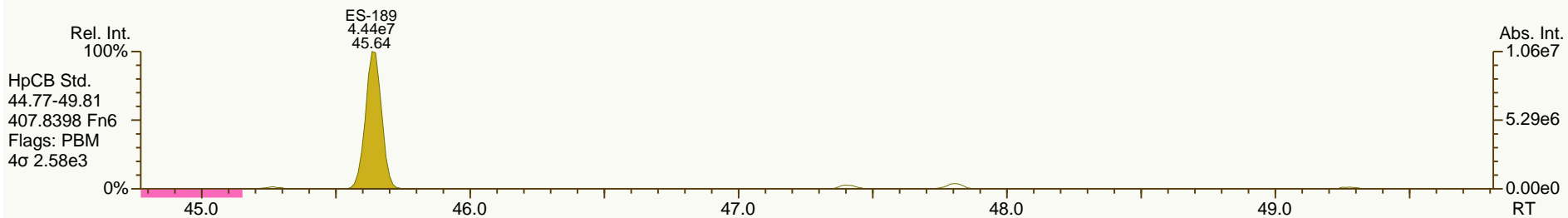
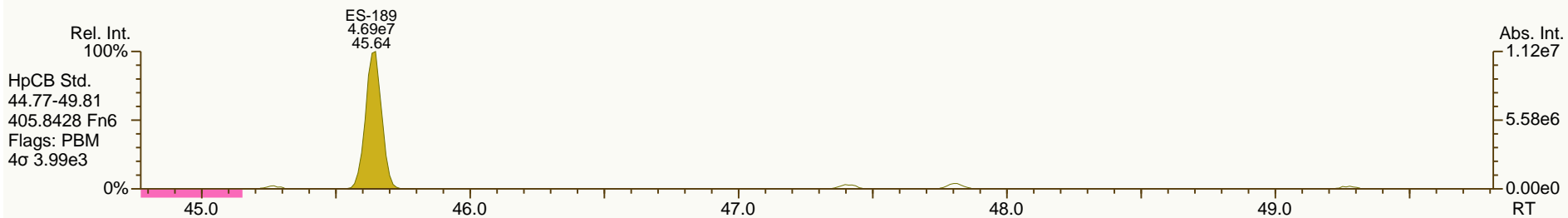
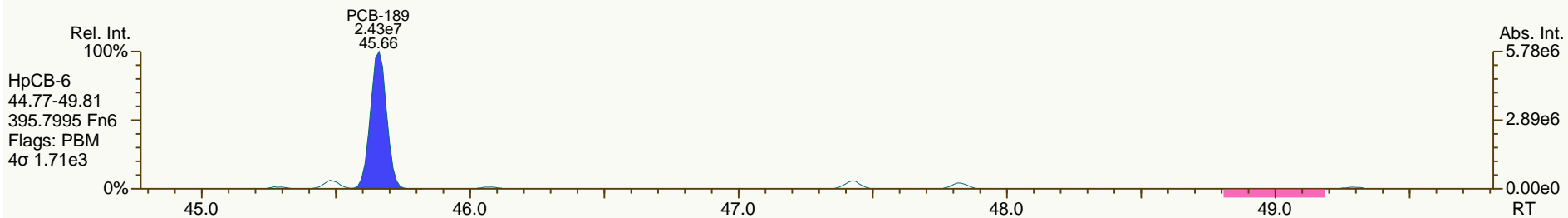
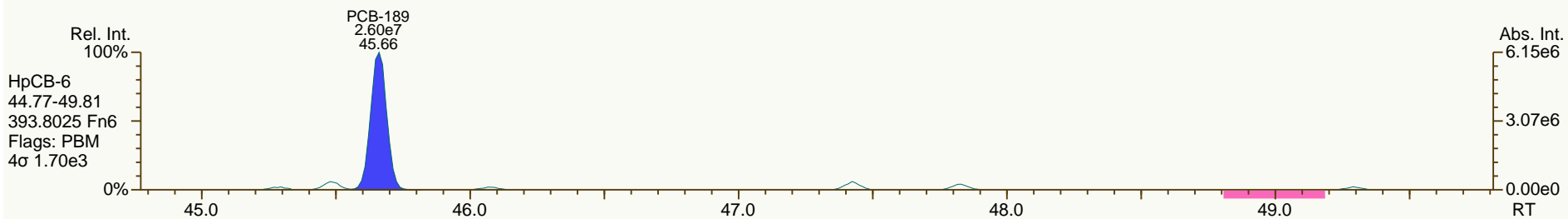
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 User: LKB Datafile: 140402X01



SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 01-Apr-2014 23:29:14  
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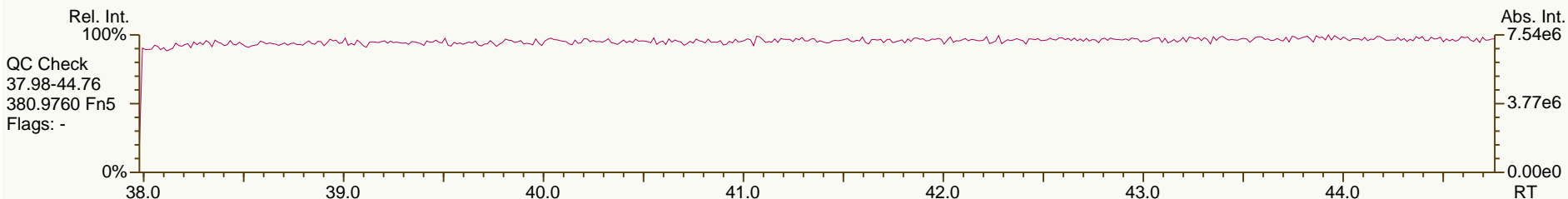
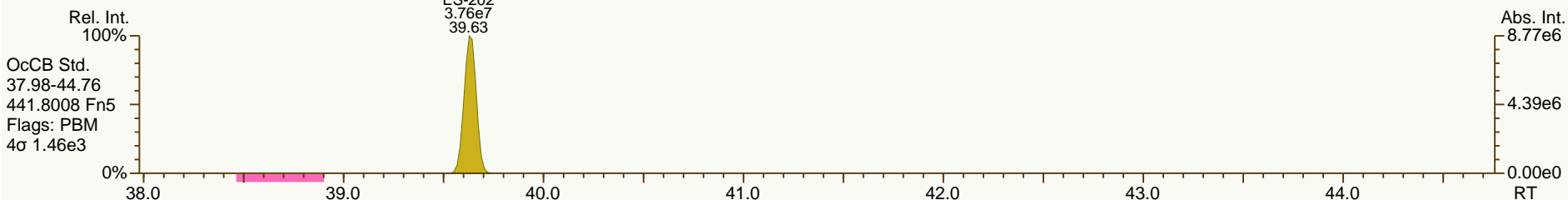
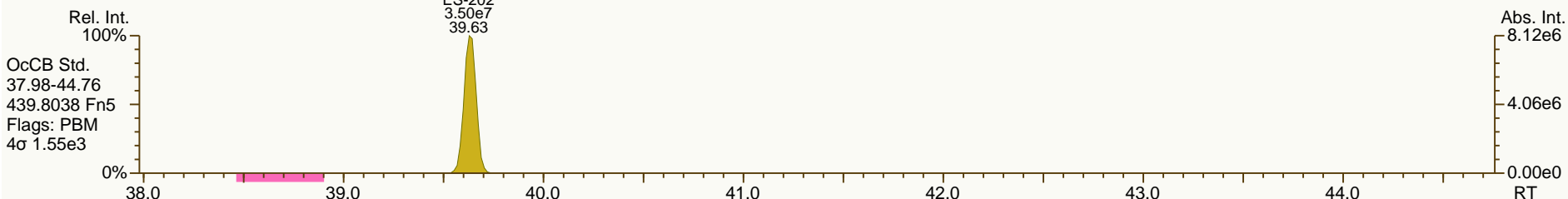
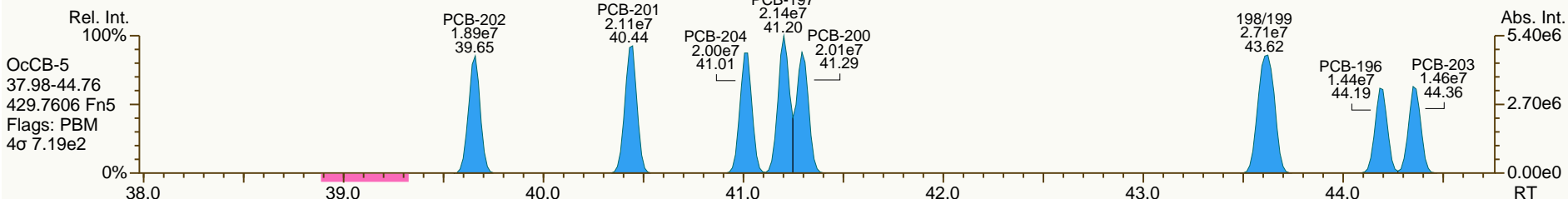
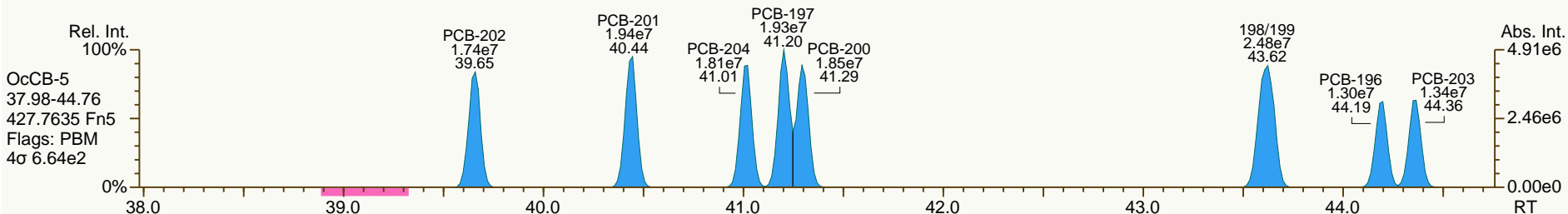




SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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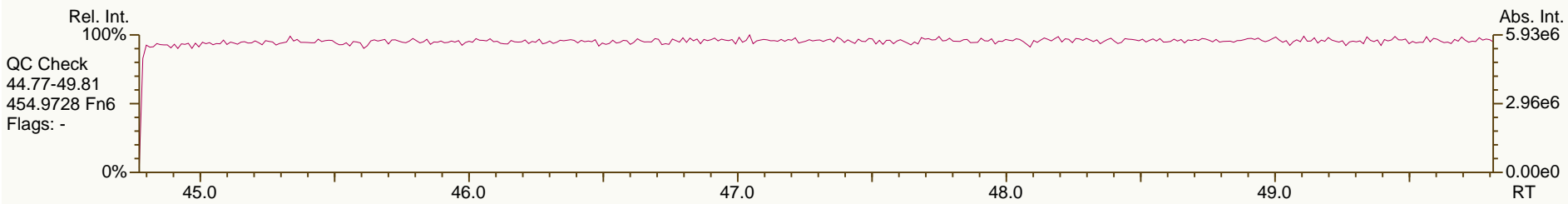
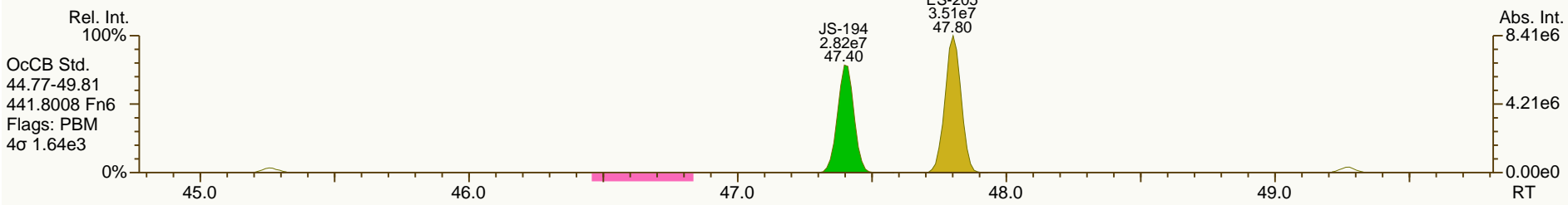
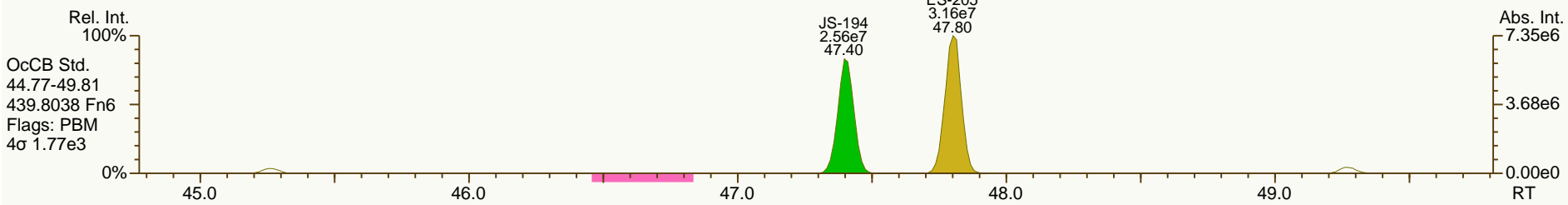
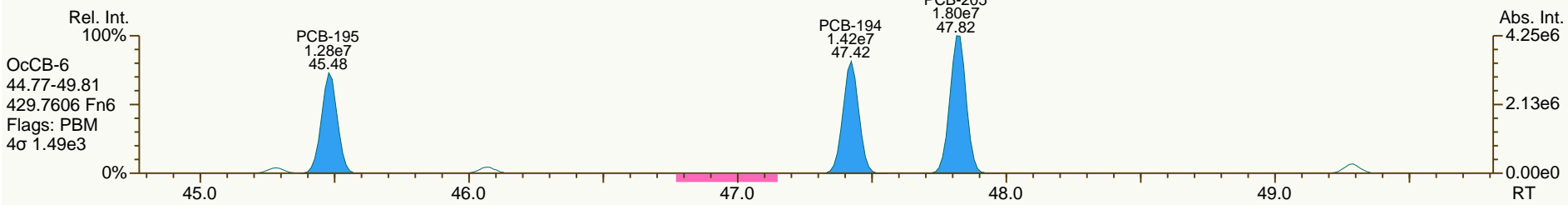
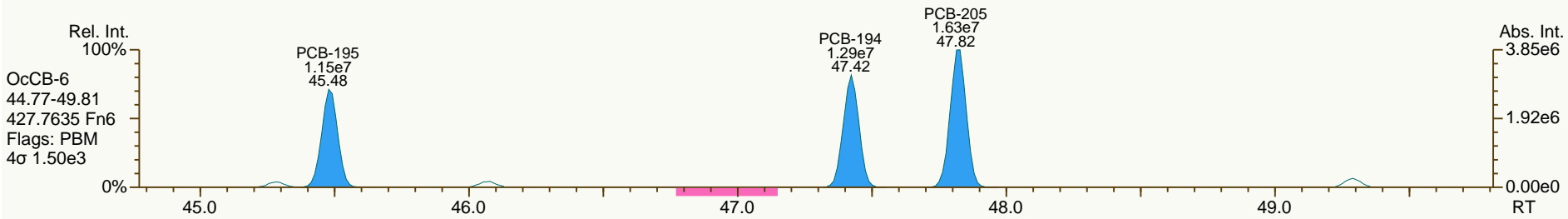
Acq: 01-Apr-2014 23:29:14  
 User: LKB Datafile: 140402X01



SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

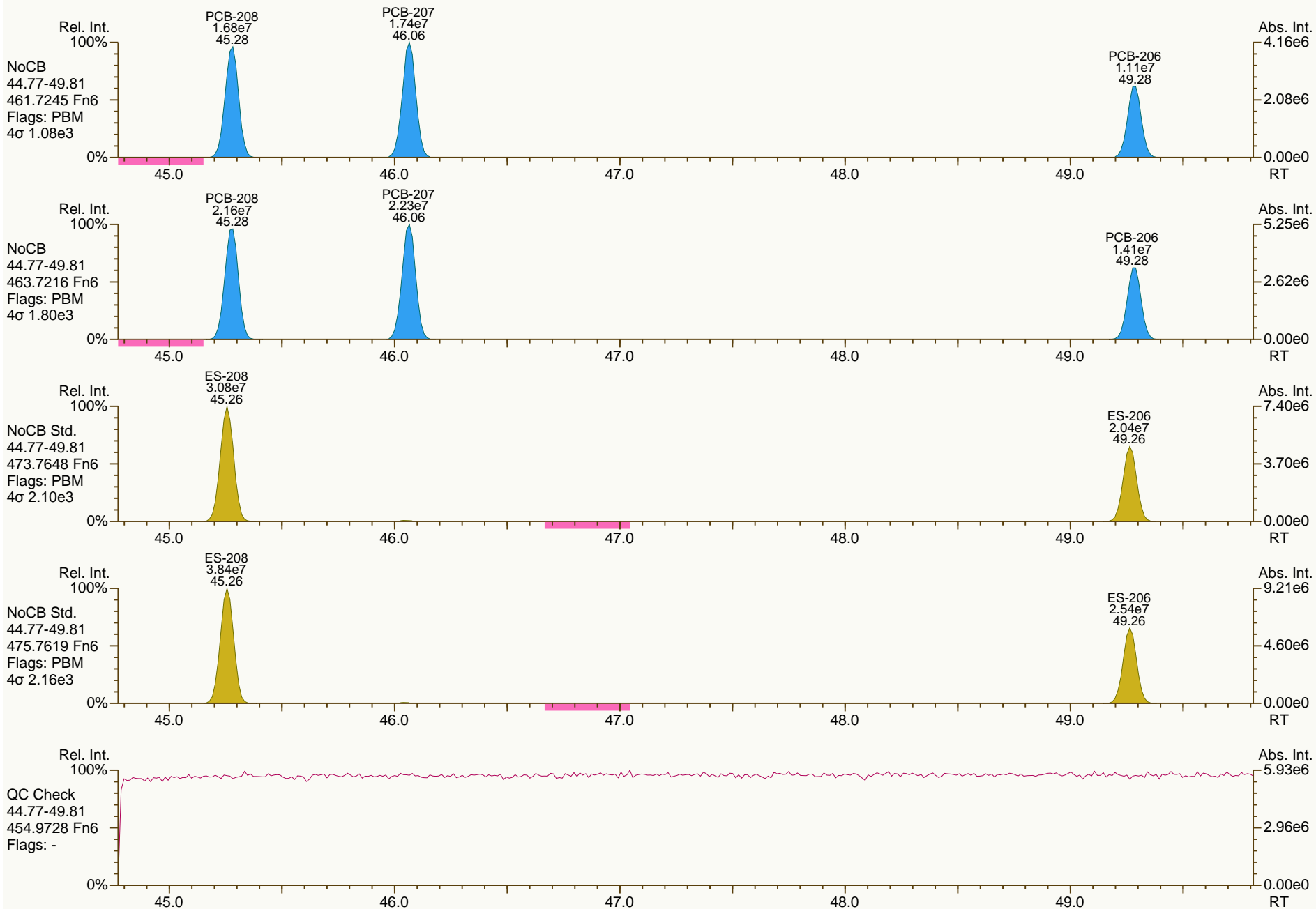
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SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

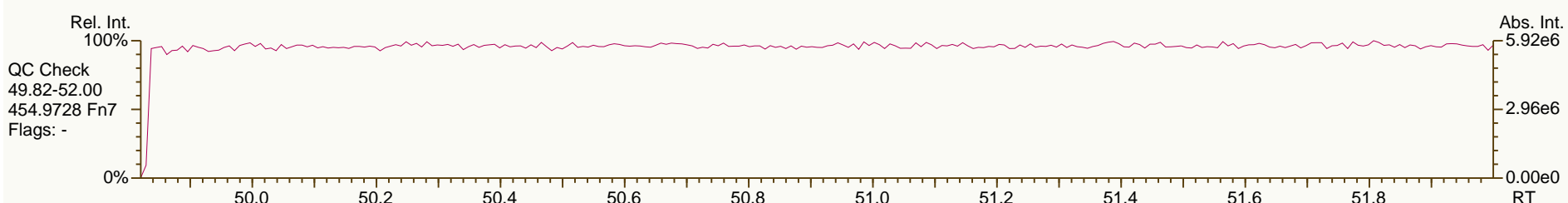
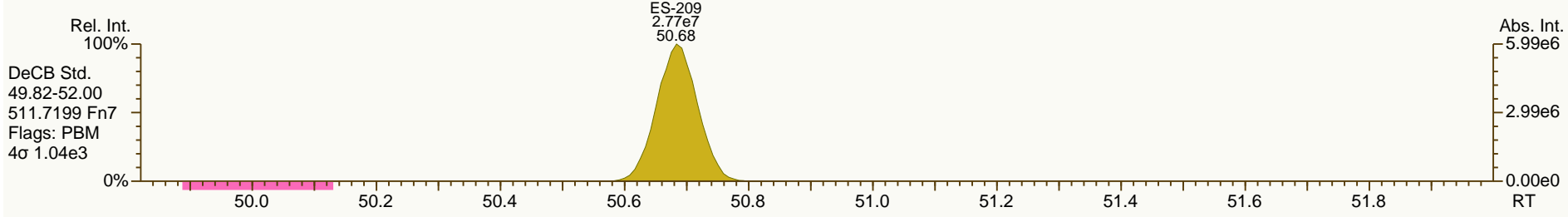
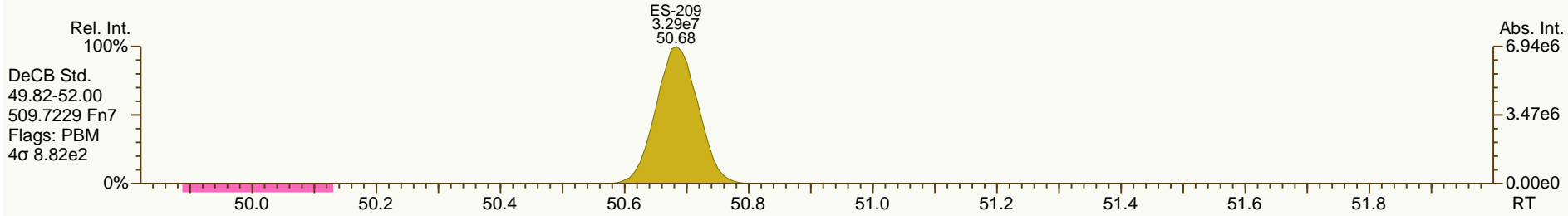
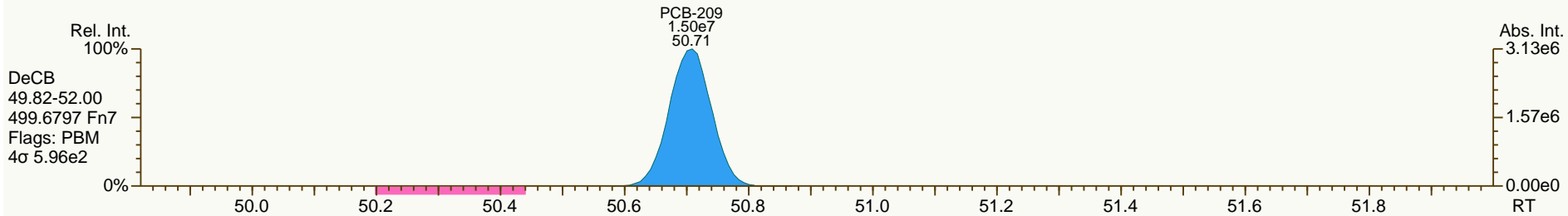
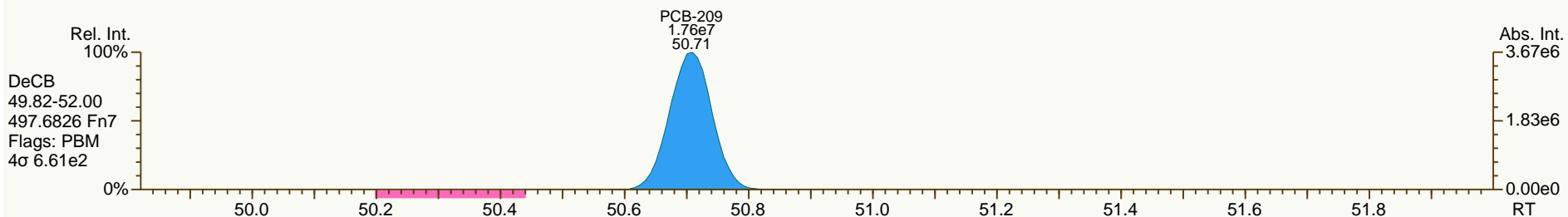
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 User: LKB Datafile: 140402X01



SGS ID: CS3\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 01-Apr-2014 23:29:14  
 User: LKB Datafile: 140402X01



PCB QC Summary		SGS Environmental Services			Processed: 6-Apr-2014 16:14		
Lab ID:	CS3_140403_PCB_XB						
Acquired:	03-APR-2014 15:20			ICAL: MM7_PCB_10292013_20DEC2013			
Datafile:	140403X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.66	8.00E+07	0.81 Y	1.15	1.16	0.6%	
PCB-81 344'5'-TeCB	32.18	7.74E+07	0.80 Y	1.12	1.14	1.9%	
PCB-105 233'44'-PeCB	35.65	6.34E+07	0.62 Y	1.11	1.11	-0.1%	
PCB-114 2344'5'-PeCB	35.10	6.88E+07	0.62 Y	1.20	1.19	-0.8%	
PCB-118 23'44'5'-PeCB	34.64	6.61E+07	0.62 Y	1.19	1.19	-0.1%	
PCB-123 23'44'5'-PeCB	34.36	6.80E+07	0.62 Y	1.21	1.21	-0.3%	
PCB-126 33'44'5'-PeCB	38.25	5.91E+07	0.64 Y	1.11	1.18	6.9%	
PCB-156/157 ...-HxCB	40.80	1.06E+08	1.22 Y	1.10	1.08	-1.2%	
PCB-167 23'44'55'-HxCB	39.82	5.89E+07	1.21 Y	1.16	1.15	-1.4%	
PCB-169 33'44'55'-HxCB	43.51	5.28E+07	1.23 Y	1.12	1.11	-1.6%	
PCB-189 233'44'55'-HpCB	45.63	5.22E+07	1.06 Y	1.07	1.10	2.2%	
PCB-209 DeCB	50.68	3.81E+07	1.18 Y	1.11	1.07	-4.3%	
ES PCB-1	11.81	2.25E+08	3.29 Y	1.19	1.12	-5.9%	
ES PCB-3	14.08	2.12E+08	3.36 Y	1.09	1.05	-3.0%	
ES PCB-4	14.33	1.23E+08	1.59 Y	0.52	0.61	16.7%	
ES PCB-15	20.01	2.15E+08	1.59 Y	1.04	1.07	2.8%	
ES PCB-19	17.40	1.06E+08	1.07 Y	0.51	0.53	4.7%	
ES PCB-37	26.32	1.56E+08	1.10 Y	1.66	1.46	-12.3%	
ES PCB-54	20.30	1.07E+08	0.79 Y	0.86	1.00	16.2%	
ES PCB-77	32.64	1.38E+08	0.81 Y	1.38	1.29	-6.7%	
ES PCB-81	32.17	1.36E+08	0.81 Y	1.37	1.27	-7.2%	
ES PCB-104	25.26	9.74E+07	1.64 Y	0.80	1.02	26.5%	
ES PCB-105	35.62	1.14E+08	1.59 Y	1.20	1.19	-1.0%	
ES PCB-114	35.08	1.15E+08	1.61 Y	1.22	1.20	-1.2%	
ES PCB-118	34.62	1.11E+08	1.59 Y	1.16	1.16	0.2%	
ES PCB-123	34.34	1.13E+08	1.57 Y	1.19	1.17	-1.0%	
ES PCB-126	38.23	9.99E+07	1.55 Y	1.03	1.04	1.4%	
ES PCB-153	36.20	8.67E+07	1.30 Y	1.11	1.11	-0.7%	
ES PCB-155	30.20	1.20E+08	1.29 Y	1.59	1.53	-3.6%	
ES PCB-156/157	40.78	1.96E+08	1.28 Y	1.60	1.25	-21.7%	
ES PCB-167	39.79	1.03E+08	1.29 Y	1.67	1.31	-21.4%	
ES PCB-169	43.49	9.55E+07	1.25 Y	1.56	1.22	-21.7%	
ES PCB-170	43.01	6.44E+07	1.08 Y	0.95	1.09	15.6%	
ES PCB-180	41.94	7.66E+07	1.07 Y	1.14	1.30	14.5%	
ES PCB-188	35.07	8.95E+07	1.07 Y	0.94	1.14	21.6%	
ES PCB-189	45.61	9.52E+07	1.05 Y	1.58	1.62	2.3%	
ES PCB-202	39.61	8.12E+07	0.92 Y	0.97	1.04	6.8%	
ES PCB-205	47.78	7.48E+07	0.90 Y	1.24	1.27	2.2%	
ES PCB-206	49.24	5.45E+07	0.82 Y	0.83	0.93	11.8%	
ES PCB-208	45.23	7.75E+07	0.80 Y	1.17	1.32	12.1%	
ES PCB-209	50.66	7.16E+07	1.18 Y	1.11	1.22	9.6%	

PCB QC Summary		SGS Environmental Services			Processed: 6-Apr-2014 16:14		
Lab ID:	CS3_140403_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013					
Acquired:	03-APR-2014 15:20						
Datafile:	140403X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.77	1.69E+08	1.10 Y	1.11	1.08	-2.5%	
SS PCB-111	32.66	1.17E+08	1.60 Y	1.03	1.04	1.4%	
SS PCB-178	37.64	5.41E+07	1.07 Y	0.62	0.60	-2.3%	
CS PCB-28	22.77	1.69E+08	1.10 Y	1.85	1.58	-14.4%	
CS PCB-111	32.66	1.17E+08	1.60 Y	1.22	1.23	0.4%	
CS PCB-178	37.64	5.41E+07	1.07 Y	0.58	0.69	18.7%	
JS PCB-9	16.30	2.01E+08	1.58 Y		-	-	
JS PCB-52	24.39	1.07E+08	0.80 Y		-	-	
JS PCB-101	30.37	9.58E+07	1.61 Y		-	-	
JS PCB-138	37.26	7.84E+07	1.28 Y		-	-	
JS PCB-194	47.38	5.88E+07	0.90 Y		-	-	
PCB-1 2-MoCB	11.82	1.23E+08	3.19 Y	0.95	1.09	14.4%	
PCB-3 4-MoCB	14.09	1.23E+08	3.24 Y	1.01	1.16	15.2%	
PCB-4 22'-DiCB	14.35	7.08E+07	1.57 Y	1.23	1.16	-6.2%	
PCB-15 44'-DiCB	20.03	1.20E+08	1.64 Y	1.02	1.12	9.5%	
PCB-19 22'6'-TrCB	17.41	5.84E+07	1.05 Y	1.15	1.10	-4.3%	
PCB-37 344'-TrCB	26.34	9.59E+07	1.00 Y	1.08	1.23	13.9%	
PCB-54 22'66'-TeCB	20.31	6.86E+07	0.80 Y	1.35	1.28	-5.3%	
PCB-104 22'466'-PeCB	25.28	6.60E+07	0.64 Y	1.43	1.36	-5.4%	
PCB-155 22'44'66'-HxCB	30.22	7.18E+07	1.27 Y	1.26	1.20	-5.1%	
PCB-188 22'34'566'-HpCB	35.10	5.06E+07	1.06 Y	1.27	1.13	-10.9%	
PCB-202 22'33'55'66'-OcCB	39.63	4.06E+07	0.91 Y	1.05	1.00	-5.1%	
PCB-205 233'44'55'6'-OcCB	47.80	3.77E+07	0.89 Y	1.06	1.01	-4.9%	
PCB-208 22'33'455'66'-NoCB	45.25	4.25E+07	0.78 Y	1.12	1.10	-2.3%	
PCB-206 22'33'44'55'6'-NoCB	49.26	2.93E+07	0.77 Y	1.11	1.08	-3.4%	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
					-	-	
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					-	-	
					-	-	

PCB QC Summary - Ax2 Detail				Processed: 6-Apr-2014 16:14			
Lab ID:	CS3_140403_PCB_XB			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	03-APR-2014 15:20						
Datafile:	140403X04						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.82	1.23E+08	3.19 Y	0.95	-	-	
PCB-2 3-MoCB	13.91	1.23E+08	3.22 Y	1.03	1.16	12.6%	
PCB-3 4-MoCB	14.09	1.23E+08	3.24 Y	1.01	-	-	
PCB-4 22'-DiCB	14.35	7.08E+07	1.57 Y	1.23	-	-	
PCB-10 26-DiCB	14.52	1.15E+08	1.58 Y	1.98	1.87	-5.6%	
PCB-9 25-DiCB	16.31	1.05E+08	1.62 Y	0.95	0.98	3.3%	
PCB-7 24-DiCB	16.48	1.18E+08	1.63 Y	1.05	1.10	5.1%	
PCB-6 23'-DiCB	16.70	1.11E+08	1.63 Y	1.00	1.03	3.3%	
PCB-5 23-DiCB	17.01	1.12E+08	1.65 Y	1.00	1.04	3.6%	
PCB-8 24'-DiCB	17.12	1.15E+08	1.62 Y	1.03	1.07	3.8%	
PCB-14 35-DiCB	18.67	1.33E+08	1.63 Y	1.18	1.23	4.7%	
PCB-11 33'-DiCB	19.45	1.15E+08	1.63 Y	1.01	1.07	5.8%	
PCB-13/12 34'/34'-DiCB	19.74	2.30E+08	1.64 Y	0.99	1.07	8.1%	
PCB-15 44'-DiCB	20.03	1.20E+08	1.64 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.41	5.84E+07	1.05 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.17	1.61E+08	1.05 Y	1.54	1.51	-1.5%	
PCB-17 22'4-TrCB	19.57	6.81E+07	1.04 Y	1.31	1.28	-2.0%	
PCB-27 23'6-TrCB	19.76	9.41E+07	1.04 Y	1.82	1.77	-2.7%	
PCB-24 236-TrCB	19.89	9.16E+07	1.05 Y	1.72	1.72	-0.1%	
PCB-16 22'3-TrCB	19.99	4.99E+07	1.04 Y	1.01	0.94	-6.7%	
PCB-32 24'6-TrCB	20.47	1.00E+08	1.05 Y	1.92	1.88	-1.8%	
PCB-34 23'5'-TrCB	21.61	9.64E+07	1.01 Y	1.14	1.23	8.8%	
PCB-23 235-TrCB	21.76	9.76E+07	1.01 Y	1.16	1.25	8.2%	
PCB-26/29 23'5/245-TrCB	22.05	1.99E+08	1.01 Y	1.17	1.28	8.9%	
PCB-25 23'4-TrCB	22.24	1.02E+08	1.00 Y	1.16	1.30	12.4%	
PCB-31 24'5-TrCB	22.52	1.04E+08	1.01 Y	1.23	1.33	8.6%	
PCB-28/20 244'/233'-TrCB	22.80	1.94E+08	1.01 Y	1.13	1.24	9.6%	
PCB-21/33 234/23'4'-TrCB	22.98	2.00E+08	1.01 Y	1.17	1.28	9.3%	
PCB-22 234'-TrCB	23.36	9.25E+07	1.00 Y	1.08	1.19	9.8%	
PCB-36 33'5-TrCB	24.74	1.02E+08	1.02 Y	1.17	1.30	11.3%	
PCB-39 34'5-TrCB	25.06	1.06E+08	1.01 Y	1.21	1.36	11.9%	
PCB-38 345-TrCB	25.59	9.38E+07	1.02 Y	1.10	1.20	8.8%	
PCB-35 33'4-TrCB	25.98	9.05E+07	1.01 Y	1.04	1.16	11.5%	
PCB-37 344'-TrCB	26.34	9.59E+07	1.00 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.31	6.86E+07	0.80 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.29	1.19E+08	0.78 Y	0.88	0.88	0.2%	
PCB-45 22'36'-TeCB	22.88	4.80E+07	0.78 Y	0.77	0.71	-8.0%	
PCB-51 22'46'-TeCB	22.95	6.46E+07	0.79 Y	0.86	0.95	10.6%	
PCB-46 22'36'-TeCB	23.16	4.77E+07	0.78 Y	0.70	0.70	0.6%	
PCB-52 22'55'-TeCB	24.41	5.90E+07	0.79 Y	0.84	0.87	2.8%	
PCB-73 23'5'6'-TeCB	24.54	7.93E+07	0.78 Y	1.11	1.17	4.9%	

Lab ID: - Ax2 Detail				Processed: 6-Apr-2014 16:14		
Lab ID:	CS3_140403_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	03-APR-2014 15:20					
Datafile:	140403X04					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.64	4.78E+07	0.78 Y	0.71	0.70	-0.9%
PCB-69/49 23'46/22'45'-TeCB	24.83	1.42E+08	0.78 Y	1.02	1.05	2.5%
PCB-48 22'45'-TeCB	25.11	5.84E+07	0.79 Y	0.84	0.86	2.5%
PCB-44/47/65 ...-TeCB	25.33	1.88E+08	0.78 Y	0.90	0.92	2.1%
PCB-59/62/75 ...-TeCB	25.61	2.45E+08	0.78 Y	1.17	1.20	3.2%
PCB-42 22'34'-TeCB	25.77	5.35E+07	0.78 Y	0.76	0.79	3.3%
PCB-41 22'34'-TeCB	26.10	4.57E+07	0.77 Y	0.69	0.67	-3.1%
PCB-71/40 23'4'6/22'33'-TeCB	26.20	1.23E+08	0.79 Y	0.86	0.90	5.2%
PCB-64 23'4'-TeCB	26.40	8.69E+07	0.79 Y	1.22	1.28	4.8%
PCB-72 23'55'-TeCB	27.11	8.12E+07	0.80 Y	1.21	1.20	-1.2%
PCB-68 23'45'-TeCB	27.37	8.52E+07	0.79 Y	1.28	1.25	-1.8%
PCB-57 23'5'-TeCB	27.74	7.79E+07	0.80 Y	1.16	1.15	-1.5%
PCB-58 23'5'-TeCB	27.94	8.07E+07	0.81 Y	1.18	1.19	0.7%
PCB-67 23'45'-TeCB	28.10	8.39E+07	0.79 Y	1.26	1.24	-1.9%
PCB-63 23'4'-TeCB	28.32	8.78E+07	0.80 Y	1.30	1.29	-0.4%
PCB-61/70/74/76 ...-TeCB	28.62	3.21E+08	0.80 Y	1.20	1.18	-1.5%
PCB-66 23'44'-TeCB	28.90	7.54E+07	0.80 Y	1.10	1.11	0.8%
PCB-55 23'3'4'-TeCB	29.05	7.49E+07	0.80 Y	1.12	1.10	-1.6%
PCB-56 23'3'4'-TeCB	29.48	7.43E+07	0.80 Y	1.11	1.09	-1.4%
PCB-60 23'44'-TeCB	29.67	7.62E+07	0.79 Y	1.14	1.12	-1.2%
PCB-80 33'55'-TeCB	30.00	8.90E+07	0.81 Y	1.31	1.31	-0.2%
PCB-79 33'45'-TeCB	31.32	8.75E+07	0.80 Y	1.31	1.29	-1.4%
PCB-78 33'45'-TeCB	31.81	7.30E+07	0.80 Y	1.06	1.07	1.2%
PCB-104 22'466'-PeCB	25.28	6.60E+07	0.64 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.60	5.65E+07	0.64 Y	1.23	1.16	-5.6%
PCB-103 22'45'6'-PeCB	27.28	5.23E+07	0.62 Y	0.93	0.93	-0.2%
PCB-94 22'356'-PeCB	27.48	4.36E+07	0.61 Y	0.80	0.77	-3.1%
PCB-95 22'35'6'-PeCB	27.86	4.79E+07	0.61 Y	0.87	0.85	-1.8%
PCB-100/93 22'44'6/22'356'-PeC	28.07	9.34E+07	0.62 Y	0.86	0.83	-3.9%
PCB-102 22'456'-PeCB	28.18	5.45E+07	0.62 Y	0.97	0.97	0.1%
PCB-98 22'34'6'-PeCB	28.25	4.29E+07	0.62 Y	0.76	0.76	0.6%
PCB-88 22'346'-PeCB	28.55	4.07E+07	0.62 Y	0.80	0.72	-9.4%
PCB-91 22'34'6'-PeCB	28.61	5.44E+07	0.63 Y	0.94	0.97	2.5%
PCB-84 22'33'6'-PeCB	28.81	3.96E+07	0.62 Y	0.72	0.70	-1.7%
PCB-89 22'346'-PeCB	29.22	4.24E+07	0.62 Y	0.76	0.75	-1.4%
PCB-121 23'45'6'-PeCB	29.56	6.71E+07	0.62 Y	1.20	1.19	-0.6%
PCB-92 22'355'-PeCB	29.88	4.55E+07	0.62 Y	0.82	0.81	-1.5%
PCB-113/90/101 ...-PeCB	30.37	1.62E+08	0.61 Y	0.99	0.96	-2.5%
PCB-83 22'33'5'-PeCB	30.80	3.86E+07	0.61 Y	0.71	0.69	-4.1%



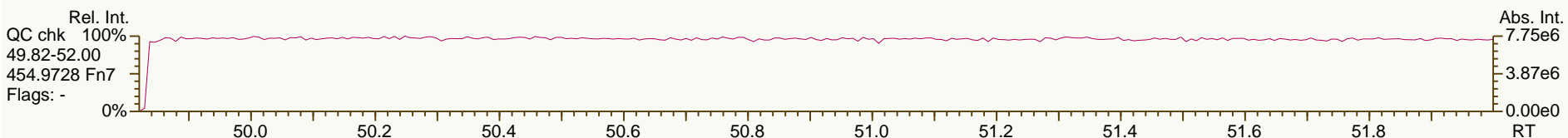
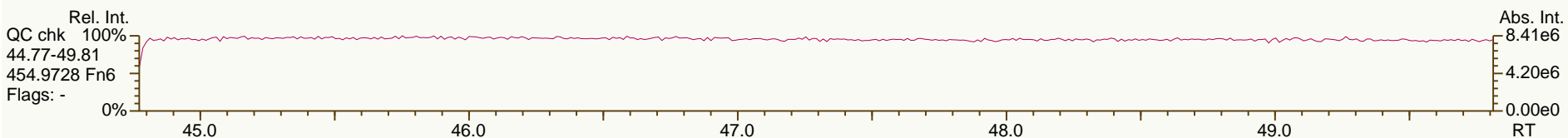
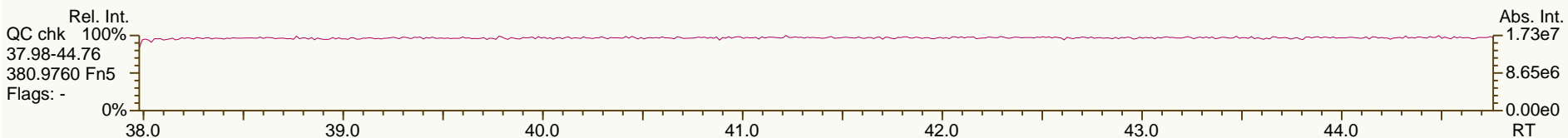
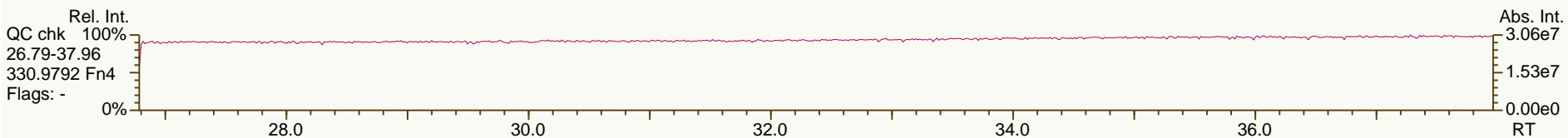
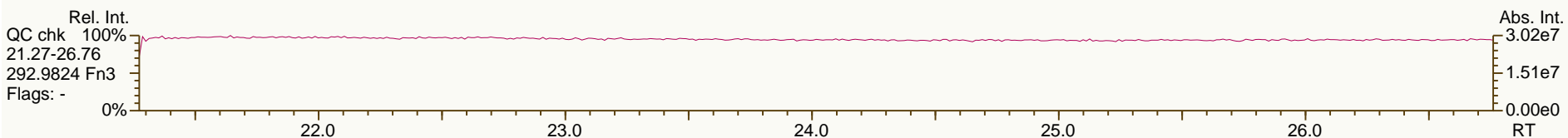
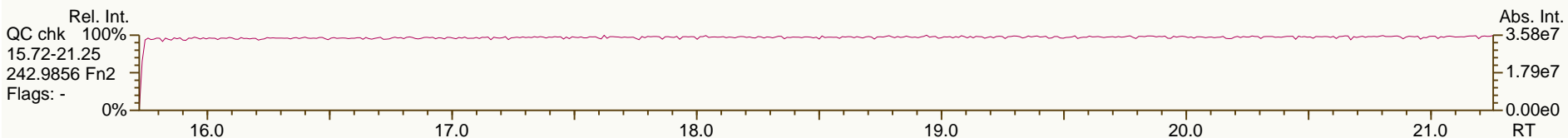
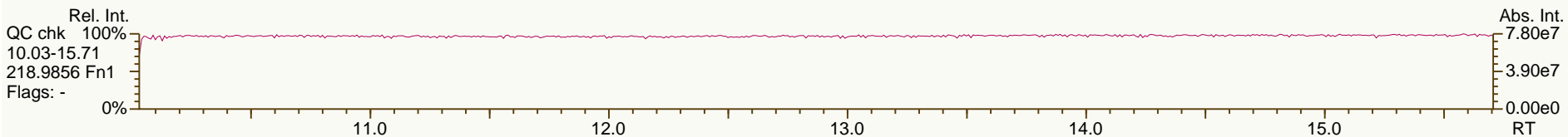
Lab ID: - Ax2 Detail			Processed: 6-Apr-2014 16:14				
Lab ID:	CS3_140403_PCB_XB		ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	03-APR-2014 15:20						
Datafile:	140403X04						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	30.90	4.95E+07	0.62 Y	0.92	0.88	-4.5%	
PCB-112 233'56-PeCB	31.00	6.56E+07	0.62 Y	1.17	1.16	-0.3%	
PCB-108/119/86/97/125...-PeCB	31.35	3.26E+08	0.62 Y	0.98	0.97	-1.4%	
PCB-117 234'56-PeCB	31.88	6.61E+07	0.61 Y	1.14	1.17	3.1%	
PCB-116/85 23456/22'344'-PeCB	31.97	1.00E+08	0.62 Y	0.94	0.89	-5.4%	
PCB-110 233'4'6-PeCB	32.08	5.99E+07	0.62 Y	1.12	1.06	-4.9%	
PCB-115 2344'6-PeCB	32.17	6.75E+07	0.62 Y	1.16	1.20	3.5%	
PCB-82 22'33'4-PeCB	32.37	3.84E+07	0.61 Y	0.70	0.68	-2.2%	
PCB-111 233'55'-PeCB	32.68	6.76E+07	0.62 Y	1.22	1.20	-1.6%	
PCB-120 23'455'-PeCB	33.08	6.83E+07	0.61 Y	1.21	1.21	0.1%	
PCB-107/124 ...-PeCB	34.05	1.23E+08	0.62 Y	1.10	1.09	-0.4%	
PCB-109 233'46-PeCB	34.25	6.84E+07	0.62 Y	1.25	1.22	-3.0%	
PCB-106 233'45-PeCB	34.47	6.17E+07	0.62 Y	1.11	1.10	-0.9%	
PCB-122 233'4'5'-PeCB	34.93	5.83E+07	0.62 Y	0.99	1.01	1.7%	
PCB-127 33'455'-PeCB	36.88	6.29E+07	0.62 Y	1.10	1.10	0.7%	
PCB-155 22'44'66'-HxCB	30.22	7.18E+07	1.27 Y	1.26	-	-	
PCB-152 22'3566'-HxCB	30.39	6.57E+07	1.25 Y	1.17	1.09	-6.7%	
PCB-150 22'34'66'-HxCB	30.53	6.58E+07	1.27 Y	1.18	1.10	-6.8%	
PCB-136 22'33'66'-HxCB	30.83	6.10E+07	1.28 Y	1.07	1.02	-4.7%	
PCB-145 22'3466'-HxCB	31.10	6.28E+07	1.25 Y	1.11	1.05	-6.2%	
PCB-148 22'34'56'-HxCB	32.37	4.69E+07	1.26 Y	1.18	1.08	-8.5%	
PCB-151/135 ...-HxCB	32.89	8.99E+07	1.26 Y	1.14	1.04	-9.0%	
PCB-154 22'44'56'-HxCB	33.10	5.29E+07	1.26 Y	1.34	1.22	-9.1%	
PCB-144 22'345'6-HxCB	33.36	4.67E+07	1.26 Y	1.18	1.08	-8.9%	
PCB-147/149 ...-HxCB	33.67	9.27E+07	1.26 Y	1.18	1.07	-9.0%	
PCB-134 22'33'56-HxCB	33.84	3.80E+07	1.26 Y	0.92	0.88	-5.1%	
PCB-143 22'3456'-HxCB	33.92	4.29E+07	1.28 Y	1.13	0.99	-12.3%	
PCB-139/140 ...-HxCB	34.18	9.53E+07	1.26 Y	1.21	1.10	-8.8%	
PCB-131 22'33'46-HxCB	34.36	4.01E+07	1.27 Y	1.03	0.93	-9.7%	
PCB-142 22'3456-HxCB	34.50	3.97E+07	1.25 Y	0.99	0.92	-7.5%	
PCB-132 22'33'46'-HxCB	34.74	4.12E+07	1.28 Y	1.03	0.95	-7.8%	
PCB-133 22'33'55'-HxCB	35.14	4.36E+07	1.27 Y	1.13	1.01	-11.1%	
PCB-165 233'55'6-HxCB	35.48	5.67E+07	1.27 Y	1.41	1.31	-7.2%	
PCB-146 22'34'55'-HxCB	35.70	4.83E+07	1.25 Y	1.20	1.11	-7.3%	
PCB-161 233'45'6-HxCB	35.81	6.12E+07	1.27 Y	1.52	1.41	-7.3%	
PCB-153/168 ...-HxCB	36.24	1.19E+08	1.26 Y	1.46	1.38	-5.4%	
PCB-141 22'3455'-HxCB	36.39	4.36E+07	1.27 Y	1.09	1.01	-7.6%	
PCB-130 22'33'45'-HxCB	36.73	3.86E+07	1.28 Y	0.97	0.89	-8.5%	
PCB-137 22'344'5-HxCB	36.93	4.64E+07	1.24 Y	1.16	1.07	-8.0%	
PCB-164 233'4'5'6-HxCB	37.01	6.15E+07	1.27 Y	1.50	1.42	-5.3%	
PCB-163/138/129 ...-HxCB	37.30	1.44E+08	1.27 Y	1.19	1.11	-6.6%	

Lab ID: - Ax2 Detail		Processed: 6-Apr-2014 16:14				
Lab ID:	CS3_140403_PCB_XB	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	03-APR-2014 15:20					
Datafile:	140403X04					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	37.44	5.74E+07	1.27 Y	1.52	1.32	-12.7%
PCB-158 233'44'6-HxCB	37.62	6.52E+07	1.26 Y	1.66	1.50	-9.5%
PCB-128/166 ...-HxCB	38.36	9.14E+07	1.22 Y	0.90	0.89	-1.2%
PCB-159 233'455'-HxCB	39.17	5.51E+07	1.22 Y	1.11	1.07	-3.9%
PCB-162 233'4'55'-HxCB	39.41	5.45E+07	1.22 Y	1.07	1.06	-1.2%
PCB-188 22'34'566'-HpCB	35.10	5.06E+07	1.06 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.38	4.85E+07	1.06 Y	1.16	1.08	-6.7%
PCB-184 22'344'66'-HpCB	35.83	4.58E+07	1.06 Y	1.13	1.02	-9.3%
PCB-176 22'33'466'-HpCB	36.13	5.04E+07	1.07 Y	1.23	1.13	-8.6%
PCB-186 22'34566'-HpCB	36.53	4.79E+07	1.07 Y	1.13	1.07	-4.9%
PCB-178 22'33'55'6-HpCB	37.66	3.38E+07	1.08 Y	0.84	0.75	-10.5%
PCB-175 22'33'45'6-HpCB	38.20	4.07E+07	1.06 Y	1.07	1.06	-1.0%
PCB-187 22'34'55'6-HpCB	38.43	4.37E+07	1.06 Y	1.14	1.14	0.1%
PCB-182 22'344'56'-HpCB	38.61	4.43E+07	1.05 Y	1.18	1.16	-1.6%
PCB-183 22'344'5'6-HpCB	38.95	4.44E+07	1.06 Y	1.20	1.16	-3.7%
PCB-185 22'3455'6-HpCB	39.04	4.24E+07	1.06 Y	1.06	1.11	4.4%
PCB-174 22'33'456'-HpCB	39.15	3.61E+07	1.05 Y	0.99	0.94	-4.8%
PCB-177 22'33'45'6'-HpCB	39.52	3.58E+07	1.06 Y	0.95	0.93	-1.7%
PCB-181 22'344'56'-HpCB	39.87	4.14E+07	1.04 Y	1.09	1.08	-0.6%
PCB-171/173 ...-HpCB	40.05	7.16E+07	1.05 Y	0.95	0.93	-1.4%
PCB-172 22'33'455'-HpCB	41.40	3.71E+07	1.05 Y	0.99	0.97	-2.0%
PCB-192 233'455'6-HpCB	41.65	4.95E+07	1.06 Y	1.29	1.29	0.5%
PCB-180/193 ...-HpCB	41.92	9.42E+07	1.05 Y	1.26	1.23	-2.5%
PCB-191 233'44'5'6-HpCB	42.25	5.21E+07	1.05 Y	1.40	1.36	-2.6%
PCB-170 22'33'44'5-HpCB	43.03	3.57E+07	1.05 Y	1.14	1.11	-2.3%
PCB-190 233'44'56-HpCB	43.48	5.15E+07	1.05 Y	1.66	1.60	-3.6%
PCB-202 22'33'55'66'-OcCB	39.63	4.06E+07	0.91 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.41	4.53E+07	0.91 Y	1.22	1.12	-8.6%
PCB-204 22'344'566'-OcCB	40.99	4.24E+07	0.91 Y	1.12	1.04	-6.4%
PCB-197 22'33'44'66'-OcCB	41.18	4.82E+07	0.90 Y	1.19	1.19	-0.3%
PCB-200 22'33'4566'-OcCB	41.27	4.02E+07	0.91 Y	1.11	0.99	-10.6%
PCB-198/199 ...-OcCB	43.59	5.91E+07	0.90 Y	0.81	0.73	-10.1%
PCB-196 22'33'44'56'-OcCB	44.16	3.13E+07	0.89 Y	0.83	0.77	-7.6%
PCB-203 22'344'55'6-OcCB	44.33	3.24E+07	0.90 Y	0.87	0.80	-8.8%
PCB-195 22'33'44'56-OcCB	45.46	2.63E+07	0.90 Y	0.77	0.70	-8.2%
PCB-194 22'33'44'55'-OcCB	47.40	2.92E+07	0.89 Y	0.84	0.78	-7.3%
PCB-205 233'44'55'6-OcCB	47.80	3.77E+07	0.89 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.25	4.25E+07	0.78 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.04	4.43E+07	0.78 Y	1.19	1.14	-3.8%
PCB-206 22'33'44'55'6-NoCB	49.26	2.93E+07	0.77 Y	1.11	-	-

SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

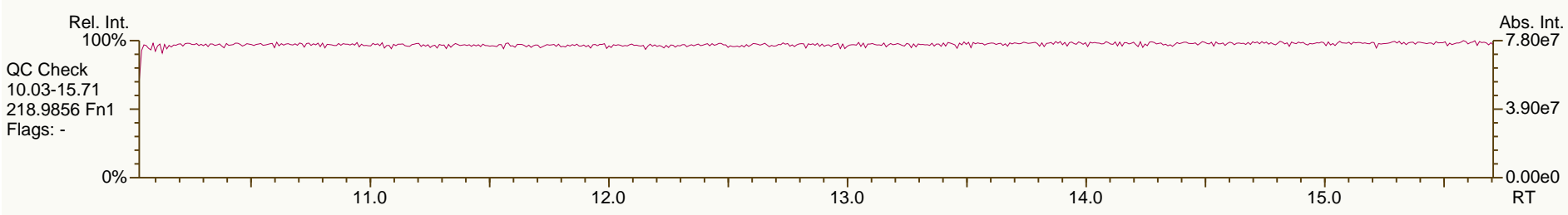
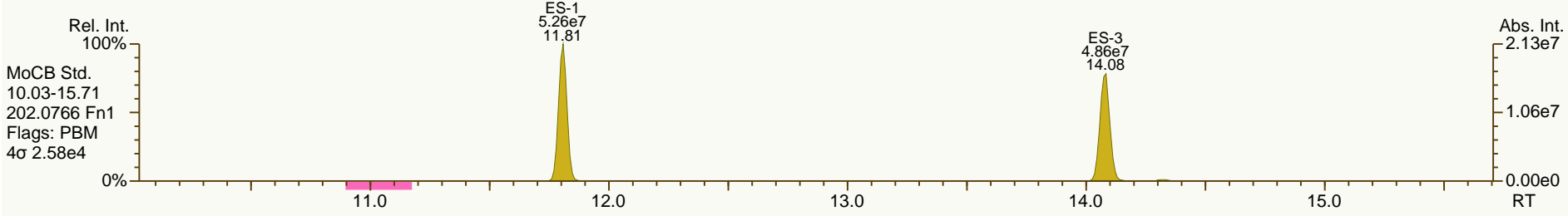
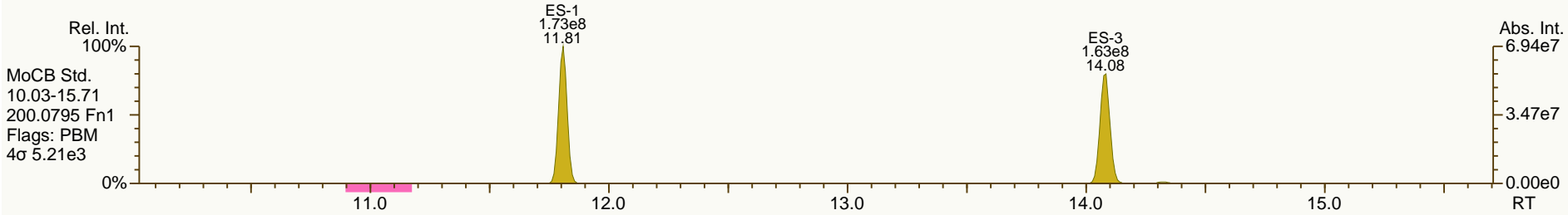
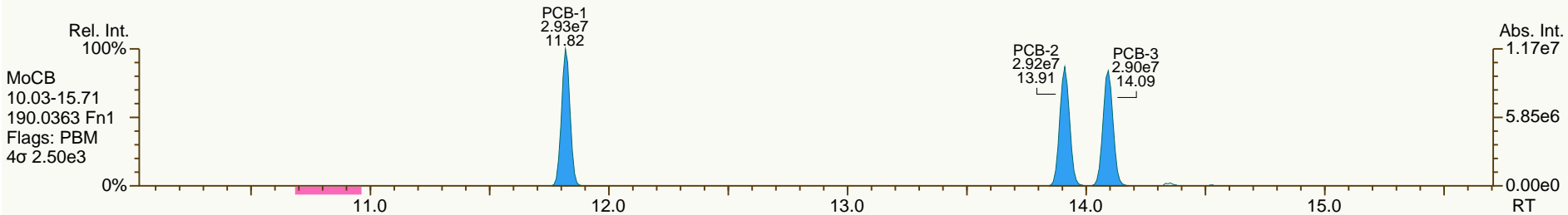
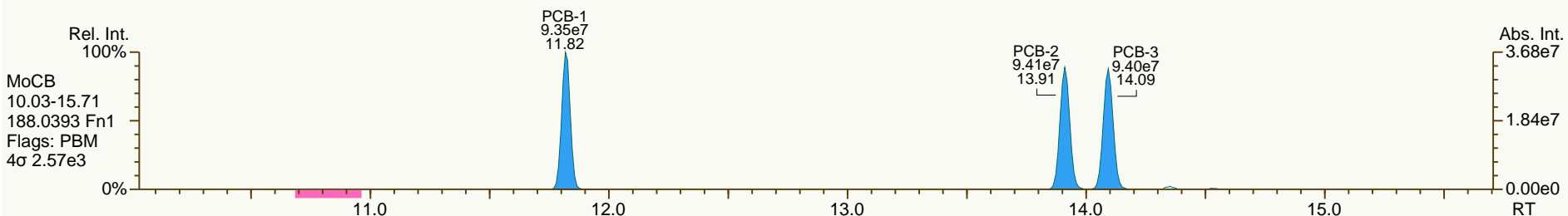
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SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

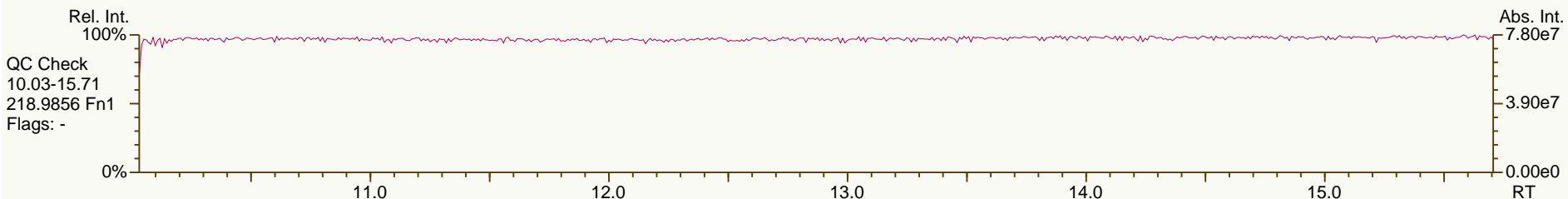
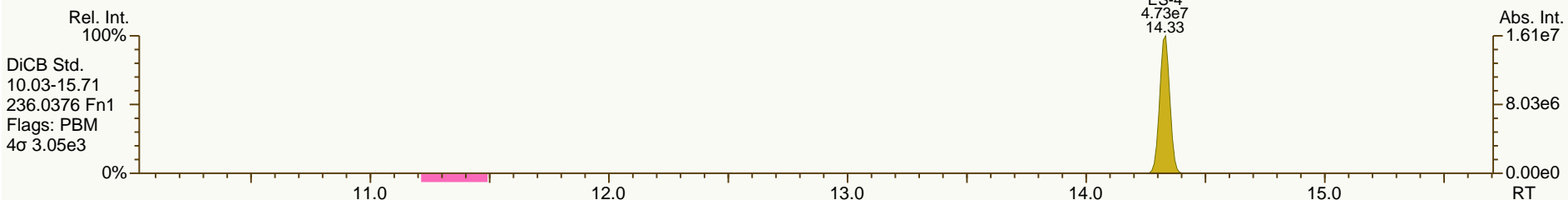
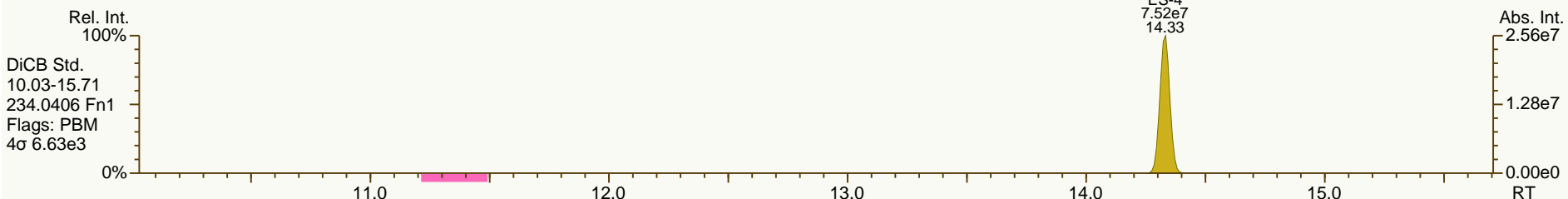
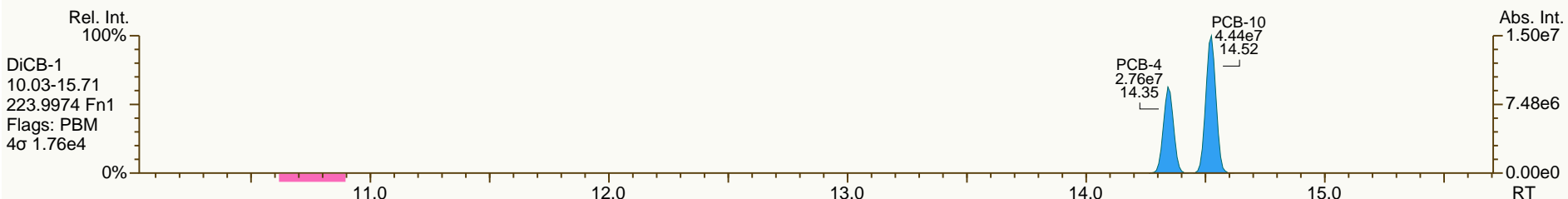
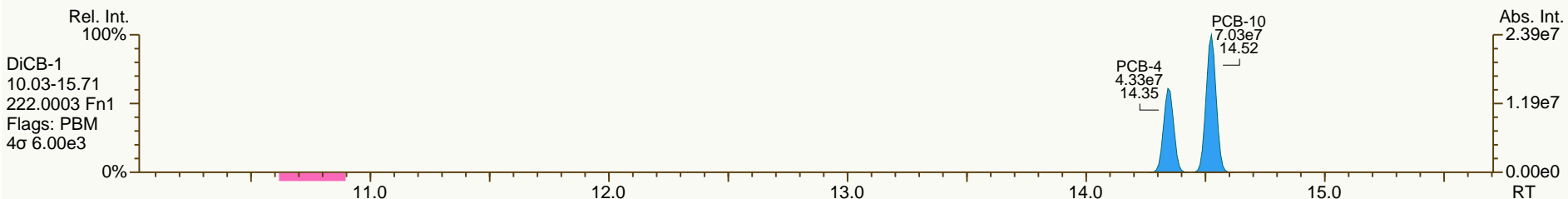
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SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

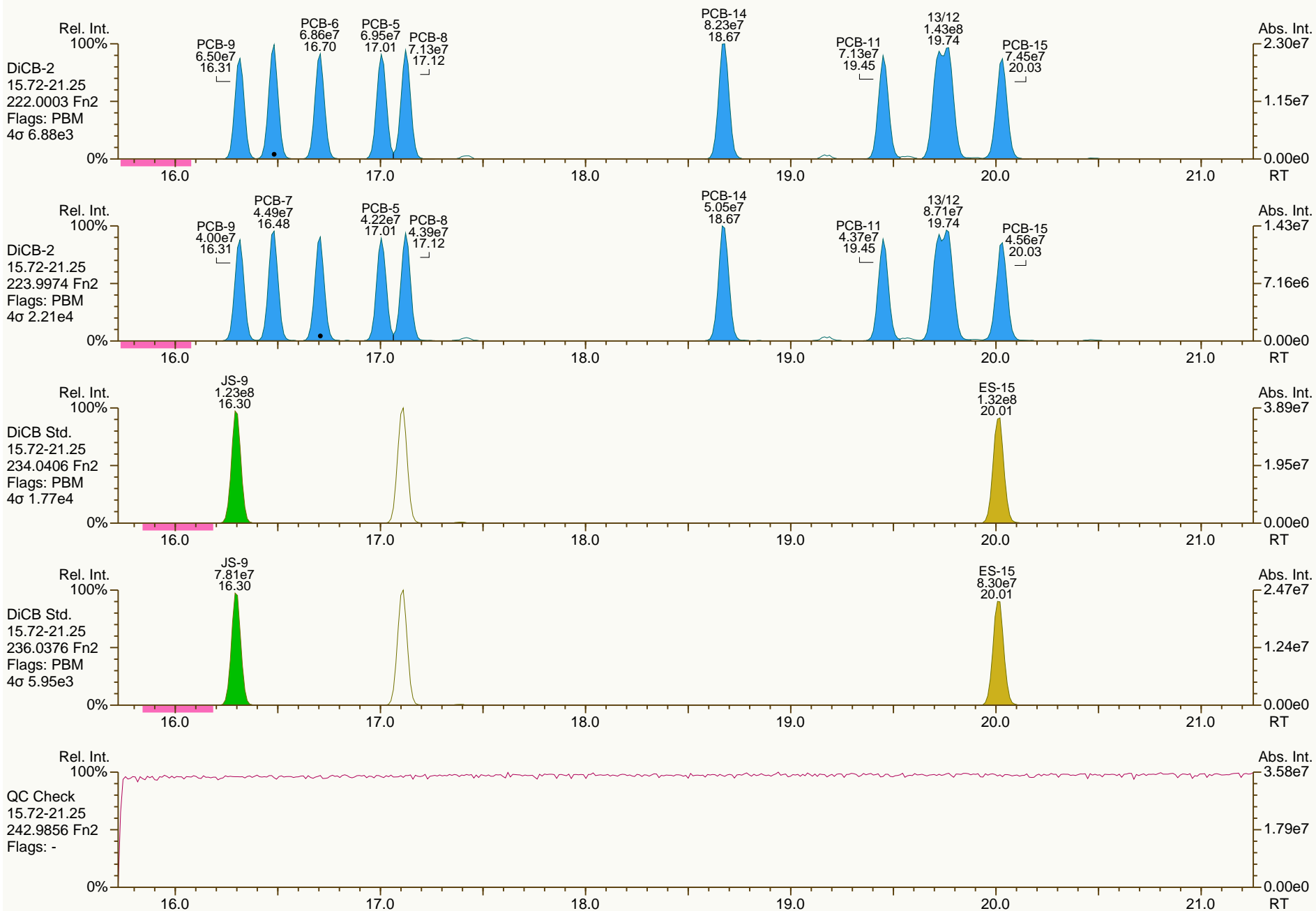
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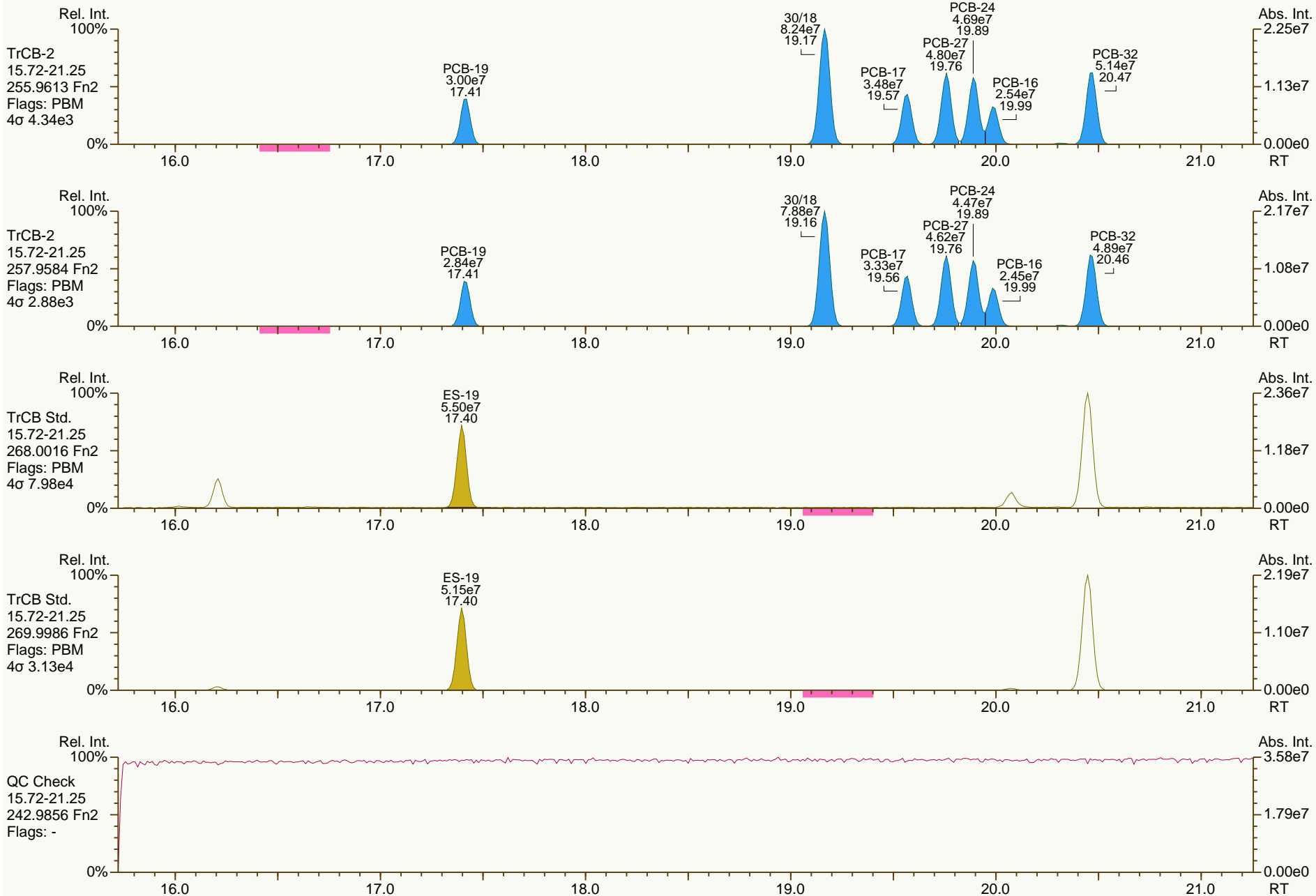
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SGS ID: CS3\_140403\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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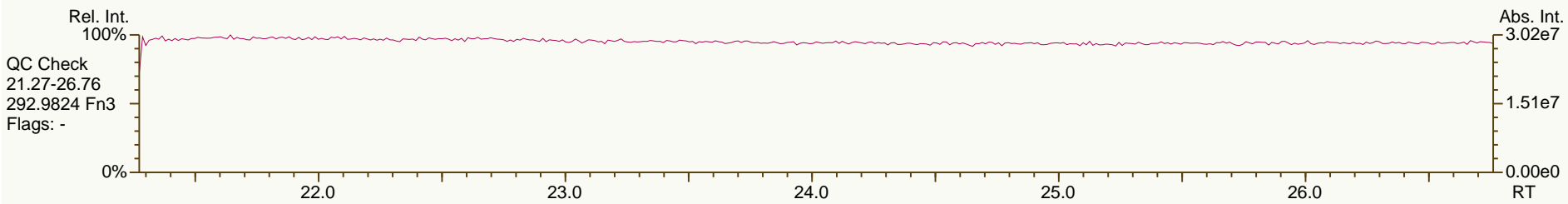
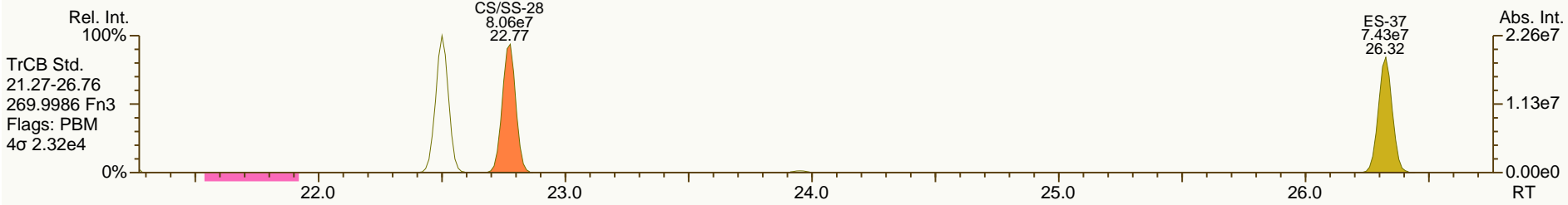
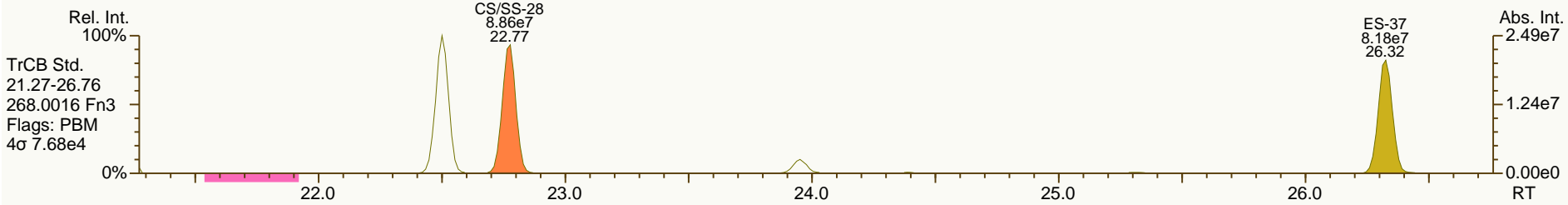
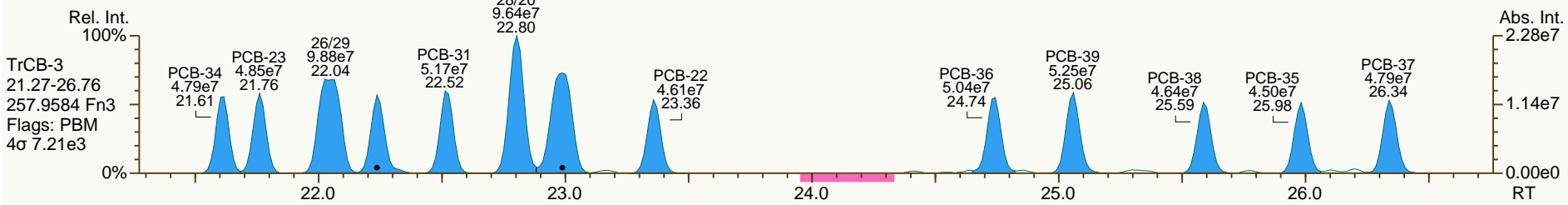
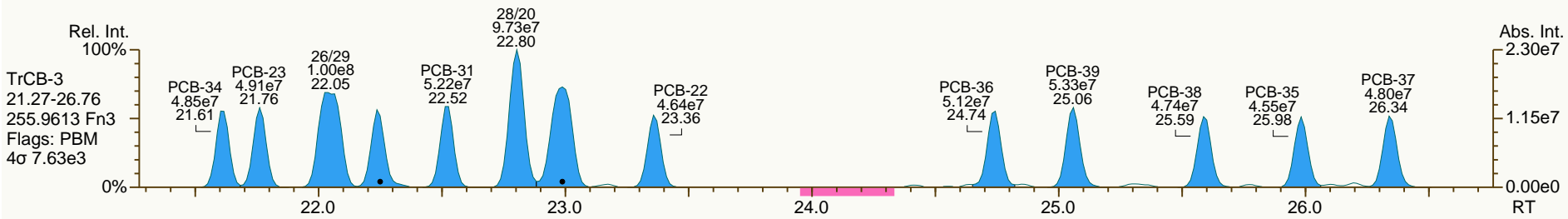
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SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

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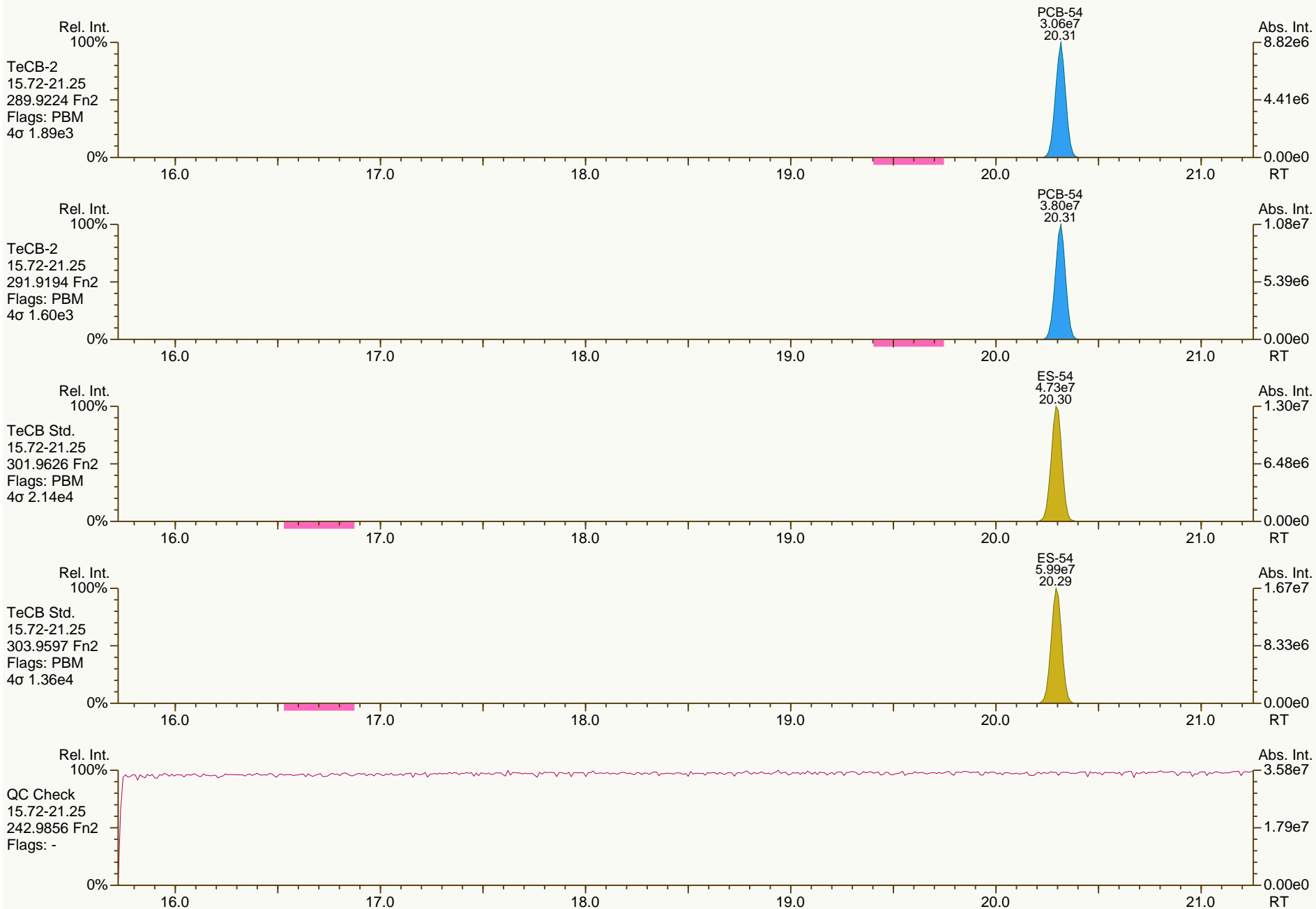




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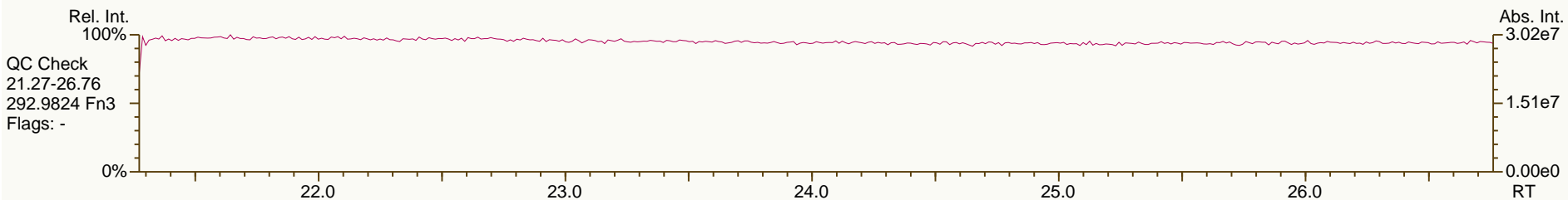
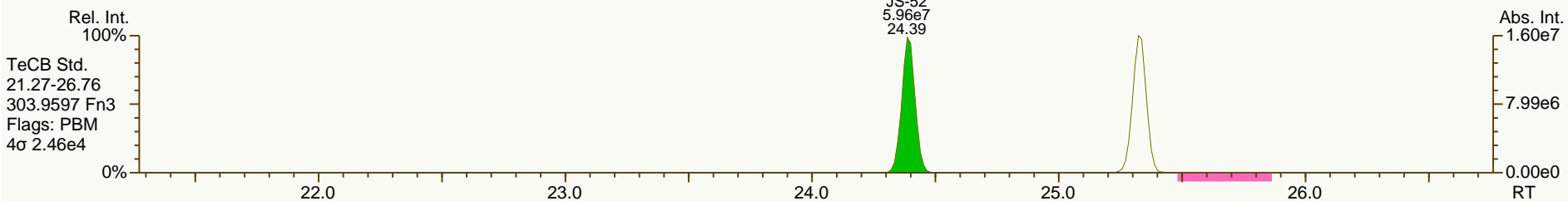
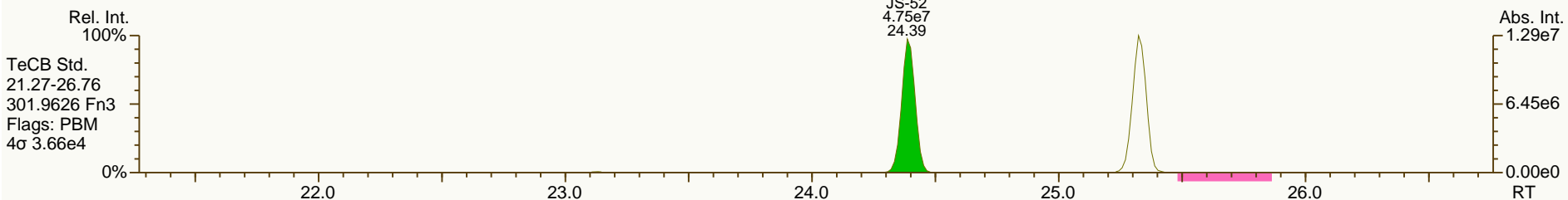
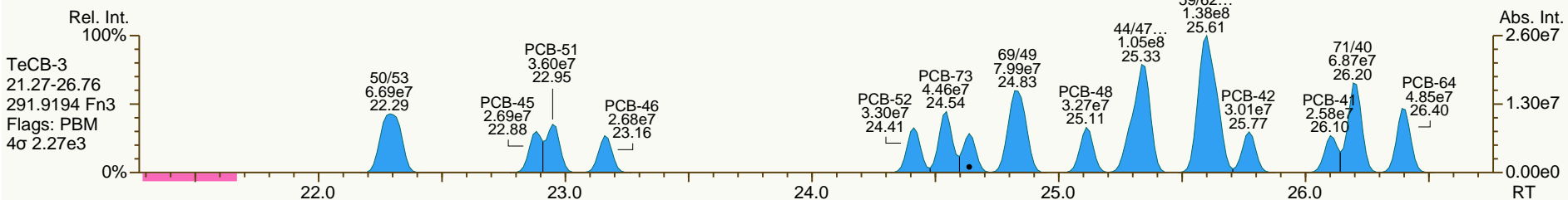
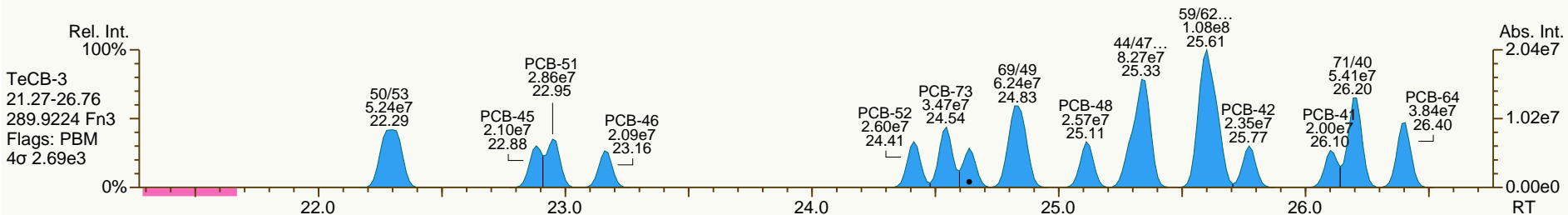
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SGS ID: CS3\_140403\_PCB\_XB  
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Sample ID: SIL 13-79-3  
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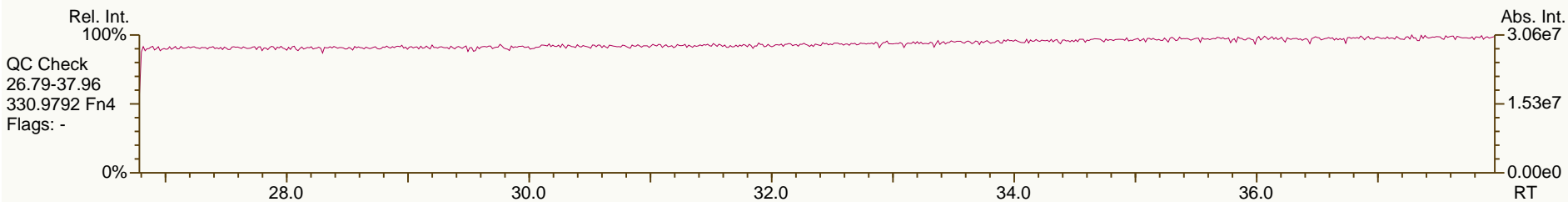
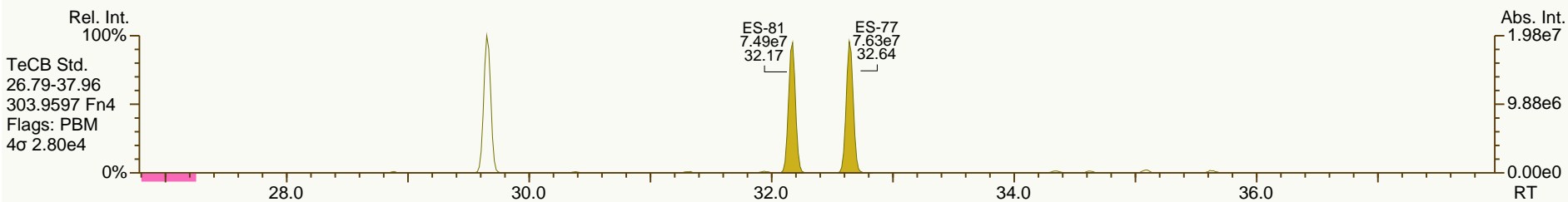
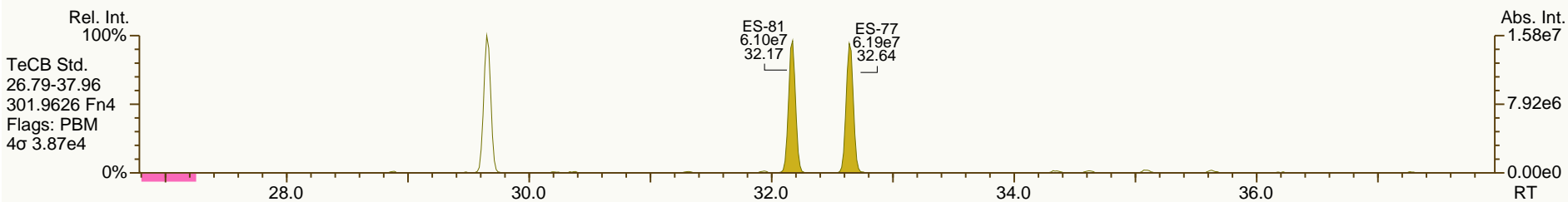
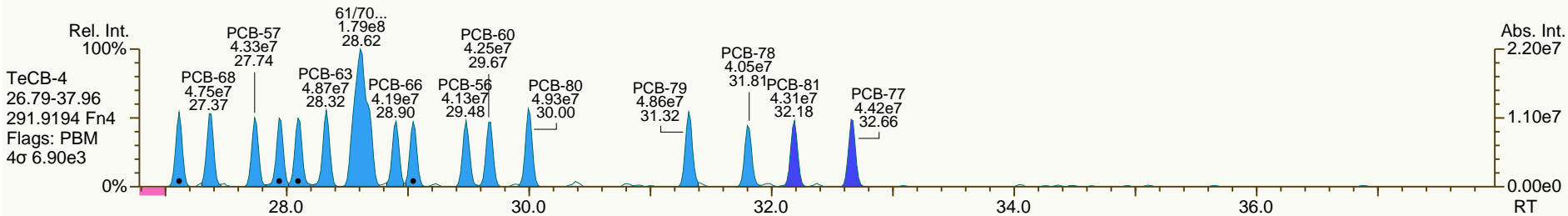
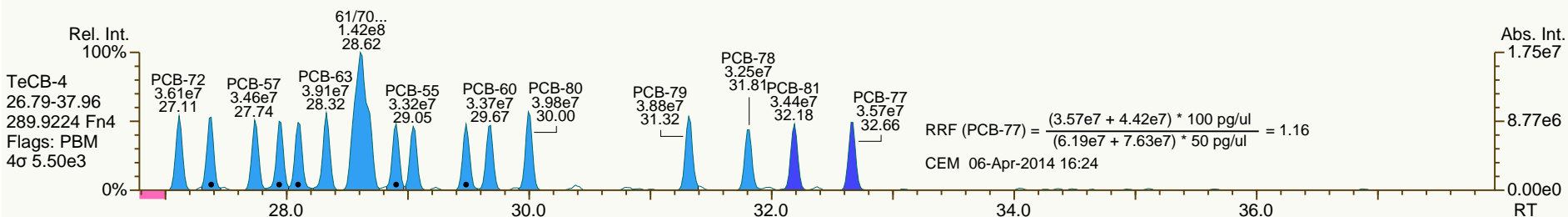
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SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

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 User: LKB Datafile: 140403X04



SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

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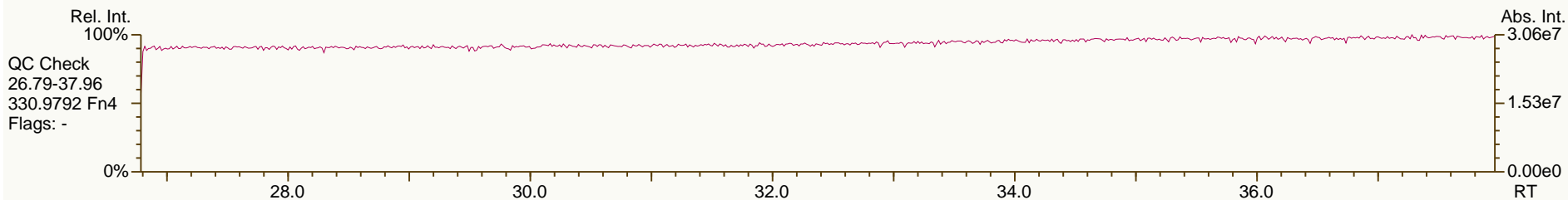
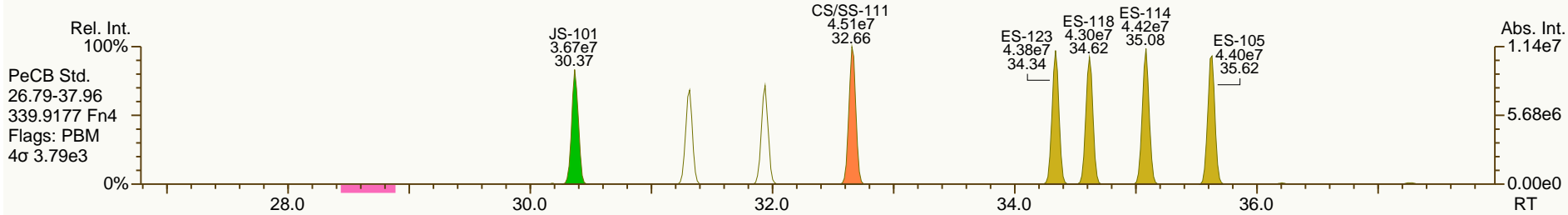
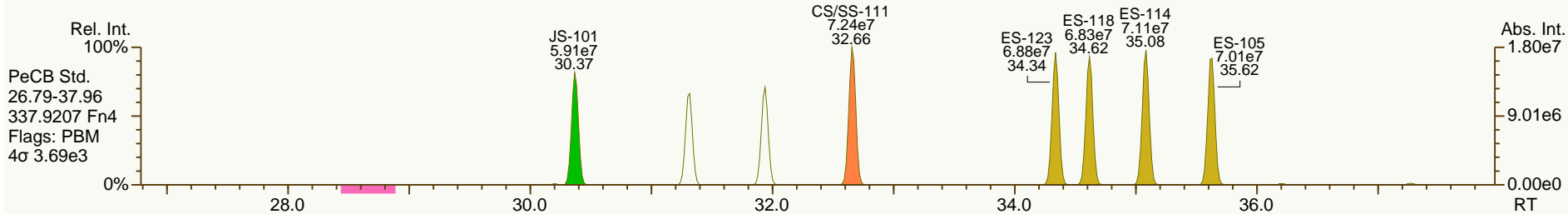
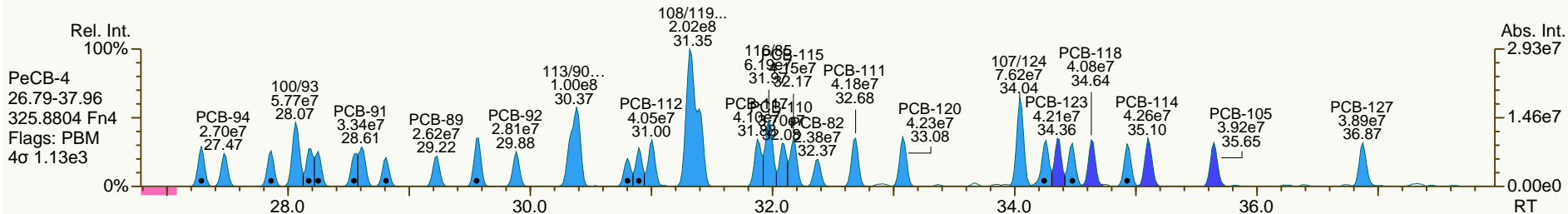
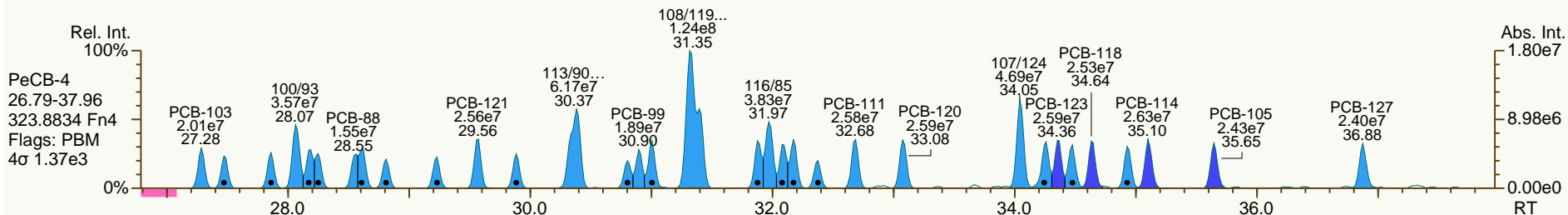
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SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

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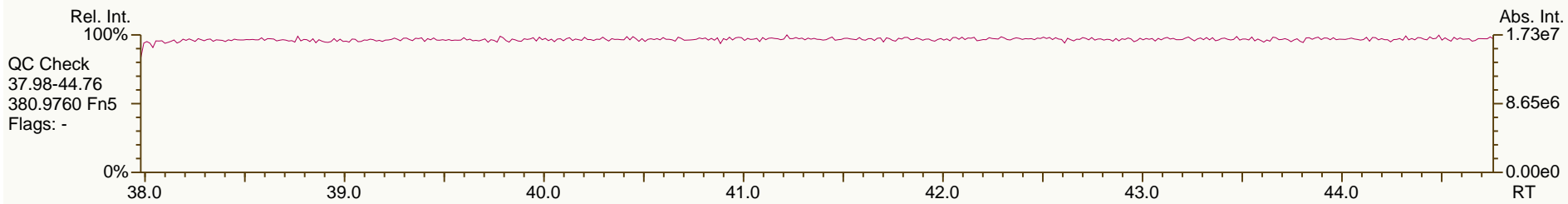
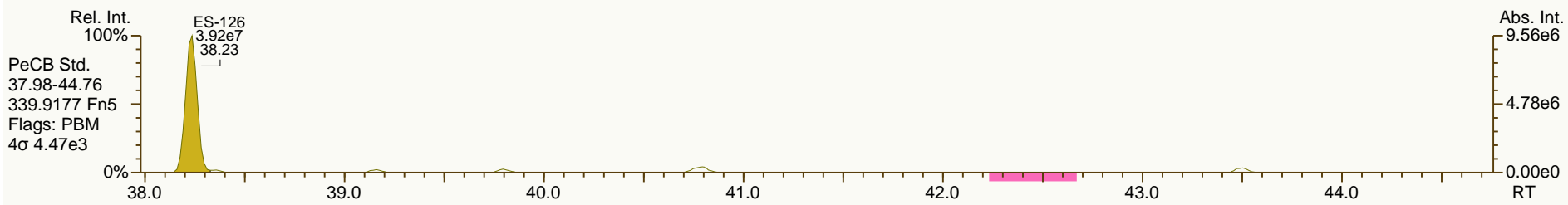
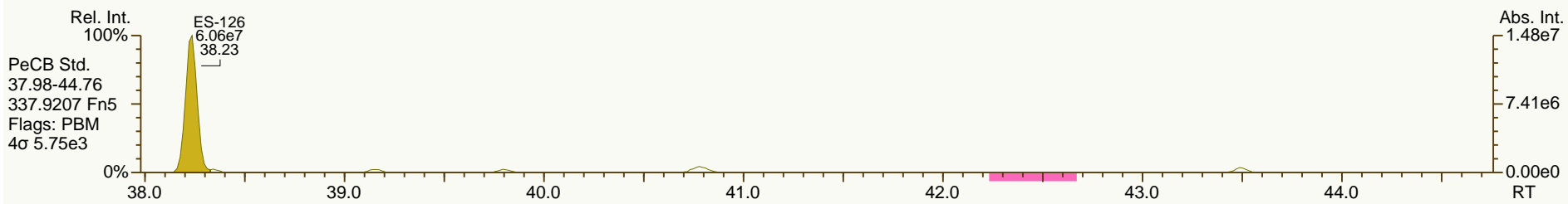
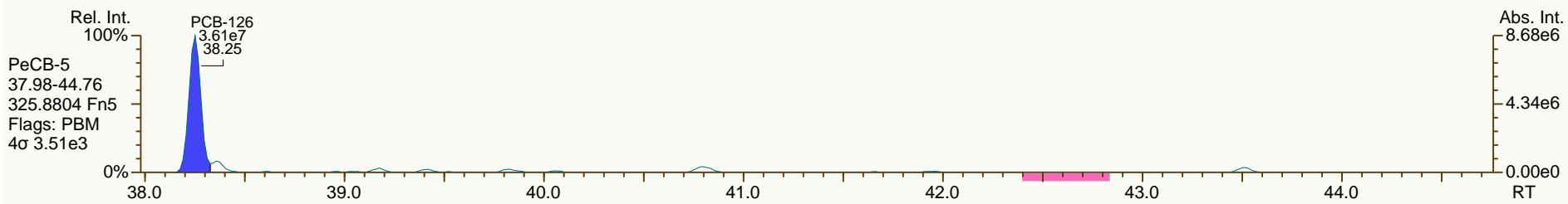
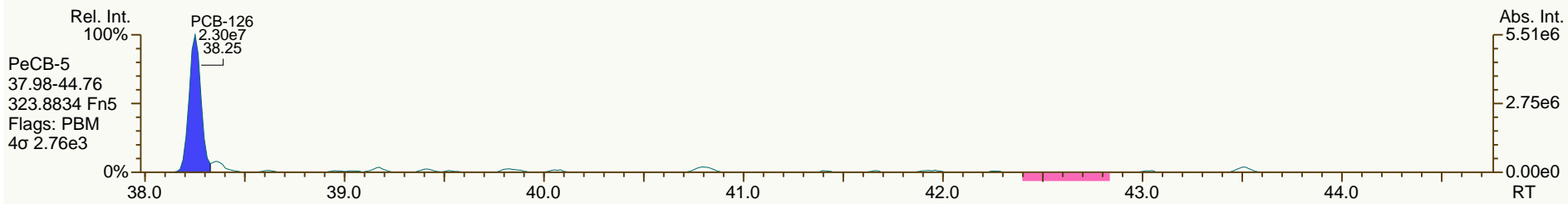
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SGS ID: CS3\_140403\_PCB\_XB  
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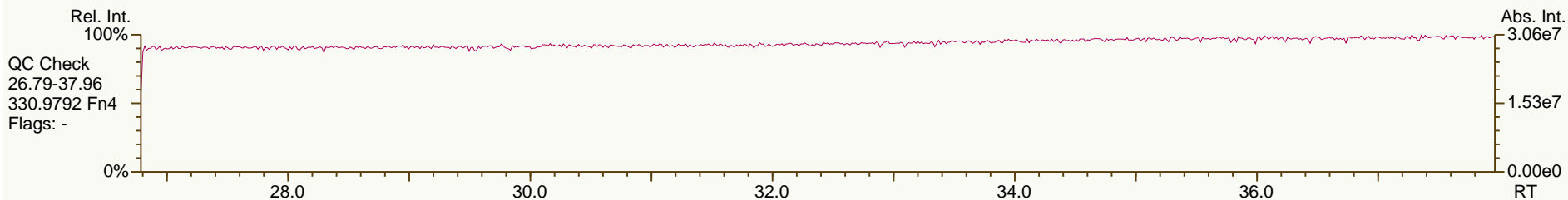
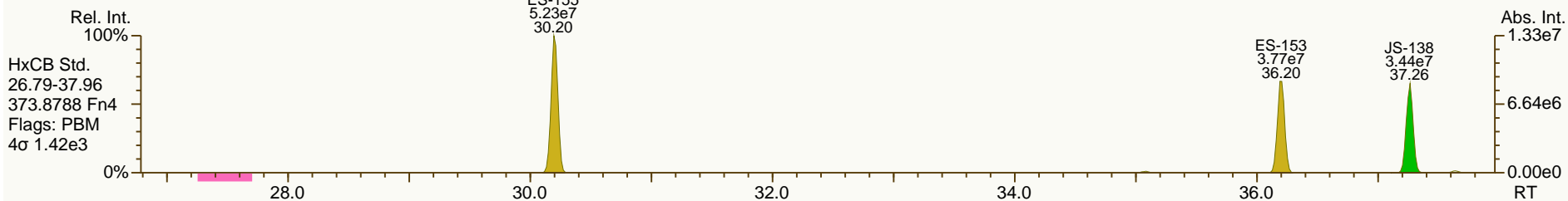
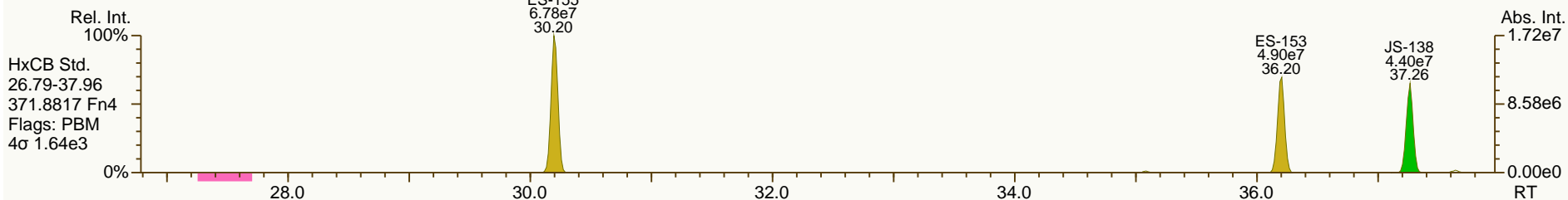
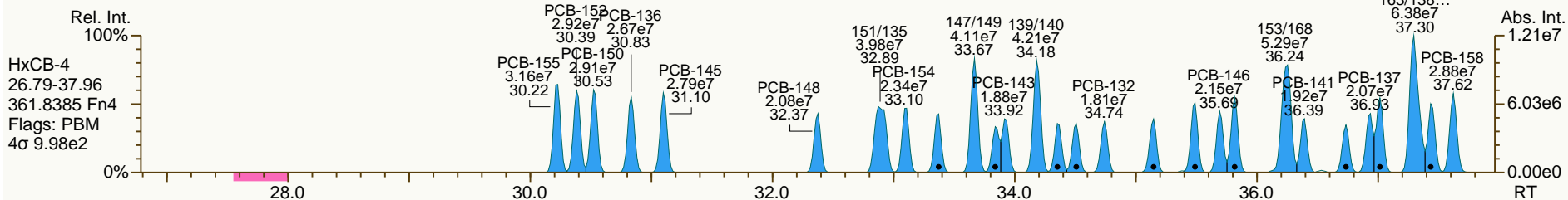
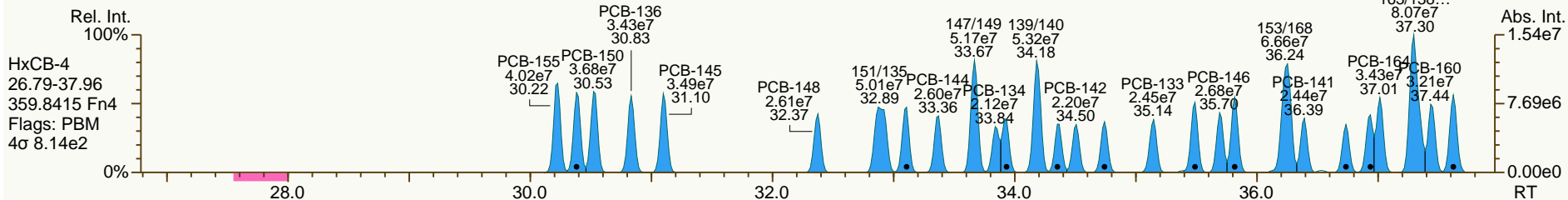
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SGS ID: CS3\_140403\_PCB\_XB  
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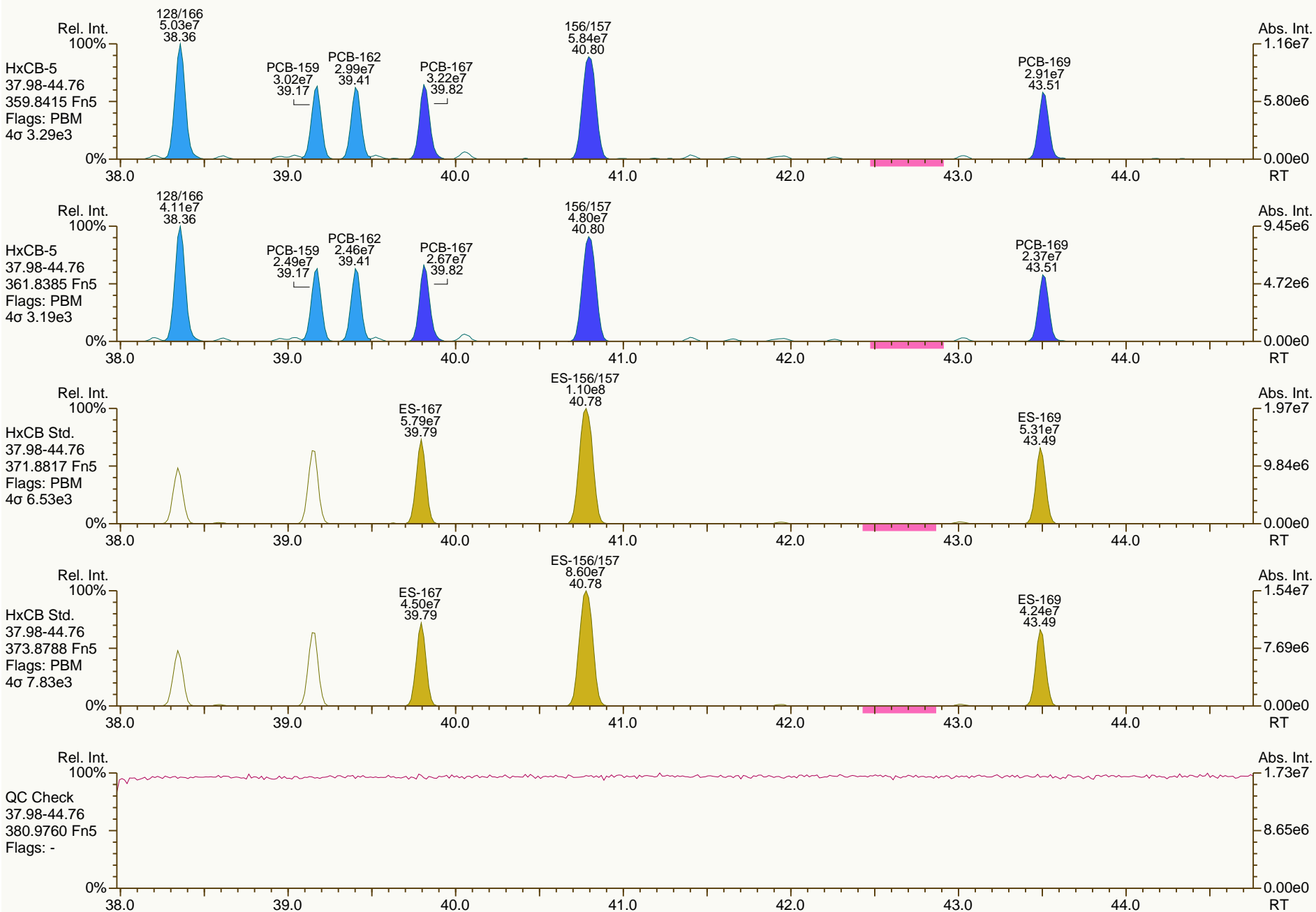
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Sample ID: SIL 13-79-3  
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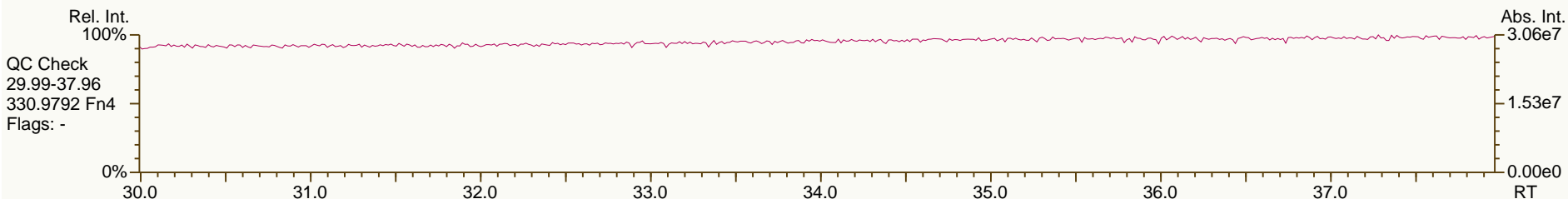
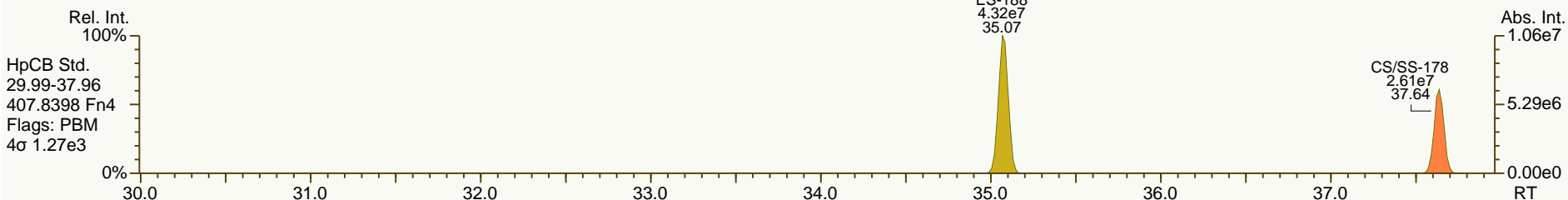
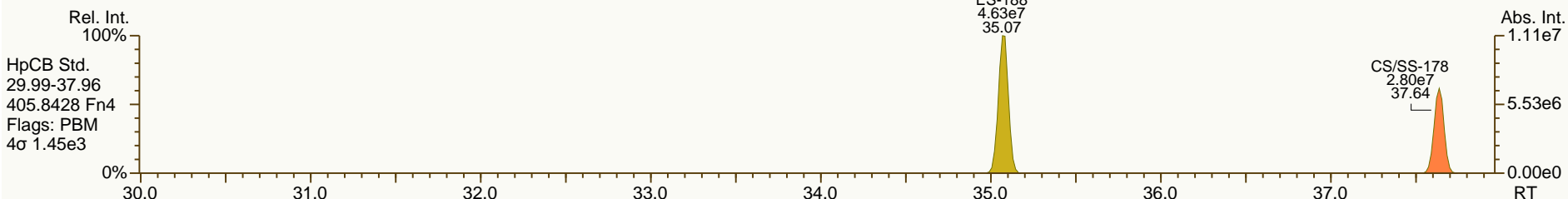
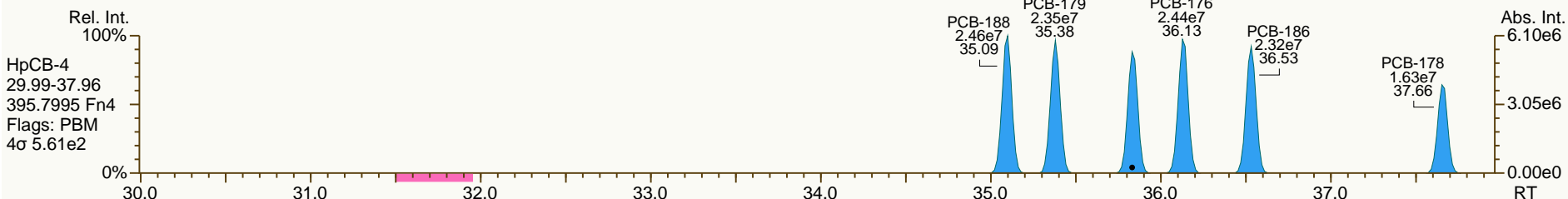
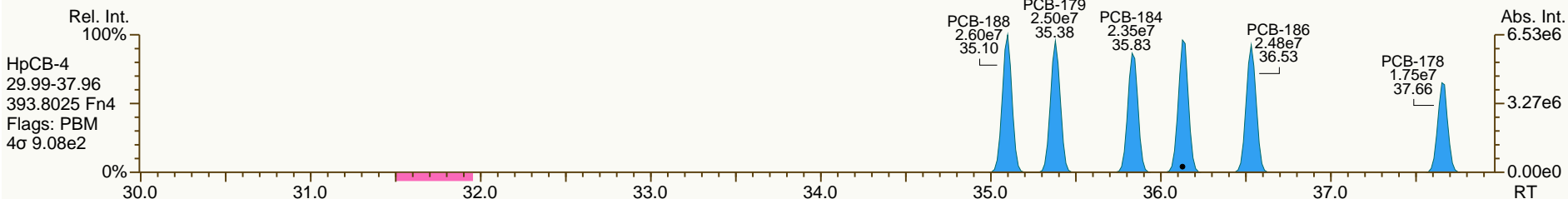




SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

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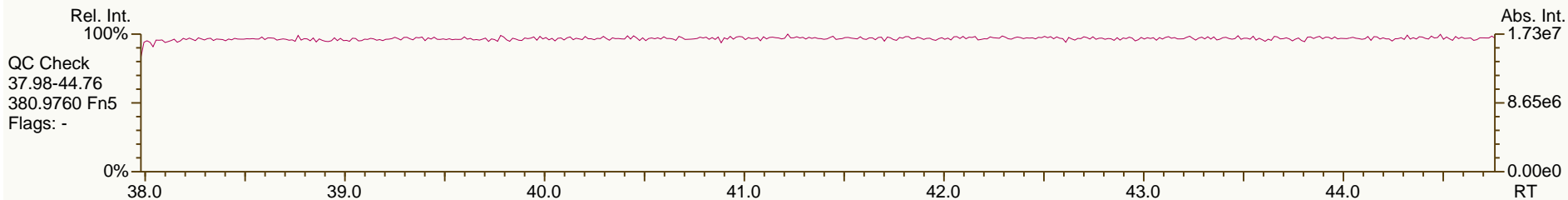
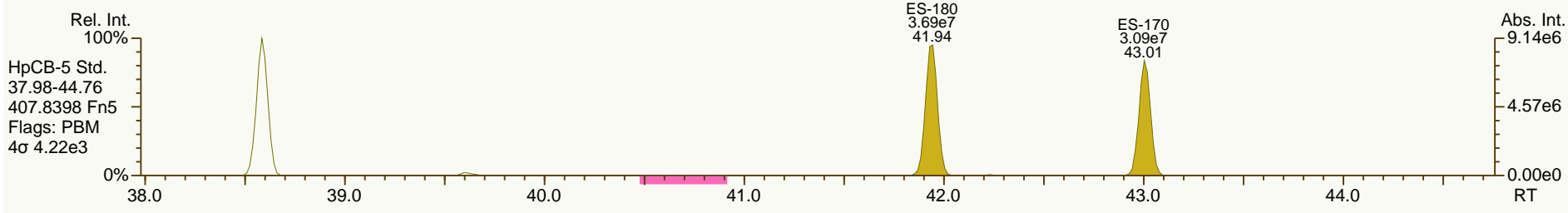
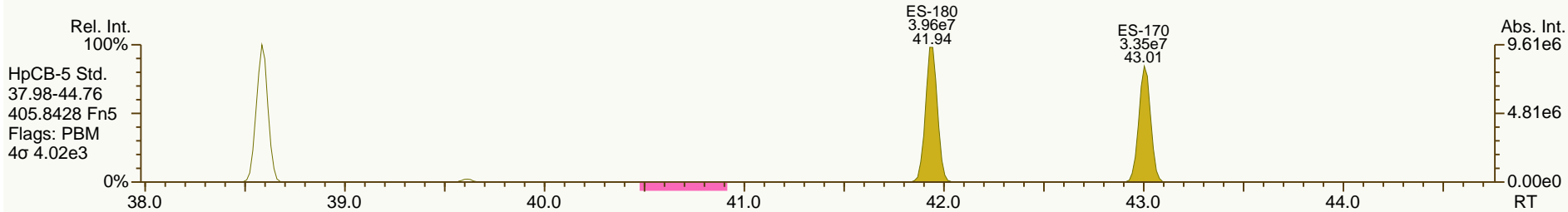
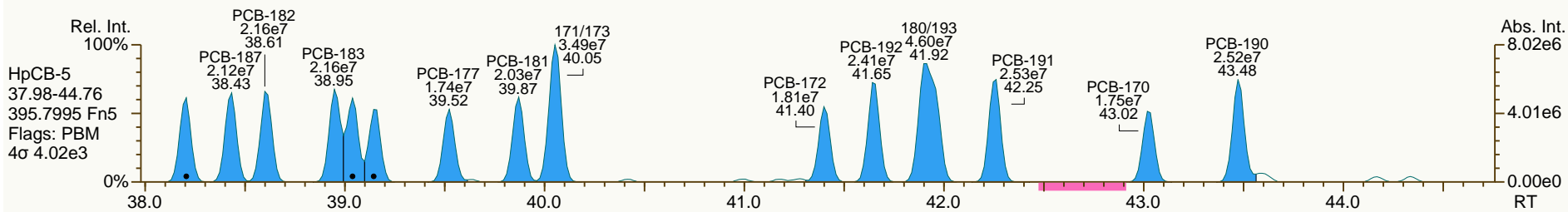
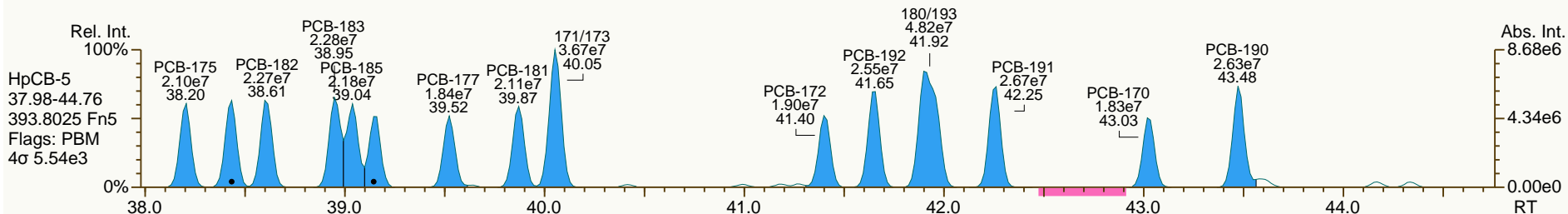
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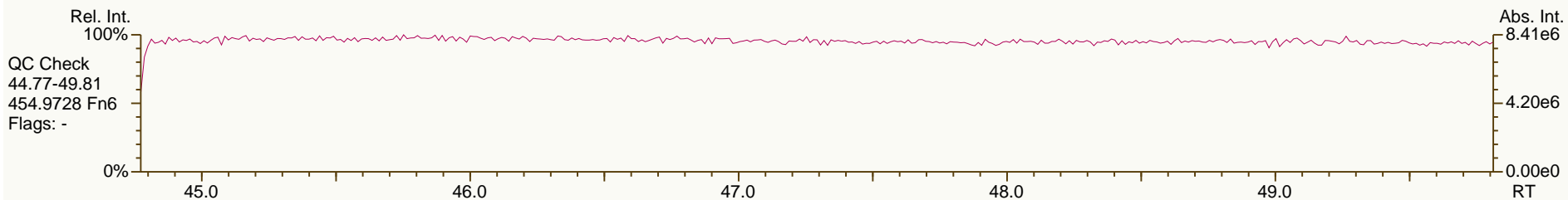
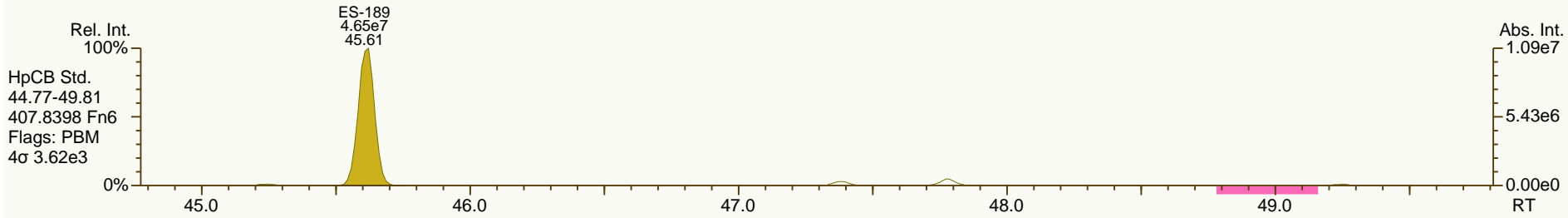
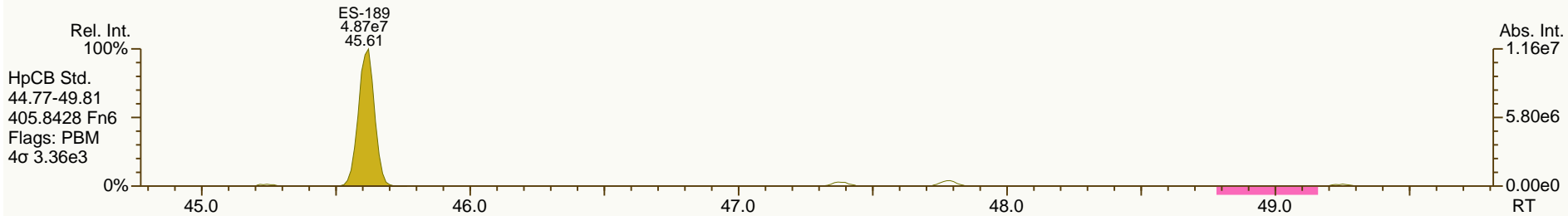
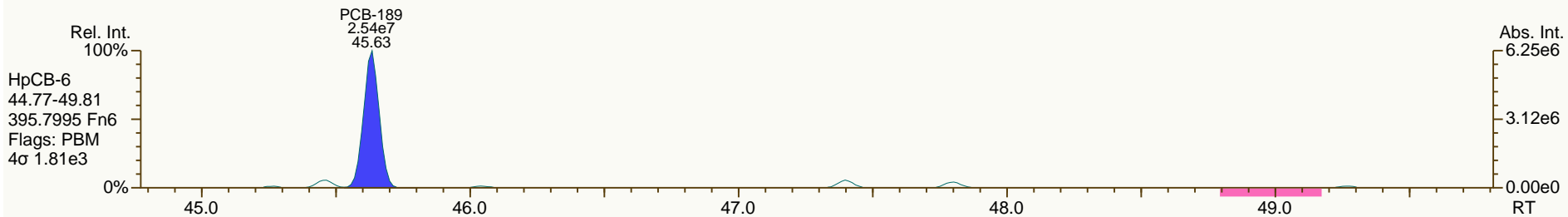
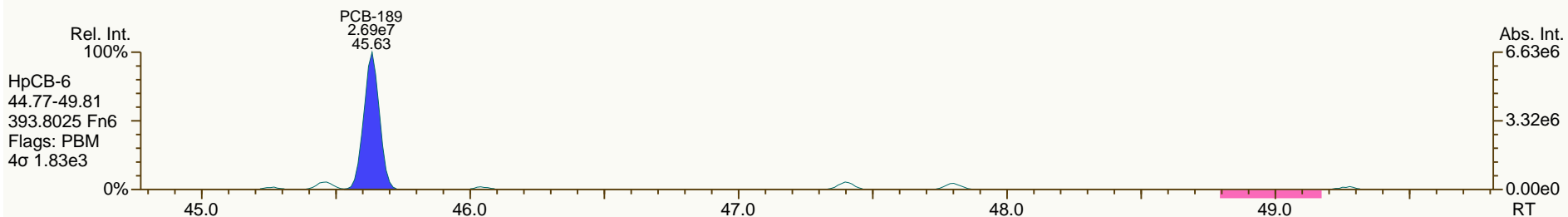
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 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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SGS ID: CS3\_140403\_PCB\_XB  
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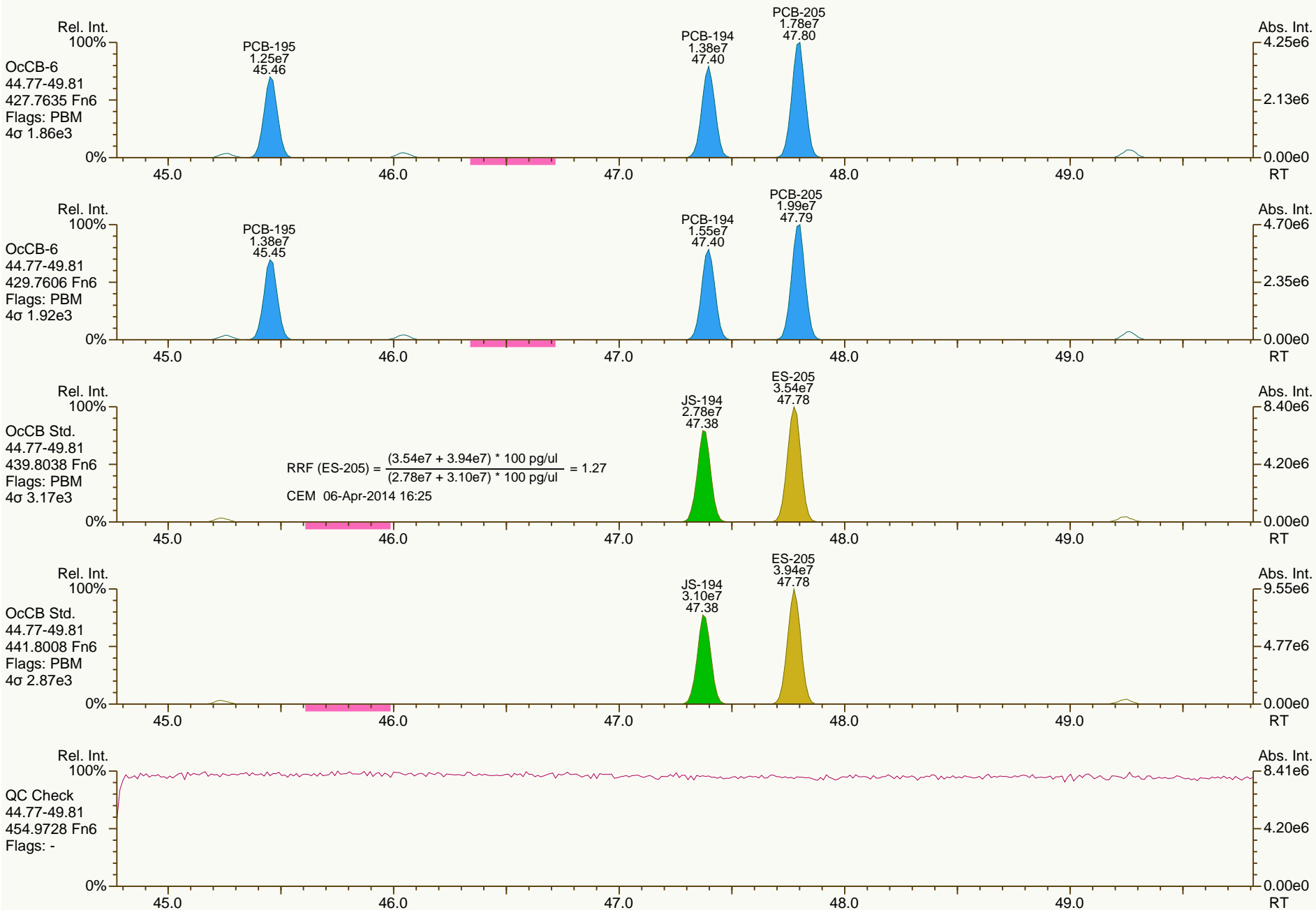
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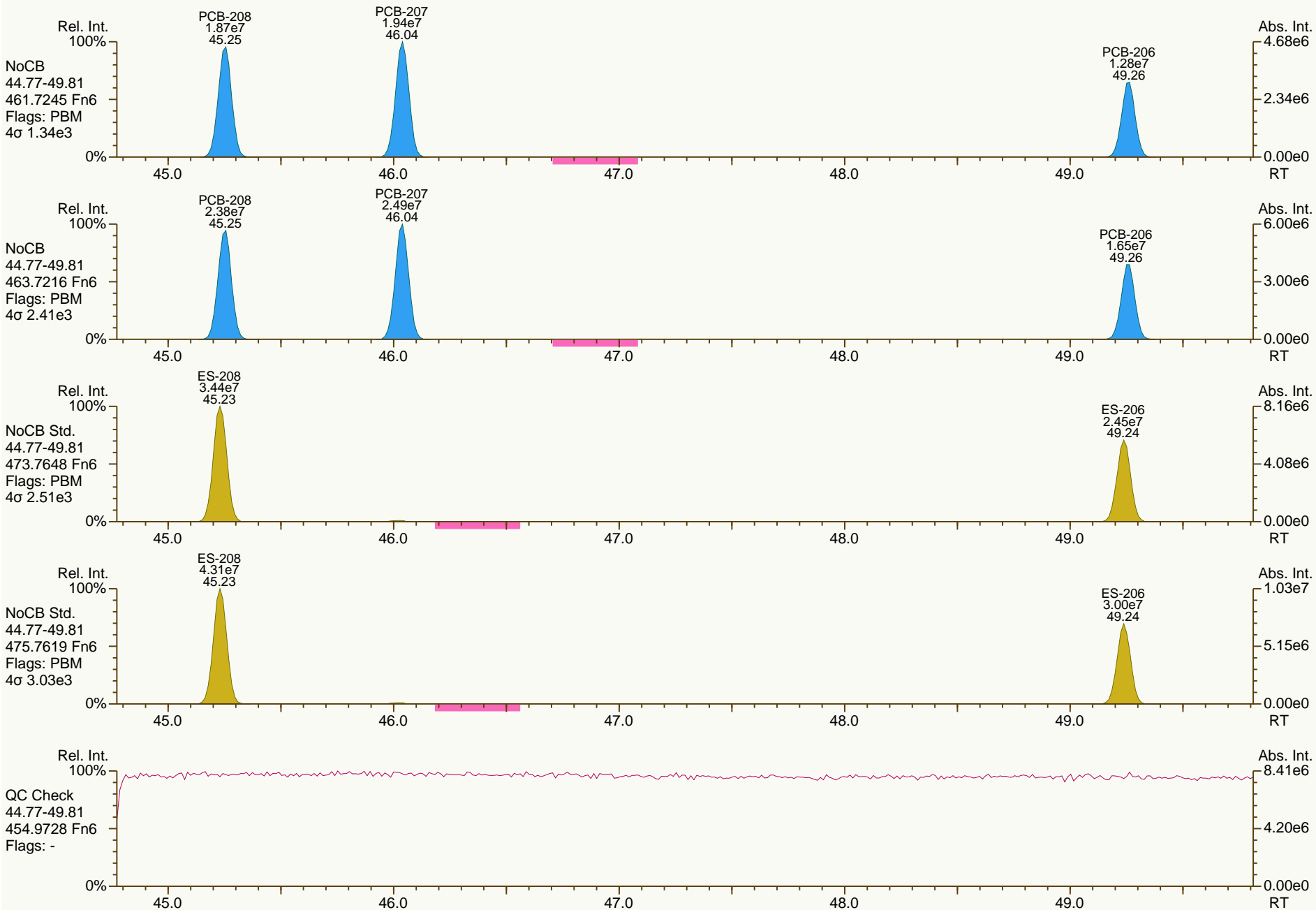
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SGS ID: CS3\_140403\_PCB\_XB  
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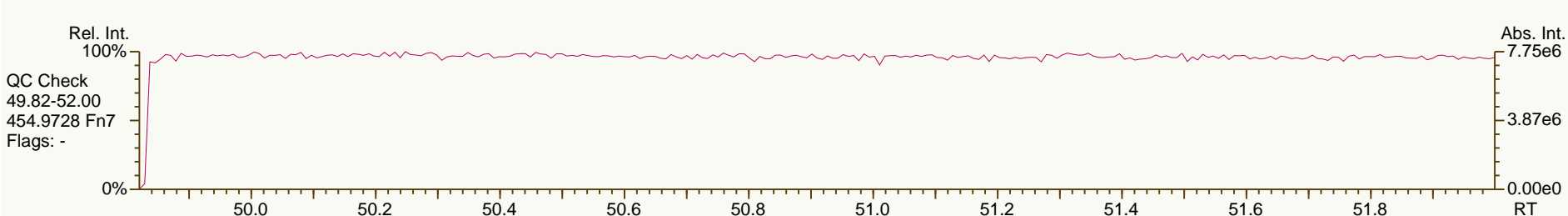
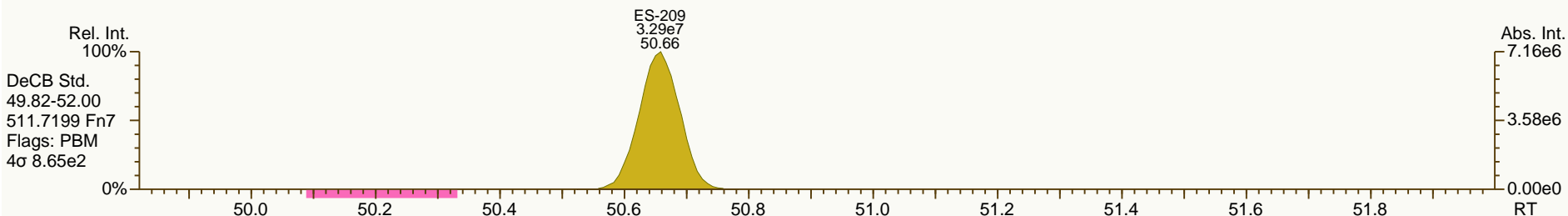
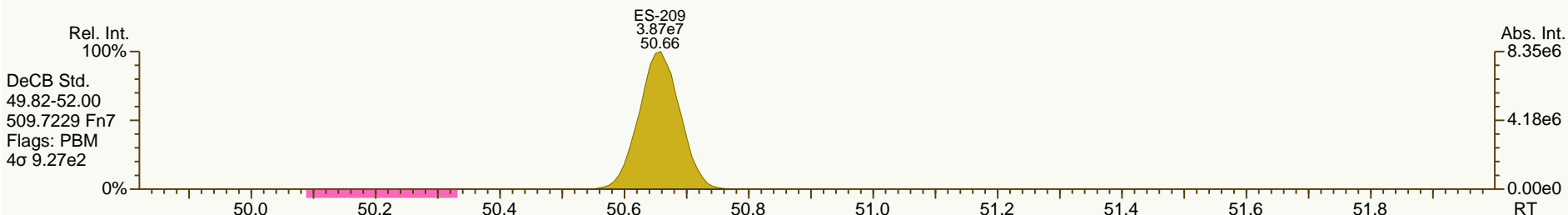
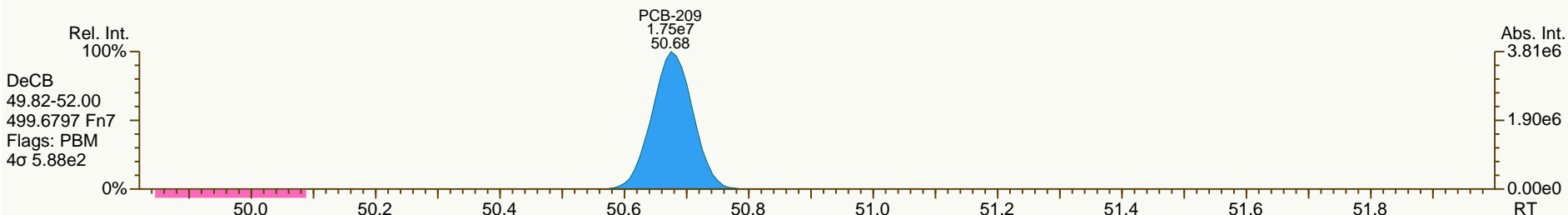
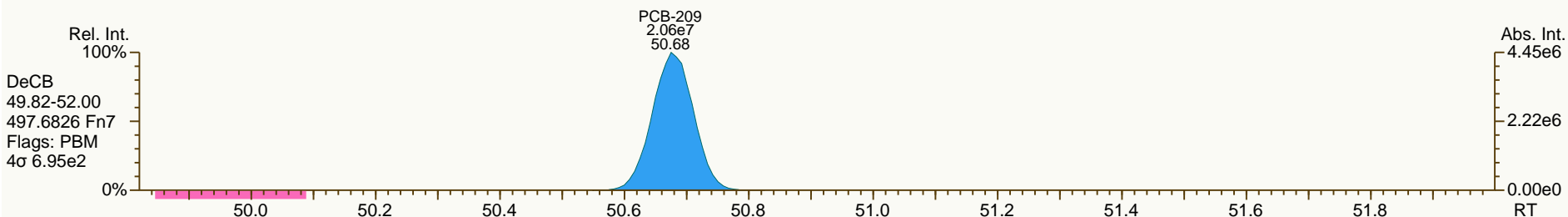
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SGS ID: CS3\_140403\_PCB\_XB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

Acq: 03-Apr-2014 15:20:55  
 User: LKB Datafile: 140403X04



PCB QC Summary		SGS Environmental Services			Processed: 6-Apr-2014 16:19		
Lab ID:	CS3_140403_PCB_XC						
Acquired:	03-APR-2014 22:09			ICAL: MM7_PCB_10292013_20DEC2013			
Datafile:	140403X11						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	32.67	8.07E+07	0.80 Y	1.15	1.17	1.6%	
PCB-81 344'5'-TeCB	32.19	7.73E+07	0.79 Y	1.12	1.16	3.7%	
PCB-105 233'44'-PeCB	35.65	6.47E+07	0.62 Y	1.11	1.09	-2.0%	
PCB-114 2344'5'-PeCB	35.11	7.05E+07	0.61 Y	1.20	1.18	-1.6%	
PCB-118 23'44'5'-PeCB	34.65	6.63E+07	0.62 Y	1.19	1.17	-1.3%	
PCB-123 23'44'5'-PeCB	34.36	6.95E+07	0.63 Y	1.21	1.22	0.5%	
PCB-126 33'44'5'-PeCB	38.26	6.12E+07	0.64 Y	1.11	1.20	8.9%	
PCB-156/157 ...-HxCB	40.80	1.13E+08	1.22 Y	1.10	1.09	-0.6%	
PCB-167 23'44'55'-HxCB	39.82	6.15E+07	1.20 Y	1.16	1.14	-2.1%	
PCB-169 33'44'55'-HxCB	43.51	5.41E+07	1.23 Y	1.12	1.11	-1.6%	
PCB-189 233'44'55'-HpCB	45.64	5.43E+07	1.07 Y	1.07	1.10	2.1%	
PCB-209 DeCB	50.68	3.94E+07	1.18 Y	1.11	1.07	-4.3%	
ES PCB-1	11.81	2.26E+08	3.28 Y	1.19	1.13	-5.2%	
ES PCB-3	14.09	2.13E+08	3.34 Y	1.09	1.06	-2.1%	
ES PCB-4	14.34	1.24E+08	1.60 Y	0.52	0.62	18.6%	
ES PCB-15	20.03	2.16E+08	1.58 Y	1.04	1.08	3.6%	
ES PCB-19	17.41	1.08E+08	1.07 Y	0.51	0.54	6.4%	
ES PCB-37	26.33	1.56E+08	1.10 Y	1.66	1.45	-12.9%	
ES PCB-54	20.31	1.10E+08	0.80 Y	0.86	1.02	18.9%	
ES PCB-77	32.65	1.38E+08	0.80 Y	1.38	1.28	-7.5%	
ES PCB-81	32.18	1.33E+08	0.80 Y	1.37	1.24	-9.5%	
ES PCB-104	25.27	1.00E+08	1.64 Y	0.80	1.04	30.0%	
ES PCB-105	35.63	1.19E+08	1.60 Y	1.20	1.24	2.8%	
ES PCB-114	35.09	1.19E+08	1.62 Y	1.22	1.24	1.8%	
ES PCB-118	34.62	1.13E+08	1.60 Y	1.16	1.18	1.4%	
ES PCB-123	34.34	1.14E+08	1.59 Y	1.19	1.19	0.2%	
ES PCB-126	38.24	1.02E+08	1.54 Y	1.03	1.06	3.0%	
ES PCB-153	36.20	8.81E+07	1.30 Y	1.11	1.08	-2.9%	
ES PCB-155	30.21	1.23E+08	1.28 Y	1.59	1.51	-4.9%	
ES PCB-156/157	40.78	2.07E+08	1.28 Y	1.60	1.27	-20.6%	
ES PCB-167	39.80	1.08E+08	1.28 Y	1.67	1.33	-20.4%	
ES PCB-169	43.50	9.78E+07	1.26 Y	1.56	1.20	-22.9%	
ES PCB-170	43.01	6.81E+07	1.10 Y	0.95	1.12	18.7%	
ES PCB-180	41.94	8.07E+07	1.07 Y	1.14	1.33	17.0%	
ES PCB-188	35.08	9.19E+07	1.08 Y	0.94	1.13	20.1%	
ES PCB-189	45.62	9.91E+07	1.03 Y	1.58	1.63	3.3%	
ES PCB-202	39.61	8.57E+07	0.91 Y	0.97	1.05	8.5%	
ES PCB-205	47.78	7.70E+07	0.89 Y	1.24	1.27	2.1%	
ES PCB-206	49.24	5.53E+07	0.80 Y	0.83	0.91	9.9%	
ES PCB-208	45.23	8.15E+07	0.79 Y	1.17	1.34	14.4%	
ES PCB-209	50.66	7.39E+07	1.19 Y	1.11	1.22	9.8%	



PCB QC Summary		SGS Environmental Services			Processed: 6-Apr-2014 16:19		
Lab ID:	CS3_140403_PCB_XC	ICAL: MM7_PCB_10292013_20DEC2013					
Acquired:	03-APR-2014 22:09						
Datafile:	140403X11						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	22.78	1.70E+08	1.09 Y	1.11	1.09	-2.1%	
SS PCB-111	32.67	1.19E+08	1.59 Y	1.03	1.05	1.6%	
SS PCB-178	37.64	5.66E+07	1.07 Y	0.62	0.62	-0.6%	
CS PCB-28	22.78	1.70E+08	1.09 Y	1.85	1.58	-14.7%	
CS PCB-111	32.67	1.19E+08	1.59 Y	1.22	1.24	1.8%	
CS PCB-178	37.64	5.66E+07	1.07 Y	0.58	0.69	19.4%	
JS PCB-9	16.31	2.00E+08	1.57 Y		-	-	
JS PCB-52	24.40	1.08E+08	0.80 Y		-	-	
JS PCB-101	30.38	9.60E+07	1.58 Y		-	-	
JS PCB-138	37.27	8.15E+07	1.29 Y		-	-	
JS PCB-194	47.38	6.06E+07	0.90 Y		-	-	
PCB-1 2-MoCB	11.83	1.23E+08	3.19 Y	0.95	1.09	14.1%	
PCB-3 4-MoCB	14.10	1.22E+08	3.21 Y	1.01	1.15	13.6%	
PCB-4 22'-DiCB	14.36	7.12E+07	1.58 Y	1.23	1.15	-7.0%	
PCB-15 44'-DiCB	20.04	1.20E+08	1.64 Y	1.02	1.11	9.1%	
PCB-19 22'6'-TrCB	17.43	5.91E+07	1.05 Y	1.15	1.10	-4.4%	
PCB-37 344'-TrCB	26.35	9.63E+07	1.01 Y	1.08	1.23	14.4%	
PCB-54 22'66'-TeCB	20.33	6.99E+07	0.81 Y	1.35	1.27	-6.3%	
PCB-104 22'466'-PeCB	25.29	6.67E+07	0.64 Y	1.43	1.33	-7.2%	
PCB-155 22'44'66'-HxCB	30.23	7.23E+07	1.25 Y	1.26	1.17	-6.8%	
PCB-188 22'34'566'-HpCB	35.10	5.24E+07	1.06 Y	1.27	1.14	-10.2%	
PCB-202 22'33'55'66'-OcCB	39.63	4.28E+07	0.90 Y	1.05	1.00	-5.2%	
PCB-205 233'44'55'6'-OcCB	47.80	3.92E+07	0.90 Y	1.06	1.02	-3.9%	
PCB-208 22'33'455'66'-NoCB	45.26	4.43E+07	0.78 Y	1.12	1.09	-3.1%	
PCB-206 22'33'44'55'6'-NoCB	49.26	3.03E+07	0.78 Y	1.11	1.10	-1.7%	
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				-		-	
				-		-	
				-		-	
				-		-	
				-		-	
				-		-	

PCB QC Summary - Ax2 Detail				Processed: 6-Apr-2014 16:19			
Lab ID:	CS3_140403_PCB_XC			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	03-APR-2014 22:09						
Datafile:	140403X11						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	11.83	1.23E+08	3.19 Y	0.95	-	-	
PCB-2 3-MoCB	13.92	1.23E+08	3.21 Y	1.03	1.15	11.7%	
PCB-3 4-MoCB	14.10	1.22E+08	3.21 Y	1.01	-	-	
PCB-4 22'-DiCB	14.36	7.12E+07	1.58 Y	1.23	-	-	
PCB-10 26-DiCB	14.53	1.17E+08	1.57 Y	1.98	1.88	-5.2%	
PCB-9 25-DiCB	16.32	1.05E+08	1.63 Y	0.95	0.97	2.8%	
PCB-7 24-DiCB	16.49	1.19E+08	1.64 Y	1.05	1.11	5.7%	
PCB-6 23'-DiCB	16.72	1.12E+08	1.65 Y	1.00	1.04	4.3%	
PCB-5 23-DiCB	17.02	1.11E+08	1.64 Y	1.00	1.03	3.0%	
PCB-8 24'-DiCB	17.14	1.14E+08	1.62 Y	1.03	1.06	2.7%	
PCB-14 35-DiCB	18.69	1.33E+08	1.63 Y	1.18	1.23	4.5%	
PCB-11 33'-DiCB	19.46	1.14E+08	1.65 Y	1.01	1.06	4.8%	
PCB-13/12 34'/34-DiCB	19.76	2.28E+08	1.64 Y	0.99	1.06	6.9%	
PCB-15 44'-DiCB	20.04	1.20E+08	1.64 Y	1.02	-	-	
PCB-19 22'6-TrCB	17.43	5.91E+07	1.05 Y	1.15	-	-	
PCB-30/18 246/22'5-TrCB	19.18	1.63E+08	1.04 Y	1.54	1.51	-1.9%	
PCB-17 22'4-TrCB	19.58	6.84E+07	1.04 Y	1.31	1.27	-2.7%	
PCB-27 23'6-TrCB	19.77	9.56E+07	1.05 Y	1.82	1.77	-2.4%	
PCB-24 236-TrCB	19.90	9.28E+07	1.04 Y	1.72	1.72	-0.1%	
PCB-16 22'3-TrCB	20.00	5.05E+07	1.05 Y	1.01	0.94	-6.8%	
PCB-32 24'6-TrCB	20.48	1.01E+08	1.04 Y	1.92	1.88	-2.2%	
PCB-34 23'5'-TrCB	21.62	9.70E+07	1.02 Y	1.14	1.24	9.5%	
PCB-23 235-TrCB	21.77	9.83E+07	1.01 Y	1.16	1.26	9.0%	
PCB-26/29 23'5/245-TrCB	22.06	1.99E+08	1.01 Y	1.17	1.28	9.0%	
PCB-25 23'4-TrCB	22.25	1.02E+08	1.01 Y	1.16	1.30	12.5%	
PCB-31 24'5-TrCB	22.53	1.05E+08	1.01 Y	1.23	1.34	9.3%	
PCB-28/20 244'/233'-TrCB	22.81	1.94E+08	1.01 Y	1.13	1.24	9.5%	
PCB-21/33 234/23'4'-TrCB	23.00	2.01E+08	1.01 Y	1.17	1.29	9.9%	
PCB-22 234'-TrCB	23.37	9.29E+07	1.01 Y	1.08	1.19	10.2%	
PCB-36 33'5-TrCB	24.75	1.05E+08	1.01 Y	1.17	1.34	14.9%	
PCB-39 34'5-TrCB	25.07	1.05E+08	1.01 Y	1.21	1.35	11.4%	
PCB-38 345-TrCB	25.60	9.47E+07	1.02 Y	1.10	1.21	9.8%	
PCB-35 33'4-TrCB	25.99	9.15E+07	1.02 Y	1.04	1.17	12.7%	
PCB-37 344'-TrCB	26.35	9.63E+07	1.01 Y	1.08	-	-	
PCB-54 22'66'-TeCB	20.33	6.99E+07	0.81 Y	1.35	-	-	
PCB-50/53 22'46/22'56'-TeCB	22.31	1.21E+08	0.78 Y	0.88	0.91	3.4%	
PCB-45 22'36'-TeCB	22.89	5.02E+07	0.78 Y	0.77	0.75	-1.9%	
PCB-51 22'46'-TeCB	22.96	6.36E+07	0.79 Y	0.86	0.95	11.0%	
PCB-46 22'36'-TeCB	23.17	4.86E+07	0.79 Y	0.70	0.73	4.3%	
PCB-52 22'55'-TeCB	24.42	5.96E+07	0.79 Y	0.84	0.89	6.0%	
PCB-73 23'5'6'-TeCB	24.55	7.68E+07	0.78 Y	1.11	1.15	3.5%	

Lab ID: - Ax2 Detail				Processed: 6-Apr-2014 16:19		
Lab ID:	CS3_140403_PCB_XC		ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	03-APR-2014 22:09					
Datafile:	140403X11					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	24.65	4.78E+07	0.79 Y	0.71	0.72	0.9%
PCB-69/49 23'46/22'45'-TeCB	24.84	1.45E+08	0.78 Y	1.02	1.09	6.2%
PCB-48 22'45'-TeCB	25.12	5.94E+07	0.78 Y	0.84	0.89	6.2%
PCB-44/47/65 ...-TeCB	25.34	1.91E+08	0.79 Y	0.90	0.96	5.7%
PCB-59/62/75 ...-TeCB	25.62	2.50E+08	0.79 Y	1.17	1.25	7.2%
PCB-42 22'34'-TeCB	25.78	5.43E+07	0.79 Y	0.76	0.82	6.8%
PCB-41 22'34'-TeCB	26.11	4.82E+07	0.78 Y	0.69	0.72	4.0%
PCB-71/40 23'4'6/22'33'-TeCB	26.21	1.23E+08	0.78 Y	0.86	0.92	7.5%
PCB-64 23'46'-TeCB	26.41	8.88E+07	0.78 Y	1.22	1.33	9.0%
PCB-72 23'55'-TeCB	27.12	8.22E+07	0.80 Y	1.21	1.23	2.0%
PCB-68 23'45'-TeCB	27.38	8.78E+07	0.81 Y	1.28	1.32	3.1%
PCB-57 23'35'-TeCB	27.75	7.81E+07	0.79 Y	1.16	1.17	0.7%
PCB-58 23'35'-TeCB	27.95	8.18E+07	0.80 Y	1.18	1.23	4.1%
PCB-67 23'45'-TeCB	28.11	8.46E+07	0.80 Y	1.26	1.27	0.8%
PCB-63 23'45'-TeCB	28.33	8.85E+07	0.79 Y	1.30	1.33	2.2%
PCB-61/70/74/76 ...-TeCB	28.63	3.23E+08	0.80 Y	1.20	1.21	1.0%
PCB-66 23'44'-TeCB	28.90	7.89E+07	0.79 Y	1.10	1.18	7.4%
PCB-55 23'34'-TeCB	29.05	7.67E+07	0.80 Y	1.12	1.15	2.7%
PCB-56 23'34'-TeCB	29.49	7.60E+07	0.79 Y	1.11	1.14	2.6%
PCB-60 23'44'-TeCB	29.68	7.71E+07	0.80 Y	1.14	1.16	1.8%
PCB-80 33'55'-TeCB	30.00	9.06E+07	0.79 Y	1.31	1.36	3.5%
PCB-79 33'45'-TeCB	31.33	9.11E+07	0.80 Y	1.31	1.37	4.5%
PCB-78 33'45'-TeCB	31.82	7.40E+07	0.80 Y	1.06	1.11	4.6%
PCB-104 22'466'-PeCB	25.29	6.67E+07	0.64 Y	1.43	-	-
PCB-96 22'366'-PeCB	25.61	5.78E+07	0.64 Y	1.23	1.15	-6.1%
PCB-103 22'45'6'-PeCB	27.29	5.27E+07	0.62 Y	0.93	0.92	-0.7%
PCB-94 22'356'-PeCB	27.48	4.44E+07	0.61 Y	0.80	0.78	-2.8%
PCB-95 22'35'6'-PeCB	27.87	4.82E+07	0.61 Y	0.87	0.84	-2.6%
PCB-100/93 22'44'6/22'356'-PeC	28.08	9.66E+07	0.61 Y	0.86	0.85	-2.1%
PCB-102 22'456'-PeCB	28.18	4.78E+07	0.61 Y	0.97	0.84	-13.6%
PCB-98 22'34'6'-PeCB	28.25	4.86E+07	0.62 Y	0.76	0.85	12.4%
PCB-88 22'346'-PeCB	28.56	4.65E+07	0.61 Y	0.80	0.81	2.0%
PCB-91 22'34'6'-PeCB	28.62	5.00E+07	0.62 Y	0.94	0.88	-7.3%
PCB-84 22'33'6'-PeCB	28.82	4.02E+07	0.61 Y	0.72	0.70	-1.7%
PCB-89 22'346'-PeCB	29.23	4.27E+07	0.62 Y	0.76	0.75	-2.0%
PCB-121 23'45'6'-PeCB	29.57	6.77E+07	0.62 Y	1.20	1.19	-1.2%
PCB-92 22'355'-PeCB	29.89	4.59E+07	0.62 Y	0.82	0.80	-2.0%
PCB-113/90/101 ...-PeCB	30.38	1.64E+08	0.62 Y	0.99	0.96	-3.1%
PCB-83 22'33'5'-PeCB	30.81	3.70E+07	0.61 Y	0.71	0.65	-9.3%

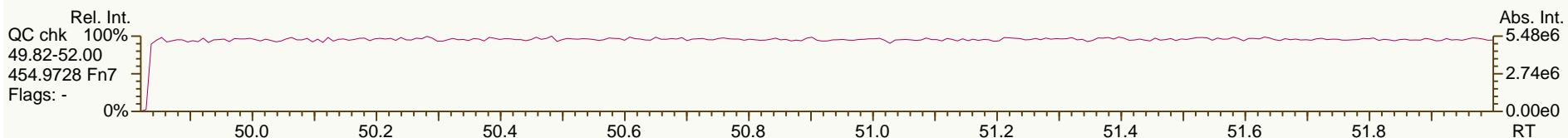
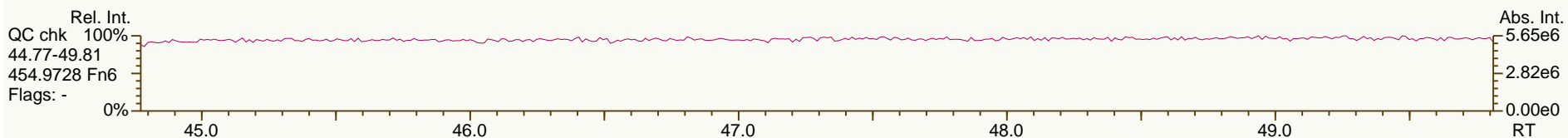
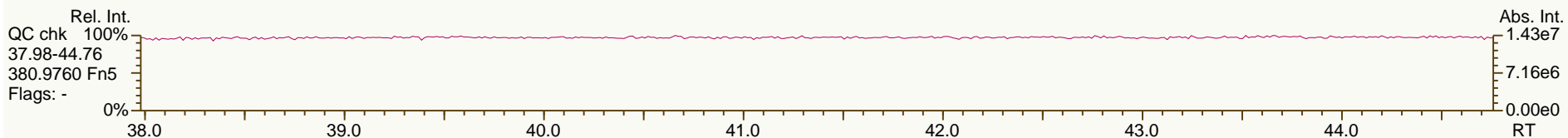
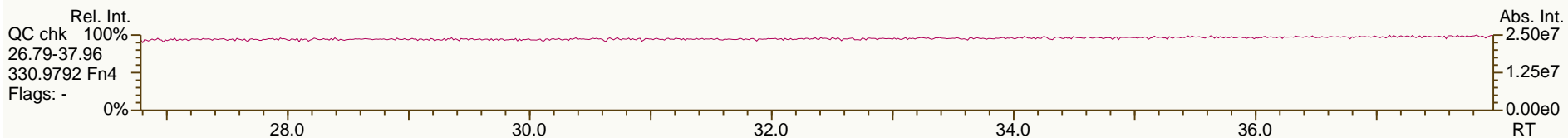
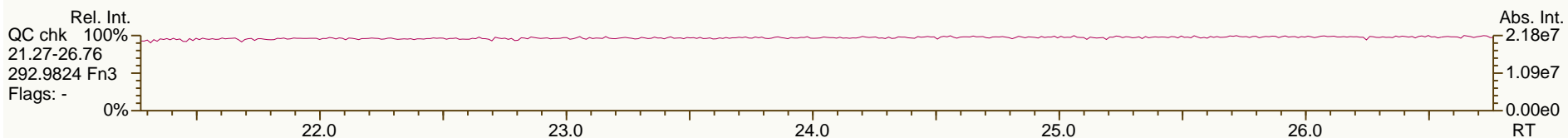
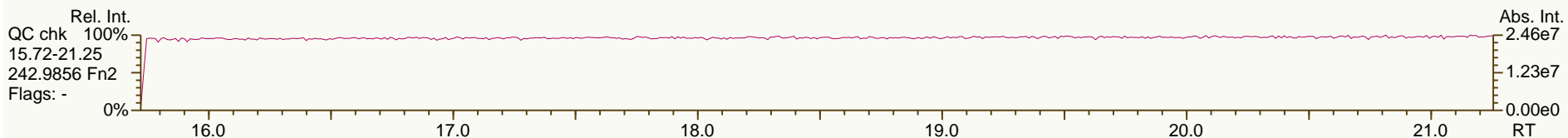
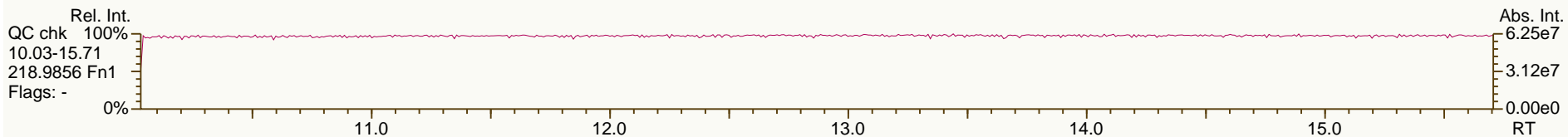
Lab ID: - Ax2 Detail				Processed: 6-Apr-2014 16:19			
Lab ID:	CS3_140403_PCB_XC			ICAL: MM7_PCB_10292013_20DEC2013			
Acquired:	03-APR-2014 22:09						
Datafile:	140403X11						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	30.90	5.44E+07	0.61 Y	0.92	0.95		3.4%
PCB-112 233'56-PeCB	31.01	6.42E+07	0.62 Y	1.17	1.12		-3.7%
PCB-108/119/86/97/125...-PeCB	31.35	3.31E+08	0.62 Y	0.98	0.97		-1.4%
PCB-117 234'56-PeCB	31.89	6.24E+07	0.61 Y	1.14	1.09		-4.0%
PCB-116/85 23456/22'344'-PeCB	31.98	1.09E+08	0.62 Y	0.94	0.96		1.8%
PCB-110 233'4'6-PeCB	32.10	6.27E+07	0.62 Y	1.12	1.10		-1.8%
PCB-115 2344'6-PeCB	32.18	6.37E+07	0.63 Y	1.16	1.12		-3.7%
PCB-82 22'33'4-PeCB	32.38	3.94E+07	0.61 Y	0.70	0.69		-1.0%
PCB-111 233'55'-PeCB	32.69	6.88E+07	0.62 Y	1.22	1.21		-1.3%
PCB-120 23'455'-PeCB	33.09	6.86E+07	0.61 Y	1.21	1.20		-0.9%
PCB-107/124 ...-PeCB	34.05	1.24E+08	0.61 Y	1.10	1.09		-1.1%
PCB-109 233'46-PeCB	34.26	6.77E+07	0.61 Y	1.25	1.19		-5.4%
PCB-106 233'45-PeCB	34.48	6.55E+07	0.62 Y	1.11	1.15		3.7%
PCB-122 233'4'5'-PeCB	34.94	5.93E+07	0.62 Y	0.99	1.00		0.1%
PCB-127 33'455'-PeCB	36.88	6.48E+07	0.62 Y	1.10	1.09		-0.3%
PCB-155 22'44'66'-HxCB	30.23	7.23E+07	1.25 Y	1.26	-		-
PCB-152 22'3566'-HxCB	30.39	6.63E+07	1.27 Y	1.17	1.08		-8.2%
PCB-150 22'34'66'-HxCB	30.53	6.79E+07	1.27 Y	1.18	1.10		-6.2%
PCB-136 22'33'66'-HxCB	30.84	6.18E+07	1.27 Y	1.07	1.00		-5.9%
PCB-145 22'3466'-HxCB	31.11	6.38E+07	1.26 Y	1.11	1.04		-7.0%
PCB-148 22'34'56'-HxCB	32.38	4.74E+07	1.26 Y	1.18	1.08		-9.0%
PCB-151/135 ...-HxCB	32.90	9.20E+07	1.26 Y	1.14	1.04		-8.4%
PCB-154 22'44'56'-HxCB	33.11	5.37E+07	1.26 Y	1.34	1.22		-9.2%
PCB-144 22'345'6-HxCB	33.37	4.81E+07	1.26 Y	1.18	1.09		-7.8%
PCB-147/149 ...-HxCB	33.67	9.50E+07	1.27 Y	1.18	1.08		-8.3%
PCB-134 22'33'56-HxCB	33.85	3.61E+07	1.26 Y	0.92	0.82		-11.3%
PCB-143 22'3456'-HxCB	33.93	4.65E+07	1.26 Y	1.13	1.06		-6.4%
PCB-139/140 ...-HxCB	34.19	9.77E+07	1.26 Y	1.21	1.11		-8.1%
PCB-131 22'33'46-HxCB	34.37	4.05E+07	1.26 Y	1.03	0.92		-10.3%
PCB-142 22'3456-HxCB	34.51	4.06E+07	1.27 Y	0.99	0.92		-6.9%
PCB-132 22'33'46'-HxCB	34.75	4.23E+07	1.27 Y	1.03	0.96		-6.9%
PCB-133 22'33'55'-HxCB	35.15	4.48E+07	1.27 Y	1.13	1.02		-10.1%
PCB-165 233'55'6-HxCB	35.49	5.86E+07	1.27 Y	1.41	1.33		-5.6%
PCB-146 22'34'55'-HxCB	35.70	4.95E+07	1.26 Y	1.20	1.12		-6.4%
PCB-161 233'45'6-HxCB	35.82	6.61E+07	1.27 Y	1.52	1.50		-1.5%
PCB-153/168 ...-HxCB	36.25	1.22E+08	1.26 Y	1.46	1.38		-5.2%
PCB-141 22'3455'-HxCB	36.39	4.61E+07	1.27 Y	1.09	1.05		-3.9%
PCB-130 22'33'45'-HxCB	36.74	4.04E+07	1.26 Y	0.97	0.92		-5.6%
PCB-137 22'344'5-HxCB	36.94	5.29E+07	1.27 Y	1.16	1.20		3.2%
PCB-164 233'4'5'6-HxCB	37.02	5.98E+07	1.26 Y	1.50	1.36		-9.3%
PCB-163/138/129 ...-HxCB	37.31	1.47E+08	1.25 Y	1.19	1.11		-6.4%

Lab ID: - Ax2 Detail				Processed: 6-Apr-2014 16:19		
Lab ID:	CS3_140403_PCB_XC	ICAL: MM7_PCB_10292013_20DEC2013				
Acquired:	03-APR-2014 22:09					
Datafile:	140403X11					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	37.44	6.13E+07	1.25 Y	1.52	1.39	-8.1%
PCB-158 233'44'6-HxCB	37.63	6.75E+07	1.26 Y	1.66	1.53	-7.8%
PCB-128/166 ...-HxCB	38.36	9.43E+07	1.22 Y	0.90	0.87	-3.0%
PCB-159 233'455'-HxCB	39.17	5.73E+07	1.21 Y	1.11	1.06	-5.0%
PCB-162 233'4'55'-HxCB	39.41	5.73E+07	1.22 Y	1.07	1.06	-1.1%
PCB-188 22'34'566'-HpCB	35.10	5.24E+07	1.06 Y	1.27	-	-
PCB-179 22'33'566'-HpCB	35.39	4.92E+07	1.07 Y	1.16	1.07	-7.8%
PCB-184 22'344'66'-HpCB	35.84	4.84E+07	1.06 Y	1.13	1.05	-6.5%
PCB-176 22'33'466'-HpCB	36.14	5.28E+07	1.08 Y	1.23	1.15	-6.8%
PCB-186 22'34566'-HpCB	36.54	4.98E+07	1.06 Y	1.13	1.08	-3.7%
PCB-178 22'33'55'6-HpCB	37.66	3.51E+07	1.07 Y	0.84	0.76	-9.3%
PCB-175 22'33'45'6-HpCB	38.21	4.28E+07	1.06 Y	1.07	1.06	-1.0%
PCB-187 22'34'55'6-HpCB	38.43	4.53E+07	1.04 Y	1.14	1.12	-1.4%
PCB-182 22'344'56'-HpCB	38.61	4.67E+07	1.06 Y	1.18	1.16	-1.5%
PCB-183 22'344'5'6-HpCB	38.96	4.99E+07	1.05 Y	1.20	1.24	2.7%
PCB-185 22'3455'6-HpCB	39.05	4.04E+07	1.05 Y	1.06	1.00	-5.5%
PCB-174 22'33'456'-HpCB	39.15	3.85E+07	1.05 Y	0.99	0.96	-3.4%
PCB-177 22'33'45'6'-HpCB	39.53	3.70E+07	1.04 Y	0.95	0.92	-3.4%
PCB-181 22'344'56'-HpCB	39.87	4.34E+07	1.05 Y	1.09	1.08	-1.2%
PCB-171/173 ...-HpCB	40.06	7.57E+07	1.05 Y	0.95	0.94	-1.0%
PCB-172 22'33'455'-HpCB	41.41	3.91E+07	1.05 Y	0.99	0.97	-1.8%
PCB-192 233'455'6-HpCB	41.65	5.17E+07	1.06 Y	1.29	1.28	-0.4%
PCB-180/193 ...-HpCB	41.93	9.91E+07	1.05 Y	1.26	1.23	-2.5%
PCB-191 233'44'5'6-HpCB	42.26	5.54E+07	1.06 Y	1.40	1.37	-1.5%
PCB-170 22'33'44'5-HpCB	43.03	3.77E+07	1.06 Y	1.14	1.11	-2.6%
PCB-190 233'44'56-HpCB	43.48	5.38E+07	1.04 Y	1.66	1.58	-4.9%
PCB-202 22'33'55'66'-OcCB	39.63	4.28E+07	0.90 Y	1.05	-	-
PCB-201 22'33'45'66'-OcCB	40.42	4.78E+07	0.91 Y	1.22	1.12	-8.7%
PCB-204 22'344'566'-OcCB	40.99	4.55E+07	0.92 Y	1.12	1.06	-4.9%
PCB-197 22'33'44'66'-OcCB	41.18	4.98E+07	0.91 Y	1.19	1.16	-2.3%
PCB-200 22'33'4566'-OcCB	41.28	4.40E+07	0.92 Y	1.11	1.03	-7.3%
PCB-198/199 ...-OcCB	43.59	6.29E+07	0.92 Y	0.81	0.73	-9.3%
PCB-196 22'33'44'56'-OcCB	44.17	3.33E+07	0.90 Y	0.83	0.78	-6.8%
PCB-203 22'344'55'6-OcCB	44.34	3.42E+07	0.90 Y	0.87	0.80	-8.6%
PCB-195 22'33'44'56-OcCB	45.46	2.77E+07	0.90 Y	0.77	0.72	-6.0%
PCB-194 22'33'44'55'-OcCB	47.40	3.03E+07	0.90 Y	0.84	0.79	-6.8%
PCB-205 233'44'55'6-OcCB	47.80	3.92E+07	0.90 Y	1.06	-	-
PCB-208 22'33'455'66'-NoCB	45.26	4.43E+07	0.78 Y	1.12	-	-
PCB-207 22'33'44'566'-NoCB	46.04	4.62E+07	0.78 Y	1.19	1.13	-4.7%
PCB-206 22'33'44'55'6-NoCB	49.26	3.03E+07	0.78 Y	1.11	-	-

SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

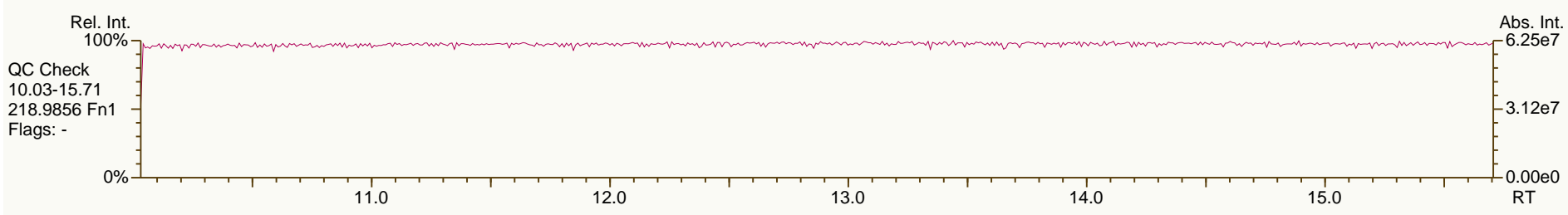
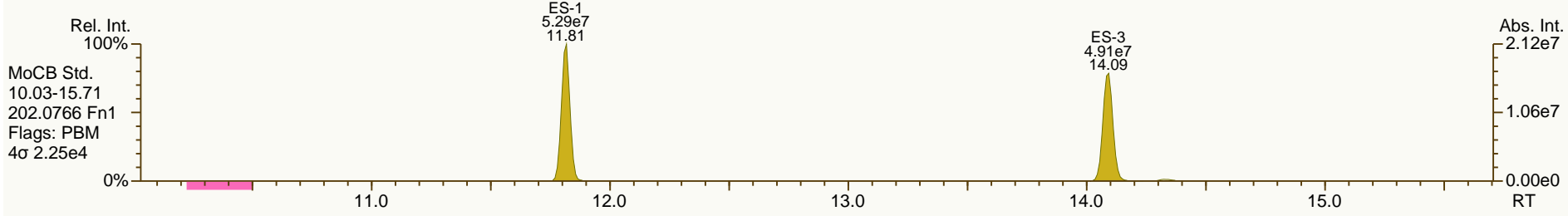
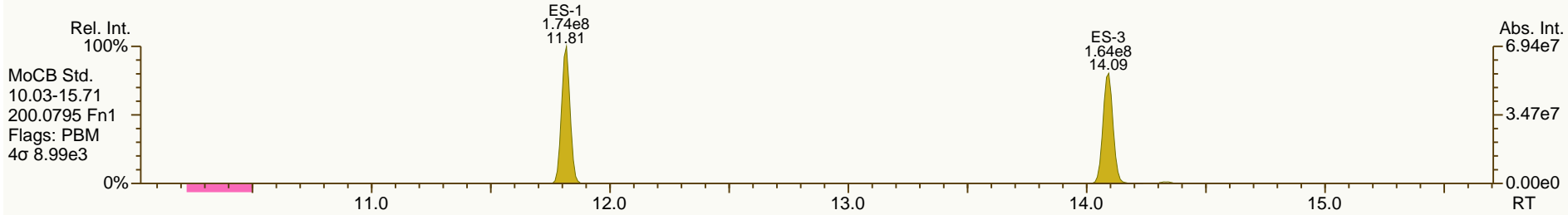
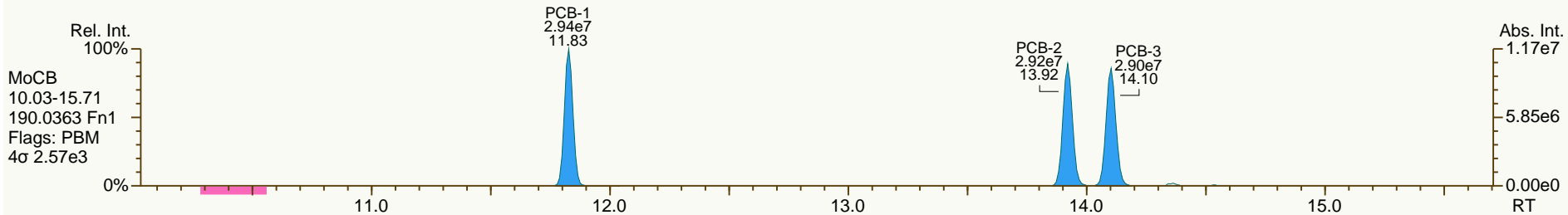
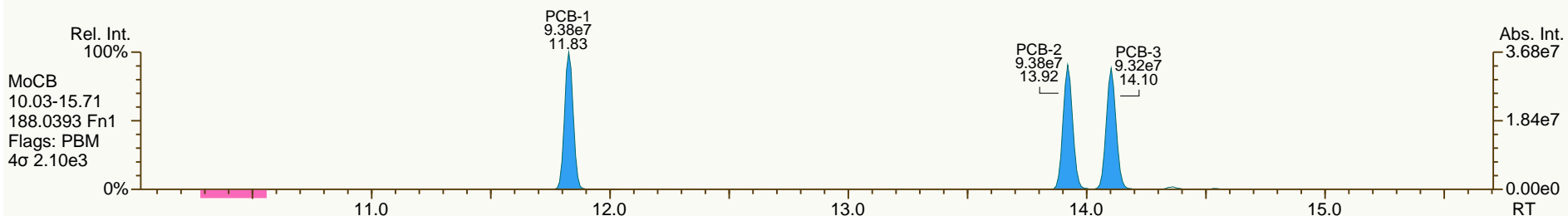
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

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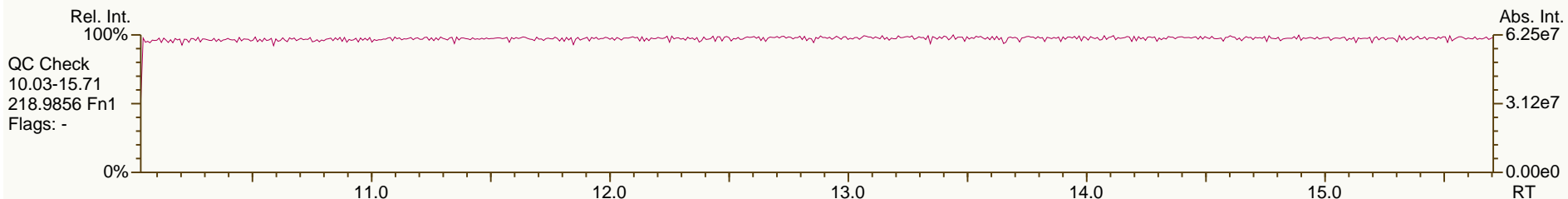
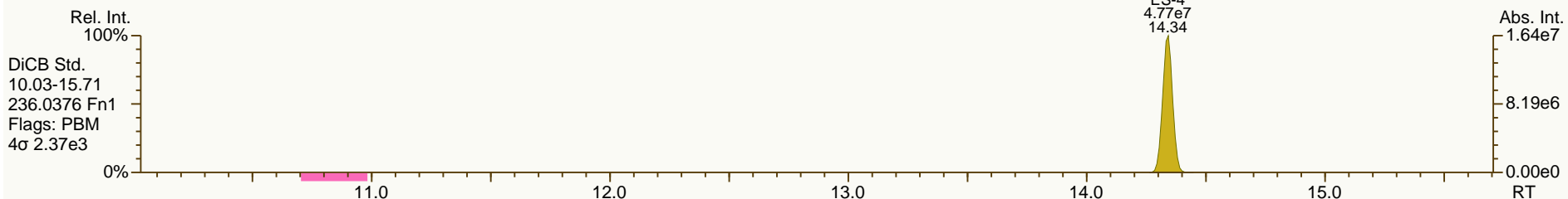
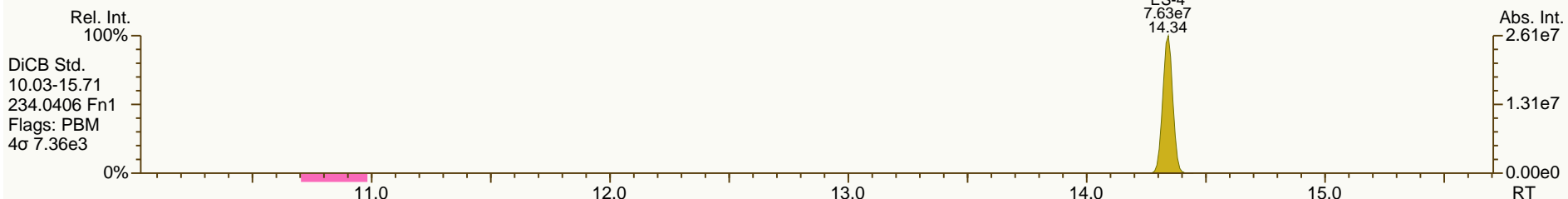
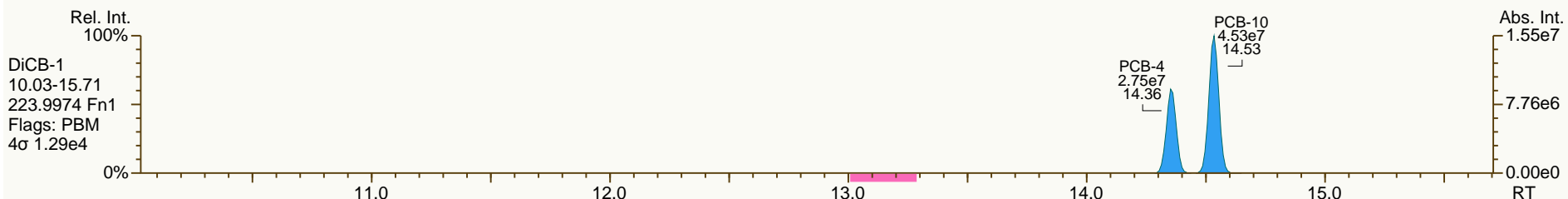
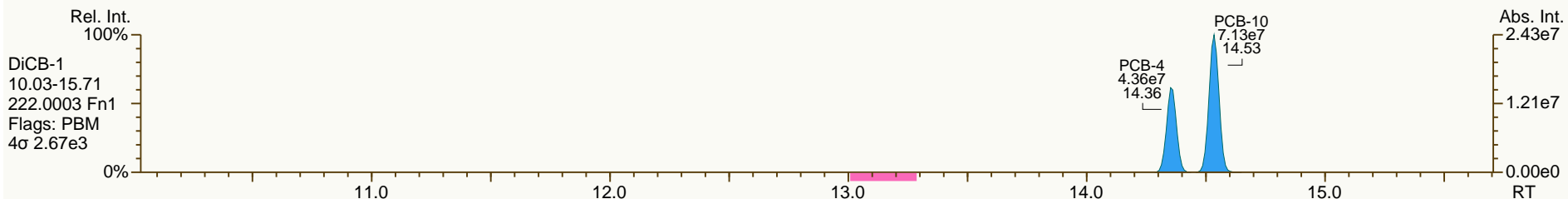
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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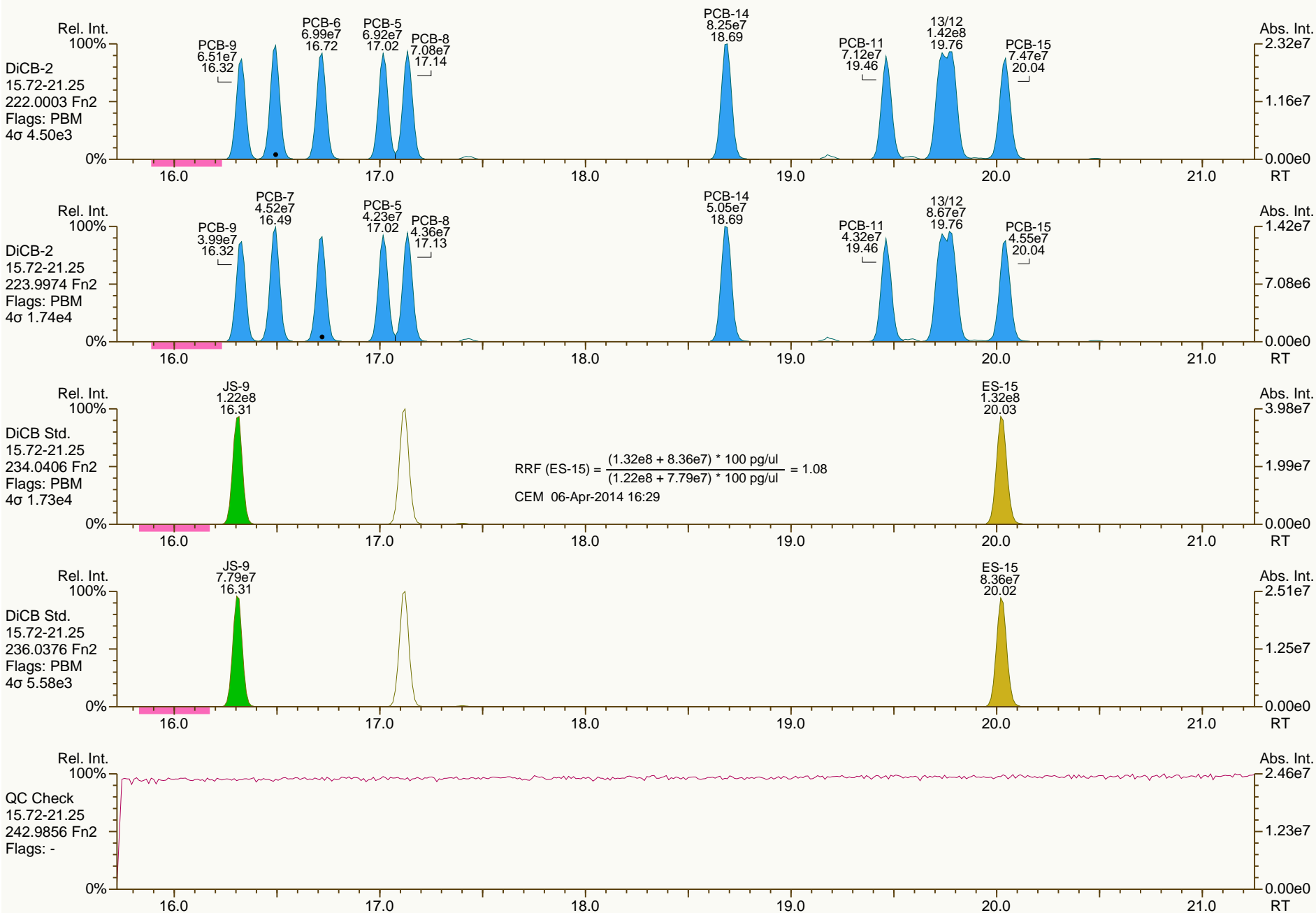




SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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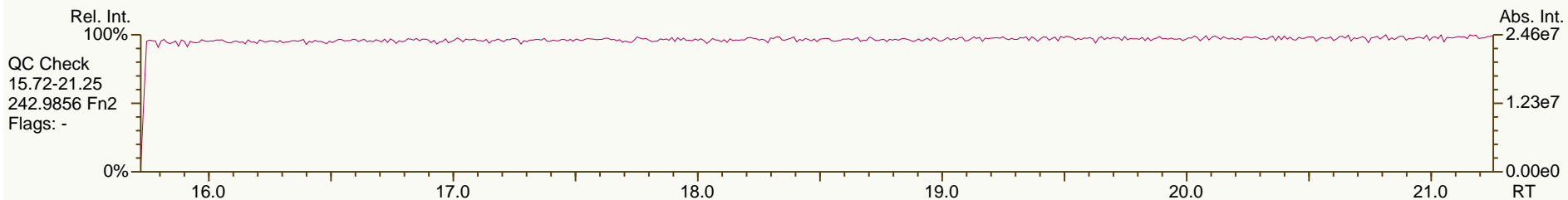
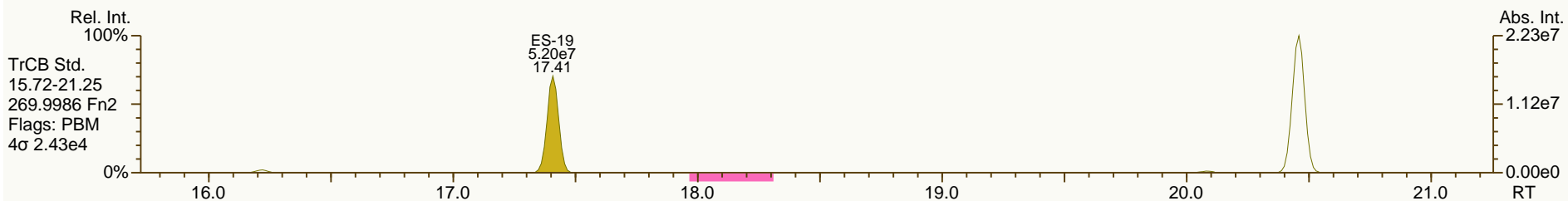
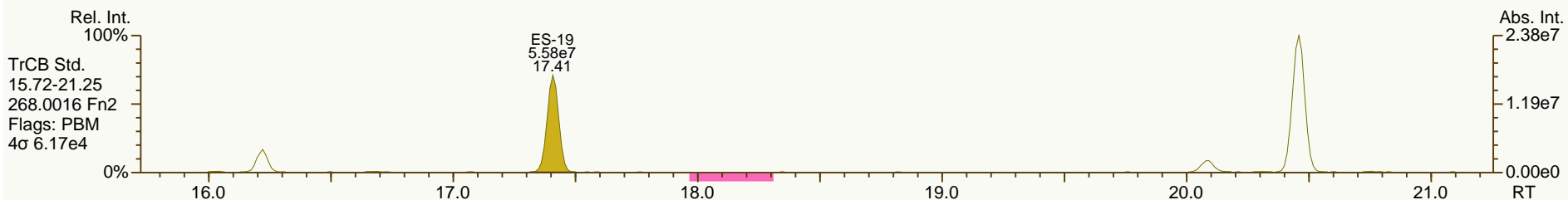
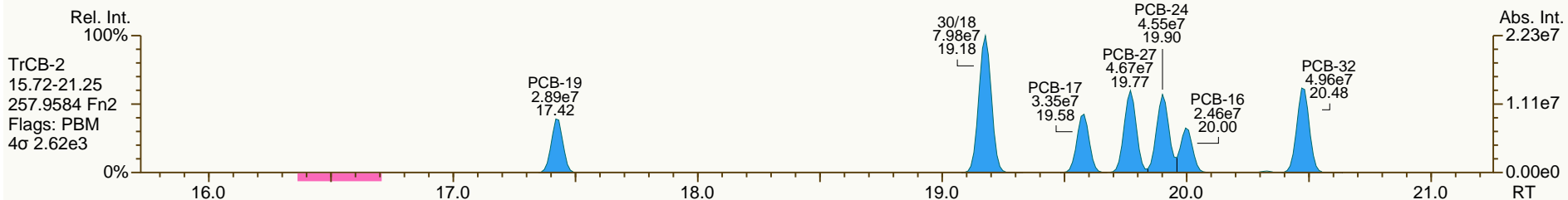
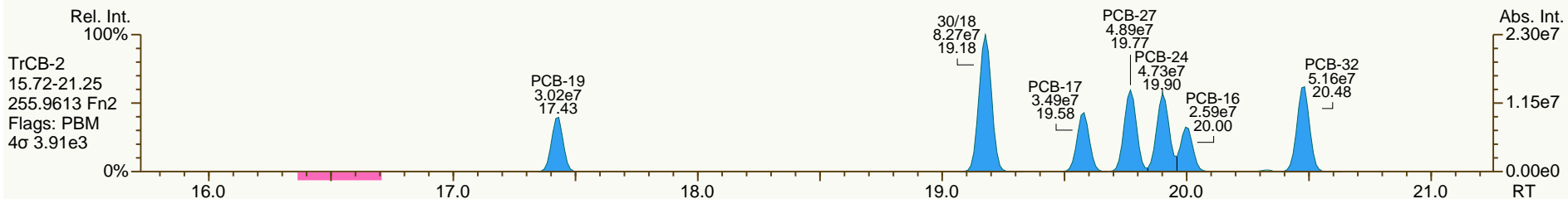
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

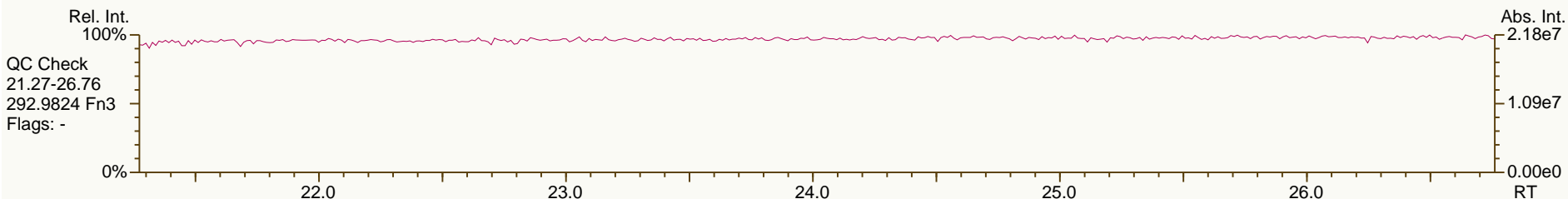
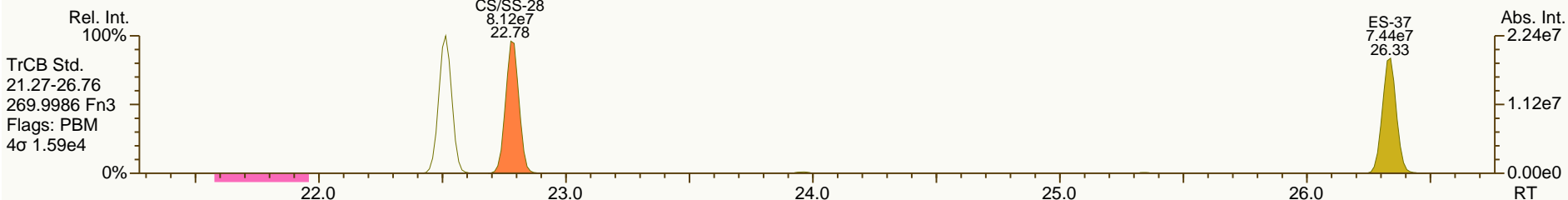
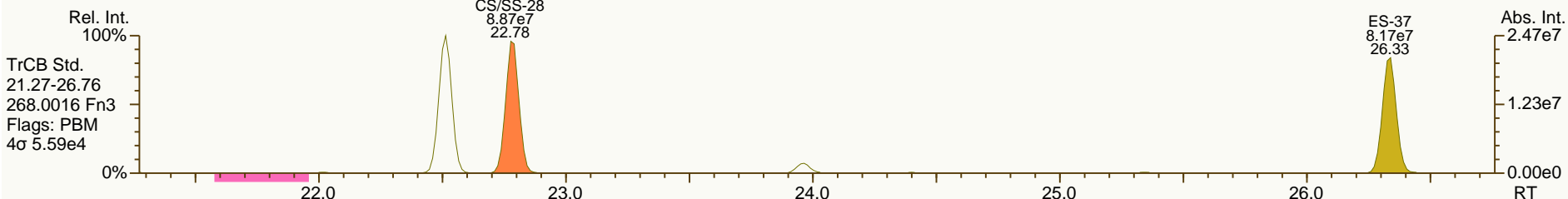
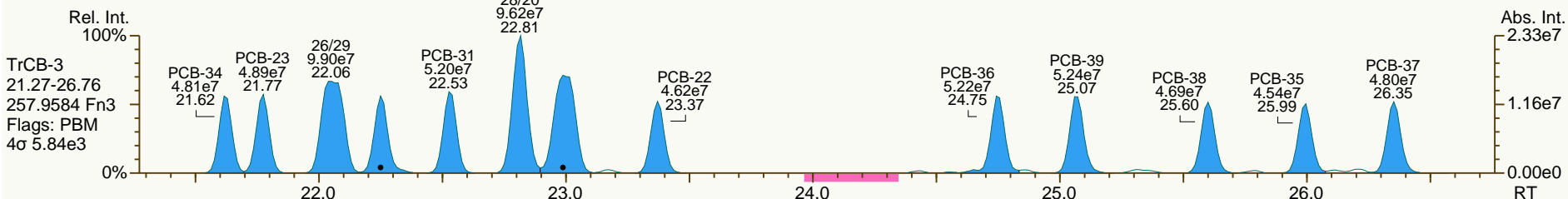
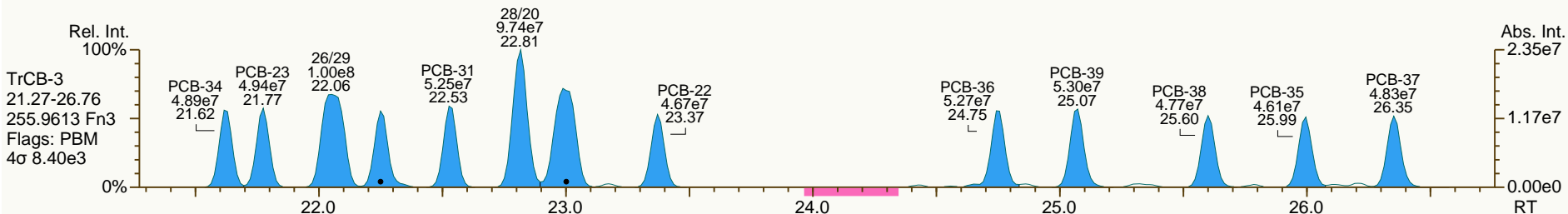
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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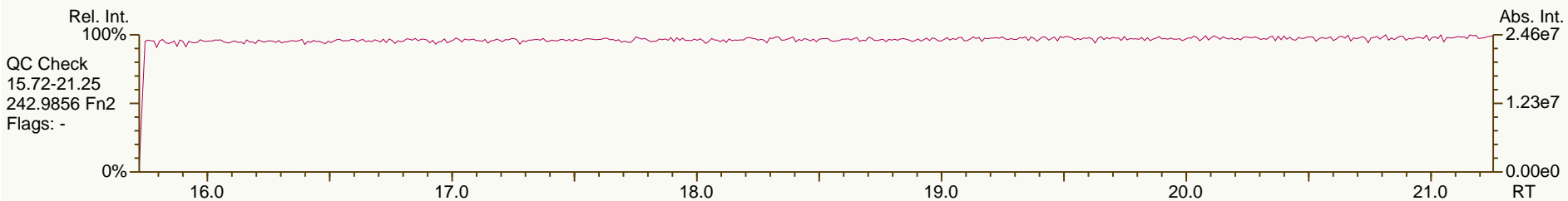
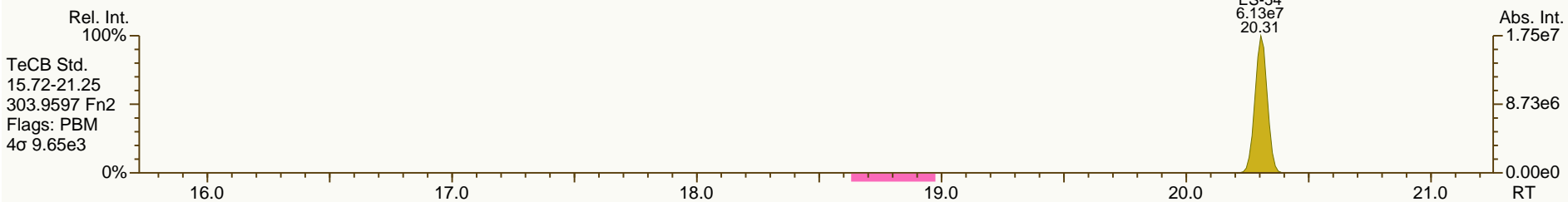
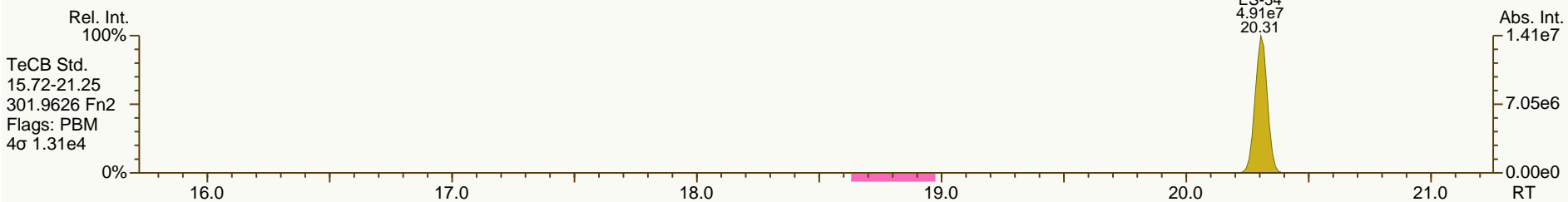
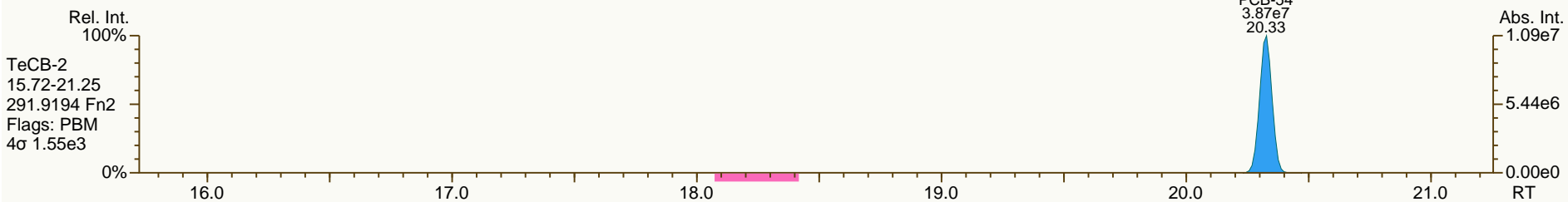
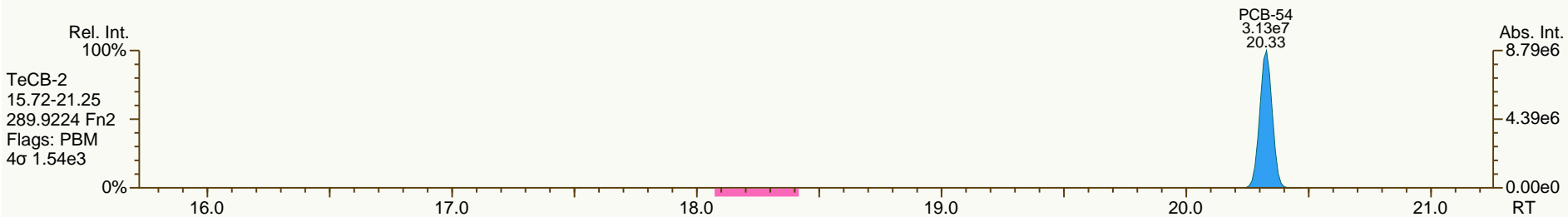
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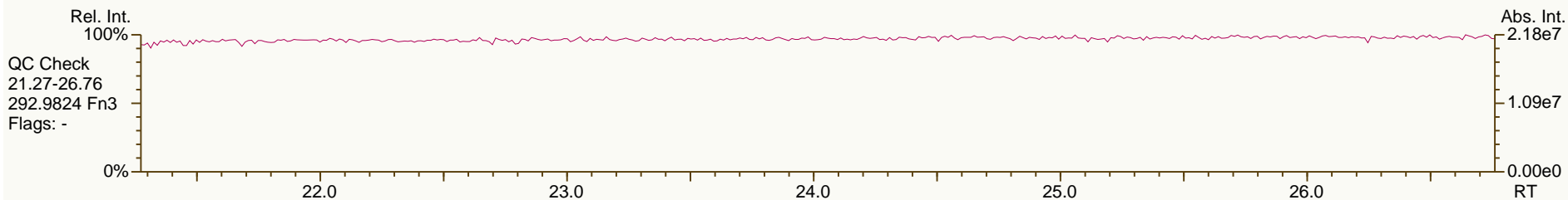
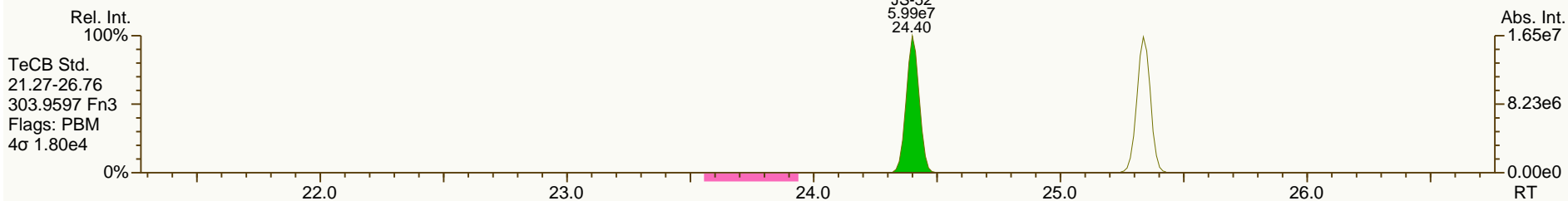
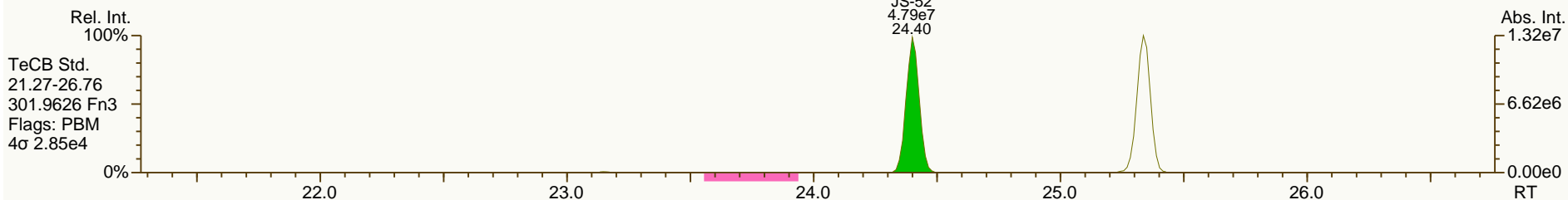
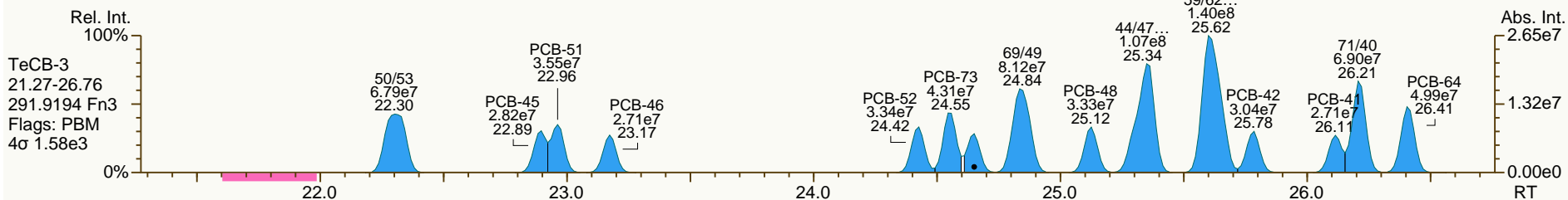
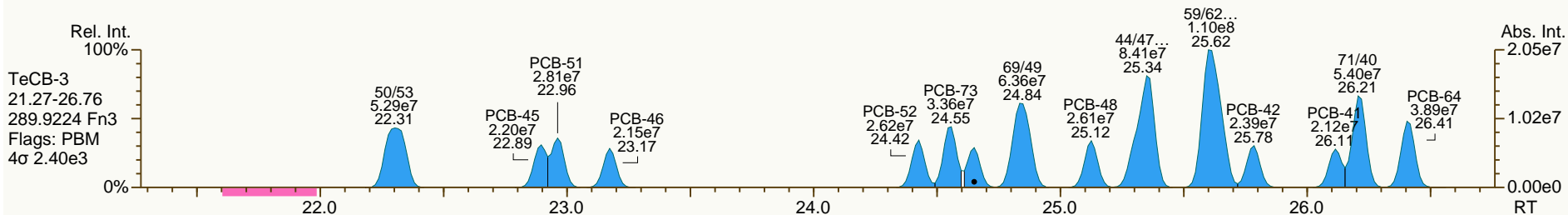
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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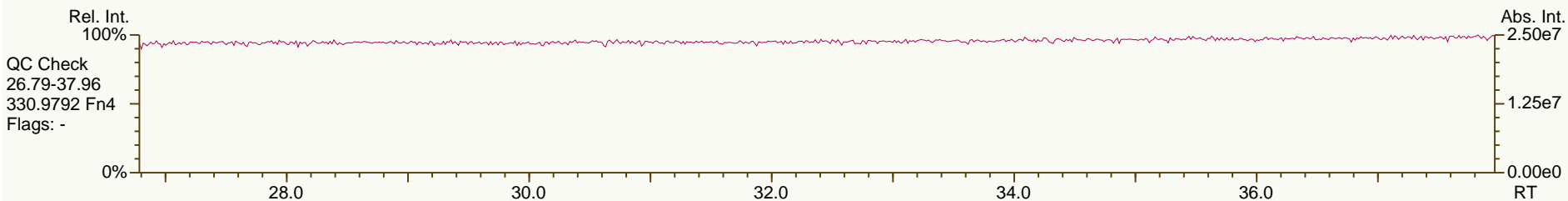
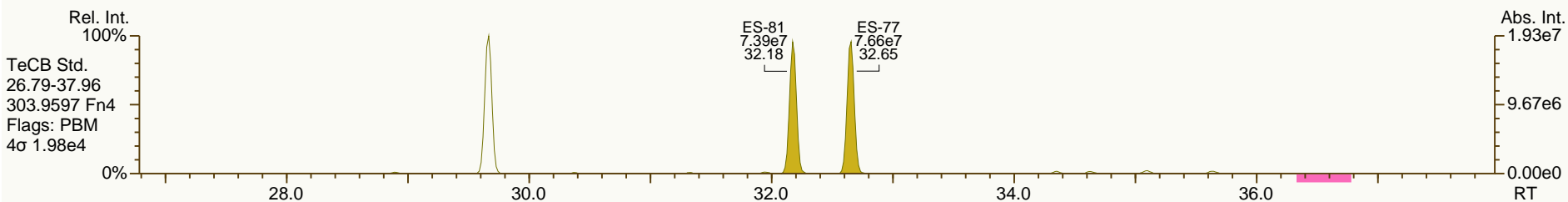
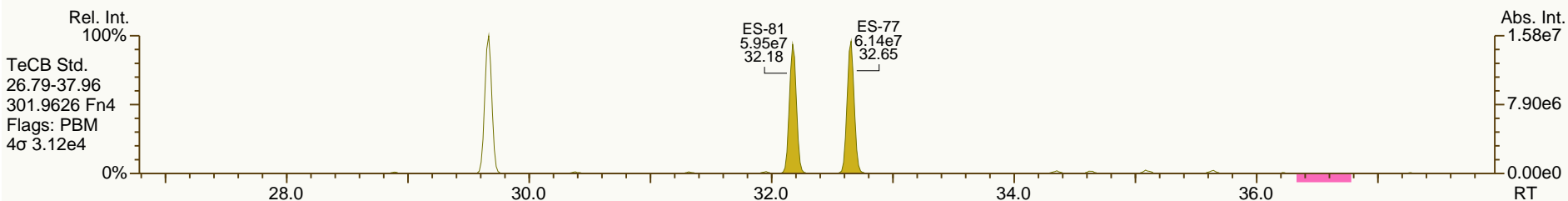
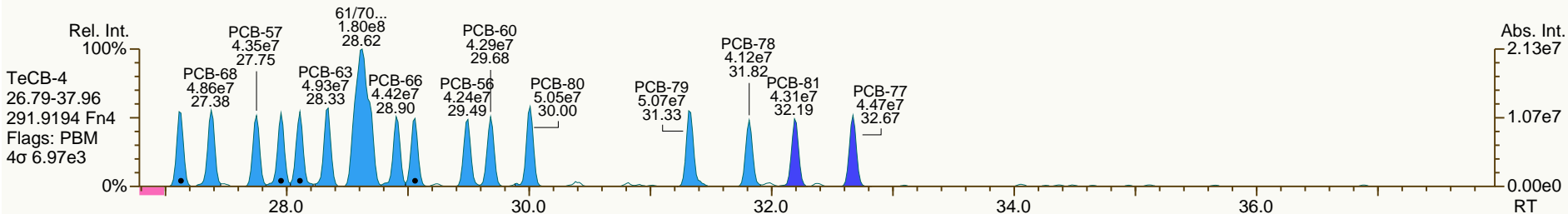
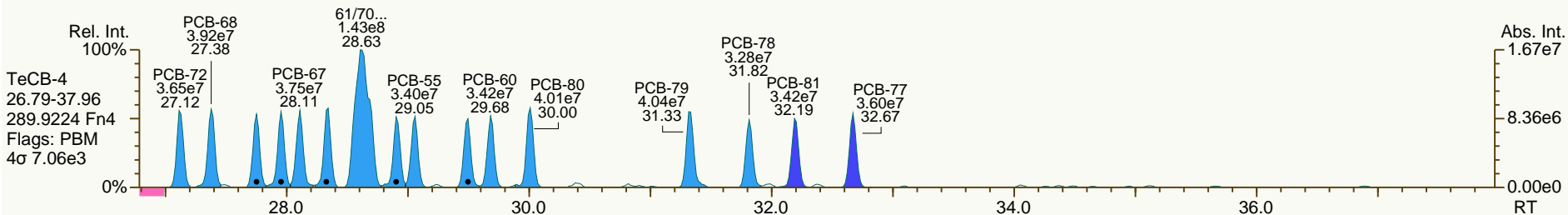
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SGS ID: CS3\_140403\_PCB\_XC  
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Sample ID: SIL 13-79-3  
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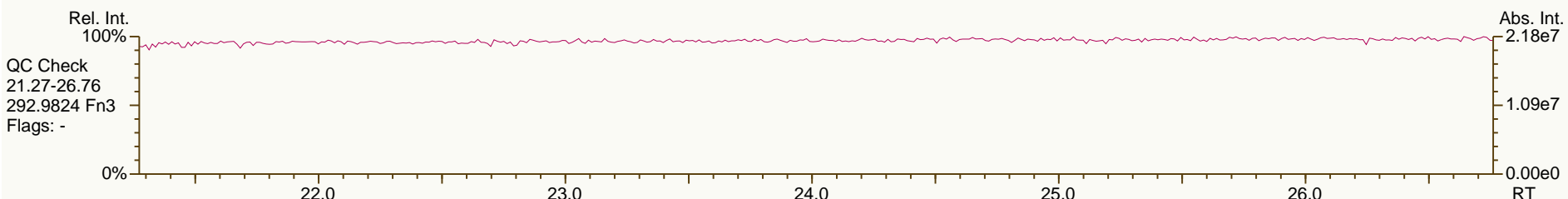
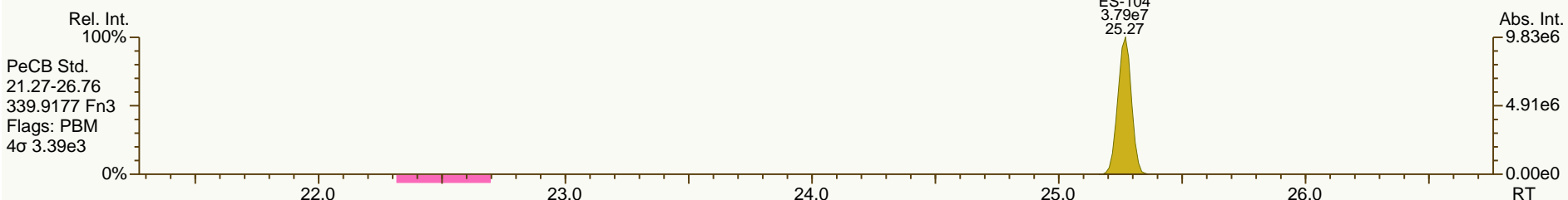
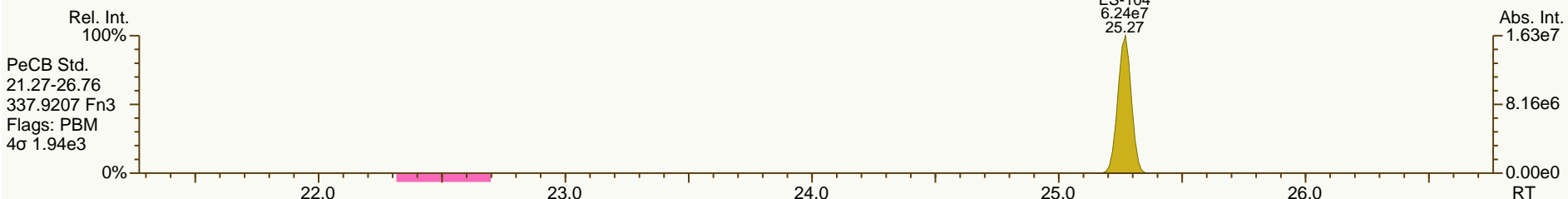
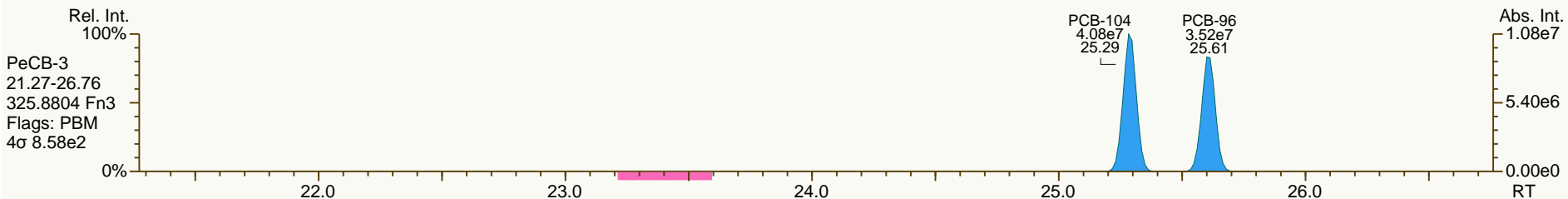
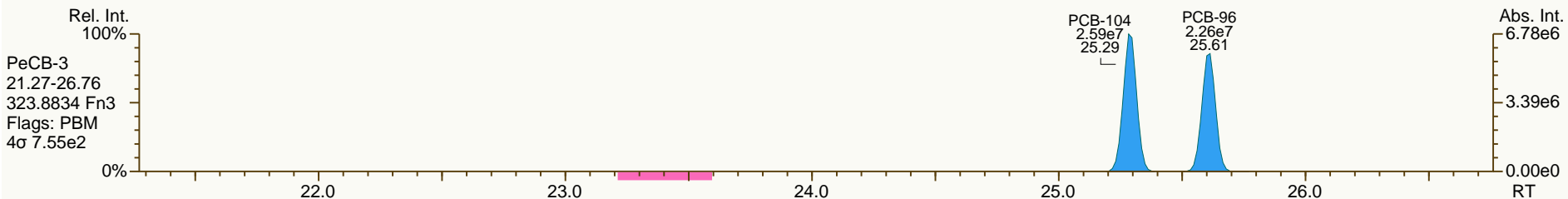
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SGS ID: CS3\_140403\_PCB\_XC  
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Sample ID: SIL 13-79-3  
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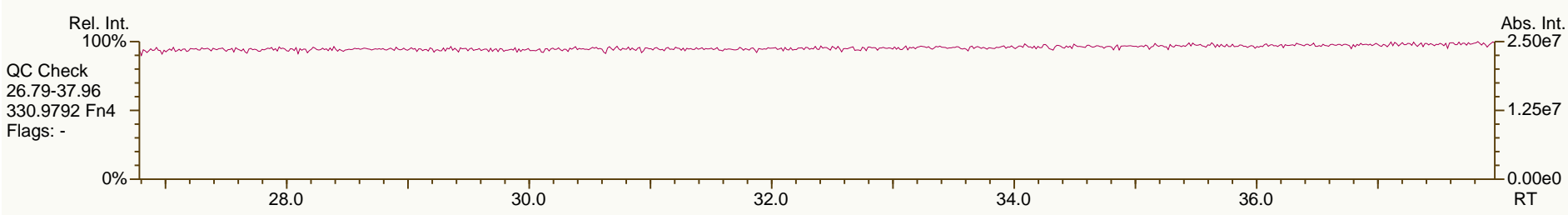
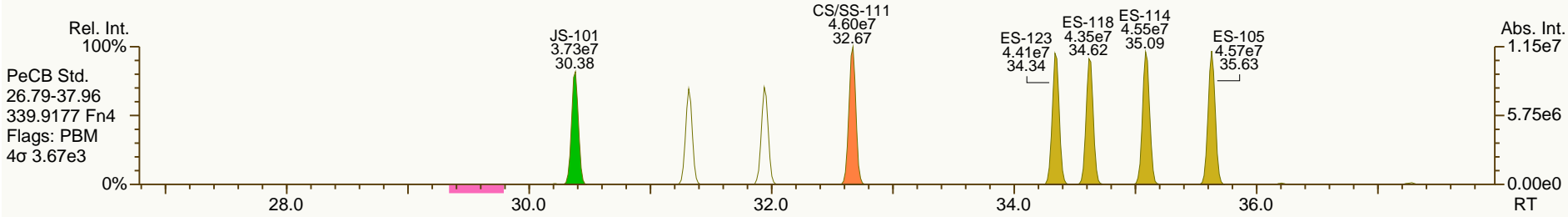
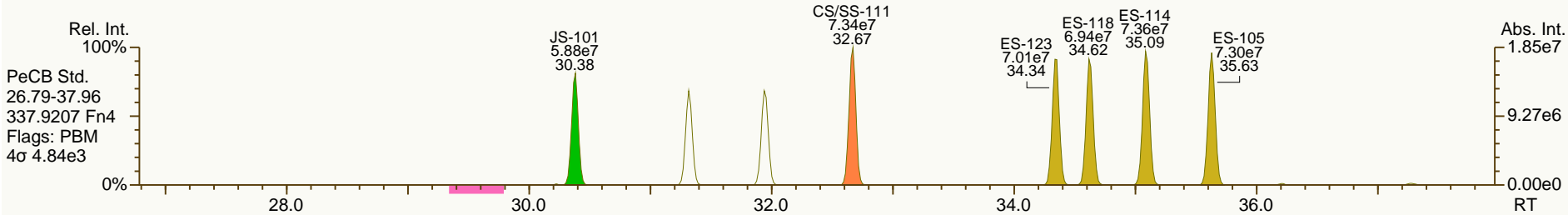
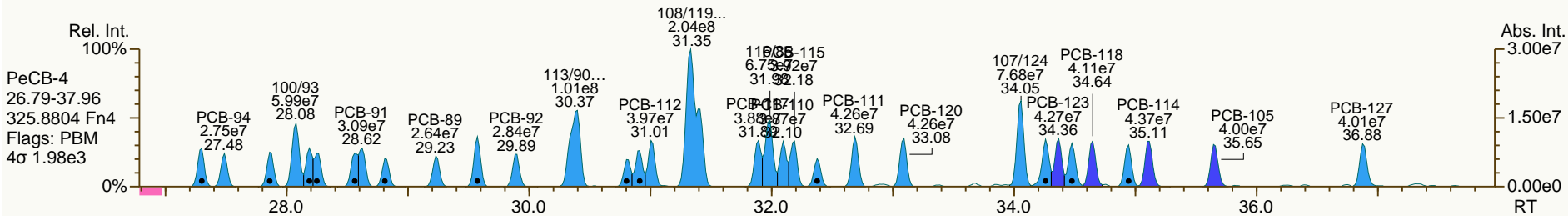
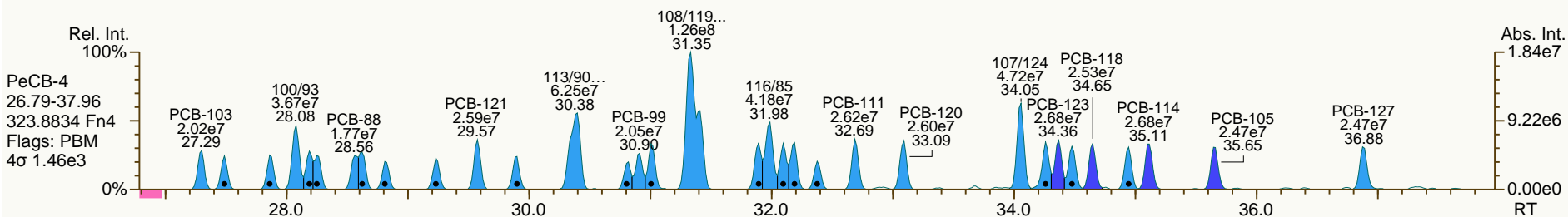
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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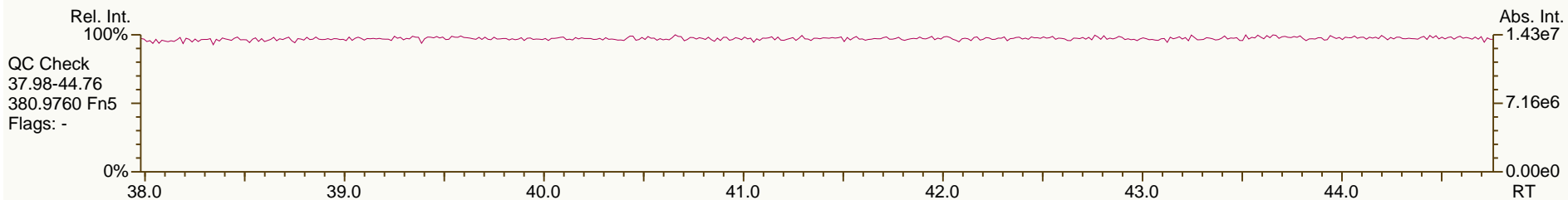
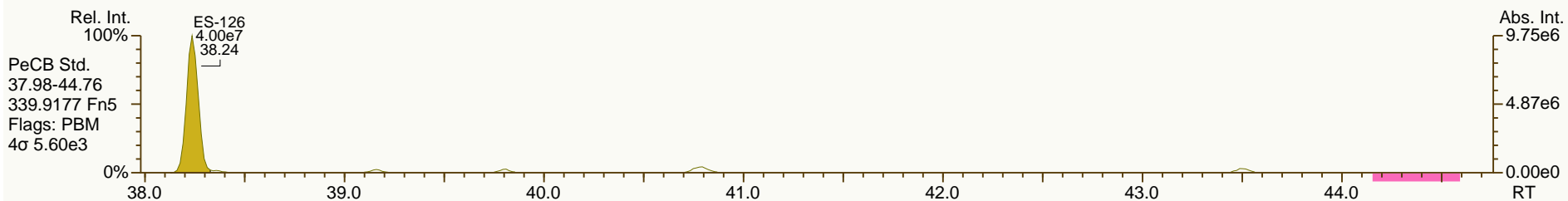
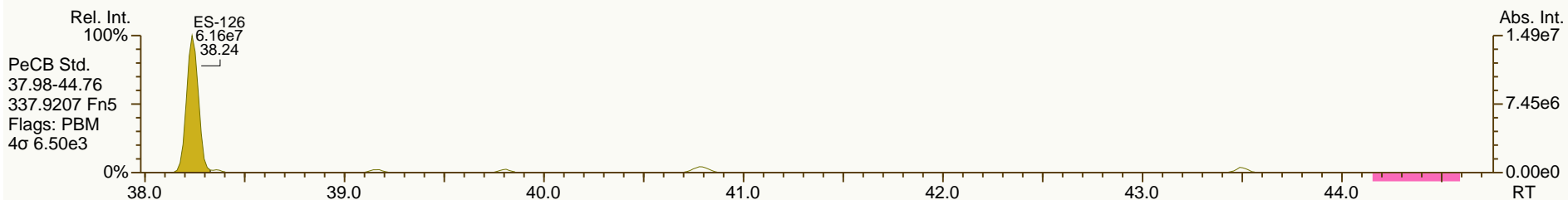
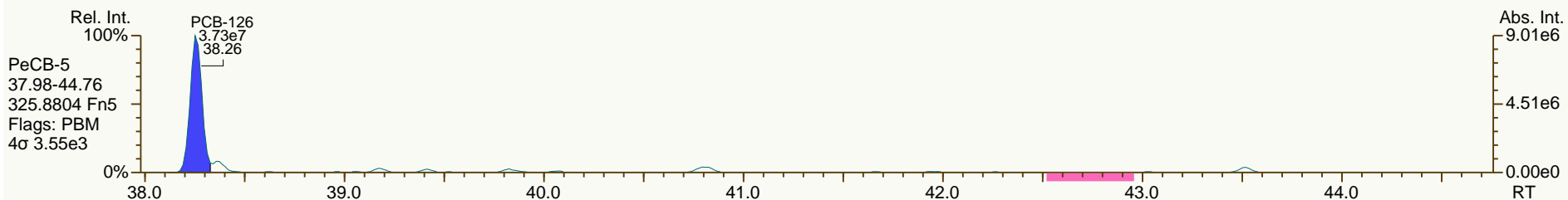
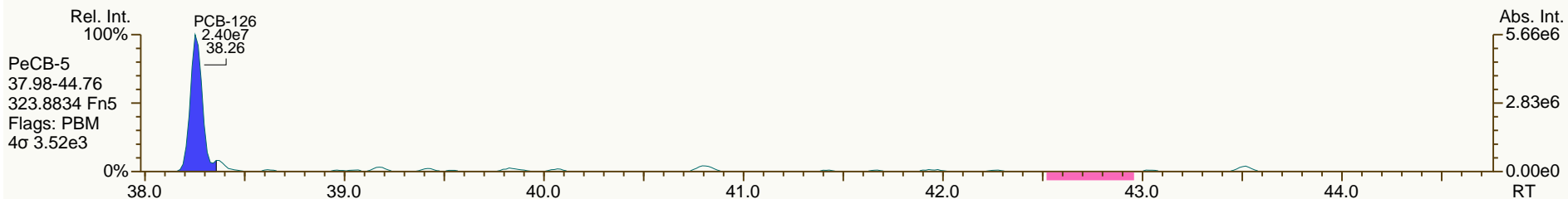




SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

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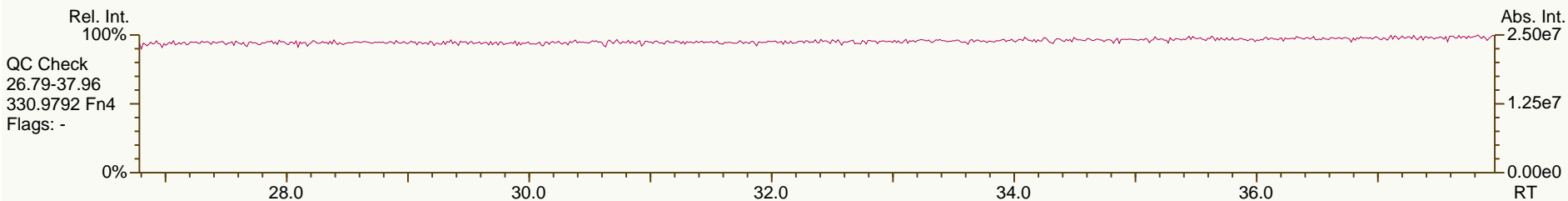
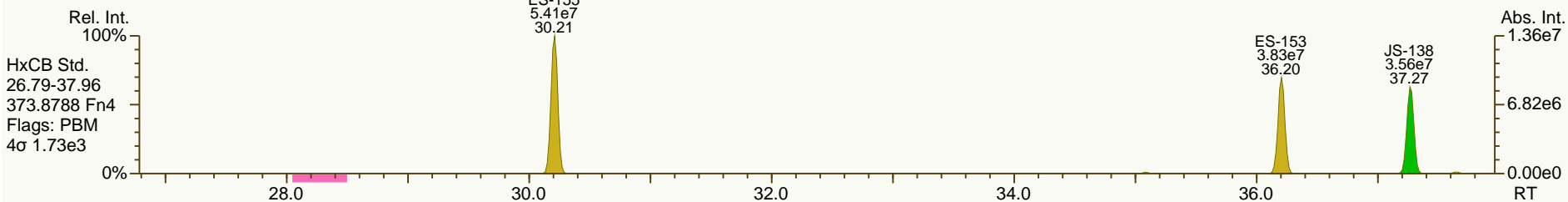
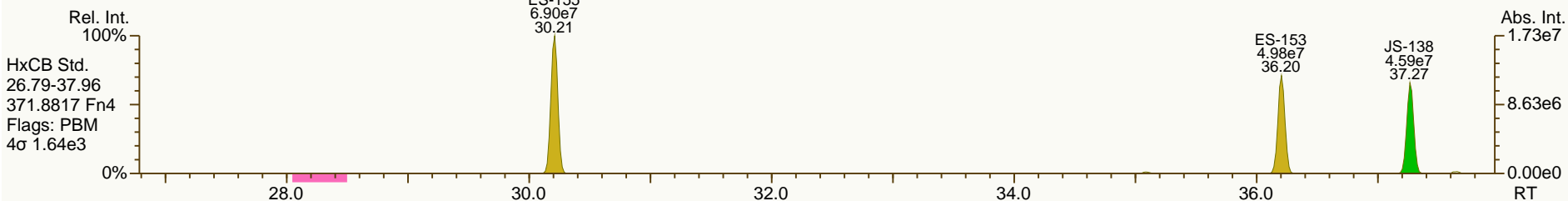
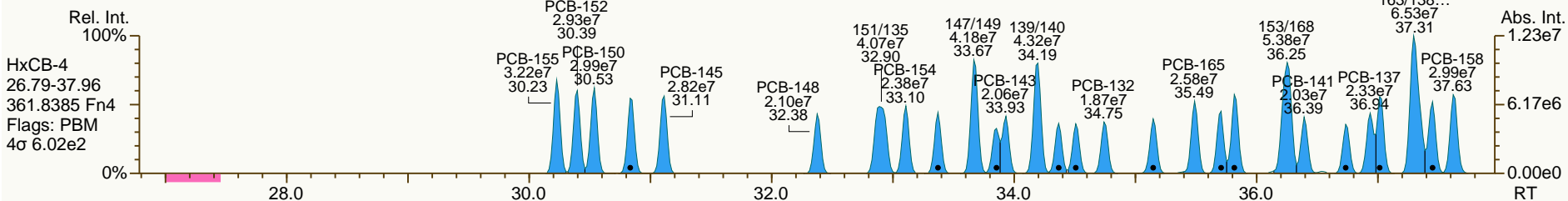
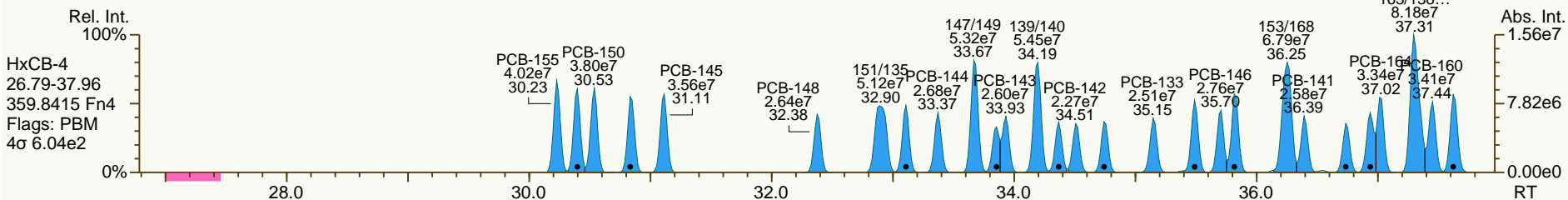
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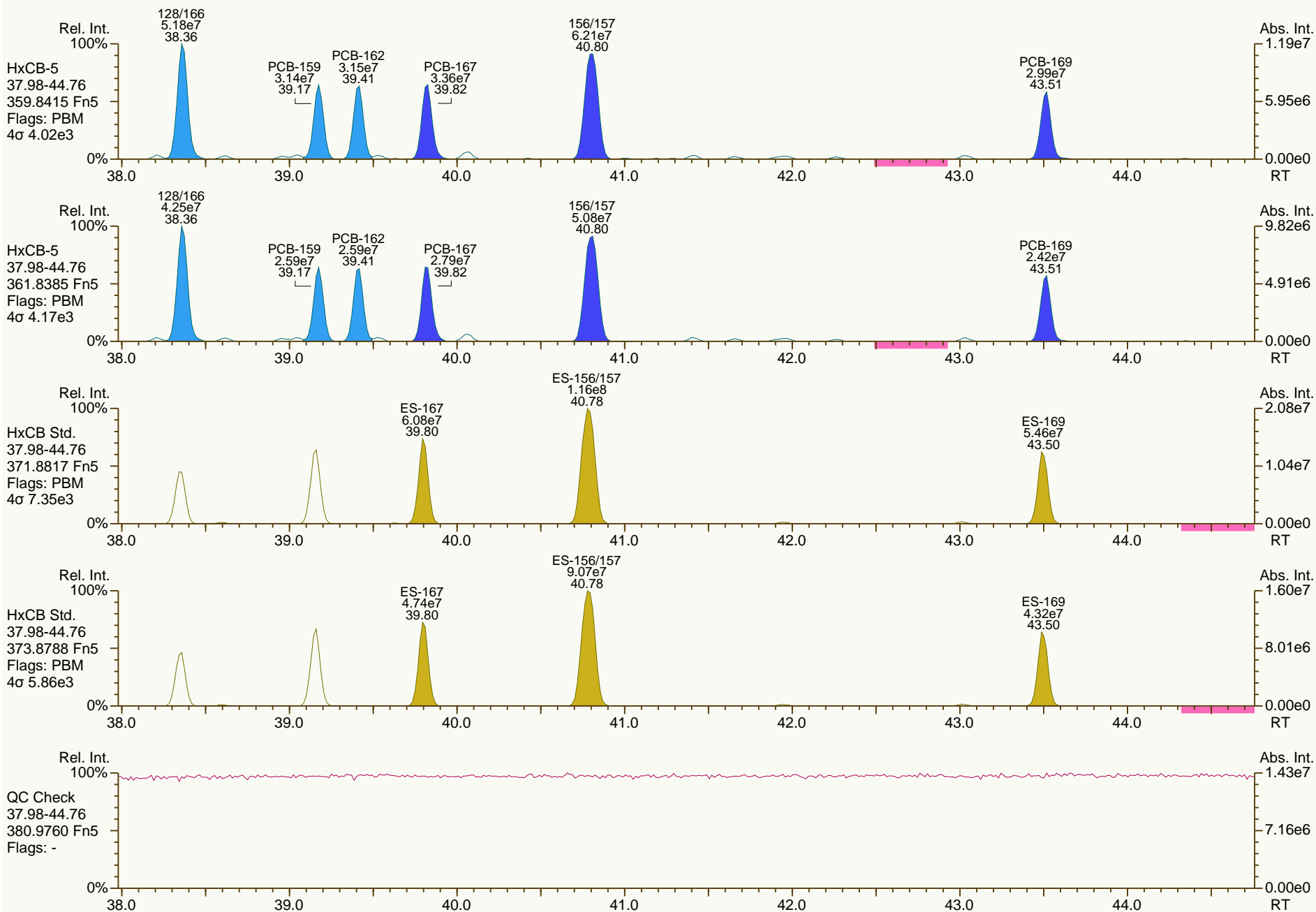
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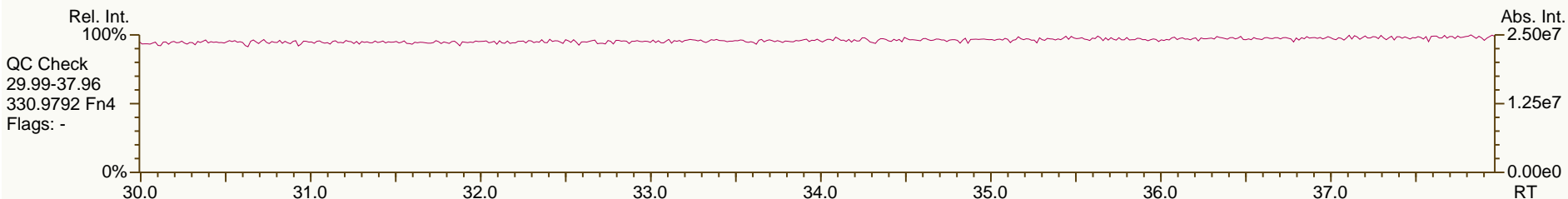
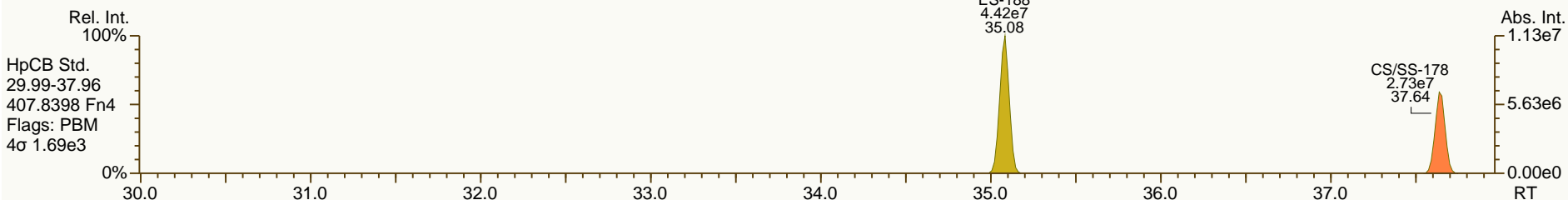
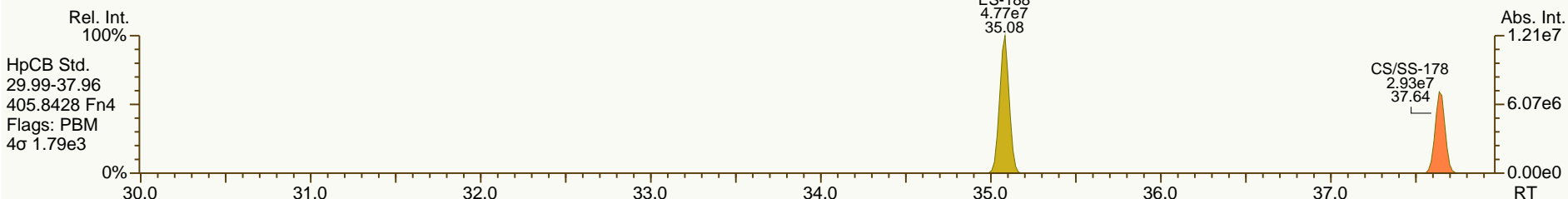
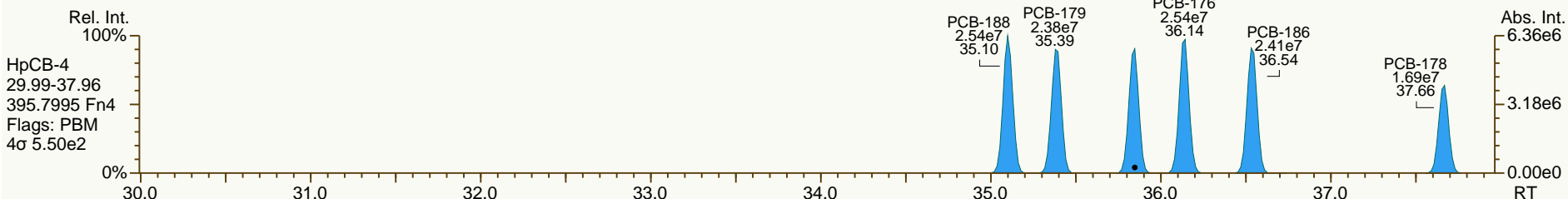
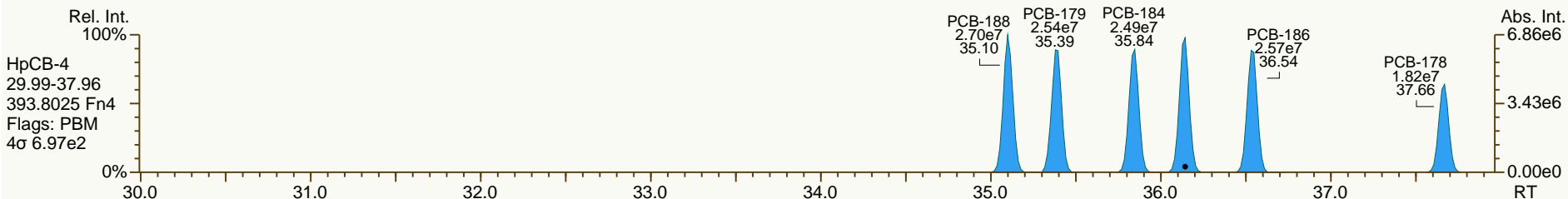
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 User: LKB Datafile: 140403X11



SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

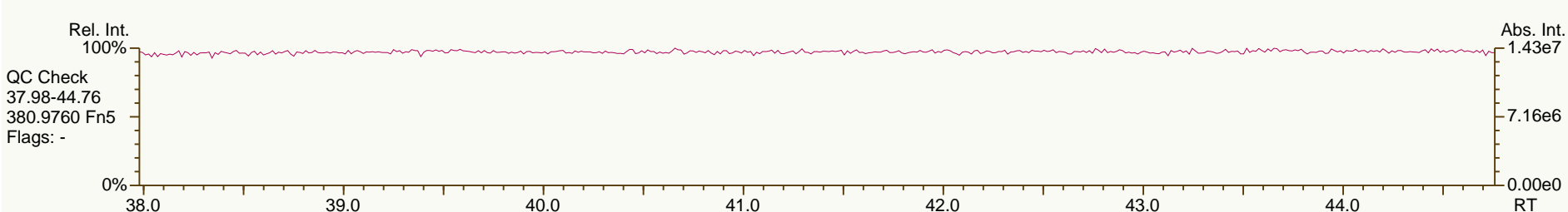
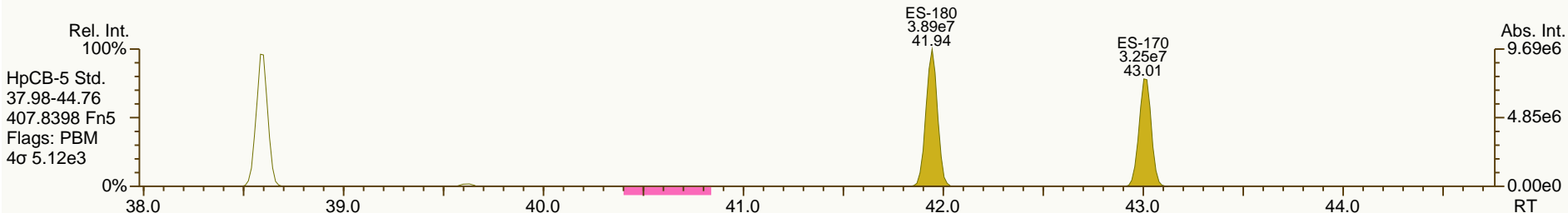
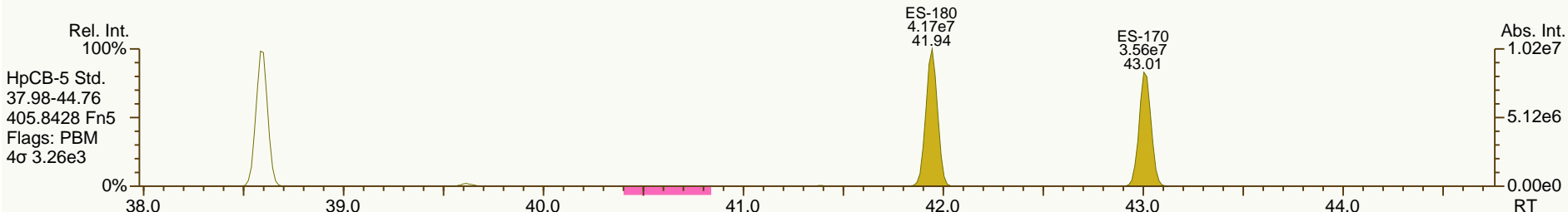
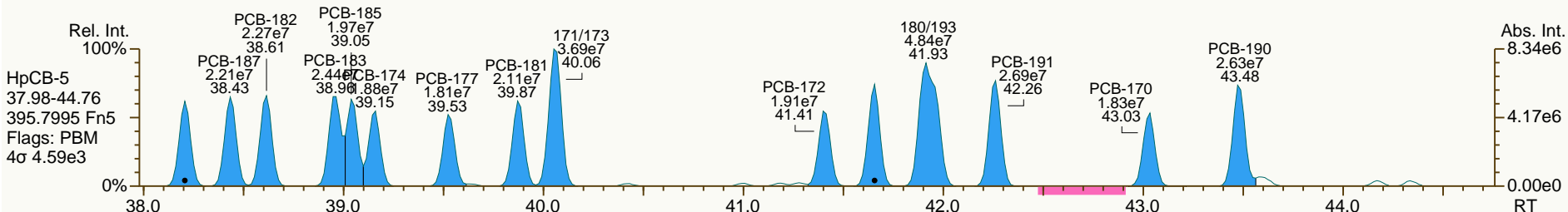
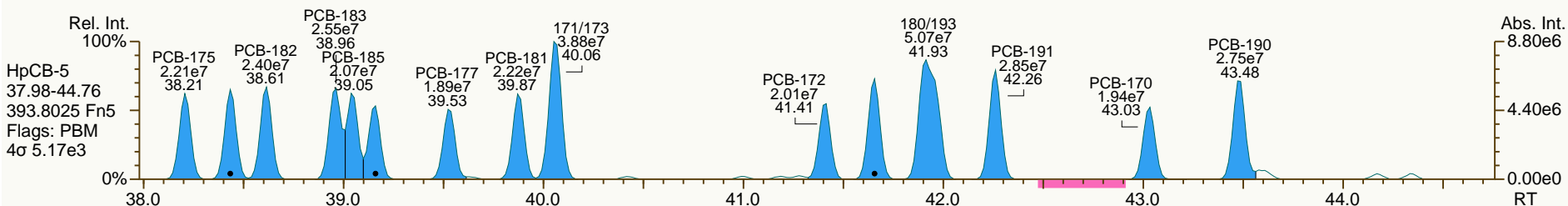
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 3

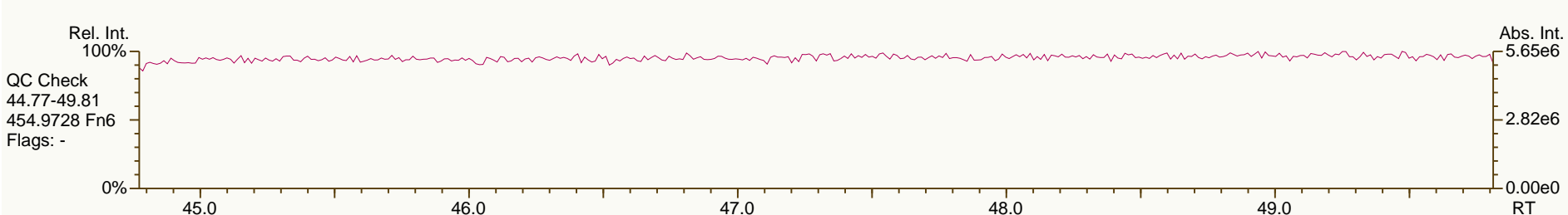
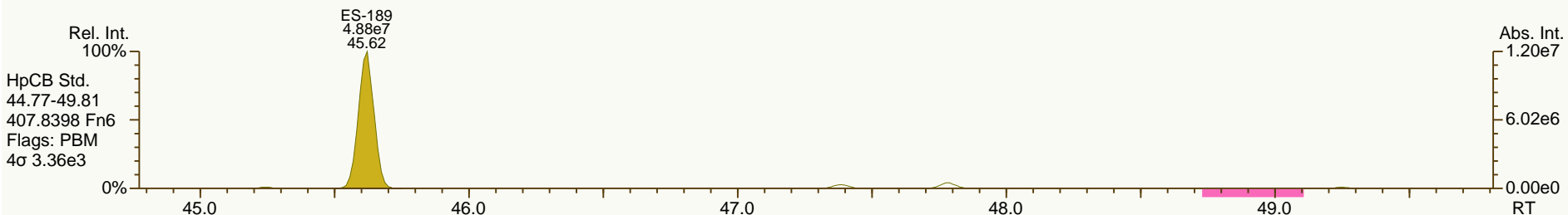
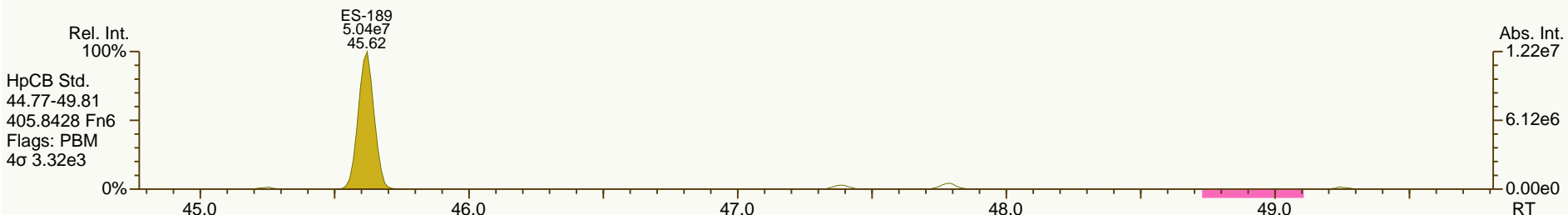
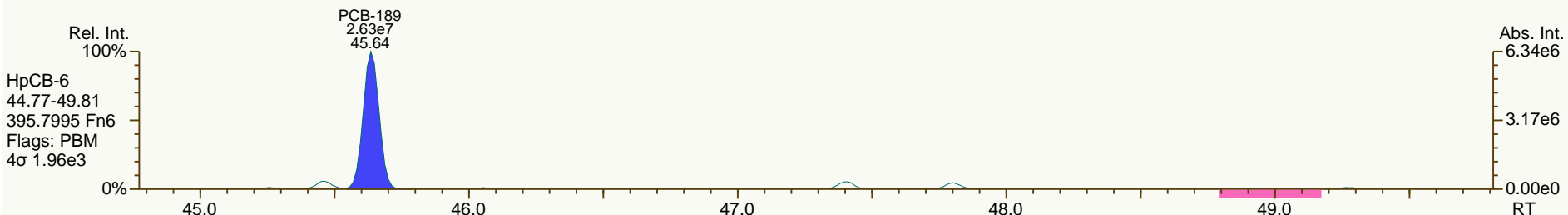
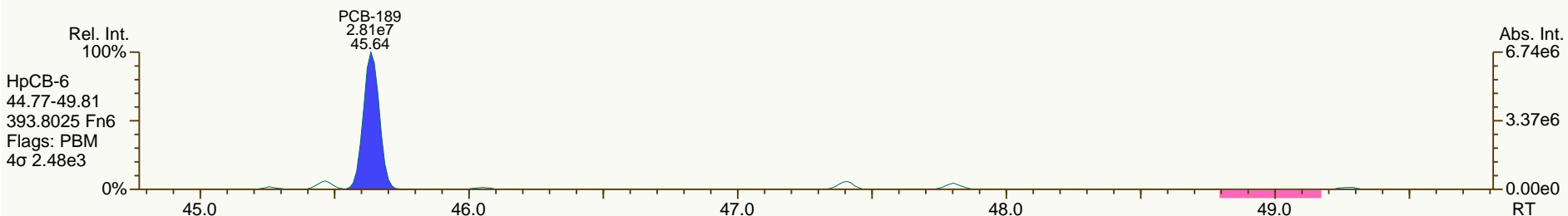
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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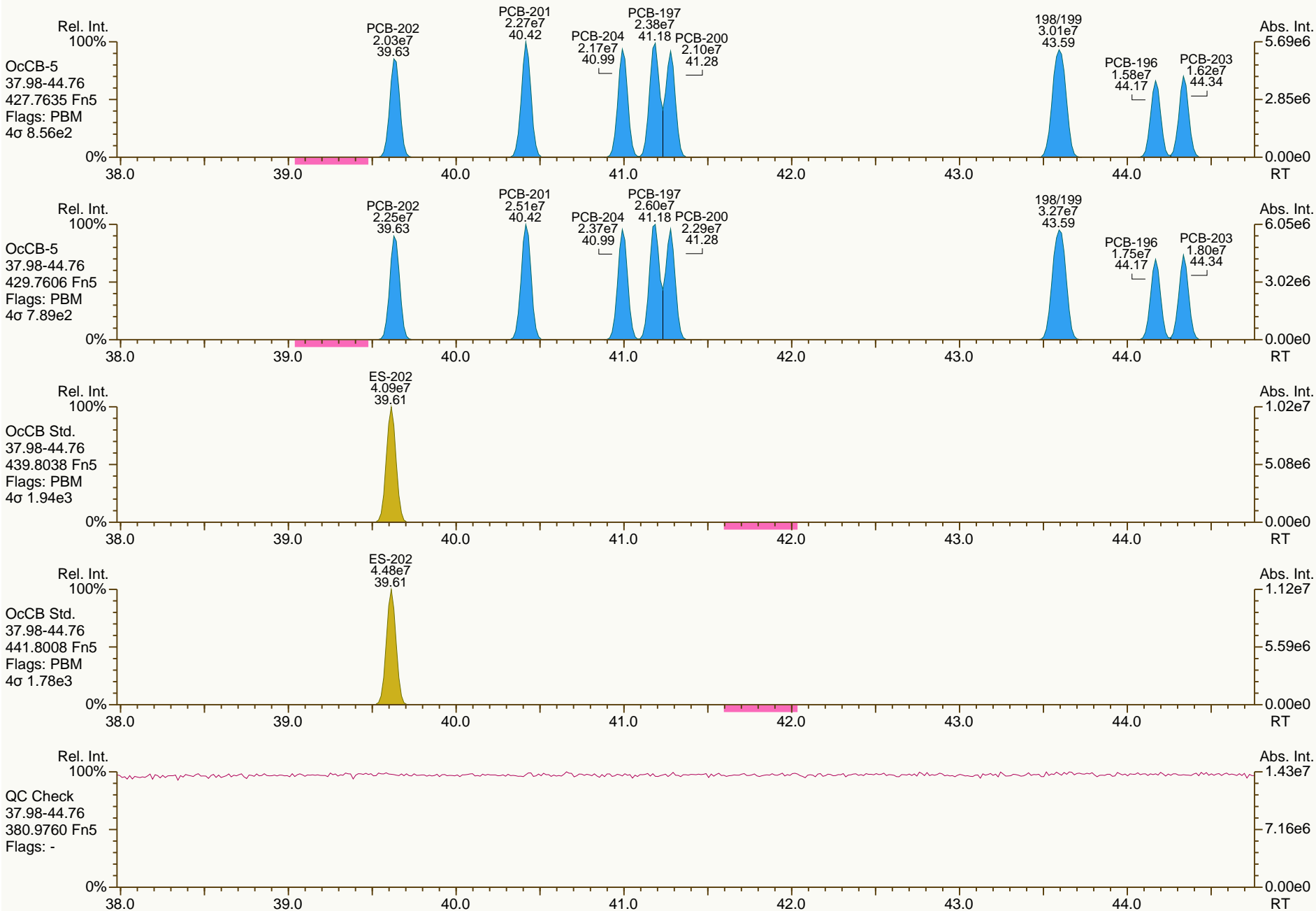
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SGS ID: CS3\_140403\_PCB\_XC  
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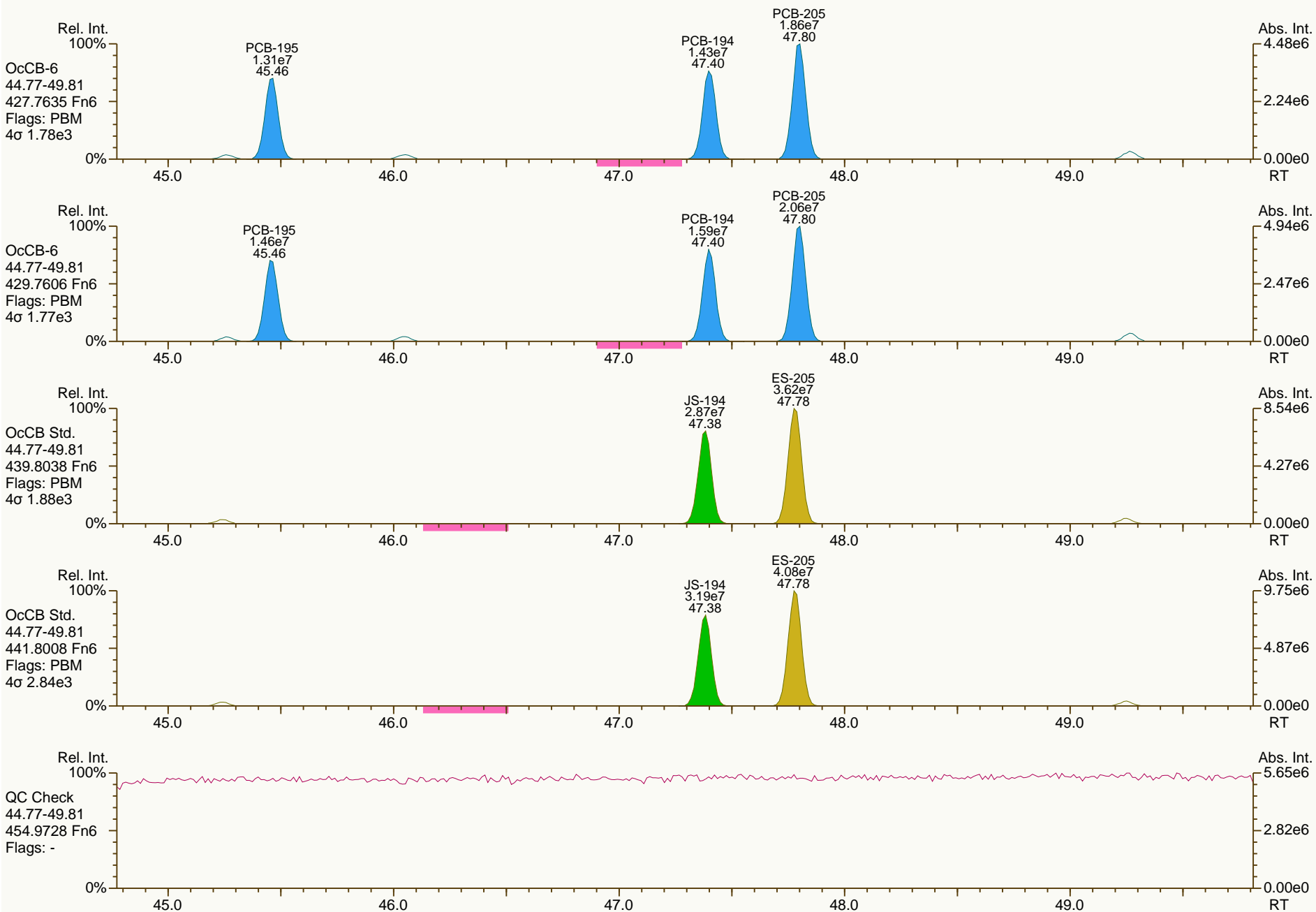
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SGS ID: CS3\_140403\_PCB\_XC  
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Sample ID: SIL 13-79-3  
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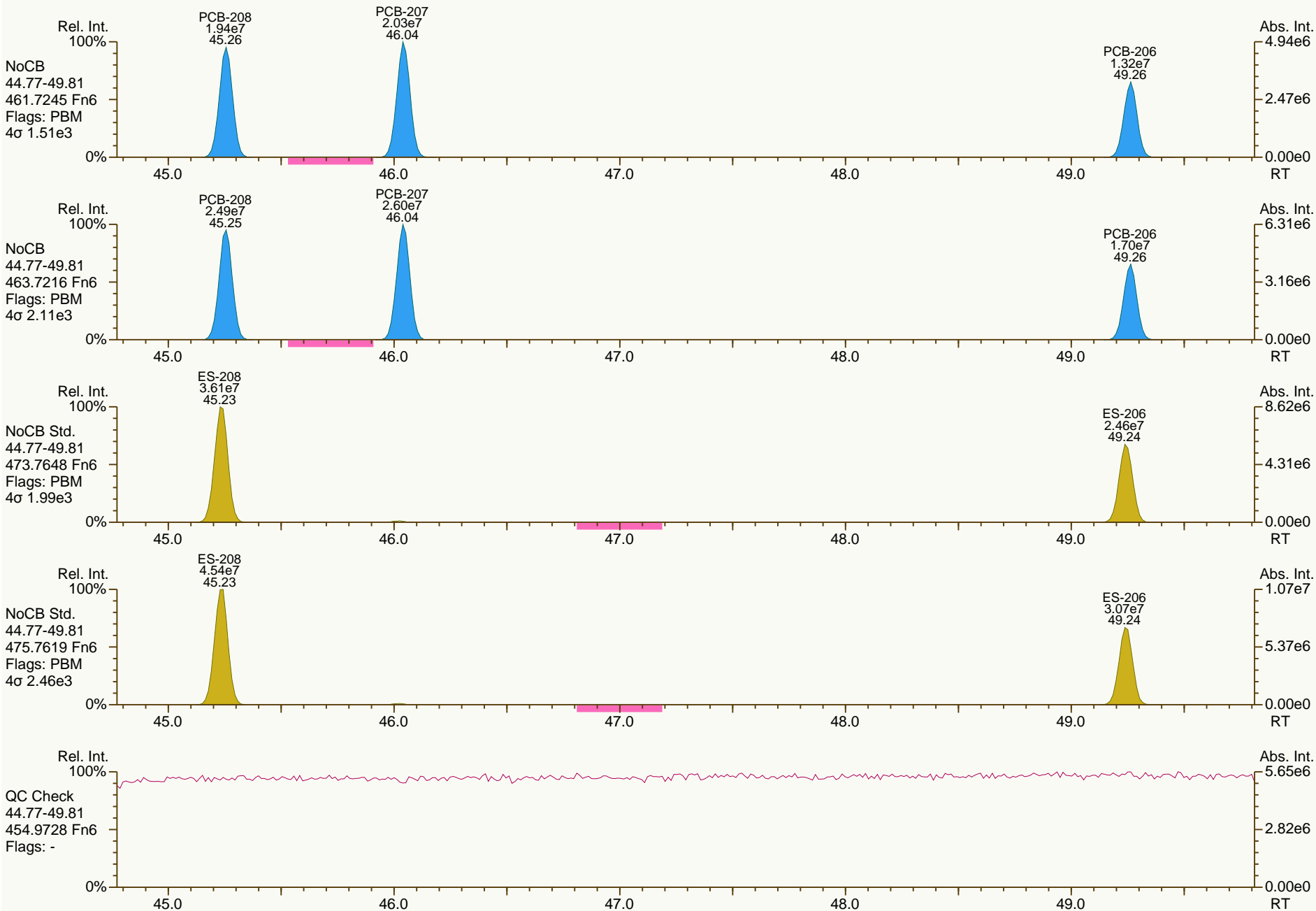




SGS ID: CS3\_140403\_PCB\_XC  
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Sample ID: SIL 13-79-3  
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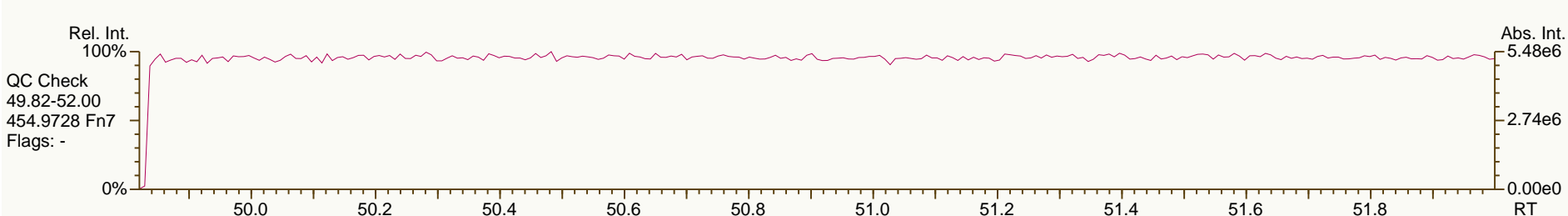
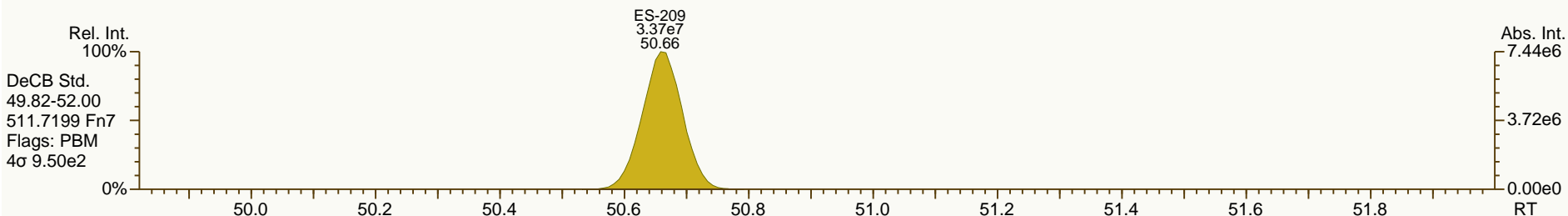
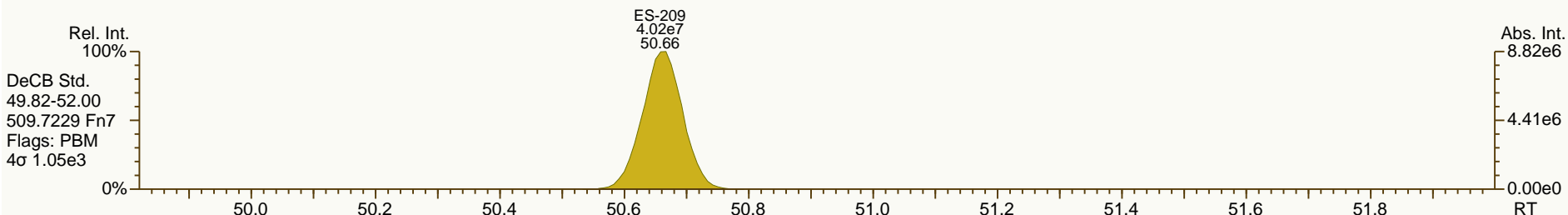
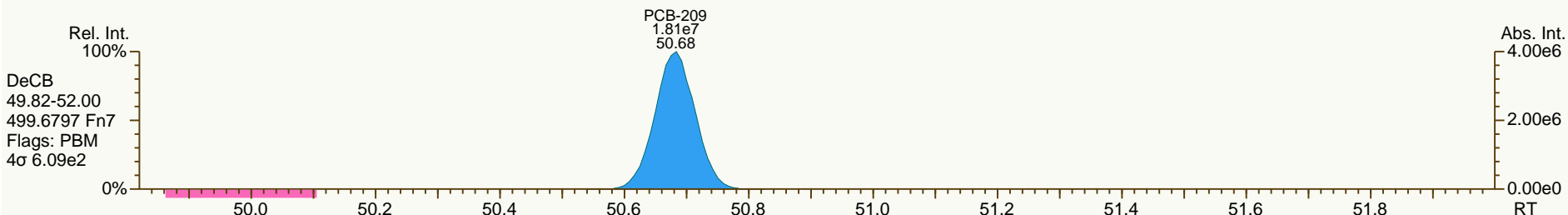
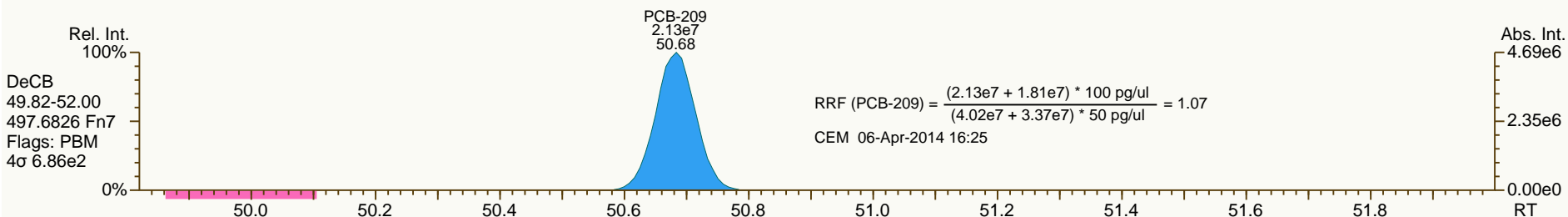
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SGS ID: CS3\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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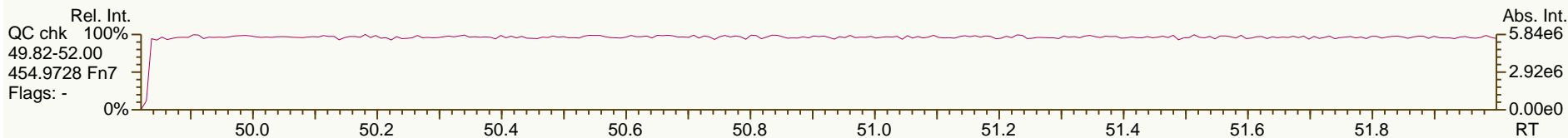
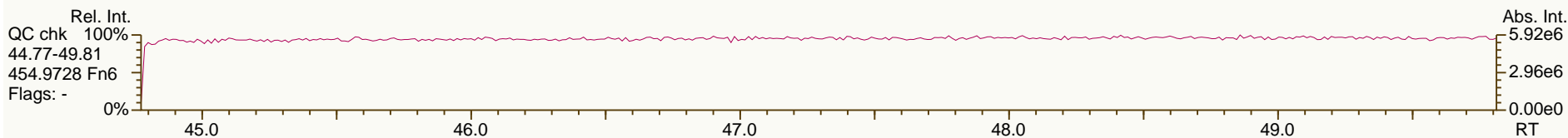
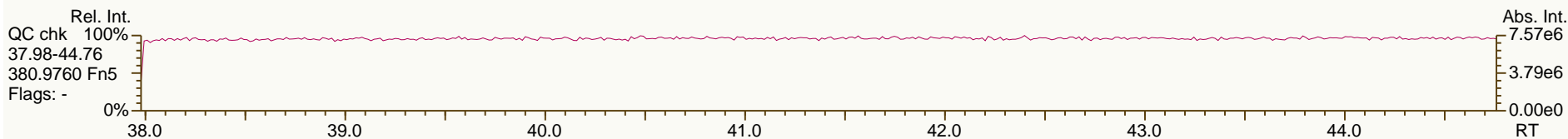
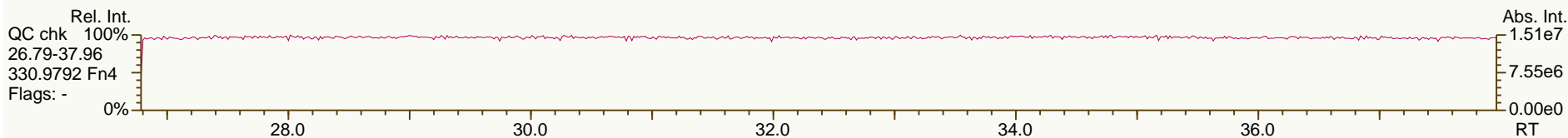
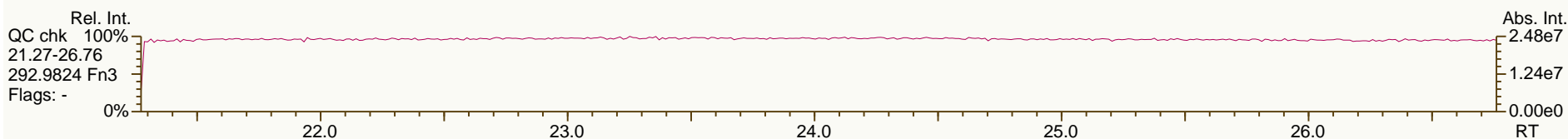
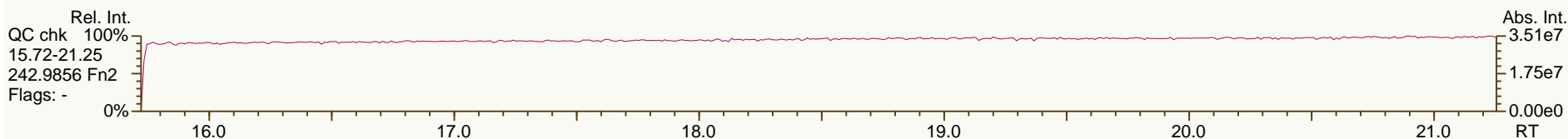
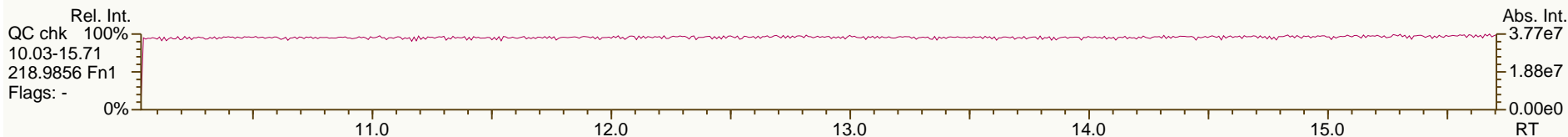
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SGS ID: SBS\_140402\_PCB\_XA  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

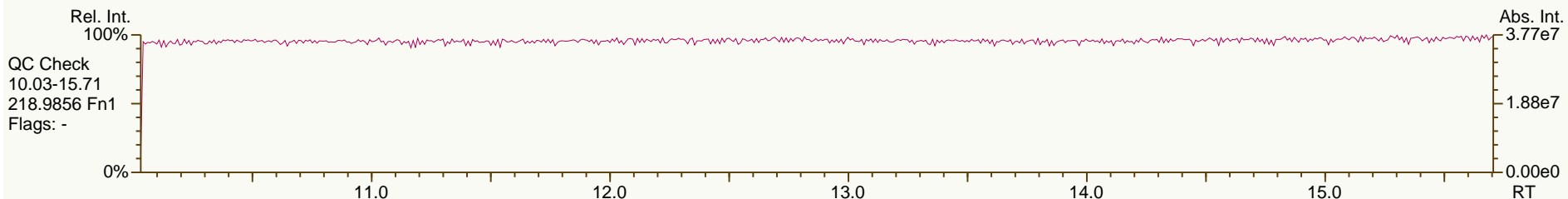
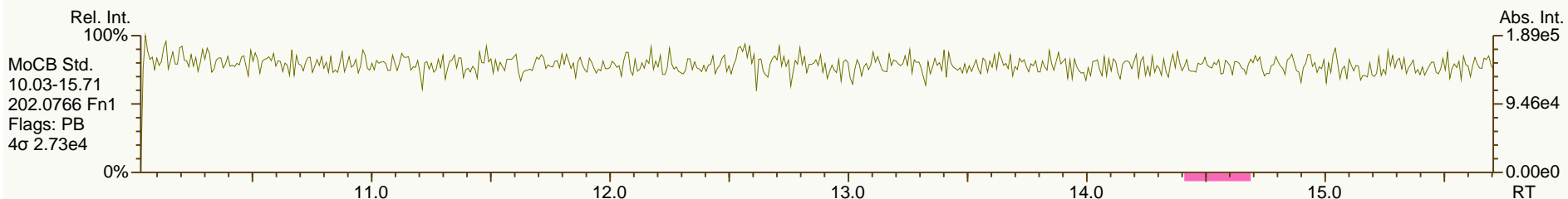
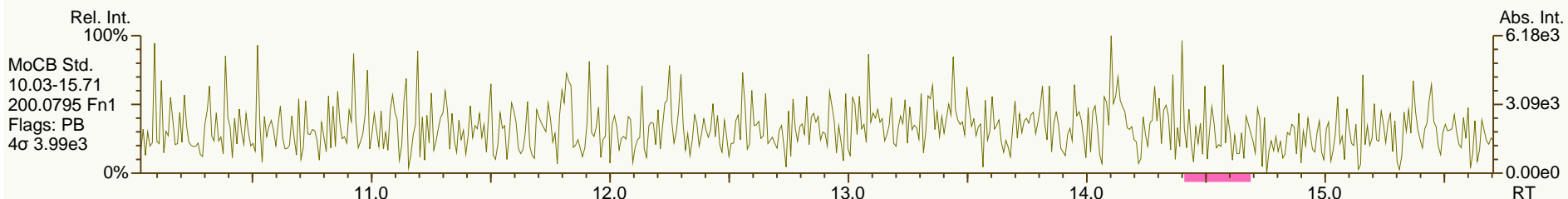
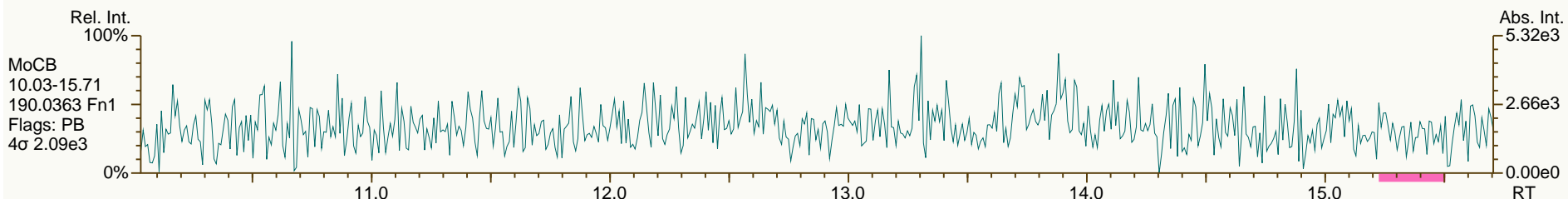
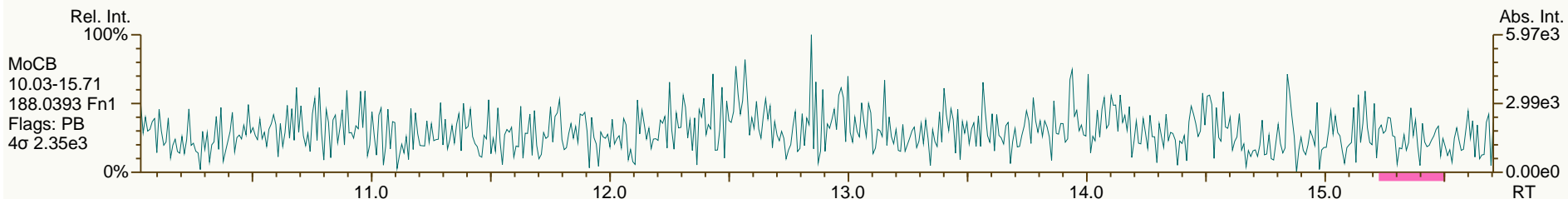
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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Acq: 02-Apr-2014 01:18:59  
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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Acq: 02-Apr-2014 01:18:59  
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

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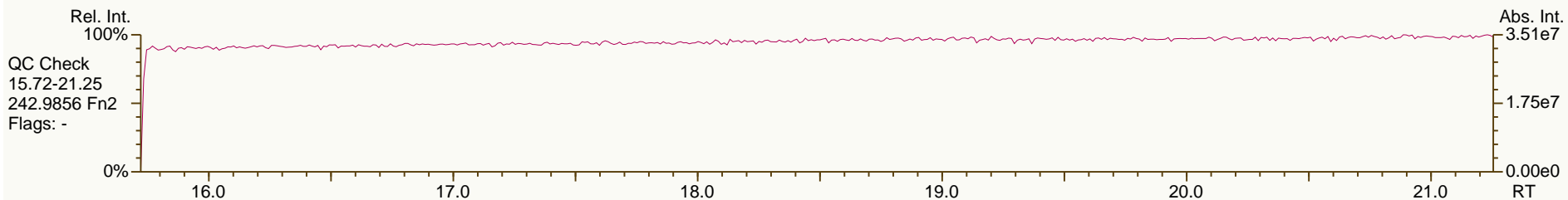
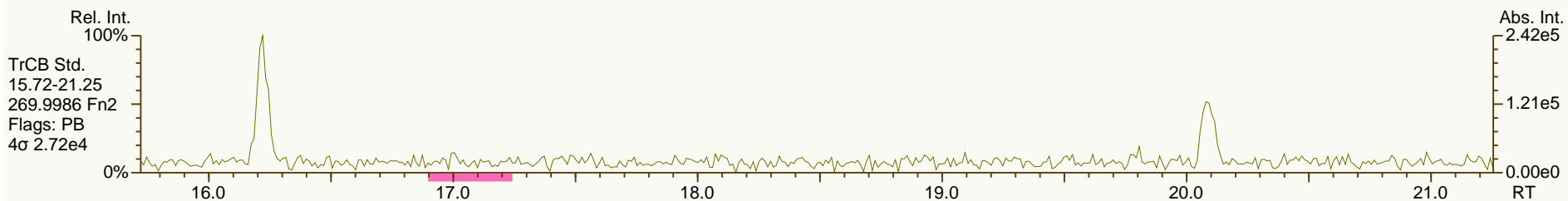
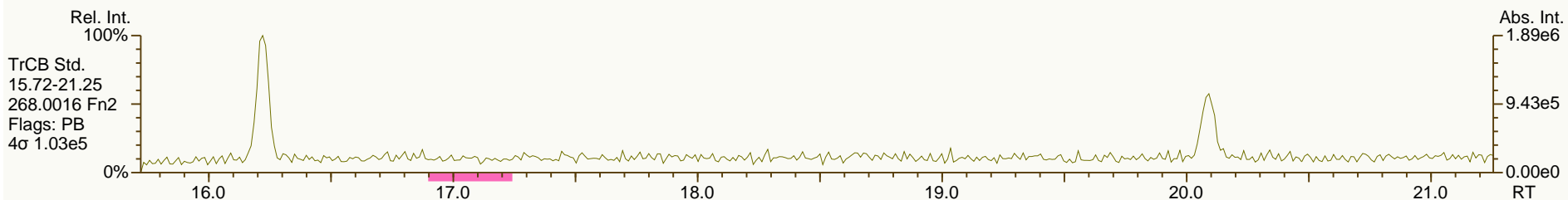
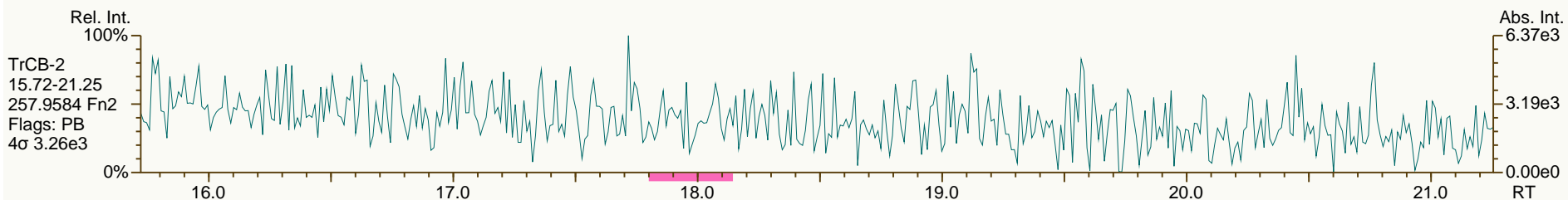
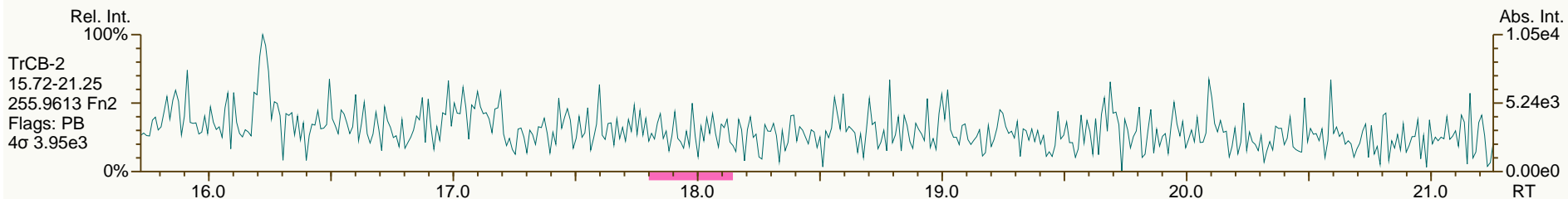
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SGS ID: SBS\_140402\_PCB\_XA  
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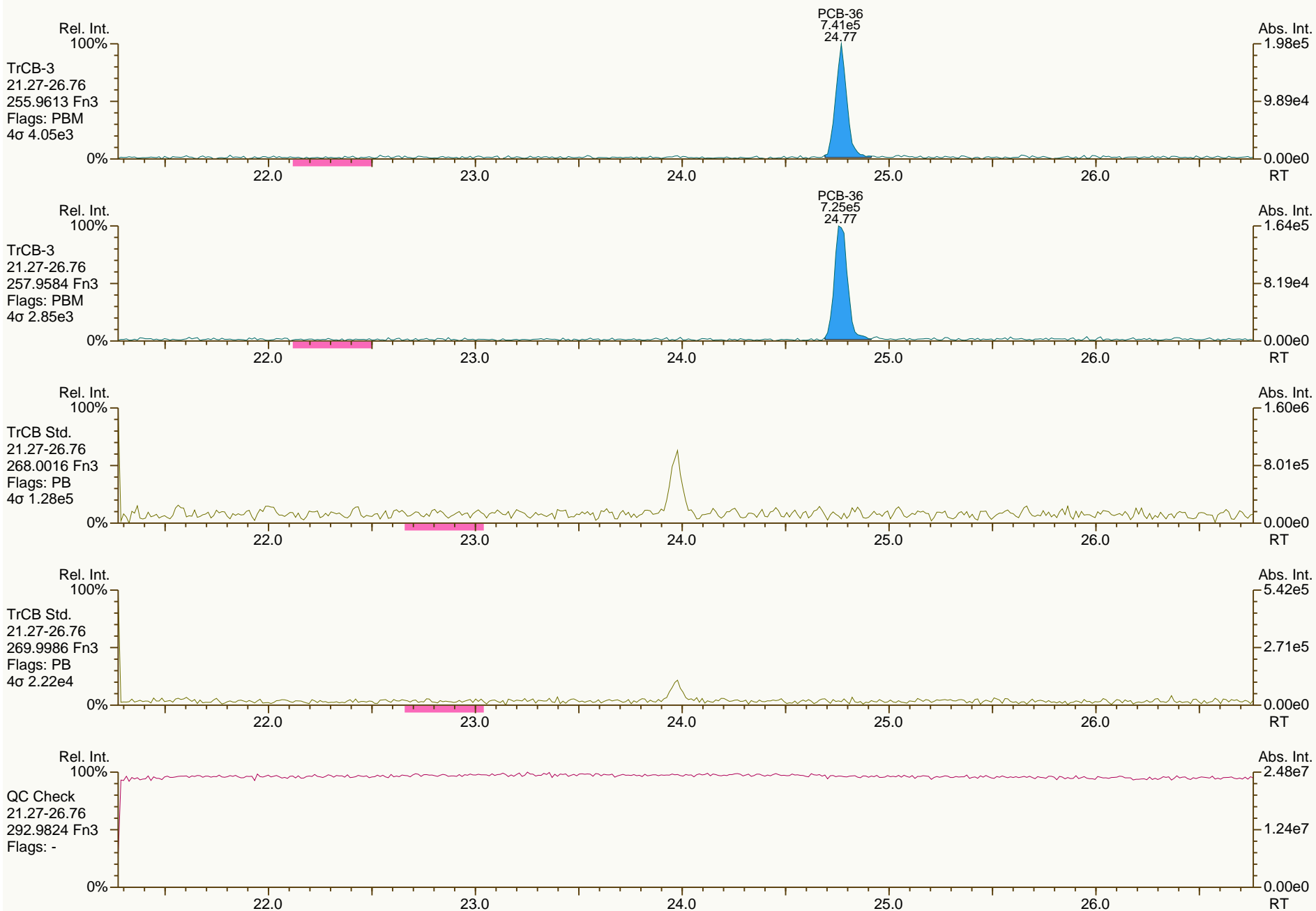
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SGS ID: SBS\_140402\_PCB\_XA  
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Sample ID: SIL 13-42-1  
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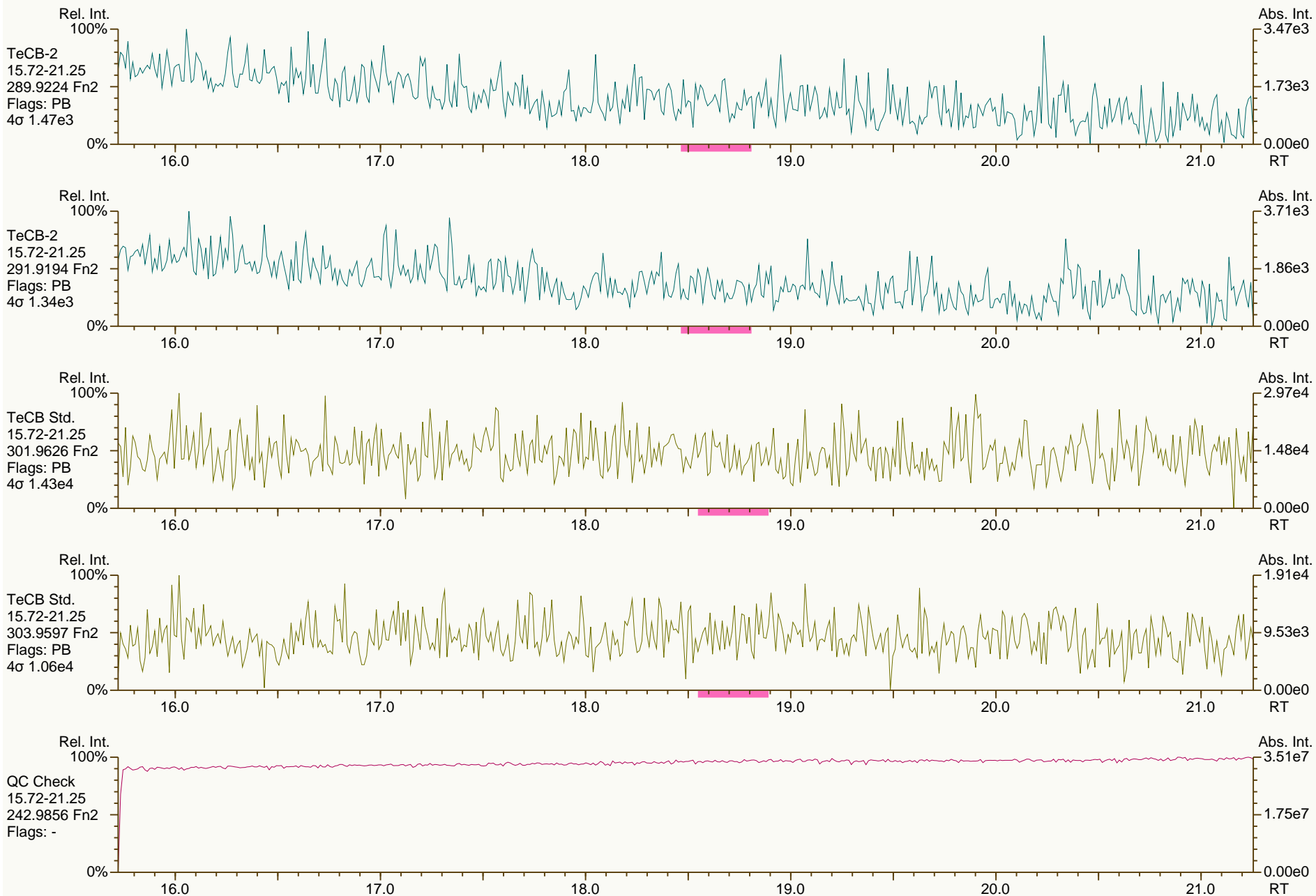




SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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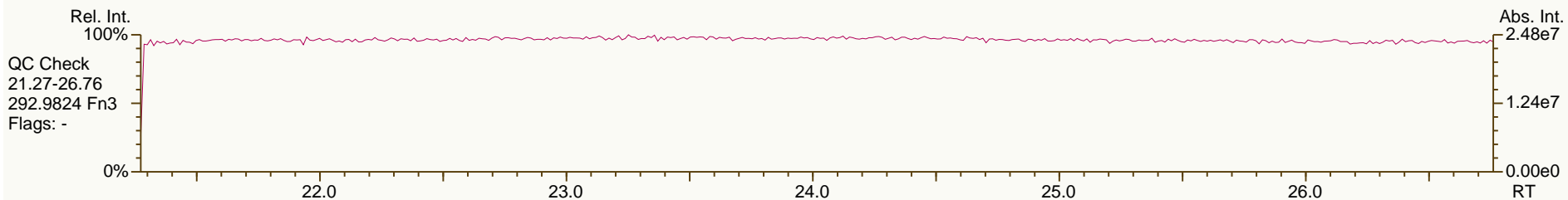
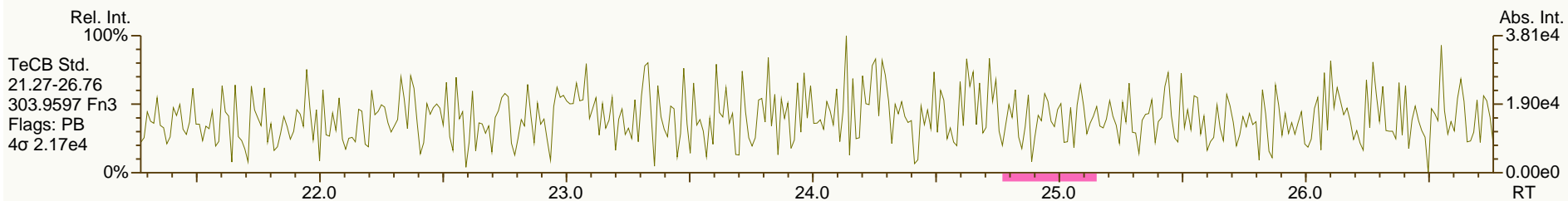
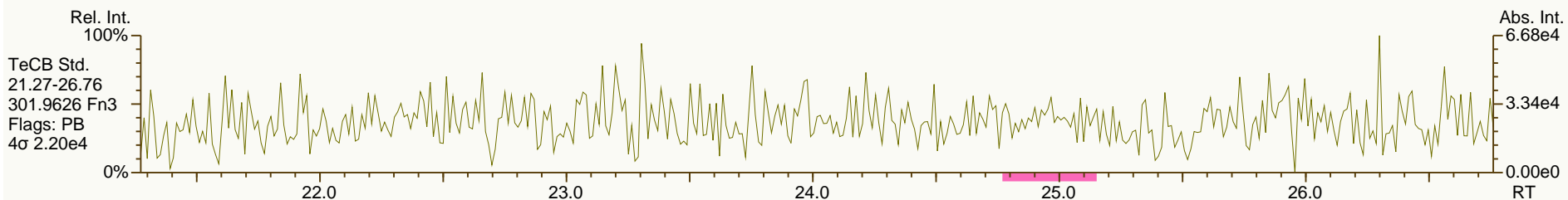
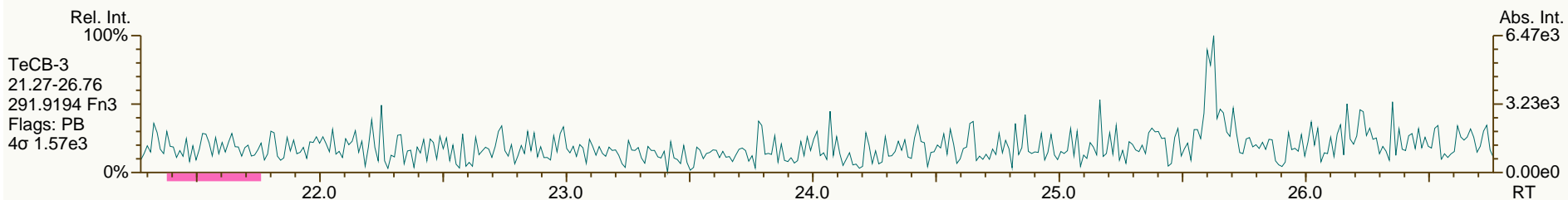
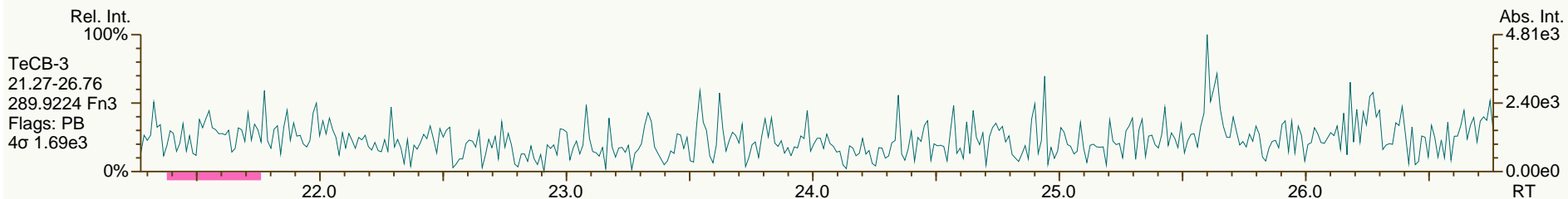
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SGS ID: SBS\_140402\_PCB\_XA  
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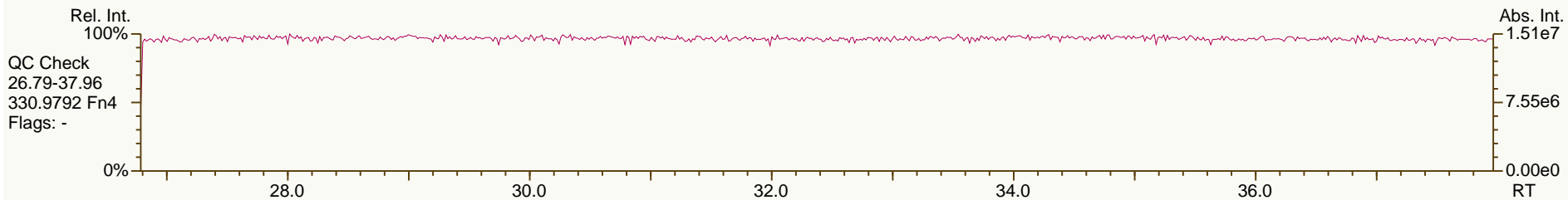
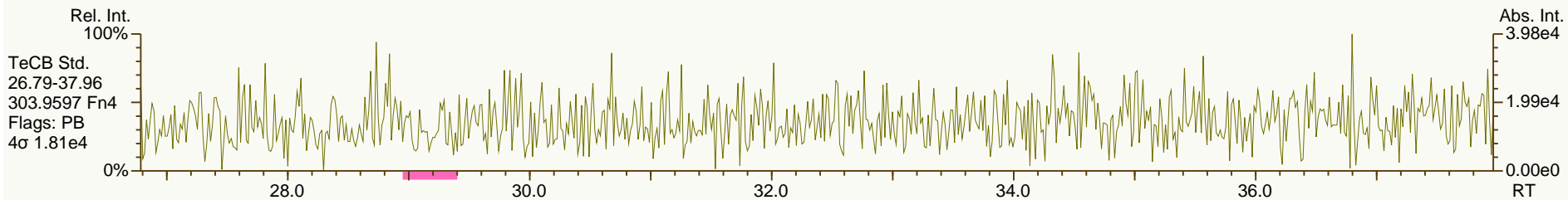
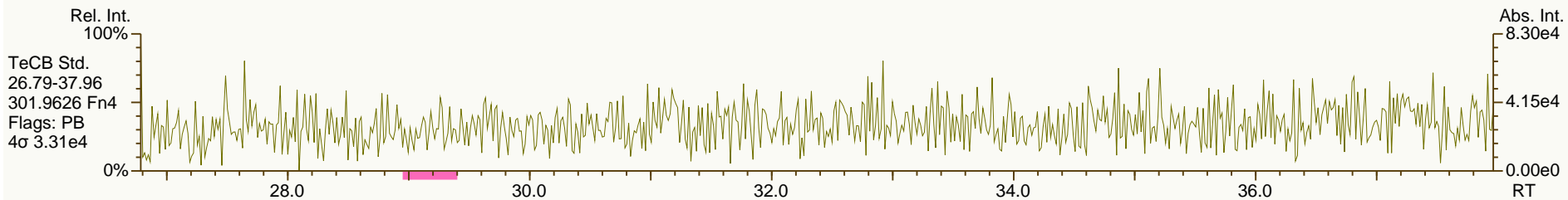
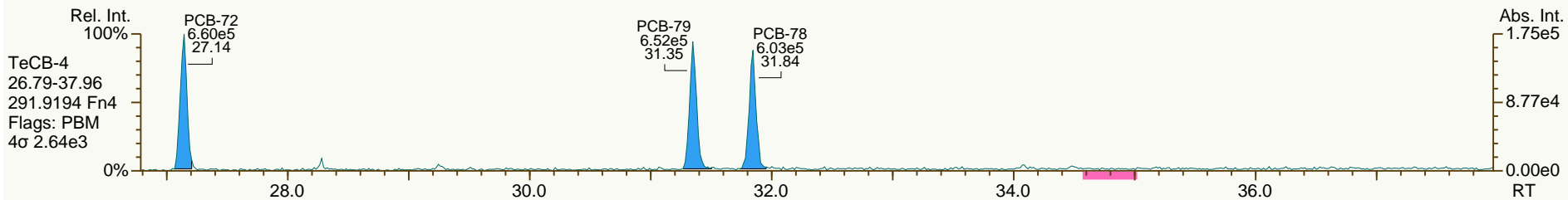
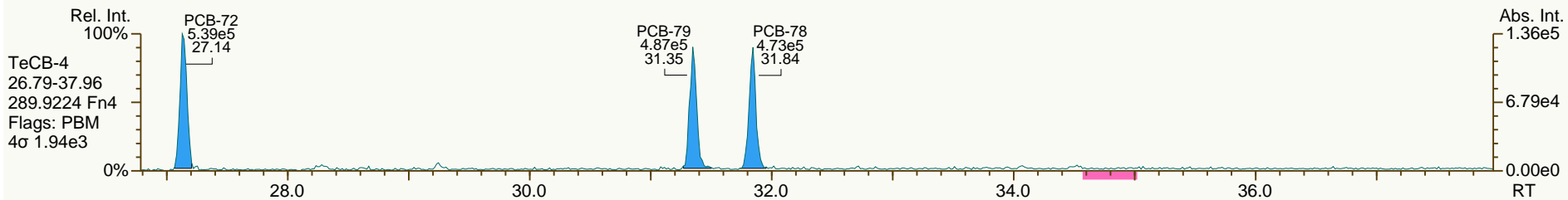
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SGS ID: SBS\_140402\_PCB\_XA  
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Sample ID: SIL 13-42-1  
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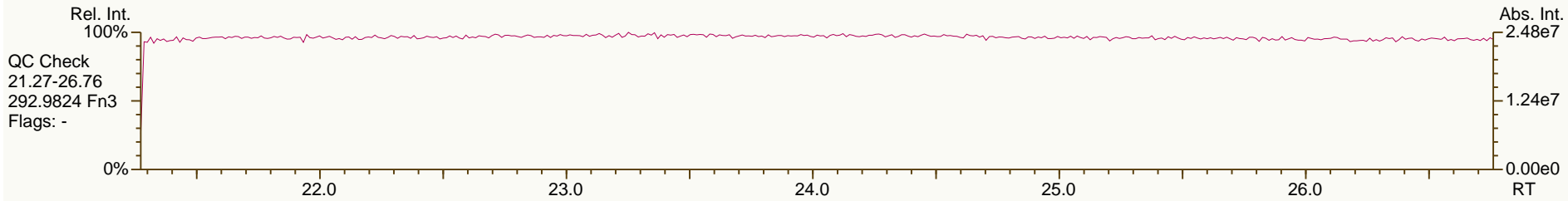
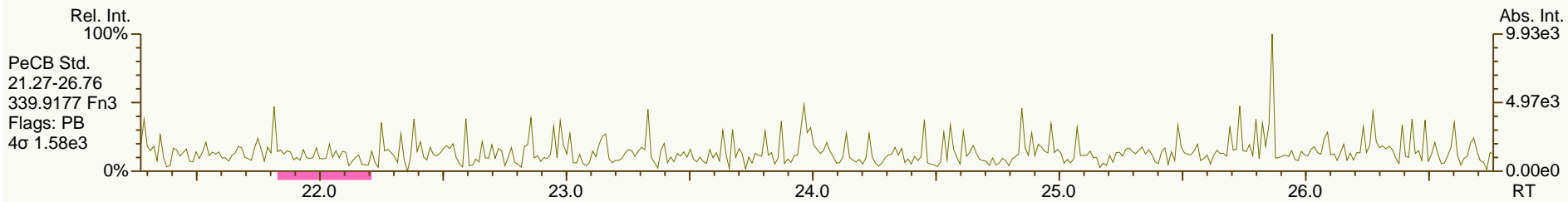
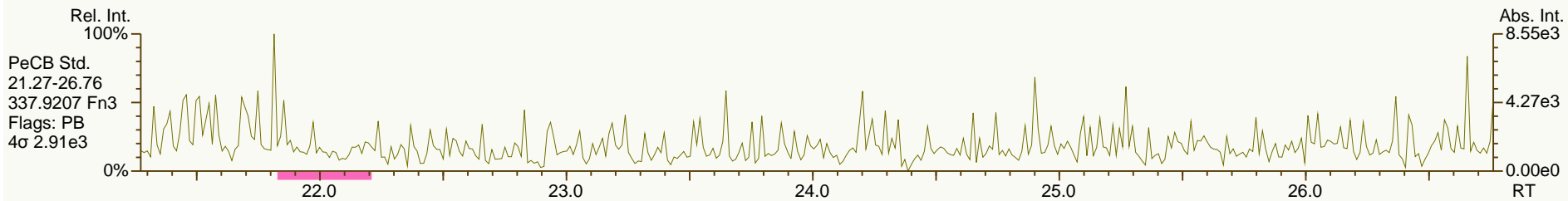
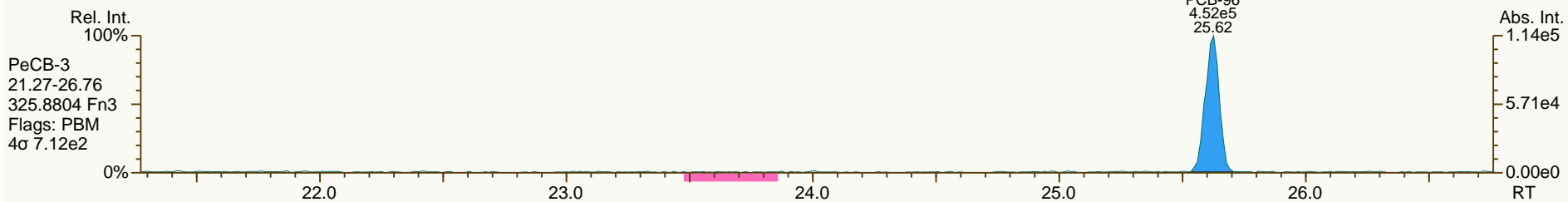
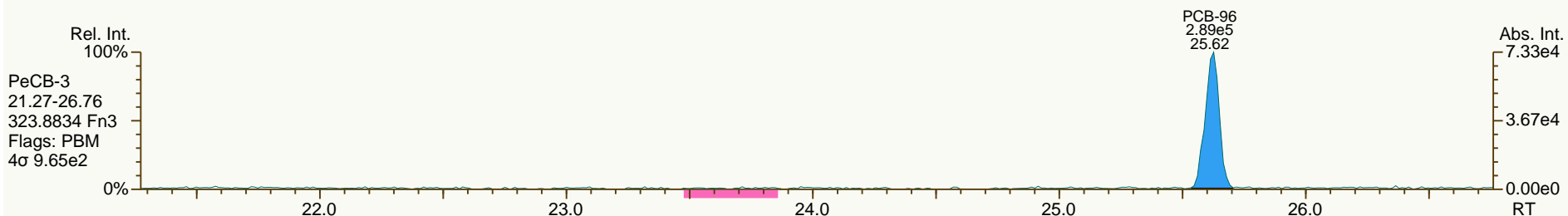
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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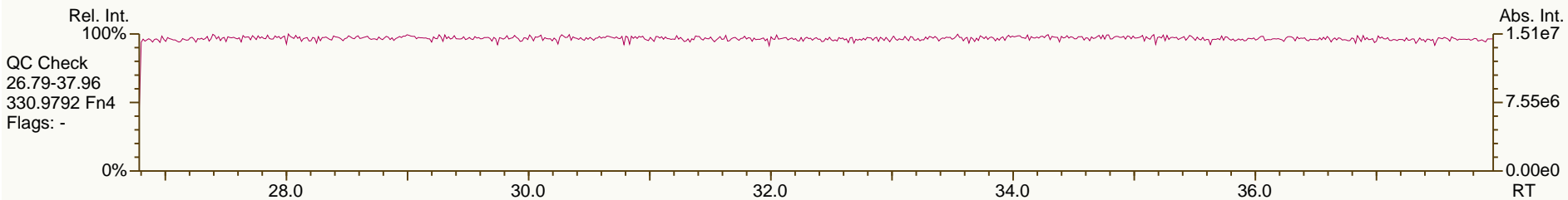
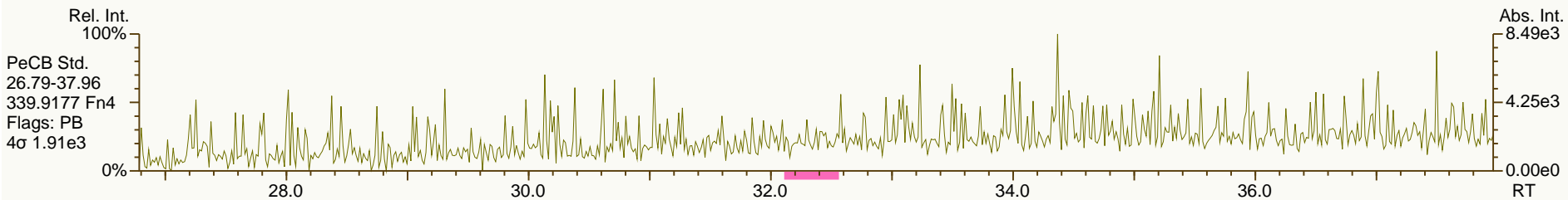
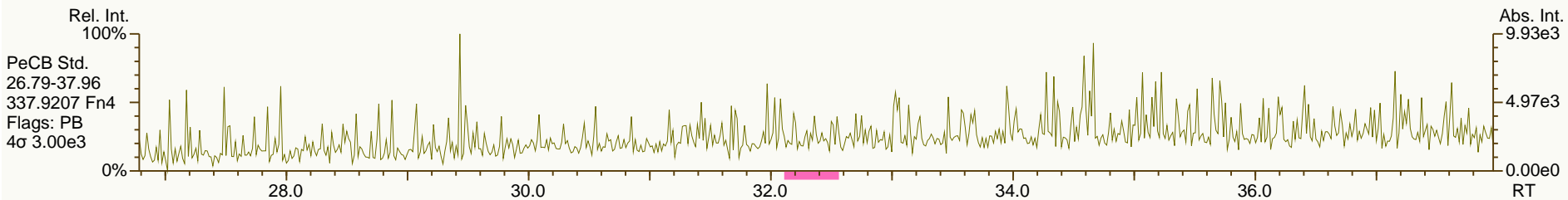
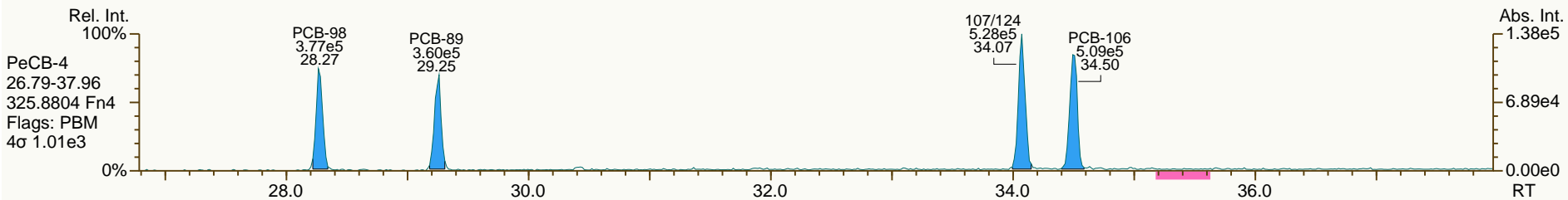
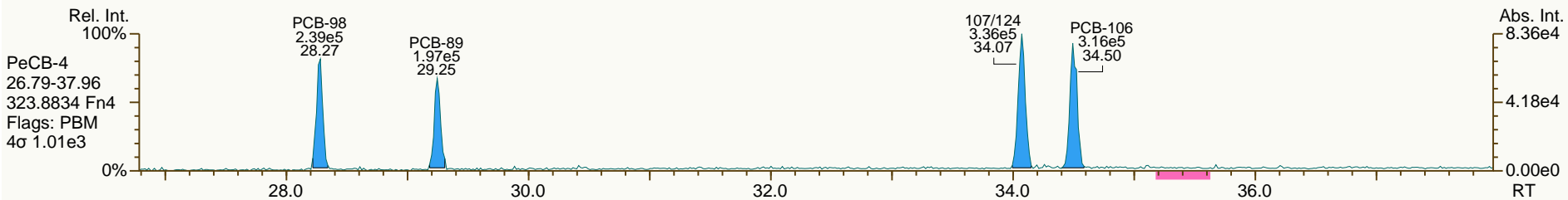
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SGS ID: SBS\_140402\_PCB\_XA  
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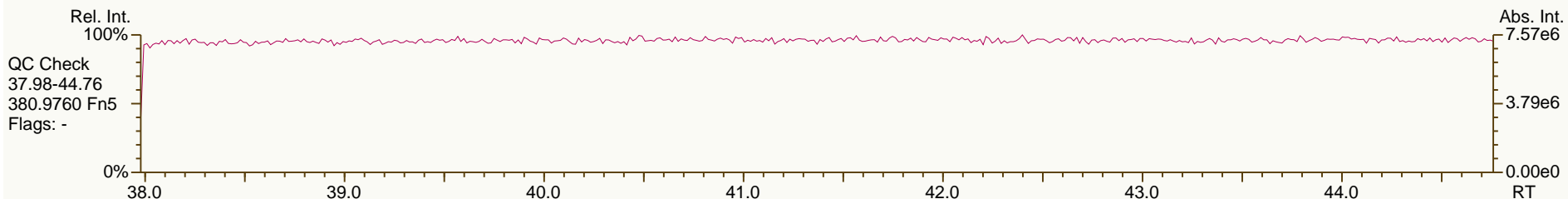
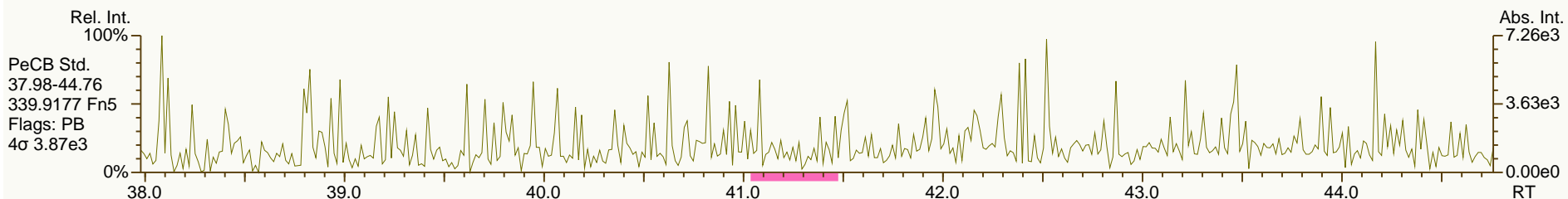
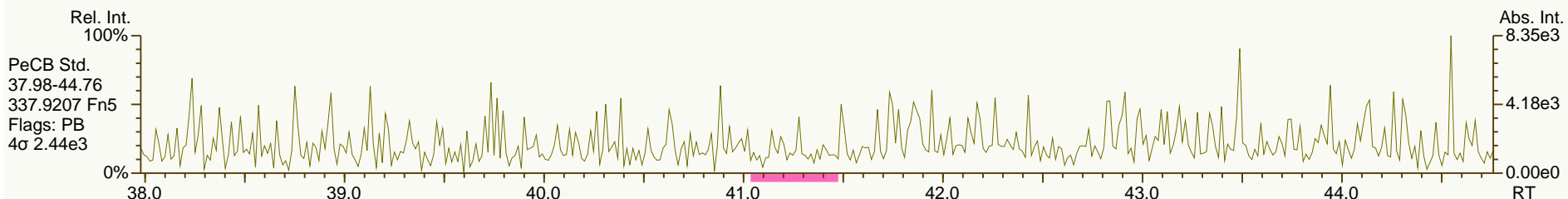
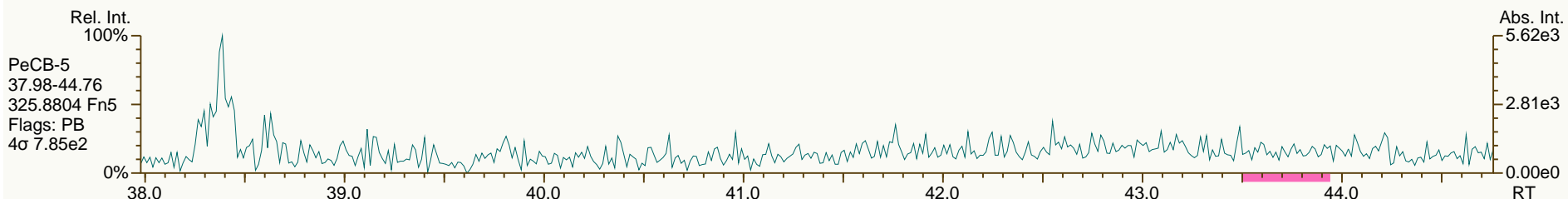
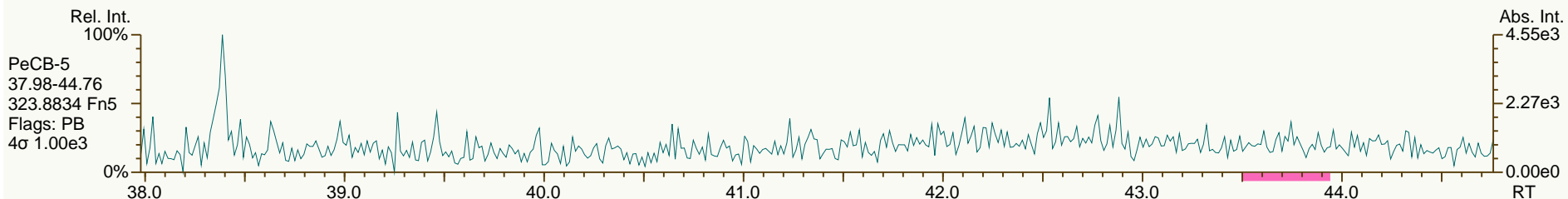
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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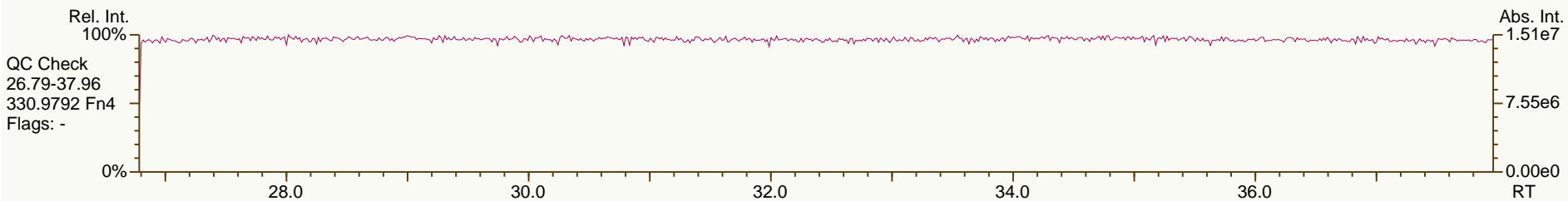
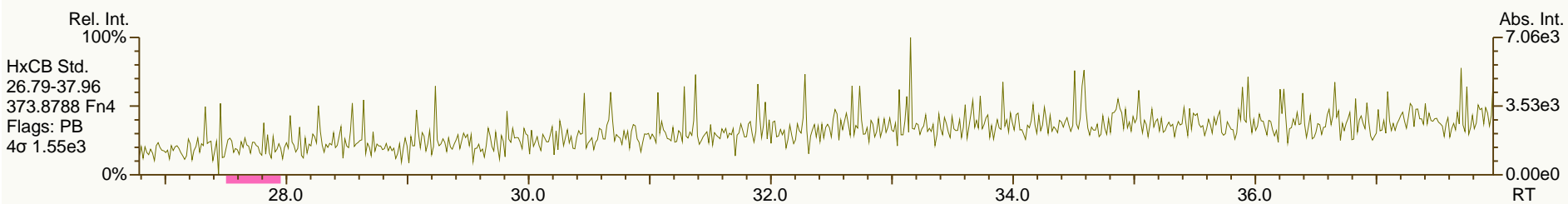
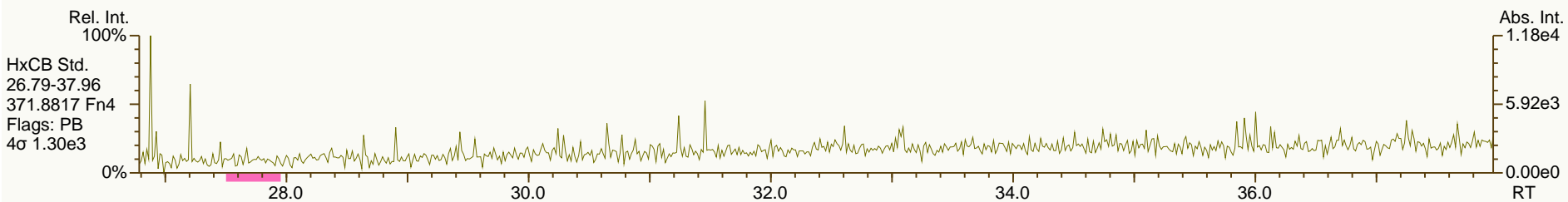
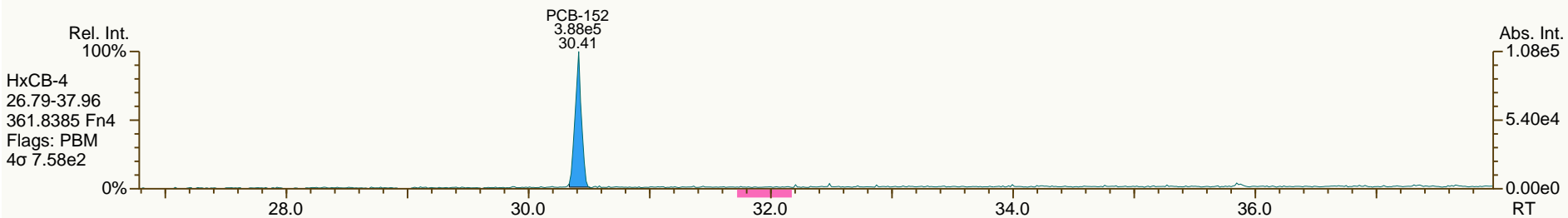
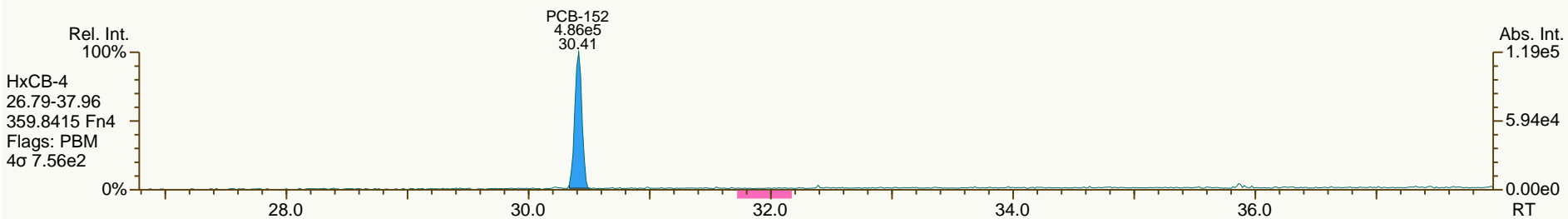
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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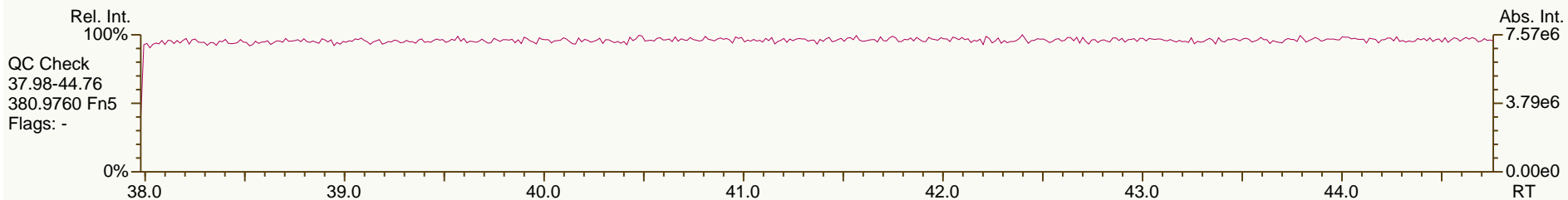
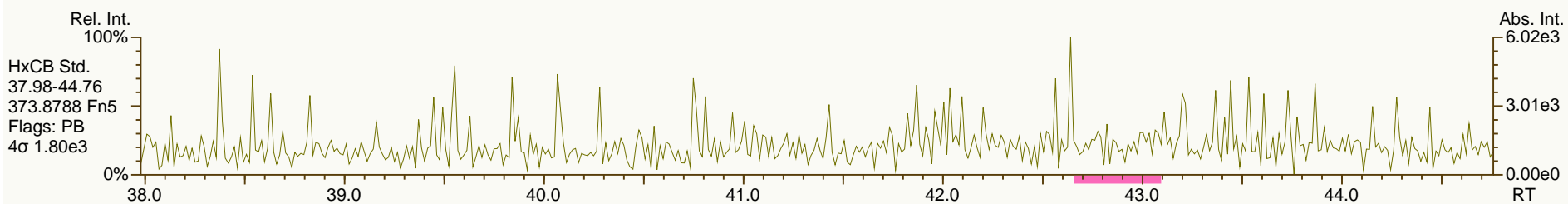
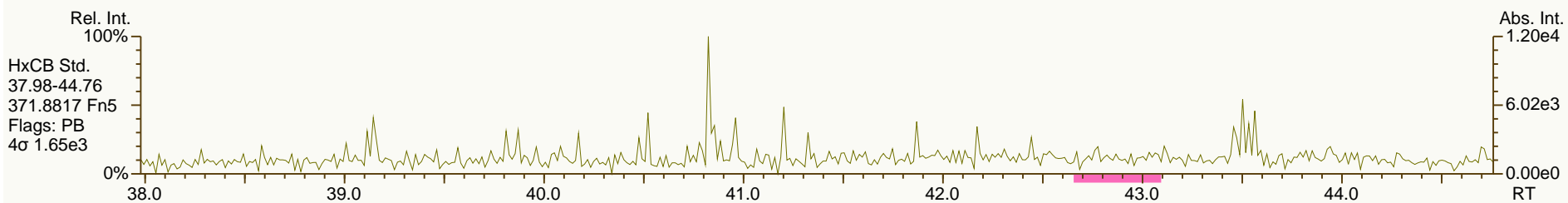
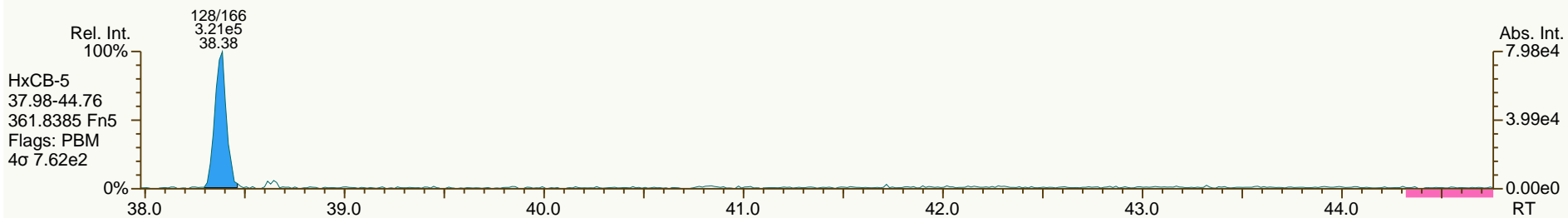
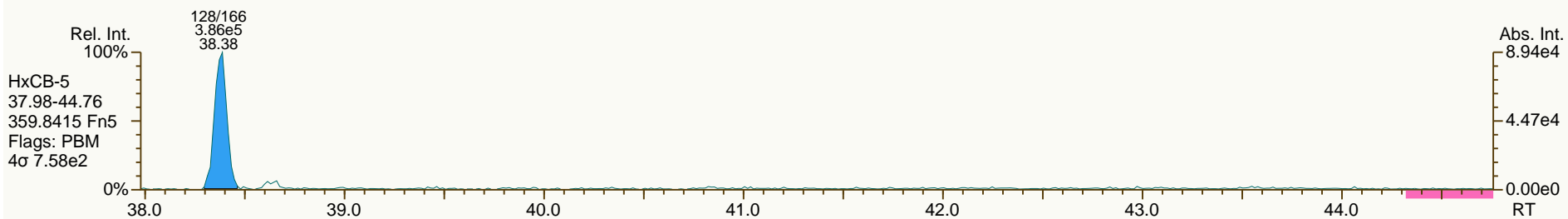
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 02-Apr-2014 01:18:59  
 User: LKB Datafile: 140402X03





SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

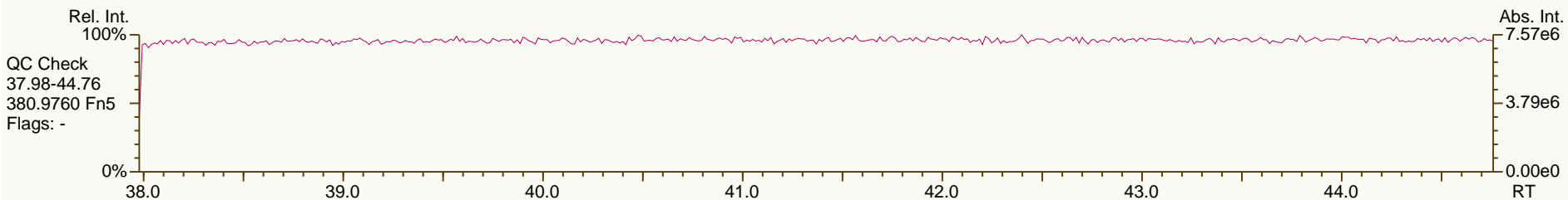
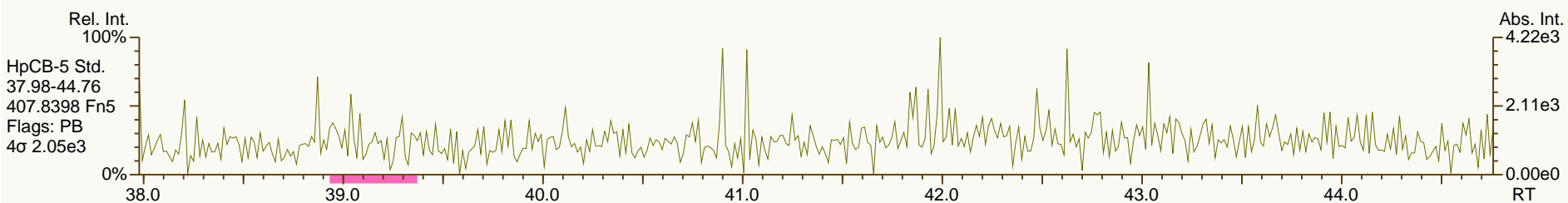
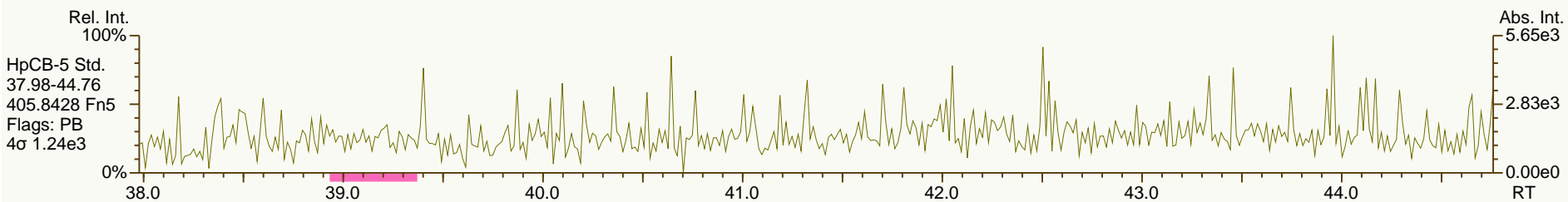
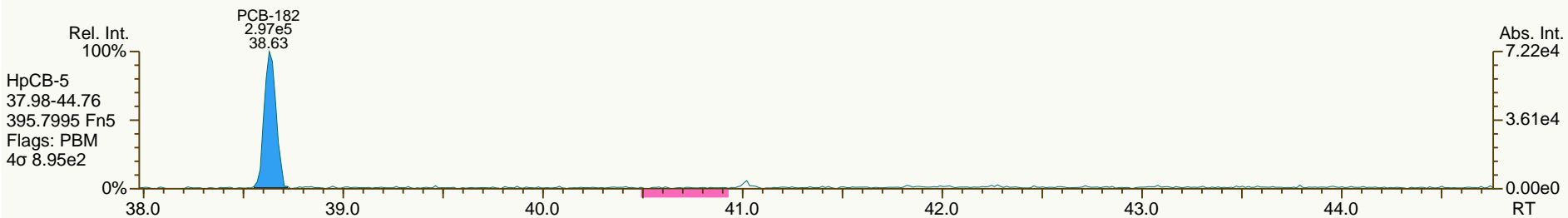
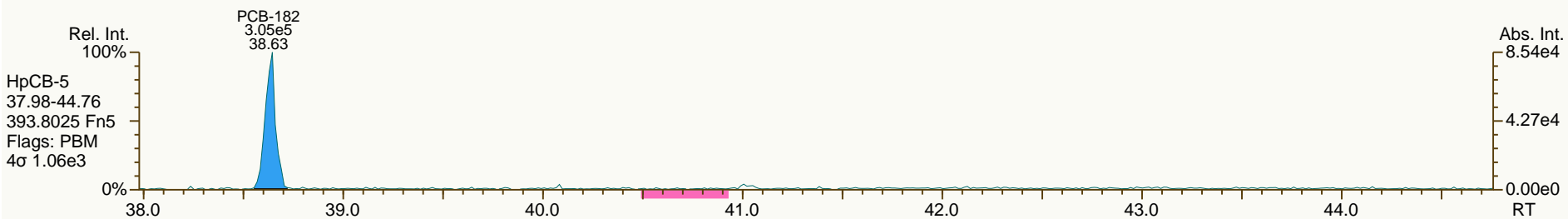
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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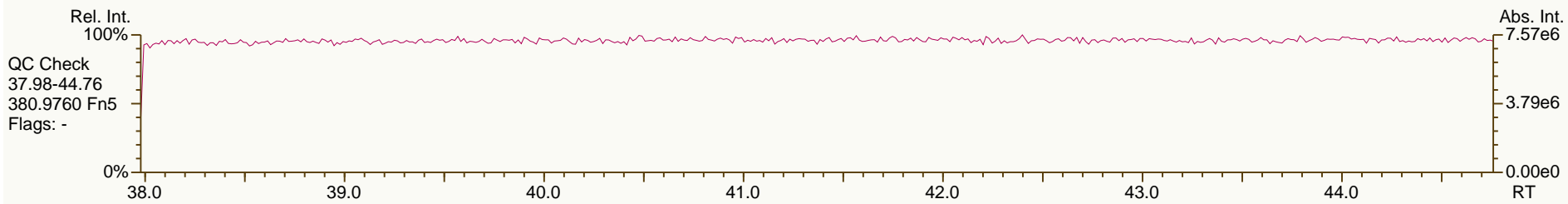
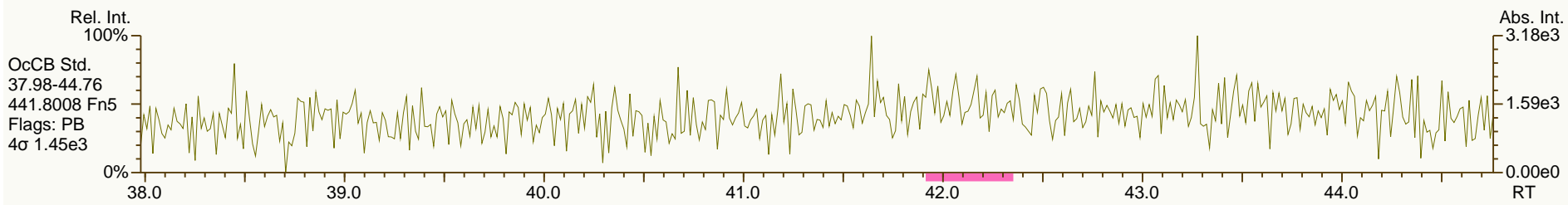
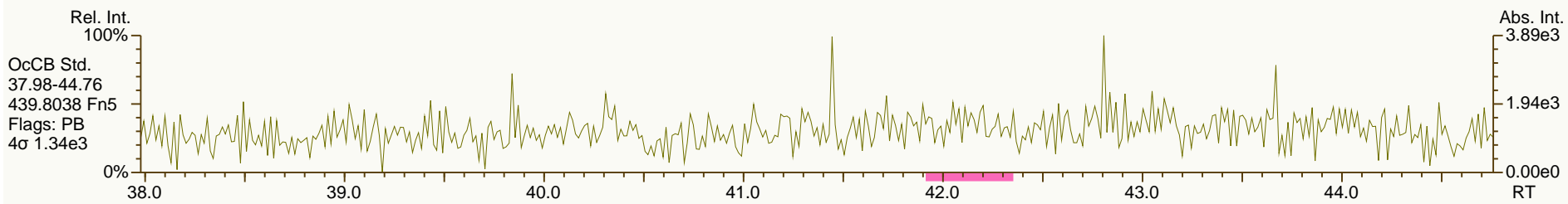
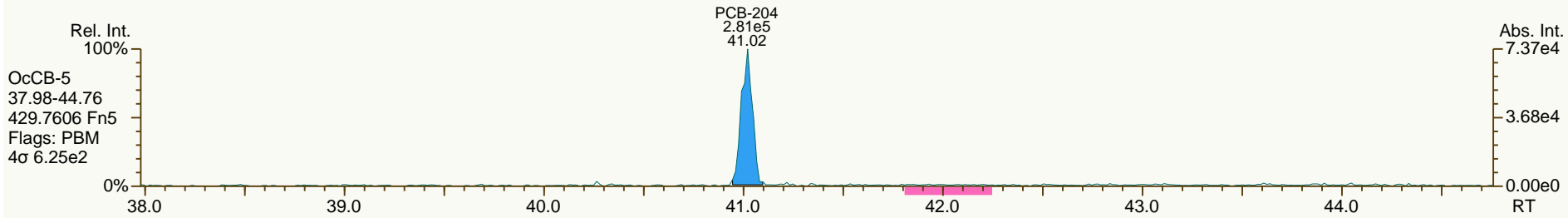
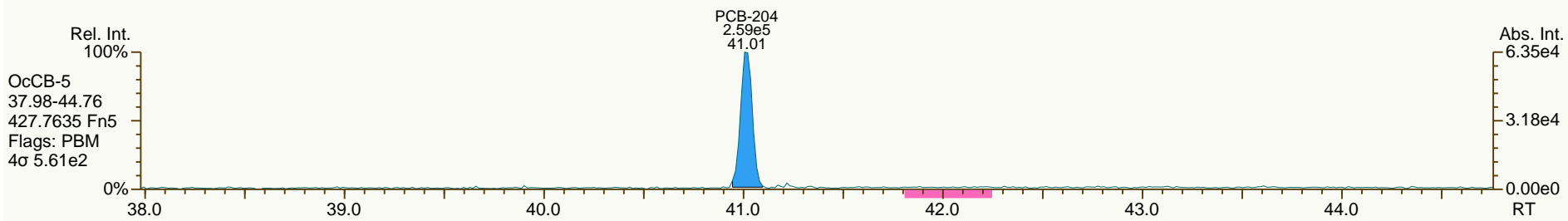
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Sample ID: SIL 13-42-1  
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SGS ID: SBS\_140402\_PCB\_XA  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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SGS ID: SBS\_140402\_PCB\_XA  
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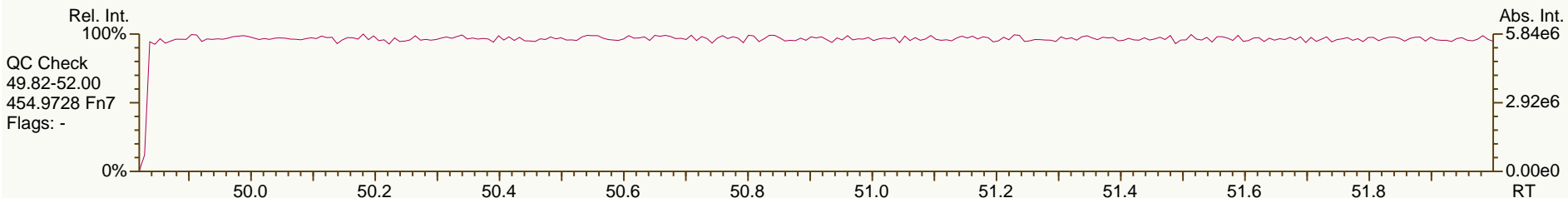
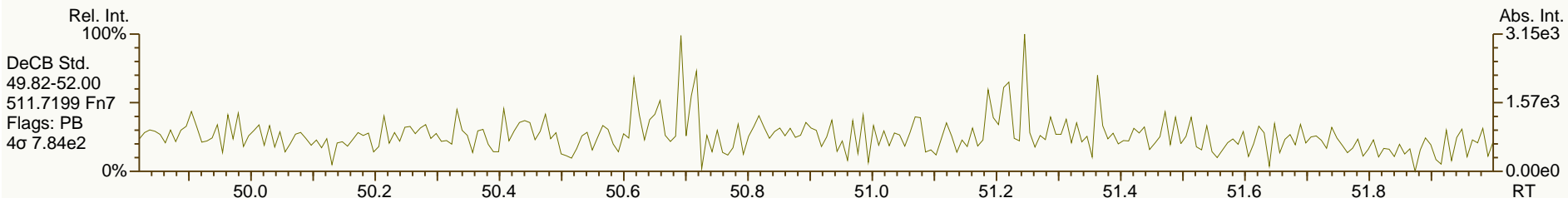
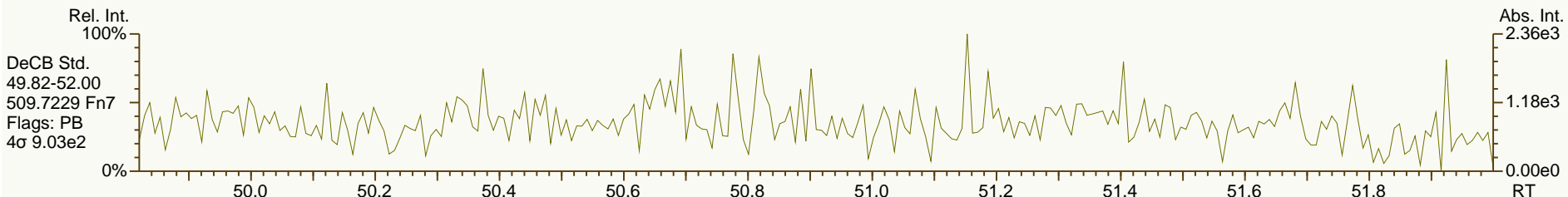
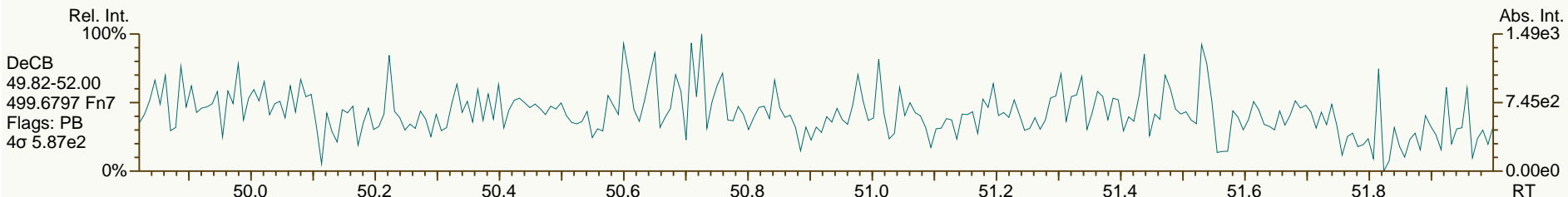
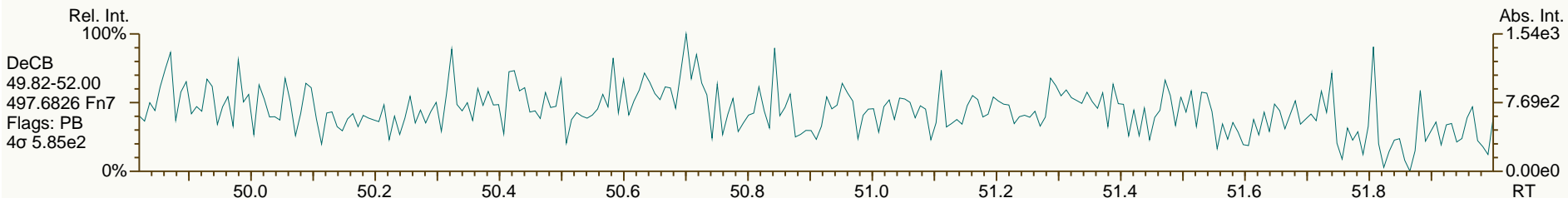
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SGS ID: SBS\_140402\_PCB\_XA  
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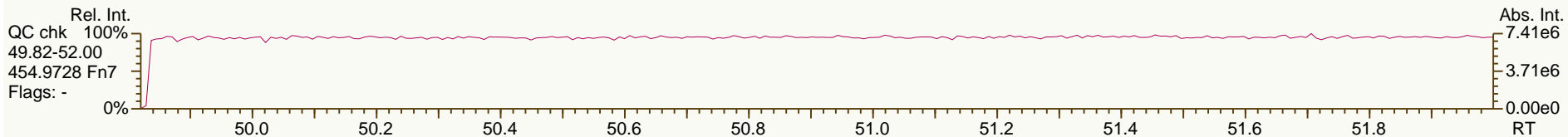
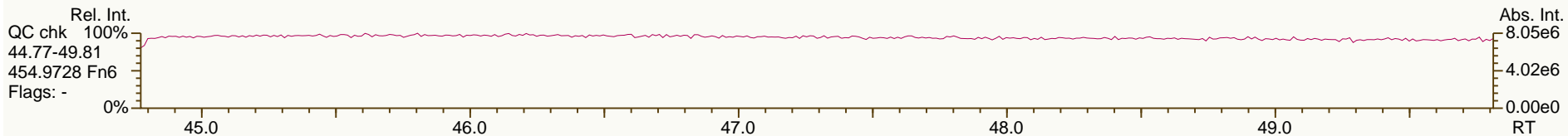
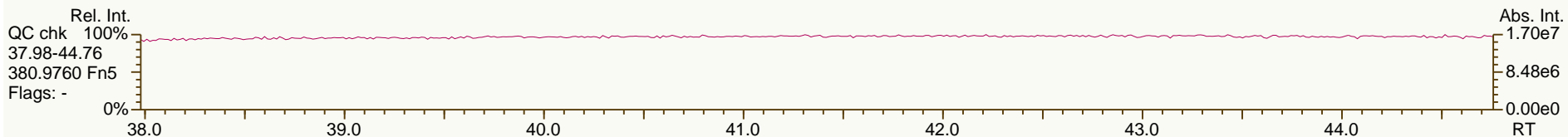
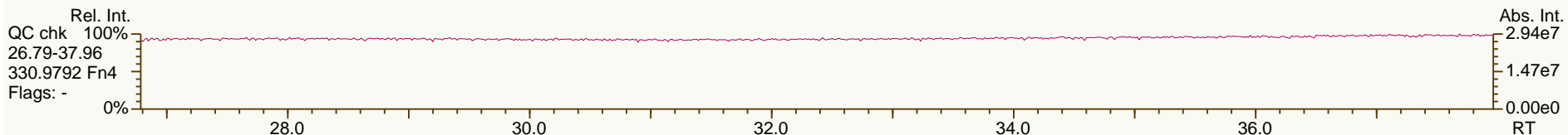
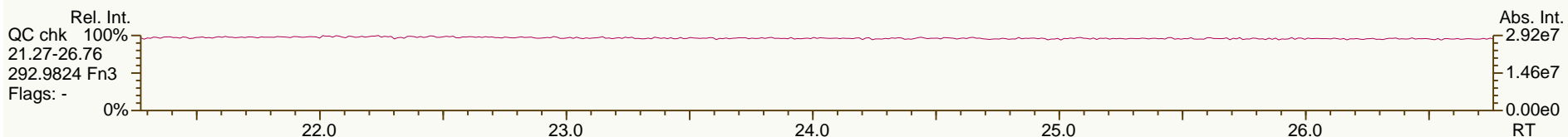
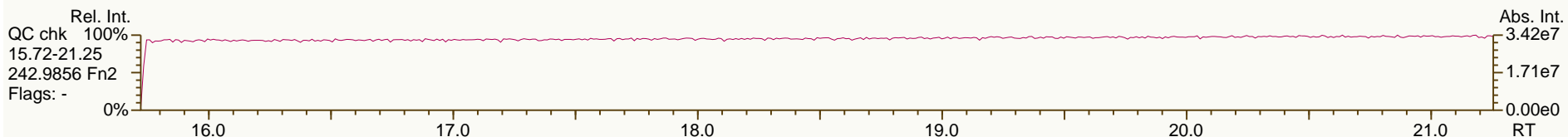
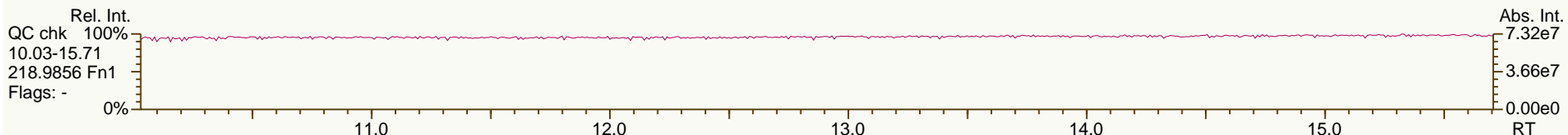
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 Instr: [ILM] AutoSpec-Premier MM7

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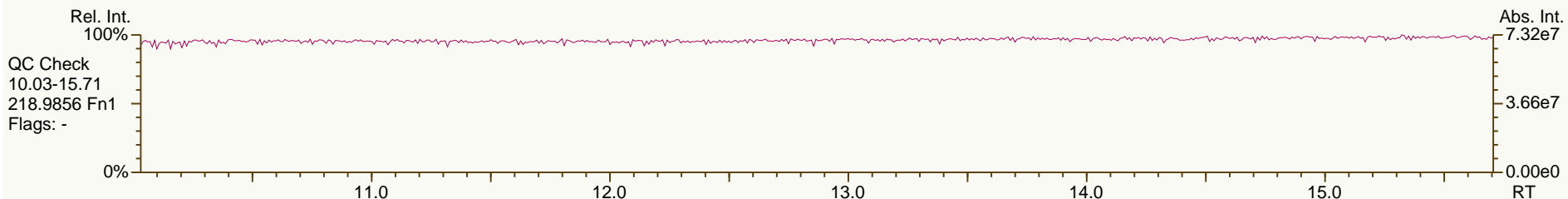
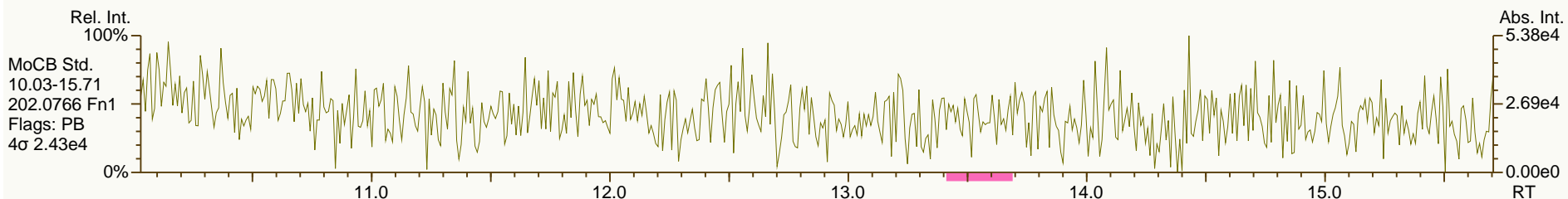
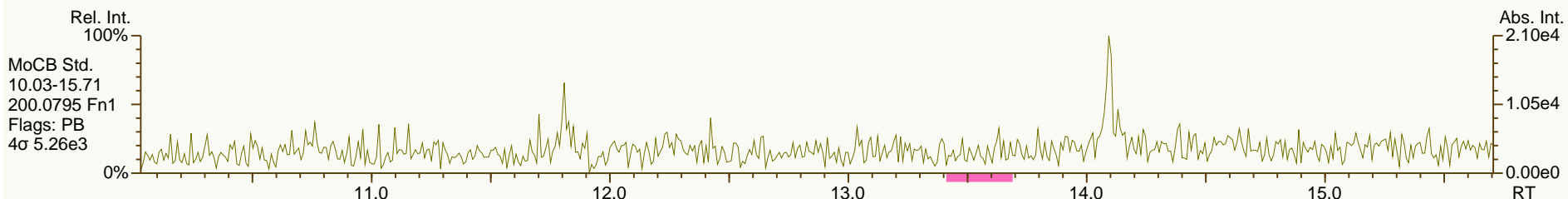
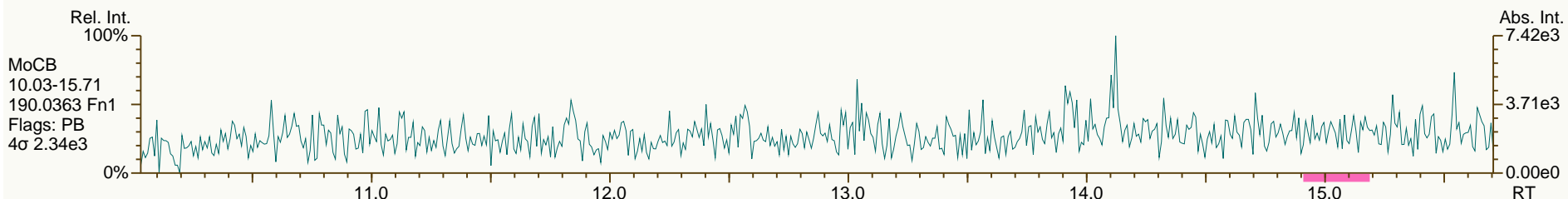
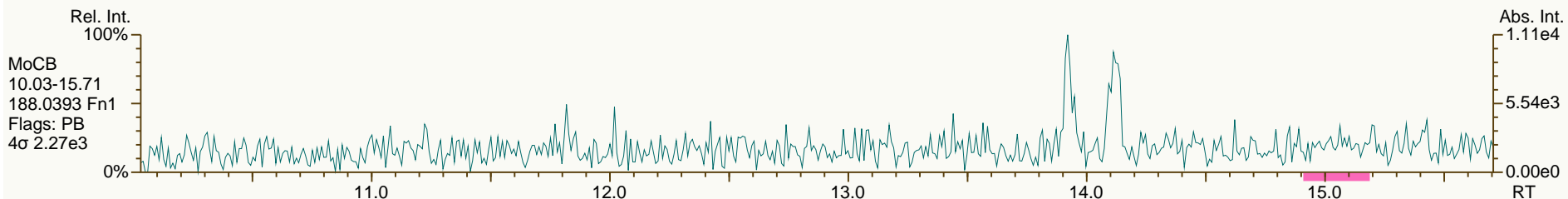




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SGS ID: SBS\_140403\_PCB\_XC  
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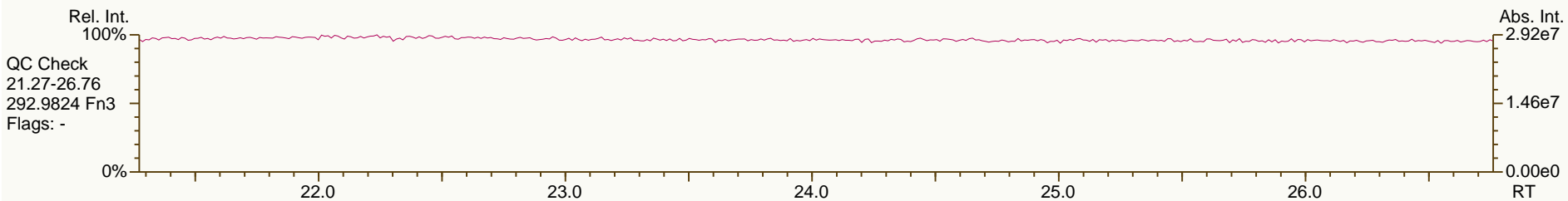
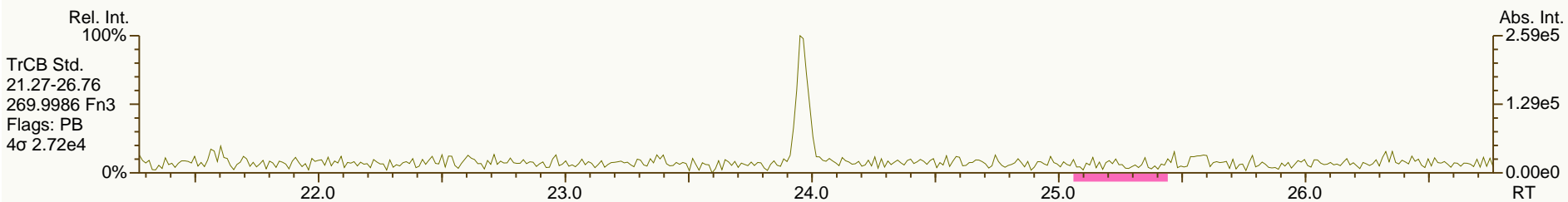
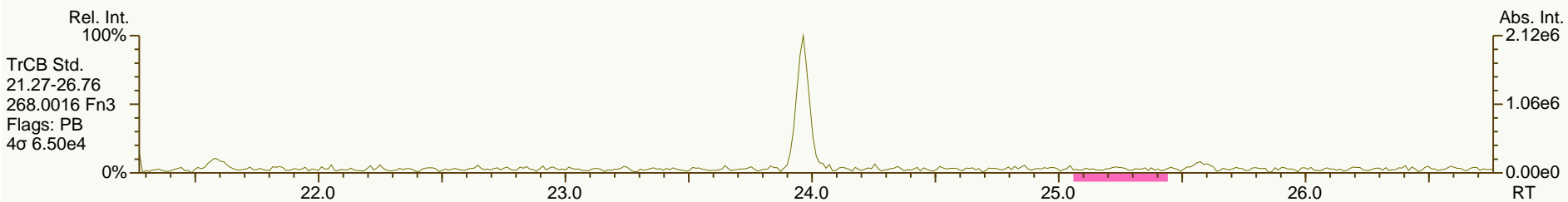
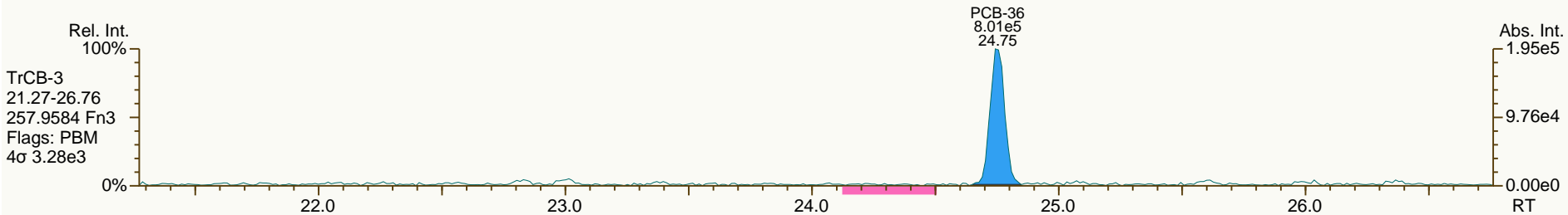
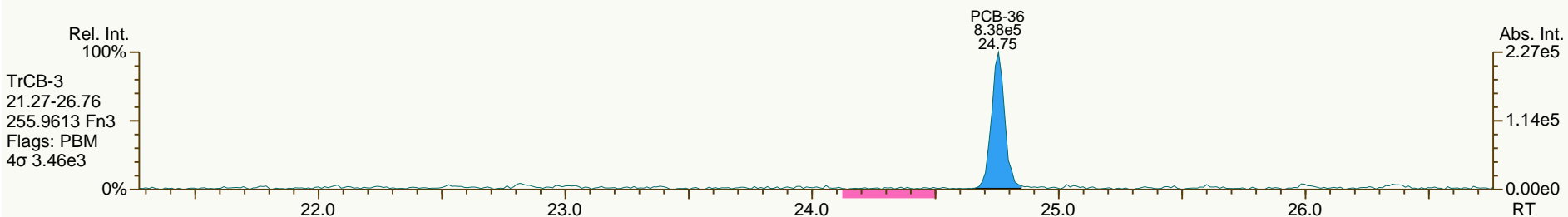
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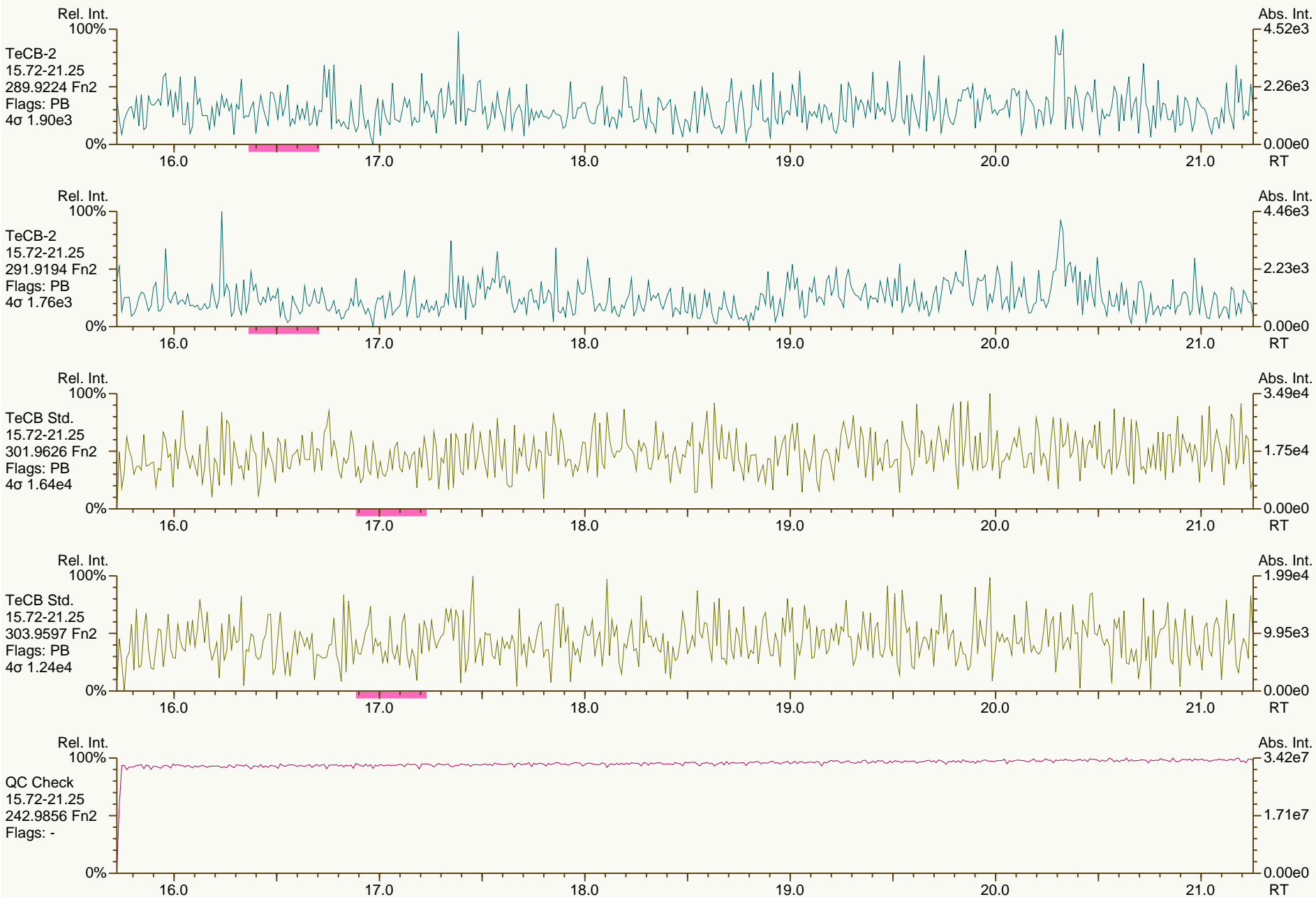
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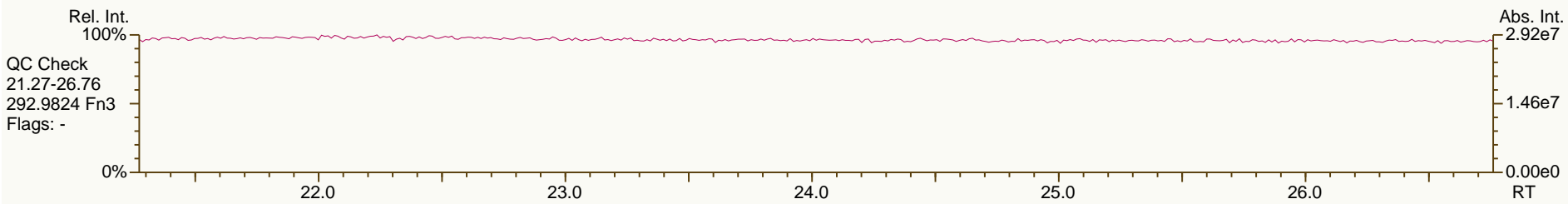
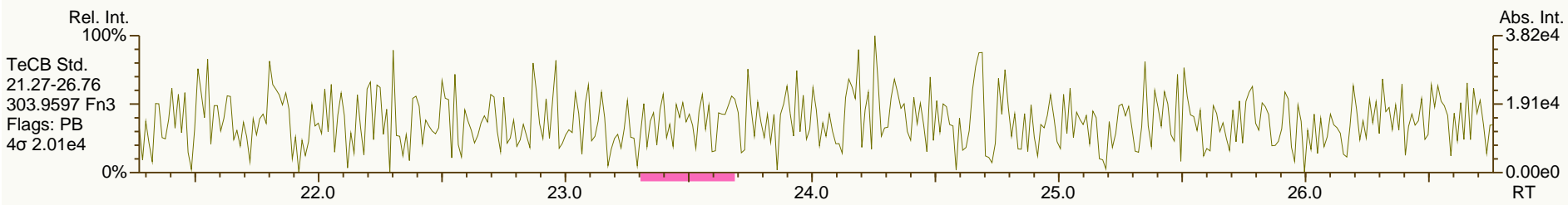
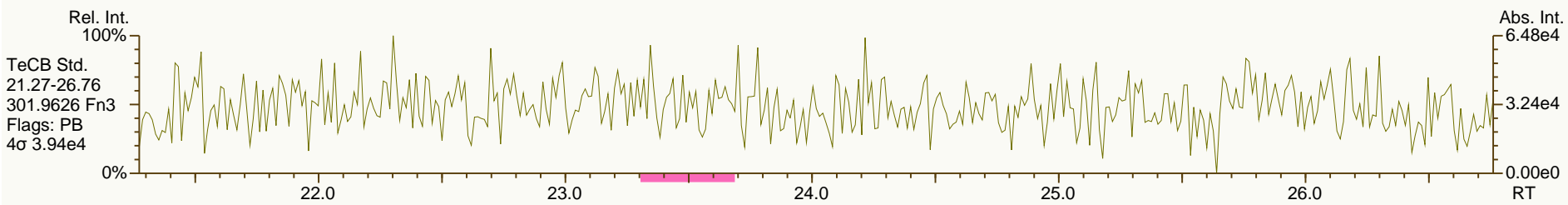
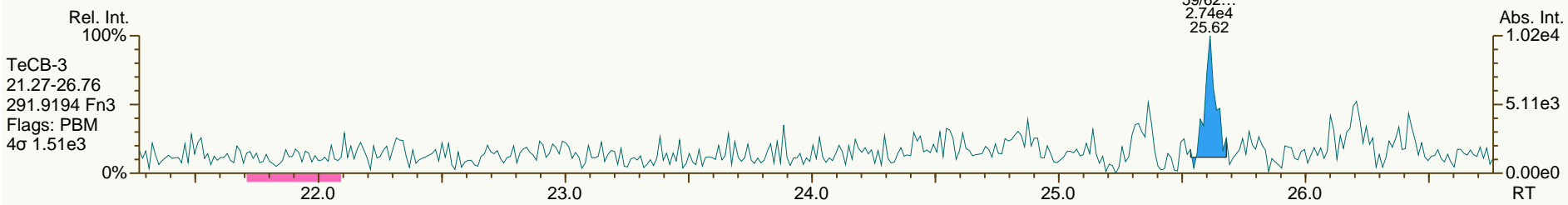
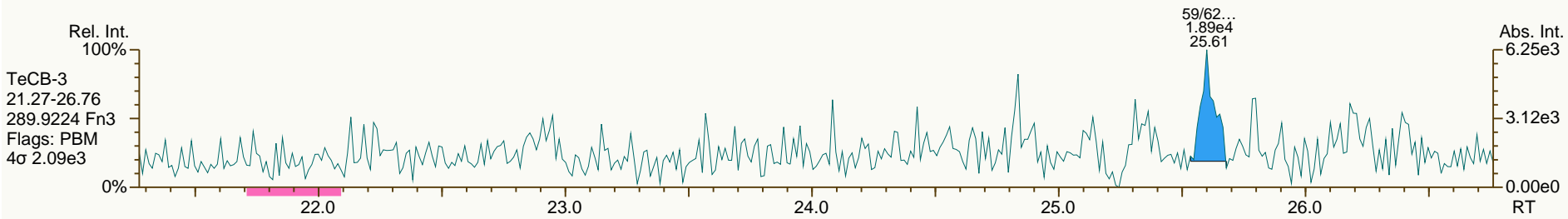
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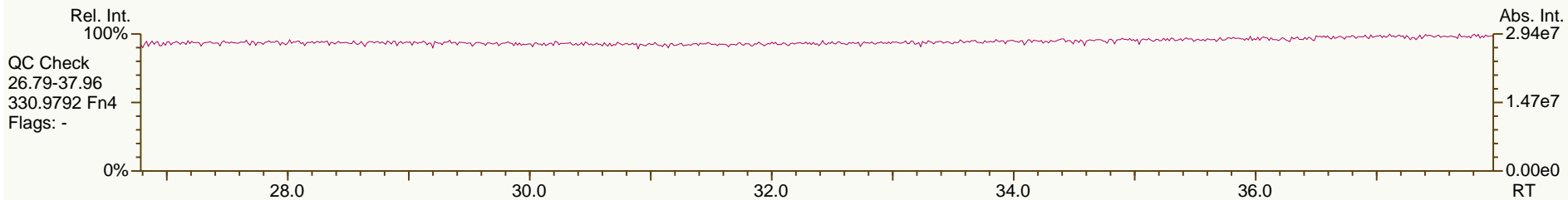
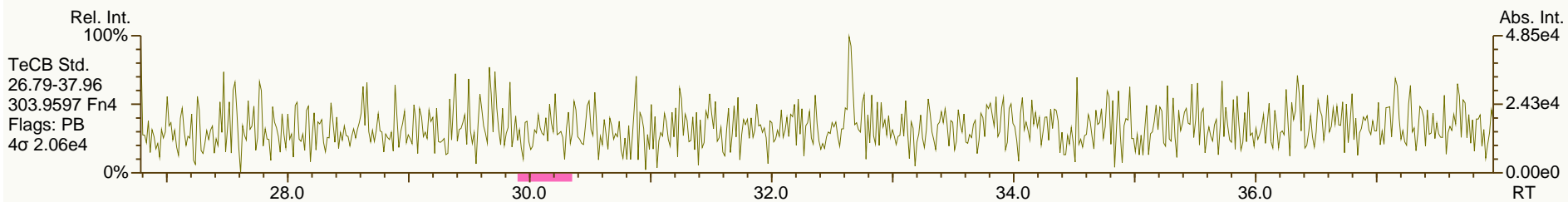
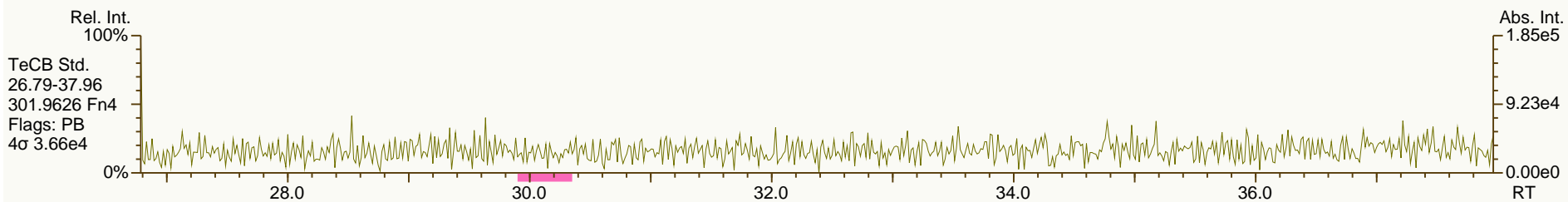
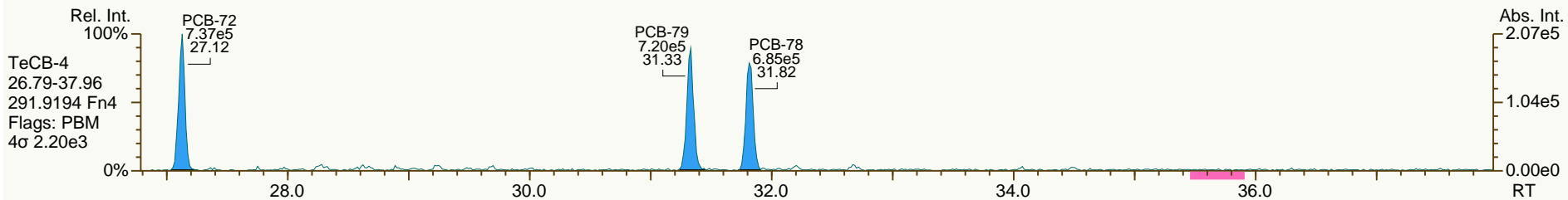
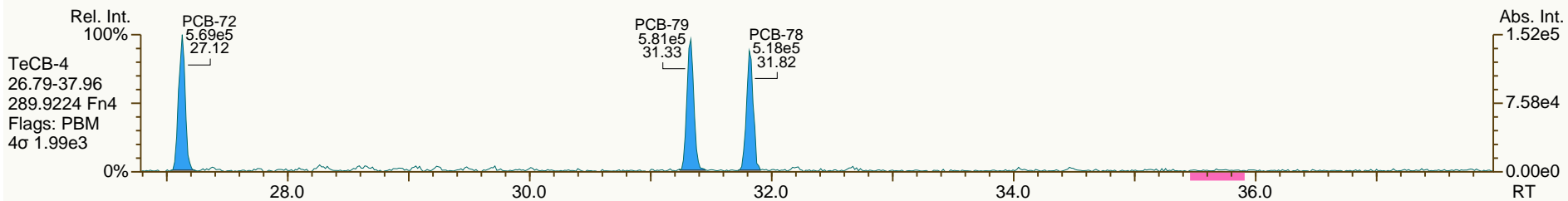
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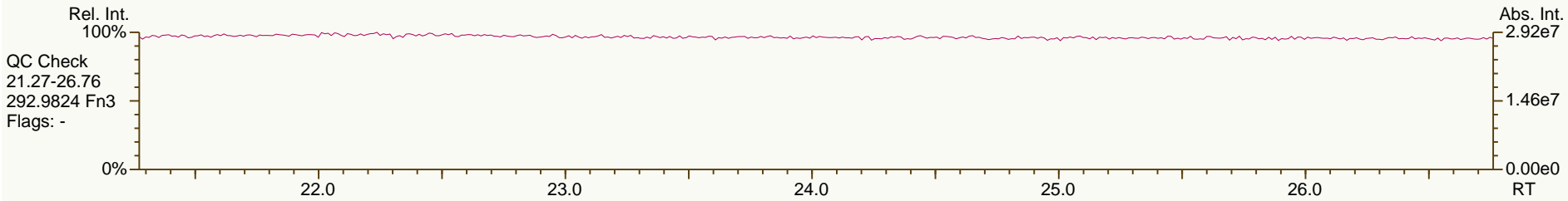
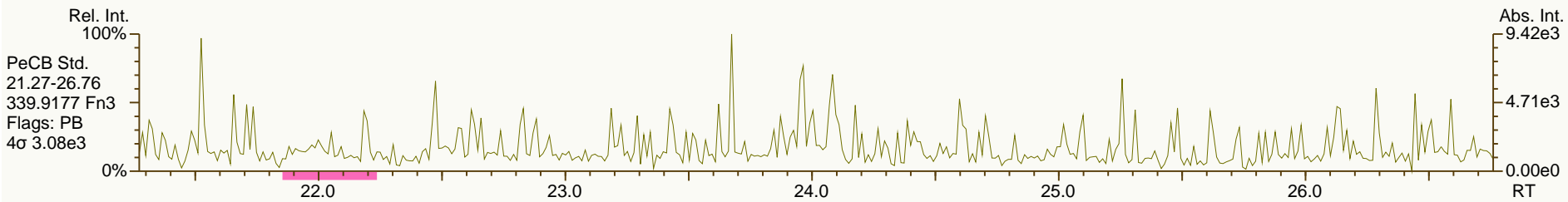
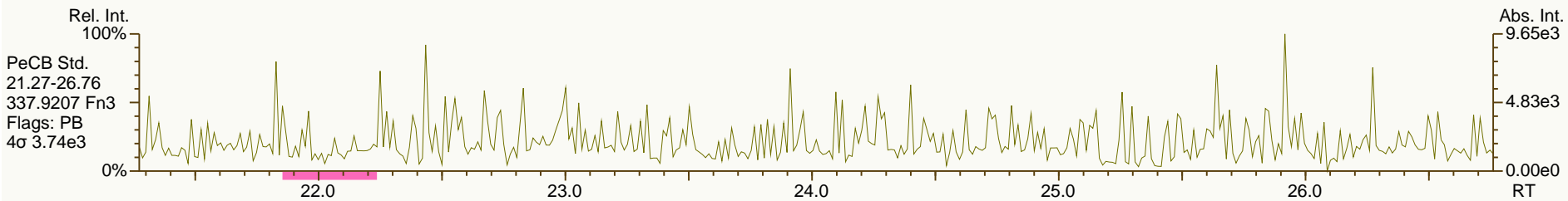
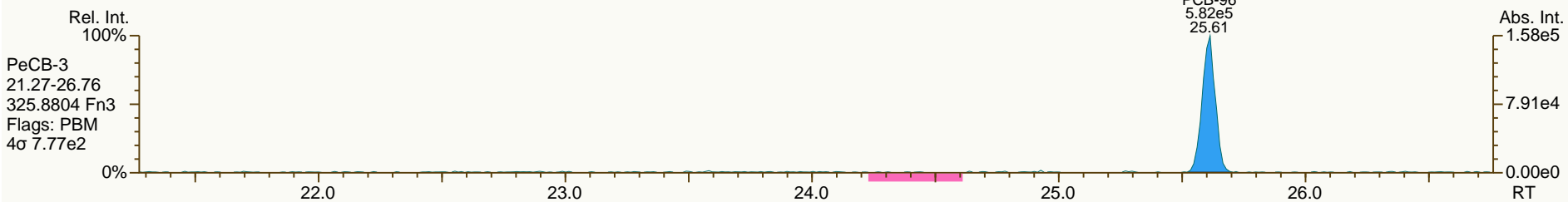
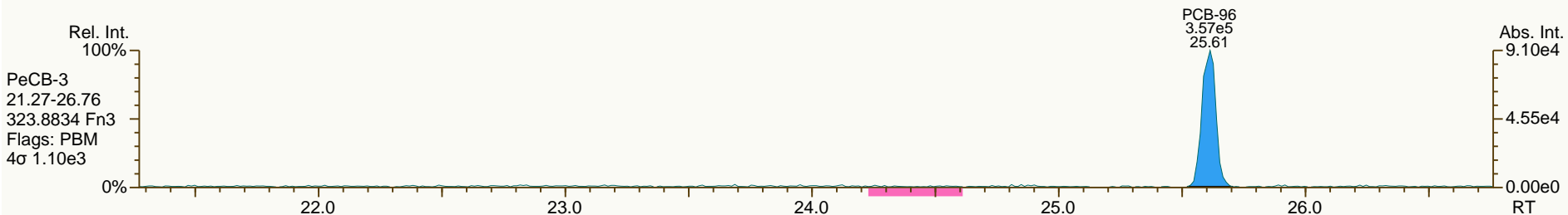




SGS ID: SBS\_140403\_PCB\_XC  
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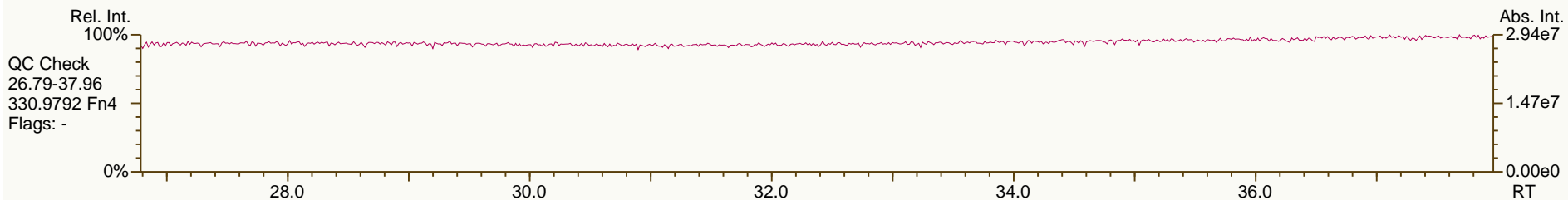
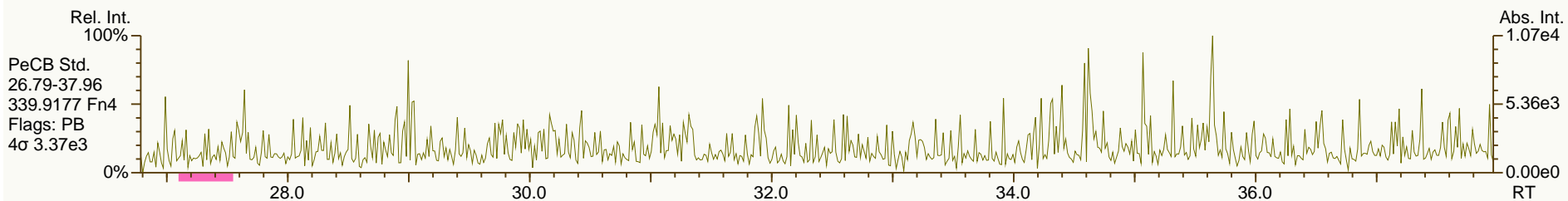
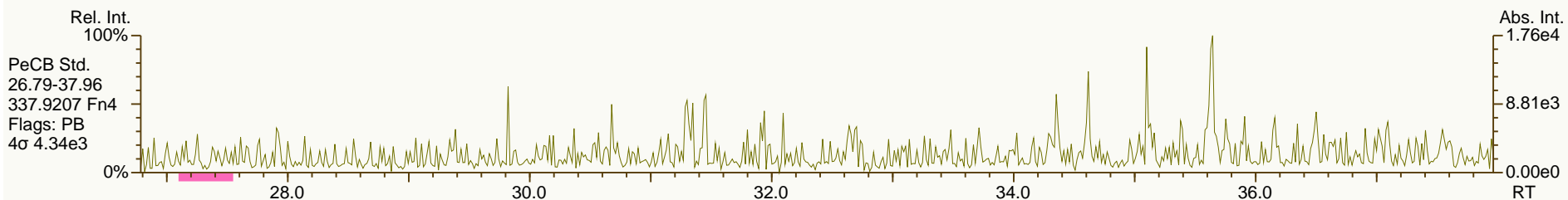
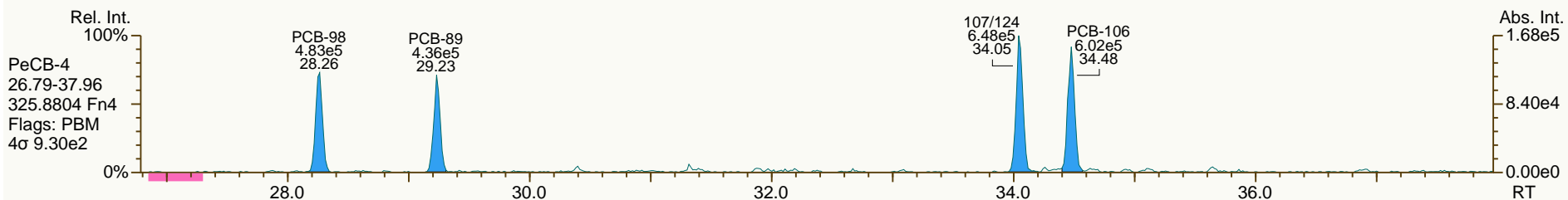
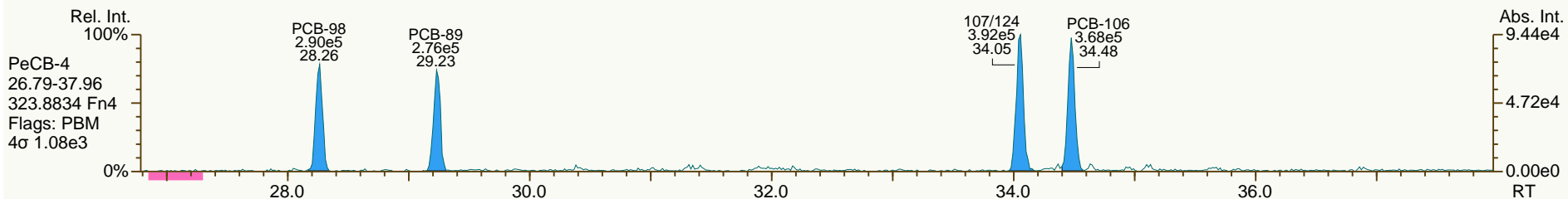
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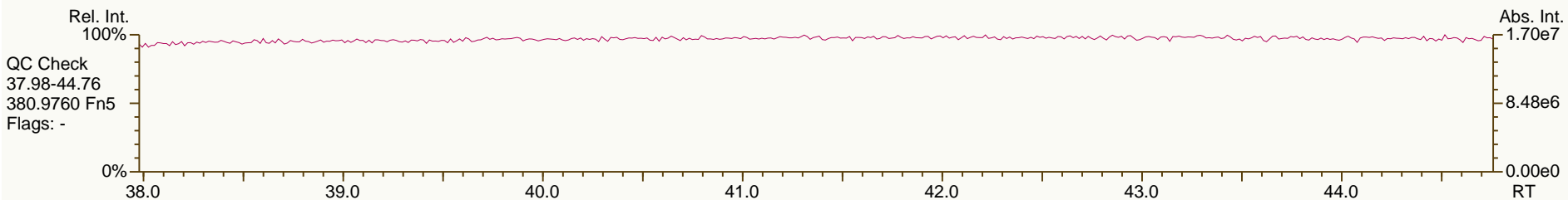
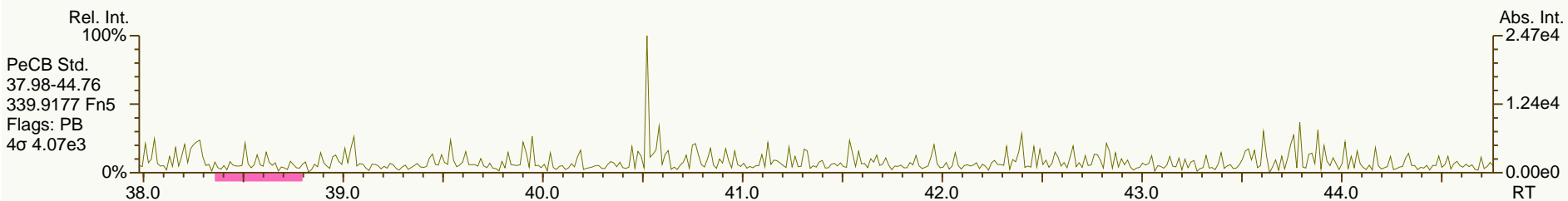
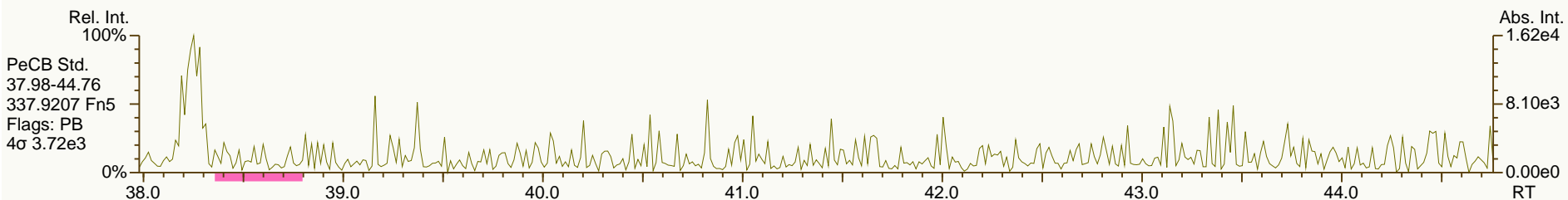
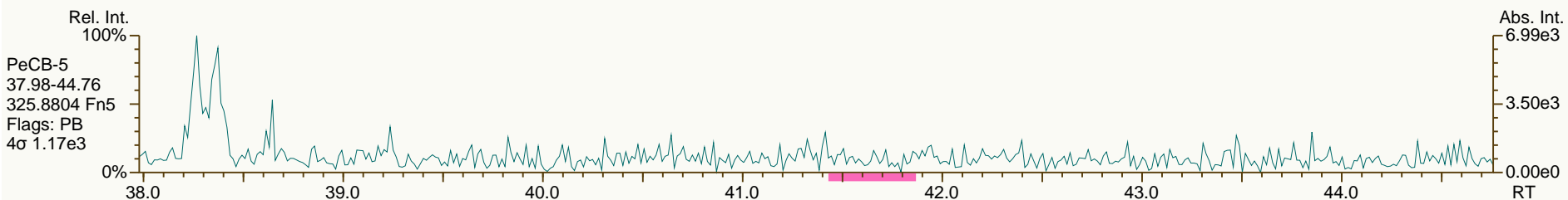
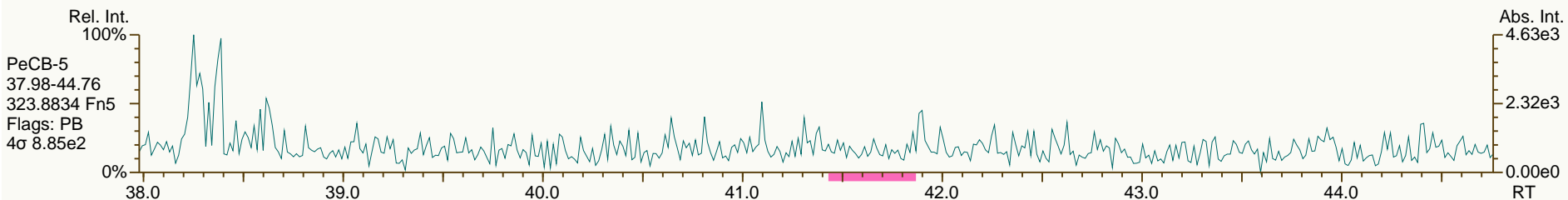
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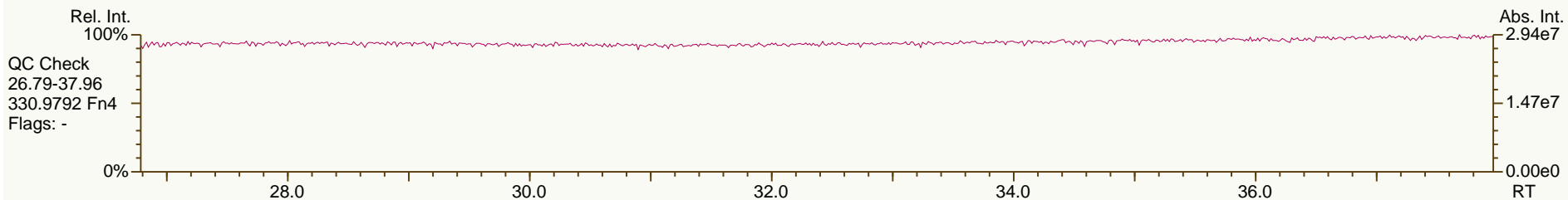
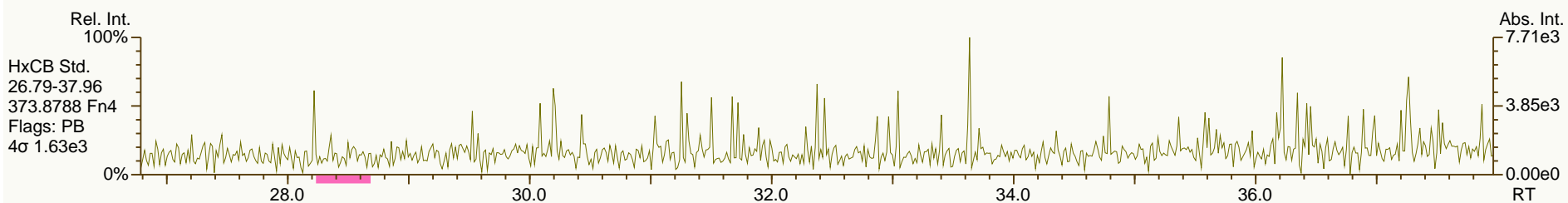
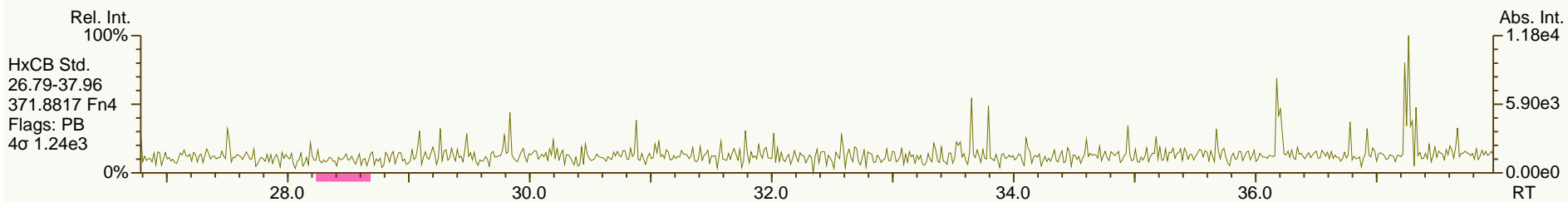
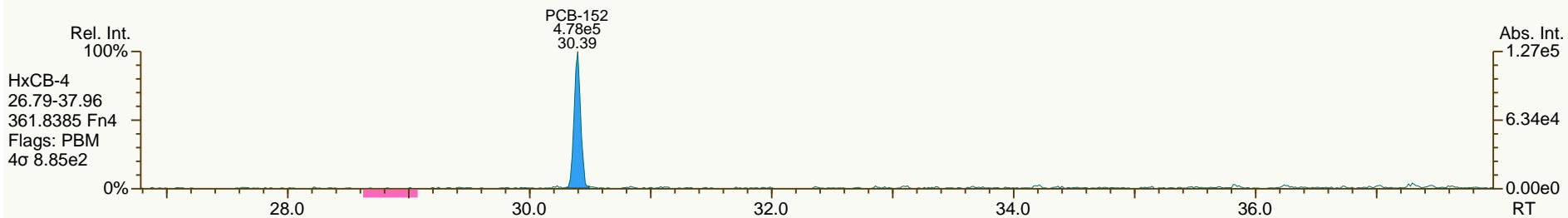
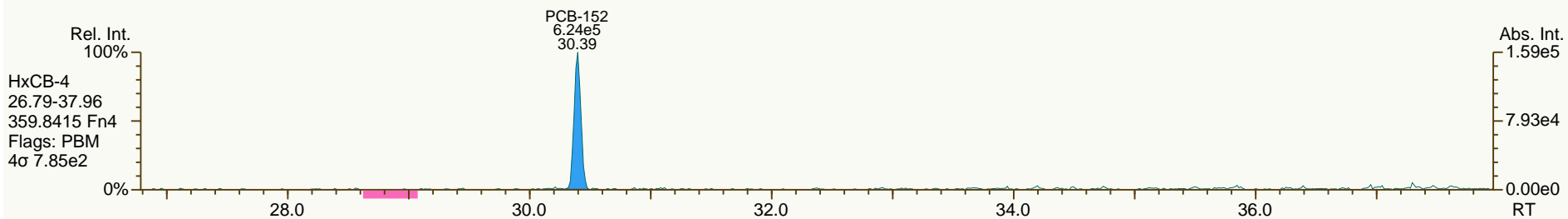
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SGS ID: SBS\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
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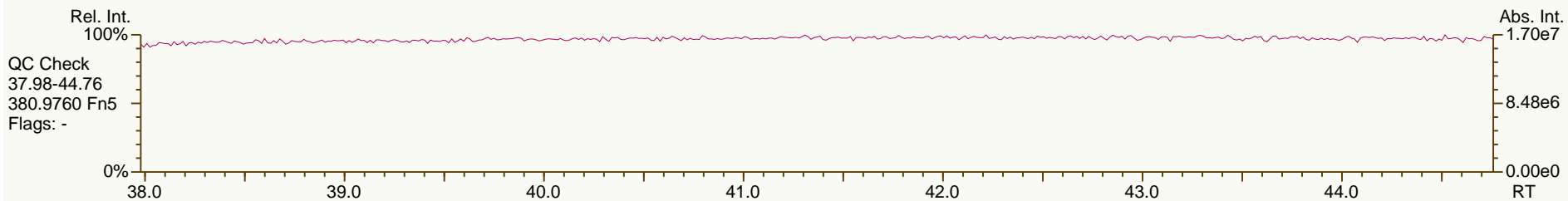
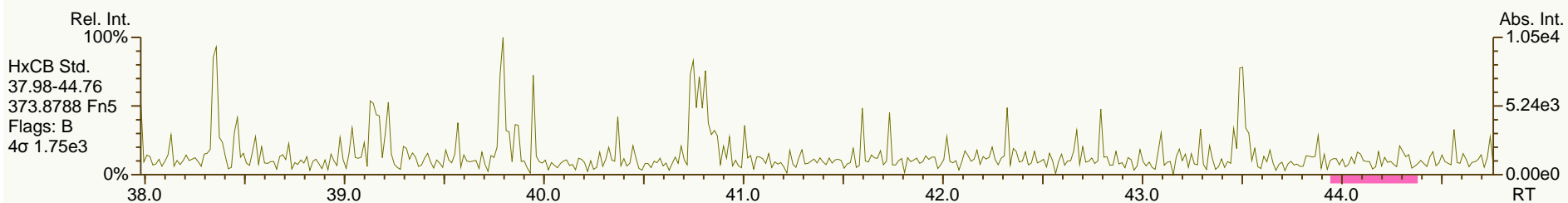
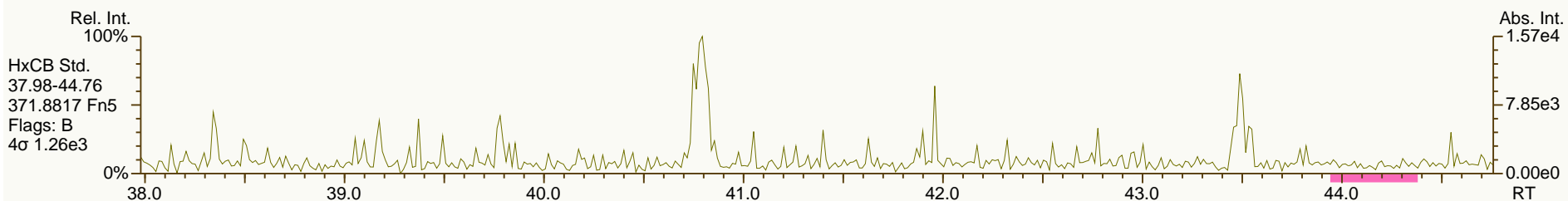
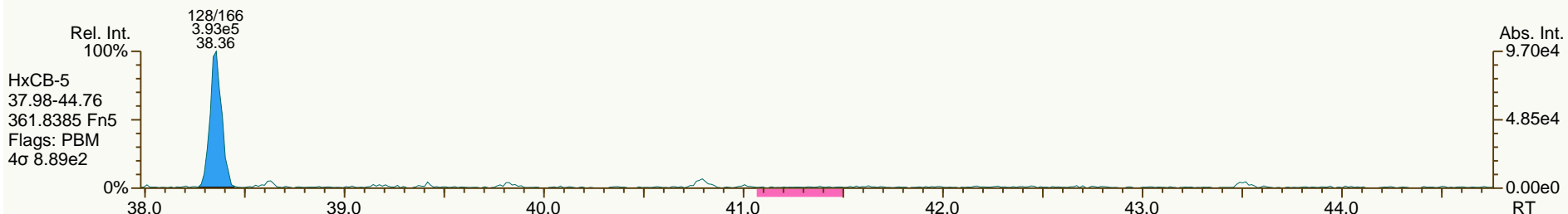
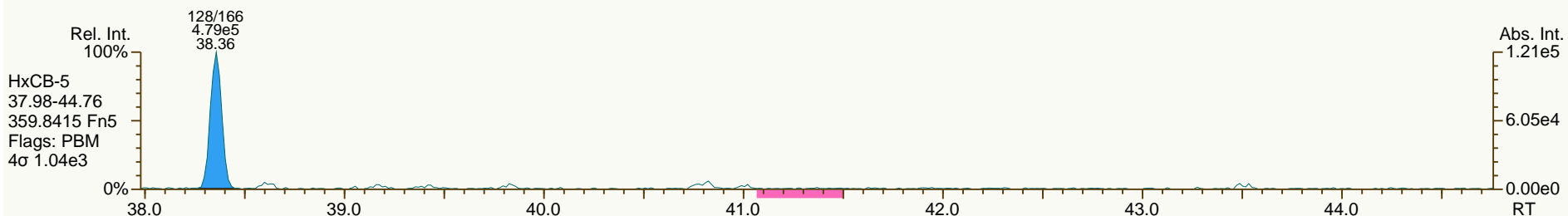
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SGS ID: SBS\_140403\_PCB\_XC  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: SIL 13-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

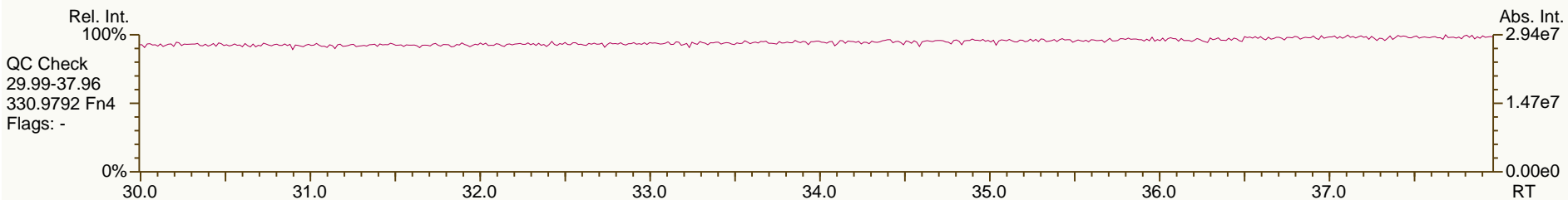
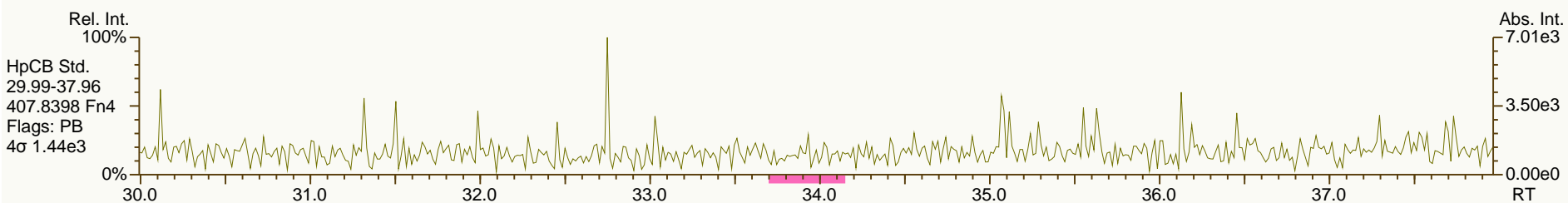
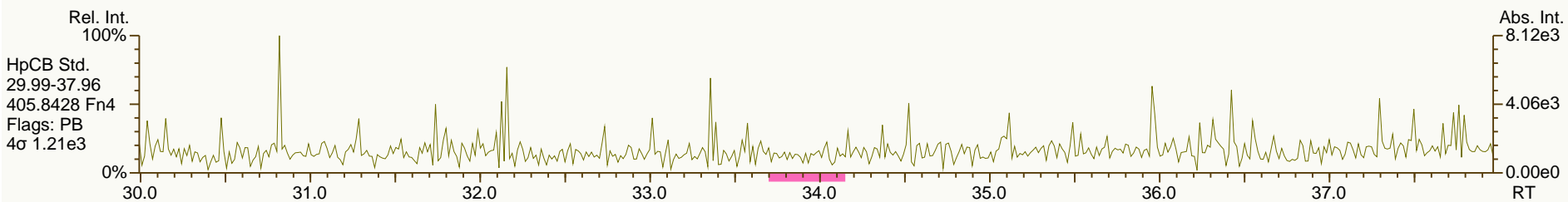
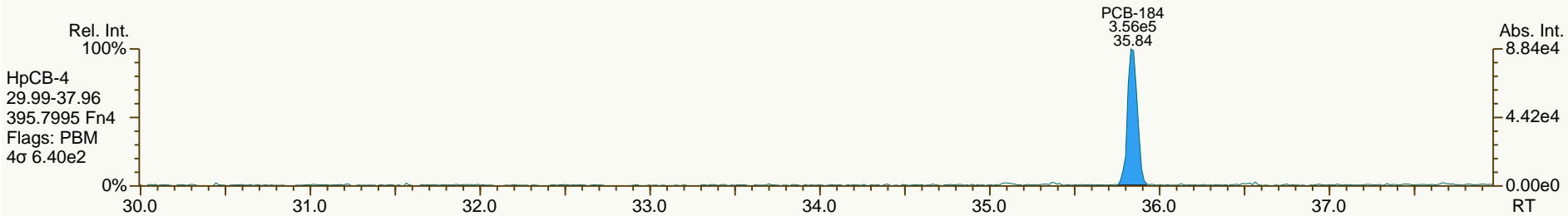
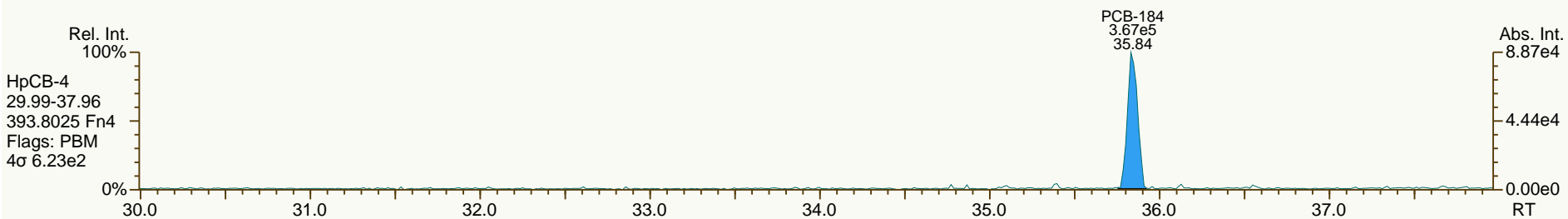
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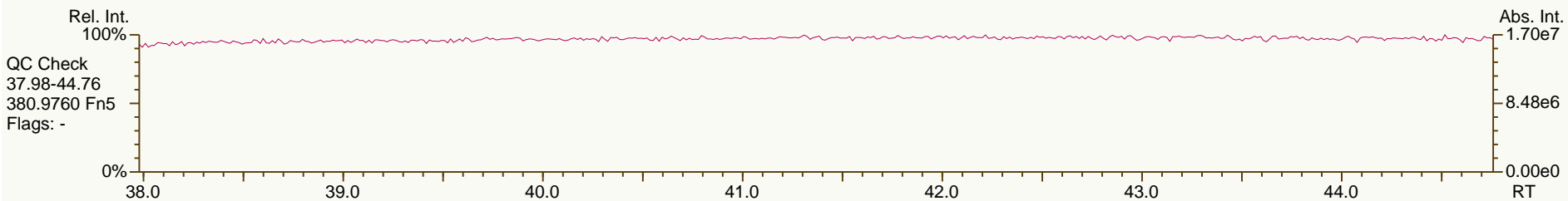
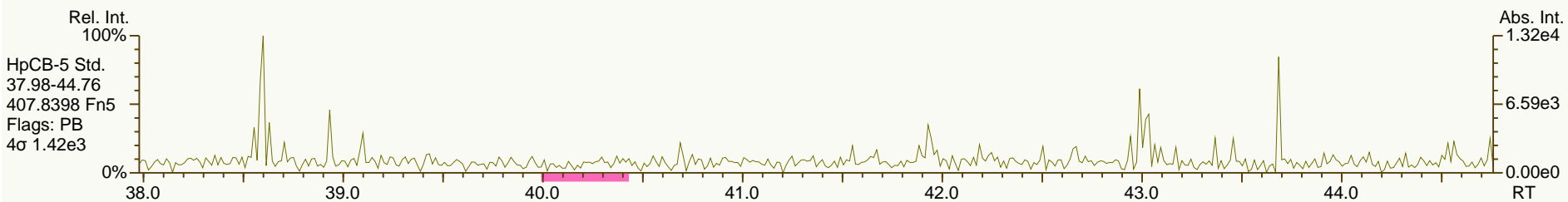
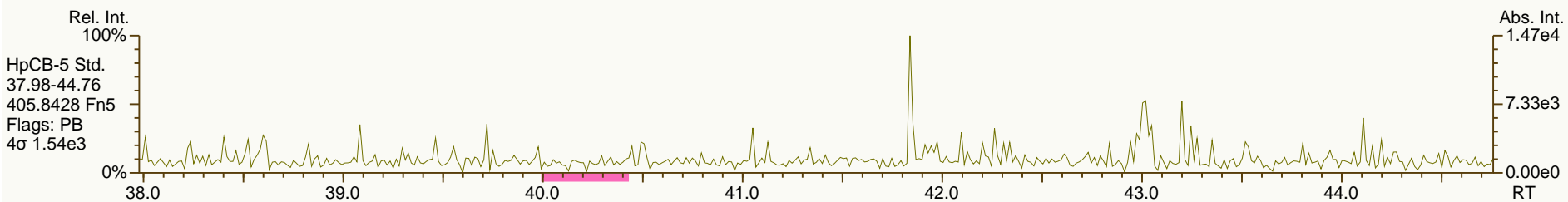
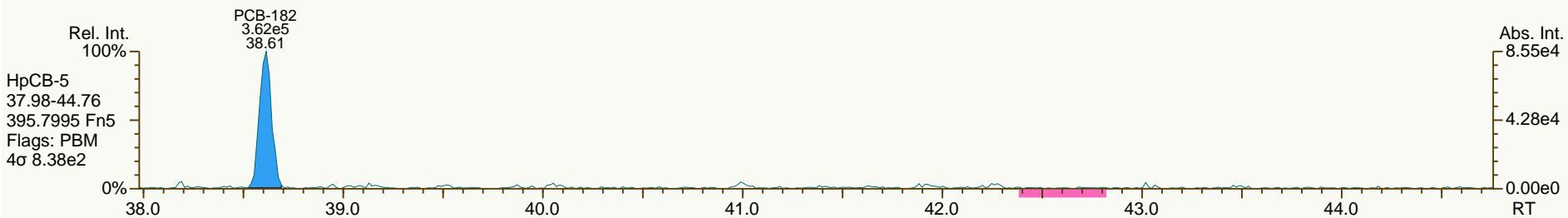
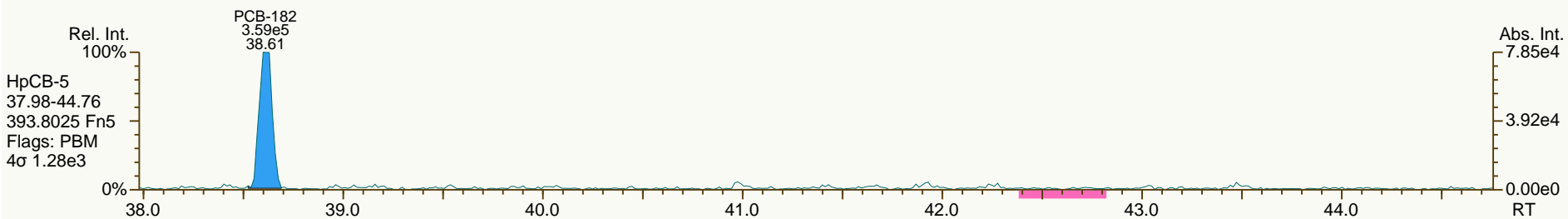
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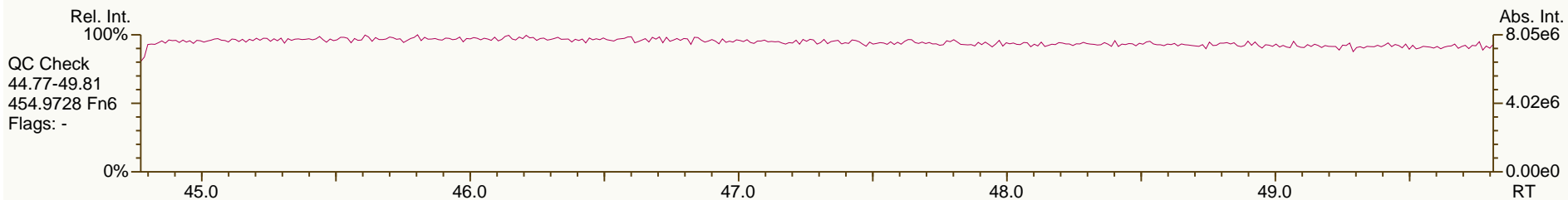
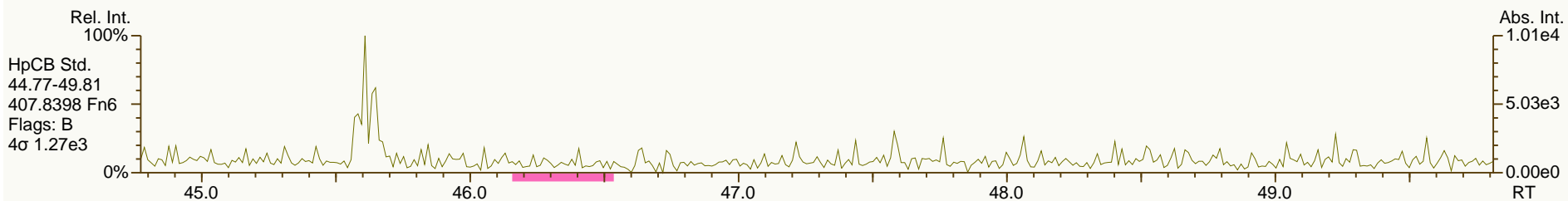
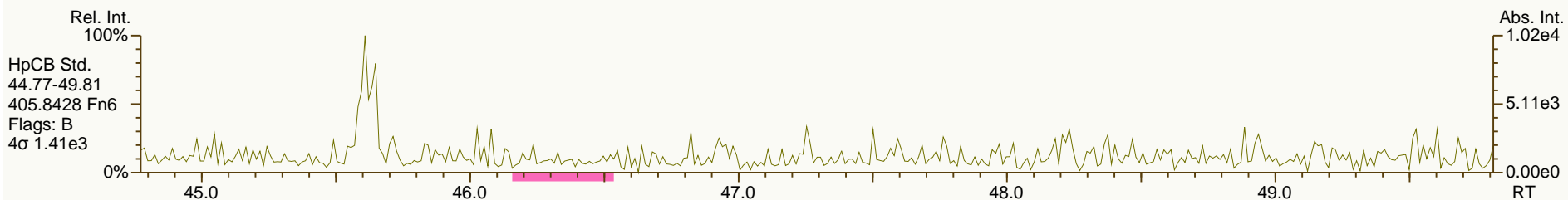
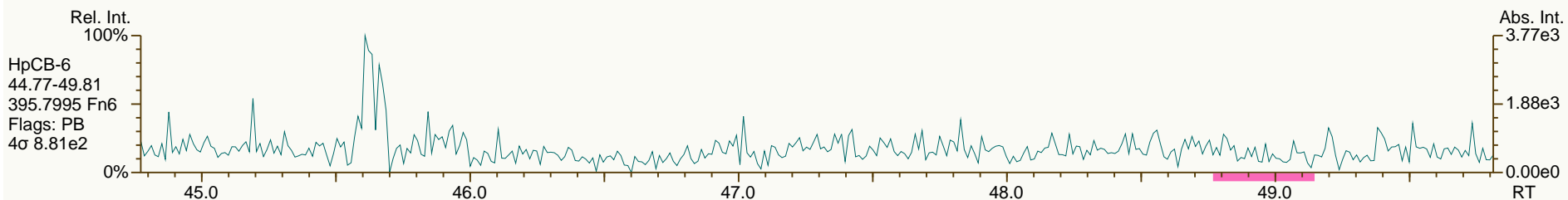
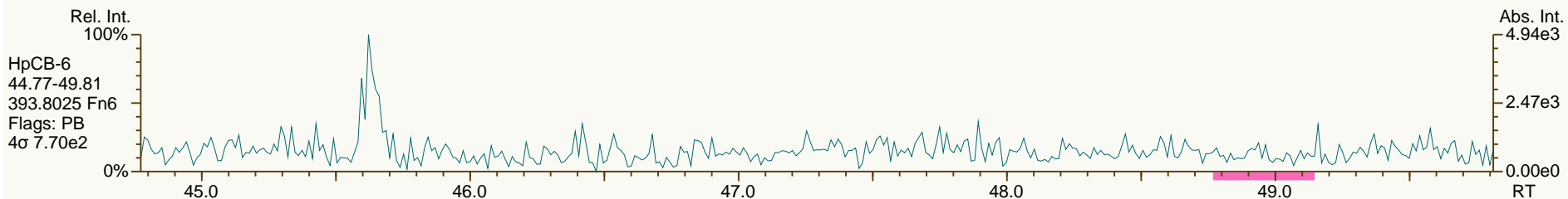
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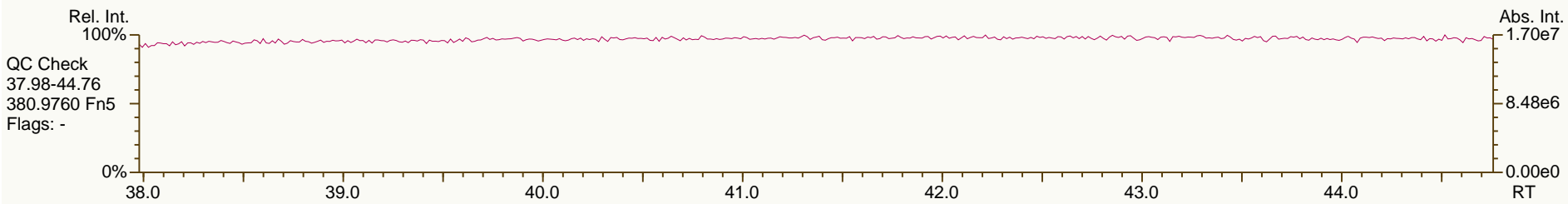
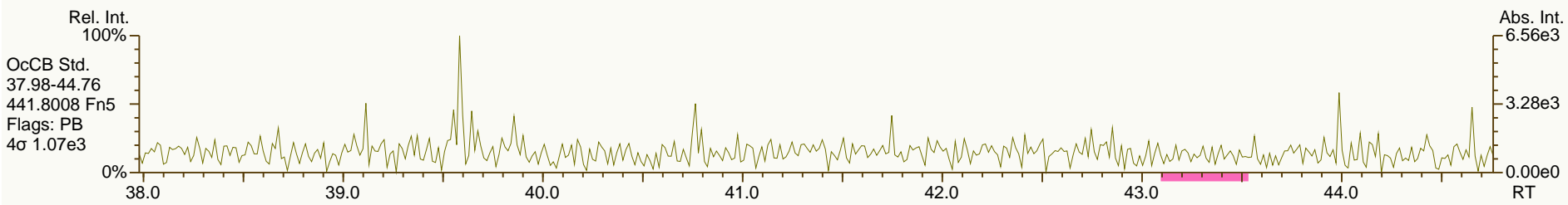
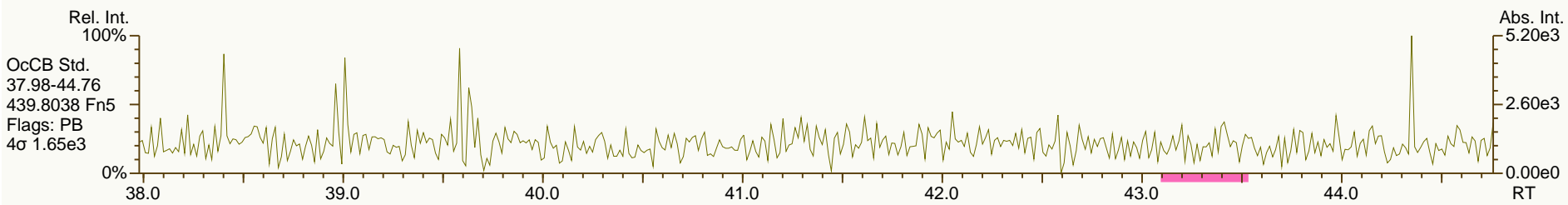
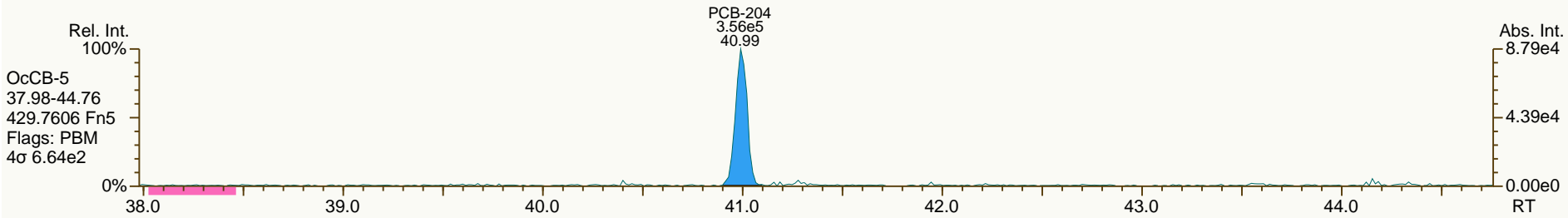
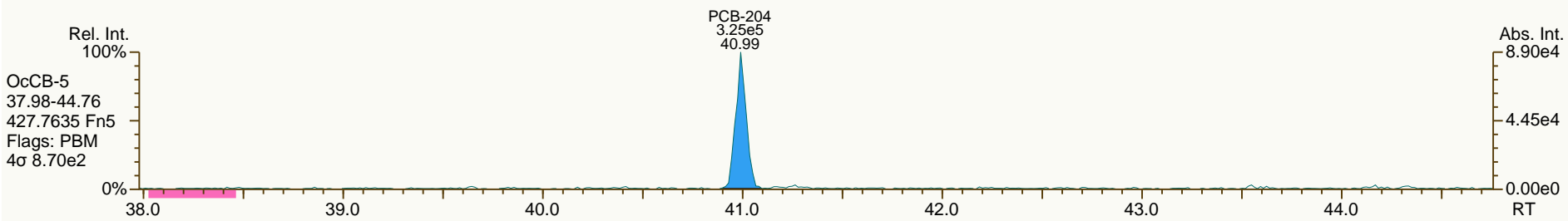




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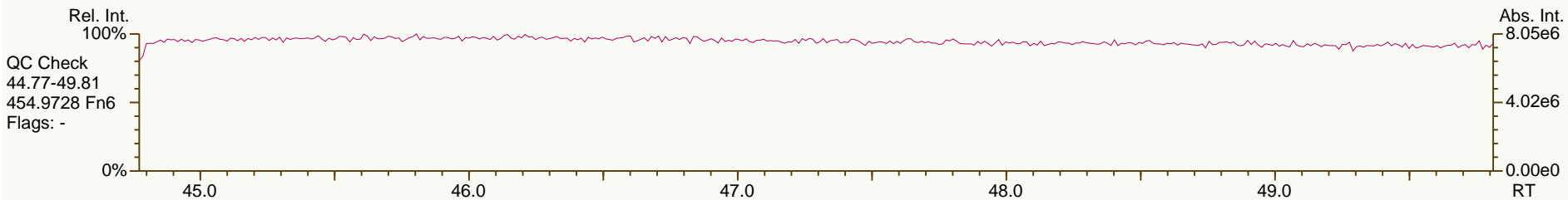
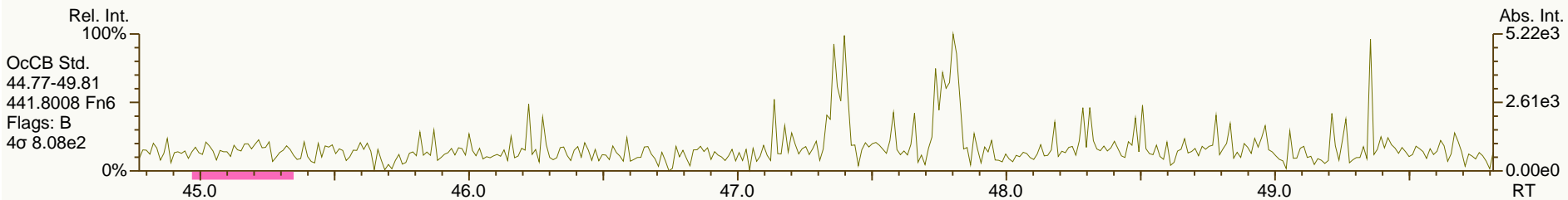
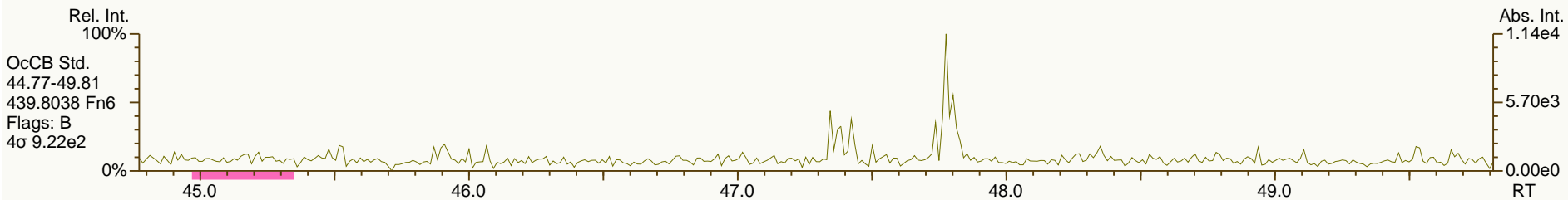
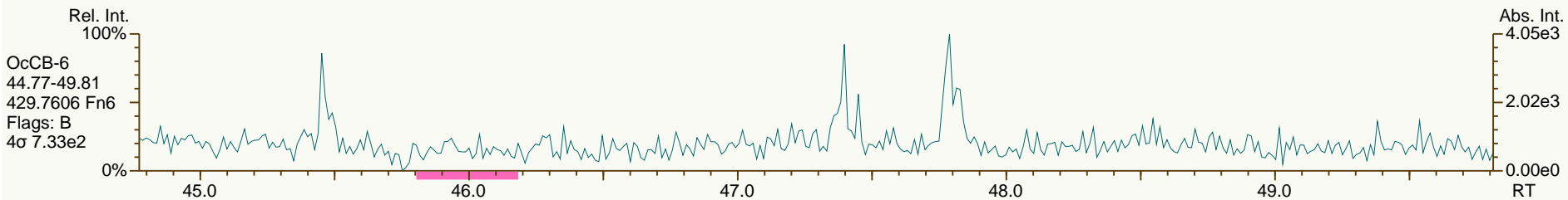
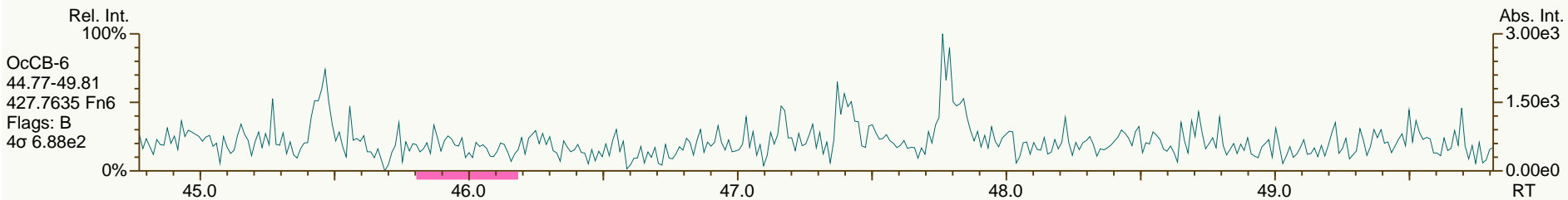
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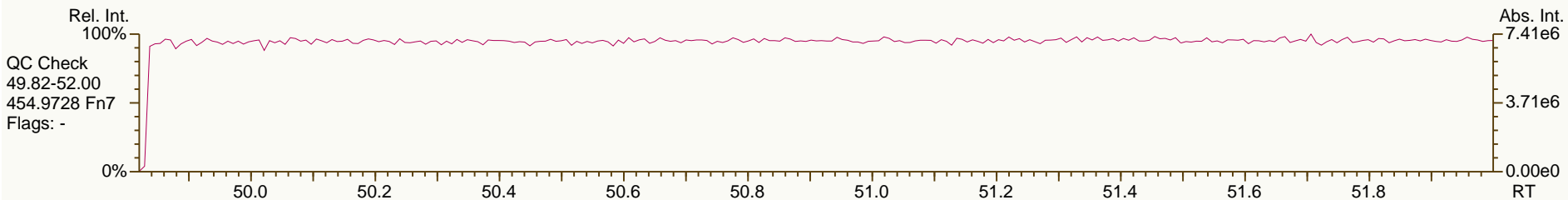
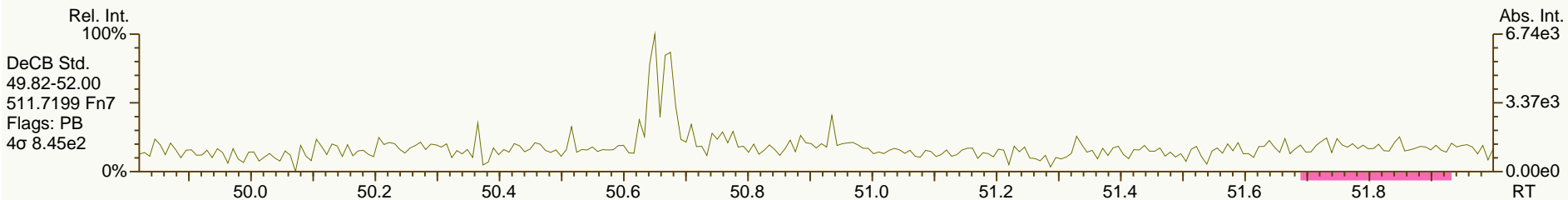
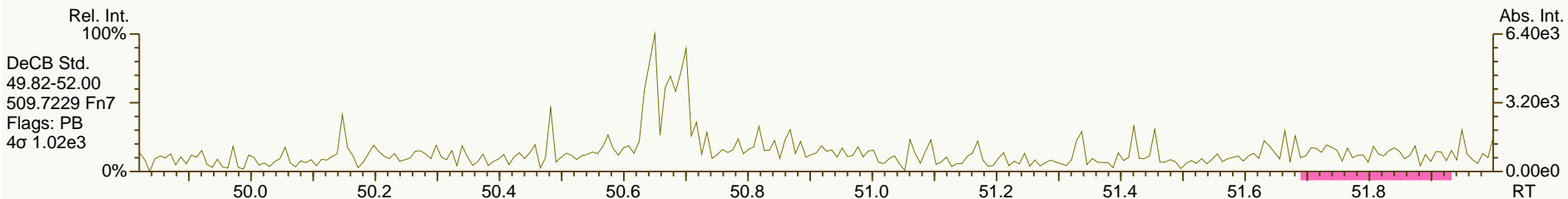
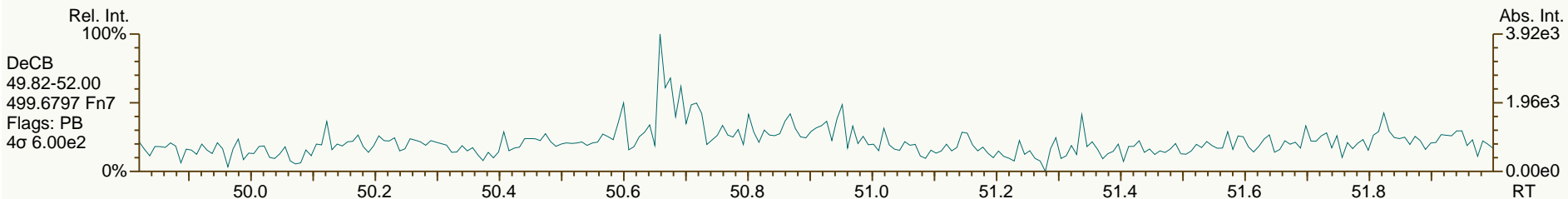
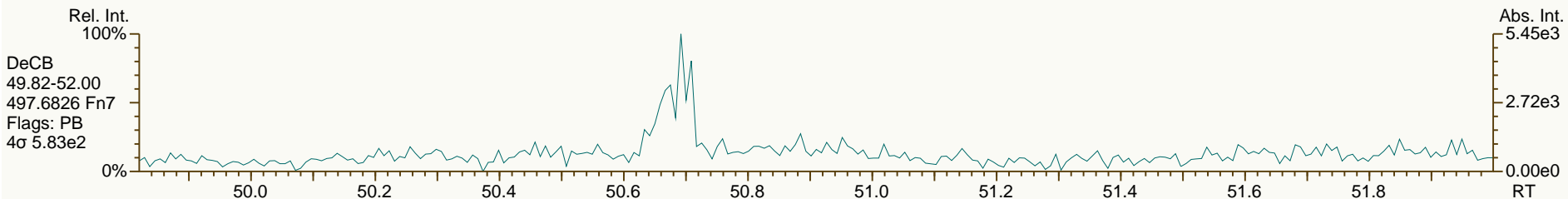
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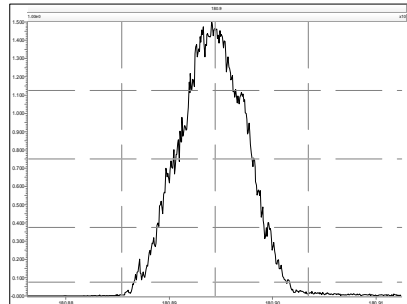
## Resolution Check Report

MassLynx 4.1 SCN 881

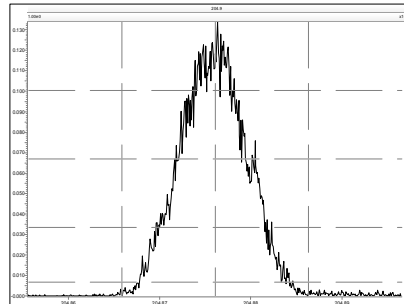
Page 1 of 5

Printed: Tuesday, April 01, 2014 23:29:09 Eastern Daylight Time

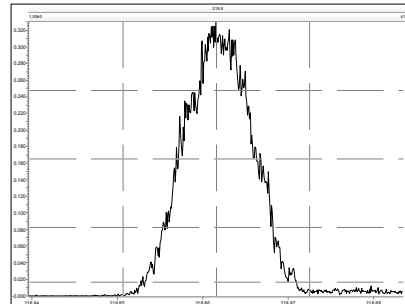
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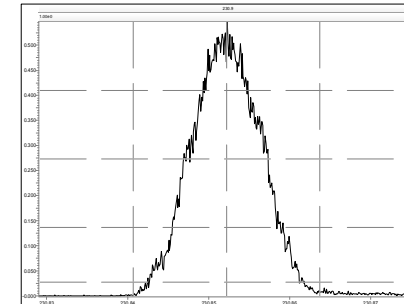
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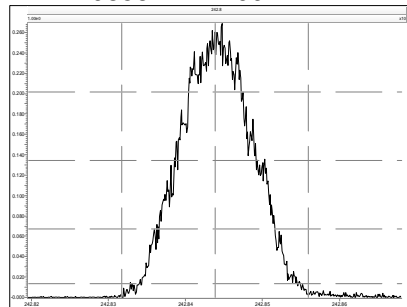
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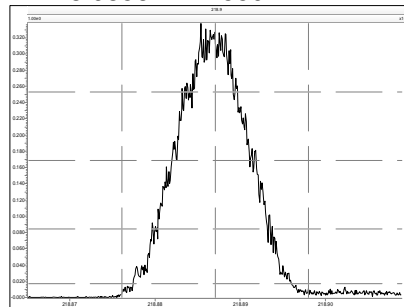
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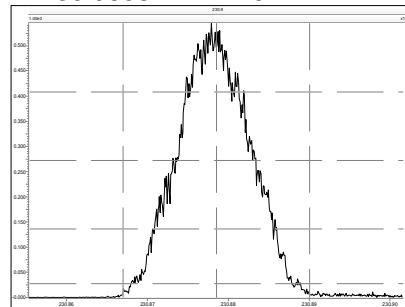
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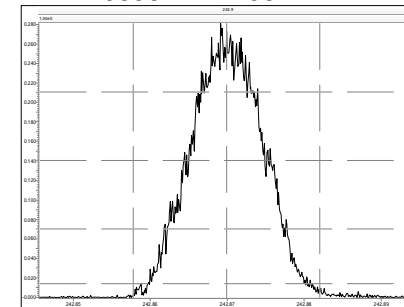
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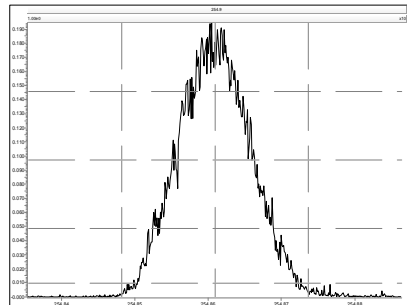
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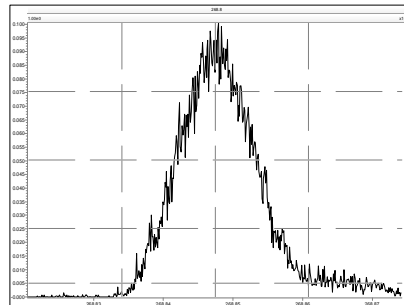
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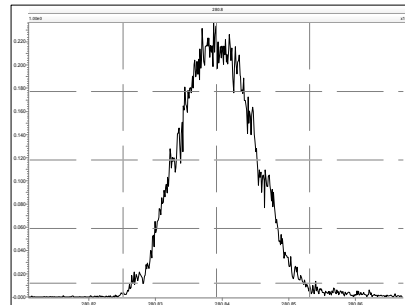
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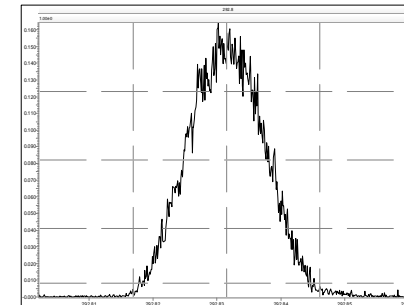
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M 280.9824 R 11186



M 292.9824 R 11312



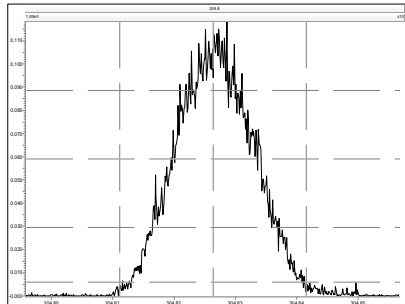
## Resolution Check Report

MassLynx 4.1 SCN 881

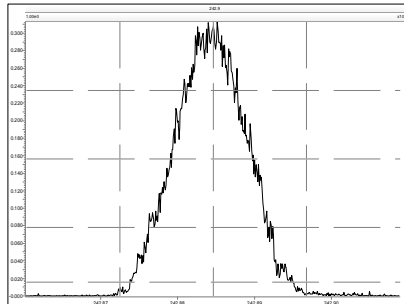
Page 2 of 5

Printed: Tuesday, April 01, 2014 23:29:09 Eastern Daylight Time

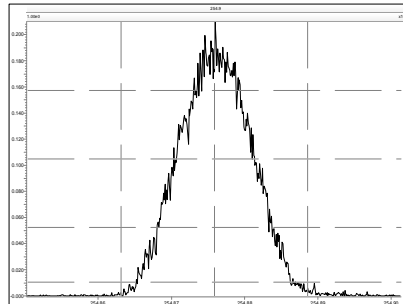
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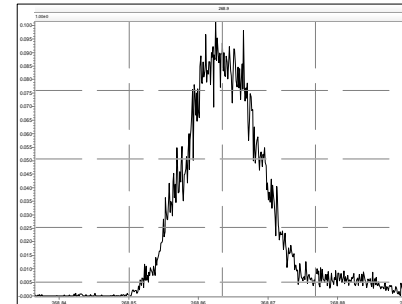
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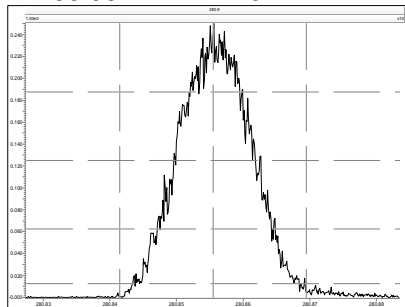
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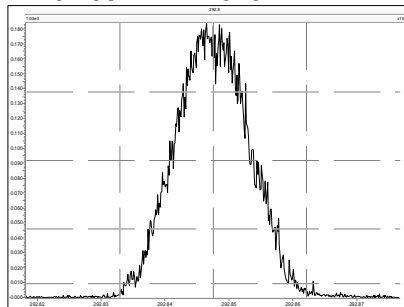
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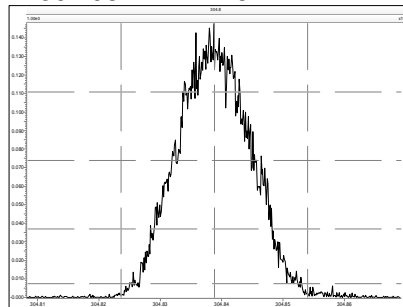
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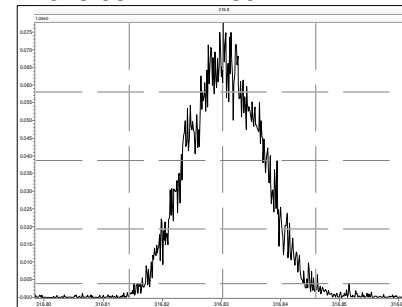
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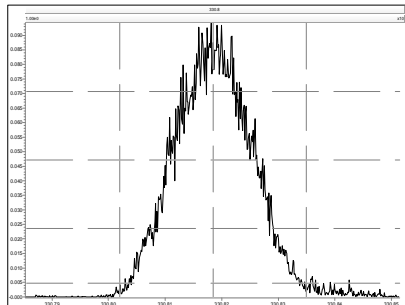
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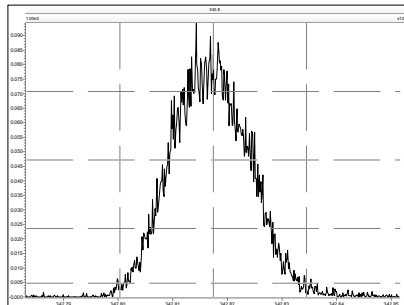
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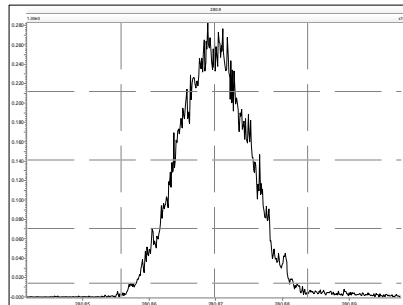
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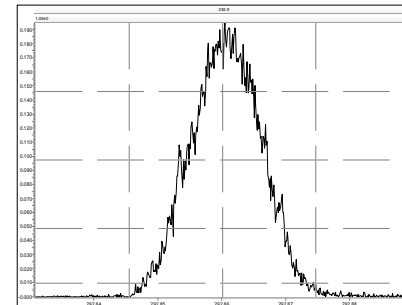
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M 280.9824 R 11848



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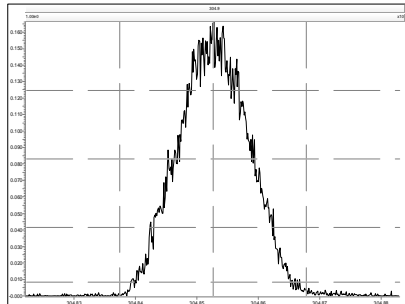
## Resolution Check Report

MassLynx 4.1 SCN 881

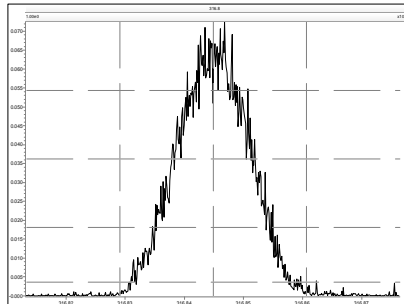
Page 3 of 5

Printed: Tuesday, April 01, 2014 23:29:09 Eastern Daylight Time

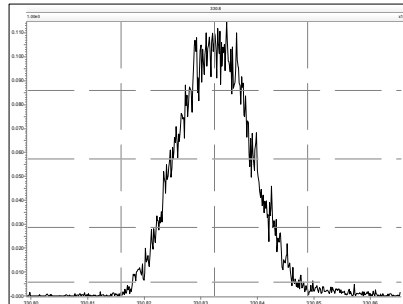
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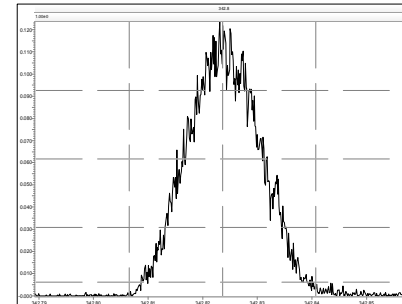
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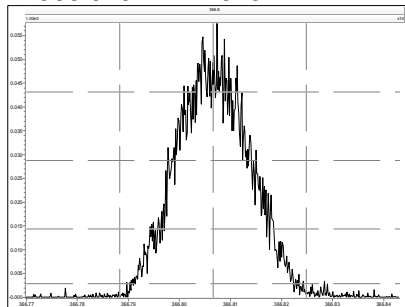
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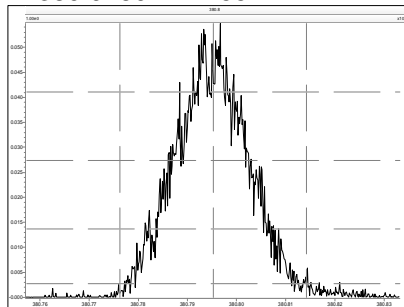
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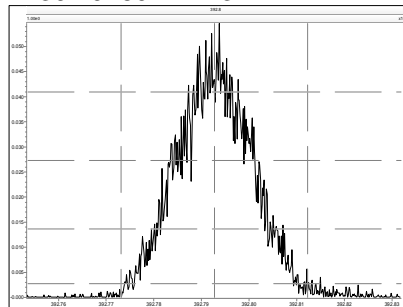
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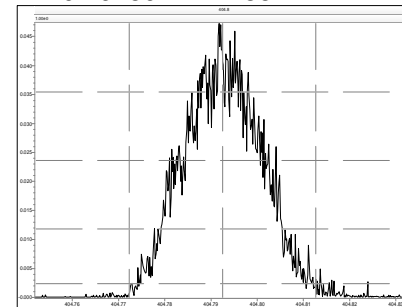
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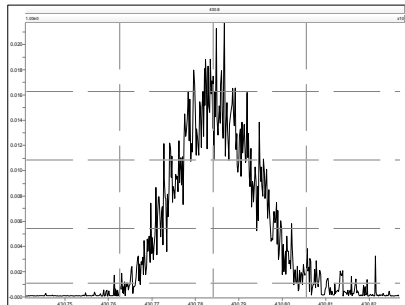
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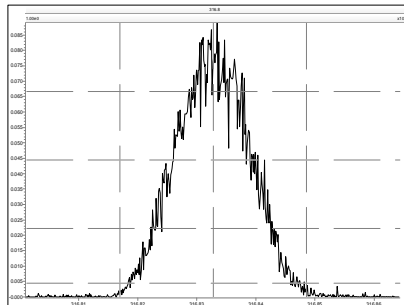
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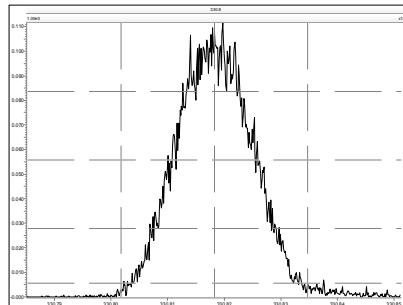
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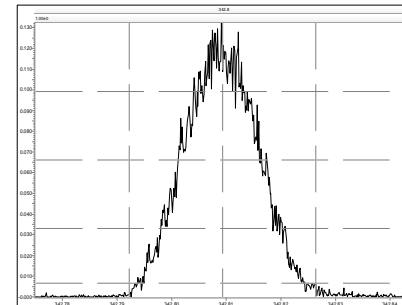
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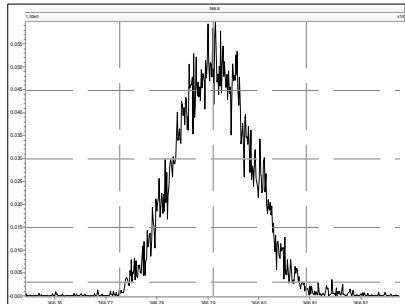
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MassLynx 4.1 SCN 881

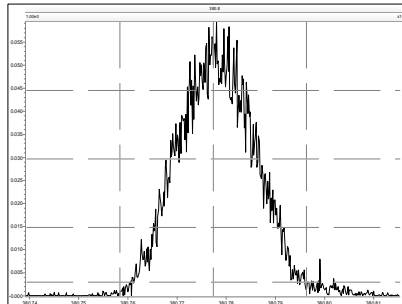
Page 4 of 5

Printed: Tuesday, April 01, 2014 23:29:09 Eastern Daylight Time

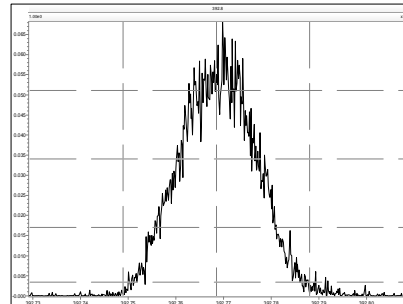
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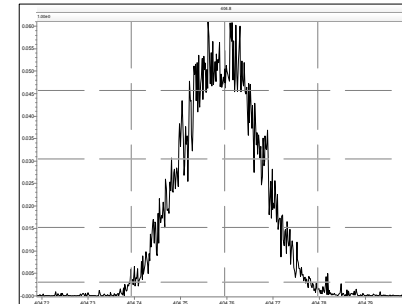
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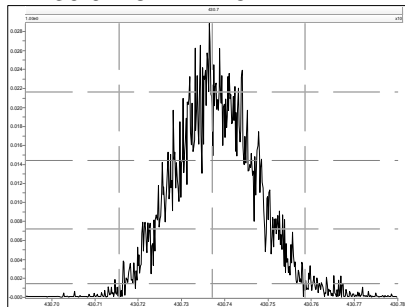
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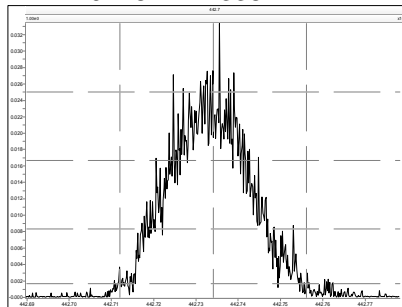
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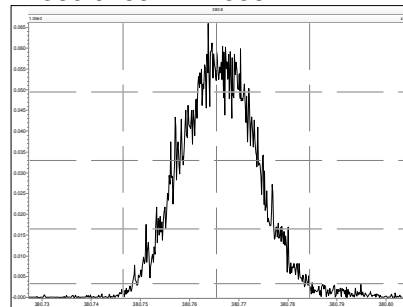
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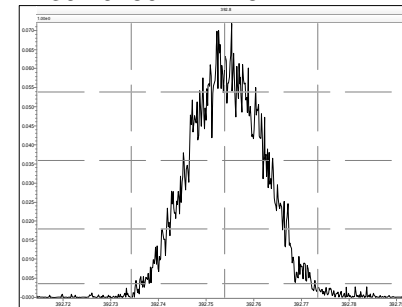
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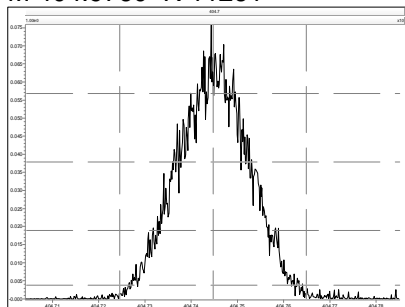
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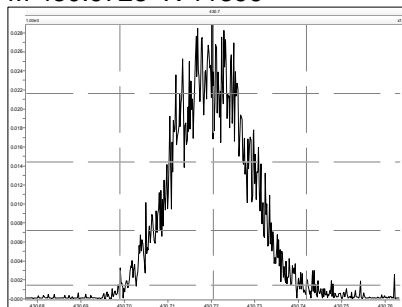
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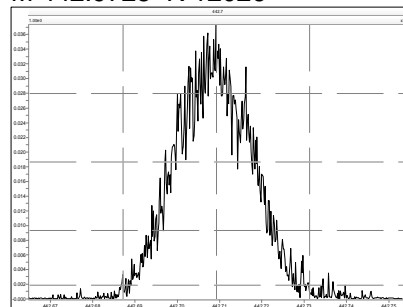
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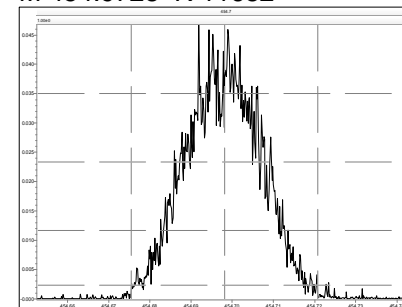
M 430.9728 R 11396



M 442.9728 R 12026



M 454.9728 R 11682





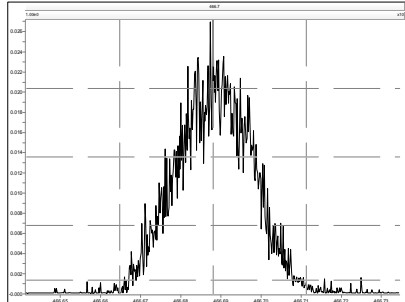
## Resolution Check Report

MassLynx 4.1 SCN 881

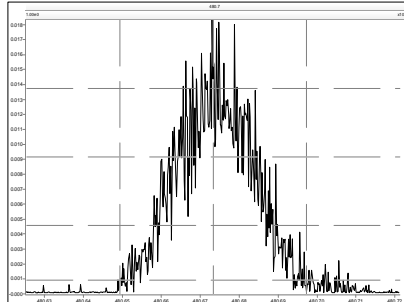
Page 5 of 5

Printed: Tuesday, April 01, 2014 23:29:09 Eastern Daylight Time

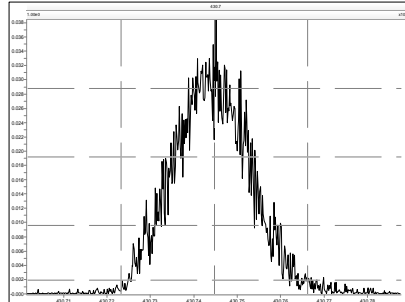
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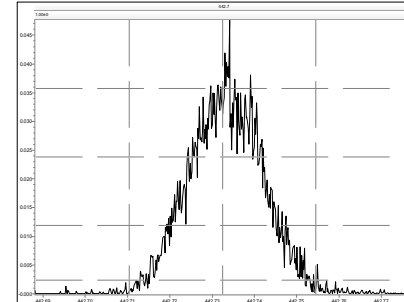
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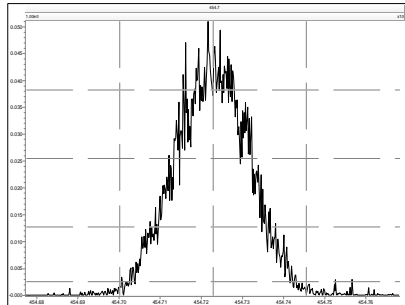
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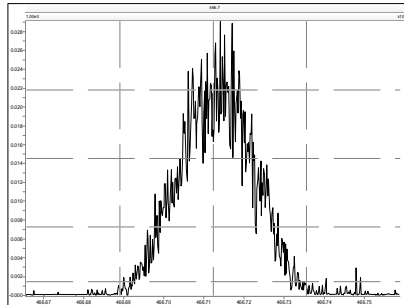
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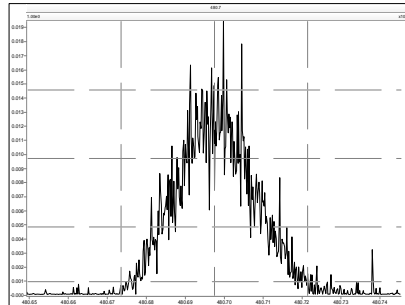
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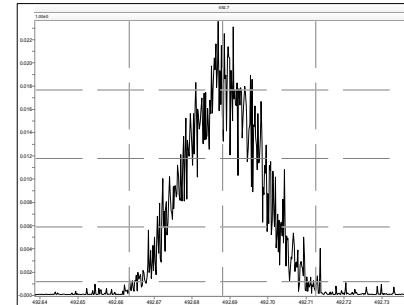
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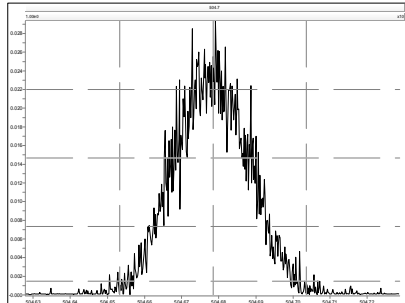
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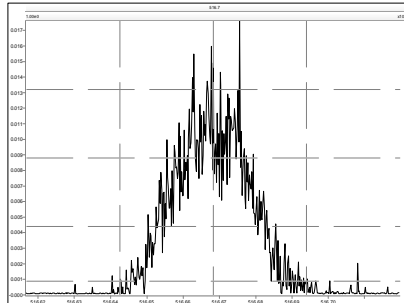
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M 504.9696 R 11439



M 516.9697 R 13426



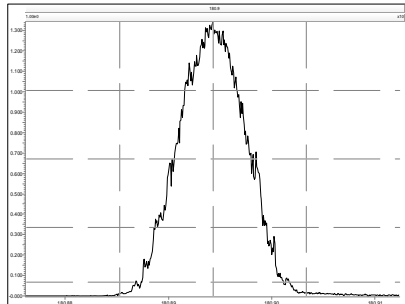
## Resolution Check Report

MassLynx 4.1 SCN 881

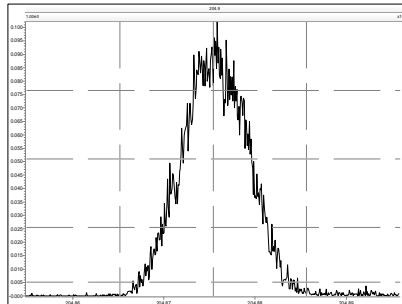
Page 1 of 5

Printed: Wednesday, April 02, 2014 09:47:36 Eastern Daylight Time

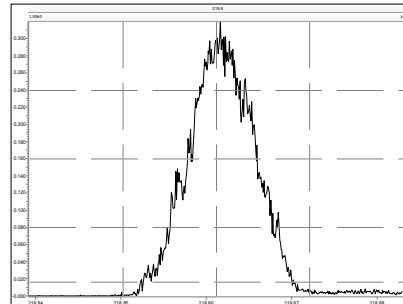
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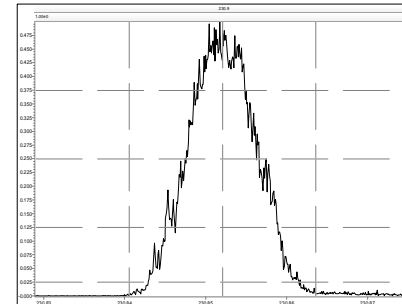
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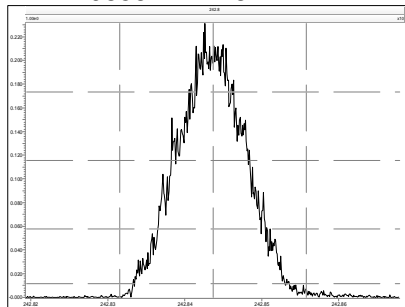
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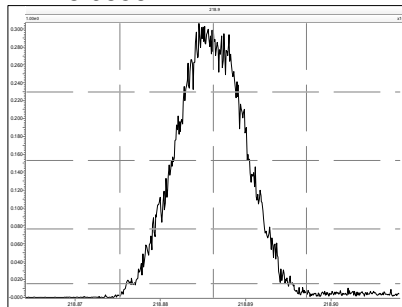
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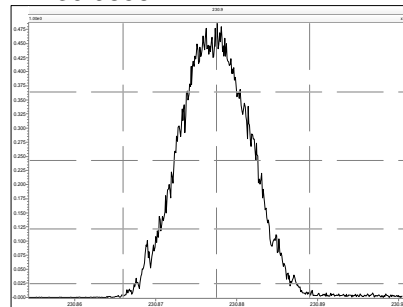
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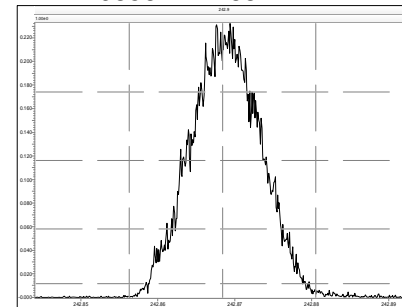
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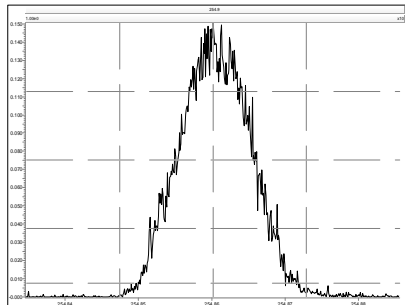
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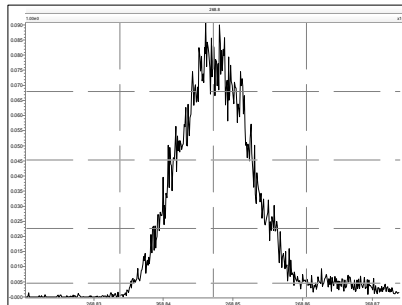
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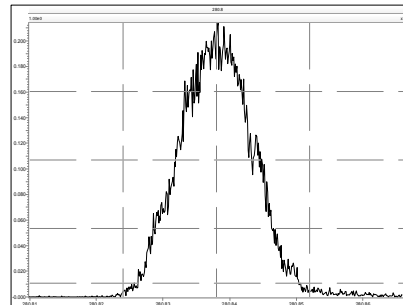
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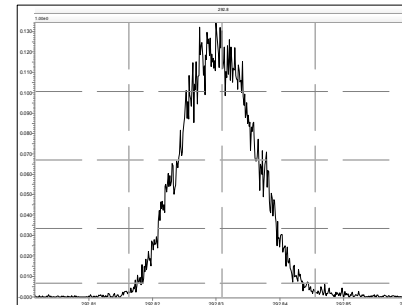
M 268.9824 R 12037



M 280.9824 R 11467



M 292.9824 R 11767

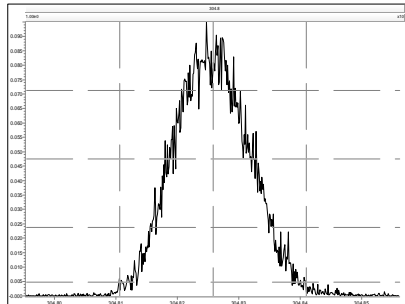


## Resolution Check Report

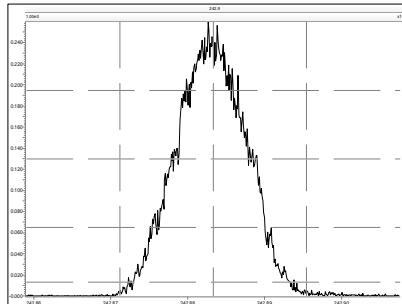
## MassLynx 4.1 SCN 881

Printed: Wednesday, April 02, 2014 09:47:36 Eastern Daylight Time

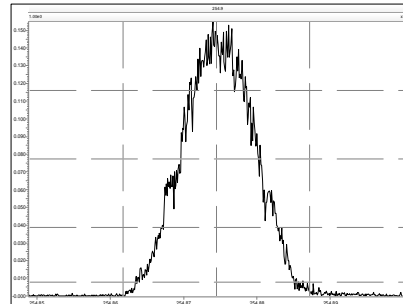
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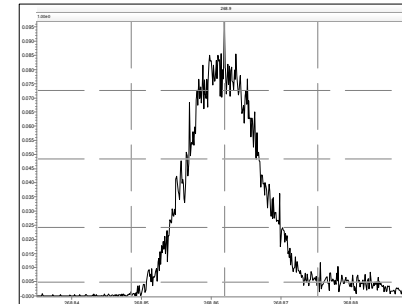
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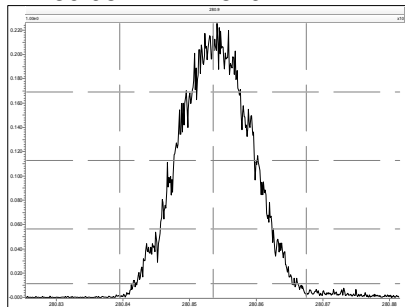
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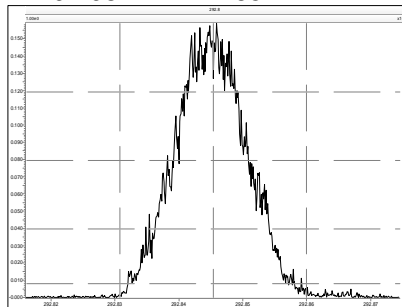
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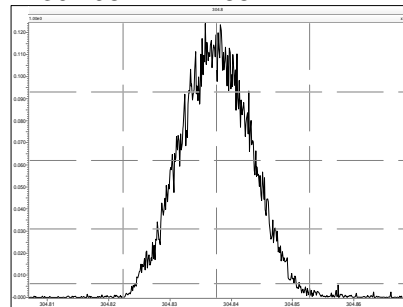
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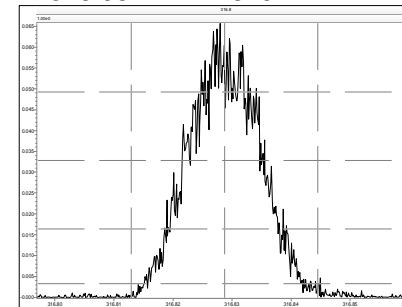
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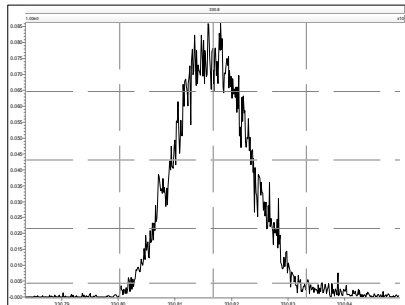
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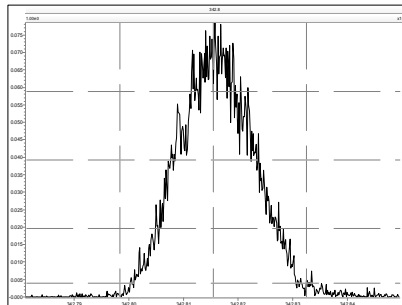
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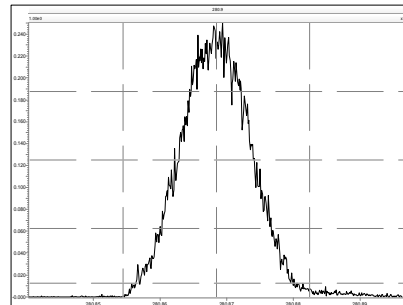
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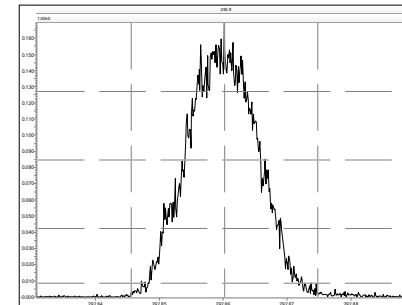
M 342.9792 R 11825



M 280.9824 R 12195



M 292.9824 R 12257



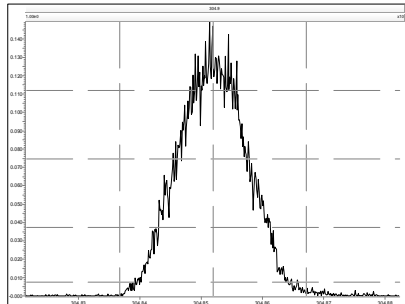
## Resolution Check Report

MassLynx 4.1 SCN 881

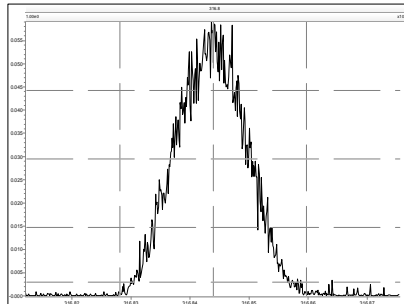
Page 3 of 5

Printed: Wednesday, April 02, 2014 09:47:36 Eastern Daylight Time

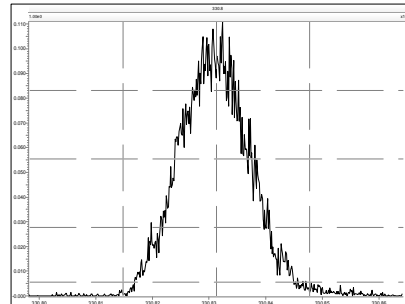
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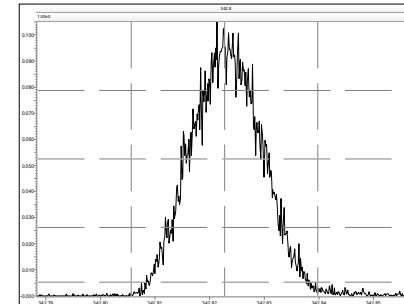
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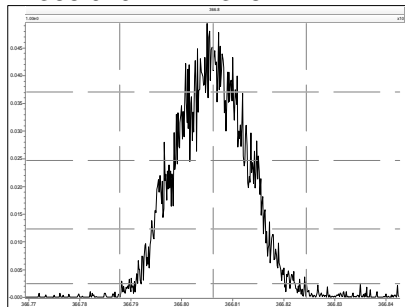
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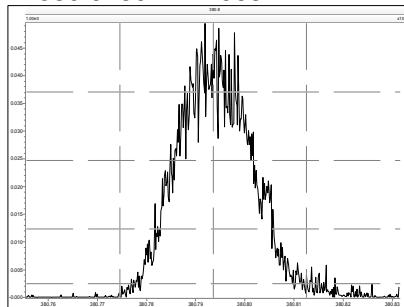
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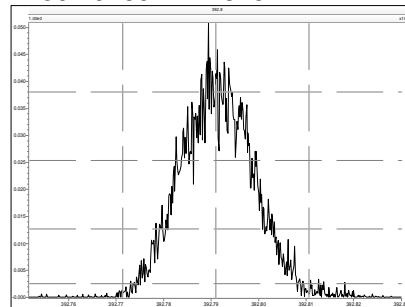
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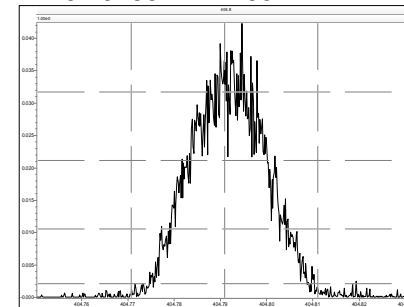
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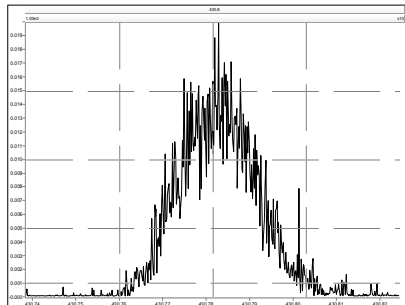
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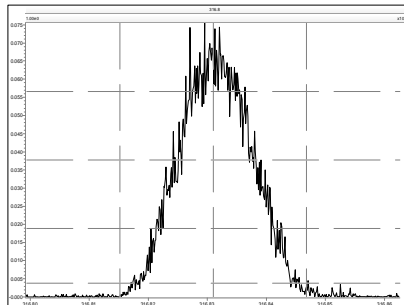
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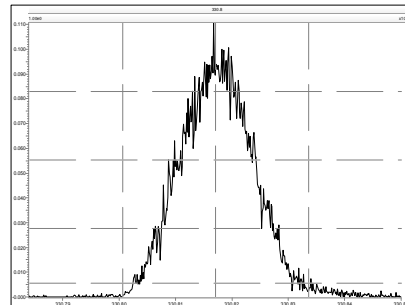
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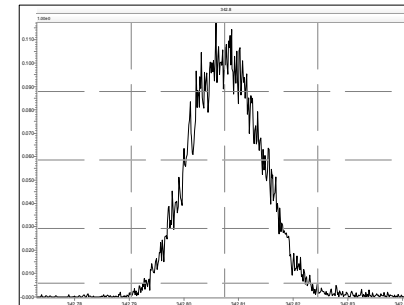
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M 330.9792 R 11421



M 342.9792 R 11659



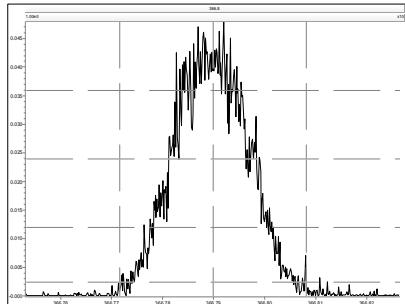
## Resolution Check Report

MassLynx 4.1 SCN 881

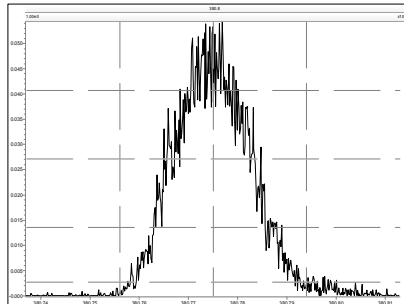
Page 4 of 5

Printed: Wednesday, April 02, 2014 09:47:36 Eastern Daylight Time

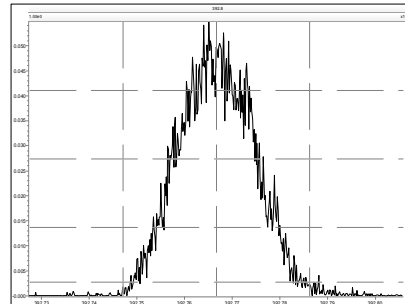
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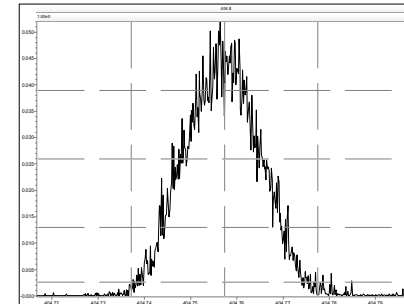
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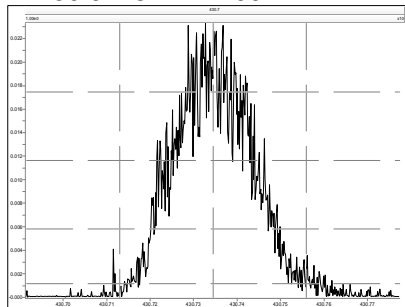
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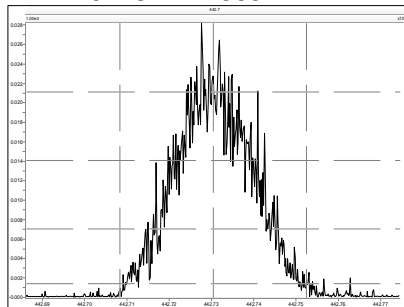
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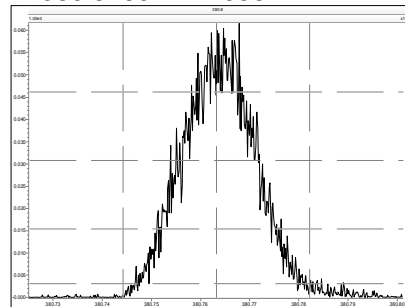
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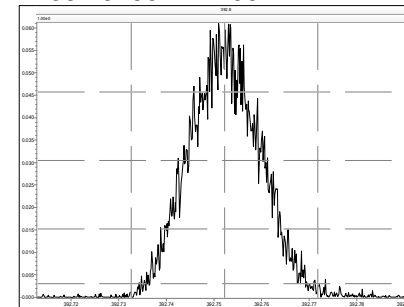
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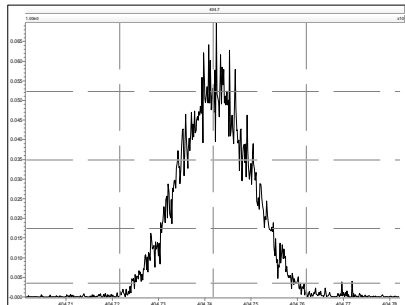
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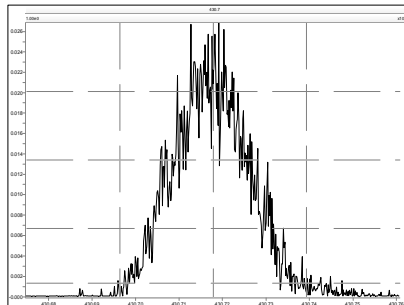
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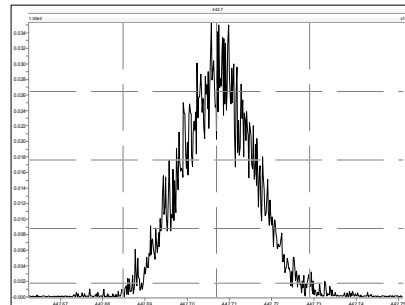
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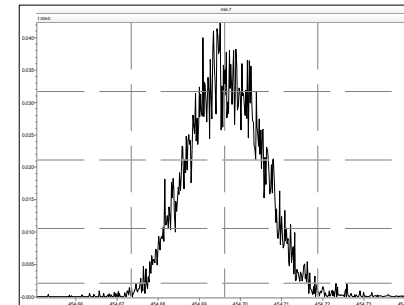
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M 442.9728 R 12132



M 454.9728 R 11709



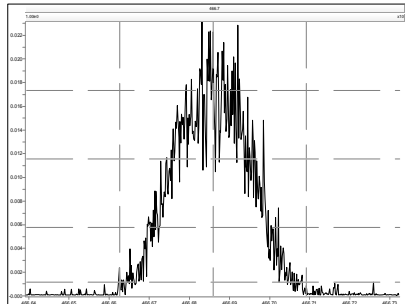
## Resolution Check Report

MassLynx 4.1 SCN 881

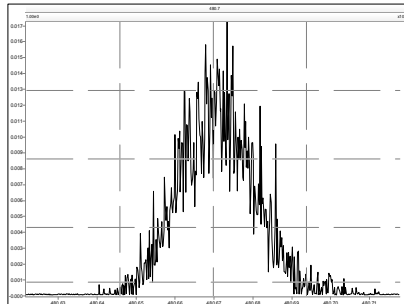
Page 5 of 5

Printed: Wednesday, April 02, 2014 09:47:36 Eastern Daylight Time

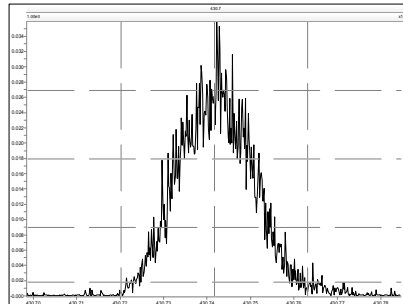
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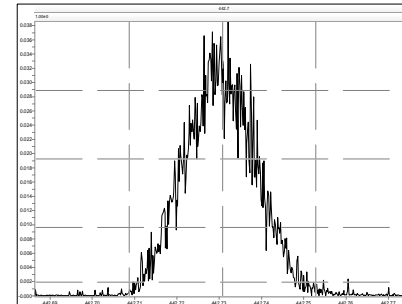
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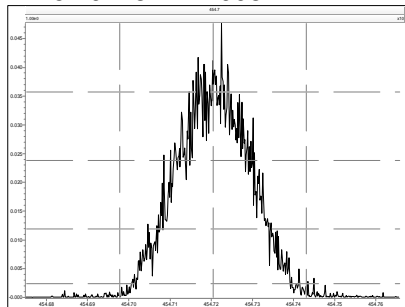
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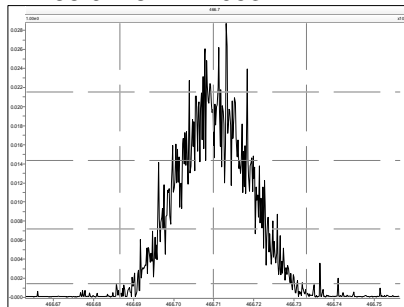
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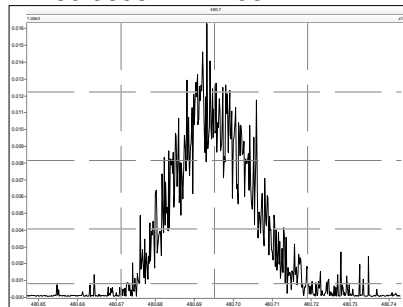
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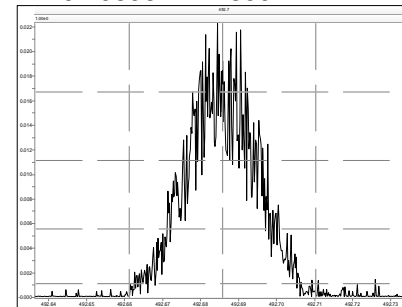
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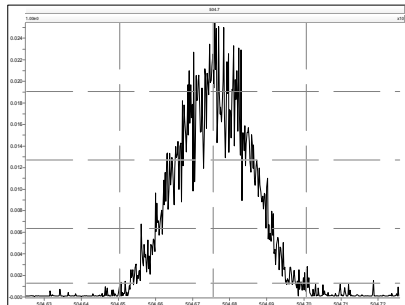
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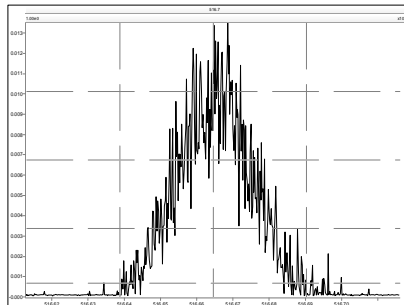
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M 504.9696 R 12073



M 516.9697 R 13192



## Experiment Calibration Report

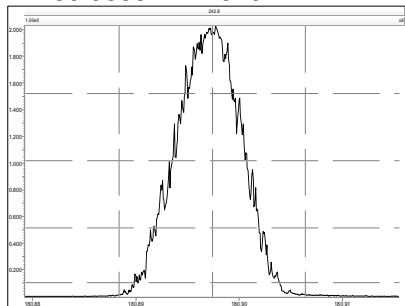
MassLynx 4.1 SCN 881

Page 1 of 1

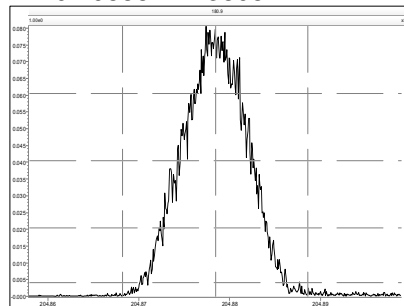
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Printed: Thursday, April 03, 2014 12:54:24 Eastern Daylight Time

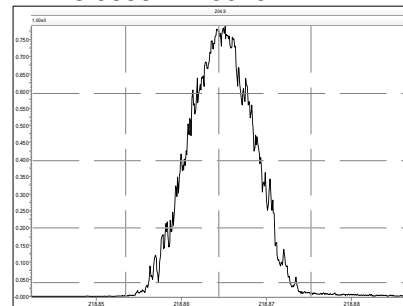
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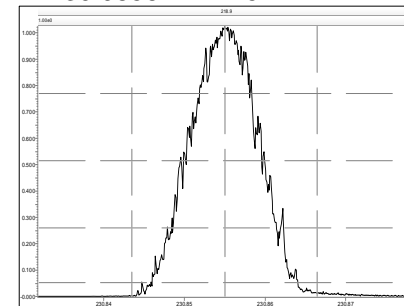
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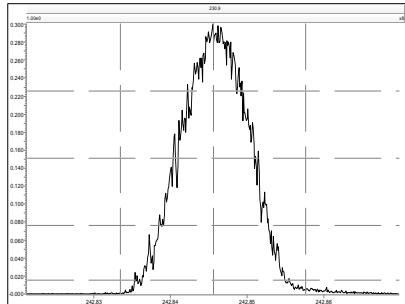
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M 230.9856 R 12754



M 242.9856 R 12953



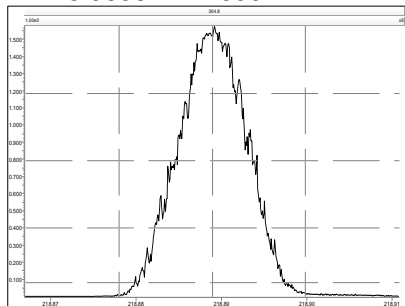
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

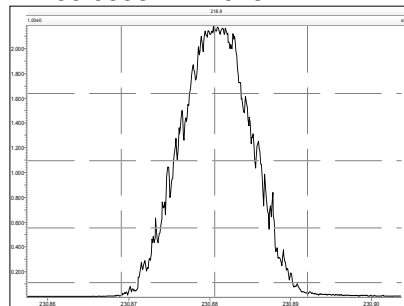
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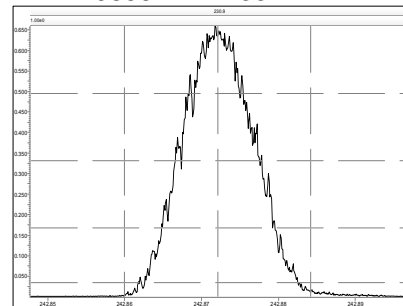
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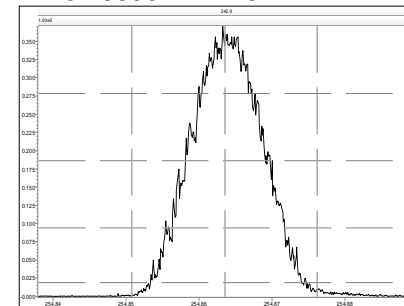
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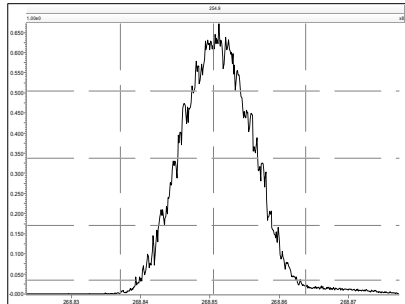
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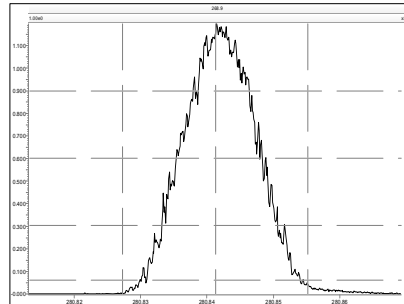
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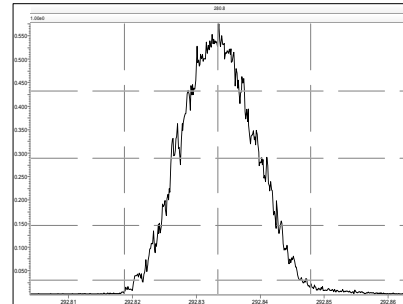
M 268.9824 R 11792



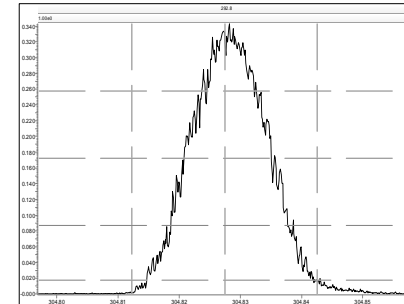
M 280.9824 R 12132



M 292.9824 R 11062



M 304.9824 R 11159





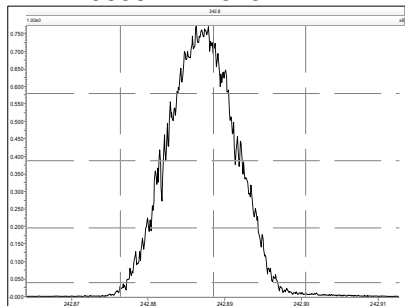
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

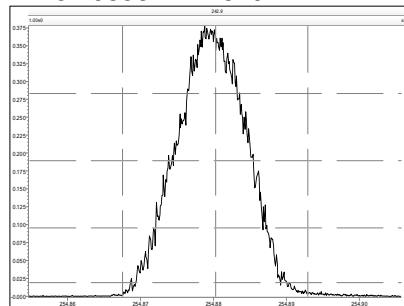
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 3 @ 200 (ppm)

Printed: Thursday, April 03, 2014 12:55:45 Eastern Daylight Time

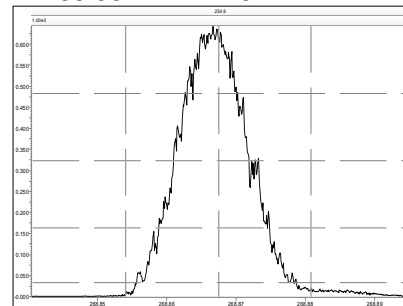
M 242.9856 R 12313



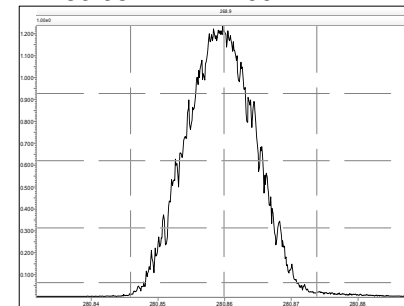
M 254.9856 R 12819



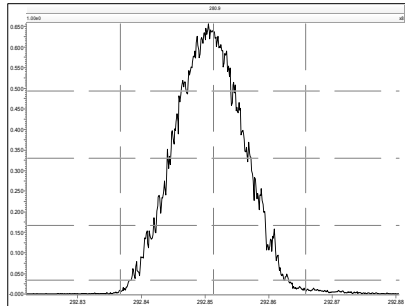
M 268.9824 R 11792



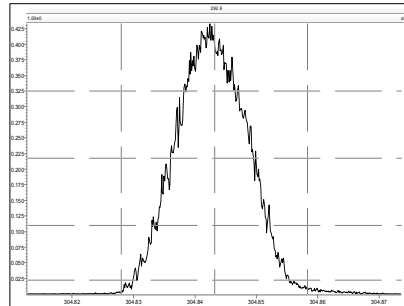
M 280.9824 R 12199



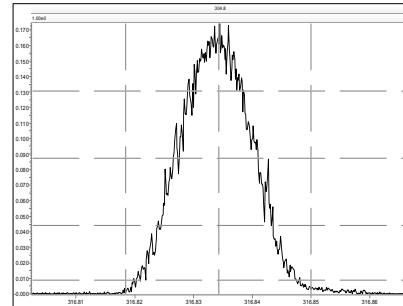
M 292.9824 R 11629



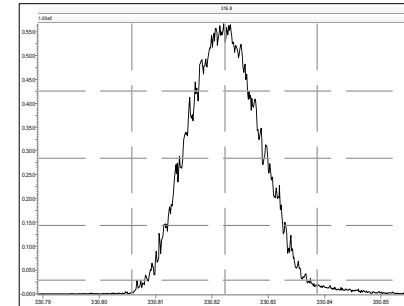
M 304.9824 R 11903



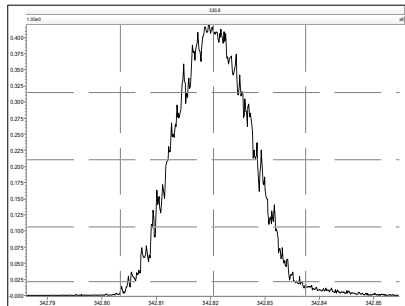
M 316.9824 R 11570



M 330.9792 R 11737



M 342.9792 R 11310



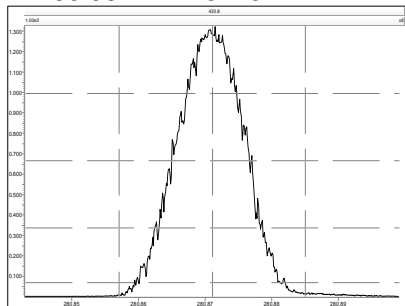
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

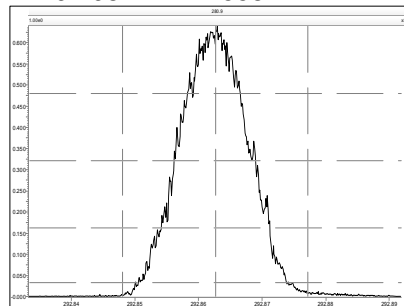
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 03, 2014 12:56:12 Eastern Daylight Time

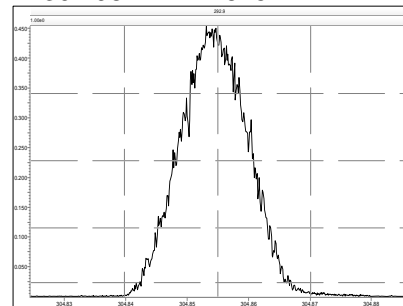
M 280.9824 R 13225



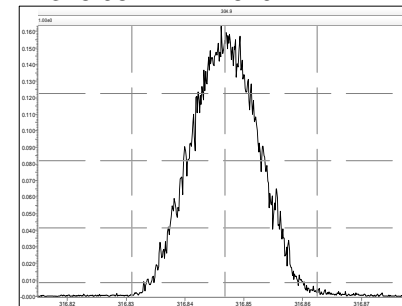
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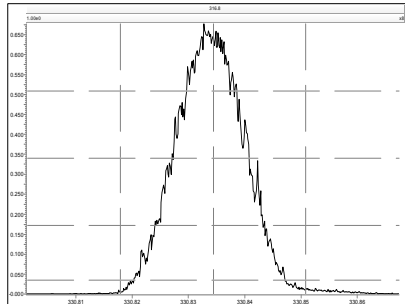
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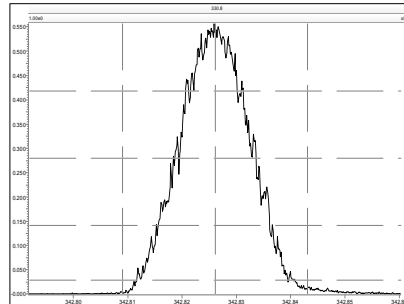
M 316.9824 R 12629



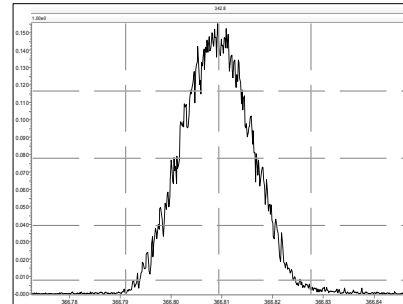
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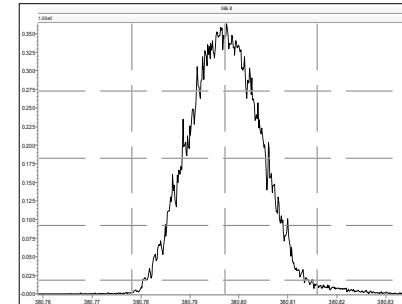
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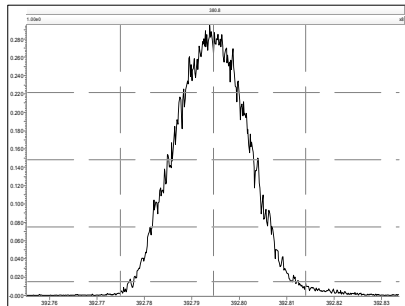
M 366.9792 R 11904



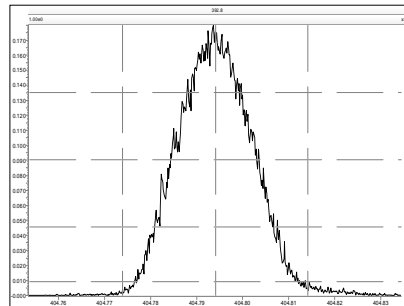
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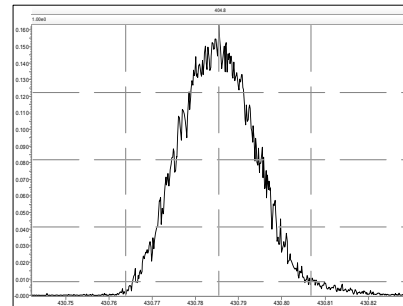
M 392.9760 R 11517



M 404.9760 R 11311



M 430.9728 R 10549



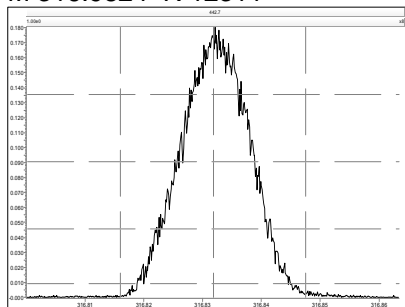
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

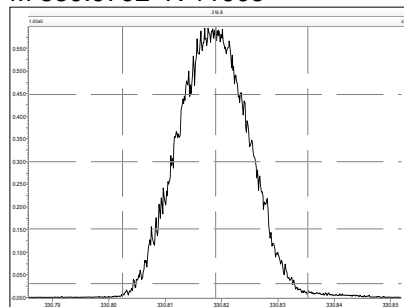
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 03, 2014 12:56:42 Eastern Daylight Time

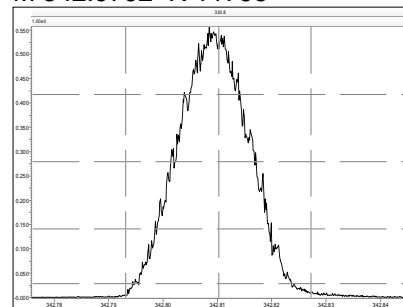
M 316.9824 R 12311



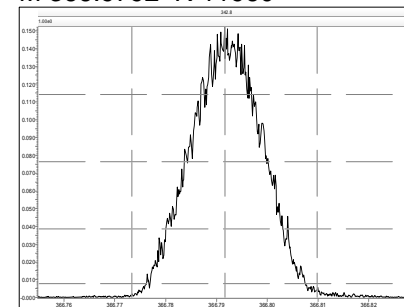
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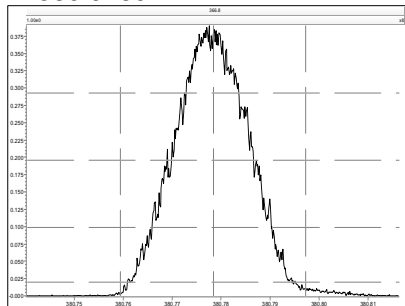
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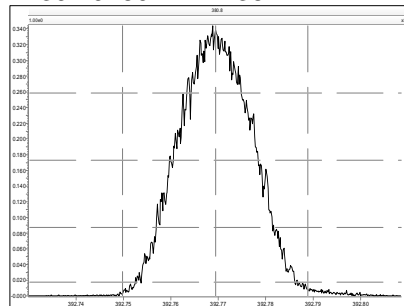
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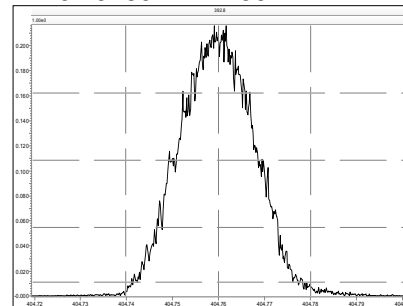
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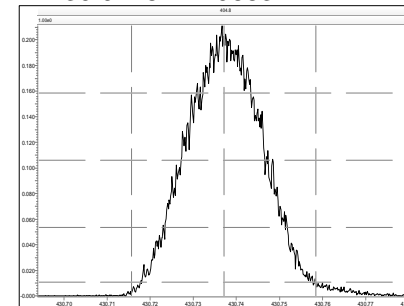
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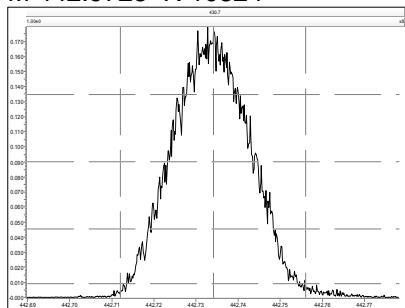
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M 430.9728 R 10683



M 442.9728 R 10824



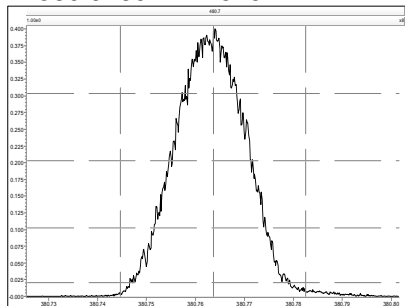
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

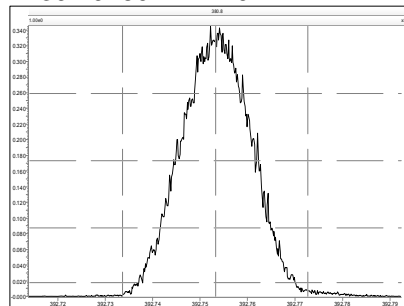
File: Experiment: pcb-2012-01.exp Reference: Pfk4.ref Function: 6 @ 200 (ppm)

Printed: Thursday, April 03, 2014 12:57:03 Eastern Daylight Time

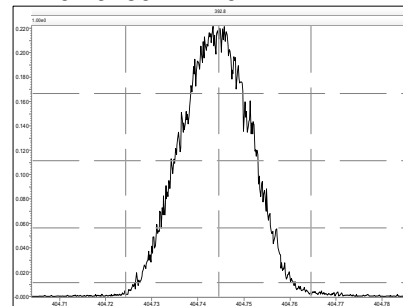
M 380.9760 R 11575



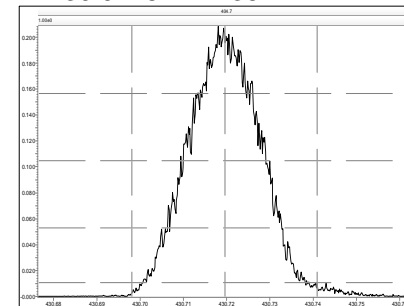
M 392.9760 R 11792



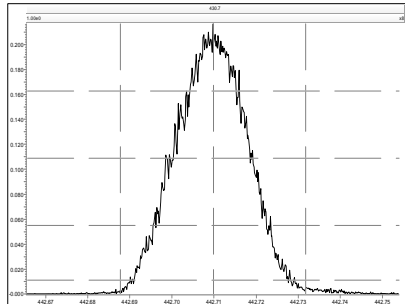
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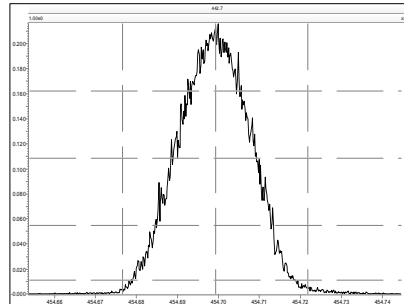
M 430.9728 R 11362



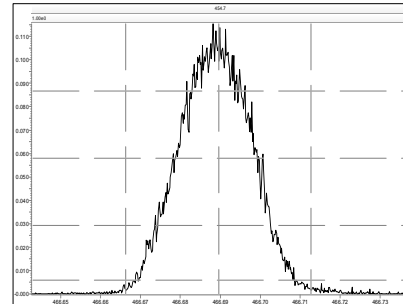
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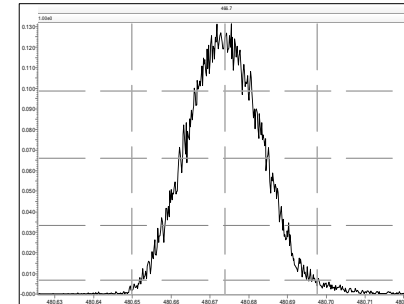
M 454.9728 R 11367



M 466.9728 R 11684



M 480.9696 R 10680



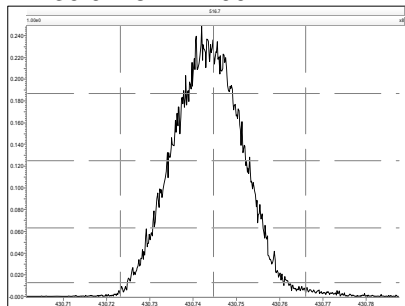
## Experiment Calibration Report

## MassLynx 4.1 SCN 881

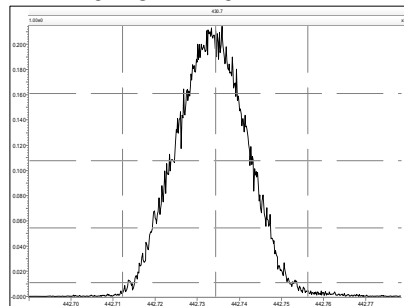
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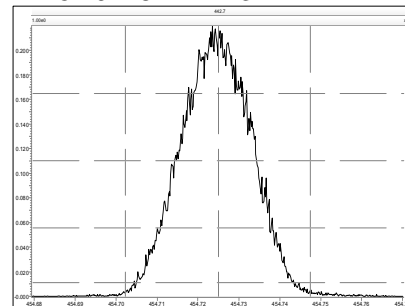
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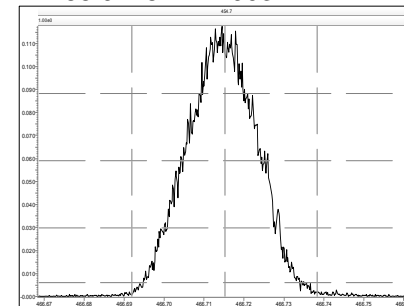
M 442.9728 R 12017



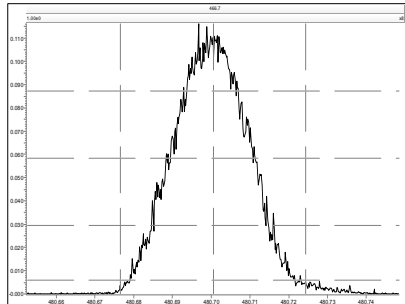
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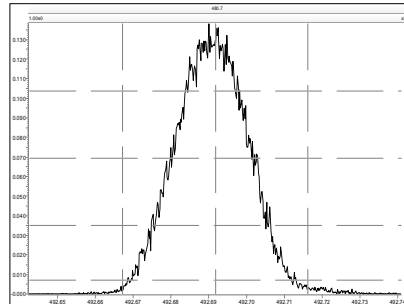
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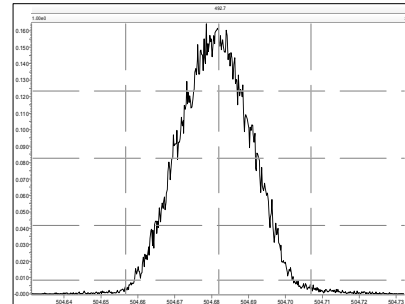
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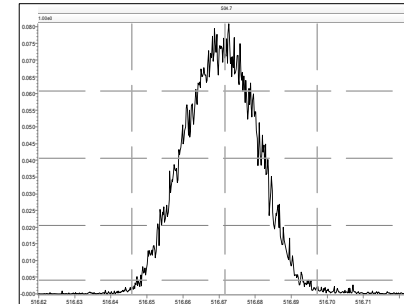
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M 504.9696 R 11683



M 516.9697 R 11848

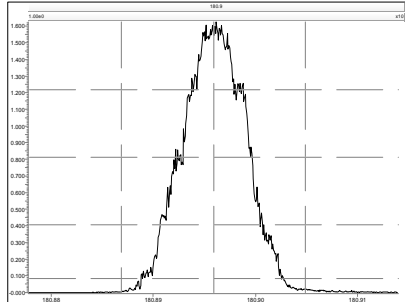


Resolution Check Report

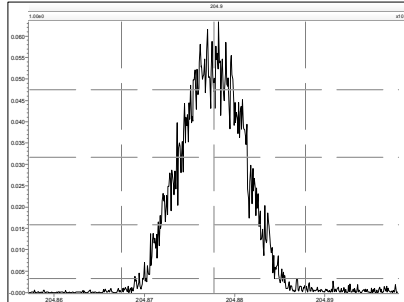
MassLynx 4.1 SCN 881

Printed: Thursday, April 03, 2014 22:08:59 Eastern Daylight Time

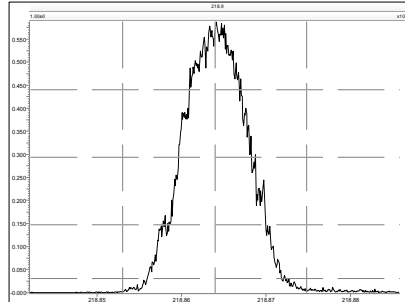
M 180.9888 R 13233



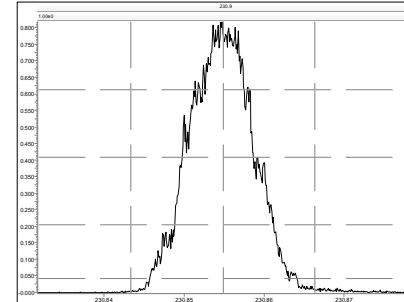
M 204.9888 R 13739



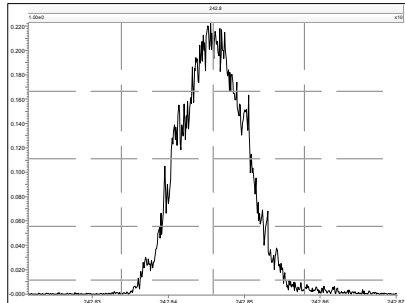
M 218.9856 R 13549



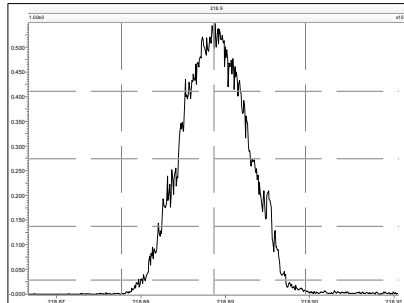
M 230.9856 R 13091



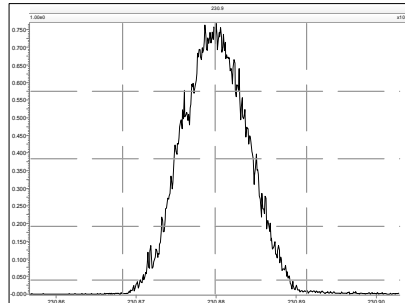
M 242.9856 R 12987



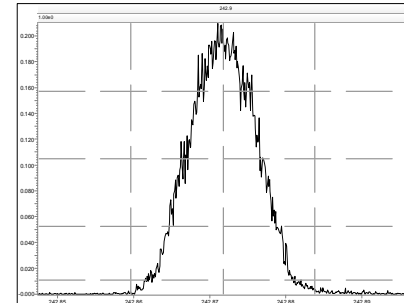
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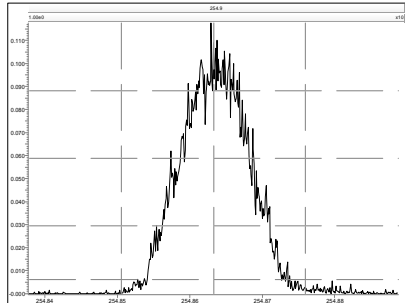
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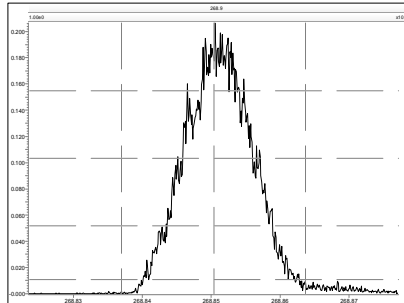
M 242.9856 R 13021



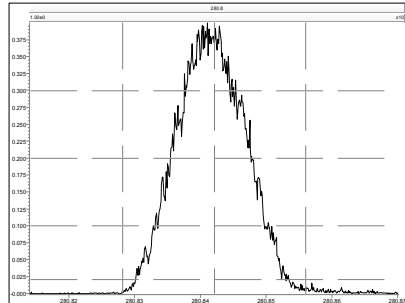
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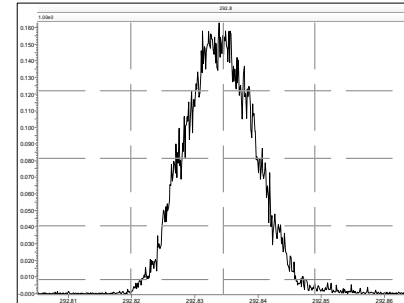
M 268.9824 R 12136



M 280.9824 R 11904



M 292.9824 R 12019

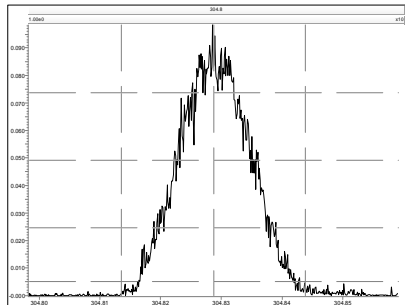


Resolution Check Report

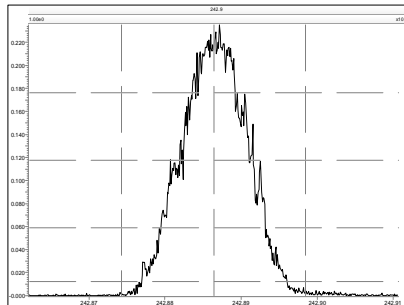
MassLynx 4.1 SCN 881

Printed: Thursday, April 03, 2014 22:08:59 Eastern Daylight Time

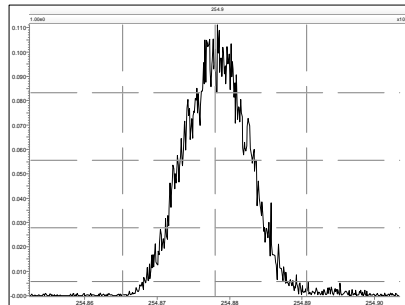
M 304.9824 R 11792



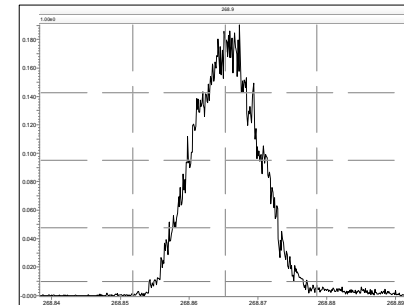
M 242.9856 R 12958



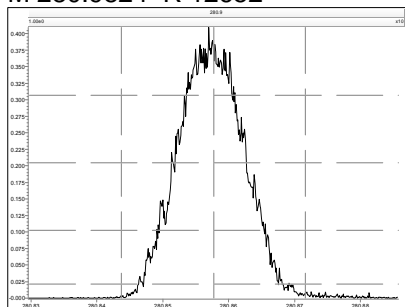
M 254.9856 R 13061



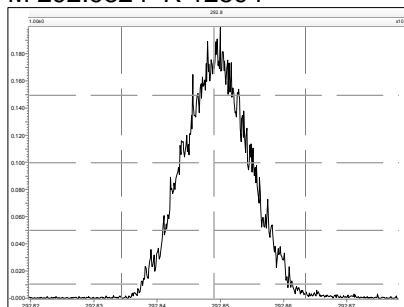
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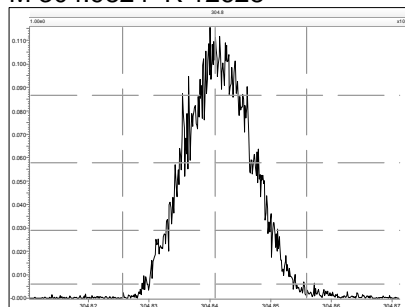
M 280.9824 R 12652



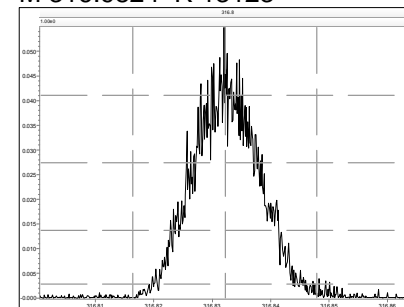
M 292.9824 R 12594



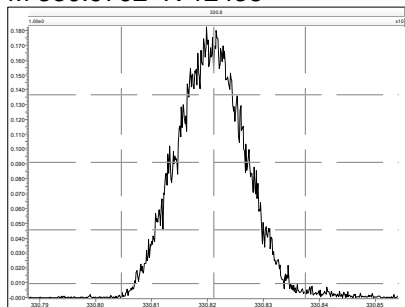
M 304.9824 R 12628



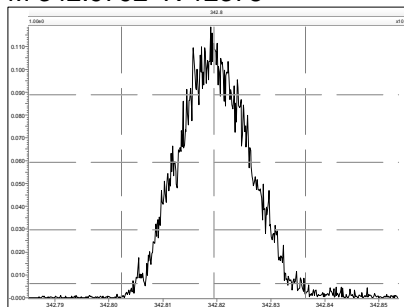
M 316.9824 R 13123



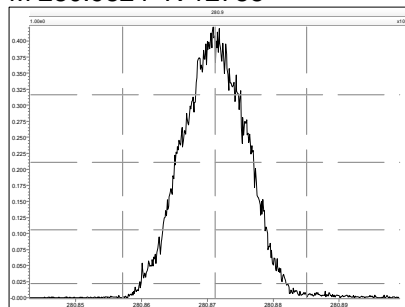
M 330.9792 R 12438



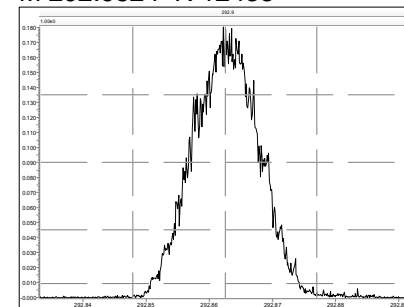
M 342.9792 R 12378



M 280.9824 R 12788



M 292.9824 R 12438



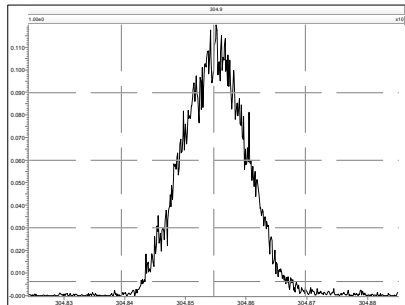
## Resolution Check Report

MassLynx 4.1 SCN 881

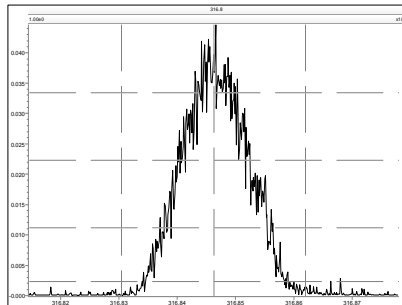
Page 3 of 5

Printed: Thursday, April 03, 2014 22:08:59 Eastern Daylight Time

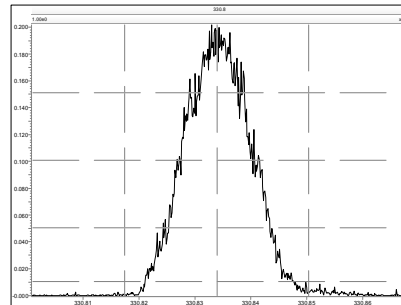
M 304.9824 R 12788



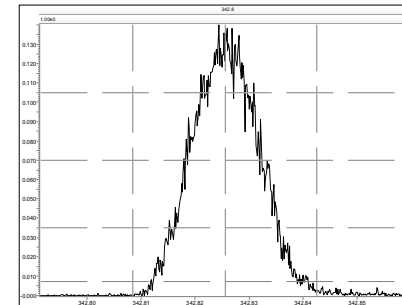
M 316.9824 R 13058



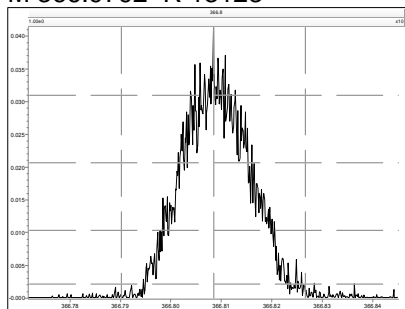
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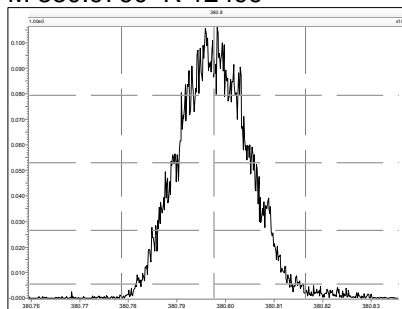
M 342.9792 R 12820



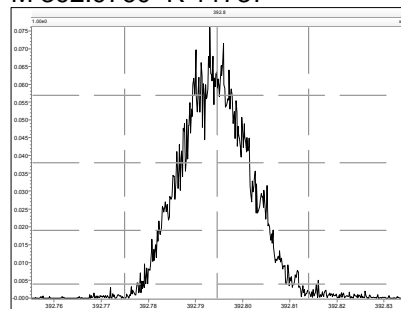
M 366.9792 R 13123



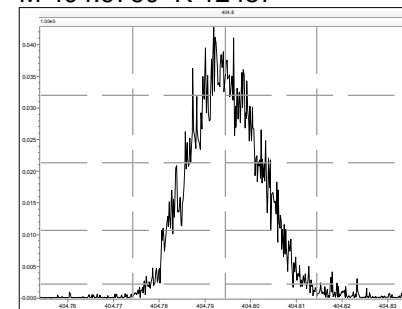
M 380.9760 R 12499



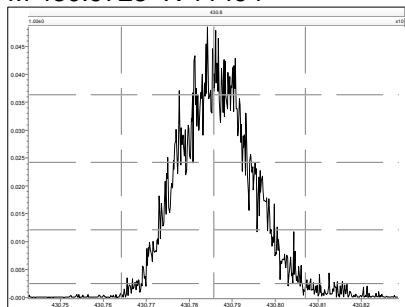
M 392.9760 R 11737



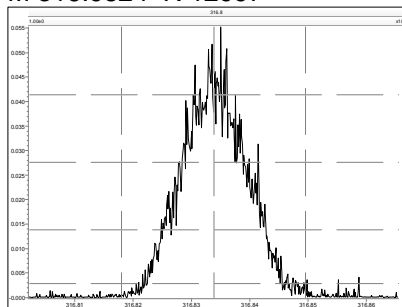
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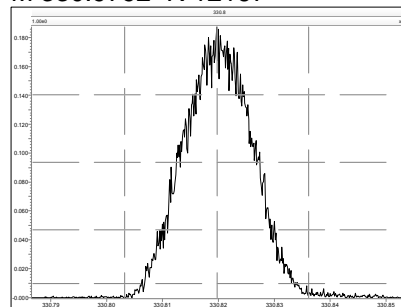
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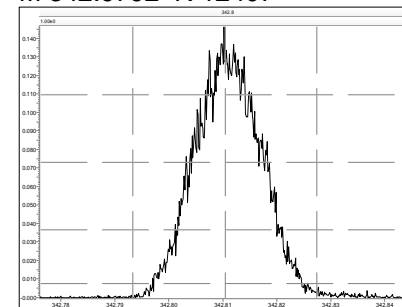
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M 330.9792 R 12167



M 342.9792 R 12407





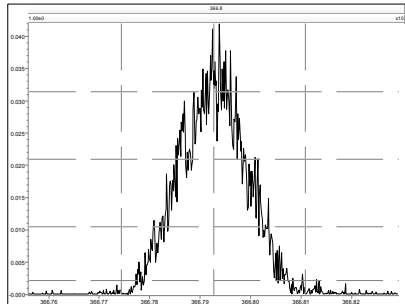
## Resolution Check Report

MassLynx 4.1 SCN 881

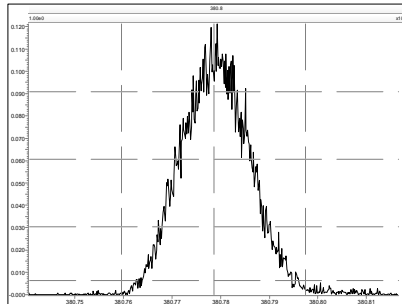
Page 4 of 5

Printed: Thursday, April 03, 2014 22:08:59 Eastern Daylight Time

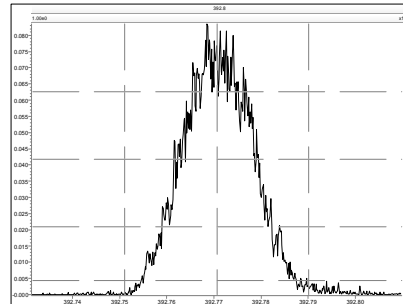
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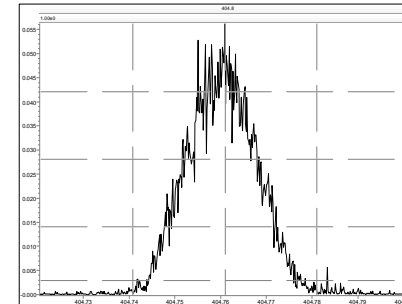
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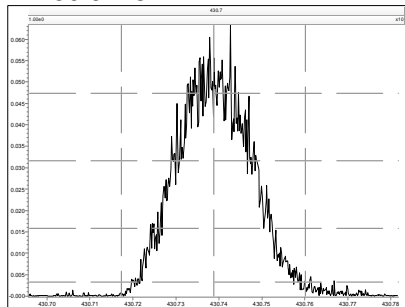
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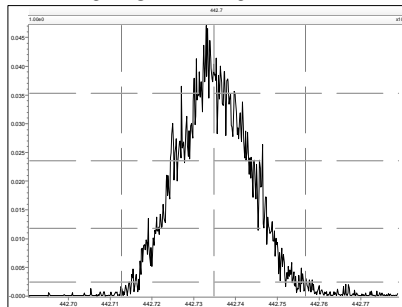
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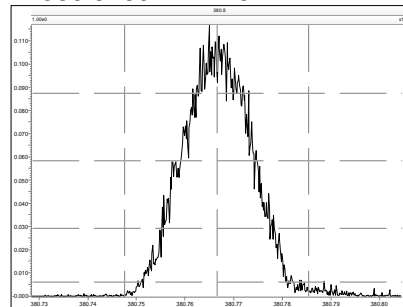
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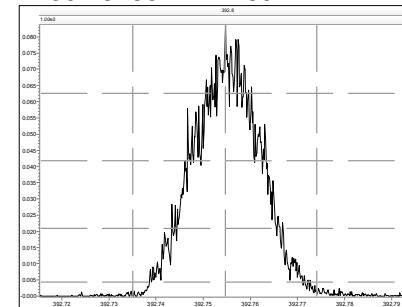
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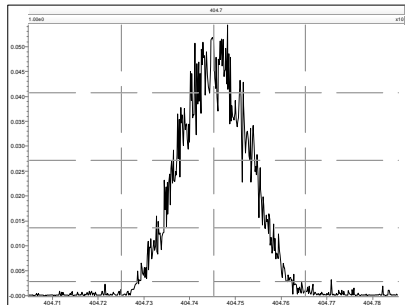
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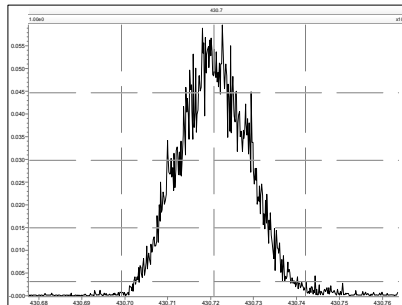
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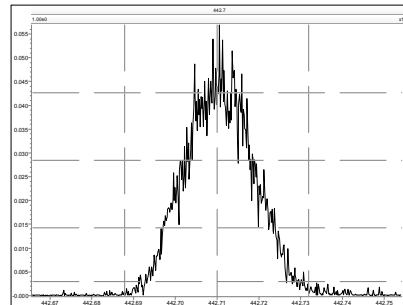
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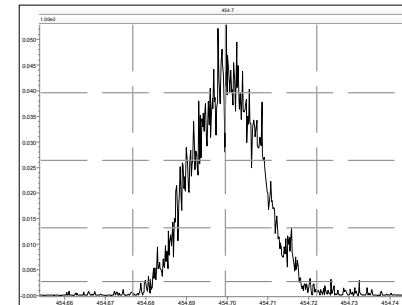
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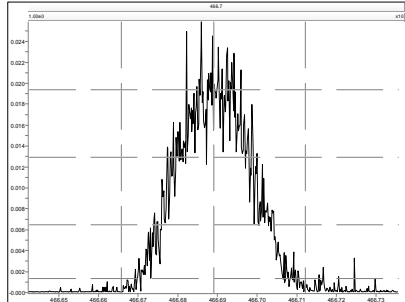
## Resolution Check Report

MassLynx 4.1 SCN 881

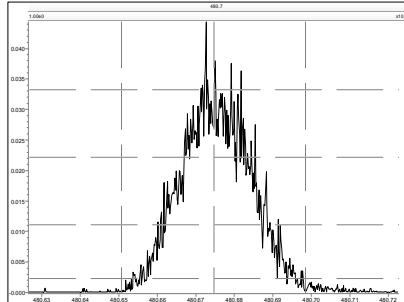
Page 5 of 5

Printed: Thursday, April 03, 2014 22:08:59 Eastern Daylight Time

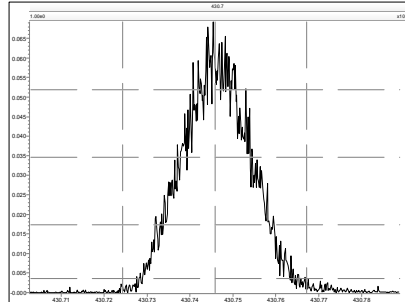
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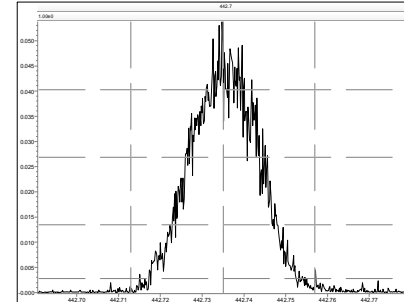
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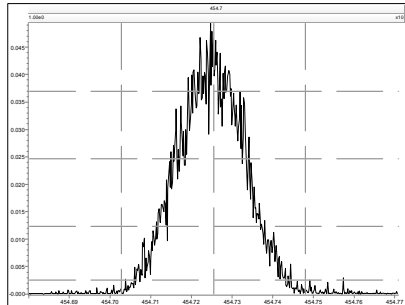
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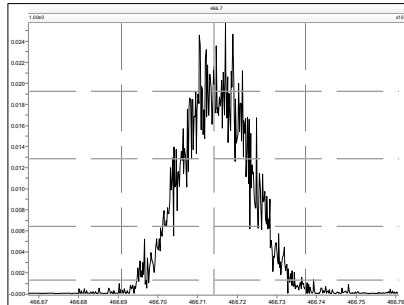
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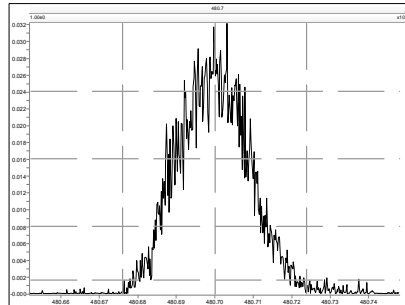
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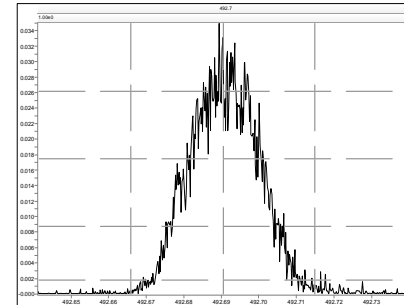
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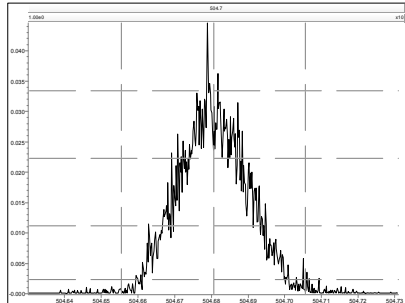
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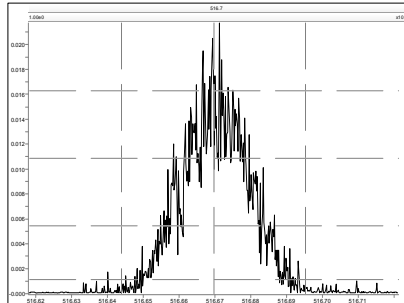
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M 504.9696 R 12378



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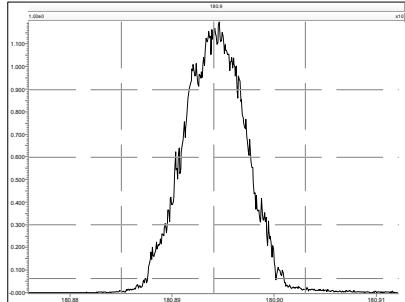
## Resolution Check Report

MassLynx 4.1 SCN 881

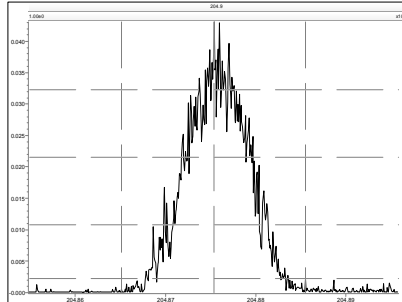
Page 1 of 5

Printed: Friday, April 04, 2014 06:36:11 Eastern Daylight Time

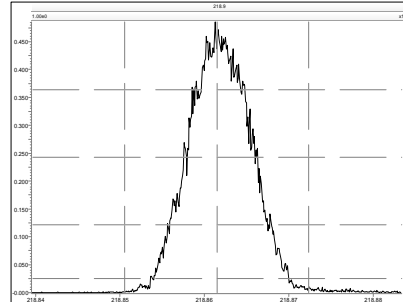
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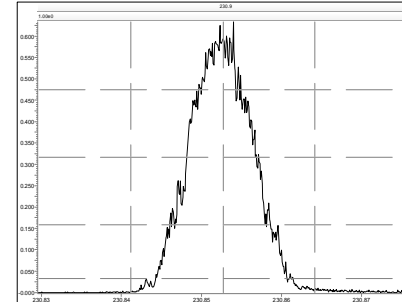
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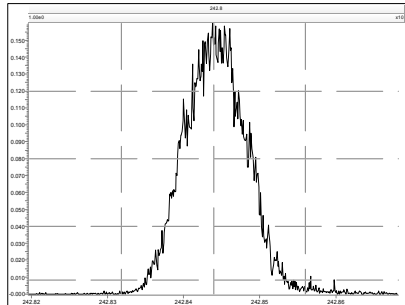
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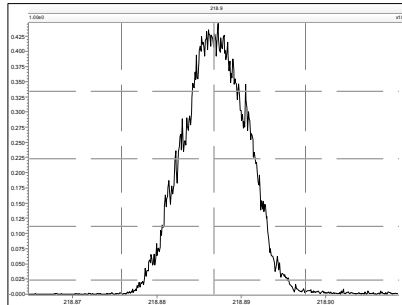
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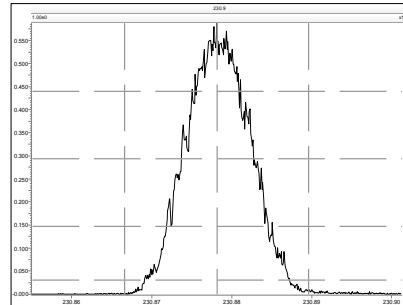
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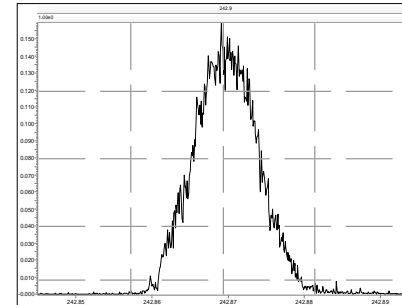
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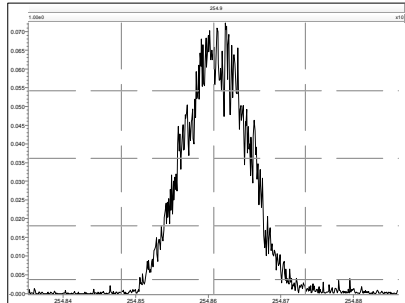
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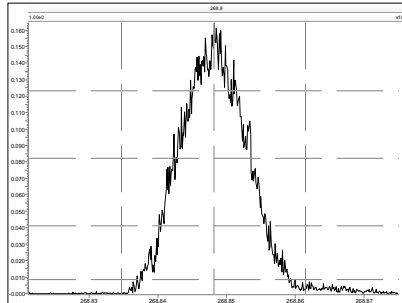
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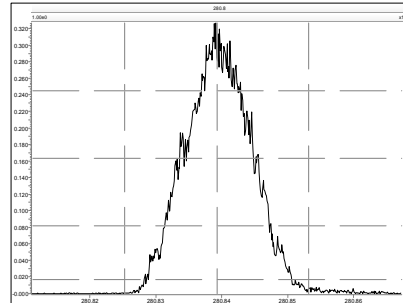
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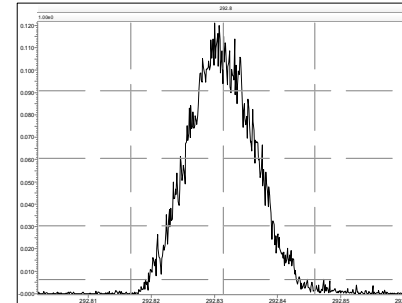
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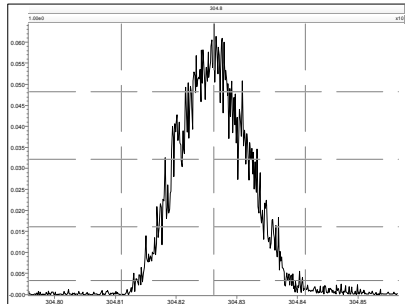
## Resolution Check Report

MassLynx 4.1 SCN 881

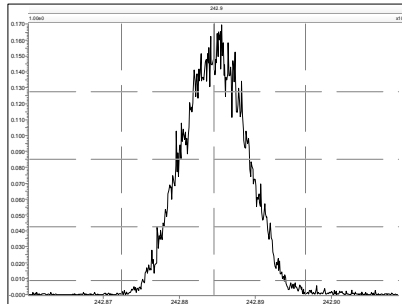
Page 2 of 5

Printed: Friday, April 04, 2014 06:36:11 Eastern Daylight Time

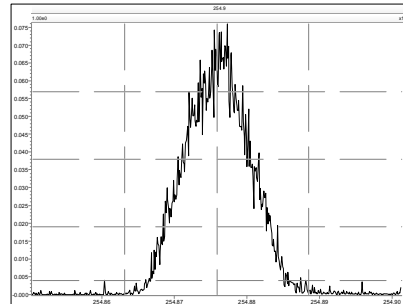
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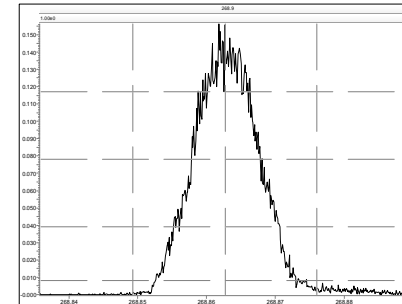
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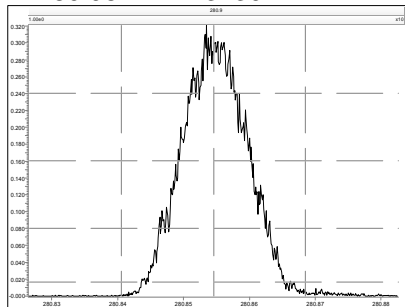
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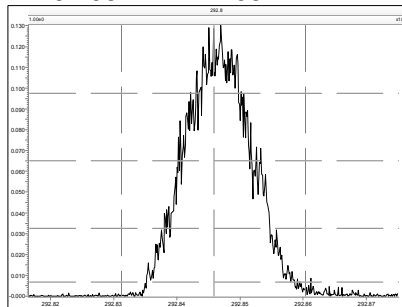
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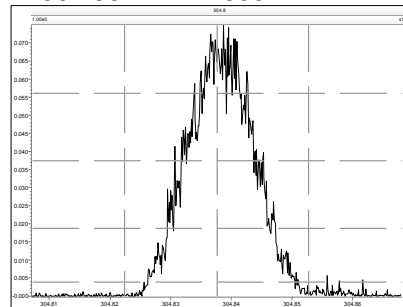
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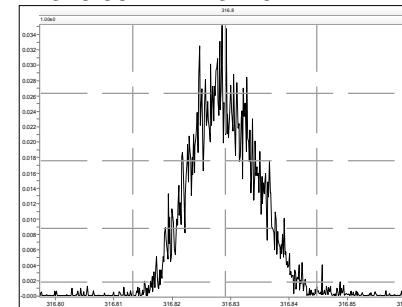
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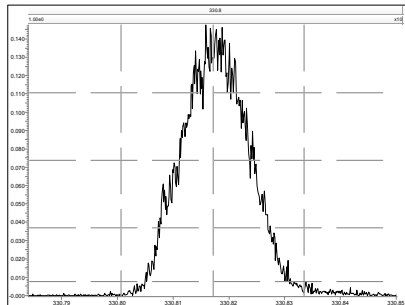
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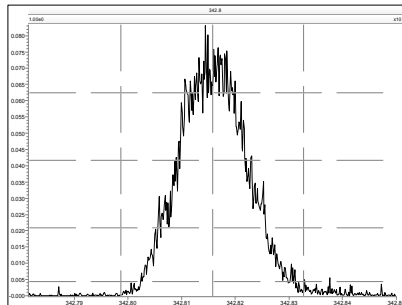
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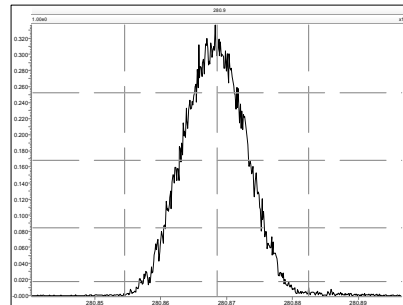
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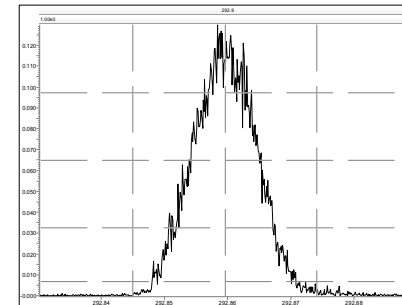
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M 280.9824 R 13515



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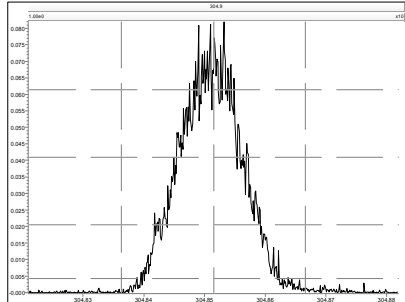


## Resolution Check Report

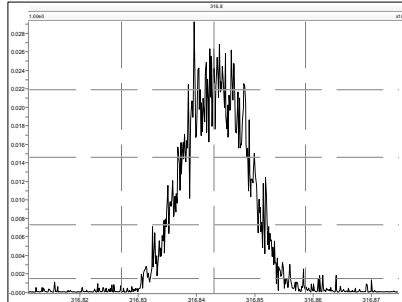
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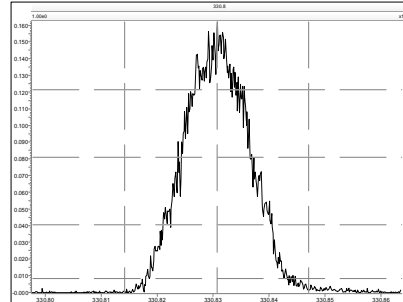
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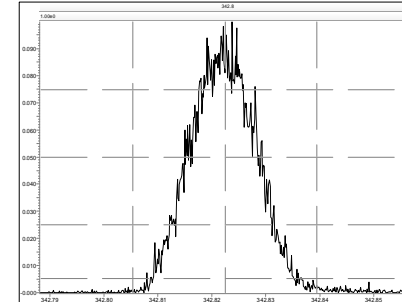
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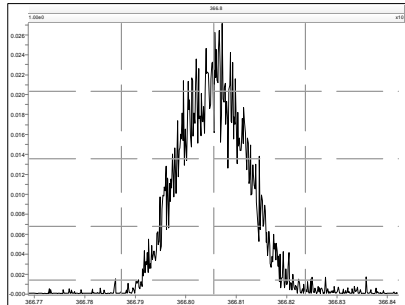
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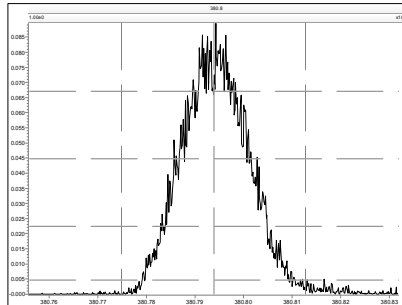
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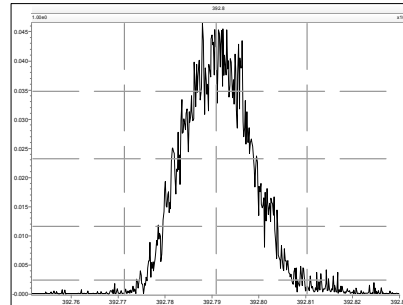
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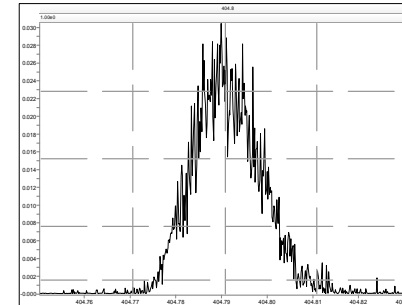
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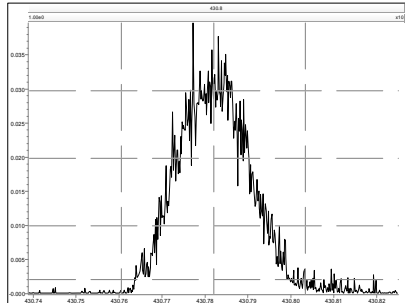
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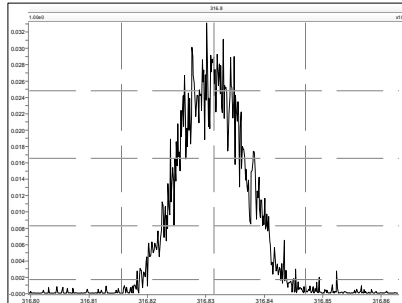
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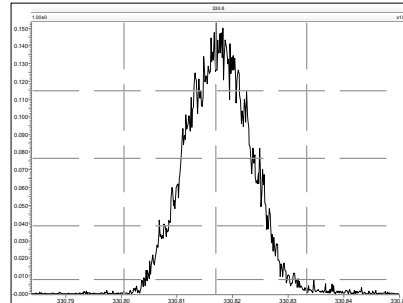
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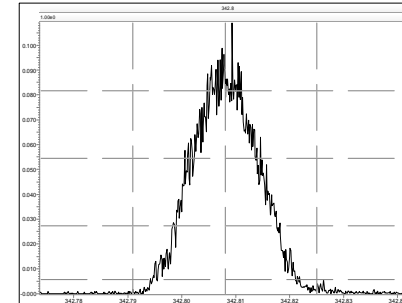
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M 342.9792 R 12596



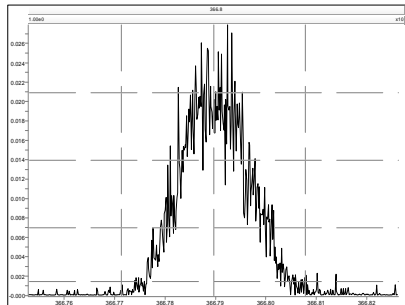
## Resolution Check Report

MassLynx 4.1 SCN 881

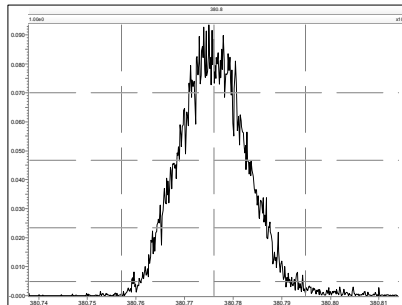
Page 4 of 5

Printed: Friday, April 04, 2014 06:36:11 Eastern Daylight Time

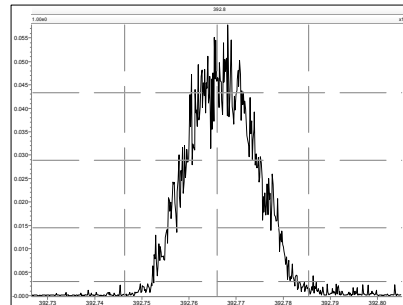
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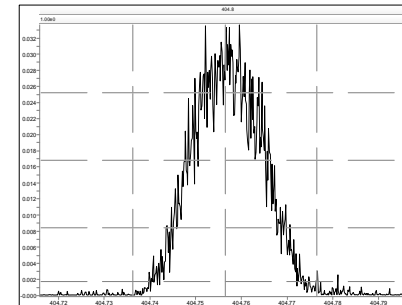
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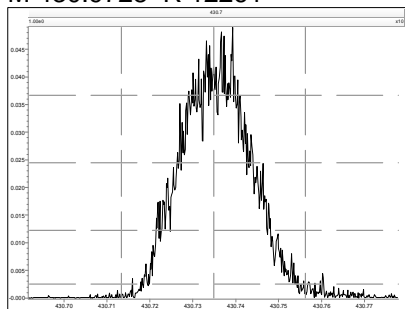
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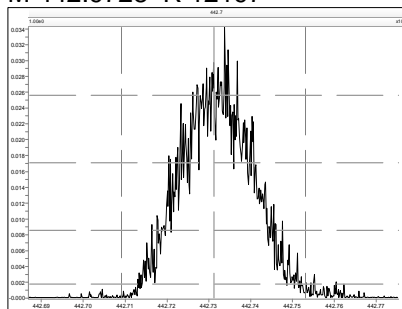
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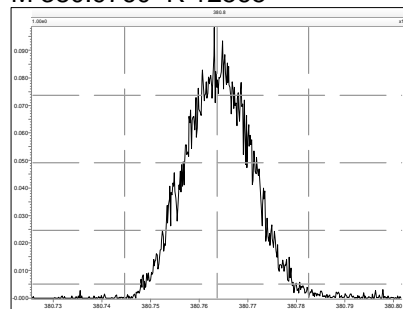
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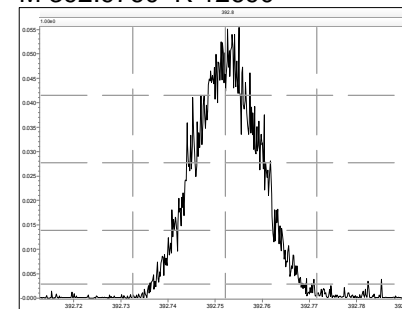
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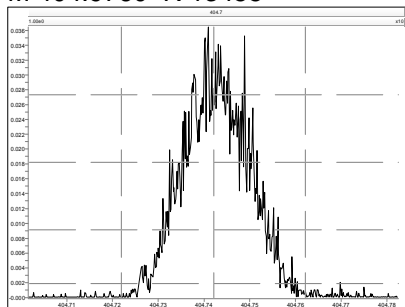
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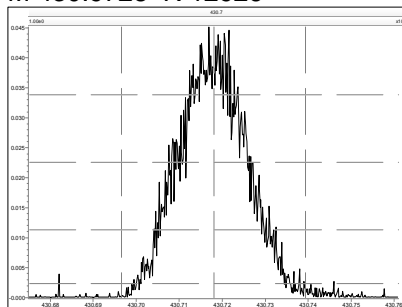
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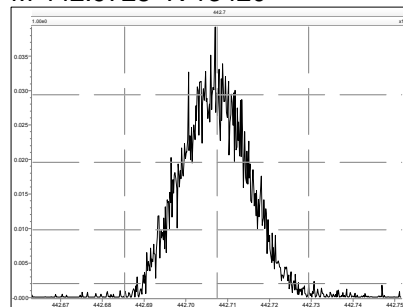
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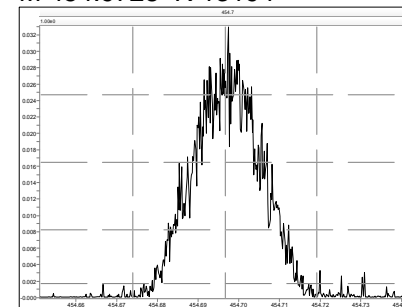
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M 442.9728 R 13420



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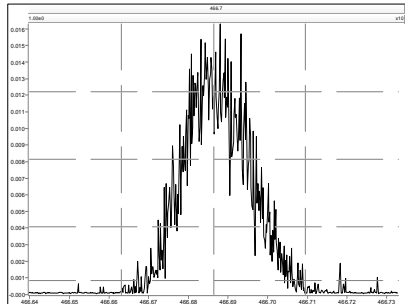
## Resolution Check Report

MassLynx 4.1 SCN 881

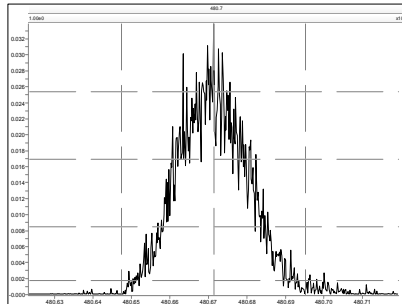
Page 5 of 5

Printed: Friday, April 04, 2014 06:36:11 Eastern Daylight Time

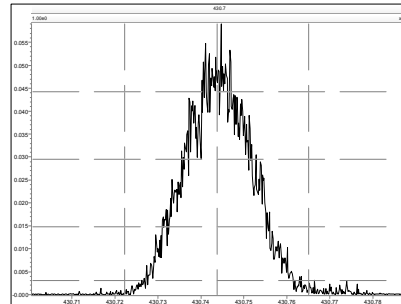
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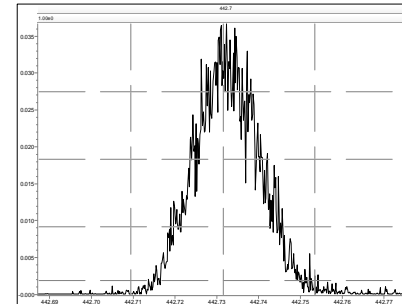
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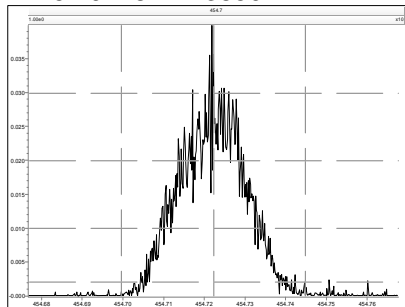
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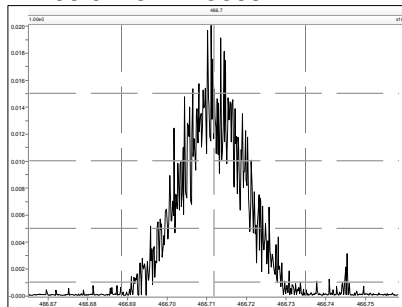
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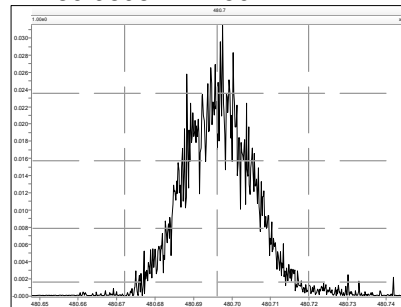
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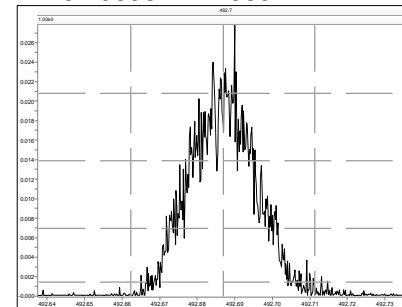
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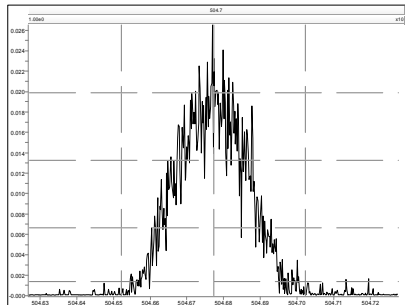
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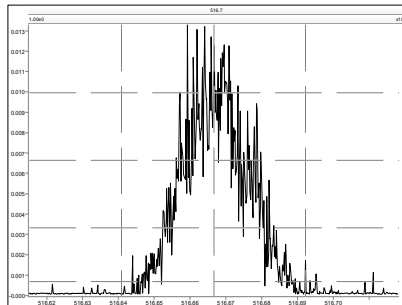
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Date Processed: 3 Jan 2014 16:52			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
PCB-77 33'44'-TeCB	1.15	4.1%	1.17	1.11	1.09	1.14	1.17	1.22	
PCB-81 344'5'-TeCB	1.12	3.1%	1.08	1.13	1.08	1.12	1.14	1.17	
PCB-105 233'44'-PeCB	1.11	5.1%	1.13	1.02	1.07	1.13	1.15	1.18	
PCB-114 2344'5'-PeCB	1.20	4.8%	1.14	1.16	1.15	1.23	1.24	1.29	
PCB-118 23'44'5'-PeCB	1.19	4.2%	1.20	1.13	1.13	1.22	1.22	1.25	
PCB-123 23'44'5'-PeCB	1.21	2.4%	1.20	1.20	1.16	1.23	1.23	1.25	
PCB-126 33'44'5'-PeCB	1.11	5.8%	1.05	1.07	1.05	1.12	1.14	1.21	
PCB-156/157 ...-HxCB	1.10	4.0%	1.07	1.07	1.05	1.12	1.11	1.17	
PCB-167 23'44'55'-HxCB	1.16	4.0%	1.11	1.13	1.12	1.20	1.18	1.23	
PCB-169 33'44'55'-HxCB	1.12	3.5%	1.12	1.07	1.09	1.16	1.14	1.17	
PCB-189 233'44'55'-HpCB	1.07	5.0%	1.08	1.00	1.03	1.07	1.10	1.16	
PCB-209 DeCB	1.11	3.9%	1.18	1.10	1.06	1.09	1.10	1.15	
ES PCB-1	1.19	3.7%	1.25	1.22	1.21	1.18	1.17	1.13	
ES PCB-3	1.09	2.3%	1.12	1.09	1.10	1.06	1.08	1.06	
ES PCB-4	0.52	0.7%	0.52	0.52	0.53	0.52	0.52	0.53	
ES PCB-15	1.04	1.1%	1.04	1.04	1.05	1.02	1.05	1.05	
ES PCB-19	0.51	1.4%	0.50	0.50	0.51	0.50	0.51	0.52	
ES PCB-37	1.66	1.8%	1.69	1.64	1.68	1.61	1.66	1.69	
ES PCB-54	0.86	1.0%	0.86	0.86	0.88	0.85	0.86	0.85	
ES PCB-77	1.38	1.8%	1.38	1.37	1.42	1.34	1.38	1.40	
ES PCB-81	1.37	2.5%	1.37	1.35	1.36	1.32	1.38	1.42	
ES PCB-104	0.80	1.7%	0.82	0.80	0.82	0.80	0.79	0.78	
ES PCB-105	1.20	2.5%	1.22	1.21	1.25	1.18	1.18	1.17	
ES PCB-114	1.22	2.3%	1.24	1.22	1.26	1.19	1.21	1.19	
ES PCB-118	1.16	2.4%	1.19	1.17	1.19	1.13	1.14	1.14	
ES PCB-123	1.19	1.2%	1.19	1.20	1.20	1.16	1.19	1.18	
ES PCB-126	1.03	3.2%	1.07	1.02	1.07	0.99	1.01	1.01	
ES PCB-153	1.11	1.4%	1.14	1.11	1.13	1.10	1.11	1.10	
ES PCB-155	1.59	3.0%	1.66	1.60	1.63	1.56	1.56	1.52	
ES PCB-156/157	1.60	2.0%	1.60	1.57	1.63	1.56	1.64	1.61	
ES PCB-167	1.67	2.0%	1.68	1.65	1.71	1.62	1.70	1.65	
ES PCB-169	1.56	2.3%	1.54	1.53	1.58	1.51	1.60	1.58	
ES PCB-170	0.95	1.9%	0.92	0.93	0.96	0.95	0.95	0.97	
ES PCB-180	1.14	3.6%	1.11	1.10	1.13	1.11	1.16	1.21	
ES PCB-188	0.94	1.9%	0.97	0.93	0.96	0.92	0.93	0.93	
ES PCB-189	1.58	1.1%	1.61	1.57	1.60	1.57	1.57	1.58	
ES PCB-202	0.97	1.2%	0.96	0.96	0.99	0.97	0.97	0.97	
ES PCB-205	1.24	0.9%	1.24	1.23	1.26	1.24	1.25	1.25	
ES PCB-206	0.83	1.4%	0.83	0.82	0.85	0.83	0.83	0.82	



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 3 Jan 2014 16:53
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013			131220X02	131220X03	131220X04	131220X05	131220X06	131220X08	
			0.5	1	5	50	400	2000	
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5	
ES PCB-208	1.17	1.4%	1.16	1.16	1.20	1.17	1.18	1.19	
ES PCB-209	1.11	1.9%	1.12	1.10	1.14	1.11	1.11	1.08	
SS PCB-28	1.11	1.2%	1.12	1.12	1.11	1.12	1.11	1.09	
SS PCB-111	1.03	1.6%	1.04	1.02	1.03	1.05	1.00	1.03	
SS PCB-178	0.62	2.7%	0.64	0.61	0.61	0.61	0.61	0.64	
CS PCB-28	1.85	1.4%	1.89	1.84	1.86	1.81	1.84	1.83	
CS PCB-111	1.22	1.4%	1.24	1.22	1.23	1.22	1.19	1.21	
CS PCB-178	0.58	3.7%	0.62	0.57	0.58	0.56	0.57	0.60	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46	
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53	
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29	
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24	
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31	
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31	
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10	
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13	
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19	
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18	

PCB ICAL Summary - Ax2 Detail			SGS Analytical Perspectives					Printed: 3 Jan 2014 16:53	
ICAL: 131220 QC MM7									
Acquired: 20 Dec 2013									
Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5	
PCB-1 2-MoCB	0.95	3.4%	0.99	0.94	0.92	0.97	0.98	0.91	
PCB-2 3-MoCB	1.03	3.8%	1.02	1.01	0.98	1.08	1.08	1.02	
PCB-3 4-MoCB	1.01	2.9%	1.00	0.98	0.98	1.04	1.05	1.00	
PCB-4 22'-DiCB	1.23	3.8%	1.17	1.20	1.20	1.27	1.27	1.29	
PCB-10 26-DiCB	1.98	3.9%	1.91	1.90	1.93	2.05	2.04	2.06	
PCB-9 25-DiCB	0.95	2.8%	0.93	0.95	0.90	0.96	0.96	0.97	
PCB-7 24-DiCB	1.05	5.7%	0.95	1.03	1.02	1.09	1.08	1.11	
PCB-6 23'-DiCB	1.00	4.5%	0.97	0.94	0.96	1.03	1.03	1.05	
PCB-5 23-DiCB	1.00	4.8%	1.03	0.92	0.96	1.02	1.02	1.05	
PCB-8 24'-DiCB	1.03	3.2%	1.07	0.99	1.00	1.04	1.03	1.07	
PCB-14 35-DiCB	1.18	3.9%	1.14	1.14	1.15	1.20	1.21	1.25	
PCB-11 33'-DiCB	1.01	4.5%	0.98	0.95	0.99	1.03	1.04	1.07	
PCB-13/12 34'/34-DiCB	0.99	6.8%	0.88	0.96	0.97	1.02	1.03	1.07	
PCB-15 44'-DiCB	1.02	3.8%	1.01	0.98	0.98	1.03	1.04	1.08	
PCB-19 22'6-TrCB	1.15	2.5%	1.13	1.12	1.12	1.17	1.16	1.19	
PCB-30/18 246/22'5-TrCB	1.54	3.5%	1.49	1.47	1.51	1.57	1.59	1.60	
PCB-17 22'4-TrCB	1.31	4.4%	1.23	1.28	1.27	1.33	1.34	1.38	
PCB-27 23'6-TrCB	1.82	3.6%	1.77	1.76	1.77	1.83	1.87	1.92	
PCB-24 236-TrCB	1.72	3.4%	1.67	1.69	1.67	1.74	1.73	1.83	
PCB-16 22'3-TrCB	1.01	4.3%	0.99	0.94	1.00	1.00	1.05	1.06	
PCB-32 24'6-TrCB	1.92	2.4%	1.90	1.91	1.85	1.93	1.93	1.99	
PCB-34 23'5'-TrCB	1.14	3.0%	1.11	1.09	1.11	1.15	1.18	1.16	
PCB-23 235-TrCB	1.16	4.1%	1.20	1.09	1.10	1.18	1.19	1.17	
PCB-26/29 23'5/245-TrCB	1.17	3.0%	1.15	1.14	1.13	1.20	1.21	1.21	
PCB-25 23'4-TrCB	1.16	2.6%	1.13	1.14	1.13	1.18	1.18	1.18	
PCB-31 24'5-TrCB	1.23	3.3%	1.25	1.16	1.19	1.26	1.24	1.25	
PCB-28/20 244'/233'-TrCB	1.13	3.6%	1.13	1.08	1.08	1.17	1.17	1.17	
PCB-21/33 234/23'4'-TrCB	1.17	3.3%	1.15	1.14	1.13	1.21	1.21	1.21	
PCB-22 234'-TrCB	1.08	2.8%	1.08	1.05	1.04	1.09	1.10	1.12	
PCB-36 33'5-TrCB	1.17	4.4%	1.13	1.12	1.13	1.19	1.21	1.24	
PCB-39 34'5-TrCB	1.21	4.1%	1.18	1.16	1.16	1.24	1.25	1.27	
PCB-38 345-TrCB	1.10	3.7%	1.07	1.08	1.06	1.14	1.16	1.11	
PCB-35 33'4-TrCB	1.04	4.6%	1.01	0.98	1.00	1.08	1.07	1.10	
PCB-37 344'-TrCB	1.08	4.7%	1.02	1.05	1.05	1.10	1.10	1.16	
PCB-54 22'66'-TeCB	1.35	2.1%	1.40	1.34	1.31	1.36	1.35	1.36	
PCB-50/53 22'46/22'56'-TeCB	0.88	2.7%	0.89	0.85	0.84	0.90	0.89	0.89	
PCB-45 22'36'-TeCB	0.77	5.4%	0.78	0.76	0.70	0.74	0.78	0.83	
PCB-51 22'46'-TeCB	0.86	5.9%	0.80	0.82	0.89	0.93	0.88	0.84	
PCB-46 22'36'-TeCB	0.70	2.5%	0.70	0.68	0.68	0.72	0.71	0.71	
PCB-52 22'55'-TeCB	0.84	1.7%	0.85	0.83	0.82	0.86	0.85	0.85	

PCB-73 23'5'6-TeCB	1.11	4.0%	1.13	1.06	1.06	1.12	1.12	1.17
PCB-43 22'35-TeCB	0.71	4.5%	0.68	0.68	0.72	0.77	0.72	0.70
PCB-69/49 23'46/22'45'-TeCB	1.02	3.4%	0.99	0.98	0.99	1.05	1.05	1.06
PCB-48 22'45-TeCB	0.84	3.5%	0.83	0.79	0.83	0.87	0.85	0.87
PCB-44/47/65 ...-TeCB	0.90	3.3%	0.89	0.88	0.86	0.93	0.93	0.93
PCB-59/62/75 ...-TeCB	1.17	3.7%	1.13	1.13	1.13	1.21	1.22	1.18
PCB-42 22'34'-TeCB	0.76	2.8%	0.76	0.73	0.75	0.79	0.77	0.78
PCB-41 22'34-TeCB	0.69	4.3%	0.68	0.66	0.69	0.73	0.68	0.73
PCB-71/40 23'4'6/22'33'-TeCB	0.86	3.9%	0.84	0.82	0.83	0.87	0.90	0.89
PCB-64 234'6-TeCB	1.22	3.9%	1.17	1.18	1.18	1.27	1.25	1.28
PCB-72 23'55'-TeCB	1.21	2.1%	1.19	1.18	1.19	1.25	1.22	1.23
PCB-68 23'45'-TeCB	1.28	2.7%	1.26	1.24	1.24	1.31	1.31	1.30
PCB-57 233'5-TeCB	1.16	2.6%	1.18	1.11	1.16	1.20	1.16	1.17
PCB-58 233'5'-TeCB	1.18	2.9%	1.17	1.13	1.15	1.20	1.19	1.23
PCB-67 23'45-TeCB	1.26	1.9%	1.23	1.25	1.23	1.29	1.27	1.28
PCB-63 234'5-TeCB	1.30	3.1%	1.30	1.26	1.24	1.33	1.32	1.34
PCB-61/70/74/76 ...-TeCB	1.20	2.4%	1.20	1.16	1.16	1.23	1.22	1.21
PCB-66 23'44'-TeCB	1.10	3.3%	1.06	1.06	1.09	1.14	1.14	1.13
PCB-55 233'4-TeCB	1.12	2.3%	1.09	1.10	1.12	1.14	1.12	1.15
PCB-56 233'4'-TeCB	1.11	2.9%	1.13	1.05	1.10	1.13	1.12	1.13
PCB-60 2344'-TeCB	1.14	1.8%	1.13	1.12	1.11	1.15	1.14	1.16
PCB-80 33'55'-TeCB	1.31	2.3%	1.30	1.29	1.28	1.35	1.32	1.34
PCB-79 33'45'-TeCB	1.31	2.5%	1.26	1.33	1.28	1.31	1.35	1.32
PCB-78 33'45-TeCB	1.06	4.2%	1.04	0.99	1.04	1.10	1.08	1.11
PCB-104 22'466'-PeCB	1.43	1.5%	1.44	1.41	1.40	1.45	1.45	1.46
PCB-96 22'366'-PeCB	1.23	4.7%	1.12	1.24	1.20	1.26	1.28	1.27
PCB-103 22'45'6-PeCB	0.93	2.7%	0.91	0.91	0.91	0.96	0.95	0.95
PCB-94 22'356'-PeCB	0.80	3.3%	0.79	0.76	0.79	0.83	0.81	0.82
PCB-95 22'35'6-PeCB	0.87	3.9%	0.89	0.80	0.85	0.89	0.87	0.89
PCB-100/93 22'44'6/22'356-PeCB	0.86	3.5%	0.84	0.83	0.85	0.88	0.90	0.89
PCB-102 22'456'-PeCB	0.97	6.3%	0.97	0.93	0.99	1.03	0.87	1.02
PCB-98 22'34'6'-PeCB	0.76	8.5%	0.73	0.68	0.71	0.80	0.86	0.77
PCB-88 22'346-PeCB	0.80	11.9%	0.96	0.72	0.73	0.74	0.85	0.78
PCB-91 22'34'6-PeCB	0.94	10.7%	0.76	0.95	0.94	1.04	0.95	1.03
PCB-84 22'33'6-PeCB	0.72	4.5%	0.71	0.66	0.70	0.75	0.73	0.74
PCB-89 22'346'-PeCB	0.76	3.8%	0.73	0.74	0.75	0.80	0.78	0.79
PCB-121 23'45'6-PeCB	1.20	3.2%	1.18	1.15	1.16	1.23	1.23	1.24
PCB-92 22'355'-PeCB	0.82	2.3%	0.82	0.81	0.79	0.84	0.83	0.84
PCB-113/90/101 ...-PeCB	0.99	2.4%	0.98	0.96	0.96	1.00	1.01	1.01
PCB-83 22'33'5-PeCB	0.71	4.0%	0.77	0.70	0.71	0.72	0.70	0.69
PCB-99 22'44'5-PeCB	0.92	6.0%	0.88	0.88	0.88	0.91	0.98	1.00
PCB-112 233'56-PeCB	1.17	3.9%	1.12	1.12	1.16	1.24	1.17	1.18
PCB-108/119/86/97/125...-PeCB	0.98	3.2%	0.98	0.94	0.95	1.01	1.02	0.97
PCB-117 234'56-PeCB	1.14	6.9%	1.02	1.15	1.15	1.17	1.09	1.25
PCB-116/85 23456/22'344'-PeCB	0.94	6.2%	1.02	0.87	0.88	0.94	0.99	0.95
PCB-110 233'4'6-PeCB	1.12	6.3%	1.09	1.07	1.06	1.25	1.11	1.13
PCB-115 2344'6-PeCB	1.16	4.4%	1.18	1.11	1.16	1.10	1.16	1.24

PCB-82 22'33'4-PeCB	0.70	3.4%	0.69	0.67	0.67	0.70	0.72	0.73
PCB-111 233'55'-PeCB	1.22	2.9%	1.23	1.17	1.19	1.25	1.23	1.26
PCB-120 23'455'-PeCB	1.21	4.3%	1.18	1.14	1.18	1.24	1.25	1.28
PCB-107/124 ...-PeCB	1.10	4.7%	1.07	1.03	1.07	1.14	1.12	1.17
PCB-109 233'46-PeCB	1.25	8.6%	1.26	1.05	1.26	1.33	1.26	1.36
PCB-106 233'45-PeCB	1.11	3.3%	1.12	1.08	1.04	1.12	1.13	1.14
PCB-122 233'4'5'-PeCB	0.99	4.1%	0.97	0.96	0.95	1.01	1.02	1.06
PCB-127 33'455'-PeCB	1.10	5.5%	1.09	1.04	1.03	1.11	1.12	1.19
PCB-155 22'44'66'-HxCB	1.26	2.3%	1.23	1.25	1.23	1.27	1.29	1.29
PCB-152 22'3566'-HxCB	1.17	4.1%	1.16	1.12	1.13	1.16	1.23	1.23
PCB-150 22'34'66'-HxCB	1.18	3.7%	1.18	1.10	1.15	1.20	1.21	1.22
PCB-136 22'33'66'-HxCB	1.07	6.5%	1.01	0.98	1.04	1.09	1.12	1.16
PCB-145 22'3466'-HxCB	1.11	3.0%	1.13	1.09	1.06	1.12	1.14	1.16
PCB-148 22'34'56'-HxCB	1.18	4.0%	1.14	1.14	1.16	1.19	1.23	1.25
PCB-151/135 ...-HxCB	1.14	2.4%	1.11	1.13	1.12	1.14	1.16	1.18
PCB-154 22'44'56'-HxCB	1.34	3.1%	1.38	1.29	1.30	1.33	1.37	1.38
PCB-144 22'345'6-HxCB	1.18	3.1%	1.22	1.12	1.17	1.19	1.20	1.20
PCB-147/149 ...-HxCB	1.18	3.5%	1.12	1.15	1.16	1.18	1.21	1.23
PCB-134 22'33'56'-HxCB	0.92	4.3%	0.97	0.90	0.88	0.89	0.96	0.94
PCB-143 22'3456'-HxCB	1.13	3.3%	1.07	1.10	1.14	1.18	1.12	1.16
PCB-139/140 ...-HxCB	1.21	3.3%	1.20	1.16	1.17	1.20	1.24	1.27
PCB-131 22'33'46-HxCB	1.03	2.7%	1.02	1.02	0.98	1.03	1.04	1.06
PCB-142 22'3456-HxCB	0.99	4.9%	0.96	0.92	0.97	1.01	1.03	1.06
PCB-132 22'33'46'-HxCB	1.03	2.0%	1.03	1.01	1.01	1.03	1.03	1.06
PCB-133 22'33'55'-HxCB	1.13	2.8%	1.13	1.11	1.09	1.13	1.16	1.17
PCB-165 233'55'6-HxCB	1.41	1.5%	1.41	1.39	1.40	1.42	1.39	1.44
PCB-146 22'34'55'-HxCB	1.20	3.4%	1.19	1.16	1.17	1.19	1.24	1.26
PCB-161 233'45'6-HxCB	1.52	3.6%	1.50	1.44	1.50	1.54	1.55	1.60
PCB-153/168 ...-HxCB	1.46	3.7%	1.38	1.42	1.43	1.48	1.50	1.53
PCB-141 22'3455'-HxCB	1.09	2.5%	1.10	1.05	1.07	1.10	1.10	1.12
PCB-130 22'33'45'-HxCB	0.97	1.8%	0.97	0.95	0.96	0.97	0.98	1.00
PCB-137 22'344'5-HxCB	1.16	5.1%	1.19	1.14	1.10	1.10	1.22	1.24
PCB-164 233'4'5'6-HxCB	1.50	5.4%	1.35	1.48	1.52	1.58	1.51	1.55
PCB-163/138/129 ...-HxCB	1.19	4.0%	1.18	1.15	1.14	1.17	1.23	1.27
PCB-160 233'456-HxCB	1.52	2.3%	1.49	1.48	1.49	1.55	1.56	1.52
PCB-158 233'44'6-HxCB	1.66	2.4%	1.69	1.64	1.62	1.63	1.67	1.72
PCB-128/166 ...-HxCB	0.90	5.7%	0.86	0.86	0.85	0.91	0.93	0.98
PCB-159 233'455'-HxCB	1.11	3.3%	1.09	1.11	1.07	1.13	1.12	1.17
PCB-162 233'4'55'-HxCB	1.07	5.3%	1.03	1.01	1.03	1.11	1.10	1.15
PCB-188 22'34'566'-HpCB	1.27	3.1%	1.23	1.32	1.22	1.26	1.28	1.31
PCB-179 22'33'566'-HpCB	1.16	1.6%	1.19	1.16	1.13	1.17	1.16	1.15
PCB-184 22'344'66'-HpCB	1.13	2.7%	1.14	1.09	1.10	1.13	1.13	1.17
PCB-176 22'33'466'-HpCB	1.23	1.7%	1.21	1.22	1.22	1.25	1.24	1.26
PCB-186 22'34566'-HpCB	1.13	1.5%	1.14	1.11	1.10	1.14	1.12	1.14
PCB-178 22'33'55'6-HpCB	0.84	3.8%	0.88	0.80	0.82	0.84	0.84	0.88
PCB-175 22'33'45'6-HpCB	1.07	4.2%	1.02	1.05	1.05	1.08	1.10	1.15
PCB-187 22'34'55'6-HpCB	1.14	4.0%	1.08	1.12	1.11	1.15	1.17	1.21

PCB-182 22'344'56'-HpCB	1.18	4.7%	1.09	1.14	1.16	1.22	1.21	1.23
PCB-183 22'344'5'6'-HpCB	1.20	3.5%	1.16	1.18	1.21	1.28	1.18	1.22
PCB-185 22'3455'6'-HpCB	1.06	9.3%	0.95	1.03	0.99	1.03	1.15	1.21
PCB-174 22'33'456'-HpCB	0.99	4.3%	0.93	1.04	0.96	1.00	0.98	1.03
PCB-177 22'33'45'6'-HpCB	0.95	2.6%	0.93	0.94	0.93	0.95	0.96	0.99
PCB-181 22'344'56'-HpCB	1.09	4.9%	1.03	1.07	1.04	1.11	1.12	1.17
PCB-171/173 ...-HpCB	0.95	5.3%	0.90	0.90	0.92	0.97	0.98	1.03
PCB-172 22'33'455'-HpCB	0.99	3.7%	0.96	0.97	0.95	1.02	1.00	1.04
PCB-192 233'455'6'-HpCB	1.29	5.1%	1.17	1.27	1.28	1.32	1.32	1.36
PCB-180/193 ...-HpCB	1.26	2.7%	1.26	1.22	1.23	1.27	1.27	1.31
PCB-191 233'44'5'6'-HpCB	1.40	2.6%	1.41	1.40	1.33	1.40	1.40	1.44
PCB-170 22'33'44'5'-HpCB	1.14	6.1%	1.09	1.06	1.09	1.15	1.19	1.24
PCB-190 233'44'56'-HpCB	1.66	5.4%	1.63	1.58	1.58	1.66	1.69	1.82
PCB-202 22'33'55'66'-OcCB	1.05	3.2%	1.05	1.05	1.00	1.06	1.06	1.10
PCB-201 22'33'45'66'-OcCB	1.22	3.2%	1.16	1.22	1.19	1.24	1.27	1.24
PCB-204 22'344'566'-OcCB	1.12	2.5%	1.10	1.13	1.08	1.12	1.12	1.16
PCB-197 22'33'44'66'-OcCB	1.19	5.1%	1.26	1.16	1.11	1.15	1.21	1.26
PCB-200 22'33'4566'-OcCB	1.11	5.6%	1.03	1.04	1.12	1.16	1.12	1.17
PCB-198/199 ...-OcCB	0.81	3.2%	0.80	0.79	0.78	0.80	0.82	0.86
PCB-196 22'33'44'56'-OcCB	0.83	2.8%	0.84	0.80	0.82	0.84	0.84	0.87
PCB-203 22'344'55'6'-OcCB	0.87	2.5%	0.87	0.85	0.85	0.88	0.88	0.91
PCB-195 22'33'44'56'-OcCB	0.77	4.3%	0.79	0.74	0.73	0.75	0.77	0.82
PCB-194 22'33'44'55'-OcCB	0.84	3.5%	0.88	0.82	0.81	0.84	0.85	0.88
PCB-205 233'44'55'6'-OcCB	1.06	4.0%	1.07	1.03	1.01	1.06	1.07	1.13
PCB-208 22'33'455'66'-NoCB	1.12	3.8%	1.09	1.11	1.07	1.13	1.14	1.19
PCB-207 22'33'44'566'-NoCB	1.19	3.1%	1.20	1.16	1.14	1.20	1.20	1.24
PCB-206 22'33'44'55'6'-NoCB	1.11	3.0%	1.09	1.11	1.08	1.11	1.12	1.18

Ax	RSD	Mean	sd	MM7_PCB_01102012_25 MM7_PCB_07132012_25 MM7_PCB_07122013_1 MM7_PCB_10292013_2				RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	0DEC2013				
77	10.6	1.04	0.11	1.11	1.13	1.34	1.15	8.8	1.18	0.10	-4.3%
81	9.6	1.08	0.10	1.13	1.13	1.13	1.12	0.4	1.13	0.00	0.1%
105	4.6	0.96	0.04	1.11	1.09	1.15	1.11	2.1	1.11	0.02	-1.9%
114	4.9	0.96	0.05	1.18	1.16	1.22	1.2	2.1	1.19	0.02	-2.4%
118	6.8	0.95	0.06	1.11	1.11	1.17	1.19	3.7	1.15	0.04	-3.4%
123	3.9	0.97	0.04	1.08	1.19	1.27	1.21	6.5	1.19	0.08	0.2%
126	8.6	1.00	0.09	1.07	1.06	1.12	1.11	2.9	1.09	0.03	-2.6%
156/157	6.4	0.99	0.06	1.09	1.11	1.18	1.1	3.7	1.12	0.04	-1.2%
167	5.8	0.98	0.06	1.14	1.14	1.23	1.16	3.8	1.17	0.04	-2.8%
169	4.5	0.97	0.04	1.09	1.11	1.19	1.12	3.7	1.13	0.04	-1.5%
189	14.7	0.95	0.14	1.07	1.06	1.09	1.07	1.3	1.07	0.01	-1.4%
1	9.3	1.16	0.11	1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
3	9.5	1.16	0.11	0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
4	4.7	1.03	0.05	1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
15	11.8	1.02	0.12	0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
19	4.7	1.04	0.05	1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
37	12.1	1.06	0.13	1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
54	4.3	1.06	0.05	1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
104	5.4	1.01	0.05	1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
153				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
155	3.2	1.02	0.03	1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
170				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
180				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
188	4.2	1.02	0.04	1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
202	3.0	0.91	0.03	0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
205	5.4	0.96	0.05	1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
208	2.3	0.93	0.02	1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
206	3.2	0.97	0.03	0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.2%
209	7.0	0.95	0.07	1.07	1.07	1.13	1.11	2.6	1.10	0.03	-2.1%
<b>ES</b>											
1	6.7	1.01	0.07	1.08	1.08	1.20	1.19	6.0	1.14	0.07	-5.0%
3	5.5	1.02	0.06	1.14	1.08	1.14	1.09	2.7	1.11	0.03	-2.7%
4	10.0	0.69	0.07	0.50	0.49	0.57	0.52	6.8	0.52	0.04	-6.0%
15	4.2	1.06	0.04	1.18	1.11	1.07	1.04	5.5	1.10	0.06	0.8%
19	6.3	0.62	0.04	0.53	0.55	0.57	0.51	4.8	0.54	0.03	2.3%
37	10.4	1.36	0.14	1.64	1.64	1.55	1.66	2.9	1.62	0.05	0.8%
54	7.3	1.18	0.09	0.87	0.94	0.86	0.86	4.4	0.88	0.04	6.5%
77	11.1	1.23	0.14	1.26	1.35	1.11	1.38	9.6	1.27	0.12	5.7%
81	9.4	1.19	0.11	1.20	1.29	1.26	1.37	5.6	1.28	0.07	0.7%
104	8.0	1.33	0.11	1.08	0.99	0.89	0.8	13.2	0.94	0.12	5.6%
105	4.1	1.27	0.05	1.22	1.23	1.23	1.2	1.2	1.22	0.02	1.1%
114	4.2	1.31	0.05	1.24	1.25	1.24	1.22	1.0	1.24	0.01	0.7%
118	5.3	1.31	0.07	1.28	1.28	1.26	1.16	4.6	1.24	0.06	3.0%
123	3.9	1.24	0.05	1.35	1.22	1.21	1.19	5.9	1.24	0.07	-2.0%
126	6.7	1.30	0.09	1.22	1.20	1.09	1.03	7.9	1.14	0.09	5.6%
153				1.10	1.14	1.15	1.11	2.1	1.13	0.02	1.3%
155	7.0	1.42	0.10	1.41	1.50	1.56	1.59	5.1	1.51	0.08	-1.2%
156/157	7.7	1.22	0.09	1.41	1.45	1.59	1.6	6.4	1.51	0.10	-3.9%
167	7.6	1.25	0.09	1.43	1.49	1.68	1.67	8.1	1.57	0.13	-4.6%
169	8.1	1.23	0.10	1.37	1.40	1.42	1.56	5.8	1.44	0.08	-2.4%
170				1.04	1.00	0.93	0.95	5.1	0.98	0.05	2.1%
180				1.28	1.16	1.12	1.14	6.3	1.17	0.07	-1.3%
188	8.5	1.27	0.11	1.12	1.18	1.23	0.94	11.4	1.12	0.13	5.3%
189	7.8	1.52	0.12	1.53	1.49	1.46	1.58	3.5	1.51	0.05	-1.8%
202	6.6	1.18	0.08	1.07	1.14	1.10	0.97	6.7	1.07	0.07	6.4%
205	3.9	1.27	0.05	1.26	1.20	1.22	1.24	2.0	1.23	0.02	-2.2%
206	11.3	0.97	0.11	0.90	0.87	0.95	0.83	5.9	0.89	0.05	-2.1%
208	10.2	1.27	0.13	1.22	1.19	1.19	1.17	1.7	1.19	0.02	-0.2%

1668A/B ICALs				Historica Data									
Ax	RSD	Mean	sd	MM7_PCB_01102012_25 JUL12	MM7_PCB_07132012_25 JUL12	MM7_PCB_07122013_1 9JUL2013	MM7_PCB_10292013_2 ODEC2013	RSD	Mean	sd	PD from Mean		
209	8.3	1.20	0.10	1.06	1.00	1.12	1.11	5.1	1.07	0.06	-6.8%		
<b>SS</b>													
28	3.6	1.05	0.04	0.98	1.07	1.10	1.11	5.6	1.07	0.06	0.8%		
111	4.0	1.05	0.04	0.90	1.01	1.08	1.03	7.5	1.00	0.07	0.2%		
178	3.9	0.71	0.03	0.62	0.63	0.57	0.62	4.4	0.61	0.03	3.1%		

Additional Ax	RSD	Mean	sd					RSD	Mean	sd	PD from Historical Mean
PCB-1 2-MoCB				1.02	1.03	0.93	0.95	5.1	0.98	0.05	4.9%
PCB-2 3-MoCB				0.97	1.04	0.97	1.03	3.7	1.00	0.04	3.8%
PCB-3 4-MoCB				0.98	1.04	0.97	1.01	3.4	1.00	0.03	4.4%
PCB-4 22-DiCB				1.11	1.17	1.13	1.23	4.5	1.16	0.05	0.8%
PCB-10 26-DiCB				1.71	1.83	1.75	1.98	6.5	1.82	0.12	0.7%
PCB-9 25-DiCB				0.83	0.89	0.90	0.95	5.7	0.89	0.05	0.4%
PCB-7 24-DiCB				0.95	1.02	1.02	1.05	4.3	1.01	0.04	1.4%
PCB-6 23-DiCB				0.89	0.95	0.96	1.00	4.7	0.95	0.04	-0.2%
PCB-5 23-DiCB				0.89	0.97	0.97	1.00	4.7	0.96	0.05	1.4%
PCB-8 24-DiCB				0.93	0.98	1.00	1.03	4.3	0.99	0.04	-0.2%
PCB-14 35-DiCB				1.07	1.16	1.15	1.18	4.2	1.14	0.05	1.5%
PCB-11 33-DiCB				0.94	1.00	0.99	1.01	3.3	0.98	0.03	1.7%
PCB-13/12 34-/34-DiCB				0.95	1.02	0.99	0.99	2.8	0.99	0.03	3.2%
PCB-15 44-DiCB				0.99	1.08	1.05	1.02	3.9	1.03	0.04	4.5%
PCB-19 226-TrCB				1.10	1.09	1.10	1.15	2.3	1.11	0.03	-1.7%
PCB-30/18 246-/225-TrCB				1.48	1.46	1.45	1.54	2.6	1.48	0.04	-1.6%
PCB-17 224-TrCB				1.28	1.25	1.26	1.31	2.0	1.28	0.03	-1.9%
PCB-27 236-TrCB				1.70	1.69	1.68	1.82	3.8	1.72	0.07	-1.8%
PCB-24 236-TrCB				1.63	1.63	1.60	1.72	3.1	1.65	0.05	-0.7%
PCB-16 223-TrCB				0.97	0.95	0.96	1.01	2.6	0.97	0.03	-2.1%
PCB-32 246-TrCB				1.81	1.79	1.84	1.92	3.1	1.84	0.06	-2.8%
PCB-34 235-TrCB				0.98	1.05	1.04	1.14	6.4	1.05	0.07	-0.3%
PCB-23 235-TrCB				0.98	1.06	1.07	1.16	6.9	1.07	0.07	-0.8%
PCB-26/29 235-/245-TrCB				1.00	1.09	1.07	1.17	6.3	1.08	0.07	0.3%
PCB-25 234-TrCB				0.99	1.07	1.09	1.16	6.5	1.08	0.07	-0.3%
PCB-31 245-TrCB				1.03	1.11	1.13	1.23	7.2	1.13	0.08	-1.3%
PCB-28/20 244-/233-TrCB				0.98	1.07	1.06	1.13	5.6	1.06	0.06	0.7%
PCB-21/33 234-/234-TrCB				1.01	1.09	1.08	1.17	6.0	1.09	0.06	0.3%
PCB-22 234-TrCB				0.93	1.02	1.00	1.08	6.0	1.01	0.06	0.8%
PCB-36 335-TrCB				1.03	1.13	1.09	1.17	5.4	1.10	0.06	2.1%
PCB-39 345-TrCB				1.10	1.17	1.13	1.21	4.1	1.15	0.05	1.2%
PCB-38 345-TrCB				0.95	1.03	1.02	1.10	5.9	1.02	0.06	0.7%
PCB-35 334-TrCB				0.96	1.04	1.00	1.04	4.0	1.01	0.04	3.2%
PCB-37 344-TrCB				1.00	1.10	1.05	1.08	4.2	1.06	0.04	4.3%
PCB-54 2266-TeCB				1.18	1.21	1.24	1.35	6.0	1.25	0.07	-3.0%
PCB-50/53 2246-/2256-TeCB				0.85	0.86	0.88	0.88	2.0	0.87	0.02	-1.1%
PCB-45 2236-TeCB				0.75	0.73	0.76	0.77	2.2	0.75	0.02	-2.8%
PCB-51 2246-TeCB				0.85	0.88	0.91	0.86	3.2	0.87	0.03	0.6%
PCB-46 2236-TeCB				0.68	0.70	0.71	0.70	1.6	0.70	0.01	-0.3%
PCB-52 2255-TeCB				0.82	0.84	0.86	0.84	2.0	0.84	0.02	0.3%
PCB-73 2356TeCB				1.10	1.09	1.13	1.11	1.4	1.11	0.02	-1.5%
PCB-43 2235-TeCB				0.66	0.72	0.72	0.71	4.5	0.70	0.03	3.0%
PCB-69/49 2346-/2245-TeCB				1.00	1.01	1.05	1.02	2.1	1.02	0.02	-0.8%
PCB-48 2245-TeCB				0.83	0.85	0.87	0.84	1.7	0.85	0.01	0.4%
PCB-44/47/65 2235-/2244-				0.88	0.89	0.91	0.90	1.5	0.90	0.01	-0.8%
PCB-59/62/75 2336-/2346-/24				1.12	1.14	1.18	1.17	2.4	1.15	0.03	-1.2%
PCB-42 2234-TeCB				0.77	0.77	0.81	0.76	2.9	0.78	0.02	-0.8%
PCB-41 2234-TeCB				0.72	0.73	0.71	0.69	2.2	0.71	0.02	2.1%
PCB-71/40 2346/2233-TeCB				0.85	0.87	0.88	0.86	1.5	0.86	0.01	0.2%
PCB-64 2346-TeCB				1.21	1.24	1.26	1.22	1.7	1.23	0.02	0.5%

Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from
				JUL12	JUL12	9JUL2013	0DEC2013				Mean
PCB-72 23'55'-TeCB				1.13	1.14	1.17	1.21	3.0	1.16	0.03	-1.8%
PCB-68 23'45'-TeCB				1.21	1.21	1.26	1.28	2.8	1.24	0.04	-2.5%
PCB-57 23'3'5'-TeCB				1.10	1.11	1.12	1.16	2.3	1.12	0.03	-1.4%
PCB-58 23'3'5'-TeCB				1.11	1.10	1.16	1.18	3.4	1.14	0.04	-3.4%
PCB-67 23'45'-TeCB				1.15	1.16	1.20	1.26	4.2	1.19	0.05	-2.8%
PCB-63 23'4'5'-TeCB				1.22	1.22	1.25	1.30	3.1	1.25	0.04	-2.6%
PCB-61/70/74/76 23'45'-/23'4'5'				1.13	1.13	1.17	1.20	2.8	1.16	0.03	-2.3%
PCB-66 23'44'-TeCB				1.06	1.08	1.10	1.10	1.7	1.09	0.02	-0.9%
PCB-55 23'3'4'-TeCB				1.09	1.10	1.11	1.12	1.3	1.10	0.01	-0.6%
PCB-56 23'3'4'-TeCB				1.05	1.06	1.07	1.11	2.4	1.07	0.03	-1.7%
PCB-60 23'44'-TeCB				1.12	1.11	1.15	1.14	1.5	1.13	0.02	-1.5%
PCB-80 33'55'-TeCB				1.26	1.25	1.27	1.31	2.1	1.27	0.03	-1.5%
PCB-79 33'45'-TeCB				1.26	1.23	1.28	1.31	2.6	1.27	0.03	-2.9%
PCB-78 33'45'-TeCB				1.09	1.08	1.05	1.06	1.6	1.07	0.02	0.9%
PCB-104 22'466'-PeCB				1.11	1.25	1.31	1.43	10.2	1.28	0.13	-1.7%
PCB-96 22'366'-PeCB				0.98	1.08	1.12	1.23	9.5	1.10	0.10	-2.4%
PCB-103 22'45'6'-PeCB				0.80	0.90	0.95	0.93	7.2	0.90	0.06	0.6%
PCB-94 22'356'-PeCB				0.70	0.78	0.81	0.80	6.6	0.77	0.05	0.4%
PCB-95 22'35'6'-PeCB				0.75	0.83	0.88	0.87	7.5	0.83	0.06	-0.7%
PCB-100/93 22'44'6'-/22'356'-P				0.76	0.84	0.90	0.86	6.9	0.84	0.06	0.2%
PCB-102 22'456'-PeCB				0.82	0.90	0.98	0.97	8.1	0.92	0.07	-1.9%
PCB-98 22'3'46'-PeCB				0.69	0.77	0.80	0.76	5.9	0.76	0.04	2.4%
PCB-88 22'346'-PeCB				0.67	0.79	0.77	0.80	7.8	0.76	0.06	4.7%
PCB-91 22'34'6'-PeCB				0.84	0.88	1.00	0.94	7.5	0.91	0.07	-3.8%
PCB-84 22'33'6'-PeCB				0.65	0.71	0.72	0.72	5.2	0.70	0.04	1.4%
PCB-89 22'346'-PeCB				0.68	0.76	0.78	0.76	6.0	0.75	0.04	1.9%
PCB-121 23'45'6'-PeCB				1.02	1.14	1.20	1.20	7.4	1.14	0.08	0.2%
PCB-92 22'355'-PeCB				0.73	0.80	0.84	0.82	6.0	0.80	0.05	0.2%
PCB-113/90/101 23'3'5'6'-/22'3				0.85	0.93	0.99	0.99	7.0	0.94	0.07	-0.9%
PCB-83 22'33'5'-PeCB				0.63	0.71	0.72	0.71	5.7	0.69	0.04	2.8%
PCB-99 22'44'5'-PeCB				0.82	0.87	0.95	0.92	6.5	0.89	0.06	-2.1%
PCB-112 23'3'56'-PeCB				1.01	1.13	1.17	1.17	6.7	1.12	0.07	0.7%
PCB-108/119/86/97/125/87 233				0.87	0.95	1.01	0.98	6.4	0.95	0.06	-0.1%
PCB-117 23'4'56'-PeCB				0.96	1.04	1.05	1.14	7.2	1.05	0.08	-0.7%
PCB-116/85 23'456'-/22'344'-Pe				0.87	0.97	1.03	0.94	7.0	0.95	0.07	2.2%
PCB-110 23'3'4'6'-PeCB				0.95	1.02	1.11	1.12	7.7	1.05	0.08	-2.6%
PCB-115 23'44'6'-PeCB				1.02	1.16	1.21	1.16	6.9	1.14	0.08	1.8%
PCB-82 22'33'4'-PeCB				0.63	0.69	0.72	0.70	5.5	0.68	0.04	0.9%
PCB-111 23'3'55'-PeCB				1.05	1.15	1.22	1.22	7.0	1.16	0.08	-0.5%
PCB-120 23'455'-PeCB				1.05	1.16	1.22	1.21	6.5	1.16	0.08	-0.1%
PCB-107/124 23'3'4'5'-/2'3455'				0.99	1.07	1.11	1.10	5.3	1.07	0.06	0.6%
PCB-109 23'3'46'-PeCB				1.05	1.14	1.18	1.25	7.1	1.16	0.08	-1.2%
PCB-106 23'3'45'-PeCB				0.98	1.07	1.11	1.11	5.6	1.07	0.06	0.1%
PCB-122 2'33'45'-PeCB				1.01	1.00	1.01	0.99	1.0	1.00	0.01	-0.2%
PCB-127 33'455'-PeCB				1.12	1.10	1.08	1.10	1.5	1.10	0.02	-0.1%
PCB-155 22'44'66'-HxCB				1.08	1.09	1.22	1.26	7.8	1.16	0.09	-6.2%
PCB-152 22'3566'-HxCB				1.00	1.01	1.14	1.17	8.0	1.08	0.09	-6.4%
PCB-150 22'34'66'-HxCB				1.03	1.00	1.15	1.18	7.9	1.09	0.09	-8.0%
PCB-136 22'33'66'-HxCB				0.95	0.95	1.07	1.07	6.8	1.01	0.07	-5.7%
PCB-145 22'3466'HxCB				0.98	0.96	1.09	1.11	7.4	1.03	0.08	-7.0%
PCB-148 22'34'56'-HxCB				0.96	0.97	1.12	1.18	10.5	1.06	0.11	-8.2%
PCB-151/135 22'355'6'-/22'33'				0.94	0.96	1.11	1.14	9.8	1.04	0.10	-7.2%
PCB-154 22'44'5'6'-HxCB				1.05	1.09	1.26	1.34	11.7	1.19	0.14	-8.1%
PCB-144 22'345'6'-HxCB				0.96	0.98	1.13	1.18	10.1	1.06	0.11	-7.7%
PCB-147/149 22'34'56'-/22'34'				0.96	0.99	1.14	1.18	10.3	1.07	0.11	-7.8%
PCB-134 22'33'56'-HxCB				0.78	0.80	0.90	0.92	8.1	0.85	0.07	-5.8%
PCB-143 22'3456'-HxCB				0.92	0.95	1.09	1.13	10.0	1.02	0.10	-6.8%
PCB-139/140 22'344'6'-/22'344'				0.99	1.00	1.14	1.21	10.1	1.09	0.11	-7.9%
PCB-131 22'33'46'-HxCB				0.84	0.85	0.98	1.03	10.4	0.93	0.10	-8.2%
PCB-142 22'3456'-HxCB				0.86	0.88	0.98	0.99	7.4	0.93	0.07	-5.7%
PCB-132 22'33'46'-HxCB				0.87	0.89	1.02	1.03	8.8	0.95	0.08	-6.7%
PCB-133 22'33'55'-HxCB				0.92	0.91	1.04	1.13	10.2	1.00	0.10	-8.7%



Ax	RSD	Mean	sd	MM7_PCB_01102012_25	MM7_PCB_07132012_25	MM7_PCB_07122013_1	MM7_PCB_10292013_2	RSD	Mean	sd	PD from Mean
				JUL12	JUL12	9JUL2013	ODEC2013				
PCB-165 233'55'6"-HxCB				1.12	1.13	1.32	1.41	11.4	1.24	0.14	-9.0%
PCB-146 22'34'55"-HxCB				0.99	1.01	1.16	1.20	10.0	1.09	0.11	-7.6%
PCB-161 233'45'6"-HxCB				1.24	1.25	1.41	1.52	9.8	1.36	0.13	-7.6%
PCB-153/168 22'44'55"-/23'44'				1.19	1.22	1.38	1.46	9.8	1.31	0.13	-7.0%
PCB-141 22'3455"-HxCB				0.92	0.93	1.06	1.09	8.9	1.00	0.09	-7.3%
PCB-130 22'33'45"-HxCB				0.82	0.85	0.95	0.97	8.2	0.90	0.07	-5.7%
PCB-137 22'344'5"-HxCB				1.00	1.04	1.08	1.16	6.3	1.07	0.07	-2.7%
PCB-164 233'4'5'6"-HxCB				1.21	1.22	1.45	1.50	11.2	1.35	0.15	-9.1%
PCB-163/138/129 233'4'56"-/22'				1.01	1.02	1.14	1.19	8.1	1.09	0.09	-6.2%
PCB-160 233'456"-HxCB				1.18	1.21	1.32	1.52	11.9	1.31	0.16	-7.6%
PCB-158 233'44'6"-HxCB				1.30	1.34	1.50	1.66	11.4	1.45	0.17	-7.7%
PCB-128/166 22'33'44"-/2344'5				0.91	0.90	0.95	0.90	2.7	0.92	0.02	-1.9%
PCB-159 233'455"-HxCB				1.07	1.06	1.14	1.11	3.0	1.10	0.03	-3.0%
PCB-162 233'4'55"-HxCB				1.09	1.08	1.14	1.07	2.7	1.09	0.03	-1.7%
PCB-188 22'34'566"-HpCB				1.03	1.03	1.01	1.27	11.4	1.09	0.12	-4.8%
PCB-179 22'33'566"-HpCB				0.95	0.97	0.92	1.16	10.8	1.00	0.11	-3.1%
PCB-184 22'344'66"-HpCB				0.94	0.93	0.90	1.13	10.6	0.98	0.10	-4.6%
PCB-176 22'33'466"-HpCB				1.05	1.05	1.00	1.23	9.4	1.08	0.10	-3.2%
PCB-186 22'34566"-HpCB				0.98	0.98	0.94	1.13	8.3	1.01	0.08	-2.6%
PCB-178 22'33'55'6"-HpCB				0.73	0.74	0.69	0.84	8.6	0.75	0.06	-1.8%
PCB-175 22'33'45'6"-HpCB				0.95	1.01	1.09	1.07	6.1	1.03	0.06	-2.0%
PCB-187 22'34'55'6"-HpCB				0.99	1.06	1.17	1.14	7.4	1.09	0.08	-2.5%
PCB-182 22'344'56"-HpCB				1.02	1.11	1.19	1.18	6.9	1.12	0.08	-1.2%
PCB-183 22'344'5'6"-HpCB				1.06	1.13	1.17	1.20	5.4	1.14	0.06	-0.6%
PCB-185 22'3455'6"-HpCB				0.95	1.02	1.13	1.06	7.3	1.04	0.08	-2.0%
PCB-174 22'33'456"-HpCB				0.83	0.93	0.99	0.99	8.0	0.93	0.07	-0.7%
PCB-177 22'33'4'56"-HpCB				0.85	0.91	0.97	0.95	5.7	0.92	0.05	-1.3%
PCB-181 22'344'56"-HpCB				0.98	1.06	1.10	1.09	4.9	1.06	0.05	0.3%
PCB-171/173 22'33'44'6"-/22'3				0.85	0.93	0.96	0.95	5.4	0.92	0.05	0.6%
PCB-172 22'33'455"-HpCB				0.88	0.95	0.99	0.99	5.5	0.95	0.05	0.3%
PCB-192 233'455'6"-HpCB				1.12	1.24	1.26	1.29	6.0	1.23	0.07	1.0%
PCB-180/193 22'344'55"-/233'				1.08	1.16	1.21	1.26	6.6	1.18	0.08	-1.6%
PCB-191 233'44'5'6"-HpCB				1.20	1.30	1.32	1.40	6.4	1.31	0.08	-0.3%
PCB-170 22'33'44'5"-HpCB				1.06	1.07	1.11	1.14	3.3	1.09	0.04	-1.9%
PCB-190 233'44'56"-HpCB				1.42	1.45	1.54	1.66	7.2	1.52	0.11	-4.3%
PCB-202 22'33'55'66"-OcCB				0.93	0.91	0.97	1.05	6.4	0.97	0.06	-5.3%
PCB-201 22'33'45'66"-OcCB				1.04	1.02	1.07	1.22	8.3	1.09	0.09	-6.2%
PCB-204 22'344'566"-OcCB				0.99	0.98	1.02	1.12	6.3	1.03	0.07	-4.9%
PCB-197 22'33'44'66"-OcCB				1.03	1.06	1.13	1.19	6.3	1.10	0.07	-3.6%
PCB-200 22'33'4566"-OcCB				1.02	0.96	1.02	1.11	6.0	1.03	0.06	-6.4%
PCB-198/199 22'33'455'6"-/22'				0.74	0.72	0.73	0.81	5.7	0.75	0.04	-4.2%
PCB-196 22'33'44'56"-OcCB				0.77	0.73	0.76	0.83	5.5	0.77	0.04	-5.3%
PCB-203 22'344'55'6"-OcCB				0.80	0.76	0.79	0.87	5.7	0.80	0.05	-5.1%
PCB-195 22'33'44'56"-OcCB				0.79	0.80	0.82	0.77	2.7	0.80	0.02	0.5%
PCB-194 22'33'44'55"-OcCB				0.87	0.87	0.89	0.84	2.3	0.87	0.02	0.7%
PCB-205 233'44'55'6"-OcCB				1.07	1.09	1.11	1.06	1.8	1.08	0.02	0.6%
PCB-208 22'33'455'66"-NoCB				1.02	1.02	1.07	1.12	4.7	1.06	0.05	-3.8%
PCB-207 22'33'44'566"-NoCB				1.07	1.06	1.10	1.19	5.4	1.10	0.06	-4.3%
PCB-206 22'33'44'55'6"-NoCB				0.99	0.98	0.92	1.11	7.9	1.00	0.08	-2.0%

## SGS Analytical Perspectives — Run Log

Project: 131220 QC MM7

Instrument: MM7 (AutoSpec-Premier)

MS Experiment: pcb-2012-01

GC Program: pcb90\_a

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	131220X02	Tray1:37	CS0_131220_PCB_XA	1.00	SIL 13-79-6	LKB	067-110	20-Dec-2013	14:56:33
3	131220X03	Tray1:38	CS1_131220_PCB_XA	1.00	SIL 13-79-5	LKB	983-753	20-Dec-2013	16:14:56
4	131220X04	Tray1:39	CS2_131220_PCB_XA	1.00	SIL 13-79-4	LKB	288-489	20-Dec-2013	17:09:38
5	131220X05	Tray1:40	CS3_131220_PCB_XA	1.00	SIL 13-79-3	LKB	297-225	20-Dec-2013	18:04:38
6	131220X06	Tray1:41	CS4_131220_PCB_XA	1.00	SIL 13-79-2	LKB	186-257	20-Dec-2013	18:59:38
7	131220X07	Tray1:02	SBS_131220_PCB_XB	1.00	SIL 9-42-1	LKB	307-094	20-Dec-2013	19:54:39
8	131220X08	Tray1:42	CS5_131220_PCB_XA	1.00	SIL 13-84-1	LKB	807-075	20-Dec-2013	20:49:35
9	131220X09	Tray1:02	SBS_131220_PCB_XC	1.00	SIL 9-42-1	LKB	023-880	20-Dec-2013	21:57:30
10	131220X10	Tray1:02	SBS_131220_PCB_XD	1.00	SIL 9-42-1	LKB	979-518	20-Dec-2013	22:52:16

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	6.82E+05	0.76 Y	1.15	1.17	1.8%	
PCB-81 344'5'-TeCB	32.64	6.25E+05	0.76 Y	1.12	1.08	-3.1%	
PCB-105 233'44'-PeCB	36.11	5.30E+05	0.63 Y	1.11	1.13	1.5%	
PCB-114 2344'5'-PeCB	35.57	5.44E+05	0.67 Y	1.20	1.14	-5.0%	
PCB-118 23'44'5'-PeCB	35.10	5.47E+05	0.67 Y	1.19	1.20	0.6%	
PCB-123 23'44'5'-PeCB	34.82	5.49E+05	0.63 Y	1.21	1.20	-0.6%	
PCB-126 33'44'5'-PeCB	38.73	4.31E+05	0.61 Y	1.11	1.05	-5.2%	
PCB-156/157 ...-HxCB	41.28	8.79E+05	1.18 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	4.81E+05	1.11 Y	1.16	1.11	-4.2%	
PCB-169 33'44'55'-HxCB	44.00	4.43E+05	1.39 Y	1.12	1.12	-0.5%	
PCB-189 233'44'55'-HpCB	46.13	4.42E+05	1.03 Y	1.07	1.08	0.2%	
PCB-209 DeCB	51.25	3.36E+05	1.21 Y	1.11	1.18	6.0%	
ES PCB-1	12.05	2.32E+08	3.31 Y	1.19	1.25	5.1%	
ES PCB-3	14.37	2.09E+08	3.36 Y	1.09	1.12	3.5%	
ES PCB-4	14.63	9.70E+07	1.64 Y	0.52	0.52	0.1%	
ES PCB-15	20.39	1.92E+08	1.56 Y	1.04	1.04	-0.4%	
ES PCB-19	17.75	9.22E+07	1.08 Y	0.51	0.50	-1.7%	
ES PCB-37	26.75	1.42E+08	1.09 Y	1.66	1.69	1.7%	
ES PCB-54	20.68	7.28E+07	0.79 Y	0.86	0.86	0.4%	
ES PCB-77	33.10	1.16E+08	0.80 Y	1.38	1.38	-0.1%	
ES PCB-81	32.62	1.15E+08	0.81 Y	1.37	1.37	0.2%	
ES PCB-104	25.69	6.25E+07	1.64 Y	0.80	0.82	1.5%	
ES PCB-105	36.09	9.38E+07	1.62 Y	1.20	1.22	1.8%	
ES PCB-114	35.55	9.51E+07	1.64 Y	1.22	1.24	1.8%	
ES PCB-118	35.08	9.14E+07	1.64 Y	1.16	1.19	2.9%	
ES PCB-123	34.80	9.13E+07	1.59 Y	1.19	1.19	0.4%	
ES PCB-126	38.71	8.22E+07	1.56 Y	1.03	1.07	4.3%	
ES PCB-153	36.67	5.84E+07	1.32 Y	1.11	1.14	2.1%	
ES PCB-155	30.66	8.51E+07	1.30 Y	1.59	1.66	4.3%	
ES PCB-156/157	41.26	1.64E+08	1.31 Y	1.60	1.60	0.0%	
ES PCB-167	40.28	8.65E+07	1.29 Y	1.67	1.68	0.9%	
ES PCB-169	43.98	7.92E+07	1.29 Y	1.56	1.54	-1.0%	
ES PCB-170	43.50	4.71E+07	1.09 Y	0.95	0.92	-2.5%	
ES PCB-180	42.43	5.69E+07	1.07 Y	1.14	1.11	-2.0%	
ES PCB-188	35.54	4.97E+07	1.11 Y	0.94	0.97	2.9%	
ES PCB-189	46.11	8.21E+07	1.04 Y	1.58	1.61	1.7%	
ES PCB-202	40.09	4.94E+07	0.92 Y	0.97	0.96	-0.9%	
ES PCB-205	48.28	6.33E+07	0.90 Y	1.24	1.24	-0.3%	
ES PCB-206	49.75	4.24E+07	0.81 Y	0.83	0.83	0.3%	
ES PCB-208	45.73	5.90E+07	0.81 Y	1.17	1.16	-1.6%	
ES PCB-209	51.23	5.69E+07	1.19 Y	1.11	1.12	0.5%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.59E+08	1.09 Y	1.11	1.12	0.5%	
SS PCB-111	33.12	9.52E+07	1.60 Y	1.03	1.04	1.3%	
SS PCB-178	38.11	3.17E+07	1.06 Y	0.62	0.64	3.0%	
CS PCB-28	23.18	1.59E+08	1.09 Y	1.85	1.89	2.2%	
CS PCB-111	33.12	9.52E+07	1.60 Y	1.22	1.24	1.7%	
CS PCB-178	38.11	3.17E+07	1.06 Y	0.58	0.62	6.0%	
JS PCB-9	16.63	1.86E+08	1.57 Y	-	-	-	
JS PCB-52	24.81	8.42E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	7.67E+07	1.63 Y	-	-	-	
JS PCB-138	37.74	5.14E+07	1.34 Y	-	-	-	
JS PCB-194	47.88	5.10E+07	0.93 Y	-	-	-	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	3.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	1.15E+06	3.25 Y	0.95	0.99	0.9%	
PCB-2 3-MoCB	14.20	1.07E+06	3.22 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.39	1.04E+06	3.26 Y	1.01	1.00	-0.9%	
PCB-4 22'-DiCB	14.64	5.70E+05	0.00 S	1.23	1.17	-4.7%	
PCB-10 26'-DiCB	14.83	9.26E+05	0.00 S	1.98	1.91	-3.6%	
PCB-9 25'-DiCB	16.65	8.91E+05	0.00 S	0.95	0.93	-2.0%	
PCB-7 24'-DiCB	16.82	9.13E+05	0.00 S	1.05	0.95	-9.2%	
PCB-6 23'-DiCB	17.04	9.28E+05	0.00 S	1.00	0.97	-3.0%	
PCB-5 23'-DiCB	17.35	9.94E+05	0.00 S	1.00	1.03	3.2%	
PCB-8 24'-DiCB	17.47	1.02E+06	0.00 S	1.03	1.07	3.2%	
PCB-14 35'-DiCB	19.04	1.10E+06	0.00 S	1.18	1.14	-3.4%	
PCB-11 33'-DiCB	19.83	9.44E+05	0.00 S	1.01	0.98	-2.8%	
PCB-13/12 34'/34'-DiCB	20.12	1.69E+06	0.00 S	0.99	0.88	-11.2%	
PCB-15 44'-DiCB	20.41	9.73E+05	0.00 S	1.02	1.01	-0.7%	
PCB-19 22'6'-TrCB	17.77	5.22E+05	1.03 Y	1.15	1.13	-1.3%	
PCB-30/18 246'/22'5'-TrCB	19.54	1.37E+06	1.04 Y	1.54	1.49	-3.2%	
PCB-17 22'4'-TrCB	19.95	5.65E+05	1.04 Y	1.31	1.23	-6.1%	
PCB-27 23'6'-TrCB	20.14	8.14E+05	1.08 Y	1.82	1.77	-2.9%	
PCB-24 236'-TrCB	20.27	7.72E+05	1.06 Y	1.72	1.67	-2.9%	
PCB-16 22'3'-TrCB	20.37	4.55E+05	1.10 Y	1.01	0.99	-2.0%	
PCB-32 24'6'-TrCB	20.86	8.78E+05	1.08 Y	1.92	1.90	-0.8%	
PCB-34 23'5'-TrCB	22.01	7.89E+05	1.08 Y	1.14	1.11	-2.3%	
PCB-23 235'-TrCB	22.16	8.53E+05	0.94 Y	1.16	1.20	3.8%	
PCB-26/29 23'5'/245'-TrCB	22.45	1.63E+06	1.01 Y	1.17	1.15	-2.1%	
PCB-25 23'4'-TrCB	22.65	8.01E+05	0.97 Y	1.16	1.13	-2.7%	
PCB-31 24'5'-TrCB	22.92	8.89E+05	1.01 Y	1.23	1.25	2.0%	
PCB-28/20 244'/233'-TrCB	23.21	1.61E+06	1.02 Y	1.13	1.13	-0.1%	
PCB-21/33 234'/23'4'-TrCB	23.39	1.63E+06	0.98 Y	1.17	1.15	-2.4%	
PCB-22 234'-TrCB	23.77	7.71E+05	1.00 Y	1.08	1.08	0.4%	
PCB-36 33'5'-TrCB	25.16	8.01E+05	1.00 Y	1.17	1.13	-3.7%	
PCB-39 34'5'-TrCB	25.48	8.42E+05	1.02 Y	1.21	1.18	-2.3%	
PCB-38 345'-TrCB	26.02	7.61E+05	0.93 Y	1.10	1.07	-3.2%	
PCB-35 33'4'-TrCB	26.41	7.19E+05	1.01 Y	1.04	1.01	-2.8%	
PCB-37 344'-TrCB	26.77	7.24E+05	1.07 Y	1.08	1.02	-5.6%	
PCB-54 22'66'-TeCB	20.70	5.08E+05	0.86 Y	1.35	1.40	3.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	1.02E+06	0.81 Y	0.88	0.89	1.3%	
PCB-45 22'36'-TeCB	23.29	4.52E+05	0.79 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.37	4.59E+05	0.83 Y	0.86	0.80	-7.3%	
PCB-46 22'36'-TeCB	23.57	4.01E+05	0.83 Y	0.70	0.70	-0.4%	
PCB-52 22'55'-TeCB	24.83	4.90E+05	0.76 Y	0.84	0.85	0.7%	
PCB-73 23'5'6'-TeCB	24.96	6.54E+05	0.81 Y	1.11	1.13	2.0%	
PCB-43 22'35'-TeCB	25.06	3.93E+05	0.85 Y	0.71	0.68	-4.1%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	1.15E+06	0.76 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	4.76E+05	0.82 Y	0.84	0.83	-1.5%	
PCB-44/47/65 ...-TeCB	25.76	1.54E+06	0.78 Y	0.90	0.89	-1.8%	
PCB-59/62/75 ...-TeCB	26.03	1.95E+06	0.80 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.20	4.38E+05	0.81 Y	0.76	0.76	-0.5%	
PCB-41 22'34'-TeCB	26.54	3.93E+05	0.87 Y	0.69	0.68	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	9.69E+05	0.82 Y	0.86	0.84	-2.2%	
PCB-64 234'6'-TeCB	26.83	6.74E+05	0.82 Y	1.22	1.17	-4.3%	
PCB-72 23'55'-TeCB	27.55	6.87E+05	0.78 Y	1.21	1.19	-1.5%	
PCB-68 23'45'-TeCB	27.80	7.26E+05	0.84 Y	1.28	1.26	-1.4%	
PCB-57 233'5'-TeCB	28.18	6.81E+05	0.73 Y	1.16	1.18	1.5%	
PCB-58 233'5'-TeCB	28.38	6.76E+05	0.76 Y	1.18	1.17	-0.6%	
PCB-67 23'45'-TeCB	28.54	7.09E+05	0.78 Y	1.26	1.23	-2.3%	
PCB-63 234'5'-TeCB	28.77	7.50E+05	0.82 Y	1.30	1.30	0.2%	
PCB-61/70/74/76 ...-TeCB	29.06	2.77E+06	0.77 Y	1.20	1.20	0.2%	
PCB-66 23'44'-TeCB	29.34	6.11E+05	0.79 Y	1.10	1.06	-3.9%	
PCB-55 233'4'-TeCB	29.49	6.26E+05	0.78 Y	1.12	1.09	-3.1%	
PCB-56 233'4'-TeCB	29.93	6.53E+05	0.82 Y	1.11	1.13	2.0%	
PCB-60 2344'-TeCB	30.12	6.55E+05	0.79 Y	1.14	1.13	0.0%	
PCB-80 33'55'-TeCB	30.44	7.47E+05	0.82 Y	1.31	1.30	-1.4%	
PCB-79 33'45'-TeCB	31.77	7.25E+05	0.81 Y	1.31	1.26	-3.8%	
PCB-78 33'45'-TeCB	32.26	6.00E+05	0.82 Y	1.06	1.04	-2.0%	
PCB-104 22'466'-PeCB	25.71	4.49E+05	0.64 Y	1.43	1.44	0.3%	
PCB-96 22'366'-PeCB	26.03	3.51E+05	0.75 N	1.23	1.12	-8.6%	
PCB-103 22'45'6'-PeCB	27.72	4.14E+05	0.64 Y	0.93	0.91	-2.6%	
PCB-94 22'356'-PeCB	27.91	3.59E+05	0.70 Y	0.80	0.79	-1.5%	
PCB-95 22'35'6'-PeCB	28.29	4.07E+05	0.58 Y	0.87	0.89	3.0%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	7.64E+05	0.61 Y	0.86	0.84	-3.1%	
PCB-102 22'456'-PeCB	28.62	4.42E+05	0.64 Y	0.97	0.97	0.0%	
PCB-98 22'34'6'-PeCB	28.70	3.31E+05	0.63 Y	0.76	0.73	-4.3%	
PCB-88 22'346'-PeCB	29.00	4.40E+05	0.66 Y	0.80	0.96	20.8%	
PCB-91 22'34'6'-PeCB	29.06	3.45E+05	0.56 Y	0.94	0.76	-19.9%	
PCB-84 22'33'6'-PeCB	29.25	3.22E+05	0.60 Y	0.72	0.71	-1.3%	
PCB-89 22'346'-PeCB	29.67	3.31E+05	0.70 Y	0.76	0.73	-4.9%	
PCB-121 23'45'6'-PeCB	30.01	5.39E+05	0.64 Y	1.20	1.18	-1.7%	
PCB-92 22'355'-PeCB	30.33	3.73E+05	0.62 Y	0.82	0.82	-0.4%	
PCB-113/90/101 ...-PeCB	30.82	1.35E+06	0.62 Y	0.99	0.98	-0.3%	
PCB-83 22'33'5'-PeCB	31.26	3.50E+05	0.64 Y	0.71	0.77	7.3%	
PCB-99 22'44'5'-PeCB	31.36	4.00E+05	0.61 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.46	5.12E+05	0.65 Y	1.17	1.12	-4.0%	
PCB-108/119/86/97/125...-PeCB	31.80	2.69E+06	0.63 Y	0.98	0.98	0.2%	
PCB-117 234'56'-PeCB	32.33	4.64E+05	0.55 Y	1.14	1.02	-10.6%	
PCB-116/85 23456/22'344'-PeCB	32.43	9.28E+05	0.58 Y	0.94	1.02	8.1%	
PCB-110 233'4'6'-PeCB	32.54	4.96E+05	0.62 Y	1.12	1.09	-2.7%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	5.39E+05	0.59 Y	1.16	1.18	1.18	
PCB-82 22'33'4-PeCB	32.83	3.15E+05	0.59 Y	0.70	0.69	-1.1%	
PCB-111 233'55'-PeCB	33.14	5.61E+05	0.65 Y	1.22	1.23	0.6%	
PCB-120 23'455'-PeCB	33.54	5.37E+05	0.66 Y	1.21	1.18	-2.8%	
PCB-107/124 ...-PeCB	34.51	9.78E+05	0.64 Y	1.10	1.07	-2.4%	
PCB-109 233'46-PeCB	34.72	5.73E+05	0.63 Y	1.25	1.26	0.2%	
PCB-106 233'45-PeCB	34.94	5.10E+05	0.69 Y	1.11	1.12	1.0%	
PCB-122 233'4'5'-PeCB	35.40	4.64E+05	0.65 Y	0.99	0.97	-2.0%	
PCB-127 33'455'-PeCB	37.35	5.10E+05	0.62 Y	1.10	1.09	-0.8%	
PCB-155 22'44'66'-HxCB	30.68	5.21E+05	1.33 Y	1.26	1.23	-2.8%	
PCB-152 22'3566'-HxCB	30.84	4.93E+05	1.27 Y	1.17	1.16	-1.3%	
PCB-150 22'34'66'-HxCB	30.98	5.01E+05	1.36 Y	1.18	1.18	0.1%	
PCB-136 22'33'66'-HxCB	31.29	4.28E+05	1.35 Y	1.07	1.01	-5.7%	
PCB-145 22'3466'-HxCB	31.56	4.79E+05	1.26 Y	1.11	1.13	0.9%	
PCB-148 22'34'56'-HxCB	32.83	3.33E+05	1.20 Y	1.18	1.14	-3.7%	
PCB-151/135 ...-HxCB	33.35	6.47E+05	1.21 Y	1.14	1.11	-2.9%	
PCB-154 22'44'56'-HxCB	33.56	4.03E+05	1.25 Y	1.34	1.38	2.8%	
PCB-144 22'345'6-HxCB	33.83	3.56E+05	1.23 Y	1.18	1.22	3.1%	
PCB-147/149 ...-HxCB	34.13	6.56E+05	1.34 Y	1.18	1.12	-4.6%	
PCB-134 22'33'56-HxCB	34.30	2.84E+05	1.23 Y	0.92	0.97	5.0%	
PCB-143 22'3456'-HxCB	34.39	3.14E+05	1.30 Y	1.13	1.07	-4.7%	
PCB-139/140 ...-HxCB	34.65	7.00E+05	1.27 Y	1.21	1.20	-0.6%	
PCB-131 22'33'46-HxCB	34.82	2.97E+05	1.27 Y	1.03	1.02	-0.8%	
PCB-142 22'3456-HxCB	34.97	2.79E+05	1.25 Y	0.99	0.96	-3.4%	
PCB-132 22'33'46'-HxCB	35.21	3.02E+05	1.27 Y	1.03	1.03	0.2%	
PCB-133 22'33'55'-HxCB	35.61	3.31E+05	1.25 Y	1.13	1.13	0.1%	
PCB-165 233'55'6-HxCB	35.95	4.11E+05	1.27 Y	1.41	1.41	-0.2%	
PCB-146 22'34'55'-HxCB	36.16	3.49E+05	1.21 Y	1.20	1.19	-0.7%	
PCB-161 233'45'6-HxCB	36.28	4.37E+05	1.25 Y	1.52	1.50	-1.6%	
PCB-153/168 ...-HxCB	36.72	8.08E+05	1.27 Y	1.46	1.38	-5.0%	
PCB-141 22'3455'-HxCB	36.86	3.22E+05	1.27 Y	1.09	1.10	1.3%	
PCB-130 22'33'45'-HxCB	37.20	2.84E+05	1.16 Y	0.97	0.97	0.0%	
PCB-137 22'344'5-HxCB	37.41	3.47E+05	1.24 Y	1.16	1.19	2.0%	
PCB-164 233'4'5'6-HxCB	37.49	3.94E+05	1.20 Y	1.50	1.35	-10.0%	
PCB-163/138/129 ...-HxCB	37.78	1.03E+06	1.26 Y	1.19	1.18	-1.1%	
PCB-160 233'456-HxCB	37.92	4.35E+05	1.23 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.10	4.94E+05	1.30 Y	1.66	1.69	1.8%	
PCB-128/166 ...-HxCB	38.84	7.41E+05	1.33 Y	0.90	0.86	-4.7%	
PCB-159 233'455'-HxCB	39.65	4.73E+05	1.12 Y	1.11	1.09	-1.9%	
PCB-162 233'4'55'-HxCB	39.89	4.43E+05	1.33 Y	1.07	1.03	-4.3%	
PCB-188 22'34'566'-HpCB	35.56	3.05E+05	1.15 Y	1.27	1.23	-3.2%	
PCB-179 22'33'566'-HpCB	35.84	2.95E+05	1.06 Y	1.16	1.19	2.3%	
PCB-184 22'344'66'-HpCB	36.31	2.83E+05	0.94 Y	1.13	1.14	1.1%	

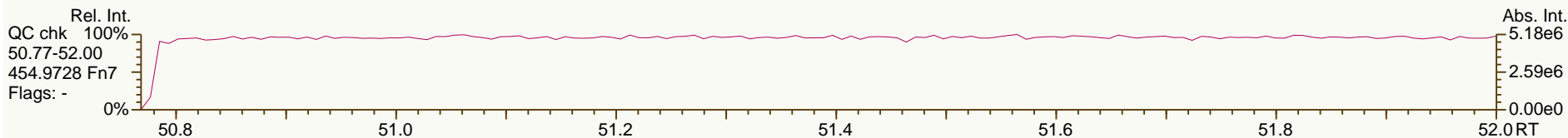
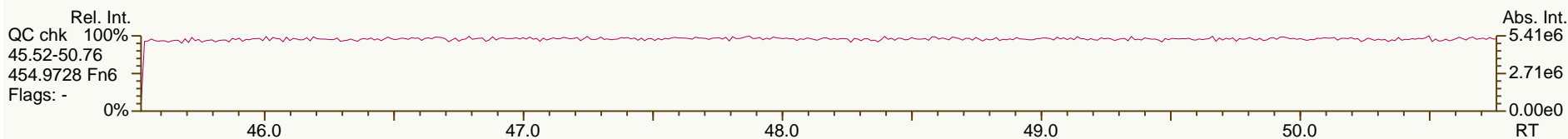
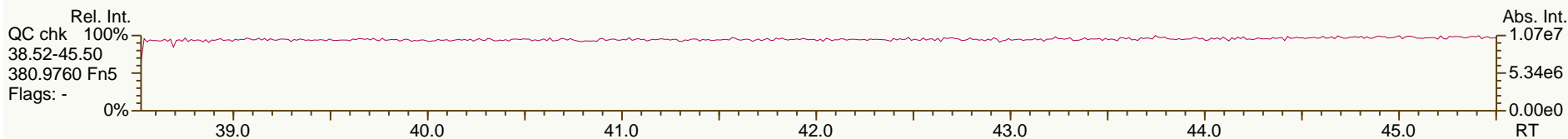
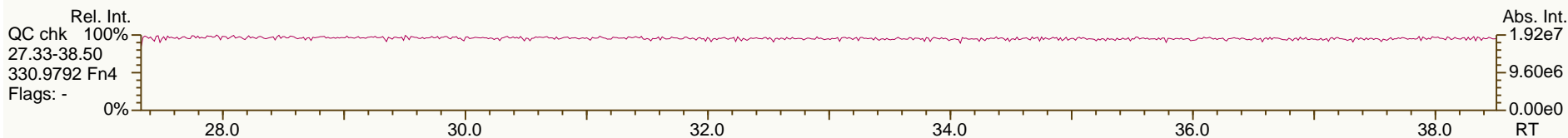
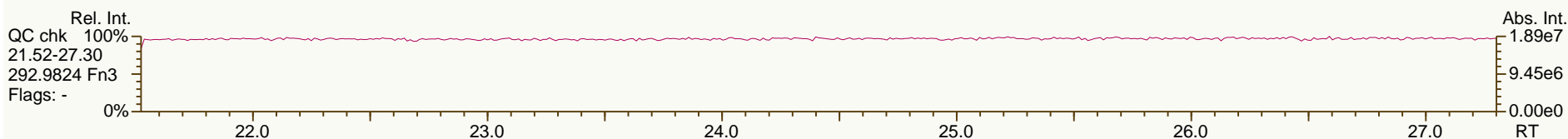
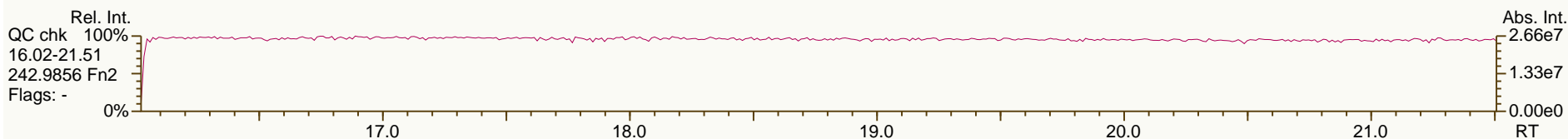
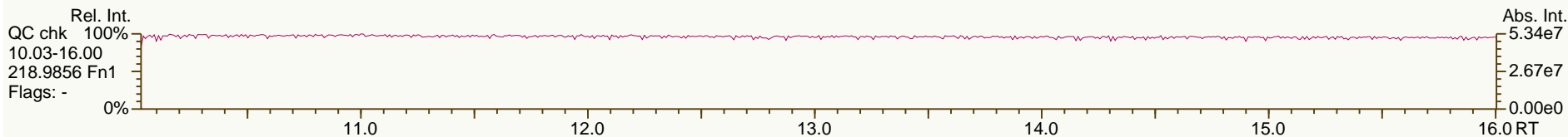
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS0_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 14:56						
Datafile:	131220X02						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.00E+05	1.06 Y	1.23	1.21	-1.8%	
PCB-186 22'34566'-HpCB	37.00	2.82E+05	1.10 Y	1.13	1.14	1.0%	
PCB-178 22'33'55'6'-HpCB	38.13	2.19E+05	1.14 Y	0.84	0.88	4.6%	
PCB-175 22'33'45'6'-HpCB	38.68	2.90E+05	1.08 Y	1.07	1.02	-4.9%	
PCB-187 22'34'55'6'-HpCB	38.91	3.08E+05	1.11 Y	1.14	1.08	-4.8%	
PCB-182 22'344'56'-HpCB	39.09	3.10E+05	1.13 Y	1.18	1.09	-7.2%	
PCB-183 22'344'5'6'-HpCB	39.43	3.29E+05	1.06 Y	1.20	1.16	-4.0%	
PCB-185 22'3455'6'-HpCB	39.52	2.70E+05	1.04 Y	1.06	0.95	-10.4%	
PCB-174 22'33'456'-HpCB	39.63	2.63E+05	1.16 Y	0.99	0.93	-6.3%	
PCB-177 22'33'45'6'-HpCB	40.00	2.64E+05	1.06 Y	0.95	0.93	-2.5%	
PCB-181 22'344'56'-HpCB	40.35	2.93E+05	1.17 Y	1.09	1.03	-5.4%	
PCB-171/173 ...-HpCB	40.54	5.11E+05	1.09 Y	0.95	0.90	-5.3%	
PCB-172 22'33'455'-HpCB	41.89	2.73E+05	1.07 Y	0.99	0.96	-3.0%	
PCB-192 233'455'6'-HpCB	42.14	3.33E+05	1.10 Y	1.29	1.17	-9.0%	
PCB-180/193 ...-HpCB	42.41	7.15E+05	1.02 Y	1.26	1.26	-0.4%	
PCB-191 233'44'5'6'-HpCB	42.74	3.99E+05	1.10 Y	1.40	1.41	0.7%	
PCB-170 22'33'44'5'-HpCB	43.51	2.56E+05	1.10 Y	1.14	1.09	-4.3%	
PCB-190 233'44'56'-HpCB	43.97	3.84E+05	1.02 Y	1.66	1.63	-1.8%	
PCB-202 22'33'55'66'-OcCB	40.11	2.58E+05	0.94 Y	1.05	1.05	-0.7%	
PCB-201 22'33'45'66'-OcCB	40.90	2.87E+05	1.04 N	1.22	1.16	-4.7%	
PCB-204 22'344'566'-OcCB	41.48	2.72E+05	0.90 Y	1.12	1.10	-1.4%	
PCB-197 22'33'44'66'-OcCB	41.67	3.10E+05	0.94 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.76	2.54E+05	1.01 Y	1.11	1.03	-7.2%	
PCB-198/199 ...-OcCB	44.08	3.97E+05	1.02 Y	0.81	0.80	-0.6%	
PCB-196 22'33'44'56'-OcCB	44.66	2.07E+05	0.90 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.83	2.16E+05	0.86 Y	0.87	0.87	0.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.51E+05	0.94 Y	0.77	0.79	3.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.77E+05	0.96 Y	0.84	0.88	3.8%	
PCB-205 233'44'55'6'-OcCB	48.30	3.40E+05	0.94 Y	1.06	1.07	1.3%	
PCB-208 22'33'455'66'-NoCB	45.75	3.21E+05	0.83 Y	1.12	1.09	-3.0%	
PCB-207 22'33'44'566'-NoCB	46.54	3.55E+05	0.76 Y	1.19	1.20	1.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.31E+05	0.73 Y	1.11	1.09	-2.5%	



SGS-AP ID: CS0\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

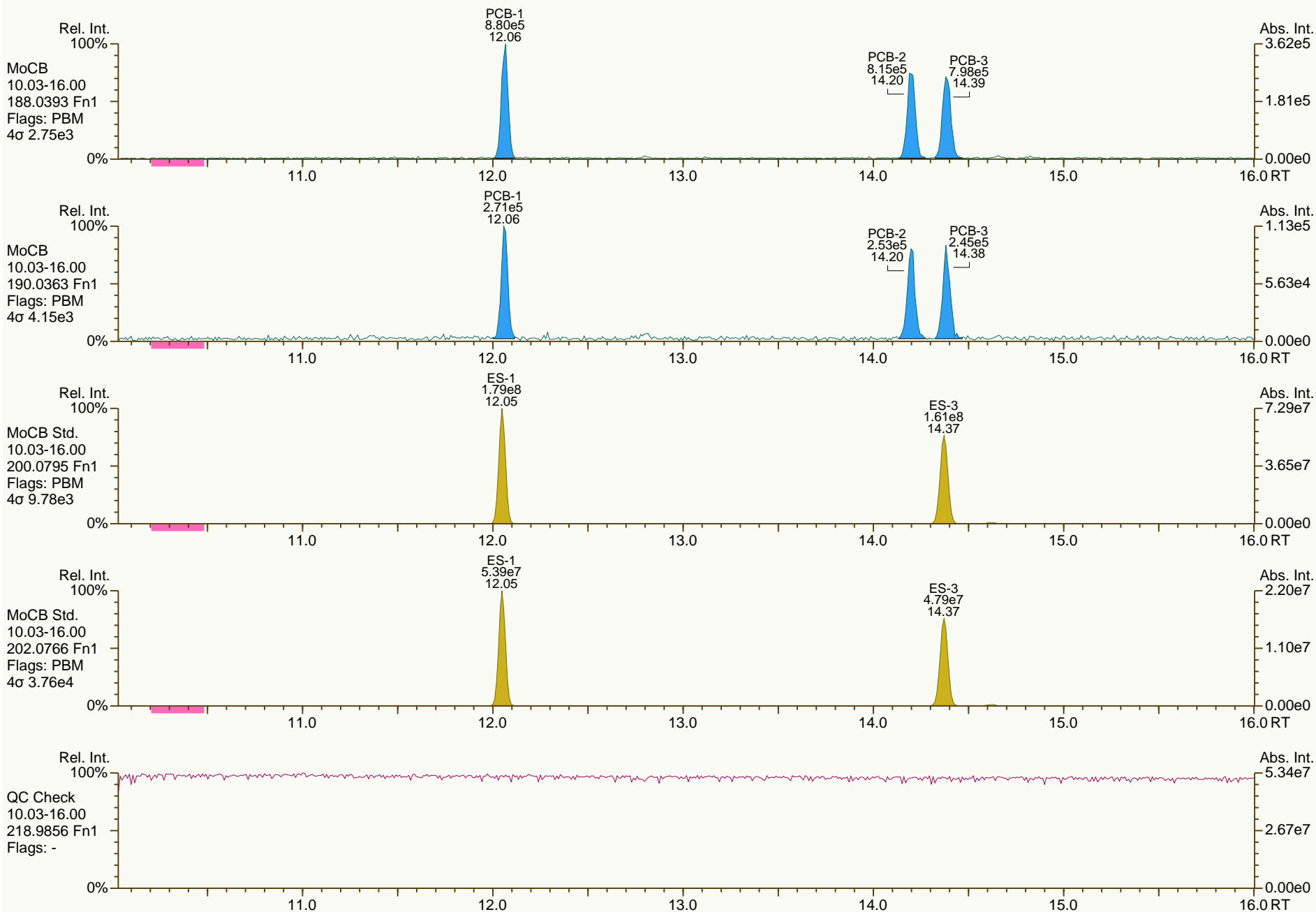
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SGS-AP ID: CS0\_131220\_PCB\_XA  
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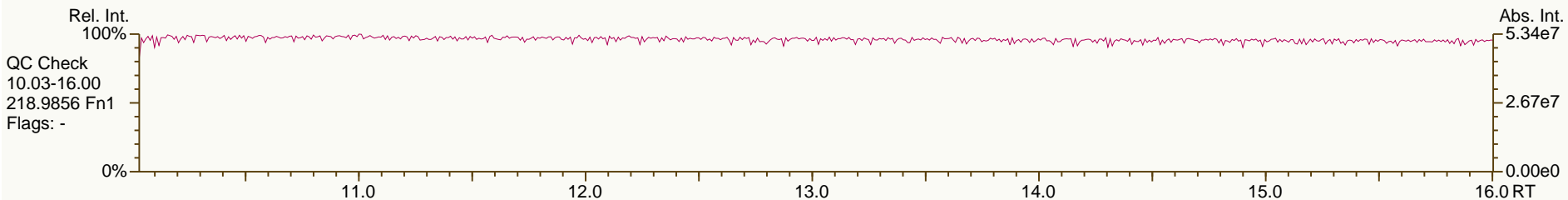
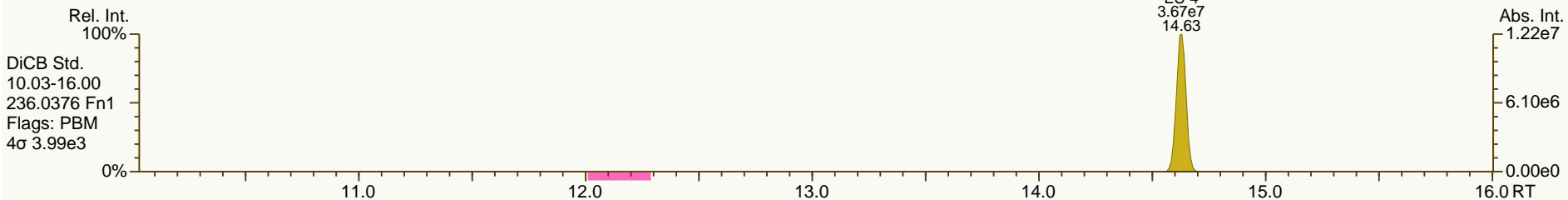
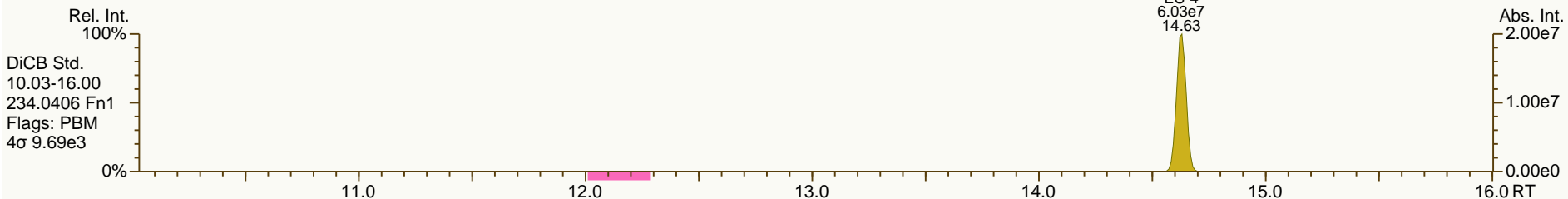
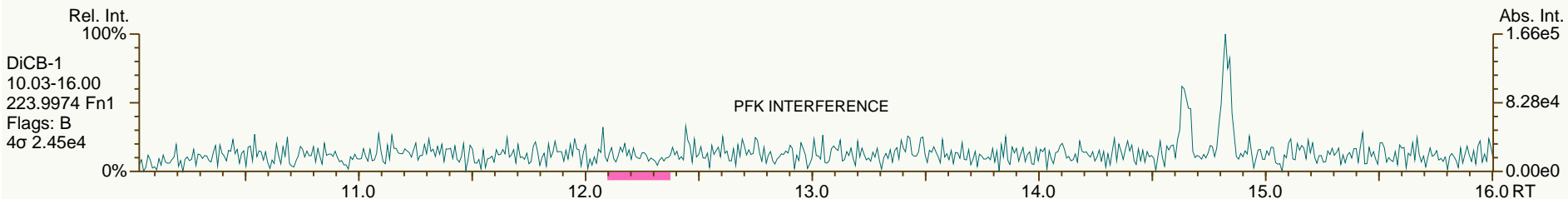
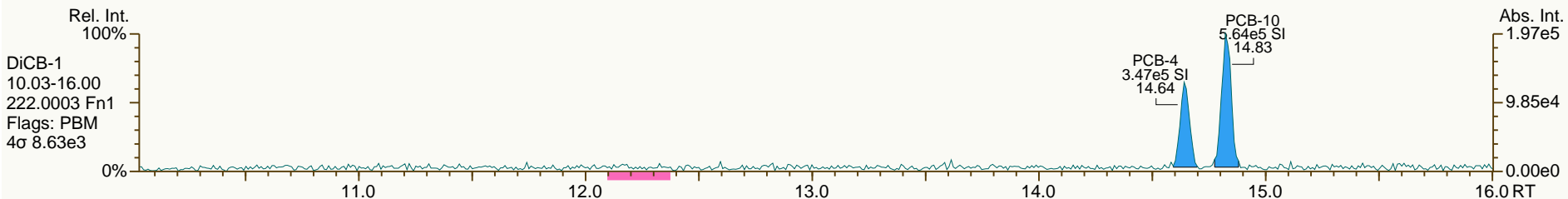
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SGS-AP ID: CS0\_131220\_PCB\_XA  
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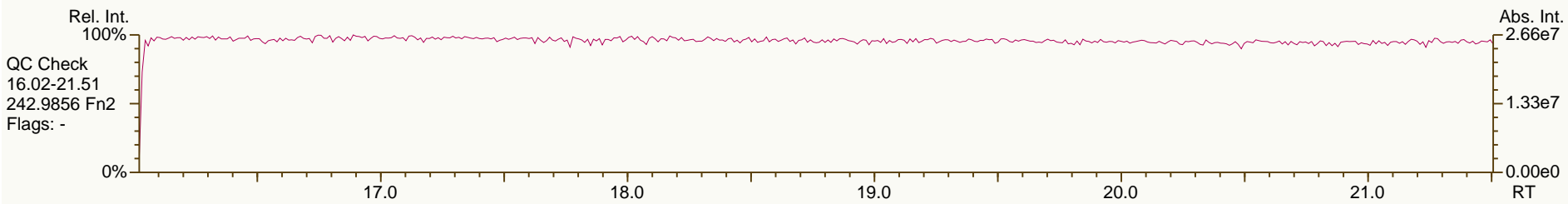
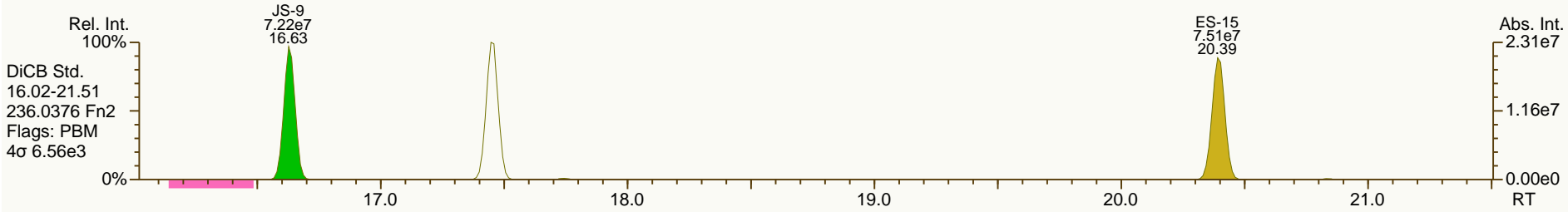
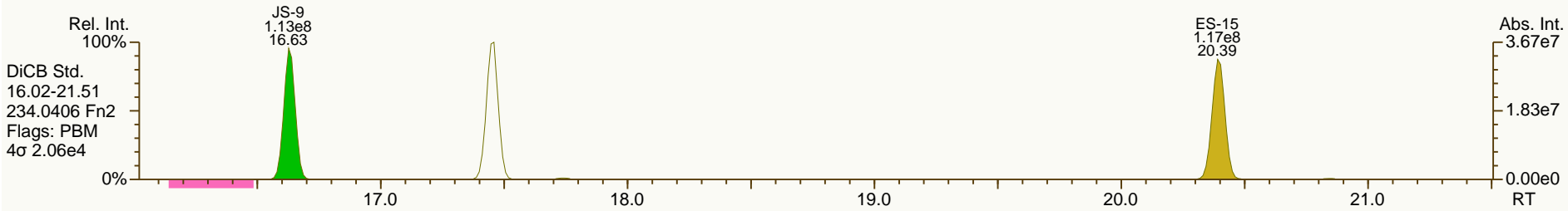
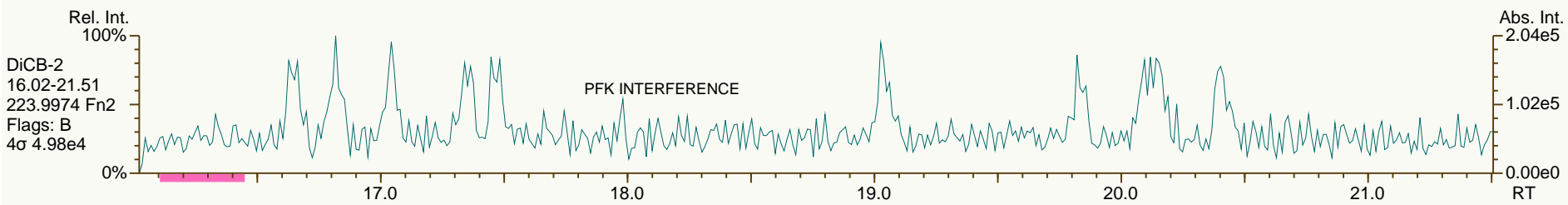
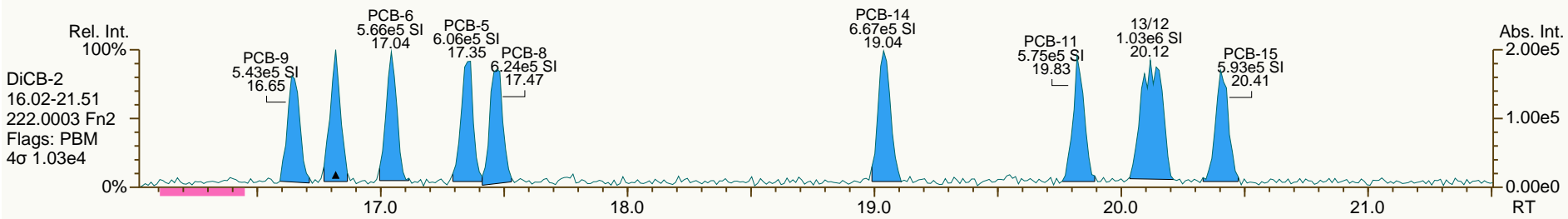
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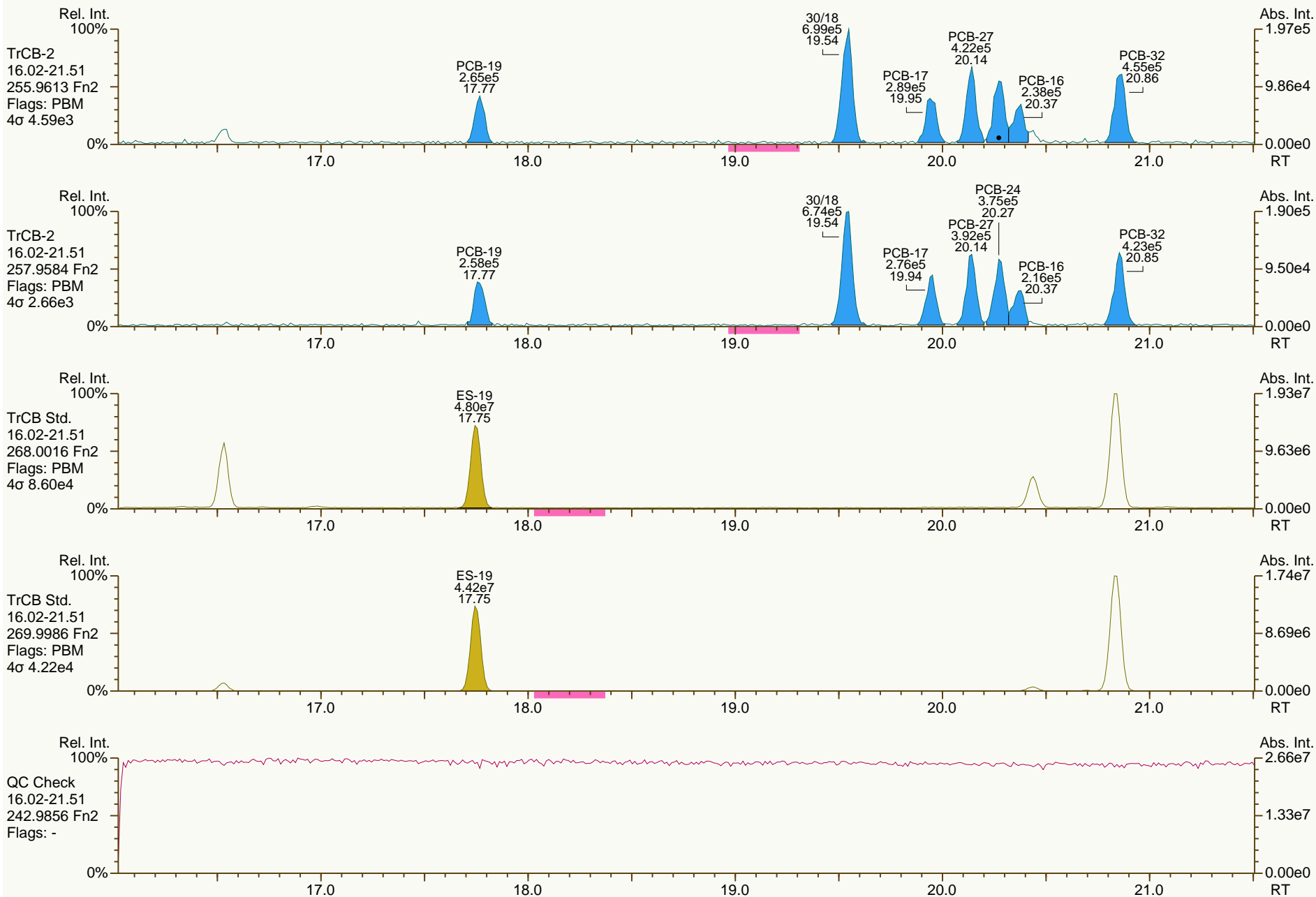
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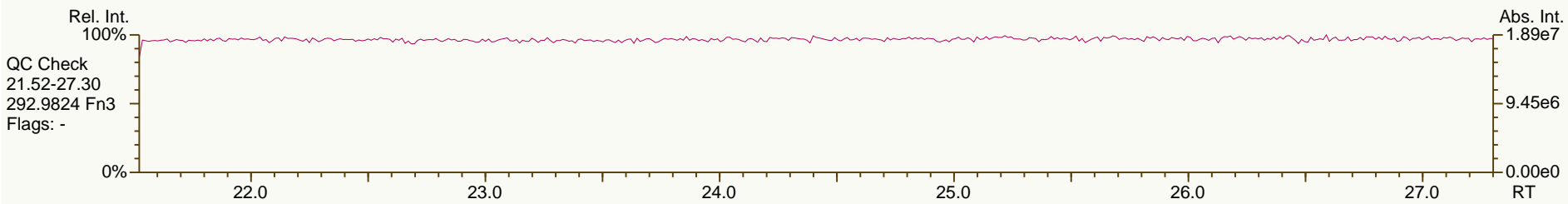
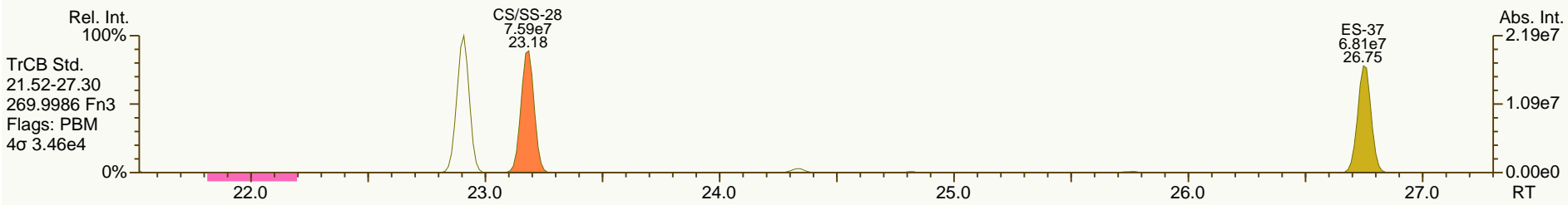
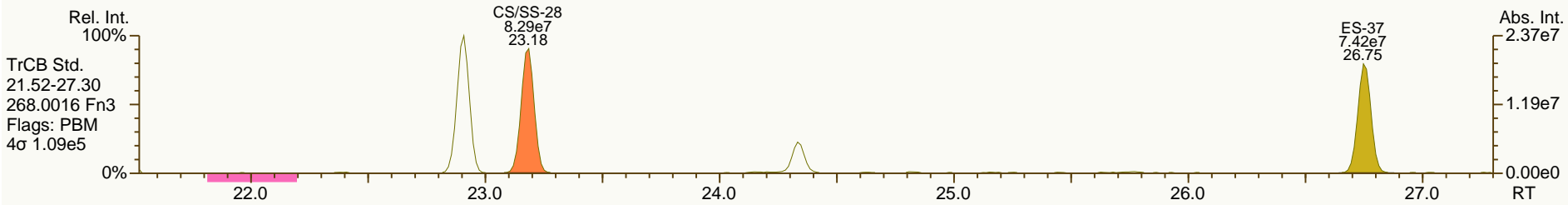
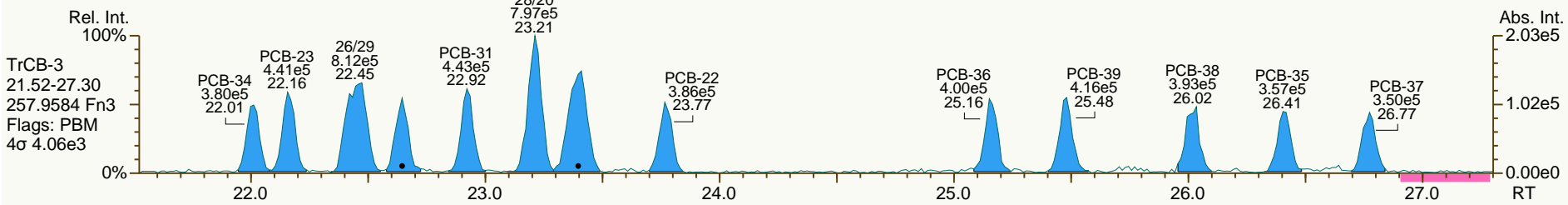
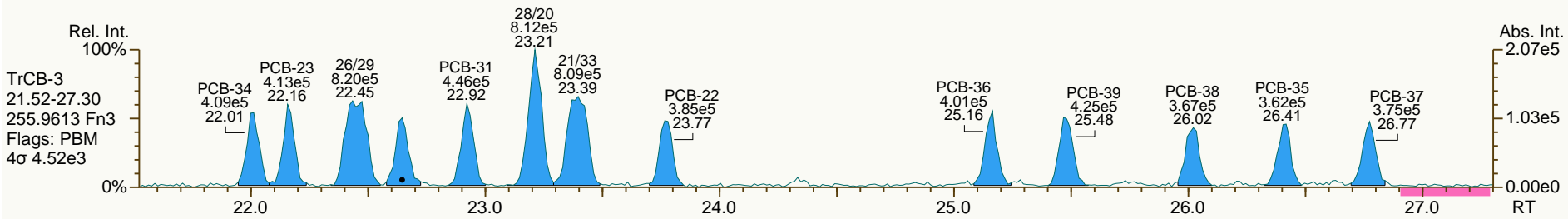
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 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
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SGS-AP ID: CS0\_131220\_PCB\_XA  
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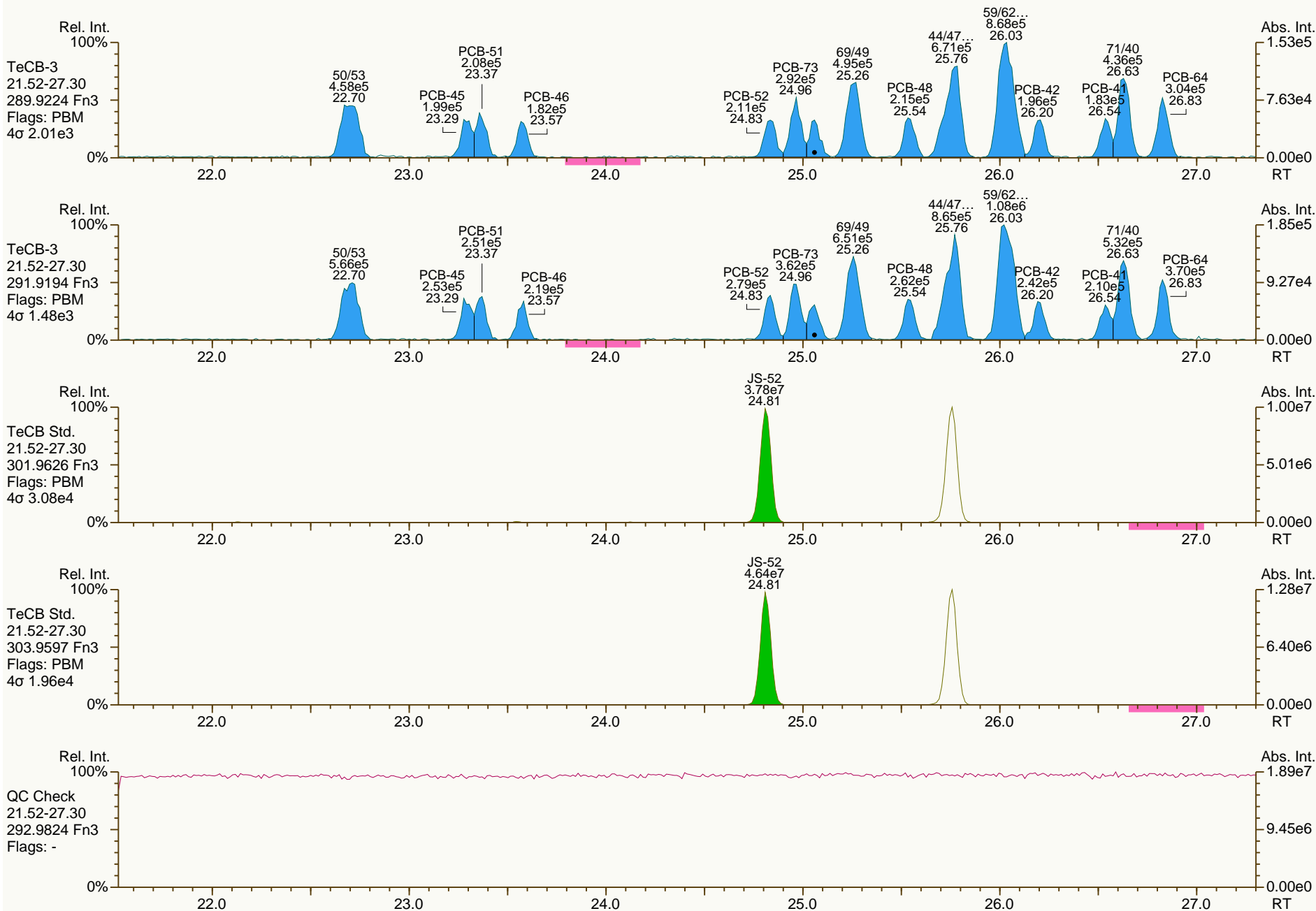
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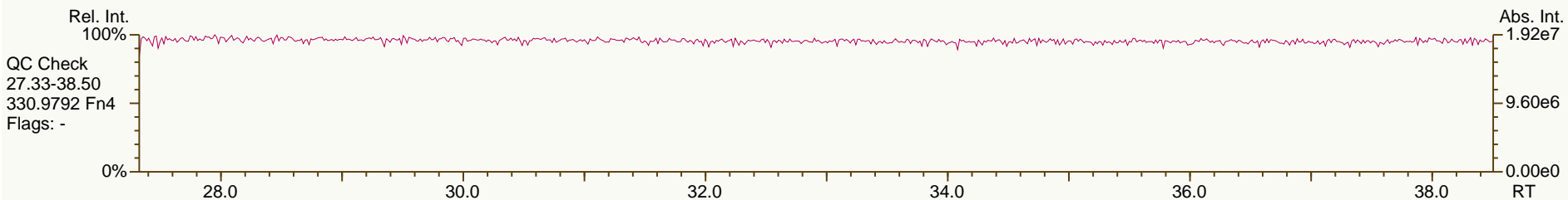
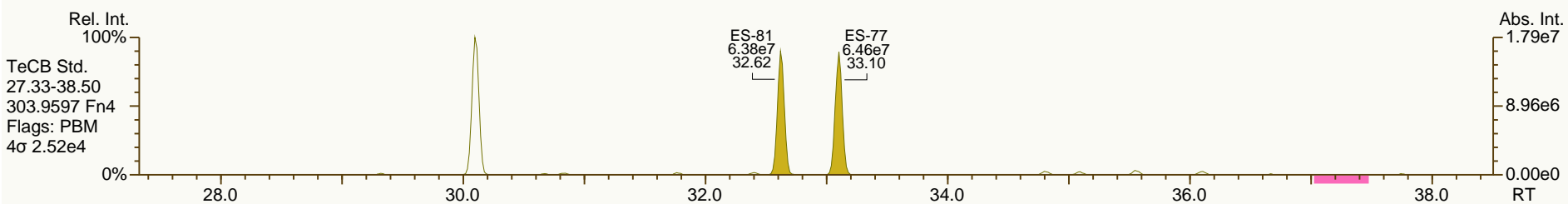
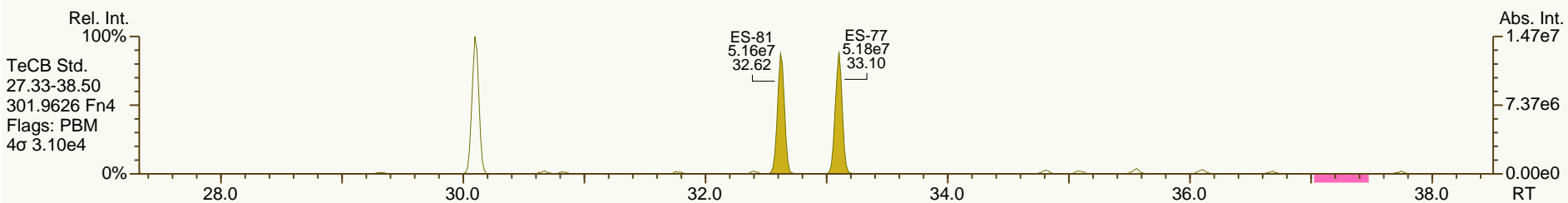
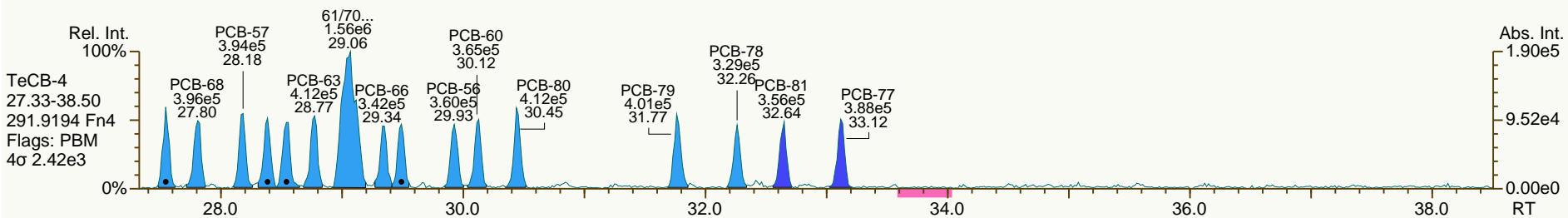
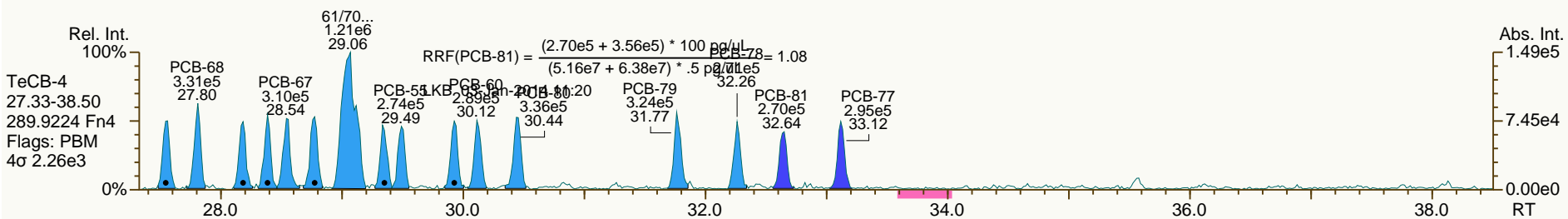




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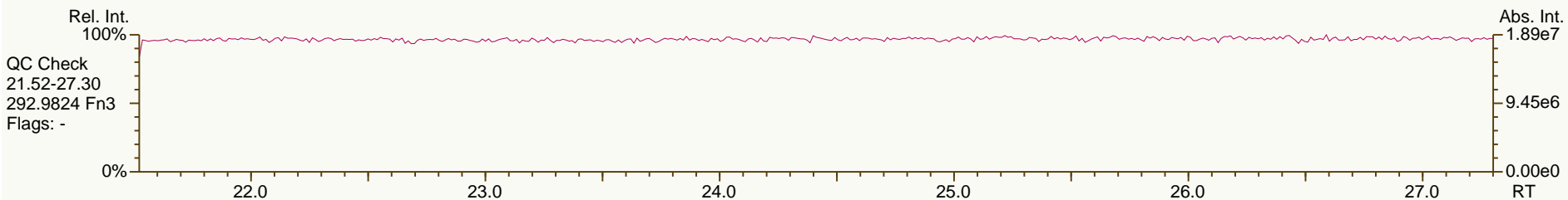
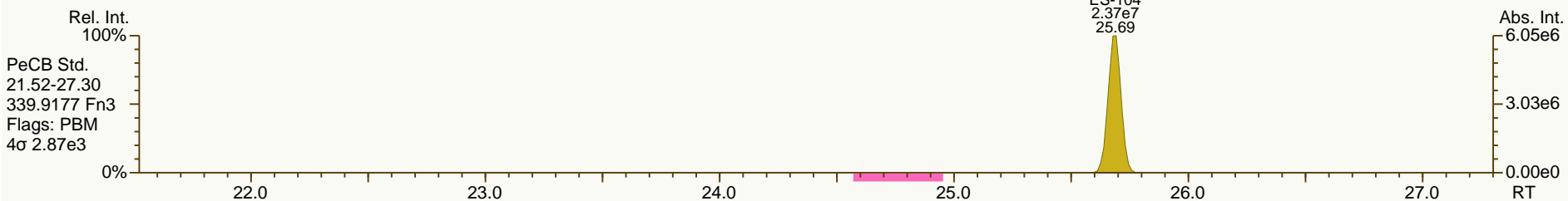
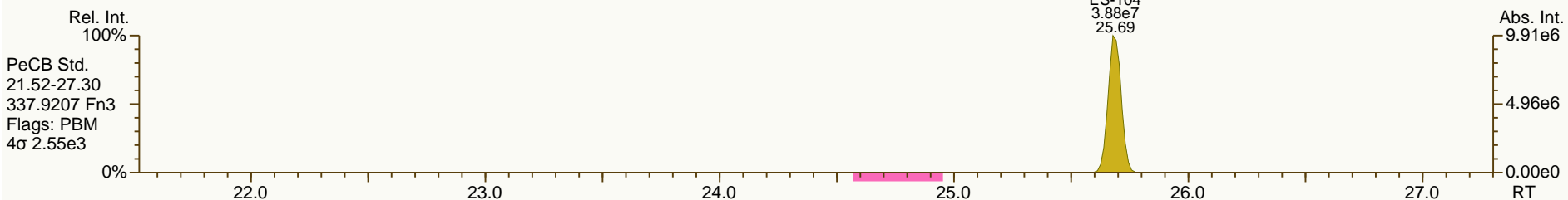
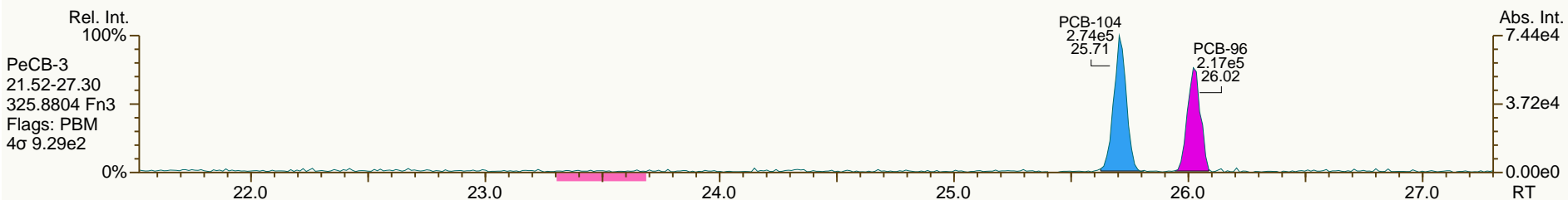
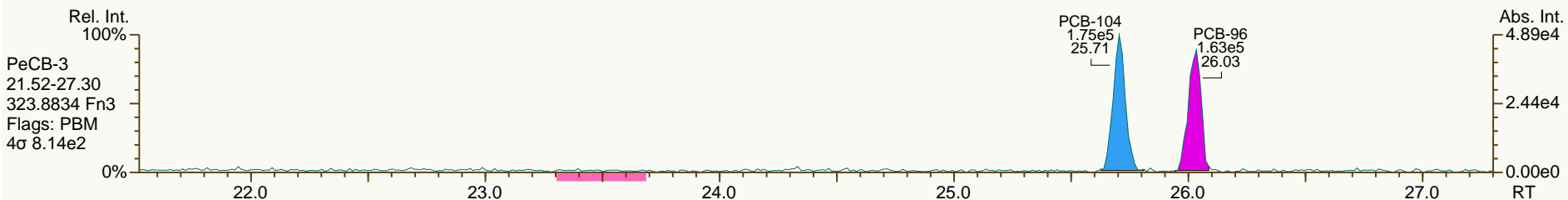
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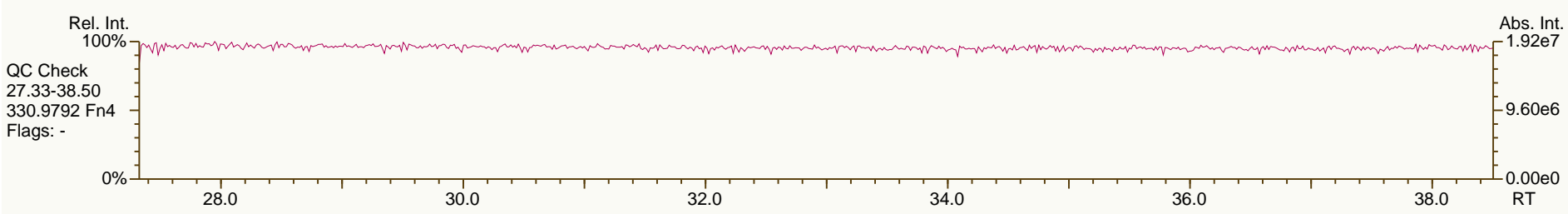
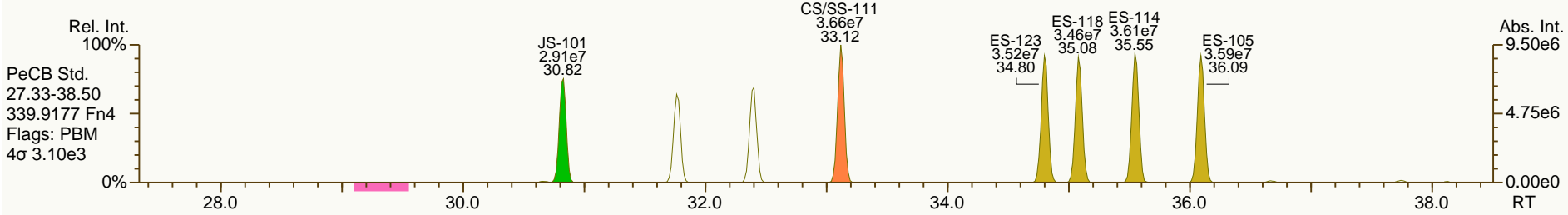
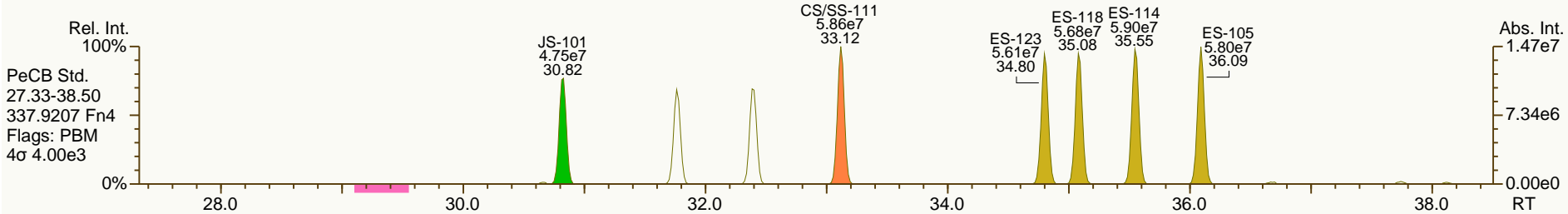
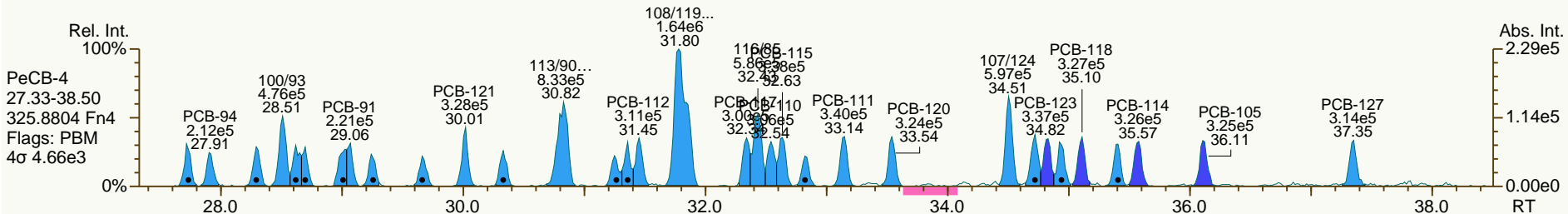
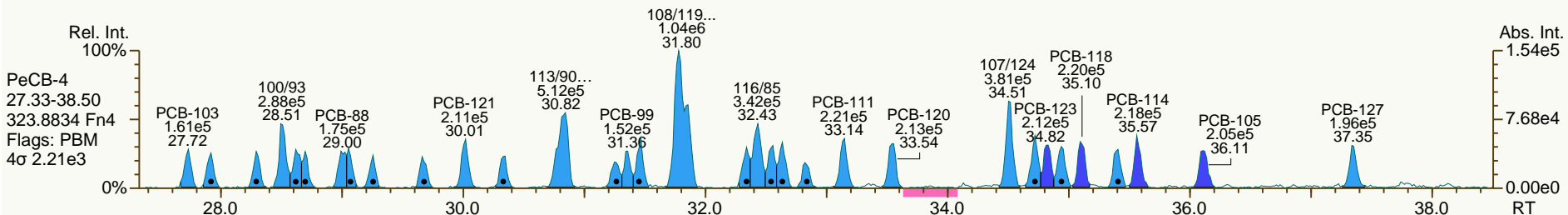
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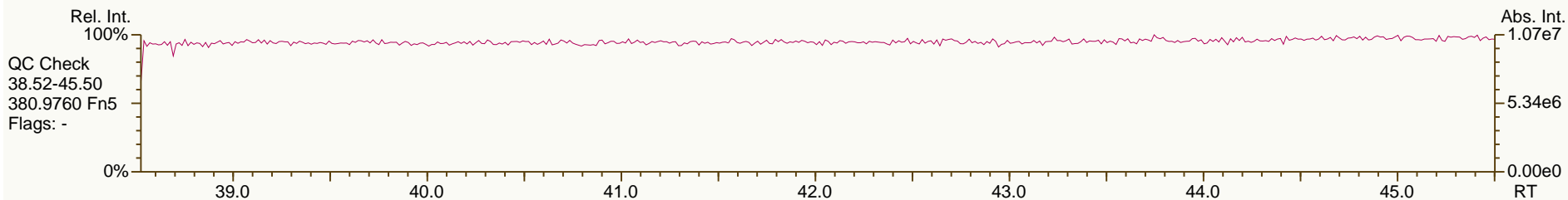
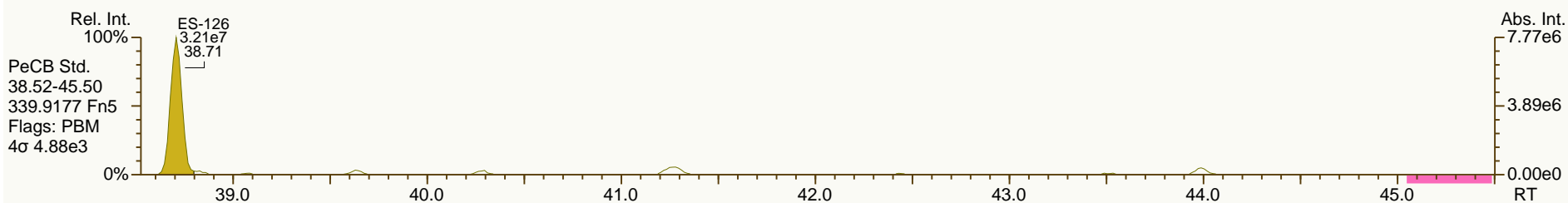
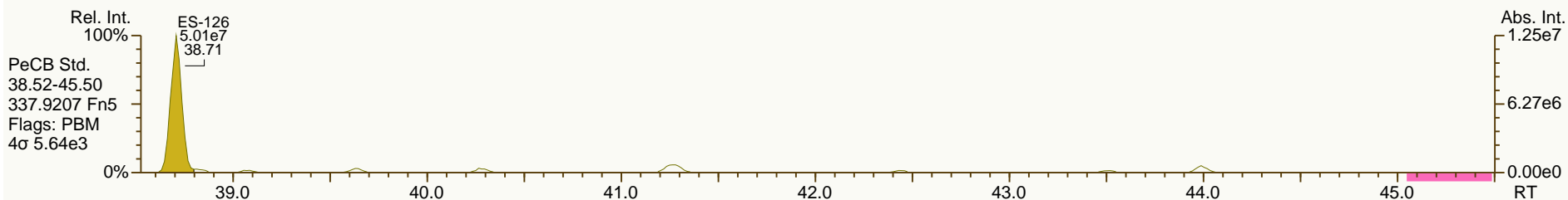
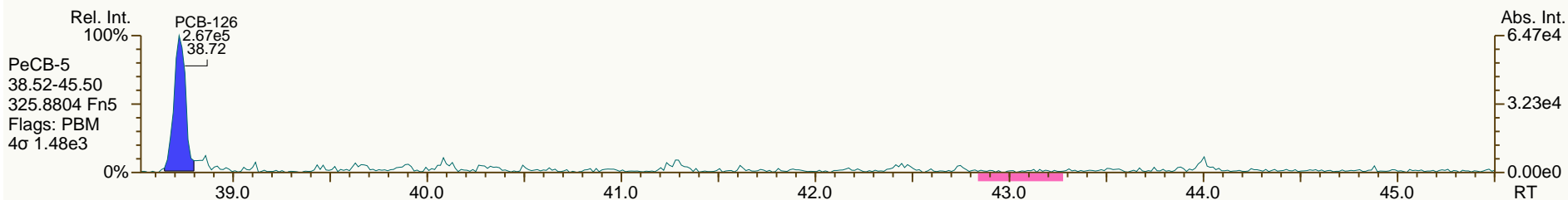
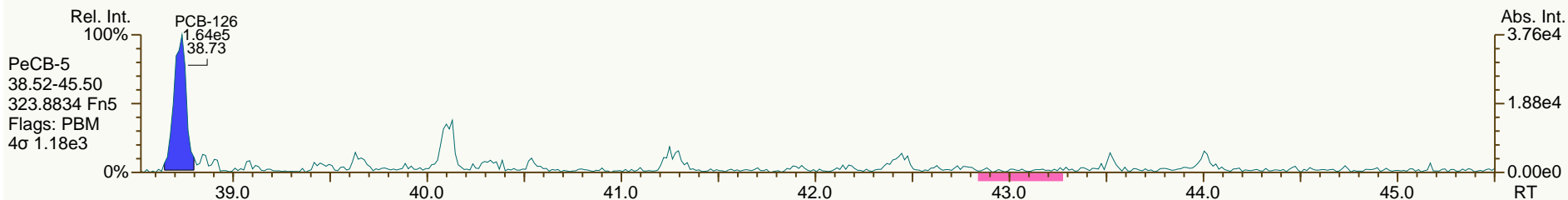
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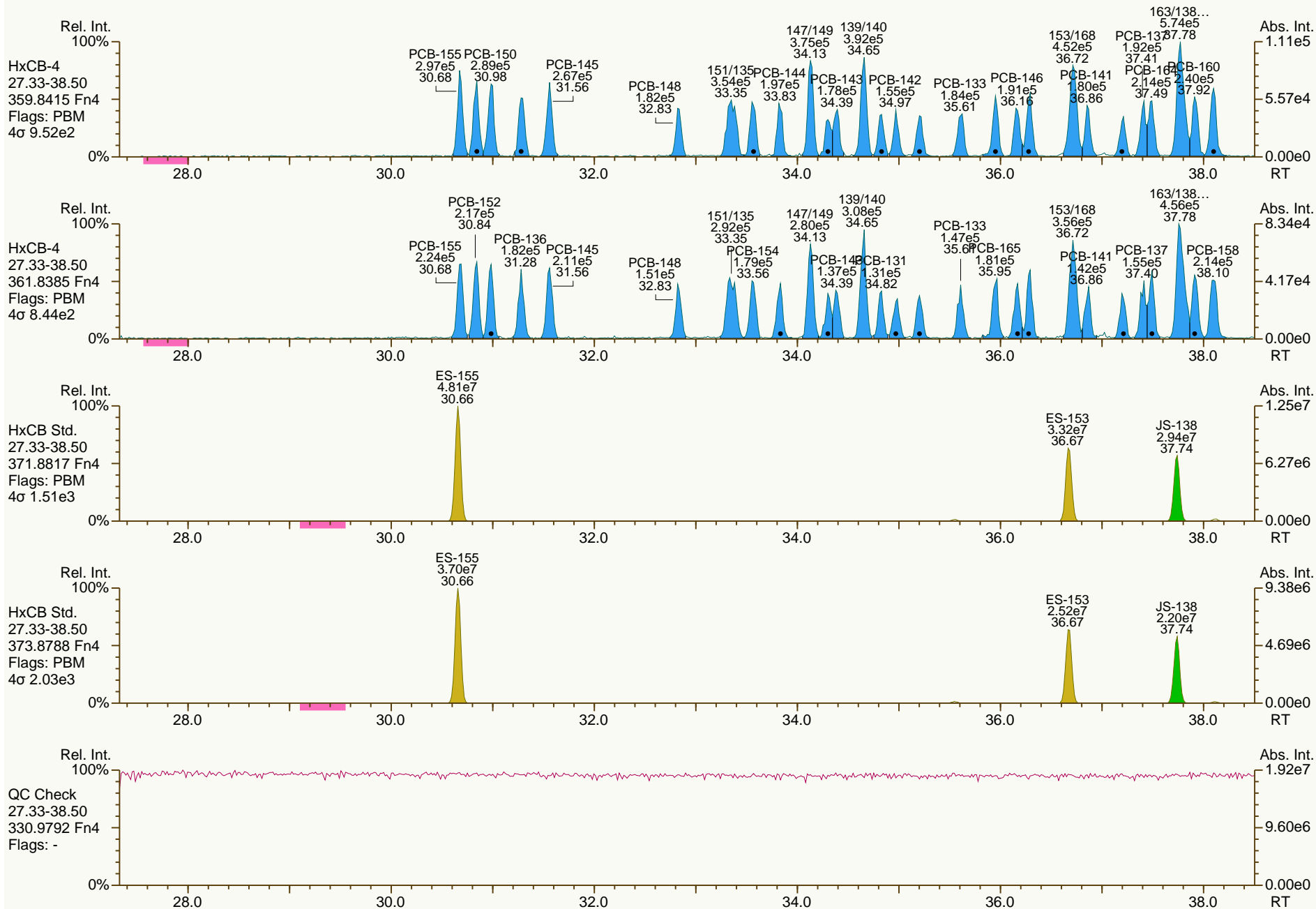
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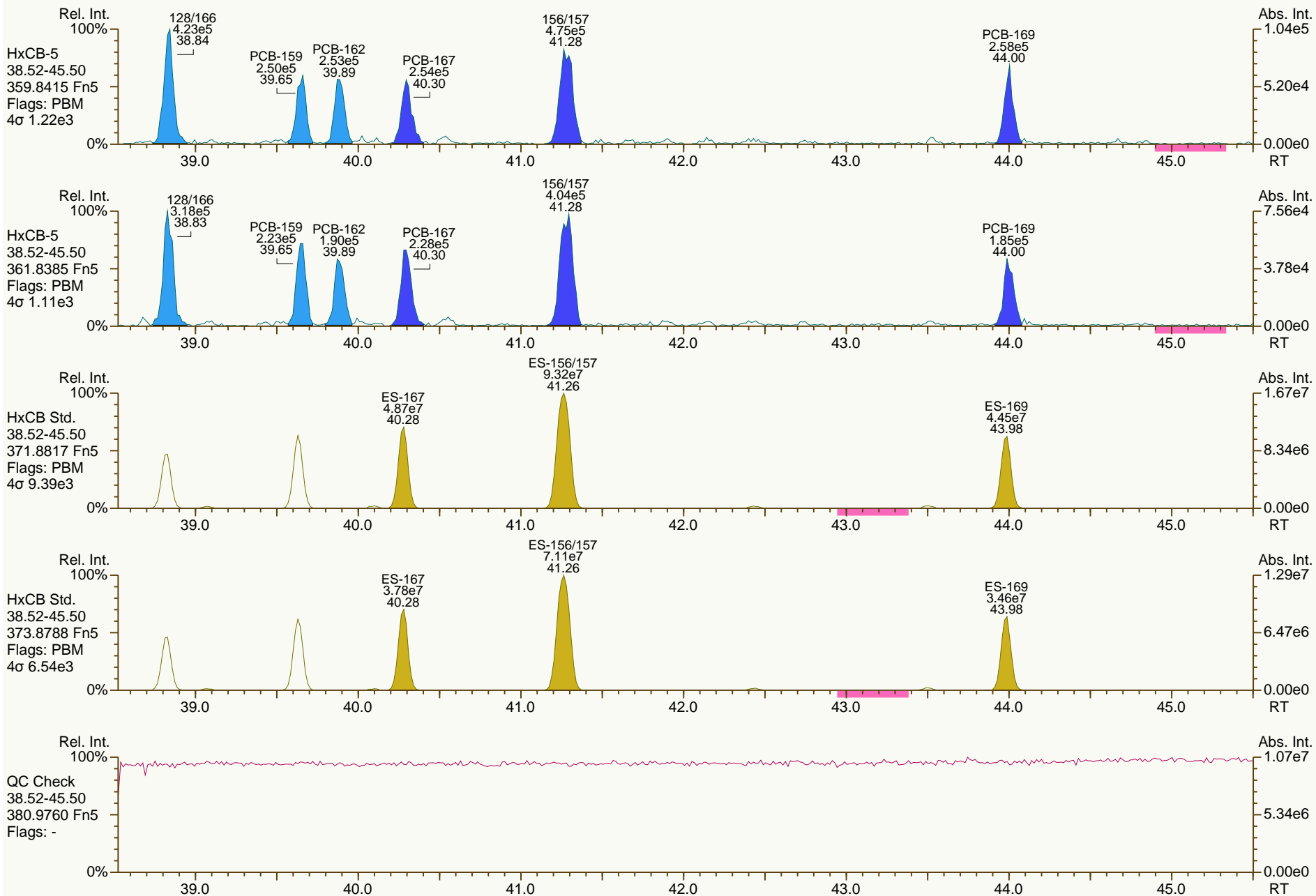
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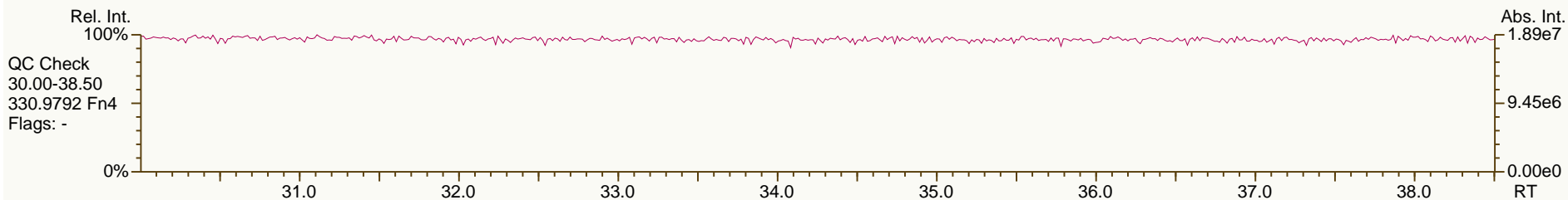
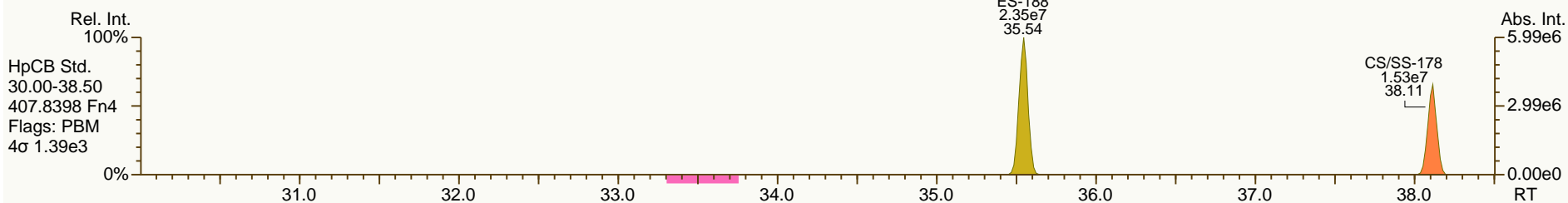
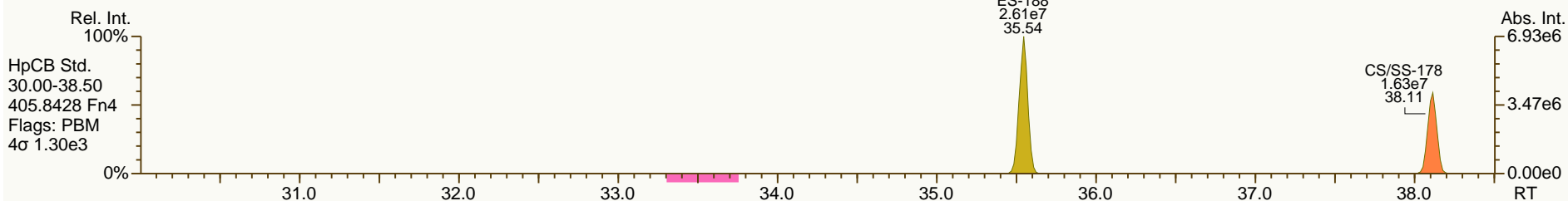
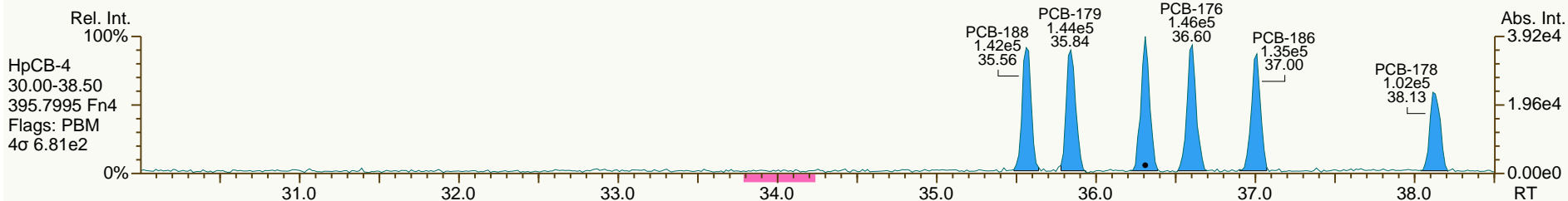
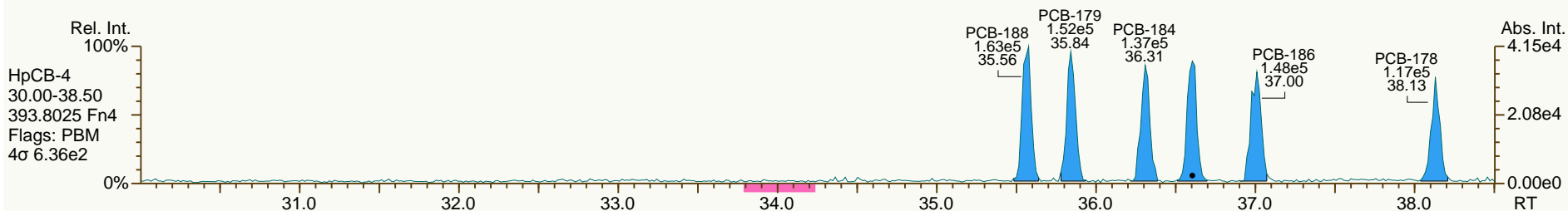
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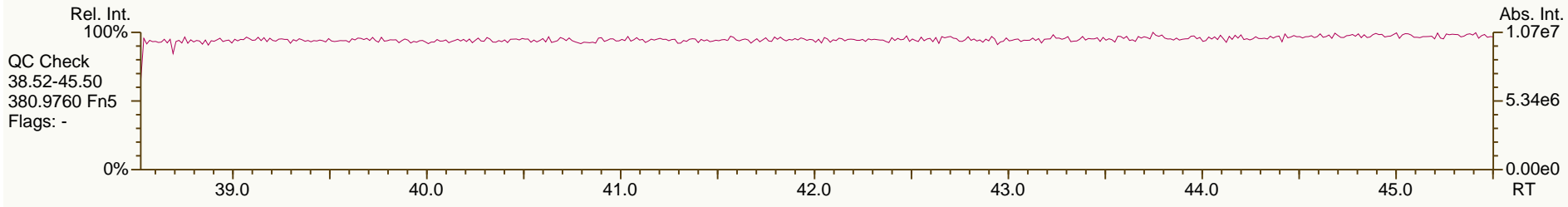
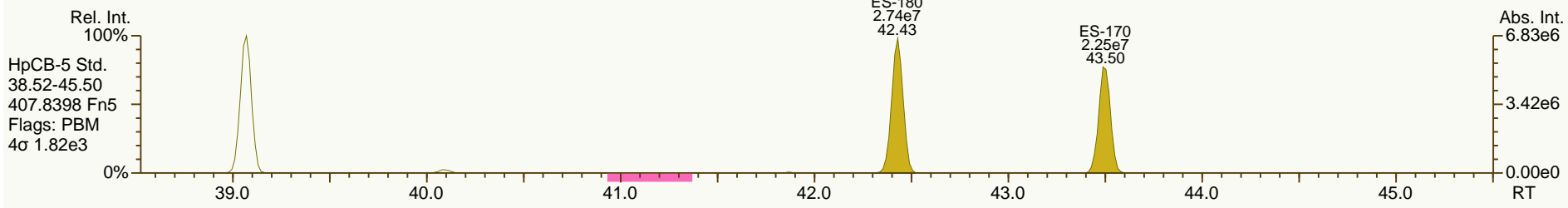
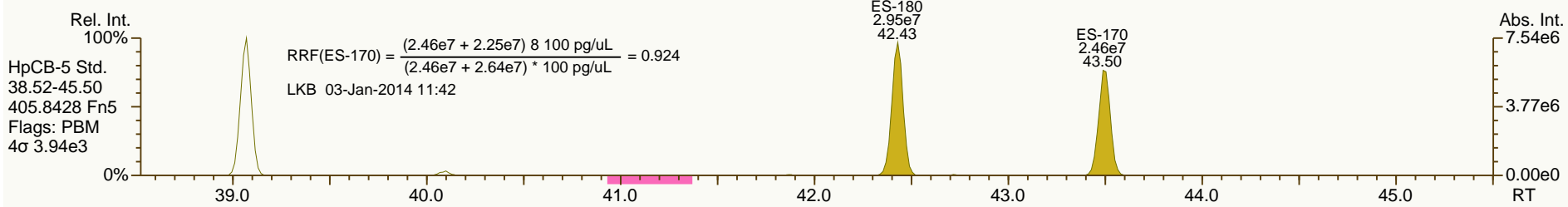
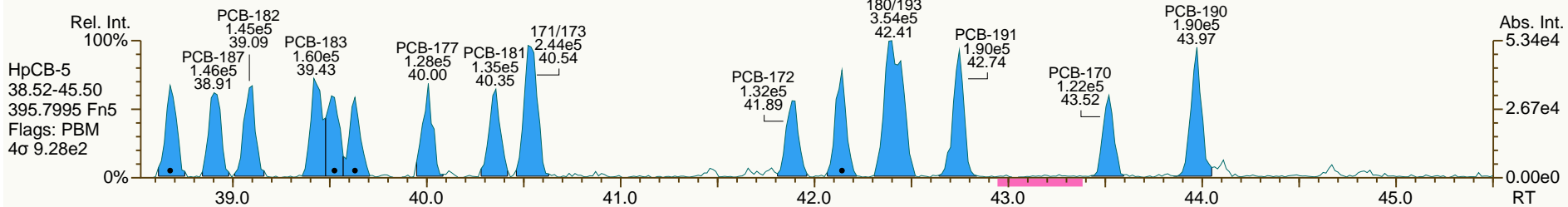
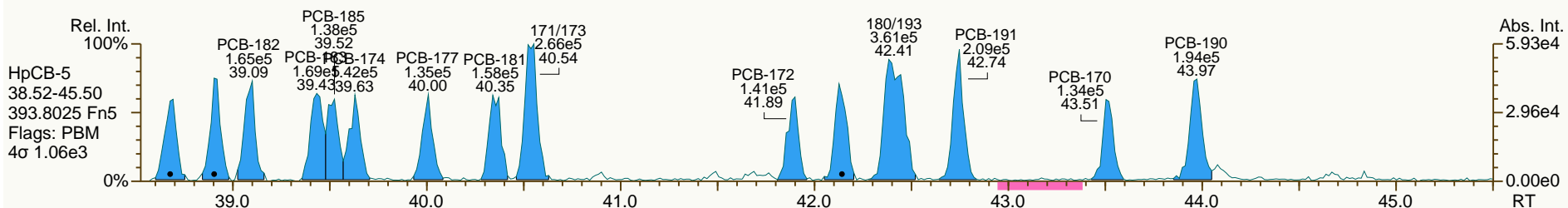
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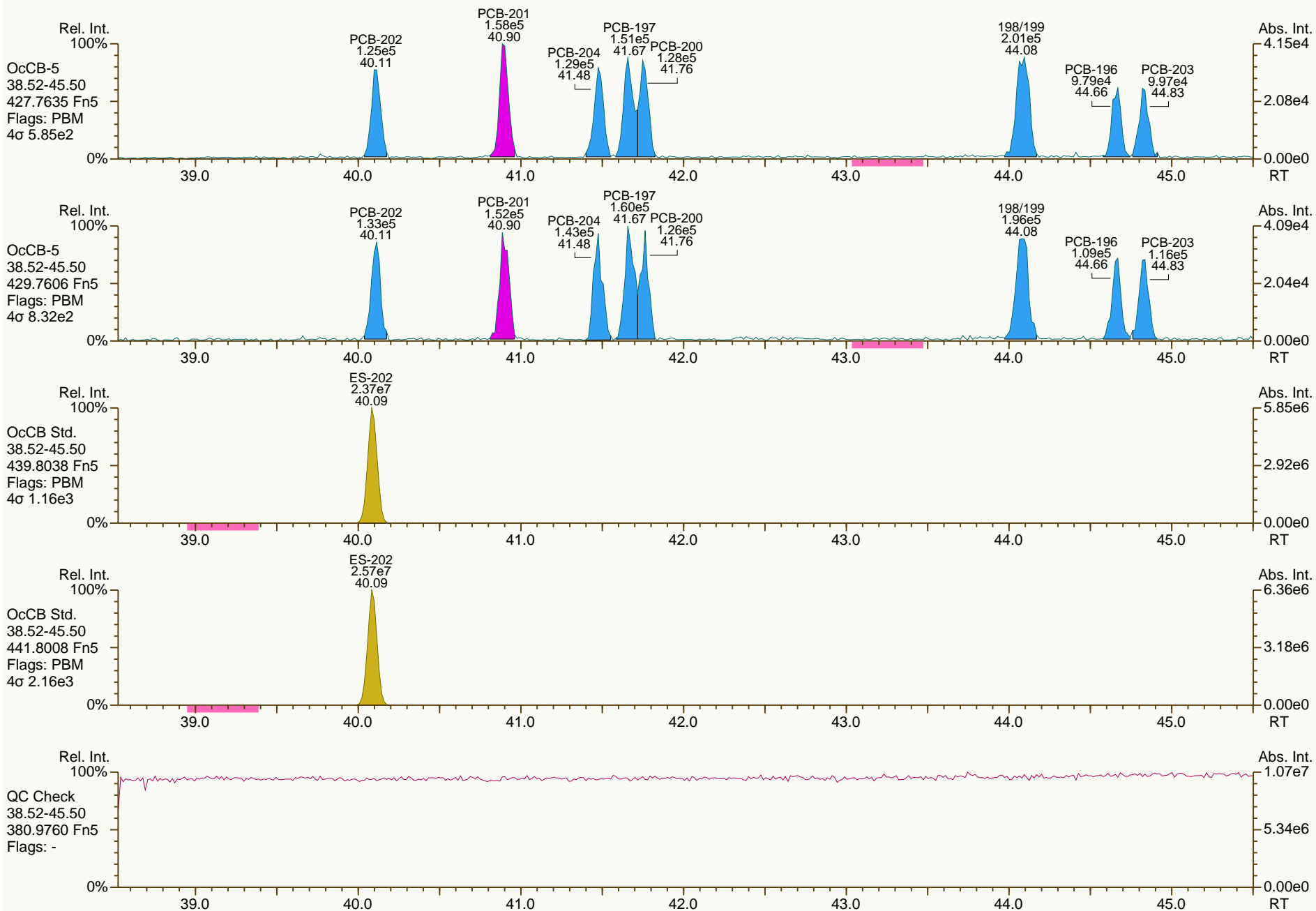
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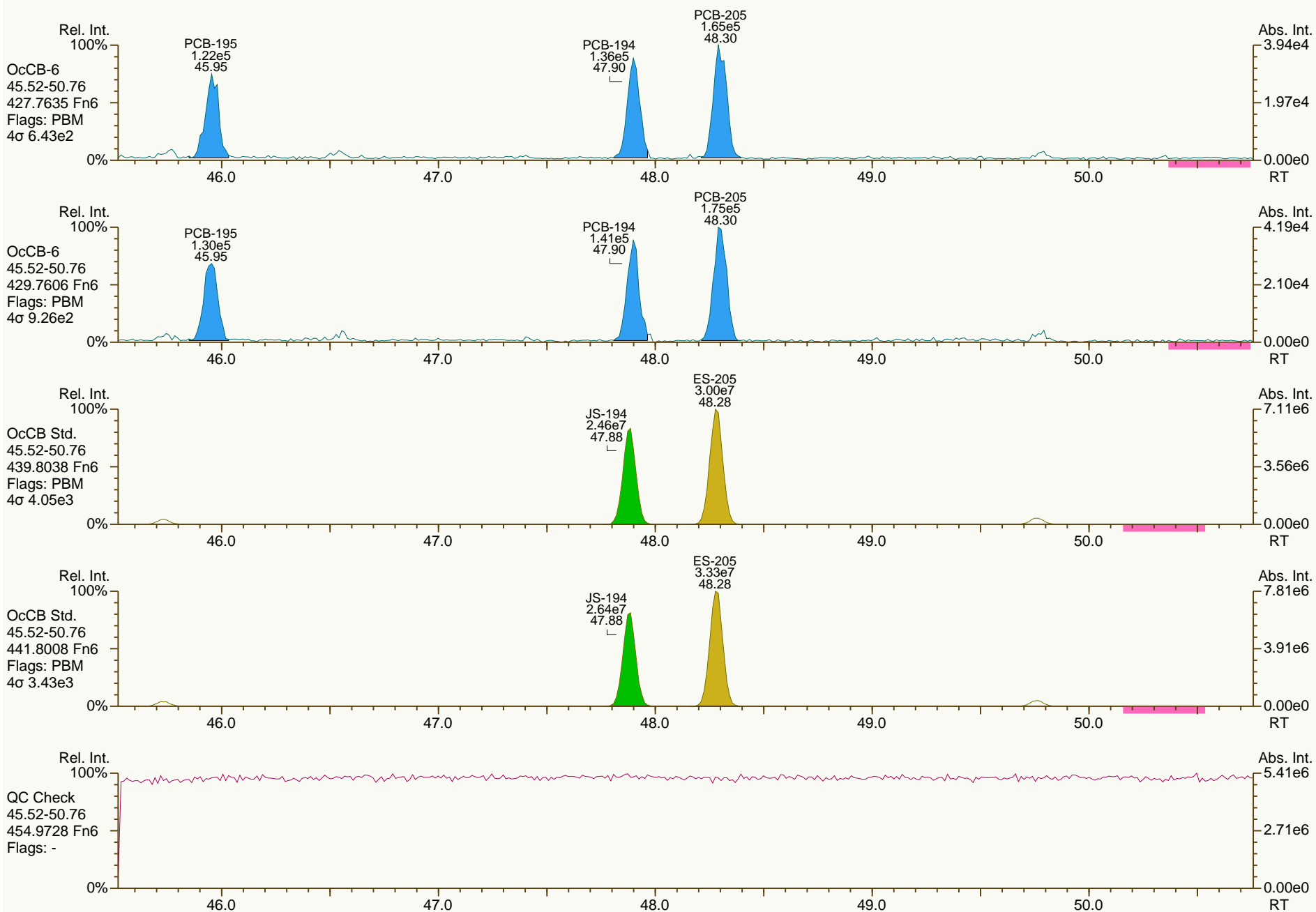
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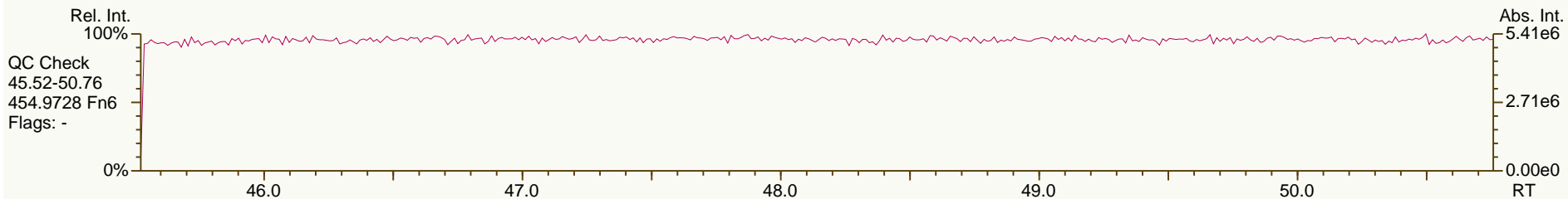
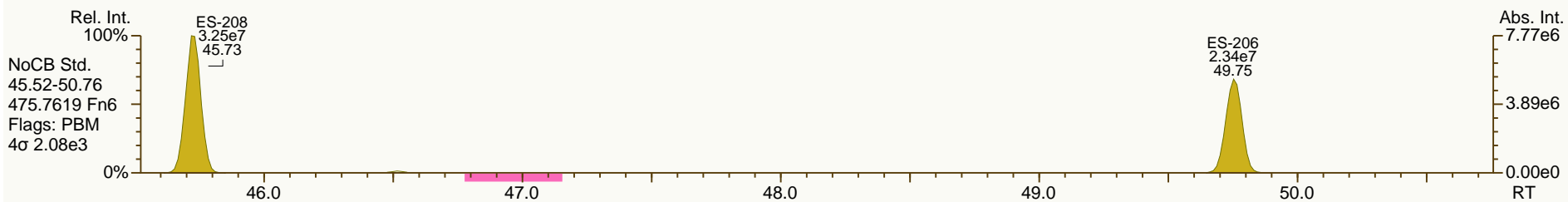
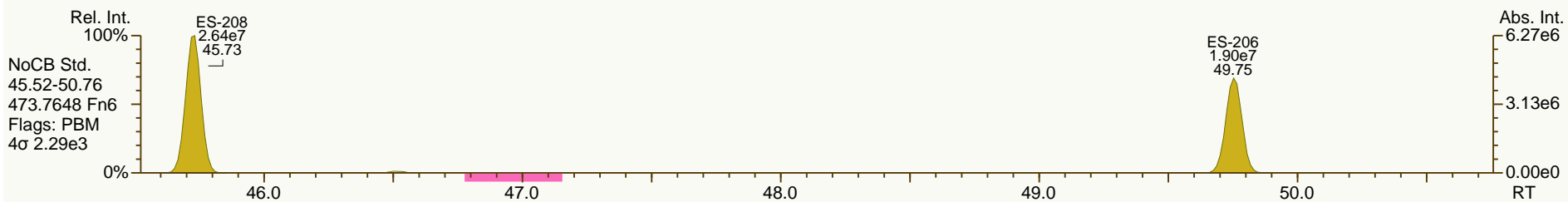
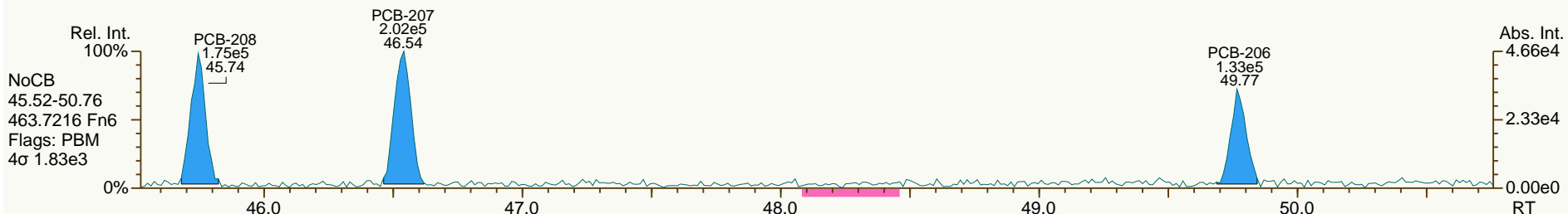
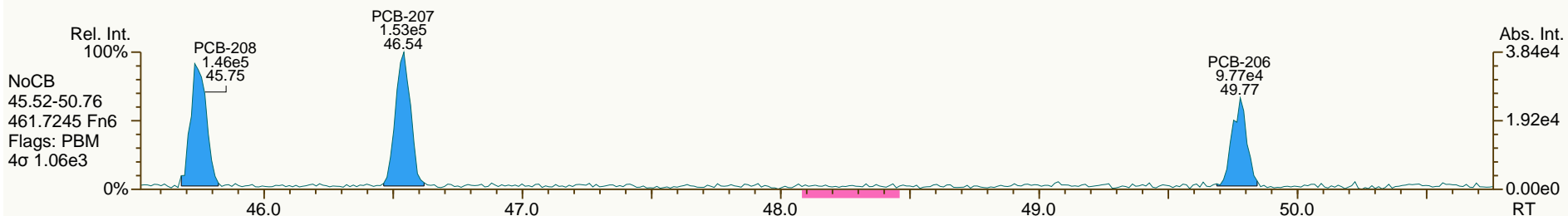
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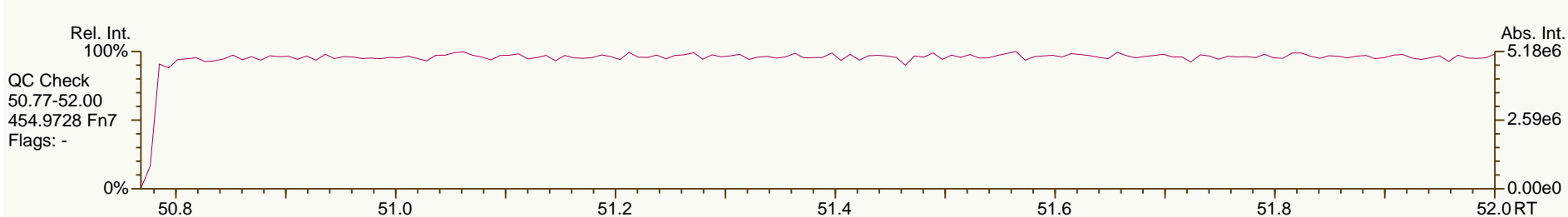
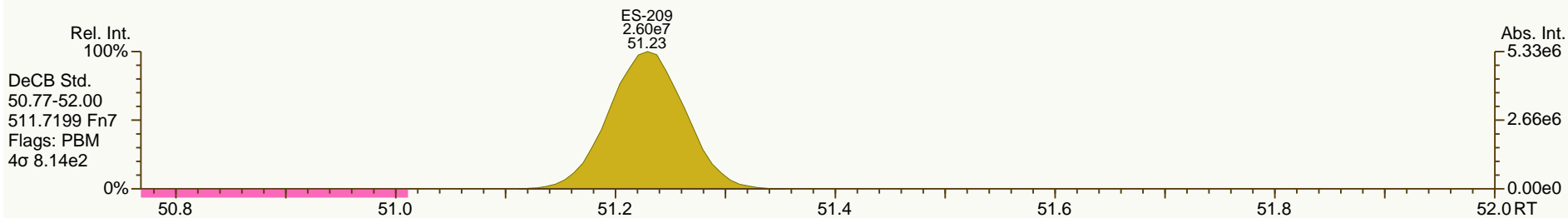
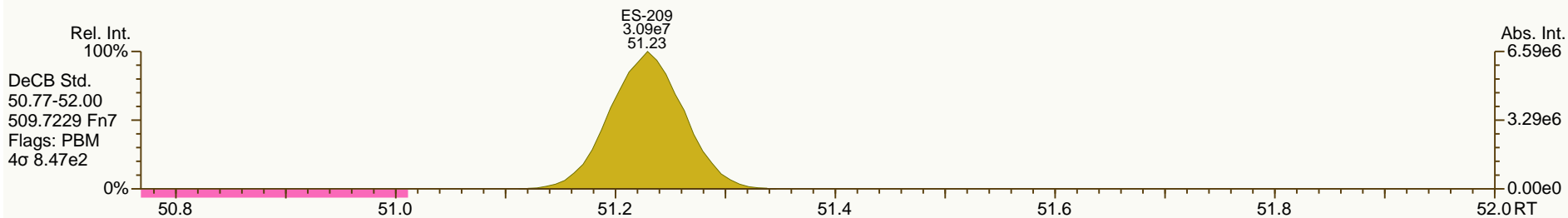
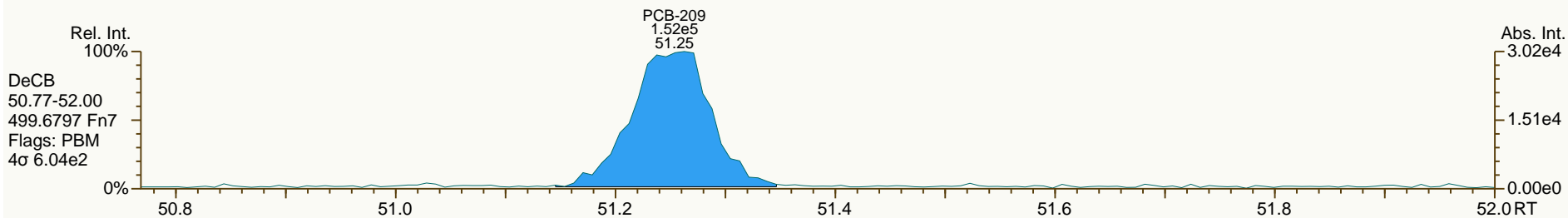
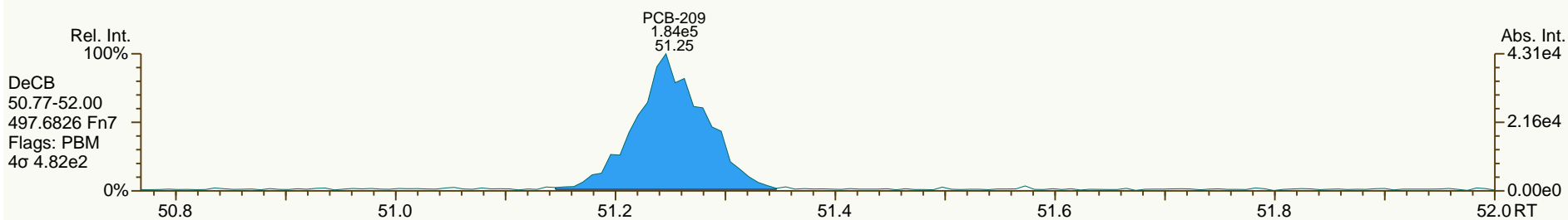
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Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-6  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 37

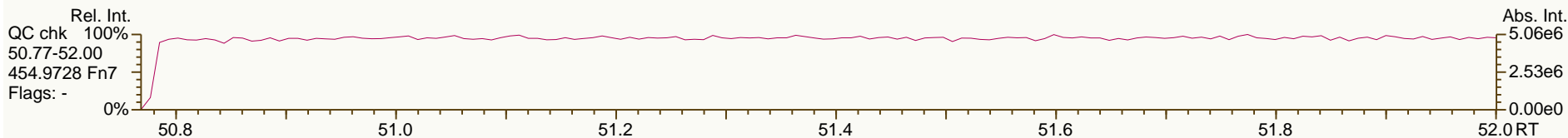
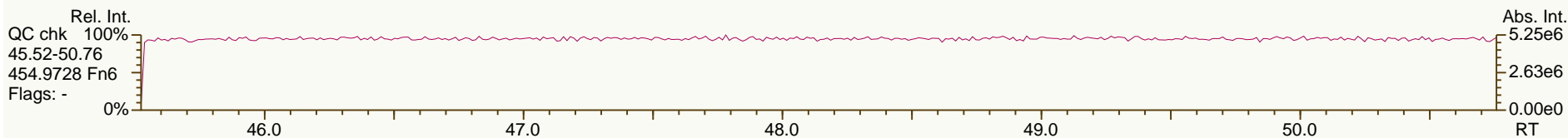
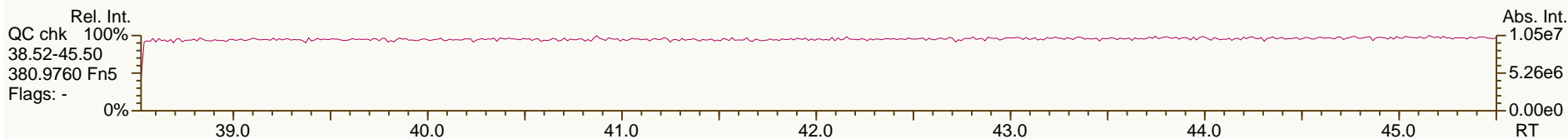
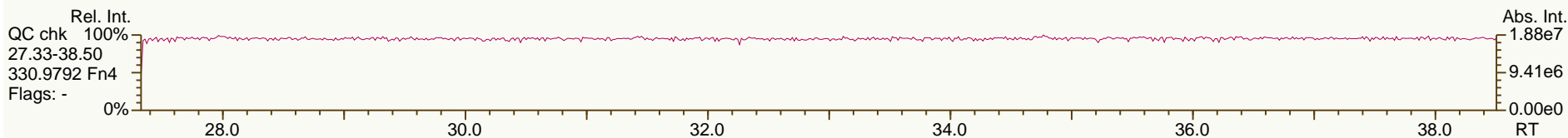
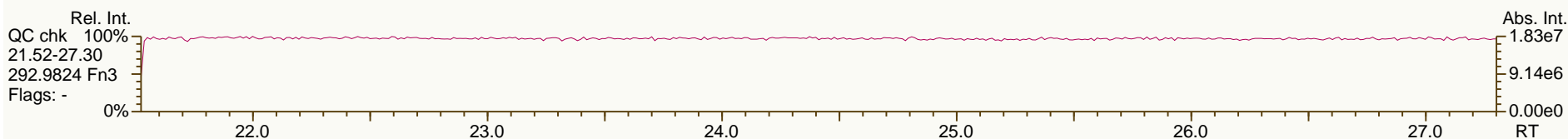
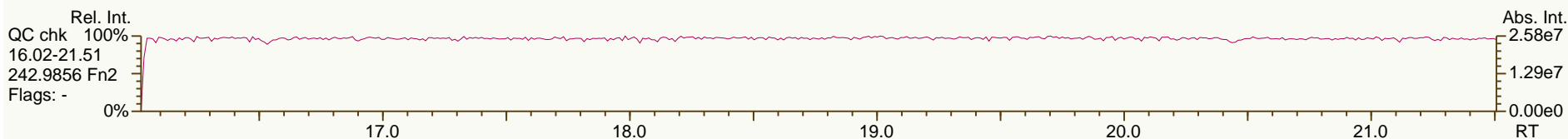
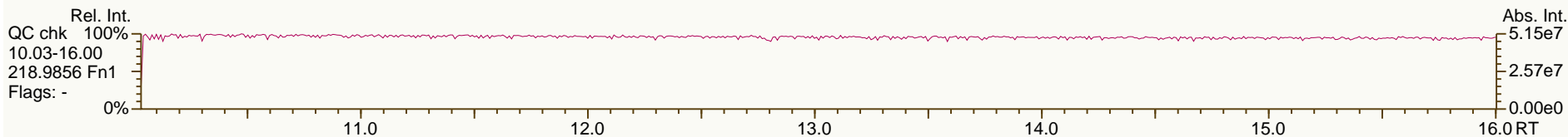
Acq: 20-Dec-2013 14:56:33  
User: LKB Datafile: 131220X02



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.12	1.44E+06	0.79 Y	1.15	1.11	-3.6%	
PCB-81 344'5'-TeCB	32.64	1.43E+06	0.81 Y	1.12	1.13	0.8%	
PCB-105 233'44'-PeCB	36.12	1.07E+06	0.63 Y	1.11	1.02	-7.9%	
PCB-114 2344'5'-PeCB	35.58	1.23E+06	0.64 Y	1.20	1.16	-3.3%	
PCB-118 23'44'5'-PeCB	35.11	1.13E+06	0.62 Y	1.19	1.13	-5.3%	
PCB-123 23'44'5'-PeCB	34.82	1.24E+06	0.61 Y	1.21	1.20	-1.2%	
PCB-126 33'44'5'-PeCB	38.73	9.39E+05	0.63 Y	1.11	1.07	-3.3%	
PCB-156/157 ...-HxCB	41.29	1.93E+06	1.26 Y	1.10	1.07	-2.5%	
PCB-167 23'44'55'-HxCB	40.30	1.07E+06	1.25 Y	1.16	1.13	-2.8%	
PCB-169 33'44'55'-HxCB	44.01	9.43E+05	1.29 Y	1.12	1.07	-4.8%	
PCB-189 233'44'55'-HpCB	46.14	8.81E+05	1.07 Y	1.07	1.00	-6.6%	
PCB-209 DeCB	51.26	6.80E+05	1.22 Y	1.11	1.10	-1.1%	
ES PCB-1	12.05	2.45E+08	3.30 Y	1.19	1.22	2.1%	
ES PCB-3	14.37	2.19E+08	3.33 Y	1.09	1.09	0.4%	
ES PCB-4	14.63	1.05E+08	1.62 Y	0.52	0.52	-0.1%	
ES PCB-15	20.39	2.08E+08	1.56 Y	1.04	1.04	-0.5%	
ES PCB-19	17.75	1.01E+08	1.09 Y	0.51	0.50	-0.8%	
ES PCB-37	26.75	1.55E+08	1.10 Y	1.66	1.64	-1.1%	
ES PCB-54	20.68	8.14E+07	0.81 Y	0.86	0.86	0.2%	
ES PCB-77	33.10	1.30E+08	0.82 Y	1.38	1.37	-0.7%	
ES PCB-81	32.63	1.27E+08	0.82 Y	1.37	1.35	-1.5%	
ES PCB-104	25.69	6.93E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.09	1.04E+08	1.61 Y	1.20	1.21	0.7%	
ES PCB-114	35.55	1.06E+08	1.64 Y	1.22	1.22	0.5%	
ES PCB-118	35.09	1.01E+08	1.61 Y	1.16	1.17	0.8%	
ES PCB-123	34.80	1.03E+08	1.61 Y	1.19	1.20	0.9%	
ES PCB-126	38.71	8.78E+07	1.58 Y	1.03	1.02	-0.9%	
ES PCB-153	36.68	6.38E+07	1.31 Y	1.11	1.11	-0.4%	
ES PCB-155	30.66	9.19E+07	1.28 Y	1.59	1.60	0.6%	
ES PCB-156/157	41.27	1.81E+08	1.29 Y	1.60	1.57	-1.9%	
ES PCB-167	40.28	9.51E+07	1.28 Y	1.67	1.65	-1.0%	
ES PCB-169	43.99	8.81E+07	1.26 Y	1.56	1.53	-1.6%	
ES PCB-170	43.50	5.21E+07	1.09 Y	0.95	0.93	-1.8%	
ES PCB-180	42.43	6.14E+07	1.09 Y	1.14	1.10	-3.7%	
ES PCB-188	35.55	5.38E+07	1.11 Y	0.94	0.93	-0.5%	
ES PCB-189	46.12	8.78E+07	1.03 Y	1.58	1.57	-1.0%	
ES PCB-202	40.09	5.52E+07	0.93 Y	0.97	0.96	-1.1%	
ES PCB-205	48.29	6.89E+07	0.90 Y	1.24	1.23	-1.2%	
ES PCB-206	49.76	4.58E+07	0.81 Y	0.83	0.82	-1.4%	
ES PCB-208	45.73	6.49E+07	0.80 Y	1.17	1.16	-1.4%	
ES PCB-209	51.23	6.17E+07	1.20 Y	1.11	1.10	-0.7%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:54		
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.18	1.73E+08	1.09 Y	1.11	1.12	0.7%	
SS PCB-111	33.12	1.05E+08	1.58 Y	1.03	1.02	-0.8%	
SS PCB-178	38.12	3.27E+07	1.10 Y	0.62	0.61	-1.9%	
CS PCB-28	23.18	1.73E+08	1.09 Y	1.85	1.84	-0.4%	
CS PCB-111	33.12	1.05E+08	1.58 Y	1.22	1.22	0.1%	
CS PCB-178	38.12	3.27E+07	1.10 Y	0.58	0.57	-2.4%	
JS PCB-9	16.63	2.01E+08	1.58 Y	-	-	-	
JS PCB-52	24.81	9.43E+07	0.81 Y	-	-	-	
JS PCB-101	30.82	8.62E+07	1.61 Y	-	-	-	
JS PCB-138	37.74	5.75E+07	1.31 Y	-	-	-	
JS PCB-194	47.89	5.60E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.06	2.30E+06	3.36 Y	0.95	0.94	-1.3%	
PCB-2 3-MoCB	14.20	2.22E+06	3.19 Y	1.03	1.01	-2.1%	
PCB-3 4-MoCB	14.39	2.16E+06	3.09 Y	1.01	0.98	-2.5%	
PCB-4 22'-DiCB	14.65	1.26E+06	1.52 Y	1.23	1.20	-2.4%	
PCB-10 26'-DiCB	14.83	1.99E+06	1.53 Y	1.98	1.90	-4.3%	
PCB-9 25'-DiCB	16.65	1.98E+06	1.52 Y	0.95	0.95	0.8%	
PCB-7 24'-DiCB	16.82	2.15E+06	1.55 Y	1.05	1.03	-1.3%	
PCB-6 23'-DiCB	17.04	1.96E+06	1.59 Y	1.00	0.94	-5.2%	
PCB-5 23'-DiCB	17.35	1.92E+06	1.63 Y	1.00	0.92	-7.9%	
PCB-8 24'-DiCB	17.47	2.06E+06	1.64 Y	1.03	0.99	-4.3%	
PCB-14 35'-DiCB	19.04	2.37E+06	1.53 Y	1.18	1.14	-3.6%	
PCB-11 33'-DiCB	19.83	1.97E+06	1.60 Y	1.01	0.95	-6.2%	
PCB-13/12 34'/34'-DiCB	20.12	4.01E+06	1.64 Y	0.99	0.96	-2.7%	
PCB-15 44'-DiCB	20.41	2.04E+06	1.55 Y	1.02	0.98	-4.0%	
PCB-19 22'6'-TrCB	17.77	1.13E+06	1.07 Y	1.15	1.12	-2.6%	
PCB-30/18 246/22'5'-TrCB	19.54	2.96E+06	1.02 Y	1.54	1.47	-4.3%	
PCB-17 22'4'-TrCB	19.95	1.29E+06	1.05 Y	1.31	1.28	-1.9%	
PCB-27 23'6'-TrCB	20.14	1.77E+06	1.07 Y	1.82	1.76	-3.4%	
PCB-24 236'-TrCB	20.28	1.71E+06	1.05 Y	1.72	1.69	-1.8%	
PCB-16 22'3'-TrCB	20.37	9.51E+05	1.08 Y	1.01	0.94	-6.2%	
PCB-32 24'6'-TrCB	20.85	1.93E+06	1.04 Y	1.92	1.91	-0.2%	
PCB-34 23'5'-TrCB	22.01	1.70E+06	1.01 Y	1.14	1.09	-3.6%	
PCB-23 235'-TrCB	22.16	1.69E+06	1.02 Y	1.16	1.09	-5.7%	
PCB-26/29 23'5'/245'-TrCB	22.45	3.54E+06	1.00 Y	1.17	1.14	-2.6%	
PCB-25 23'4'-TrCB	22.64	1.76E+06	0.93 Y	1.16	1.14	-1.8%	
PCB-31 24'5'-TrCB	22.93	1.79E+06	1.00 Y	1.23	1.16	-5.5%	
PCB-28/20 244'/233'-TrCB	23.21	3.35E+06	0.97 Y	1.13	1.08	-4.5%	
PCB-21/33 234'/23'4'-TrCB	23.39	3.53E+06	1.00 Y	1.17	1.14	-3.0%	
PCB-22 234'-TrCB	23.77	1.63E+06	0.98 Y	1.08	1.05	-2.5%	
PCB-36 33'5'-TrCB	25.16	1.74E+06	0.96 Y	1.17	1.12	-4.1%	
PCB-39 34'5'-TrCB	25.48	1.81E+06	0.98 Y	1.21	1.16	-3.9%	
PCB-38 345'-TrCB	26.02	1.68E+06	1.02 Y	1.10	1.08	-1.9%	
PCB-35 33'4'-TrCB	26.41	1.52E+06	0.97 Y	1.04	0.98	-5.4%	
PCB-37 344'-TrCB	26.77	1.62E+06	1.01 Y	1.08	1.05	-3.0%	
PCB-54 22'66'-TeCB	20.70	1.09E+06	0.81 Y	1.35	1.34	-0.7%	
PCB-50/53 22'46'/22'56'-TeCB	22.70	2.16E+06	0.78 Y	0.88	0.85	-2.9%	
PCB-45 22'36'-TeCB	23.29	9.68E+05	0.81 Y	0.77	0.76	-0.6%	
PCB-51 22'46'-TeCB	23.37	1.04E+06	0.82 Y	0.86	0.82	-4.6%	
PCB-46 22'36'-TeCB	23.57	8.57E+05	0.74 Y	0.70	0.68	-3.4%	
PCB-52 22'55'-TeCB	24.83	1.06E+06	0.77 Y	0.84	0.83	-1.4%	
PCB-73 23'5'6'-TeCB	24.97	1.35E+06	0.75 Y	1.11	1.06	-4.6%	
PCB-43 22'35'-TeCB	25.06	8.63E+05	0.75 Y	0.71	0.68	-4.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.26	2.50E+06	0.75 Y	1.02	0.98	-3.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.54	1.01E+06	0.77 Y	0.84	0.79	-5.5%	
PCB-44/47/65 ...-TeCB	25.76	3.36E+06	0.79 Y	0.90	0.88	-2.5%	
PCB-59/62/75 ...-TeCB	26.04	4.29E+06	0.80 Y	1.17	1.13	-3.3%	
PCB-42 22'34'-TeCB	26.20	9.26E+05	0.75 Y	0.76	0.73	-4.4%	
PCB-41 22'34'-TeCB	26.54	8.37E+05	0.80 Y	0.69	0.66	-5.2%	
PCB-71/40 23'4'6/22'33'-TeCB	26.63	2.09E+06	0.82 Y	0.86	0.82	-4.1%	
PCB-64 234'6'-TeCB	26.83	1.50E+06	0.75 Y	1.22	1.18	-3.1%	
PCB-72 23'55'-TeCB	27.55	1.50E+06	0.80 Y	1.21	1.18	-2.1%	
PCB-68 23'45'-TeCB	27.81	1.57E+06	0.77 Y	1.28	1.24	-3.0%	
PCB-57 233'5'-TeCB	28.18	1.41E+06	0.85 Y	1.16	1.11	-4.3%	
PCB-58 233'5'-TeCB	28.38	1.44E+06	0.79 Y	1.18	1.13	-4.0%	
PCB-67 23'45'-TeCB	28.54	1.59E+06	0.76 Y	1.26	1.25	-0.7%	
PCB-63 234'5'-TeCB	28.77	1.60E+06	0.79 Y	1.30	1.26	-3.2%	
PCB-61/70/74/76 ...-TeCB	29.06	5.90E+06	0.78 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.34	1.35E+06	0.80 Y	1.10	1.06	-3.5%	
PCB-55 233'4'-TeCB	29.49	1.40E+06	0.79 Y	1.12	1.10	-1.8%	
PCB-56 233'4'-TeCB	29.93	1.33E+06	0.78 Y	1.11	1.05	-5.4%	
PCB-60 2344'-TeCB	30.12	1.42E+06	0.78 Y	1.14	1.12	-1.4%	
PCB-80 33'55'-TeCB	30.45	1.64E+06	0.76 Y	1.31	1.29	-1.8%	
PCB-79 33'45'-TeCB	31.78	1.69E+06	0.80 Y	1.31	1.33	1.6%	
PCB-78 33'45'-TeCB	32.27	1.26E+06	0.77 Y	1.06	0.99	-6.5%	
PCB-104 22'466'-PeCB	25.71	9.78E+05	0.64 Y	1.43	1.41	-1.5%	
PCB-96 22'366'-PeCB	26.03	8.58E+05	0.71 Y	1.23	1.24	0.8%	
PCB-103 22'45'6'-PeCB	27.72	9.36E+05	0.64 Y	0.93	0.91	-2.5%	
PCB-94 22'356'-PeCB	27.91	7.83E+05	0.65 Y	0.80	0.76	-5.2%	
PCB-95 22'35'6'-PeCB	28.30	8.29E+05	0.59 Y	0.87	0.80	-7.3%	
PCB-100/93 22'44'6/22'356'-PeCB	28.51	1.71E+06	0.59 Y	0.86	0.83	-4.0%	
PCB-102 22'456'-PeCB	28.63	9.57E+05	0.62 Y	0.97	0.93	-4.2%	
PCB-98 22'34'6'-PeCB	28.69	7.04E+05	0.64 Y	0.76	0.68	-10.0%	
PCB-88 22'346'-PeCB	28.99	7.38E+05	0.59 Y	0.80	0.72	-10.4%	
PCB-91 22'34'6'-PeCB	29.06	9.82E+05	0.56 Y	0.94	0.95	0.8%	
PCB-84 22'33'6'-PeCB	29.25	6.84E+05	0.58 Y	0.72	0.66	-7.4%	
PCB-89 22'346'-PeCB	29.67	7.66E+05	0.63 Y	0.76	0.74	-2.8%	
PCB-121 23'45'6'-PeCB	30.02	1.19E+06	0.67 Y	1.20	1.15	-3.9%	
PCB-92 22'355'-PeCB	30.33	8.33E+05	0.61 Y	0.82	0.81	-1.6%	
PCB-113/90/101 ...-PeCB	30.82	2.96E+06	0.62 Y	0.99	0.96	-2.9%	
PCB-83 22'33'5'-PeCB	31.26	7.27E+05	0.67 Y	0.71	0.70	-1.5%	
PCB-99 22'44'5'-PeCB	31.36	9.10E+05	0.63 Y	0.92	0.88	-4.2%	
PCB-112 233'56'-PeCB	31.46	1.16E+06	0.65 Y	1.17	1.12	-3.8%	
PCB-108/119/86/97/125...-PeCB	31.80	5.82E+06	0.61 Y	0.98	0.94	-4.0%	
PCB-117 234'56'-PeCB	32.34	1.19E+06	0.62 Y	1.14	1.15	1.3%	
PCB-116/85 23456/22'344'-PeCB	32.43	1.79E+06	0.62 Y	0.94	0.87	-7.6%	
PCB-110 233'4'6'-PeCB	32.54	1.10E+06	0.62 Y	1.12	1.07	-4.4%	

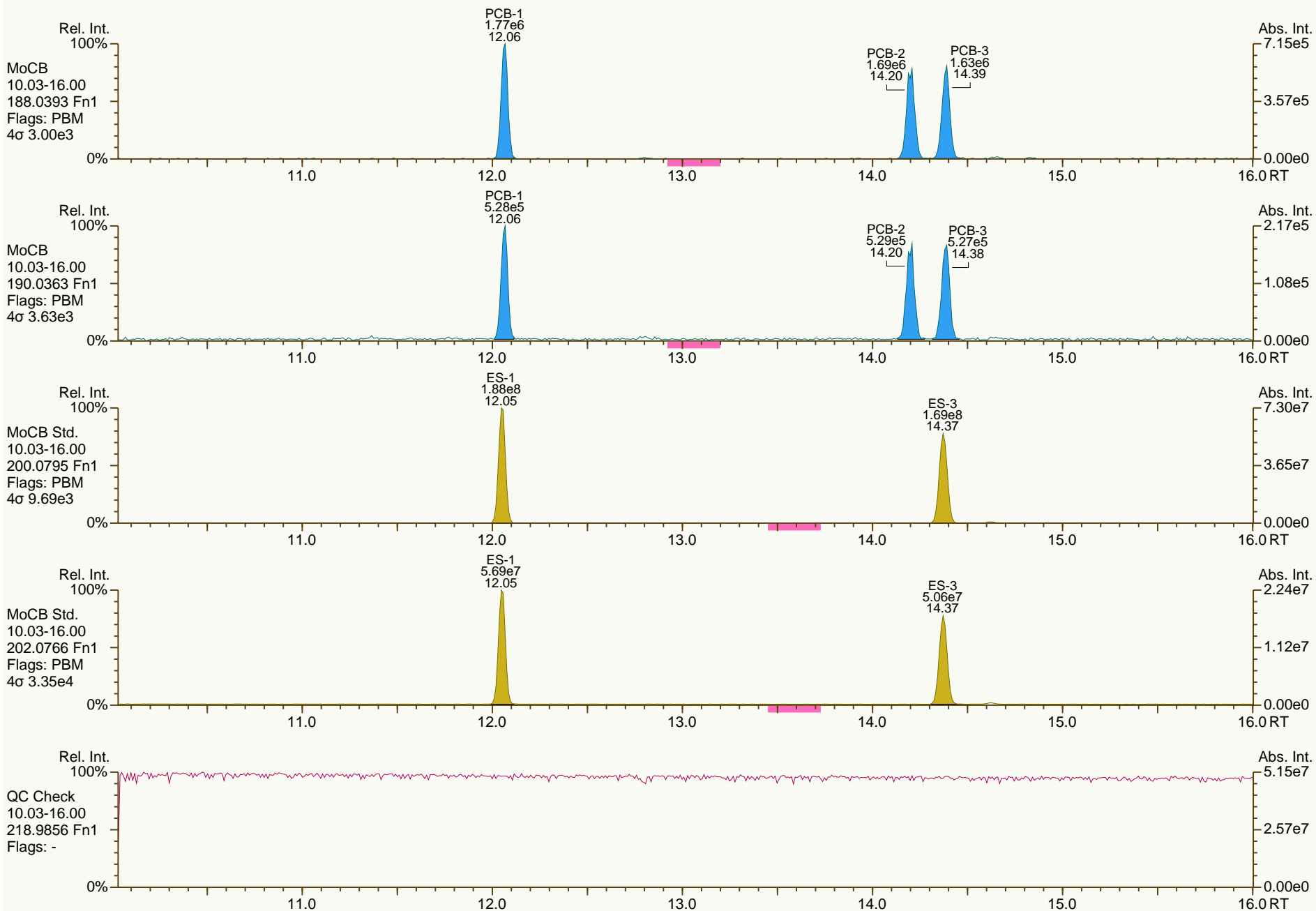
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.63	1.15E+06	0.66 Y	1.16	1.11	-4.2%	
PCB-82 22'33'4-PeCB	32.83	6.91E+05	0.62 Y	0.70	0.67	-4.0%	
PCB-111 233'55'-PeCB	33.15	1.20E+06	0.64 Y	1.22	1.17	-4.5%	
PCB-120 23'455'-PeCB	33.54	1.18E+06	0.65 Y	1.21	1.14	-5.6%	
PCB-107/124 ...-PeCB	34.51	2.12E+06	0.63 Y	1.10	1.03	-6.4%	
PCB-109 233'46-PeCB	34.72	1.09E+06	0.61 Y	1.25	1.05	-16.1%	
PCB-106 233'45-PeCB	34.94	1.12E+06	0.63 Y	1.11	1.08	-2.0%	
PCB-122 233'4'5'-PeCB	35.40	1.01E+06	0.63 Y	0.99	0.96	-3.7%	
PCB-127 33'455'-PeCB	37.35	1.08E+06	0.63 Y	1.10	1.04	-5.5%	
PCB-155 22'44'66'-HxCB	30.68	1.15E+06	1.32 Y	1.26	1.25	-1.1%	
PCB-152 22'3566'-HxCB	30.84	1.03E+06	1.37 Y	1.17	1.12	-4.2%	
PCB-150 22'34'66'-HxCB	30.98	1.02E+06	1.19 Y	1.18	1.10	-6.1%	
PCB-136 22'33'66'-HxCB	31.29	8.99E+05	1.33 Y	1.07	0.98	-8.3%	
PCB-145 22'3466'-HxCB	31.56	1.00E+06	1.26 Y	1.11	1.09	-2.4%	
PCB-148 22'34'56'-HxCB	32.83	7.25E+05	1.41 Y	1.18	1.14	-3.9%	
PCB-151/135 ...-HxCB	33.36	1.44E+06	1.27 Y	1.14	1.13	-1.1%	
PCB-154 22'44'56'-HxCB	33.57	8.24E+05	1.31 Y	1.34	1.29	-3.8%	
PCB-144 22'345'6'-HxCB	33.83	7.12E+05	1.24 Y	1.18	1.12	-5.7%	
PCB-147/149 ...-HxCB	34.13	1.47E+06	1.29 Y	1.18	1.15	-2.3%	
PCB-134 22'33'56-HxCB	34.31	5.72E+05	1.37 Y	0.92	0.90	-3.0%	
PCB-143 22'3456'-HxCB	34.39	7.05E+05	1.29 Y	1.13	1.10	-2.2%	
PCB-139/140 ...-HxCB	34.66	1.49E+06	1.23 Y	1.21	1.16	-3.5%	
PCB-131 22'33'46-HxCB	34.83	6.51E+05	1.25 Y	1.03	1.02	-0.6%	
PCB-142 22'3456-HxCB	34.98	5.89E+05	1.28 Y	0.99	0.92	-6.8%	
PCB-132 22'33'46'-HxCB	35.21	6.45E+05	1.26 Y	1.03	1.01	-2.0%	
PCB-133 22'33'55'-HxCB	35.61	7.07E+05	1.26 Y	1.13	1.11	-2.1%	
PCB-165 233'55'6-HxCB	35.95	8.89E+05	1.25 Y	1.41	1.39	-1.1%	
PCB-146 22'34'55'-HxCB	36.17	7.40E+05	1.25 Y	1.20	1.16	-3.5%	
PCB-161 233'45'6-HxCB	36.29	9.19E+05	1.24 Y	1.52	1.44	-5.3%	
PCB-153/168 ...-HxCB	36.72	1.81E+06	1.24 Y	1.46	1.42	-2.7%	
PCB-141 22'3455'-HxCB	36.86	6.67E+05	1.26 Y	1.09	1.05	-4.0%	
PCB-130 22'33'45'-HxCB	37.21	6.08E+05	1.33 Y	0.97	0.95	-2.0%	
PCB-137 22'344'5-HxCB	37.41	7.27E+05	1.30 Y	1.16	1.14	-2.1%	
PCB-164 233'4'5'6-HxCB	37.49	9.46E+05	1.33 Y	1.50	1.48	-1.0%	
PCB-163/138/129 ...-HxCB	37.78	2.21E+06	1.21 Y	1.19	1.15	-3.2%	
PCB-160 233'456-HxCB	37.92	9.44E+05	1.29 Y	1.52	1.48	-2.3%	
PCB-158 233'44'6-HxCB	38.10	1.05E+06	1.33 Y	1.66	1.64	-1.2%	
PCB-128/166 ...-HxCB	38.84	1.64E+06	1.18 Y	0.90	0.86	-4.3%	
PCB-159 233'455'-HxCB	39.65	1.05E+06	1.27 Y	1.11	1.11	-0.8%	
PCB-162 233'4'55'-HxCB	39.89	9.62E+05	1.13 Y	1.07	1.01	-5.6%	
PCB-188 22'34'566'-HpCB	35.57	7.09E+05	1.05 Y	1.27	1.32	3.9%	
PCB-179 22'33'566'-HpCB	35.85	6.25E+05	1.09 Y	1.16	1.16	0.1%	
PCB-184 22'344'66'-HpCB	36.32	5.87E+05	1.02 Y	1.13	1.09	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:54			
Lab ID:	CS1_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 16:14						
Datafile:	131220X03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.61	6.55E+05	1.14 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.01	5.96E+05	1.00 Y	1.13	1.11	-1.5%	
PCB-178 22'33'55'6'-HpCB	38.14	4.31E+05	1.08 Y	0.84	0.80	-4.9%	
PCB-175 22'33'45'6'-HpCB	38.69	6.43E+05	1.04 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.91	6.87E+05	1.08 Y	1.14	1.12	-1.7%	
PCB-182 22'344'56'-HpCB	39.09	6.98E+05	1.03 Y	1.18	1.14	-3.2%	
PCB-183 22'344'5'6'-HpCB	39.44	7.24E+05	1.15 Y	1.20	1.18	-2.1%	
PCB-185 22'3455'6'-HpCB	39.52	6.34E+05	1.02 Y	1.06	1.03	-2.6%	
PCB-174 22'33'456'-HpCB	39.63	6.37E+05	1.07 Y	0.99	1.04	4.9%	
PCB-177 22'33'45'6'-HpCB	40.01	5.78E+05	1.13 Y	0.95	0.94	-1.0%	
PCB-181 22'344'56'-HpCB	40.36	6.58E+05	1.09 Y	1.09	1.07	-1.4%	
PCB-171/173 ...-HpCB	40.54	1.11E+06	1.08 Y	0.95	0.90	-4.7%	
PCB-172 22'33'455'-HpCB	41.89	5.95E+05	1.09 Y	0.99	0.97	-2.0%	
PCB-192 233'455'6'-HpCB	42.14	7.80E+05	1.06 Y	1.29	1.27	-1.3%	
PCB-180/193 ...-HpCB	42.42	1.50E+06	0.95 Y	1.26	1.22	-3.0%	
PCB-191 233'44'5'6'-HpCB	42.75	8.57E+05	1.12 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.52	5.51E+05	0.98 Y	1.14	1.06	-6.8%	
PCB-190 233'44'56'-HpCB	43.98	8.22E+05	1.07 Y	1.66	1.58	-5.0%	
PCB-202 22'33'55'66'-OcCB	40.11	5.78E+05	0.95 Y	1.05	1.05	-0.5%	
PCB-201 22'33'45'66'-OcCB	40.90	6.75E+05	0.92 Y	1.22	1.22	0.1%	
PCB-204 22'344'566'-OcCB	41.48	6.21E+05	0.94 Y	1.12	1.13	0.8%	
PCB-197 22'33'44'66'-OcCB	41.67	6.41E+05	0.90 Y	1.19	1.16	-2.4%	
PCB-200 22'33'4566'-OcCB	41.76	5.73E+05	0.90 Y	1.11	1.04	-6.2%	
PCB-198/199 ...-OcCB	44.09	8.75E+05	0.91 Y	0.81	0.79	-2.0%	
PCB-196 22'33'44'56'-OcCB	44.67	4.40E+05	0.99 Y	0.83	0.80	-4.4%	
PCB-203 22'344'55'6'-OcCB	44.84	4.68E+05	0.92 Y	0.87	0.85	-3.0%	
PCB-195 22'33'44'56'-OcCB	45.96	5.10E+05	0.94 Y	0.77	0.74	-3.4%	
PCB-194 22'33'44'55'-OcCB	47.91	5.61E+05	0.90 Y	0.84	0.82	-3.3%	
PCB-205 233'44'55'6'-OcCB	48.31	7.06E+05	0.90 Y	1.06	1.03	-3.2%	
PCB-208 22'33'455'66'-NoCB	45.75	7.23E+05	0.82 Y	1.12	1.11	-0.7%	
PCB-207 22'33'44'566'-NoCB	46.54	7.50E+05	0.80 Y	1.19	1.16	-2.9%	
PCB-206 22'33'44'55'6'-NoCB	49.78	5.11E+05	0.79 Y	1.11	1.11	0.0%	

SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

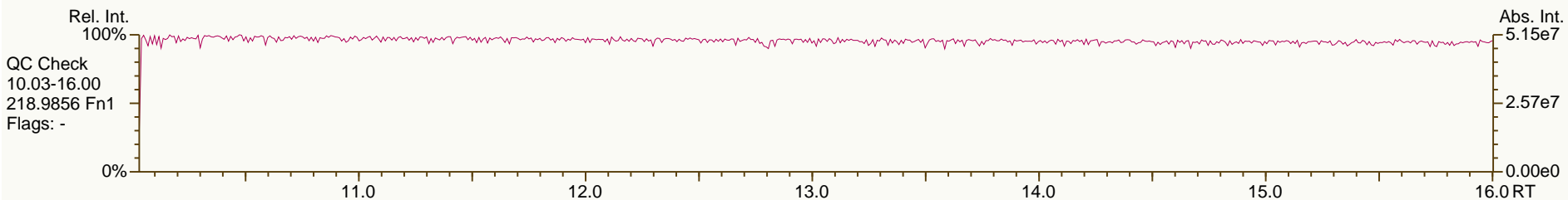
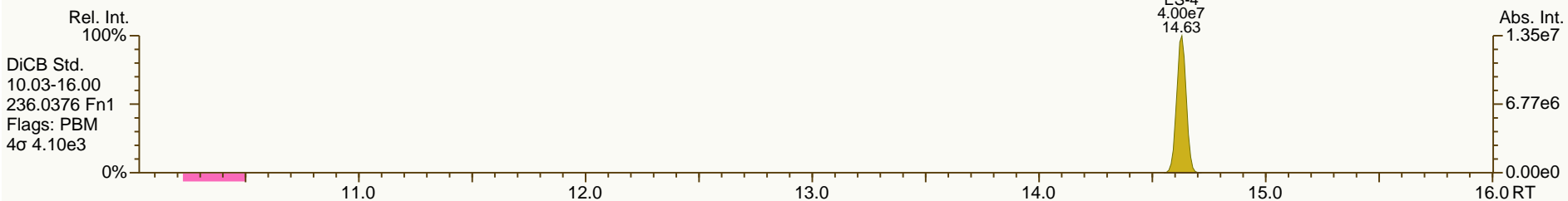
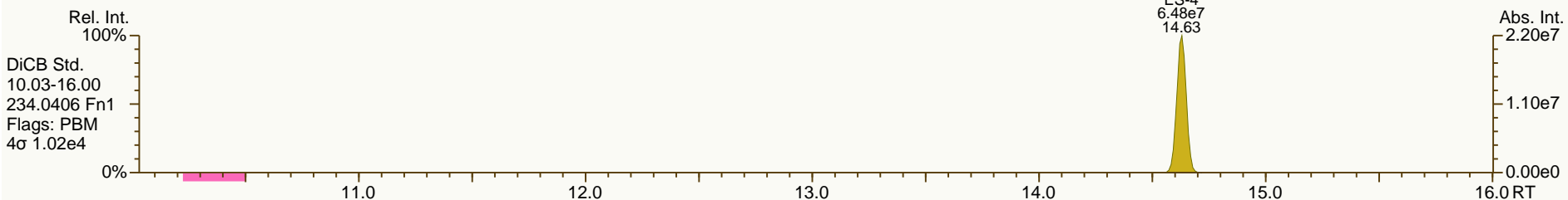
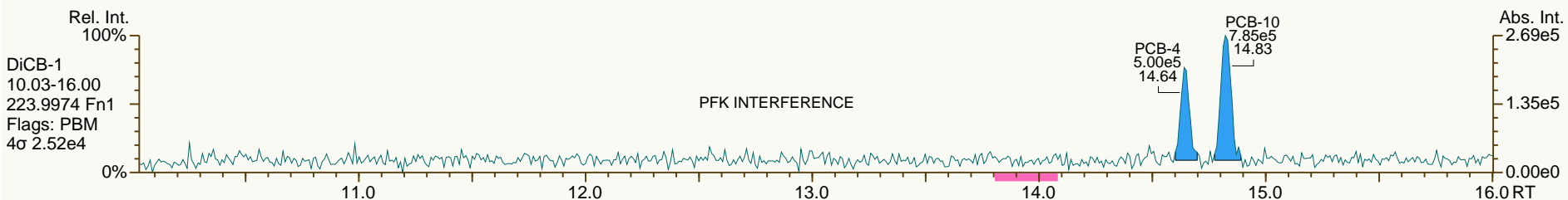
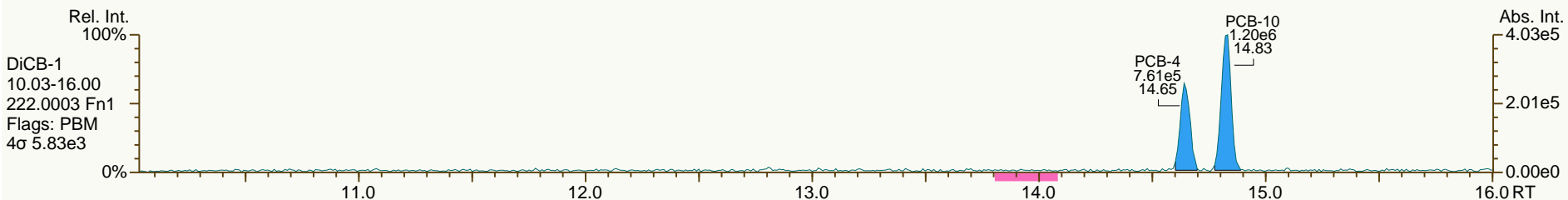
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

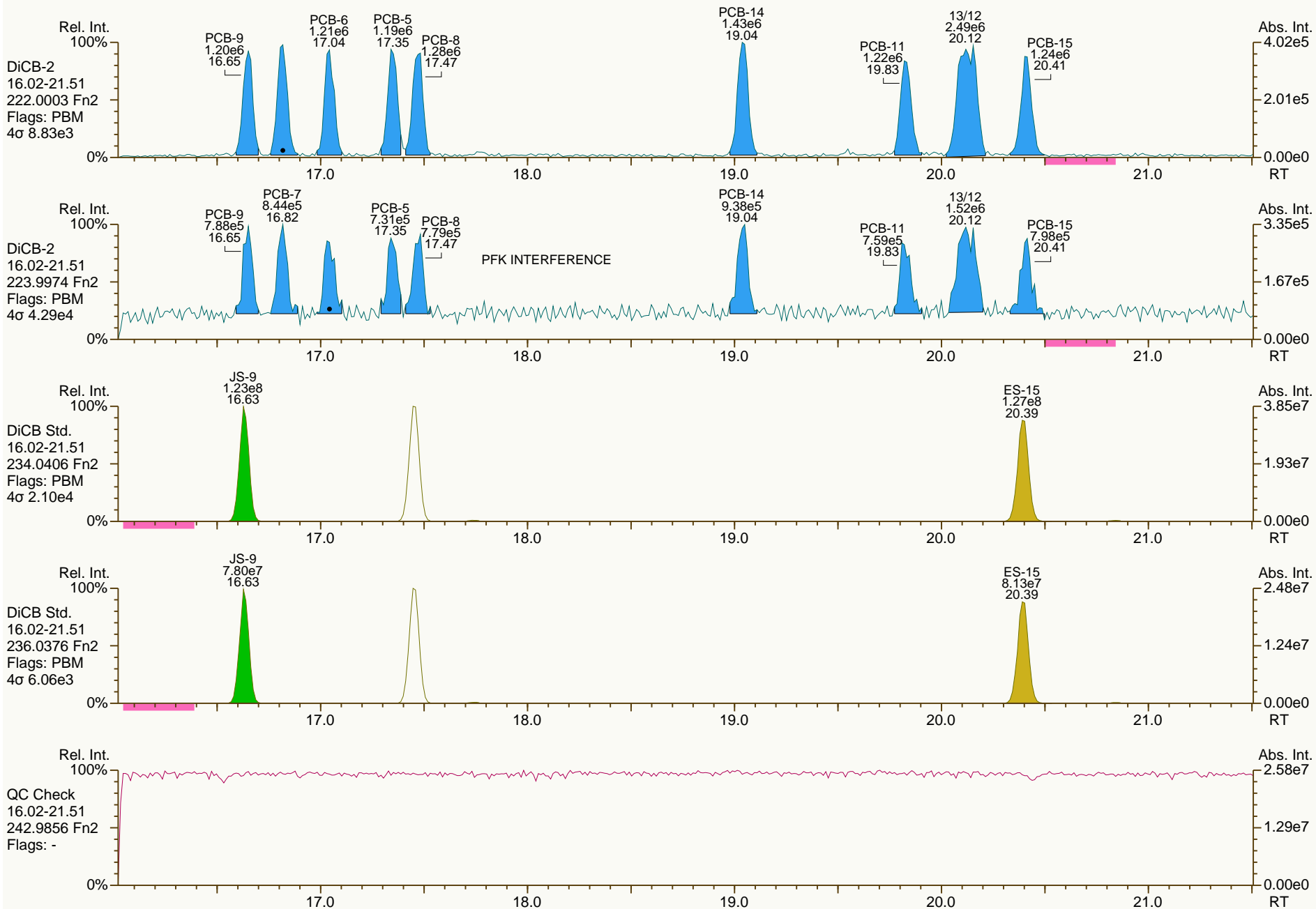
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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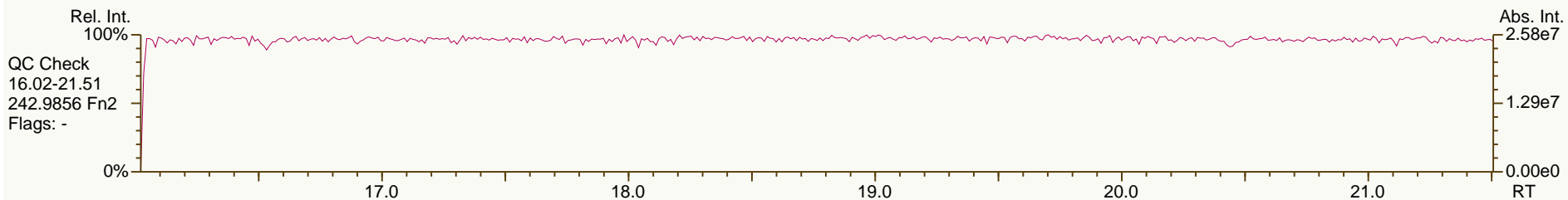
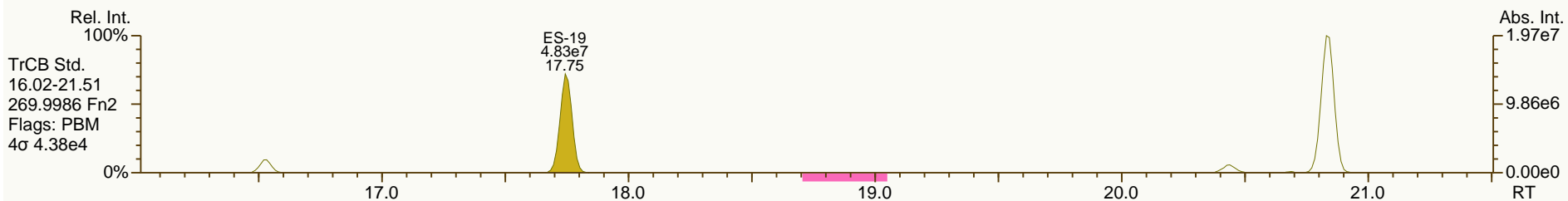
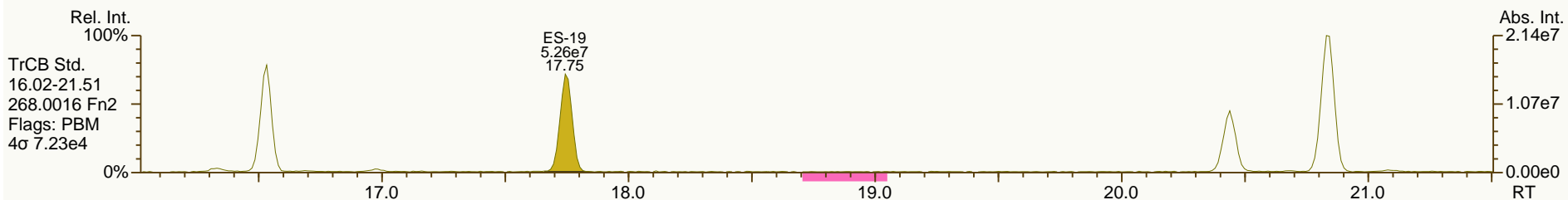
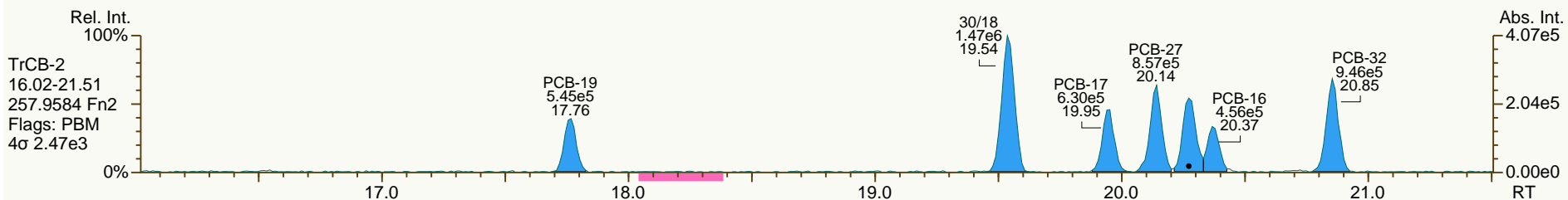
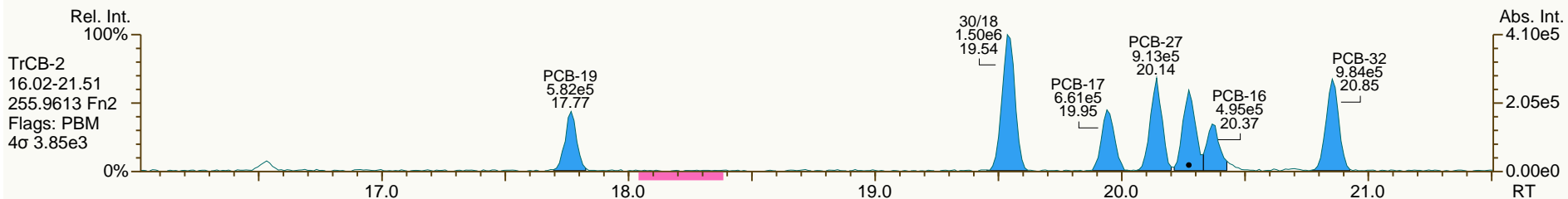
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SGS-AP ID: CS1\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-5  
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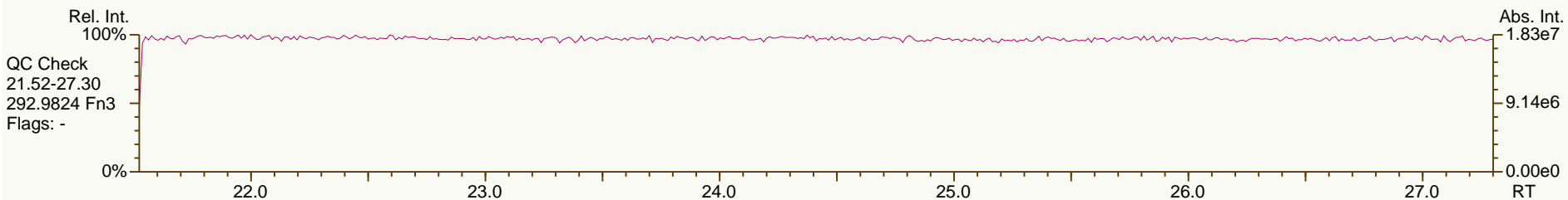
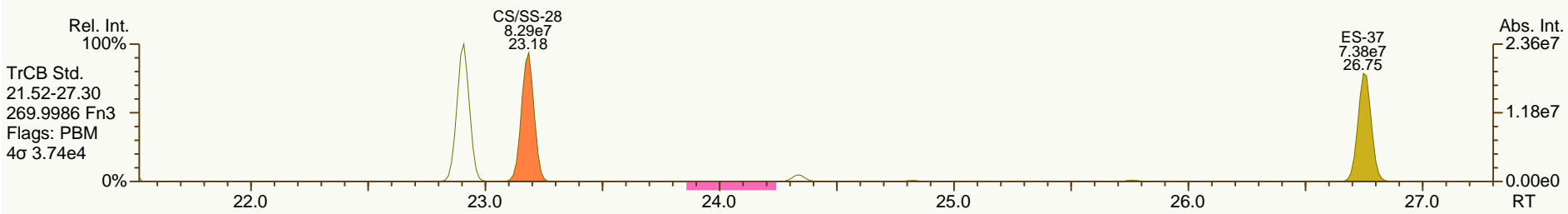
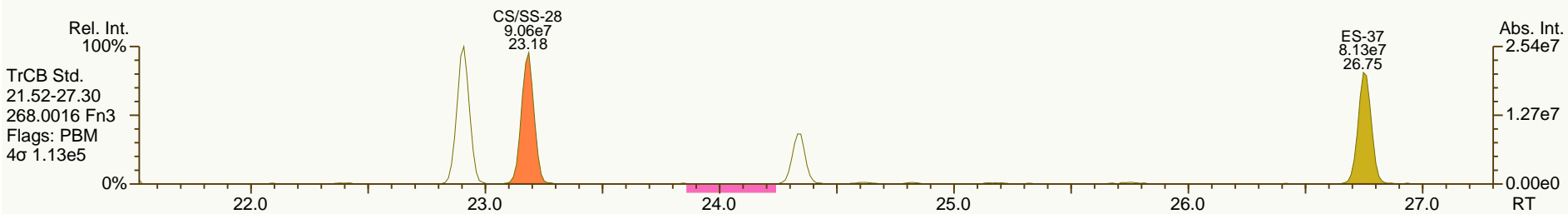
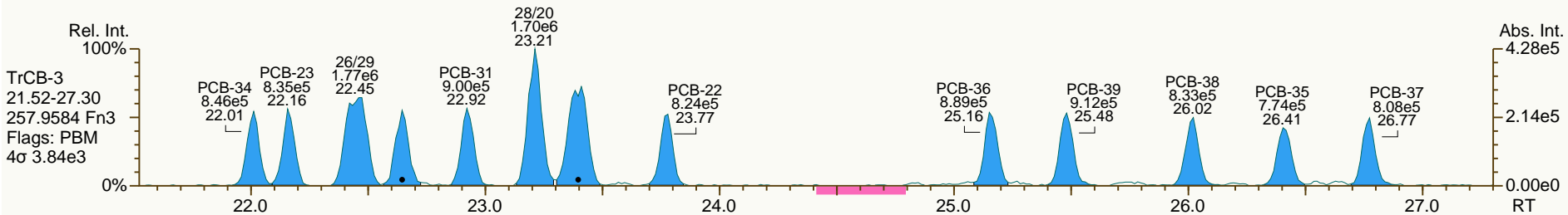
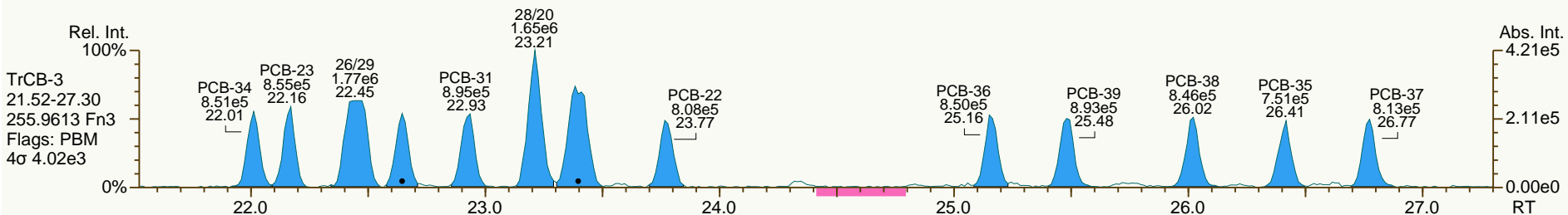




SGS-AP ID: CS1\_131220\_PCB\_XA  
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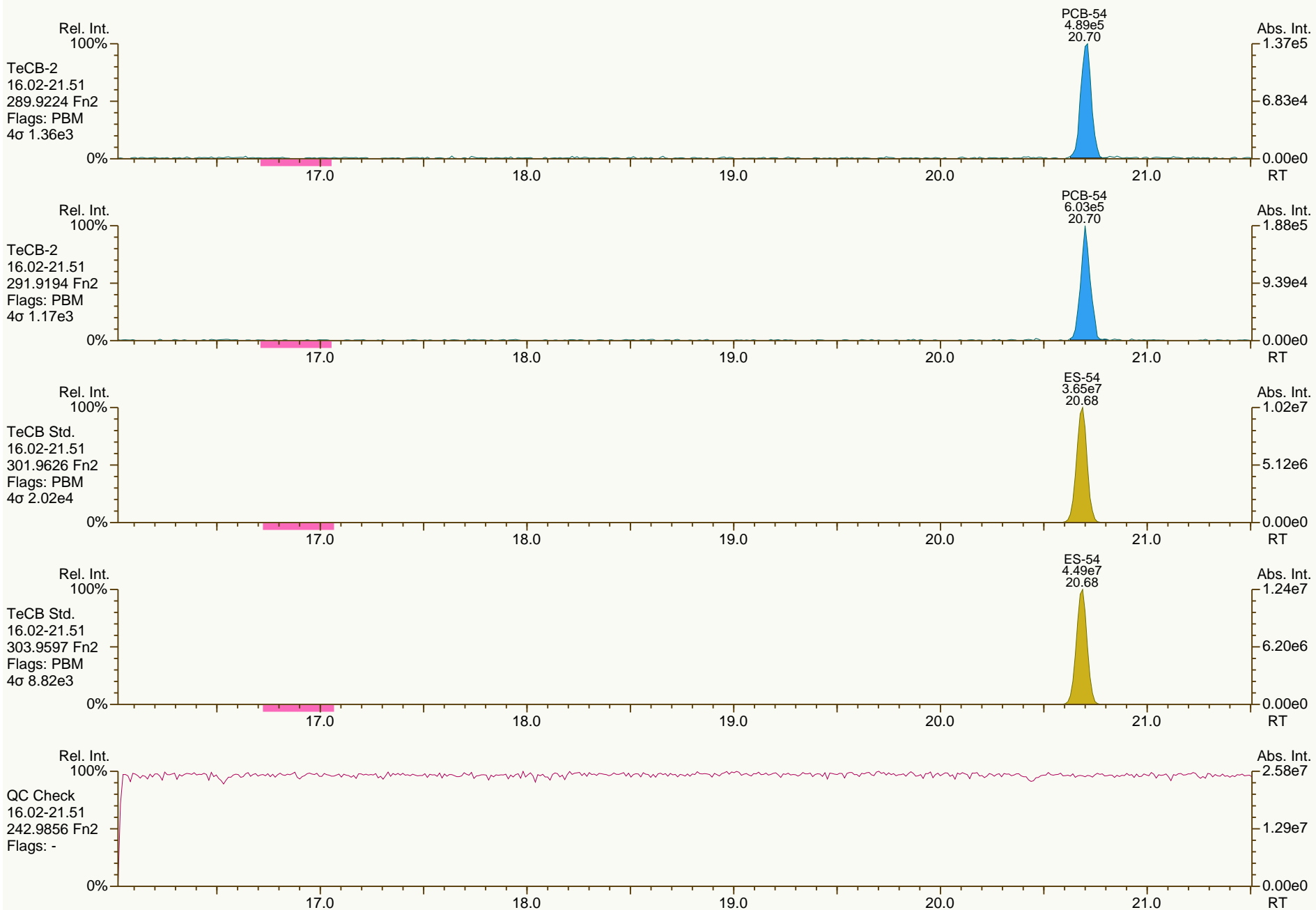
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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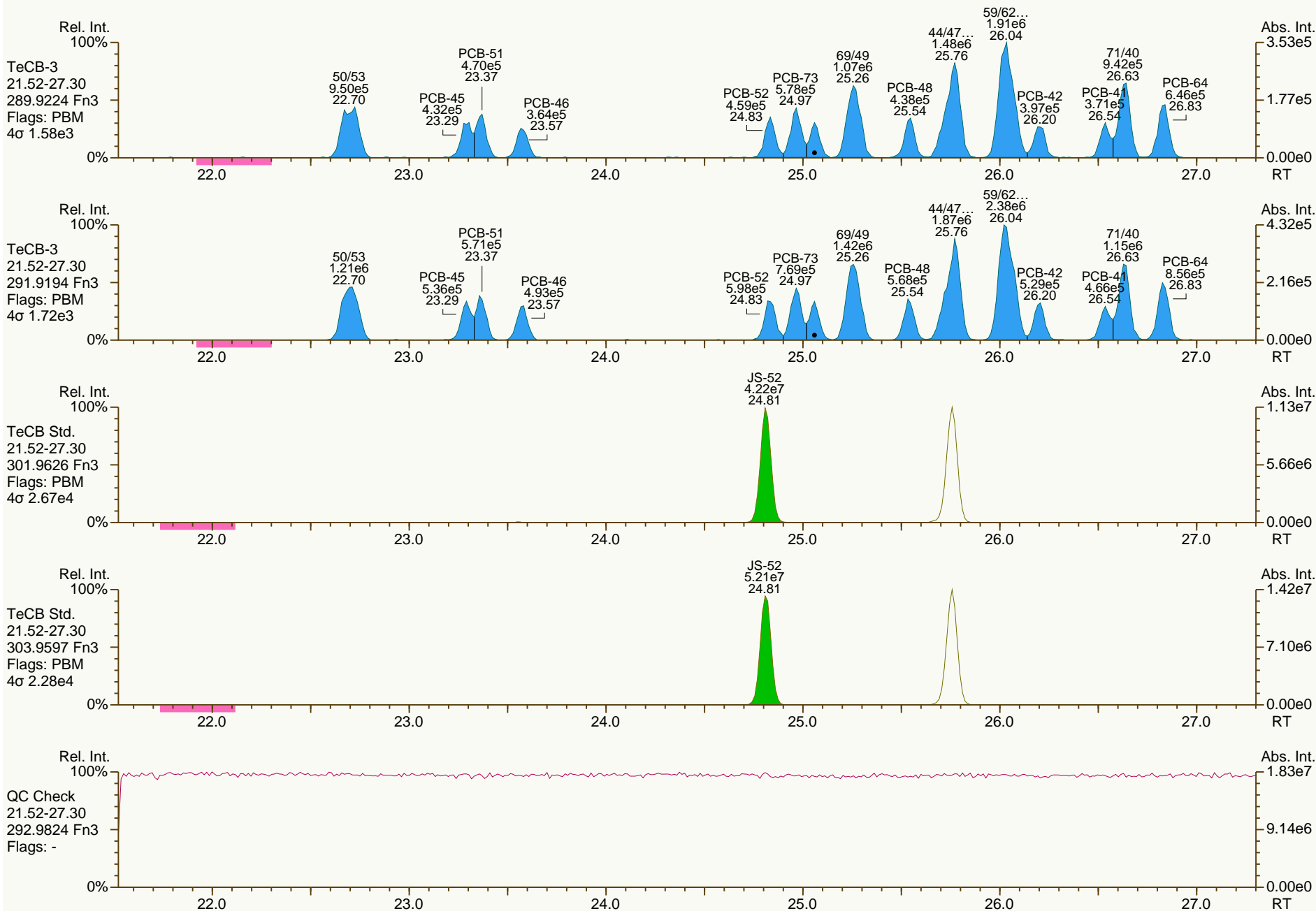
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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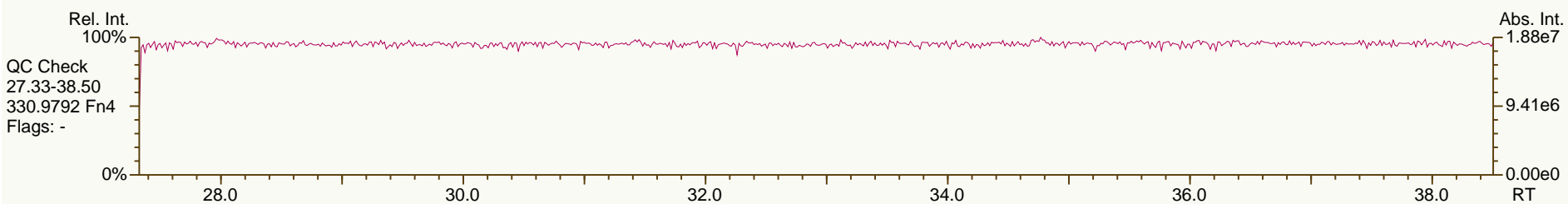
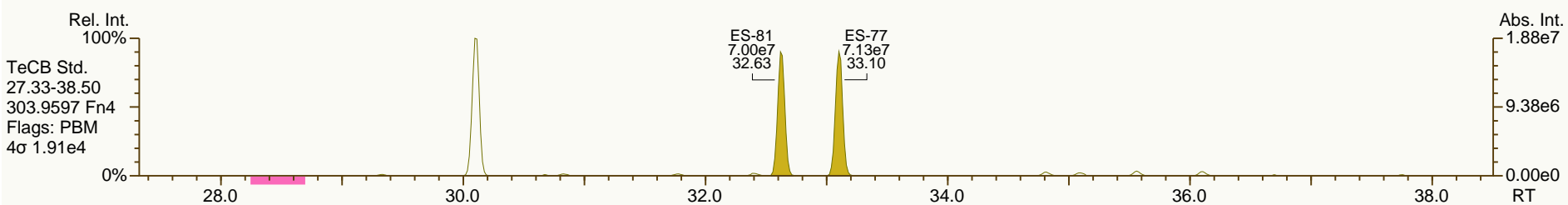
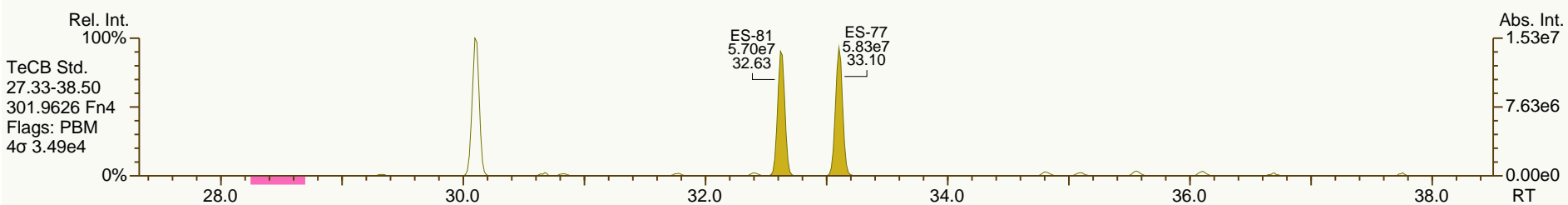
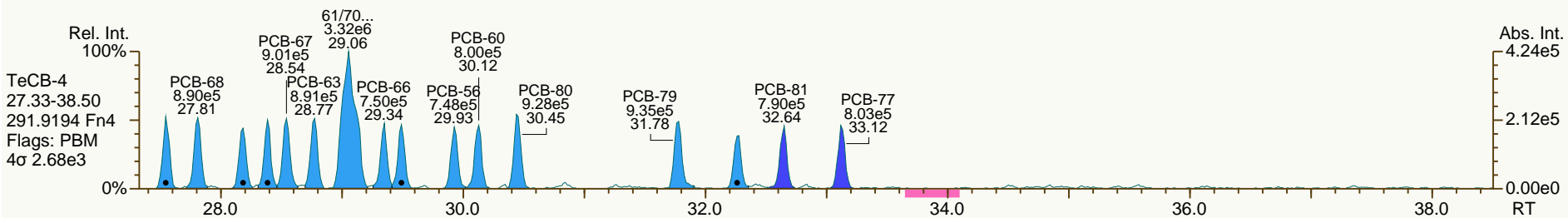
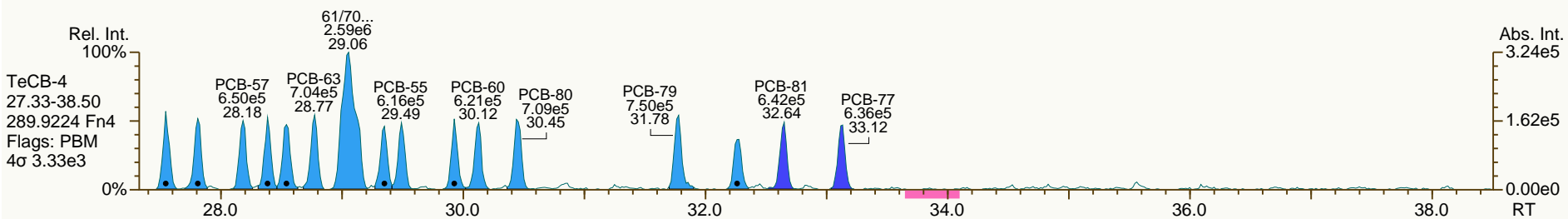
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
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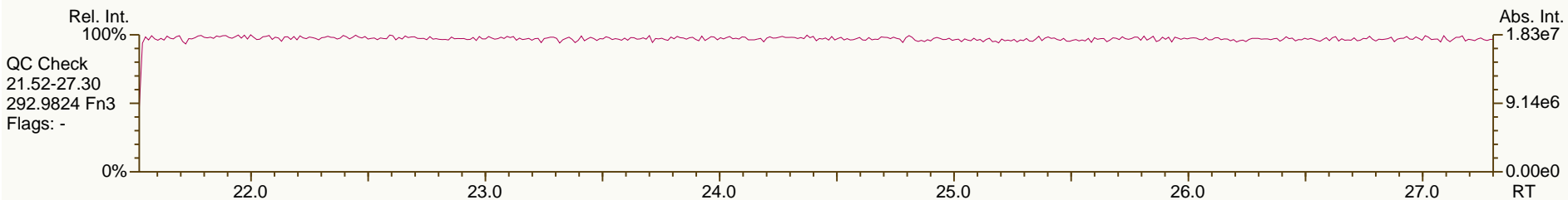
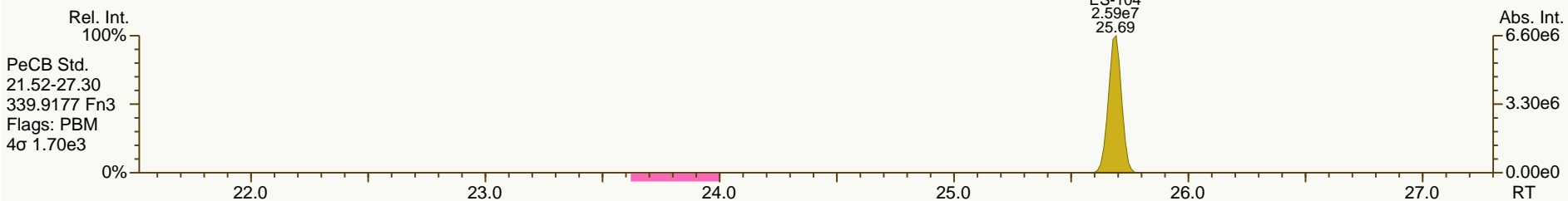
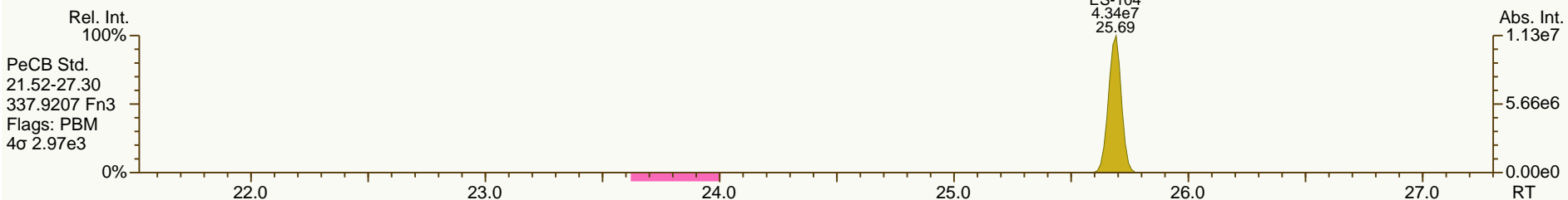
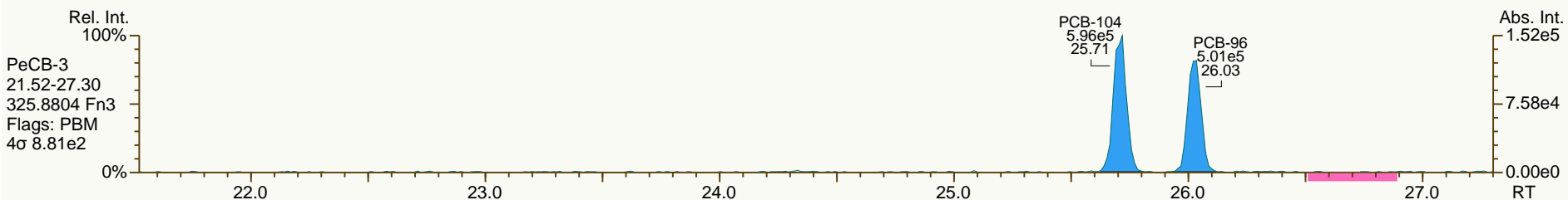
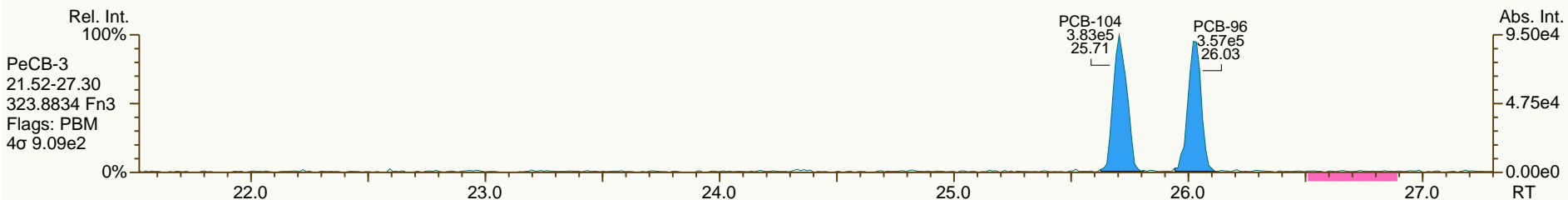
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

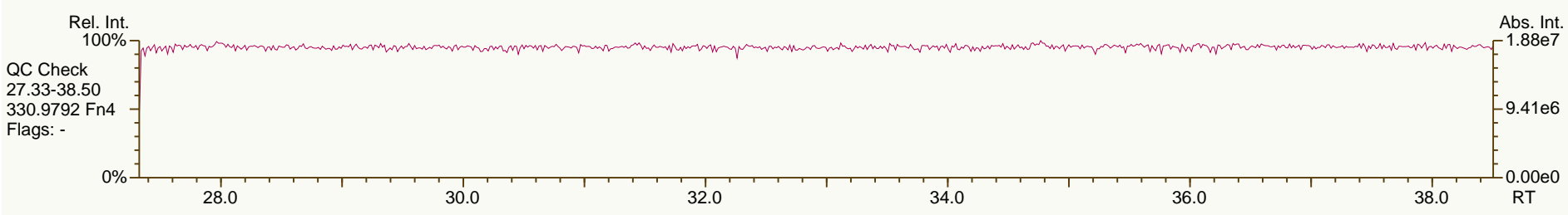
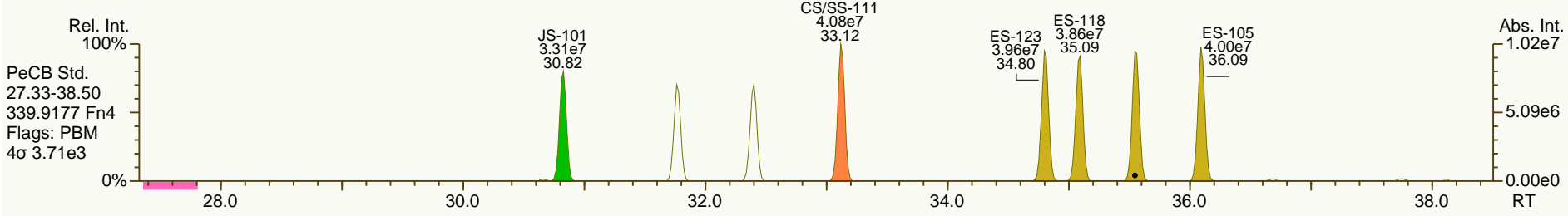
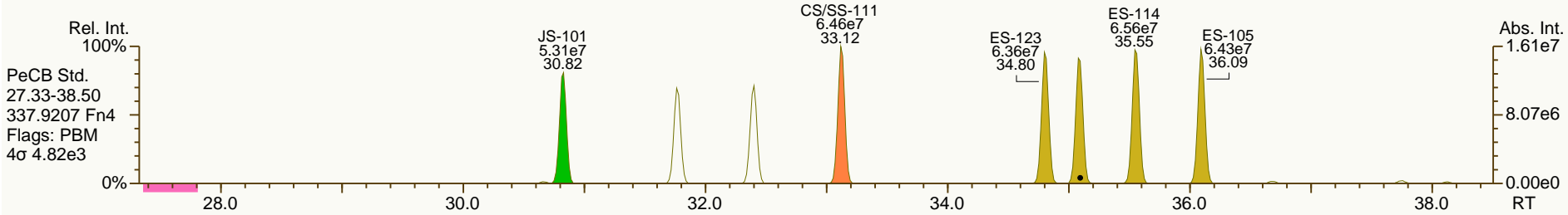
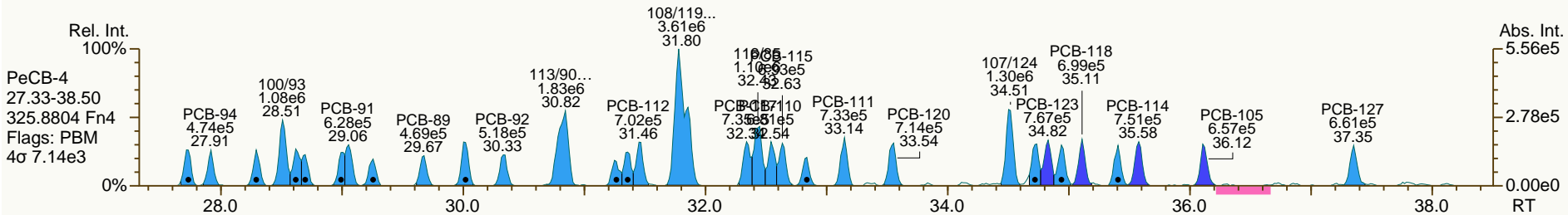
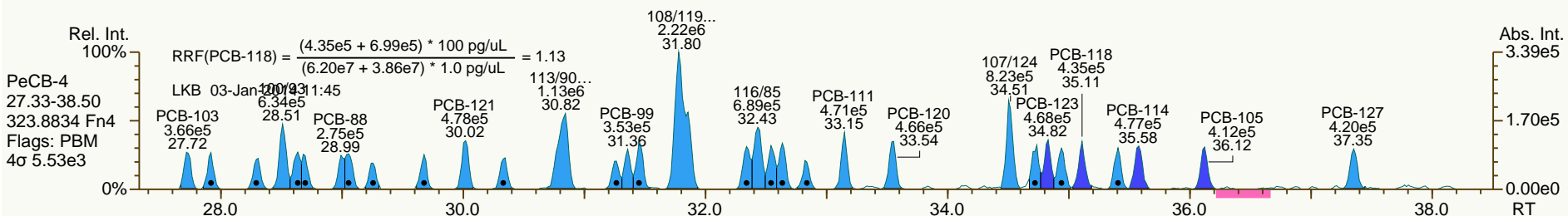
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SGS-AP ID: CS1\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

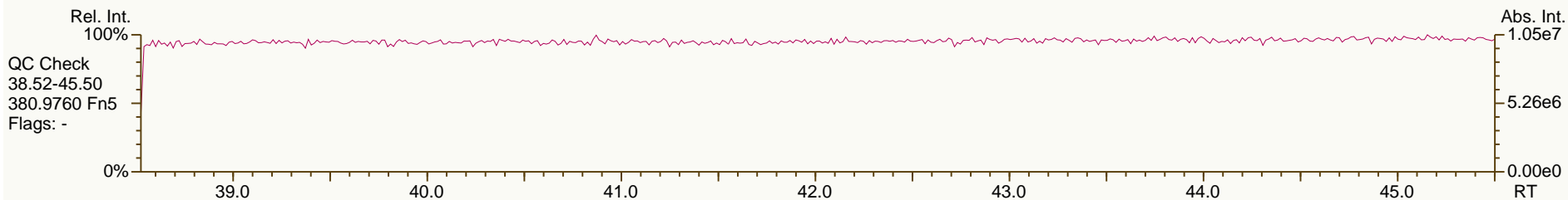
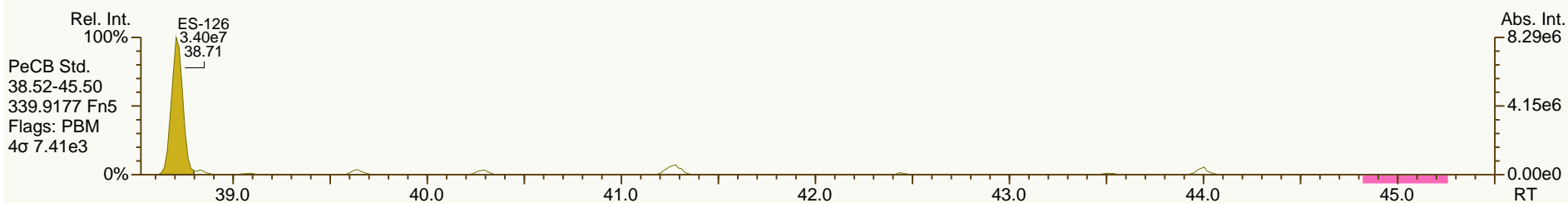
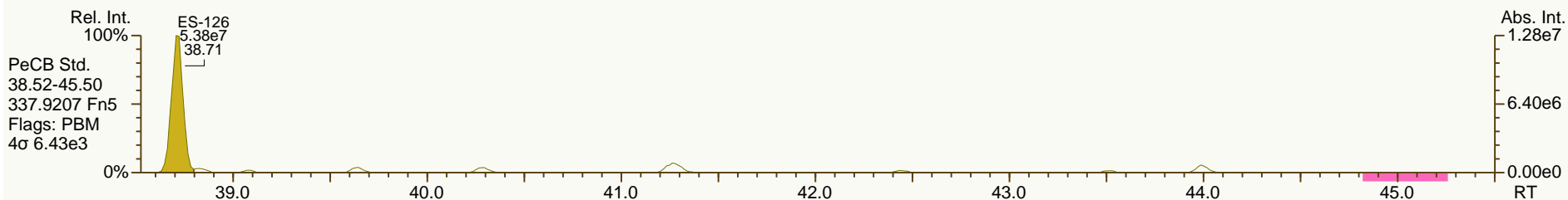
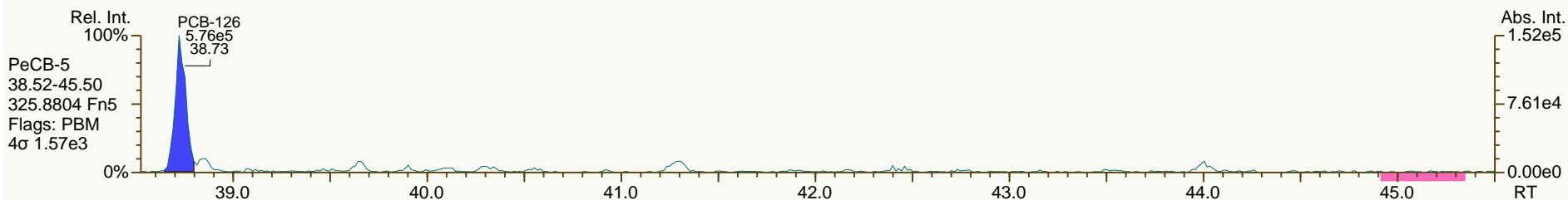
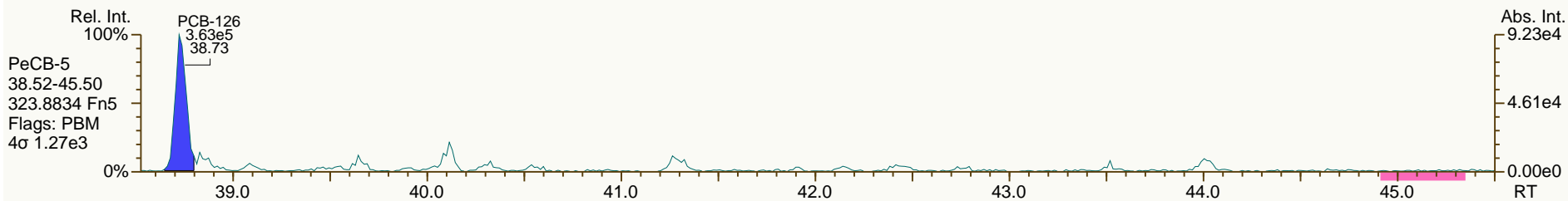
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SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

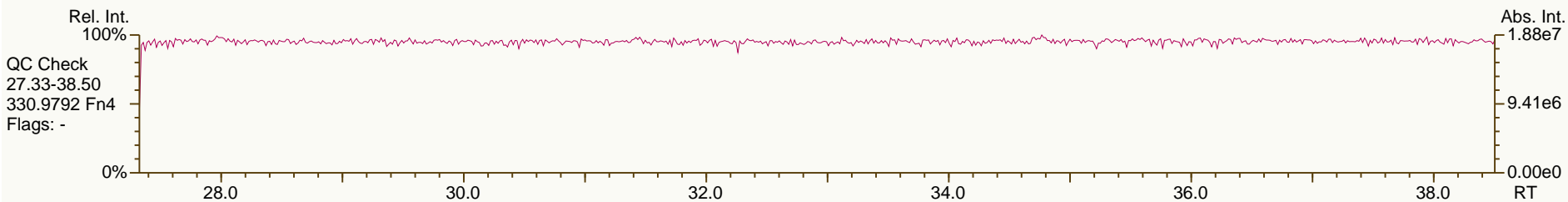
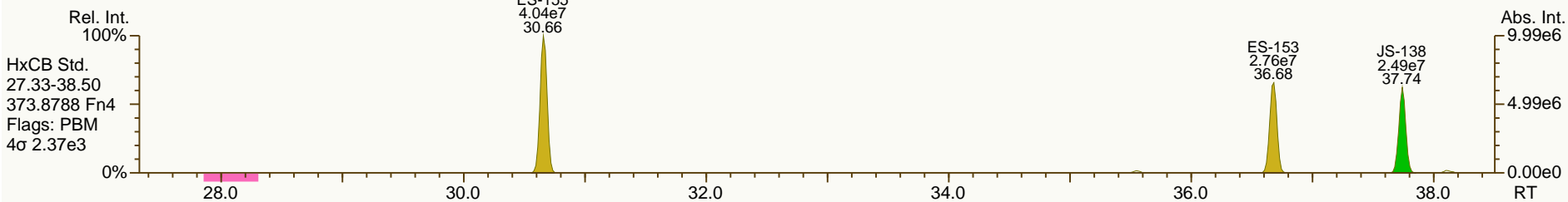
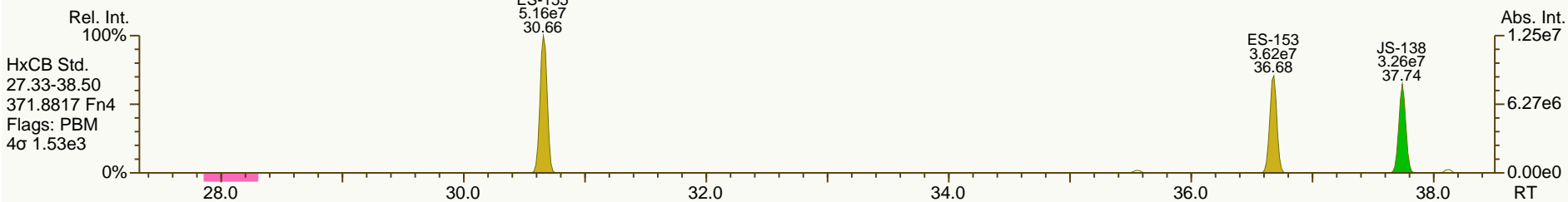
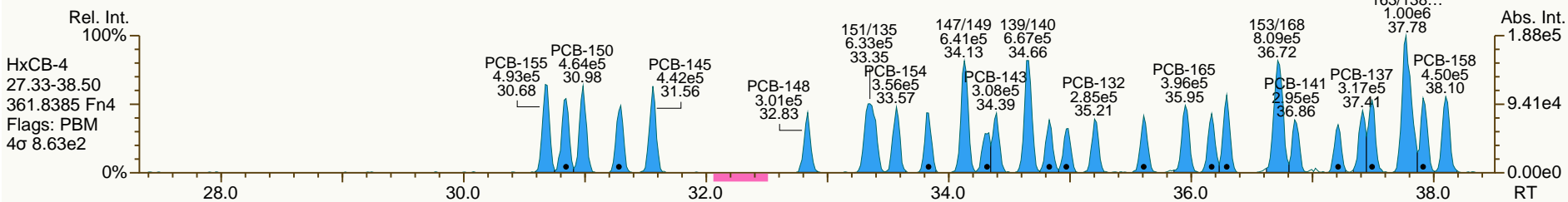
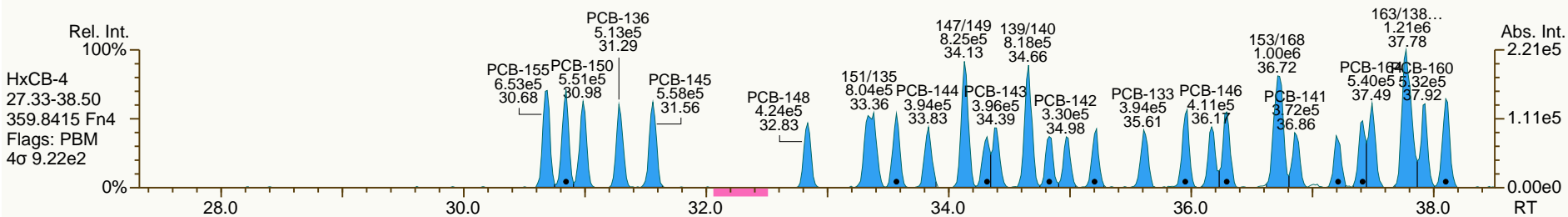
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SGS-AP ID: CS1\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-5  
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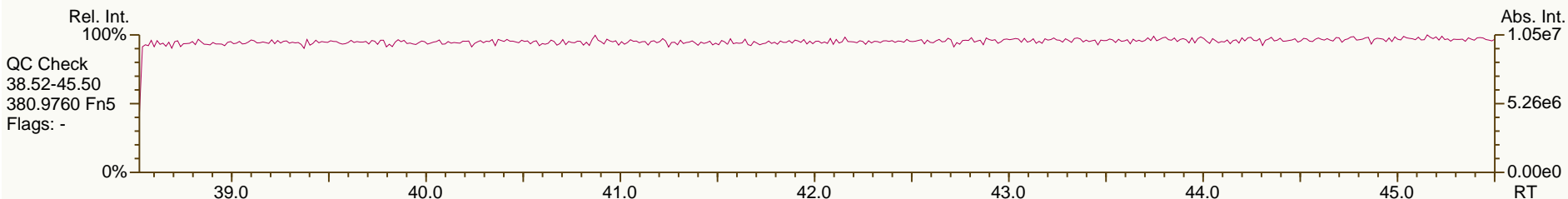
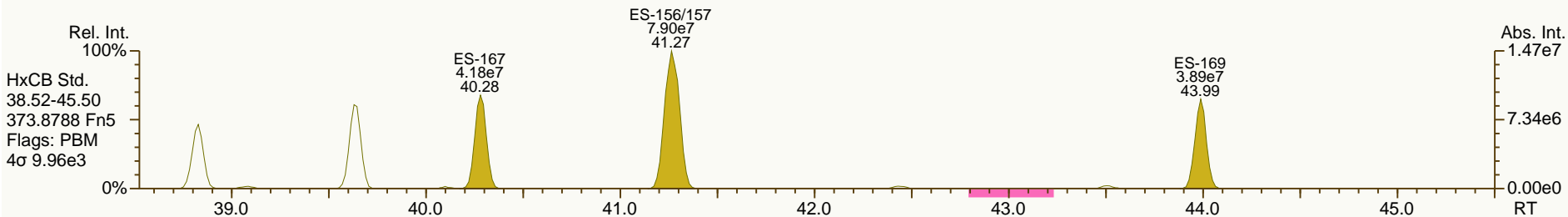
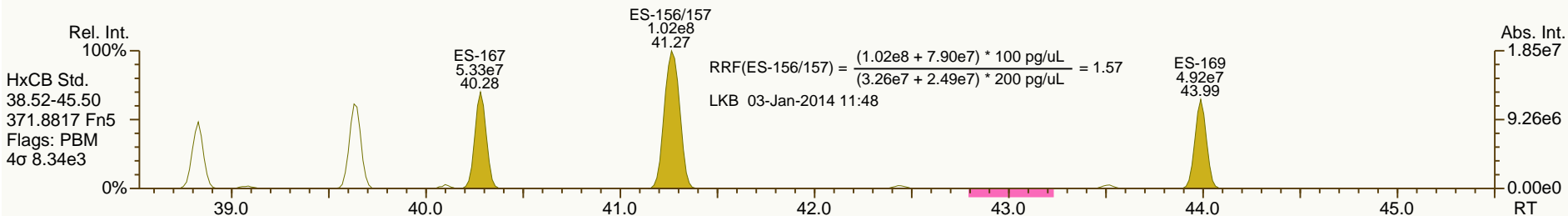
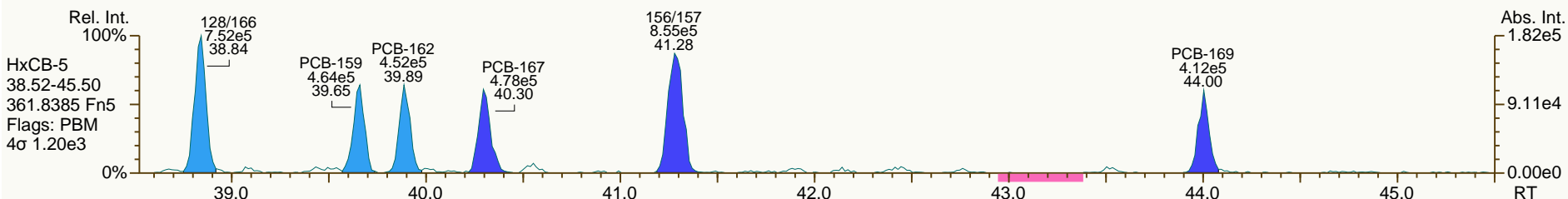
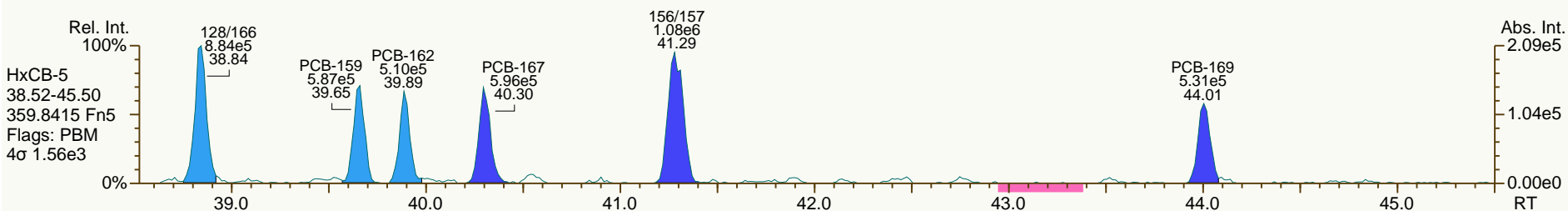




SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

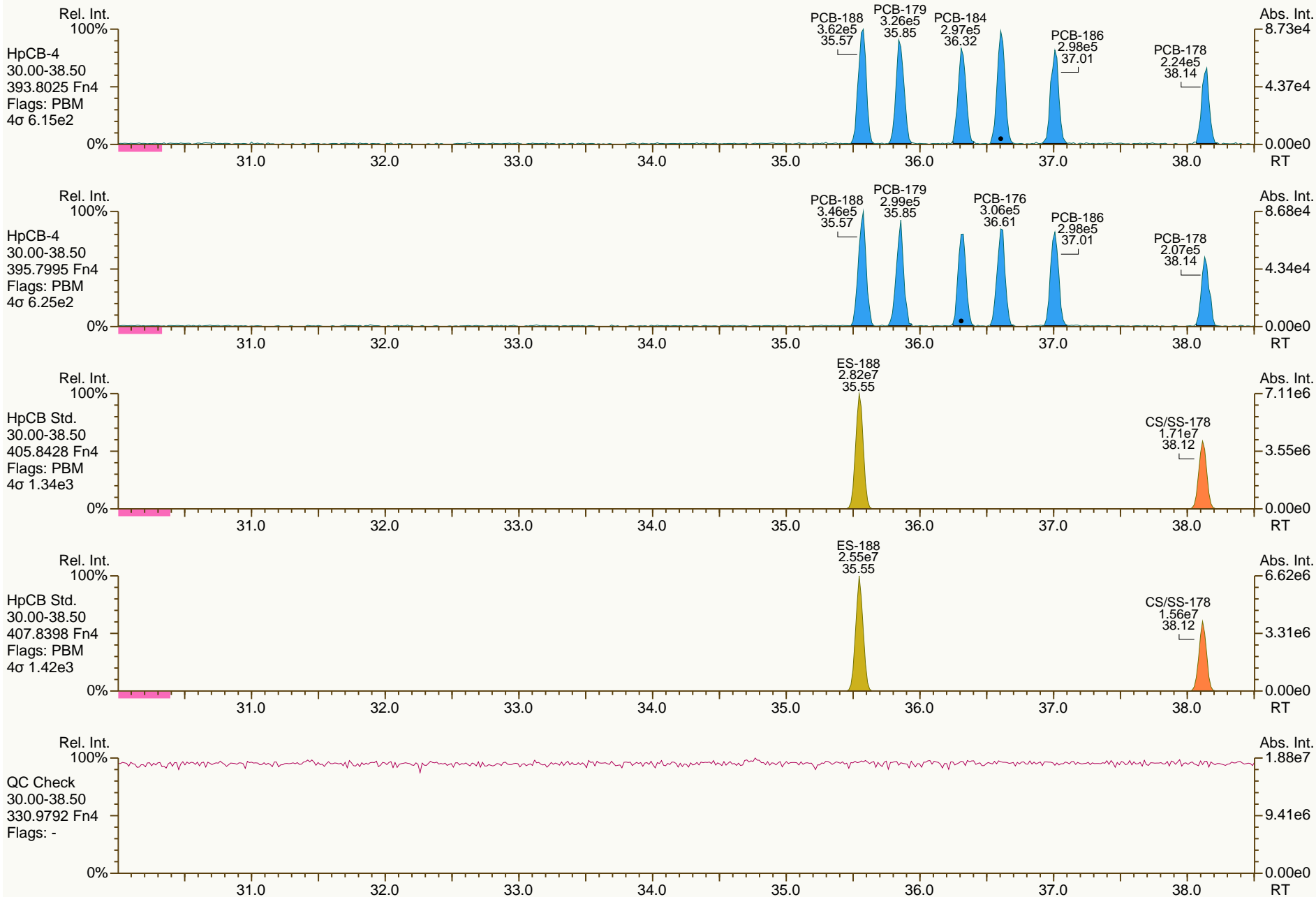
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 User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

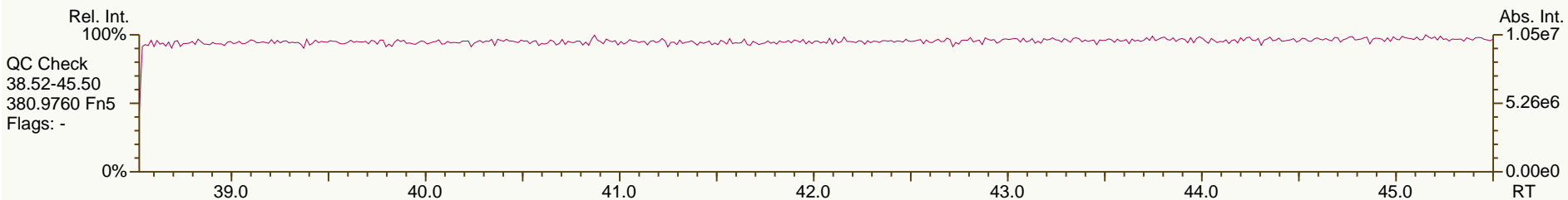
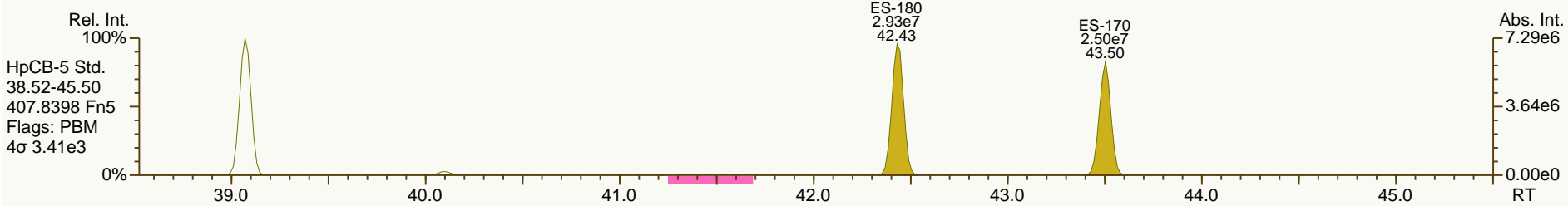
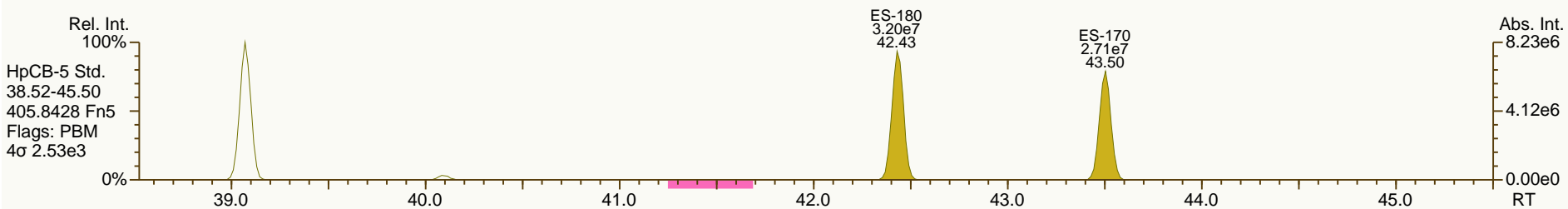
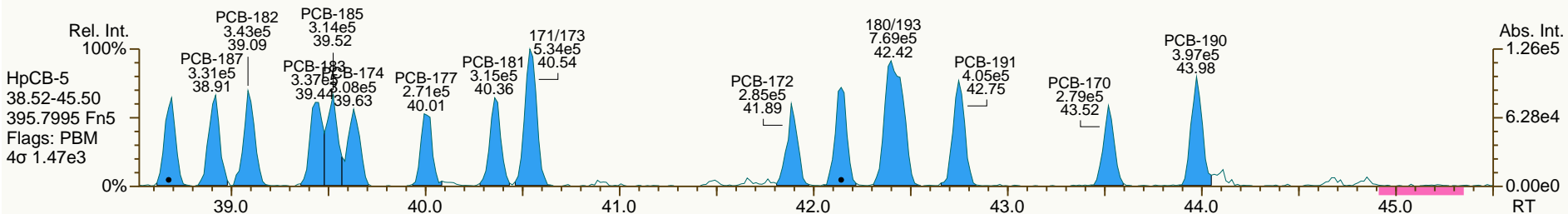
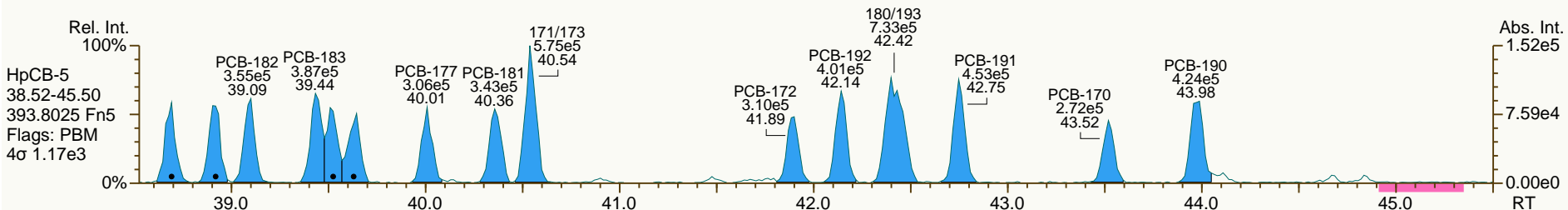
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SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

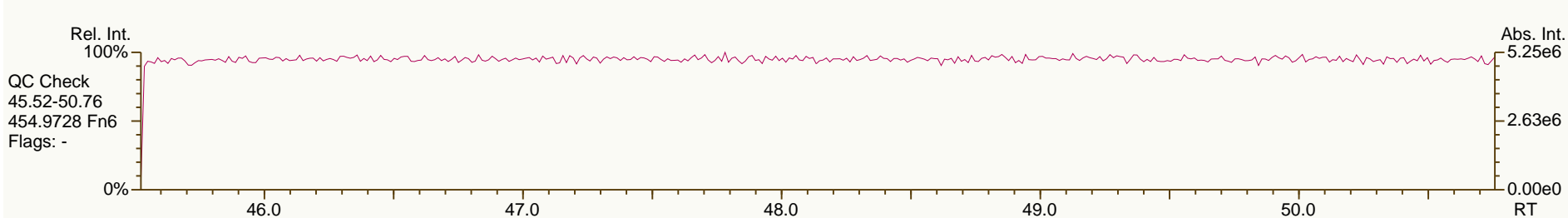
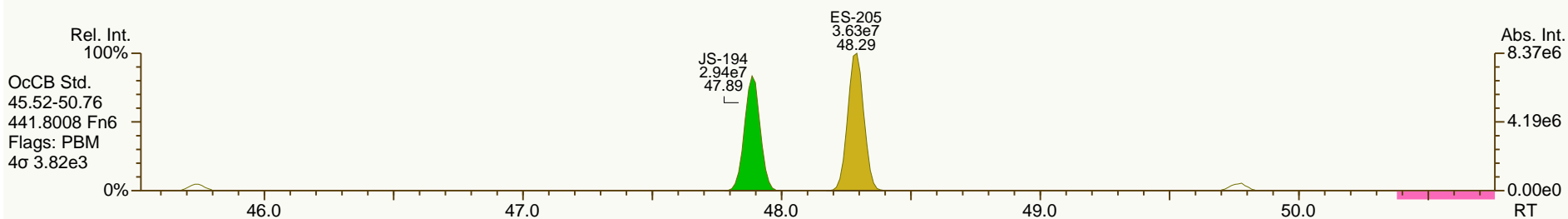
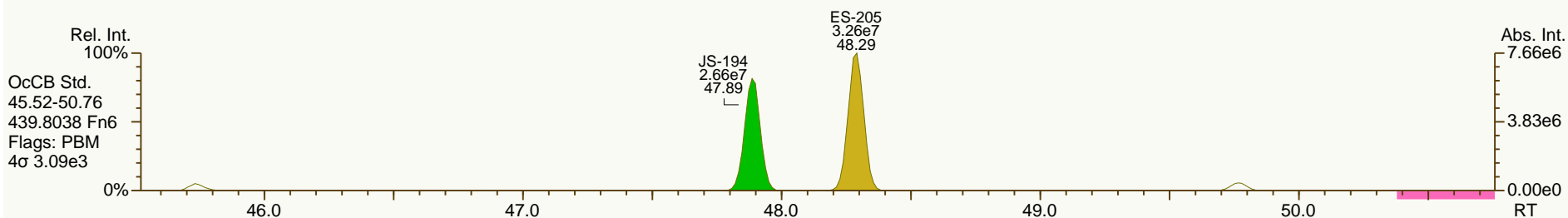
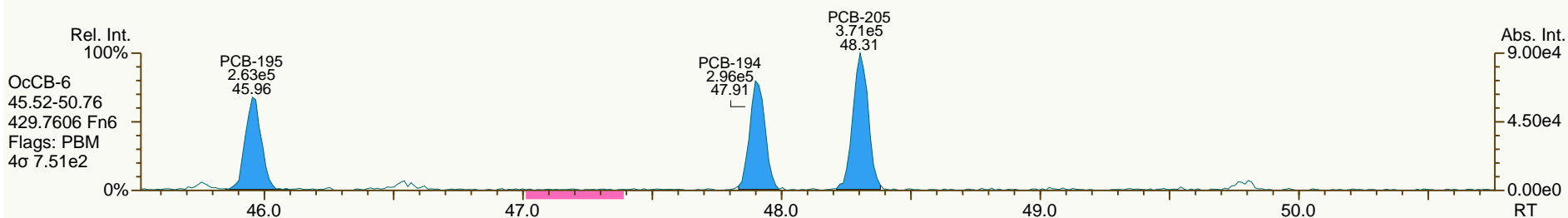
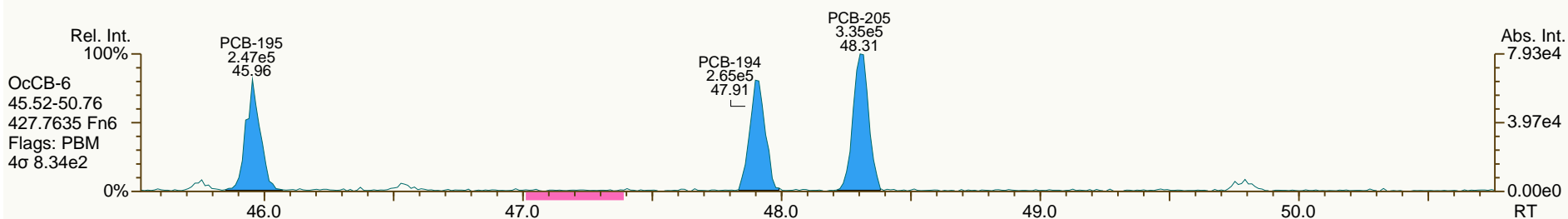
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 User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

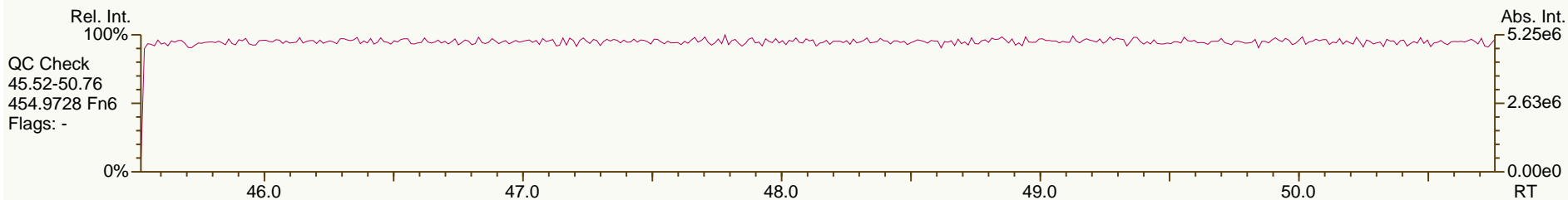
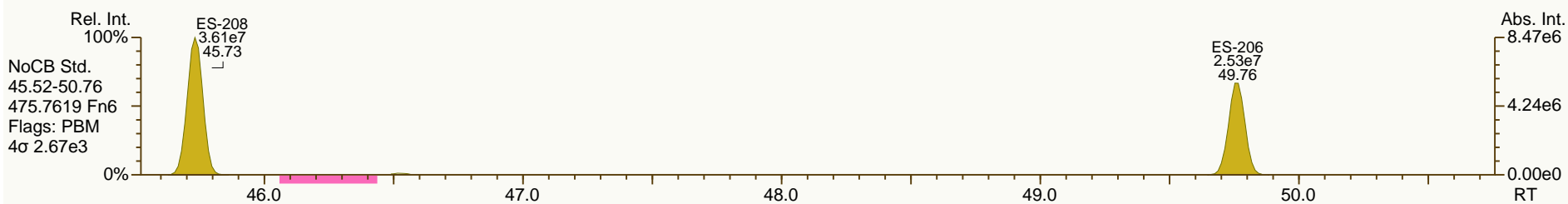
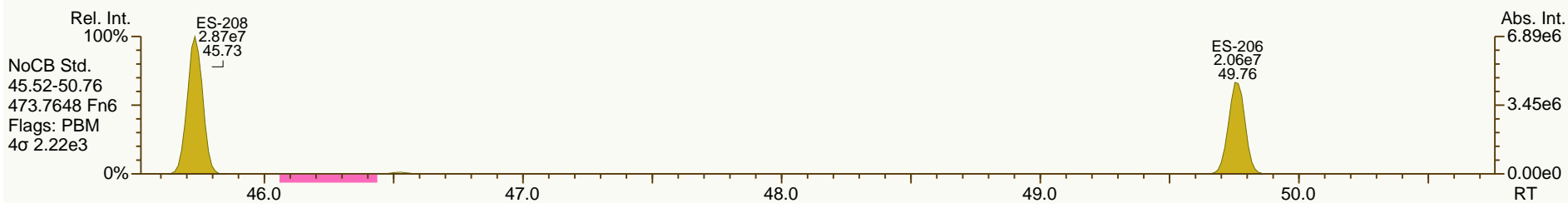
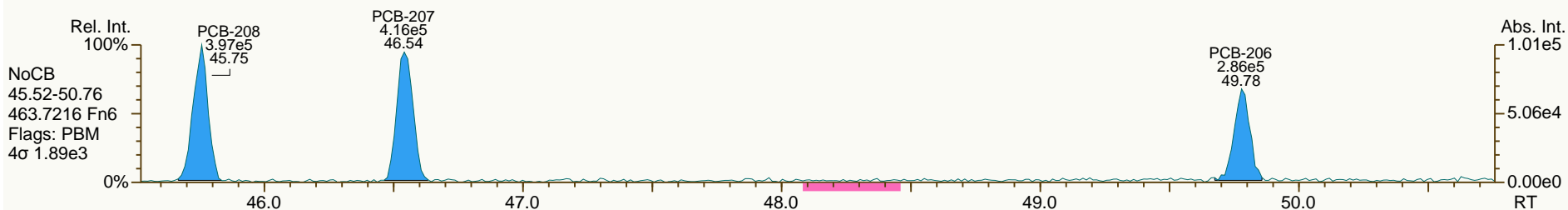
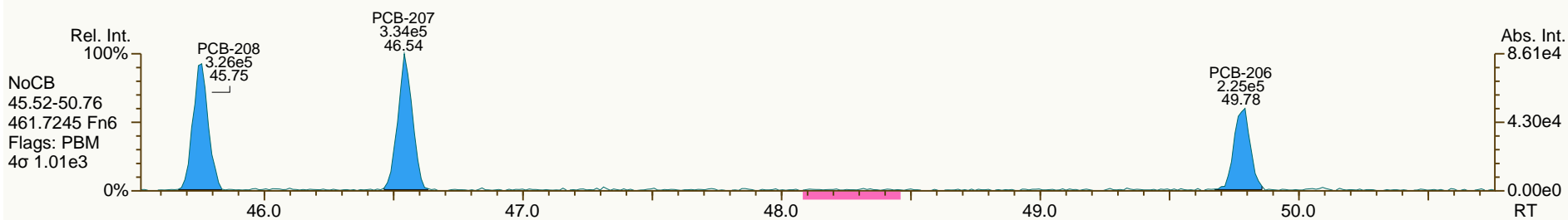
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User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

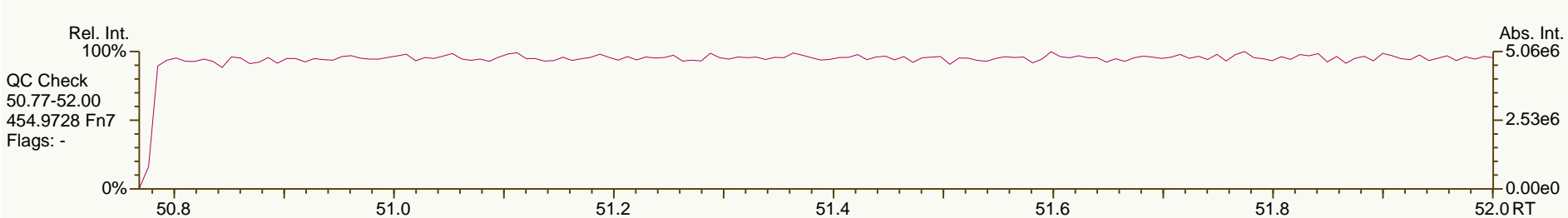
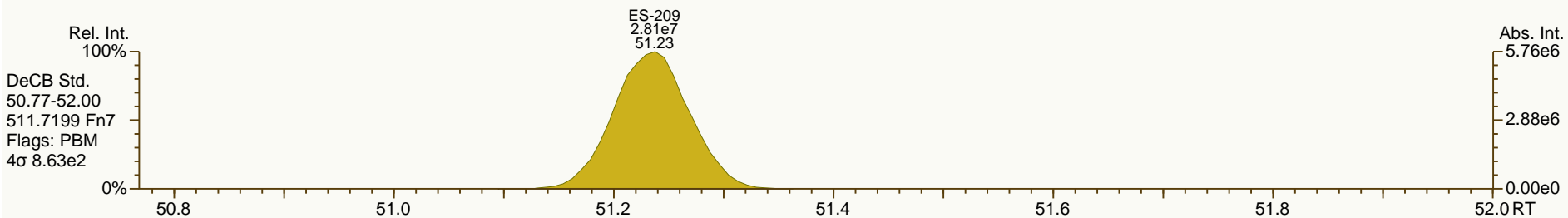
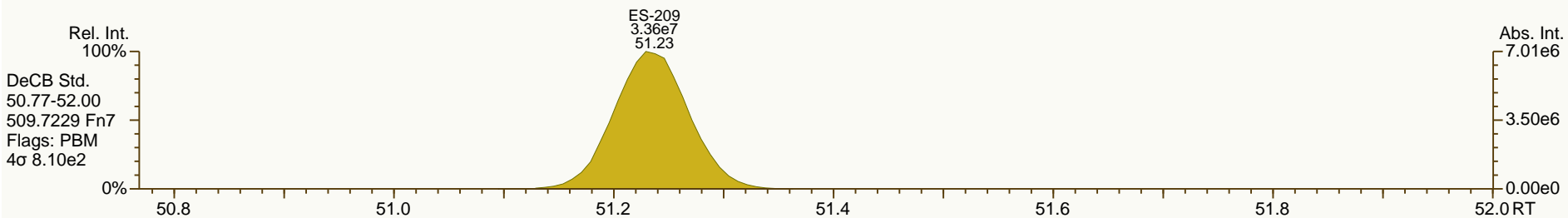
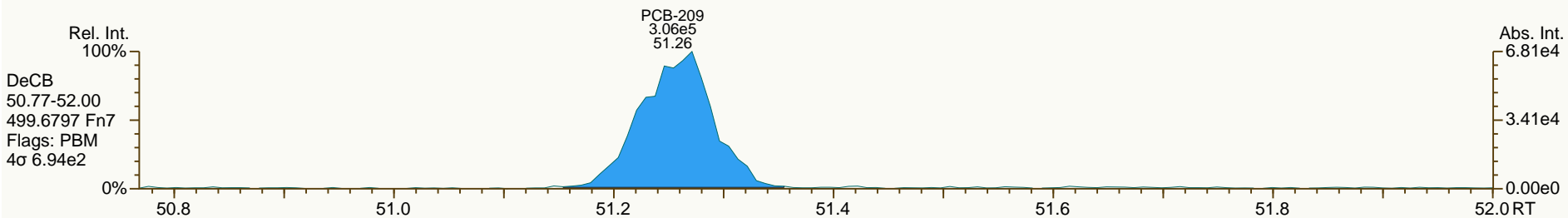
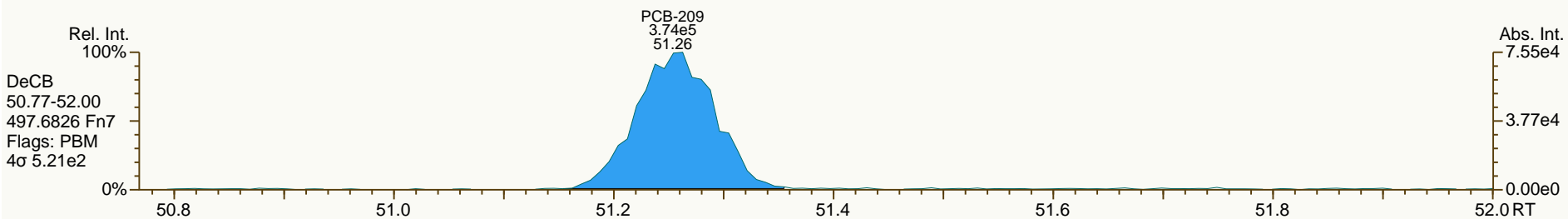
Acq: 20-Dec-2013 16:14:56  
User: LKB Datafile: 131220X03



SGS-AP ID: CS1\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-5  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 38

Acq: 20-Dec-2013 16:14:56  
 User: LKB Datafile: 131220X03





PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	7.18E+06	0.79 Y	1.15	1.09	-5.2%	
PCB-81 344'5'-TeCB	32.63	6.81E+06	0.77 Y	1.12	1.08	-3.8%	
PCB-105 233'44'-PeCB	36.11	5.68E+06	0.64 Y	1.11	1.07	-4.0%	
PCB-114 2344'5'-PeCB	35.56	6.19E+06	0.62 Y	1.20	1.15	-4.1%	
PCB-118 23'44'5'-PeCB	35.10	5.72E+06	0.60 Y	1.19	1.13	-5.1%	
PCB-123 23'44'5'-PeCB	34.82	5.95E+06	0.63 Y	1.21	1.16	-3.9%	
PCB-126 33'44'5'-PeCB	38.72	4.77E+06	0.62 Y	1.11	1.05	-5.1%	
PCB-156/157 ...-HxCB	41.28	9.62E+06	1.25 Y	1.10	1.05	-4.7%	
PCB-167 23'44'55'-HxCB	40.29	5.42E+06	1.21 Y	1.16	1.12	-3.2%	
PCB-169 33'44'55'-HxCB	44.00	4.85E+06	1.23 Y	1.12	1.09	-3.1%	
PCB-189 233'44'55'-HpCB	46.13	4.61E+06	1.02 Y	1.07	1.03	-3.6%	
PCB-209 DeCB	51.25	3.38E+06	1.17 Y	1.11	1.06	-4.8%	
ES PCB-1	12.04	2.39E+08	3.26 Y	1.19	1.21	1.3%	
ES PCB-3	14.36	2.19E+08	3.37 Y	1.09	1.10	1.5%	
ES PCB-4	14.61	1.04E+08	1.62 Y	0.52	0.53	0.5%	
ES PCB-15	20.38	2.08E+08	1.56 Y	1.04	1.05	0.9%	
ES PCB-19	17.73	1.01E+08	1.08 Y	0.51	0.51	0.4%	
ES PCB-37	26.74	1.56E+08	1.09 Y	1.66	1.68	1.0%	
ES PCB-54	20.66	8.13E+07	0.82 Y	0.86	0.88	1.7%	
ES PCB-77	33.09	1.31E+08	0.80 Y	1.38	1.42	2.5%	
ES PCB-81	32.61	1.27E+08	0.80 Y	1.37	1.36	-0.2%	
ES PCB-104	25.67	7.00E+07	1.67 Y	0.80	0.82	2.2%	
ES PCB-105	36.08	1.06E+08	1.61 Y	1.20	1.25	3.7%	
ES PCB-114	35.54	1.07E+08	1.65 Y	1.22	1.26	3.3%	
ES PCB-118	35.07	1.01E+08	1.61 Y	1.16	1.19	2.4%	
ES PCB-123	34.79	1.02E+08	1.58 Y	1.19	1.20	1.1%	
ES PCB-126	38.70	9.09E+07	1.58 Y	1.03	1.07	3.7%	
ES PCB-153	36.66	6.37E+07	1.31 Y	1.11	1.13	1.3%	
ES PCB-155	30.64	9.19E+07	1.33 Y	1.59	1.63	2.5%	
ES PCB-156/157	41.26	1.84E+08	1.30 Y	1.60	1.63	1.9%	
ES PCB-167	40.27	9.64E+07	1.30 Y	1.67	1.71	2.3%	
ES PCB-169	43.98	8.90E+07	1.30 Y	1.56	1.58	1.3%	
ES PCB-170	43.49	5.32E+07	1.08 Y	0.95	0.96	1.0%	
ES PCB-180	42.42	6.31E+07	1.09 Y	1.14	1.13	-0.4%	
ES PCB-188	35.54	5.40E+07	1.06 Y	0.94	0.96	1.8%	
ES PCB-189	46.11	8.91E+07	1.03 Y	1.58	1.60	1.0%	
ES PCB-202	40.08	5.60E+07	0.94 Y	0.97	0.99	2.3%	
ES PCB-205	48.28	7.02E+07	0.89 Y	1.24	1.26	1.3%	
ES PCB-206	49.75	4.73E+07	0.81 Y	0.83	0.85	2.3%	
ES PCB-208	45.73	6.67E+07	0.80 Y	1.17	1.20	1.9%	
ES PCB-209	51.23	6.37E+07	1.19 Y	1.11	1.14	3.2%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.73E+08	1.09 Y	1.11	1.11	-0.2%	
SS PCB-111	33.11	1.05E+08	1.62 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	3.27E+07	1.12 Y	0.62	0.61	-2.3%	
CS PCB-28	23.16	1.73E+08	1.09 Y	1.85	1.86	0.9%	
CS PCB-111	33.11	1.05E+08	1.62 Y	1.22	1.23	1.1%	
CS PCB-178	38.10	3.27E+07	1.12 Y	0.58	0.58	-0.5%	
JS PCB-9	16.61	1.98E+08	1.57 Y	-	-	-	
JS PCB-52	24.79	9.28E+07	0.79 Y	-	-	-	
JS PCB-101	30.81	8.53E+07	1.59 Y	-	-	-	
JS PCB-138	37.73	5.64E+07	1.31 Y	-	-	-	
JS PCB-194	47.88	5.57E+07	0.92 Y	-	-	-	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	1.11E+07	3.29 Y	0.95	0.92	-2.9%	
PCB-2 3-MoCB	14.18	1.07E+07	3.30 Y	1.03	0.98	-5.2%	
PCB-3 4-MoCB	14.37	1.07E+07	3.19 Y	1.01	0.98	-3.0%	
PCB-4 22'-DiCB	14.63	6.23E+06	1.60 Y	1.23	1.20	-2.9%	
PCB-10 26'-DiCB	14.81	1.01E+07	1.59 Y	1.98	1.93	-2.5%	
PCB-9 25'-DiCB	16.63	9.38E+06	1.58 Y	0.95	0.90	-4.6%	
PCB-7 24'-DiCB	16.80	1.06E+07	1.65 Y	1.05	1.02	-2.9%	
PCB-6 23'-DiCB	17.03	9.98E+06	1.58 Y	1.00	0.96	-3.7%	
PCB-5 23'-DiCB	17.33	1.00E+07	1.62 Y	1.00	0.96	-3.7%	
PCB-8 24'-DiCB	17.45	1.05E+07	1.60 Y	1.03	1.00	-2.7%	
PCB-14 35'-DiCB	19.02	1.19E+07	1.61 Y	1.18	1.15	-2.9%	
PCB-11 33'-DiCB	19.81	1.03E+07	1.64 Y	1.01	0.99	-1.9%	
PCB-13/12 34'/34'-DiCB	20.11	2.02E+07	1.61 Y	0.99	0.97	-1.7%	
PCB-15 44'-DiCB	20.39	1.02E+07	1.65 Y	1.02	0.98	-4.3%	
PCB-19 22'6'-TrCB	17.75	5.64E+06	1.05 Y	1.15	1.12	-2.5%	
PCB-30/18 246/22'5'-TrCB	19.52	1.52E+07	1.08 Y	1.54	1.51	-1.8%	
PCB-17 22'4'-TrCB	19.93	6.40E+06	1.08 Y	1.31	1.27	-2.7%	
PCB-27 23'6'-TrCB	20.12	8.92E+06	1.07 Y	1.82	1.77	-2.6%	
PCB-24 236'-TrCB	20.26	8.42E+06	1.05 Y	1.72	1.67	-3.0%	
PCB-16 22'3'-TrCB	20.35	5.03E+06	1.05 Y	1.01	1.00	-0.7%	
PCB-32 24'6'-TrCB	20.84	9.31E+06	1.07 Y	1.92	1.85	-3.7%	
PCB-34 23'5'-TrCB	21.99	8.68E+06	0.97 Y	1.14	1.11	-1.9%	
PCB-23 235'-TrCB	22.14	8.57E+06	1.00 Y	1.16	1.10	-4.7%	
PCB-26/29 23'5'/245'-TrCB	22.43	1.76E+07	0.99 Y	1.17	1.13	-3.4%	
PCB-25 23'4'-TrCB	22.63	8.79E+06	0.95 Y	1.16	1.13	-2.4%	
PCB-31 24'5'-TrCB	22.91	9.29E+06	0.97 Y	1.23	1.19	-2.7%	
PCB-28/20 244'/233'-TrCB	23.19	1.69E+07	1.00 Y	1.13	1.08	-4.3%	
PCB-21/33 234'/23'4'-TrCB	23.38	1.76E+07	0.99 Y	1.17	1.13	-3.7%	
PCB-22 234'-TrCB	23.75	8.06E+06	1.00 Y	1.08	1.04	-4.1%	
PCB-36 33'5'-TrCB	25.14	8.80E+06	0.98 Y	1.17	1.13	-3.4%	
PCB-39 34'5'-TrCB	25.46	9.00E+06	0.97 Y	1.21	1.16	-4.5%	
PCB-38 345'-TrCB	26.00	8.25E+06	0.97 Y	1.10	1.06	-4.0%	
PCB-35 33'4'-TrCB	26.39	7.78E+06	1.00 Y	1.04	1.00	-3.9%	
PCB-37 344'-TrCB	26.76	8.15E+06	0.98 Y	1.08	1.05	-2.9%	
PCB-54 22'66'-TeCB	20.68	5.32E+06	0.81 Y	1.35	1.31	-3.2%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.07E+07	0.80 Y	0.88	0.84	-3.9%	
PCB-45 22'36'-TeCB	23.27	4.46E+06	0.79 Y	0.77	0.70	-8.2%	
PCB-51 22'46'-TeCB	23.34	5.62E+06	0.80 Y	0.86	0.89	3.3%	
PCB-46 22'36'-TeCB	23.55	4.33E+06	0.78 Y	0.70	0.68	-2.0%	
PCB-52 22'55'-TeCB	24.82	5.19E+06	0.79 Y	0.84	0.82	-2.8%	
PCB-73 23'5'6'-TeCB	24.94	6.70E+06	0.79 Y	1.11	1.06	-4.8%	
PCB-43 22'35'-TeCB	25.04	4.56E+06	0.75 Y	0.71	0.72	1.4%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	1.26E+07	0.79 Y	1.02	0.99	-2.8%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	5.24E+06	0.81 Y	0.84	0.83	-1.3%	
PCB-44/47/65 ...-TeCB	25.74	1.64E+07	0.78 Y	0.90	0.86	-4.4%	
PCB-59/62/75 ...-TeCB	26.02	2.14E+07	0.79 Y	1.17	1.13	-3.2%	
PCB-42 22'34'-TeCB	26.18	4.75E+06	0.78 Y	0.76	0.75	-1.7%	
PCB-41 22'34'-TeCB	26.52	4.38E+06	0.79 Y	0.69	0.69	-0.5%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.05E+07	0.81 Y	0.86	0.83	-3.8%	
PCB-64 234'6'-TeCB	26.81	7.49E+06	0.79 Y	1.22	1.18	-3.0%	
PCB-72 23'55'-TeCB	27.53	7.51E+06	0.80 Y	1.21	1.19	-1.9%	
PCB-68 23'45'-TeCB	27.79	7.85E+06	0.75 Y	1.28	1.24	-2.8%	
PCB-57 233'5'-TeCB	28.16	7.33E+06	0.77 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.37	7.30E+06	0.76 Y	1.18	1.15	-2.1%	
PCB-67 23'45'-TeCB	28.52	7.81E+06	0.77 Y	1.26	1.23	-2.0%	
PCB-63 234'5'-TeCB	28.75	7.85E+06	0.76 Y	1.30	1.24	-4.4%	
PCB-61/70/74/76 ...-TeCB	29.05	2.94E+07	0.79 Y	1.20	1.16	-3.0%	
PCB-66 23'44'-TeCB	29.33	6.87E+06	0.76 Y	1.10	1.09	-1.5%	
PCB-55 233'4'-TeCB	29.47	7.07E+06	0.79 Y	1.12	1.12	-0.3%	
PCB-56 233'4'-TeCB	29.91	6.96E+06	0.77 Y	1.11	1.10	-1.0%	
PCB-60 2344'-TeCB	30.11	7.00E+06	0.78 Y	1.14	1.11	-2.5%	
PCB-80 33'55'-TeCB	30.43	8.09E+06	0.80 Y	1.31	1.28	-2.7%	
PCB-79 33'45'-TeCB	31.76	8.10E+06	0.78 Y	1.31	1.28	-2.0%	
PCB-78 33'45'-TeCB	32.25	6.61E+06	0.79 Y	1.06	1.04	-1.6%	
PCB-104 22'466'-PeCB	25.69	4.90E+06	0.65 Y	1.43	1.40	-2.3%	
PCB-96 22'366'-PeCB	26.01	4.21E+06	0.65 Y	1.23	1.20	-2.0%	
PCB-103 22'45'6'-PeCB	27.71	4.65E+06	0.62 Y	0.93	0.91	-2.2%	
PCB-94 22'356'-PeCB	27.90	4.04E+06	0.63 Y	0.80	0.79	-1.3%	
PCB-95 22'35'6'-PeCB	28.28	4.36E+06	0.62 Y	0.87	0.85	-1.5%	
PCB-100/93 22'44'6/22'356'-PeCB	28.50	8.64E+06	0.63 Y	0.86	0.85	-2.1%	
PCB-102 22'456'-PeCB	28.61	5.08E+06	0.63 Y	0.97	0.99	2.6%	
PCB-98 22'34'6'-PeCB	28.68	3.64E+06	0.64 Y	0.76	0.71	-6.0%	
PCB-88 22'346'-PeCB	28.98	3.75E+06	0.65 Y	0.80	0.73	-8.2%	
PCB-91 22'34'6'-PeCB	29.04	4.80E+06	0.63 Y	0.94	0.94	-0.5%	
PCB-84 22'33'6'-PeCB	29.24	3.58E+06	0.61 Y	0.72	0.70	-2.1%	
PCB-89 22'346'-PeCB	29.66	3.81E+06	0.62 Y	0.76	0.75	-2.3%	
PCB-121 23'45'6'-PeCB	30.00	5.96E+06	0.63 Y	1.20	1.16	-2.9%	
PCB-92 22'355'-PeCB	30.32	4.05E+06	0.62 Y	0.82	0.79	-3.5%	
PCB-113/90/101 ...-PeCB	30.81	1.47E+07	0.63 Y	0.99	0.96	-2.5%	
PCB-83 22'33'5'-PeCB	31.25	3.64E+06	0.59 Y	0.71	0.71	-0.4%	
PCB-99 22'44'5'-PeCB	31.34	4.49E+06	0.64 Y	0.92	0.88	-4.7%	
PCB-112 233'56'-PeCB	31.44	5.95E+06	0.63 Y	1.17	1.16	-0.4%	
PCB-108/119/86/97/125...-PeCB	31.79	2.92E+07	0.62 Y	0.98	0.95	-2.9%	
PCB-117 234'56'-PeCB	32.33	5.88E+06	0.62 Y	1.14	1.15	1.1%	
PCB-116/85 23456/22'344'-PeCB	32.42	9.01E+06	0.64 Y	0.94	0.88	-6.3%	
PCB-110 233'4'6'-PeCB	32.53	5.43E+06	0.63 Y	1.12	1.06	-5.0%	

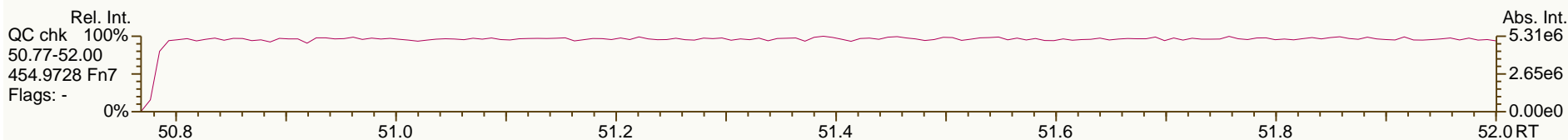
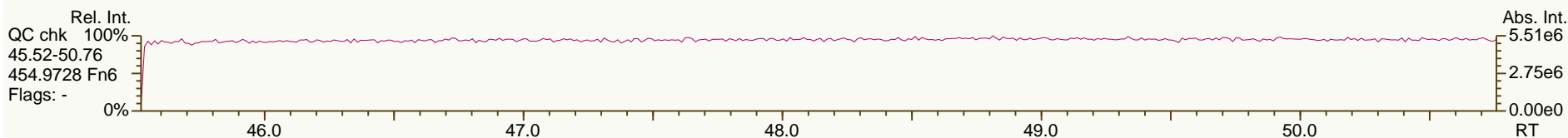
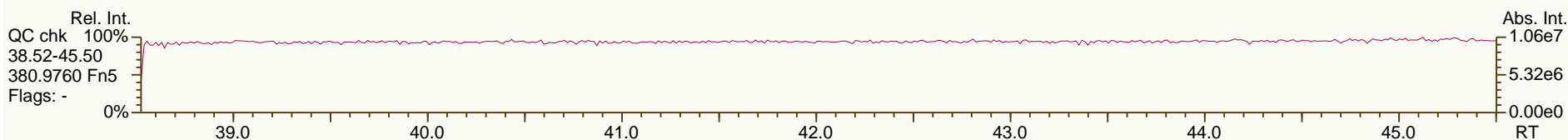
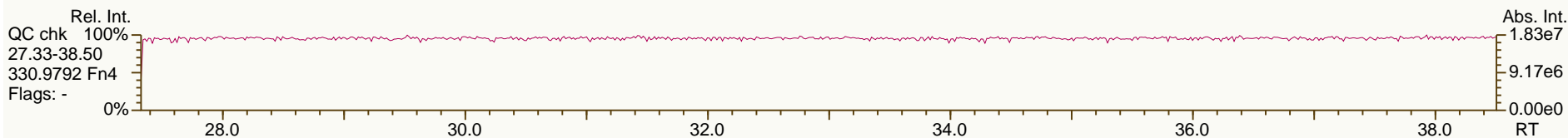
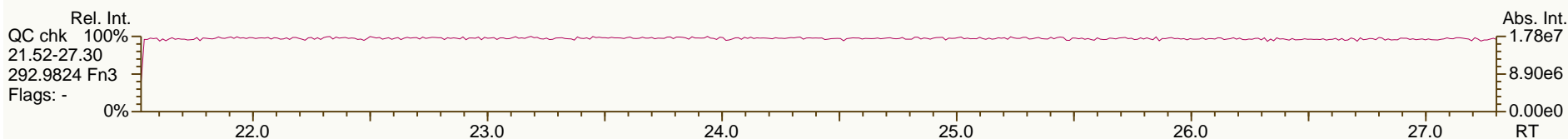
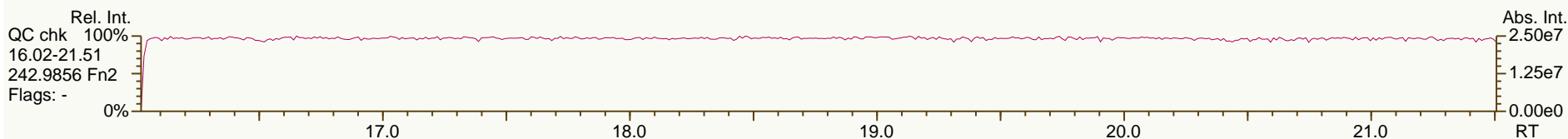
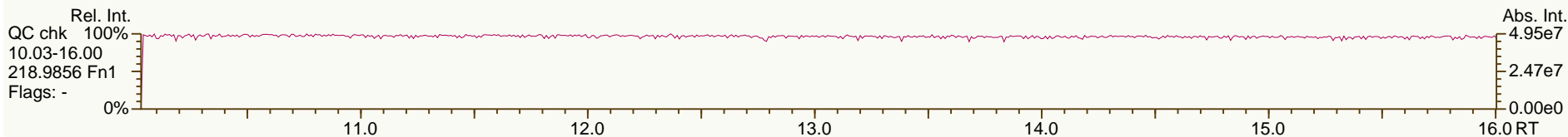
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.94E+06	0.60 Y	1.16	1.16	0.3%	
PCB-82 22'33'4-PeCB	32.82	3.45E+06	0.62 Y	0.70	0.67	-3.3%	
PCB-111 233'55'-PeCB	33.13	6.10E+06	0.63 Y	1.22	1.19	-2.3%	
PCB-120 23'455'-PeCB	33.53	6.04E+06	0.64 Y	1.21	1.18	-2.5%	
PCB-107/124 ...-PeCB	34.50	1.09E+07	0.62 Y	1.10	1.07	-2.9%	
PCB-109 233'46-PeCB	34.71	6.46E+06	0.62 Y	1.25	1.26	0.8%	
PCB-106 233'45-PeCB	34.93	5.32E+06	0.64 Y	1.11	1.04	-5.8%	
PCB-122 233'4'5'-PeCB	35.39	5.09E+06	0.64 Y	0.99	0.95	-4.5%	
PCB-127 33'455'-PeCB	37.34	5.46E+06	0.62 Y	1.10	1.03	-6.2%	
PCB-155 22'44'66'-HxCB	30.67	5.67E+06	1.29 Y	1.26	1.23	-2.2%	
PCB-152 22'3566'-HxCB	30.82	5.18E+06	1.28 Y	1.17	1.13	-3.8%	
PCB-150 22'34'66'-HxCB	30.97	5.27E+06	1.27 Y	1.18	1.15	-2.5%	
PCB-136 22'33'66'-HxCB	31.27	4.80E+06	1.26 Y	1.07	1.04	-2.1%	
PCB-145 22'3466'-HxCB	31.55	4.89E+06	1.31 Y	1.11	1.06	-4.5%	
PCB-148 22'34'56'-HxCB	32.82	3.69E+06	1.28 Y	1.18	1.16	-2.2%	
PCB-151/135 ...-HxCB	33.34	7.14E+06	1.23 Y	1.14	1.12	-1.6%	
PCB-154 22'44'56'-HxCB	33.55	4.14E+06	1.24 Y	1.34	1.30	-3.2%	
PCB-144 22'345'6'-HxCB	33.82	3.74E+06	1.28 Y	1.18	1.17	-0.8%	
PCB-147/149 ...-HxCB	34.12	7.38E+06	1.29 Y	1.18	1.16	-1.6%	
PCB-134 22'33'56-HxCB	34.29	2.81E+06	1.29 Y	0.92	0.88	-4.5%	
PCB-143 22'3456'-HxCB	34.38	3.63E+06	1.26 Y	1.13	1.14	0.8%	
PCB-139/140 ...-HxCB	34.64	7.45E+06	1.28 Y	1.21	1.17	-3.0%	
PCB-131 22'33'46-HxCB	34.82	3.13E+06	1.29 Y	1.03	0.98	-4.2%	
PCB-142 22'3456-HxCB	34.96	3.09E+06	1.24 Y	0.99	0.97	-1.9%	
PCB-132 22'33'46'-HxCB	35.20	3.22E+06	1.28 Y	1.03	1.01	-2.1%	
PCB-133 22'33'55'-HxCB	35.60	3.47E+06	1.26 Y	1.13	1.09	-3.9%	
PCB-165 233'55'6-HxCB	35.94	4.45E+06	1.24 Y	1.41	1.40	-0.9%	
PCB-146 22'34'55'-HxCB	36.16	3.72E+06	1.30 Y	1.20	1.17	-2.9%	
PCB-161 233'45'6-HxCB	36.28	4.78E+06	1.30 Y	1.52	1.50	-1.4%	
PCB-153/168 ...-HxCB	36.71	9.14E+06	1.28 Y	1.46	1.43	-1.6%	
PCB-141 22'3455'-HxCB	36.85	3.40E+06	1.30 Y	1.09	1.07	-2.0%	
PCB-130 22'33'45'-HxCB	37.20	3.05E+06	1.25 Y	0.97	0.96	-1.7%	
PCB-137 22'344'5-HxCB	37.40	3.51E+06	1.28 Y	1.16	1.10	-5.3%	
PCB-164 233'4'5'6-HxCB	37.48	4.84E+06	1.28 Y	1.50	1.52	1.3%	
PCB-163/138/129 ...-HxCB	37.77	1.09E+07	1.27 Y	1.19	1.14	-3.9%	
PCB-160 233'456-HxCB	37.91	4.74E+06	1.26 Y	1.52	1.49	-1.7%	
PCB-158 233'44'6-HxCB	38.09	5.15E+06	1.28 Y	1.66	1.62	-2.7%	
PCB-128/166 ...-HxCB	38.83	8.23E+06	1.25 Y	0.90	0.85	-5.1%	
PCB-159 233'455'-HxCB	39.64	5.14E+06	1.24 Y	1.11	1.07	-4.4%	
PCB-162 233'4'55'-HxCB	39.88	4.97E+06	1.21 Y	1.07	1.03	-3.7%	
PCB-188 22'34'566'-HpCB	35.56	3.30E+06	1.10 Y	1.27	1.22	-3.7%	
PCB-179 22'33'566'-HpCB	35.84	3.06E+06	1.09 Y	1.16	1.13	-2.3%	
PCB-184 22'344'66'-HpCB	36.30	2.96E+06	1.03 Y	1.13	1.10	-2.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS2_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 17:09						
Datafile:	131220X04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.60	3.29E+06	1.07 Y	1.23	1.22	-1.2%	
PCB-186 22'34566'-HpCB	37.00	2.98E+06	1.06 Y	1.13	1.10	-1.9%	
PCB-178 22'33'55'6'-HpCB	38.13	2.21E+06	1.08 Y	0.84	0.82	-2.7%	
PCB-175 22'33'45'6'-HpCB	38.67	3.31E+06	1.06 Y	1.07	1.05	-2.3%	
PCB-187 22'34'55'6'-HpCB	38.90	3.49E+06	0.96 Y	1.14	1.11	-2.9%	
PCB-182 22'344'56'-HpCB	39.08	3.67E+06	1.07 Y	1.18	1.16	-1.0%	
PCB-183 22'344'5'6'-HpCB	39.43	3.83E+06	1.05 Y	1.20	1.21	0.7%	
PCB-185 22'3455'6'-HpCB	39.52	3.13E+06	1.08 Y	1.06	0.99	-6.4%	
PCB-174 22'33'456'-HpCB	39.62	3.03E+06	1.07 Y	0.99	0.96	-2.8%	
PCB-177 22'33'45'6'-HpCB	40.00	2.93E+06	1.10 Y	0.95	0.93	-2.3%	
PCB-181 22'344'56'-HpCB	40.35	3.27E+06	1.08 Y	1.09	1.04	-4.9%	
PCB-171/173 ...-HpCB	40.53	5.79E+06	1.06 Y	0.95	0.92	-3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.98E+06	1.07 Y	0.99	0.95	-4.3%	
PCB-192 233'455'6'-HpCB	42.13	4.03E+06	1.06 Y	1.29	1.28	-0.7%	
PCB-180/193 ...-HpCB	42.41	7.75E+06	1.08 Y	1.26	1.23	-2.6%	
PCB-191 233'44'5'6'-HpCB	42.74	4.20E+06	1.05 Y	1.40	1.33	-4.6%	
PCB-170 22'33'44'5'-HpCB	43.51	2.91E+06	1.04 Y	1.14	1.09	-3.7%	
PCB-190 233'44'56'-HpCB	43.97	4.21E+06	1.06 Y	1.66	1.58	-4.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.80E+06	0.89 Y	1.05	1.00	-5.1%	
PCB-201 22'33'45'66'-OcCB	40.89	3.33E+06	0.92 Y	1.22	1.19	-2.7%	
PCB-204 22'344'566'-OcCB	41.47	3.01E+06	0.94 Y	1.12	1.08	-3.6%	
PCB-197 22'33'44'66'-OcCB	41.66	3.09E+06	0.91 Y	1.19	1.11	-7.1%	
PCB-200 22'33'4566'-OcCB	41.75	3.13E+06	0.89 Y	1.11	1.12	1.0%	
PCB-198/199 ...-OcCB	44.08	4.38E+06	0.92 Y	0.81	0.78	-3.4%	
PCB-196 22'33'44'56'-OcCB	44.66	2.29E+06	0.94 Y	0.83	0.82	-1.8%	
PCB-203 22'344'55'6'-OcCB	44.83	2.39E+06	0.93 Y	0.87	0.85	-2.2%	
PCB-195 22'33'44'56'-OcCB	45.95	2.57E+06	0.90 Y	0.77	0.73	-4.5%	
PCB-194 22'33'44'55'-OcCB	47.90	2.84E+06	0.87 Y	0.84	0.81	-4.1%	
PCB-205 233'44'55'6'-OcCB	48.30	3.53E+06	0.93 Y	1.06	1.01	-5.1%	
PCB-208 22'33'455'66'-NoCB	45.75	3.57E+06	0.81 Y	1.12	1.07	-4.7%	
PCB-207 22'33'44'566'-NoCB	46.54	3.79E+06	0.76 Y	1.19	1.14	-4.4%	
PCB-206 22'33'44'55'6'-NoCB	49.78	2.55E+06	0.78 Y	1.11	1.08	-3.2%	

SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

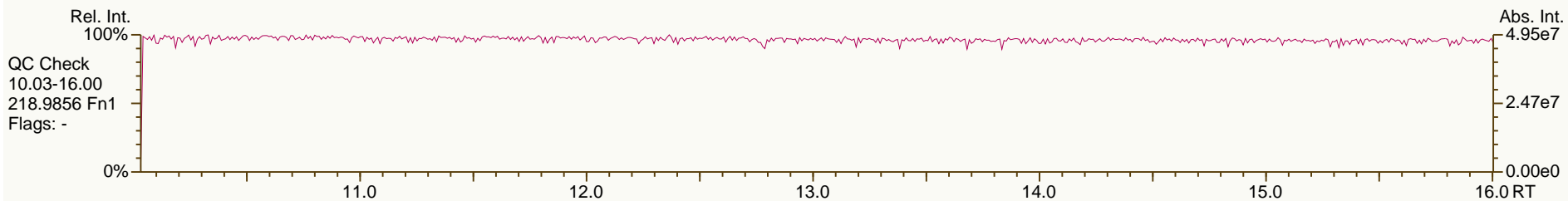
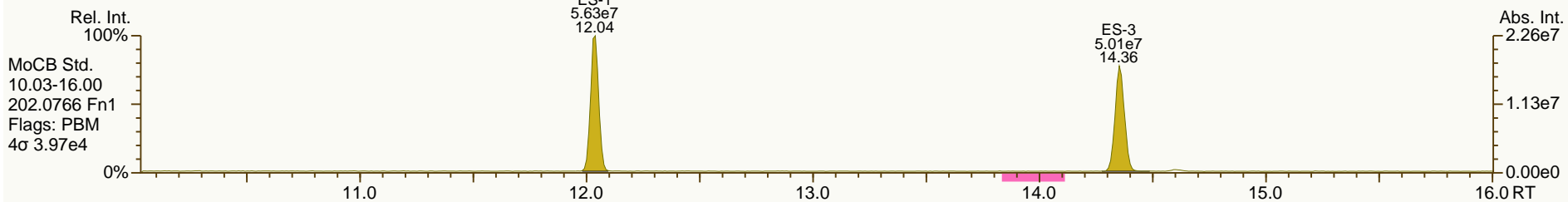
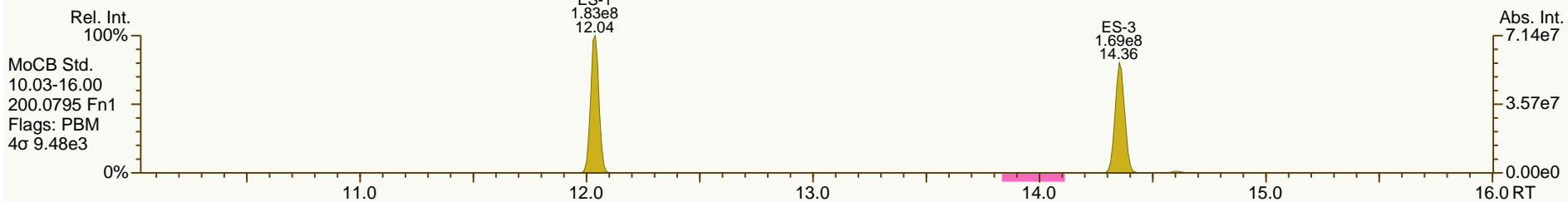
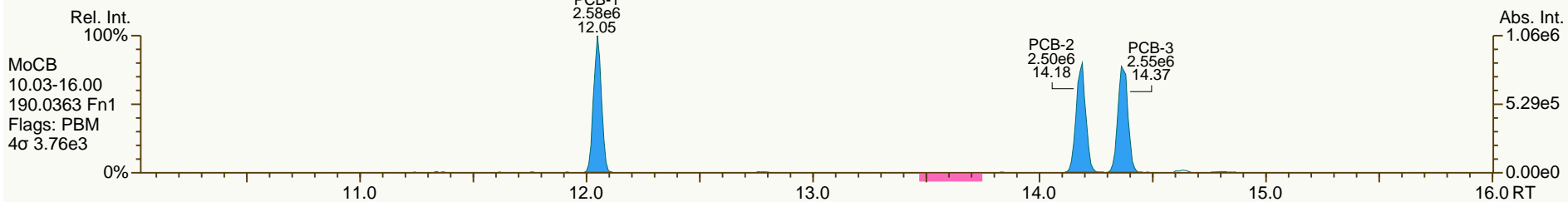
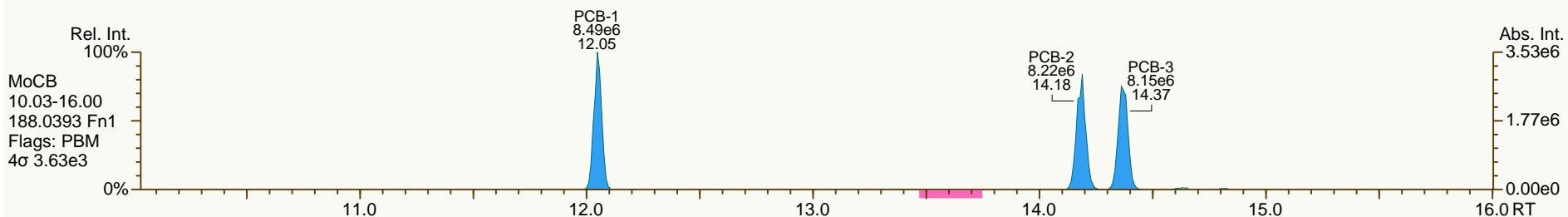
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
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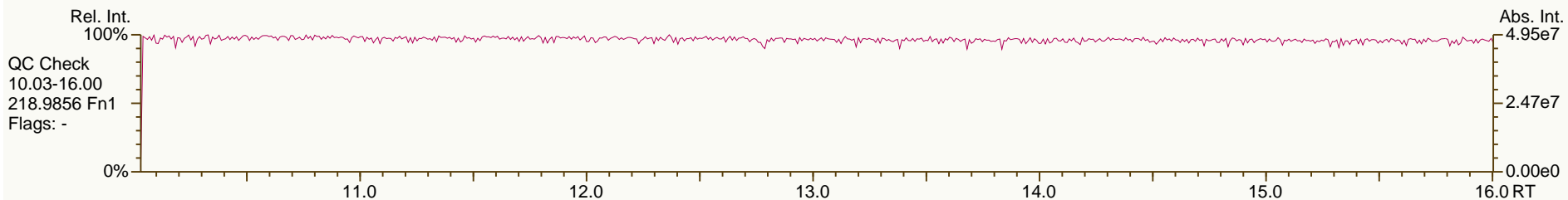
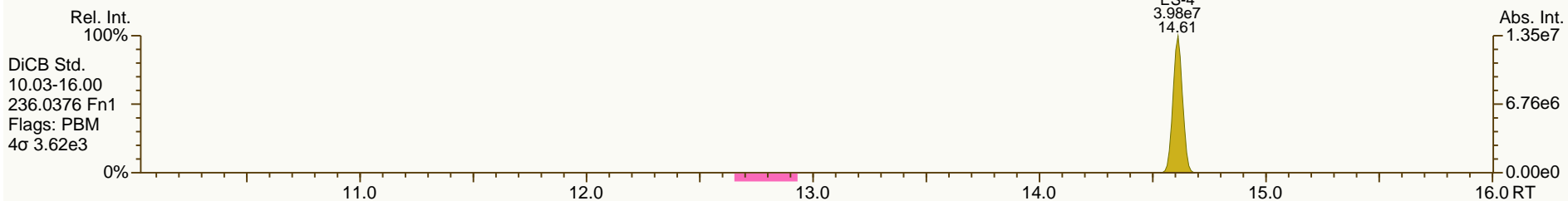
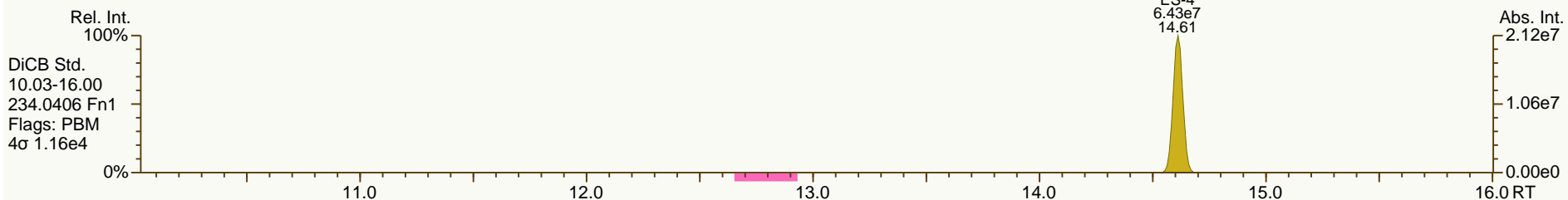
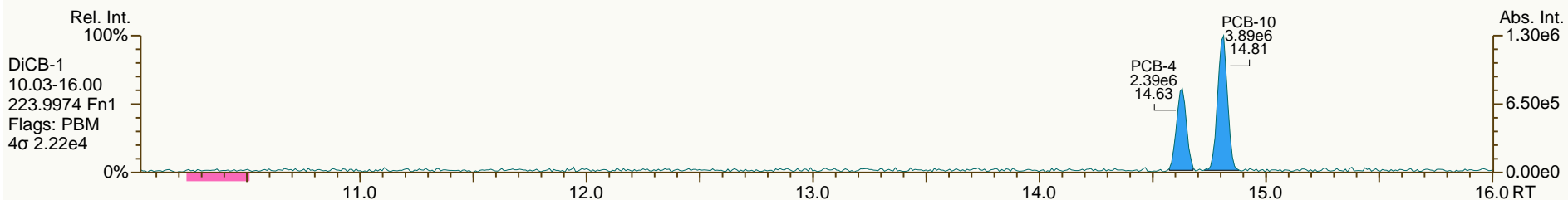
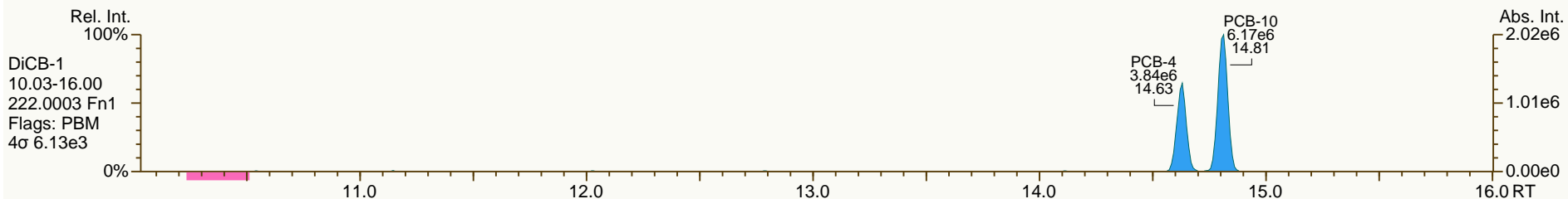




SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

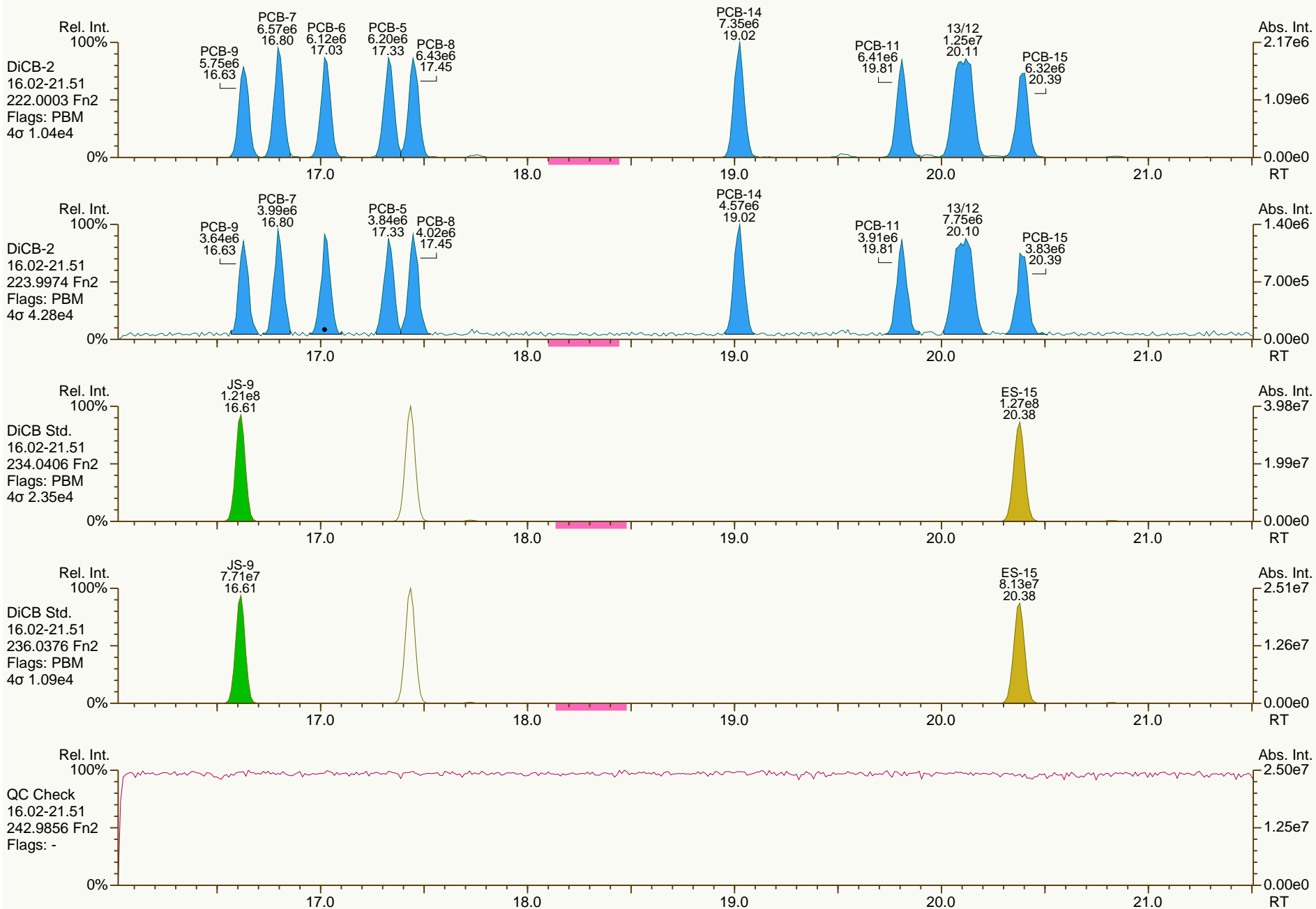
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

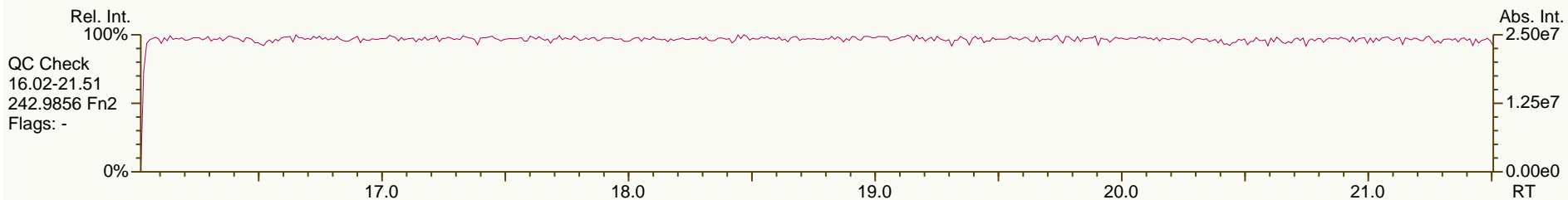
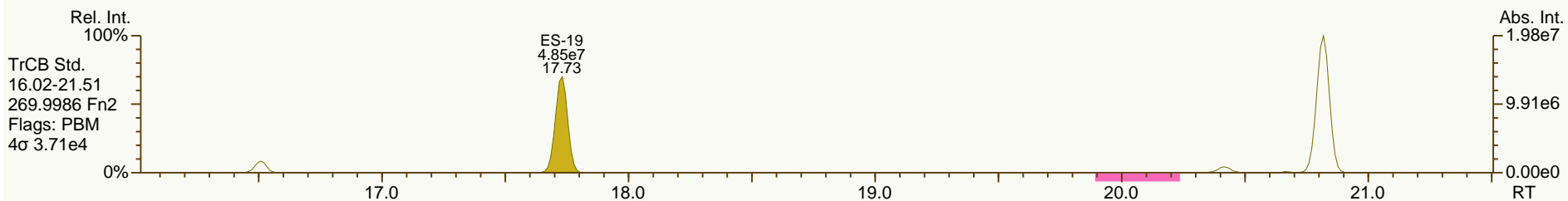
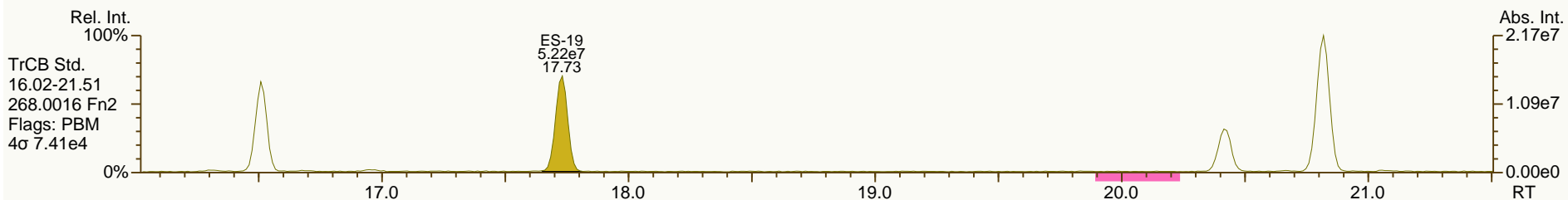
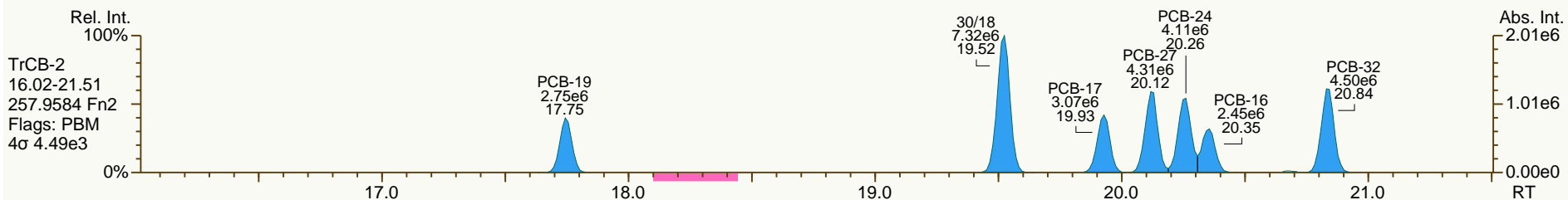
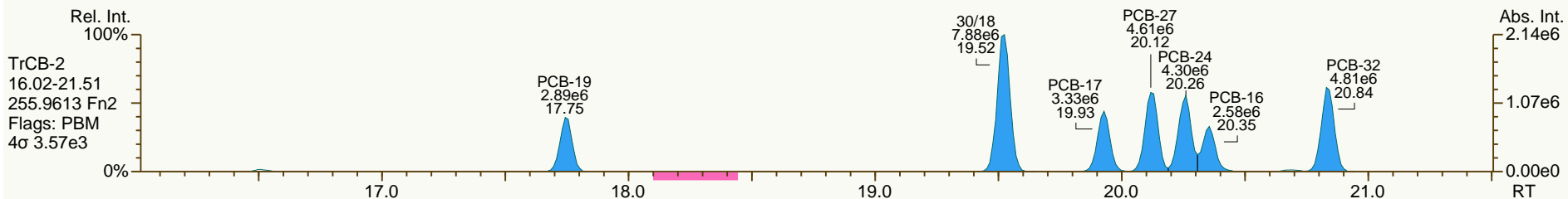
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

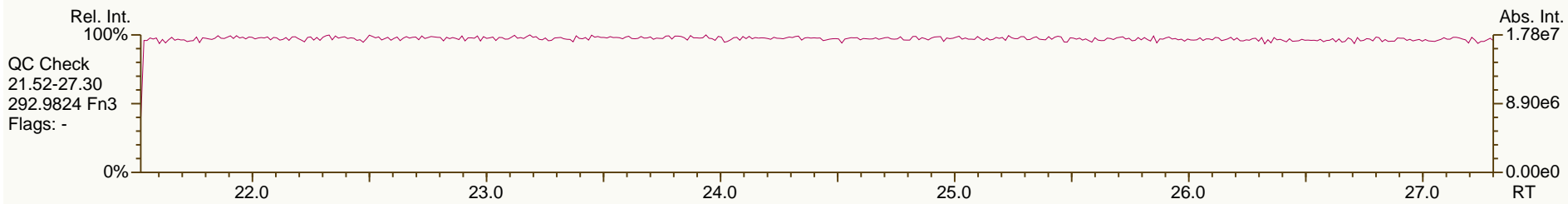
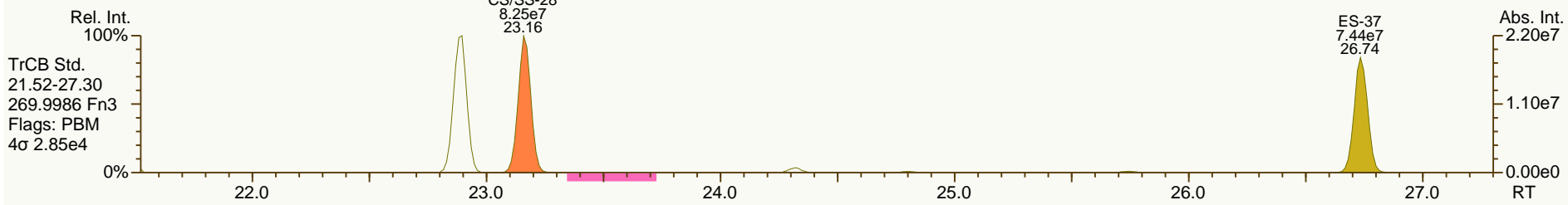
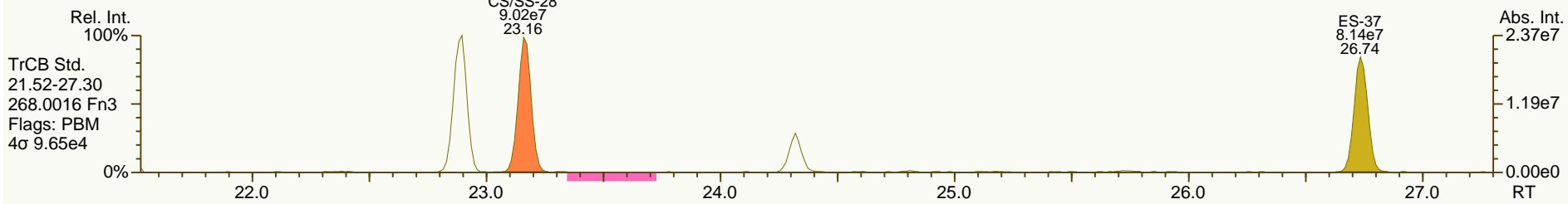
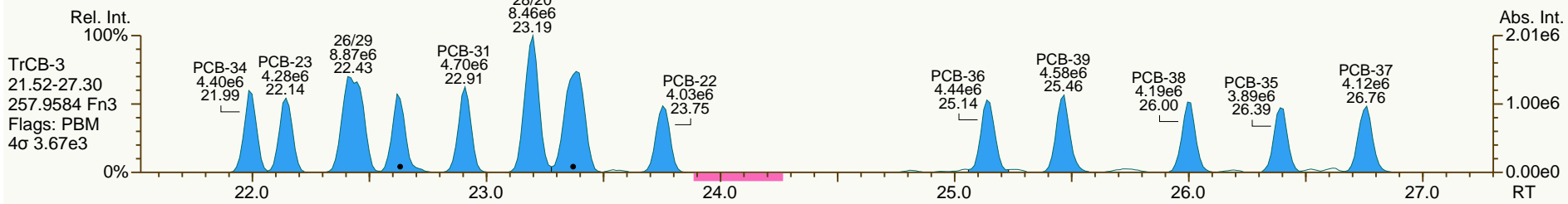
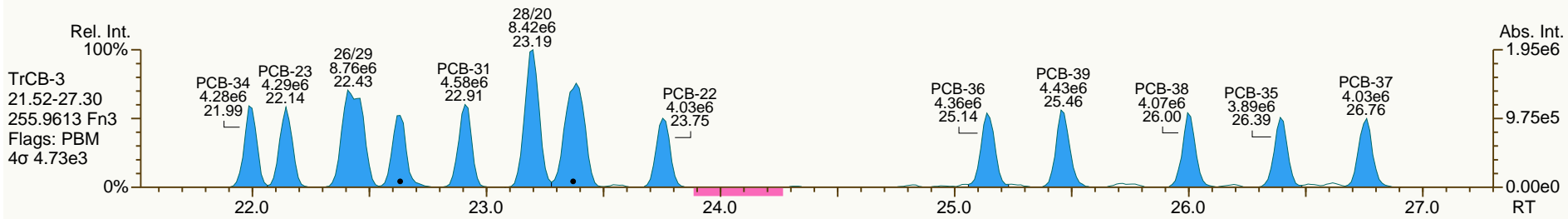
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

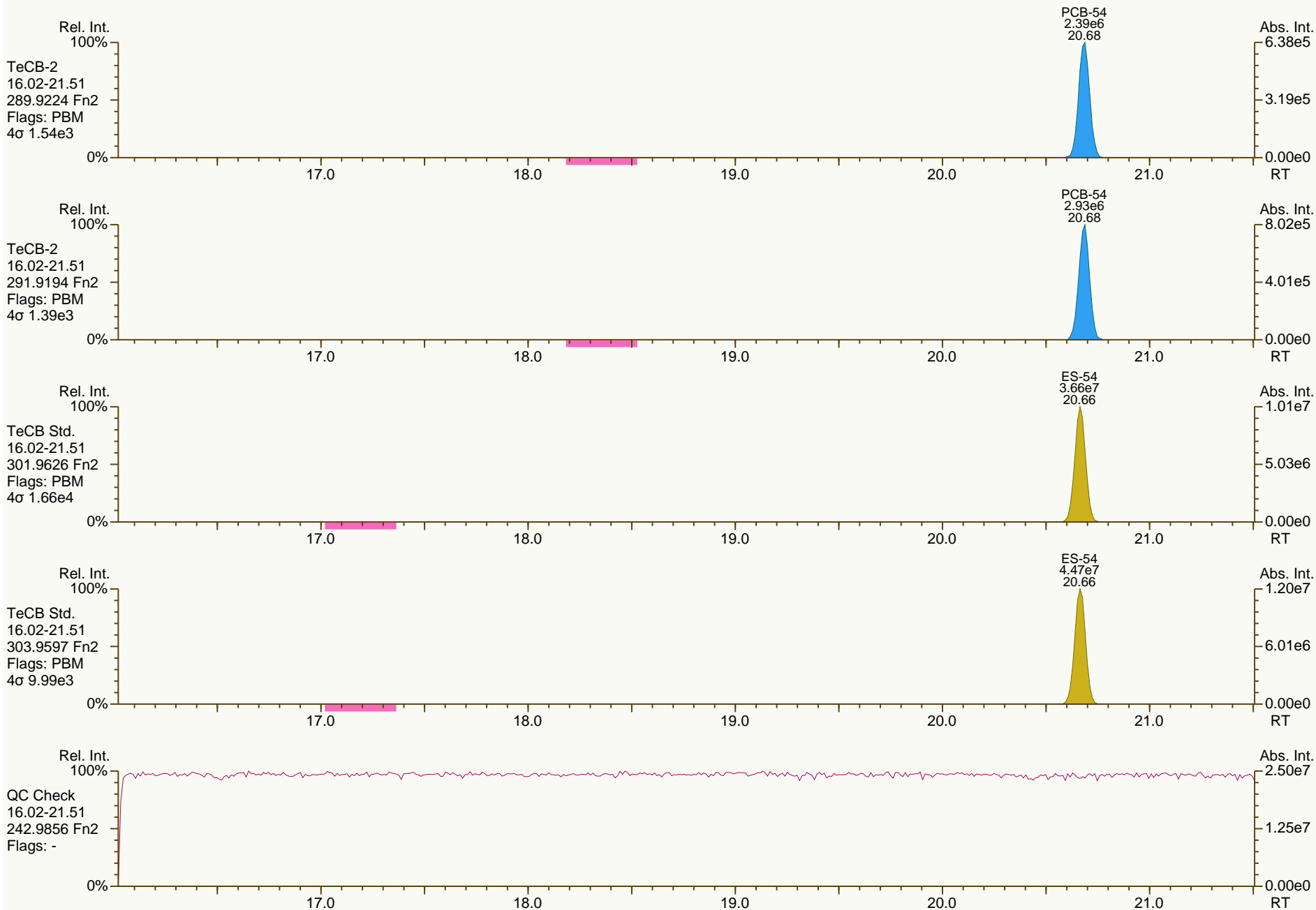
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 User: LKB Datafile: 131220X04



SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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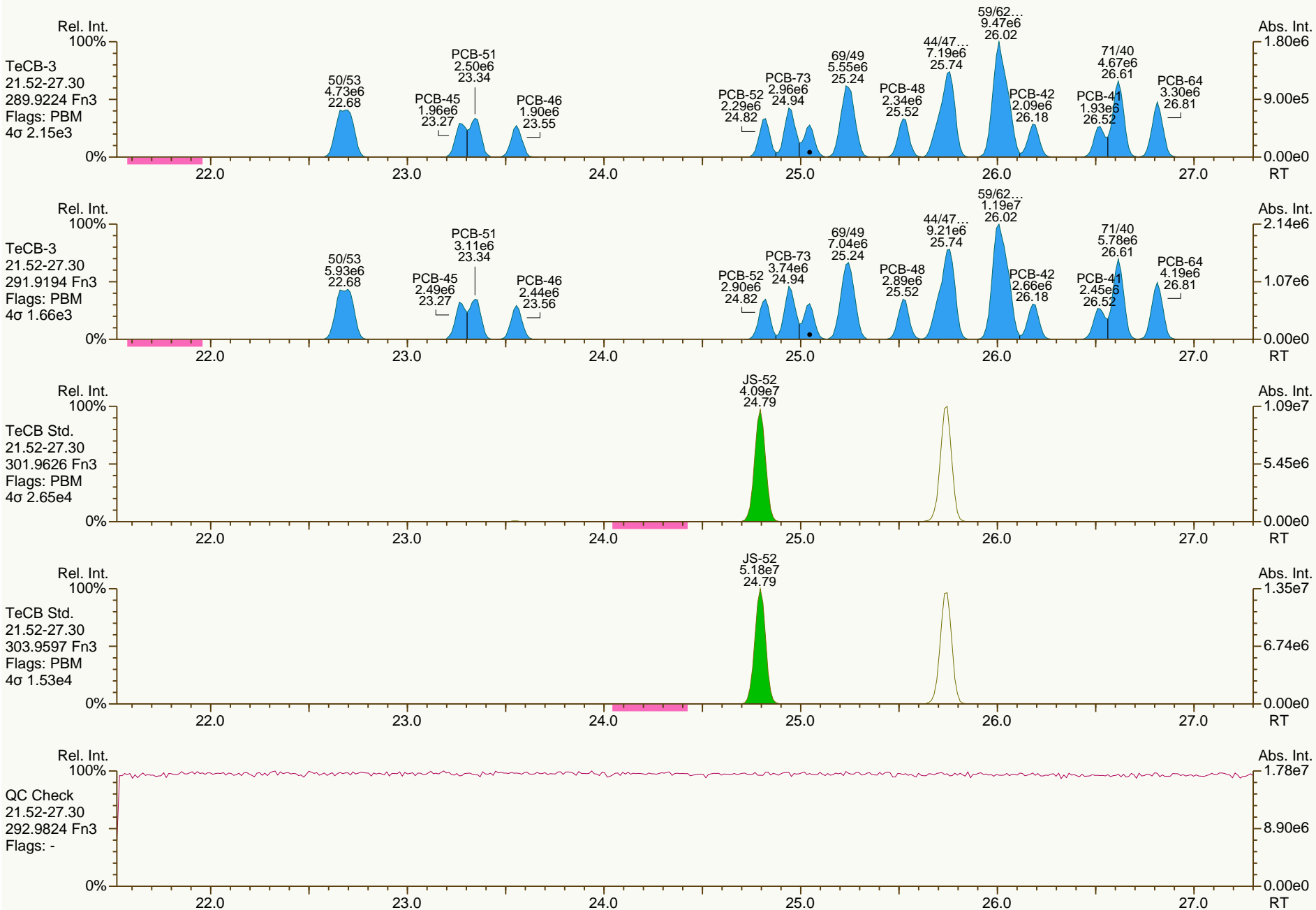
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-4  
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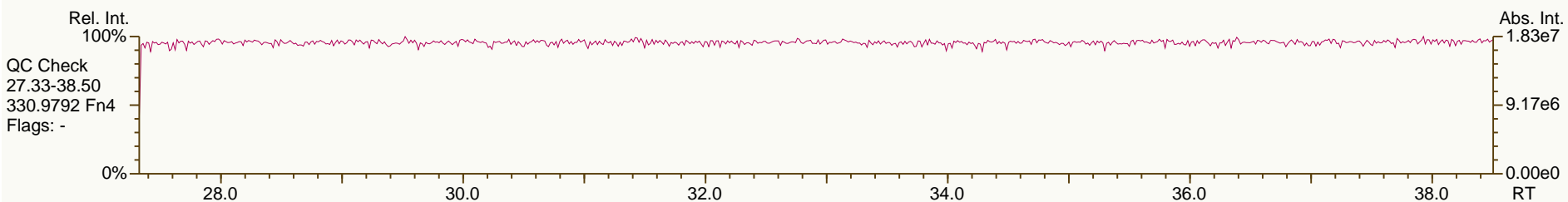
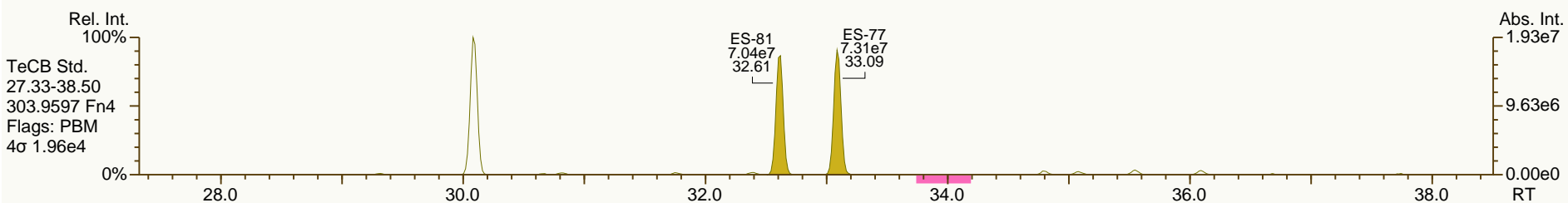
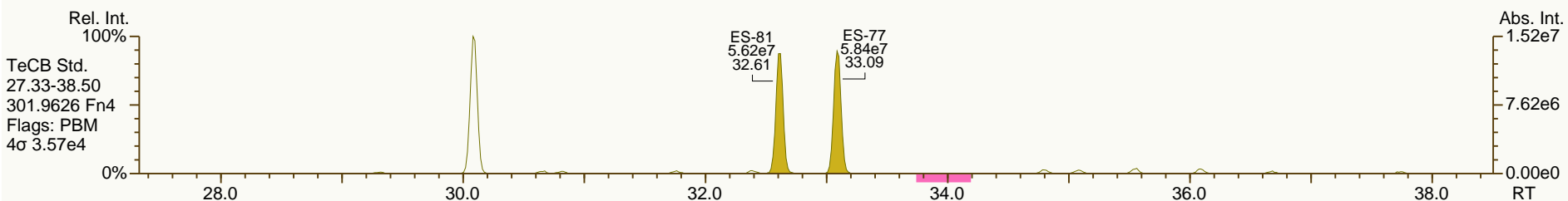
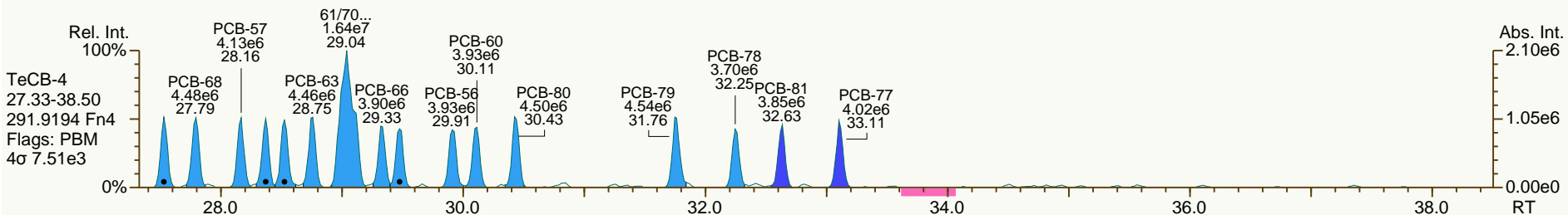
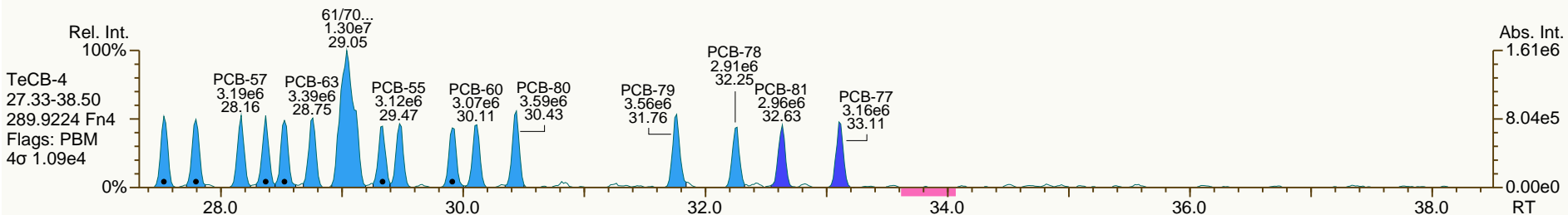
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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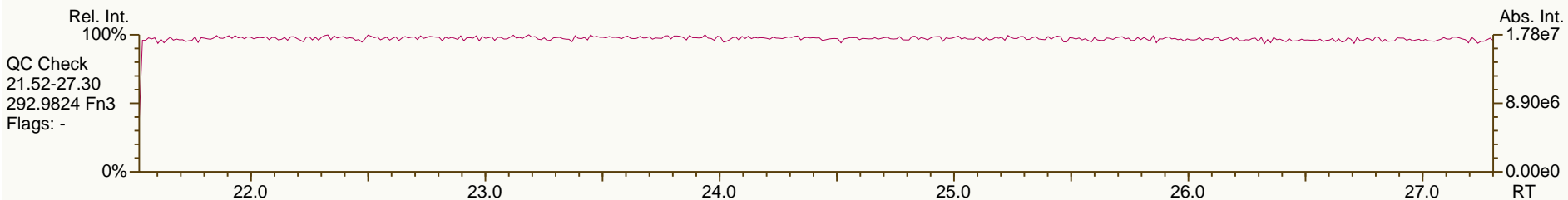
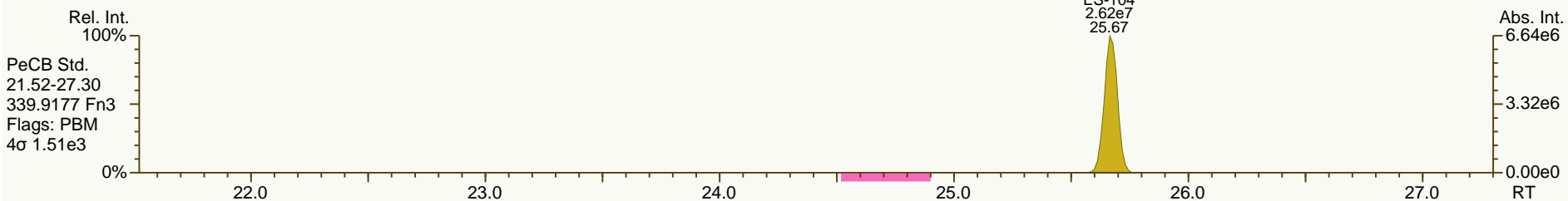
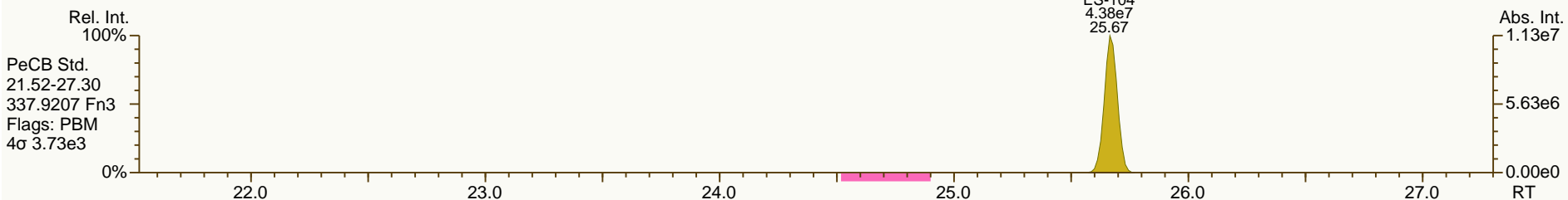
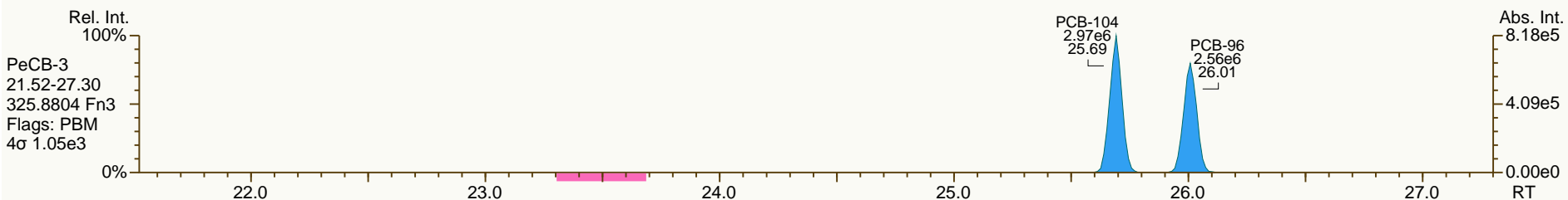
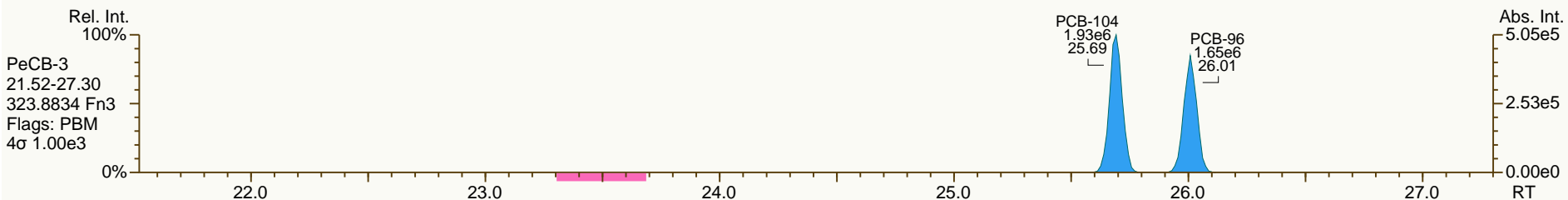
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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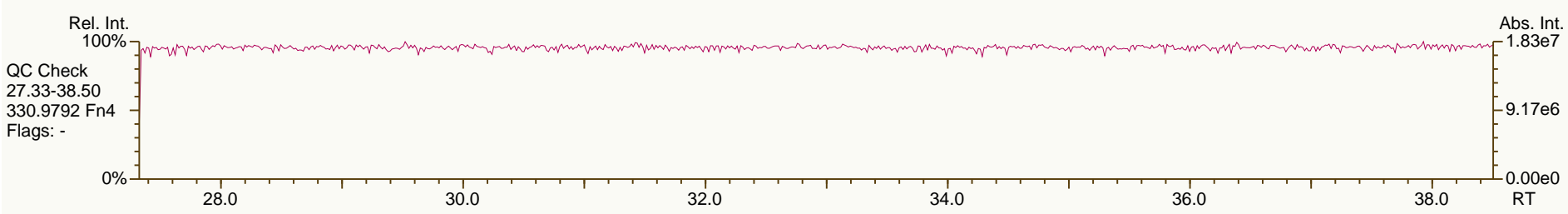
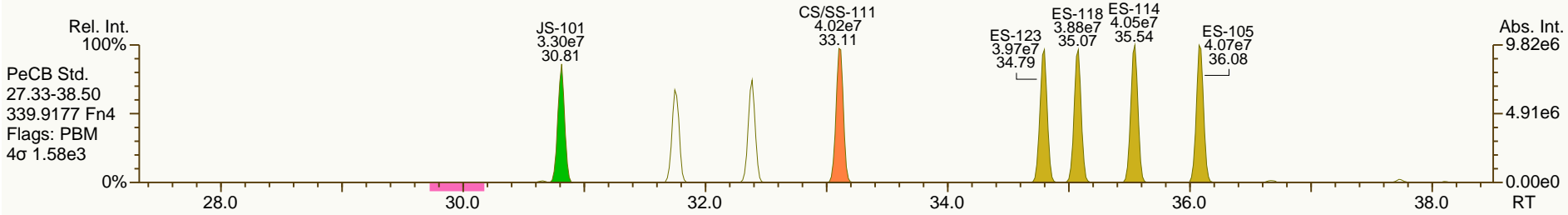
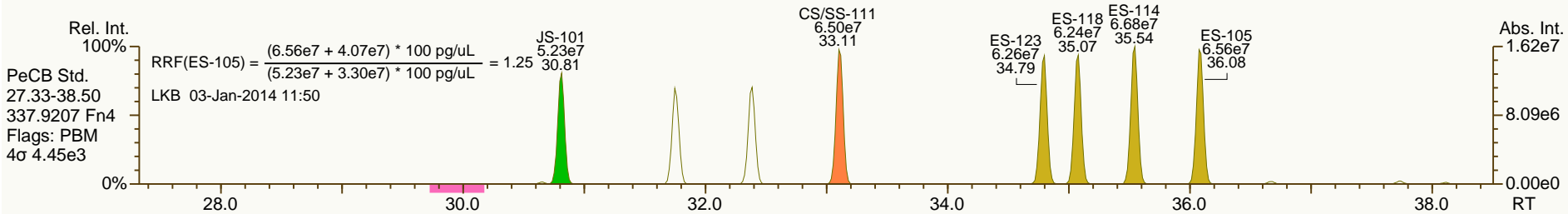
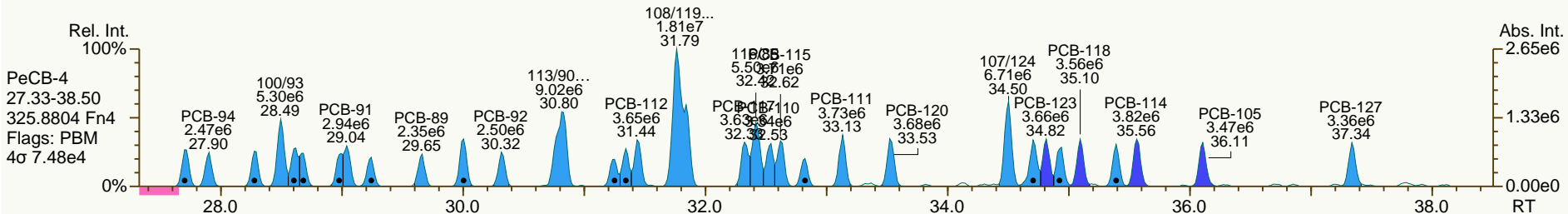
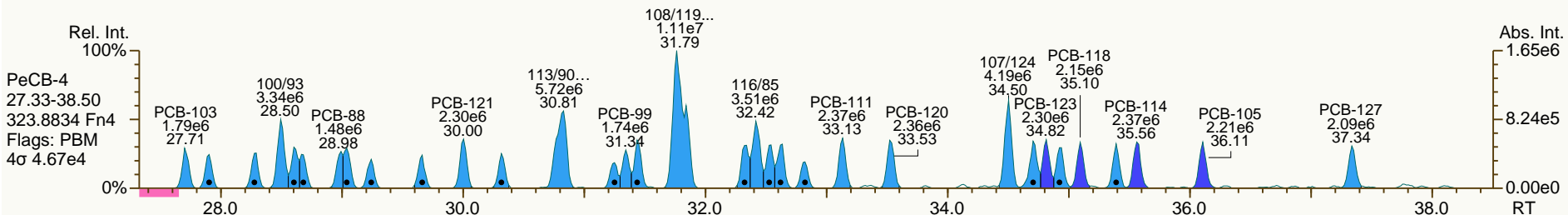




SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

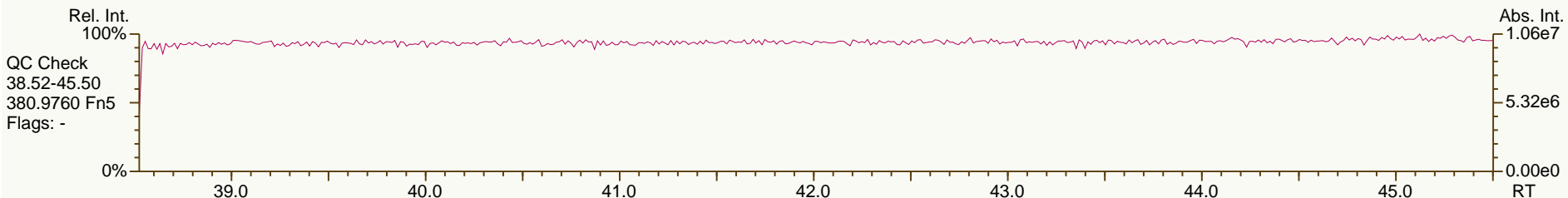
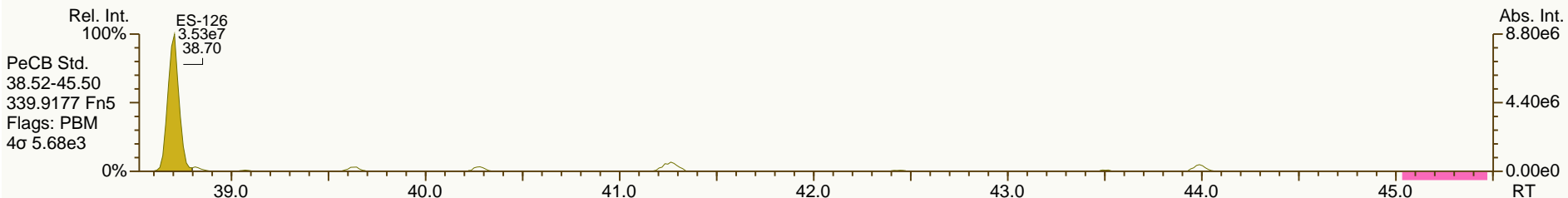
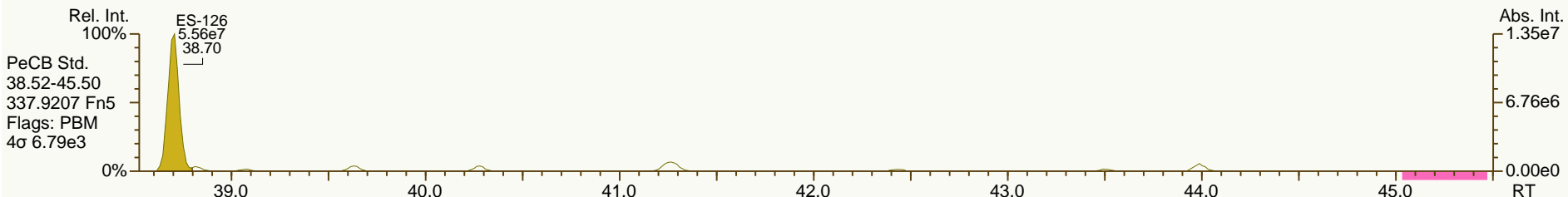
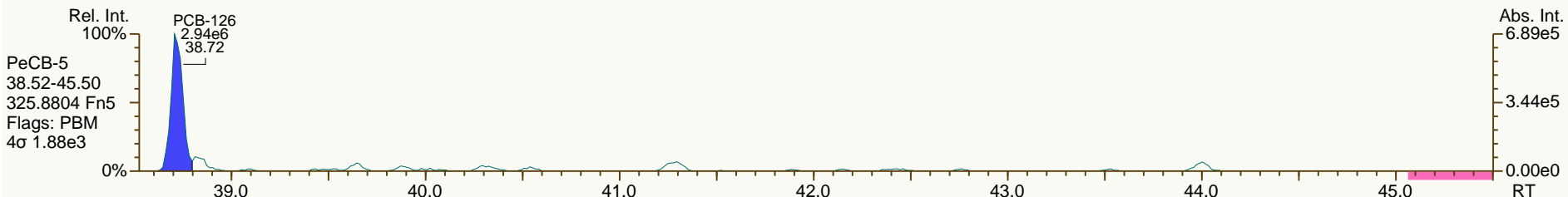
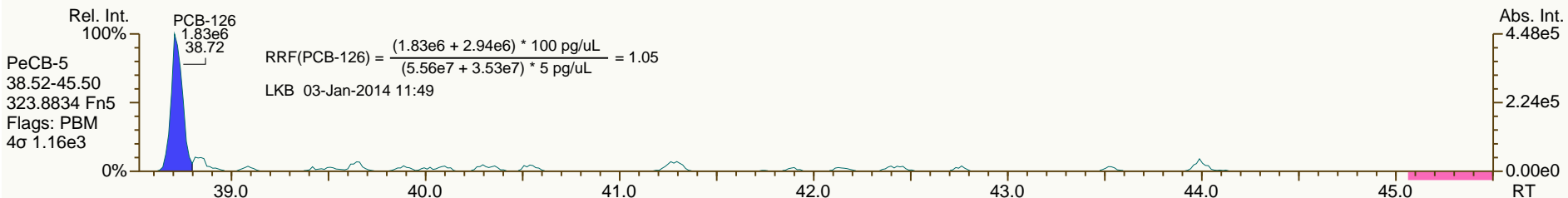
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

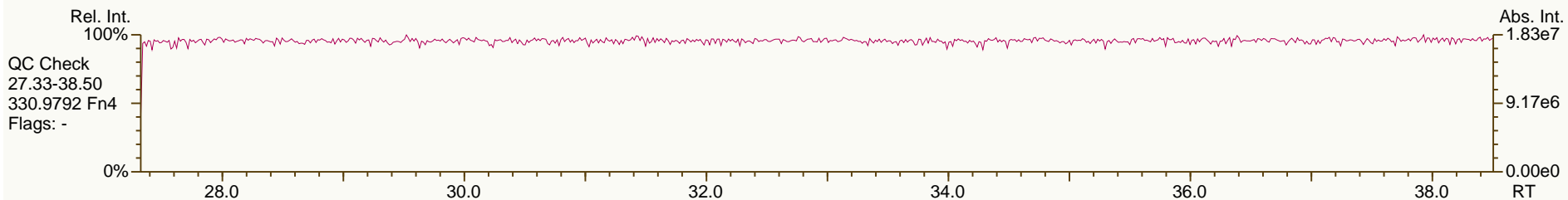
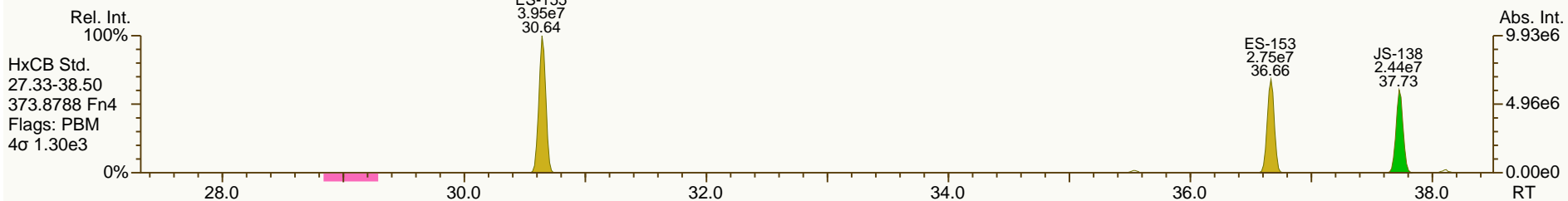
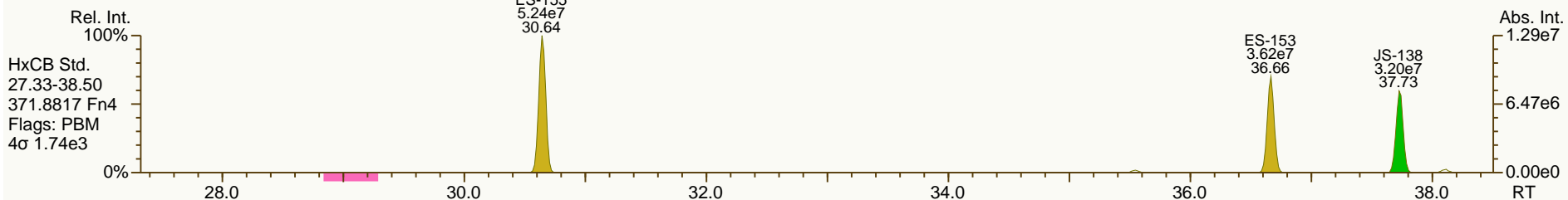
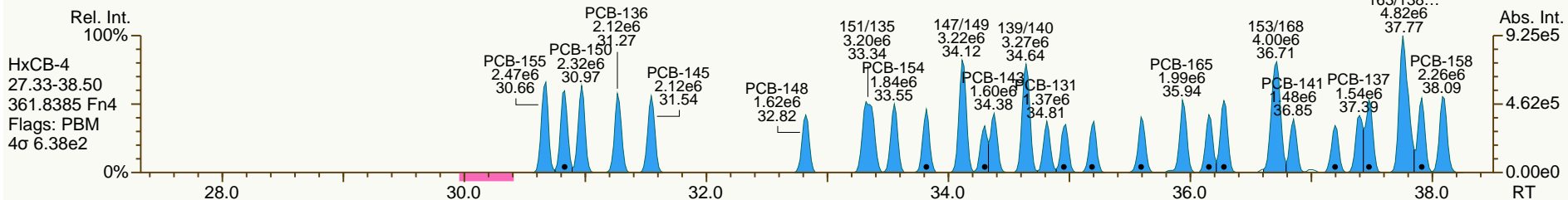
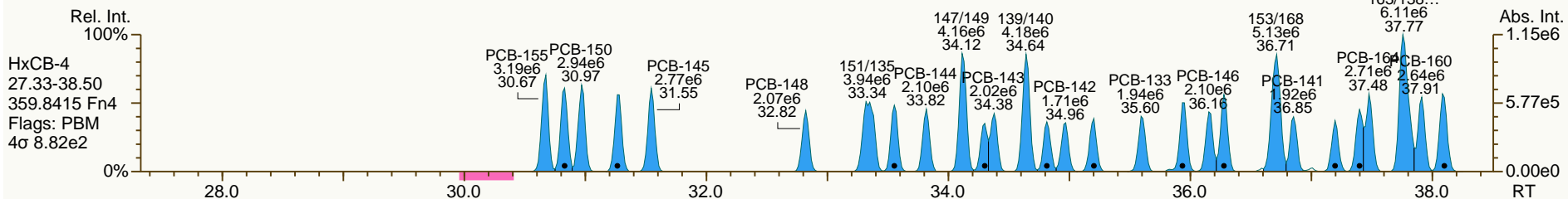
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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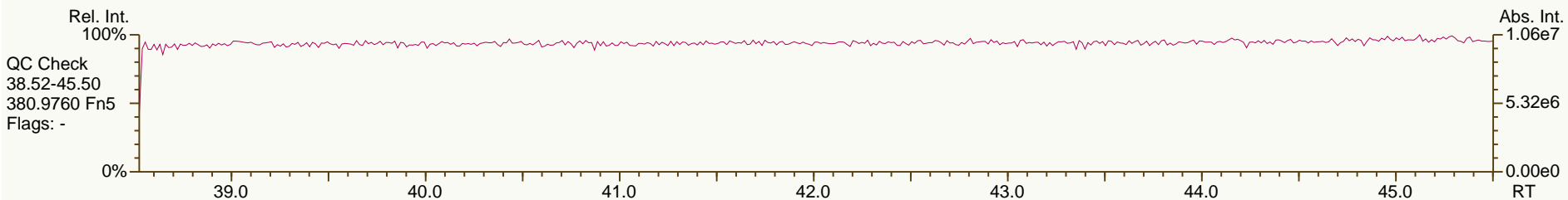
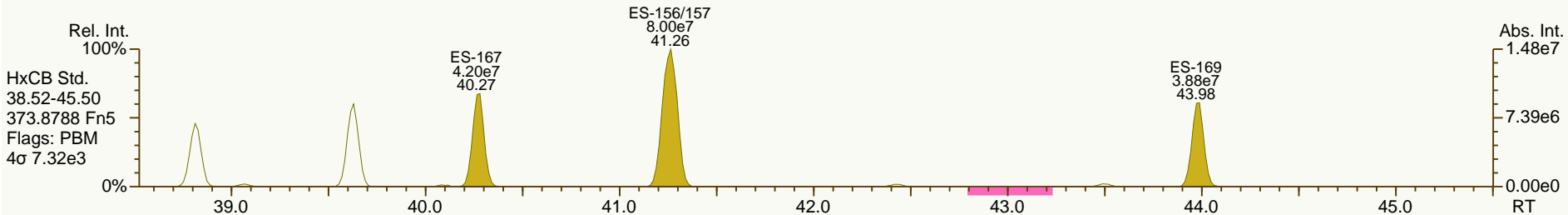
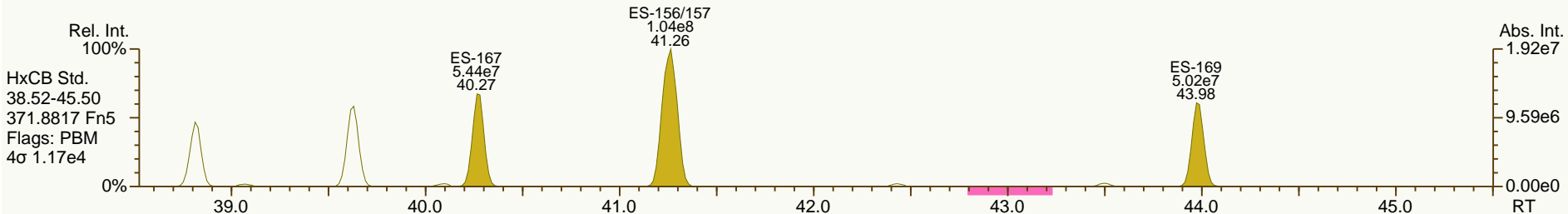
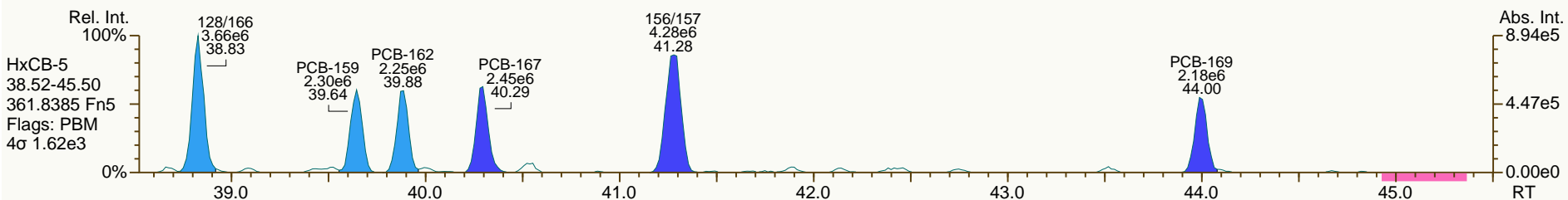
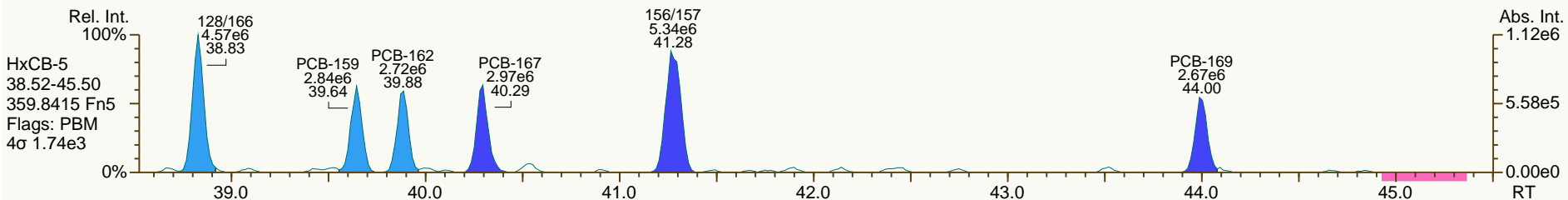
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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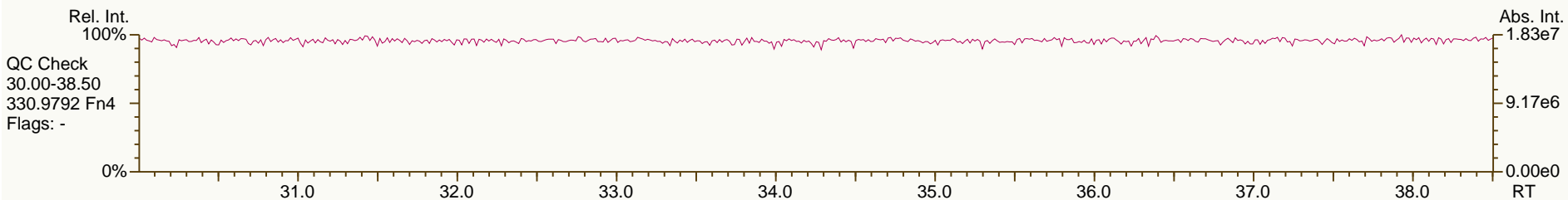
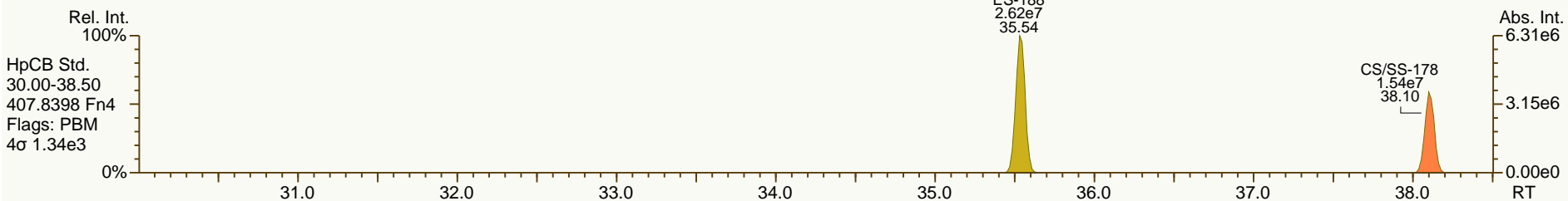
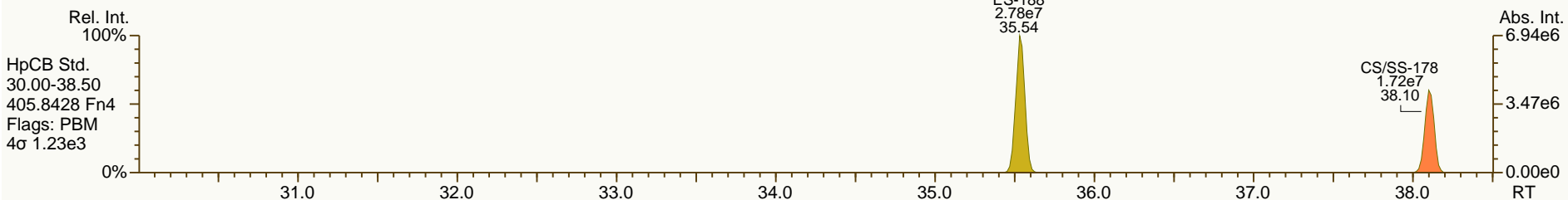
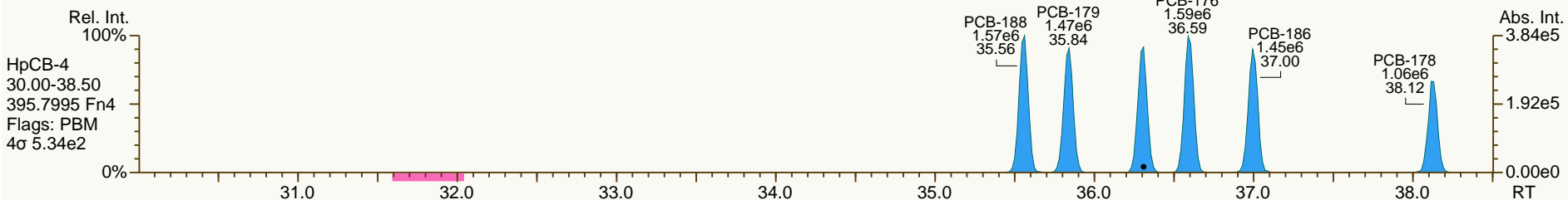
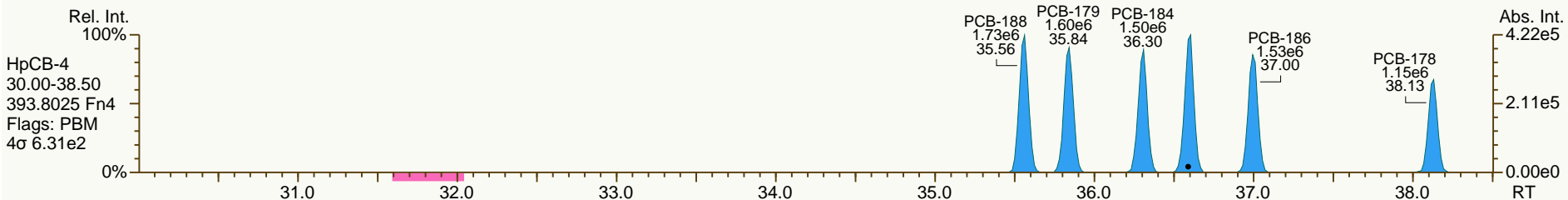
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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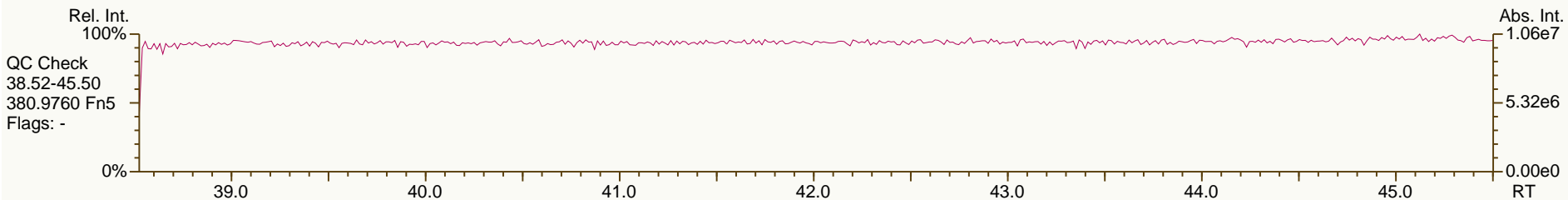
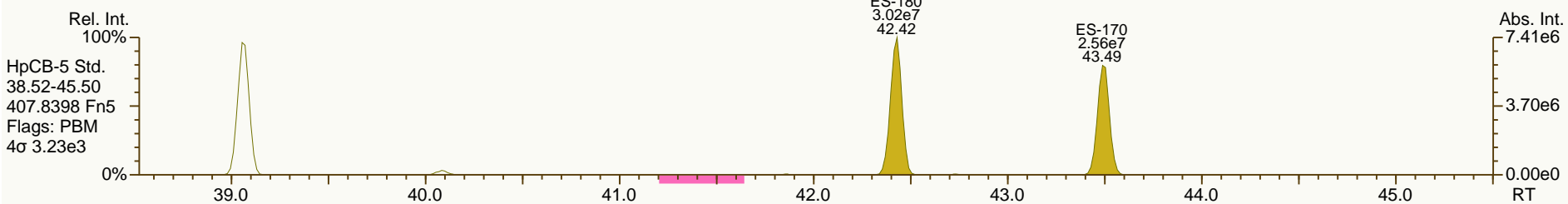
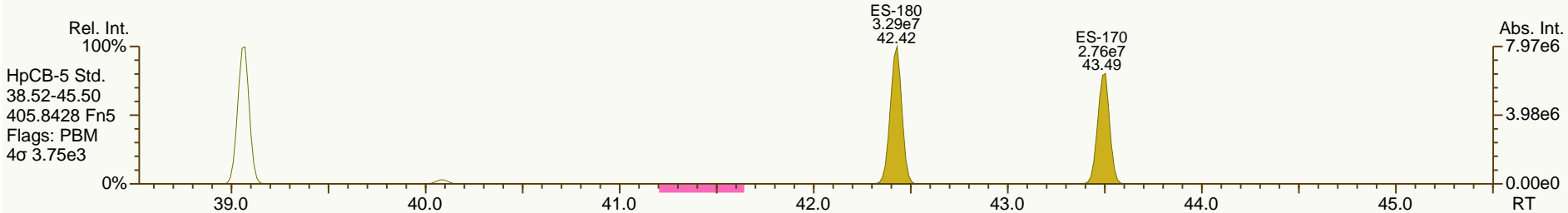
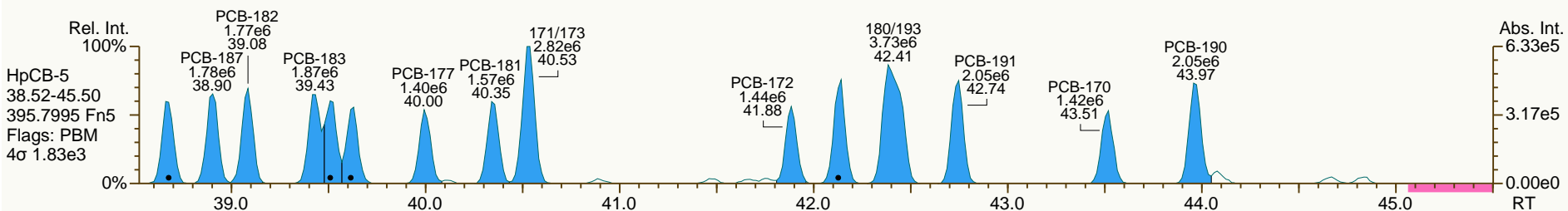
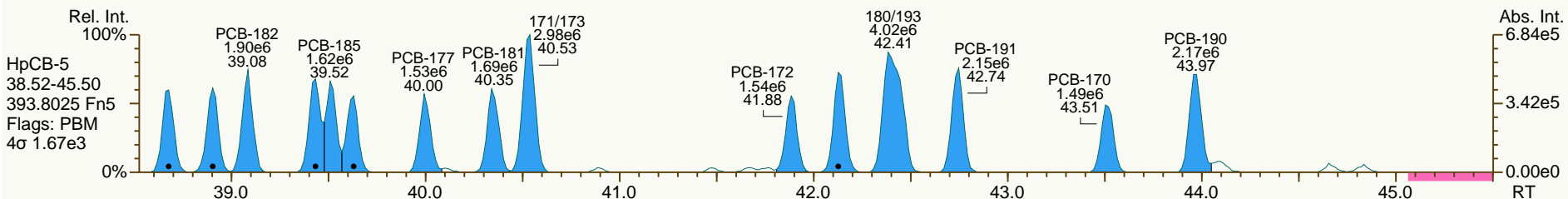
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SGS-AP ID: CS2\_131220\_PCB\_XA  
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Sample ID: SIL 13-79-4  
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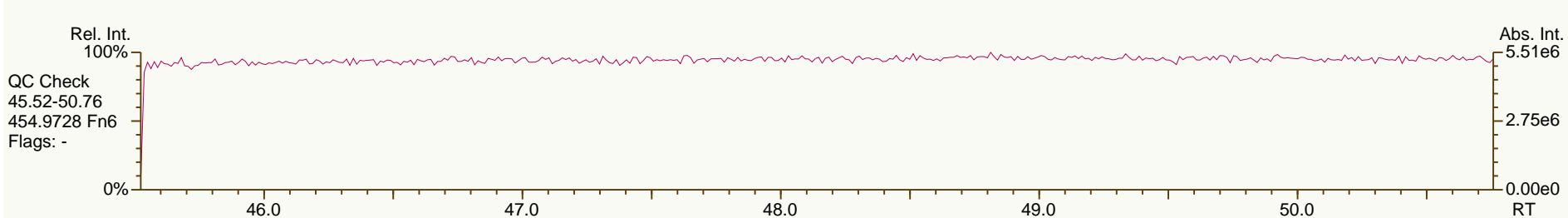
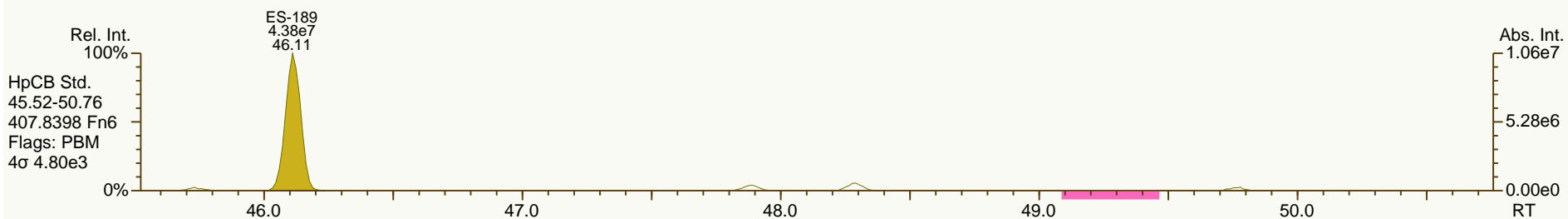
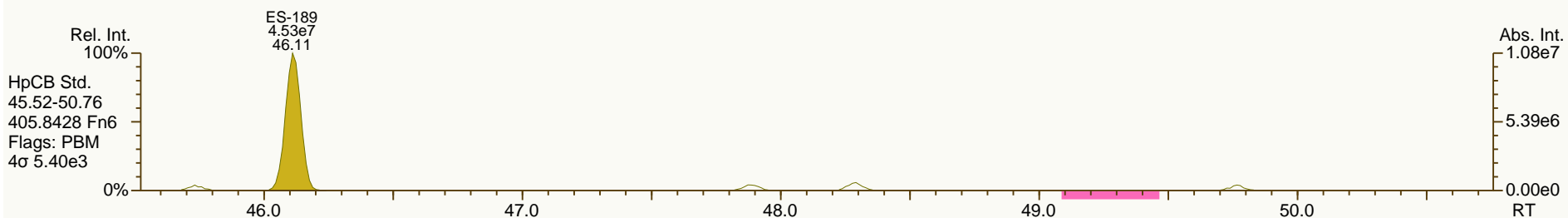
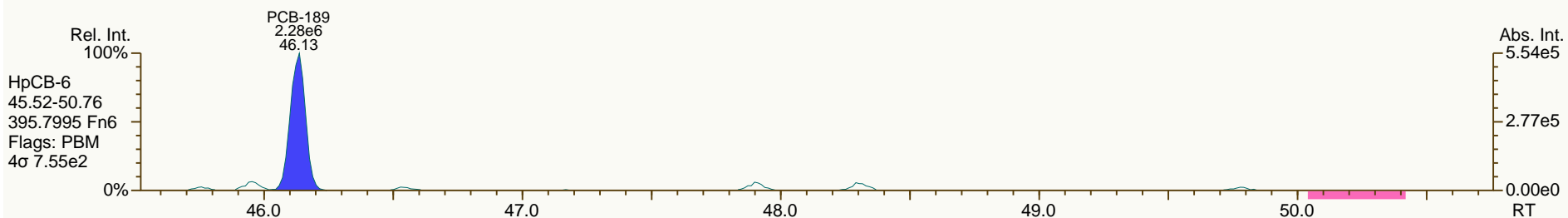
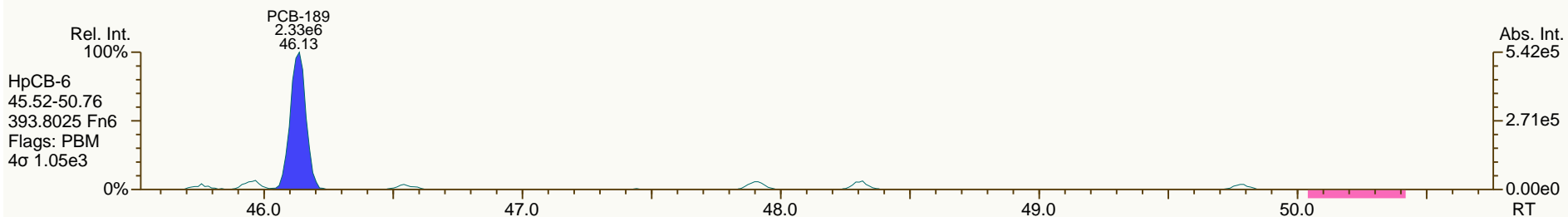
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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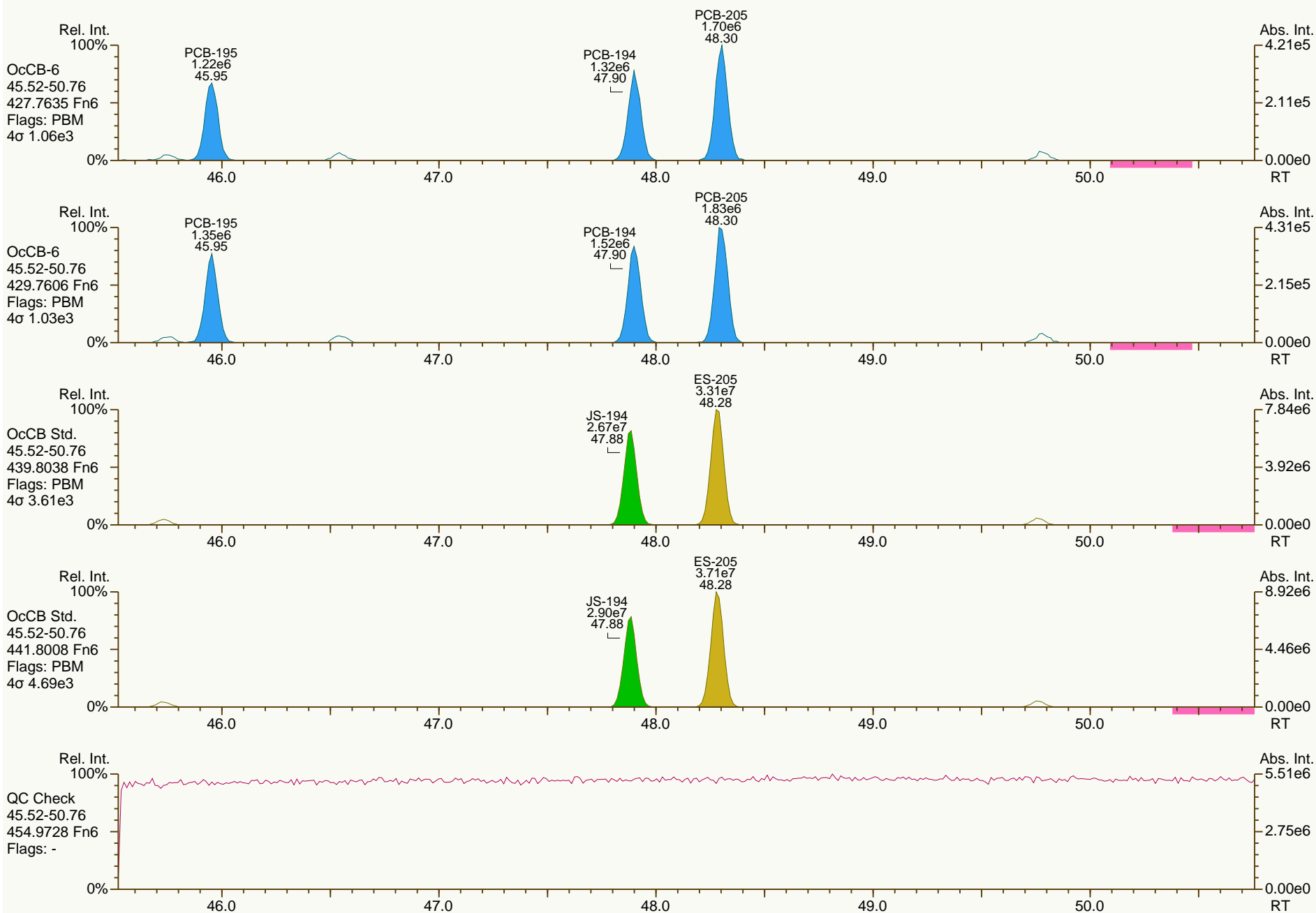




SGS-AP ID: CS2\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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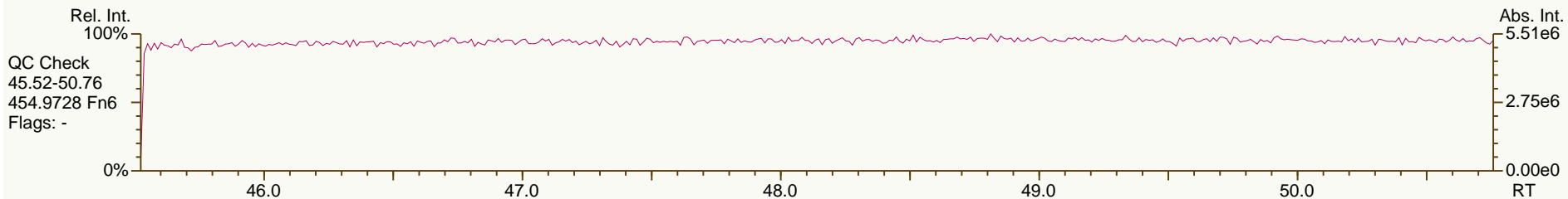
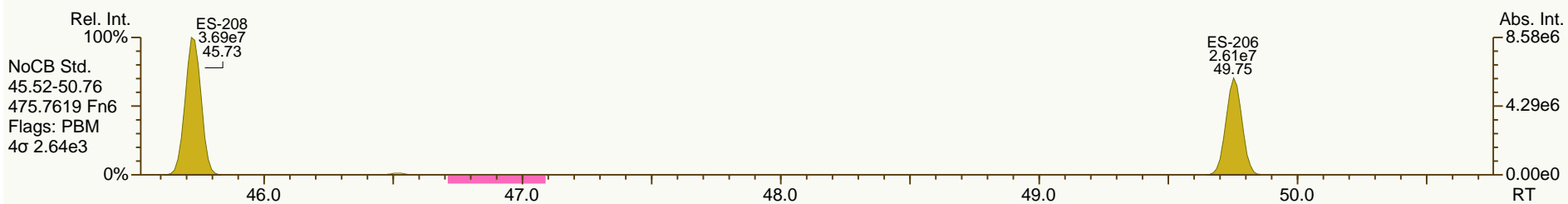
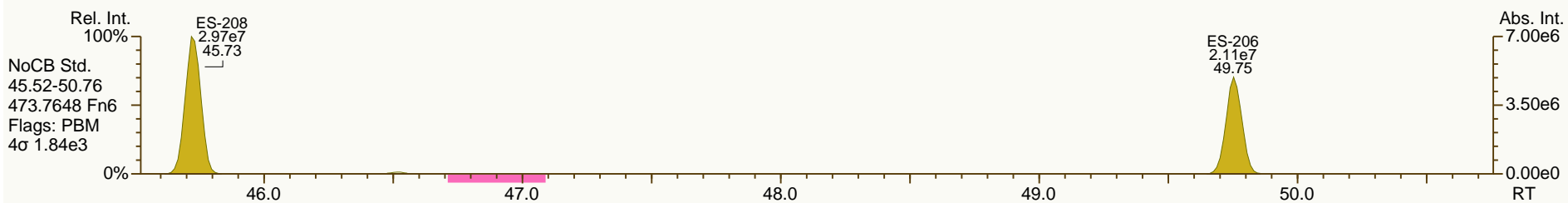
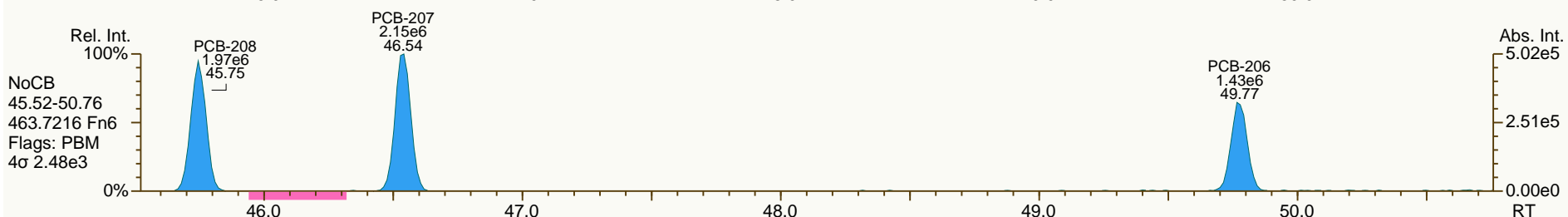
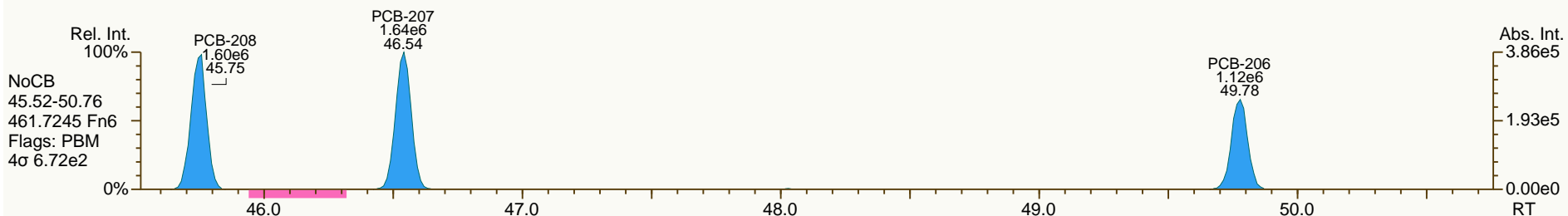
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
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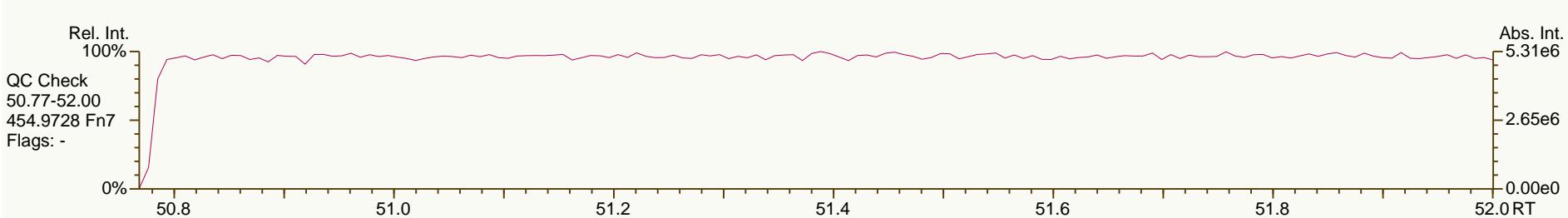
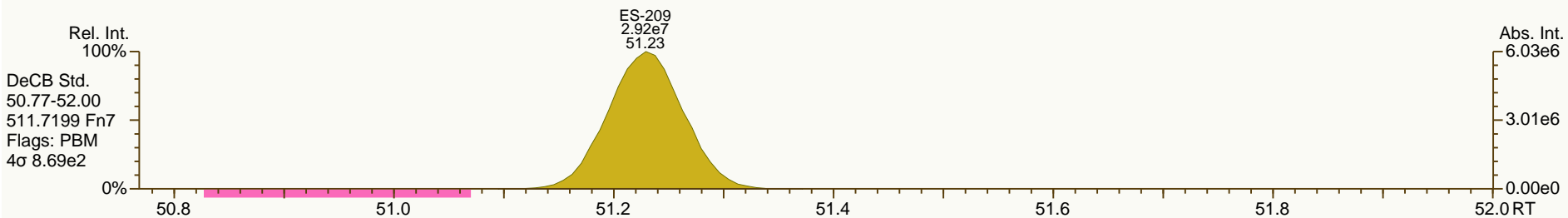
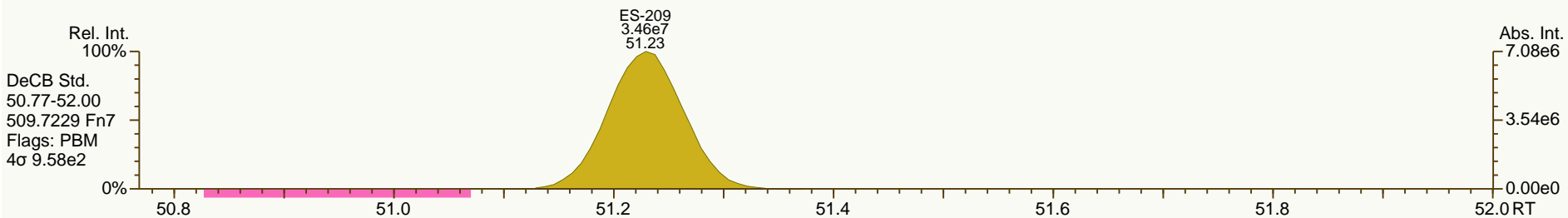
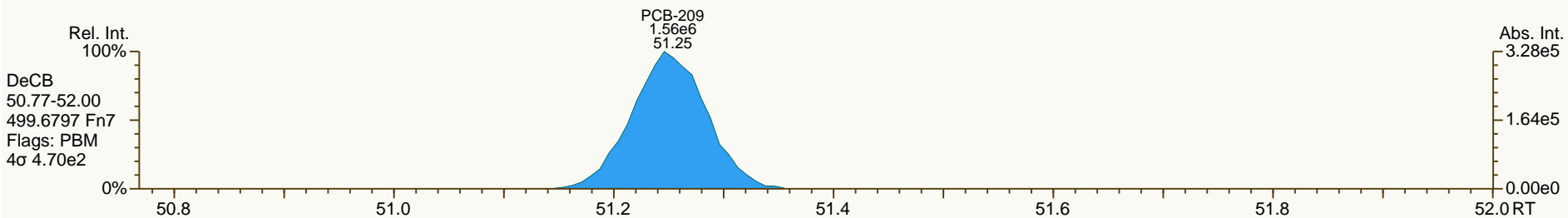
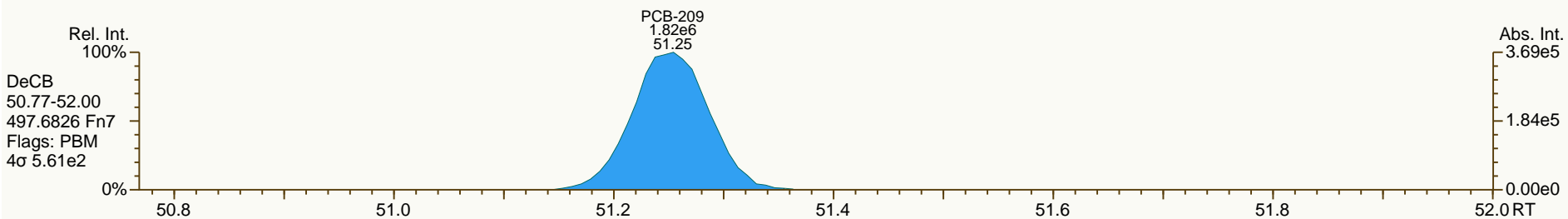
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SGS-AP ID: CS2\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-4  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 39

Acq: 20-Dec-2013 17:09:38  
 User: LKB Datafile: 131220X04



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57		
Lab ID:	CS3_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.72E+07	0.78 Y	1.15	1.14	-0.9%	
PCB-81 344'5'-TeCB	32.62	6.46E+07	0.78 Y	1.12	1.12	-0.2%	
PCB-105 233'44'-PeCB	36.09	5.36E+07	0.62 Y	1.11	1.13	1.3%	
PCB-114 2344'5'-PeCB	35.55	5.90E+07	0.63 Y	1.20	1.23	2.2%	
PCB-118 23'44'5'-PeCB	35.08	5.55E+07	0.62 Y	1.19	1.22	2.5%	
PCB-123 23'44'5'-PeCB	34.80	5.75E+07	0.62 Y	1.21	1.23	1.5%	
PCB-126 33'44'5'-PeCB	38.71	4.48E+07	0.62 Y	1.11	1.12	1.1%	
PCB-156/157 ...-HxCB	41.26	9.35E+07	1.23 Y	1.10	1.12	2.3%	
PCB-167 23'44'55'-HxCB	40.28	5.18E+07	1.21 Y	1.16	1.20	2.9%	
PCB-169 33'44'55'-HxCB	43.98	4.66E+07	1.24 Y	1.12	1.16	2.8%	
PCB-189 233'44'55'-HpCB	46.12	4.39E+07	1.04 Y	1.07	1.07	-0.2%	
PCB-209 DeCB	51.23	3.15E+07	1.18 Y	1.11	1.09	-2.1%	
ES PCB-1	12.02	2.19E+08	3.31 Y	1.19	1.18	-1.3%	
ES PCB-3	14.34	1.97E+08	3.36 Y	1.09	1.06	-2.5%	
ES PCB-4	14.60	9.59E+07	1.62 Y	0.52	0.52	-1.2%	
ES PCB-15	20.36	1.90E+08	1.57 Y	1.04	1.02	-1.9%	
ES PCB-19	17.72	9.32E+07	1.08 Y	0.51	0.50	-0.9%	
ES PCB-37	26.72	1.42E+08	1.09 Y	1.66	1.61	-2.9%	
ES PCB-54	20.65	7.49E+07	0.82 Y	0.86	0.85	-0.9%	
ES PCB-77	33.08	1.18E+08	0.79 Y	1.38	1.34	-2.9%	
ES PCB-81	32.60	1.16E+08	0.81 Y	1.37	1.32	-3.5%	
ES PCB-104	25.66	6.47E+07	1.68 Y	0.80	0.80	0.0%	
ES PCB-105	36.07	9.52E+07	1.57 Y	1.20	1.18	-1.7%	
ES PCB-114	35.53	9.60E+07	1.64 Y	1.22	1.19	-2.1%	
ES PCB-118	35.06	9.11E+07	1.63 Y	1.16	1.13	-2.4%	
ES PCB-123	34.78	9.36E+07	1.59 Y	1.19	1.16	-2.1%	
ES PCB-126	38.69	8.01E+07	1.60 Y	1.03	0.99	-3.2%	
ES PCB-153	36.65	5.89E+07	1.29 Y	1.11	1.10	-1.2%	
ES PCB-155	30.63	8.37E+07	1.30 Y	1.59	1.56	-1.6%	
ES PCB-156/157	41.24	1.67E+08	1.28 Y	1.60	1.56	-2.7%	
ES PCB-167	40.26	8.66E+07	1.28 Y	1.67	1.62	-3.0%	
ES PCB-169	43.96	8.06E+07	1.28 Y	1.56	1.51	-3.2%	
ES PCB-170	43.48	4.93E+07	1.09 Y	0.95	0.95	-0.1%	
ES PCB-180	42.41	5.80E+07	1.09 Y	1.14	1.11	-2.2%	
ES PCB-188	35.52	4.92E+07	1.11 Y	0.94	0.92	-2.1%	
ES PCB-189	46.10	8.18E+07	1.01 Y	1.58	1.57	-0.9%	
ES PCB-202	40.07	5.16E+07	0.93 Y	0.97	0.97	-0.5%	
ES PCB-205	48.27	6.45E+07	0.89 Y	1.24	1.24	-0.6%	
ES PCB-206	49.74	4.32E+07	0.80 Y	0.83	0.83	-0.1%	
ES PCB-208	45.71	6.09E+07	0.80 Y	1.17	1.17	-0.5%	
ES PCB-209	51.21	5.77E+07	1.21 Y	1.11	1.11	-0.3%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7						
Acquired:	20-DEC-2013 18:04							
Datafile:	131220X05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
SS PCB-28	23.15	1.59E+08	1.09 Y	1.11	1.12	1.0%		
SS PCB-111	33.09	9.83E+07	1.61 Y	1.03	1.05	2.1%		
SS PCB-178	38.09	3.00E+07	1.10 Y	0.62	0.61	-1.7%		
CS PCB-28	23.15	1.59E+08	1.09 Y	1.85	1.81	-1.8%		
CS PCB-111	33.09	9.83E+07	1.61 Y	1.22	1.22	0.0%		
CS PCB-178	38.09	3.00E+07	1.10 Y	0.58	0.56	-3.7%		
JS PCB-9	16.60	1.86E+08	1.55 Y	-	-	-		
JS PCB-52	24.78	8.78E+07	0.82 Y	-	-	-		
JS PCB-101	30.80	8.05E+07	1.58 Y	-	-	-		
JS PCB-138	37.72	5.35E+07	1.28 Y	-	-	-		
JS PCB-194	47.87	5.22E+07	0.91 Y	-	-	-		
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%		
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%		
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%		
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%		
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%		
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%		
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%		
PCB-104 22'466'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%		
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%		
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%		
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%		
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%		
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%		
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%		

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	1.06E+08	3.22 Y	0.95	0.97	1.7%	
PCB-2 3-MoCB	14.17	1.07E+08	3.26 Y	1.03	1.08	4.8%	
PCB-3 4-MoCB	14.36	1.02E+08	3.25 Y	1.01	1.04	2.8%	
PCB-4 22'-DiCB	14.62	6.07E+07	1.59 Y	1.23	1.27	2.7%	
PCB-10 26'-DiCB	14.80	9.81E+07	1.61 Y	1.98	2.05	3.2%	
PCB-9 25'-DiCB	16.62	9.11E+07	1.64 Y	0.95	0.96	1.6%	
PCB-7 24'-DiCB	16.78	1.03E+08	1.63 Y	1.05	1.09	4.1%	
PCB-6 23'-DiCB	17.01	9.79E+07	1.63 Y	1.00	1.03	3.6%	
PCB-5 23'-DiCB	17.32	9.70E+07	1.62 Y	1.00	1.02	2.0%	
PCB-8 24'-DiCB	17.44	9.83E+07	1.64 Y	1.03	1.04	0.3%	
PCB-14 35'-DiCB	19.01	1.14E+08	1.62 Y	1.18	1.20	1.9%	
PCB-11 33'-DiCB	19.80	9.79E+07	1.64 Y	1.01	1.03	2.0%	
PCB-13/12 34'/34'-DiCB	20.09	1.94E+08	1.63 Y	0.99	1.02	3.1%	
PCB-15 44'-DiCB	20.38	9.79E+07	1.64 Y	1.02	1.03	1.2%	
PCB-19 22'6'-TrCB	17.73	5.43E+07	1.06 Y	1.15	1.17	1.5%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.46E+08	1.05 Y	1.54	1.57	1.9%	
PCB-17 22'4'-TrCB	19.91	6.21E+07	1.05 Y	1.31	1.33	2.2%	
PCB-27 23'6'-TrCB	20.11	8.52E+07	1.06 Y	1.82	1.83	0.7%	
PCB-24 236'-TrCB	20.24	8.13E+07	1.04 Y	1.72	1.74	1.2%	
PCB-16 22'3'-TrCB	20.34	4.64E+07	1.06 Y	1.01	1.00	-1.0%	
PCB-32 24'6'-TrCB	20.82	8.97E+07	1.06 Y	1.92	1.93	0.3%	
PCB-34 23'5'-TrCB	21.98	8.15E+07	0.99 Y	1.14	1.15	1.4%	
PCB-23 235'-TrCB	22.13	8.33E+07	0.99 Y	1.16	1.18	1.8%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.69E+08	0.99 Y	1.17	1.20	2.1%	
PCB-25 23'4'-TrCB	22.61	8.39E+07	0.98 Y	1.16	1.18	2.3%	
PCB-31 24'5'-TrCB	22.89	8.91E+07	0.99 Y	1.23	1.26	2.6%	
PCB-28/20 244'/233'-TrCB	23.18	1.65E+08	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.36	1.71E+08	0.97 Y	1.17	1.21	2.8%	
PCB-22 234'-TrCB	23.74	7.72E+07	0.98 Y	1.08	1.09	0.9%	
PCB-36 33'5'-TrCB	25.13	8.43E+07	0.99 Y	1.17	1.19	1.6%	
PCB-39 34'5'-TrCB	25.45	8.82E+07	0.99 Y	1.21	1.24	2.8%	
PCB-38 345'-TrCB	25.99	8.09E+07	0.99 Y	1.10	1.14	3.4%	
PCB-35 33'4'-TrCB	26.38	7.62E+07	0.99 Y	1.04	1.08	3.5%	
PCB-37 344'-TrCB	26.74	7.81E+07	0.99 Y	1.08	1.10	2.2%	
PCB-54 22'66'-TeCB	20.67	5.09E+07	0.82 Y	1.35	1.36	0.6%	
PCB-50/53 22'46'/22'56'-TeCB	22.67	1.04E+08	0.79 Y	0.88	0.90	2.6%	
PCB-45 22'36'-TeCB	23.26	4.29E+07	0.78 Y	0.77	0.74	-3.3%	
PCB-51 22'46'-TeCB	23.33	5.41E+07	0.79 Y	0.86	0.93	8.7%	
PCB-46 22'36'-TeCB	23.54	4.19E+07	0.78 Y	0.70	0.72	3.5%	
PCB-52 22'55'-TeCB	24.80	4.97E+07	0.79 Y	0.84	0.86	1.6%	
PCB-73 23'5'6'-TeCB	24.93	6.50E+07	0.79 Y	1.11	1.12	0.9%	
PCB-43 22'35'-TeCB	25.03	4.44E+07	0.79 Y	0.71	0.77	7.9%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.22E+08	0.79 Y	1.02	1.05	3.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA			ICAL: 131220 QC MM7			
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.51	5.03E+07	0.79 Y	0.84	0.87	3.5%	
PCB-44/47/65 ...-TeCB	25.73	1.61E+08	0.79 Y	0.90	0.93	2.8%	
PCB-59/62/75 ...-TeCB	26.01	2.11E+08	0.79 Y	1.17	1.21	4.0%	
PCB-42 22'34'-TeCB	26.17	4.56E+07	0.79 Y	0.76	0.79	3.2%	
PCB-41 22'34'-TeCB	26.51	4.24E+07	0.78 Y	0.69	0.73	5.4%	
PCB-71/40 23'4'6/22'33'-TeCB	26.60	1.01E+08	0.80 Y	0.86	0.87	1.7%	
PCB-64 23'4'6'-TeCB	26.80	7.33E+07	0.79 Y	1.22	1.27	3.7%	
PCB-72 23'55'-TeCB	27.52	7.21E+07	0.77 Y	1.21	1.25	3.0%	
PCB-68 23'45'-TeCB	27.78	7.57E+07	0.79 Y	1.28	1.31	2.4%	
PCB-57 23'35'-TeCB	28.15	6.97E+07	0.78 Y	1.16	1.20	3.4%	
PCB-58 23'35'-TeCB	28.35	6.93E+07	0.79 Y	1.18	1.20	1.6%	
PCB-67 23'45'-TeCB	28.51	7.46E+07	0.78 Y	1.26	1.29	2.3%	
PCB-63 23'45'-TeCB	28.74	7.70E+07	0.78 Y	1.30	1.33	2.5%	
PCB-61/70/74/76 ...-TeCB	29.03	2.84E+08	0.78 Y	1.20	1.23	2.3%	
PCB-66 23'44'-TeCB	29.32	6.58E+07	0.78 Y	1.10	1.14	3.1%	
PCB-55 23'34'-TeCB	29.46	6.61E+07	0.78 Y	1.12	1.14	1.9%	
PCB-56 23'34'-TeCB	29.90	6.57E+07	0.78 Y	1.11	1.13	2.2%	
PCB-60 23'44'-TeCB	30.09	6.65E+07	0.78 Y	1.14	1.15	1.2%	
PCB-80 33'55'-TeCB	30.42	7.84E+07	0.79 Y	1.31	1.35	3.1%	
PCB-79 33'45'-TeCB	31.75	7.58E+07	0.78 Y	1.31	1.31	0.3%	
PCB-78 33'45'-TeCB	32.24	6.37E+07	0.79 Y	1.06	1.10	3.6%	
PCB-104 22'46'6'-PeCB	25.68	4.68E+07	0.64 Y	1.43	1.45	0.9%	
PCB-96 22'36'6'-PeCB	26.00	4.07E+07	0.65 Y	1.23	1.26	2.3%	
PCB-103 22'45'6'-PeCB	27.69	4.49E+07	0.62 Y	0.93	0.96	3.1%	
PCB-94 22'35'6'-PeCB	27.89	3.89E+07	0.62 Y	0.80	0.83	3.9%	
PCB-95 22'35'6'-PeCB	28.27	4.15E+07	0.62 Y	0.87	0.89	2.5%	
PCB-100/93 22'44'6/22'35'6'-PeCB	28.48	8.23E+07	0.62 Y	0.86	0.88	1.9%	
PCB-102 22'45'6'-PeCB	28.59	4.80E+07	0.62 Y	0.97	1.03	6.0%	
PCB-98 22'34'6'-PeCB	28.66	3.74E+07	0.62 Y	0.76	0.80	5.5%	
PCB-88 22'34'6'-PeCB	28.96	3.48E+07	0.61 Y	0.80	0.74	-6.9%	
PCB-91 22'34'6'-PeCB	29.03	4.85E+07	0.62 Y	0.94	1.04	9.9%	
PCB-84 22'33'6'-PeCB	29.22	3.51E+07	0.62 Y	0.72	0.75	4.8%	
PCB-89 22'34'6'-PeCB	29.64	3.72E+07	0.61 Y	0.76	0.80	4.3%	
PCB-121 23'45'6'-PeCB	29.99	5.76E+07	0.62 Y	1.20	1.23	2.6%	
PCB-92 22'35'5'-PeCB	30.31	3.91E+07	0.61 Y	0.82	0.84	1.9%	
PCB-113/90/101 ...-PeCB	30.79	1.40E+08	0.62 Y	0.99	1.00	1.0%	
PCB-83 22'33'5'-PeCB	31.23	3.39E+07	0.62 Y	0.71	0.72	1.2%	
PCB-99 22'44'5'-PeCB	31.33	4.26E+07	0.62 Y	0.92	0.91	-1.2%	
PCB-112 23'3'5'6'-PeCB	31.43	5.82E+07	0.62 Y	1.17	1.24	6.6%	
PCB-108/119/86/97/125...-PeCB	31.78	2.85E+08	0.62 Y	0.98	1.01	3.6%	
PCB-117 23'4'5'6'-PeCB	32.31	5.48E+07	0.62 Y	1.14	1.17	2.9%	
PCB-116/85 23'45'6/22'34'4'-PeCB	32.41	8.79E+07	0.63 Y	0.94	0.94	-0.1%	
PCB-110 23'3'4'6'-PeCB	32.52	5.86E+07	0.62 Y	1.12	1.25	12.0%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.61	5.15E+07	0.62 Y	1.16	1.10	-5.0%	
PCB-82 22'33'4-PeCB	32.80	3.29E+07	0.62 Y	0.70	0.70	0.8%	
PCB-111 233'55'-PeCB	33.12	5.86E+07	0.62 Y	1.22	1.25	2.6%	
PCB-120 23'455'-PeCB	33.52	5.80E+07	0.62 Y	1.21	1.24	2.4%	
PCB-107/124 ...-PeCB	34.49	1.06E+08	0.62 Y	1.10	1.14	3.4%	
PCB-109 233'46-PeCB	34.69	6.23E+07	0.62 Y	1.25	1.33	6.3%	
PCB-106 233'45-PeCB	34.91	5.24E+07	0.62 Y	1.11	1.12	1.3%	
PCB-122 233'4'5'-PeCB	35.38	4.86E+07	0.62 Y	0.99	1.01	1.9%	
PCB-127 33'455'-PeCB	37.33	5.29E+07	0.62 Y	1.10	1.11	1.5%	
PCB-155 22'44'66'-HxCB	30.65	5.34E+07	1.27 Y	1.26	1.27	1.2%	
PCB-152 22'3566'-HxCB	30.81	4.87E+07	1.29 Y	1.17	1.16	-0.8%	
PCB-150 22'34'66'-HxCB	30.96	5.03E+07	1.27 Y	1.18	1.20	2.2%	
PCB-136 22'33'66'-HxCB	31.26	4.58E+07	1.28 Y	1.07	1.09	2.6%	
PCB-145 22'3466'-HxCB	31.53	4.68E+07	1.28 Y	1.11	1.12	0.3%	
PCB-148 22'34'56'-HxCB	32.81	3.50E+07	1.29 Y	1.18	1.19	0.6%	
PCB-151/135 ...-HxCB	33.33	6.71E+07	1.28 Y	1.14	1.14	0.1%	
PCB-154 22'44'56'-HxCB	33.54	3.92E+07	1.27 Y	1.34	1.33	-0.9%	
PCB-144 22'345'6-HxCB	33.80	3.50E+07	1.28 Y	1.18	1.19	0.5%	
PCB-147/149 ...-HxCB	34.11	6.95E+07	1.26 Y	1.18	1.18	0.4%	
PCB-134 22'33'56-HxCB	34.28	2.62E+07	1.29 Y	0.92	0.89	-3.9%	
PCB-143 22'3456'-HxCB	34.36	3.47E+07	1.29 Y	1.13	1.18	4.3%	
PCB-139/140 ...-HxCB	34.63	7.06E+07	1.29 Y	1.21	1.20	-0.5%	
PCB-131 22'33'46-HxCB	34.80	3.02E+07	1.28 Y	1.03	1.03	0.0%	
PCB-142 22'3456-HxCB	34.95	2.97E+07	1.27 Y	0.99	1.01	1.8%	
PCB-132 22'33'46'-HxCB	35.18	3.05E+07	1.29 Y	1.03	1.03	0.4%	
PCB-133 22'33'55'-HxCB	35.59	3.33E+07	1.27 Y	1.13	1.13	-0.2%	
PCB-165 233'55'6-HxCB	35.93	4.19E+07	1.29 Y	1.41	1.42	1.0%	
PCB-146 22'34'55'-HxCB	36.14	3.49E+07	1.26 Y	1.20	1.19	-1.3%	
PCB-161 233'45'6-HxCB	36.26	4.54E+07	1.29 Y	1.52	1.54	1.3%	
PCB-153/168 ...-HxCB	36.69	8.69E+07	1.27 Y	1.46	1.48	1.3%	
PCB-141 22'3455'-HxCB	36.84	3.24E+07	1.26 Y	1.09	1.10	1.2%	
PCB-130 22'33'45'-HxCB	37.18	2.87E+07	1.26 Y	0.97	0.97	0.2%	
PCB-137 22'344'5-HxCB	37.38	3.23E+07	1.26 Y	1.16	1.10	-5.5%	
PCB-164 233'4'5'6-HxCB	37.46	4.64E+07	1.27 Y	1.50	1.58	5.2%	
PCB-163/138/129 ...-HxCB	37.76	1.04E+08	1.27 Y	1.19	1.17	-1.4%	
PCB-160 233'456-HxCB	37.89	4.57E+07	1.27 Y	1.52	1.55	2.4%	
PCB-158 233'44'6-HxCB	38.08	4.80E+07	1.29 Y	1.66	1.63	-1.8%	
PCB-128/166 ...-HxCB	38.81	7.91E+07	1.23 Y	0.90	0.91	1.5%	
PCB-159 233'455'-HxCB	39.63	4.91E+07	1.23 Y	1.11	1.13	1.7%	
PCB-162 233'4'55'-HxCB	39.87	4.82E+07	1.22 Y	1.07	1.11	3.8%	
PCB-188 22'34'566'-HpCB	35.54	3.10E+07	1.06 Y	1.27	1.26	-0.6%	
PCB-179 22'33'566'-HpCB	35.82	2.89E+07	1.08 Y	1.16	1.17	0.9%	
PCB-184 22'344'66'-HpCB	36.29	2.78E+07	1.09 Y	1.13	1.13	0.2%	

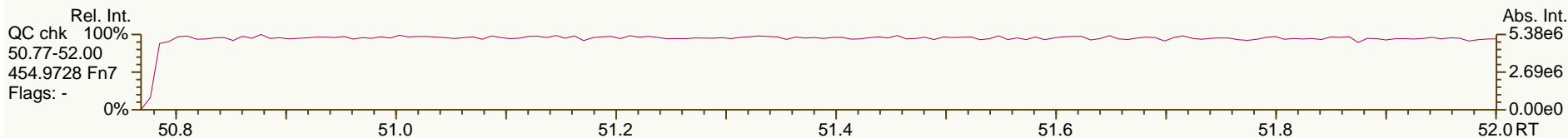
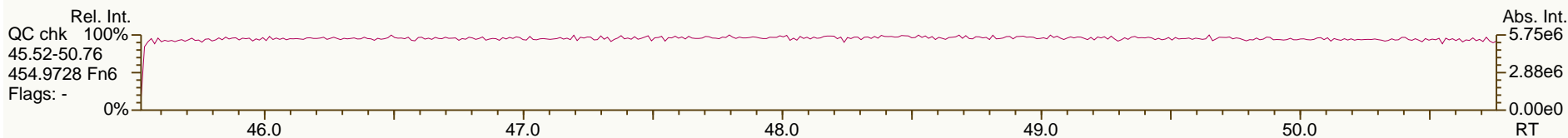
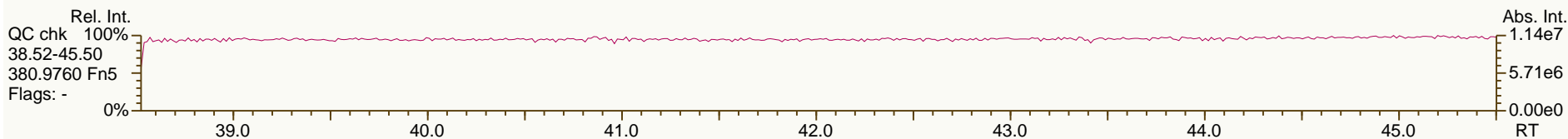
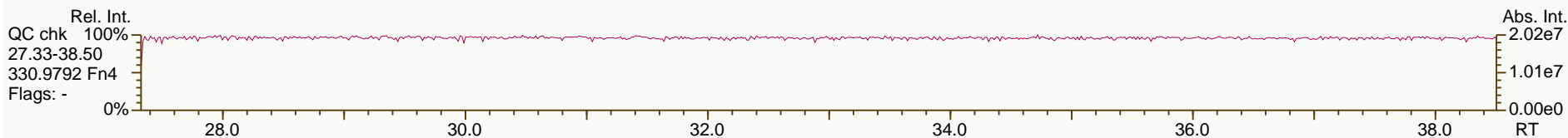
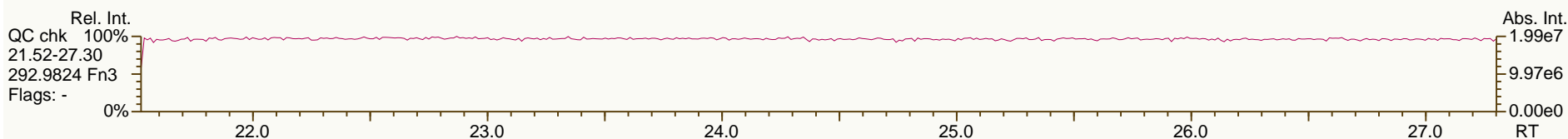
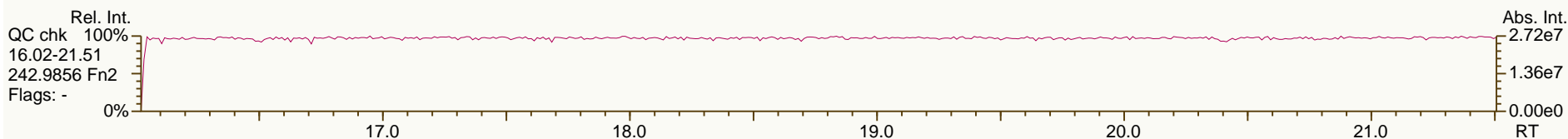
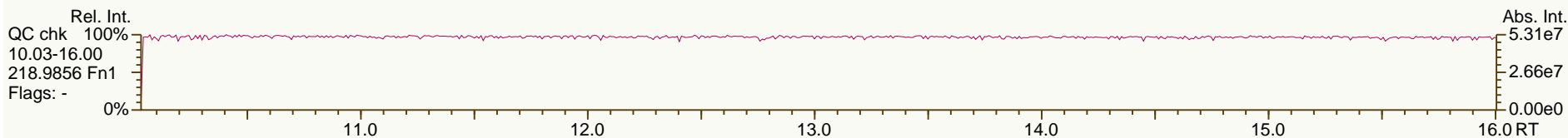


PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:57			
Lab ID:	CS3_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:04						
Datafile:	131220X05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.58	3.08E+07	1.08 Y	1.23	1.25	1.6%	
PCB-186 22'34566'-HpCB	36.98	2.82E+07	1.09 Y	1.13	1.14	1.7%	
PCB-178 22'33'55'6'-HpCB	38.11	2.06E+07	1.08 Y	0.84	0.84	-0.7%	
PCB-175 22'33'45'6'-HpCB	38.66	3.12E+07	1.07 Y	1.07	1.08	0.3%	
PCB-187 22'34'55'6'-HpCB	38.89	3.32E+07	1.07 Y	1.14	1.15	0.7%	
PCB-182 22'344'56'-HpCB	39.07	3.55E+07	1.06 Y	1.18	1.22	4.2%	
PCB-183 22'344'5'6'-HpCB	39.42	3.70E+07	1.06 Y	1.20	1.28	6.0%	
PCB-185 22'3455'6'-HpCB	39.50	2.99E+07	1.07 Y	1.06	1.03	-2.8%	
PCB-174 22'33'456'-HpCB	39.61	2.90E+07	1.06 Y	0.99	1.00	1.1%	
PCB-177 22'33'45'6'-HpCB	39.98	2.76E+07	1.06 Y	0.95	0.95	0.0%	
PCB-181 22'344'56'-HpCB	40.33	3.21E+07	1.05 Y	1.09	1.11	1.7%	
PCB-171/173 ...-HpCB	40.52	5.60E+07	1.05 Y	0.95	0.97	1.8%	
PCB-172 22'33'455'-HpCB	41.87	2.94E+07	1.05 Y	0.99	1.02	2.7%	
PCB-192 233'455'6'-HpCB	42.12	3.83E+07	1.07 Y	1.29	1.32	2.5%	
PCB-180/193 ...-HpCB	42.39	7.38E+07	1.06 Y	1.26	1.27	1.0%	
PCB-191 233'44'5'6'-HpCB	42.73	4.06E+07	1.08 Y	1.40	1.40	0.4%	
PCB-170 22'33'44'5'-HpCB	43.50	2.83E+07	1.08 Y	1.14	1.15	1.0%	
PCB-190 233'44'56'-HpCB	43.95	4.10E+07	1.05 Y	1.66	1.66	0.2%	
PCB-202 22'33'55'66'-OcCB	40.09	2.75E+07	0.92 Y	1.05	1.06	1.0%	
PCB-201 22'33'45'66'-OcCB	40.88	3.19E+07	0.91 Y	1.22	1.24	1.2%	
PCB-204 22'344'566'-OcCB	41.46	2.88E+07	0.93 Y	1.12	1.12	0.0%	
PCB-197 22'33'44'66'-OcCB	41.65	2.98E+07	0.91 Y	1.19	1.15	-3.2%	
PCB-200 22'33'4566'-OcCB	41.73	3.01E+07	0.93 Y	1.11	1.16	5.1%	
PCB-198/199 ...-OcCB	44.06	4.14E+07	0.91 Y	0.81	0.80	-0.8%	
PCB-196 22'33'44'56'-OcCB	44.64	2.18E+07	0.91 Y	0.83	0.84	1.1%	
PCB-203 22'344'55'6'-OcCB	44.81	2.26E+07	0.91 Y	0.87	0.88	0.2%	
PCB-195 22'33'44'56'-OcCB	45.94	2.41E+07	0.93 Y	0.77	0.75	-2.5%	
PCB-194 22'33'44'55'-OcCB	47.89	2.69E+07	0.91 Y	0.84	0.84	-0.9%	
PCB-205 233'44'55'6'-OcCB	48.28	3.40E+07	0.92 Y	1.06	1.06	-0.5%	
PCB-208 22'33'455'66'-NoCB	45.73	3.44E+07	0.77 Y	1.12	1.13	0.6%	
PCB-207 22'33'44'566'-NoCB	46.52	3.65E+07	0.78 Y	1.19	1.20	0.7%	
PCB-206 22'33'44'55'6'-NoCB	49.76	2.40E+07	0.79 Y	1.11	1.11	-0.3%	

SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

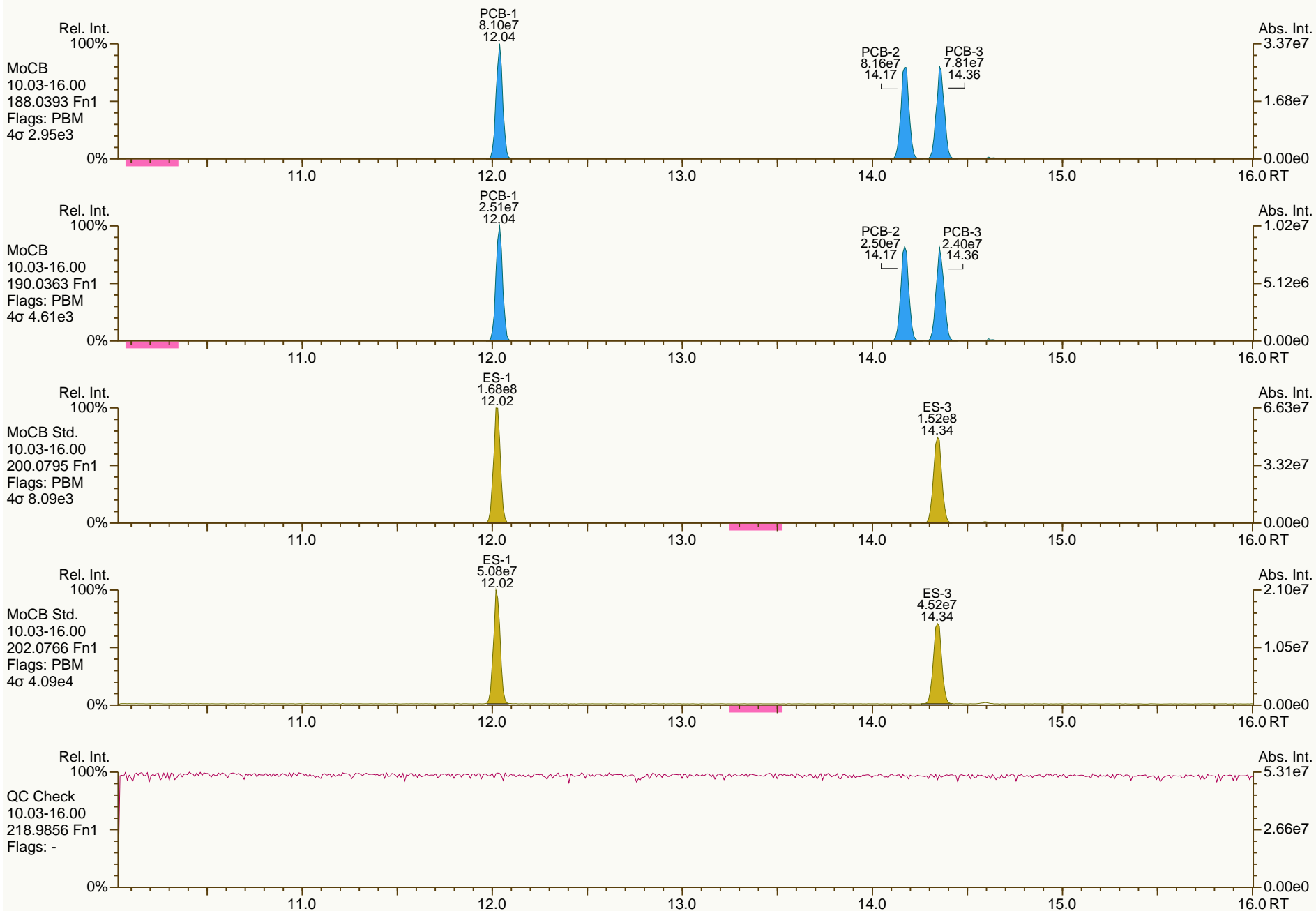
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SGS-AP ID: CS3\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

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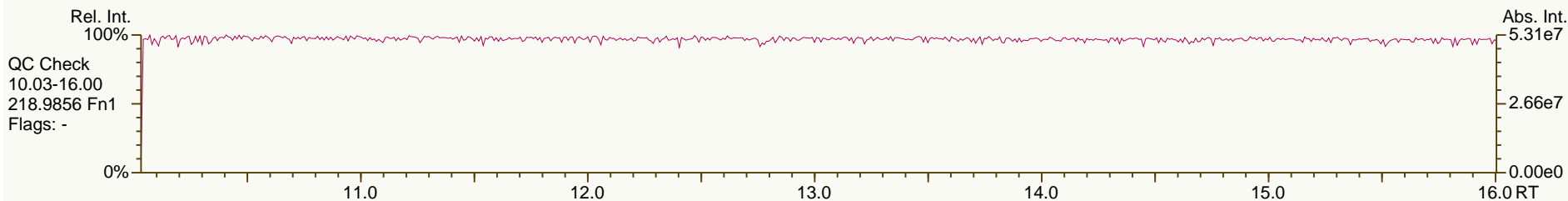
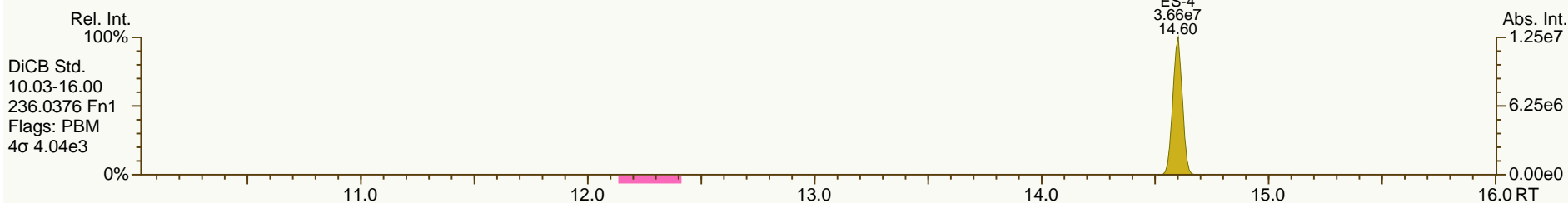
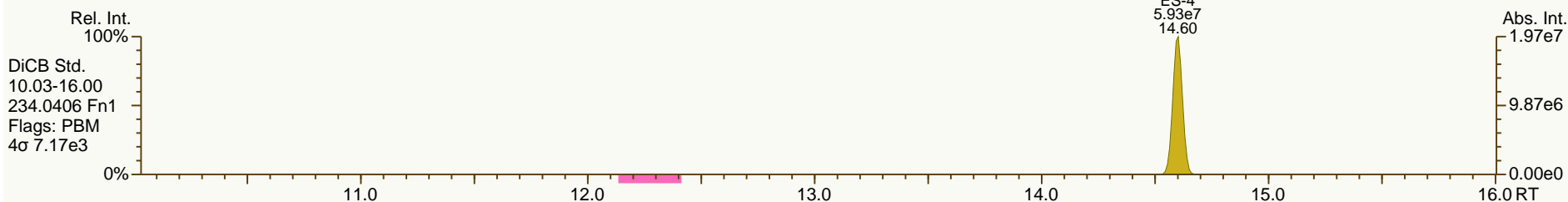
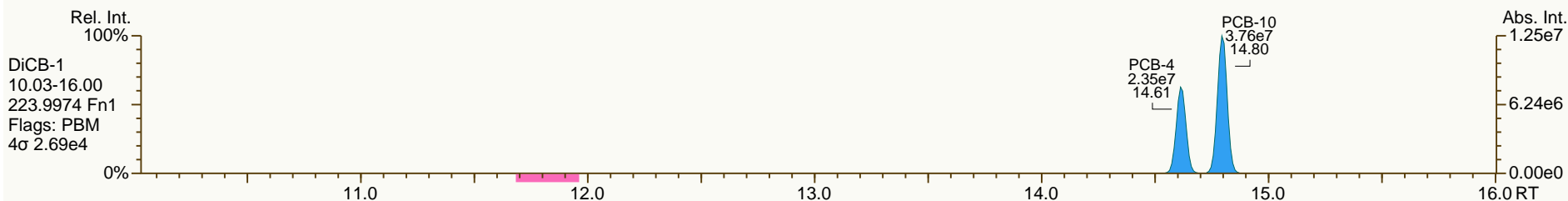
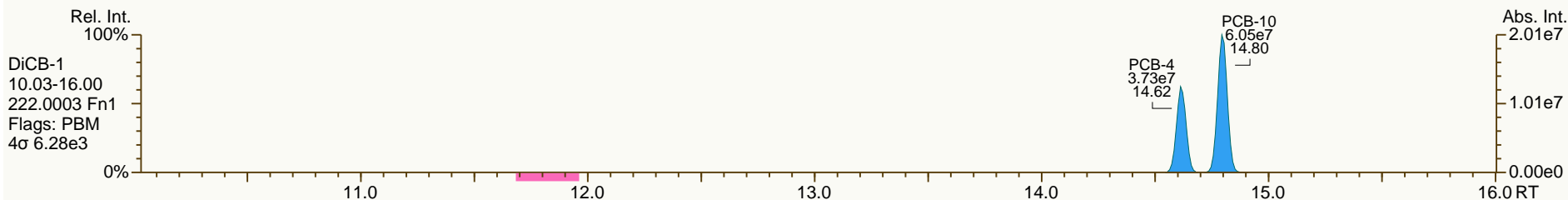
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SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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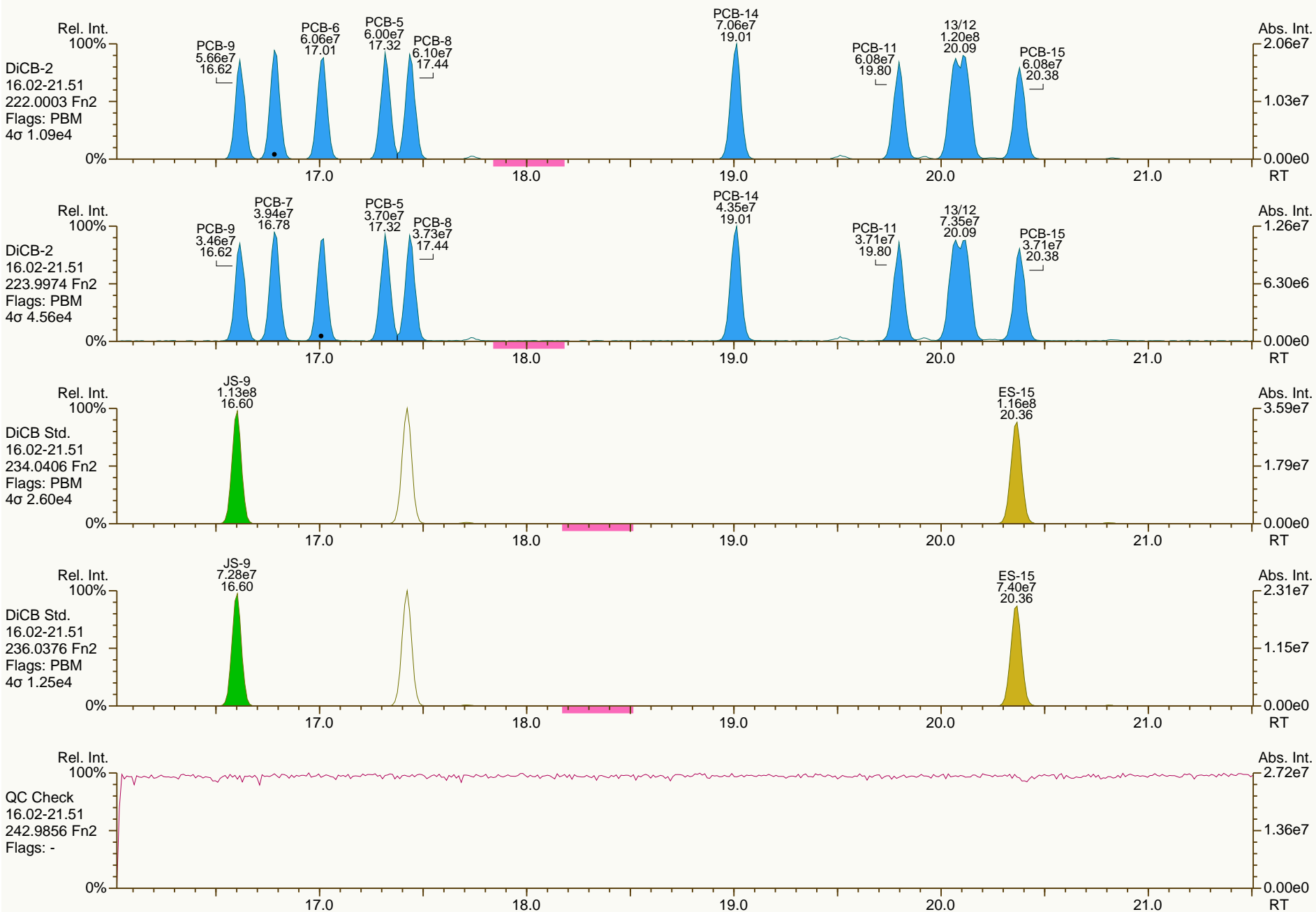
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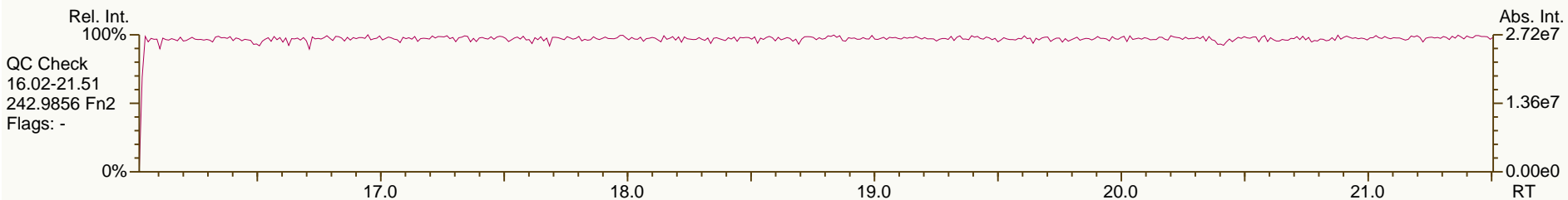
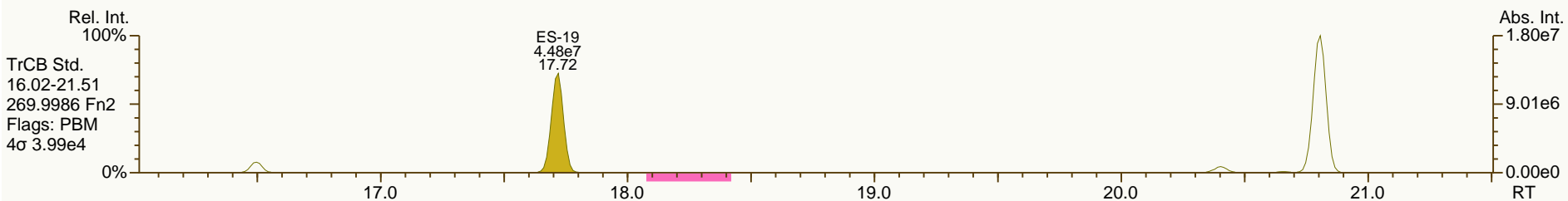
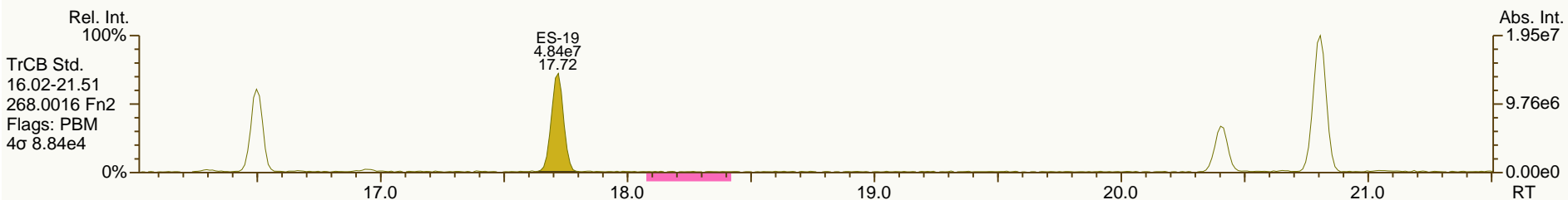
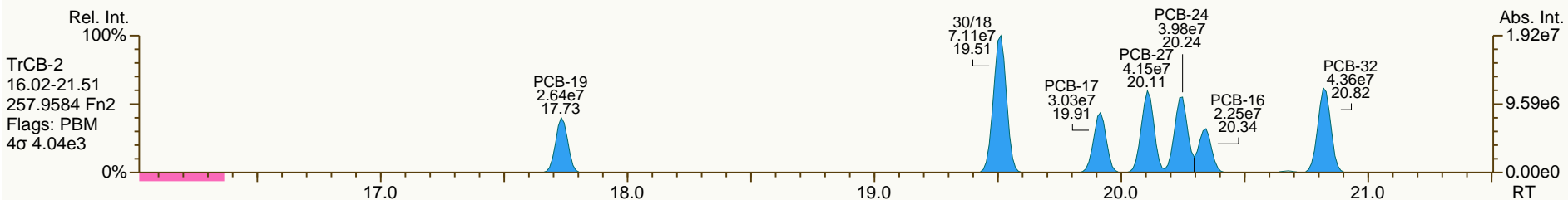
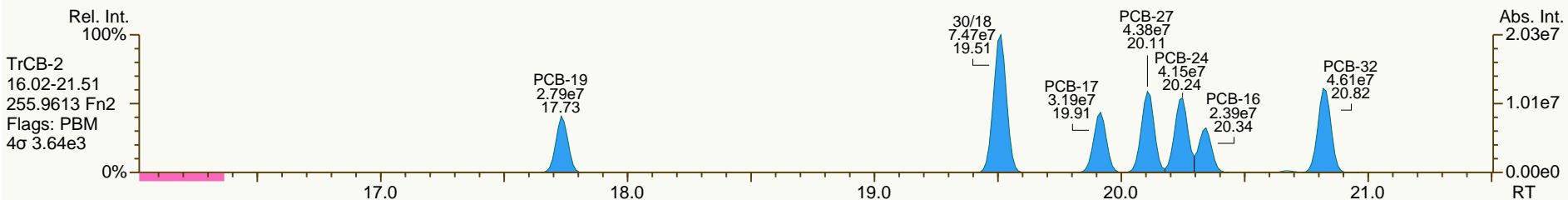
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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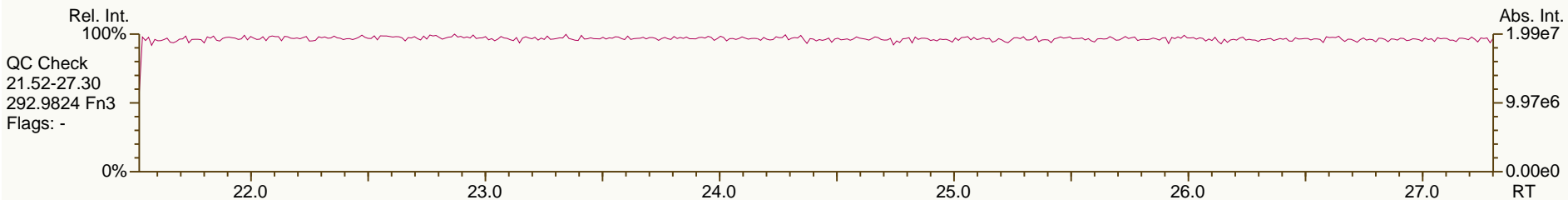
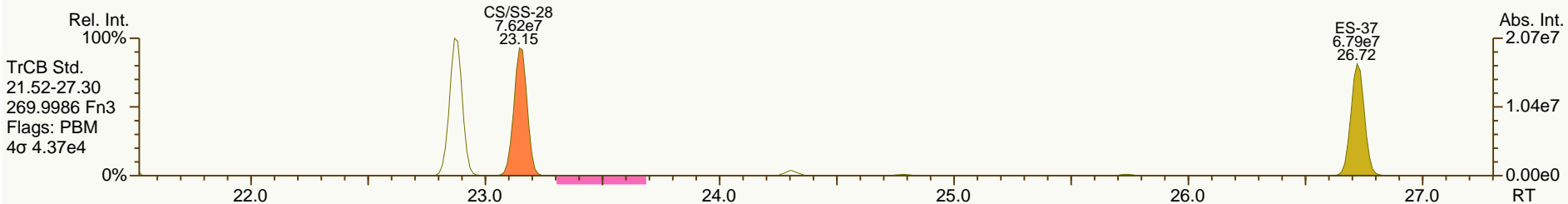
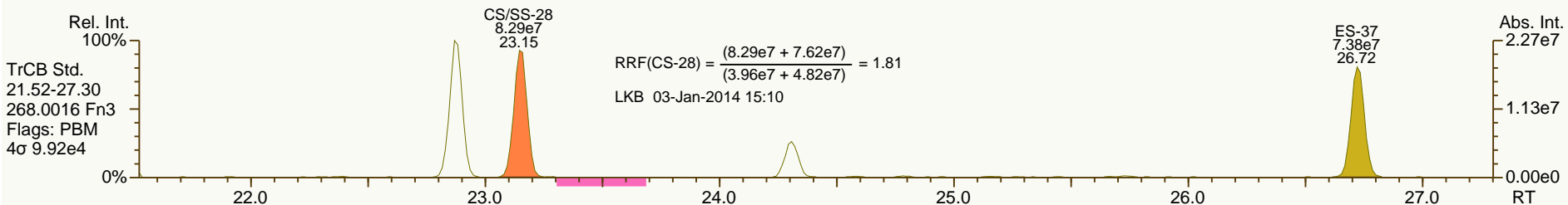
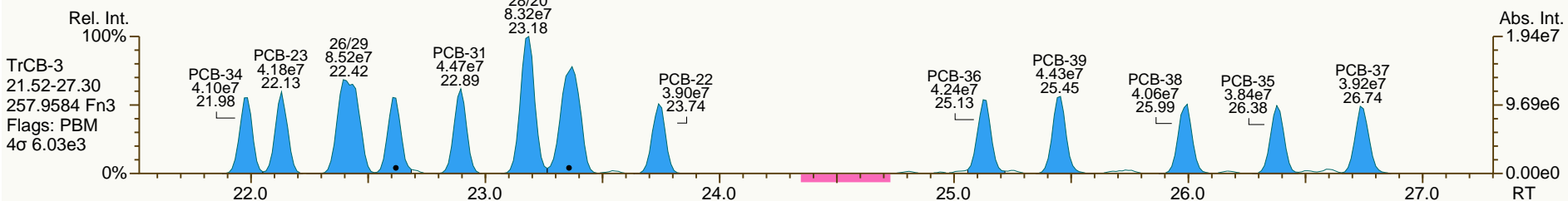
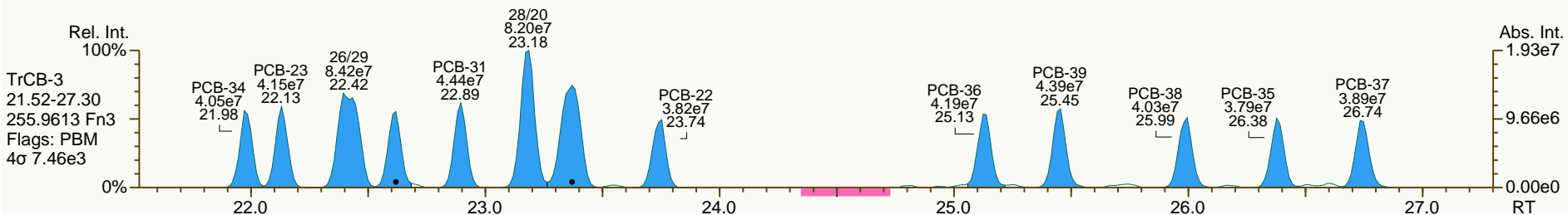
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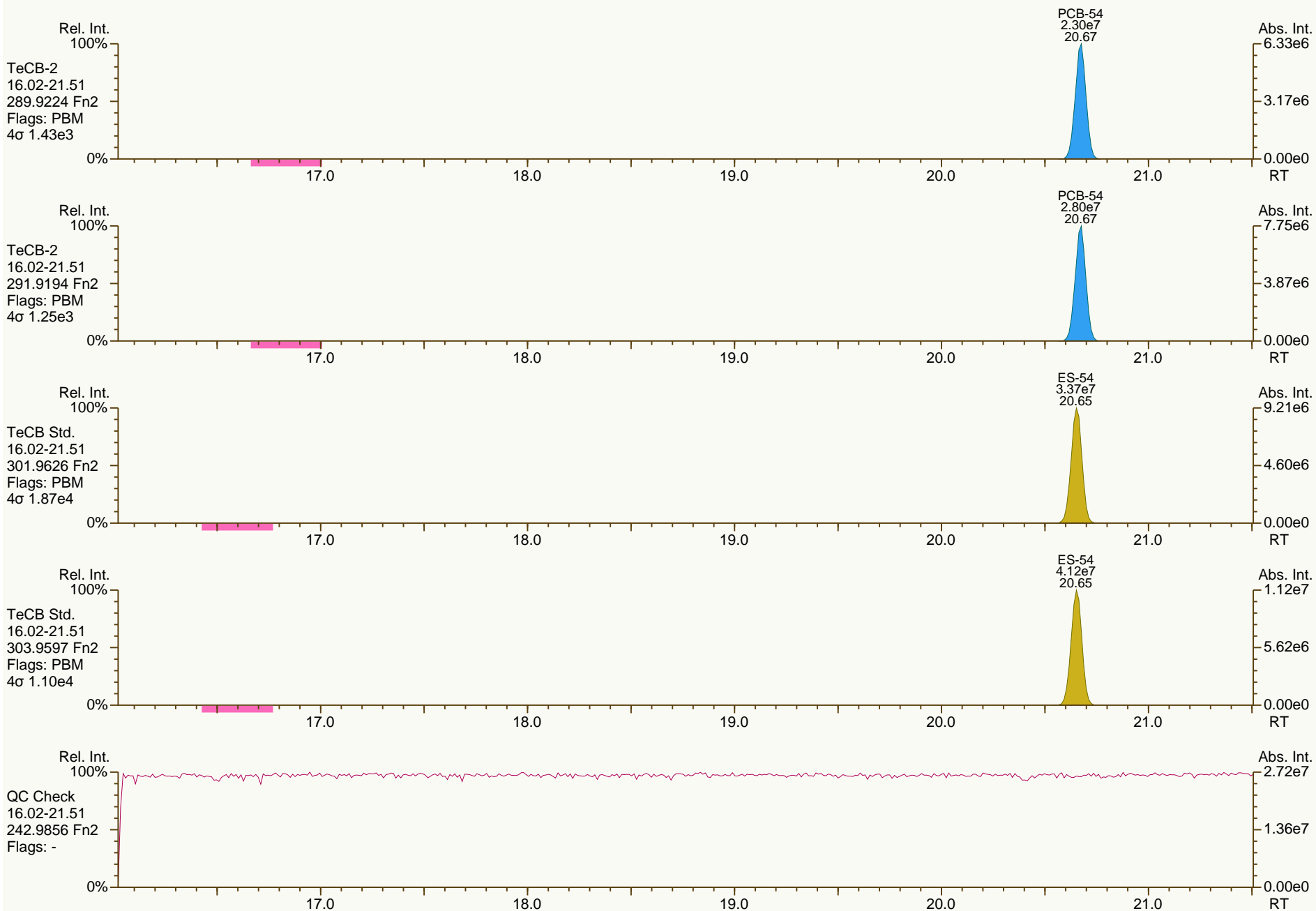
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Sample ID: SIL 13-79-3  
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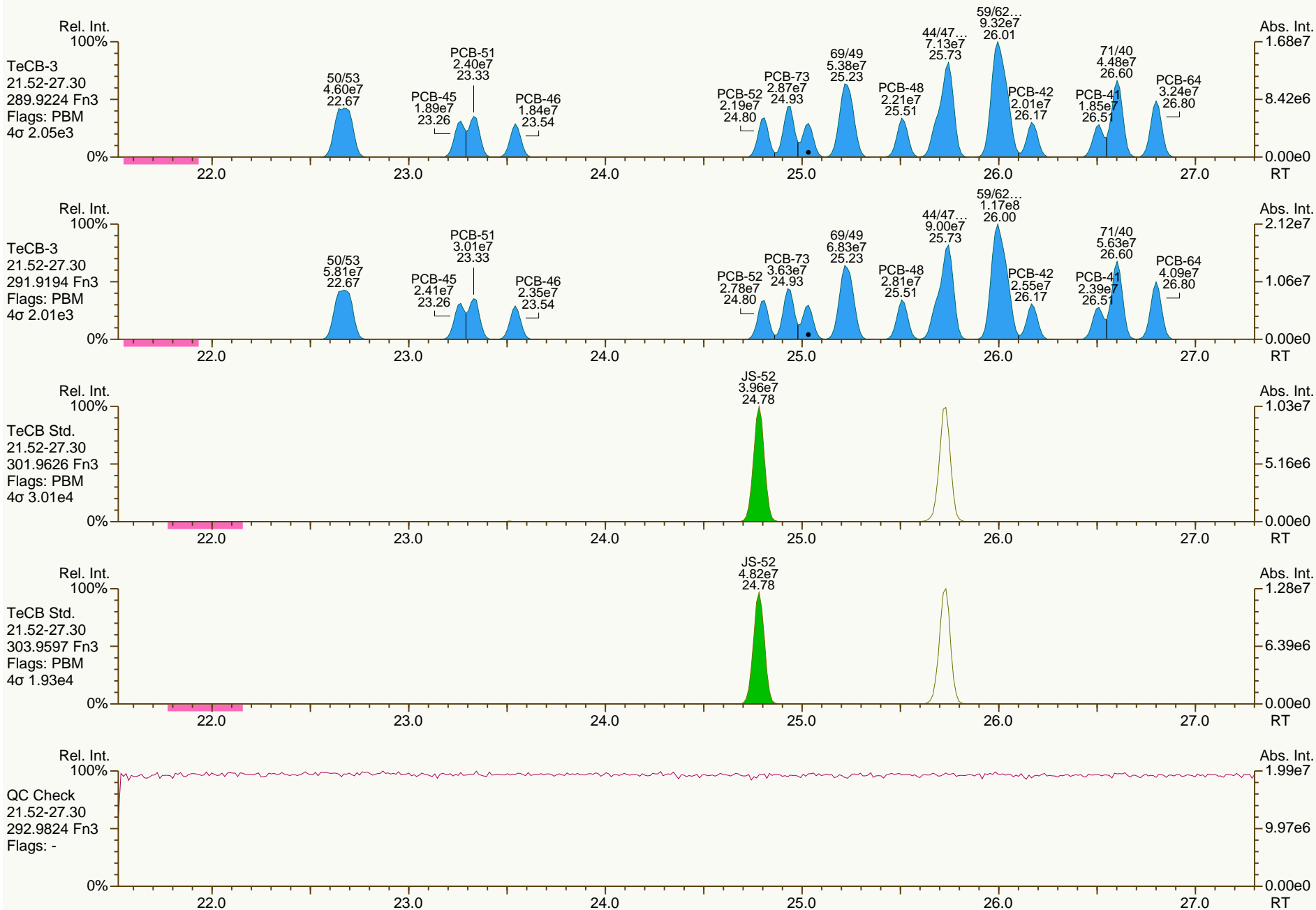




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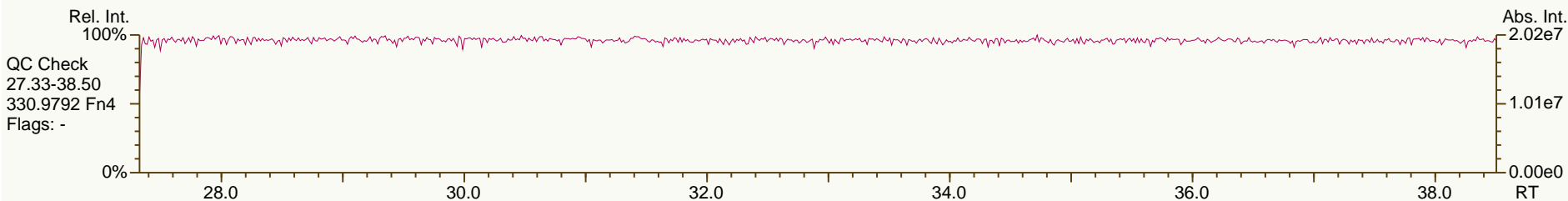
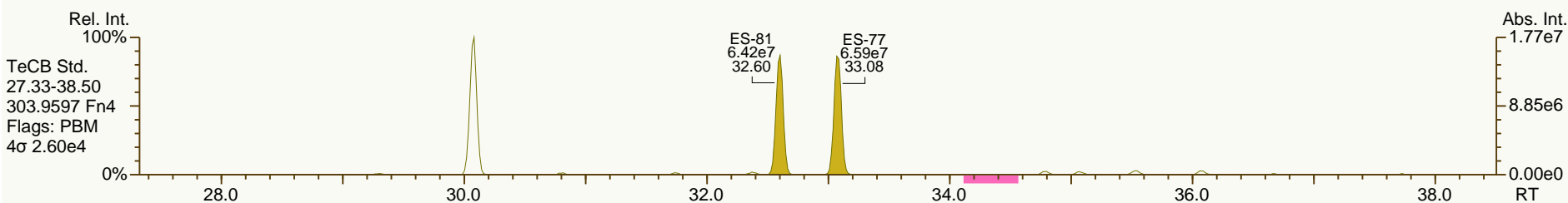
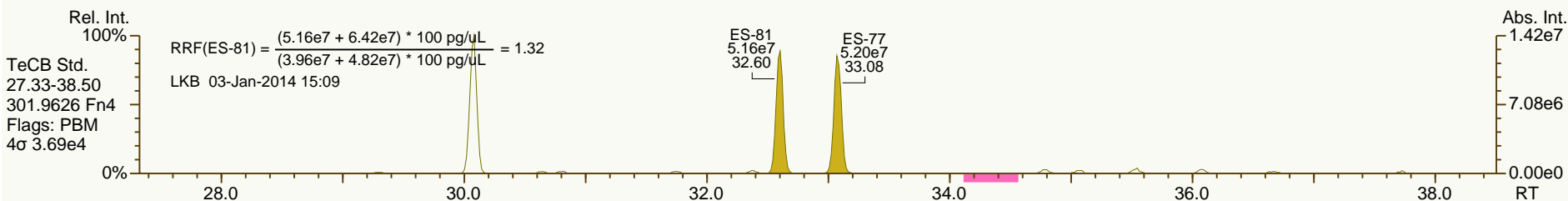
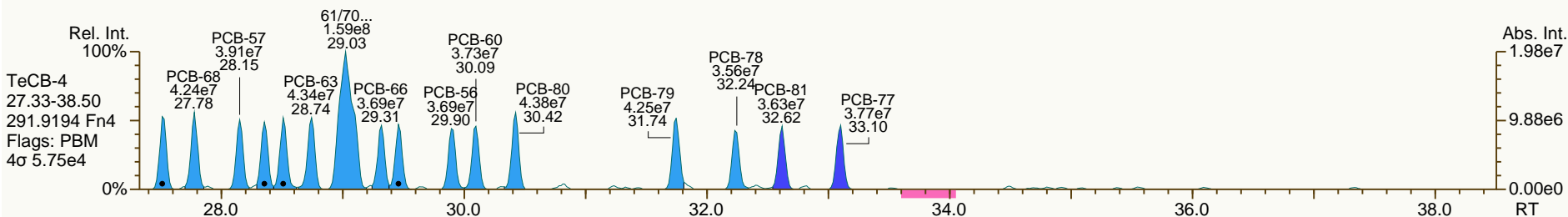
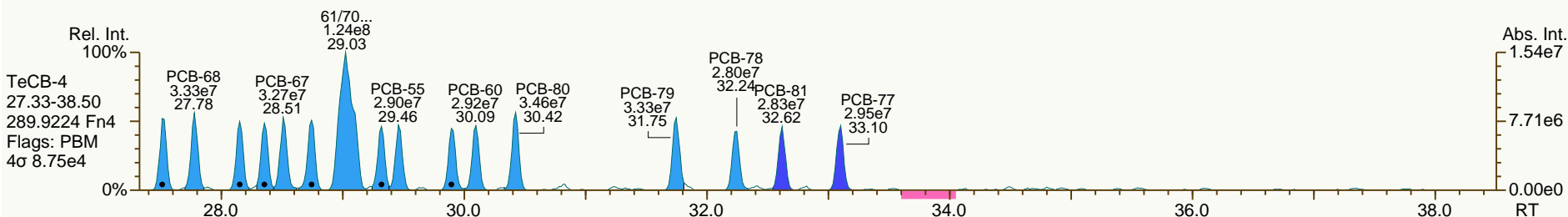
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Sample ID: SIL 13-79-3  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

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SGS-AP ID: CS3\_131220\_PCB\_XA  
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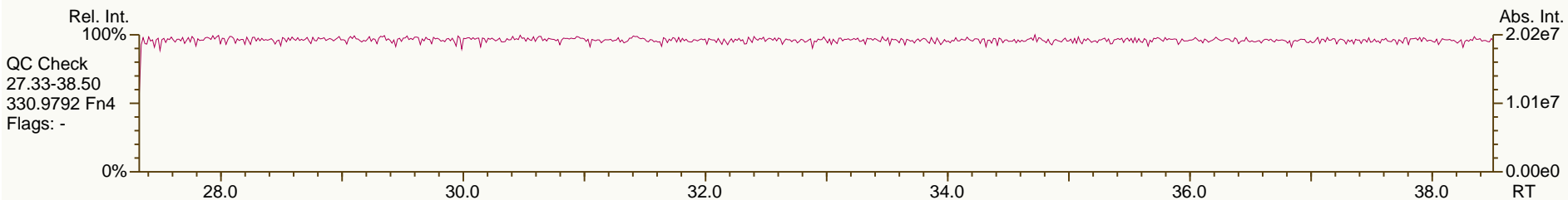
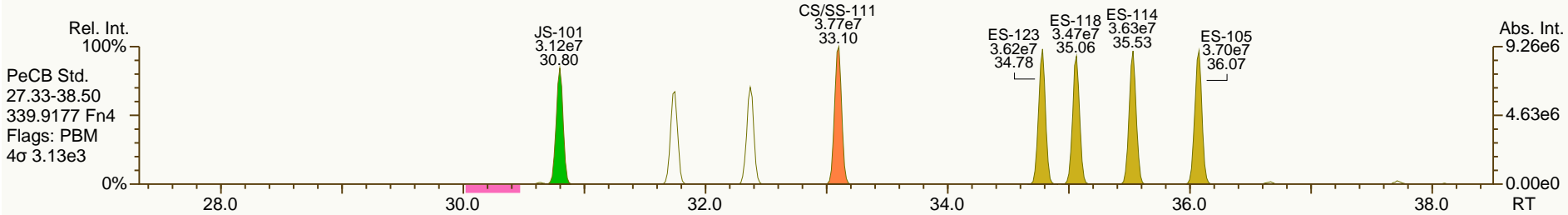
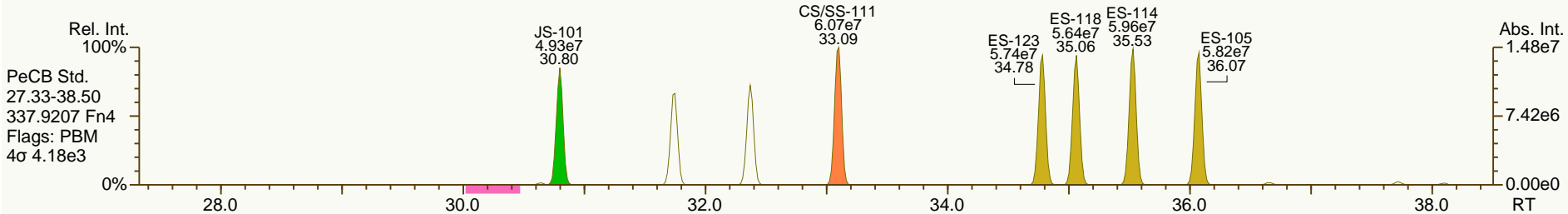
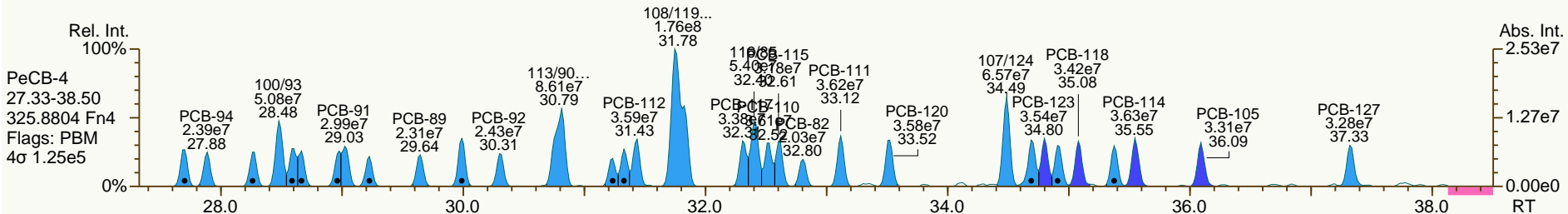
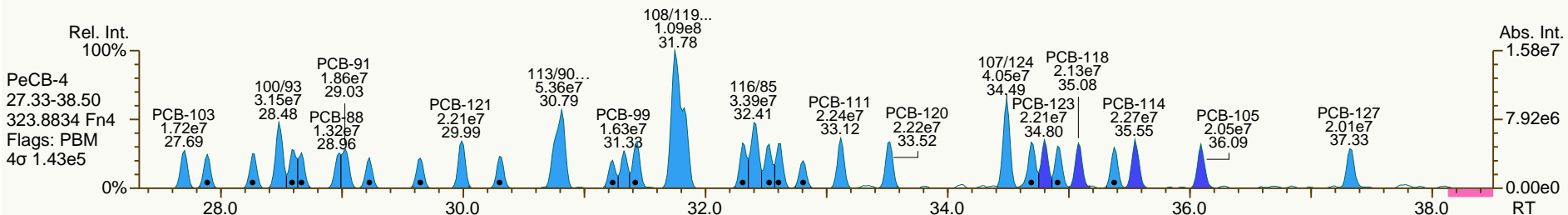
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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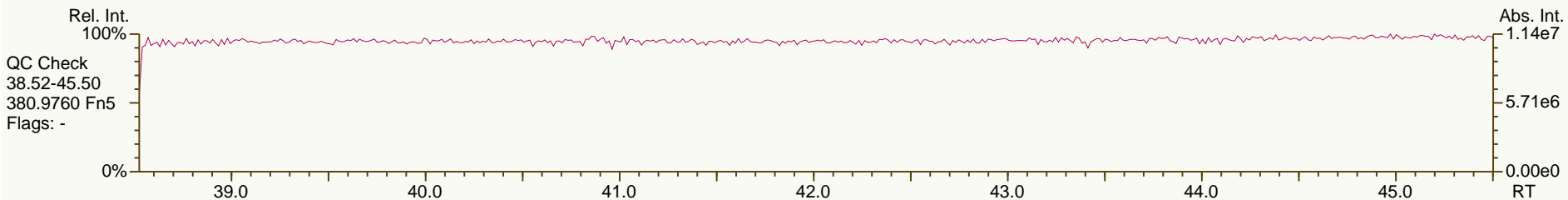
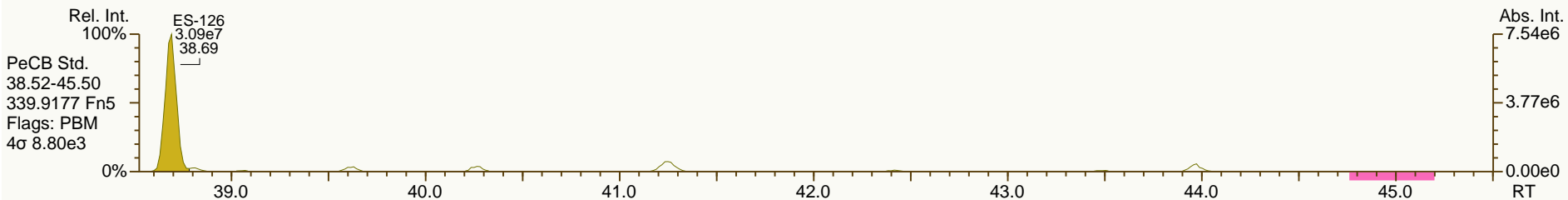
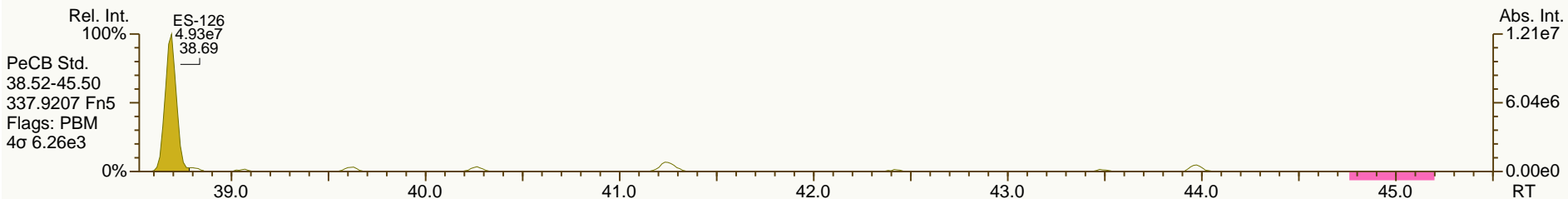
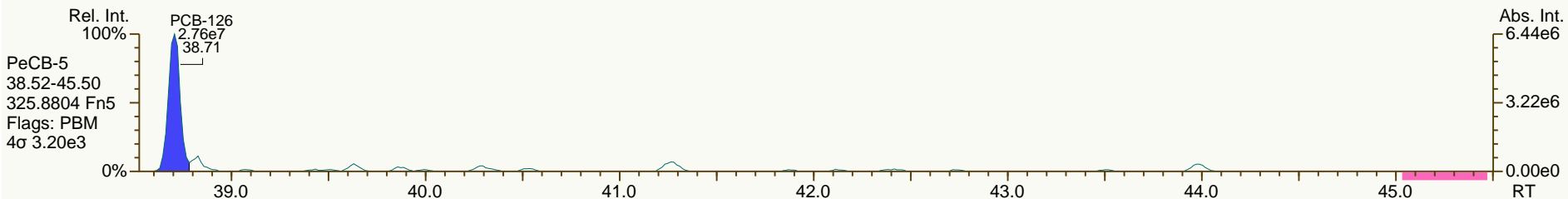
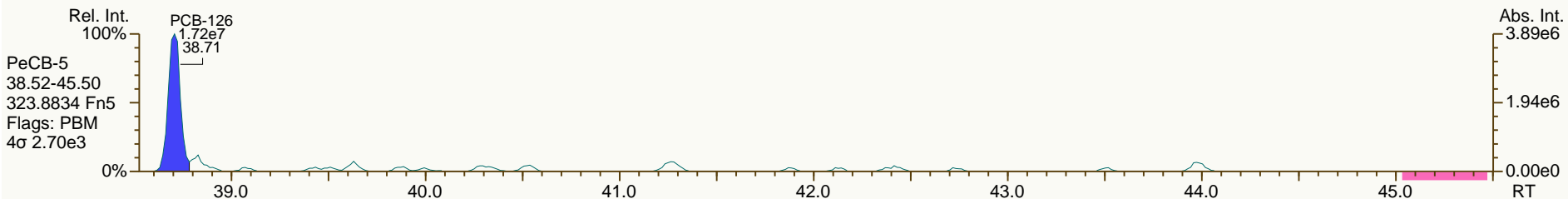
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SGS-AP ID: CS3\_131220\_PCB\_XA  
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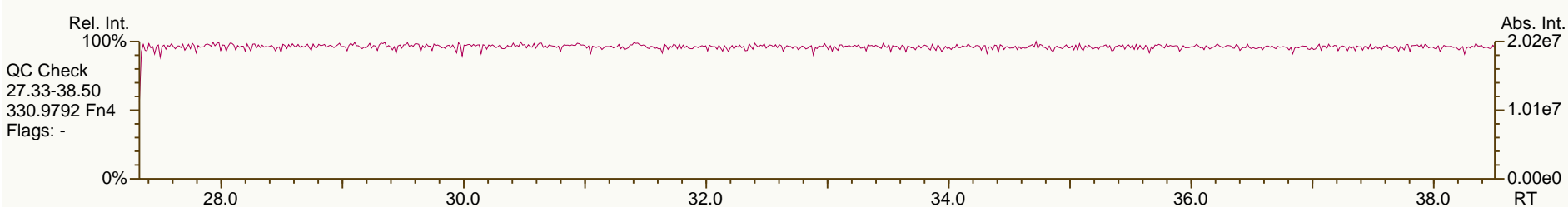
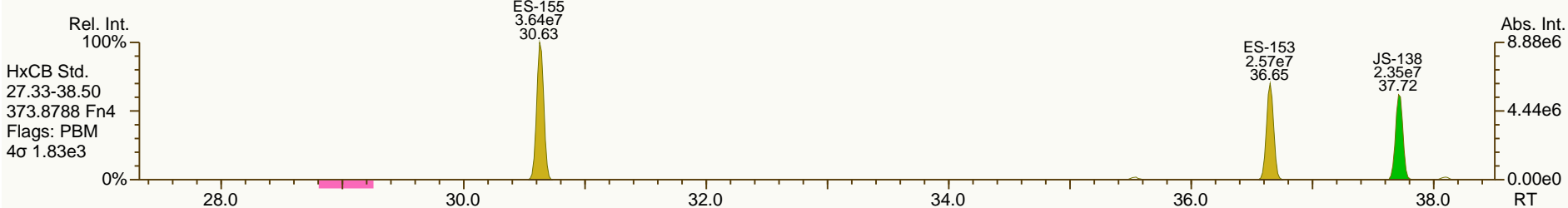
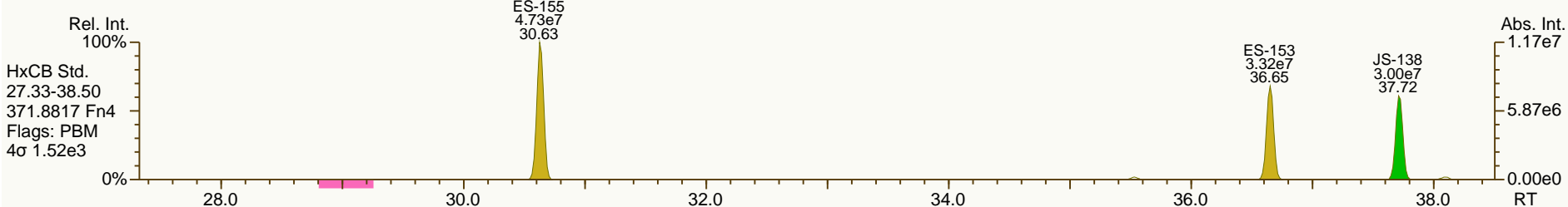
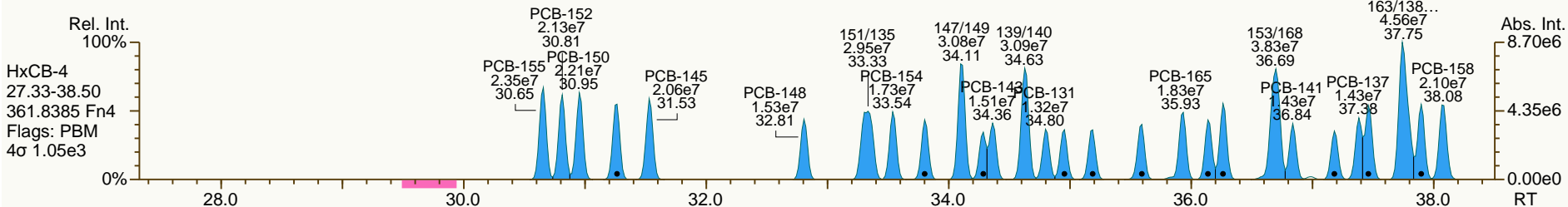
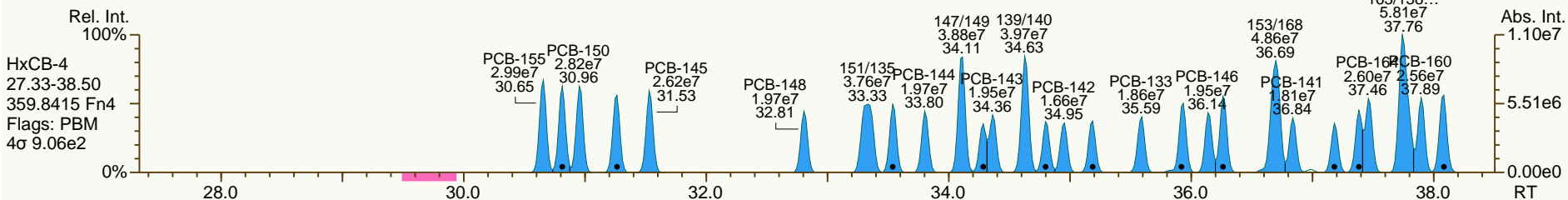
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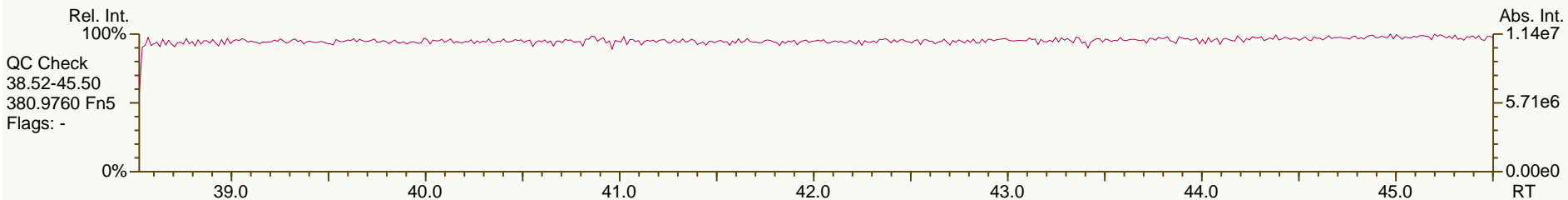
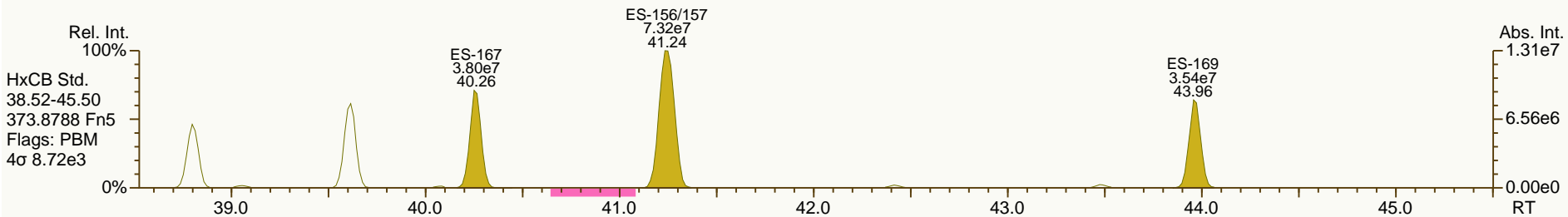
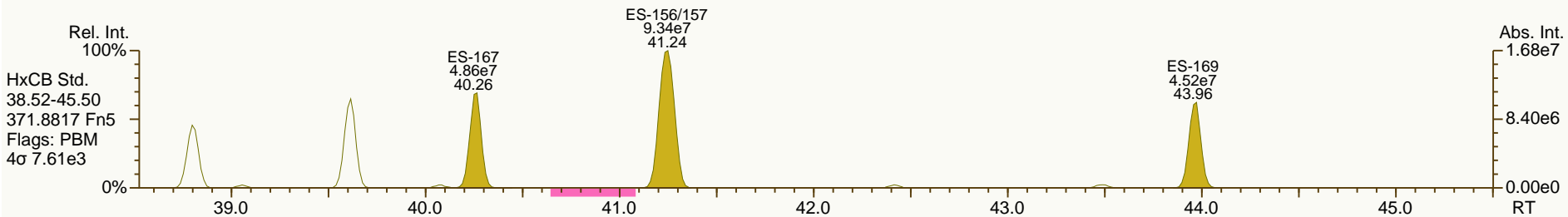
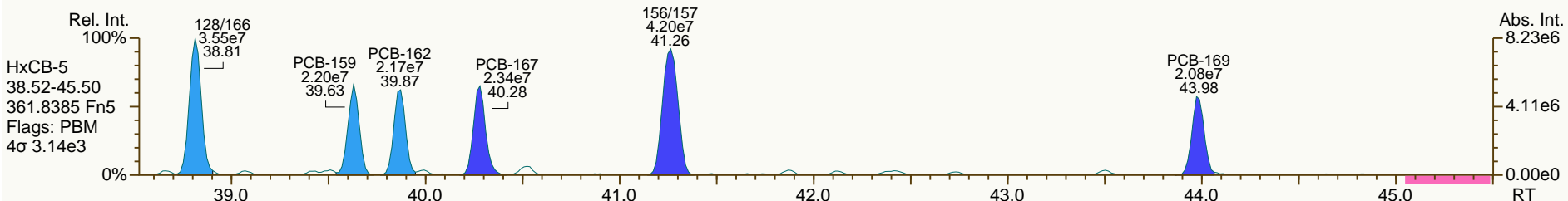
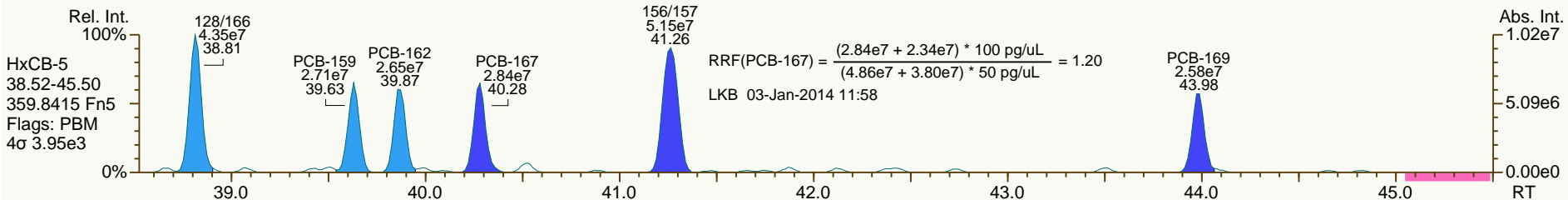
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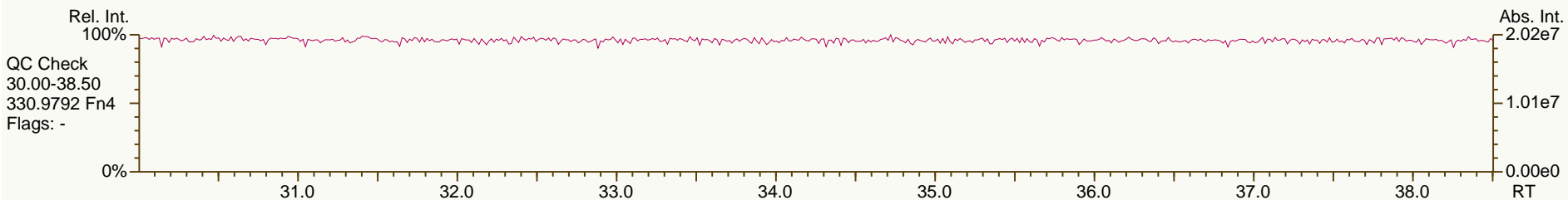
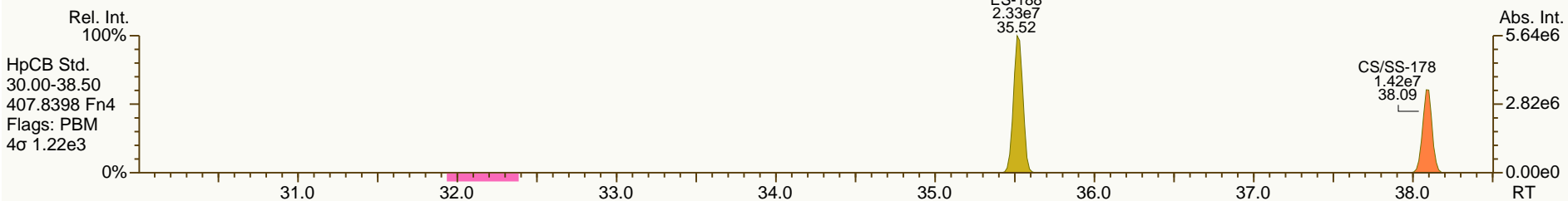
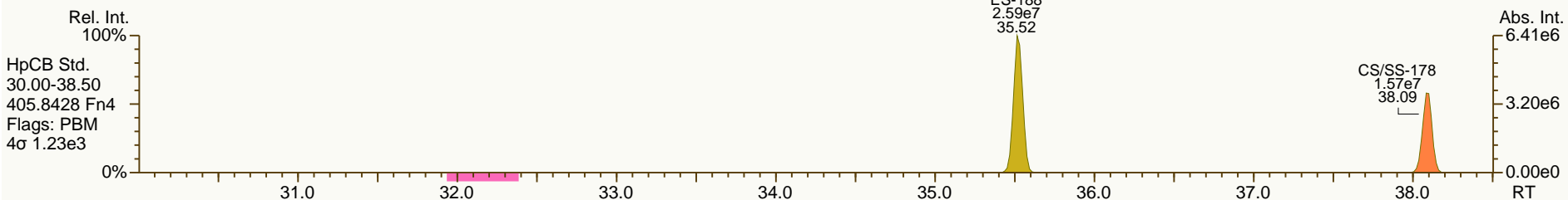
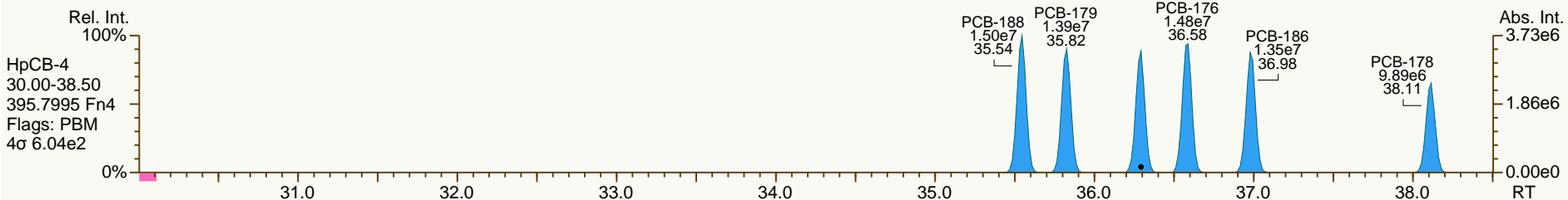
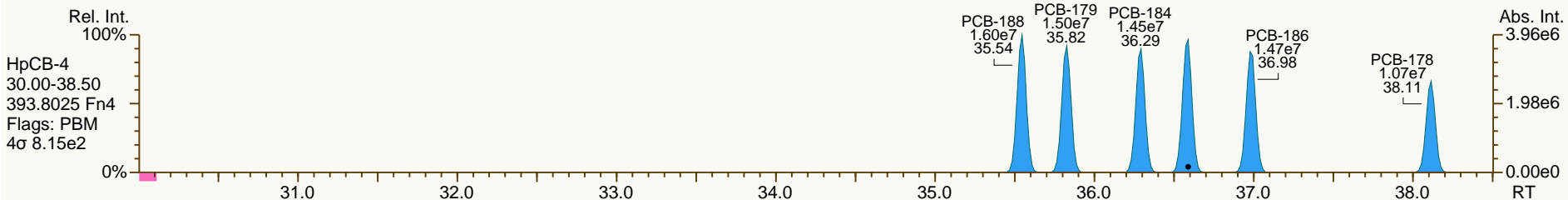
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SGS-AP ID: CS3\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
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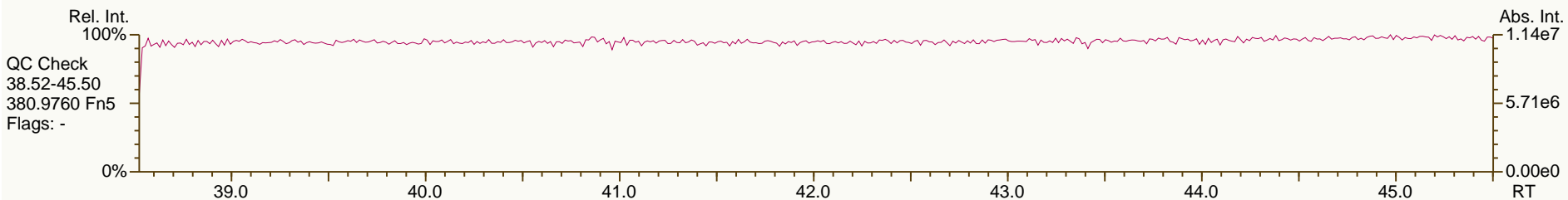
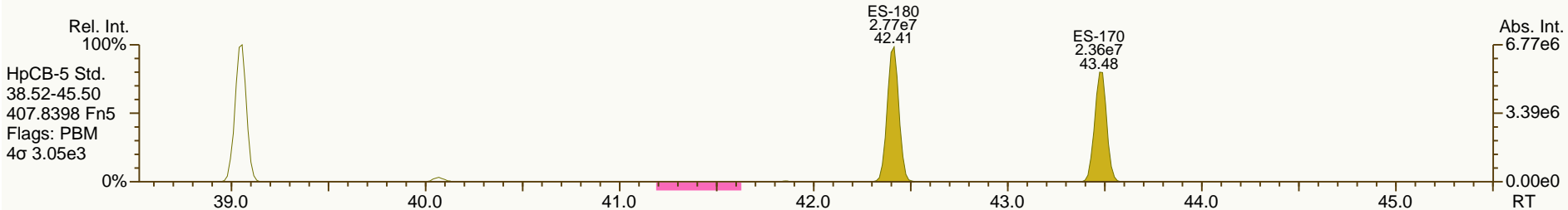
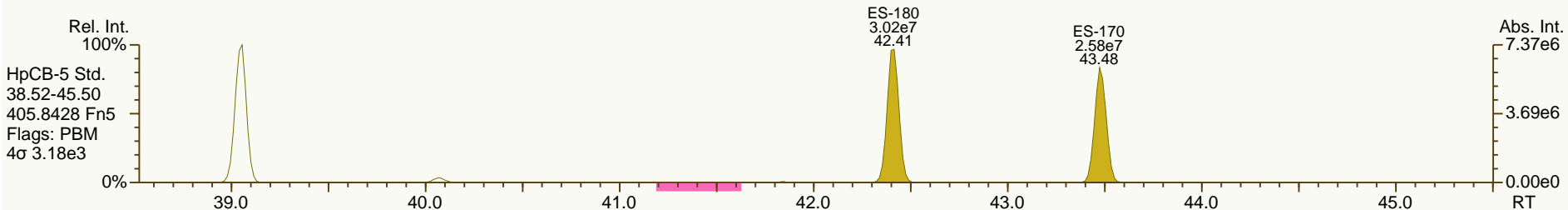
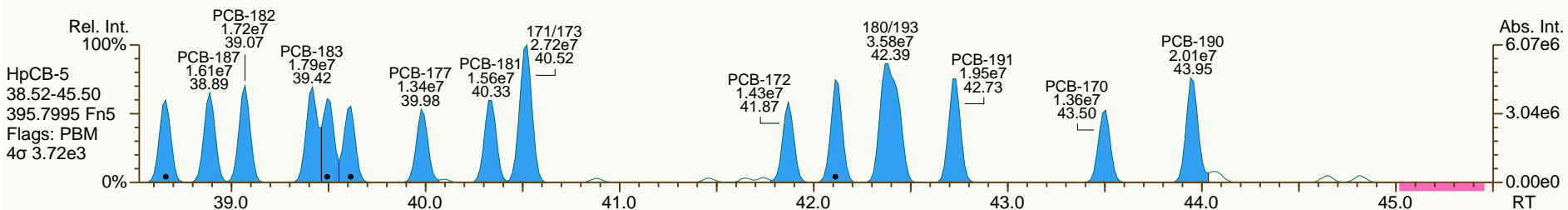
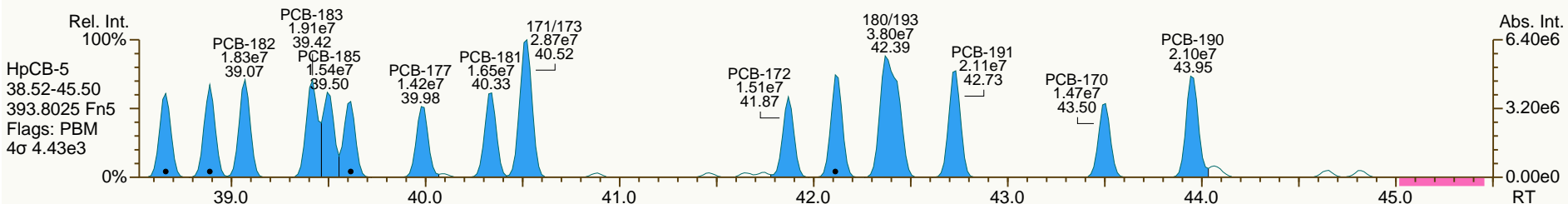




SGS-AP ID: CS3\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

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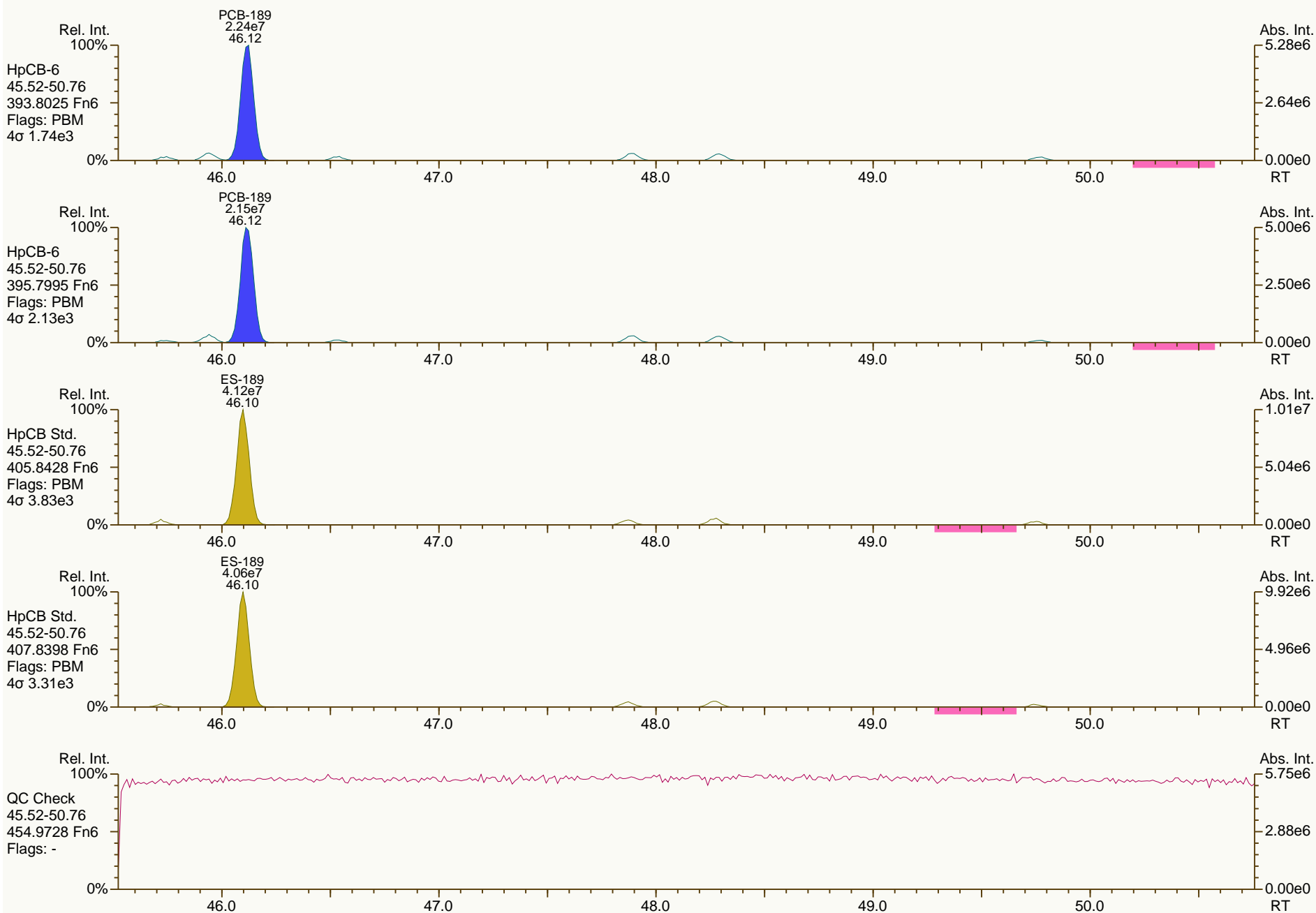
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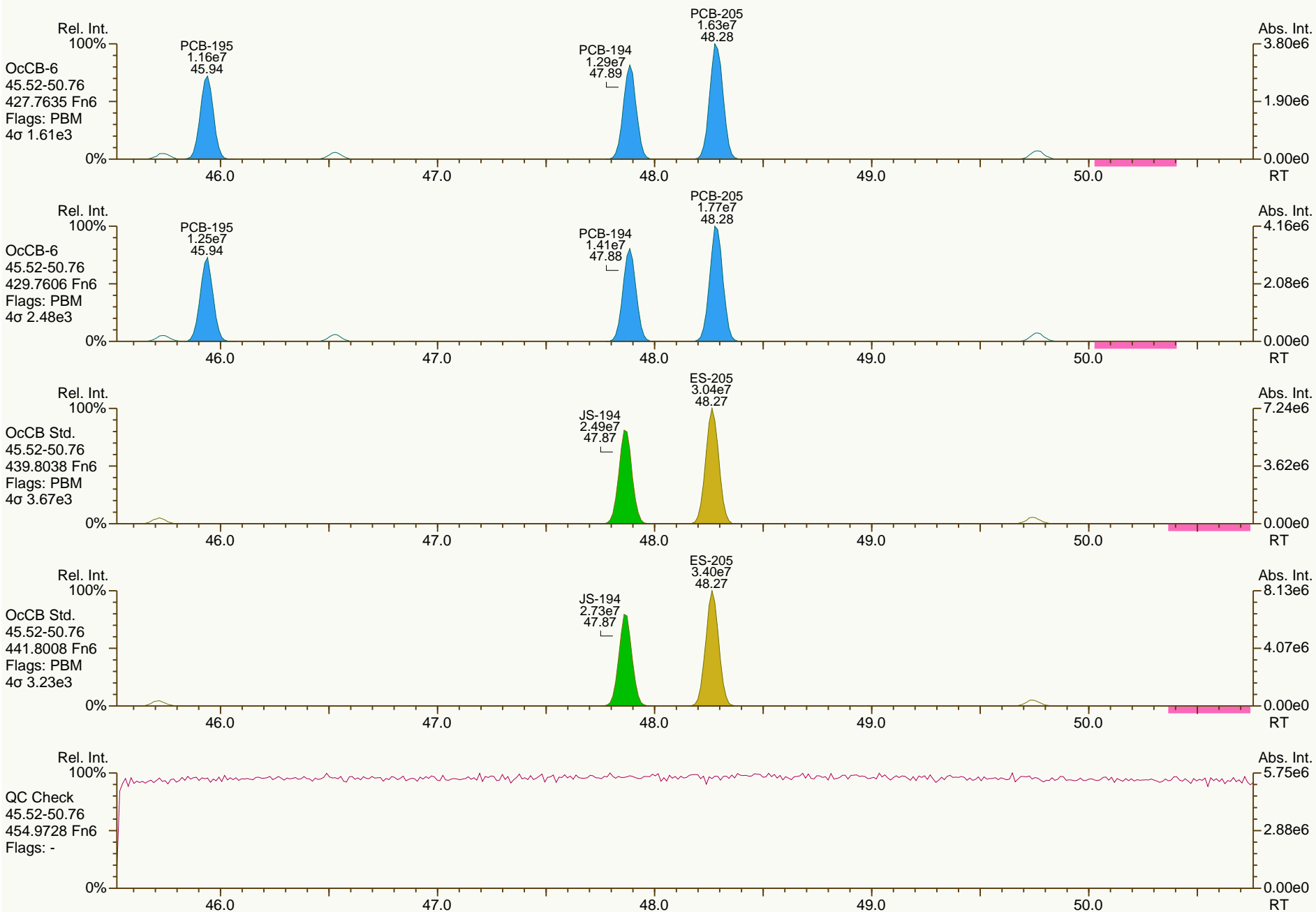
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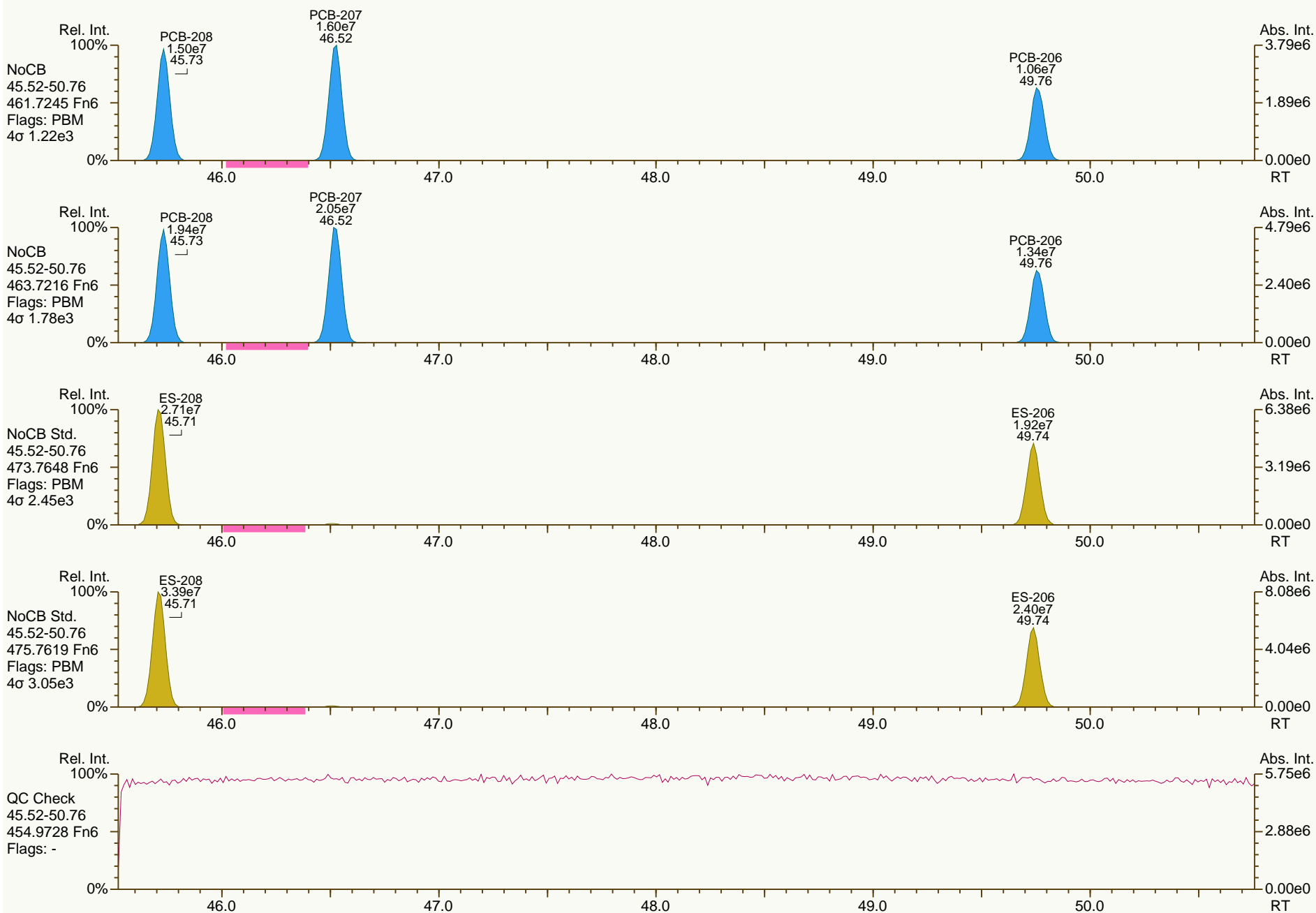
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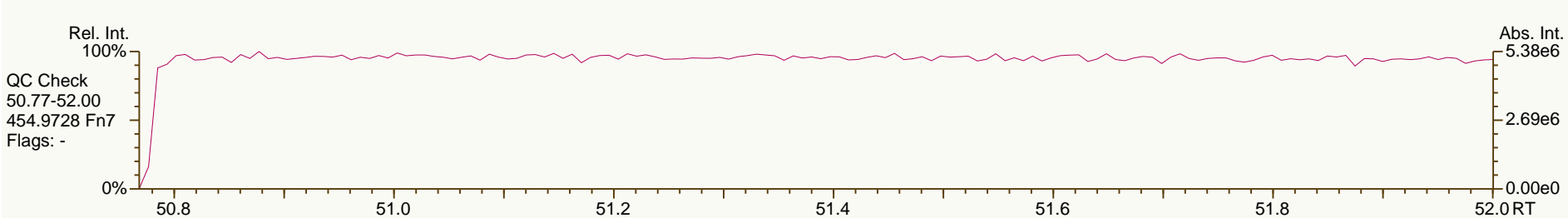
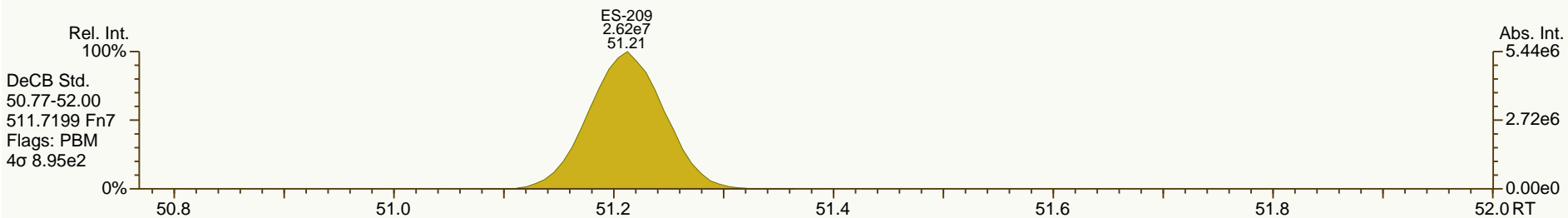
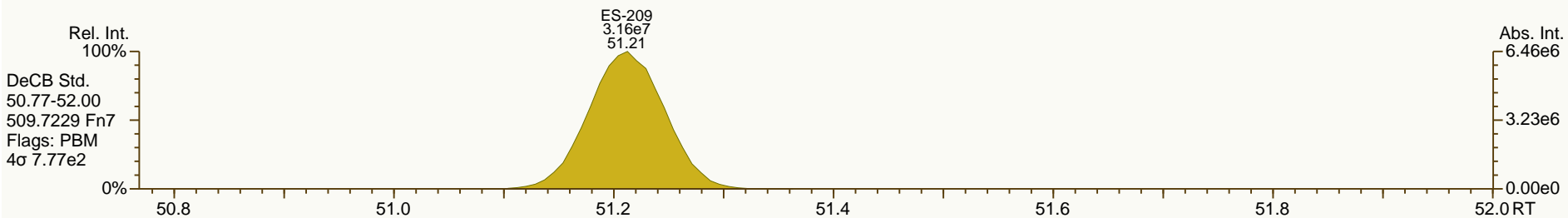
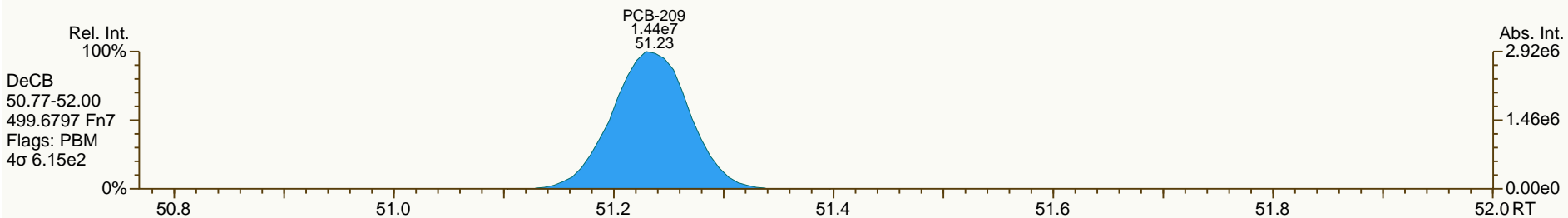
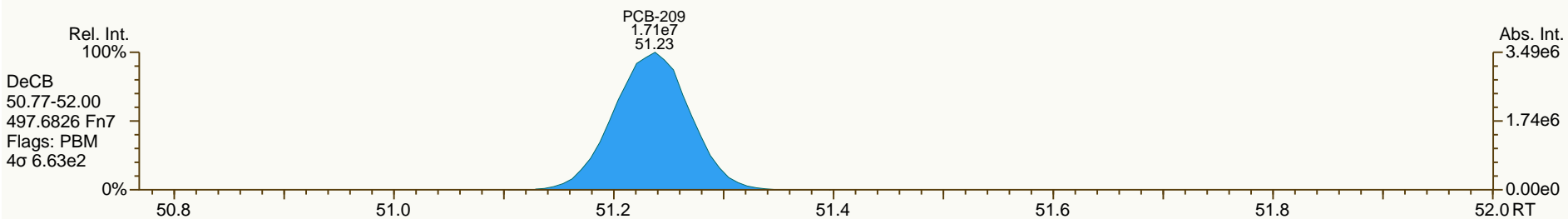
Acq: 20-Dec-2013 18:04:38  
User: LKB Datafile: 131220X05



SGS-AP ID: CS3\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-3  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 40

Acq: 20-Dec-2013 18:04:38  
 User: LKB Datafile: 131220X05



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA				ICAL: 131220 QC MM7		
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.10	6.61E+08	0.78 Y	1.15	1.17	1.7%	
PCB-81 344'5'-TeCB	32.62	6.42E+08	0.78 Y	1.12	1.14	1.9%	
PCB-105 233'44'-PeCB	36.10	5.26E+08	0.62 Y	1.11	1.15	3.3%	
PCB-114 2344'5'-PeCB	35.56	5.80E+08	0.63 Y	1.20	1.24	3.3%	
PCB-118 23'44'5'-PeCB	35.09	5.38E+08	0.62 Y	1.19	1.22	2.6%	
PCB-123 23'44'5'-PeCB	34.81	5.67E+08	0.62 Y	1.21	1.23	1.3%	
PCB-126 33'44'5'-PeCB	38.71	4.45E+08	0.63 Y	1.11	1.14	2.8%	
PCB-156/157 ...-HxCB	41.27	9.01E+08	1.22 Y	1.10	1.11	1.1%	
PCB-167 23'44'55'-HxCB	40.29	4.96E+08	1.23 Y	1.16	1.18	1.4%	
PCB-169 33'44'55'-HxCB	43.99	4.52E+08	1.24 Y	1.12	1.14	1.2%	
PCB-189 233'44'55'-HpCB	46.13	4.15E+08	1.05 Y	1.07	1.10	2.3%	
PCB-209 DeCB	51.25	2.92E+08	1.18 Y	1.11	1.10	-1.4%	
ES PCB-1	12.03	2.53E+08	3.29 Y	1.19	1.17	-1.5%	
ES PCB-3	14.35	2.32E+08	3.37 Y	1.09	1.08	-0.6%	
ES PCB-4	14.61	1.12E+08	1.64 Y	0.52	0.52	-0.1%	
ES PCB-15	20.37	2.25E+08	1.54 Y	1.04	1.05	0.6%	
ES PCB-19	17.72	1.10E+08	1.08 Y	0.51	0.51	0.9%	
ES PCB-37	26.73	1.69E+08	1.08 Y	1.66	1.66	-0.4%	
ES PCB-54	20.66	8.74E+07	0.83 Y	0.86	0.86	-0.5%	
ES PCB-77	33.08	1.41E+08	0.79 Y	1.38	1.38	0.0%	
ES PCB-81	32.61	1.41E+08	0.77 Y	1.37	1.38	1.1%	
ES PCB-104	25.66	7.69E+07	1.65 Y	0.80	0.79	-1.2%	
ES PCB-105	36.08	1.14E+08	1.60 Y	1.20	1.18	-1.7%	
ES PCB-114	35.54	1.17E+08	1.63 Y	1.22	1.21	-1.1%	
ES PCB-118	35.07	1.10E+08	1.63 Y	1.16	1.14	-1.8%	
ES PCB-123	34.79	1.15E+08	1.60 Y	1.19	1.19	0.4%	
ES PCB-126	38.70	9.79E+07	1.53 Y	1.03	1.01	-1.7%	
ES PCB-153	36.66	6.88E+07	1.31 Y	1.11	1.11	-0.6%	
ES PCB-155	30.64	9.70E+07	1.30 Y	1.59	1.56	-1.7%	
ES PCB-156/157	41.25	2.03E+08	1.29 Y	1.60	1.64	2.3%	
ES PCB-167	40.27	1.05E+08	1.27 Y	1.67	1.70	1.7%	
ES PCB-169	43.97	9.92E+07	1.27 Y	1.56	1.60	2.7%	
ES PCB-170	43.49	5.71E+07	1.09 Y	0.95	0.95	0.6%	
ES PCB-180	42.42	6.95E+07	1.09 Y	1.14	1.16	2.0%	
ES PCB-188	35.53	5.77E+07	1.13 Y	0.94	0.93	-1.0%	
ES PCB-189	46.11	9.44E+07	1.04 Y	1.58	1.57	-0.5%	
ES PCB-202	40.08	6.04E+07	0.94 Y	0.97	0.97	0.4%	
ES PCB-205	48.28	7.51E+07	0.90 Y	1.24	1.25	0.7%	
ES PCB-206	49.75	5.00E+07	0.81 Y	0.83	0.83	0.6%	
ES PCB-208	45.72	7.07E+07	0.80 Y	1.17	1.18	0.4%	
ES PCB-209	51.22	6.66E+07	1.18 Y	1.11	1.11	0.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:55		
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	1.88E+08	1.09 Y	1.11	1.11	0.2%	
SS PCB-111	33.10	1.16E+08	1.60 Y	1.03	1.00	-2.6%	
SS PCB-178	38.10	3.54E+07	1.11 Y	0.62	0.61	-1.0%	
CS PCB-28	23.16	1.88E+08	1.09 Y	1.85	1.84	-0.1%	
CS PCB-111	33.10	1.16E+08	1.60 Y	1.22	1.19	-2.2%	
CS PCB-178	38.10	3.54E+07	1.11 Y	0.58	0.57	-2.0%	
JS PCB-9	16.61	2.15E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.02E+08	0.80 Y	-	-	-	
JS PCB-101	30.80	9.69E+07	1.60 Y	-	-	-	
JS PCB-138	37.72	6.21E+07	1.30 Y	-	-	-	
JS PCB-194	47.88	6.00E+07	0.91 Y	-	-	-	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	



PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.04	9.92E+08	3.21 Y	0.95	0.98	3.0%	
PCB-2 3-MoCB	14.18	1.00E+09	3.28 Y	1.03	1.08	4.2%	
PCB-3 4-MoCB	14.36	9.76E+08	3.28 Y	1.01	1.05	4.2%	
PCB-4 22'-DiCB	14.62	5.69E+08	1.58 Y	1.23	1.27	2.9%	
PCB-10 26'-DiCB	14.80	9.17E+08	1.60 Y	1.98	2.04	3.1%	
PCB-9 25'-DiCB	16.62	8.62E+08	1.63 Y	0.95	0.96	1.3%	
PCB-7 24'-DiCB	16.79	9.69E+08	1.64 Y	1.05	1.08	2.9%	
PCB-6 23'-DiCB	17.02	9.24E+08	1.65 Y	1.00	1.03	3.0%	
PCB-5 23'-DiCB	17.32	9.17E+08	1.63 Y	1.00	1.02	1.7%	
PCB-8 24'-DiCB	17.44	9.28E+08	1.63 Y	1.03	1.03	-0.2%	
PCB-14 35'-DiCB	19.01	1.09E+09	1.64 Y	1.18	1.21	2.2%	
PCB-11 33'-DiCB	19.80	9.34E+08	1.64 Y	1.01	1.04	2.7%	
PCB-13/12 34'/34'-DiCB	20.10	1.86E+09	1.64 Y	0.99	1.03	4.5%	
PCB-15 44'-DiCB	20.38	9.40E+08	1.62 Y	1.02	1.04	2.4%	
PCB-19 22'6'-TrCB	17.74	5.10E+08	1.05 Y	1.15	1.16	1.2%	
PCB-30/18 246'/22'5'-TrCB	19.51	1.39E+09	1.05 Y	1.54	1.59	3.3%	
PCB-17 22'4'-TrCB	19.92	5.88E+08	1.05 Y	1.31	1.34	2.6%	
PCB-27 23'6'-TrCB	20.11	8.20E+08	1.05 Y	1.82	1.87	2.8%	
PCB-24 236'-TrCB	20.25	7.60E+08	1.05 Y	1.72	1.73	0.5%	
PCB-16 22'3'-TrCB	20.34	4.62E+08	1.06 Y	1.01	1.05	4.7%	
PCB-32 24'6'-TrCB	20.83	8.47E+08	1.05 Y	1.92	1.93	0.6%	
PCB-34 23'5'-TrCB	21.98	7.98E+08	0.99 Y	1.14	1.18	4.1%	
PCB-23 235'-TrCB	22.14	8.06E+08	0.98 Y	1.16	1.19	3.3%	
PCB-26/29 23'5'/245'-TrCB	22.42	1.63E+09	0.98 Y	1.17	1.21	2.9%	
PCB-25 23'4'-TrCB	22.62	8.00E+08	0.97 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.90	8.40E+08	0.97 Y	1.23	1.24	1.5%	
PCB-28/20 244'/233'-TrCB	23.19	1.58E+09	0.99 Y	1.13	1.17	3.0%	
PCB-21/33 234'/23'4'-TrCB	23.37	1.64E+09	0.99 Y	1.17	1.21	3.3%	
PCB-22 234'-TrCB	23.75	7.44E+08	0.99 Y	1.08	1.10	2.0%	
PCB-36 33'5'-TrCB	25.14	8.17E+08	0.99 Y	1.17	1.21	3.4%	
PCB-39 34'5'-TrCB	25.46	8.41E+08	0.98 Y	1.21	1.25	2.8%	
PCB-38 345'-TrCB	25.99	7.83E+08	0.99 Y	1.10	1.16	4.9%	
PCB-35 33'4'-TrCB	26.39	7.26E+08	0.99 Y	1.04	1.07	3.4%	
PCB-37 344'-TrCB	26.75	7.43E+08	0.98 Y	1.08	1.10	2.0%	
PCB-54 22'66'-TeCB	20.68	4.71E+08	0.83 Y	1.35	1.35	-0.4%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	1.00E+09	0.79 Y	0.88	0.89	1.4%	
PCB-45 22'36'-TeCB	23.27	4.42E+08	0.78 Y	0.77	0.78	2.2%	
PCB-51 22'46'-TeCB	23.34	4.96E+08	0.80 Y	0.86	0.88	2.5%	
PCB-46 22'36'-TeCB	23.55	3.98E+08	0.79 Y	0.70	0.71	1.0%	
PCB-52 22'55'-TeCB	24.81	4.82E+08	0.79 Y	0.84	0.85	1.3%	
PCB-73 23'5'6'-TeCB	24.94	6.34E+08	0.78 Y	1.11	1.12	1.1%	
PCB-43 22'35'-TeCB	25.04	4.03E+08	0.80 Y	0.71	0.72	0.7%	
PCB-69/49 23'46'/22'45'-TeCB	25.23	1.18E+09	0.79 Y	1.02	1.05	2.5%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	25.52	4.79E+08	0.79 Y	0.84	0.85	1.4%	
PCB-44/47/65 ...-TeCB	25.74	1.57E+09	0.79 Y	0.90	0.93	3.0%	
PCB-59/62/75 ...-TeCB	26.01	2.05E+09	0.79 Y	1.17	1.22	4.3%	
PCB-42 22'34'-TeCB	26.18	4.36E+08	0.79 Y	0.76	0.77	1.5%	
PCB-41 22'34'-TeCB	26.51	3.81E+08	0.78 Y	0.69	0.68	-2.7%	
PCB-71/40 23'4'6/22'33'-TeCB	26.61	1.02E+09	0.80 Y	0.86	0.90	4.9%	
PCB-64 234'6'-TeCB	26.81	7.02E+08	0.79 Y	1.22	1.25	2.0%	
PCB-72 23'55'-TeCB	27.53	6.86E+08	0.78 Y	1.21	1.22	0.7%	
PCB-68 23'45'-TeCB	27.78	7.41E+08	0.78 Y	1.28	1.31	2.9%	
PCB-57 233'5'-TeCB	28.16	6.53E+08	0.78 Y	1.16	1.16	-0.5%	
PCB-58 233'5'-TeCB	28.36	6.72E+08	0.78 Y	1.18	1.19	1.1%	
PCB-67 23'45'-TeCB	28.52	7.17E+08	0.78 Y	1.26	1.27	1.1%	
PCB-63 234'5'-TeCB	28.75	7.44E+08	0.78 Y	1.30	1.32	1.7%	
PCB-61/70/74/76 ...-TeCB	29.04	2.76E+09	0.78 Y	1.20	1.22	2.2%	
PCB-66 23'44'-TeCB	29.32	6.42E+08	0.78 Y	1.10	1.14	3.3%	
PCB-55 233'4'-TeCB	29.47	6.33E+08	0.78 Y	1.12	1.12	0.3%	
PCB-56 233'4'-TeCB	29.91	6.29E+08	0.78 Y	1.11	1.12	0.6%	
PCB-60 2344'-TeCB	30.10	6.41E+08	0.78 Y	1.14	1.14	0.2%	
PCB-80 33'55'-TeCB	30.43	7.47E+08	0.78 Y	1.31	1.32	0.9%	
PCB-79 33'45'-TeCB	31.75	7.60E+08	0.78 Y	1.31	1.35	3.2%	
PCB-78 33'45'-TeCB	32.25	6.10E+08	0.78 Y	1.06	1.08	1.9%	
PCB-104 22'466'-PeCB	25.69	4.46E+08	0.64 Y	1.43	1.45	1.0%	
PCB-96 22'366'-PeCB	26.00	3.93E+08	0.65 Y	1.23	1.28	3.9%	
PCB-103 22'45'6'-PeCB	27.70	4.37E+08	0.62 Y	0.93	0.95	1.6%	
PCB-94 22'356'-PeCB	27.89	3.75E+08	0.62 Y	0.80	0.81	1.6%	
PCB-95 22'35'6'-PeCB	28.27	4.04E+08	0.62 Y	0.87	0.87	0.9%	
PCB-100/93 22'44'6/22'356'-PeCB	28.49	8.29E+08	0.62 Y	0.86	0.90	3.9%	
PCB-102 22'456'-PeCB	28.60	4.01E+08	0.62 Y	0.97	0.87	-10.2%	
PCB-98 22'34'6'-PeCB	28.67	3.96E+08	0.62 Y	0.76	0.86	13.2%	
PCB-88 22'346'-PeCB	28.98	3.93E+08	0.62 Y	0.80	0.85	6.8%	
PCB-91 22'34'6'-PeCB	29.04	4.40E+08	0.63 Y	0.94	0.95	0.9%	
PCB-84 22'33'6'-PeCB	29.23	3.38E+08	0.63 Y	0.72	0.73	2.3%	
PCB-89 22'346'-PeCB	29.65	3.62E+08	0.62 Y	0.76	0.78	2.8%	
PCB-121 23'45'6'-PeCB	29.99	5.66E+08	0.62 Y	1.20	1.23	2.2%	
PCB-92 22'355'-PeCB	30.31	3.81E+08	0.62 Y	0.82	0.83	0.7%	
PCB-113/90/101 ...-PeCB	30.80	1.39E+09	0.62 Y	0.99	1.01	2.0%	
PCB-83 22'33'5'-PeCB	31.24	3.22E+08	0.62 Y	0.71	0.70	-2.5%	
PCB-99 22'44'5'-PeCB	31.34	4.51E+08	0.62 Y	0.92	0.98	6.1%	
PCB-112 233'56'-PeCB	31.44	5.42E+08	0.62 Y	1.17	1.17	0.5%	
PCB-108/119/86/97/125...-PeCB	31.78	2.82E+09	0.63 Y	0.98	1.02	3.8%	
PCB-117 234'56'-PeCB	32.32	5.03E+08	0.62 Y	1.14	1.09	-4.3%	
PCB-116/85 23456/22'344'-PeCB	32.41	9.15E+08	0.62 Y	0.94	0.99	5.3%	
PCB-110 233'4'6'-PeCB	32.53	5.11E+08	0.62 Y	1.12	1.11	-1.0%	

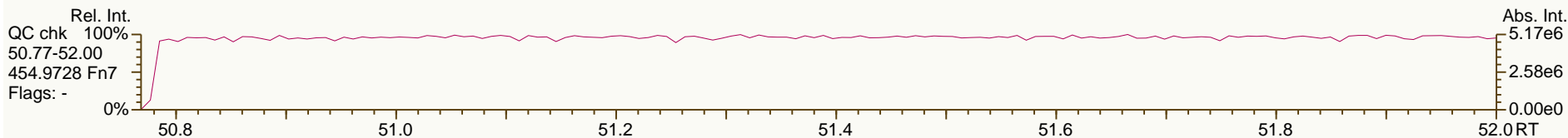
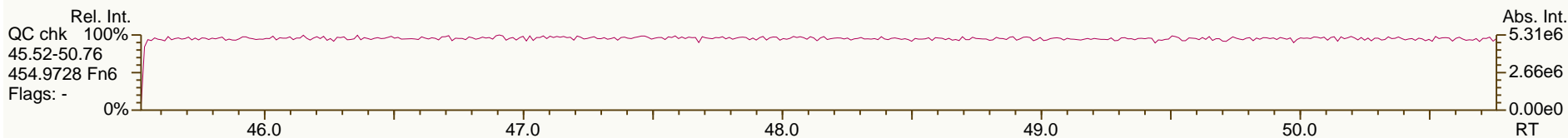
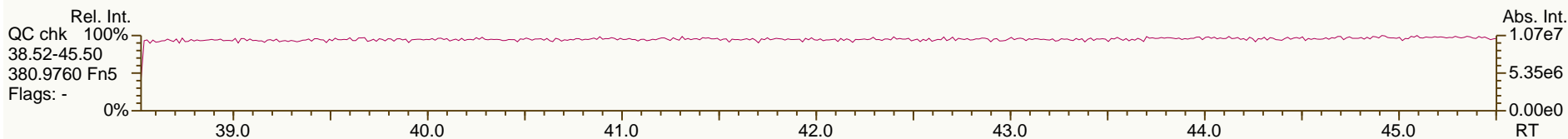
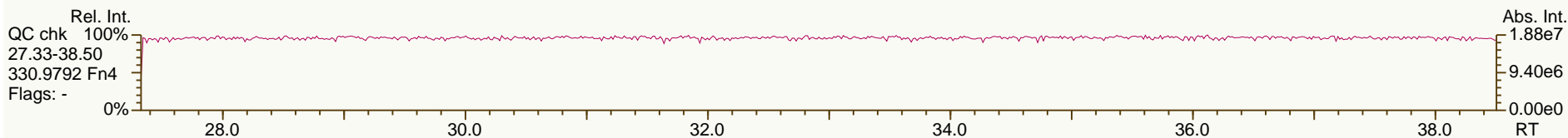
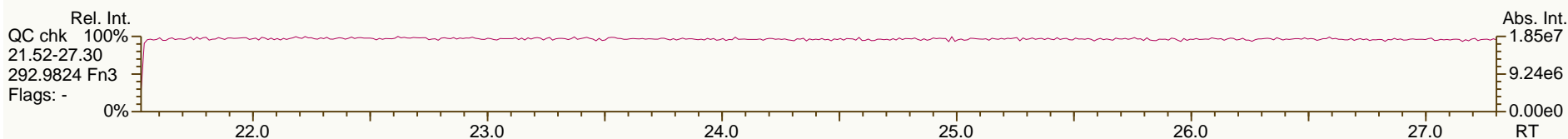
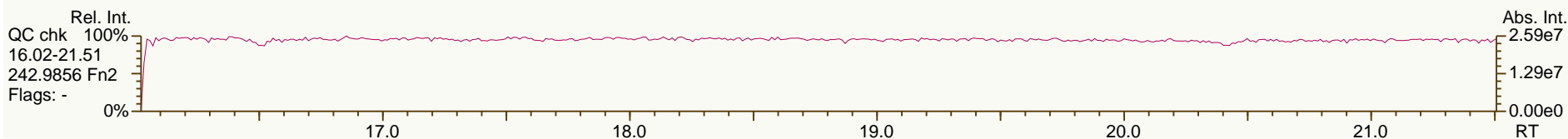
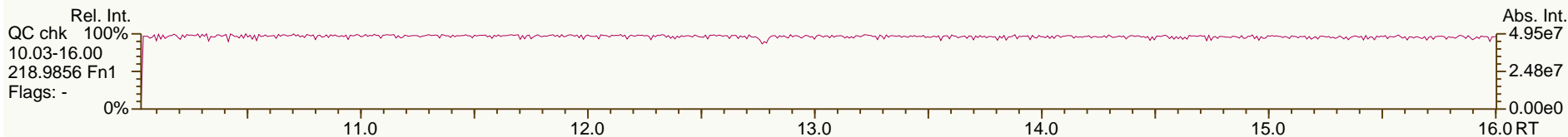
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	32.62	5.34E+08	0.63 Y	1.16	1.16	-0.2%	
PCB-82 22'33'4-PeCB	32.81	3.31E+08	0.62 Y	0.70	0.72	3.0%	
PCB-111 233'55'-PeCB	33.12	5.66E+08	0.62 Y	1.22	1.23	0.5%	
PCB-120 23'455'-PeCB	33.52	5.76E+08	0.62 Y	1.21	1.25	2.9%	
PCB-107/124 ...-PeCB	34.49	1.03E+09	0.62 Y	1.10	1.12	2.0%	
PCB-109 233'46-PeCB	34.70	5.82E+08	0.62 Y	1.25	1.26	0.6%	
PCB-106 233'45-PeCB	34.92	5.22E+08	0.62 Y	1.11	1.13	2.4%	
PCB-122 233'4'5'-PeCB	35.38	4.75E+08	0.63 Y	0.99	1.02	2.2%	
PCB-127 33'455'-PeCB	37.34	5.12E+08	0.63 Y	1.10	1.12	2.2%	
PCB-155 22'44'66'-HxCB	30.66	5.02E+08	1.27 Y	1.26	1.29	2.6%	
PCB-152 22'3566'-HxCB	30.82	4.78E+08	1.27 Y	1.17	1.23	5.1%	
PCB-150 22'34'66'-HxCB	30.96	4.68E+08	1.27 Y	1.18	1.21	2.7%	
PCB-136 22'33'66'-HxCB	31.27	4.35E+08	1.27 Y	1.07	1.12	5.1%	
PCB-145 22'3466'-HxCB	31.54	4.41E+08	1.27 Y	1.11	1.14	2.1%	
PCB-148 22'34'56'-HxCB	32.82	3.38E+08	1.27 Y	1.18	1.23	3.8%	
PCB-151/135 ...-HxCB	33.34	6.39E+08	1.28 Y	1.14	1.16	1.9%	
PCB-154 22'44'56'-HxCB	33.55	3.76E+08	1.27 Y	1.34	1.37	1.9%	
PCB-144 22'345'6-HxCB	33.81	3.29E+08	1.28 Y	1.18	1.20	1.2%	
PCB-147/149 ...-HxCB	34.11	6.68E+08	1.27 Y	1.18	1.21	3.2%	
PCB-134 22'33'56-HxCB	34.29	2.65E+08	1.26 Y	0.92	0.96	4.4%	
PCB-143 22'3456'-HxCB	34.37	3.08E+08	1.28 Y	1.13	1.12	-1.0%	
PCB-139/140 ...-HxCB	34.64	6.80E+08	1.27 Y	1.21	1.24	2.6%	
PCB-131 22'33'46-HxCB	34.81	2.87E+08	1.28 Y	1.03	1.04	1.8%	
PCB-142 22'3456-HxCB	34.96	2.82E+08	1.29 Y	0.99	1.03	3.6%	
PCB-132 22'33'46'-HxCB	35.19	2.84E+08	1.30 Y	1.03	1.03	0.3%	
PCB-133 22'33'55'-HxCB	35.59	3.19E+08	1.28 Y	1.13	1.16	2.4%	
PCB-165 233'55'6-HxCB	35.94	3.83E+08	1.28 Y	1.41	1.39	-1.3%	
PCB-146 22'34'55'-HxCB	36.15	3.42E+08	1.27 Y	1.20	1.24	3.4%	
PCB-161 233'45'6-HxCB	36.27	4.26E+08	1.28 Y	1.52	1.55	1.8%	
PCB-153/168 ...-HxCB	36.70	8.26E+08	1.27 Y	1.46	1.50	3.0%	
PCB-141 22'3455'-HxCB	36.85	3.01E+08	1.29 Y	1.09	1.10	0.7%	
PCB-130 22'33'45'-HxCB	37.19	2.69E+08	1.27 Y	0.97	0.98	0.6%	
PCB-137 22'344'5-HxCB	37.39	3.35E+08	1.27 Y	1.16	1.22	4.6%	
PCB-164 233'4'5'6-HxCB	37.47	4.16E+08	1.29 Y	1.50	1.51	0.9%	
PCB-163/138/129 ...-HxCB	37.76	1.01E+09	1.27 Y	1.19	1.23	3.3%	
PCB-160 233'456-HxCB	37.90	4.29E+08	1.27 Y	1.52	1.56	2.8%	
PCB-158 233'44'6-HxCB	38.09	4.60E+08	1.28 Y	1.66	1.67	0.5%	
PCB-128/166 ...-HxCB	38.82	7.86E+08	1.23 Y	0.90	0.93	3.7%	
PCB-159 233'455'-HxCB	39.64	4.70E+08	1.23 Y	1.11	1.12	0.1%	
PCB-162 233'4'55'-HxCB	39.88	4.62E+08	1.22 Y	1.07	1.10	2.4%	
PCB-188 22'34'566'-HpCB	35.55	2.95E+08	1.08 Y	1.27	1.28	0.6%	
PCB-179 22'33'566'-HpCB	35.83	2.67E+08	1.10 Y	1.16	1.16	-0.3%	
PCB-184 22'344'66'-HpCB	36.30	2.61E+08	1.09 Y	1.13	1.13	0.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:55			
Lab ID:	CS4_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 18:59						
Datafile:	131220X06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	2.85E+08	1.09 Y	1.23	1.24	0.3%	
PCB-186 22'34566'-HpCB	36.99	2.59E+08	1.08 Y	1.13	1.12	-0.3%	
PCB-178 22'33'55'6'-HpCB	38.12	1.94E+08	1.08 Y	0.84	0.84	-0.6%	
PCB-175 22'33'45'6'-HpCB	38.67	3.05E+08	1.06 Y	1.07	1.10	2.1%	
PCB-187 22'34'55'6'-HpCB	38.90	3.25E+08	1.06 Y	1.14	1.17	2.6%	
PCB-182 22'344'56'-HpCB	39.08	3.35E+08	1.06 Y	1.18	1.21	2.7%	
PCB-183 22'344'5'6'-HpCB	39.42	3.29E+08	1.05 Y	1.20	1.18	-1.8%	
PCB-185 22'3455'6'-HpCB	39.51	3.20E+08	1.06 Y	1.06	1.15	8.5%	
PCB-174 22'33'456'-HpCB	39.62	2.73E+08	1.06 Y	0.99	0.98	-0.9%	
PCB-177 22'33'45'6'-HpCB	39.99	2.68E+08	1.06 Y	0.95	0.96	1.4%	
PCB-181 22'344'56'-HpCB	40.34	3.10E+08	1.06 Y	1.09	1.12	2.5%	
PCB-171/173 ...-HpCB	40.53	5.43E+08	1.06 Y	0.95	0.98	3.1%	
PCB-172 22'33'455'-HpCB	41.88	2.79E+08	1.06 Y	0.99	1.00	1.6%	
PCB-192 233'455'6'-HpCB	42.13	3.67E+08	1.06 Y	1.29	1.32	2.6%	
PCB-180/193 ...-HpCB	42.40	7.06E+08	1.06 Y	1.26	1.27	0.7%	
PCB-191 233'44'5'6'-HpCB	42.74	3.88E+08	1.06 Y	1.40	1.40	0.1%	
PCB-170 22'33'44'5'-HpCB	43.51	2.72E+08	1.05 Y	1.14	1.19	4.9%	
PCB-190 233'44'56'-HpCB	43.96	3.86E+08	1.06 Y	1.66	1.69	1.7%	
PCB-202 22'33'55'66'-OcCB	40.10	2.56E+08	0.92 Y	1.05	1.06	0.6%	
PCB-201 22'33'45'66'-OcCB	40.89	3.08E+08	0.92 Y	1.22	1.27	4.3%	
PCB-204 22'344'566'-OcCB	41.47	2.70E+08	0.92 Y	1.12	1.12	0.3%	
PCB-197 22'33'44'66'-OcCB	41.66	2.93E+08	0.91 Y	1.19	1.21	1.7%	
PCB-200 22'33'4566'-OcCB	41.75	2.71E+08	0.92 Y	1.11	1.12	1.3%	
PCB-198/199 ...-OcCB	44.07	3.95E+08	0.91 Y	0.81	0.82	0.9%	
PCB-196 22'33'44'56'-OcCB	44.65	2.03E+08	0.92 Y	0.83	0.84	0.6%	
PCB-203 22'344'55'6'-OcCB	44.82	2.13E+08	0.92 Y	0.87	0.88	1.0%	
PCB-195 22'33'44'56'-OcCB	45.95	2.31E+08	0.91 Y	0.77	0.77	0.4%	
PCB-194 22'33'44'55'-OcCB	47.90	2.54E+08	0.92 Y	0.84	0.85	0.4%	
PCB-205 233'44'55'6'-OcCB	48.30	3.22E+08	0.91 Y	1.06	1.07	1.2%	
PCB-208 22'33'455'66'-NoCB	45.74	3.23E+08	0.78 Y	1.12	1.14	1.7%	
PCB-207 22'33'44'566'-NoCB	46.53	3.40E+08	0.79 Y	1.19	1.20	1.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	2.24E+08	0.78 Y	1.11	1.12	0.5%	

SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

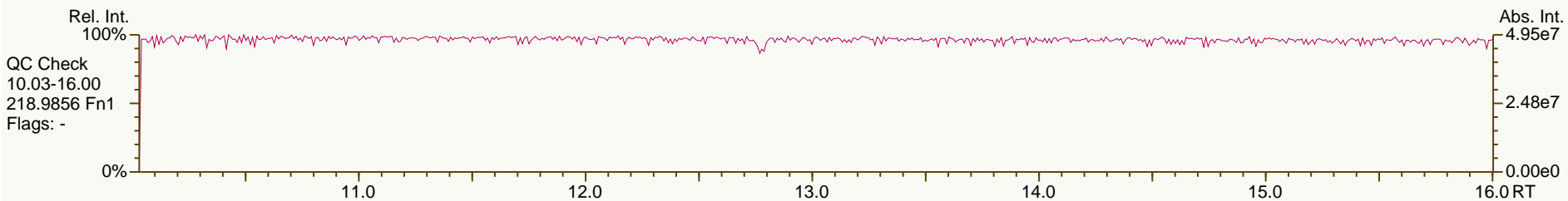
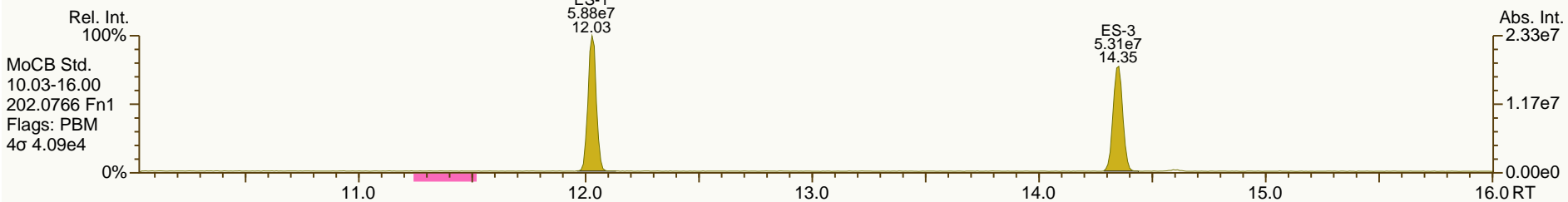
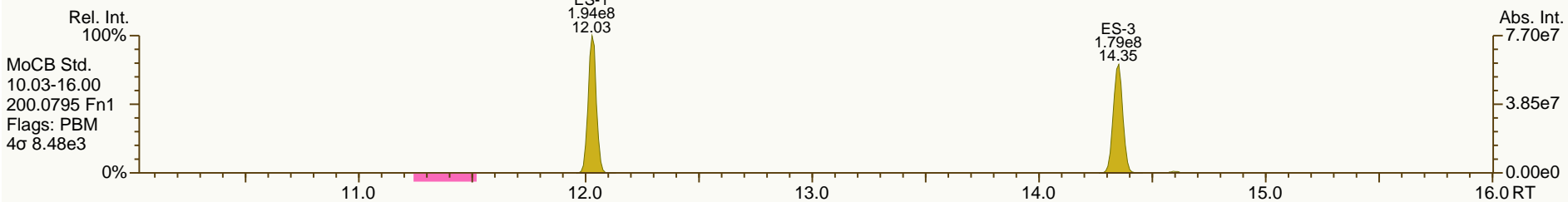
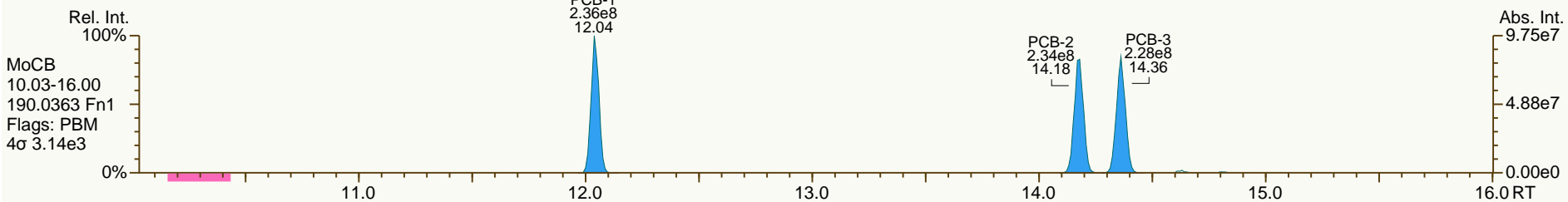
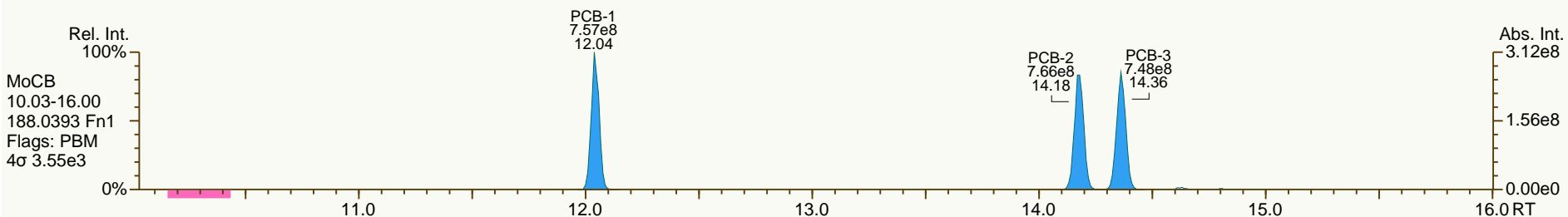
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

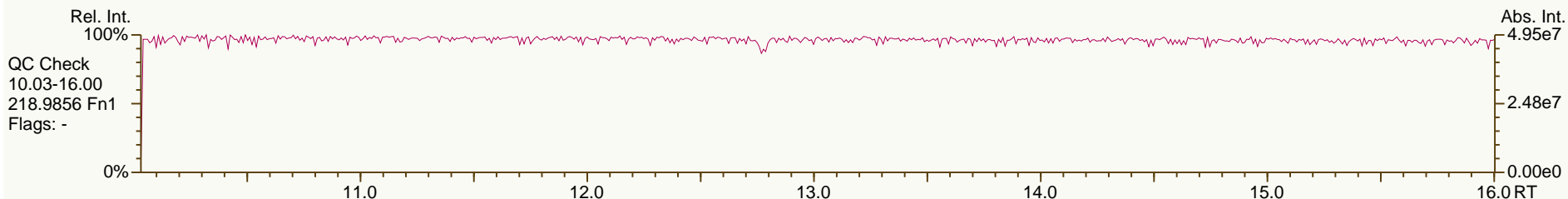
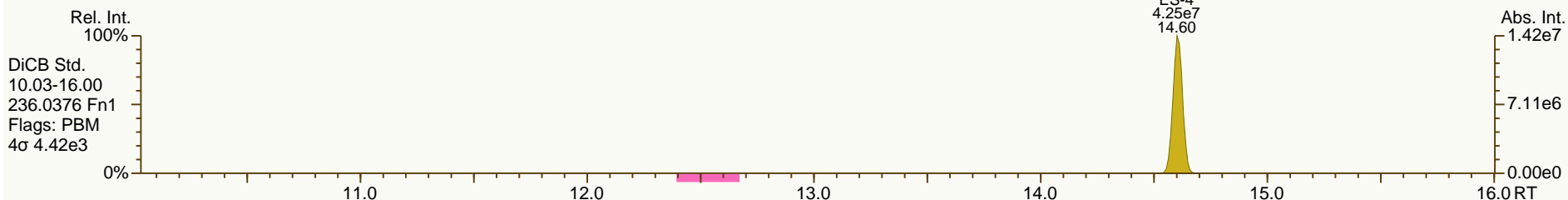
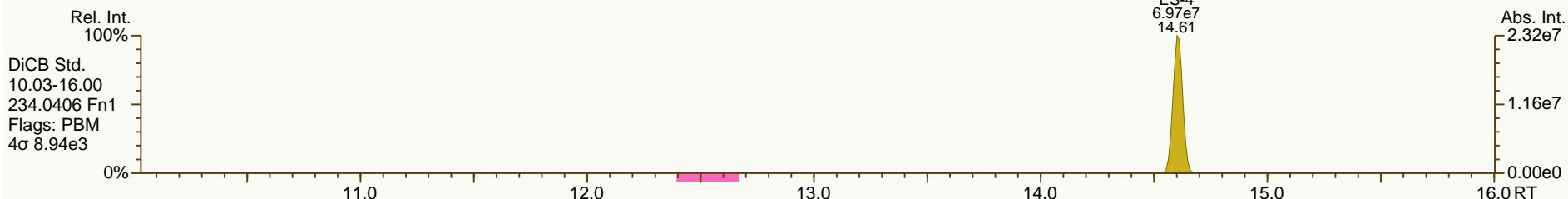
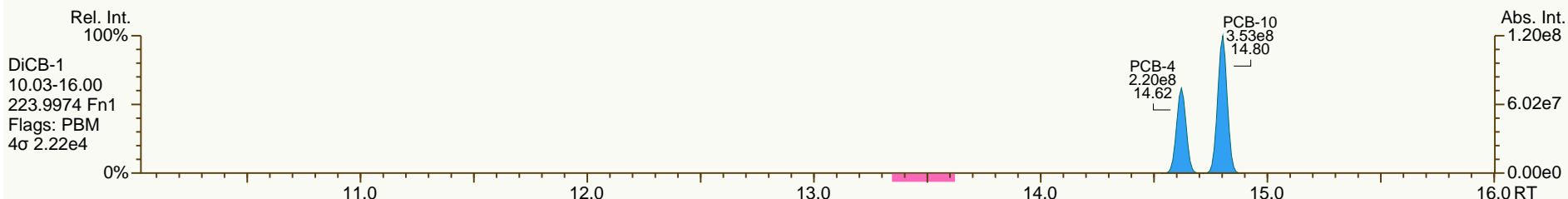
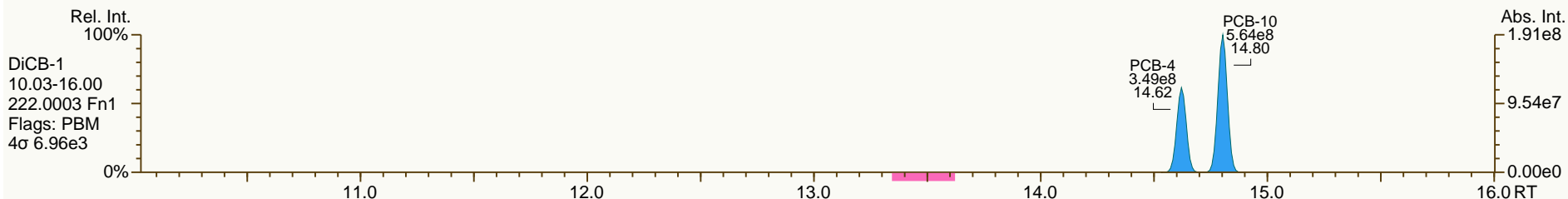
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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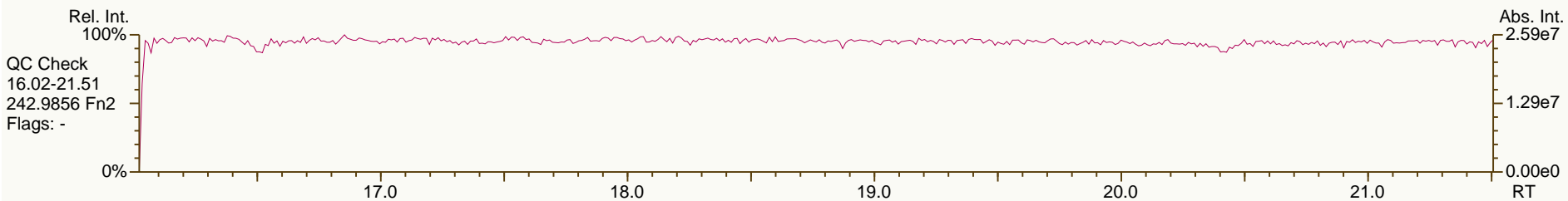
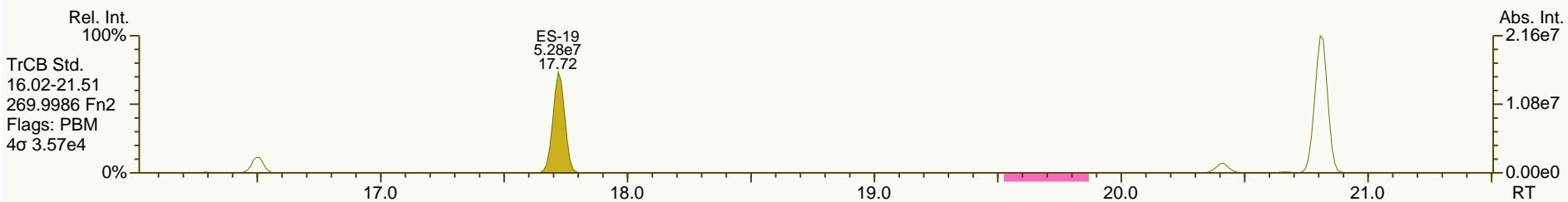
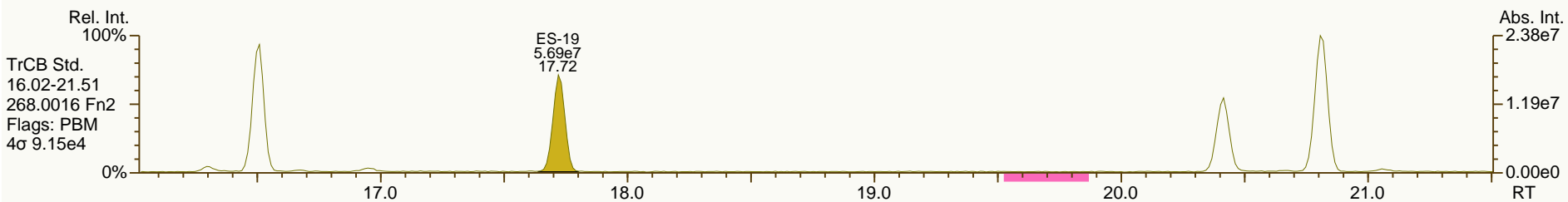
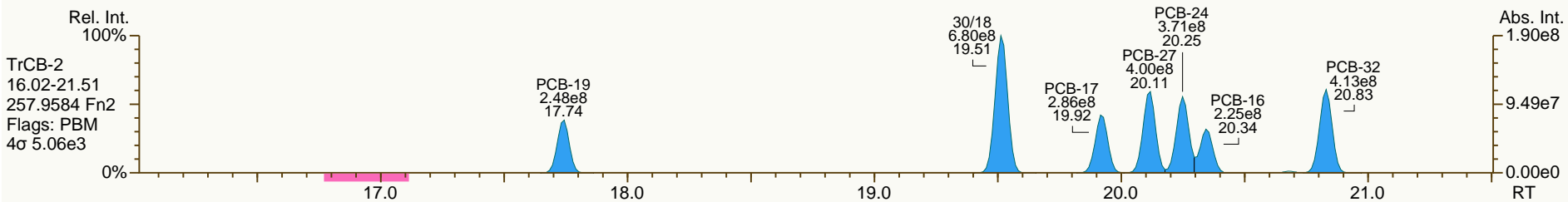
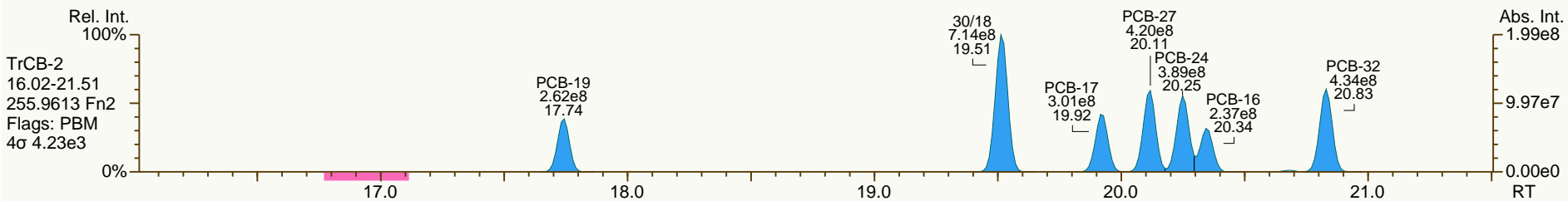




SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

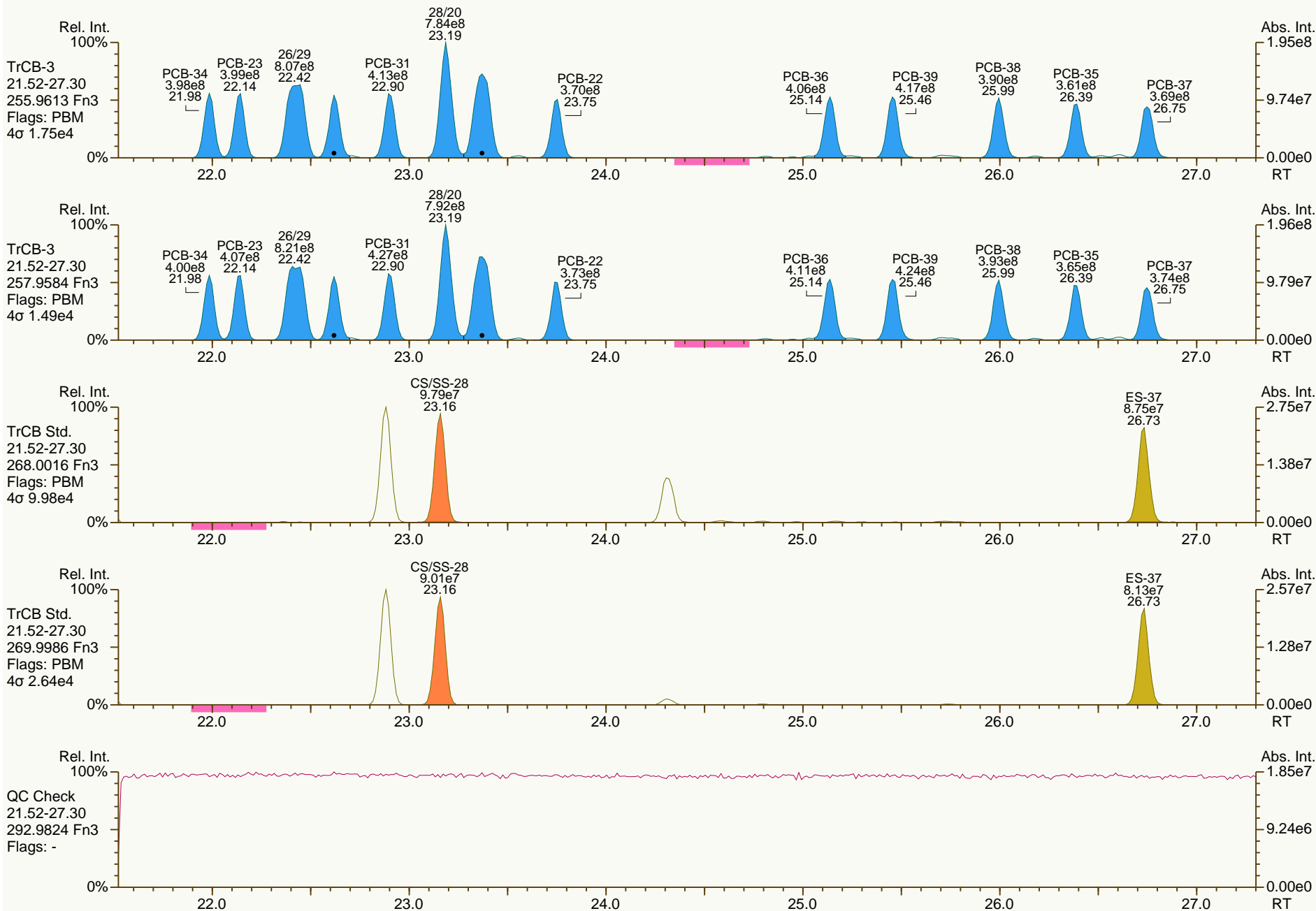
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

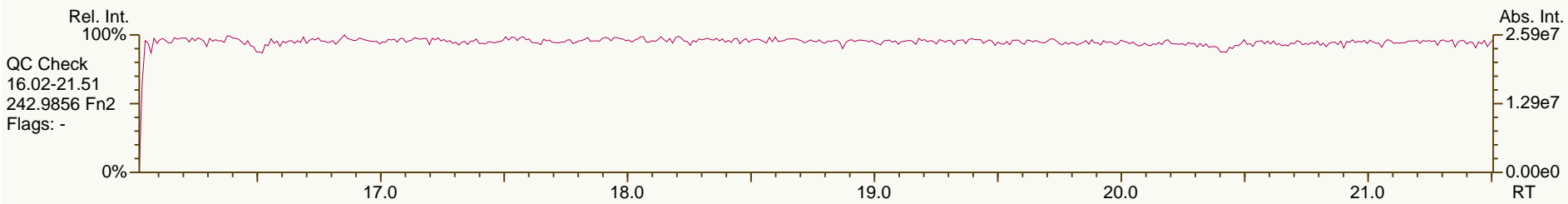
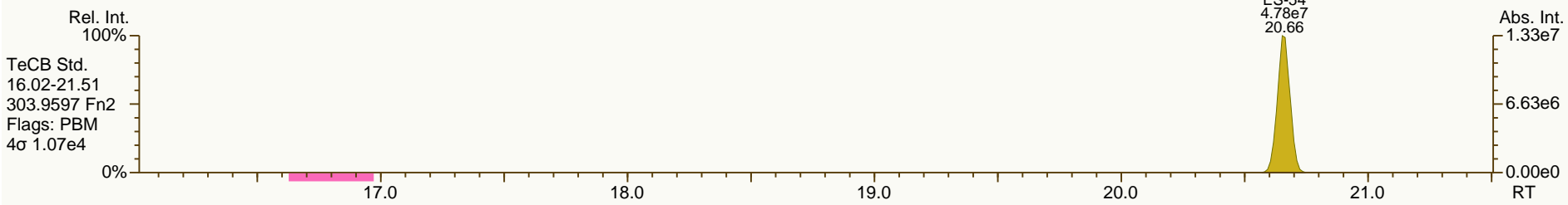
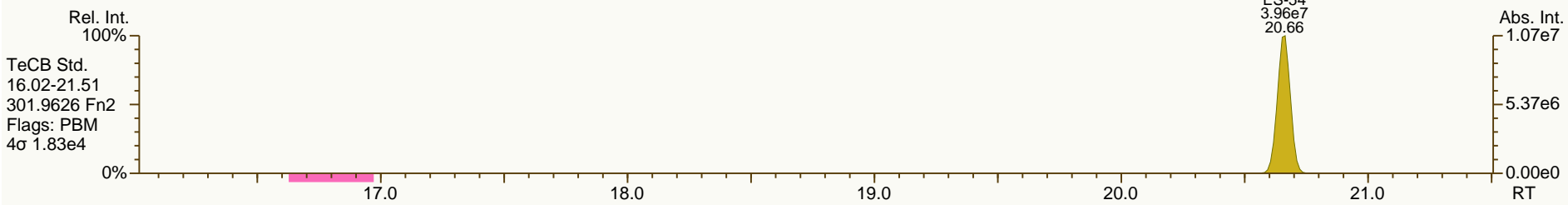
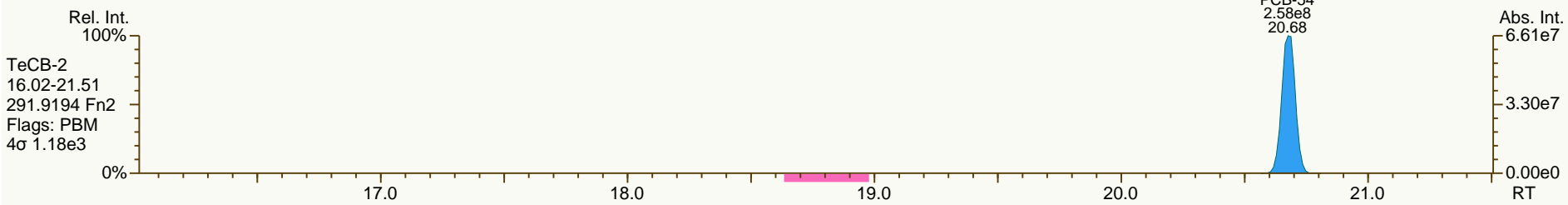
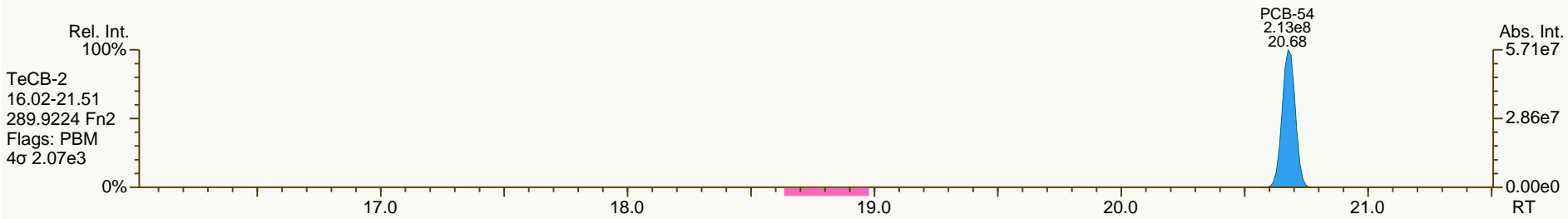
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

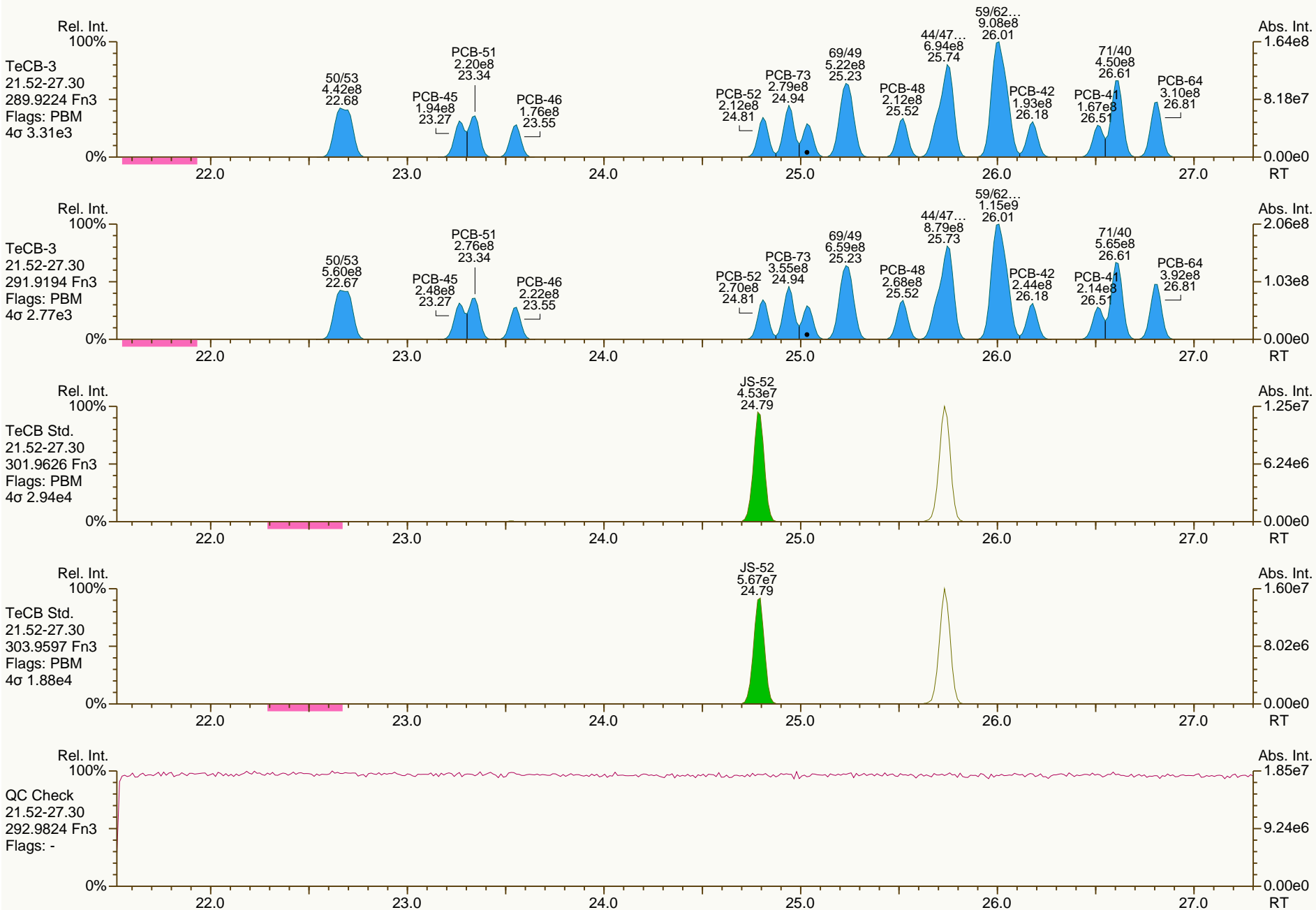
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

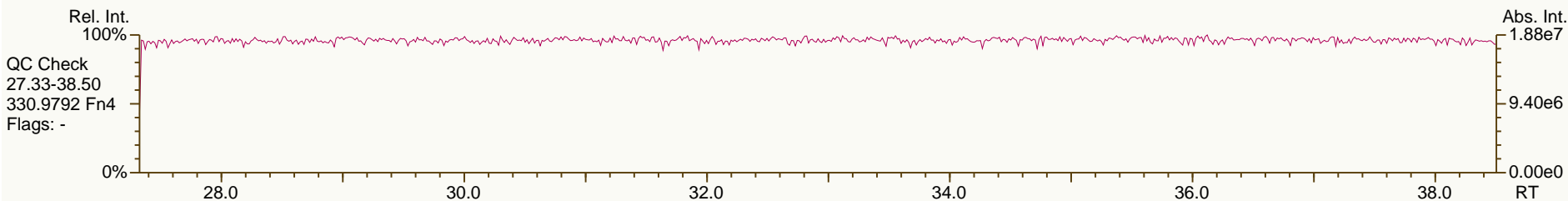
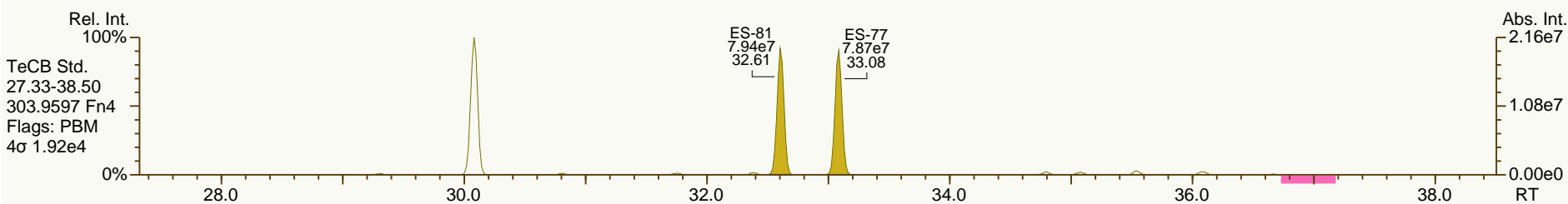
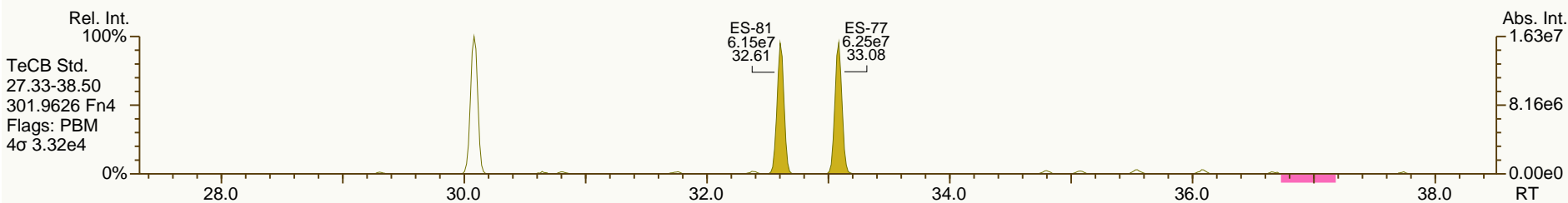
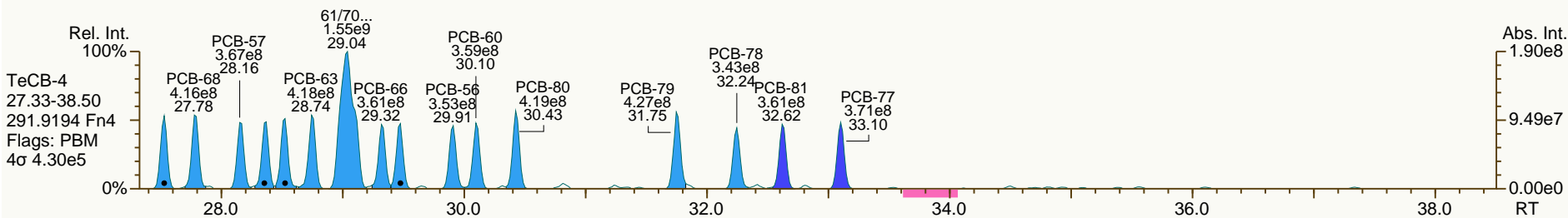
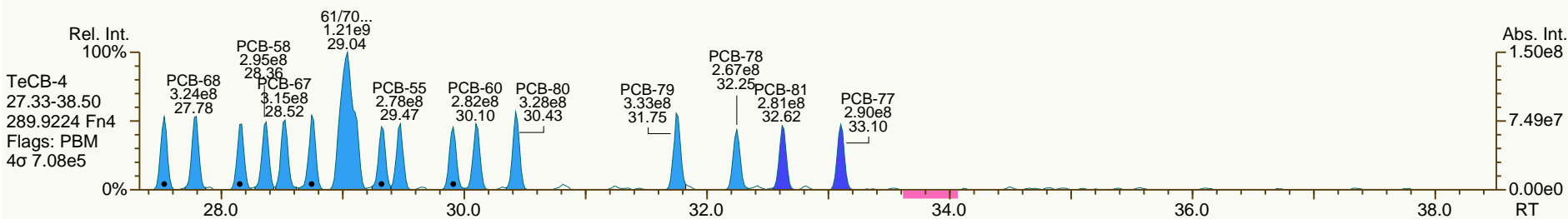
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

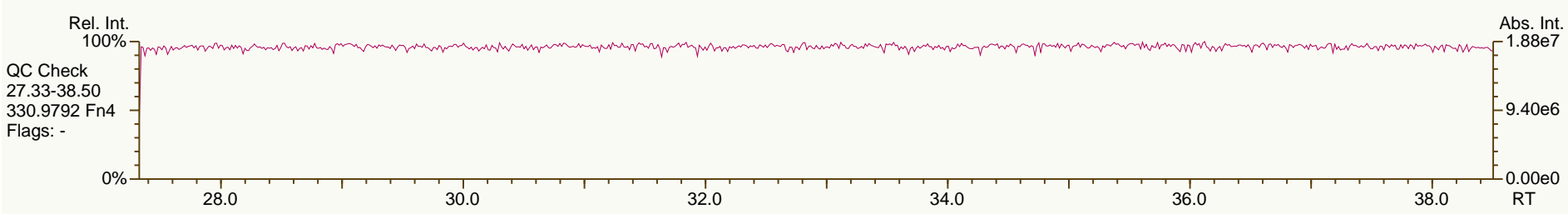
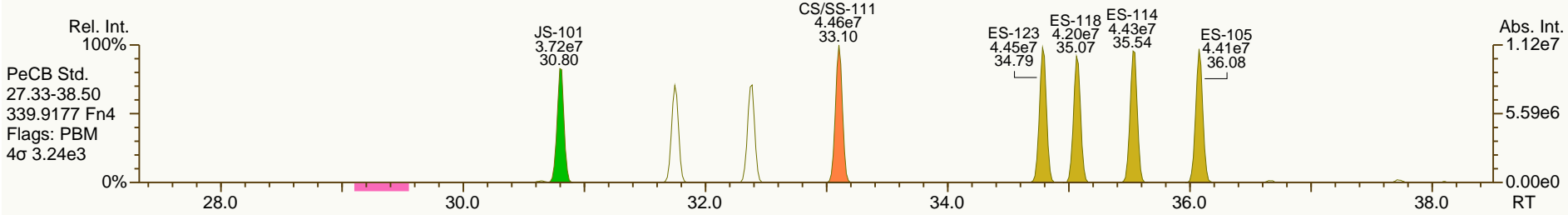
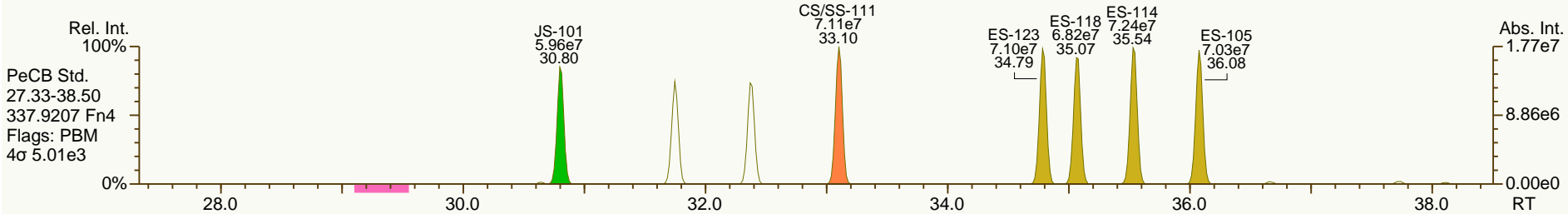
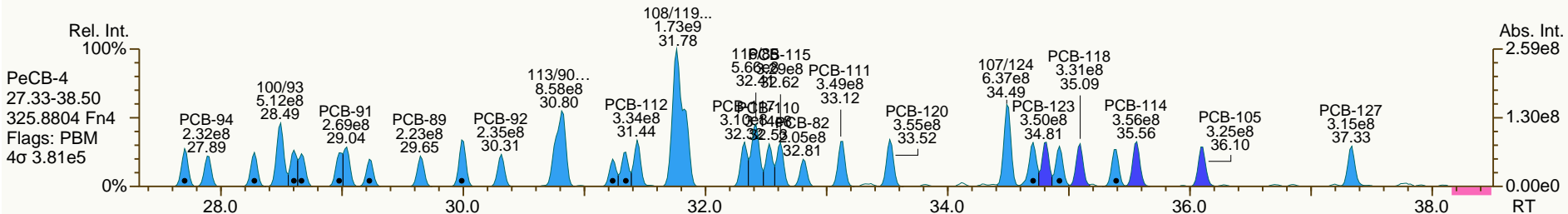
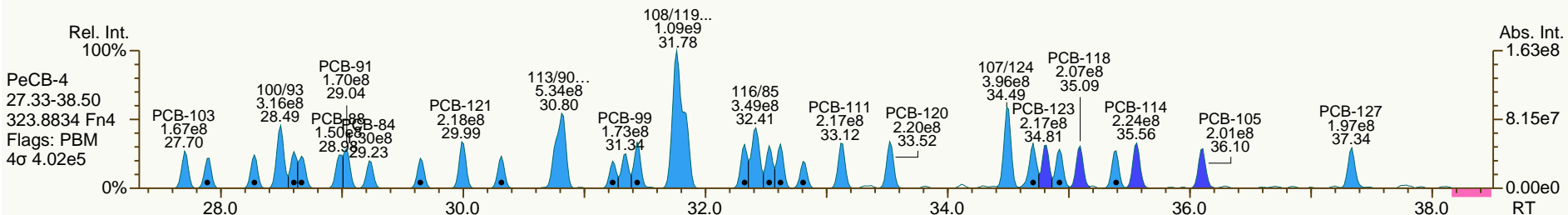
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

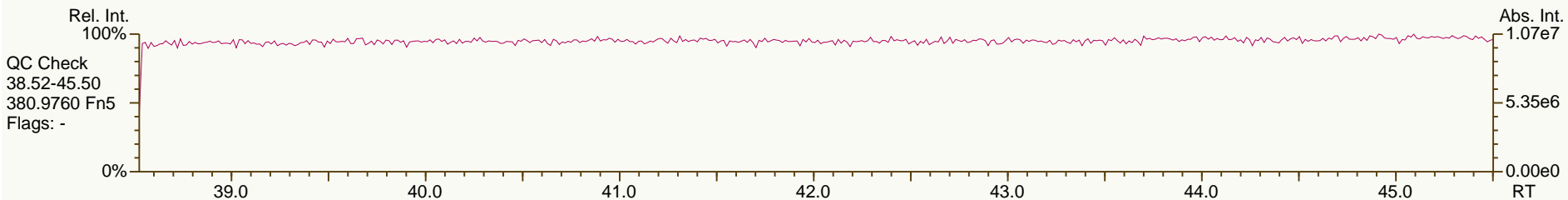
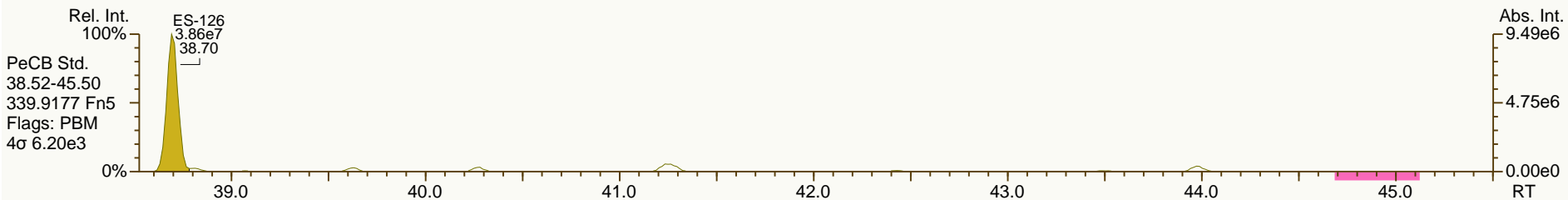
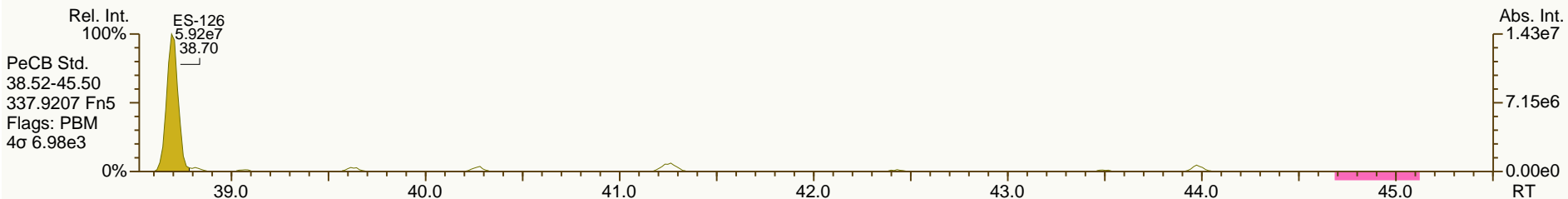
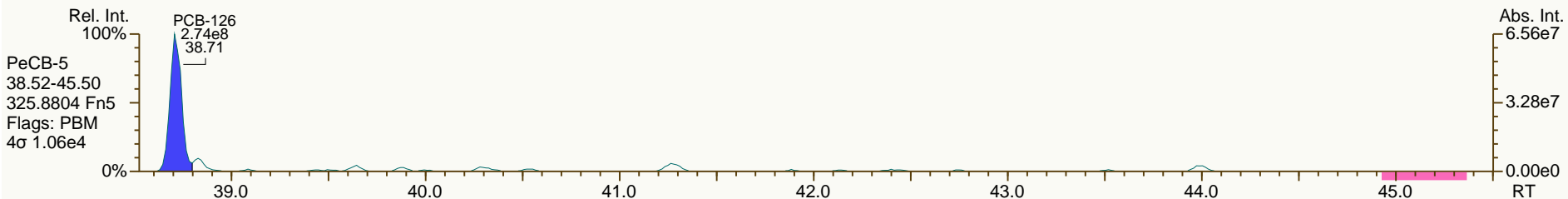
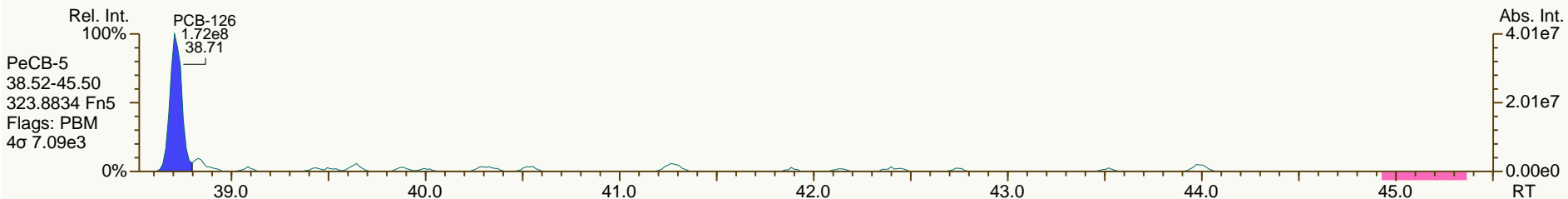
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

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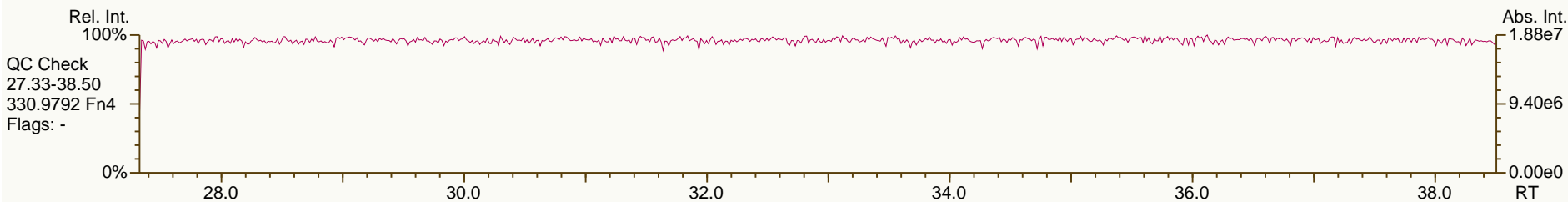
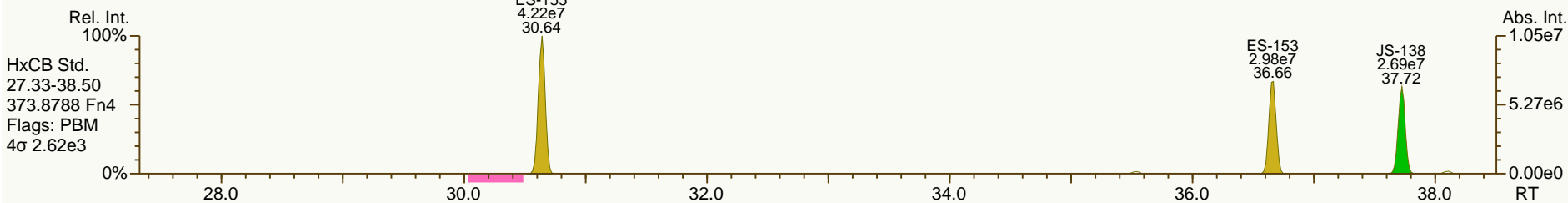
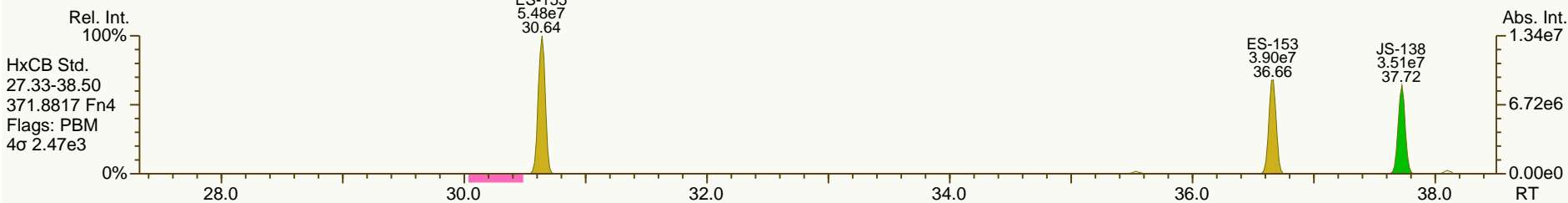
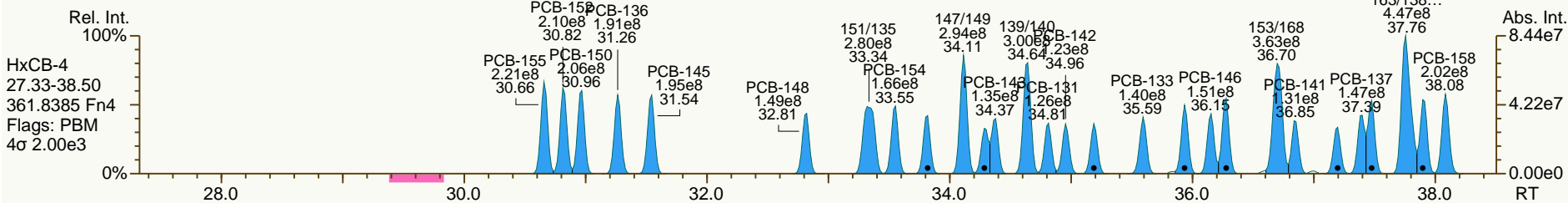
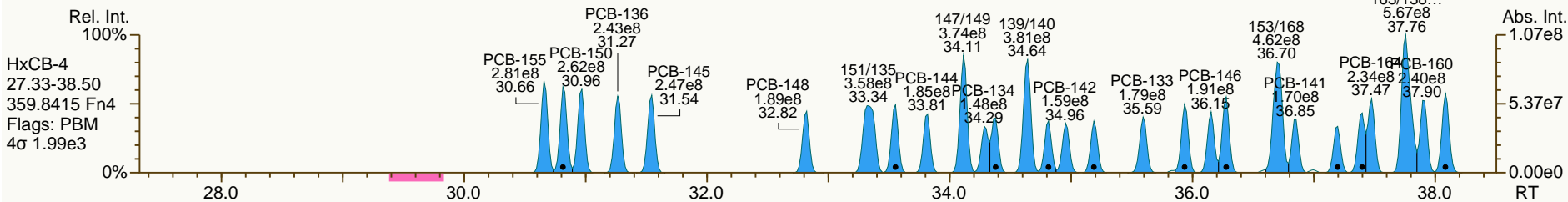




SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
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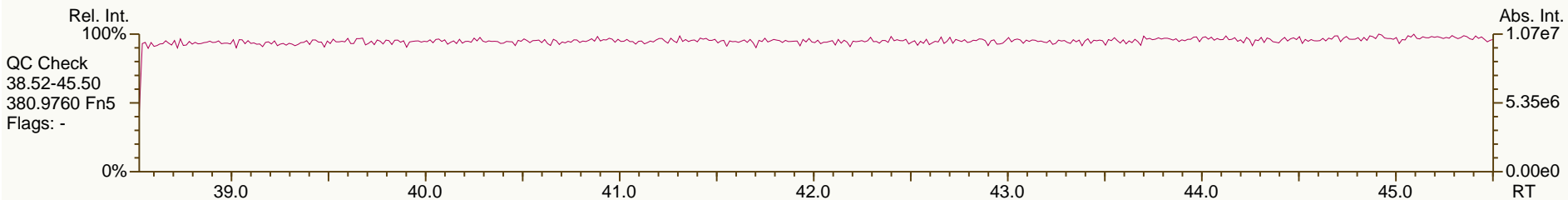
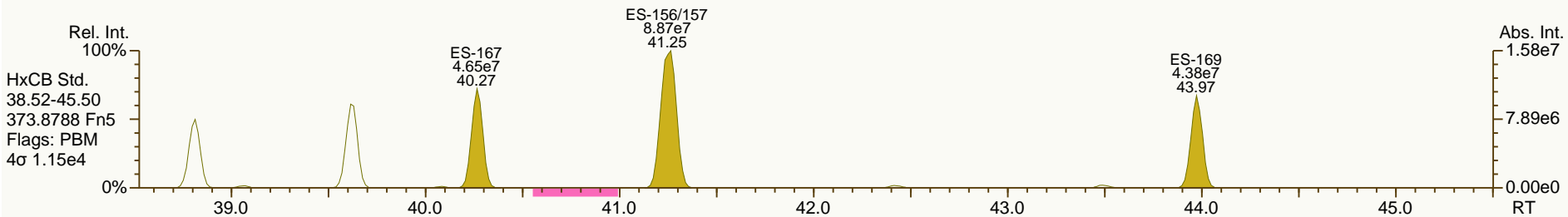
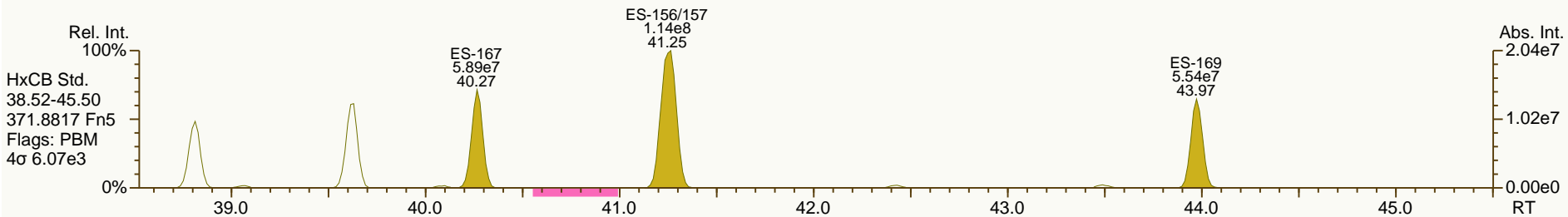
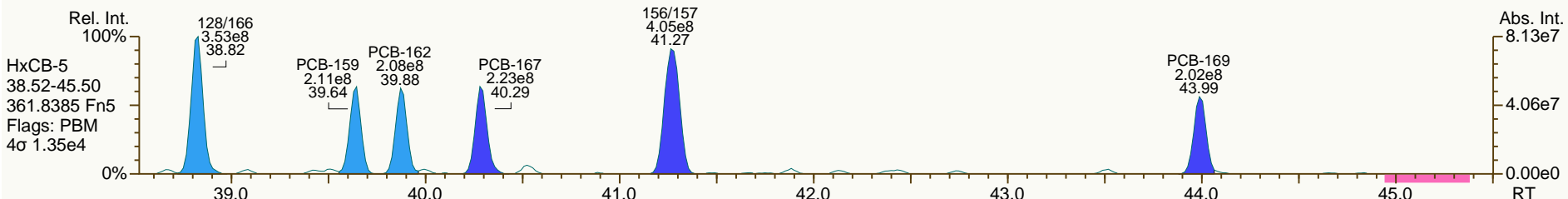
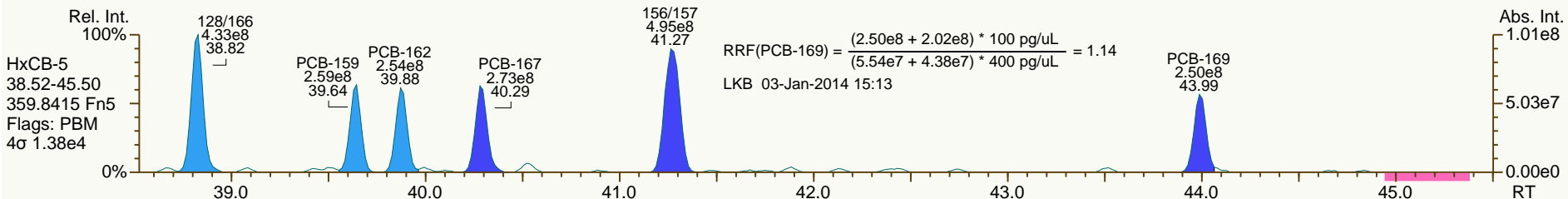
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User: LKB Datafile: 131220X06



SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

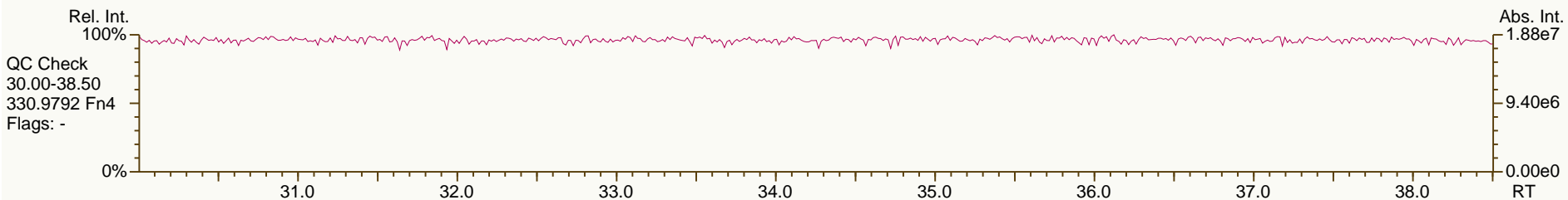
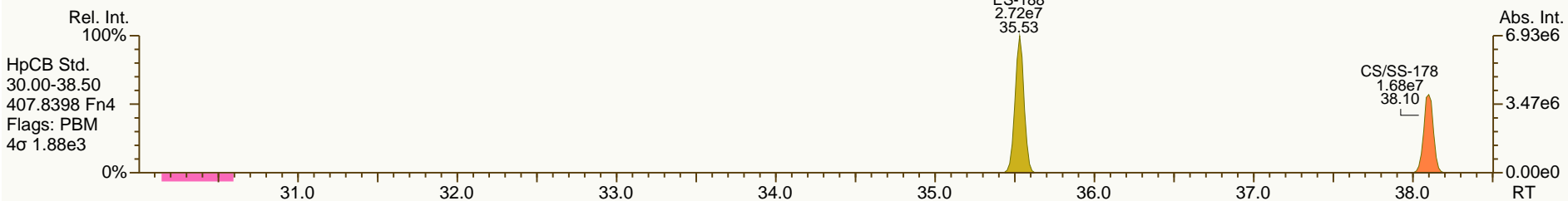
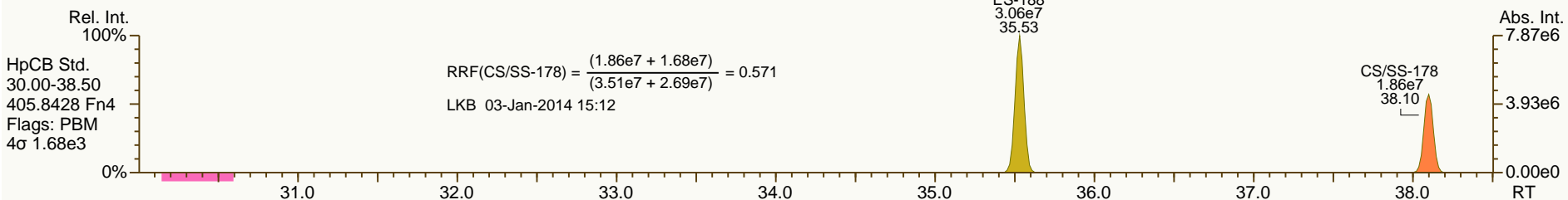
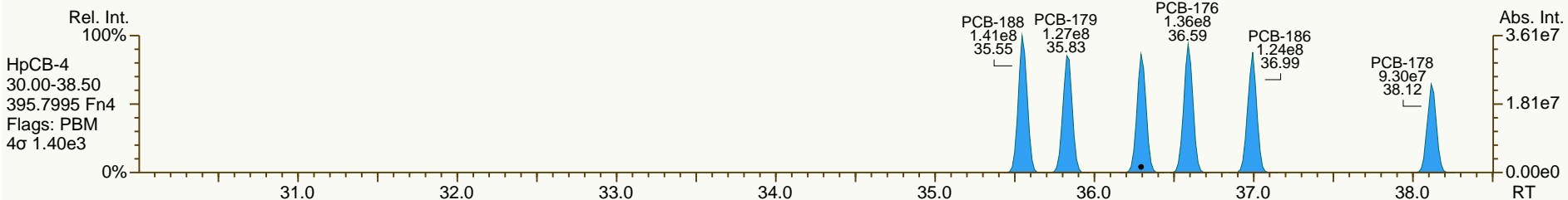
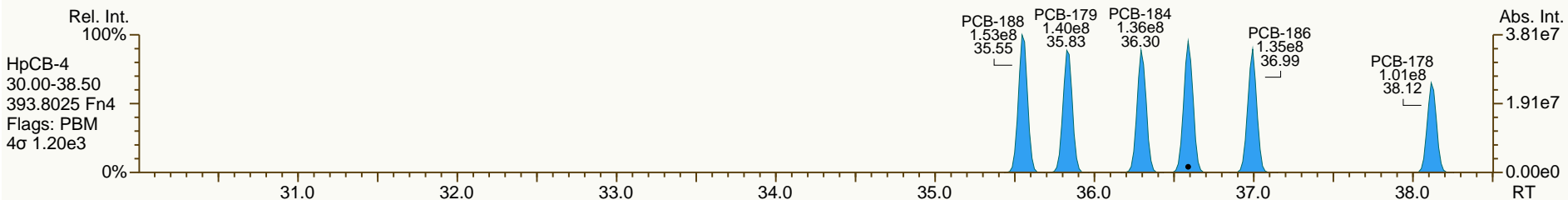
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

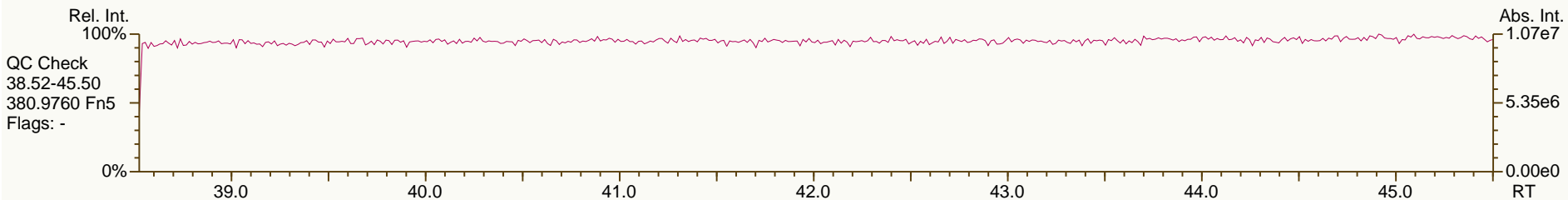
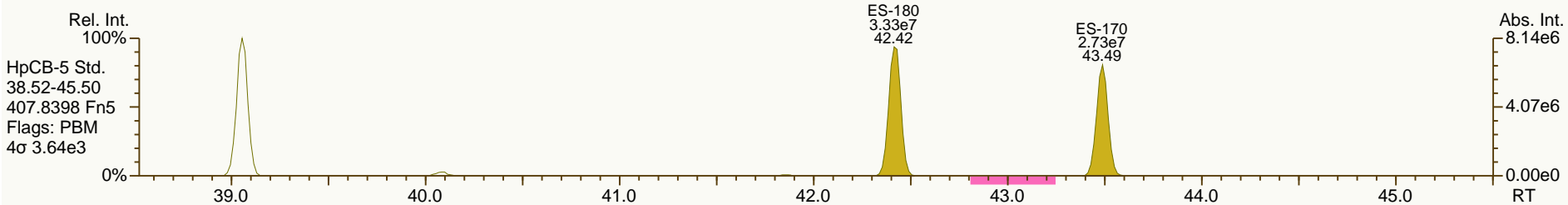
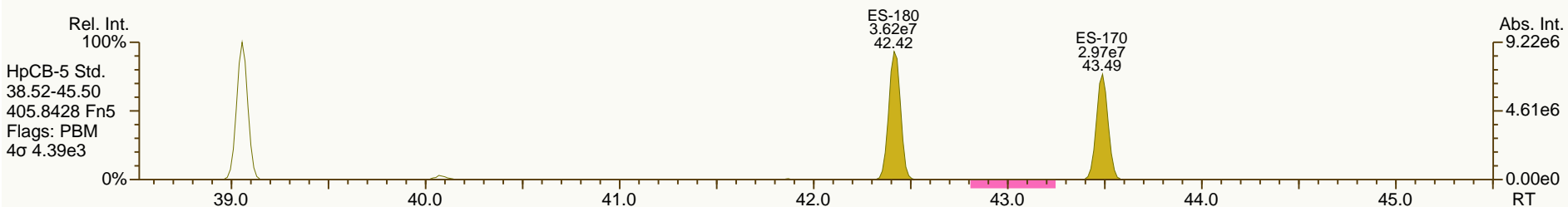
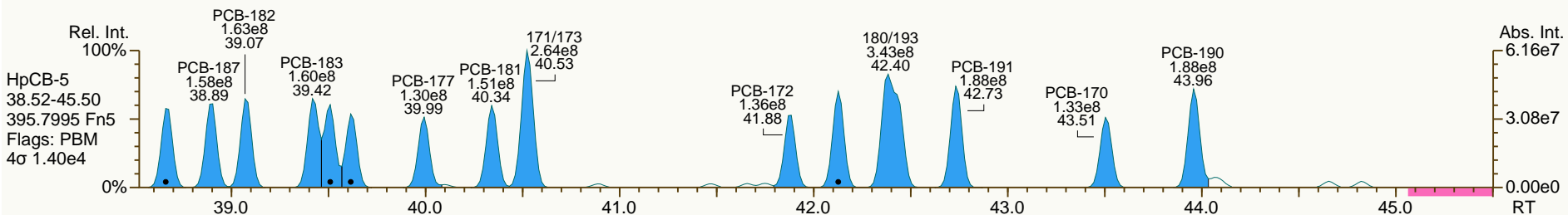
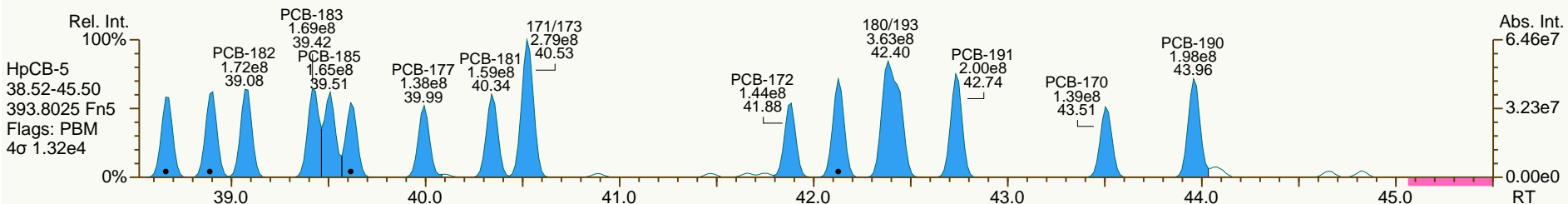
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

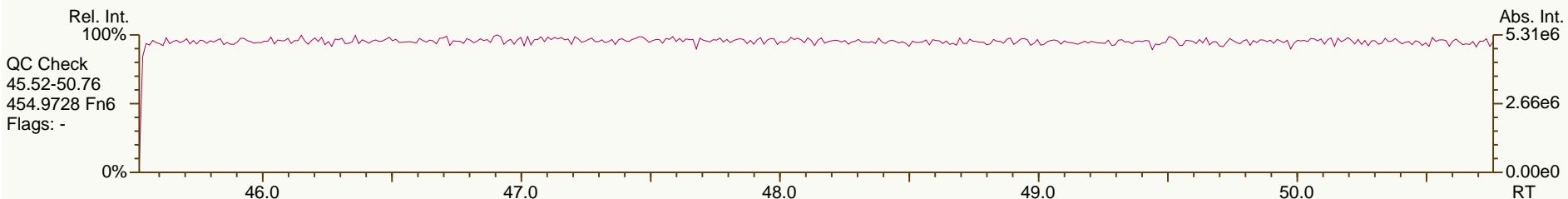
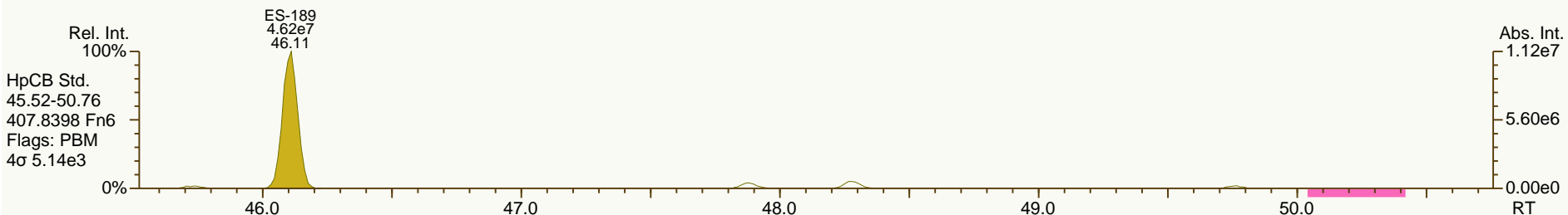
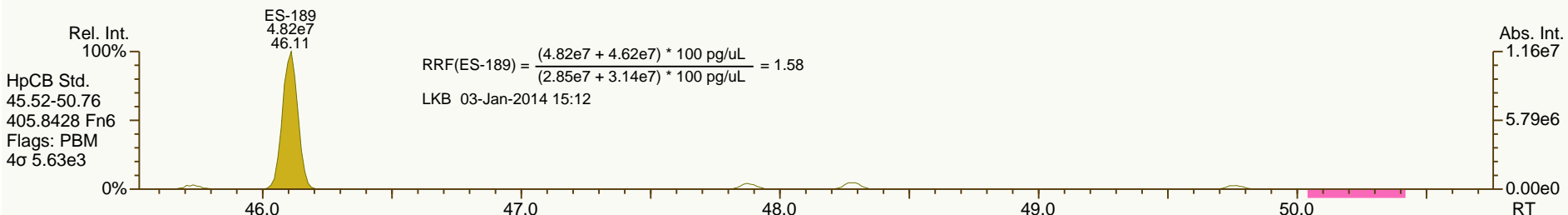
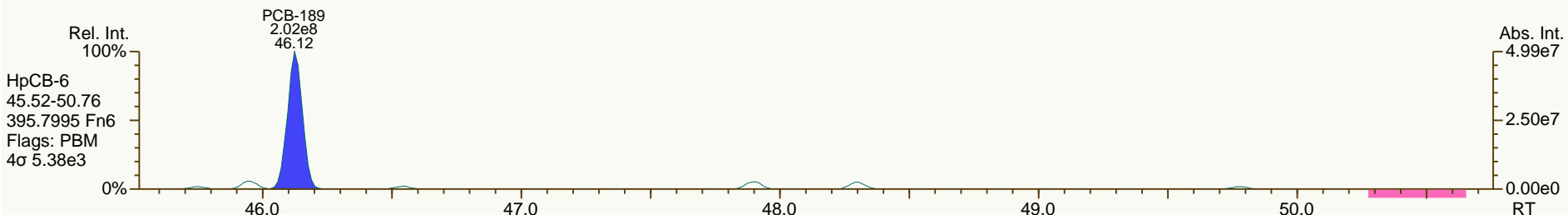
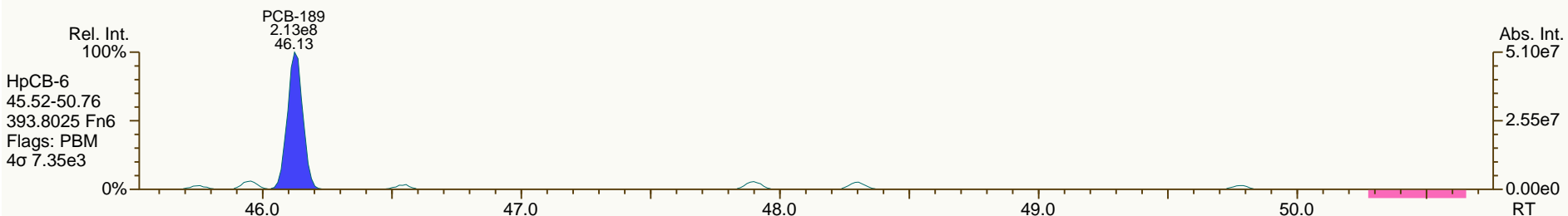
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

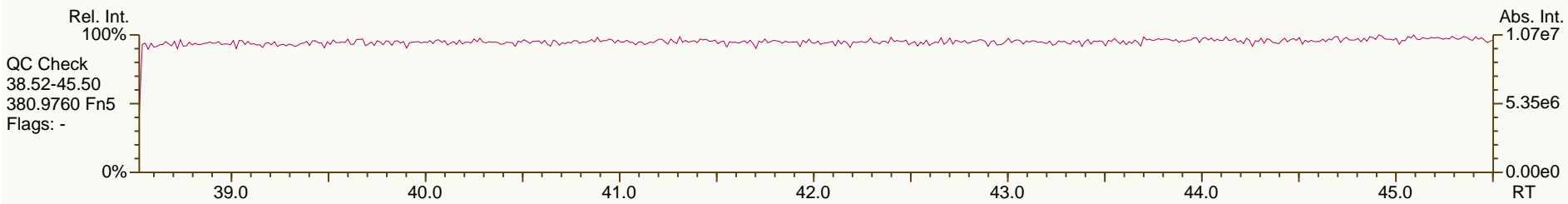
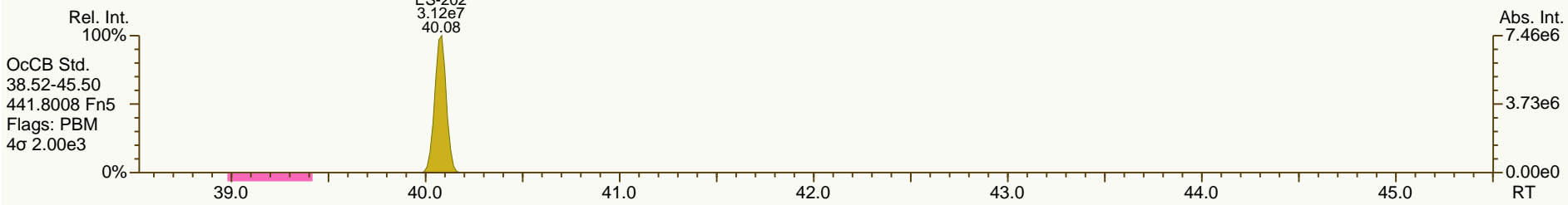
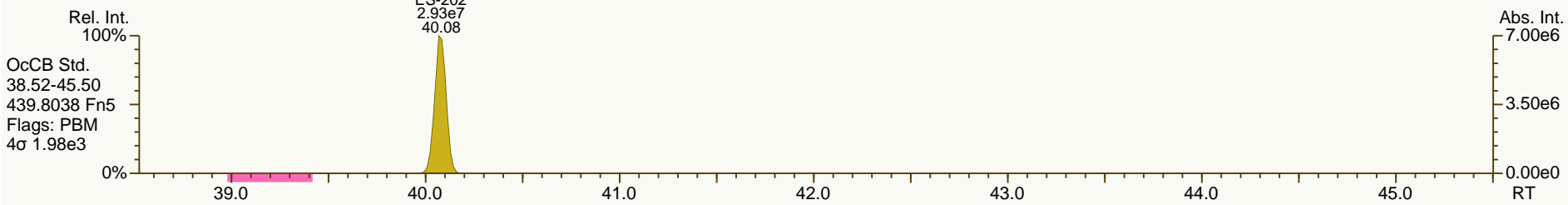
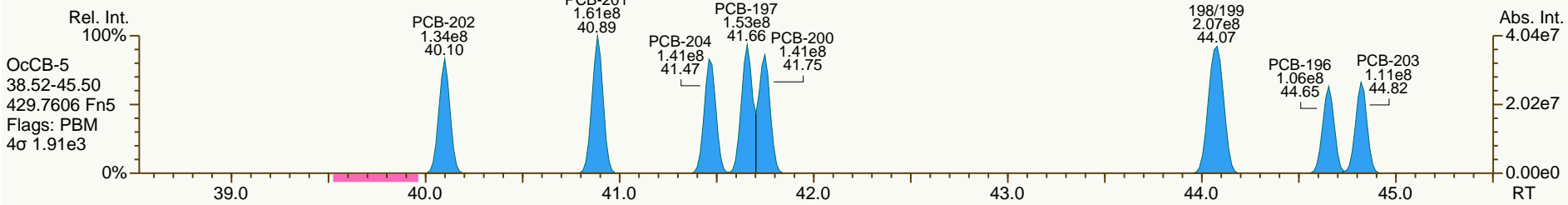
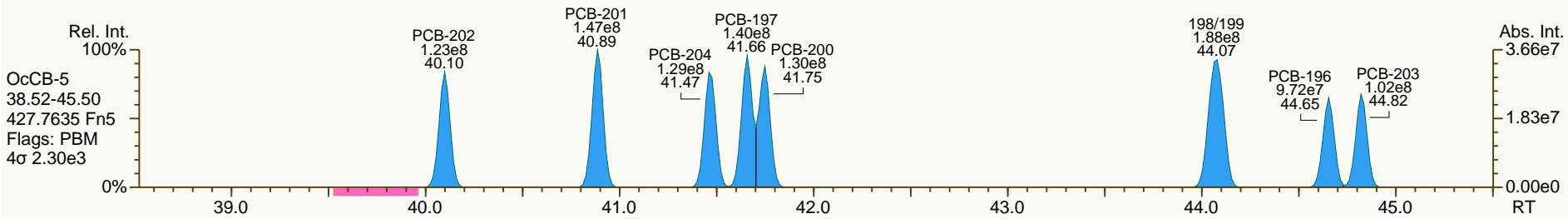
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

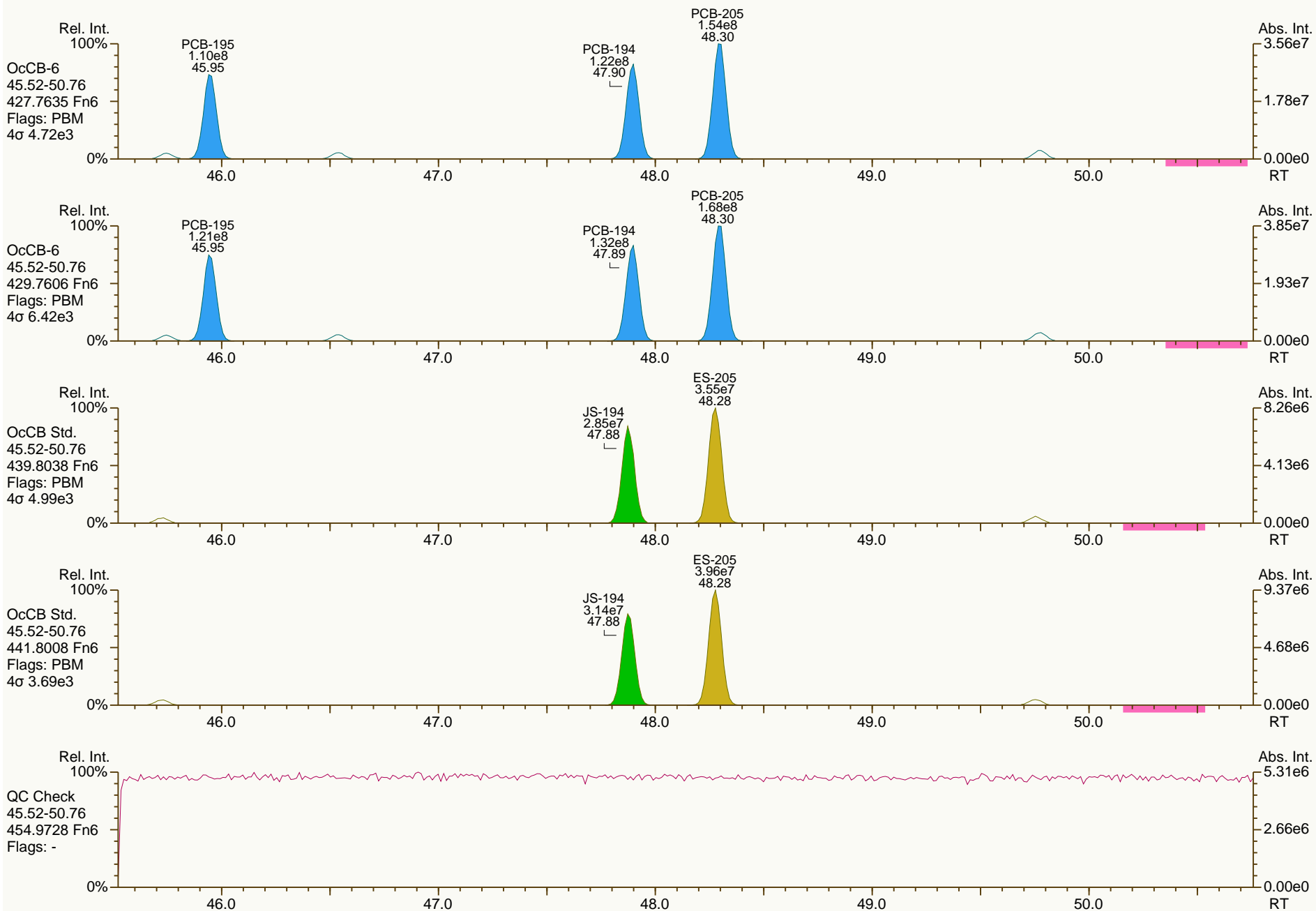
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SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

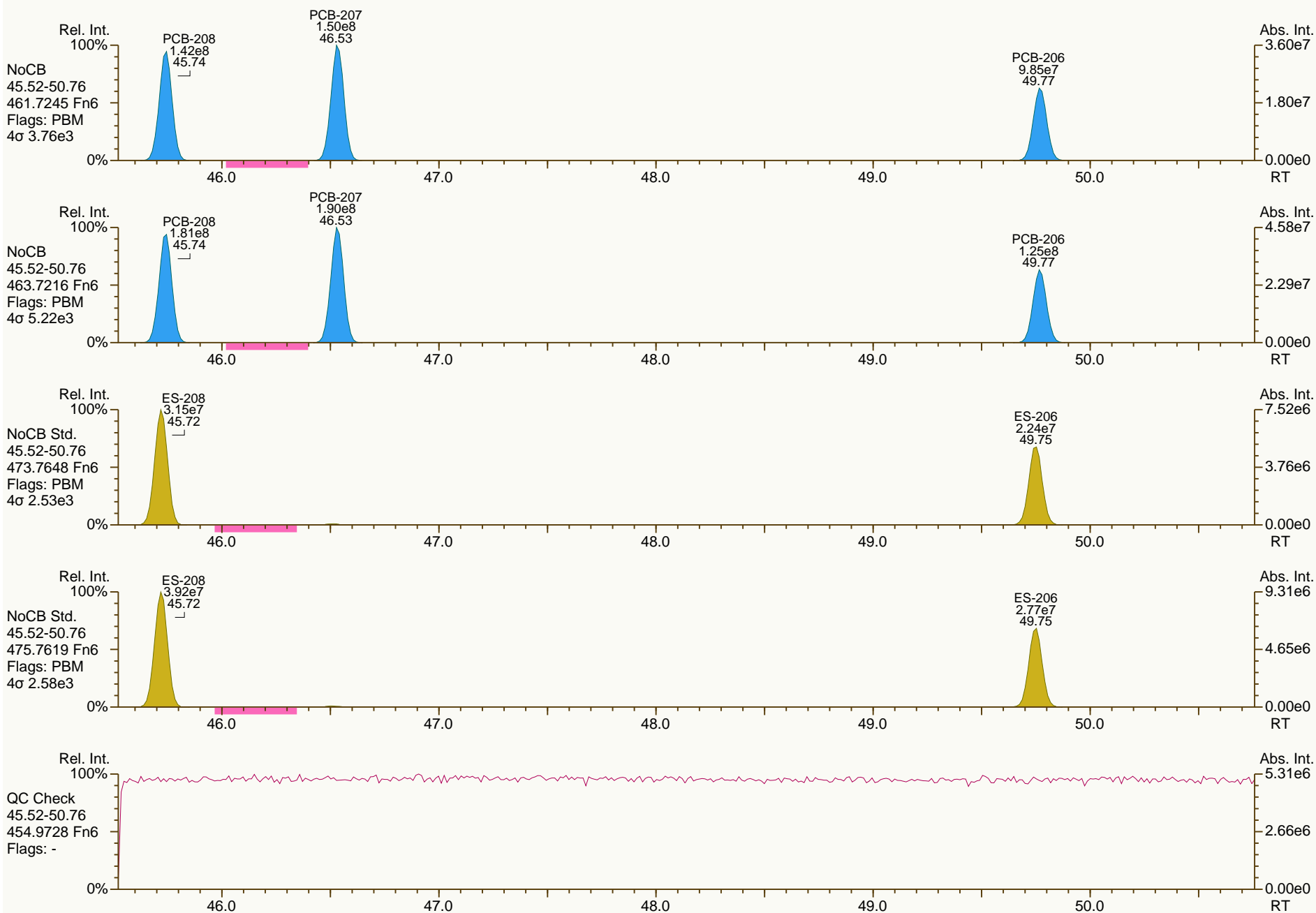
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SGS-AP ID: CS4\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
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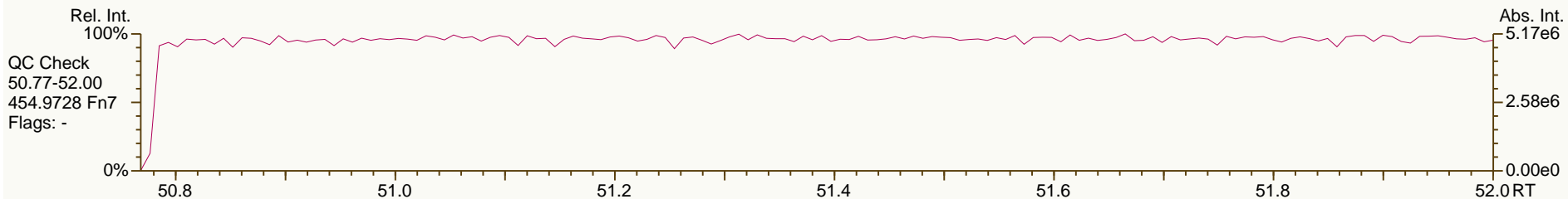
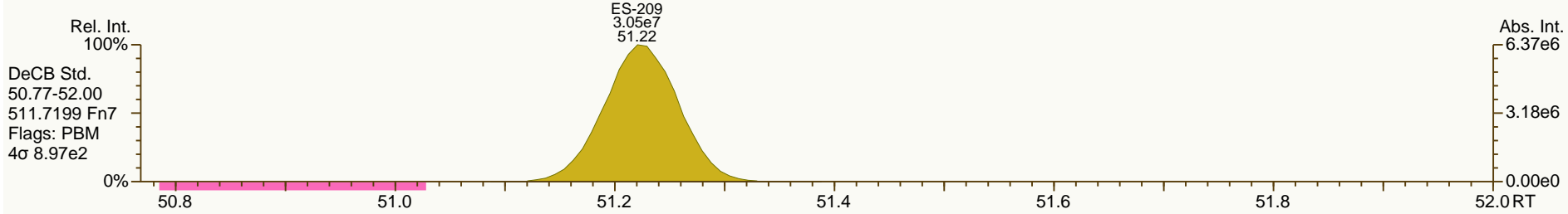
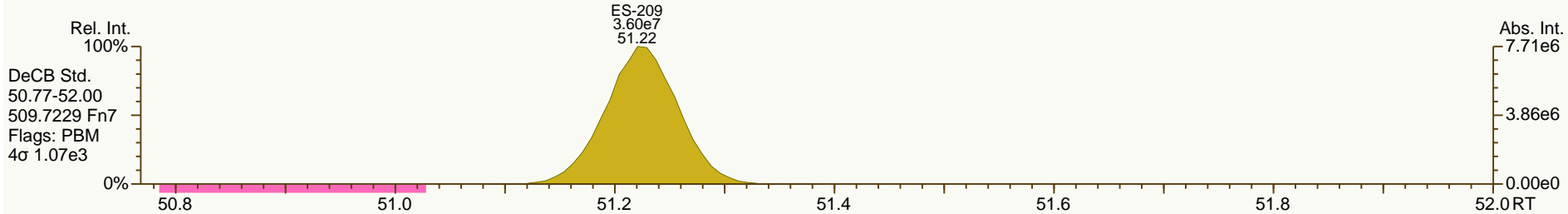
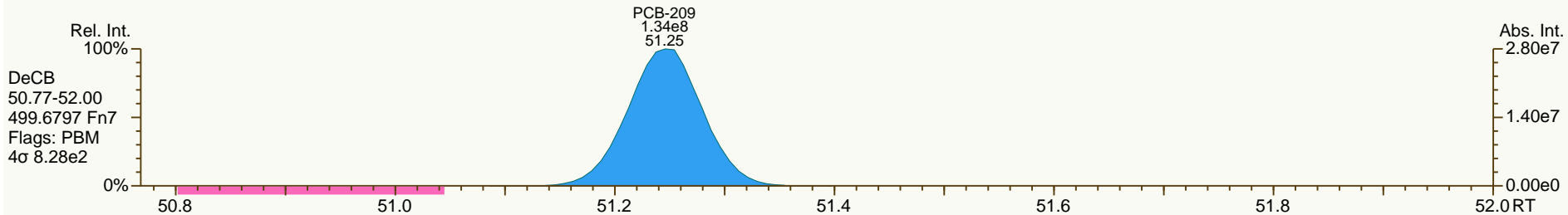
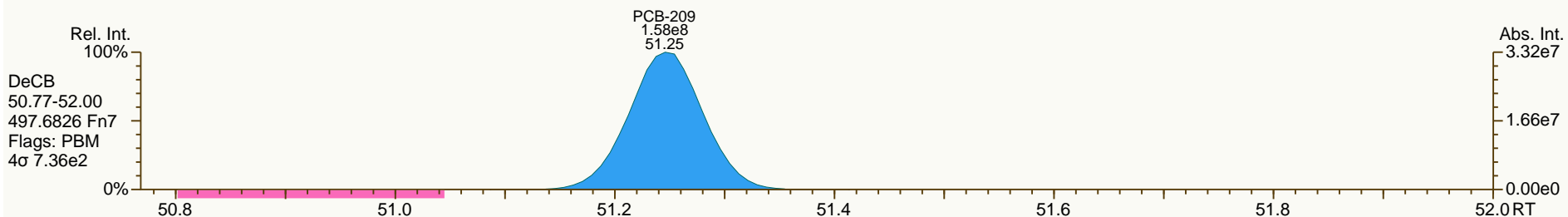




SGS-AP ID: CS4\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-79-2  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 41

Acq: 20-Dec-2013 18:59:38  
 User: LKB Datafile: 131220X06



PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	33.11	3.92E+09	0.79 Y	1.15	1.22	6.1%	
PCB-81 344'5'-TeCB	32.63	3.81E+09	0.78 Y	1.12	1.17	4.4%	
PCB-105 233'44'-PeCB	36.10	3.11E+09	0.62 Y	1.11	1.18	5.9%	
PCB-114 2344'5'-PeCB	35.56	3.45E+09	0.63 Y	1.20	1.29	6.9%	
PCB-118 23'44'5'-PeCB	35.09	3.20E+09	0.63 Y	1.19	1.25	4.7%	
PCB-123 23'44'5'-PeCB	34.82	3.32E+09	0.62 Y	1.21	1.25	3.0%	
PCB-126 33'44'5'-PeCB	38.72	2.76E+09	0.63 Y	1.11	1.21	9.8%	
PCB-156/157 ...-HxCB	41.27	5.55E+09	1.23 Y	1.10	1.17	6.3%	
PCB-167 23'44'55'-HxCB	40.29	3.01E+09	1.22 Y	1.16	1.23	5.8%	
PCB-169 33'44'55'-HxCB	43.99	2.75E+09	1.24 Y	1.12	1.17	4.3%	
PCB-189 233'44'55'-HpCB	46.12	2.52E+09	1.05 Y	1.07	1.16	7.9%	
PCB-209 DeCB	51.24	1.71E+09	1.18 Y	1.11	1.15	3.3%	
ES PCB-1	12.03	2.62E+08	3.21 Y	1.19	1.13	-5.6%	
ES PCB-3	14.35	2.47E+08	3.30 Y	1.09	1.06	-2.3%	
ES PCB-4	14.61	1.23E+08	1.63 Y	0.52	0.53	0.9%	
ES PCB-15	20.38	2.45E+08	1.53 Y	1.04	1.05	1.3%	
ES PCB-19	17.73	1.20E+08	1.07 Y	0.51	0.52	2.2%	
ES PCB-37	26.74	1.94E+08	1.09 Y	1.66	1.69	1.6%	
ES PCB-54	20.67	9.79E+07	0.83 Y	0.86	0.85	-0.9%	
ES PCB-77	33.09	1.61E+08	0.79 Y	1.38	1.40	1.2%	
ES PCB-81	32.61	1.63E+08	0.79 Y	1.37	1.42	4.0%	
ES PCB-104	25.67	8.86E+07	1.66 Y	0.80	0.78	-2.5%	
ES PCB-105	36.08	1.32E+08	1.58 Y	1.20	1.17	-2.9%	
ES PCB-114	35.54	1.34E+08	1.60 Y	1.22	1.19	-2.5%	
ES PCB-118	35.07	1.28E+08	1.60 Y	1.16	1.14	-1.9%	
ES PCB-123	34.79	1.33E+08	1.59 Y	1.19	1.18	-0.8%	
ES PCB-126	38.70	1.14E+08	1.54 Y	1.03	1.01	-2.2%	
ES PCB-153	36.66	8.16E+07	1.32 Y	1.11	1.10	-1.2%	
ES PCB-155	30.64	1.13E+08	1.29 Y	1.59	1.52	-4.1%	
ES PCB-156/157	41.25	2.38E+08	1.27 Y	1.60	1.61	0.4%	
ES PCB-167	40.27	1.22E+08	1.26 Y	1.67	1.65	-1.0%	
ES PCB-169	43.97	1.17E+08	1.27 Y	1.56	1.58	1.8%	
ES PCB-170	43.49	6.70E+07	1.09 Y	0.95	0.97	2.9%	
ES PCB-180	42.42	8.32E+07	1.09 Y	1.14	1.21	6.3%	
ES PCB-188	35.53	6.88E+07	1.10 Y	0.94	0.93	-1.1%	
ES PCB-189	46.11	1.09E+08	1.01 Y	1.58	1.58	-0.3%	
ES PCB-202	40.08	7.17E+07	0.94 Y	0.97	0.97	-0.2%	
ES PCB-205	48.27	8.57E+07	0.89 Y	1.24	1.25	0.1%	
ES PCB-206	49.75	5.62E+07	0.81 Y	0.83	0.82	-1.6%	
ES PCB-208	45.72	8.18E+07	0.80 Y	1.17	1.19	1.2%	
ES PCB-209	51.22	7.42E+07	1.20 Y	1.11	1.08	-2.8%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	23.16	2.10E+08	1.08 Y	1.11	1.09	-2.3%	
SS PCB-111	33.10	1.37E+08	1.60 Y	1.03	1.03	0.0%	
SS PCB-178	38.10	4.42E+07	1.12 Y	0.62	0.64	3.8%	
CS PCB-28	23.16	2.10E+08	1.08 Y	1.85	1.83	-0.7%	
CS PCB-111	33.10	1.37E+08	1.60 Y	1.22	1.21	-0.7%	
CS PCB-178	38.10	4.42E+07	1.12 Y	0.58	0.60	2.7%	
JS PCB-9	16.61	2.33E+08	1.55 Y	-	-	-	
JS PCB-52	24.79	1.15E+08	0.81 Y	-	-	-	
JS PCB-101	30.81	1.13E+08	1.60 Y	-	-	-	
JS PCB-138	37.73	7.41E+07	1.32 Y	-	-	-	
JS PCB-194	47.87	6.88E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

PCB QC Summary - Ax2 Detail					Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	12.05	4.77E+09	2.71 Y	0.95	0.91	-4.4%	
PCB-2 3-MoCB	14.18	5.06E+09	2.92 Y	1.03	1.02	-0.9%	
PCB-3 4-MoCB	14.37	4.95E+09	2.98 Y	1.01	1.00	-0.6%	
PCB-4 22'-DiCB	14.63	3.16E+09	1.59 Y	1.23	1.29	4.4%	
PCB-10 26'-DiCB	14.81	5.06E+09	1.58 Y	1.98	2.06	4.1%	
PCB-9 25'-DiCB	16.63	4.77E+09	1.62 Y	0.95	0.97	2.9%	
PCB-7 24'-DiCB	16.80	5.47E+09	1.65 Y	1.05	1.11	6.5%	
PCB-6 23'-DiCB	17.02	5.14E+09	1.63 Y	1.00	1.05	5.3%	
PCB-5 23'-DiCB	17.33	5.14E+09	1.64 Y	1.00	1.05	4.7%	
PCB-8 24'-DiCB	17.45	5.25E+09	1.64 Y	1.03	1.07	3.7%	
PCB-14 35'-DiCB	19.02	6.12E+09	1.60 Y	1.18	1.25	5.8%	
PCB-11 33'-DiCB	19.81	5.26E+09	1.63 Y	1.01	1.07	6.2%	
PCB-13/12 34'/34'-DiCB	20.10	1.05E+10	1.63 Y	0.99	1.07	8.0%	
PCB-15 44'-DiCB	20.39	5.27E+09	1.63 Y	1.02	1.08	5.5%	
PCB-19 22'6'-TrCB	17.75	2.86E+09	1.05 Y	1.15	1.19	3.6%	
PCB-30/18 246/22'5'-TrCB	19.52	7.69E+09	1.04 Y	1.54	1.60	4.0%	
PCB-17 22'4'-TrCB	19.93	3.33E+09	1.05 Y	1.31	1.38	6.0%	
PCB-27 23'6'-TrCB	20.12	4.61E+09	1.05 Y	1.82	1.92	5.5%	
PCB-24 236'-TrCB	20.26	4.39E+09	1.04 Y	1.72	1.83	5.9%	
PCB-16 22'3'-TrCB	20.35	2.55E+09	1.05 Y	1.01	1.06	5.3%	
PCB-32 24'6'-TrCB	20.84	4.79E+09	1.05 Y	1.92	1.99	3.8%	
PCB-34 23'5'-TrCB	21.99	4.49E+09	1.00 Y	1.14	1.16	2.3%	
PCB-23 235'-TrCB	22.14	4.54E+09	0.98 Y	1.16	1.17	1.5%	
PCB-26/29 23'5'/245'-TrCB	22.43	9.34E+09	0.99 Y	1.17	1.21	3.0%	
PCB-25 23'4'-TrCB	22.63	4.59E+09	0.99 Y	1.16	1.18	2.4%	
PCB-31 24'5'-TrCB	22.91	4.84E+09	0.99 Y	1.23	1.25	2.1%	
PCB-28/20 244'/233'-TrCB	23.20	9.02E+09	0.98 Y	1.13	1.17	2.9%	
PCB-21/33 234'/23'4'-TrCB	23.38	9.35E+09	0.97 Y	1.17	1.21	2.9%	
PCB-22 234'-TrCB	23.75	4.32E+09	0.98 Y	1.08	1.12	3.4%	
PCB-36 33'5'-TrCB	25.14	4.81E+09	0.99 Y	1.17	1.24	6.2%	
PCB-39 34'5'-TrCB	25.46	4.93E+09	0.98 Y	1.21	1.27	5.1%	
PCB-38 345'-TrCB	26.00	4.32E+09	1.00 Y	1.10	1.11	0.9%	
PCB-35 33'4'-TrCB	26.39	4.24E+09	0.99 Y	1.04	1.10	5.3%	
PCB-37 344'-TrCB	26.76	4.48E+09	0.99 Y	1.08	1.16	7.4%	
PCB-54 22'66'-TeCB	20.69	2.66E+09	0.82 Y	1.35	1.36	0.3%	
PCB-50/53 22'46'/22'56'-TeCB	22.68	5.80E+09	0.79 Y	0.88	0.89	1.5%	
PCB-45 22'36'-TeCB	23.28	2.69E+09	0.79 Y	0.77	0.83	7.6%	
PCB-51 22'46'-TeCB	23.35	2.73E+09	0.80 Y	0.86	0.84	-2.6%	
PCB-46 22'36'-TeCB	23.56	2.31E+09	0.79 Y	0.70	0.71	1.2%	
PCB-52 22'55'-TeCB	24.82	2.76E+09	0.79 Y	0.84	0.85	0.5%	
PCB-73 23'5'6'-TeCB	24.95	3.82E+09	0.79 Y	1.11	1.17	5.5%	
PCB-43 22'35'-TeCB	25.05	2.28E+09	0.79 Y	0.71	0.70	-1.5%	
PCB-69/49 23'46'/22'45'-TeCB	25.24	6.91E+09	0.79 Y	1.02	1.06	3.6%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56		
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7				
Acquired:	20-DEC-2013 20:49					
Datafile:	131220X08					
Name	RT	Response	RA	ICAL	RRF	Dev'n
PCB-48 22'45'-TeCB	25.52	2.83E+09	0.79 Y	0.84	0.87	3.4%
PCB-44/47/65 ...-TeCB	25.74	9.10E+09	0.79 Y	0.90	0.93	3.0%
PCB-59/62/75 ...-TeCB	26.02	1.15E+10	0.81 Y	1.17	1.18	1.4%
PCB-42 22'34'-TeCB	26.18	2.53E+09	0.79 Y	0.76	0.78	1.9%
PCB-41 22'34'-TeCB	26.52	2.38E+09	0.78 Y	0.69	0.73	5.0%
PCB-71/40 23'4'6/22'33'-TeCB	26.61	5.79E+09	0.79 Y	0.86	0.89	3.5%
PCB-64 234'6'-TeCB	26.81	4.17E+09	0.79 Y	1.22	1.28	4.8%
PCB-72 23'55'-TeCB	27.53	4.01E+09	0.79 Y	1.21	1.23	1.8%
PCB-68 23'45'-TeCB	27.79	4.24E+09	0.78 Y	1.28	1.30	1.9%
PCB-57 233'5'-TeCB	28.16	3.81E+09	0.79 Y	1.16	1.17	0.4%
PCB-58 233'5'-TeCB	28.37	4.00E+09	0.79 Y	1.18	1.23	4.1%
PCB-67 23'45'-TeCB	28.53	4.17E+09	0.79 Y	1.26	1.28	1.6%
PCB-63 234'5'-TeCB	28.75	4.37E+09	0.79 Y	1.30	1.34	3.2%
PCB-61/70/74/76 ...-TeCB	29.05	1.58E+10	0.79 Y	1.20	1.21	1.4%
PCB-66 23'44'-TeCB	29.33	3.68E+09	0.78 Y	1.10	1.13	2.4%
PCB-55 233'4'-TeCB	29.47	3.76E+09	0.79 Y	1.12	1.15	3.0%
PCB-56 233'4'-TeCB	29.91	3.68E+09	0.79 Y	1.11	1.13	1.6%
PCB-60 2344'-TeCB	30.10	3.79E+09	0.78 Y	1.14	1.16	2.6%
PCB-80 33'55'-TeCB	30.43	4.36E+09	0.79 Y	1.31	1.34	1.9%
PCB-79 33'45'-TeCB	31.76	4.29E+09	0.79 Y	1.31	1.32	0.8%
PCB-78 33'45'-TeCB	32.25	3.62E+09	0.79 Y	1.06	1.11	4.6%
PCB-104 22'466'-PeCB	25.69	2.58E+09	0.65 Y	1.43	1.46	1.6%
PCB-96 22'366'-PeCB	26.01	2.25E+09	0.65 Y	1.23	1.27	3.5%
PCB-103 22'45'6'-PeCB	27.71	2.54E+09	0.62 Y	0.93	0.95	2.6%
PCB-94 22'356'-PeCB	27.90	2.18E+09	0.63 Y	0.80	0.82	2.5%
PCB-95 22'35'6'-PeCB	28.28	2.36E+09	0.62 Y	0.87	0.89	2.4%
PCB-100/93 22'44'6/22'356'-PeCB	28.50	4.75E+09	0.62 Y	0.86	0.89	3.4%
PCB-102 22'456'-PeCB	28.61	2.73E+09	0.62 Y	0.97	1.02	5.8%
PCB-98 22'34'6'-PeCB	28.68	2.05E+09	0.64 Y	0.76	0.77	1.6%
PCB-88 22'346'-PeCB	28.98	2.08E+09	0.61 Y	0.80	0.78	-2.2%
PCB-91 22'34'6'-PeCB	29.04	2.73E+09	0.63 Y	0.94	1.03	8.9%
PCB-84 22'33'6'-PeCB	29.24	1.98E+09	0.62 Y	0.72	0.74	3.7%
PCB-89 22'346'-PeCB	29.65	2.09E+09	0.62 Y	0.76	0.79	3.0%
PCB-121 23'45'6'-PeCB	30.00	3.31E+09	0.62 Y	1.20	1.24	3.7%
PCB-92 22'355'-PeCB	30.32	2.25E+09	0.62 Y	0.82	0.84	2.9%
PCB-113/90/101 ...-PeCB	30.80	8.09E+09	0.62 Y	0.99	1.01	2.8%
PCB-83 22'33'5'-PeCB	31.24	1.82E+09	0.62 Y	0.71	0.69	-4.1%
PCB-99 22'44'5'-PeCB	31.34	2.67E+09	0.62 Y	0.92	1.00	8.8%
PCB-112 233'56'-PeCB	31.44	3.15E+09	0.63 Y	1.17	1.18	1.3%
PCB-108/119/86/97/125...-PeCB	31.79	1.55E+10	0.68 Y	0.98	0.97	-0.7%
PCB-117 234'56'-PeCB	32.33	3.32E+09	0.62 Y	1.14	1.25	9.6%
PCB-116/85 23456/22'344'-PeCB	32.42	5.04E+09	0.63 Y	0.94	0.95	0.6%
PCB-110 233'4'6'-PeCB	32.53	3.01E+09	0.62 Y	1.12	1.13	1.1%

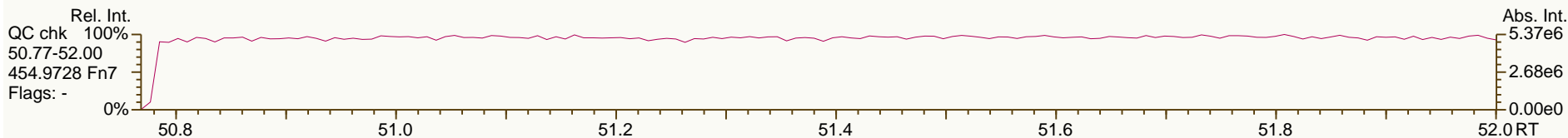
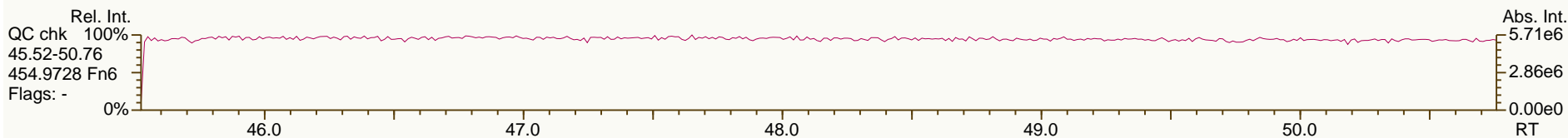
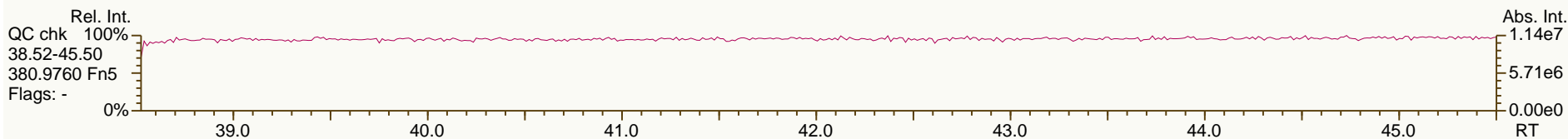
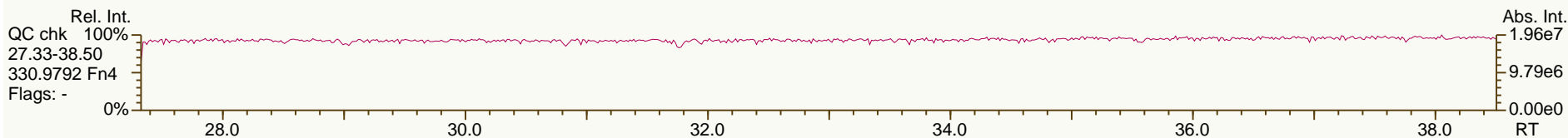
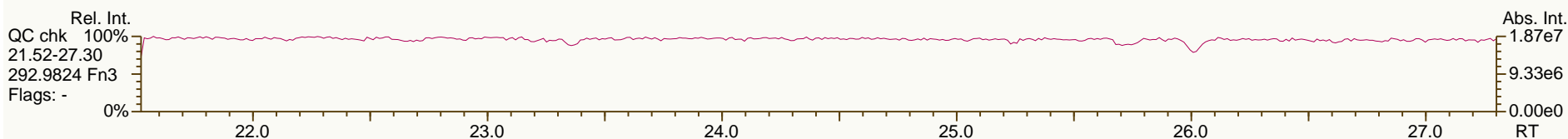
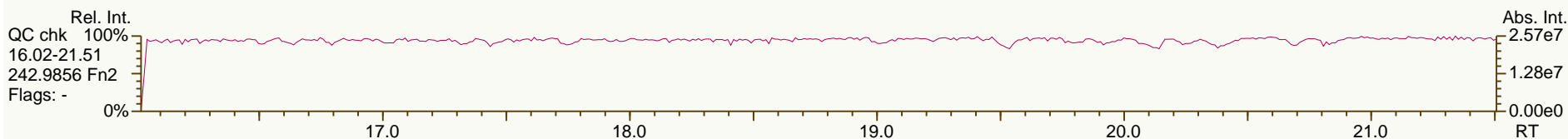
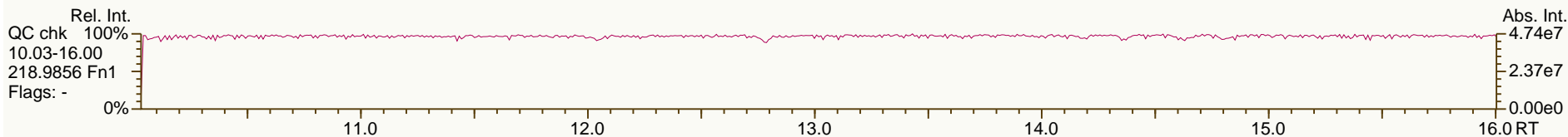
PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	32.62	3.31E+09	0.63 Y	1.16	1.24	7.2%	
PCB-82 22'33'4'-PeCB	32.81	1.94E+09	0.62 Y	0.70	0.73	4.5%	
PCB-111 233'55'-PeCB	33.13	3.35E+09	0.63 Y	1.22	1.26	3.1%	
PCB-120 23'455'-PeCB	33.53	3.41E+09	0.62 Y	1.21	1.28	5.7%	
PCB-107/124 ...-PeCB	34.50	6.21E+09	0.63 Y	1.10	1.17	6.2%	
PCB-109 233'46'-PeCB	34.71	3.61E+09	0.62 Y	1.25	1.36	8.2%	
PCB-106 233'45'-PeCB	34.93	3.03E+09	0.62 Y	1.11	1.14	3.1%	
PCB-122 233'4'5'-PeCB	35.39	2.83E+09	0.63 Y	0.99	1.06	6.1%	
PCB-127 33'455'-PeCB	37.34	3.14E+09	0.62 Y	1.10	1.19	8.8%	
PCB-155 22'44'66'-HxCB	30.66	2.91E+09	1.29 Y	1.26	1.29	2.3%	
PCB-152 22'3566'-HxCB	30.82	2.78E+09	1.26 Y	1.17	1.23	5.0%	
PCB-150 22'34'66'-HxCB	30.97	2.75E+09	1.26 Y	1.18	1.22	3.6%	
PCB-136 22'33'66'-HxCB	31.27	2.61E+09	1.27 Y	1.07	1.16	8.4%	
PCB-145 22'3466'-HxCB	31.54	2.61E+09	1.28 Y	1.11	1.16	3.7%	
PCB-148 22'34'56'-HxCB	32.82	2.03E+09	1.30 Y	1.18	1.25	5.4%	
PCB-151/135 ...-HxCB	33.34	3.85E+09	1.28 Y	1.14	1.18	3.6%	
PCB-154 22'44'56'-HxCB	33.55	2.26E+09	1.26 Y	1.34	1.38	3.2%	
PCB-144 22'345'6'-HxCB	33.81	1.97E+09	1.28 Y	1.18	1.20	1.8%	
PCB-147/149 ...-HxCB	34.12	4.02E+09	1.26 Y	1.18	1.23	4.9%	
PCB-134 22'33'56'-HxCB	34.29	1.54E+09	1.26 Y	0.92	0.94	2.0%	
PCB-143 22'3456'-HxCB	34.37	1.89E+09	1.28 Y	1.13	1.16	2.7%	
PCB-139/140 ...-HxCB	34.64	4.13E+09	1.28 Y	1.21	1.27	5.1%	
PCB-131 22'33'46'-HxCB	34.81	1.73E+09	1.28 Y	1.03	1.06	3.7%	
PCB-142 22'3456'-HxCB	34.96	1.72E+09	1.26 Y	0.99	1.06	6.7%	
PCB-132 22'33'46'-HxCB	35.19	1.74E+09	1.27 Y	1.03	1.06	3.2%	
PCB-133 22'33'55'-HxCB	35.60	1.91E+09	1.26 Y	1.13	1.17	3.7%	
PCB-165 233'55'6'-HxCB	35.94	2.36E+09	1.27 Y	1.41	1.44	2.5%	
PCB-146 22'34'55'-HxCB	36.15	2.06E+09	1.27 Y	1.20	1.26	5.0%	
PCB-161 233'45'6'-HxCB	36.27	2.61E+09	1.27 Y	1.52	1.60	5.3%	
PCB-153/168 ...-HxCB	36.70	4.99E+09	1.28 Y	1.46	1.53	5.0%	
PCB-141 22'3455'-HxCB	36.85	1.83E+09	1.27 Y	1.09	1.12	2.9%	
PCB-130 22'33'45'-HxCB	37.19	1.63E+09	1.26 Y	0.97	1.00	3.0%	
PCB-137 22'344'5'-HxCB	37.39	2.02E+09	1.27 Y	1.16	1.24	6.3%	
PCB-164 233'4'5'6'-HxCB	37.47	2.53E+09	1.29 Y	1.50	1.55	3.5%	
PCB-163/138/129 ...-HxCB	37.77	6.19E+09	1.26 Y	1.19	1.27	6.4%	
PCB-160 233'456'-HxCB	37.90	2.49E+09	1.29 Y	1.52	1.52	0.6%	
PCB-158 233'44'6'-HxCB	38.09	2.80E+09	1.28 Y	1.66	1.72	3.4%	
PCB-128/166 ...-HxCB	38.82	4.79E+09	1.22 Y	0.90	0.98	8.8%	
PCB-159 233'455'-HxCB	39.64	2.87E+09	1.23 Y	1.11	1.17	5.3%	
PCB-162 233'4'55'-HxCB	39.88	2.82E+09	1.22 Y	1.07	1.15	7.5%	
PCB-188 22'34'566'-HpCB	35.55	1.80E+09	1.08 Y	1.27	1.31	3.0%	
PCB-179 22'33'566'-HpCB	35.83	1.59E+09	1.11 Y	1.16	1.15	-0.7%	
PCB-184 22'344'66'-HpCB	36.30	1.62E+09	1.09 Y	1.13	1.17	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 3-Jan-2014 16:56			
Lab ID:	CS5_131220_PCB_XA	ICAL: 131220 QC MM7					
Acquired:	20-DEC-2013 20:49						
Datafile:	131220X08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	36.59	1.74E+09	1.08 Y	1.23	1.26	2.3%	
PCB-186 22'34566'-HpCB	36.99	1.57E+09	1.09 Y	1.13	1.14	1.1%	
PCB-178 22'33'55'6'-HpCB	38.12	1.21E+09	1.09 Y	0.84	0.88	4.2%	
PCB-175 22'33'45'6'-HpCB	38.67	1.91E+09	1.06 Y	1.07	1.15	7.1%	
PCB-187 22'34'55'6'-HpCB	38.90	2.01E+09	1.06 Y	1.14	1.21	6.2%	
PCB-182 22'344'56'-HpCB	39.08	2.05E+09	1.06 Y	1.18	1.23	4.6%	
PCB-183 22'344'5'6'-HpCB	39.42	2.03E+09	1.05 Y	1.20	1.22	1.1%	
PCB-185 22'3455'6'-HpCB	39.51	2.01E+09	1.06 Y	1.06	1.21	13.9%	
PCB-174 22'33'456'-HpCB	39.62	1.71E+09	1.06 Y	0.99	1.03	4.0%	
PCB-177 22'33'45'6'-HpCB	39.99	1.65E+09	1.06 Y	0.95	0.99	4.3%	
PCB-181 22'344'56'-HpCB	40.34	1.95E+09	1.06 Y	1.09	1.17	7.5%	
PCB-171/173 ...-HpCB	40.53	3.42E+09	1.06 Y	0.95	1.03	8.3%	
PCB-172 22'33'455'-HpCB	41.88	1.73E+09	1.06 Y	0.99	1.04	5.0%	
PCB-192 233'455'6'-HpCB	42.13	2.27E+09	1.06 Y	1.29	1.36	5.9%	
PCB-180/193 ...-HpCB	42.40	4.38E+09	1.06 Y	1.26	1.31	4.3%	
PCB-191 233'44'5'6'-HpCB	42.73	2.40E+09	1.06 Y	1.40	1.44	3.3%	
PCB-170 22'33'44'5'-HpCB	43.51	1.66E+09	1.05 Y	1.14	1.24	9.0%	
PCB-190 233'44'56'-HpCB	43.96	2.44E+09	1.05 Y	1.66	1.82	9.7%	
PCB-202 22'33'55'66'-OcCB	40.10	1.58E+09	0.92 Y	1.05	1.10	4.7%	
PCB-201 22'33'45'66'-OcCB	40.89	1.78E+09	0.92 Y	1.22	1.24	1.8%	
PCB-204 22'344'566'-OcCB	41.47	1.66E+09	0.92 Y	1.12	1.16	3.8%	
PCB-197 22'33'44'66'-OcCB	41.66	1.80E+09	0.92 Y	1.19	1.26	5.5%	
PCB-200 22'33'4566'-OcCB	41.75	1.68E+09	0.92 Y	1.11	1.17	6.1%	
PCB-198/199 ...-OcCB	44.07	2.46E+09	0.91 Y	0.81	0.86	5.9%	
PCB-196 22'33'44'56'-OcCB	44.65	1.24E+09	0.91 Y	0.83	0.87	3.9%	
PCB-203 22'344'55'6'-OcCB	44.82	1.30E+09	0.92 Y	0.87	0.91	4.0%	
PCB-195 22'33'44'56'-OcCB	45.95	1.40E+09	0.92 Y	0.77	0.82	6.5%	
PCB-194 22'33'44'55'-OcCB	47.89	1.50E+09	0.93 Y	0.84	0.88	4.1%	
PCB-205 233'44'55'6'-OcCB	48.29	1.93E+09	0.93 Y	1.06	1.13	6.3%	
PCB-208 22'33'455'66'-NoCB	45.74	1.95E+09	0.79 Y	1.12	1.19	6.1%	
PCB-207 22'33'44'566'-NoCB	46.53	2.03E+09	0.79 Y	1.19	1.24	4.2%	
PCB-206 22'33'44'55'6'-NoCB	49.77	1.32E+09	0.78 Y	1.11	1.18	5.5%	

SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
User: LKB Datafile: 131220X08





SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

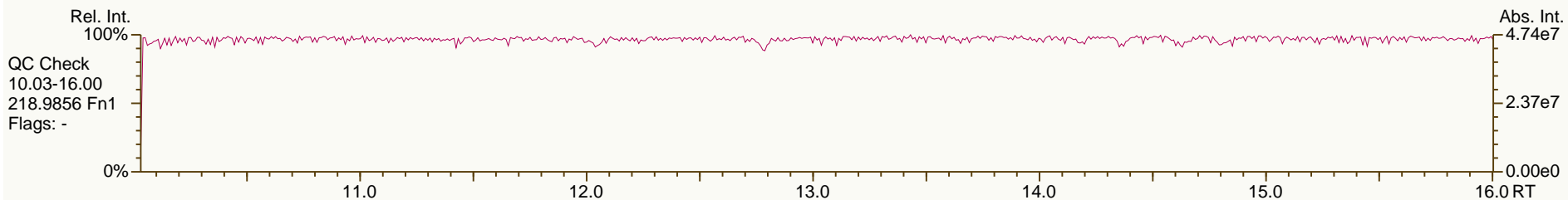
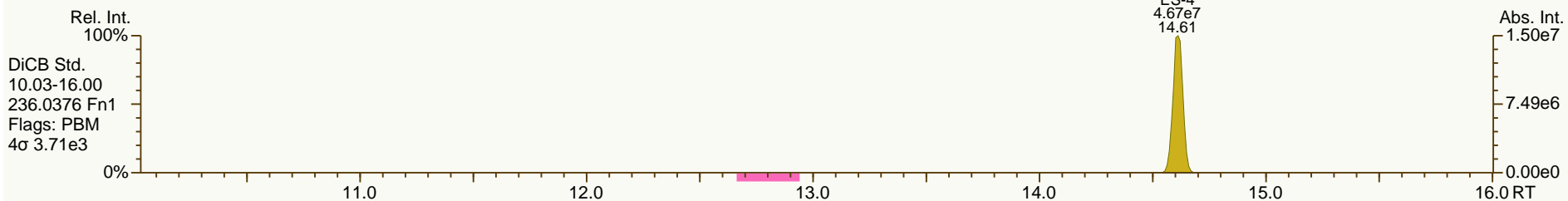
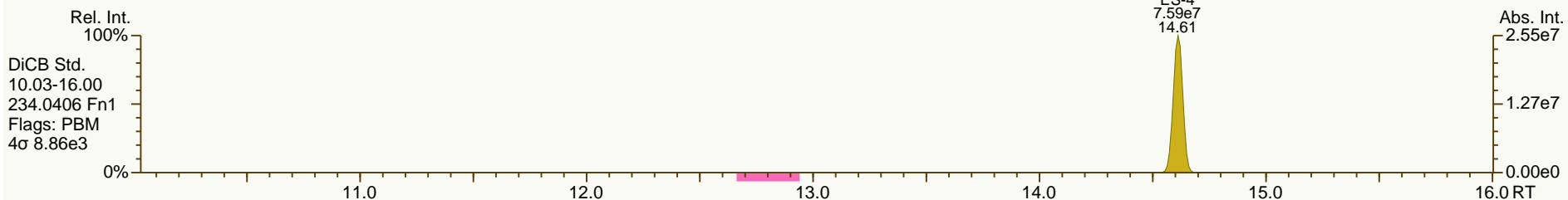
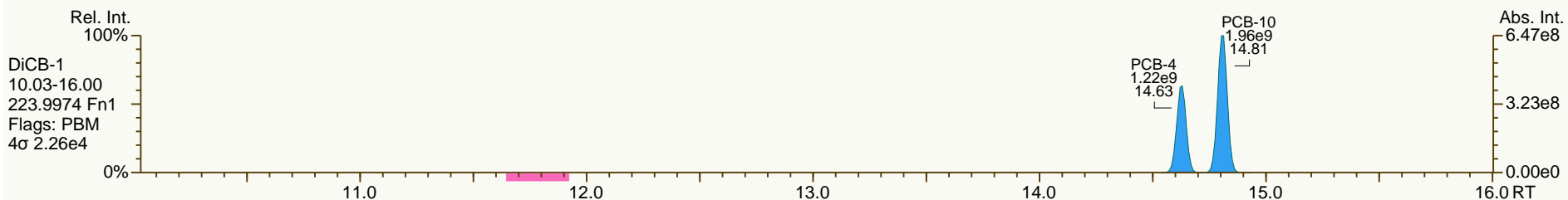
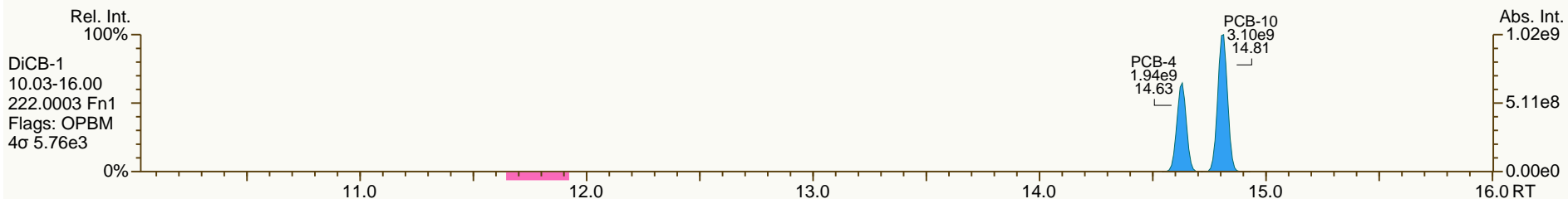
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

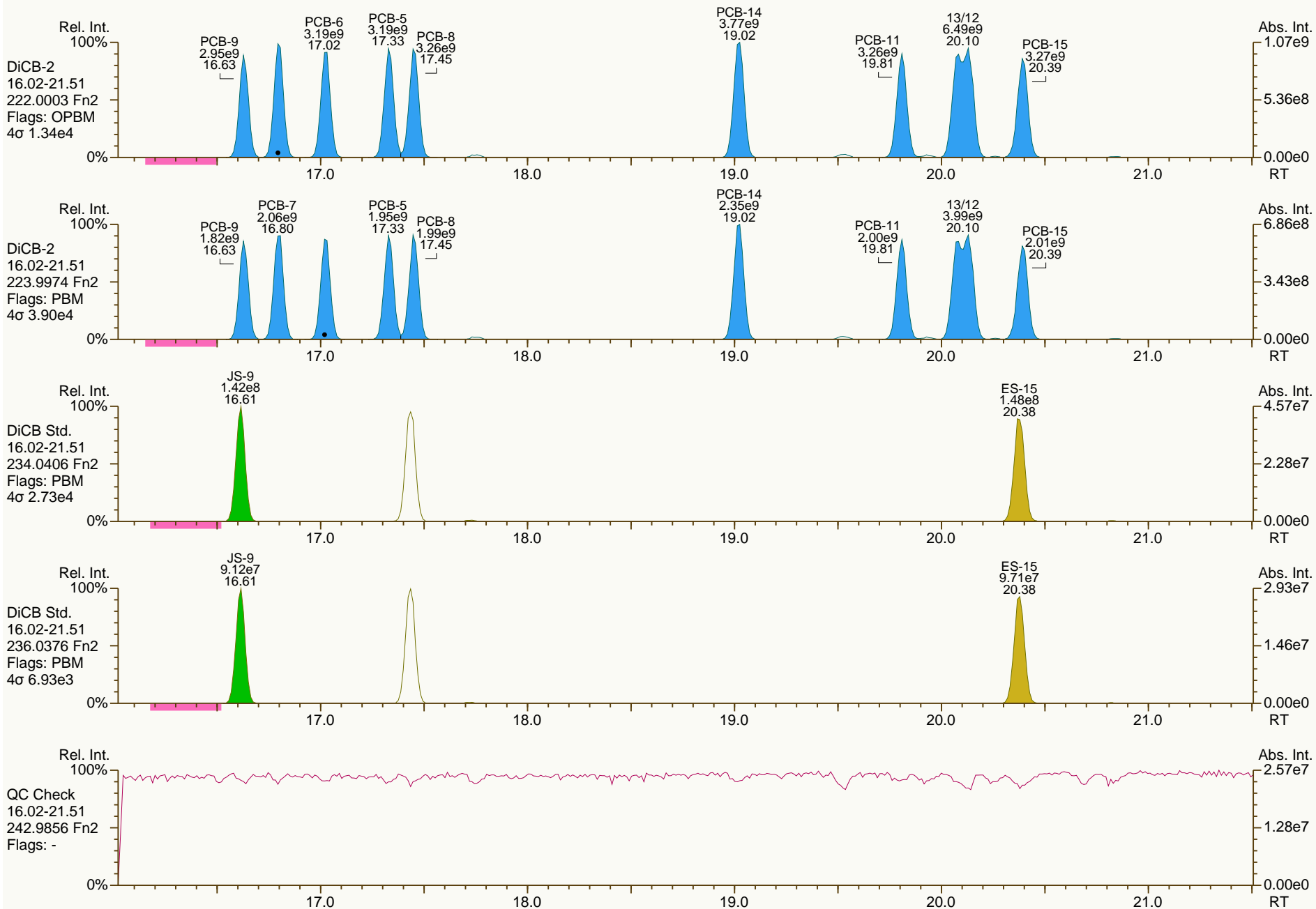
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

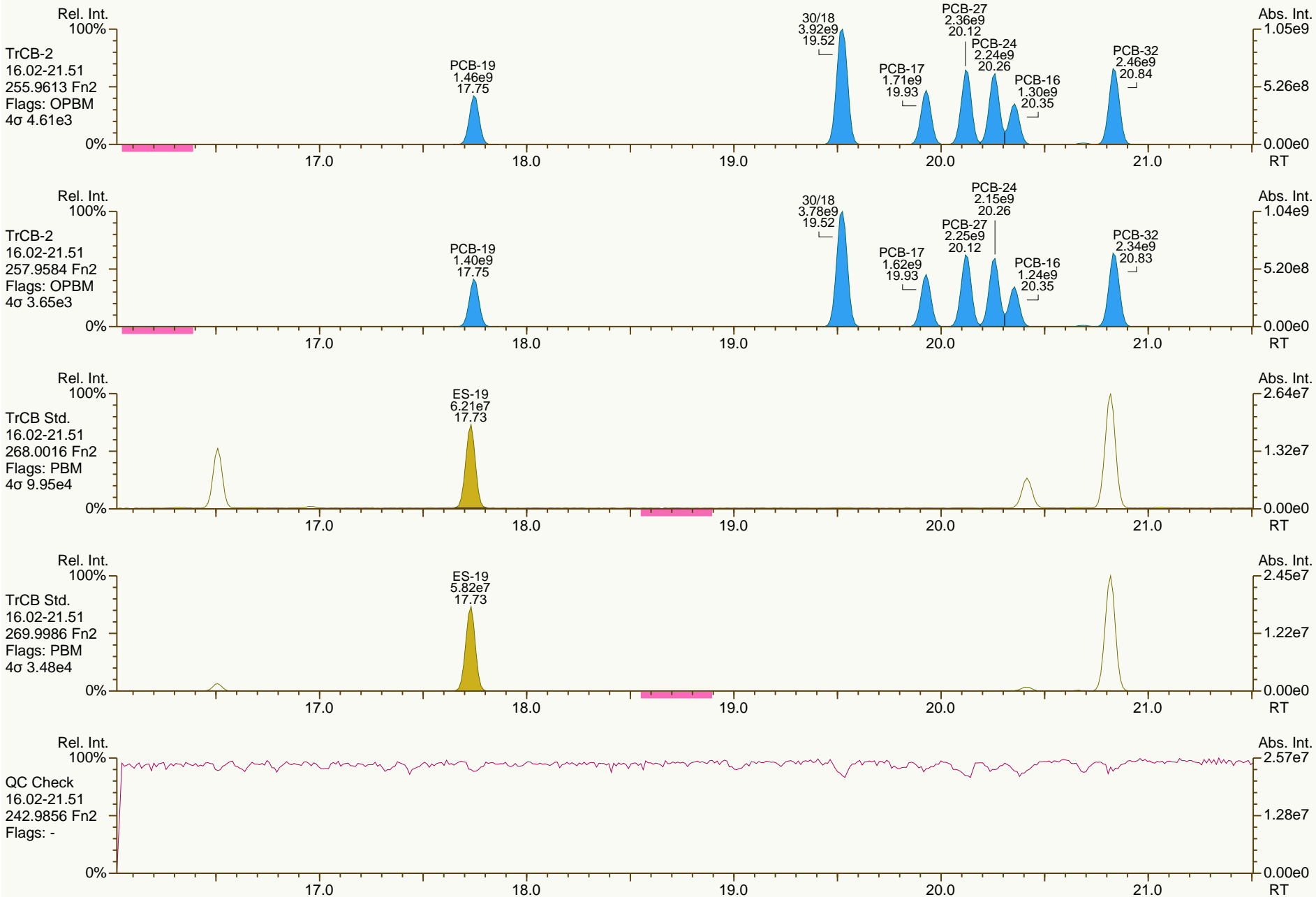
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

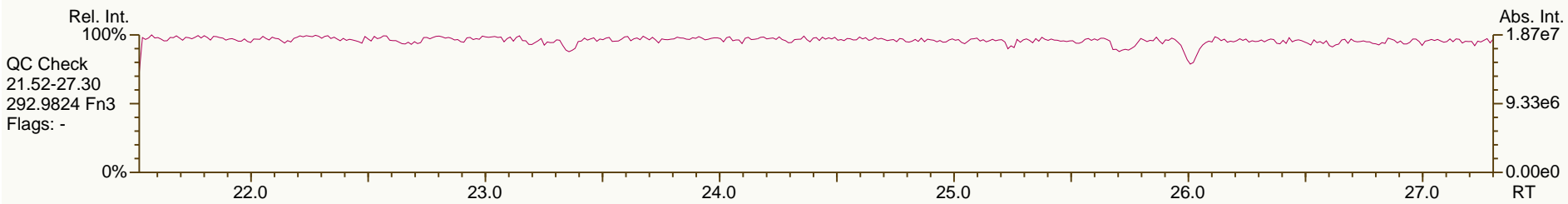
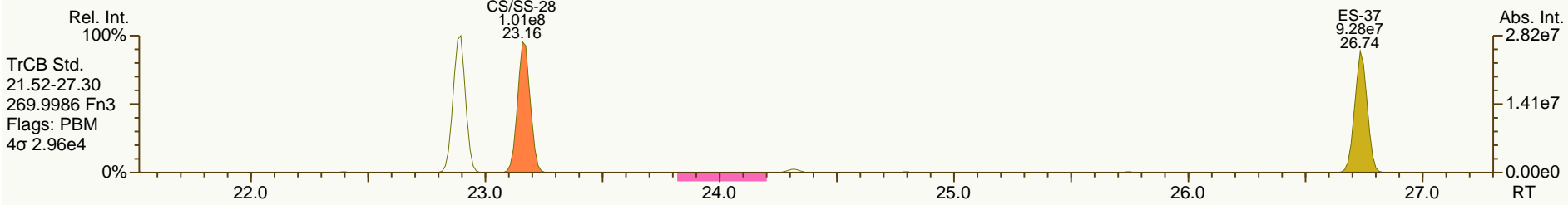
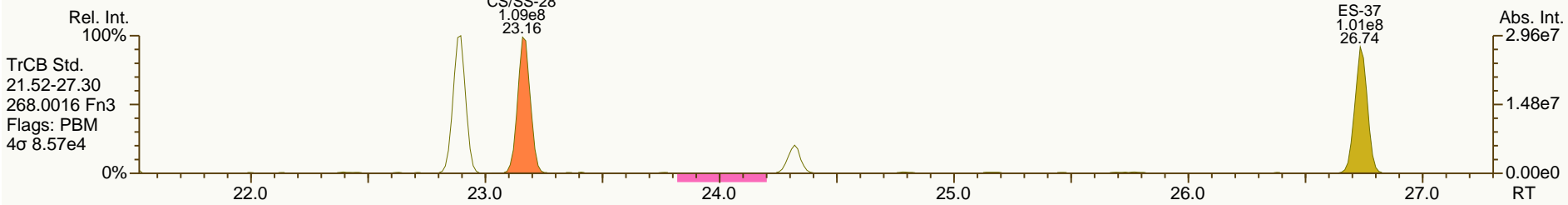
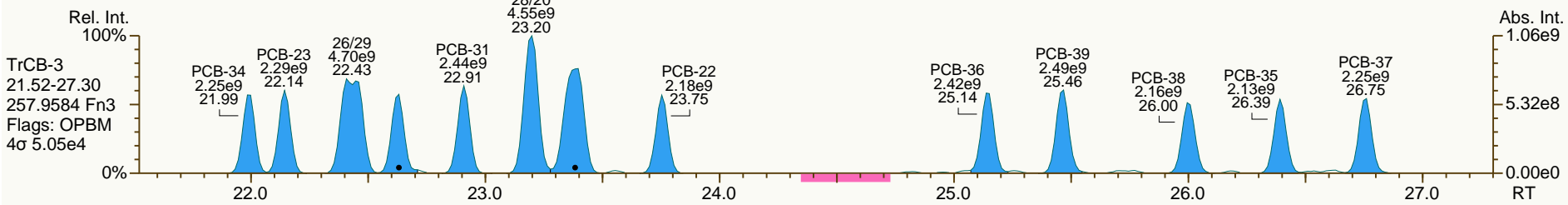
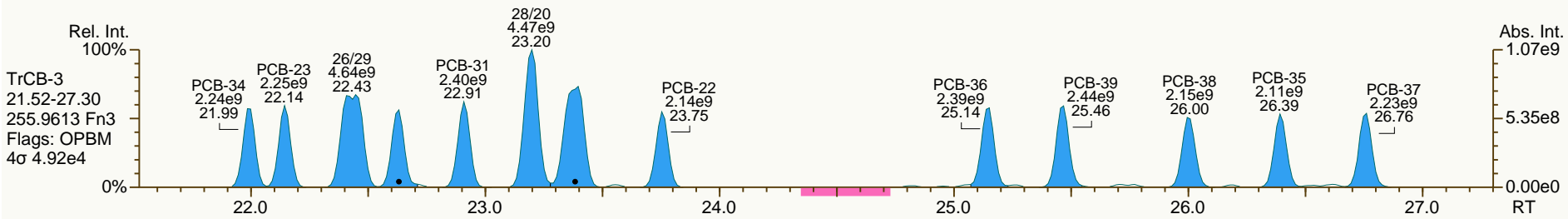
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
User: LKB Datafile: 131220X08



SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

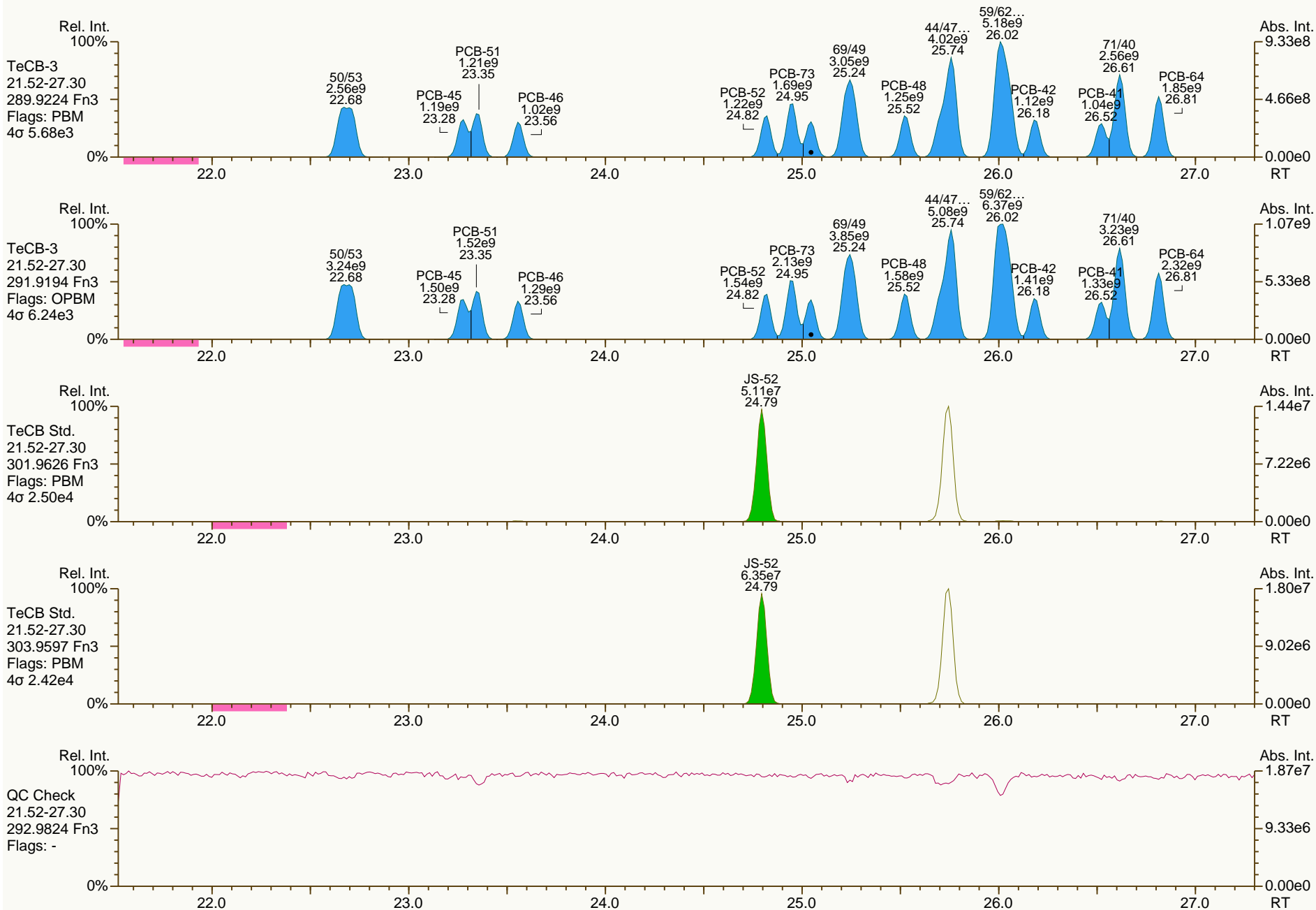
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

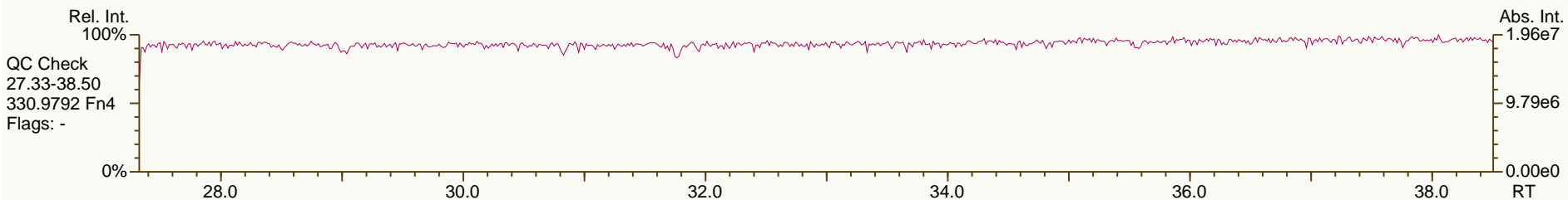
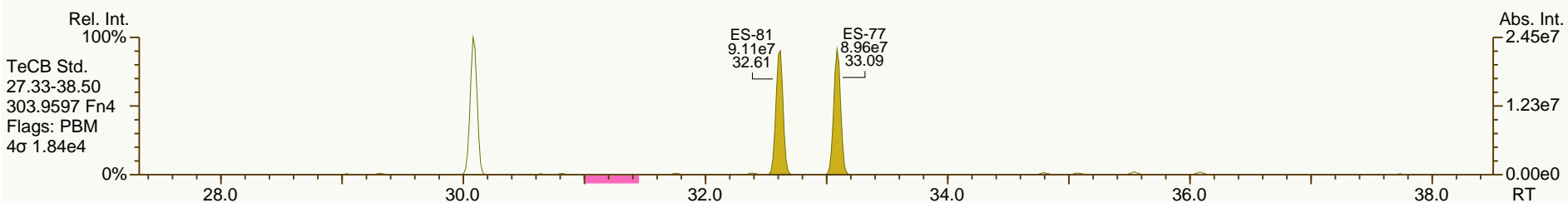
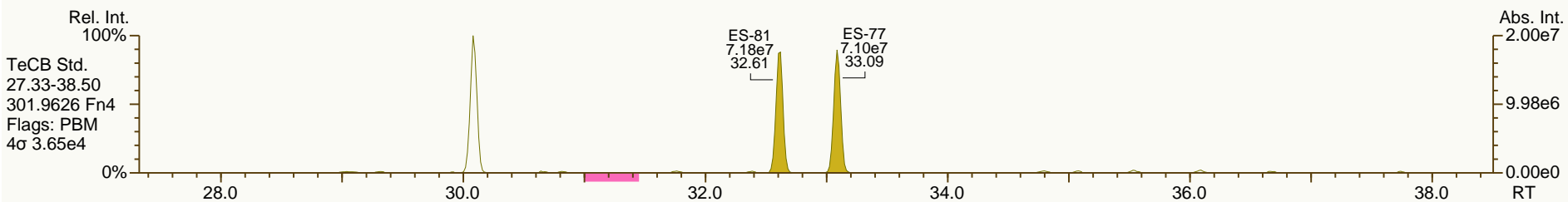
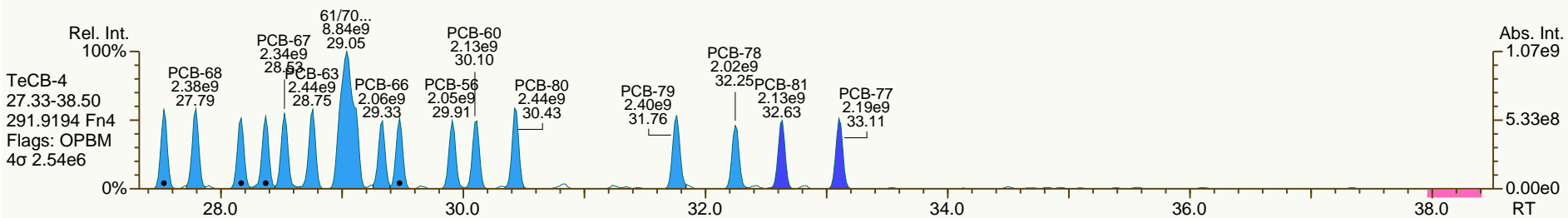
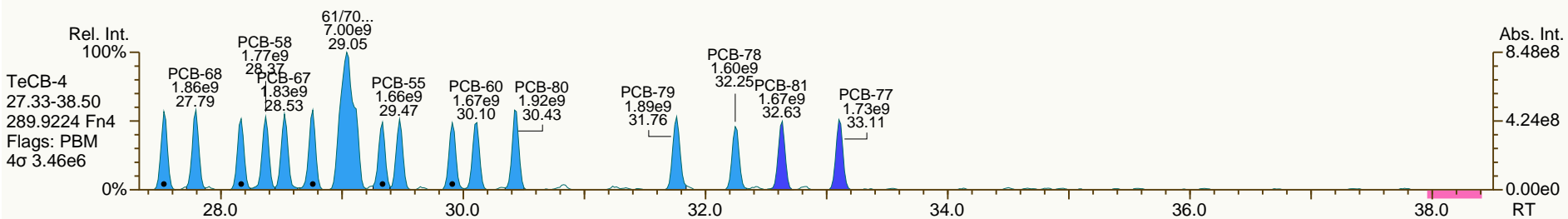
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SGS-AP ID: CS5\_131220\_PCB\_XA  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

Acq: 20-Dec-2013 20:49:35  
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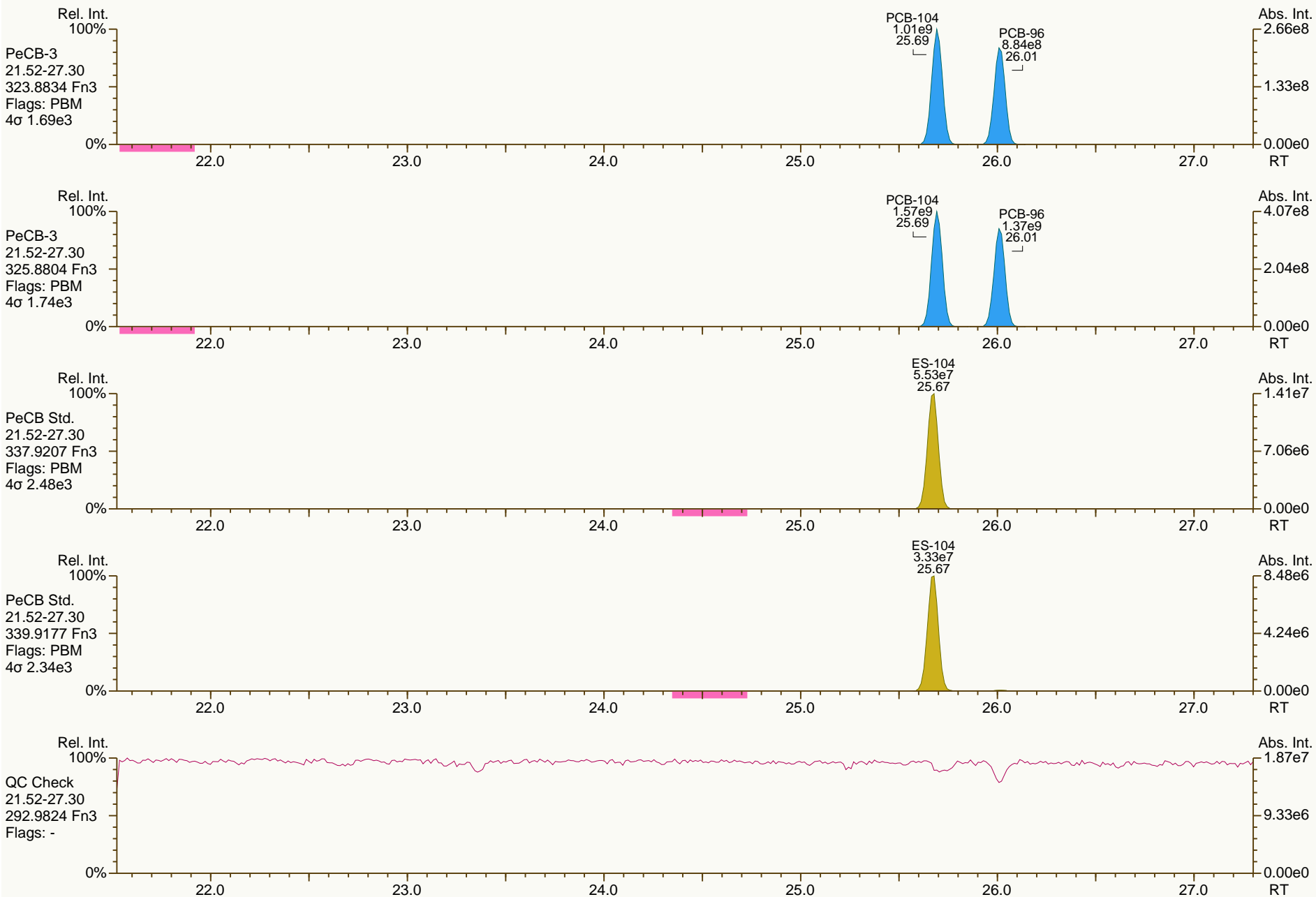




SGS-AP ID: CS5\_131220\_PCB\_XA  
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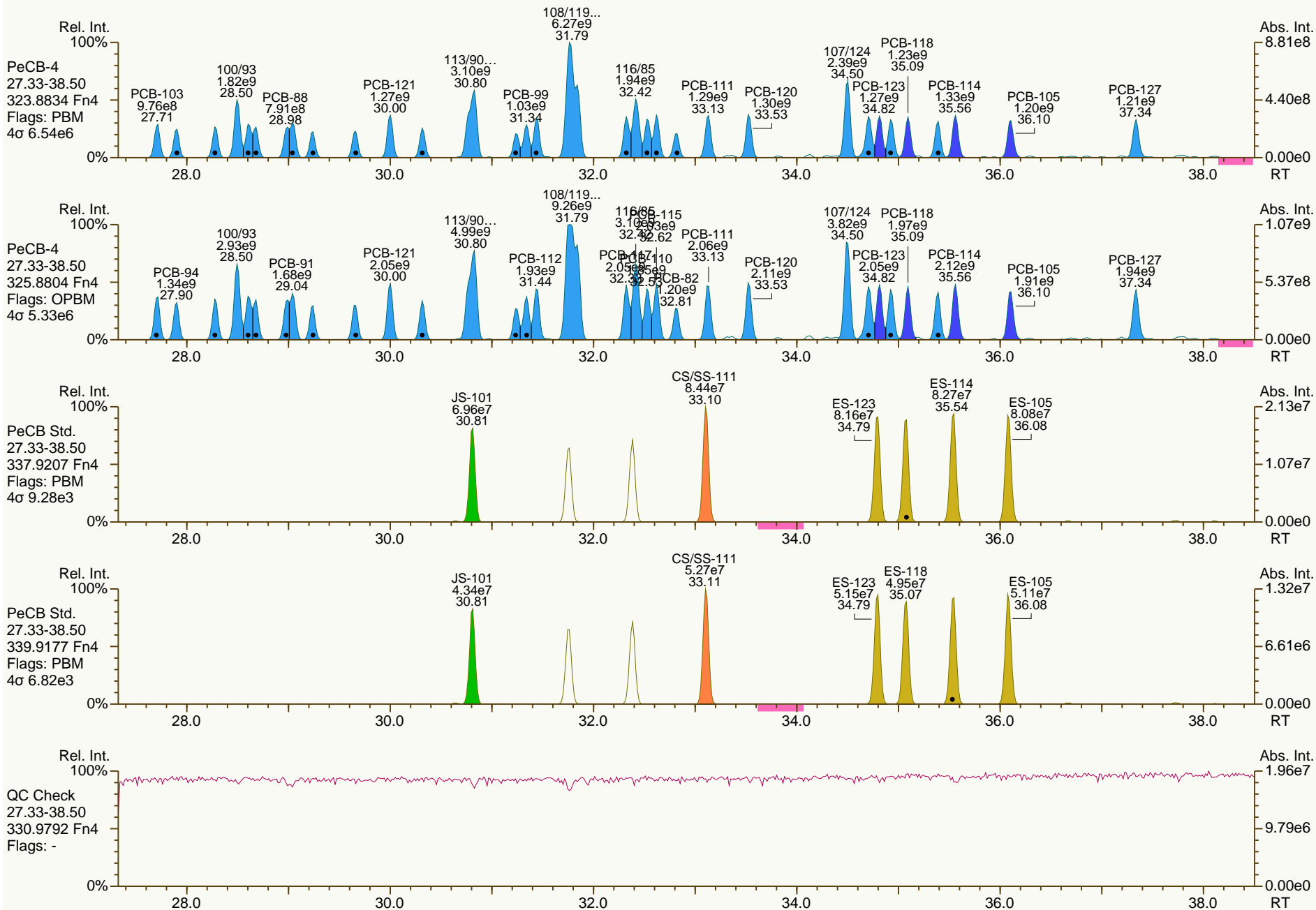
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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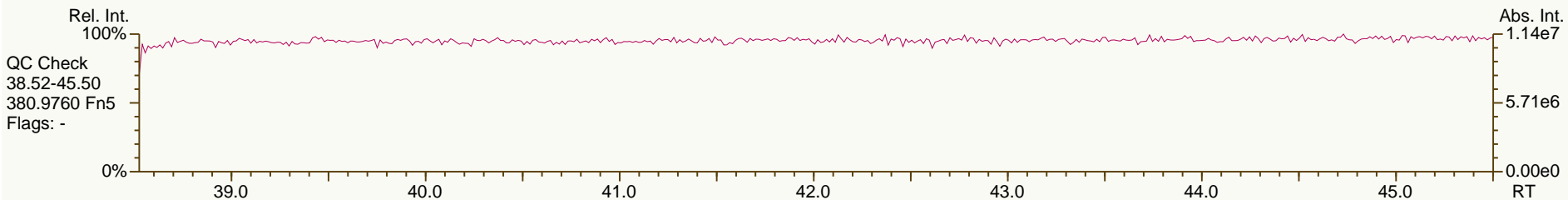
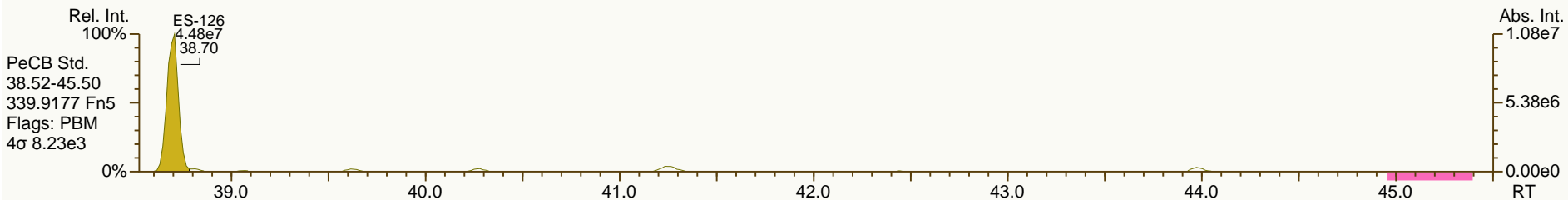
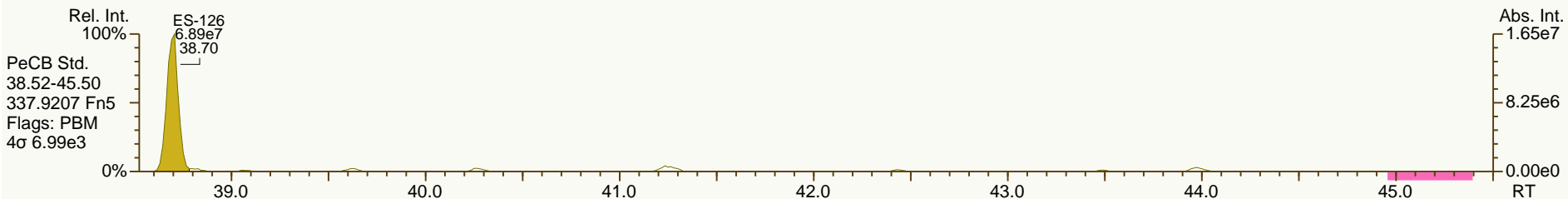
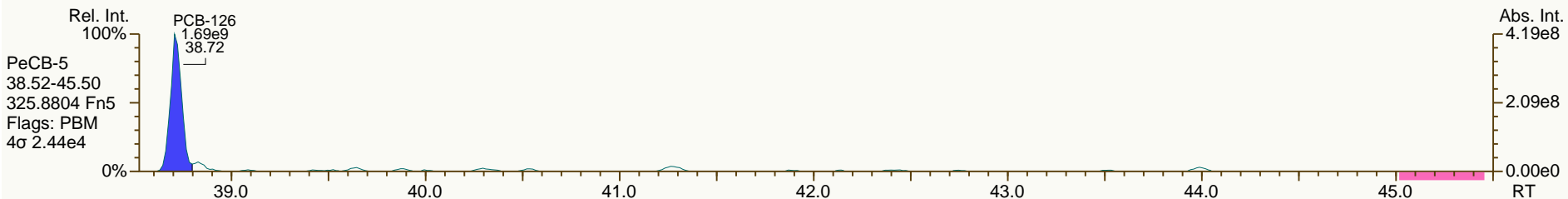
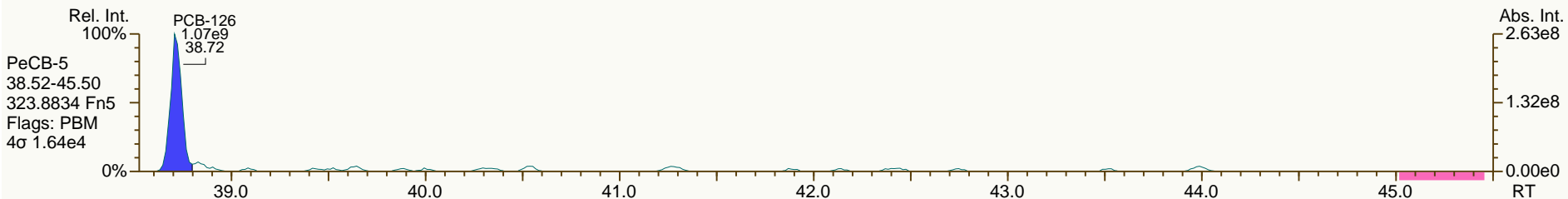
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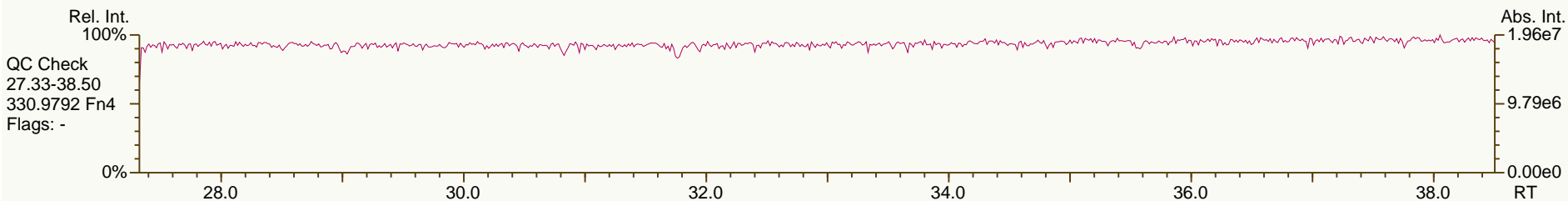
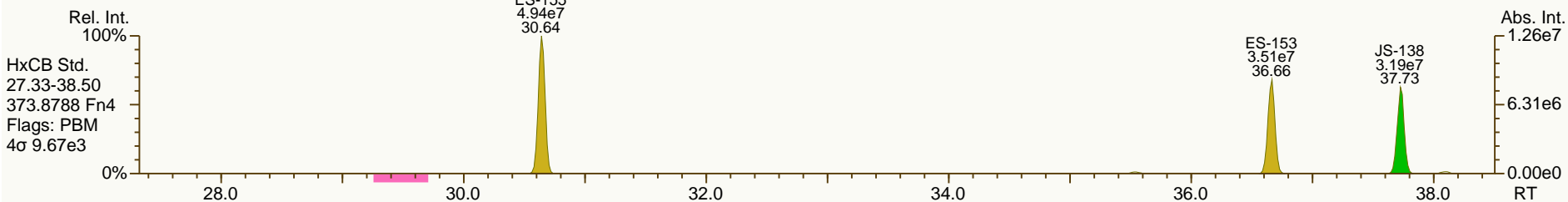
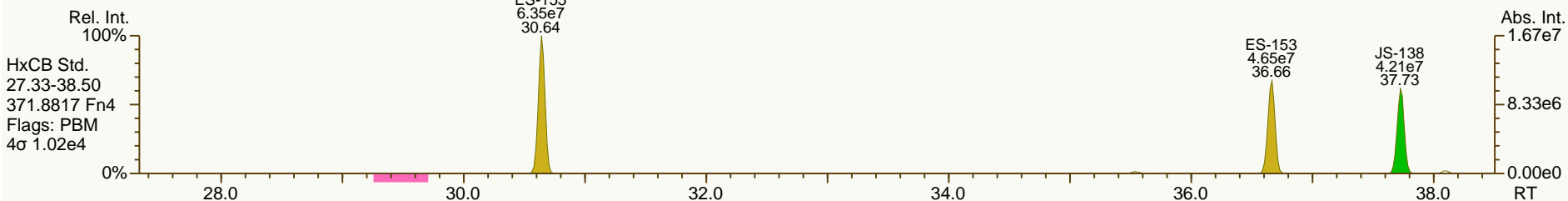
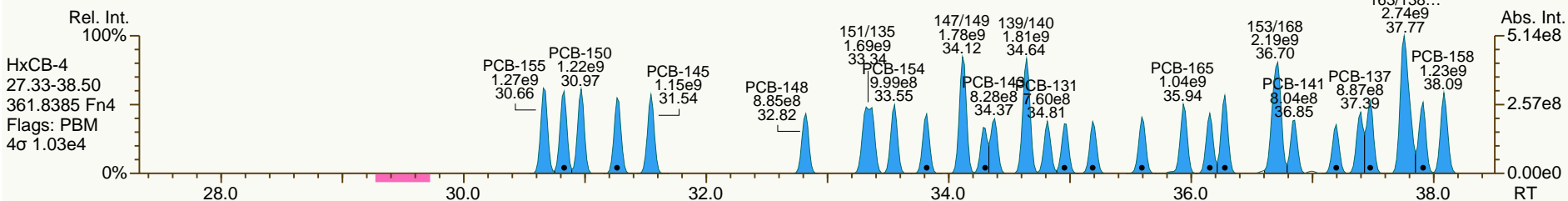
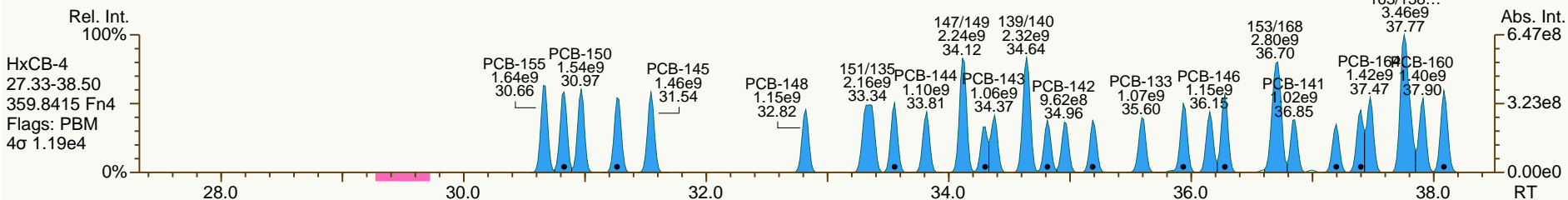
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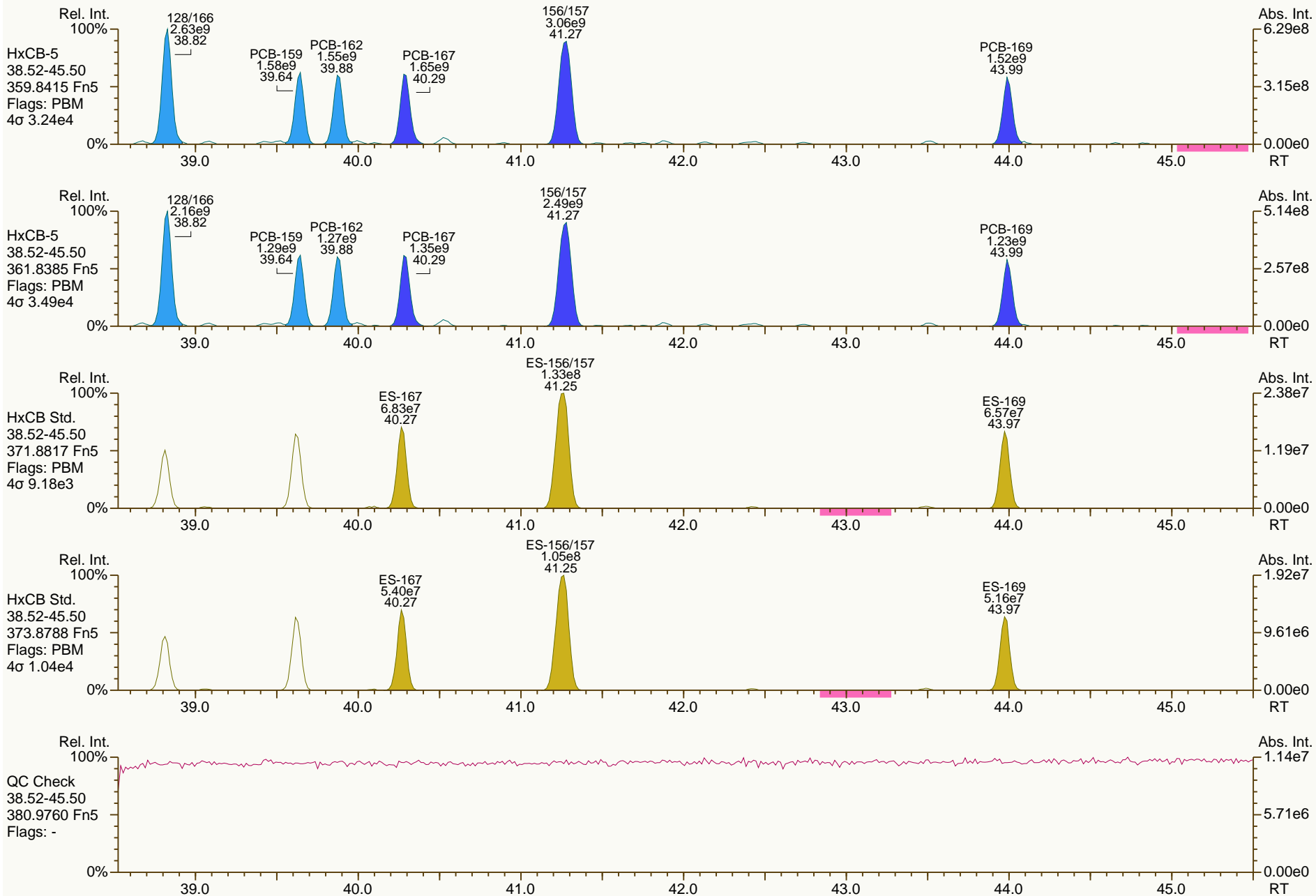
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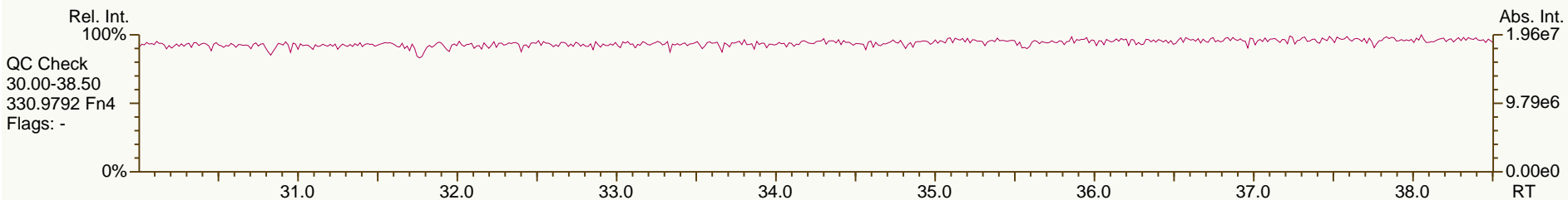
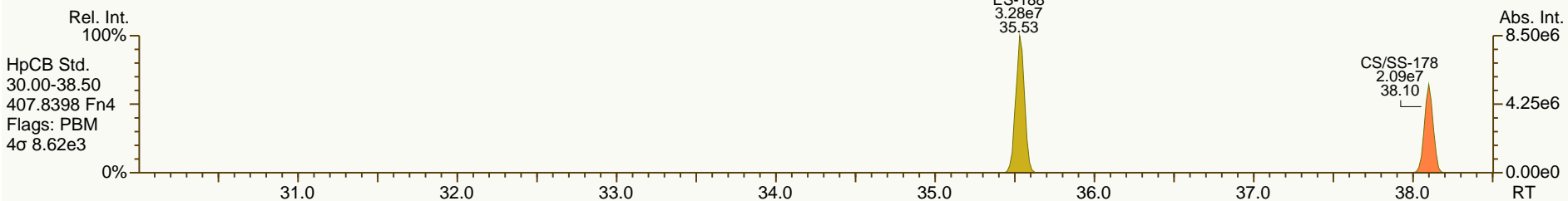
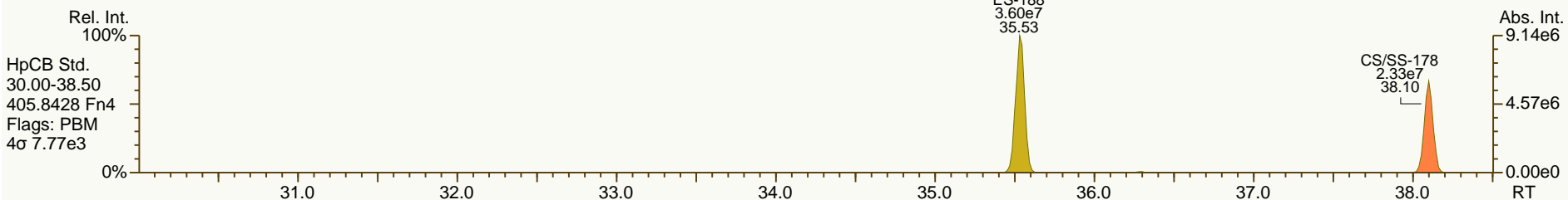
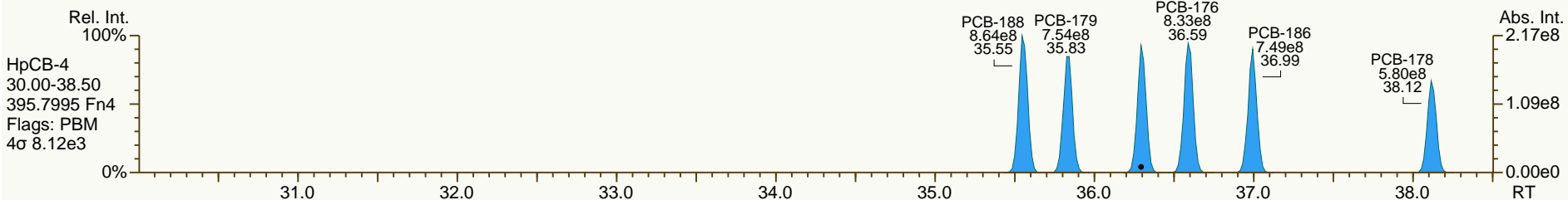
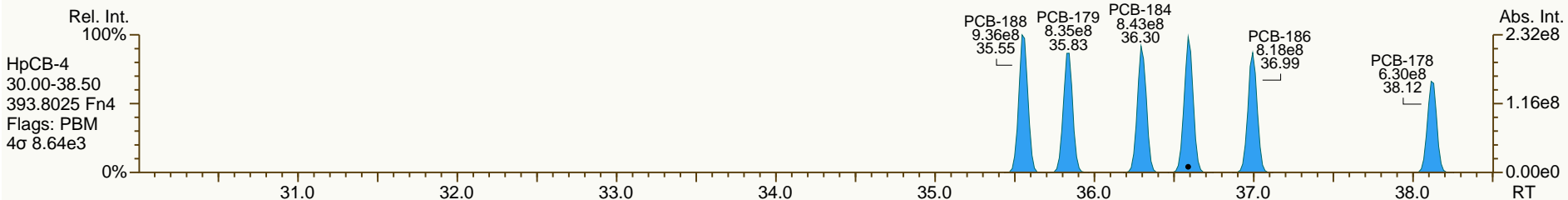
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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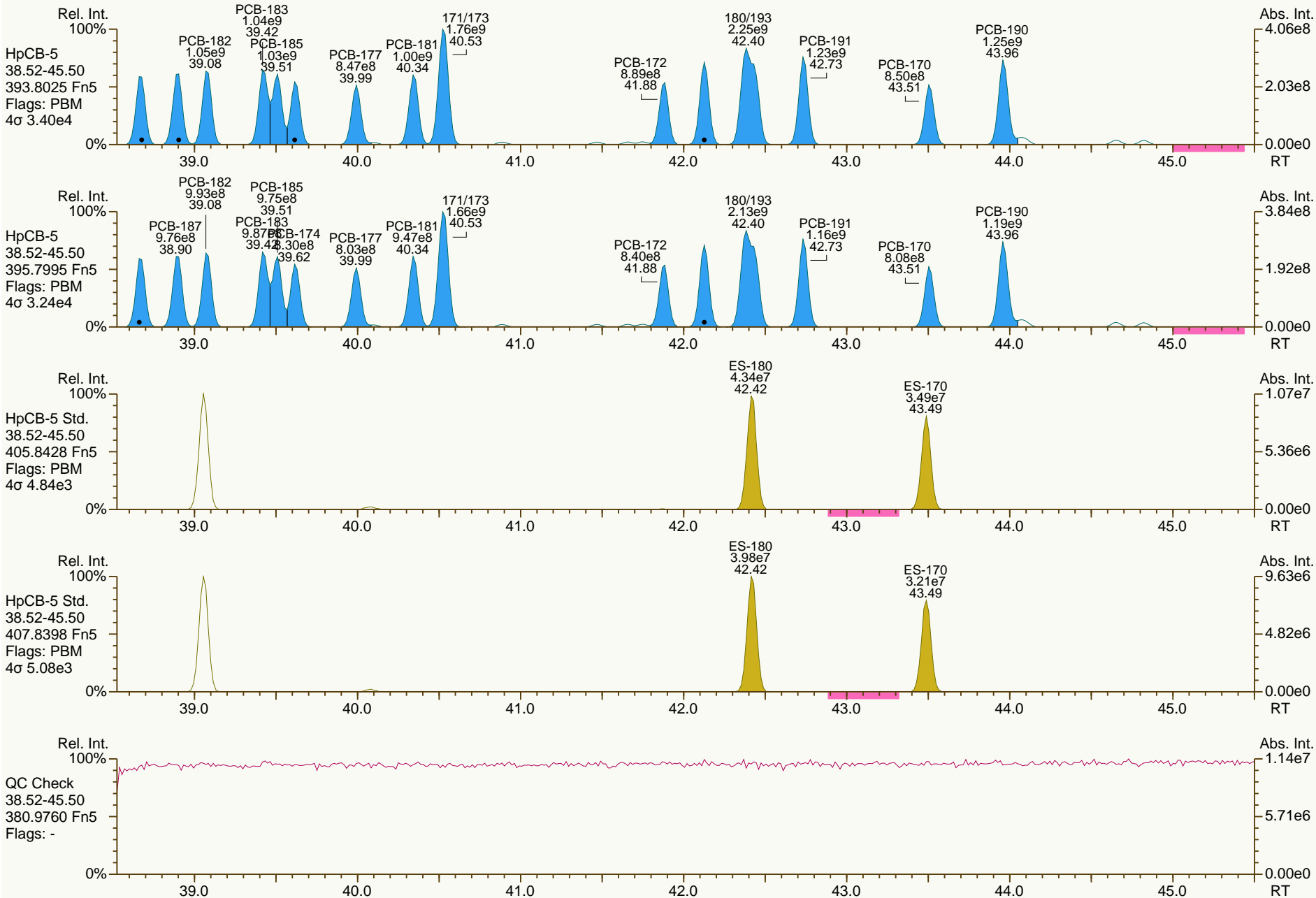
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SGS-AP ID: CS5\_131220\_PCB\_XA  
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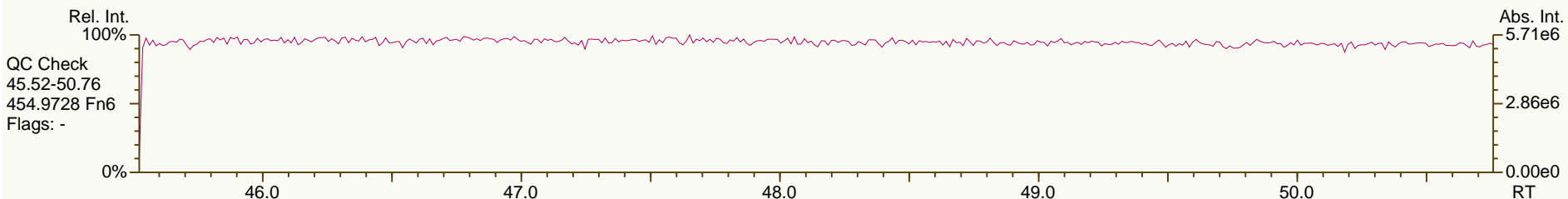
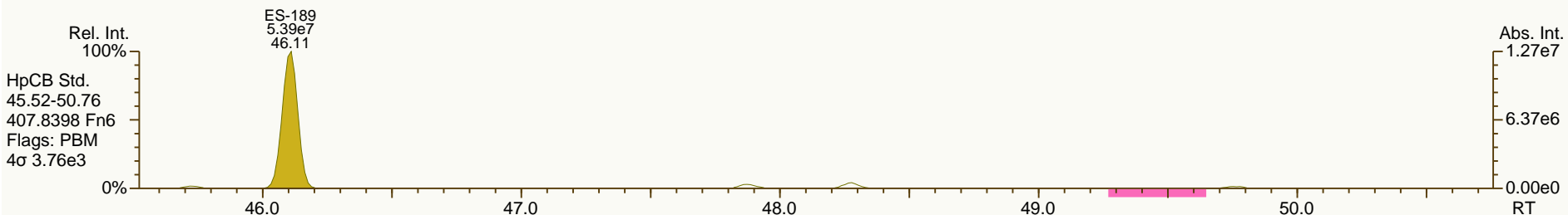
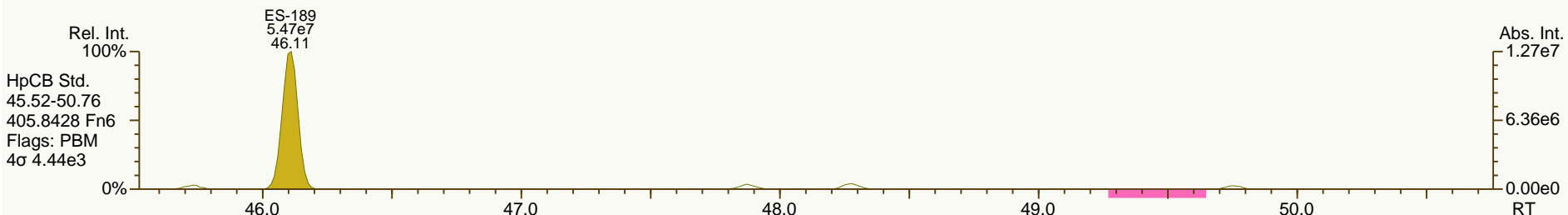
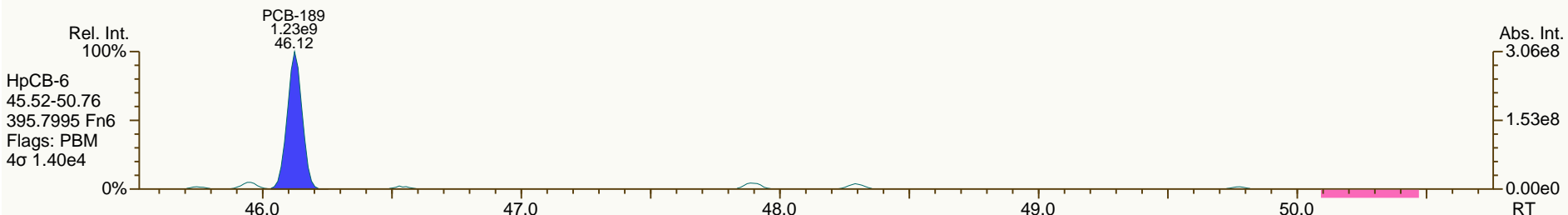
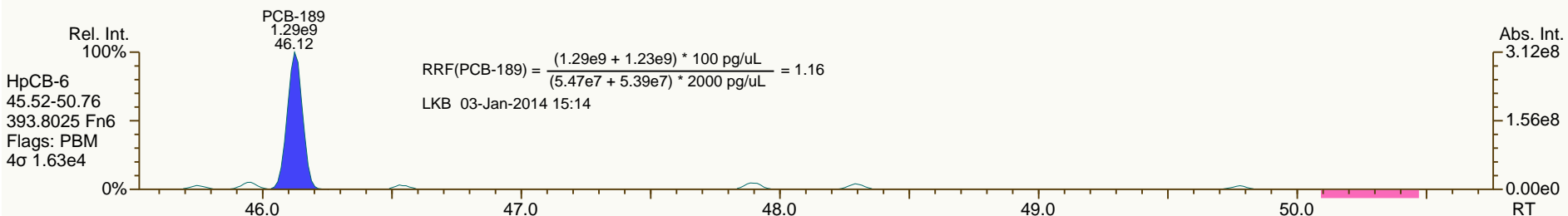
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SGS-AP ID: CS5\_131220\_PCB\_XA  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 13-84-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 42

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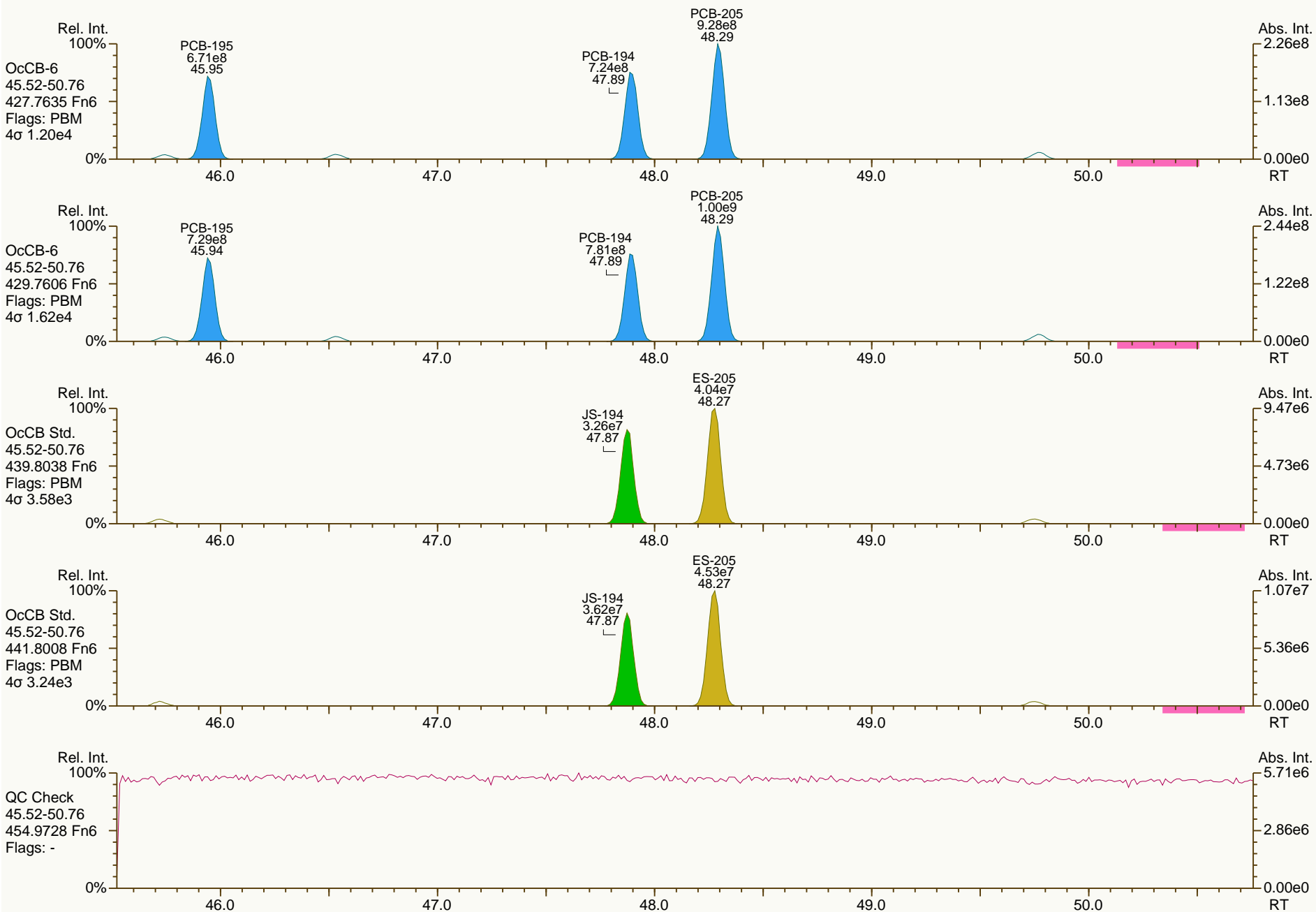
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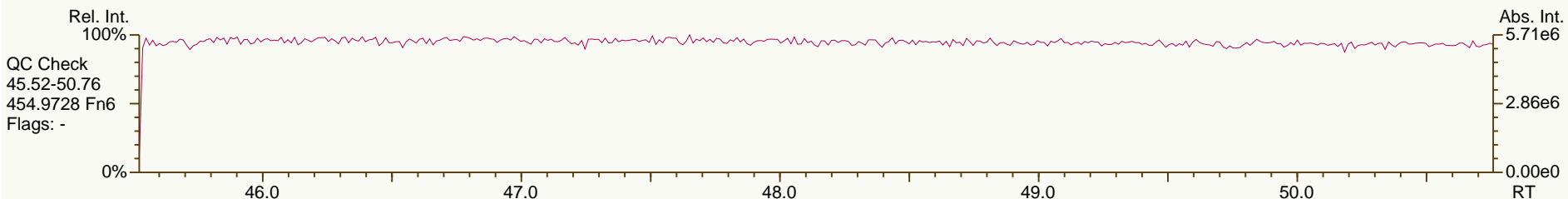
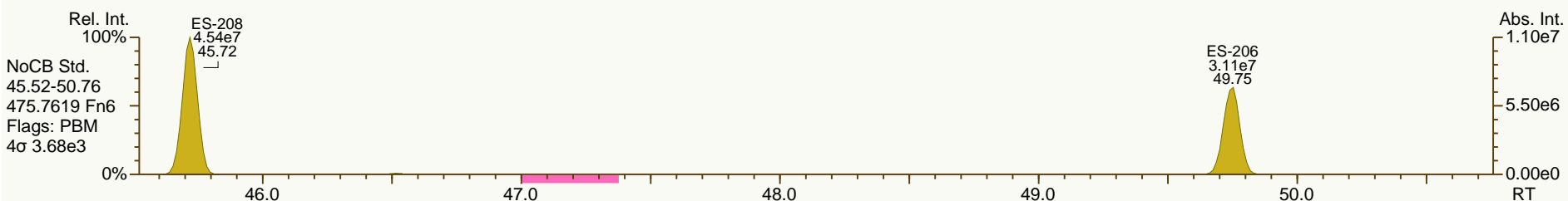
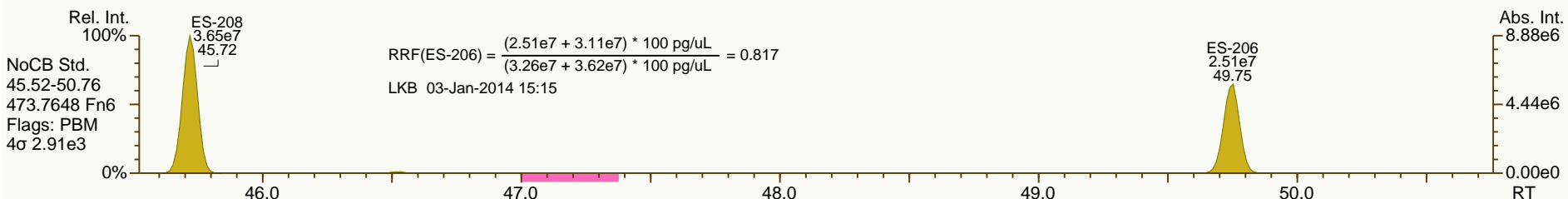
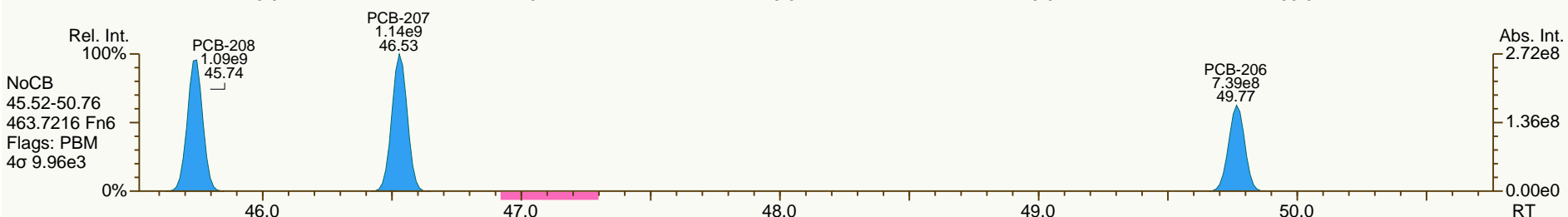
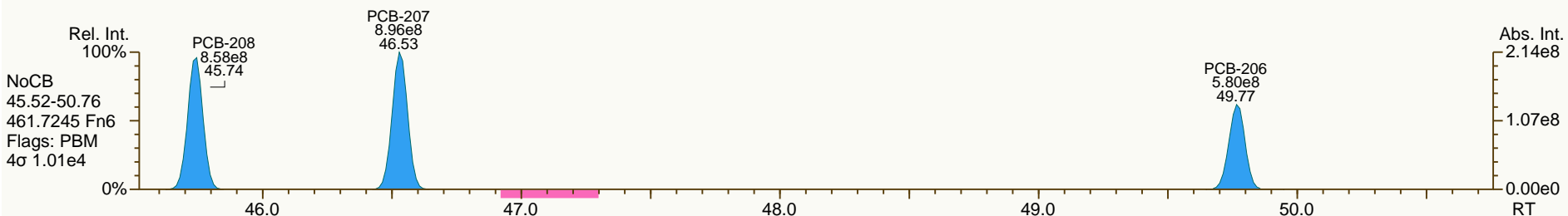
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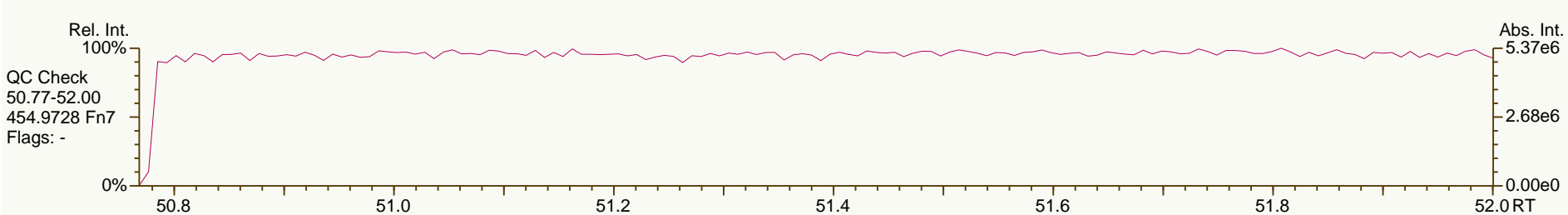
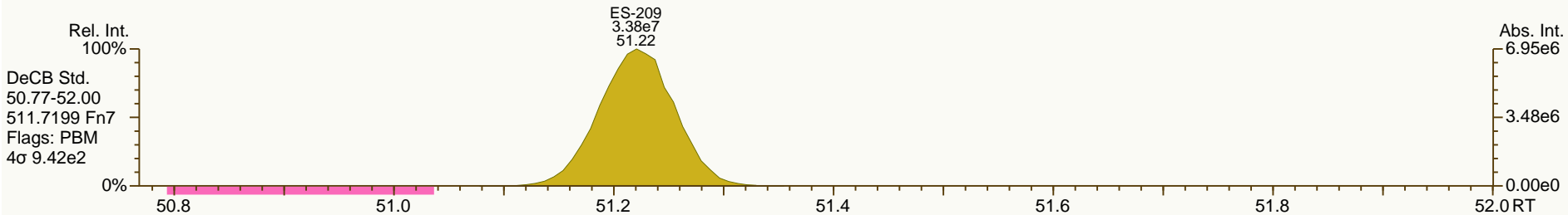
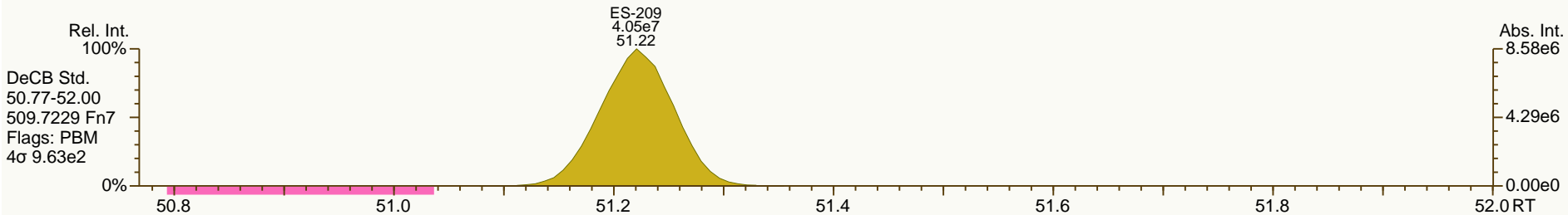
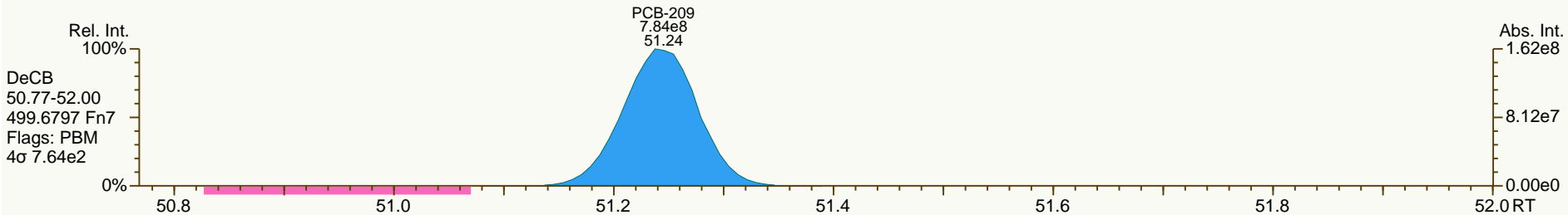
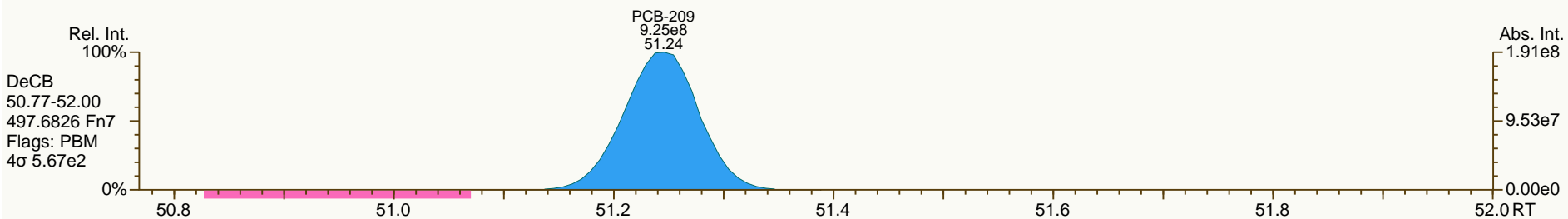
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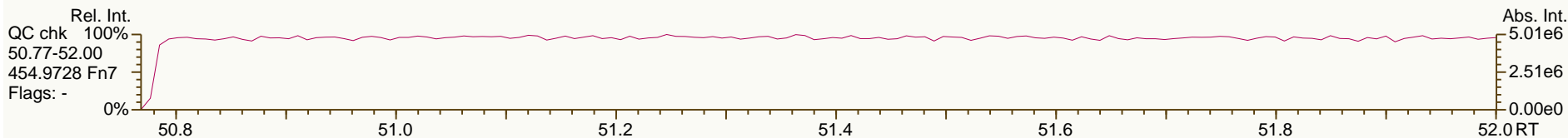
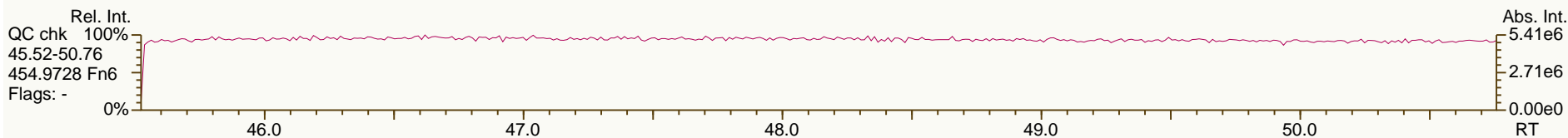
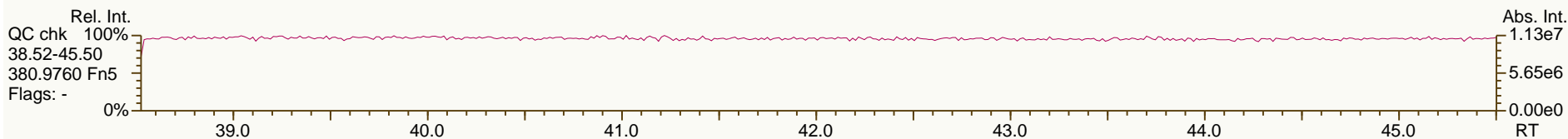
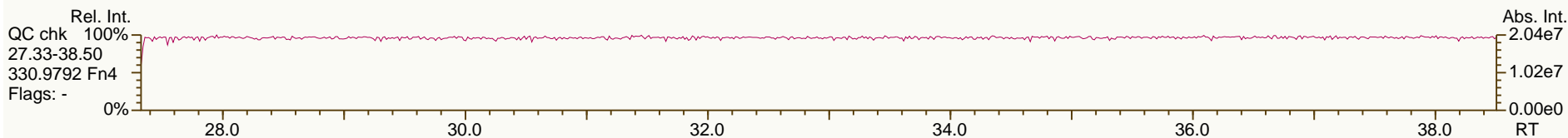
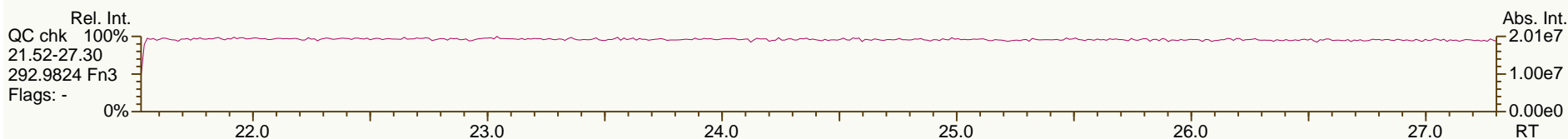
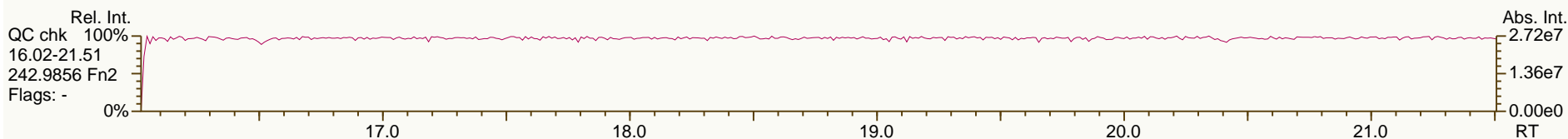
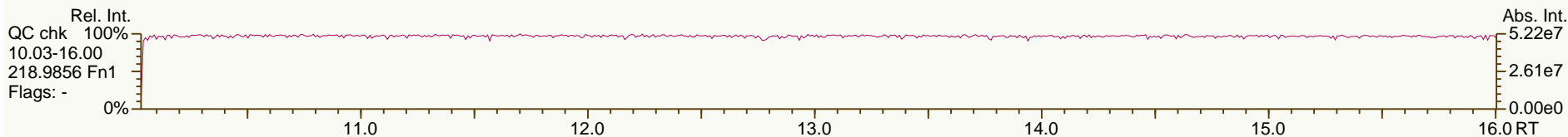
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
User: LKB Datafile: 131220X07



SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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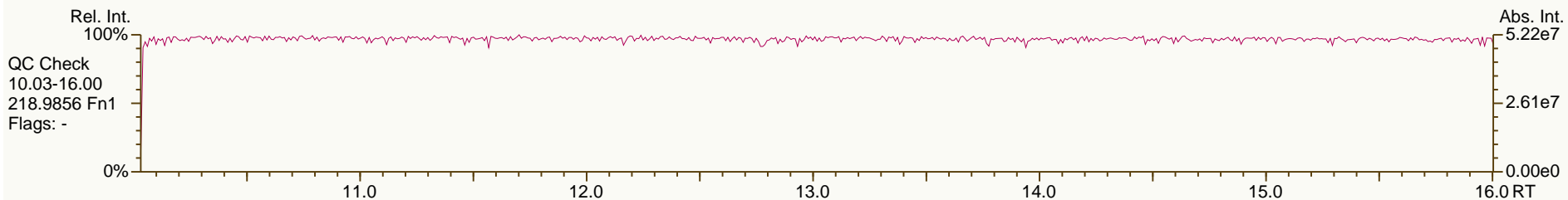
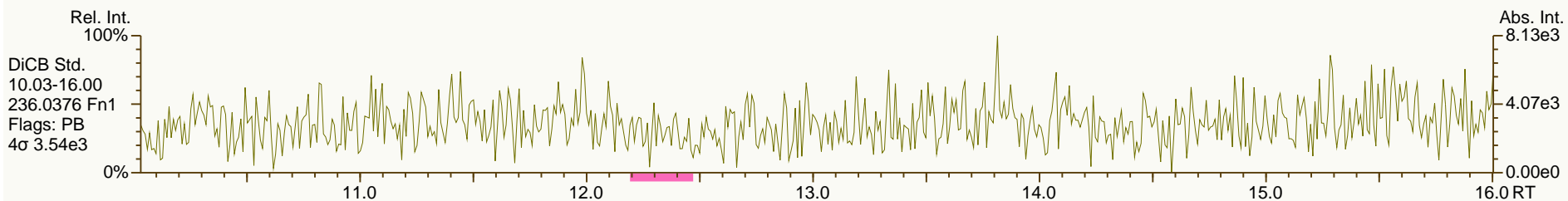
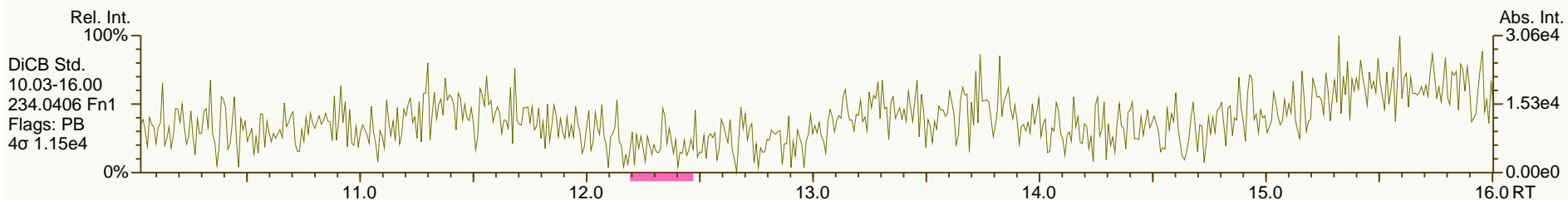
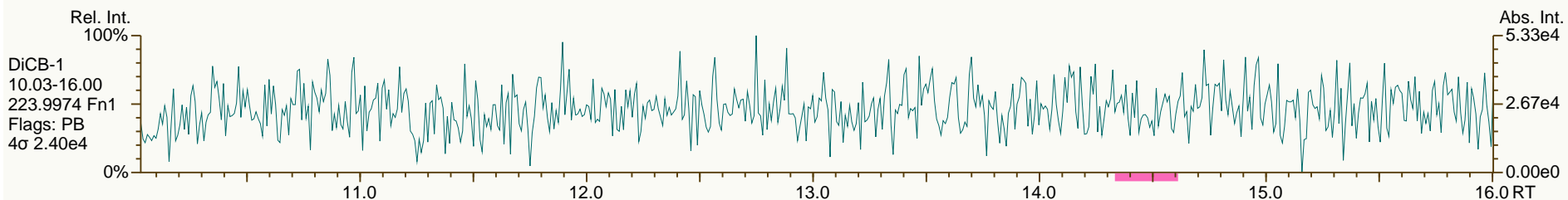
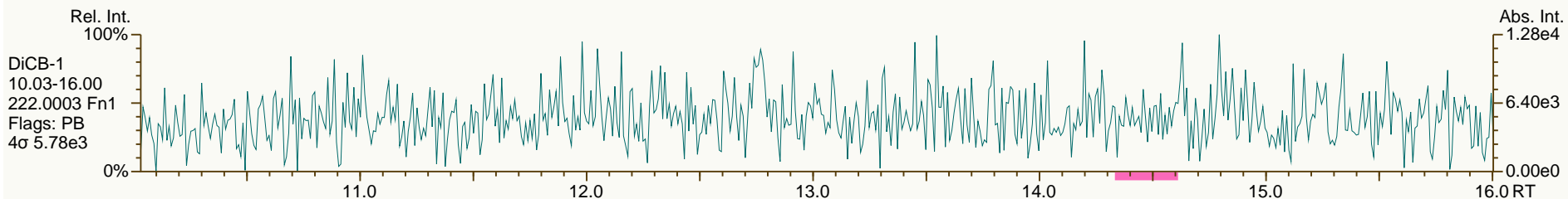
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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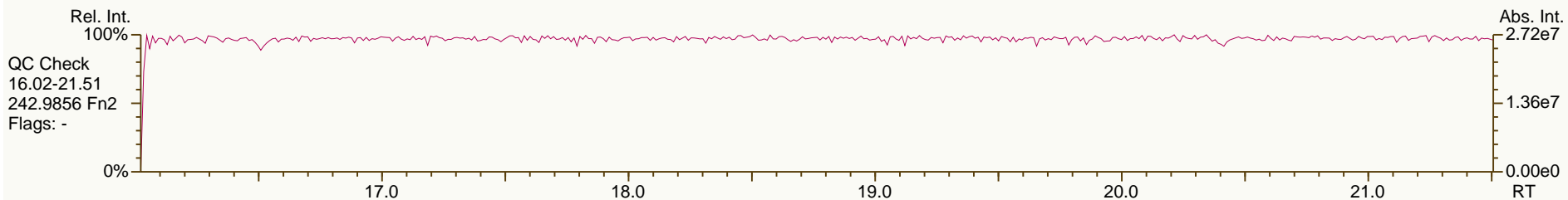
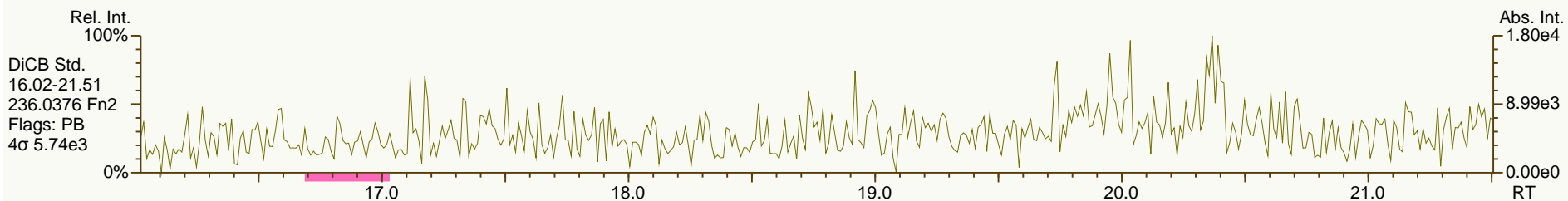
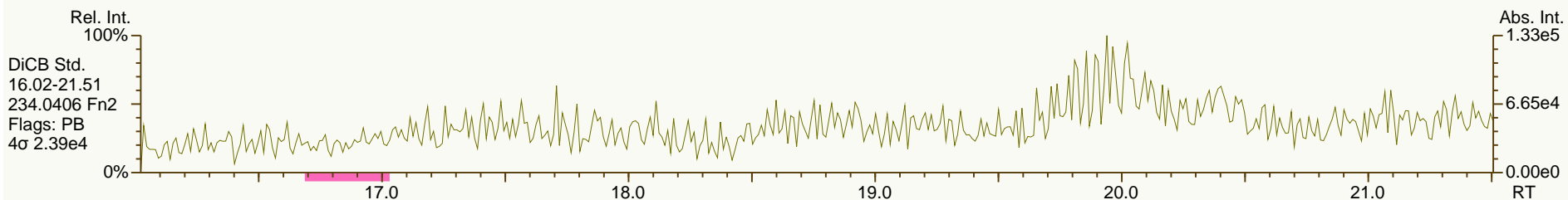
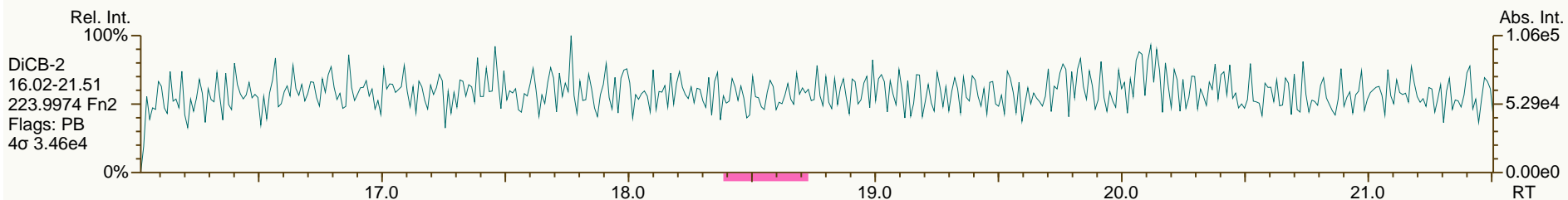
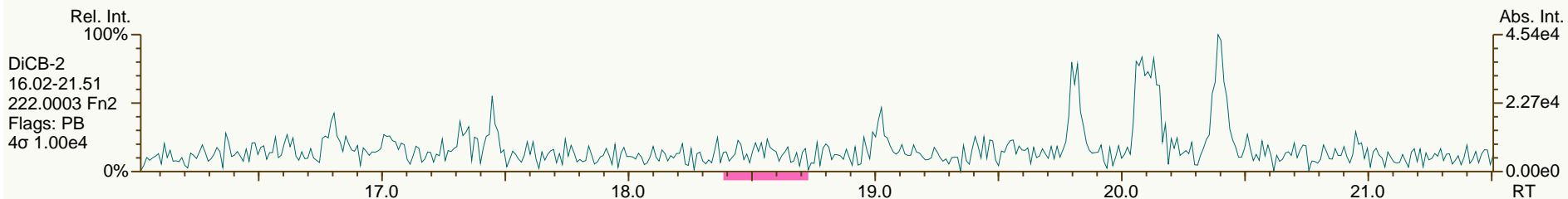
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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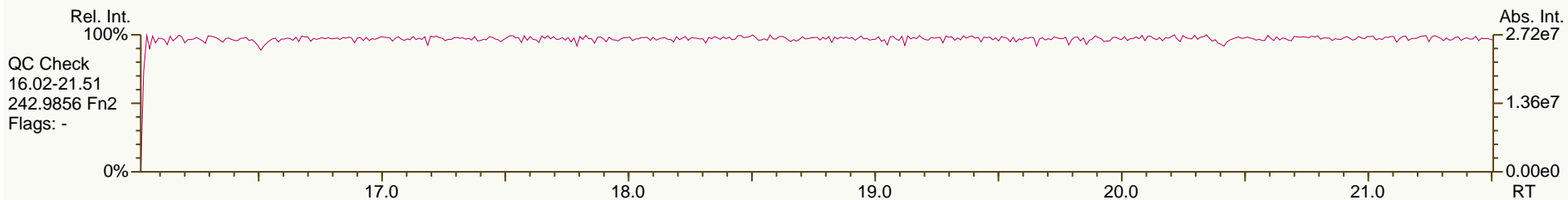
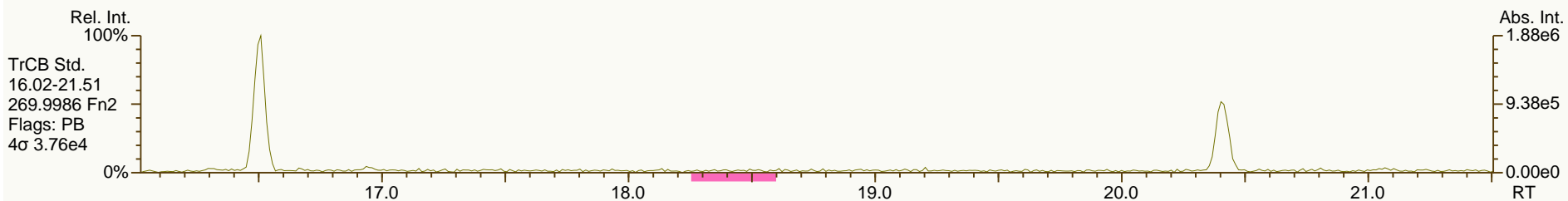
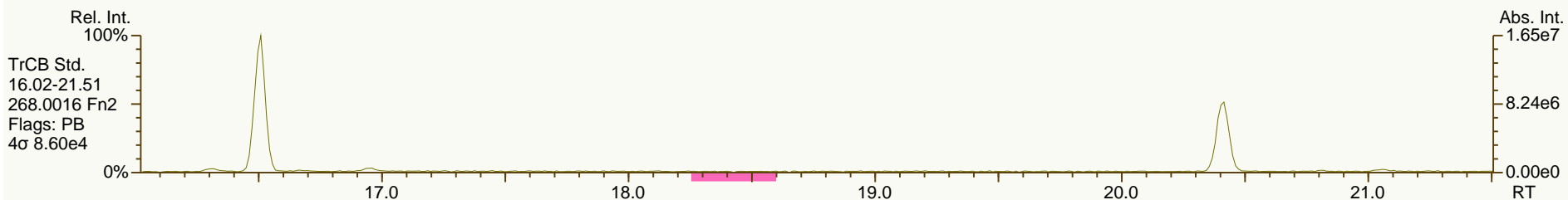
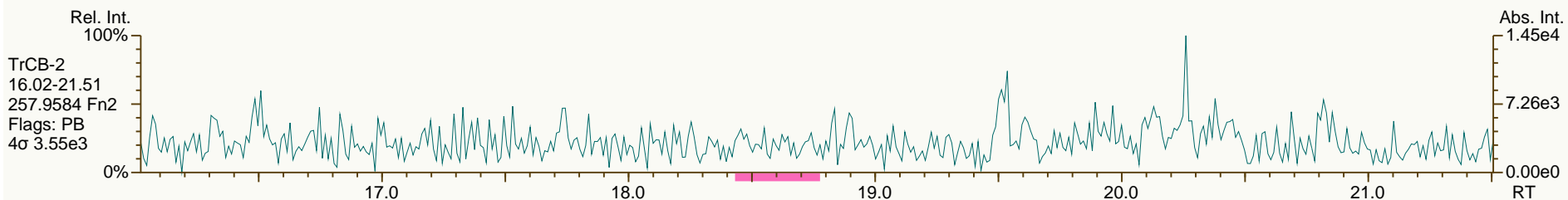
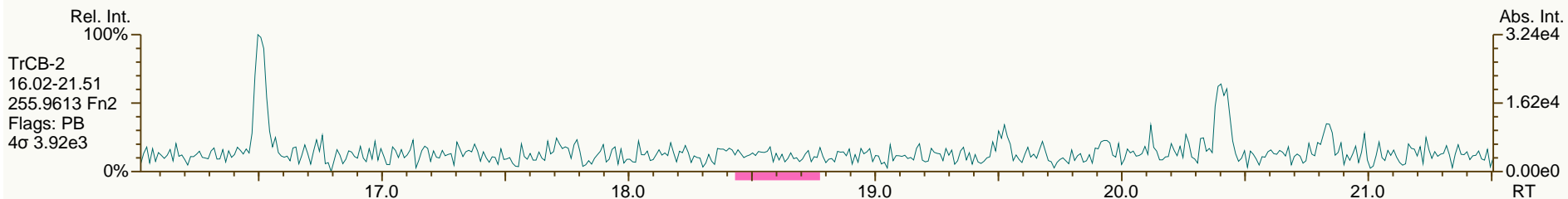




SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

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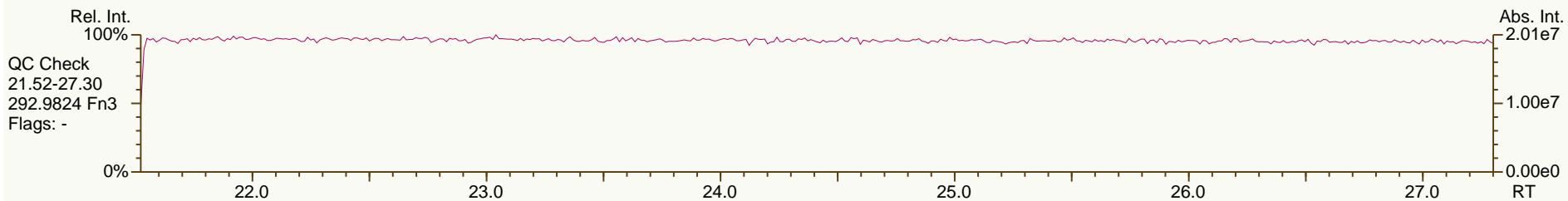
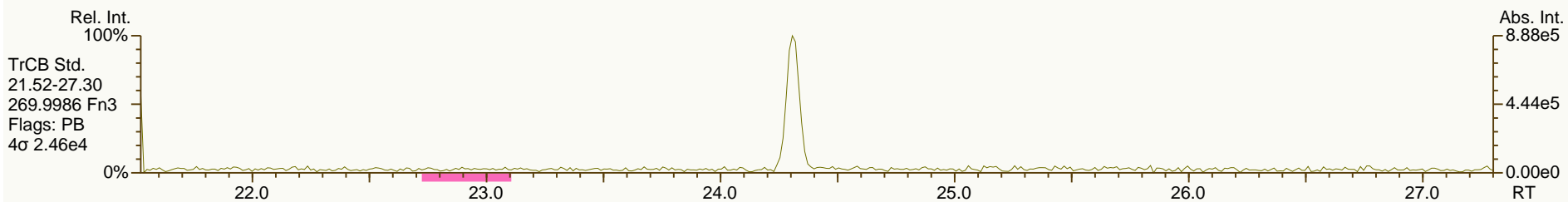
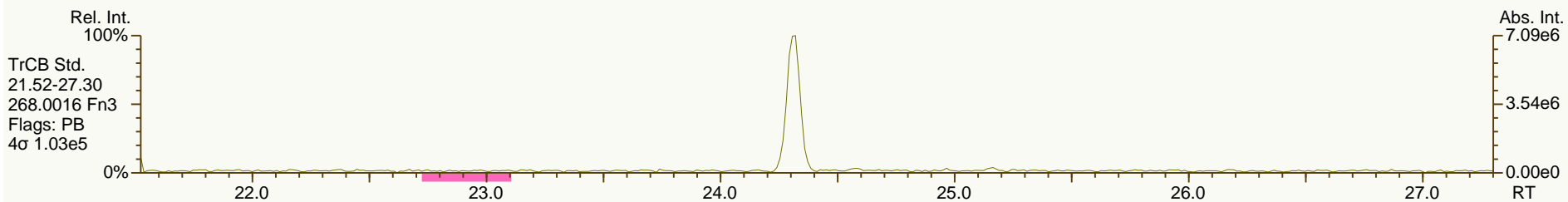
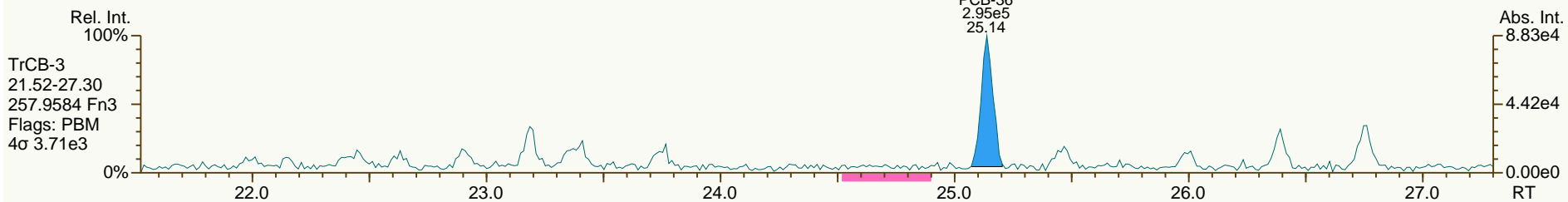
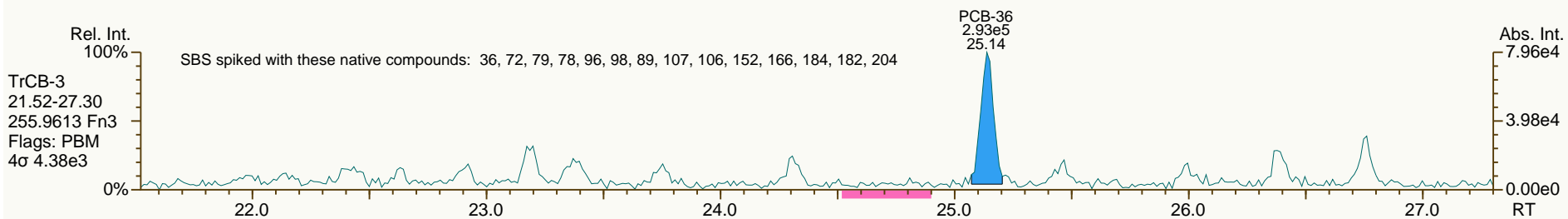
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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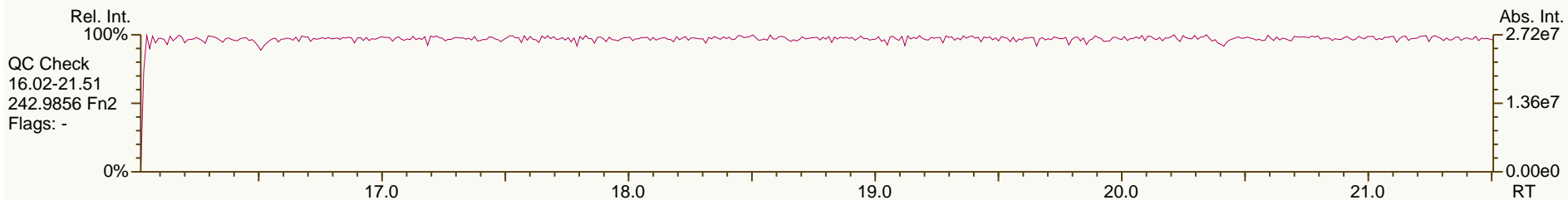
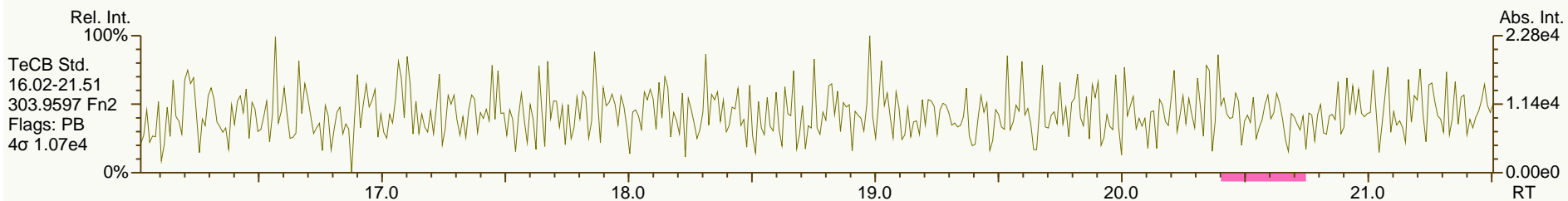
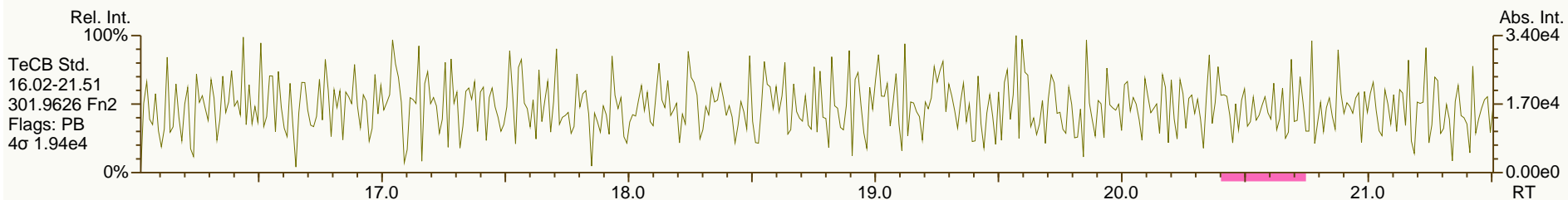
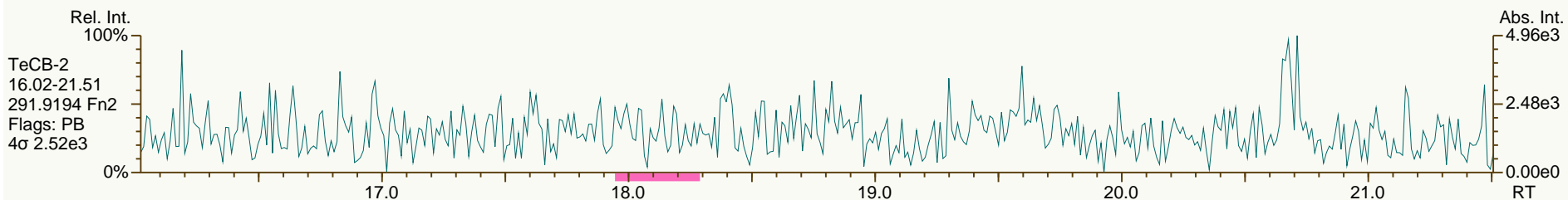
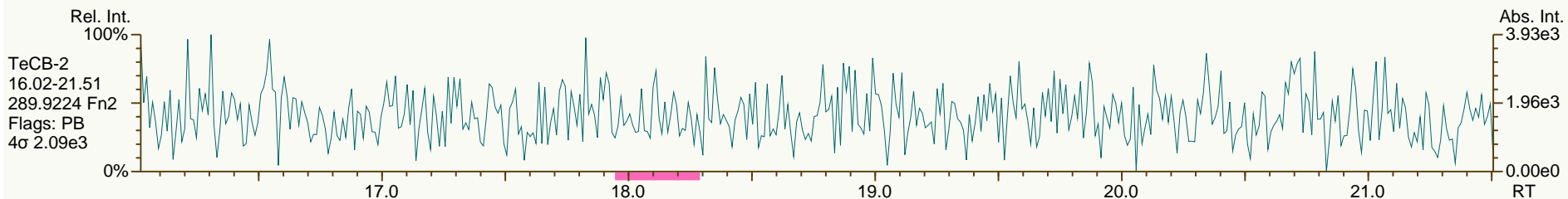
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

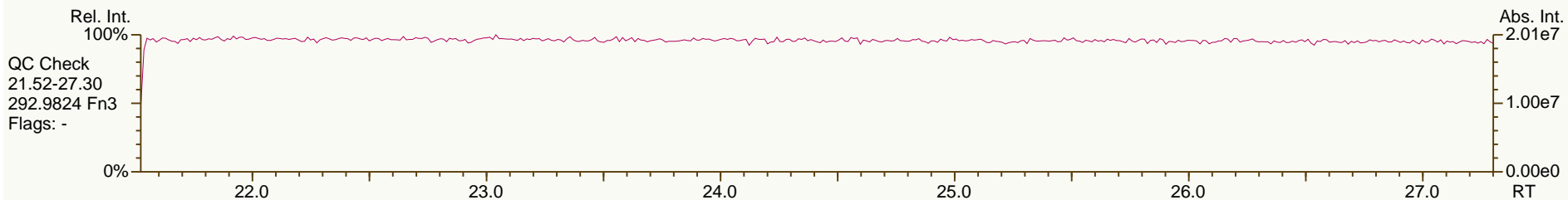
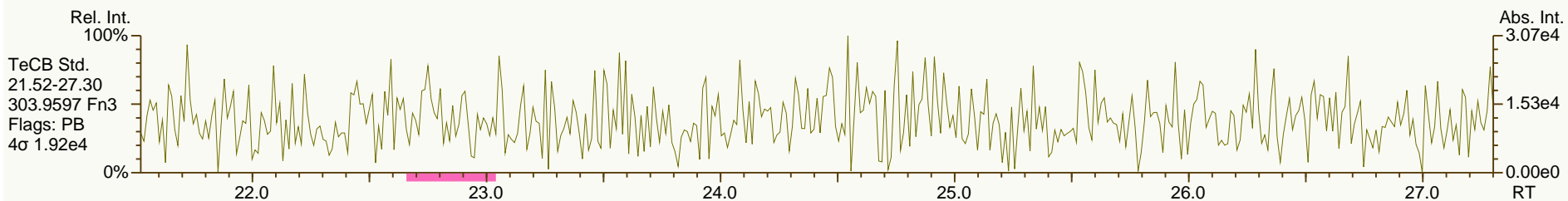
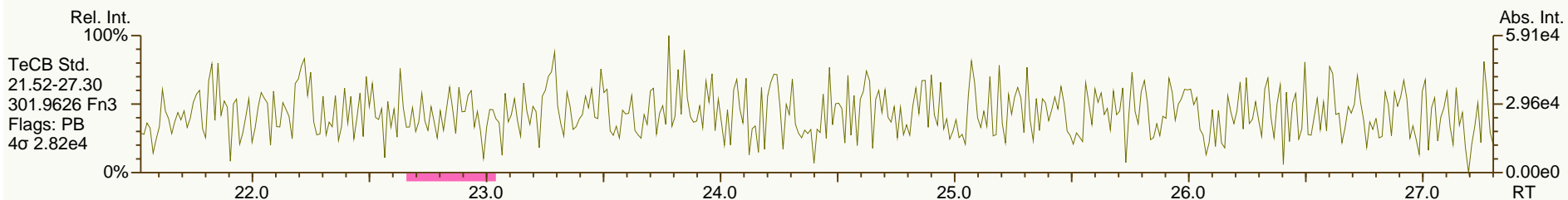
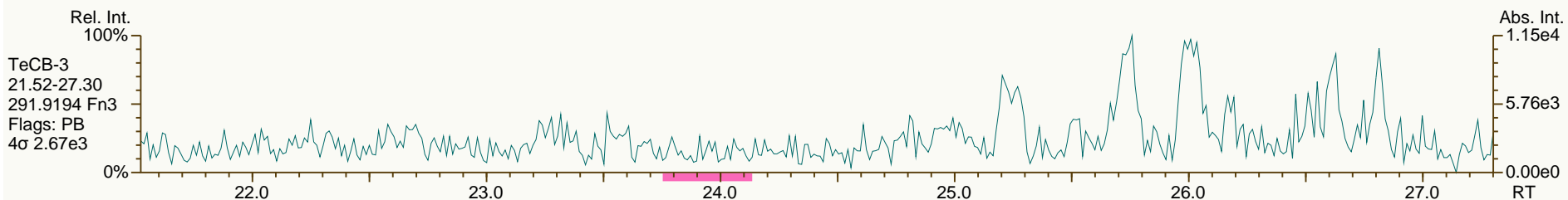
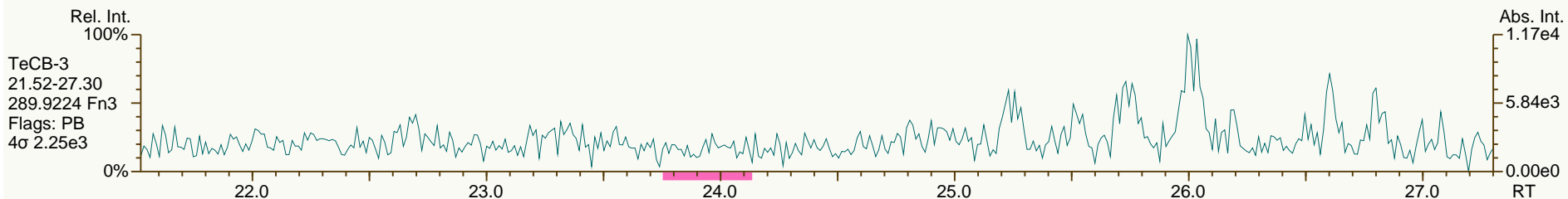
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

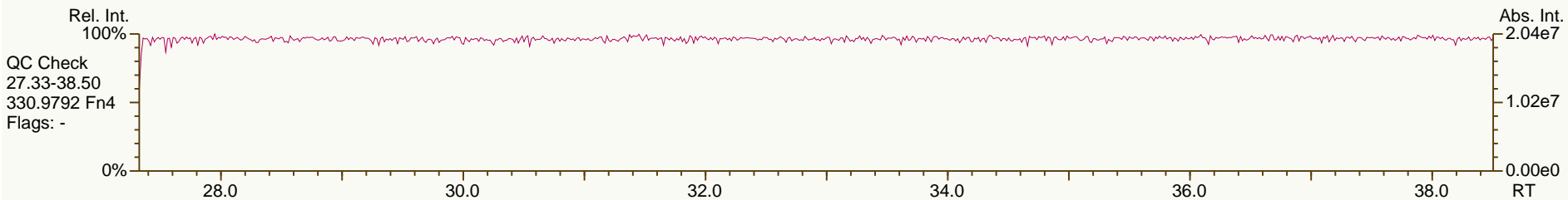
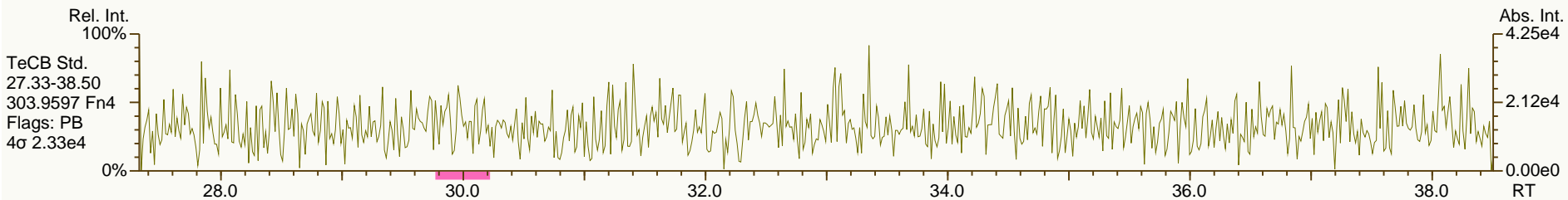
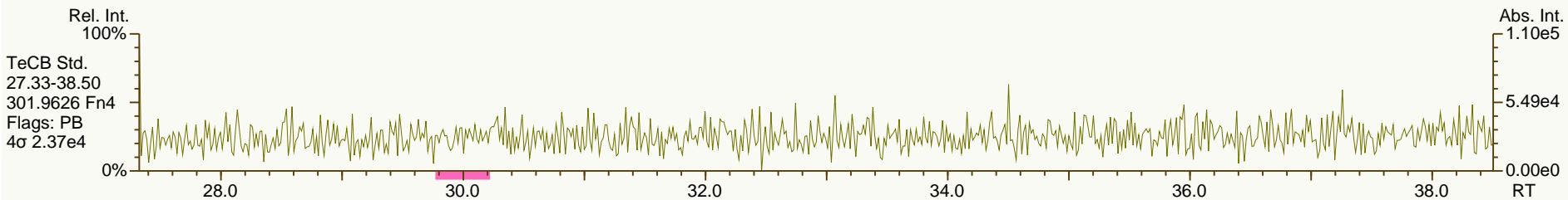
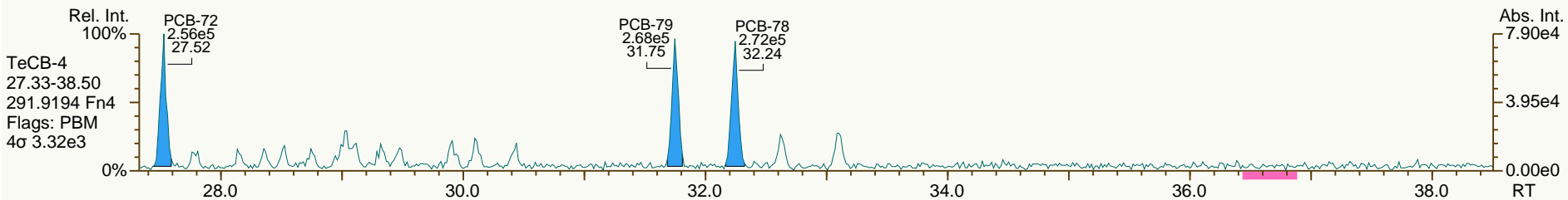
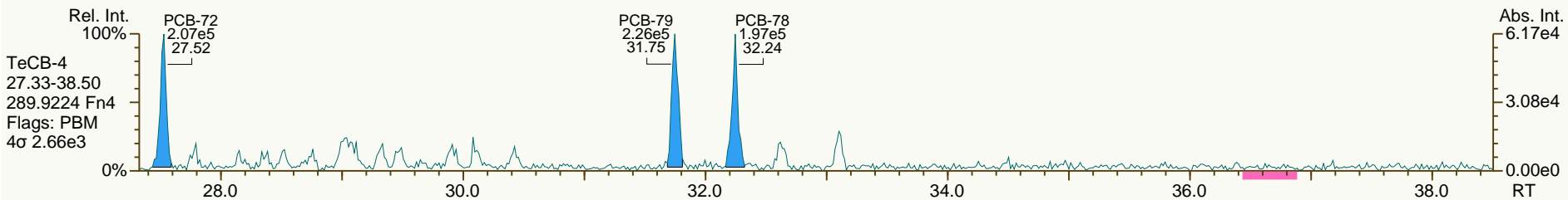
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

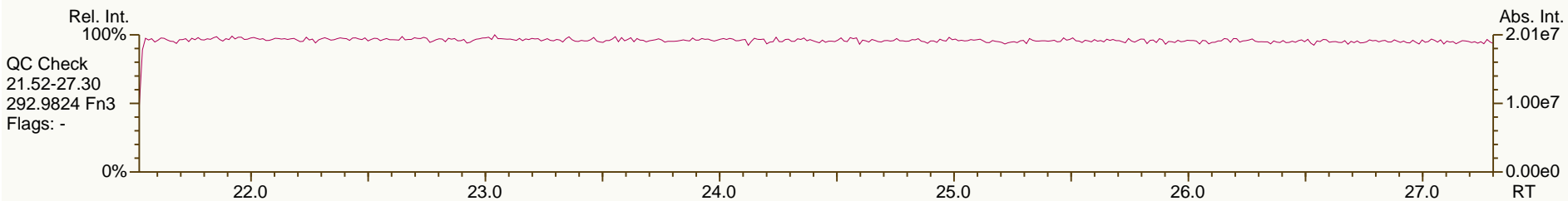
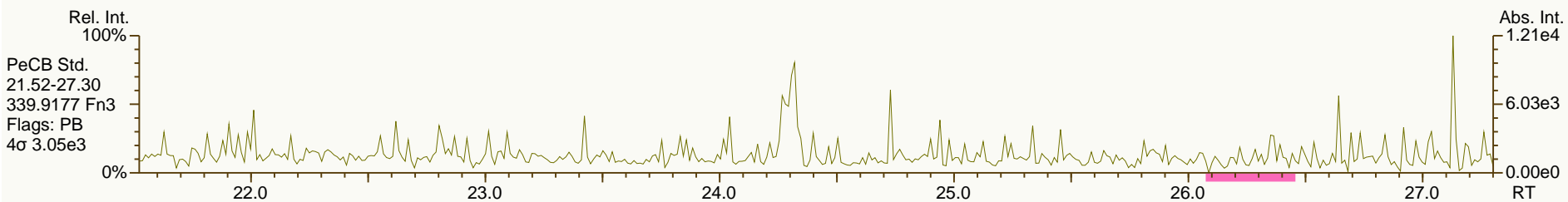
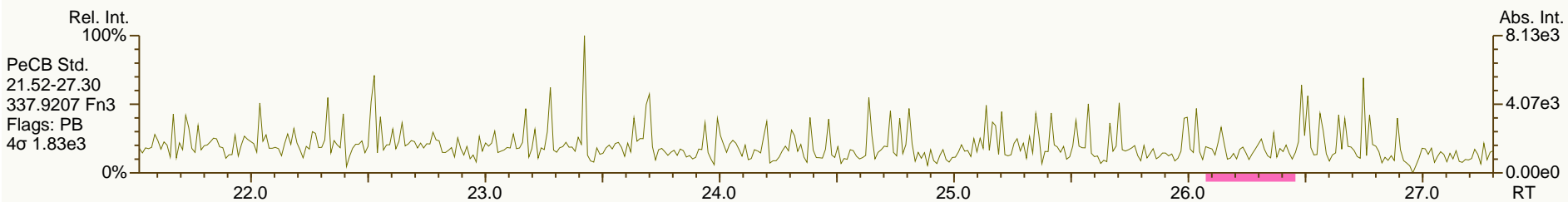
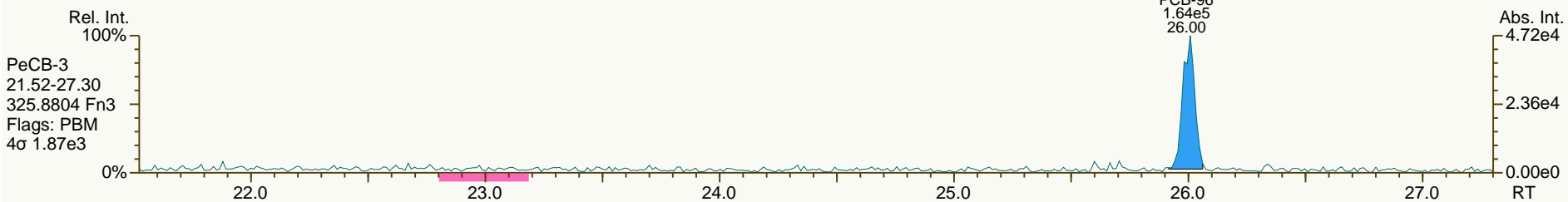
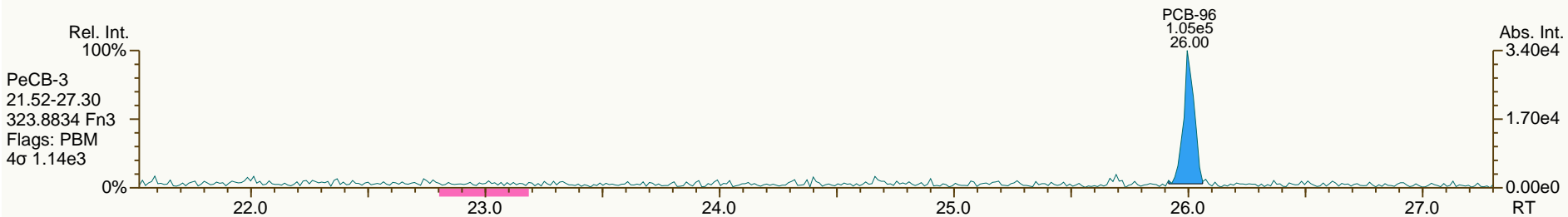
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

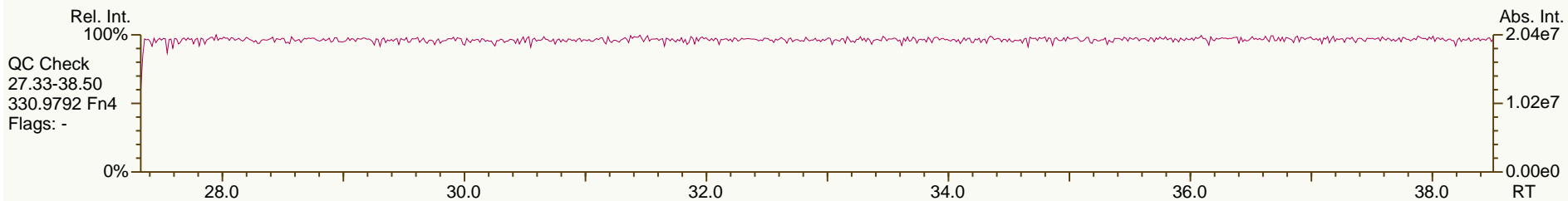
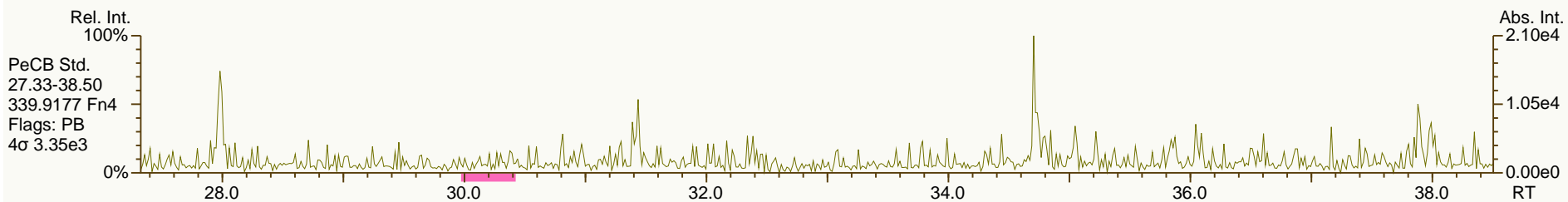
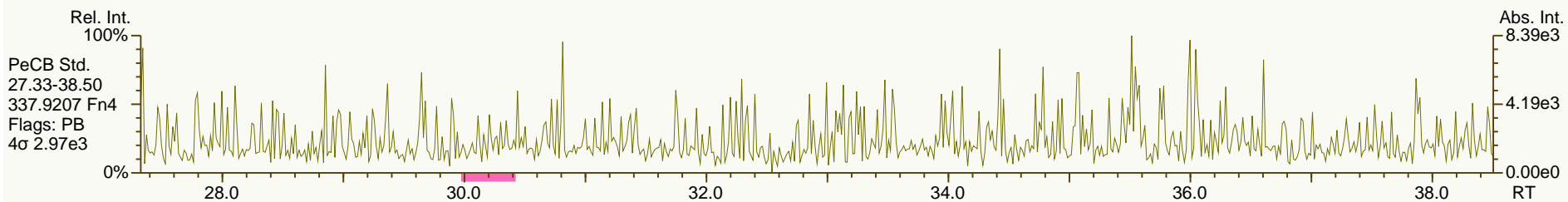
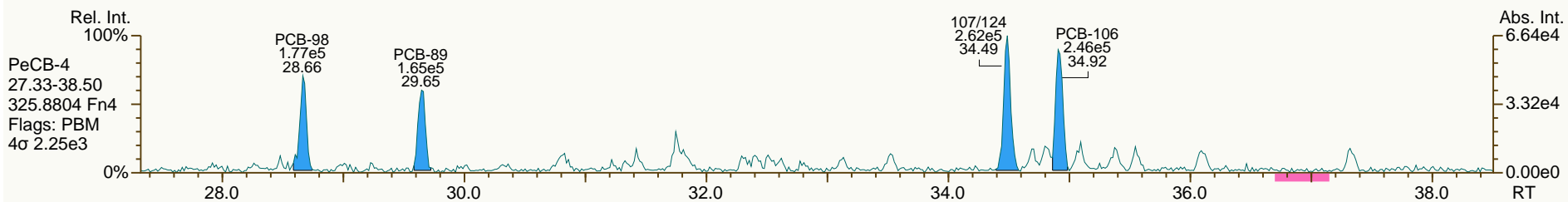
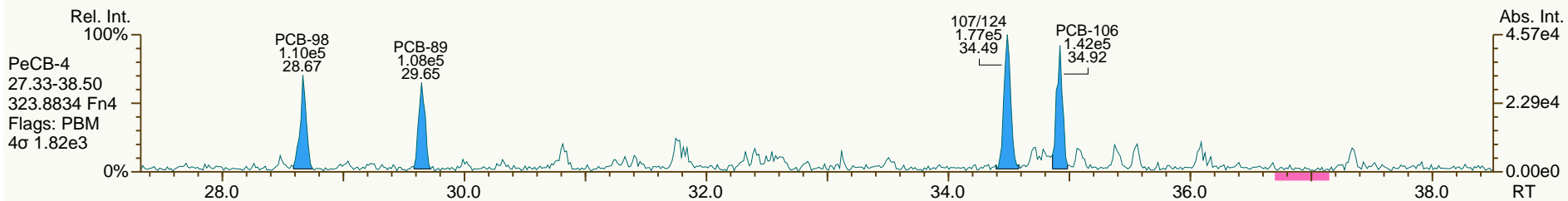
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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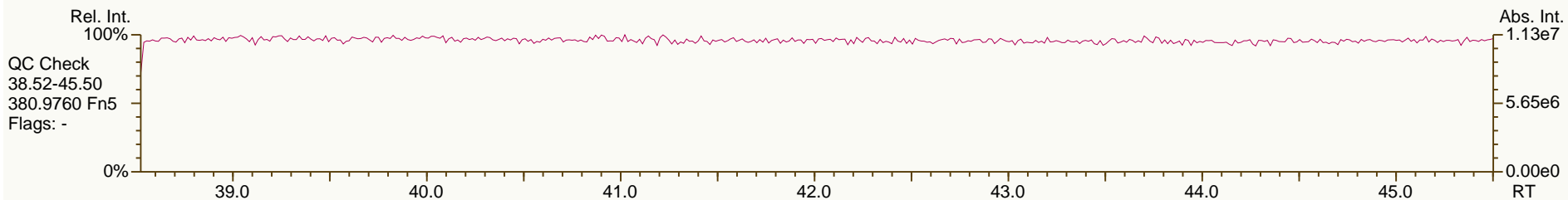
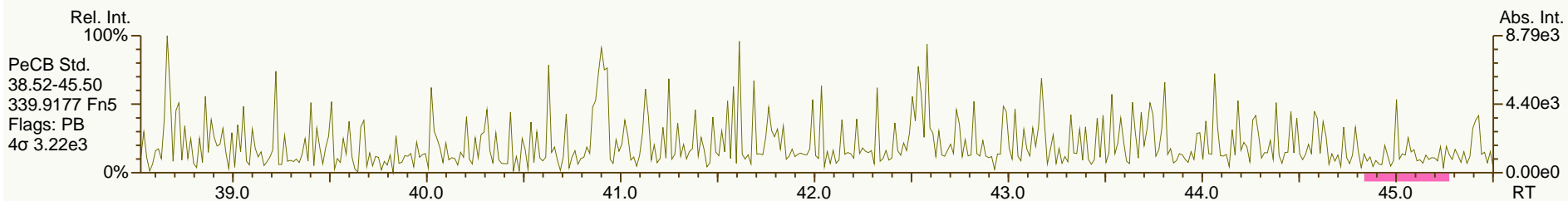
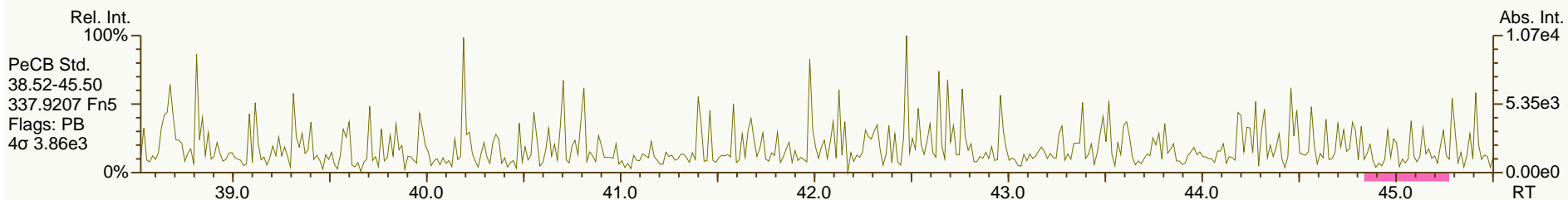
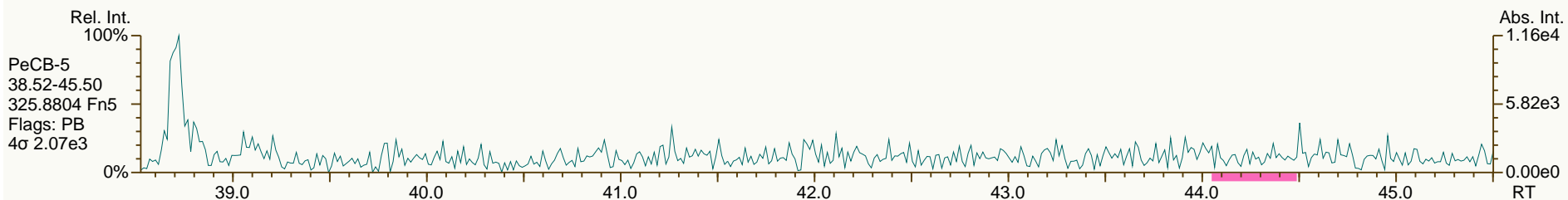
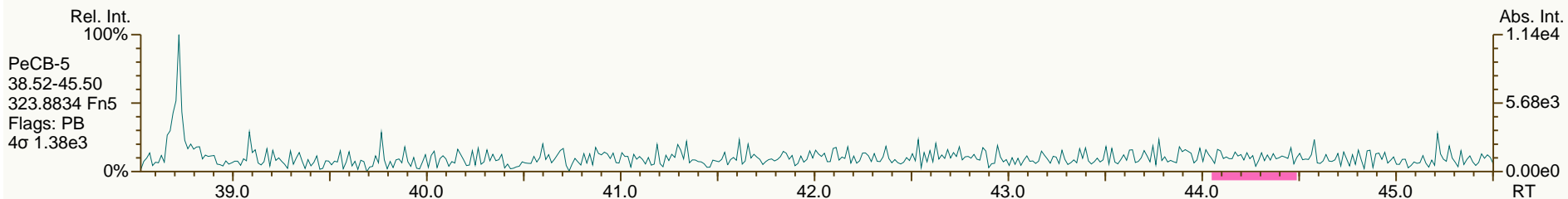
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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Acq: 20-Dec-2013 19:54:39  
 User: LKB Datafile: 131220X07

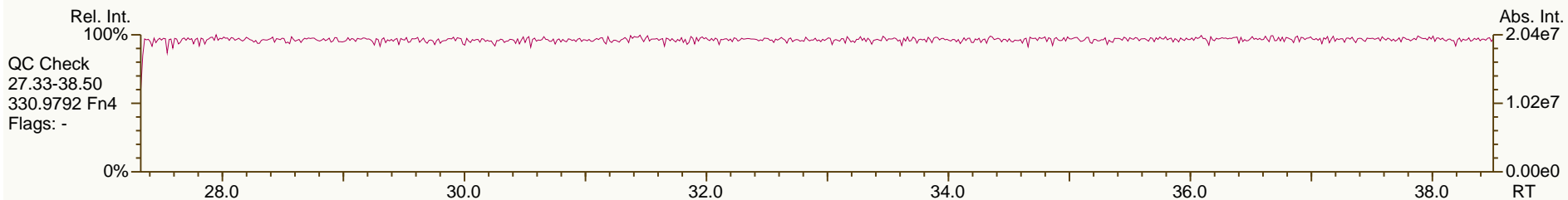
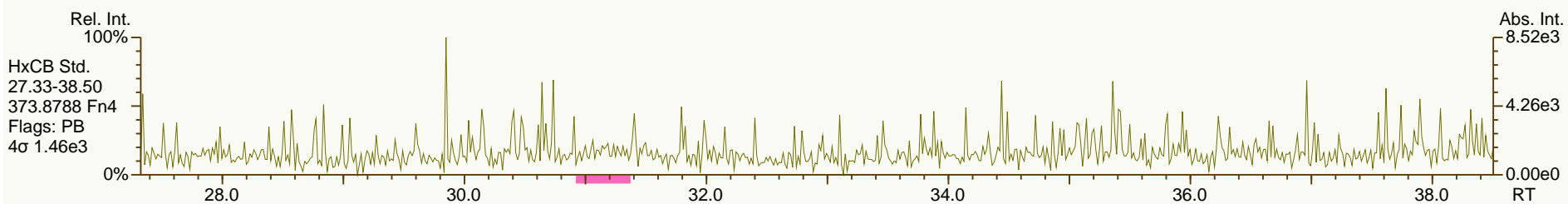
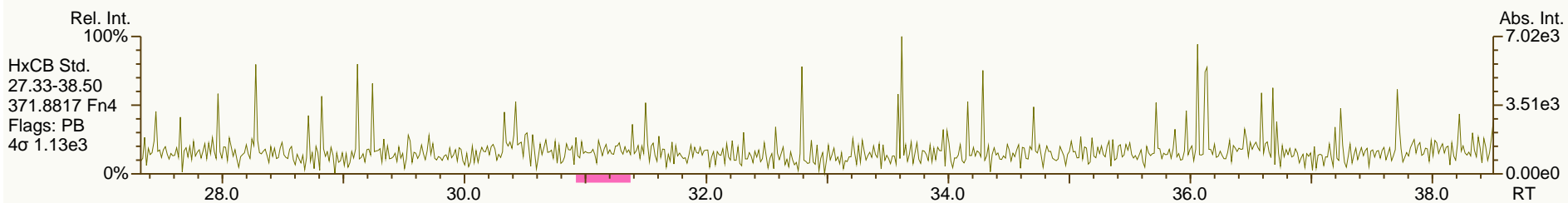
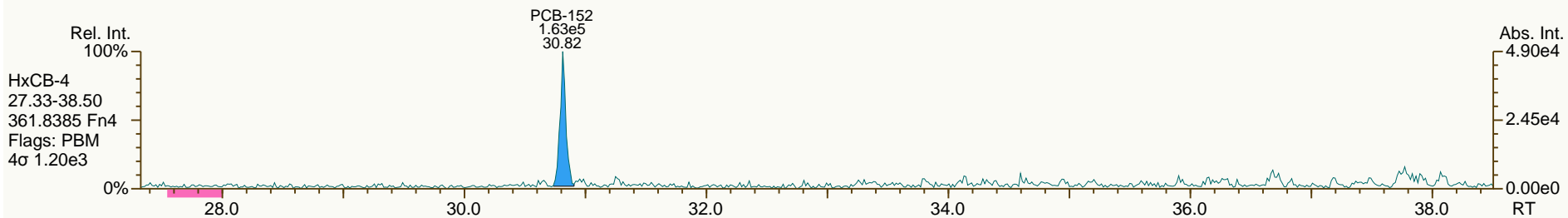
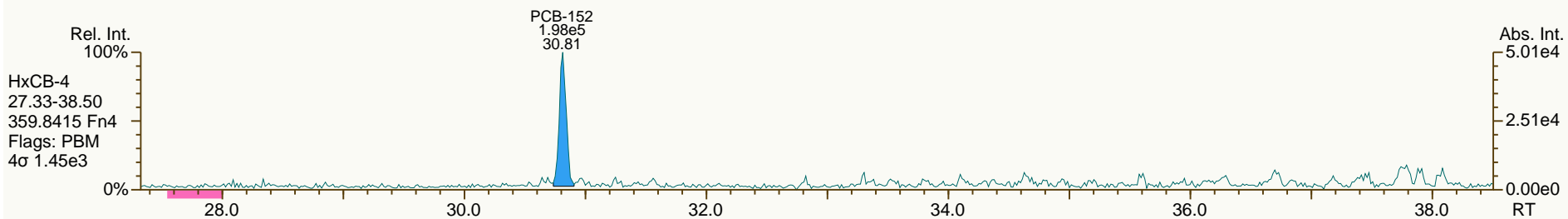




SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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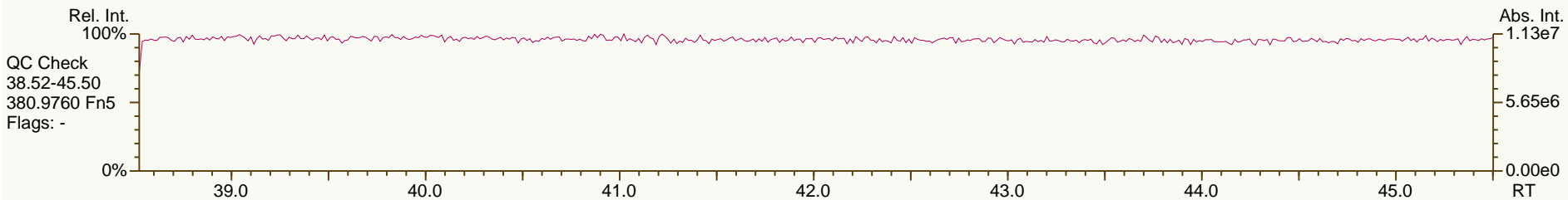
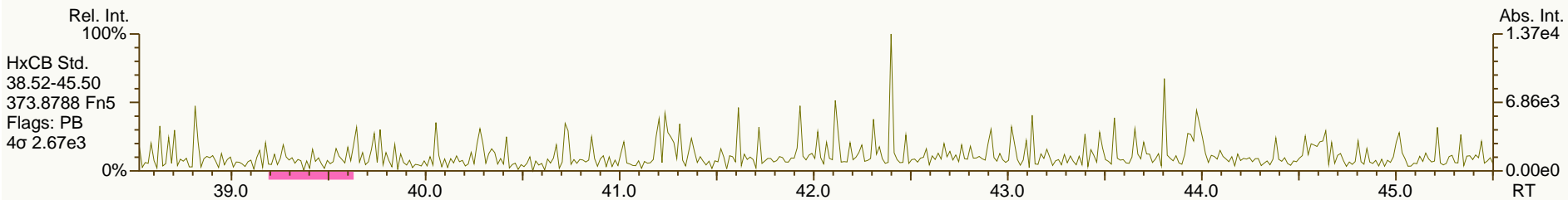
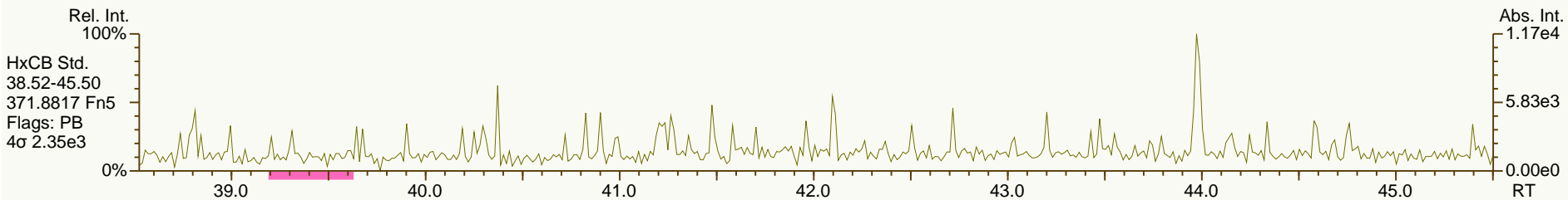
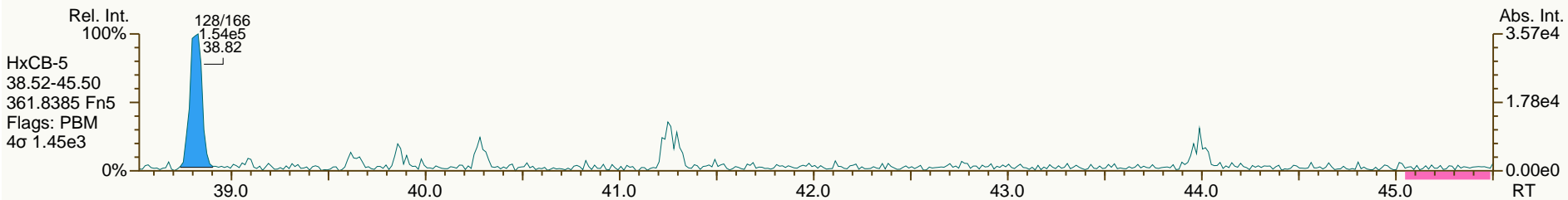
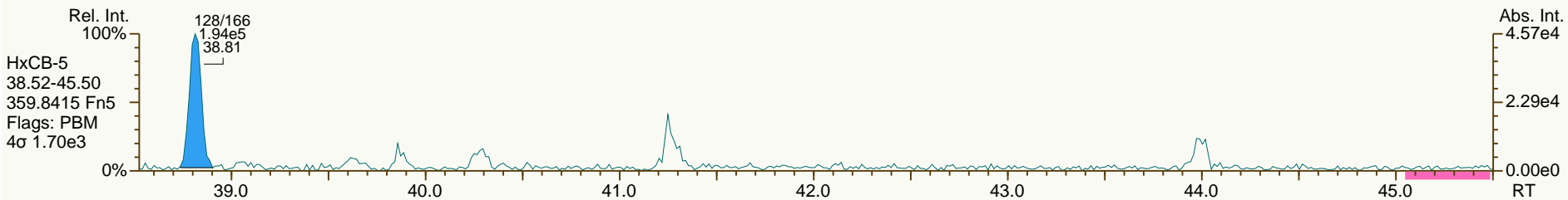
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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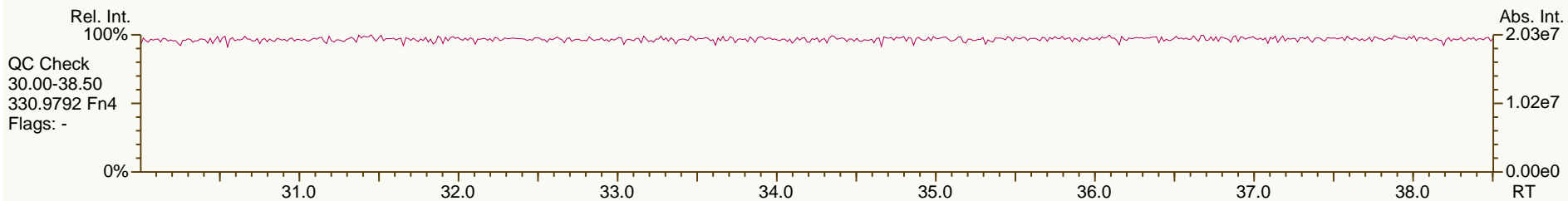
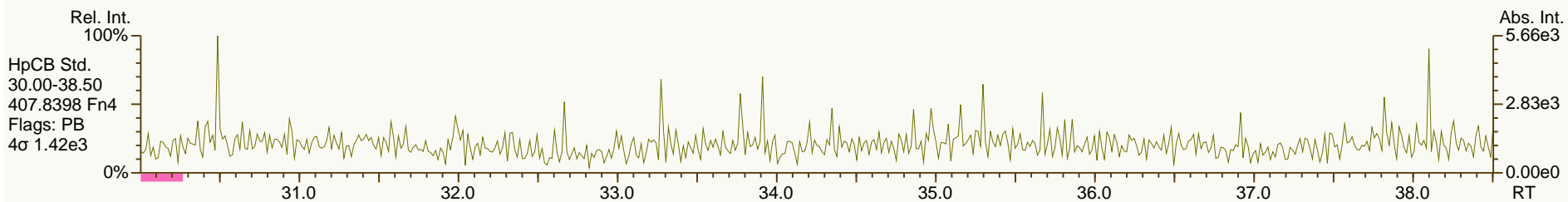
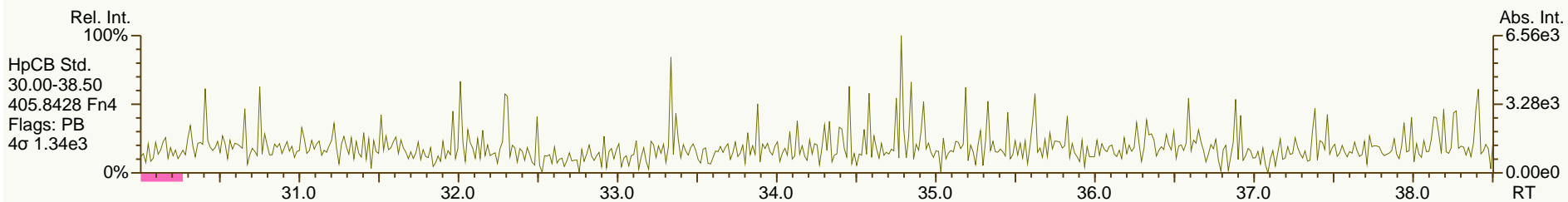
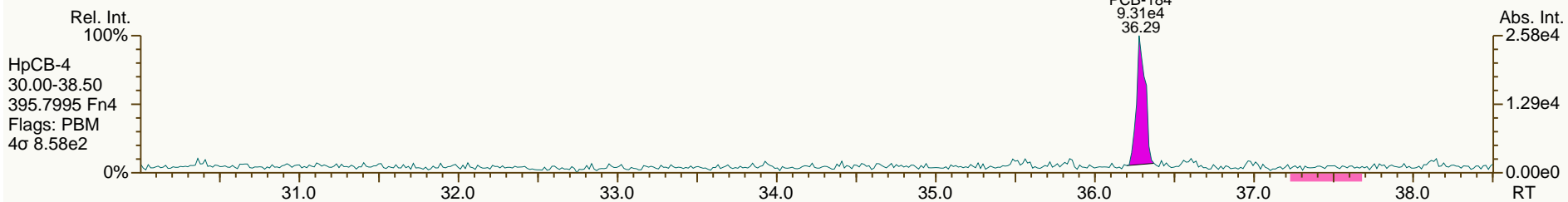
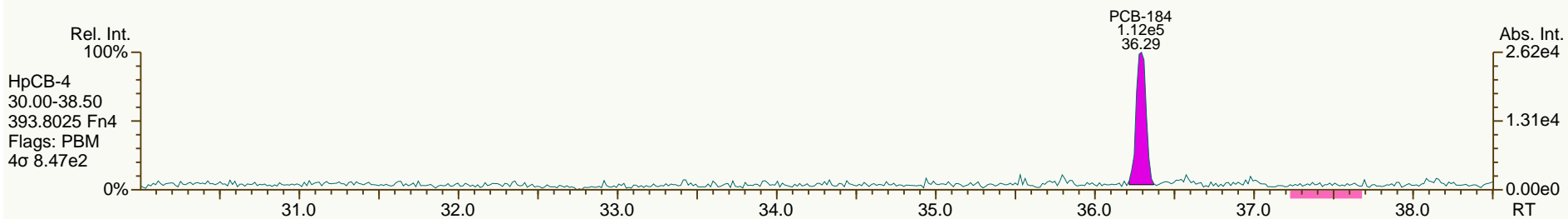
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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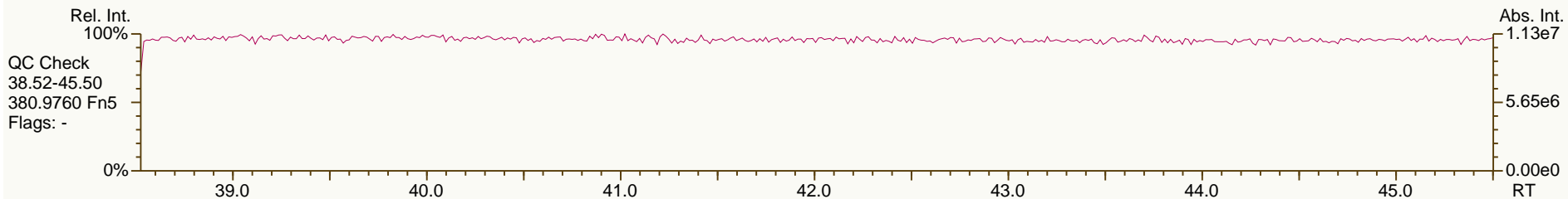
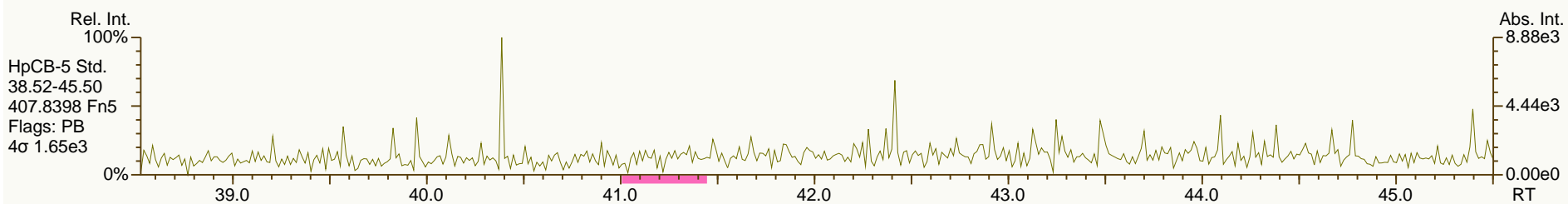
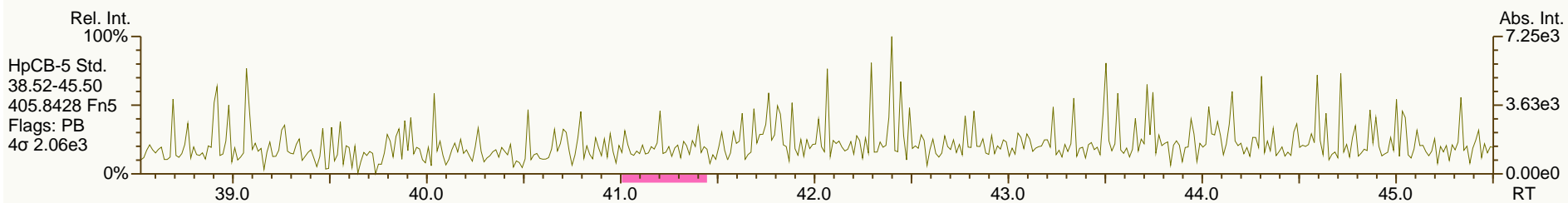
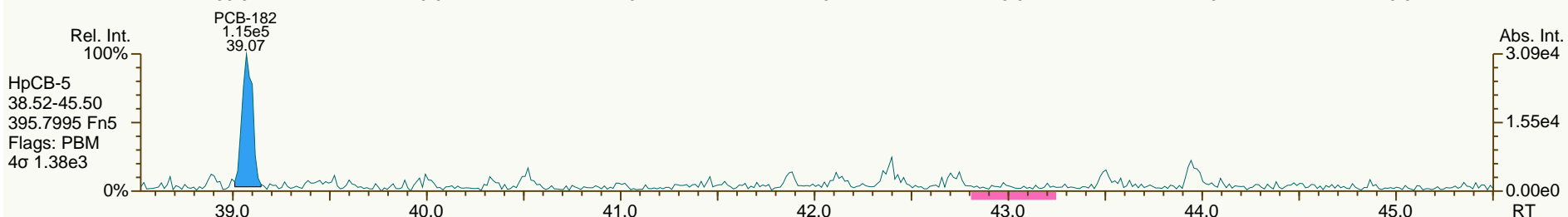
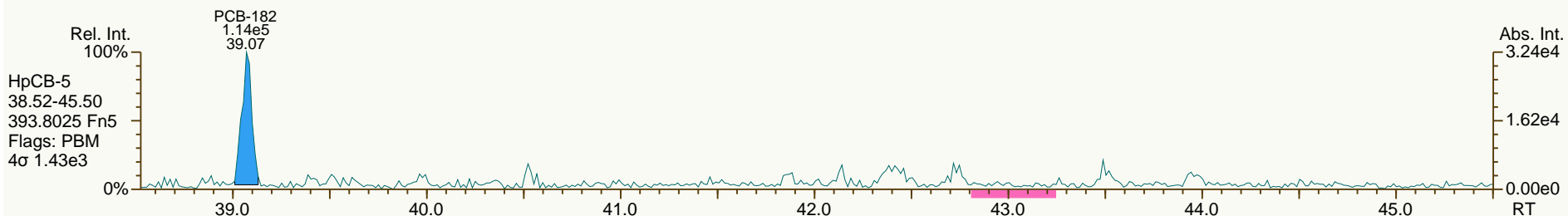
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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SGS-AP ID: SBS\_131220\_PCB\_XB  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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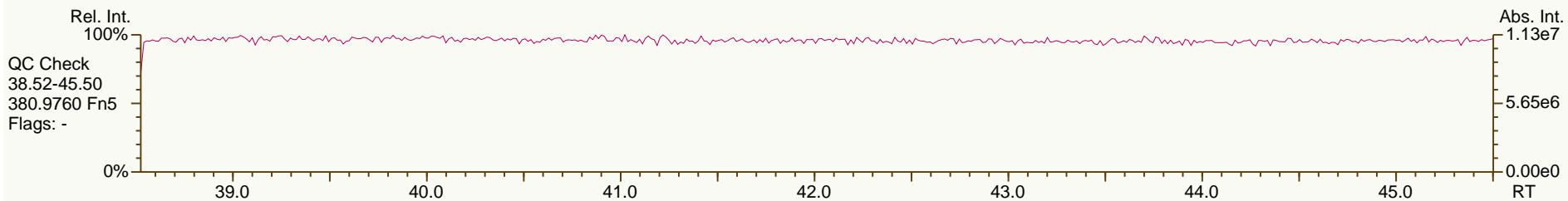
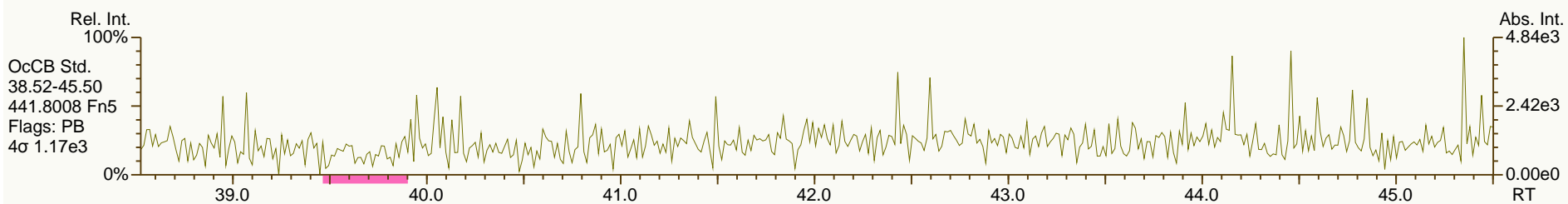
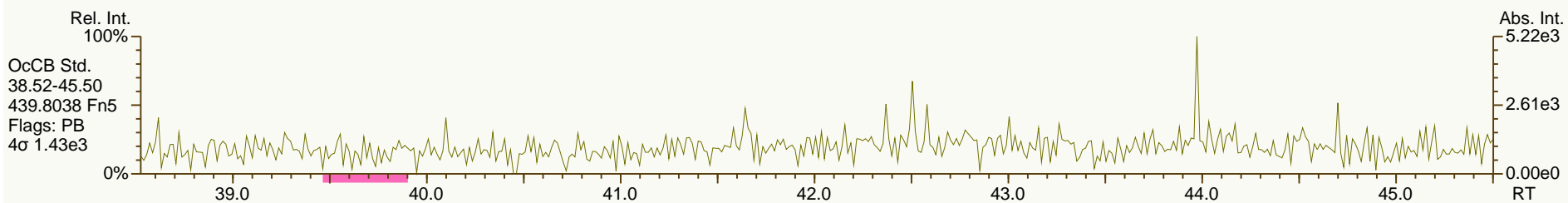
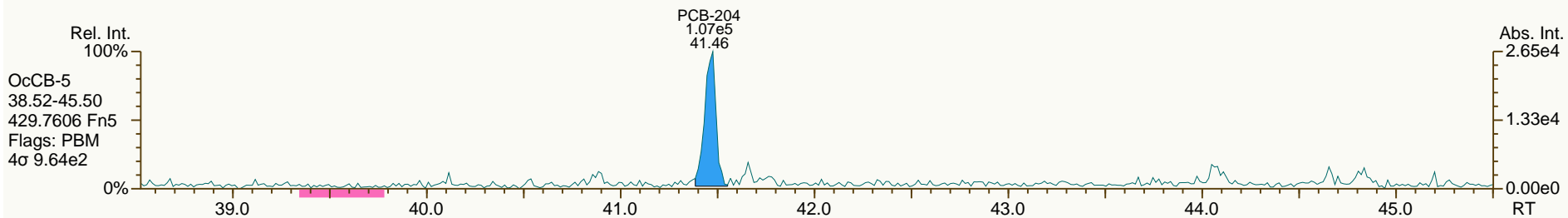
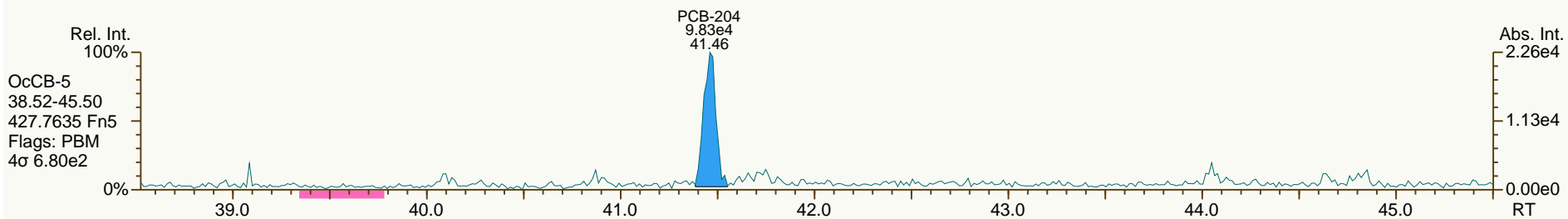
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SGS-AP ID: SBS\_131220\_PCB\_XB  
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Sample ID: SIL 9-42-1  
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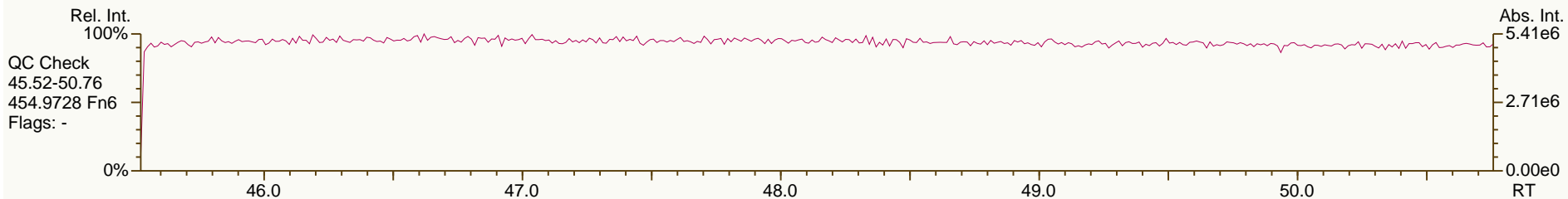
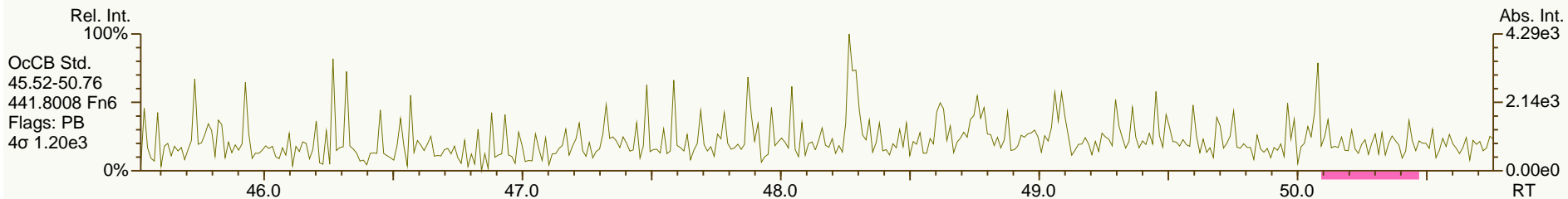
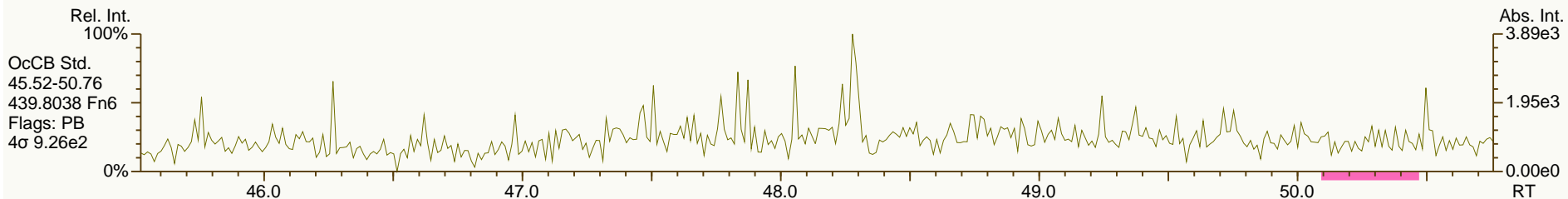
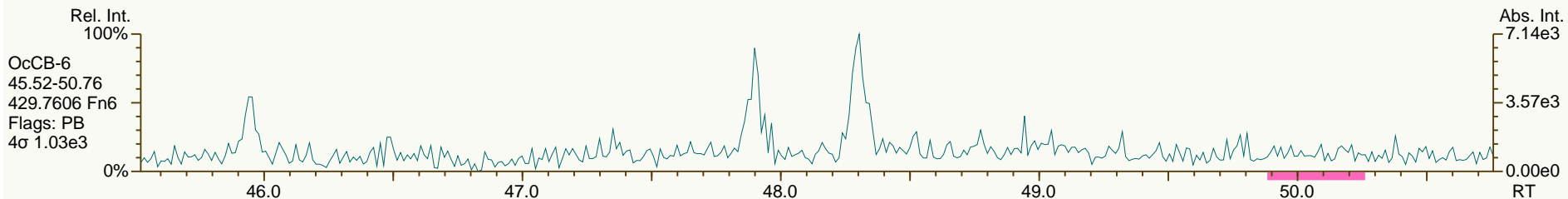
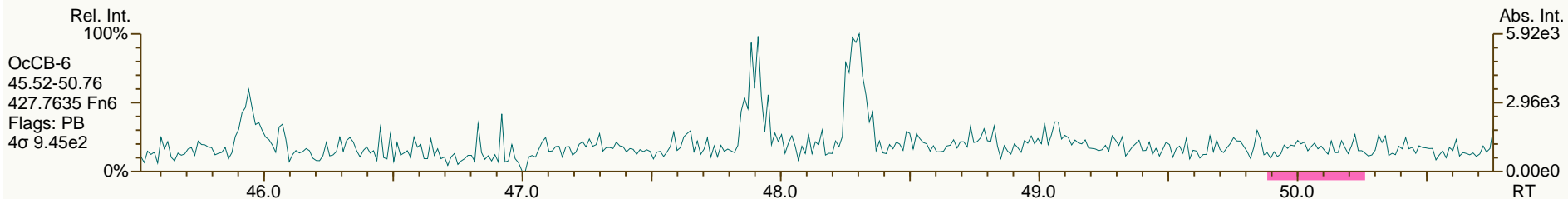
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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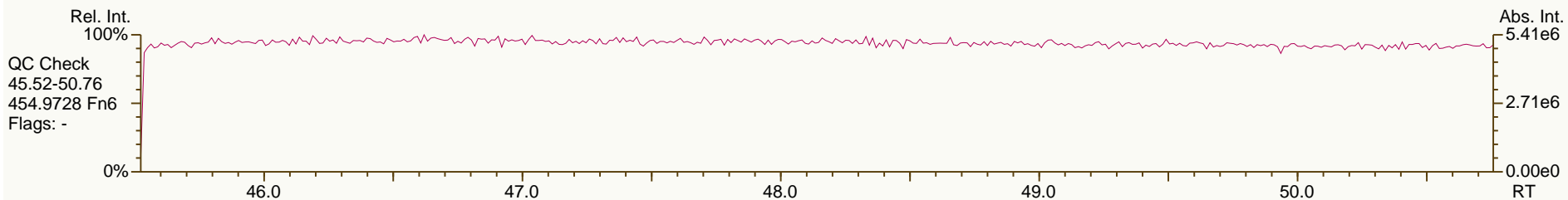
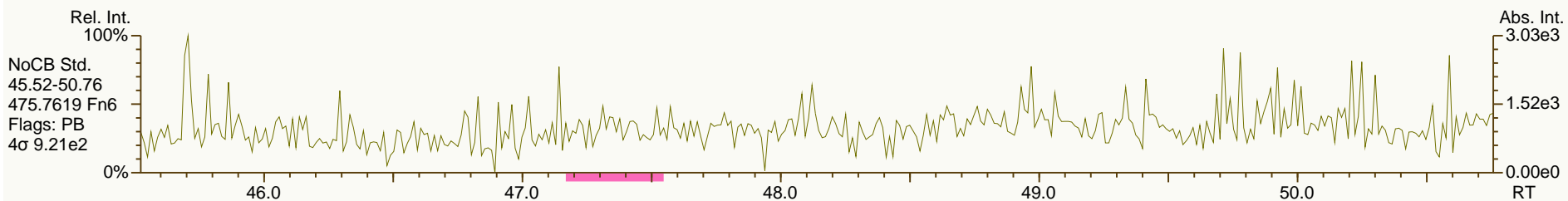
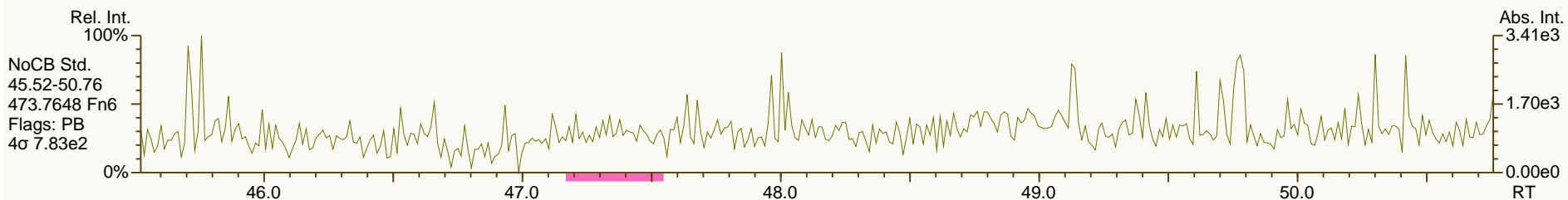
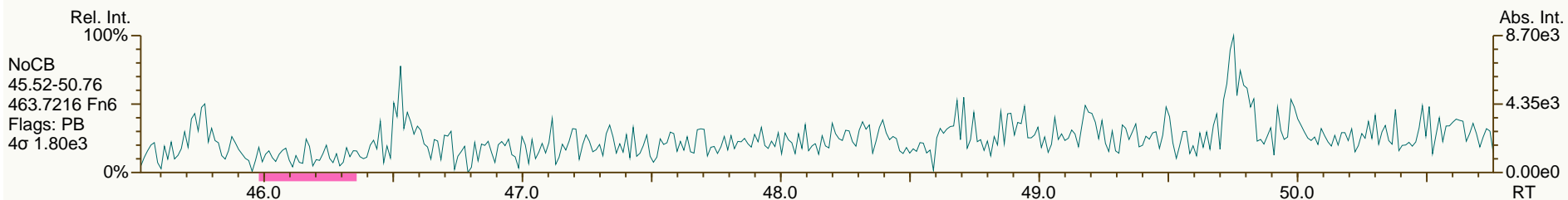
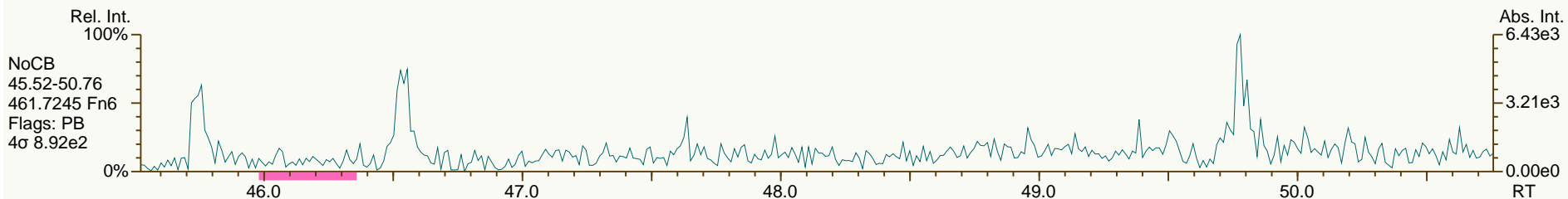
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SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 19:54:39  
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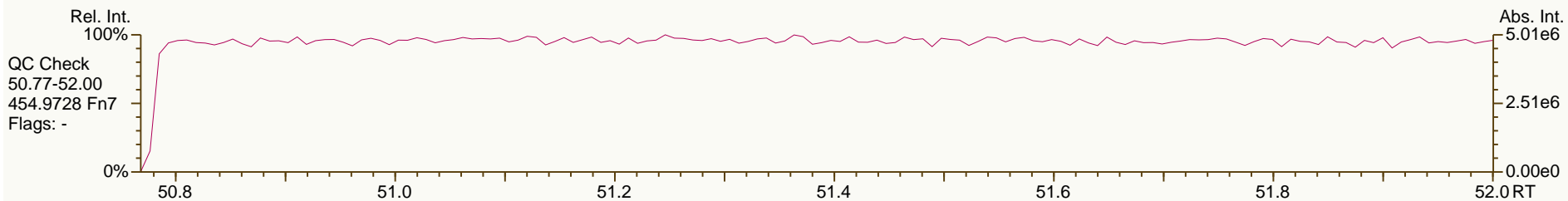
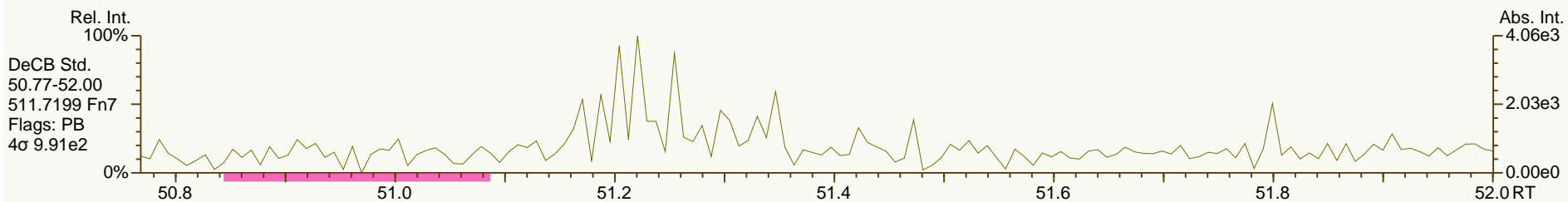
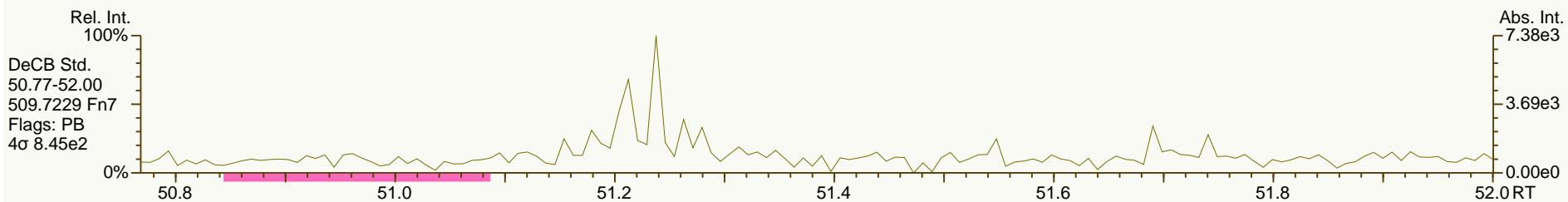
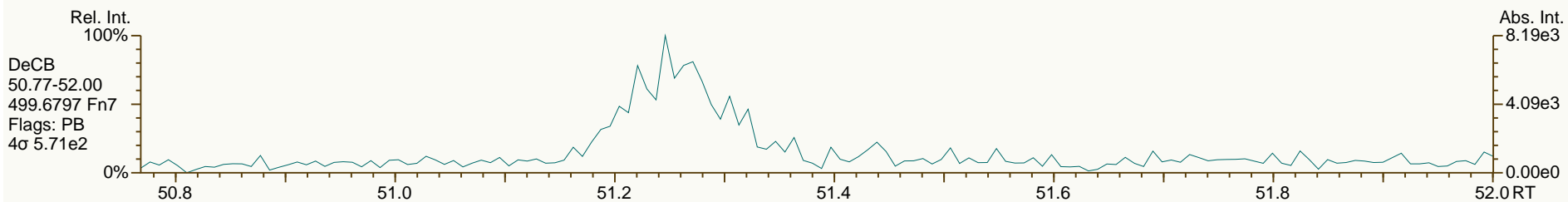
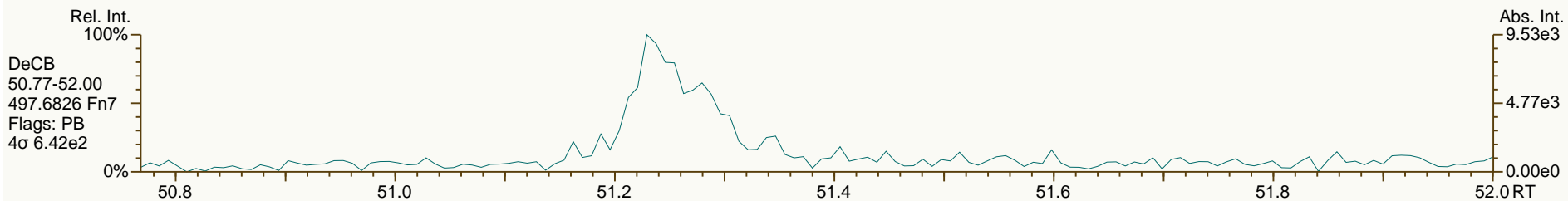




SGS-AP ID: SBS\_131220\_PCB\_XB  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

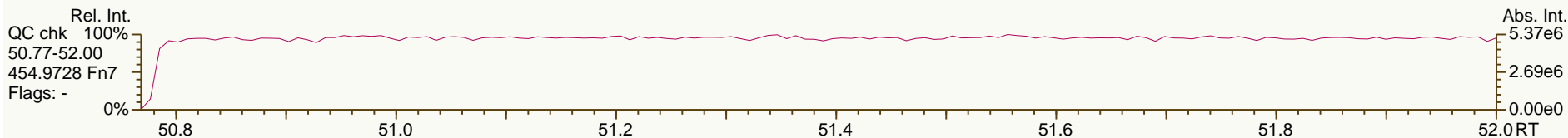
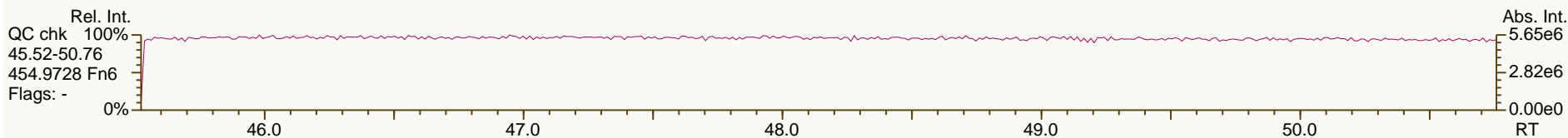
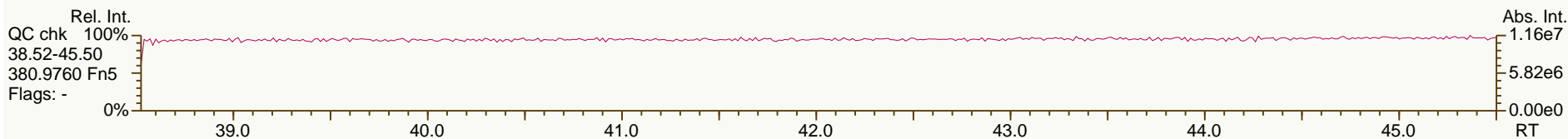
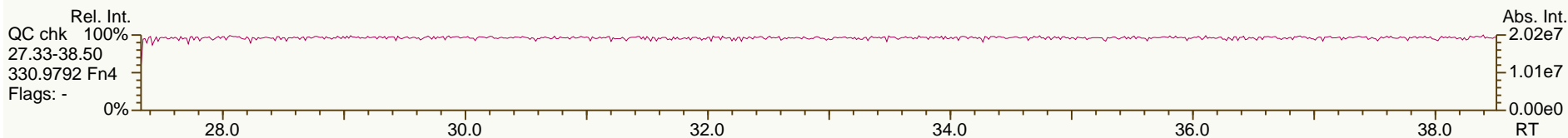
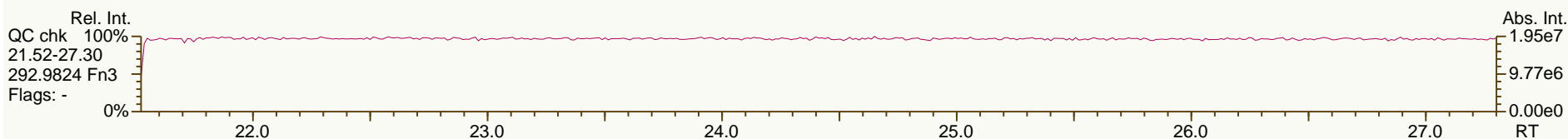
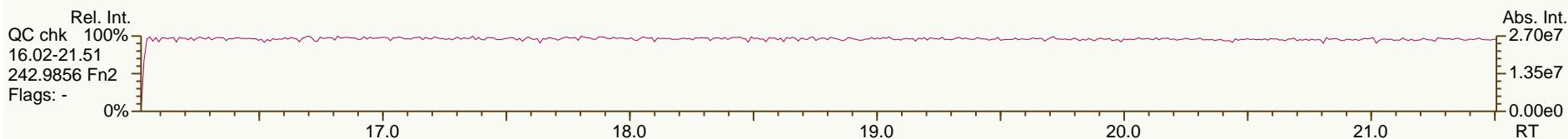
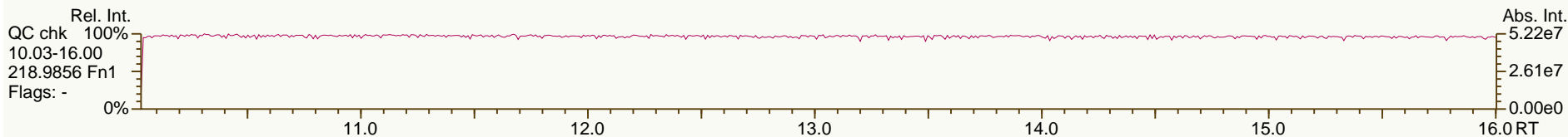
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

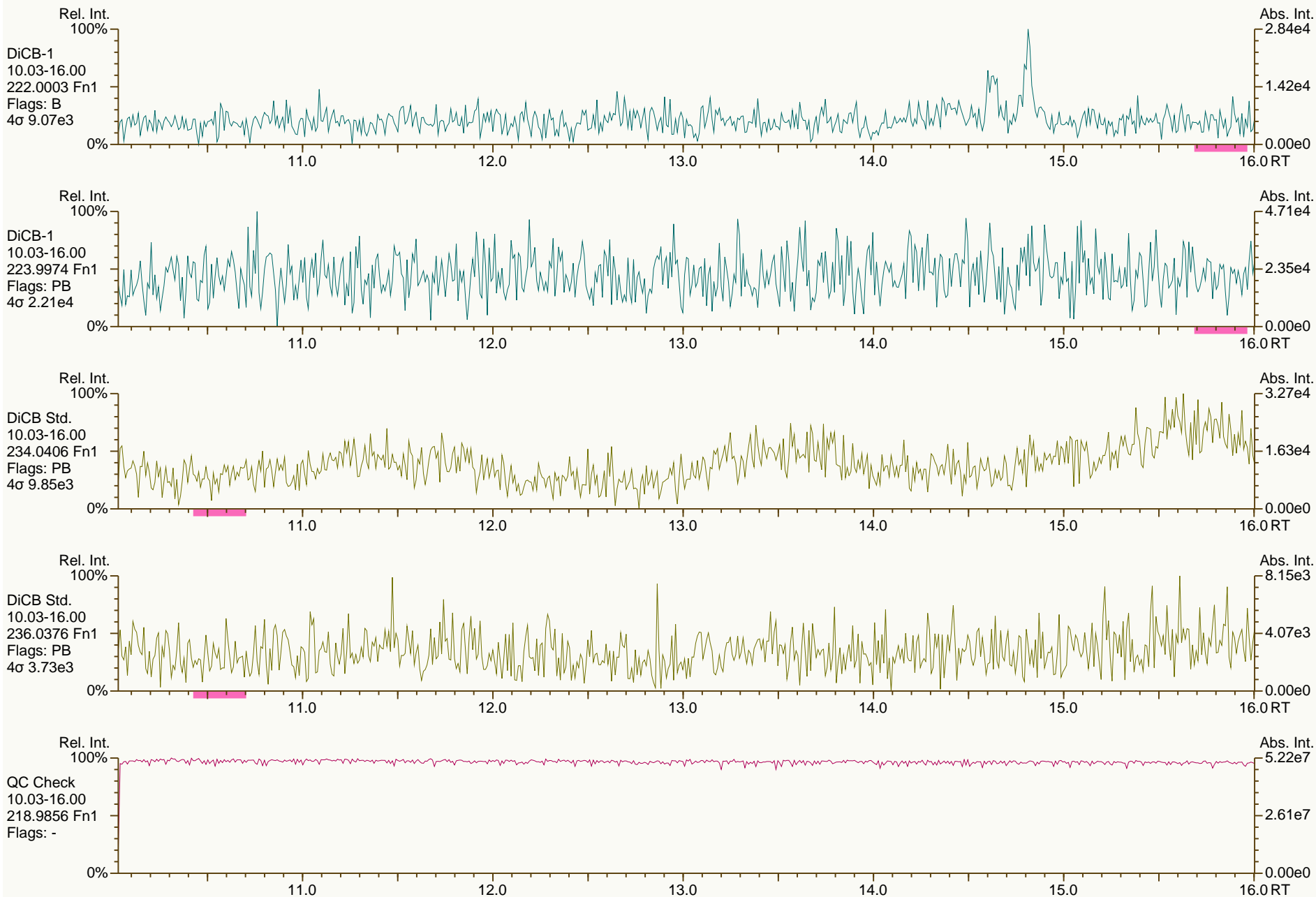
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
User: LKB Datafile: 131220X09



SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

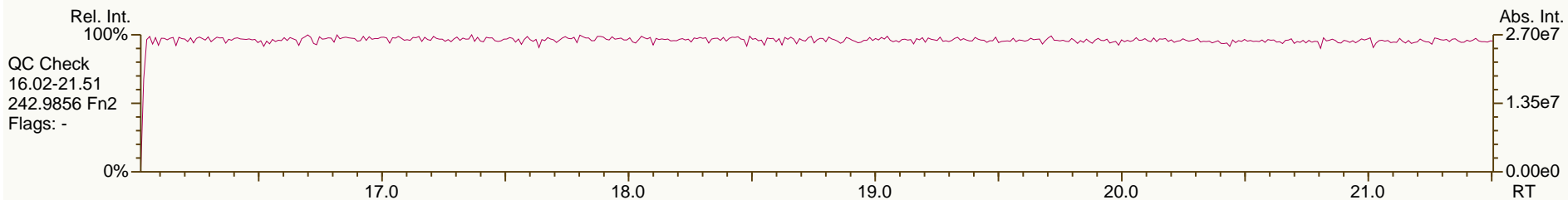
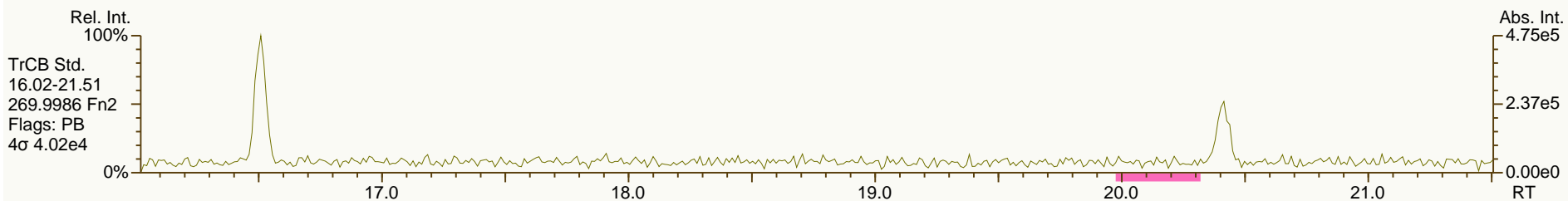
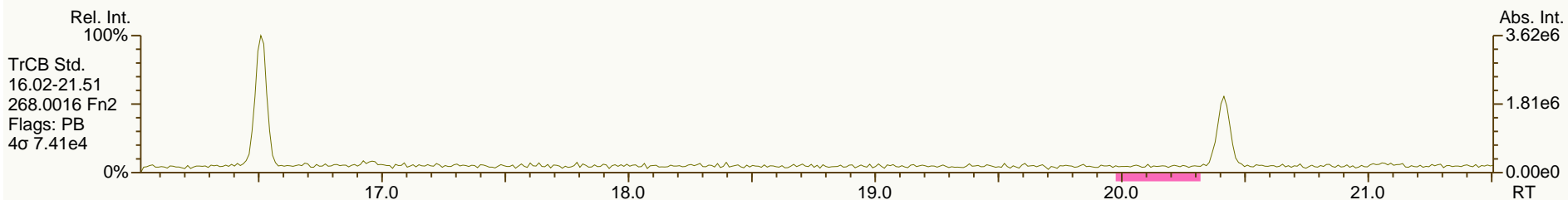
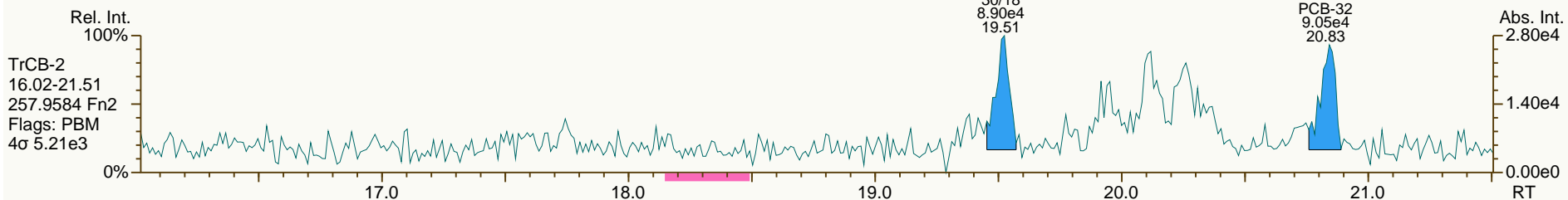
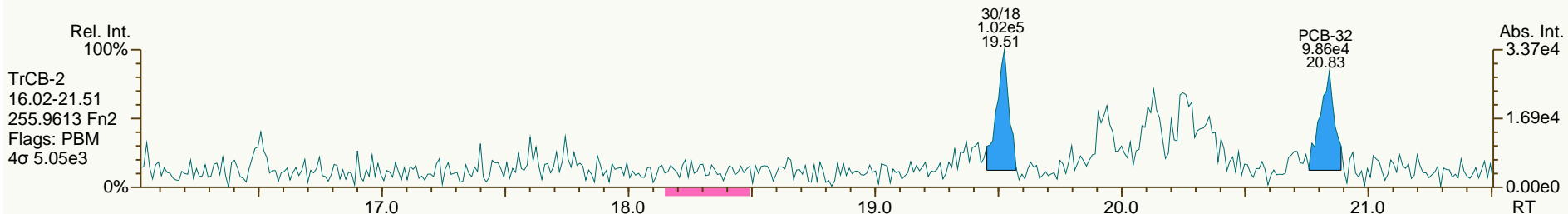
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

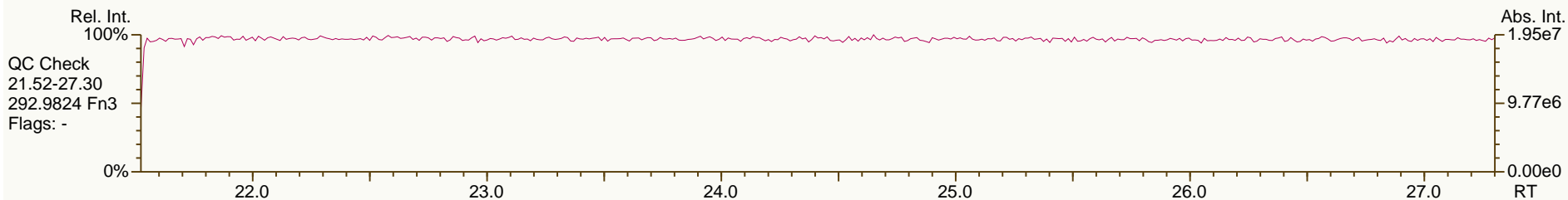
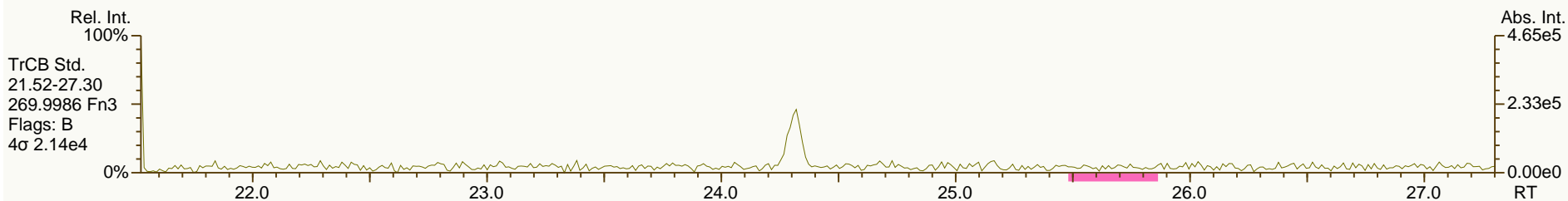
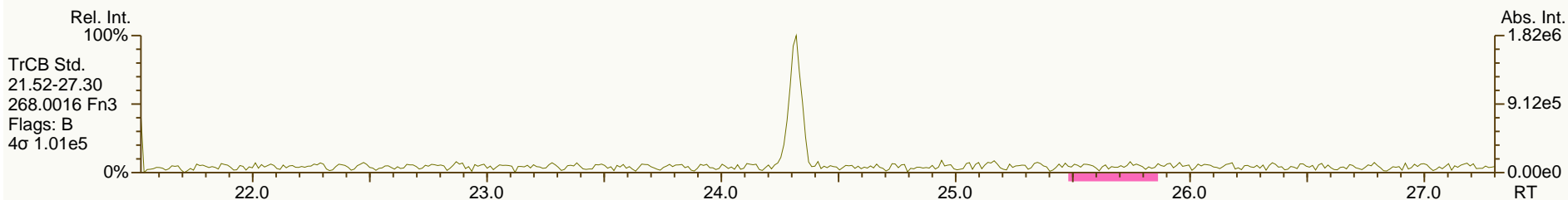
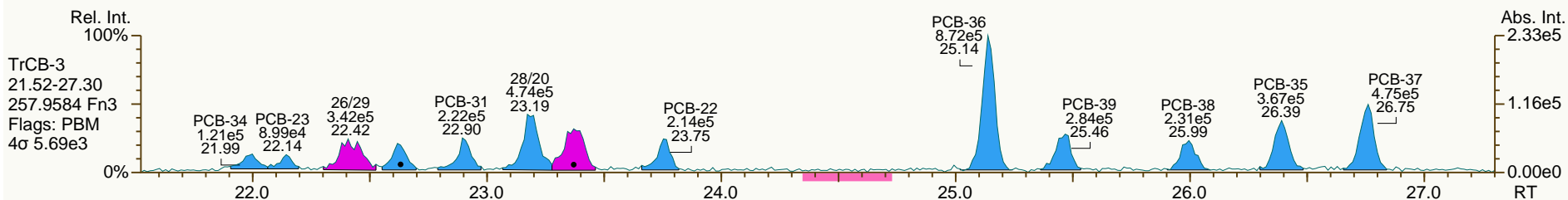
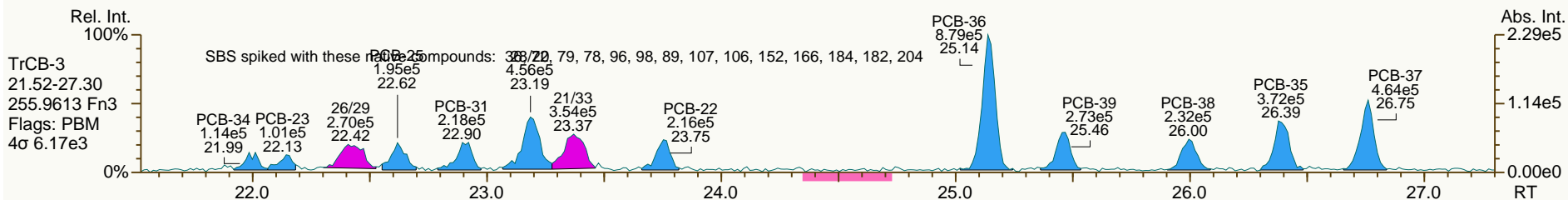
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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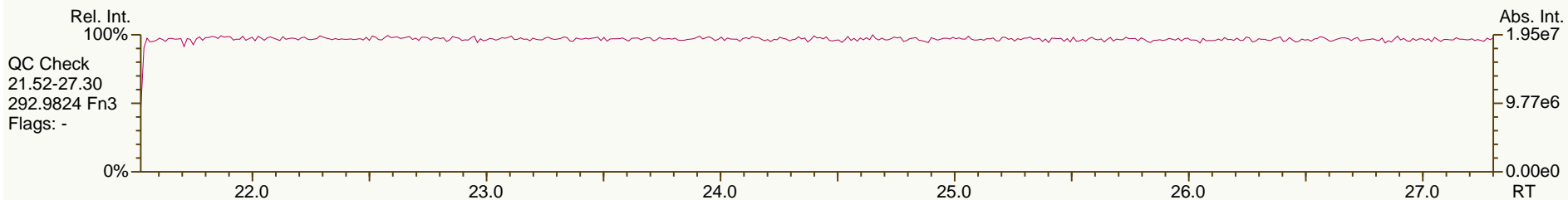
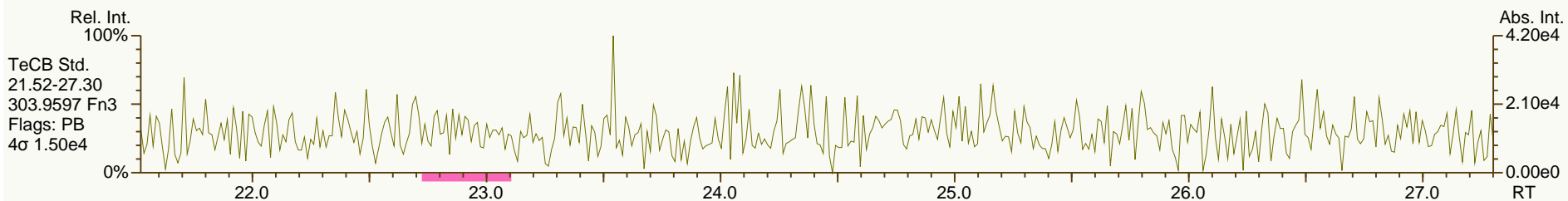
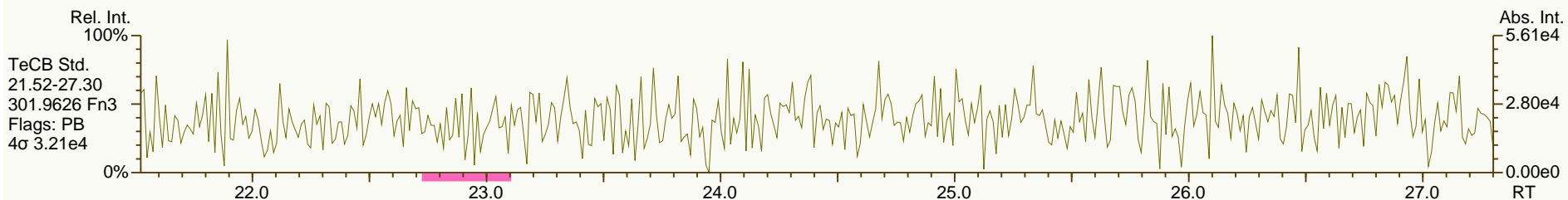
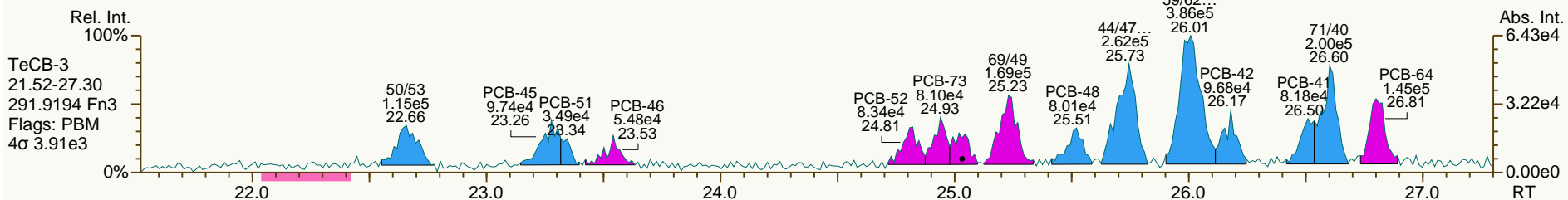
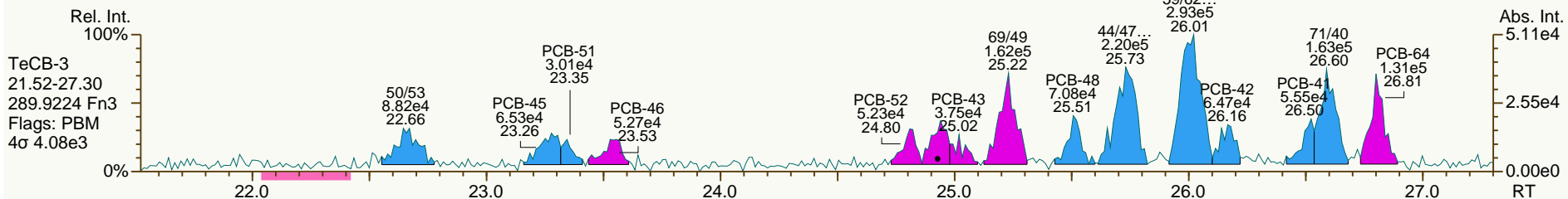




SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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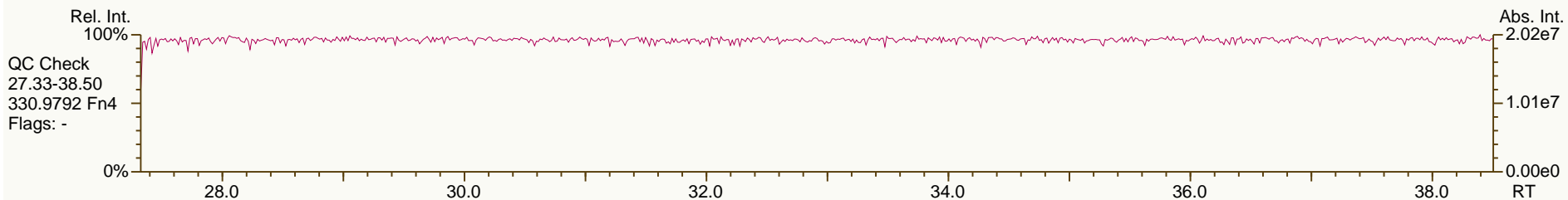
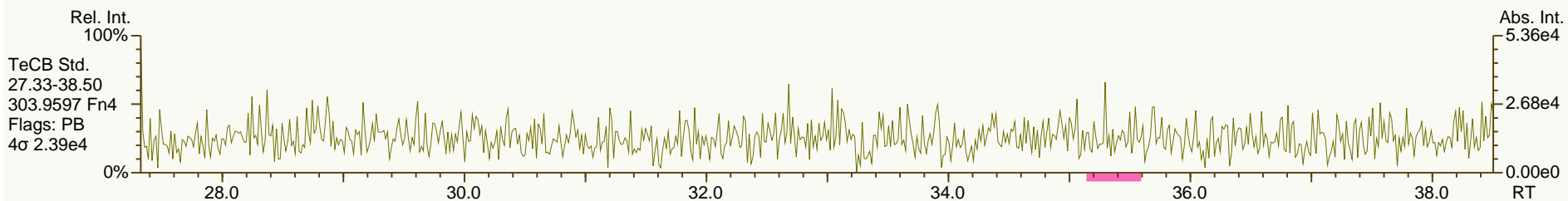
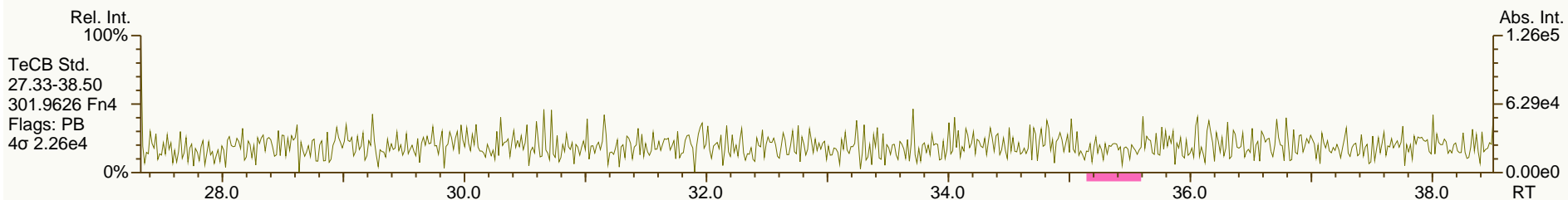
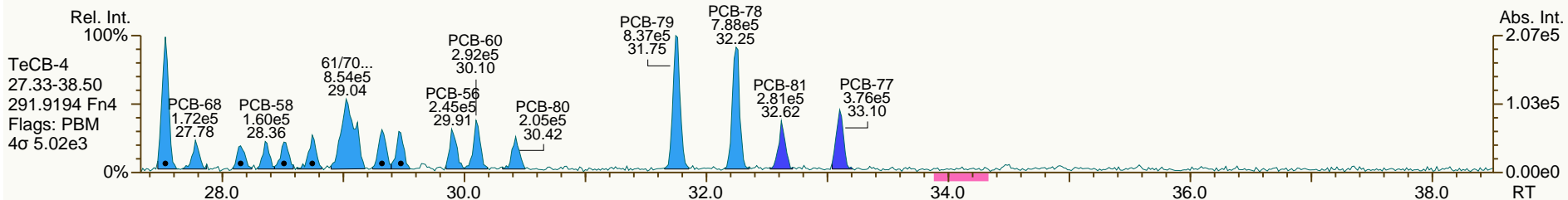
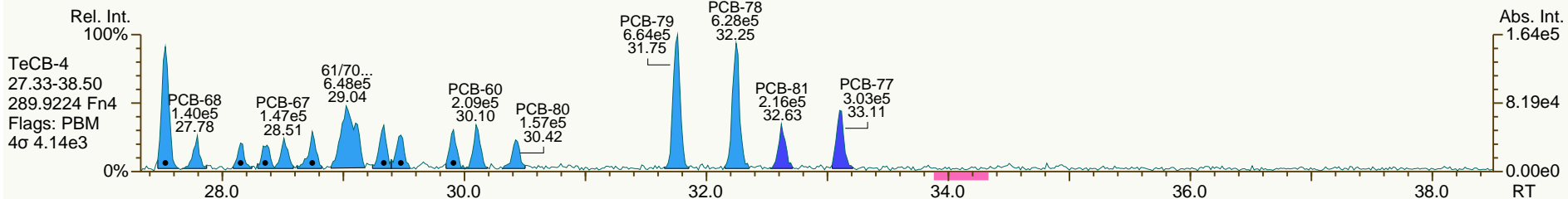
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 21:57:30  
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

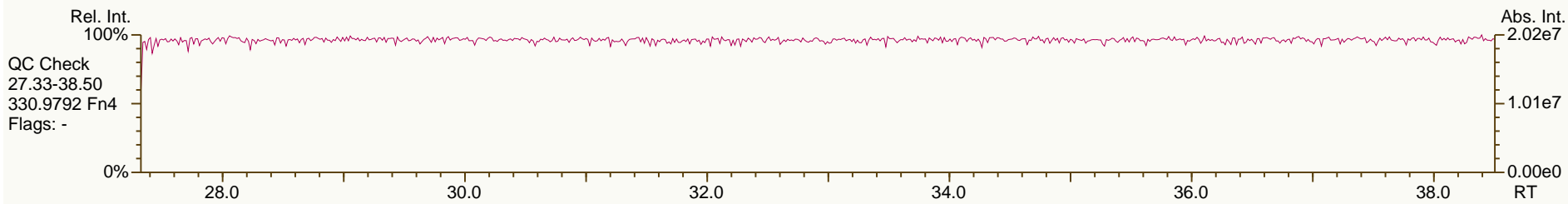
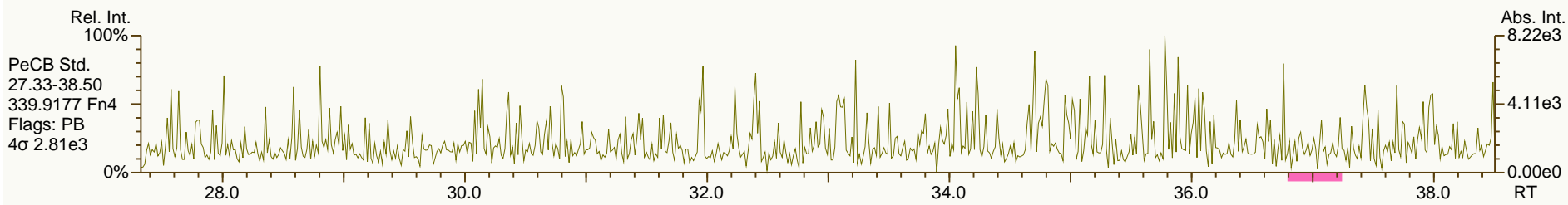
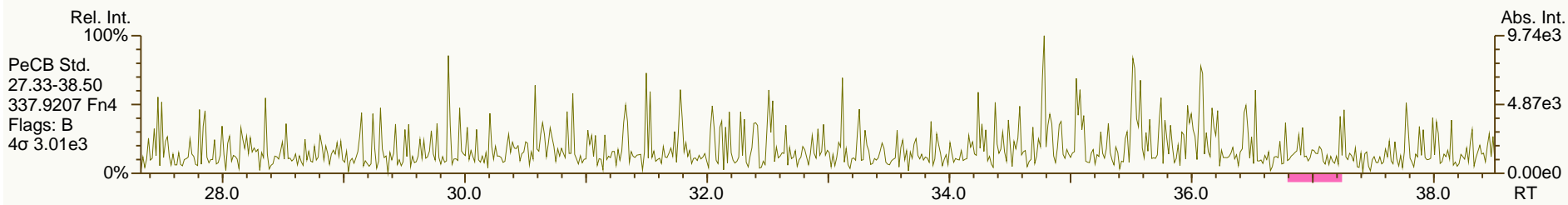
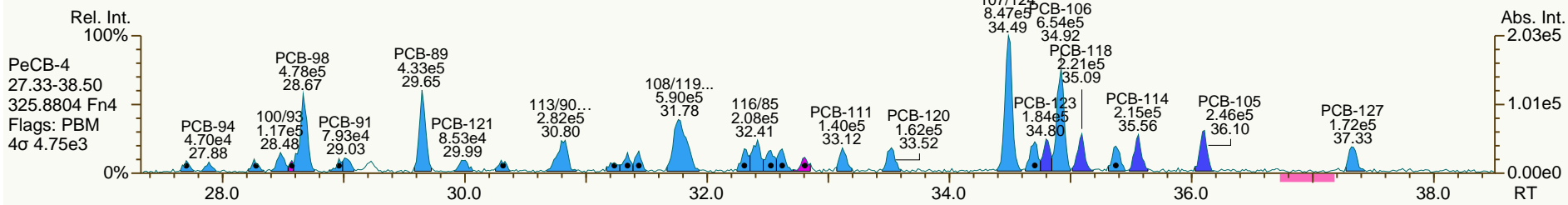
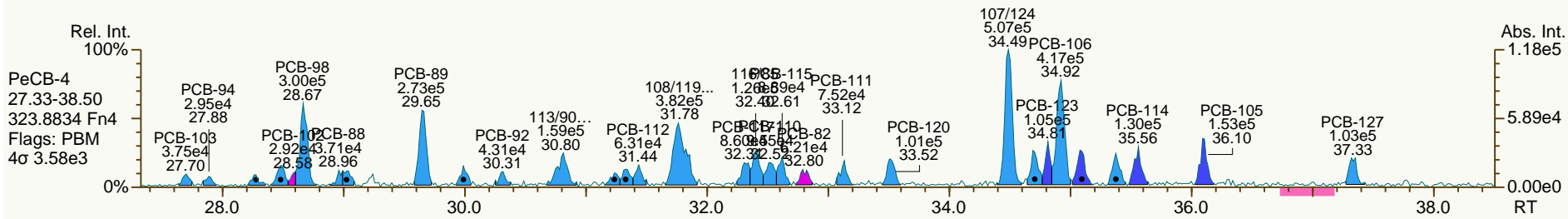
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SGS-AP ID: SBS\_131220\_PCB\_XC  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

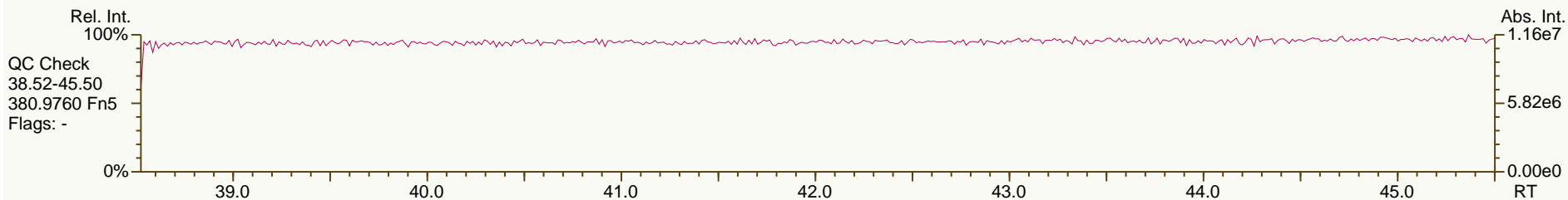
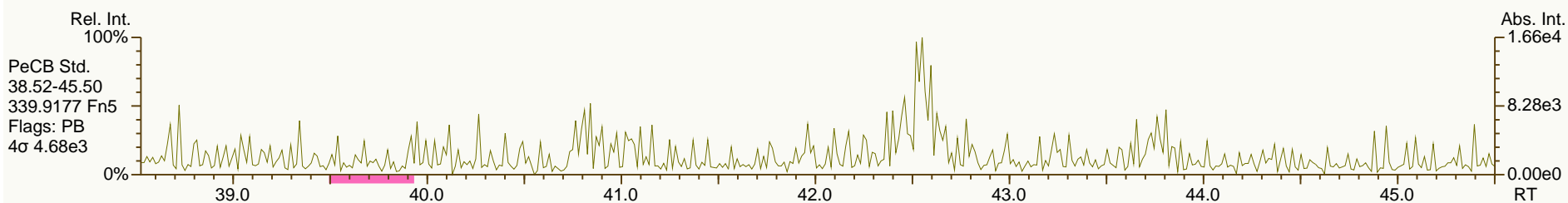
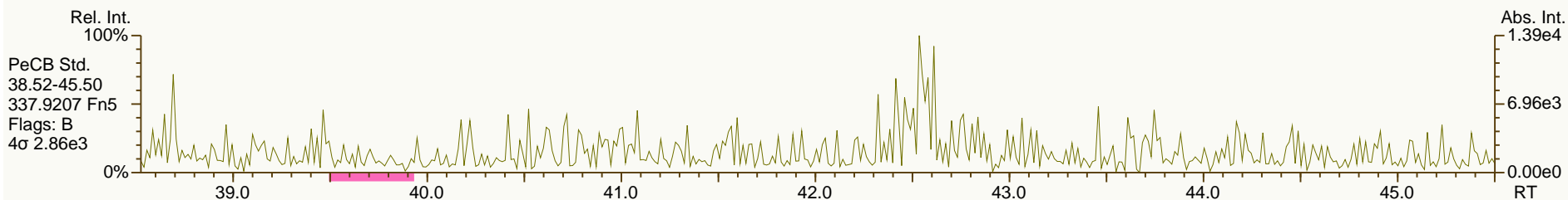
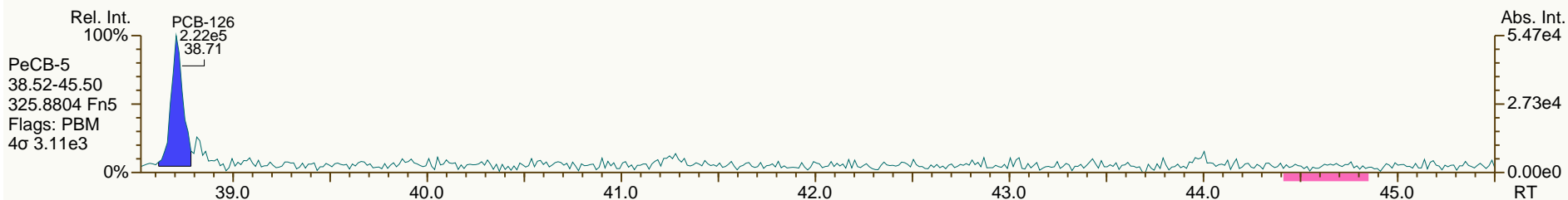
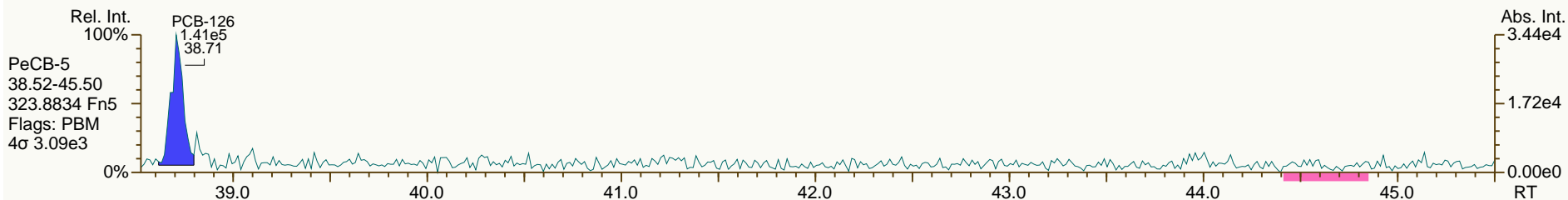
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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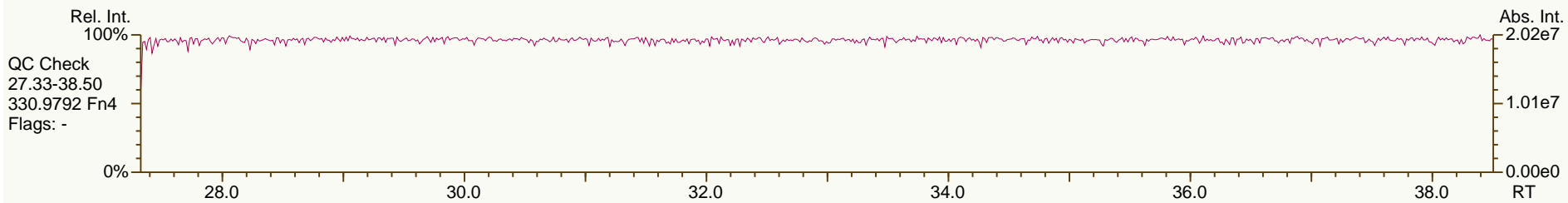
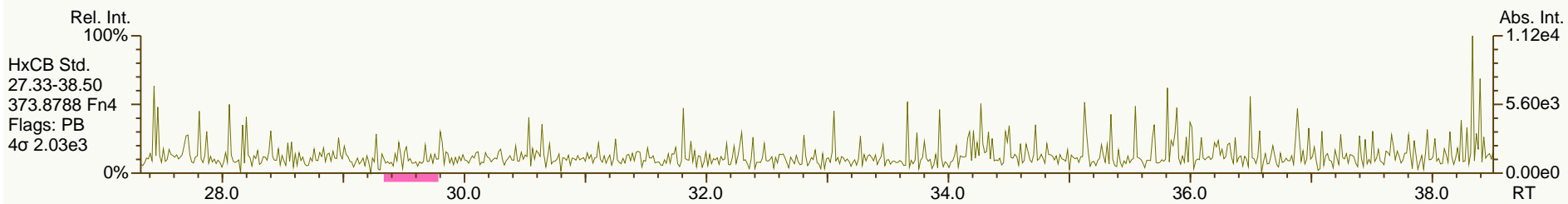
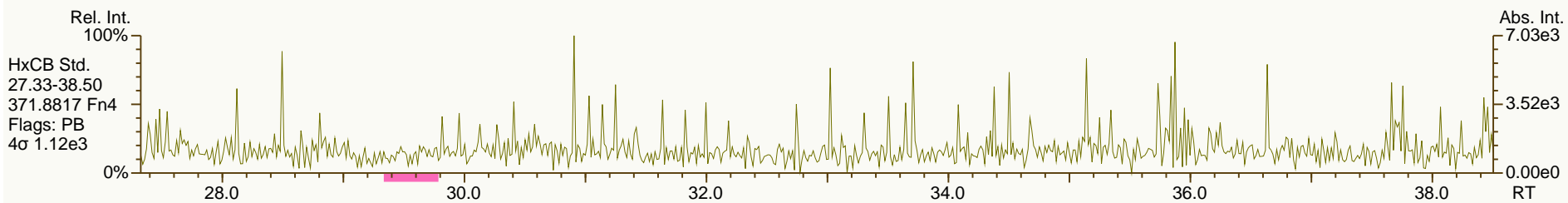
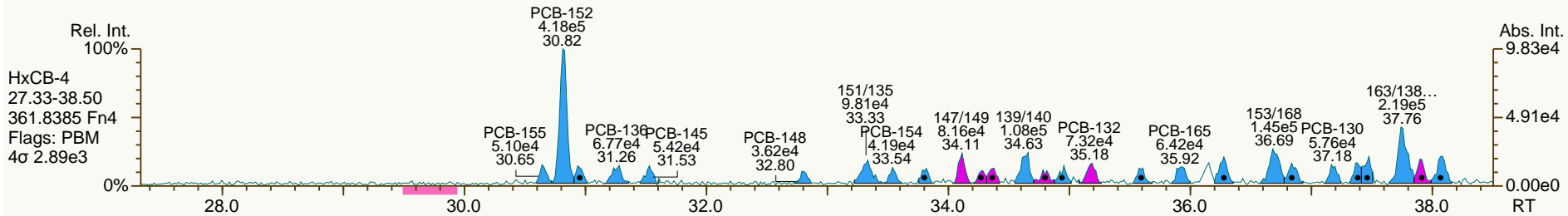
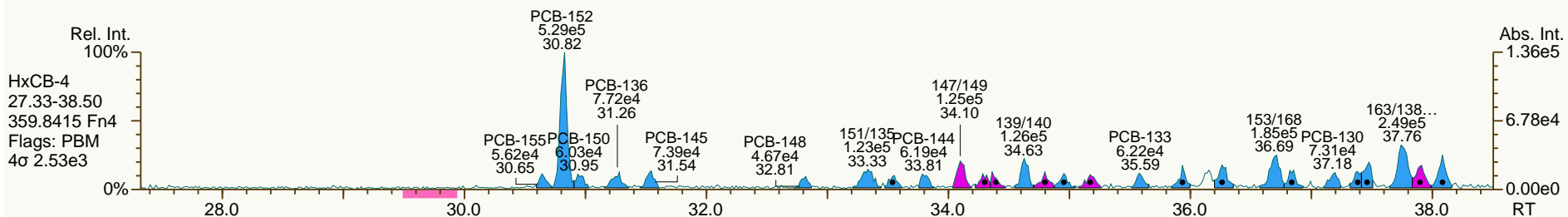
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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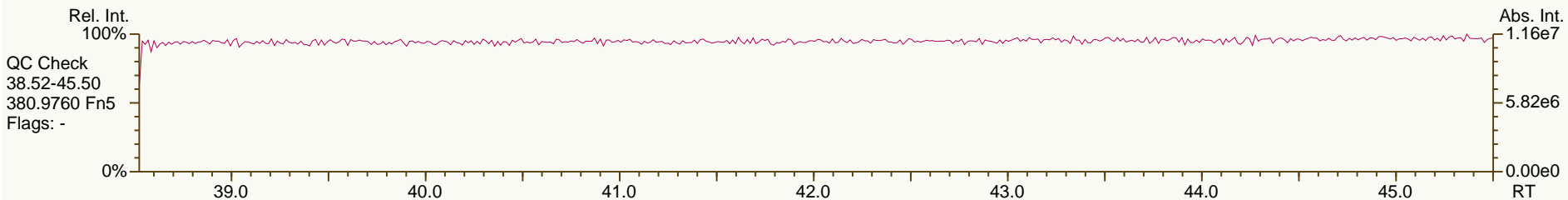
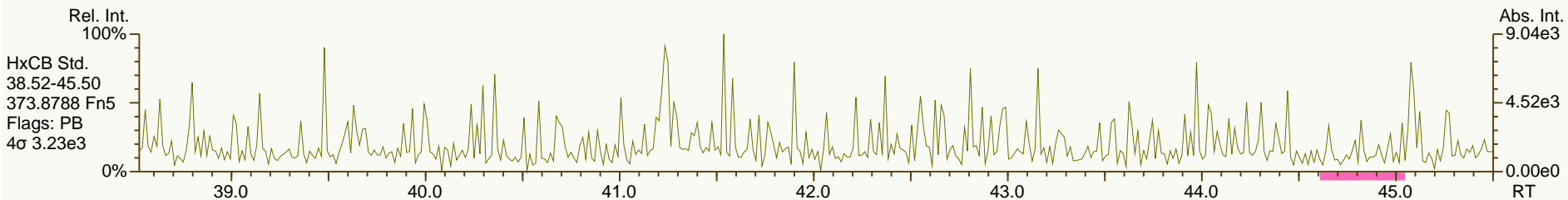
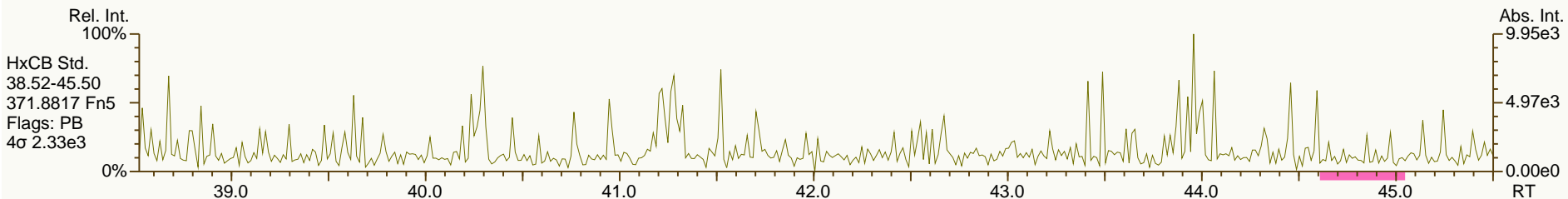
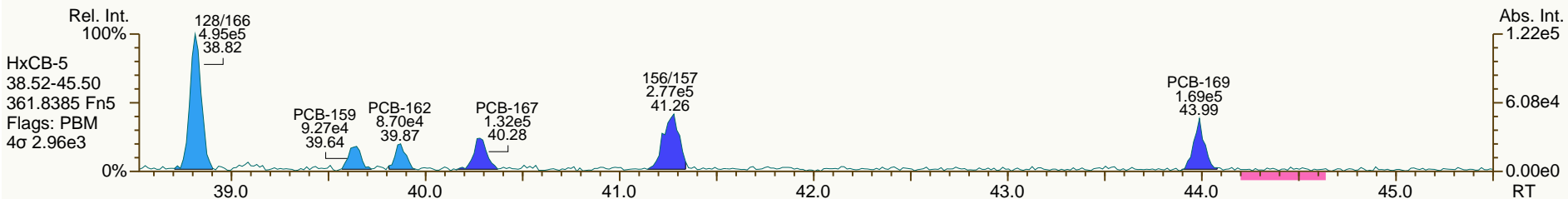
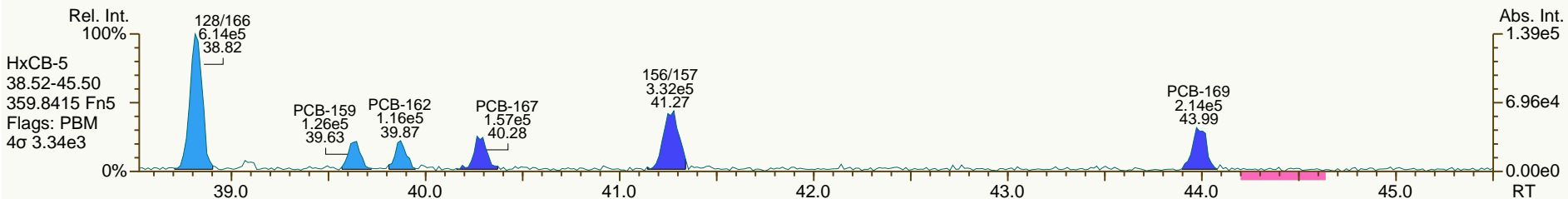
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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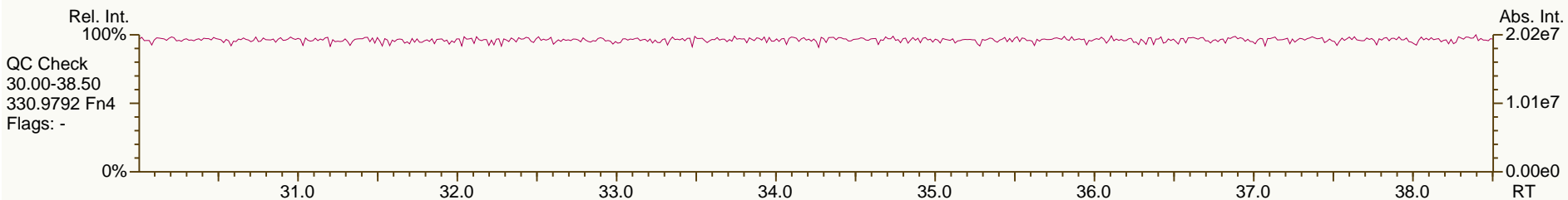
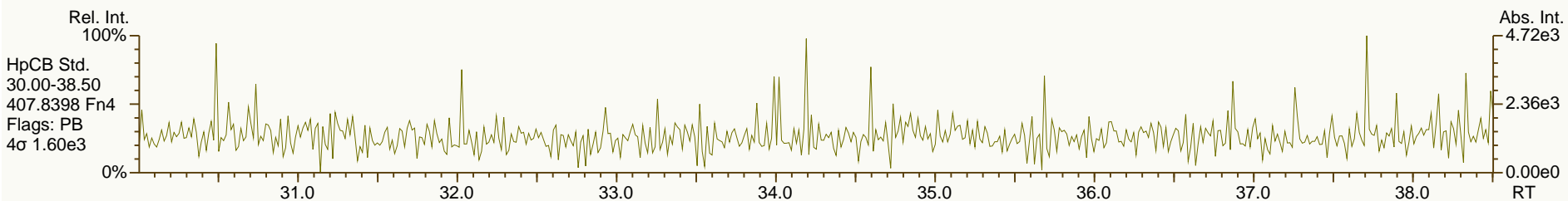
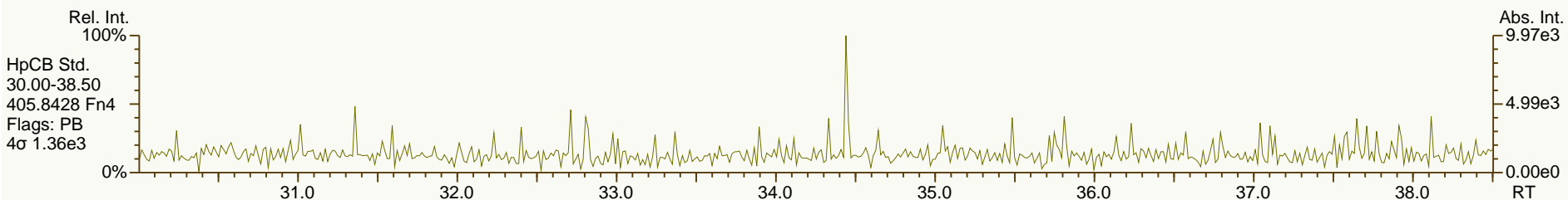
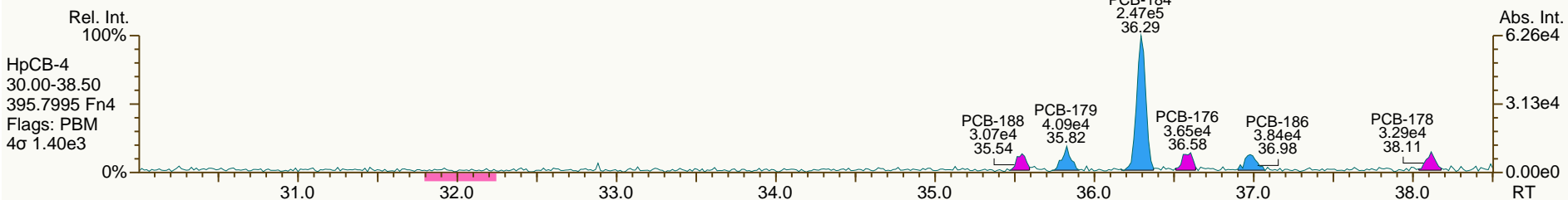
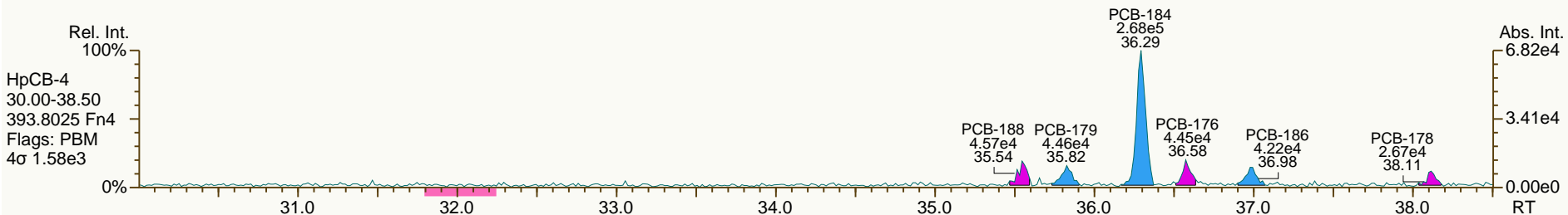
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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Sample ID: SIL 9-42-1  
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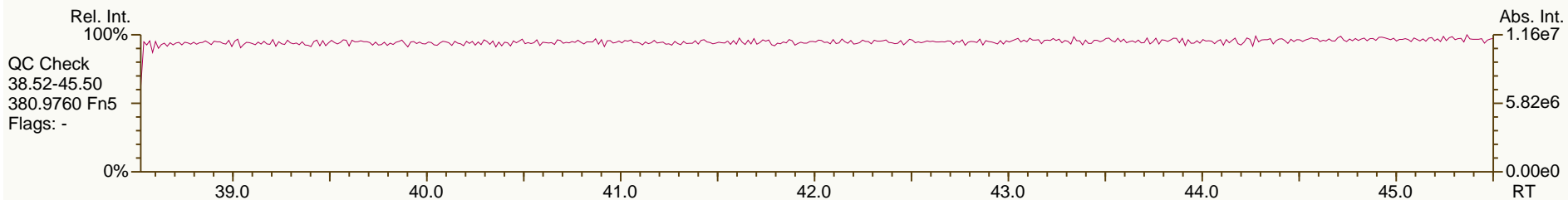
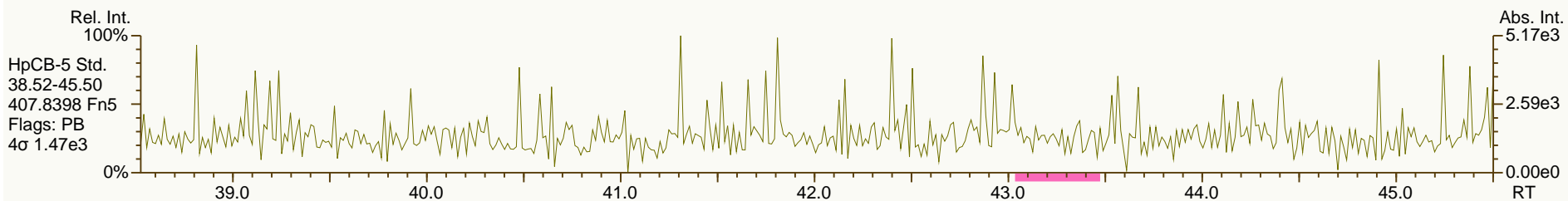
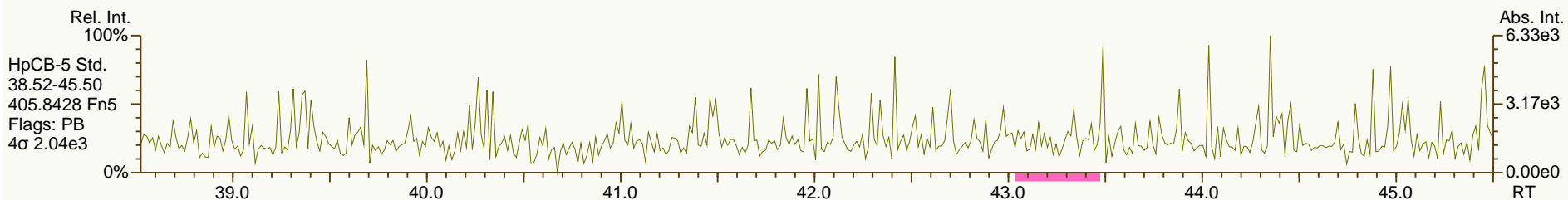
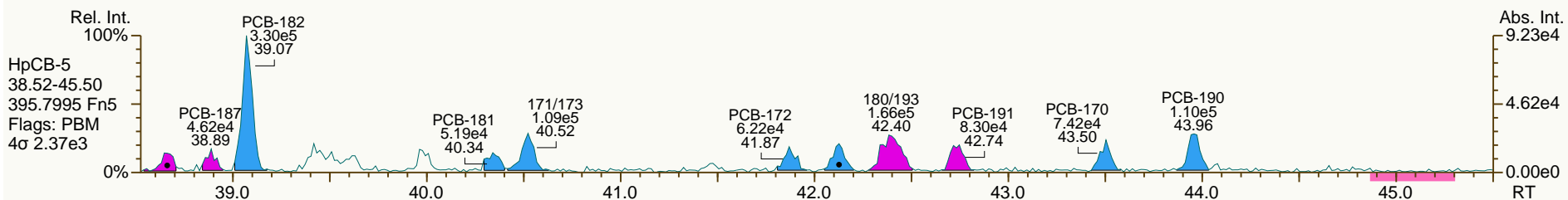
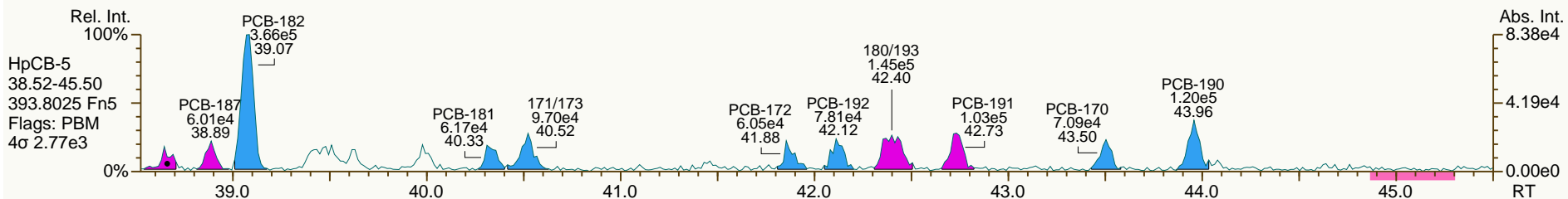




SGS-AP ID: SBS\_131220\_PCB\_XC  
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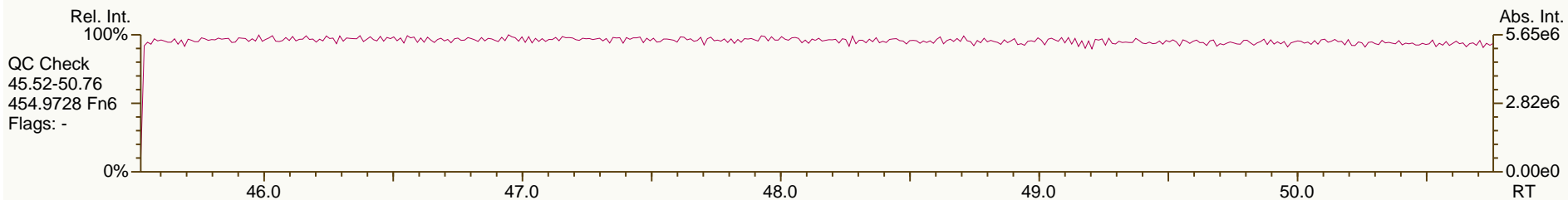
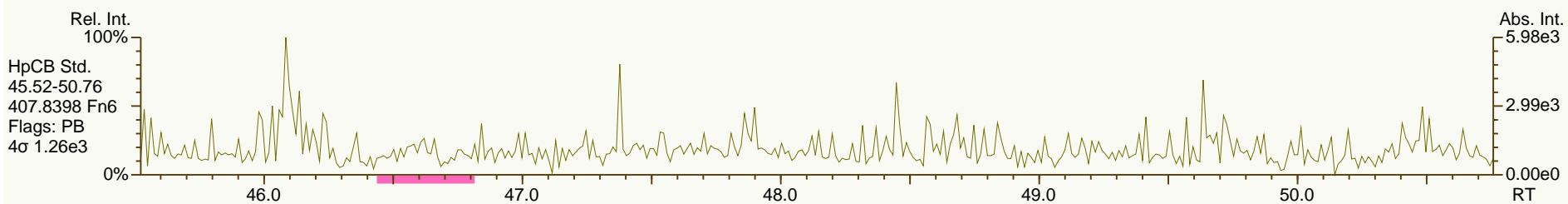
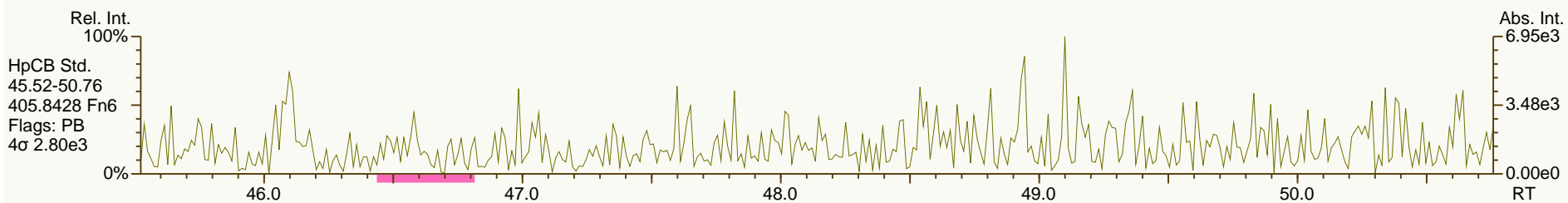
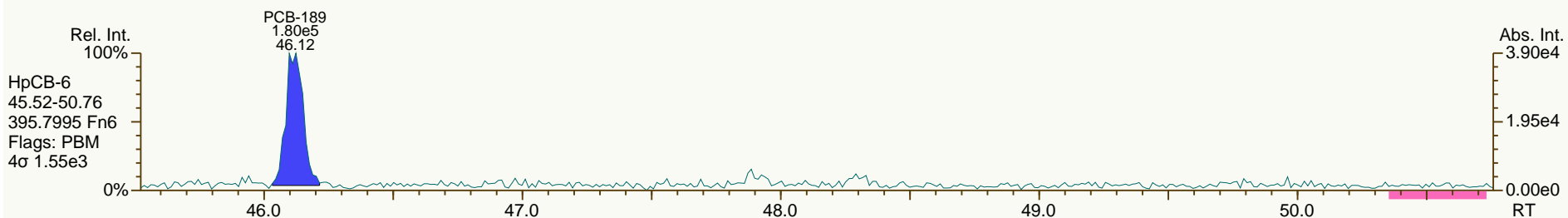
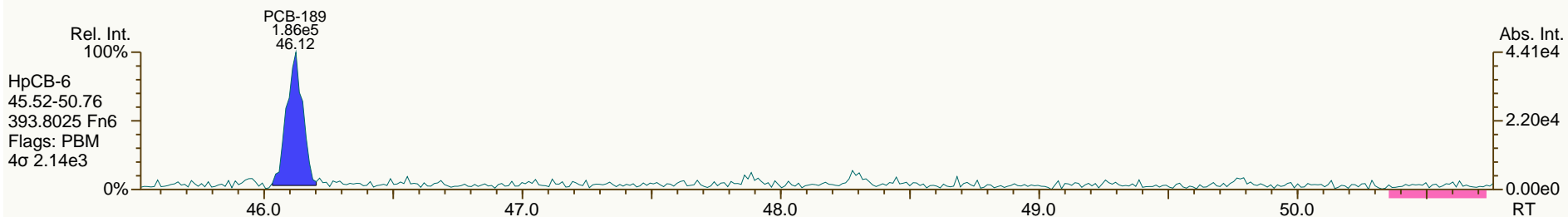
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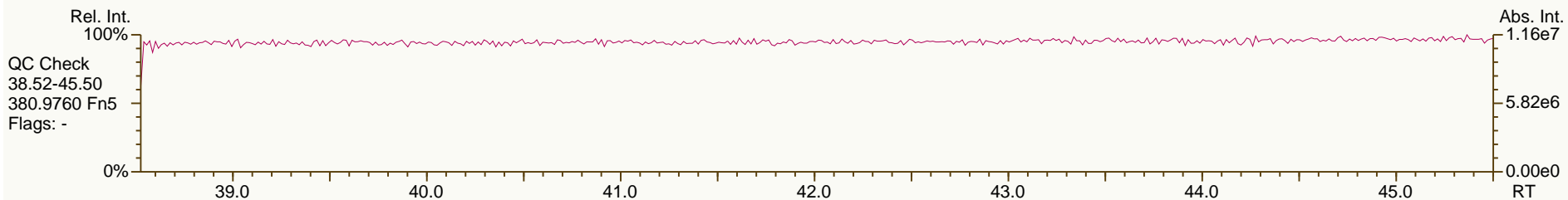
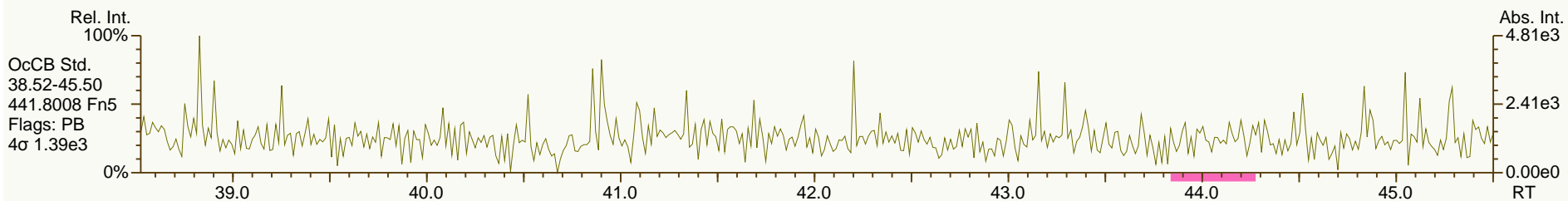
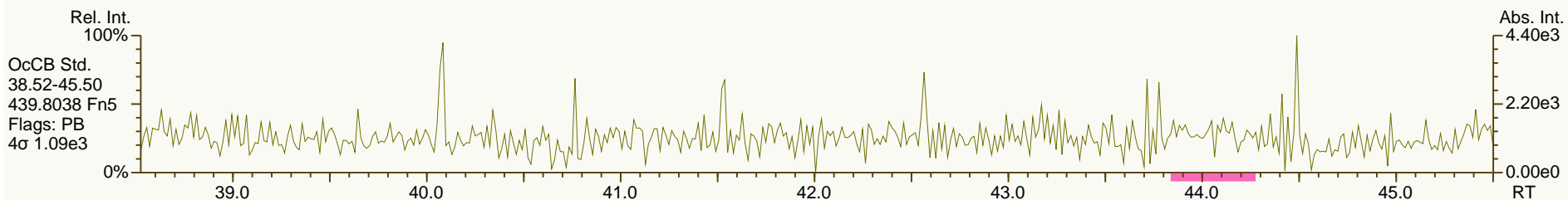
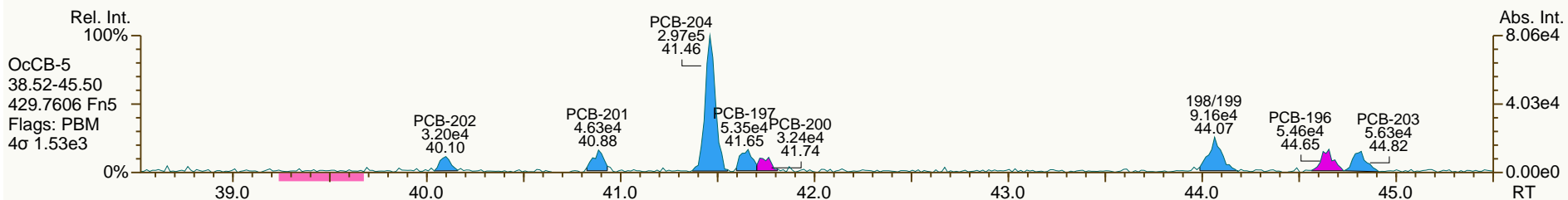
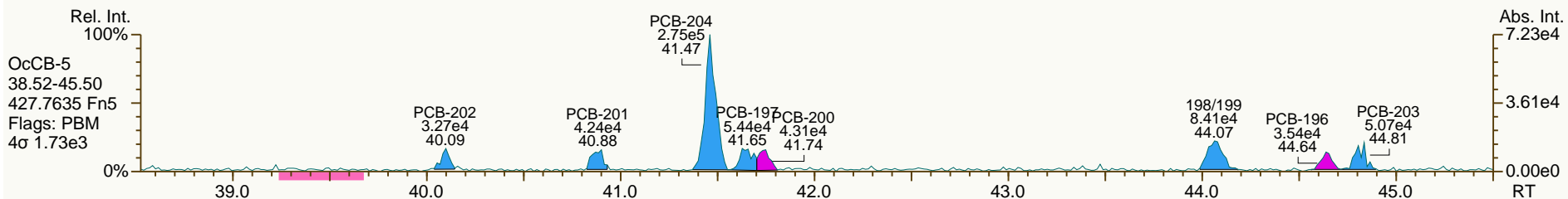
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SGS-AP ID: SBS\_131220\_PCB\_XC  
 Instr: AutoSpec-Premier MM7

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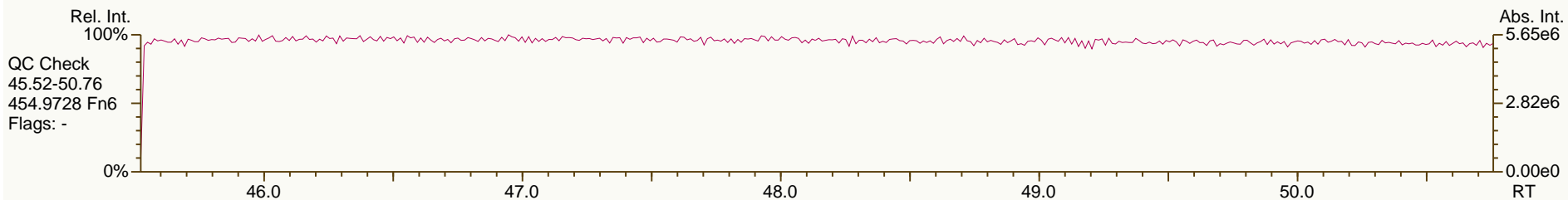
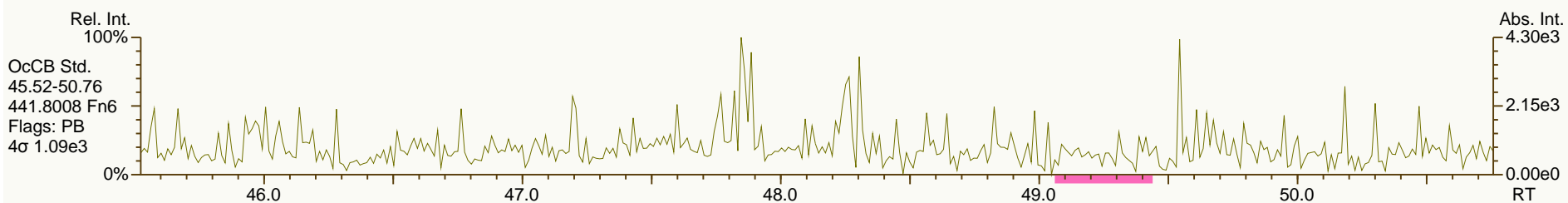
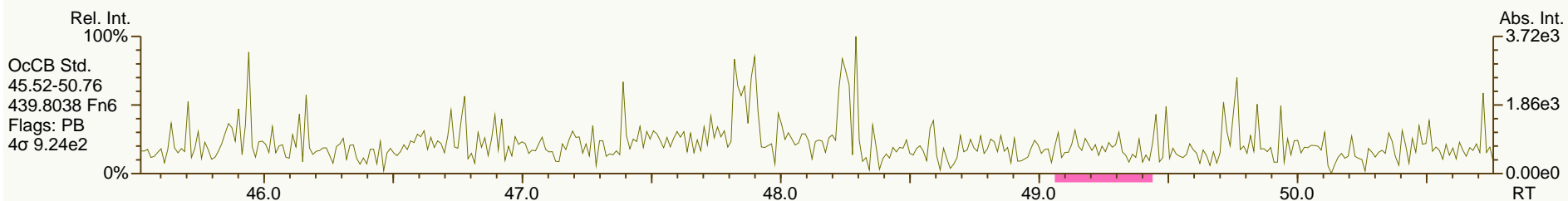
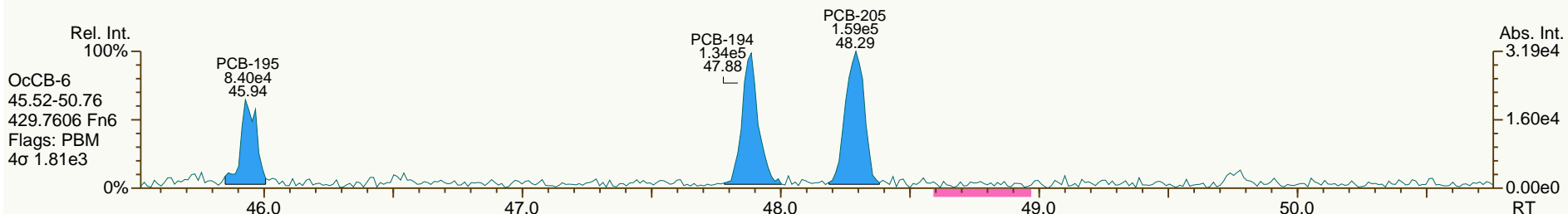
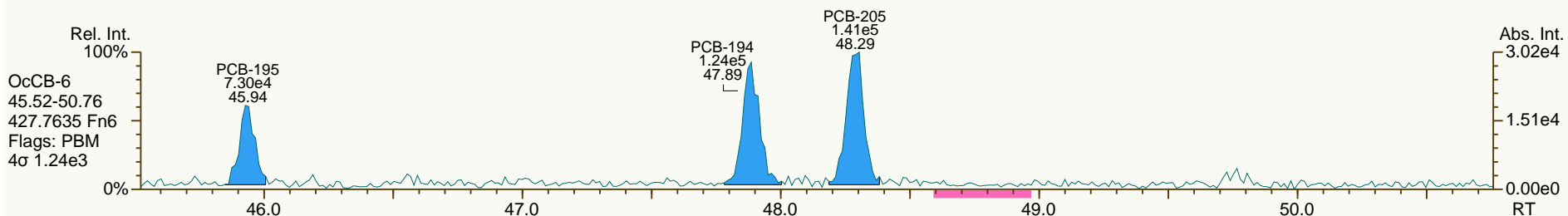
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SGS-AP ID: SBS\_131220\_PCB\_XC  
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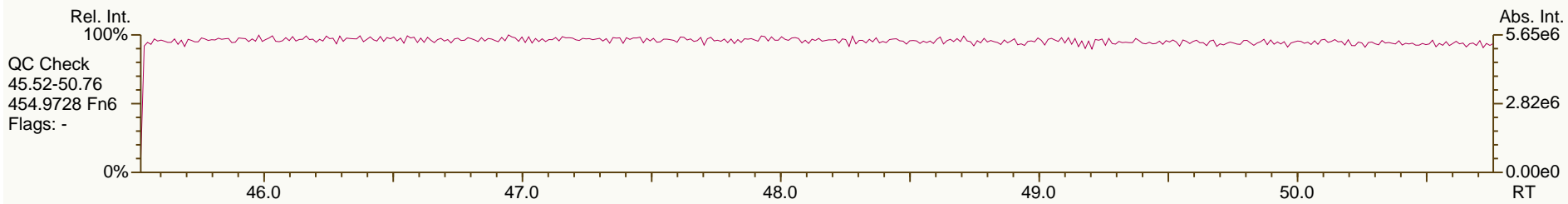
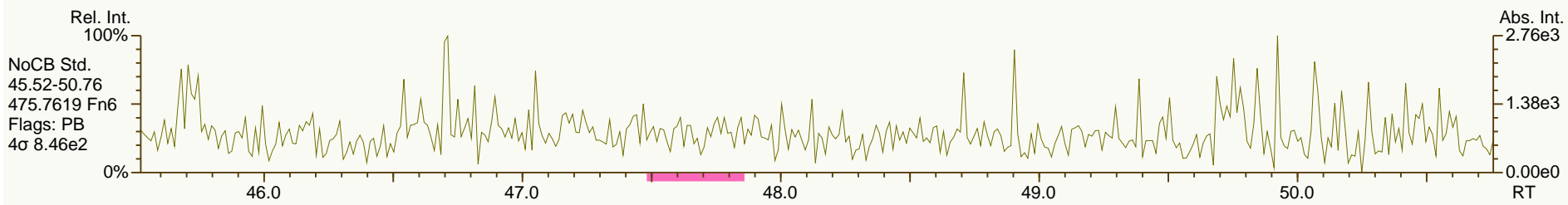
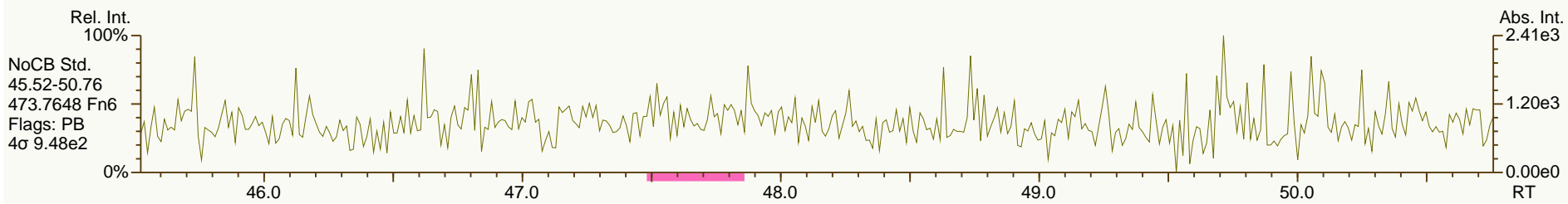
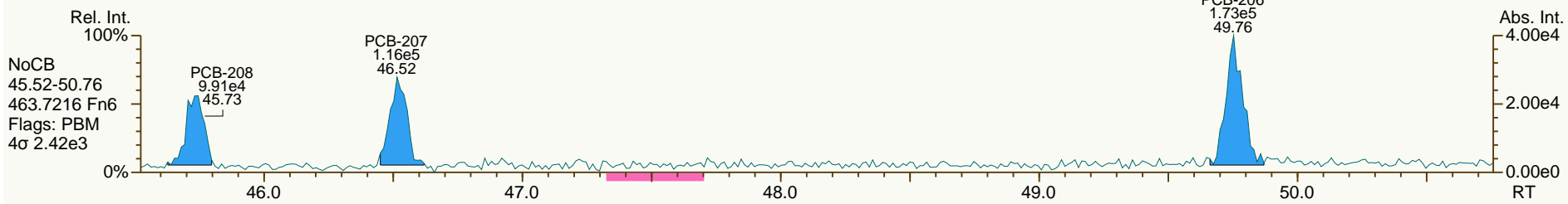
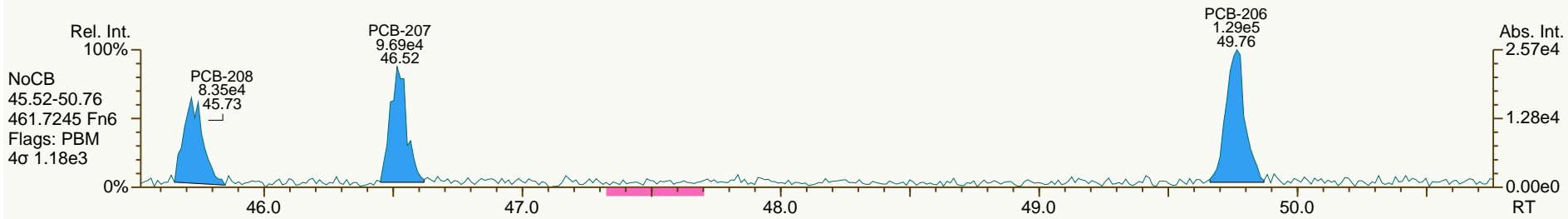
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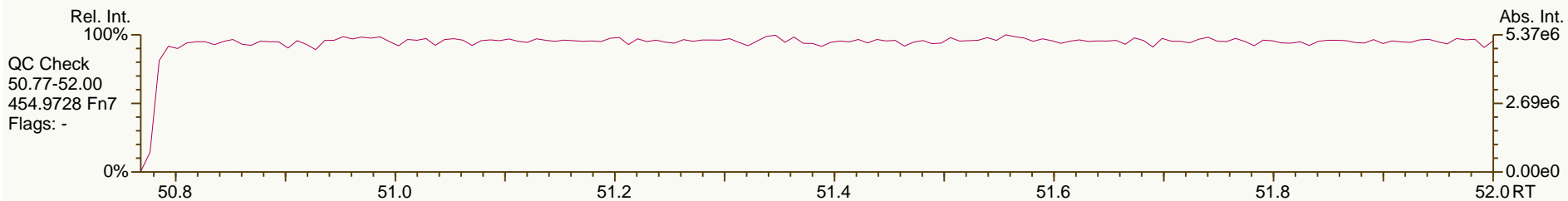
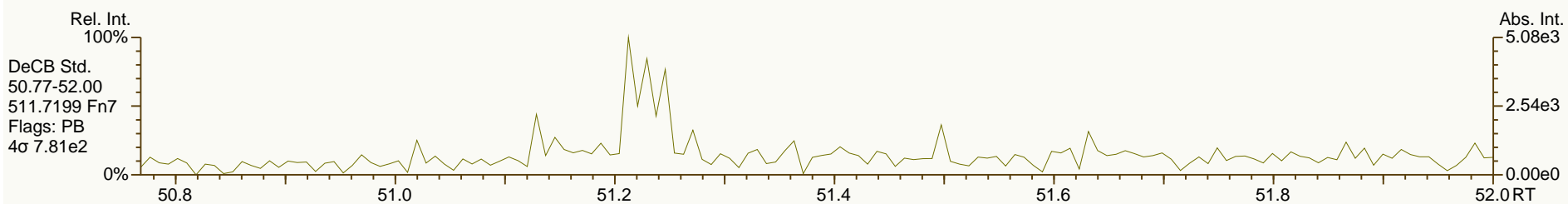
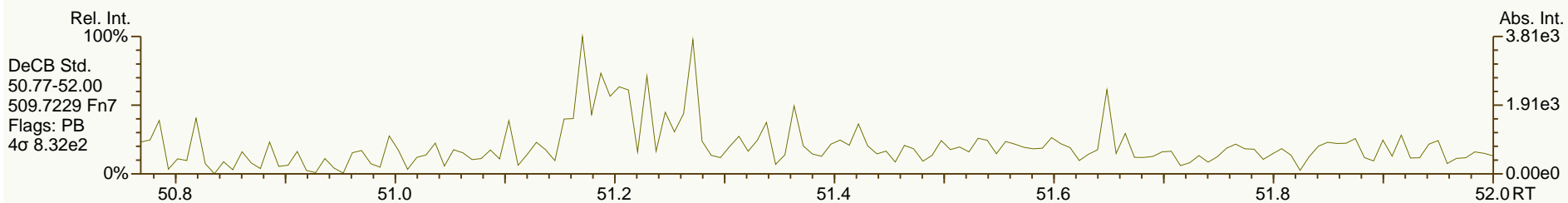
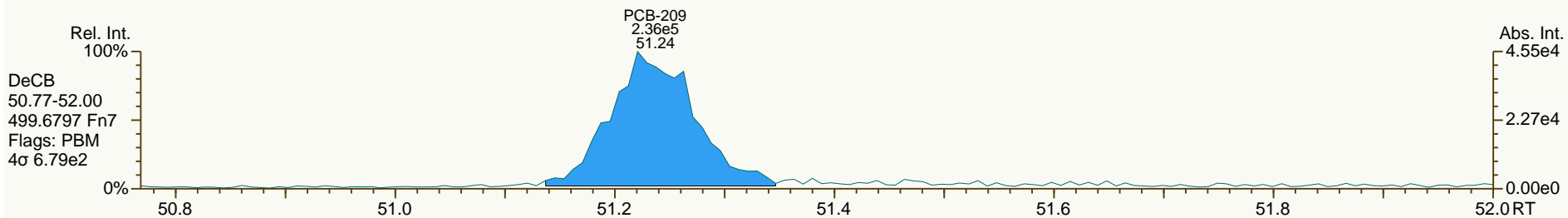
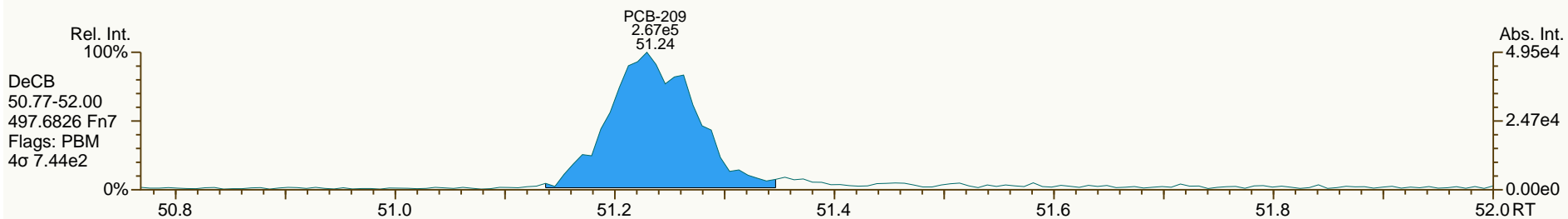
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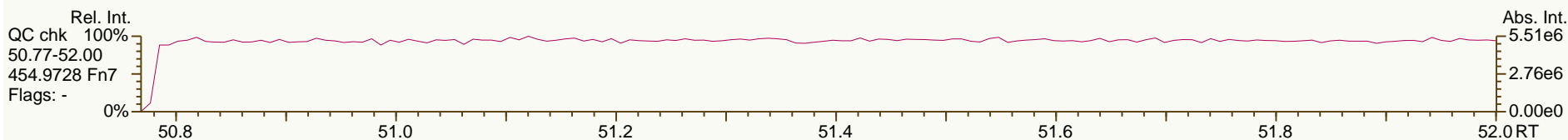
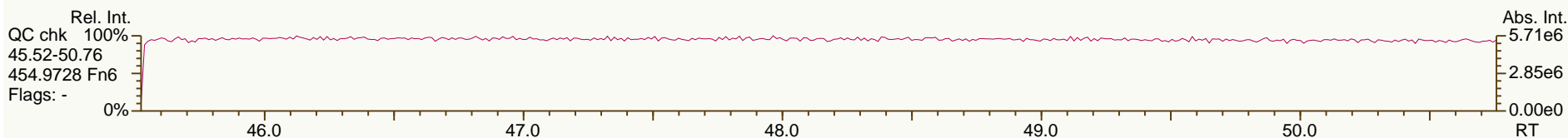
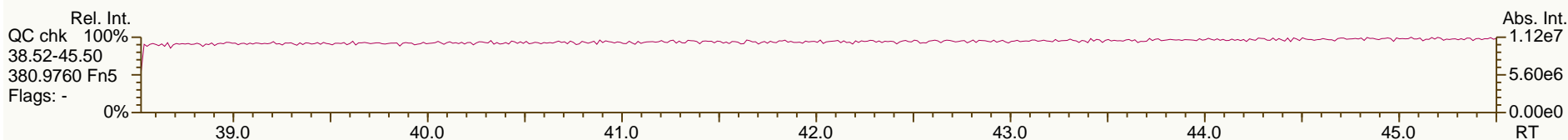
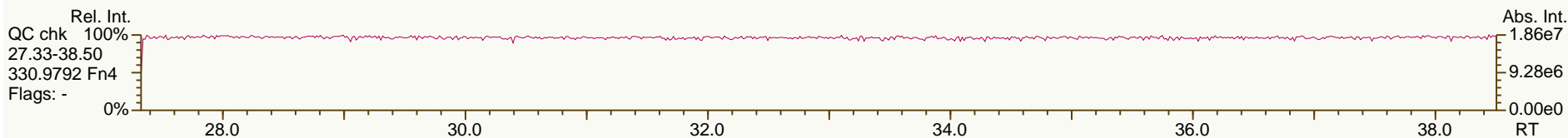
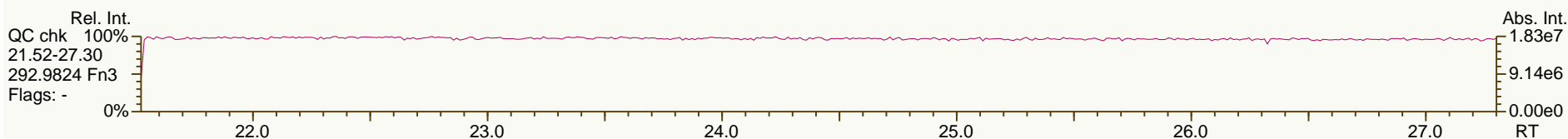
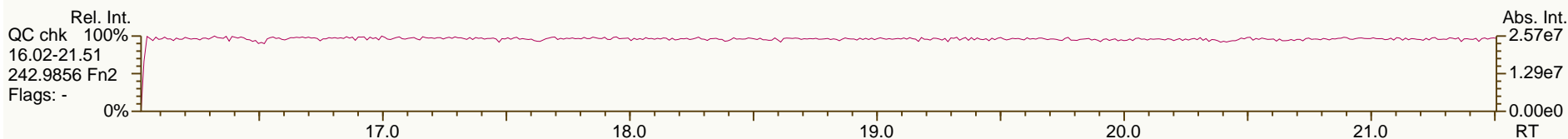
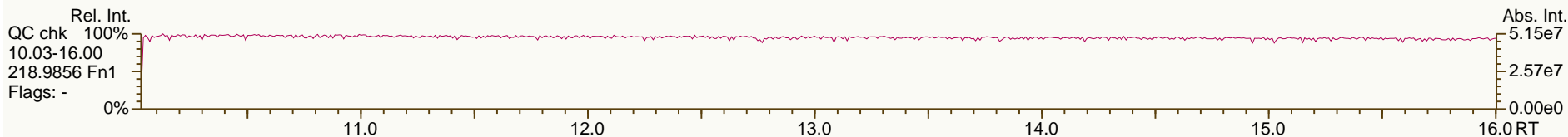
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

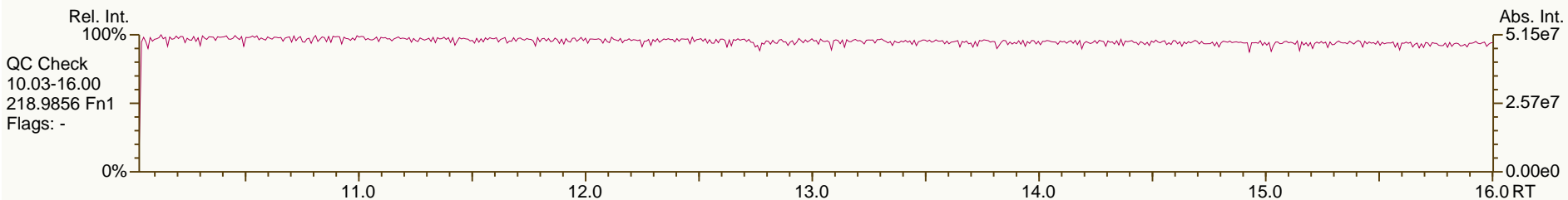
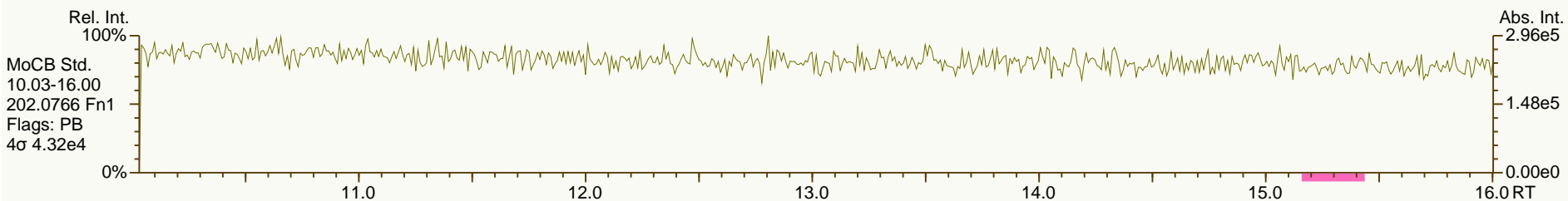
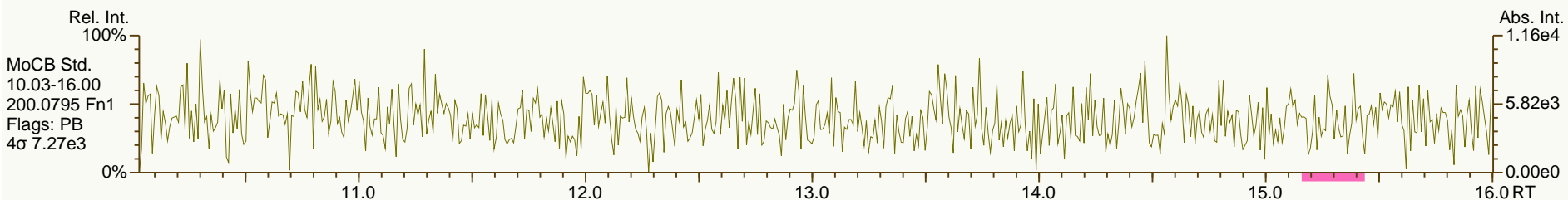
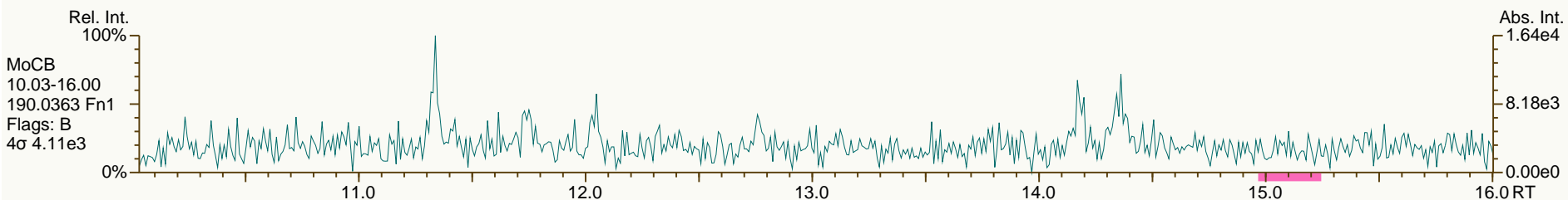
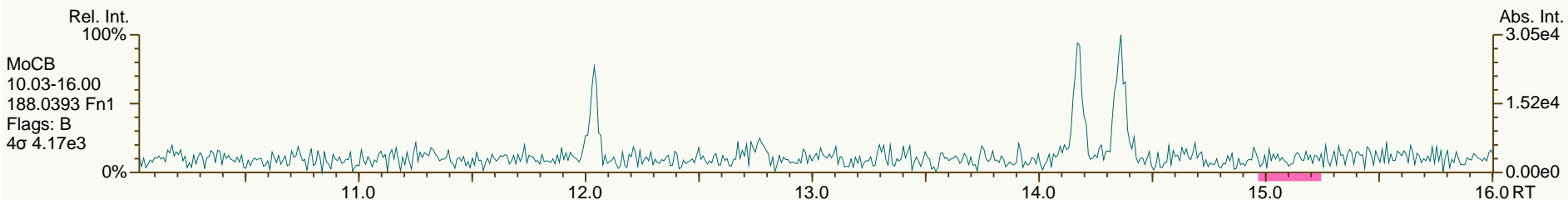
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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Acq: 20-Dec-2013 22:52:16  
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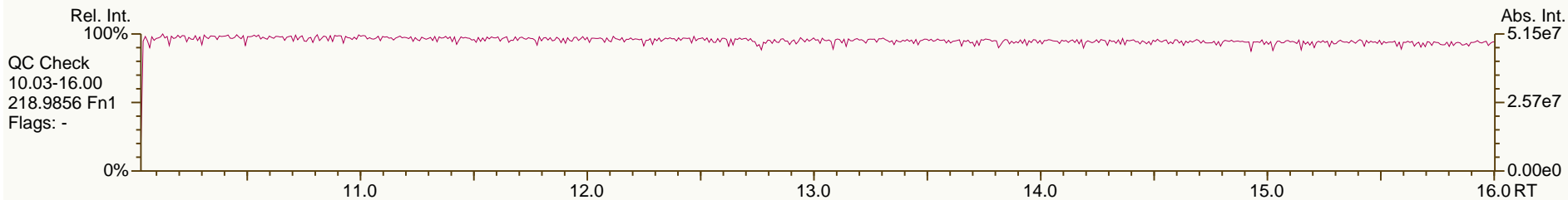
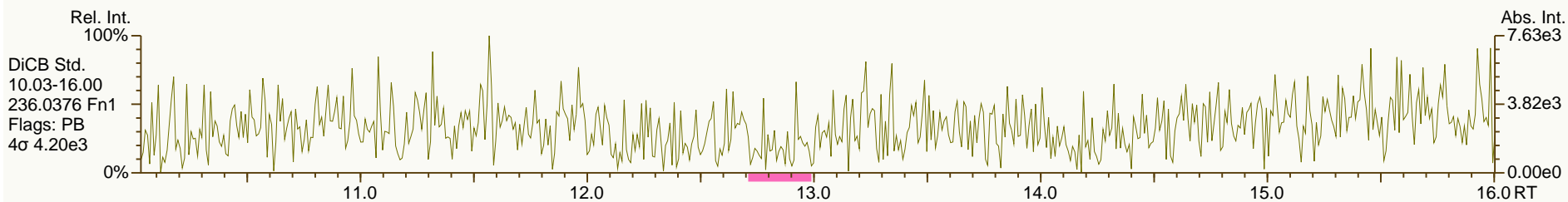
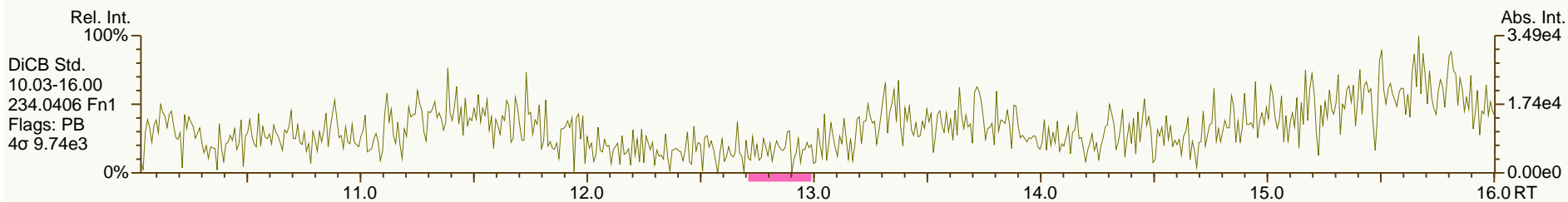
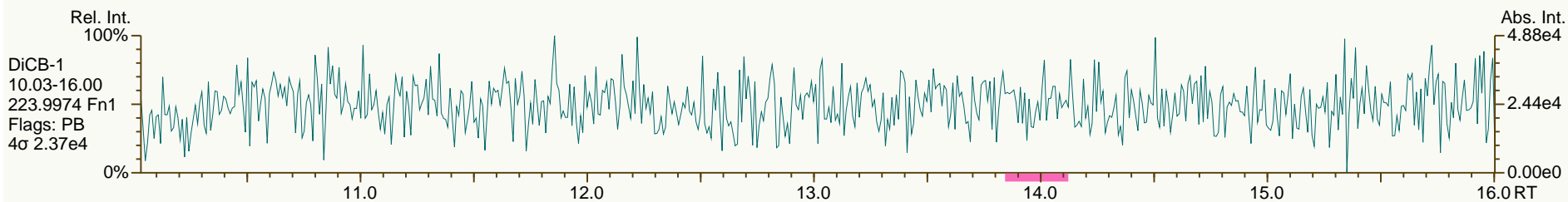
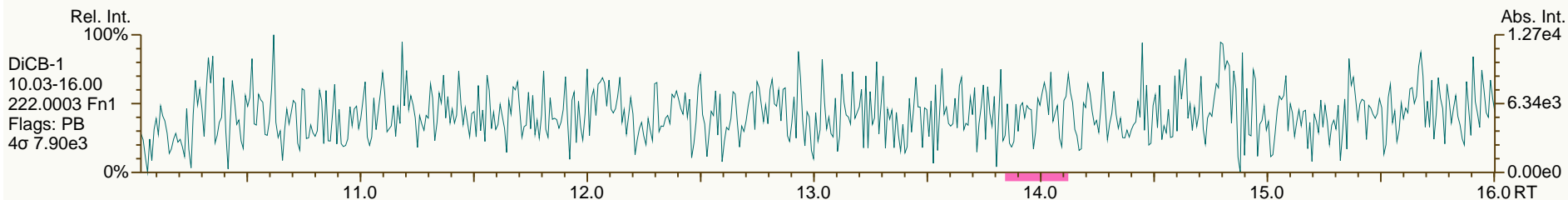




SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

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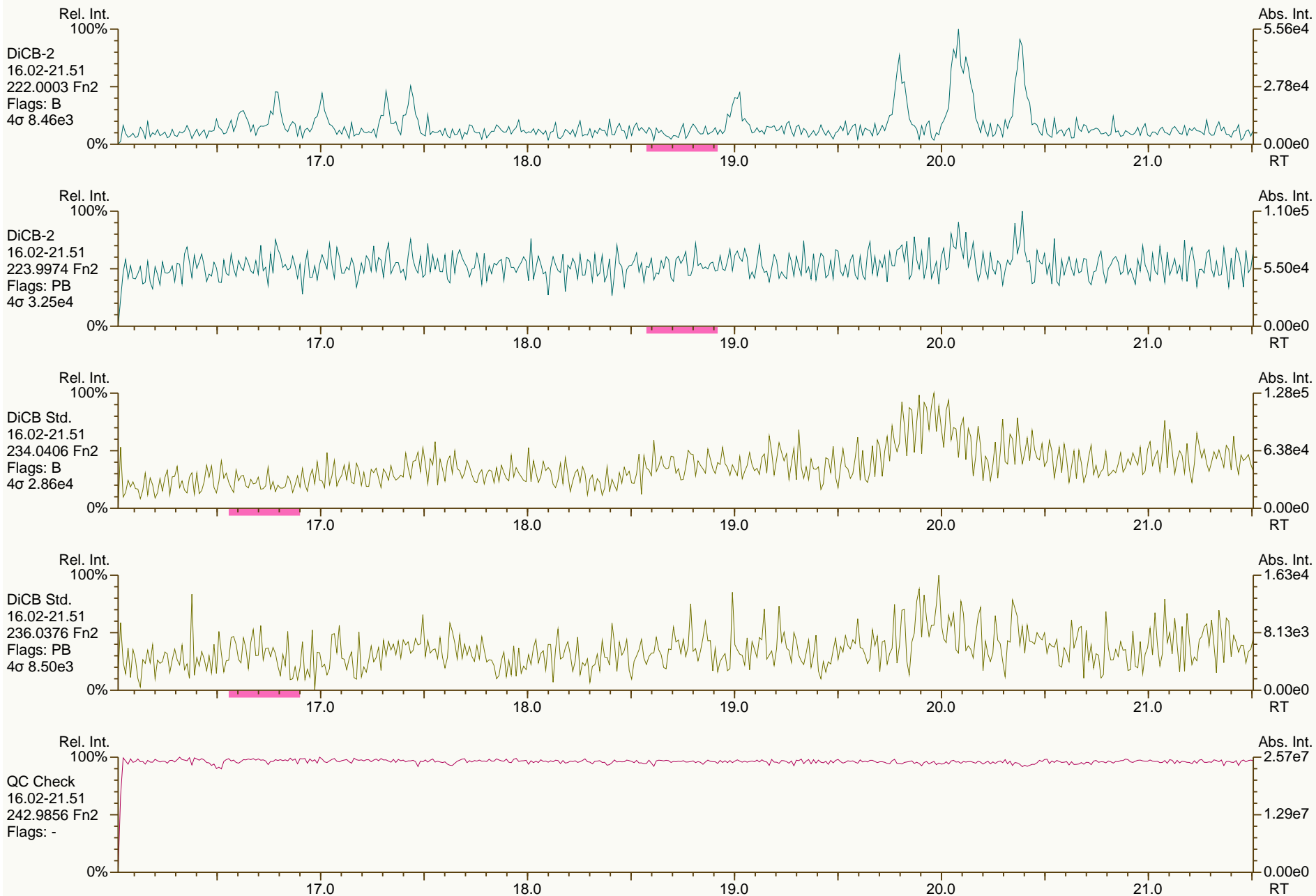
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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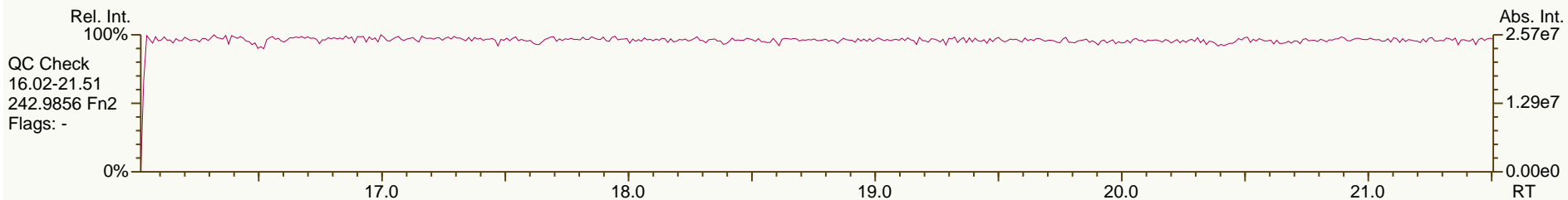
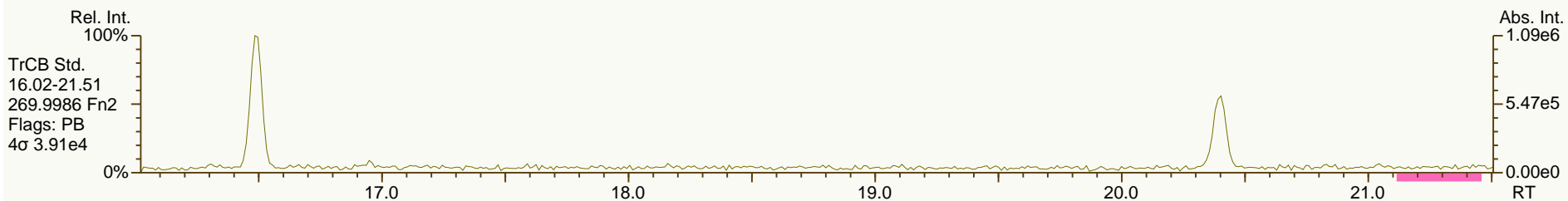
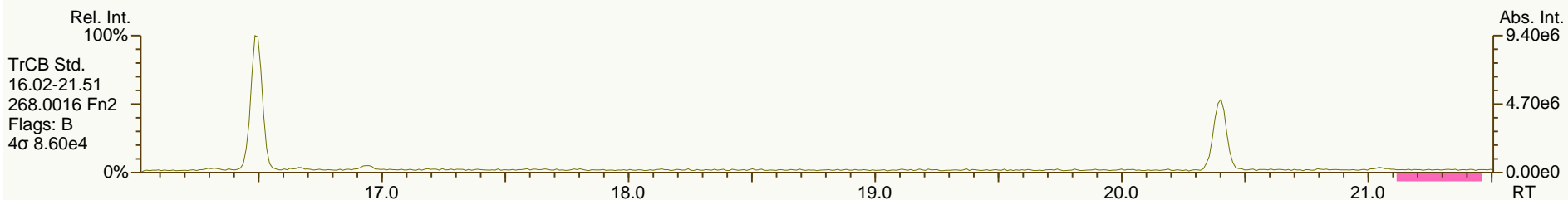
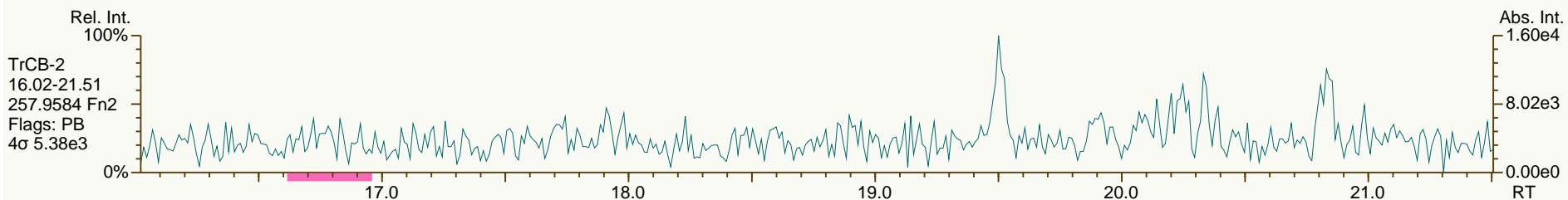
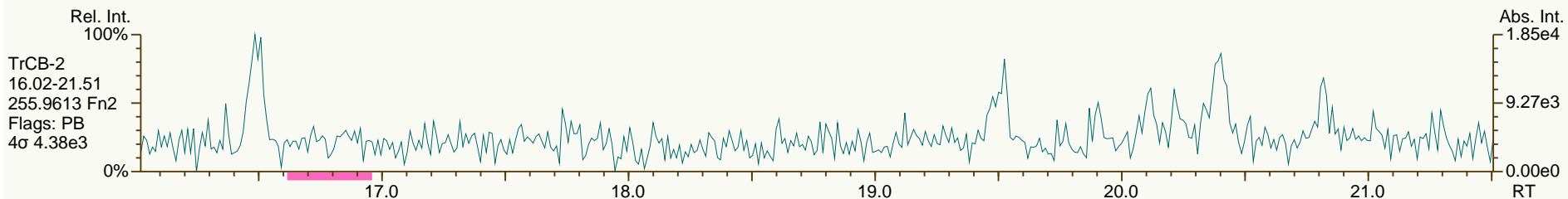
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

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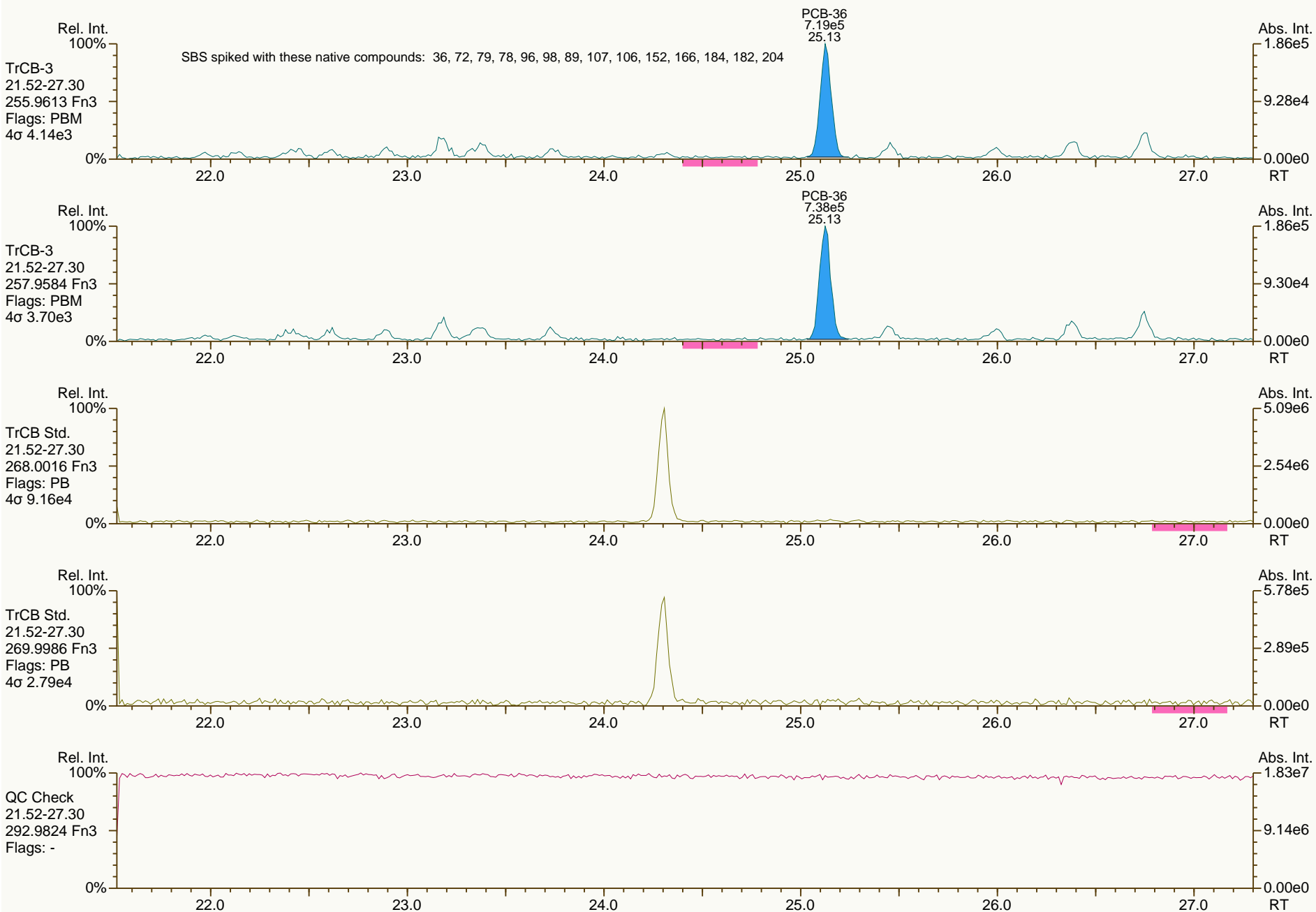
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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Sample ID: SIL 9-42-1  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
 Instr: AutoSpec-Premier MM7

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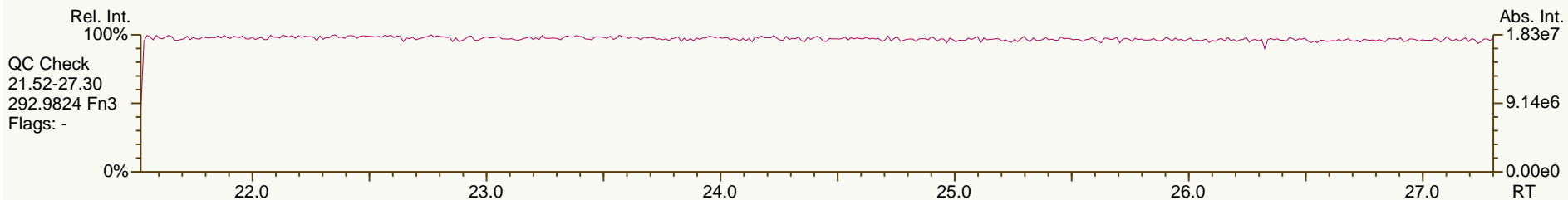
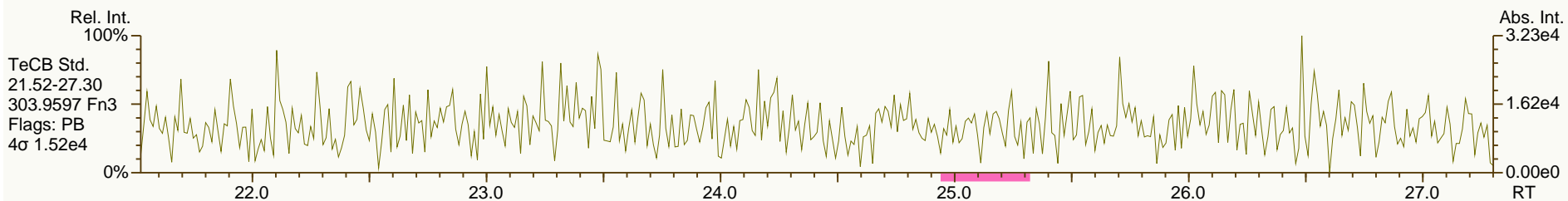
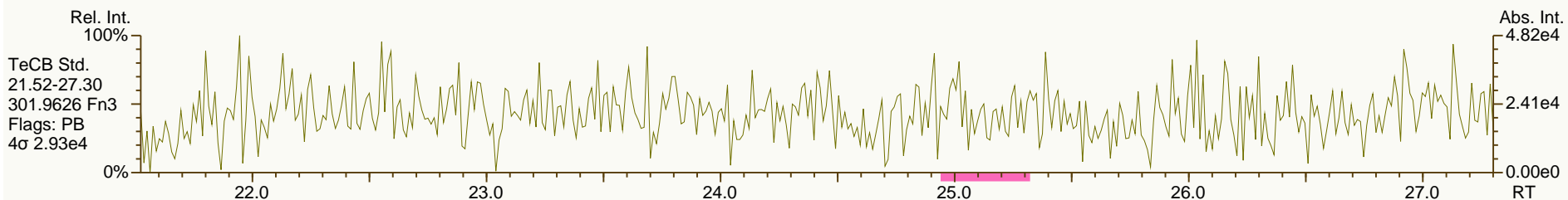
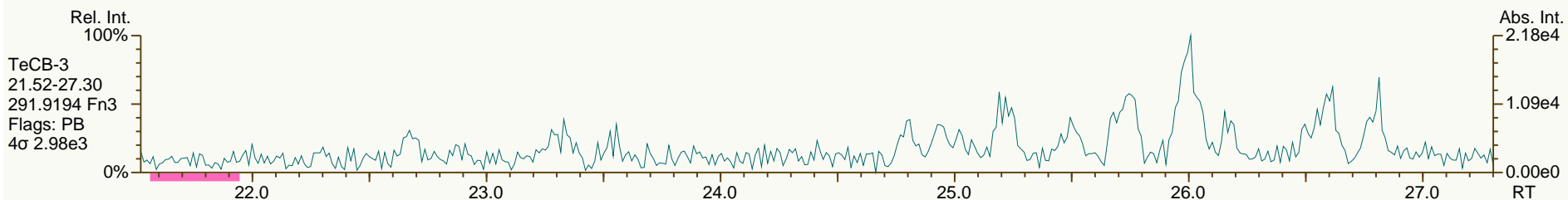
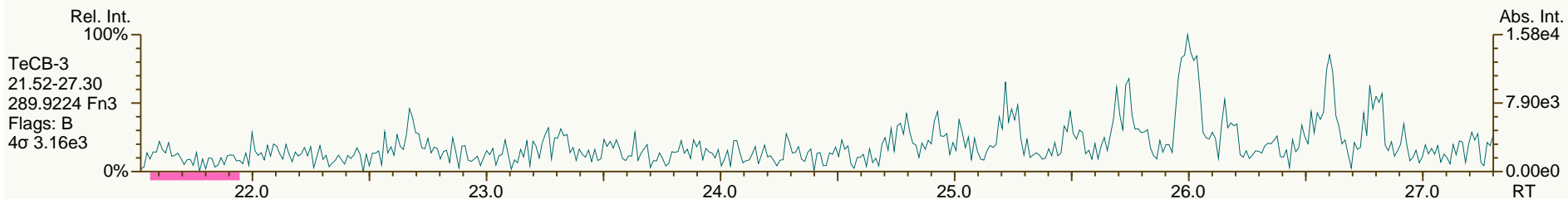
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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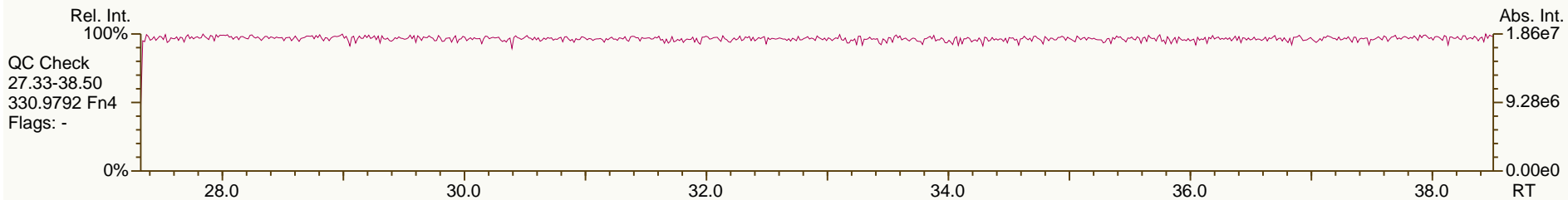
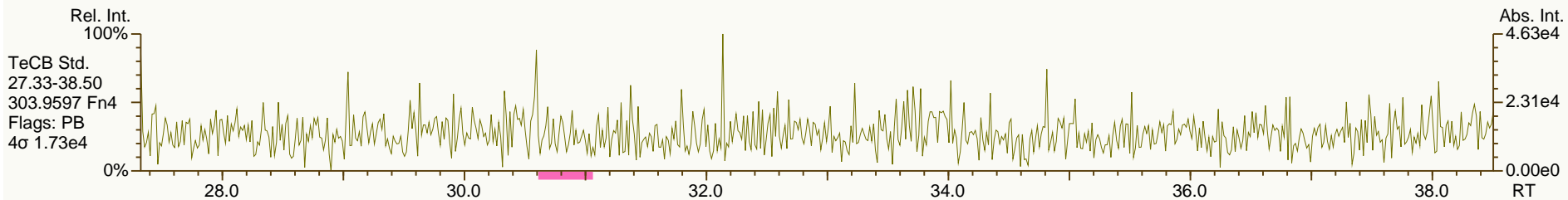
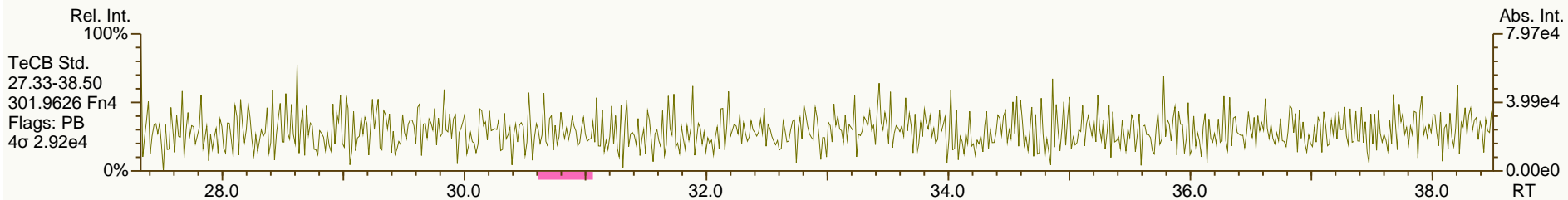
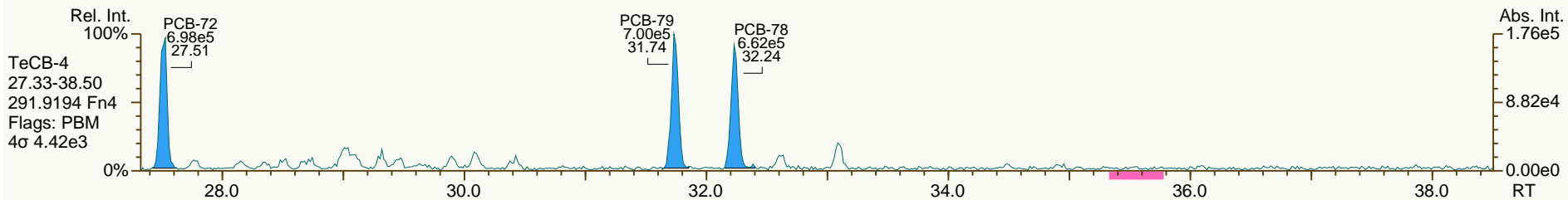
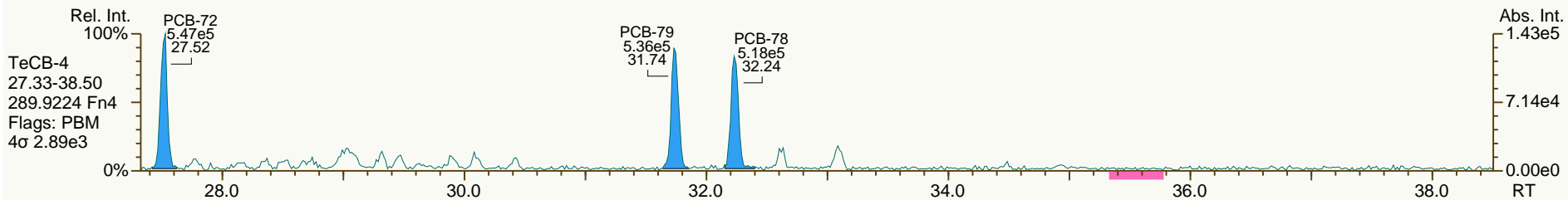
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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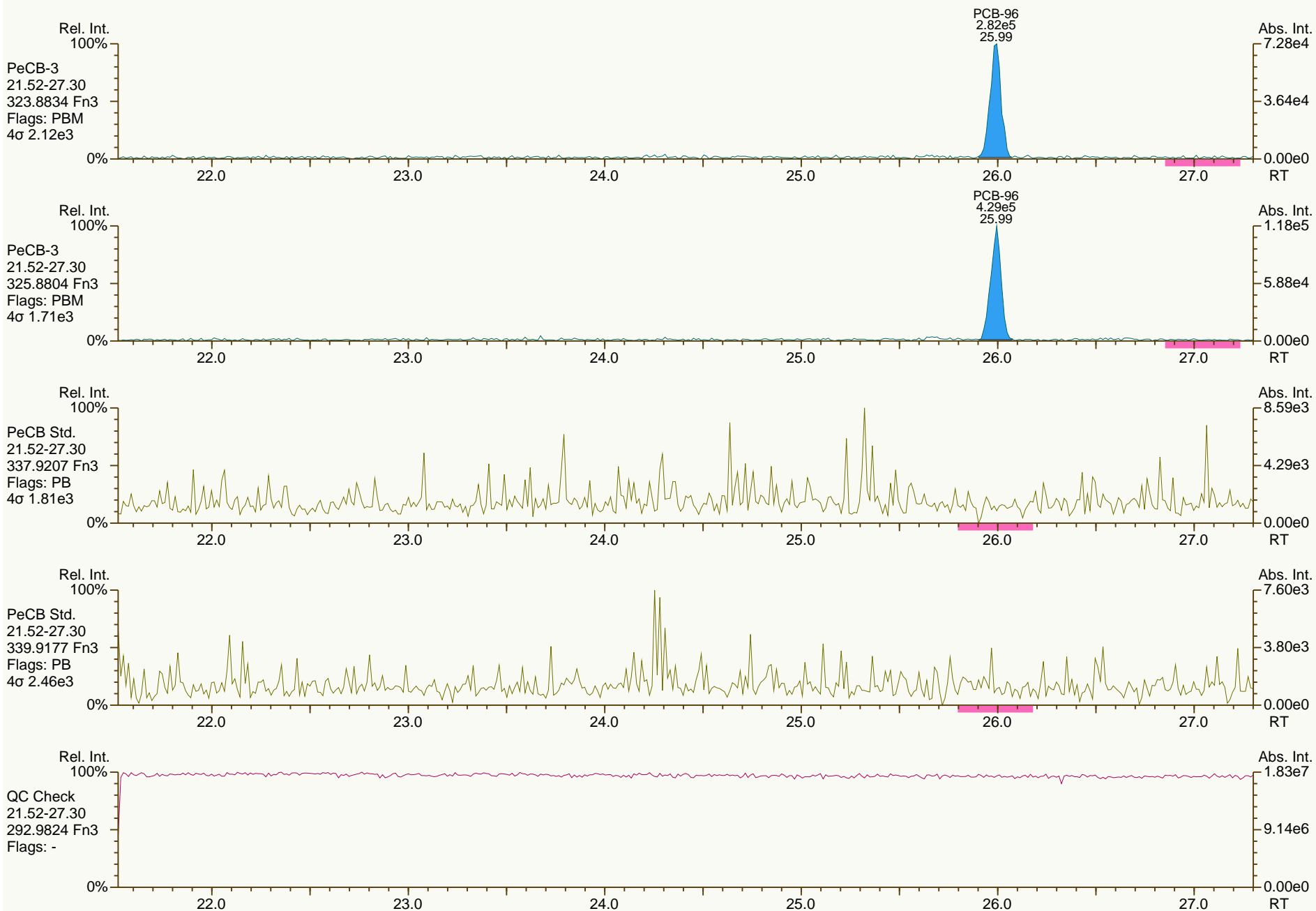
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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Sample ID: SIL 9-42-1  
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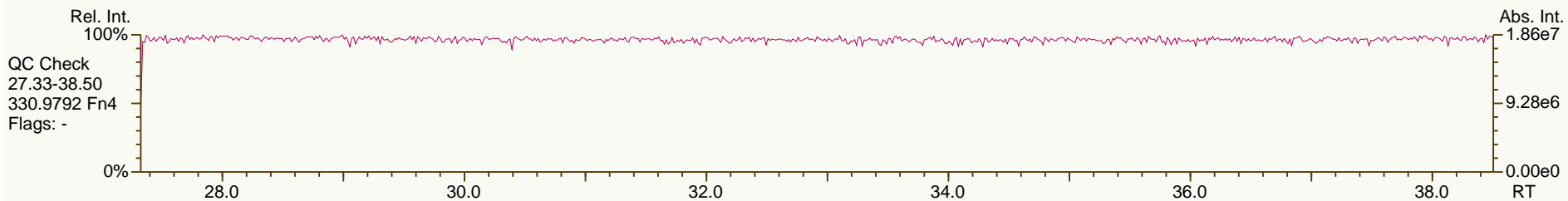
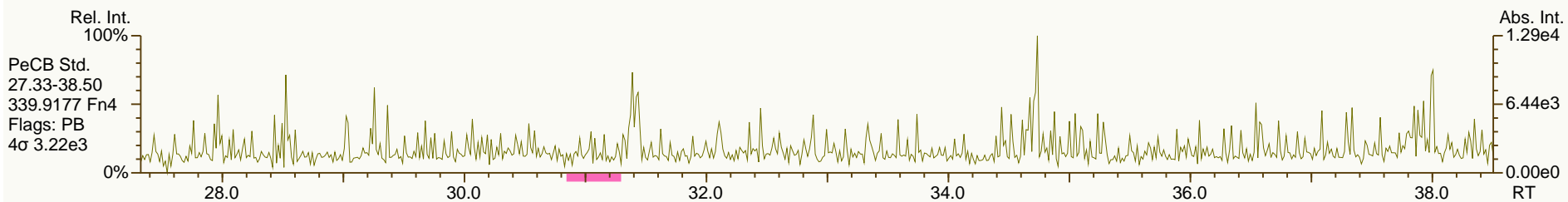
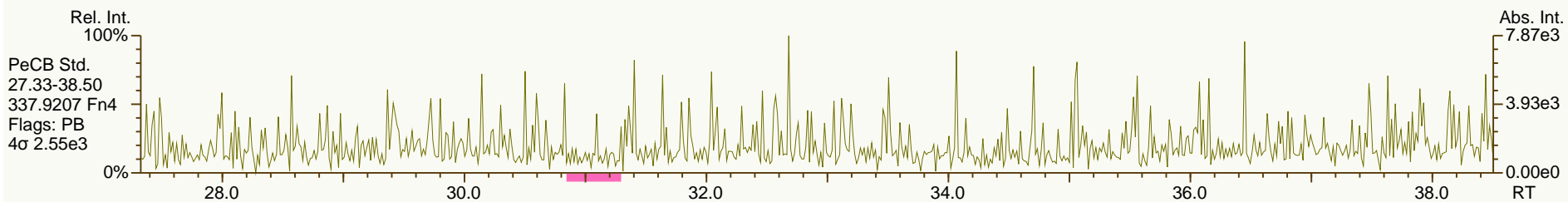
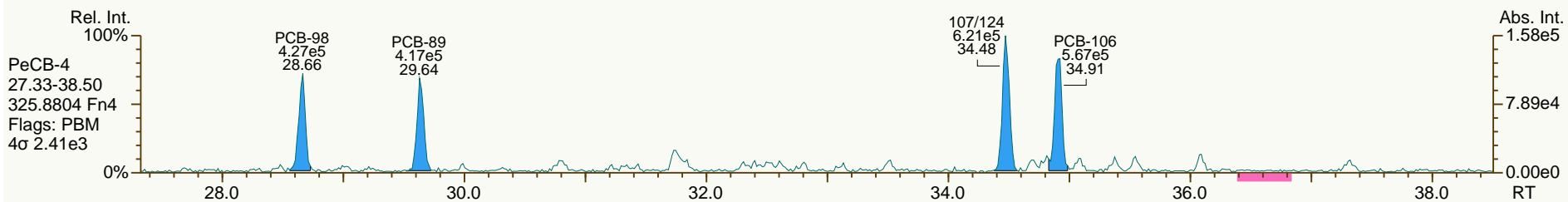
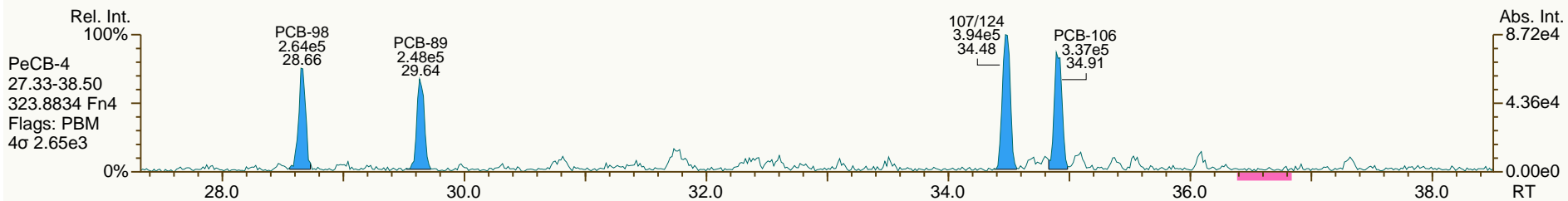




SGS-AP ID: SBS\_131220\_PCB\_XD  
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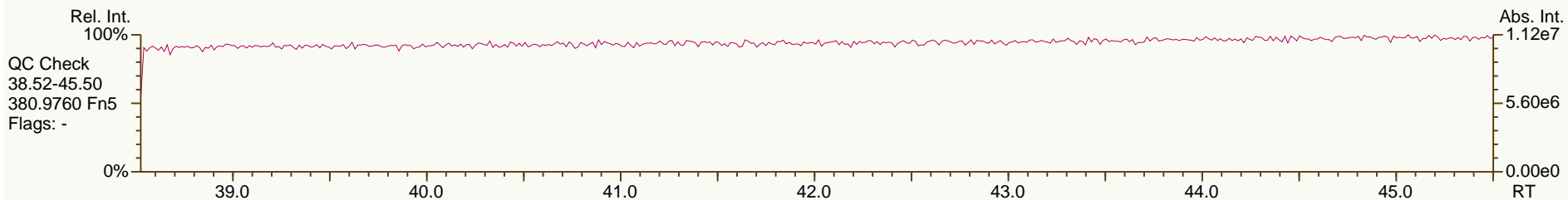
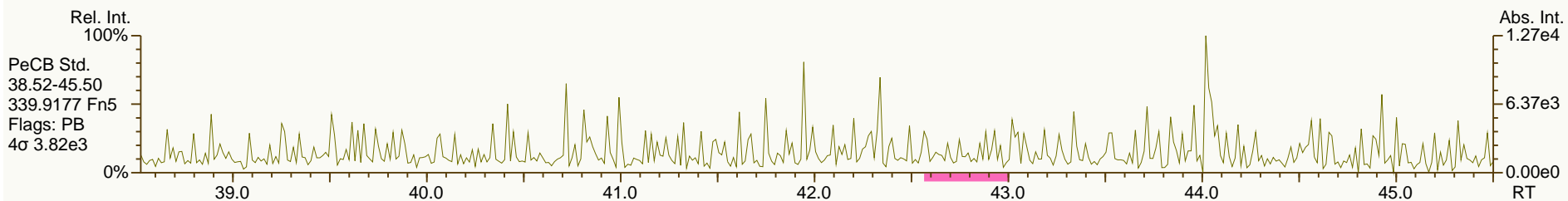
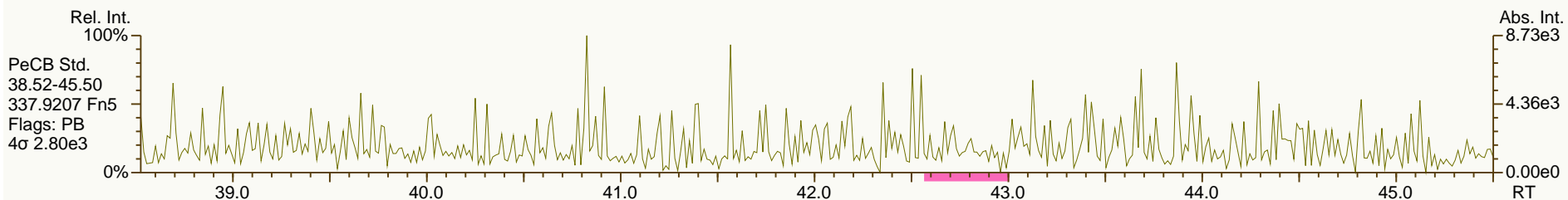
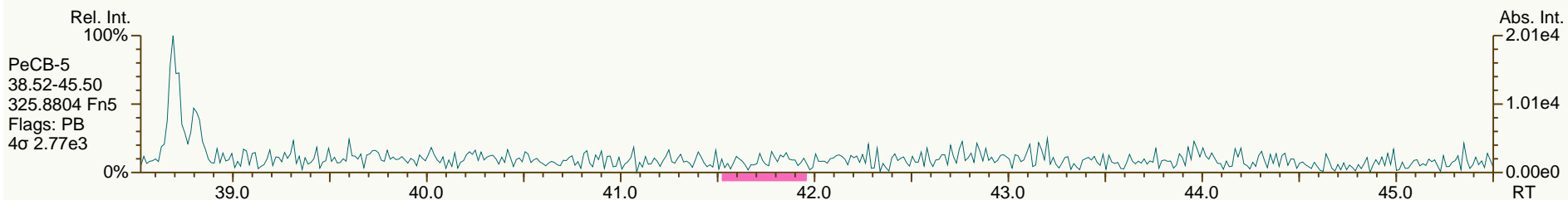
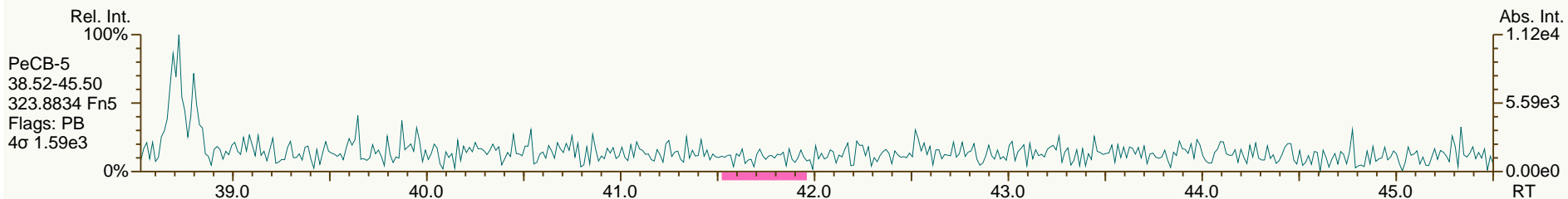
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Sample ID: SIL 9-42-1  
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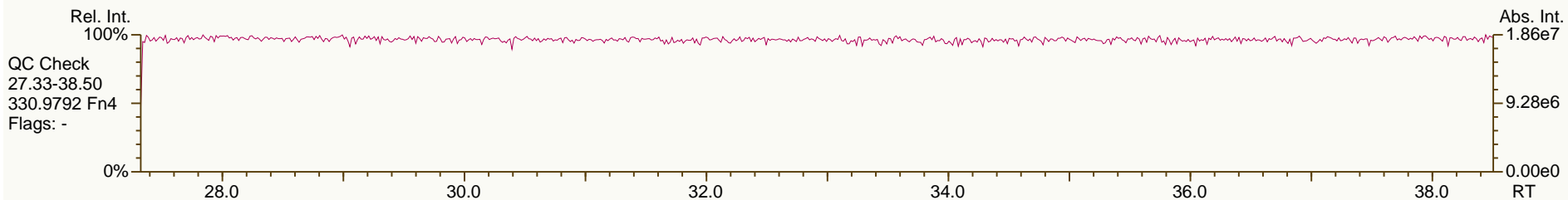
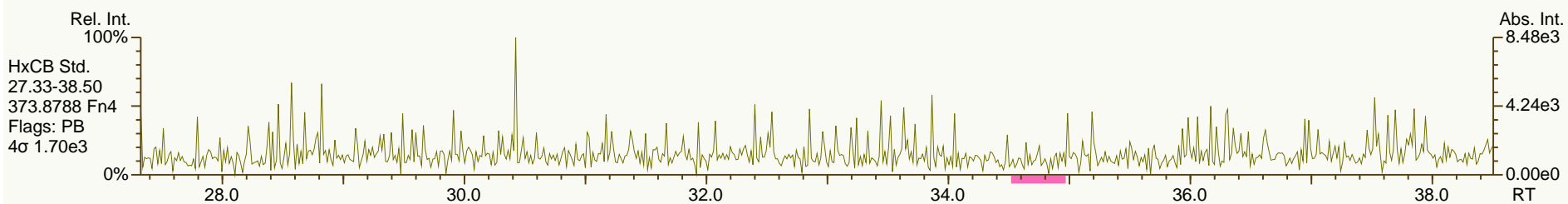
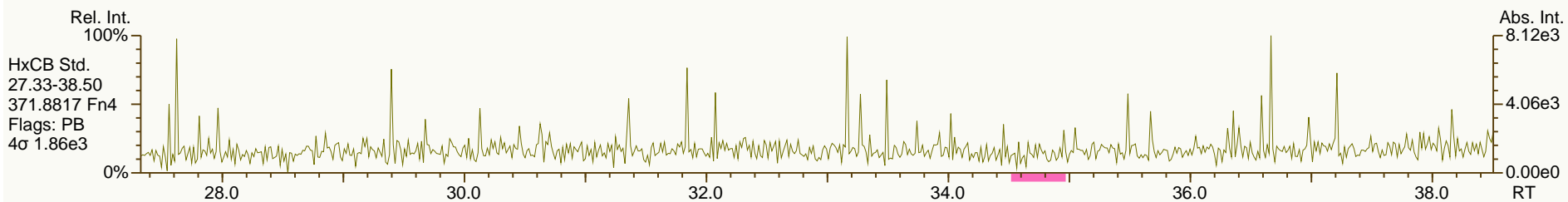
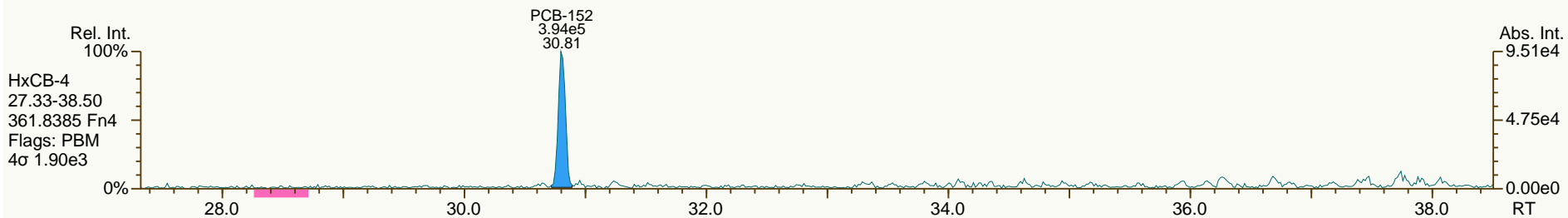
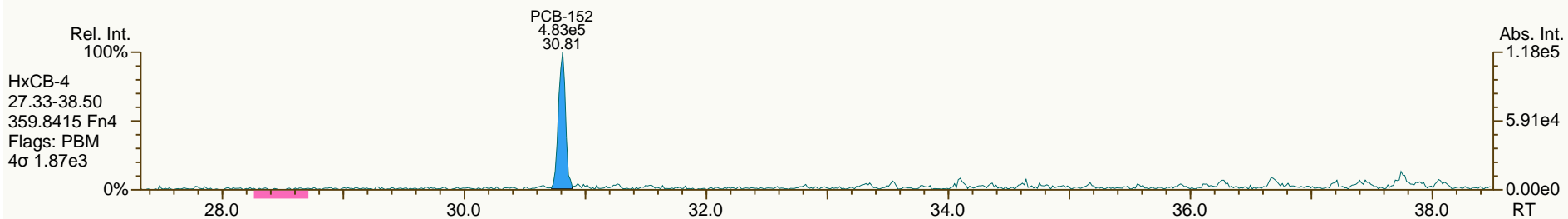
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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Sample ID: SIL 9-42-1  
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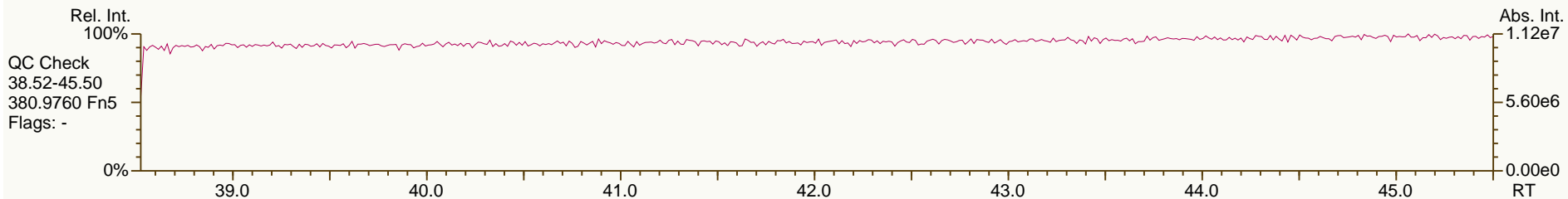
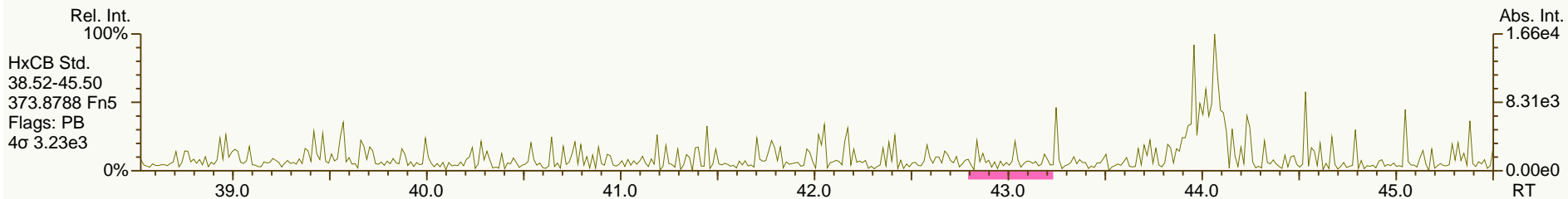
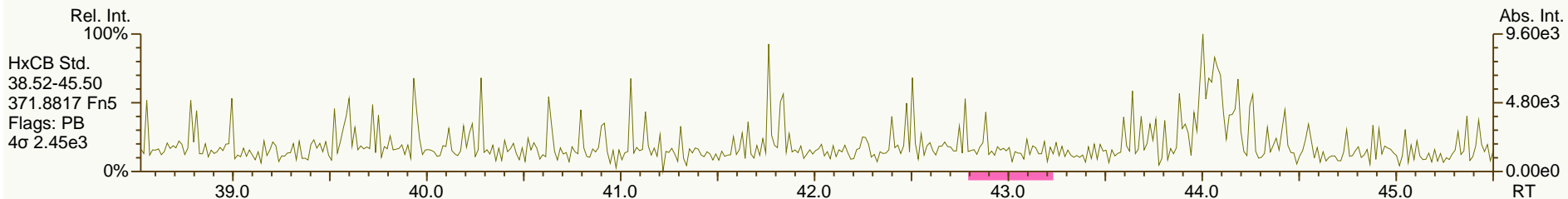
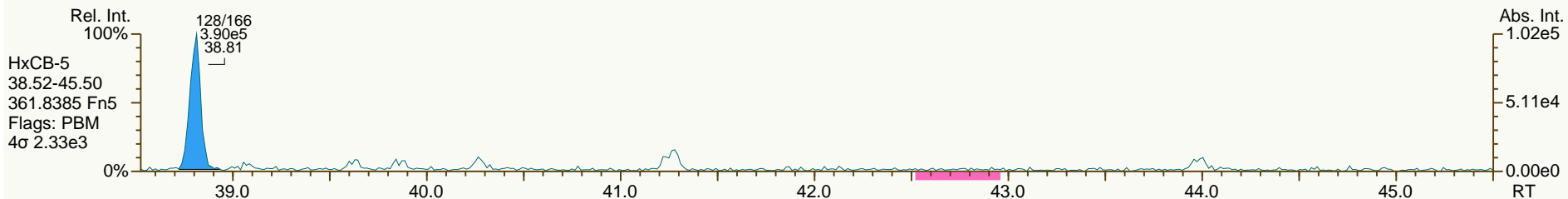
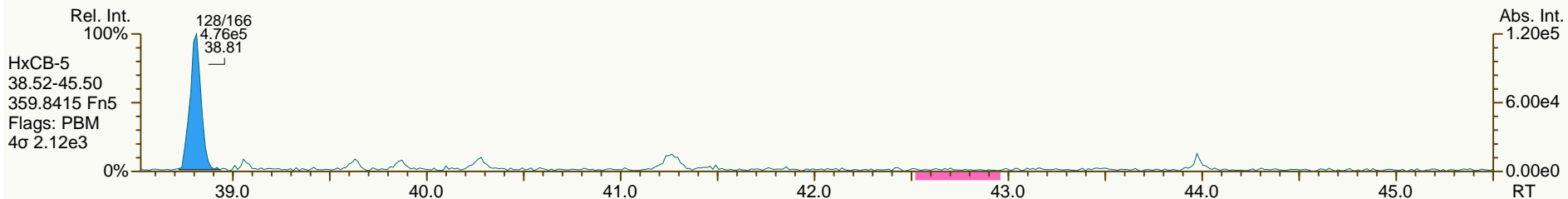
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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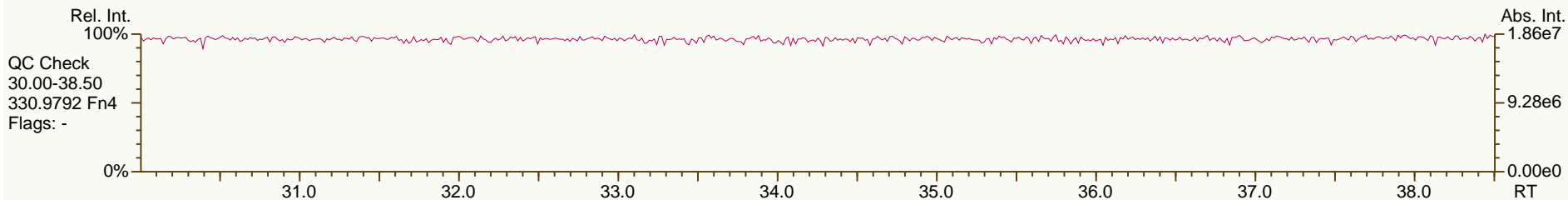
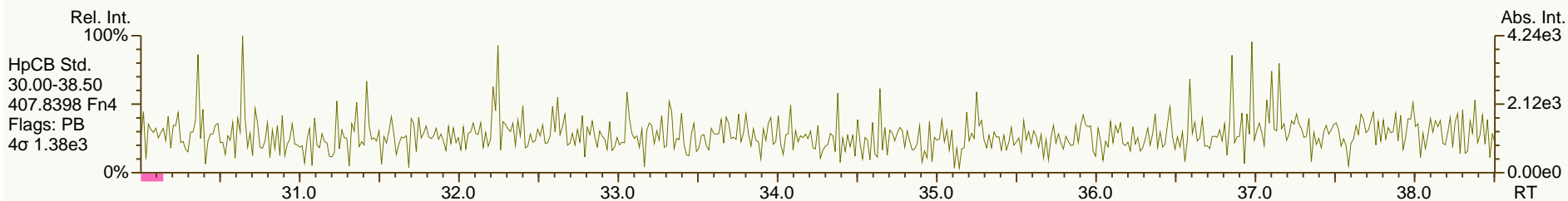
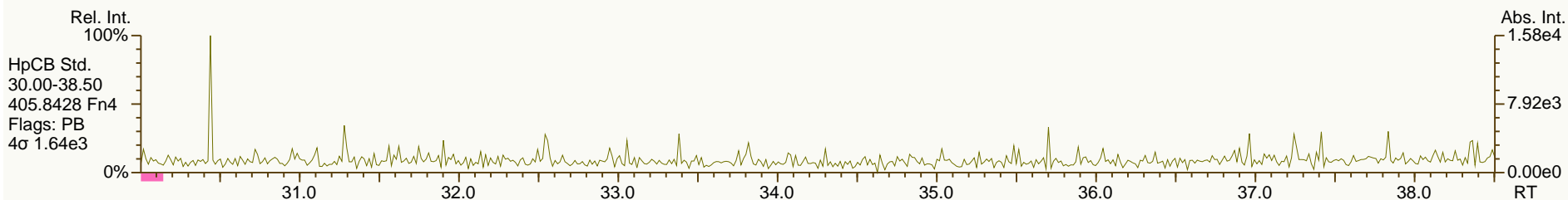
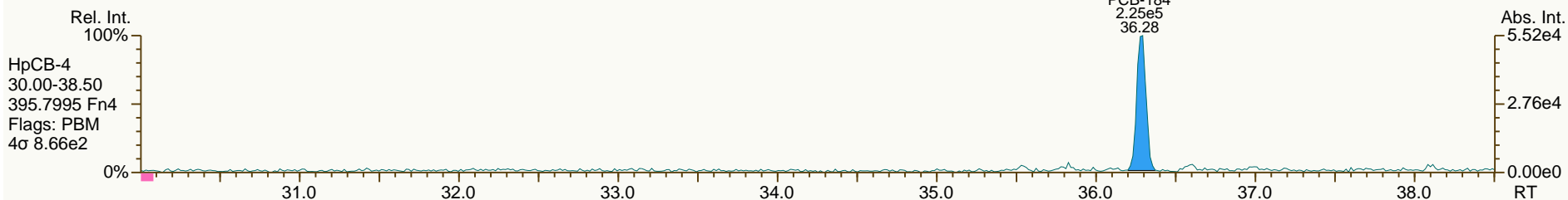
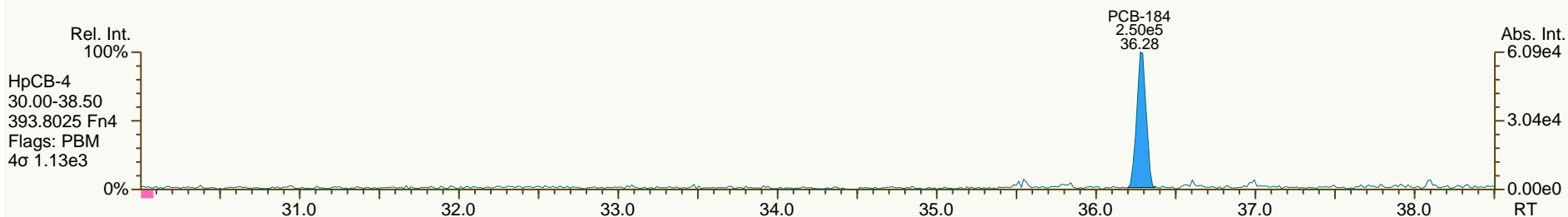
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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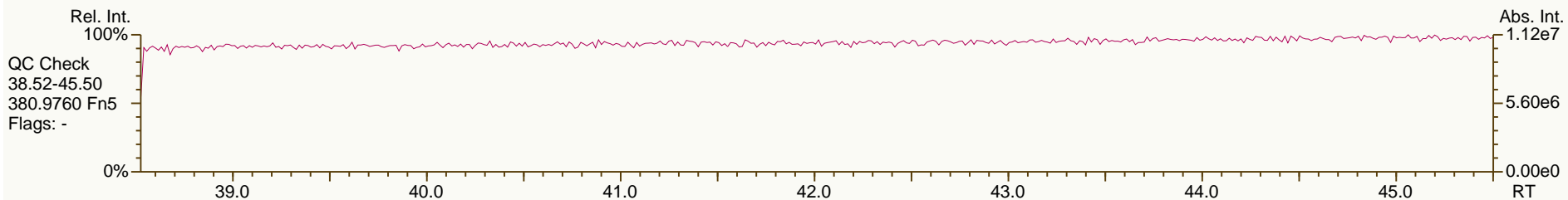
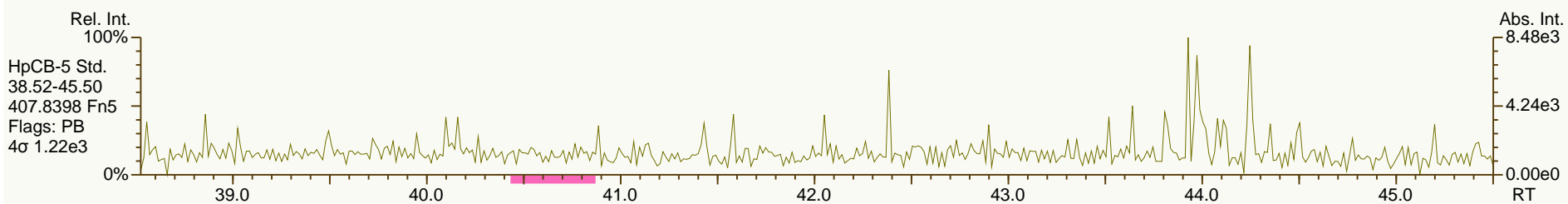
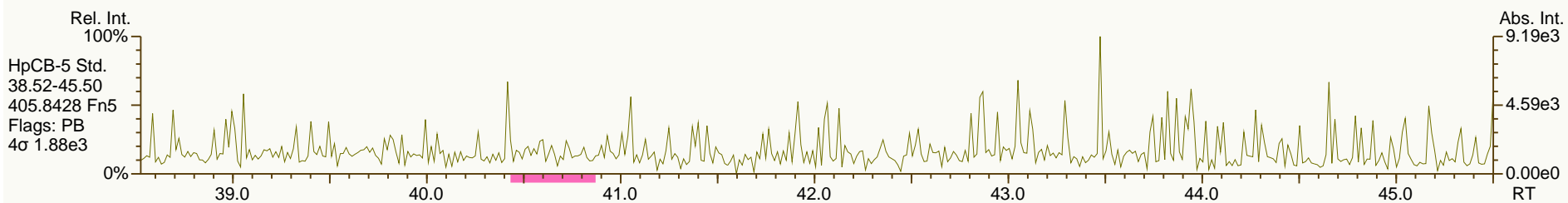
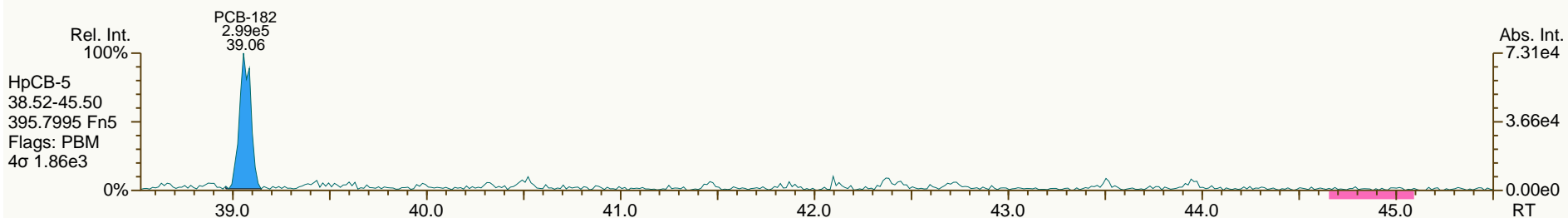
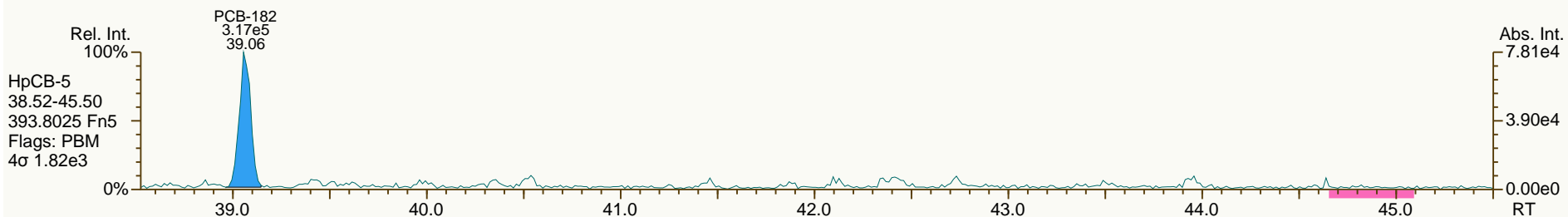
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SGS-AP ID: SBS\_131220\_PCB\_XD  
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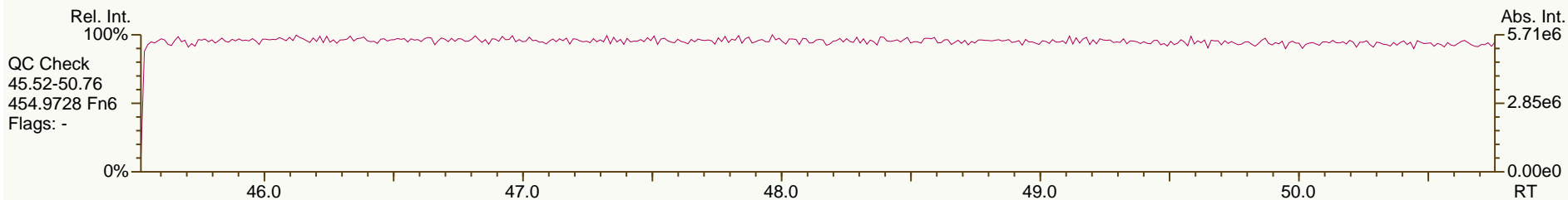
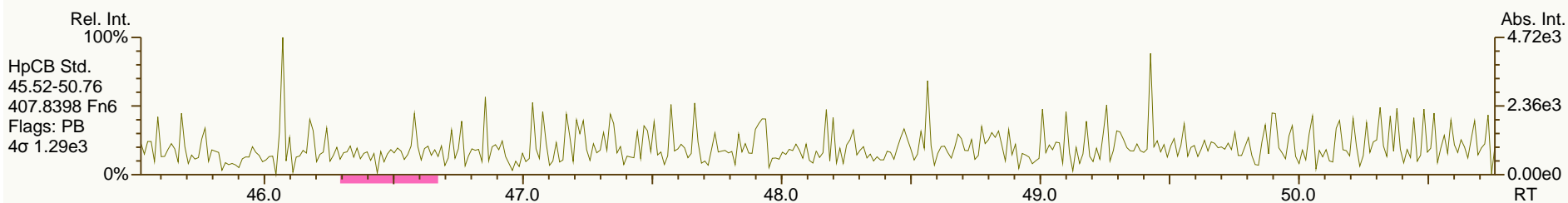
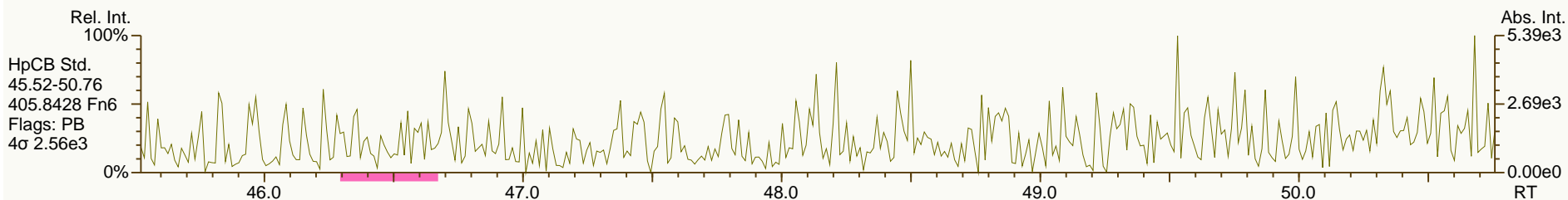
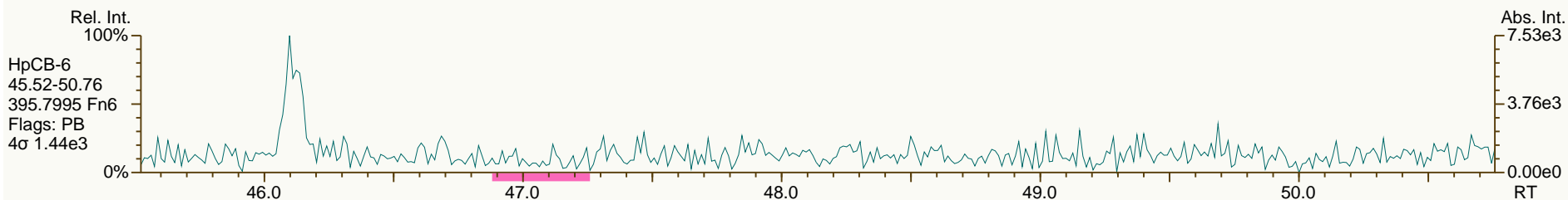
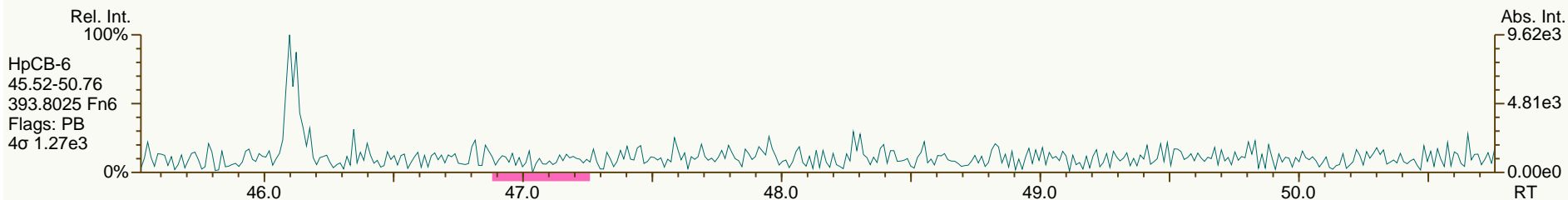
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

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SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
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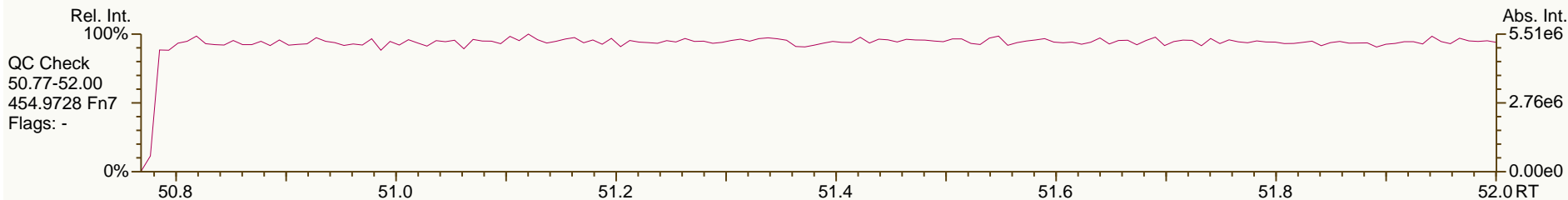
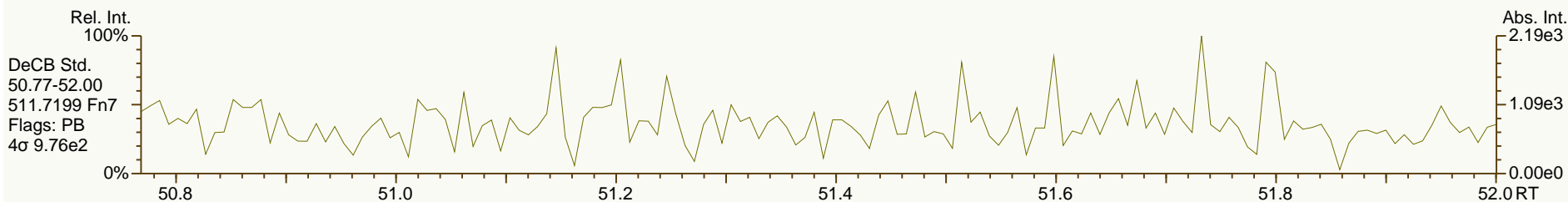
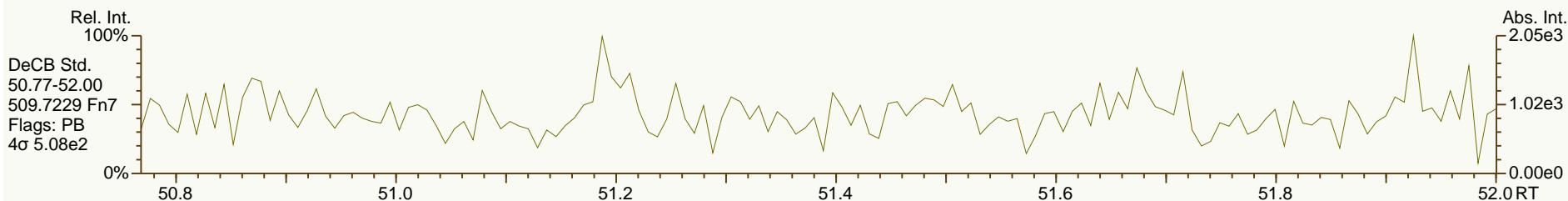
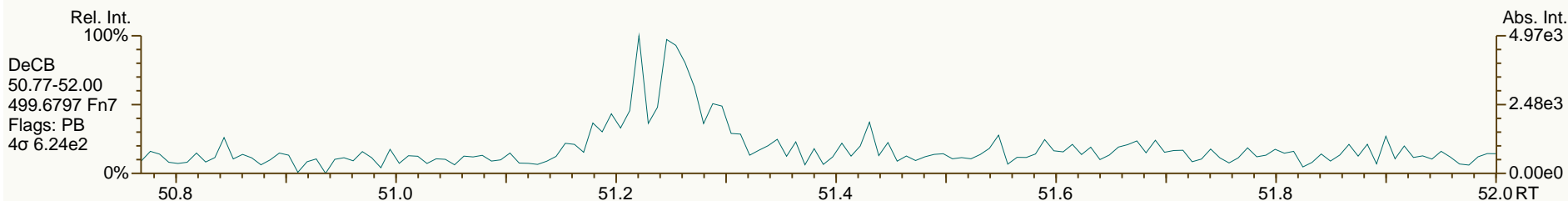
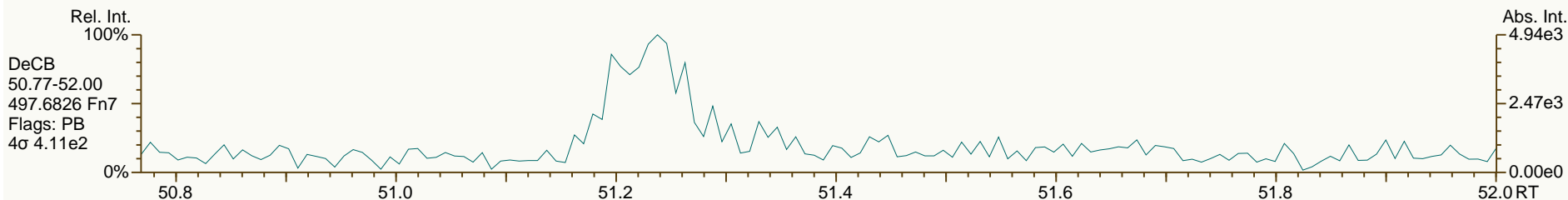
Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



SGS-AP ID: SBS\_131220\_PCB\_XD  
Instr: AutoSpec-Premier MM7

Sample ID: SIL 9-42-1  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 2

Acq: 20-Dec-2013 22:52:16  
User: LKB Datafile: 131220X10



## Experiment Calibration Report

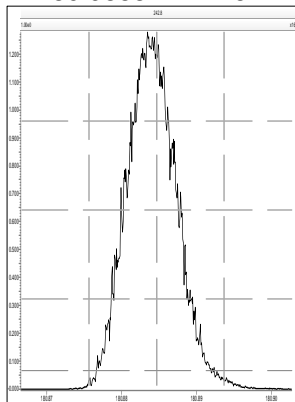
MassLynx 4.1 SCN 881

Page 1 of 1

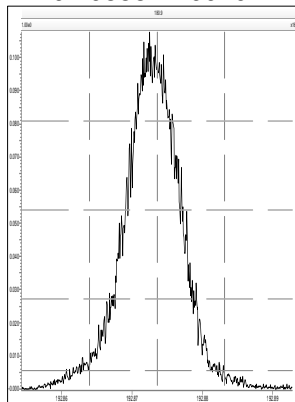
File: Experiment: pcb-2012-01.exp Reference: Pfk3.ref Function: 1 @ 200 (ppm)

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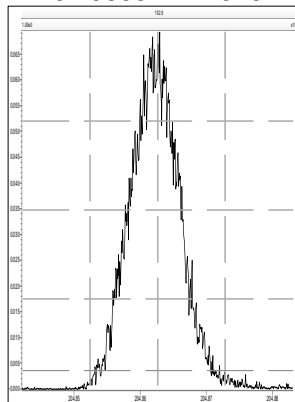
M 180.9888 R 11467



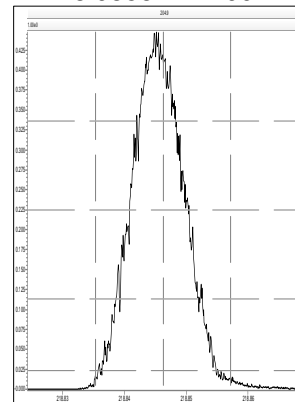
M 192.9888 R 9920



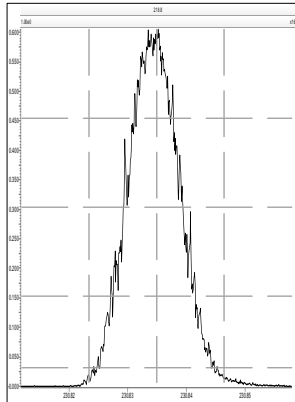
M 204.9888 R 12316



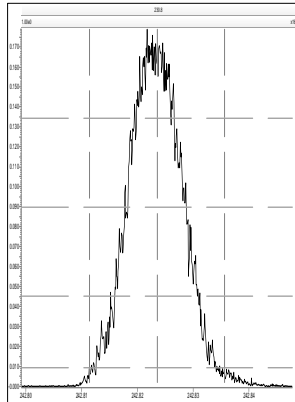
M 218.9856 R 11902



M 230.9856 R 11523



M 242.9856 R 11311



## Experiment Calibration Report

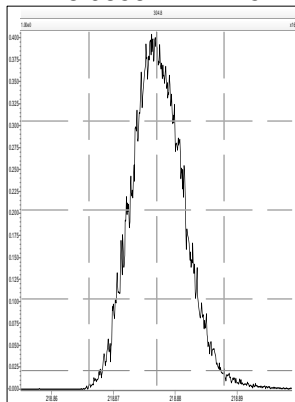
MassLynx 4.1 SCN 881

Page 1 of 1

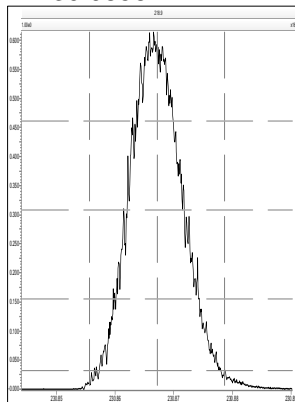
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Printed: Friday, December 20, 2013 14:52:25 Eastern Standard Time

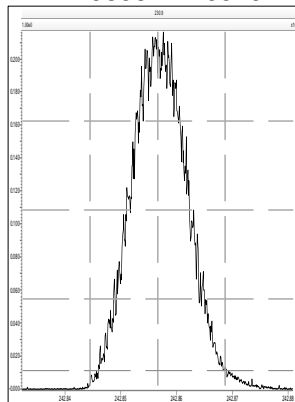
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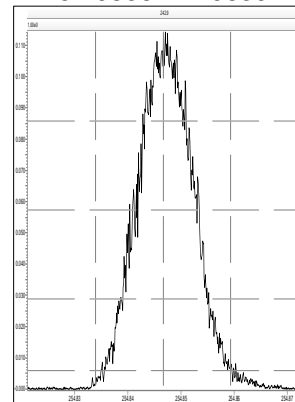
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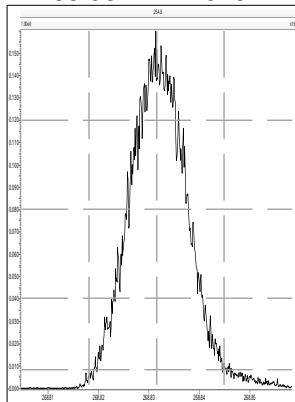
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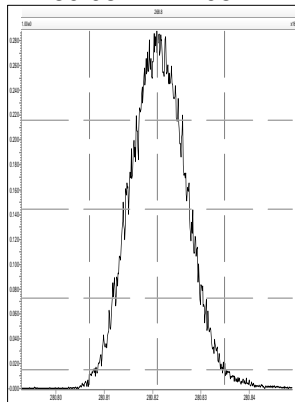
M 254.9856 R 10639



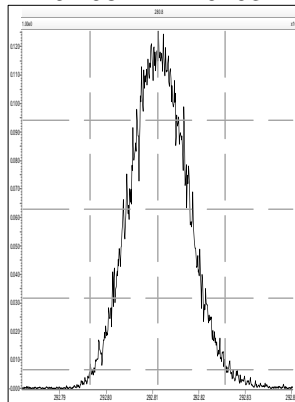
M 268.9824 R 10161



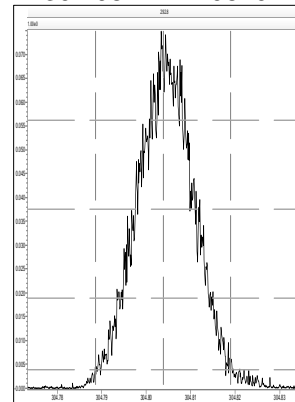
M 280.9824 R 10871



M 292.9824 R 10203



M 304.9824 R 10820



## Experiment Calibration Report

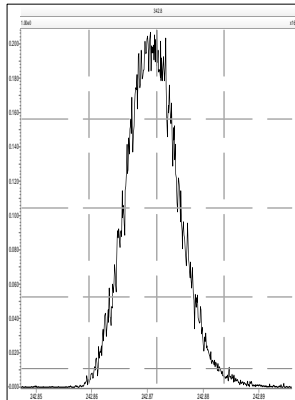
MassLynx 4.1 SCN 881

Page 1 of 1

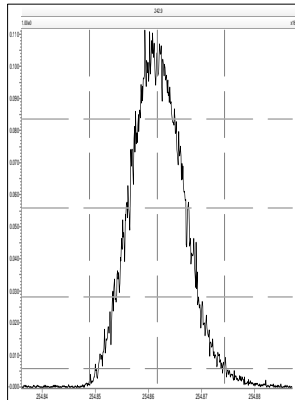
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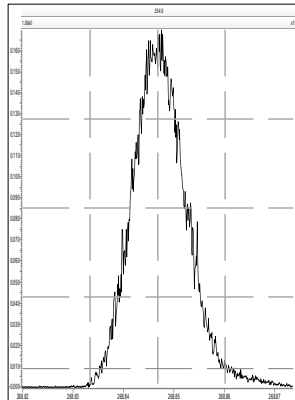
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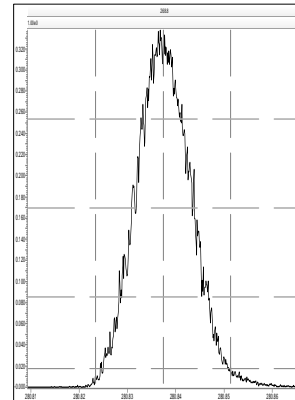
M 254.9856 R 10868



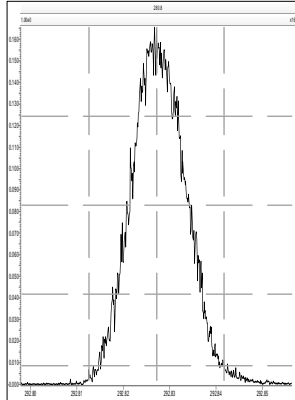
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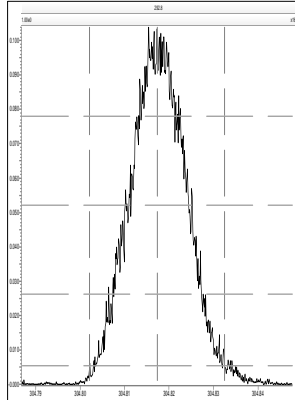
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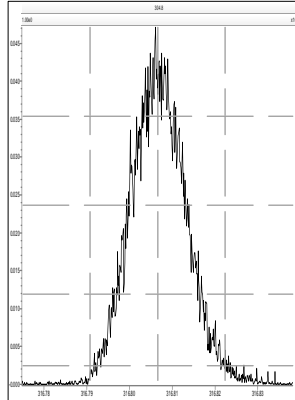
M 292.9824 R 11364



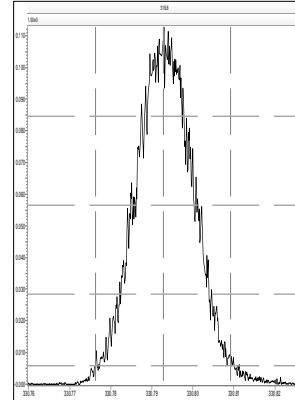
M 304.9824 R 10328



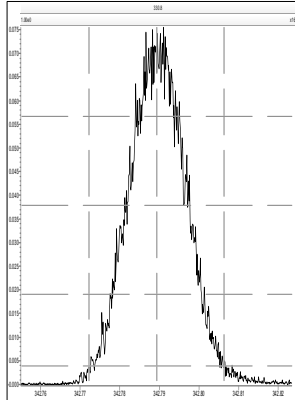
M 316.9824 R 10549



M 330.9792 R 9803



M 342.9792 R 10375



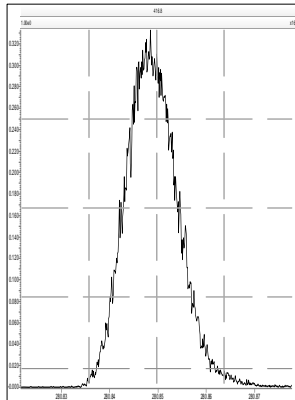
Experiment Calibration Report

MassLynx 4.1 SCN 881

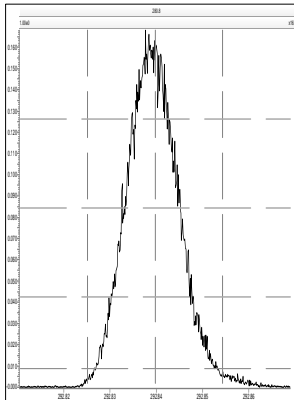
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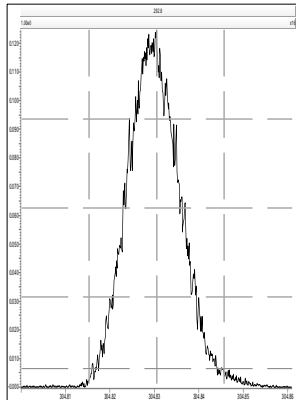
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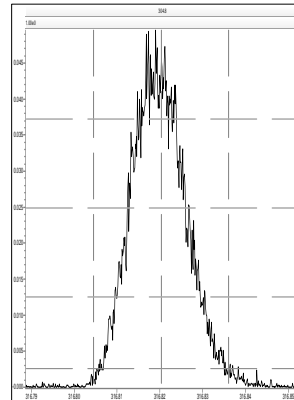
M 292.9824 R 10771



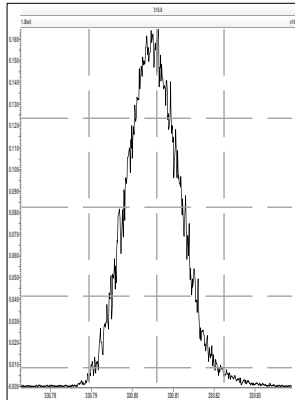
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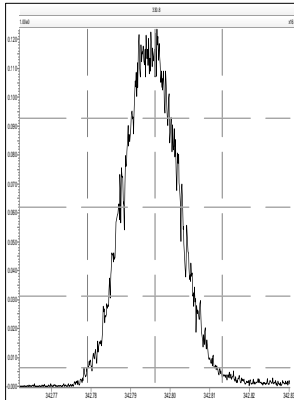
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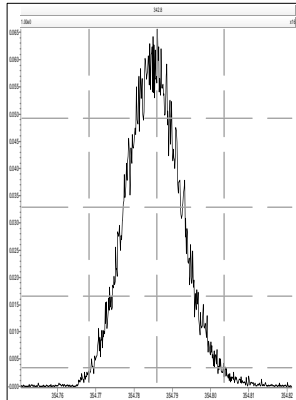
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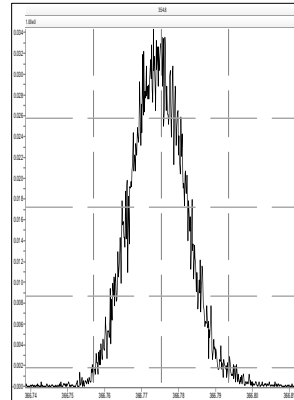
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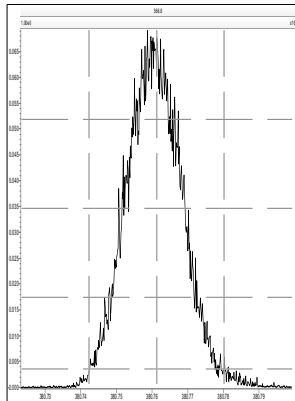
M 354.9792 R 10965



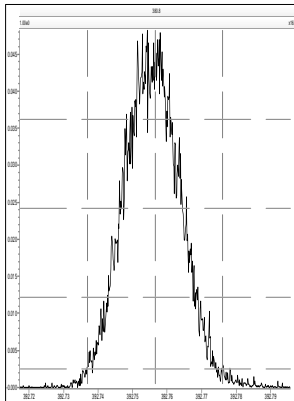
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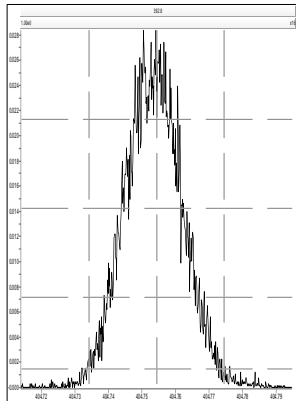
M 380.9760 R 10685



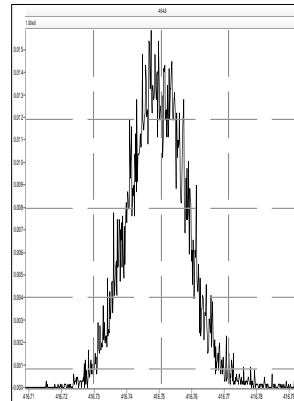
M 392.9760 R 10869



M 404.9760 R 10290



M 416.9760 R 11464



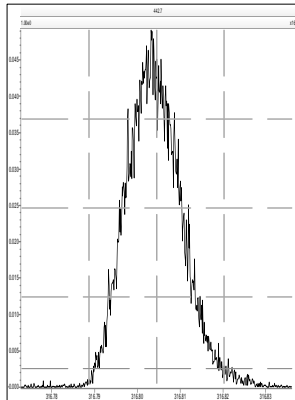
Experiment Calibration Report

MassLynx 4.1 SCN 881

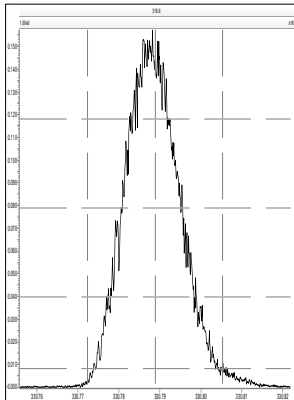
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Printed: Friday, December 20, 2013 14:54:02 Eastern Standard Time

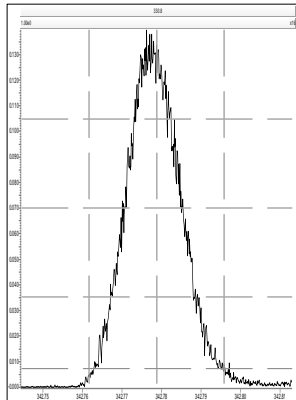
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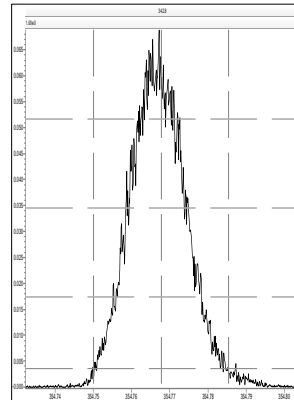
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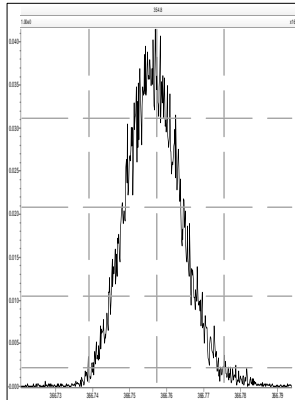
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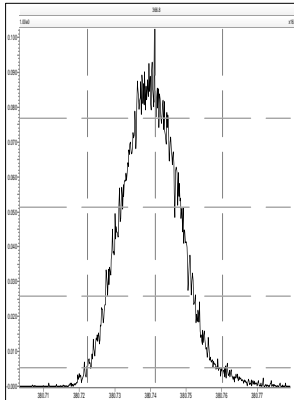
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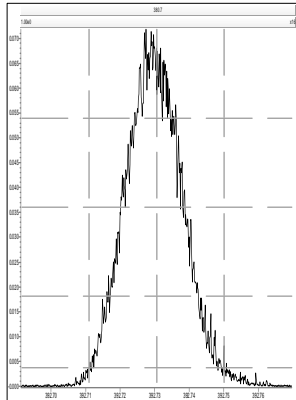
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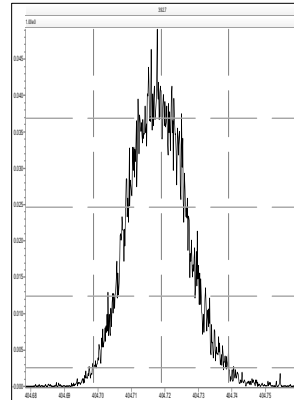
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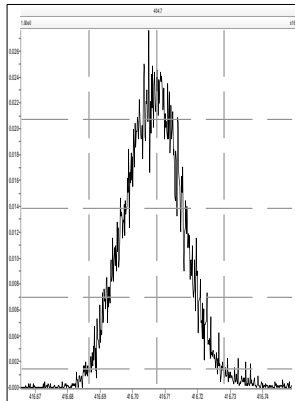
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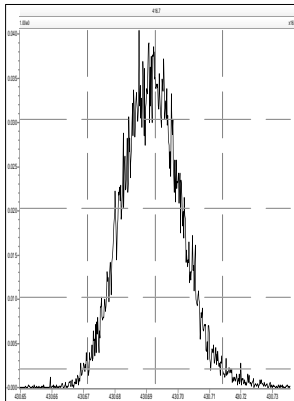
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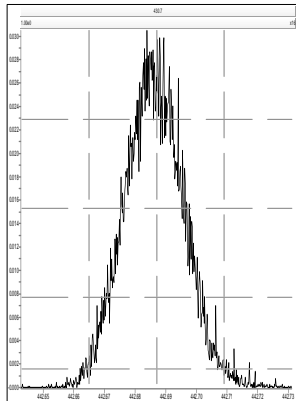
M 416.9760 R 10964



M 430.9728 R 10332



M 442.9728 R 10204





## Experiment Calibration Report

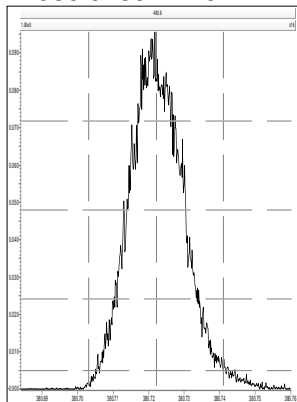
MassLynx 4.1 SCN 881

Page 1 of 1

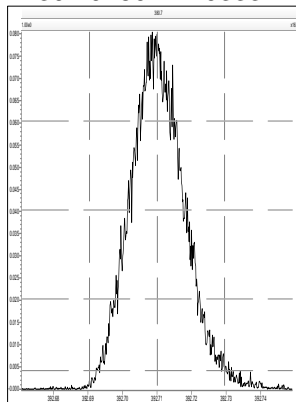
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Printed: Friday, December 20, 2013 14:55:29 Eastern Standard Time

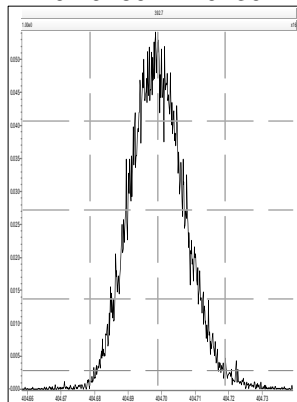
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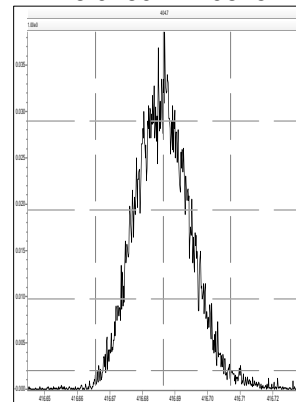
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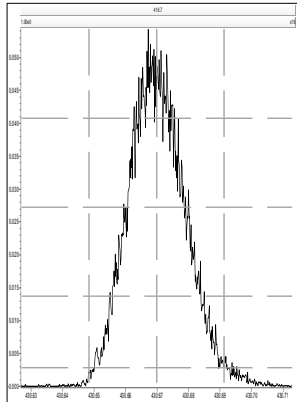
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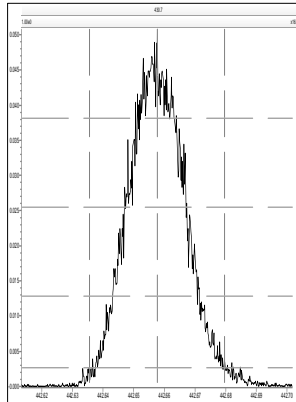
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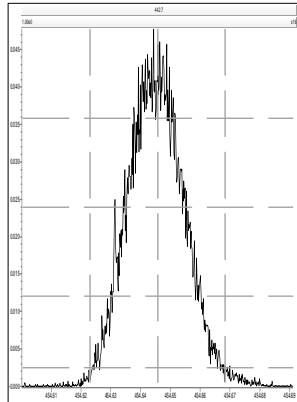
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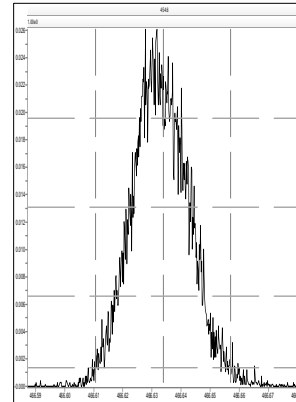
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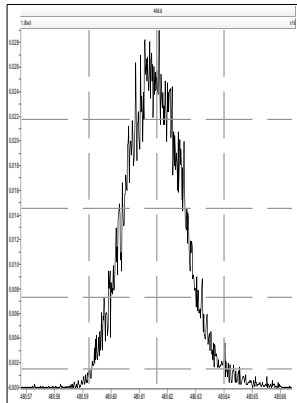
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M 466.9728 R 10246



M 480.9696 R 10165



## Experiment Calibration Report

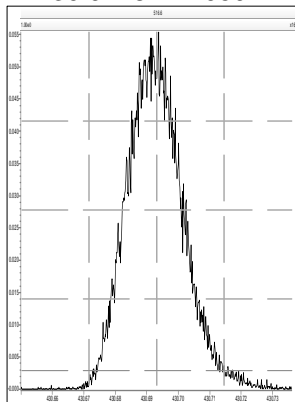
MassLynx 4.1 SCN 881

Page 1 of 1

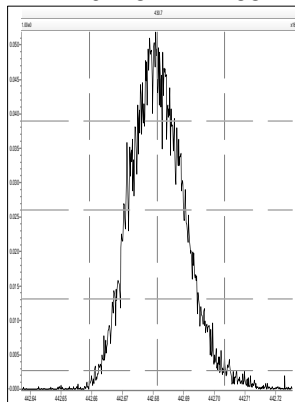
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Printed: Friday, December 20, 2013 14:56:11 Eastern Standard Time

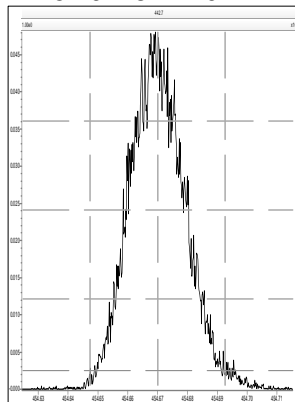
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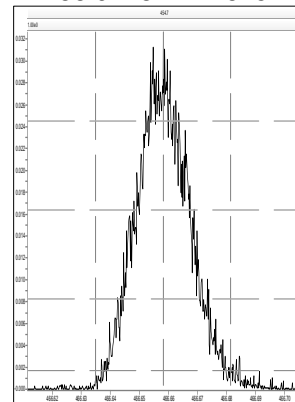
M 442.9728 R 11468



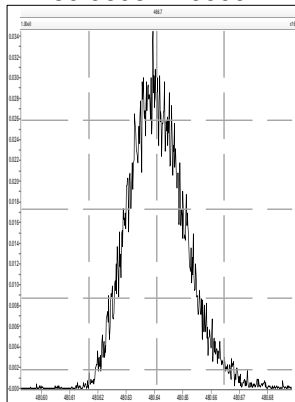
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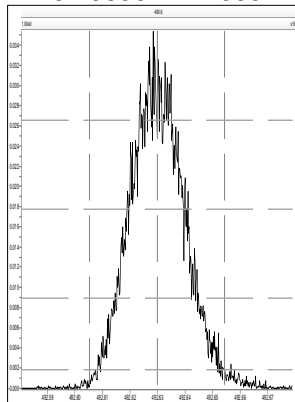
M 466.9728 R 11625



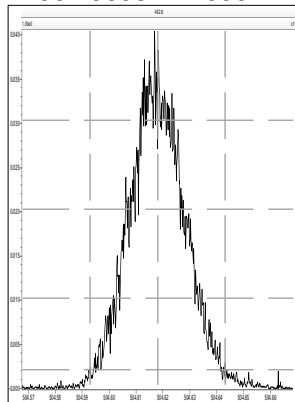
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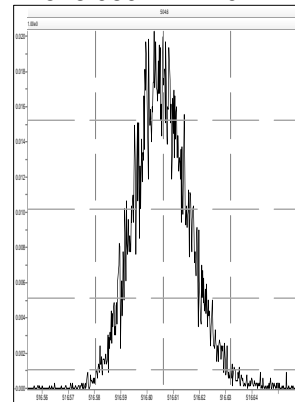
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M 504.9696 R 10504



M 516.9697 R 11012



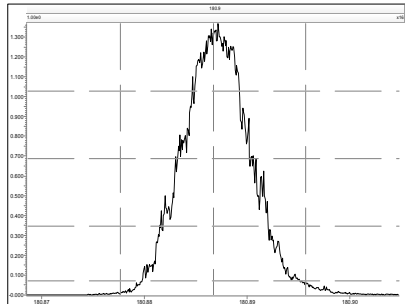
## Resolution Check Report

MassLynx 4.1 SCN 881

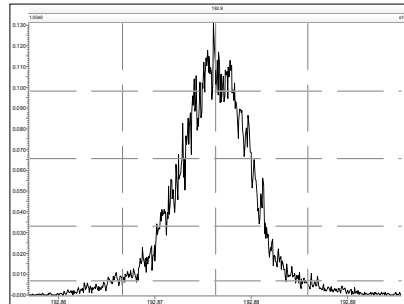
Page 1 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

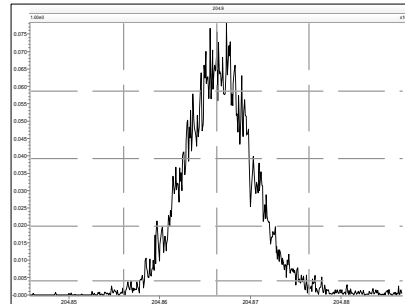
M 180.9888 R 11709



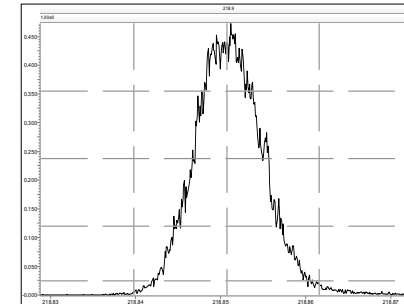
M 192.9888 R 10531



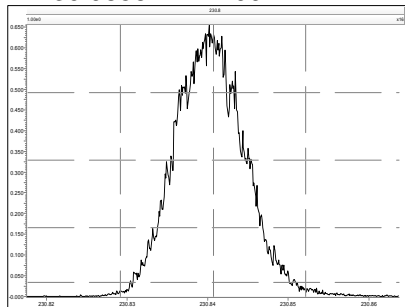
M 204.9888 R 11823



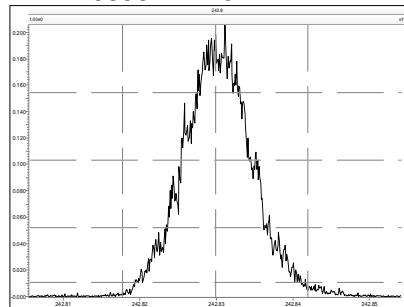
M 218.9856 R 12380



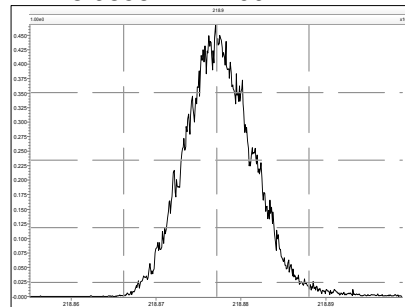
M 230.9856 R 11709



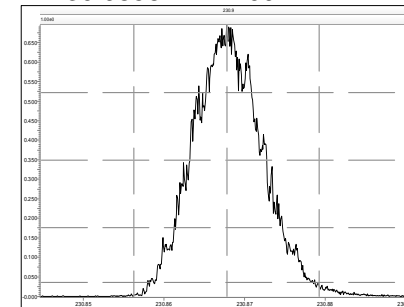
M 242.9856 R 11344



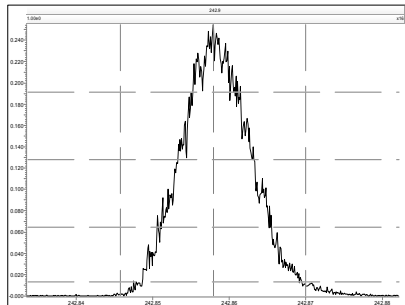
M 218.9856 R 11709



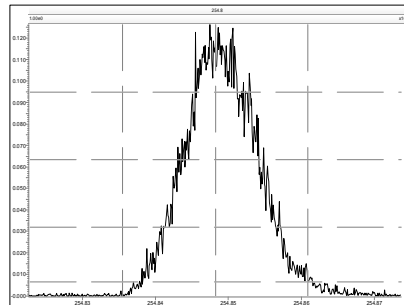
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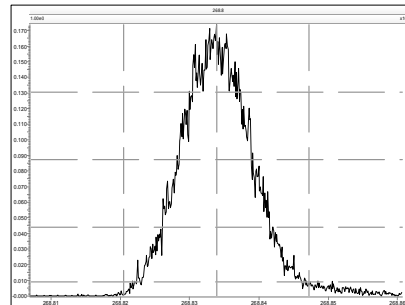
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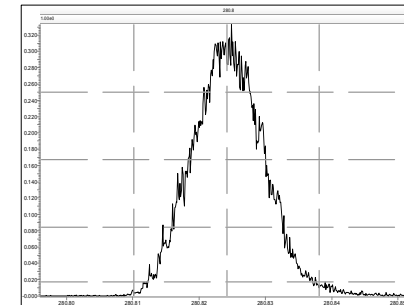
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M 268.9824 R 11848



M 280.9824 R 11210

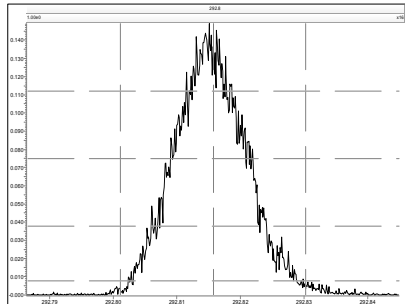


## Resolution Check Report

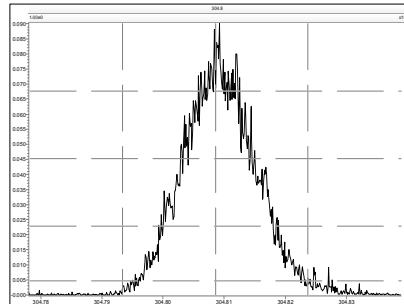
## MassLynx 4.1 SCN 881

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

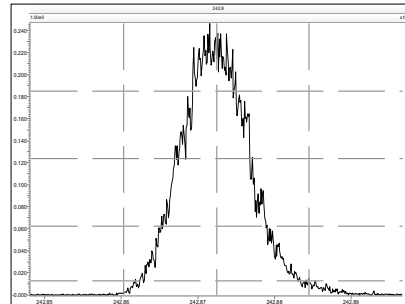
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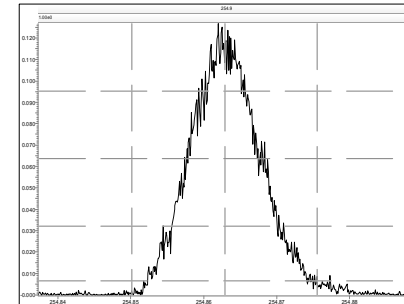
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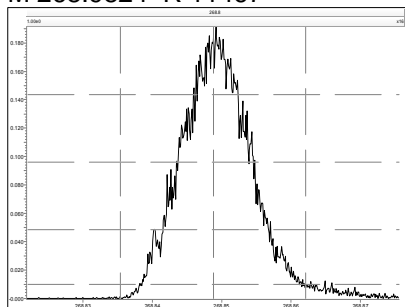
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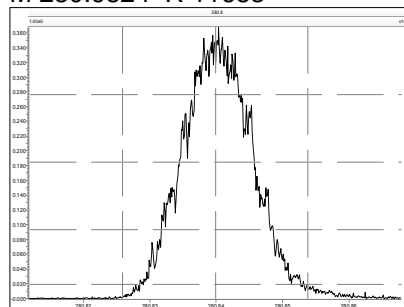
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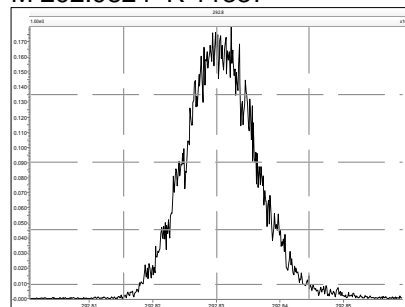
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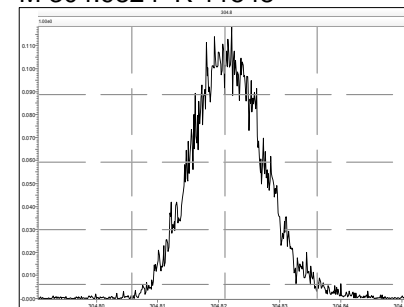
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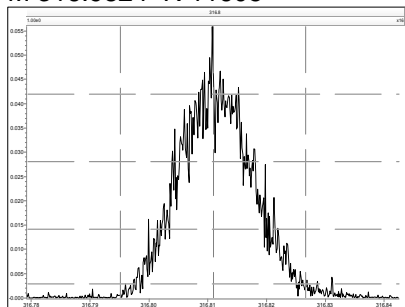
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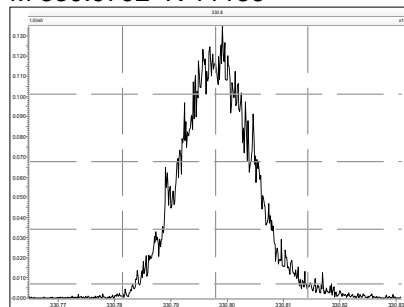
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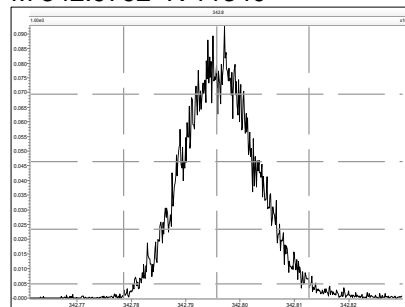
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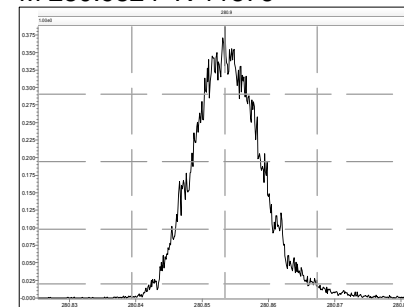
M 330.9792 R 11186



M 342.9792 R 11340



M 280.9824 R 11876



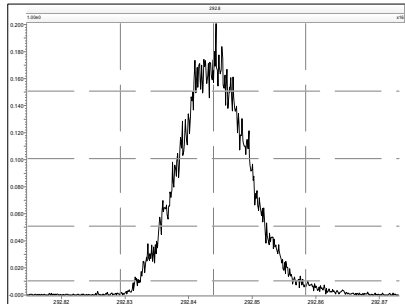
## Resolution Check Report

MassLynx 4.1 SCN 881

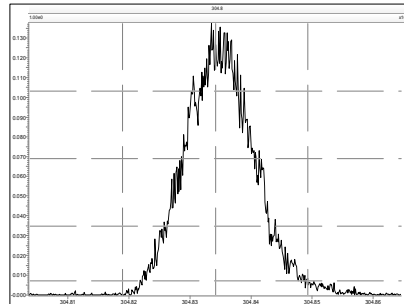
Page 3 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

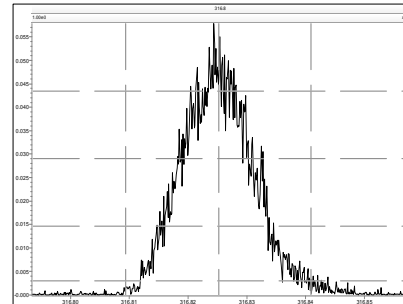
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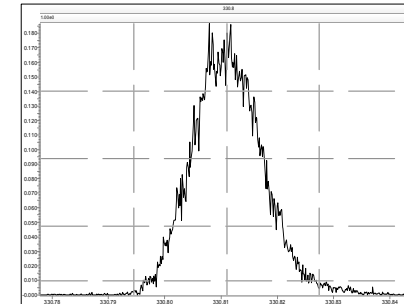
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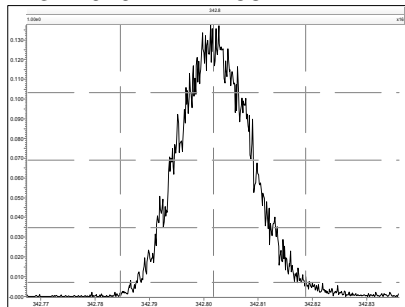
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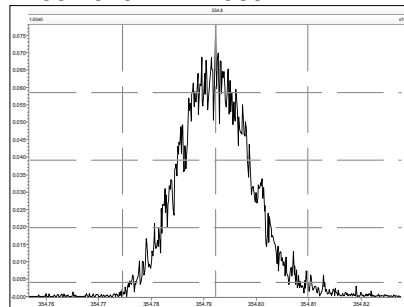
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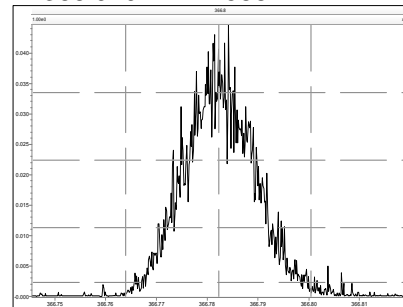
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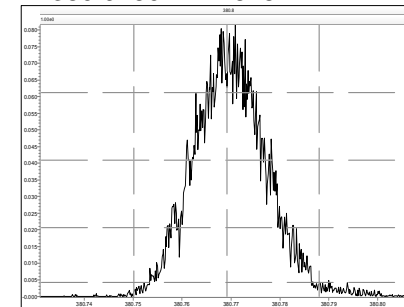
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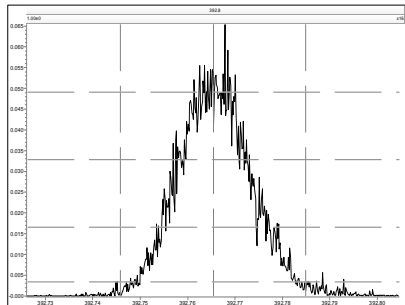
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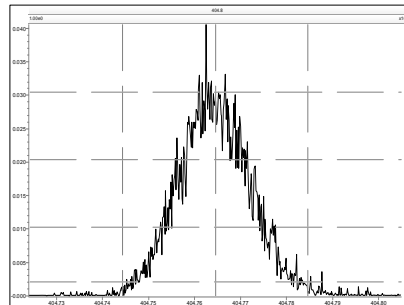
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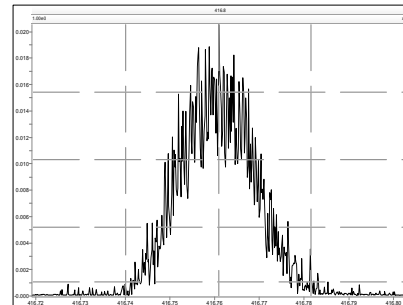
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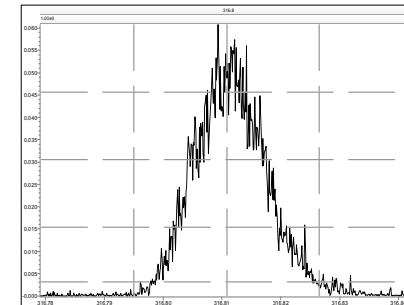
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M 416.9760 R 11574



M 316.9824 R 11467

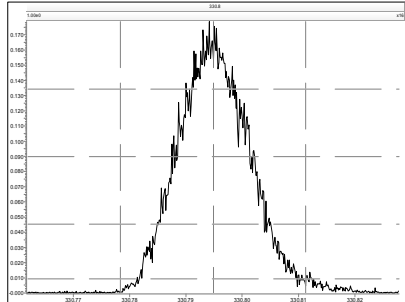


## Resolution Check Report

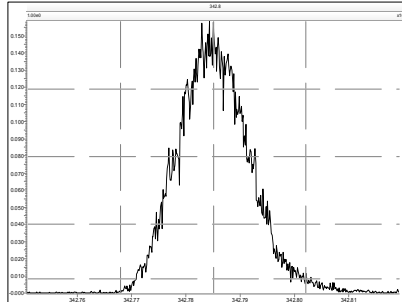
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Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

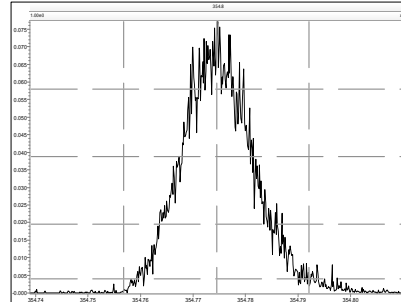
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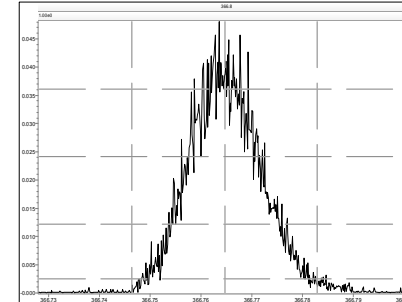
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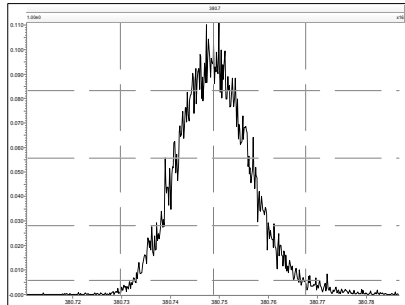
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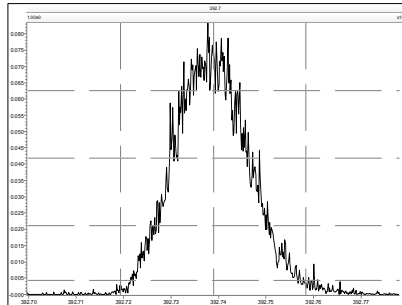
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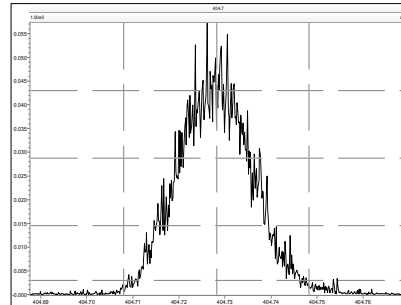
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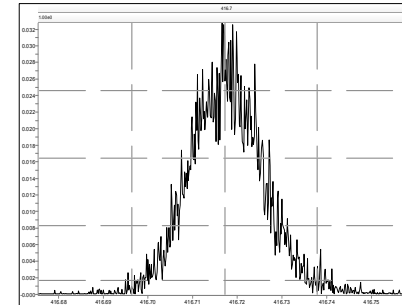
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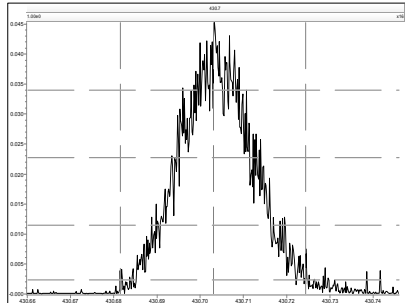
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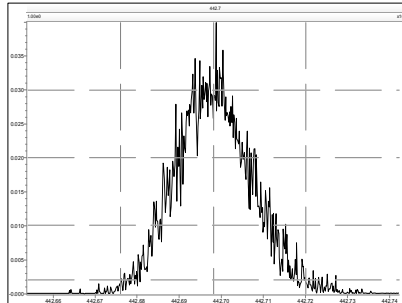
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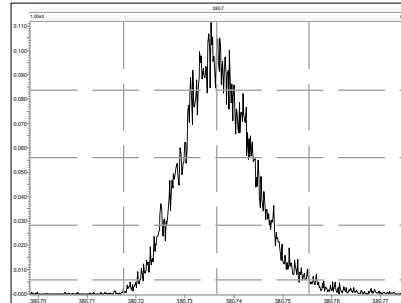
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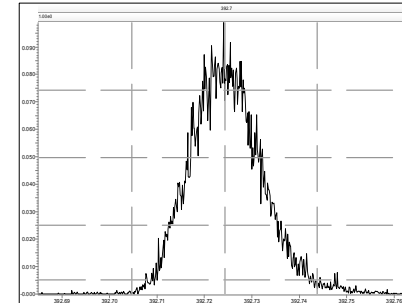
M 442.9728 R 11628



M 380.9760 R 11522



M 392.9760 R 11852

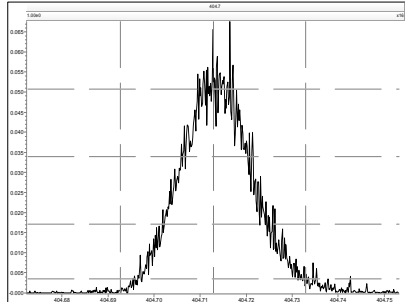


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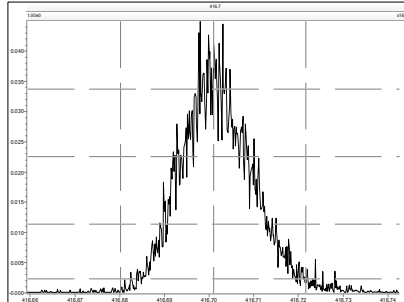
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Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

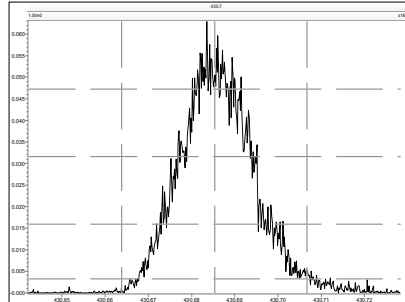
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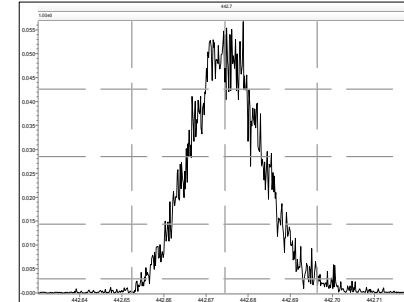
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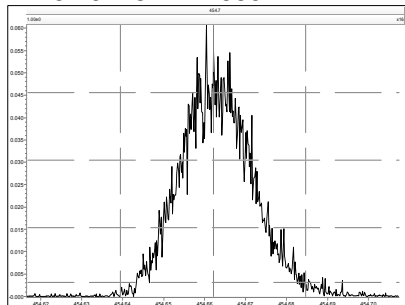
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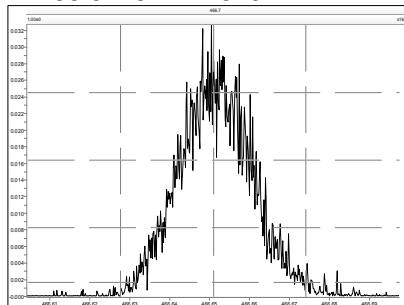
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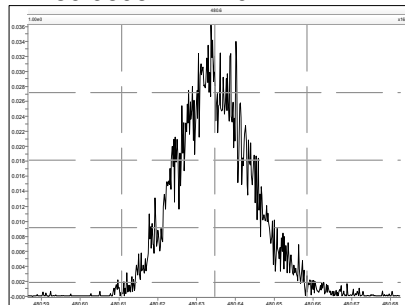
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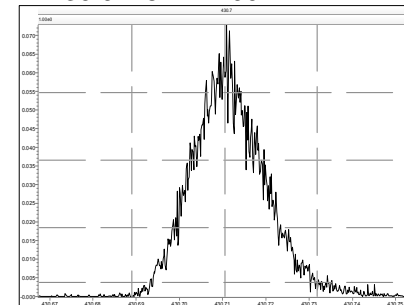
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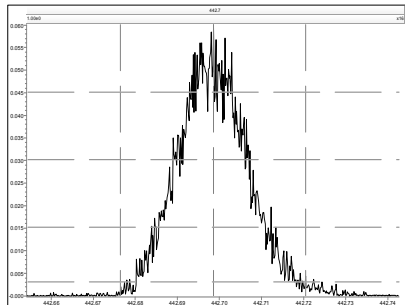
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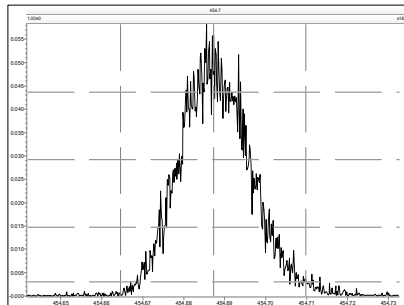
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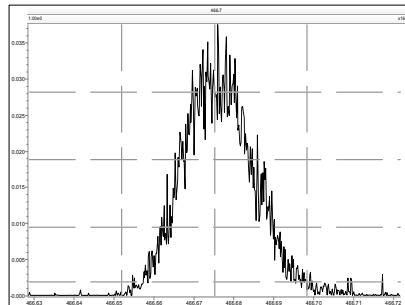
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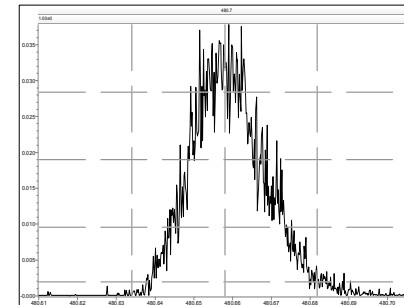
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M 466.9728 R 11628



M 480.9696 R 12053



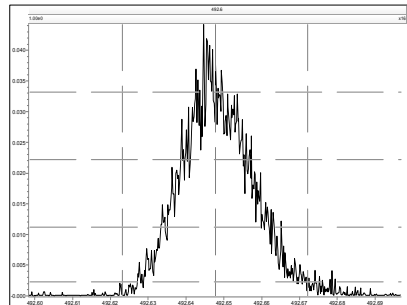
## Resolution Check Report

MassLynx 4.1 SCN 881

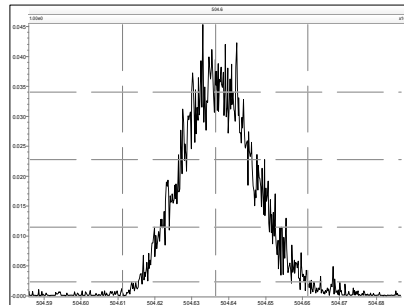
Page 6 of 6

Printed: Friday, December 20, 2013 21:57:28 Eastern Standard Time

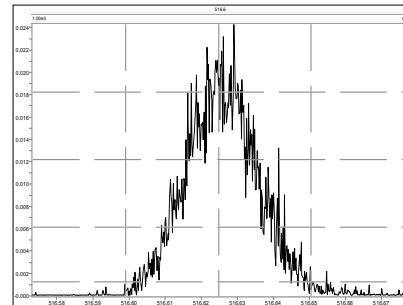
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M 504.9696 R 11467



M 516.9697 R 12194



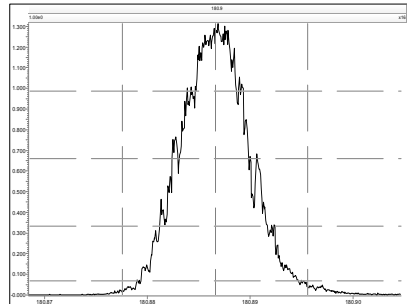


## Resolution Check Report

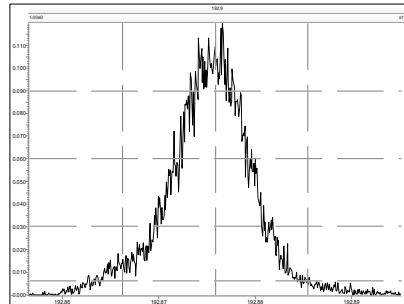
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

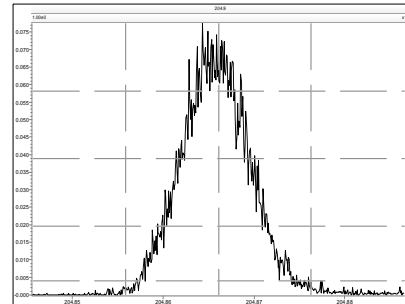
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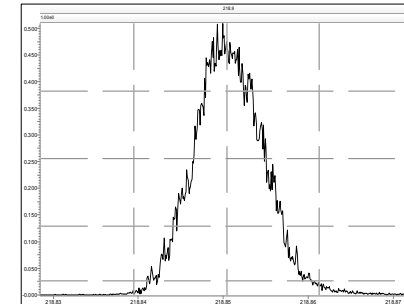
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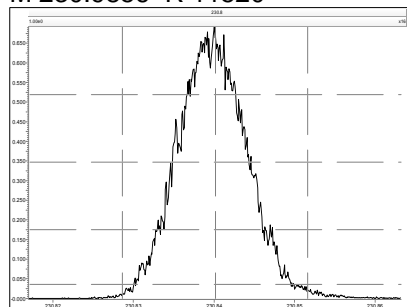
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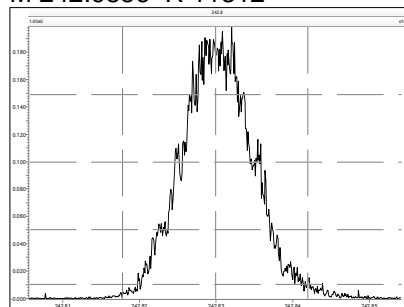
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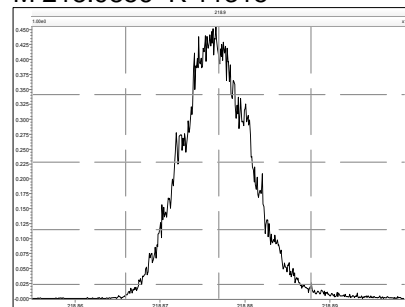
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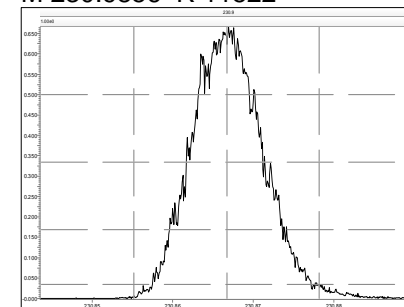
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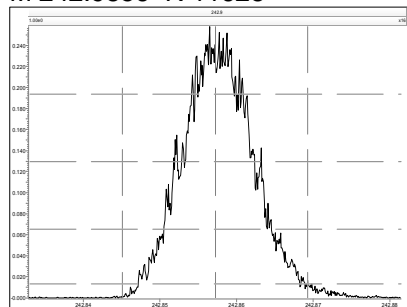
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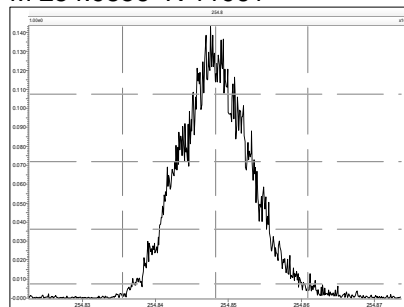
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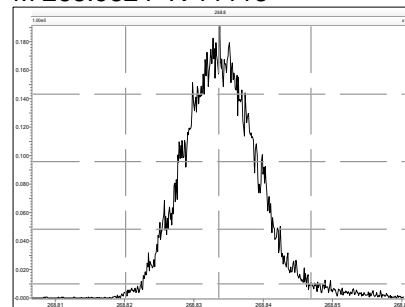
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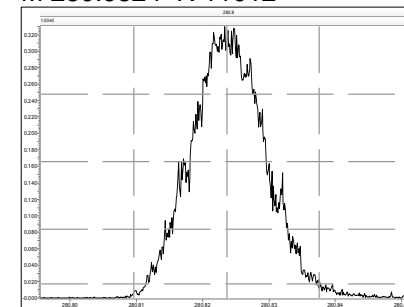
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M 268.9824 R 11118



M 280.9824 R 11012

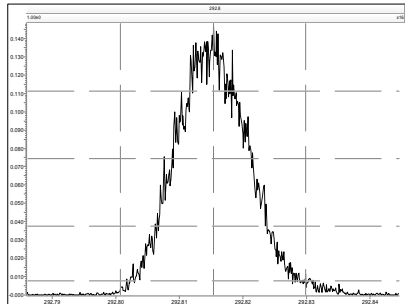


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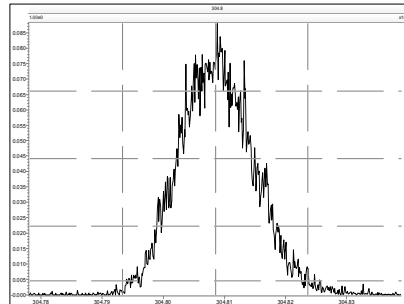
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Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

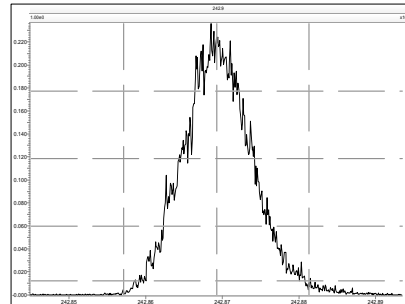
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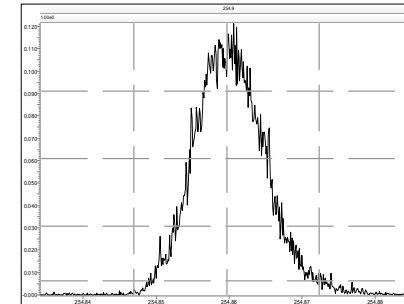
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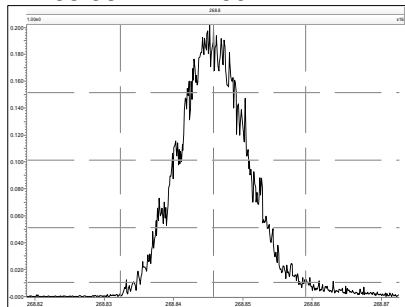
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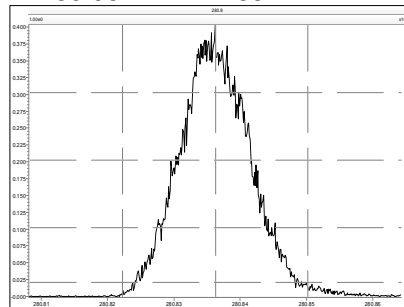
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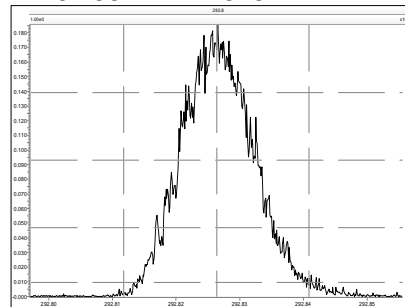
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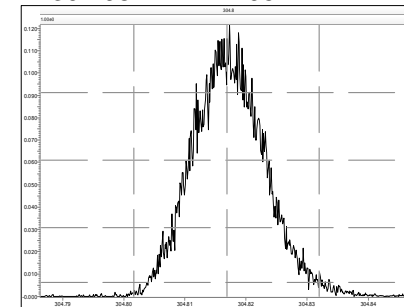
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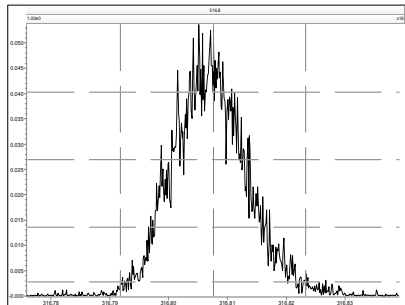
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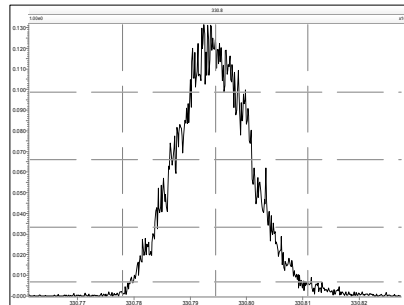
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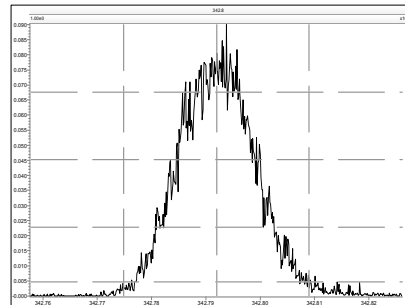
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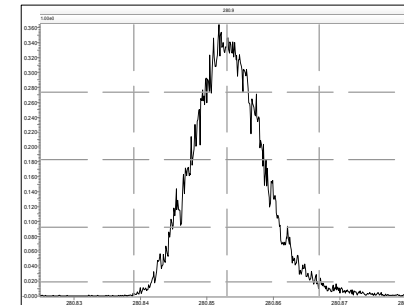
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M 342.9792 R 10706



M 280.9824 R 11548

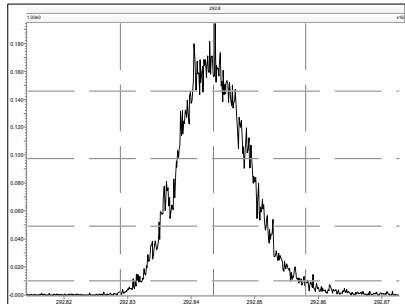


## Resolution Check Report

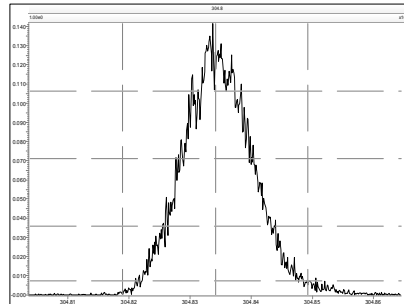
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Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

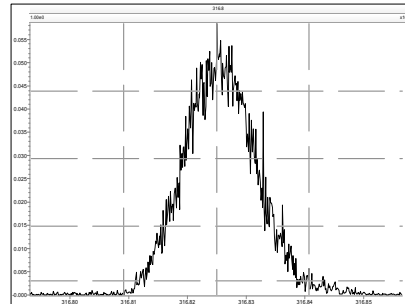
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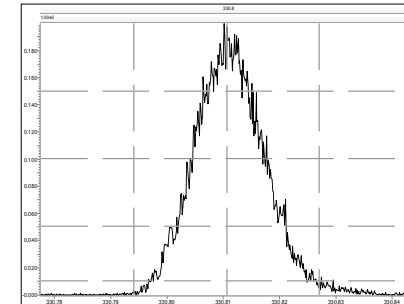
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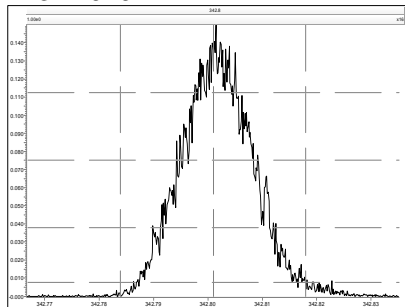
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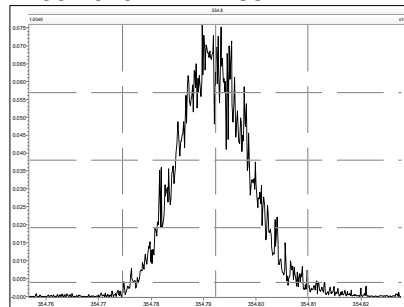
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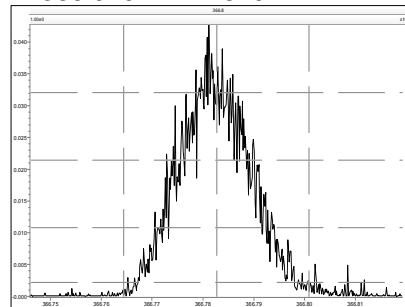
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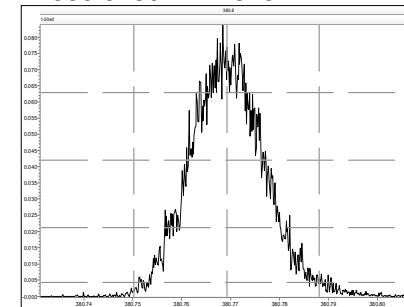
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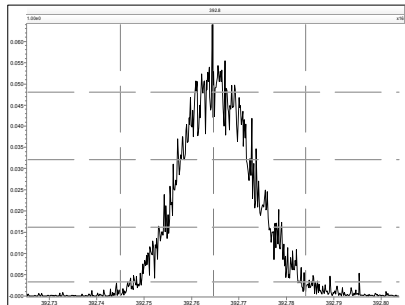
M 366.9792 R 11879



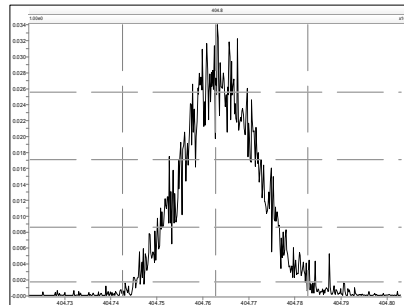
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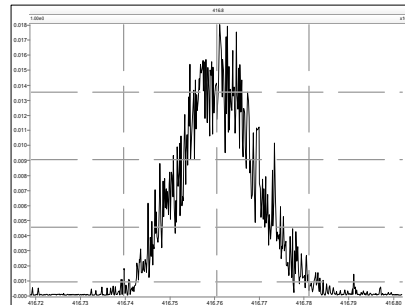
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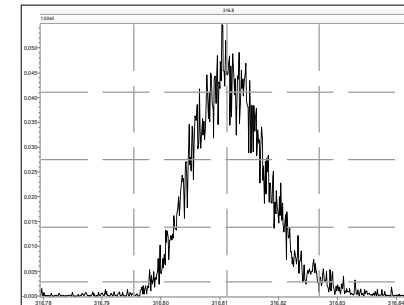
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M 416.9760 R 11908



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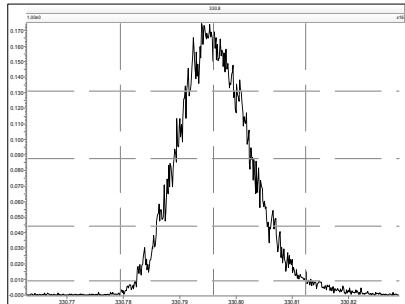


## Resolution Check Report

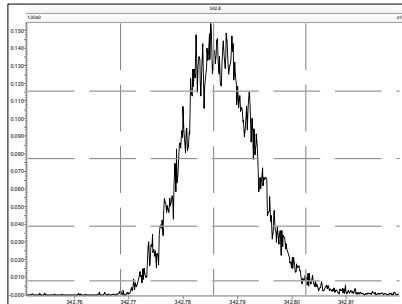
## MassLynx 4.1 SCN 881

Printed: Saturday, December 21, 2013 05:30:04 Eastern Standard Time

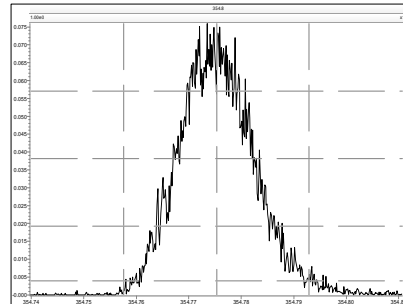
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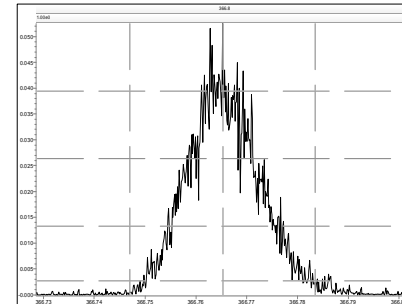
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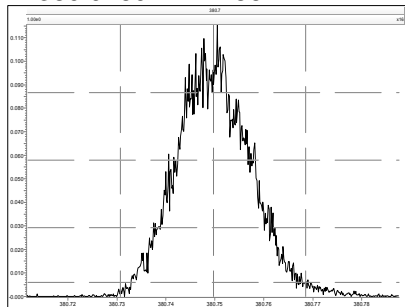
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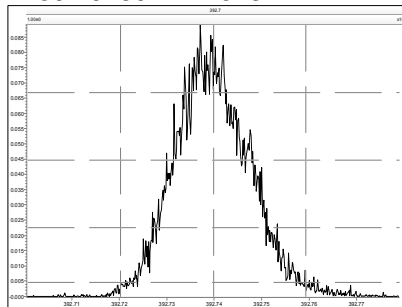
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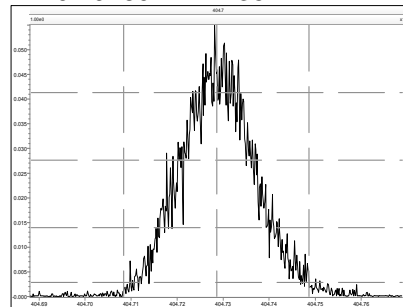
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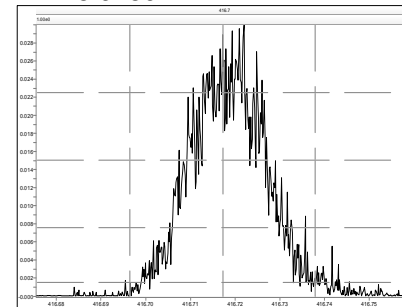
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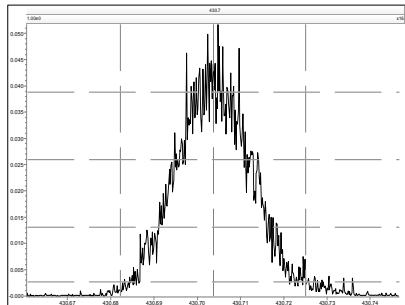
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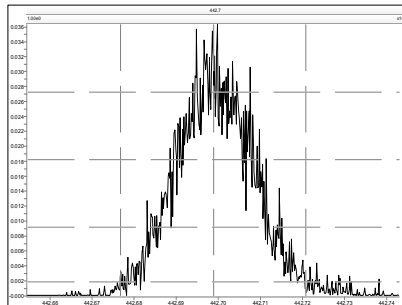
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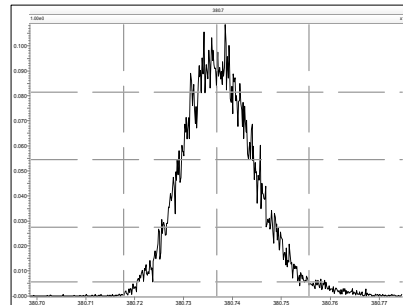
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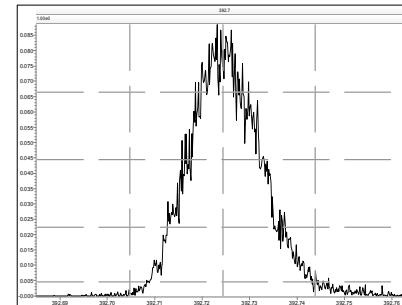
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M 380.9760 R 11287



M 392.9760 R 11340

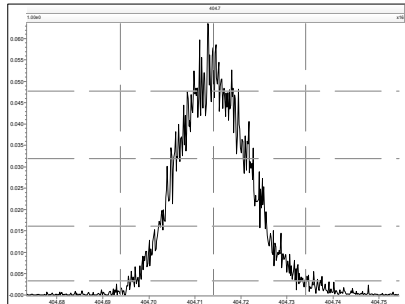


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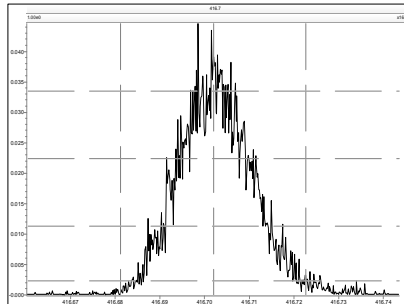
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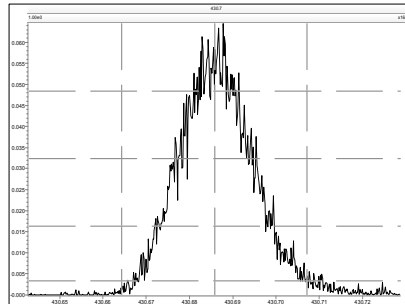
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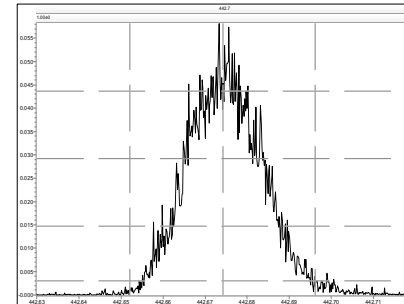
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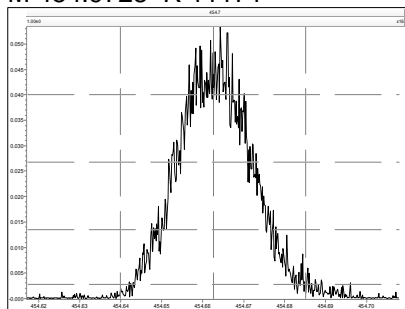
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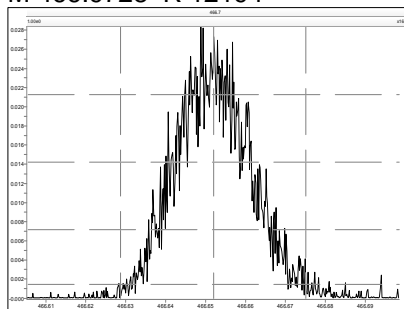
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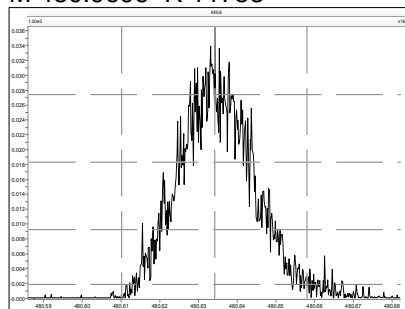
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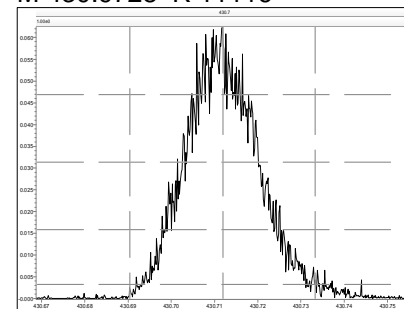
M 466.9728 R 12194



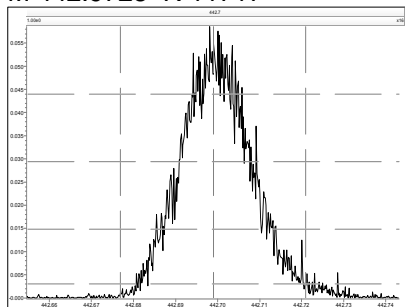
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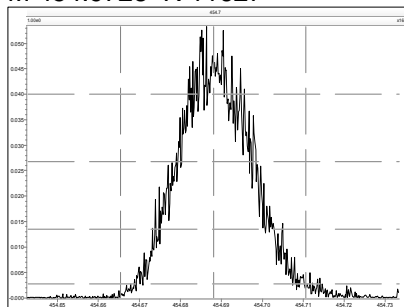
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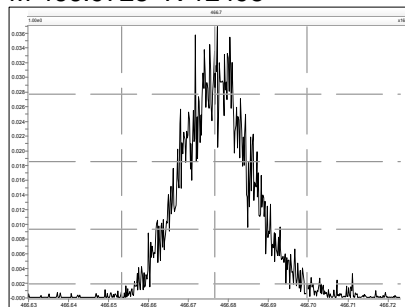
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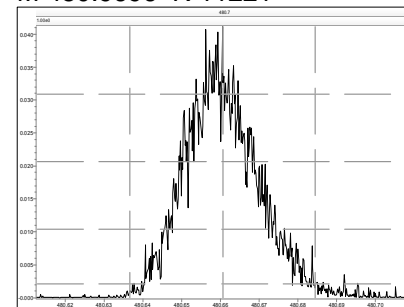
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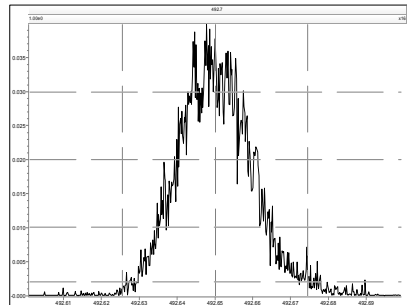
## Resolution Check Report

MassLynx 4.1 SCN 881

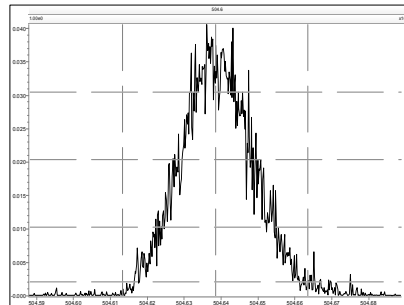
Page 6 of 6

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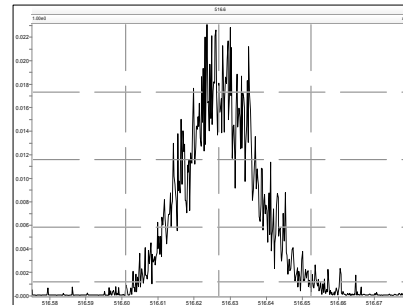
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M 504.9696 R 11338



M 516.9697 R 11848



Lab ID: OPR1\_11906\_PCB

ACQ: 02-Apr-2014 00:23:43 LKB

Wt/Vol: 1 µL

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RPT: 06-Apr-2014 16:10 CM

Stds (pg): JS: 100 ES: 100 CS/SS: 100

Method 1668A

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	32.70		1.0006	1.0006	0	7.41E+06	0.79	1.15	47.5	9.80E+03	0.622
PCB-81 344'5'-TeCB	32.23		1.0005	1.0006	+0.2	7.33E+06	0.78	1.12	50	9.80E+03	0.652
PCB-105 233'44'-PeCB	35.68		1.0007	1.0007	0	5.87E+06	0.60	1.11	47.4	6.14E+03	0.536
PCB-114 2344'5'-PeCB	35.14		1.0006	1.0007	+0.2	6.32E+06	0.62	1.20	47.3	6.14E+03	0.481
PCB-118 23'44'5'-PeCB	34.67		1.0007	1.0006	-0.2	6.11E+06	0.61	1.19	46.3	6.14E+03	0.489
PCB-123 23'44'5'-PeCB	34.39		1.0007	1.0006	-0.2	6.29E+06	0.61	1.21	46.4	6.14E+03	0.467
PCB-126 33'44'5'-PeCB	38.29		1.0005	1.0005	0	5.42E+06	0.62	1.11	51.4	2.84E+03	0.296
PCB-156/157 ...-HxCB	40.83	C	1.0005	1.0005	0	9.39E+06	1.21	1.10	94.1	3.27E+03	0.464
PCB-167 23'44'55'-HxCB	39.85		1.0006	1.0006	0	5.30E+06	1.21	1.16	46.6	3.27E+03	0.306
PCB-169 33'44'55'-HxCB	43.55		1.0004	1.0004	0	4.29E+06	1.28	1.12	45.8	3.27E+03	0.354
PCB-189 233'44'55'-HpCB	45.67		1.0004	1.0004	0	4.32E+06	1.08	1.07	49.6	2.40E+03	0.296
PCB-209 DeCB	50.72		1.0000	1.0004	+1.2	2.72E+06	1.19	1.11	47.2	1.24E+03	0.237
ES PCB-1	11.84		0.7244	0.7247	+0.2	2.01E+07	3.40	1.19	91.6 %	15%	140%
ES PCB-3	14.12		0.8640	0.8643	+0.3	1.80E+07	3.49	1.09	89.9 %	15%	140%
ES PCB-4	14.36		0.8793	0.8793	0	1.01E+07	1.65	0.52	105 %	30%	140%
ES PCB-15	20.06		1.2279	1.2281	+0.2	1.96E+07	1.59	1.04	103 %	30%	140%
ES PCB-19	17.43		1.0674	1.0672	-0.2	8.92E+06	1.07	0.51	95.8 %	30%	140%
ES PCB-37	26.37		1.0793	1.0795	+0.3	1.57E+07	1.19	1.66	93 %	30%	140%
ES PCB-54	20.33		0.8322	0.8323	+0.1	8.98E+06	0.77	0.86	103 %	30%	140%
ES PCB-77	32.68		1.3381	1.3382	+0.2	1.36E+07	0.79	1.38	96.5 %	30%	140%
ES PCB-81	32.21		1.3186	1.3186	0	1.31E+07	0.82	1.37	94.3 %	30%	140%
ES PCB-104	25.29		0.8317	0.8318	+0.2	8.68E+06	1.59	0.80	117 %	30%	140%
ES PCB-105	35.66		1.1729	1.1728	-0.2	1.11E+07	1.61	1.20	100 %	30%	140%
ES PCB-114	35.12		1.1551	1.1550	-0.2	1.11E+07	1.57	1.22	98.6 %	30%	140%
ES PCB-118	34.65		1.1398	1.1397	-0.2	1.11E+07	1.61	1.16	104 %	30%	140%
ES PCB-123	34.37		1.1306	1.1305	-0.2	1.12E+07	1.56	1.19	102 %	30%	140%
ES PCB-126	38.27		1.2588	1.2588	0	9.54E+06	1.63	1.03	100 %	30%	140%
ES PCB-153	36.23		0.9715	0.9715	0	7.97E+06	1.29	1.11	98.4 %	30%	140%
ES PCB-155	30.23		0.8106	0.8106	0	1.11E+07	1.27	1.59	95.3 %	30%	140%
ES PCB-156/157	40.81		1.0943	1.0944	+0.2	1.82E+07	1.26	1.60	77.6 %	30%	140%
ES PCB-167	39.83		1.0679	1.0679	0	9.79E+06	1.29	1.67	80.1 %	30%	140%
ES PCB-169	43.53		1.1671	1.1672	+0.3	8.33E+06	1.25	1.56	73.1 %	30%	140%
ES PCB-170	43.04		0.9078	0.9078	0	5.37E+06	1.13	0.95	95.9 %	30%	140%
ES PCB-180	41.97		0.8852	0.8853	+0.3	6.79E+06	1.07	1.14	102 %	30%	140%
ES PCB-188	35.11		0.7404	0.7405	+0.2	7.72E+06	1.10	0.94	112 %	30%	140%
ES PCB-189	45.65		0.9628	0.9628	0	8.11E+06	1.01	1.58	99.8 %	30%	140%
ES PCB-202	39.64		0.8361	0.8361	0	7.04E+06	0.92	0.97	99.1 %	30%	140%
ES PCB-205	47.81		1.0084	1.0085	+0.3	5.75E+06	0.85	1.24	90.1 %	30%	140%
ES PCB-206	49.27		1.0393	1.0393	0	4.06E+06	0.84	0.83	95.4 %	30%	140%
ES PCB-208	45.27		0.9547	0.9547	0	6.46E+06	0.80	1.17	107 %	30%	140%
ES PCB-209	50.69		1.0692	1.0693	+0.3	5.18E+06	1.17	1.11	90.8 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	22.81		0.9337	0.9338	+0.1	1.61E+07	1.15	1.11	92.1 %	40%	125%
SS PCB-111	32.69		1.0754	1.0753	-0.2	1.14E+07	1.57	1.03	98.5 %	40%	125%
SS PCB-178	37.67		1.0101	1.0100	-0.2	4.74E+06	1.13	0.62	99.1 %	40%	125%
CS PCB-28	22.81		0.9337	0.9338	+0.1	1.61E+07	1.15	1.85	85.7 %	40%	125%
CS PCB-111	32.69		1.0754	1.0753	-0.2	1.14E+07	1.57	1.22	101 %	40%	125%
CS PCB-178	37.67		1.0101	1.0100	-0.2	4.74E+06	1.13	0.58	111 %	40%	125%
JS PCB-9	16.33					1.84E+07	1.57				
JS PCB-52	24.43					1.02E+07	0.82				
JS PCB-101	30.40					9.24E+06	1.59				
JS PCB-138	37.29					7.33E+06	1.33				
JS PCB-194	47.41					5.14E+06	0.89				
<b>Totals</b>						<b>NON-EMPC</b>	<b>EMPC</b>	<b>DL</b>			
Mono-CBs						160	160	0.189			
Di-CBs						560	560	0.57			
Tri-CBs						1,130	1,130	0.609			
Tetra-CBs						2,010	2,010	0.413			
Penta-CBs						2,110	2,110	0.403			
Hexa-CBs						1,990	1,990	0.306			
Hepta-CBs						1,150	1,150	0.402			
Octa-CBs						572	572	0.272			
Nona-CBs						143	143	0.504			
PCB-1 2-MoCB	11.85		1.0011	1.0011	0	1.06E+07	3.28	0.95	55.2	4.79E+03	0.168
PCB-2 3-MoCB	13.95		0.9880	0.9881	+0.1	1.04E+07	3.26	1.18	49.2	4.79E+03	0.179
PCB-3 4-MoCB	14.13		1.0009	1.0010	+0.1	1.02E+07	3.30	1.01	56.1	4.79E+03	0.209
PCB-4 22'-DiCB	14.38		1.0011	1.0011	0	5.67E+06	1.56	1.23	45.6	1.13E+04	0.657
PCB-10 26'-DiCB	14.56		1.0135	1.0136	+0.1	9.43E+06	1.56	1.92	48.8	1.13E+04	0.423
PCB-9 25'-DiCB	16.35		1.0010	1.0010	0	8.70E+06	1.60	0.97	45.6	1.05E+04	0.506
PCB-7 24'-DiCB	16.51		1.0111	1.0111	0	9.95E+06	1.60	1.11	45.5	1.05E+04	0.441
PCB-6 23'-DiCB	16.74		1.0250	1.0250	0	9.38E+06	1.64	1.04	46.1	1.05E+04	0.474
PCB-5 23'-DiCB	17.04		1.0435	1.0434	-0.1	9.42E+06	1.61	1.04	45.9	1.05E+04	0.47
PCB-8 24'-DiCB	17.16		1.0507	1.0507	0	9.63E+06	1.59	1.07	45.9	1.05E+04	0.46
PCB-14 35'-DiCB	18.71		0.9331	0.9330	-0.1	1.13E+07	1.62	1.24	46.5	1.05E+04	0.398
PCB-11 33'-DiCB	19.49		0.9720	0.9720	0	9.62E+06	1.63	1.06	46.1	1.05E+04	0.463
PCB-13/12 34' /34'-DiCB	19.79	C	0.9866	0.9866	0	1.95E+07	1.65	1.07	93.1	1.05E+04	0.46
PCB-15 44'-DiCB	20.07		1.0008	1.0007	-0.1	1.03E+07	1.62	1.02	51.4	1.05E+04	0.482
PCB-19 22'6-TrCB	17.45		1.0010	1.0010	0	4.81E+06	1.05	1.15	47	7.30E+03	0.574
PCB-30/18 246/22'5-TrCB	19.20	C	1.1017	1.1015	-0.2	1.35E+07	1.05	1.55	98.1	7.30E+03	0.426
PCB-17 22'4-TrCB	19.60		1.1247	1.1245	-0.2	5.82E+06	1.03	1.30	50.1	7.30E+03	0.505
PCB-27 23'6-TrCB	19.79		1.1357	1.1356	-0.1	8.08E+06	1.07	1.80	50.4	7.30E+03	0.366
PCB-24 236-TrCB	19.93		1.1435	1.1433	-0.2	7.79E+06	1.06	1.77	49.4	7.30E+03	0.372
PCB-16 22'3-TrCB	20.03		1.1489	1.1489	0	4.33E+06	1.05	0.95	51	7.30E+03	0.691



Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	20.50		1.1763	1.1762	-0.1	8.56E+06	1.03	1.93	49.7	7.30E+03	0.341
PCB-34 23'5'-TrCB	21.65		0.8211	0.8210	-0.1	8.65E+06	1.03	1.24	44.6	1.08E+04	0.562
PCB-23 235-TrCB	21.80		0.8268	0.8267	-0.1	8.91E+06	1.02	1.25	45.2	1.08E+04	0.554
PCB-26/29 23'5'/245-TrCB	22.08	C	0.8375	0.8375	0	1.81E+07	1.01	1.27	90.6	1.08E+04	0.547
PCB-25 23'4-TrCB	22.28		0.8451	0.8450	-0.1	9.46E+06	0.99	1.31	46.1	1.08E+04	0.532
PCB-31 24'5-TrCB	22.56		0.8556	0.8556	0	9.37E+06	0.99	1.32	45	1.08E+04	0.524
PCB-28/20 244'/233'-TrCB	22.84	C	0.8663	0.8663	0	1.75E+07	0.99	1.23	90.5	1.08E+04	0.564
PCB-21/33 234/23'4'-TrCB	23.02	C	0.8732	0.8731	-0.1	1.86E+07	1.00	1.29	92	1.08E+04	0.54
PCB-22 234'-TrCB	23.40		0.8875	0.8874	-0.1	8.67E+06	1.00	1.19	46.5	1.08E+04	0.585
PCB-36 33'5-TrCB	24.78		0.9397	0.9397	0	9.43E+06	1.00	1.34	44.8	1.08E+04	0.518
PCB-39 34'5-TrCB	25.10		0.9520	0.9520	0	9.71E+06	1.04	1.34	46.1	1.08E+04	0.518
PCB-38 345-TrCB	25.63		0.9721	0.9720	-0.2	8.79E+06	1.02	1.21	46.4	1.08E+04	0.576
PCB-35 33'4-TrCB	26.03		0.9871	0.9870	-0.2	8.42E+06	1.01	1.16	46.1	1.08E+04	0.598
PCB-37 344'-TrCB	26.39		1.0008	1.0008	0	8.91E+06	1.01	1.08	52.6	1.08E+04	0.644
PCB-54 22'66'-TeCB	20.35		1.0010	1.0010	0	5.60E+06	0.80	1.35	46.1	2.91E+03	0.213
PCB-50/53 22'46/22'56'-TeCB	22.33	C	0.9141	0.9141	0	1.04E+07	0.78	0.85	92.9	3.29E+03	0.287
PCB-45 22'36-TeCB	22.91		0.9381	0.9381	0	4.44E+06	0.78	0.70	48.2	3.29E+03	0.348
PCB-51 22'46'-TeCB	22.99		0.9410	0.9411	+0.1	5.36E+06	0.78	0.90	45.5	3.29E+03	0.272
PCB-46 22'36'-TeCB	23.20		0.9497	0.9497	0	4.20E+06	0.83	0.68	47.1	3.29E+03	0.36
PCB-52 22'55'-TeCB	24.45		1.0009	1.0009	0	5.08E+06	0.78	0.83	46.5	3.29E+03	0.293
PCB-73 23'5'6-TeCB	24.57		1.0062	1.0061	-0.1	6.87E+06	0.77	1.16	45.3	3.29E+03	0.211
PCB-43 22'35-TeCB	24.67		1.0102	1.0100	-0.3	4.52E+06	0.81	0.68	50.7	3.29E+03	0.36
PCB-69/49 23'46/22'45'-TeCB	24.87	C	1.0181	1.0181	0	1.28E+07	0.79	1.03	94.6	3.29E+03	0.237
PCB-48 22'45-TeCB	25.15		1.0296	1.0296	0	5.24E+06	0.79	0.85	47.2	3.29E+03	0.289
PCB-44/47/65 ...-TeCB	25.37	C	1.0385	1.0385	0	1.69E+07	0.80	0.90	143	3.29E+03	0.271
PCB-59/62/75 ...-TeCB	25.64	C	1.0498	1.0498	0	2.19E+07	0.79	1.18	142	3.29E+03	0.208
PCB-42 22'34'-TeCB	25.81		1.0566	1.0565	-0.2	4.89E+06	0.80	0.76	48.7	3.29E+03	0.32
PCB-41 22'34-TeCB	26.14		1.0702	1.0702	0	4.38E+06	0.77	0.67	49.7	3.29E+03	0.364
PCB-71/40 23'4'6/22'33'-TeCB	26.23	C	1.0741	1.0741	0	1.10E+07	0.78	0.87	96.1	3.29E+03	0.281
PCB-64 234'6-TeCB	26.43		1.0823	1.0822	-0.2	7.87E+06	0.78	1.24	48.3	3.29E+03	0.197
PCB-72 23'55'-TeCB	27.15		0.8429	0.8429	0	7.67E+06	0.80	1.25	47	9.80E+03	0.585
PCB-68 23'45'-TeCB	27.40		0.8509	0.8508	-0.2	8.29E+06	0.81	1.32	48.1	9.80E+03	0.554
PCB-57 233'5-TeCB	27.78		0.8624	0.8624	0	7.50E+06	0.81	1.19	48.1	9.80E+03	0.612
PCB-58 233'5'-TeCB	27.98		0.8687	0.8688	+0.2	7.69E+06	0.81	1.21	48.3	9.80E+03	0.601
PCB-67 23'45-TeCB	28.14		0.8736	0.8736	0	7.99E+06	0.80	1.29	47.4	9.80E+03	0.566
PCB-63 234'5-TeCB	28.36		0.8806	0.8805	-0.2	8.31E+06	0.79	1.34	47.2	9.80E+03	0.543
PCB-61/70/74/76 ...-TeCB	28.65	C	0.8897	0.8896	-0.2	3.06E+07	0.80	1.22	191	9.80E+03	0.598
PCB-66 23'44'-TeCB	28.94		0.8984	0.8984	0	7.40E+06	0.78	1.16	48.8	9.80E+03	0.63
PCB-55 233'4-TeCB	29.08		0.9030	0.9030	0	7.41E+06	0.79	1.15	49	9.80E+03	0.632
PCB-56 233'4'-TeCB	29.52		0.9165	0.9165	0	7.35E+06	0.81	1.15	49	9.80E+03	0.637
PCB-60 2344'-TeCB	29.71		0.9225	0.9225	0	7.37E+06	0.80	1.16	48.3	9.80E+03	0.626
PCB-80 33'55'-TeCB	30.03		0.9326	0.9325	-0.2	8.61E+06	0.81	1.35	48.6	9.80E+03	0.54
PCB-79 33'45'-TeCB	31.36		0.9737	0.9737	0	8.62E+06	0.80	1.40	47	9.80E+03	0.521
PCB-78 33'45-TeCB	31.85		0.9888	0.9888	0	7.06E+06	0.79	1.12	48	9.80E+03	0.649
PCB-104 22'466'-PeCB	25.31		1.0009	1.0009	0	5.55E+06	0.64	1.43	44.6	1.97E+03	0.149
PCB-96 22'366'-PeCB	25.63		1.0135	1.0135	0	4.91E+06	0.64	1.19	47.6	1.97E+03	0.179
PCB-103 22'45'6-PeCB	27.32		0.8985	0.8985	0	4.81E+06	0.62	0.96	44.9	6.14E+03	0.591
PCB-94 22'356'-PeCB	27.51		0.9048	0.9048	0	4.12E+06	0.62	0.80	45.9	6.14E+03	0.705

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	27.89		0.9173	0.9173	0	4.43E+06	0.62	0.87	45.5	6.14E+03	0.651
PCB-100/93 22'44'6/22'356-PeCB	28.10	C	0.9243	0.9242	-0.2	8.61E+06	0.61	0.87	88.1	6.14E+03	0.648
PCB-102 22'456'-PeCB	28.21		0.9278	0.9279	+0.2	5.13E+06	0.62	0.86	53.4	6.14E+03	0.659
PCB-98 22'34'6'-PeCB	28.28		0.9301	0.9302	+0.2	4.11E+06	0.64	0.89	41.4	6.14E+03	0.639
PCB-88 22'346-PeCB	28.58		0.9402	0.9400	-0.3	3.64E+06	0.62	0.81	40.3	6.14E+03	0.7
PCB-91 22'34'6-PeCB	28.64		0.9423	0.9421	-0.3	5.07E+06	0.61	0.91	49.6	6.14E+03	0.62
PCB-84 22'33'6-PeCB	28.84		0.9486	0.9486	0	3.71E+06	0.63	0.72	45.7	6.14E+03	0.782
PCB-89 22'346'-PeCB	29.26		0.9623	0.9623	0	4.01E+06	0.63	0.77	46.4	6.14E+03	0.733
PCB-121 23'45'6-PeCB	29.60		0.9735	0.9735	0	6.25E+06	0.60	1.22	45.6	6.14E+03	0.462
PCB-92 22'355'-PeCB	29.92		0.9840	0.9840	0	4.28E+06	0.61	0.83	46.3	6.14E+03	0.686
PCB-113/90/101 ...-PeCB	30.40	C	0.9999	0.9999	0	1.49E+07	0.61	0.97	136	6.14E+03	0.581
PCB-83 22'33'5-PeCB	30.84		1.0144	1.0143	-0.2	3.66E+06	0.62	0.73	44.8	6.14E+03	0.776
PCB-99 22'44'5-PeCB	30.93		1.0175	1.0173	-0.4	4.62E+06	0.62	0.91	45.5	6.14E+03	0.624
PCB-112 233'56-PeCB	31.03		1.0208	1.0207	-0.2	6.21E+06	0.62	1.17	47.2	6.14E+03	0.482
PCB-108/119/86/97/125...-PeCB	31.38	C	1.0321	1.0321	0	3.00E+07	0.61	0.99	270	6.14E+03	0.571
PCB-117 234'56-PeCB	31.91		1.0496	1.0497	+0.2	5.94E+06	0.61	1.08	49.1	6.14E+03	0.524
PCB-116/85 23456/22'344'-PeCB	32.00	C	1.0527	1.0527	0	9.48E+06	0.63	0.99	85.2	6.14E+03	0.57
PCB-110 233'4'6-PeCB	32.12		1.0566	1.0564	-0.4	5.68E+06	0.61	1.13	44.9	6.14E+03	0.502
PCB-115 2344'6-PeCB	32.20		1.0594	1.0592	-0.4	6.36E+06	0.62	1.18	48	6.14E+03	0.479
PCB-82 22'33'4-PeCB	32.40		1.0659	1.0658	-0.2	3.56E+06	0.61	0.69	45.7	6.14E+03	0.814
PCB-111 233'55'-PeCB	32.71		1.0761	1.0760	-0.2	6.41E+06	0.63	1.23	46.7	6.14E+03	0.461
PCB-120 23'455'-PeCB	33.11		1.0892	1.0891	-0.2	6.33E+06	0.61	1.23	45.8	6.14E+03	0.458
PCB-107/124 ...-PeCB	34.08	C	0.9915	0.9915	0	1.14E+07	0.62	1.11	91.7	6.14E+03	0.509
PCB-109 233'46-PeCB	34.28		0.9975	0.9974	-0.2	6.33E+06	0.61	1.28	44.2	6.14E+03	0.443
PCB-106 233'45-PeCB	34.50		1.0039	1.0039	0	5.88E+06	0.63	1.11	47.3	6.14E+03	0.509
PCB-122 233'4'5'-PeCB	34.97		1.0091	1.0091	0	5.28E+06	0.62	1.01	47.1	6.14E+03	0.573
PCB-127 33'455'-PeCB	36.91		1.0351	1.0352	+0.2	5.80E+06	0.63	1.11	47	6.14E+03	0.537
PCB-155 22'44'66'-HxCB	30.25		1.0007	1.0007	0	6.14E+06	1.28	1.26	43.9	1.46E+03	0.0983
PCB-152 22'3566'-HxCB	30.42		1.0062	1.0062	0	5.87E+06	1.29	1.08	49.1	1.46E+03	0.115
PCB-150 22'34'66'-HxCB	30.56		1.0108	1.0109	+0.2	5.88E+06	1.26	1.11	47.6	1.46E+03	0.111
PCB-136 22'33'66'-HxCB	30.87		1.0210	1.0210	0	5.50E+06	1.27	1.02	48.8	1.46E+03	0.122
PCB-145 22'3466'-HxCB	31.13		1.0299	1.0299	0	5.59E+06	1.27	1.04	48.4	1.46E+03	0.119
PCB-148 22'34'56'-HxCB	32.40		1.0719	1.0719	0	4.16E+06	1.26	1.10	47.5	1.46E+03	0.176
PCB-151/135 ...-HxCB	32.93	C	1.0891	1.0891	0	8.02E+06	1.28	1.05	95.5	1.46E+03	0.184
PCB-154 22'44'56'-HxCB	33.13		1.0960	1.0960	0	4.61E+06	1.25	1.24	46.5	1.46E+03	0.156
PCB-144 22'345'6-HxCB	33.40		1.1048	1.1047	-0.2	4.21E+06	1.26	1.09	48.6	1.46E+03	0.179
PCB-147/149 ...-HxCB	33.70	C	1.1148	1.1147	-0.2	8.22E+06	1.25	1.09	94.6	1.46E+03	0.178
PCB-134 22'33'56-HxCB	33.88		1.1205	1.1206	+0.2	3.34E+06	1.29	0.79	53.4	1.46E+03	0.247
PCB-143 22'3456'-HxCB	33.96		1.1231	1.1232	+0.2	3.90E+06	1.27	1.08	45.2	1.46E+03	0.179
PCB-139/140 ...-HxCB	34.22	C	1.1319	1.1319	0	8.31E+06	1.29	1.11	94	1.46E+03	0.175
PCB-131 22'33'46-HxCB	34.39		1.1377	1.1376	-0.2	3.62E+06	1.27	0.93	48.6	1.46E+03	0.208
PCB-142 22'3456-HxCB	34.54		1.1425	1.1424	-0.2	3.55E+06	1.30	0.92	48.6	1.46E+03	0.212
PCB-132 22'33'46'-HxCB	34.77		1.1502	1.1502	0	3.62E+06	1.27	0.96	47.5	1.46E+03	0.203
PCB-133 22'33'55'-HxCB	35.17		1.1636	1.1635	-0.2	3.90E+06	1.26	1.02	47.8	1.46E+03	0.19
PCB-165 233'55'6-HxCB	35.52		0.9523	0.9523	0	5.03E+06	1.29	1.32	47.9	1.46E+03	0.147
PCB-146 22'34'55'-HxCB	35.73		0.9580	0.9580	0	4.28E+06	1.21	1.14	47.1	1.46E+03	0.17
PCB-161 233'45'6-HxCB	35.85		0.9612	0.9612	0	5.39E+06	1.29	1.41	48	1.46E+03	0.137
PCB-153/168 ...-HxCB	36.27	C	0.9727	0.9727	0	1.04E+07	1.25	1.40	93.7	1.46E+03	0.139

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22' 3455' -HxCB	36.42		0.9766	0.9765	-0.2	3.89E+06	1.27	1.02	48	1.46E+03	0.191
PCB-130 22' 33' 45' -HxCB	36.77		0.9859	0.9859	0	3.43E+06	1.22	0.90	47.9	1.46E+03	0.216
PCB-137 22' 344' 5'-HxCB	36.96		0.9912	0.9911	-0.2	4.02E+06	1.27	1.14	44.4	1.46E+03	0.171
PCB-164 233' 4' 5' 6'-HxCB	37.05		0.9934	0.9933	-0.2	5.52E+06	1.29	1.38	50.1	1.46E+03	0.14
PCB-163/138/129 ... -HxCB	37.34	C	1.0011	1.0011	0	1.26E+07	1.27	1.13	140	1.46E+03	0.172
PCB-160 233' 456-HxCB	37.47		1.0049	1.0048	-0.2	5.01E+06	1.28	1.29	48.6	1.46E+03	0.15
PCB-158 233' 44' 6'-HxCB	37.66		1.0097	1.0097	0	5.74E+06	1.30	1.52	47.5	1.46E+03	0.128
PCB-128/166 ... -HxCB	38.39	C	0.9639	0.9640	+0.2	8.02E+06	1.21	0.88	92.6	3.27E+03	0.402
PCB-159 233' 455' -HxCB	39.20		0.9843	0.9843	0	4.91E+06	1.20	1.07	46.7	3.27E+03	0.332
PCB-162 233' 4' 55' -HxCB	39.44		0.9903	0.9903	0	5.07E+06	1.21	1.09	47.8	3.27E+03	0.328
PCB-188 22' 34' 566' -HpCB	35.13		1.0006	1.0006	0	4.31E+06	1.05	1.27	43.9	1.34E+03	0.14
PCB-179 22' 33' 566' -HpCB	35.41		1.0087	1.0087	0	4.13E+06	1.10	1.07	50.1	1.34E+03	0.167
PCB-184 22' 344' 66' -HpCB	35.87		1.0217	1.0217	0	3.91E+06	1.06	1.03	49.2	1.34E+03	0.173
PCB-176 22' 33' 466' -HpCB	36.16		1.0302	1.0301	-0.2	4.33E+06	1.03	1.14	49.4	1.34E+03	0.157
PCB-186 22' 34566' -HpCB	36.56		1.0415	1.0415	0	4.00E+06	1.06	1.05	49.1	1.34E+03	0.169
PCB-178 22' 33' 55' 6'-HpCB	37.69		1.0736	1.0736	0	2.82E+06	1.08	0.75	48.5	1.34E+03	0.237
PCB-175 22' 33' 45' 6'-HpCB	38.23		1.0891	1.0891	0	3.64E+06	1.08	1.08	49.6	3.93E+03	0.556
PCB-187 22' 34' 55' 6'-HpCB	38.46		1.0956	1.0956	0	3.75E+06	1.04	1.16	47.8	3.93E+03	0.521
PCB-182 22' 344' 56' -HpCB	38.64		1.1007	1.1006	-0.2	3.91E+06	1.04	1.20	47.8	3.93E+03	0.5
PCB-183 22' 344' 5' 6'-HpCB	38.98		1.1105	1.1104	-0.2	3.77E+06	1.03	1.24	44.9	3.93E+03	0.487
PCB-185 22' 3455' 6'-HpCB	39.07		1.1129	1.1129	0	3.69E+06	1.03	1.04	52.3	3.93E+03	0.578
PCB-174 22' 33' 456' -HpCB	39.18		1.1160	1.1161	+0.2	3.18E+06	1.01	1.00	46.9	3.93E+03	0.603
PCB-177 22' 33' 45' 6' -HpCB	39.56		1.1268	1.1267	-0.2	3.01E+06	1.08	0.93	47.5	3.93E+03	0.644
PCB-181 22' 344' 56'-HpCB	39.90		1.1366	1.1366	0	3.55E+06	1.02	1.08	48.3	3.93E+03	0.556
PCB-171/173 ... -HpCB	40.09	C	1.1419	1.1419	0	6.19E+06	1.07	0.95	96	3.93E+03	0.634
PCB-172 22' 33' 455' -HpCB	41.44		0.9077	0.9077	0	3.19E+06	1.02	0.98	48	3.93E+03	0.614
PCB-192 233' 455' 6'-HpCB	41.68		0.9131	0.9131	0	4.21E+06	1.01	1.30	47.7	3.93E+03	0.463
PCB-180/193 ... -HpCB	41.96	C	0.9191	0.9192	+0.3	7.95E+06	1.07	1.24	94.3	3.93E+03	0.485
PCB-191 233' 44' 5' 6'-HpCB	42.29		0.9264	0.9264	0	4.32E+06	1.02	1.39	45.7	3.93E+03	0.432
PCB-170 22' 33' 44' 5'-HpCB	43.06		0.9433	0.9433	0	2.91E+06	1.05	1.12	48.4	3.93E+03	0.671
PCB-190 233' 44' 56'-HpCB	43.51		0.9531	0.9532	+0.3	4.12E+06	1.03	1.57	48.9	3.93E+03	0.479
PCB-202 22' 33' 55' 66' -OcCB	39.66		1.0005	1.0006	+0.2	3.41E+06	0.91	1.05	46	1.43E+03	0.201
PCB-201 22' 33' 45' 66' -OcCB	40.44		1.0203	1.0203	0	3.73E+06	0.87	1.12	47.5	1.43E+03	0.189
PCB-204 22' 344' 566' -OcCB	41.02		1.0348	1.0349	+0.2	3.55E+06	0.90	1.05	48.1	1.43E+03	0.201
PCB-197 22' 33' 44' 66' -OcCB	41.21		1.0396	1.0397	+0.2	4.00E+06	0.95	1.12	50.7	1.43E+03	0.188
PCB-200 22' 33' 4566' -OcCB	41.31		1.0419	1.0420	+0.2	3.42E+06	0.92	1.06	45.7	1.43E+03	0.199
PCB-198/199 ... -OcCB	43.62	C	1.1005	1.1005	0	4.69E+06	0.92	0.72	93	1.43E+03	0.295
PCB-196 22' 33' 44' 56' -OcCB	44.20		1.1150	1.1150	0	2.50E+06	0.94	0.75	47	1.43E+03	0.28
PCB-203 22' 344' 55' 6'-OcCB	44.37		1.1192	1.1193	+0.3	2.55E+06	0.90	0.77	46.7	1.43E+03	0.273
PCB-195 22' 33' 44' 56'-OcCB	45.49		0.9515	0.9514	-0.3	2.13E+06	0.90	0.73	50.8	1.90E+03	0.5
PCB-194 22' 33' 44' 55' -OcCB	47.43		0.9921	0.9921	0	2.34E+06	0.91	0.81	50.1	1.90E+03	0.448
PCB-205 233' 44' 55' 6'-OcCB	47.83		1.0004	1.0004	0	2.84E+06	0.89	1.06	46.6	1.90E+03	0.343
PCB-208 22' 33' 455' 66' -NoCB	45.29		1.0005	1.0005	0	3.44E+06	0.79	1.12	47.4	2.81E+03	0.39
PCB-207 22' 33' 44' 566' -NoCB	46.07		1.0179	1.0178	-0.3	3.59E+06	0.79	1.15	48.5	2.81E+03	0.382
PCB-206 22' 33' 44' 55' 6'-NoCB	49.29		1.0004	1.0004	0	2.15E+06	0.76	1.11	47.5	2.81E+03	0.617

**METHOD 1668A****PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140402X02 Analysis Date: 02-APR-2014 00:23:43  
 Lab ID: OPR1\_11906\_PCB

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	110	50 - 150	Y
PCB-3 4-MoCB	50	112	50 - 150	Y
PCB-4 22'-DiCB	50	91.2	50 - 150	Y
PCB-15 44'-DiCB	50	103	50 - 150	Y
PCB-19 22'6-TrCB	50	94.1	50 - 150	Y
PCB-37 344'-TrCB	50	105	50 - 150	Y
PCB-54 22'66'-TeCB	50	92.2	50 - 150	Y
PCB-77 33'44'-TeCB	50	94.9	50 - 150	Y
PCB-81 344'5-TeCB	50	100	50 - 150	Y
PCB-104 22'466'-PeCB	50	89.2	50 - 150	Y
PCB-105 233'44'-PeCB	50	94.7	50 - 150	Y
PCB-114 2344'5-PeCB	50	94.7	50 - 150	Y
PCB-118 23'44'5-PeCB	50	92.5	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	92.8	50 - 150	Y
PCB-126 33'44'5-PeCB	50	103	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	87.8	50 - 150	Y
PCB-156/157 ...-HxCB	100	94.1	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	93.1	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	91.6	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	87.9	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	99.3	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	91.9	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	93.2	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	95	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	94.8	50 - 150	Y
PCB-209 DeCB	50	94.5	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,  
 Method 1668A.

Processed: 06 Apr 2014 16:10 Analyst: CM

## METHOD 1668A

## PCB ONGOING PRECISION AND RECOVERY (OPR)

## FORM 8B

Lab Name: SGS Environmental Services  
 Initial Calibration: ICAL: MM7\_PCB\_10292013\_20DEC2013  
 Instrument ID: MM7 GC Column ID:  
 VER Data Filename: 140402X02 Analysis Date: 02-APR-2014 00:23:43  
 Lab ID: OPR1\_11906\_PCB

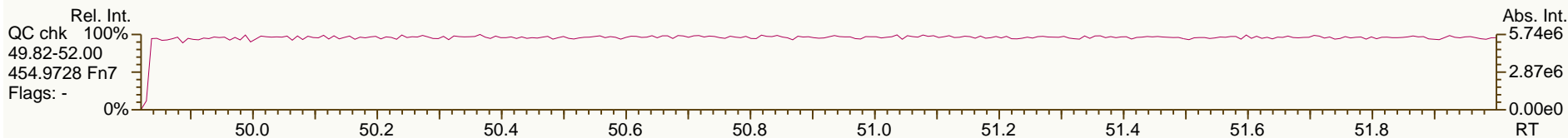
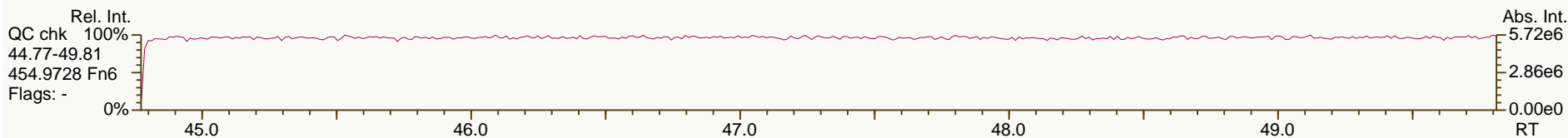
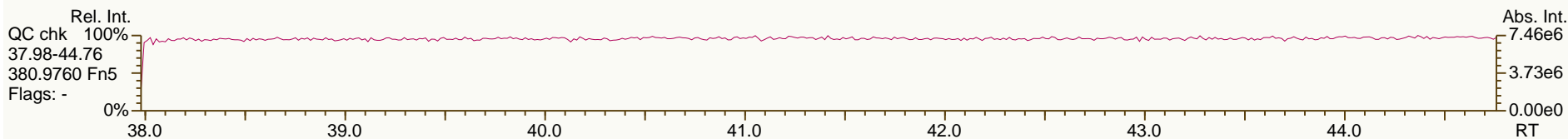
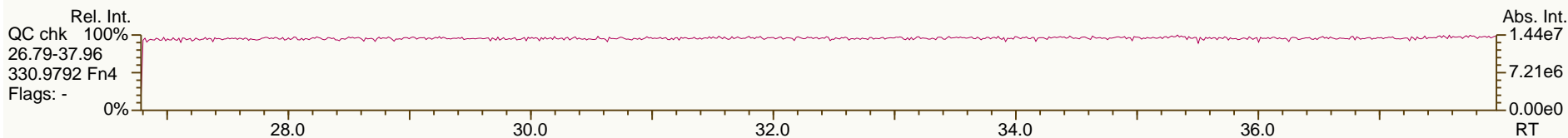
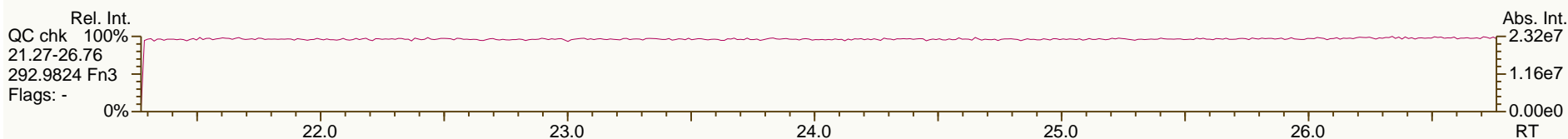
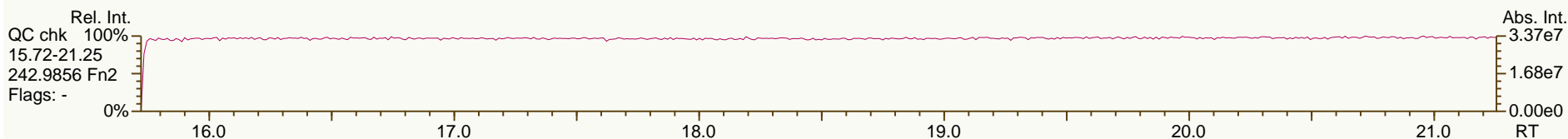
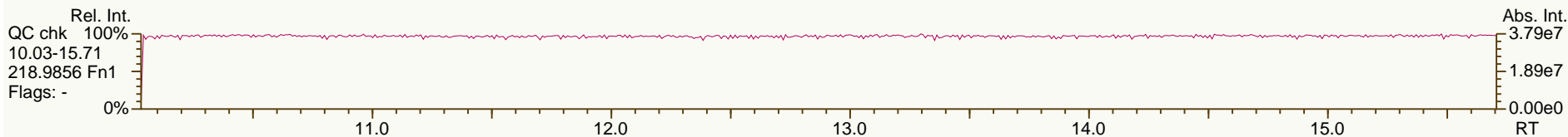
LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	91.6	15	-	140	Y
ES PCB-3	100	89.9	15	-	140	Y
ES PCB-4	100	105	30	-	140	Y
ES PCB-15	100	103	30	-	140	Y
ES PCB-19	100	95.8	30	-	140	Y
ES PCB-37	100	93	30	-	140	Y
ES PCB-54	100	103	30	-	140	Y
ES PCB-77	100	96.5	30	-	140	Y
ES PCB-81	100	94.3	30	-	140	Y
ES PCB-104	100	117	30	-	140	Y
ES PCB-105	100	100	30	-	140	Y
ES PCB-114	100	98.6	30	-	140	Y
ES PCB-118	100	104	30	-	140	Y
ES PCB-123	100	102	30	-	140	Y
ES PCB-126	100	100	30	-	140	Y
ES PCB-153	100	98.4	30	-	140	Y
ES PCB-155	100	95.3	30	-	140	Y
ES PCB-156/157	200	77.6	30	-	140	Y
ES PCB-167	100	80.1	30	-	140	Y
ES PCB-169	100	73.1	30	-	140	Y
ES PCB-170	100	95.9	30	-	140	Y
ES PCB-180	100	102	30	-	140	Y
ES PCB-188	100	112	30	-	140	Y
ES PCB-189	100	99.8	30	-	140	Y
ES PCB-202	100	99.1	30	-	140	Y
ES PCB-205	100	90.1	30	-	140	Y
ES PCB-206	100	95.4	30	-	140	Y
ES PCB-208	100	107	30	-	140	Y
ES PCB-209	100	90.8	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	85.7	40	-	125	Y
CS PCB-111	100	101	40	-	125	Y
CS PCB-178	100	111	40	-	125	Y

Processed: 06 Apr 2014 16:10 Analyst: CM

SGS ID: OPR1\_11906\_PCB  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

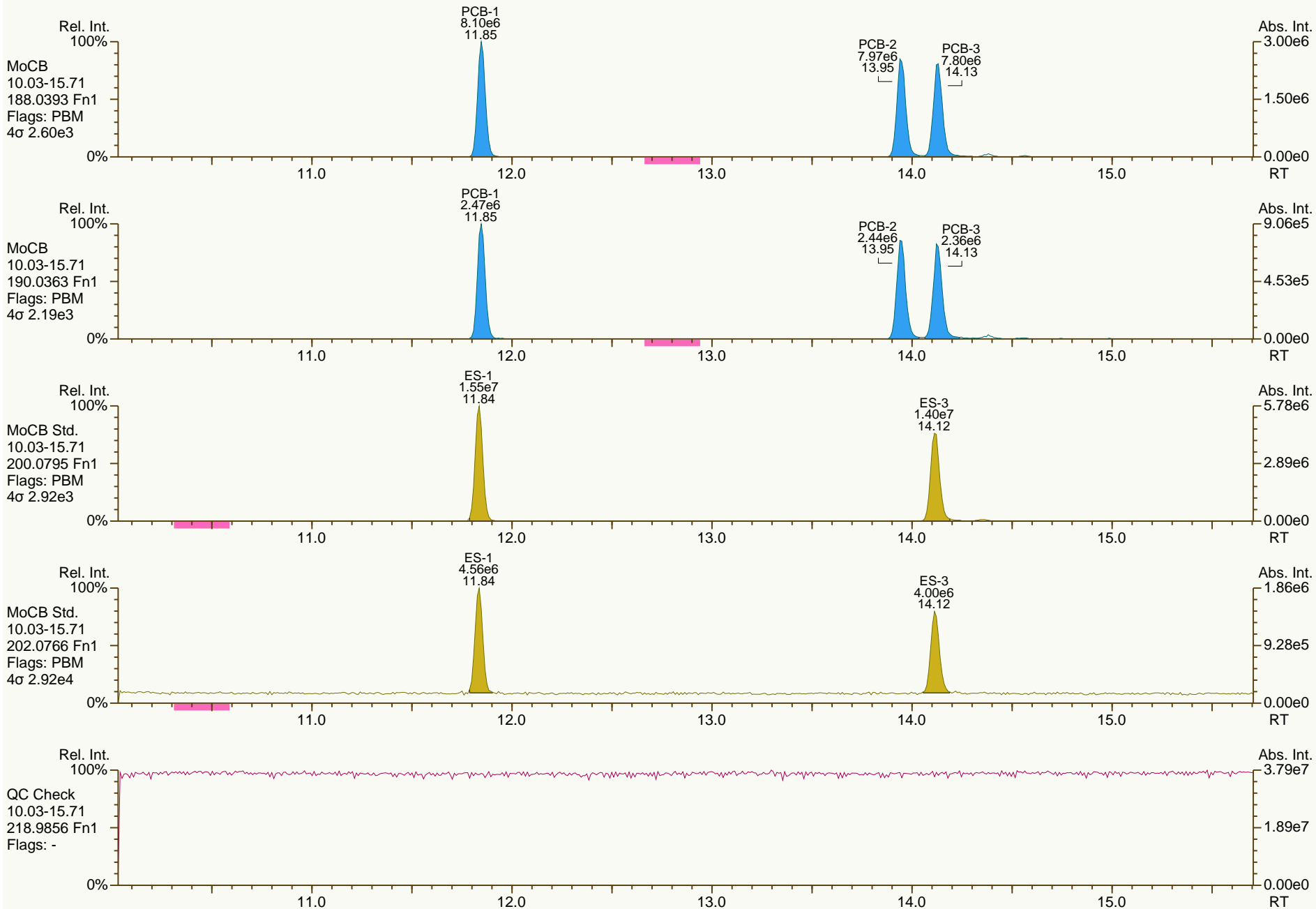
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
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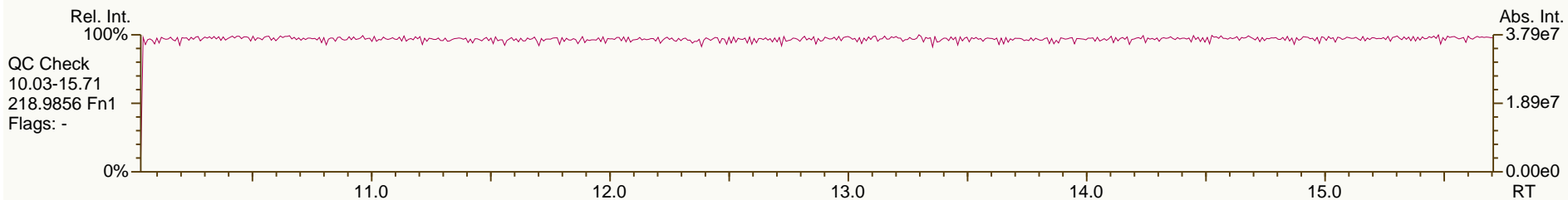
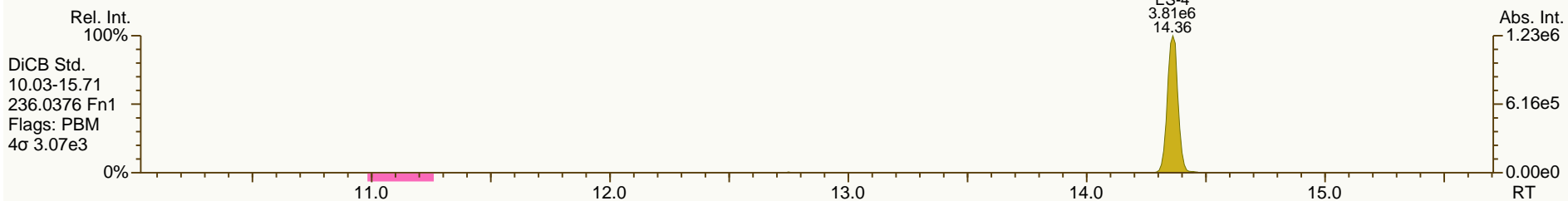
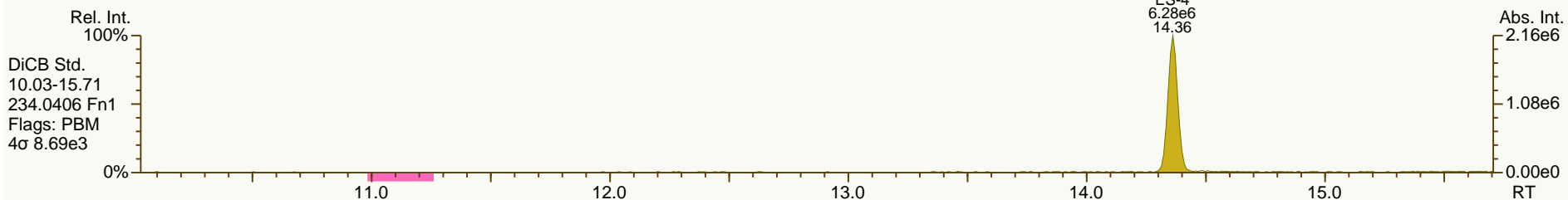
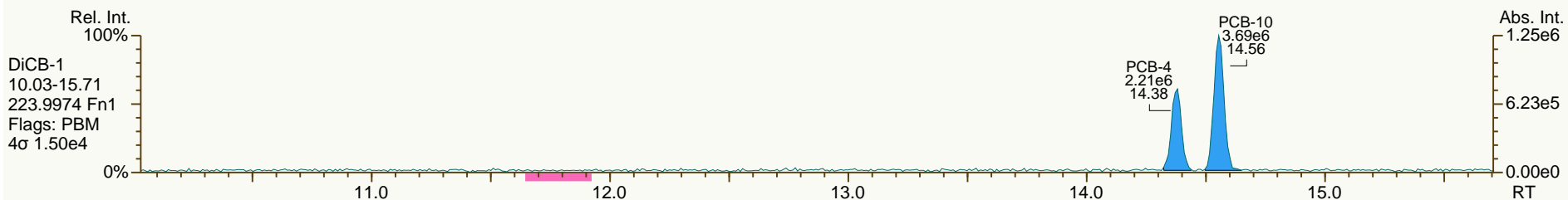
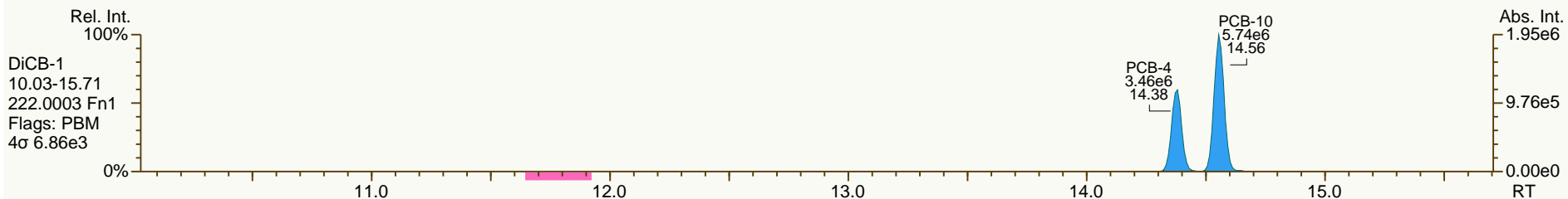
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

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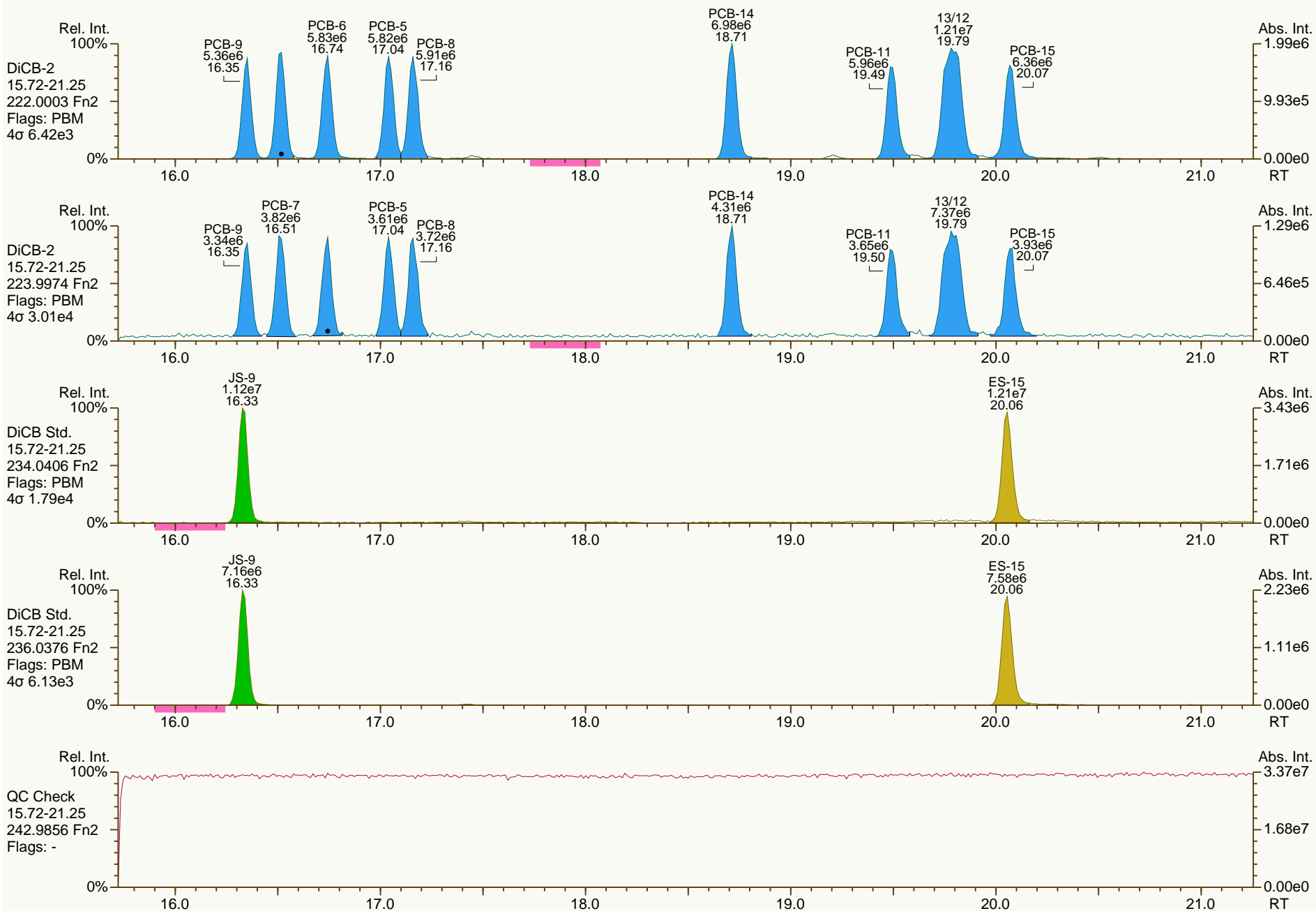




SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
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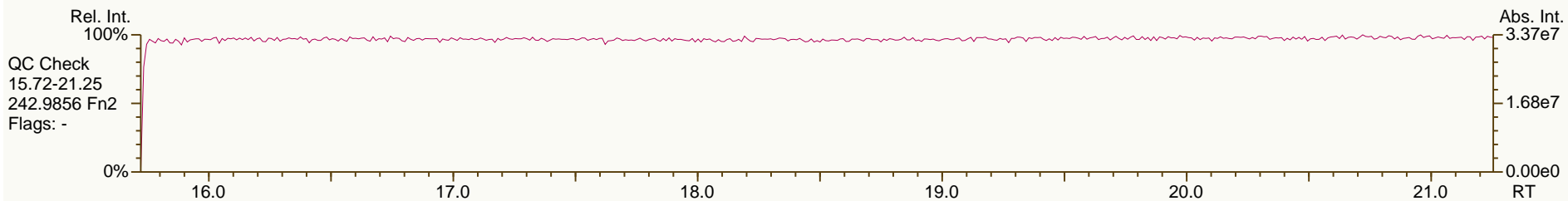
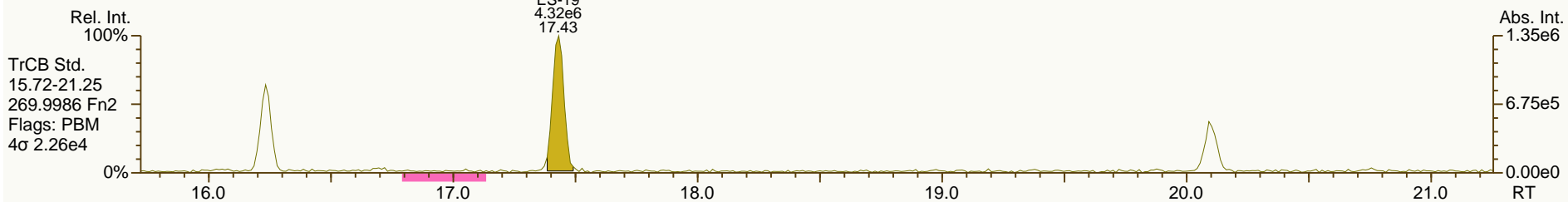
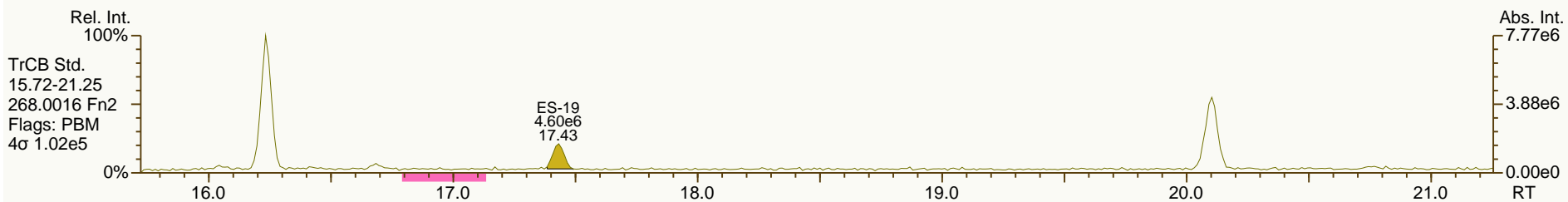
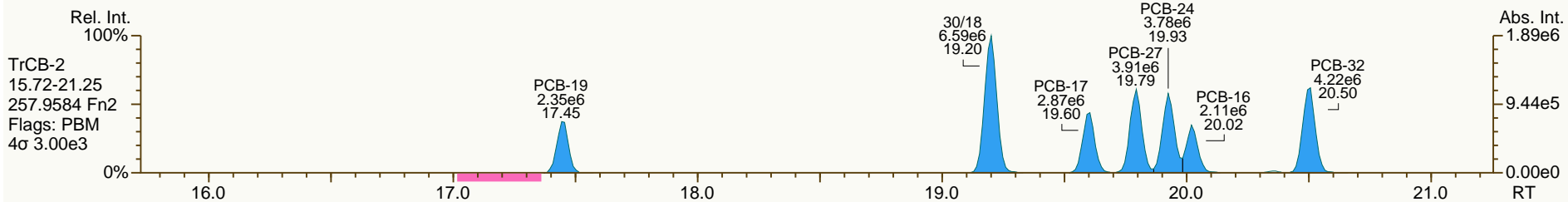
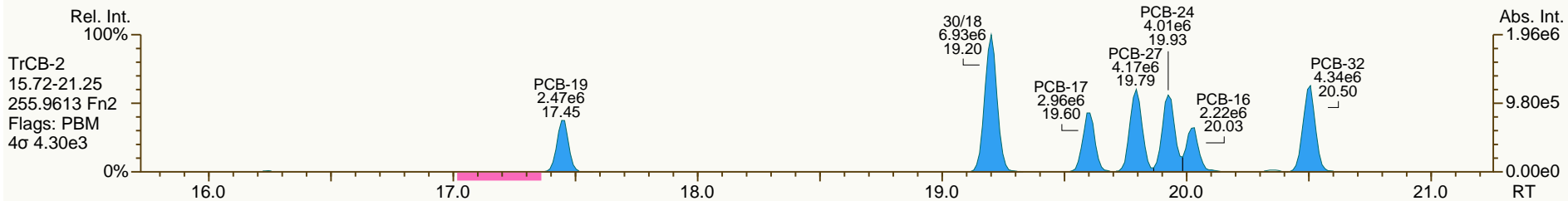
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

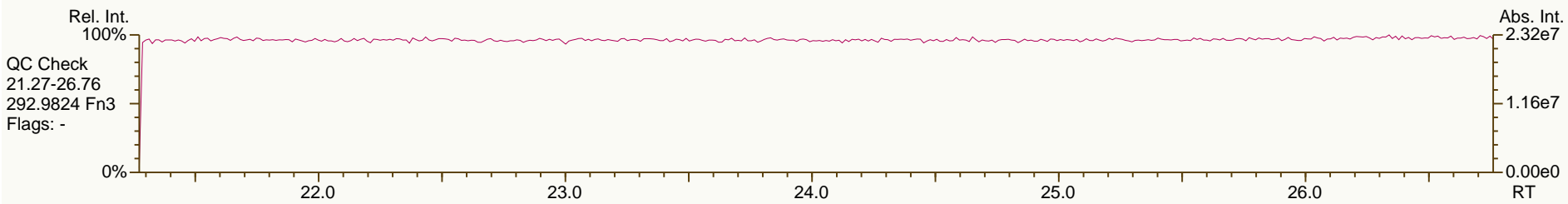
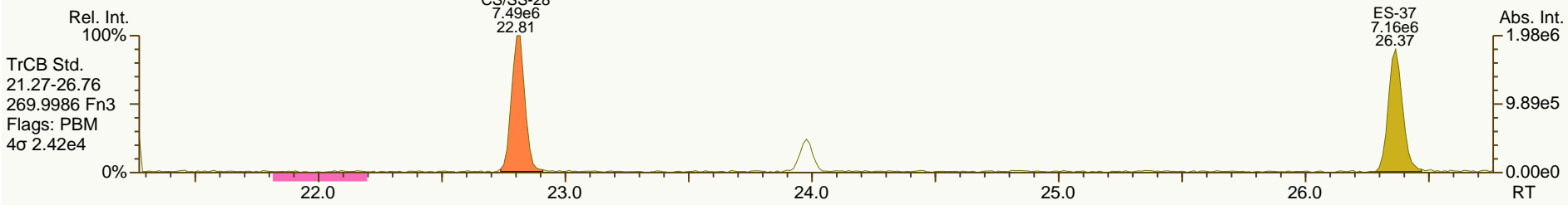
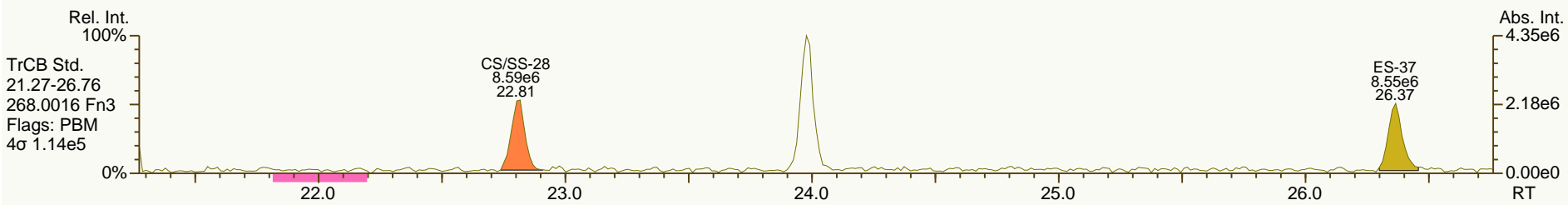
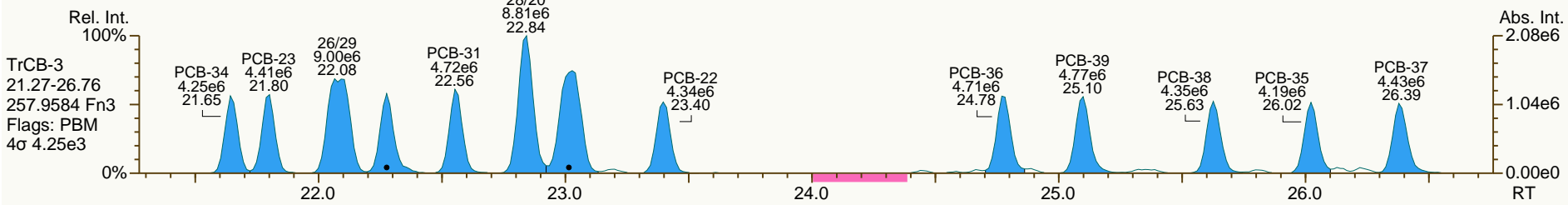
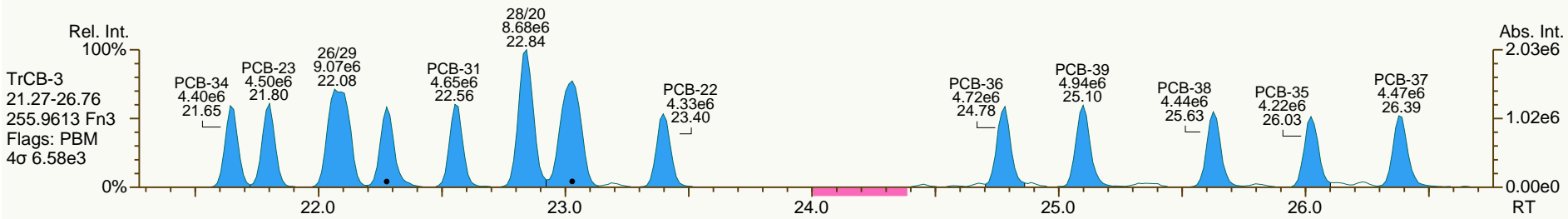
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SGS ID: OPR1\_11906\_PCB  
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Sample ID: 0\_11906\_OPR001  
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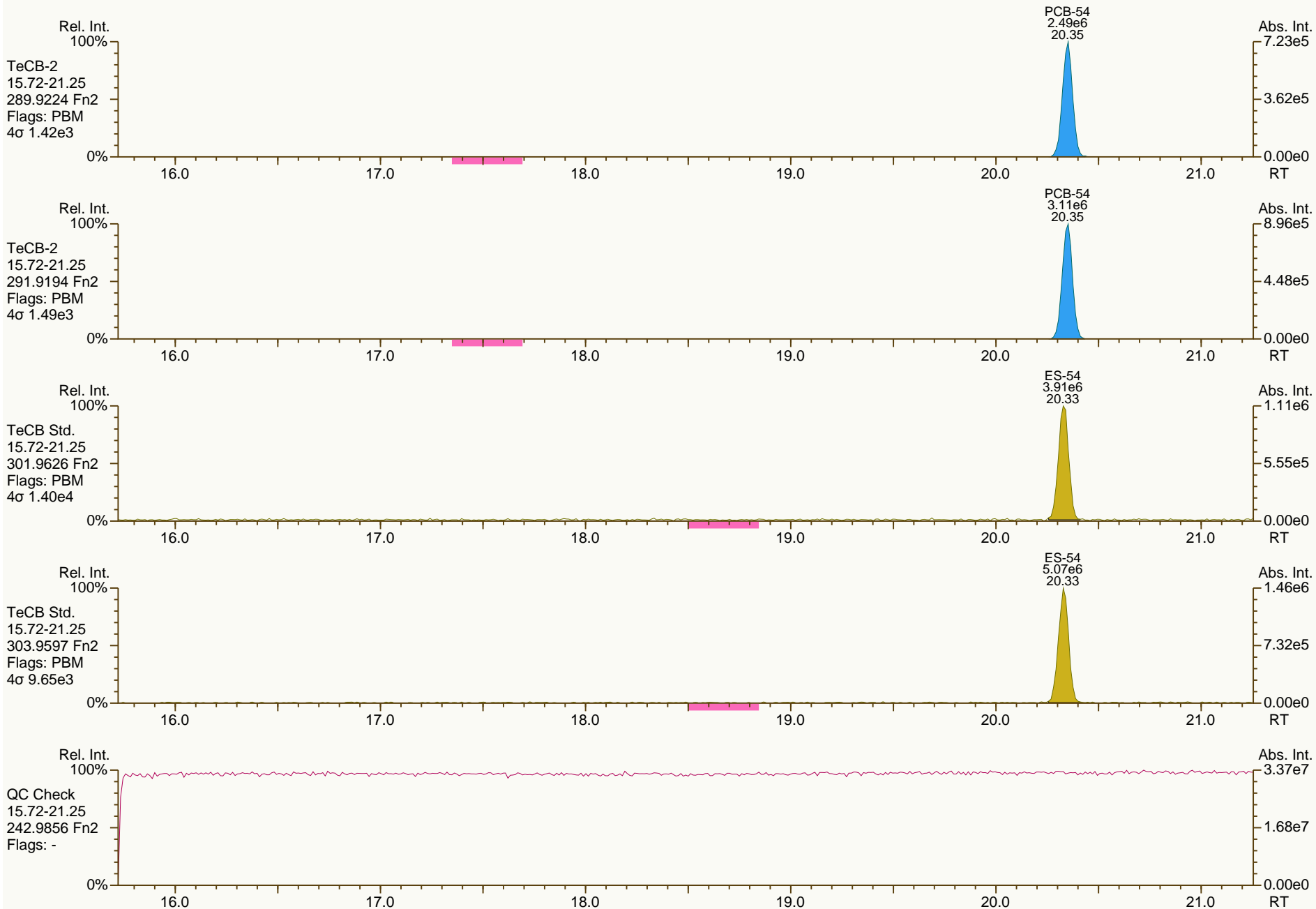
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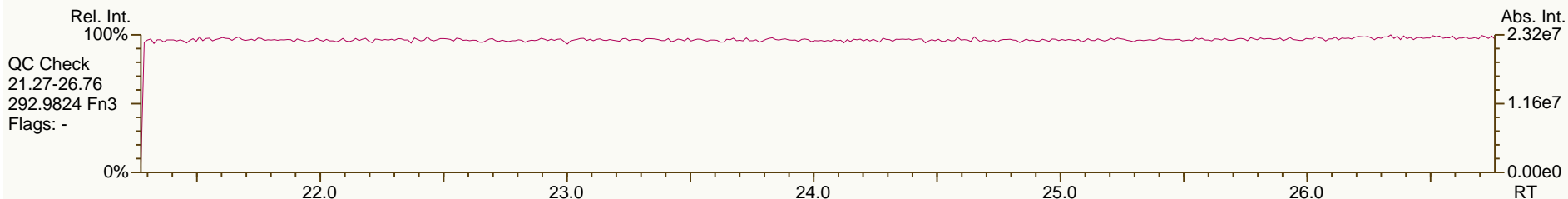
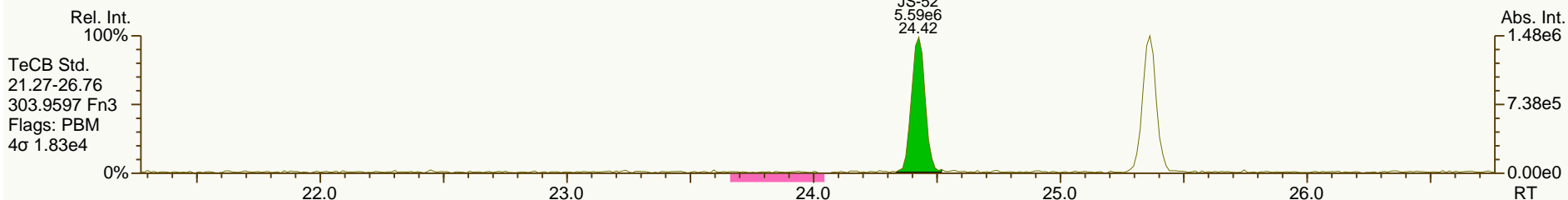
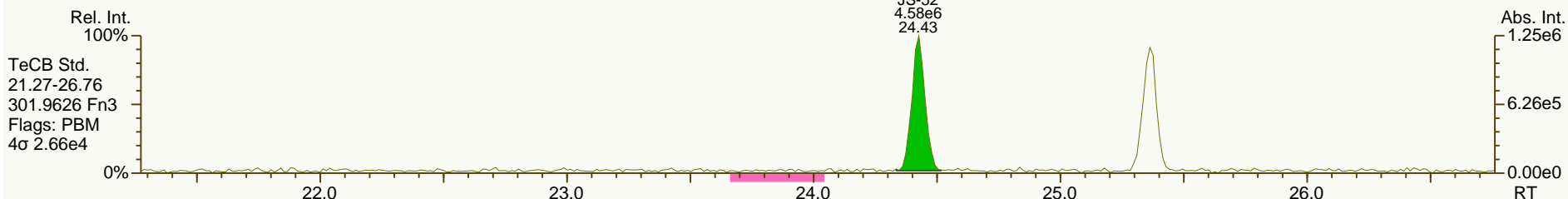
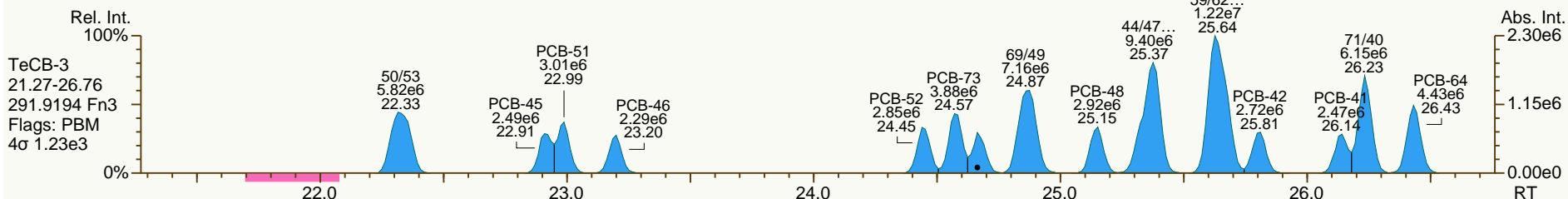
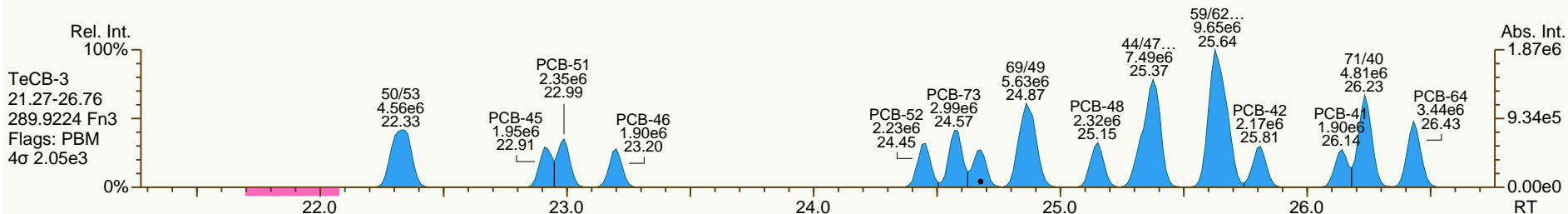
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

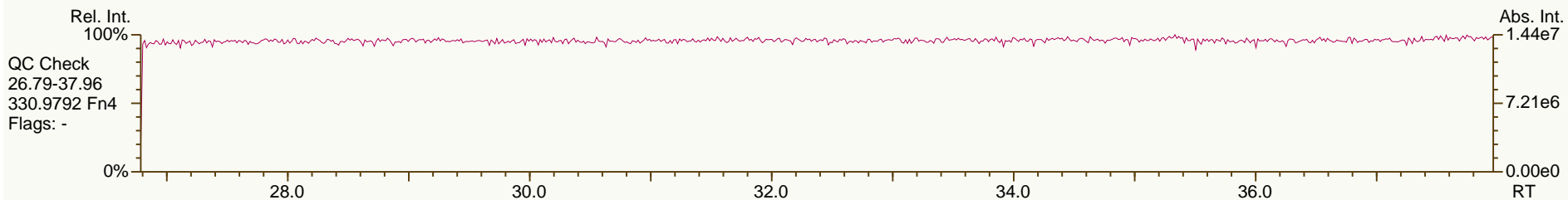
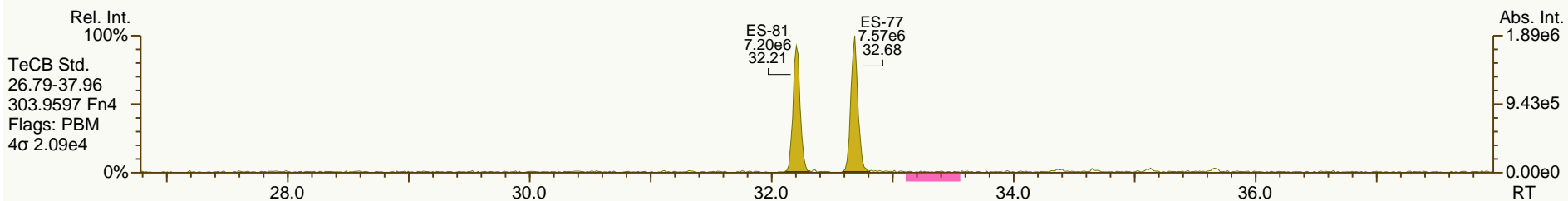
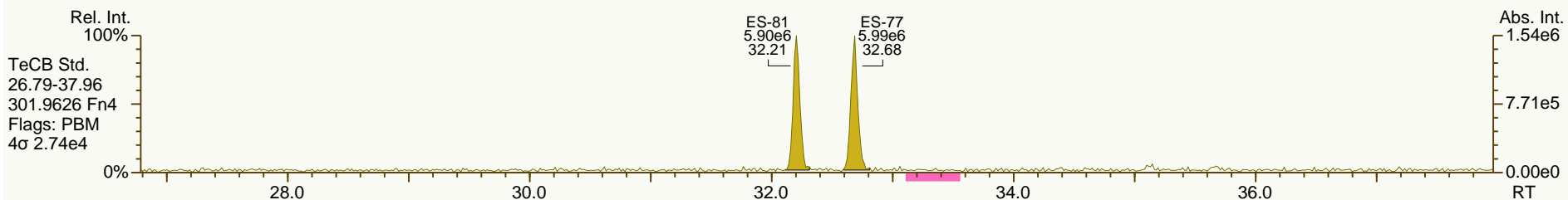
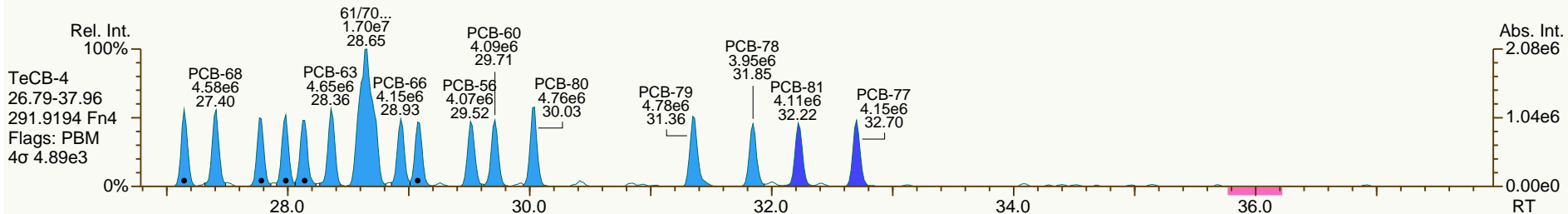
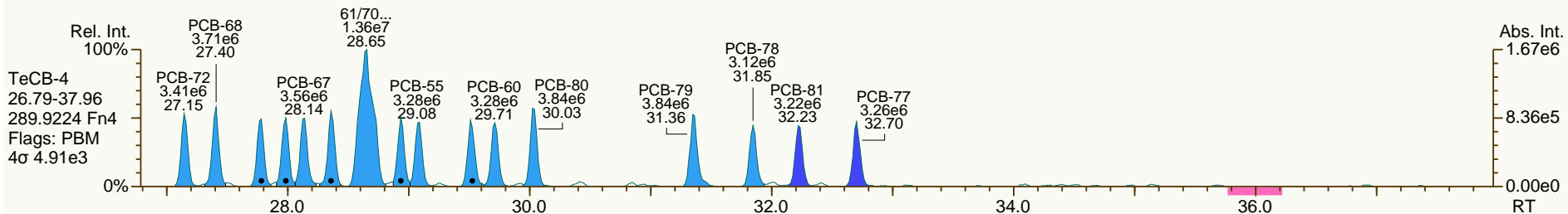
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
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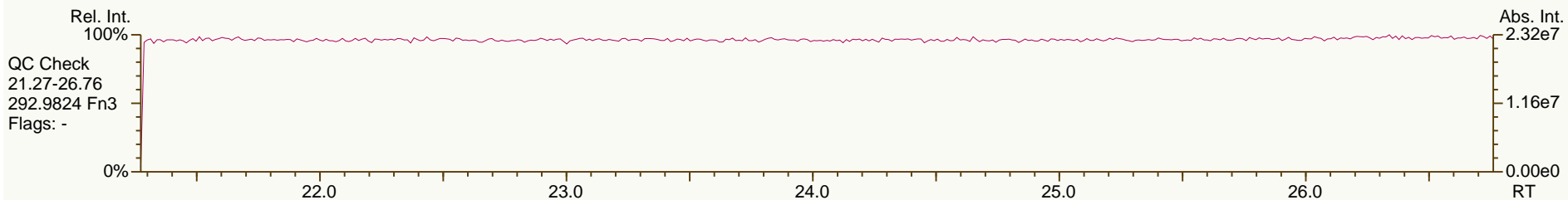
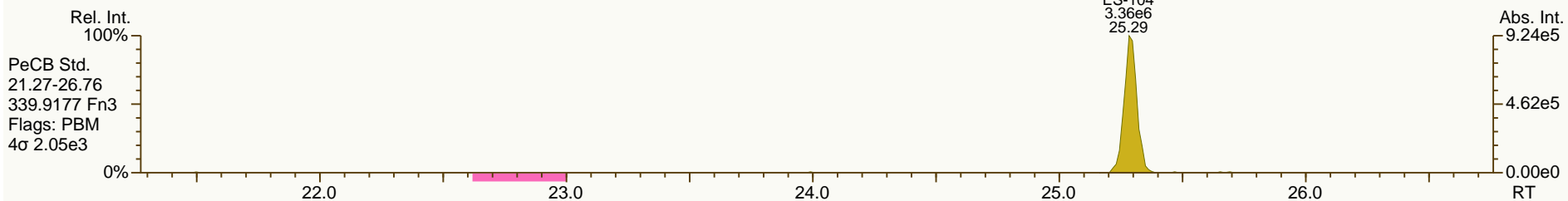
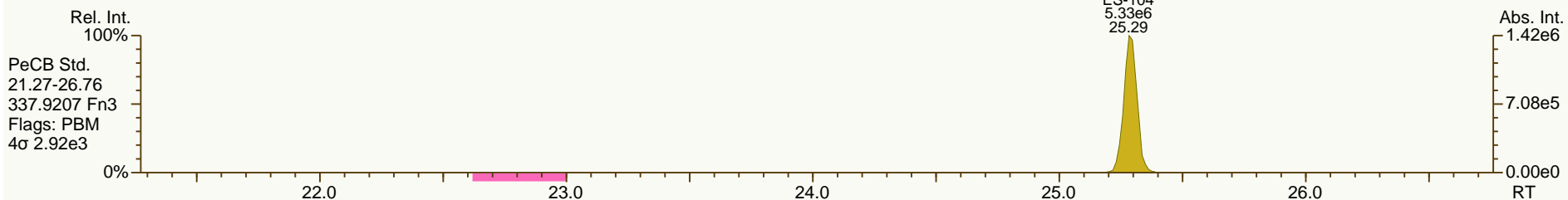
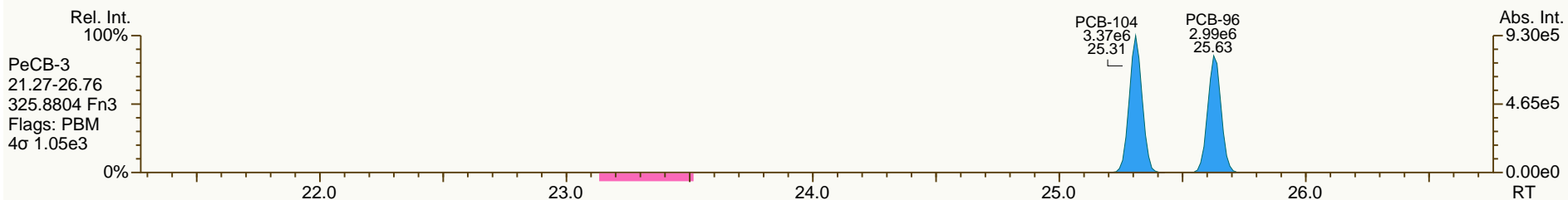
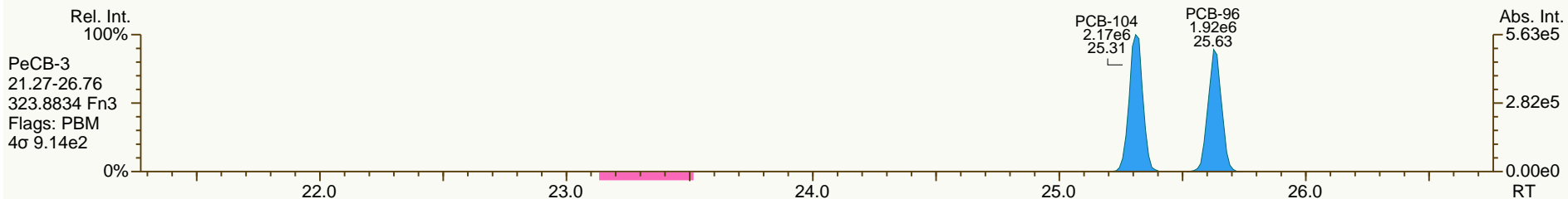
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
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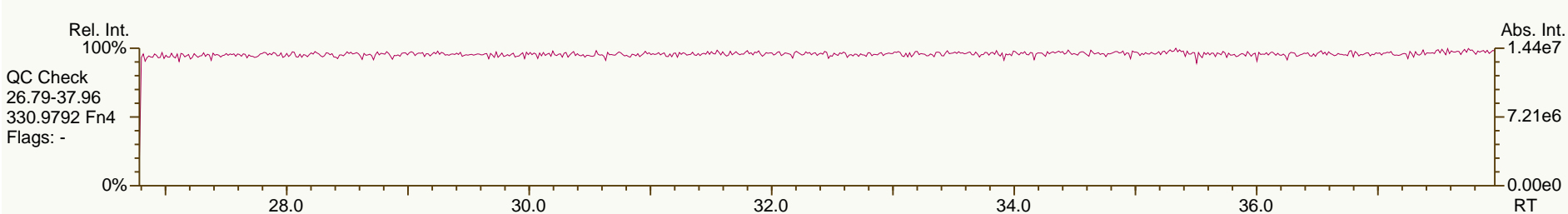
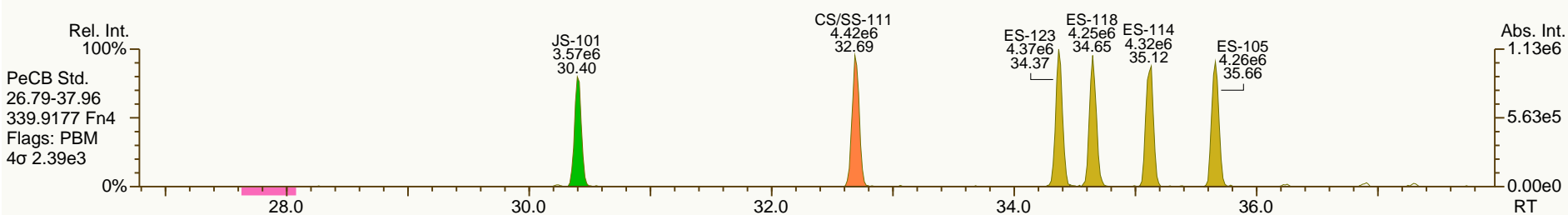
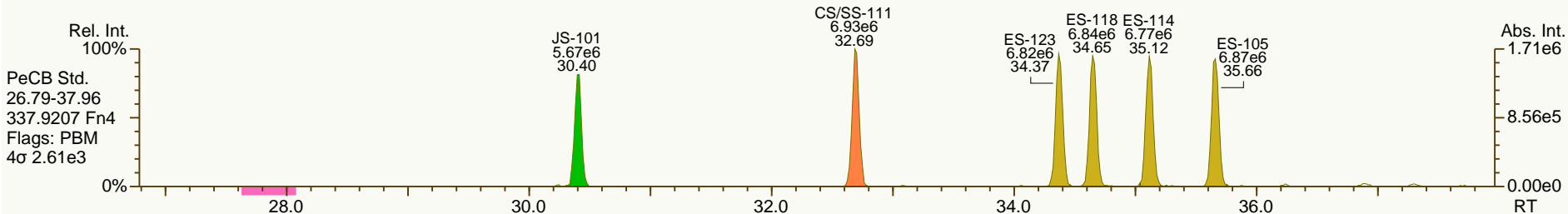
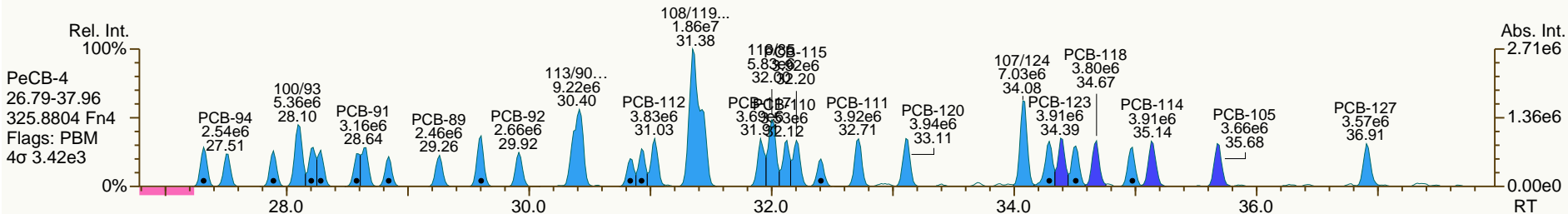
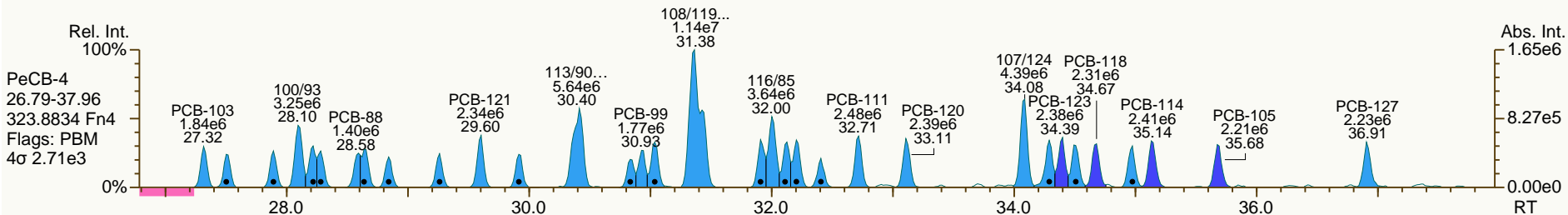
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SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

Acq: 02-Apr-2014 00:23:43  
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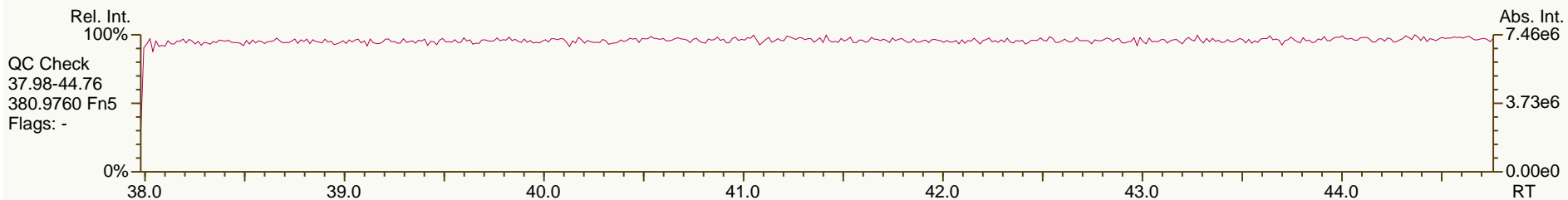
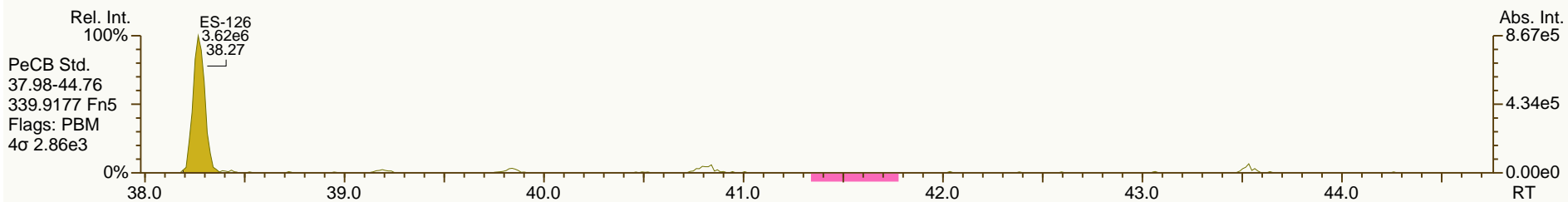
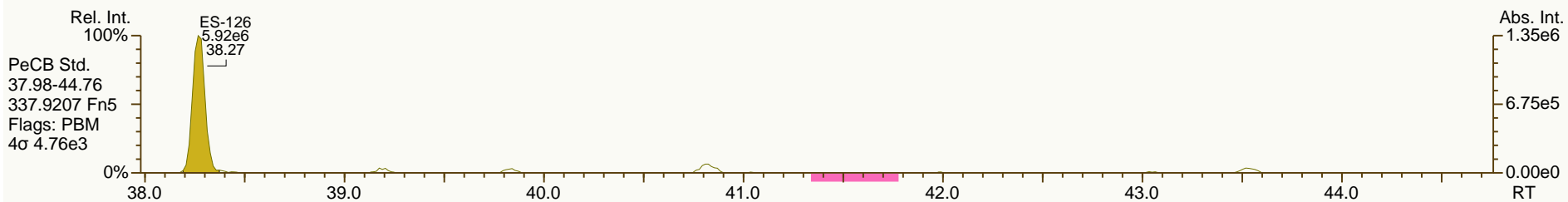
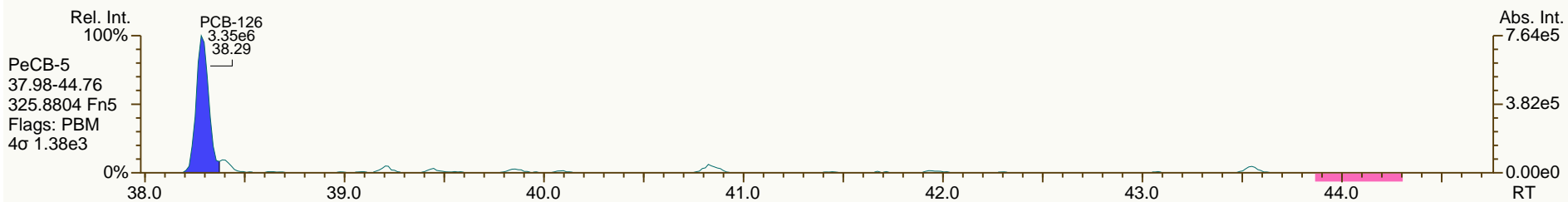
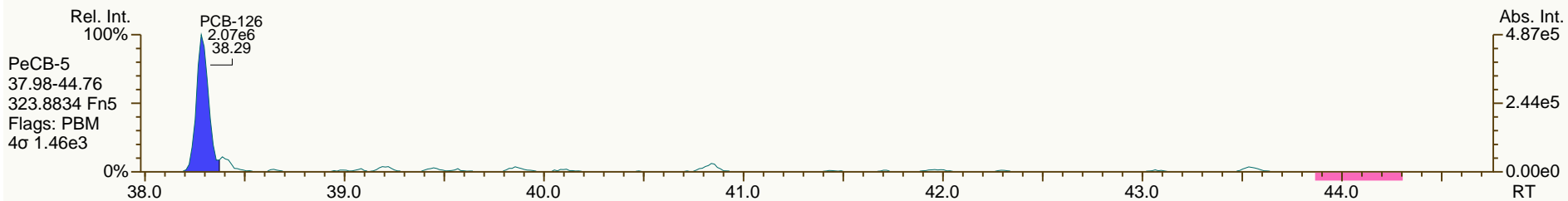




SGS ID: OPR1\_11906\_PCB  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

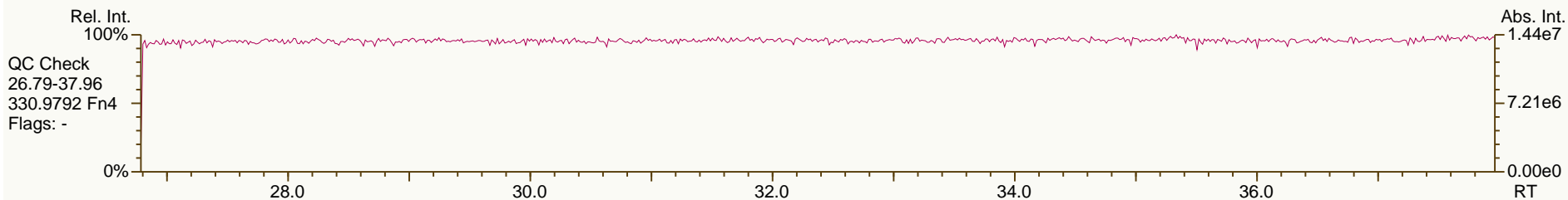
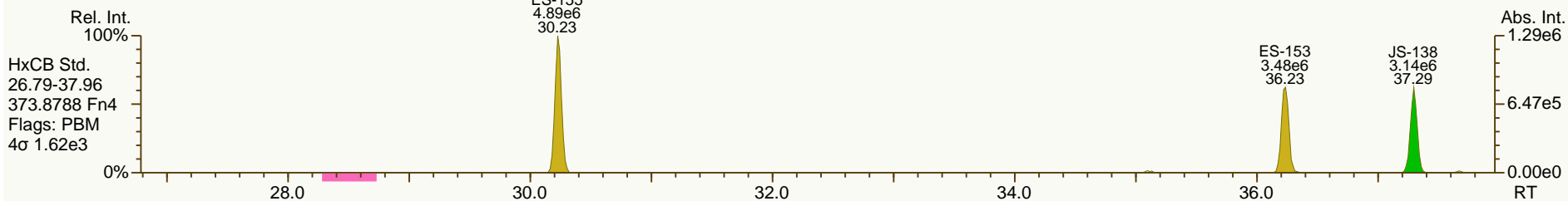
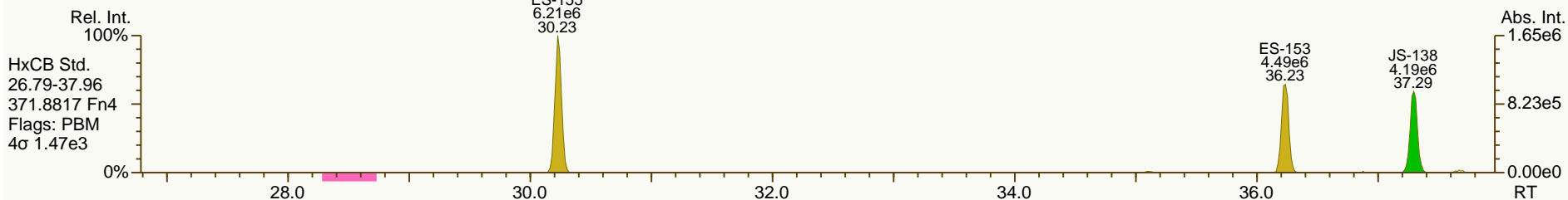
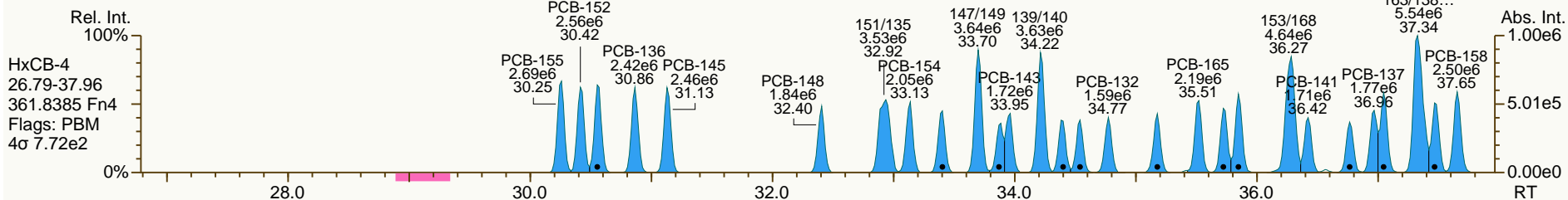
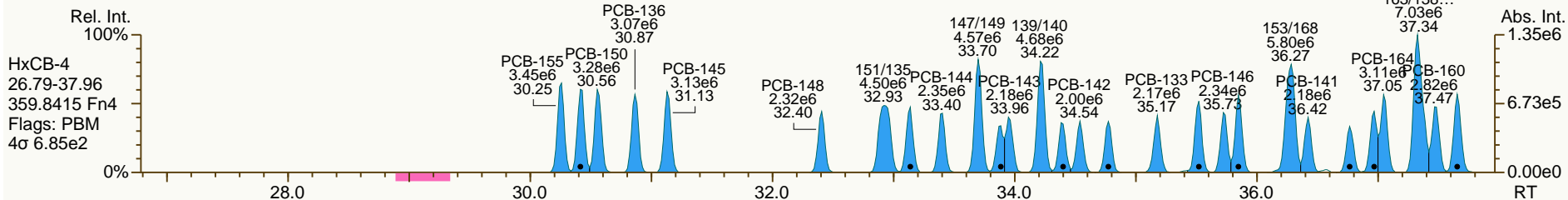
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 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
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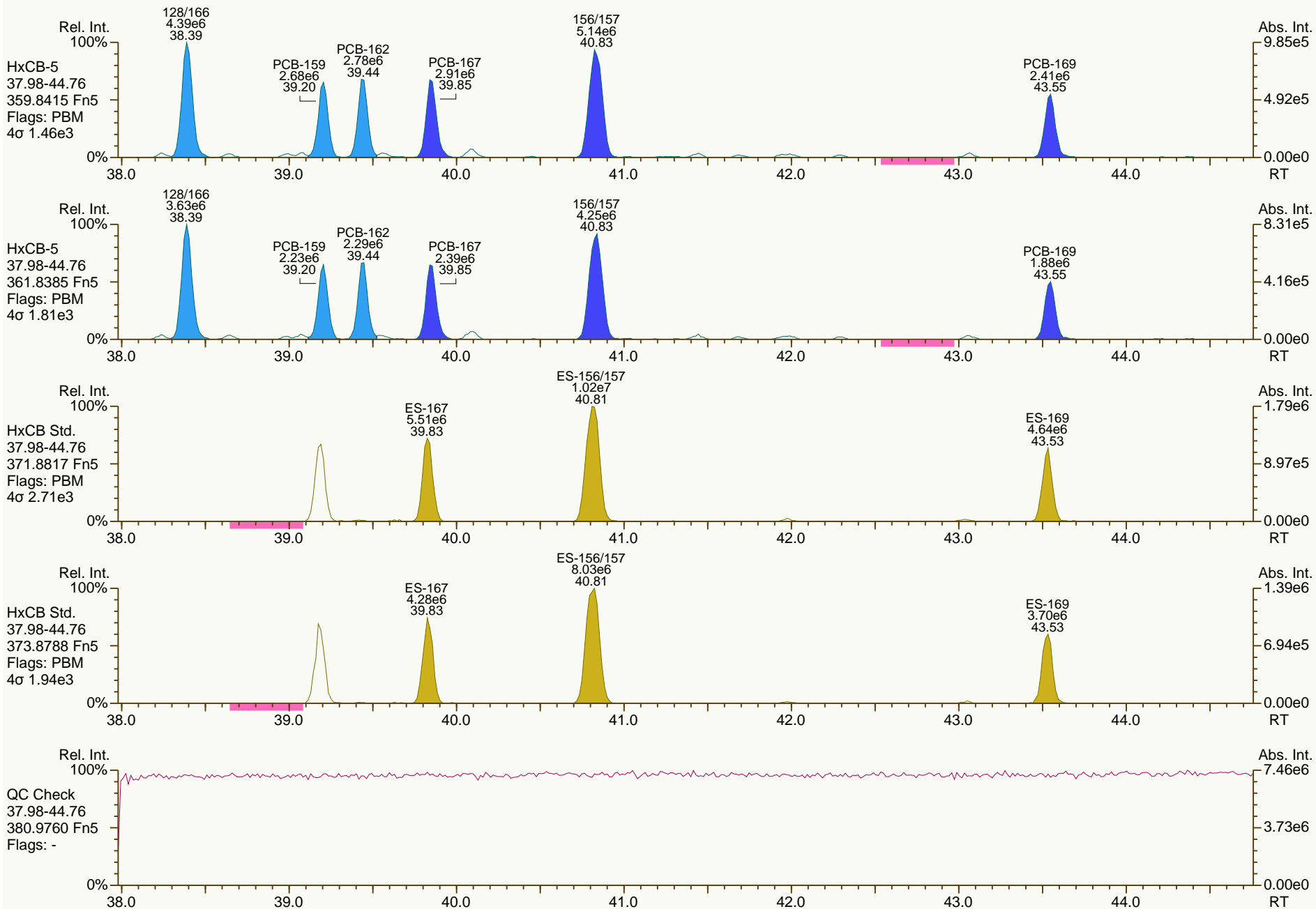
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Sample ID: 0\_11906\_OPR001  
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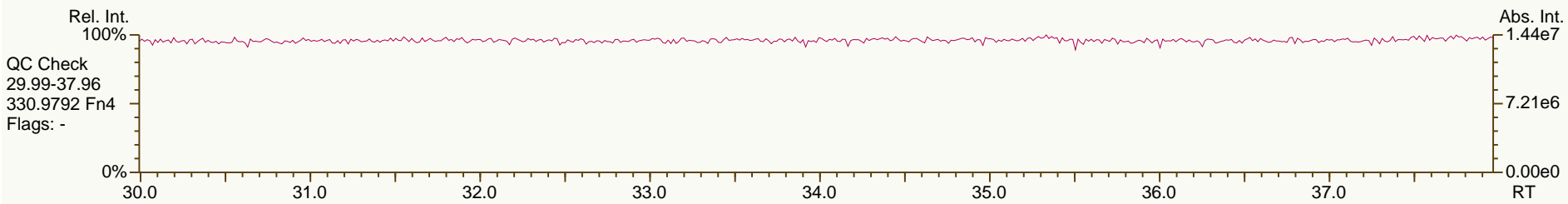
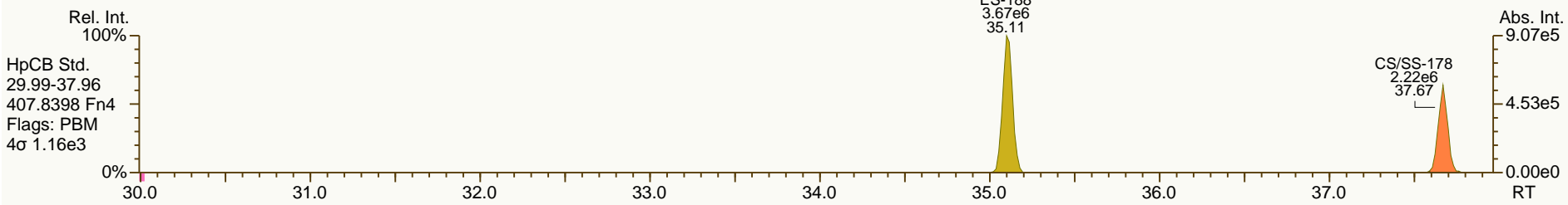
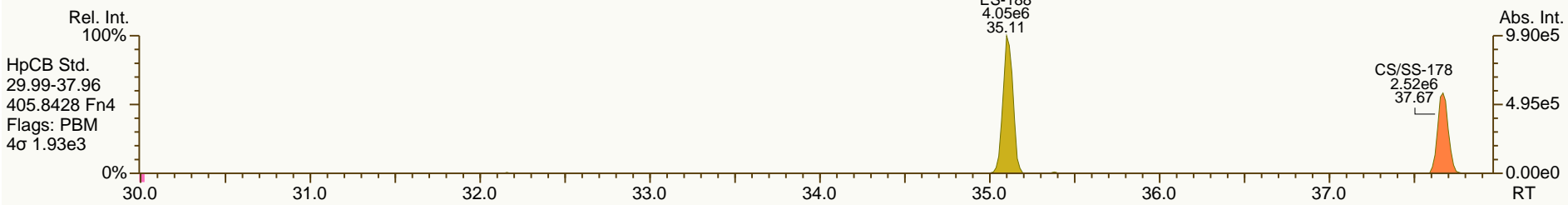
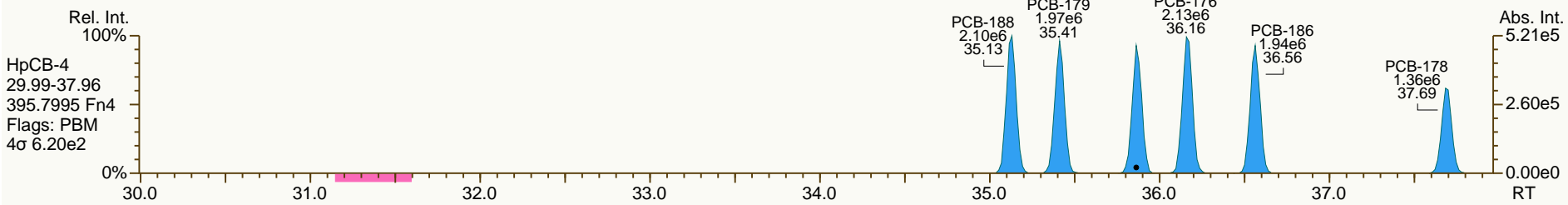
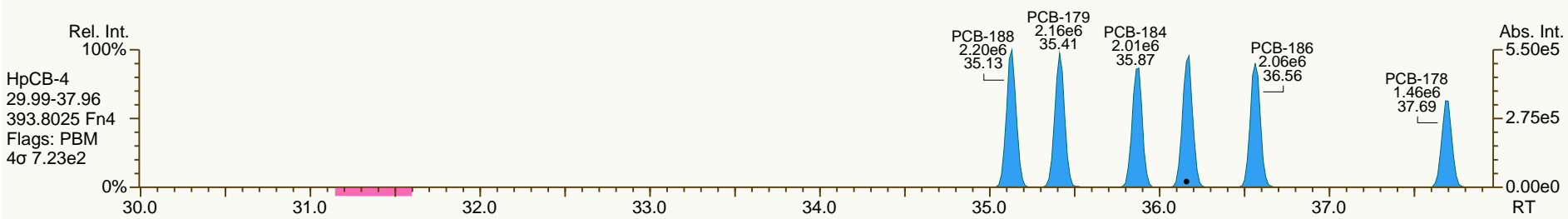
Acq: 02-Apr-2014 00:23:43  
 User: LKB Datafile: 140402X02



SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

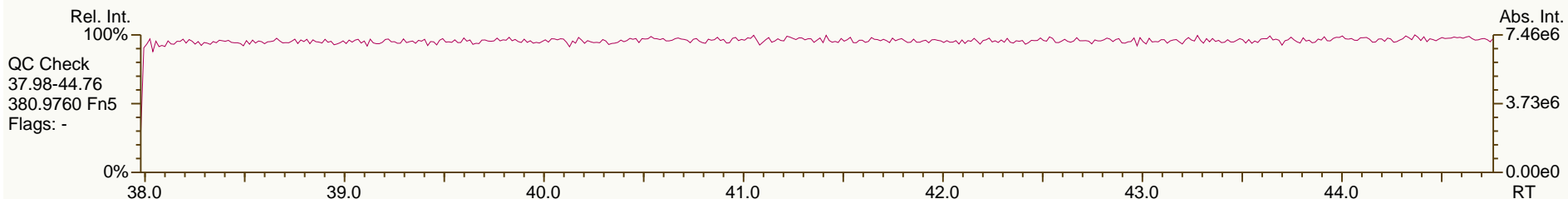
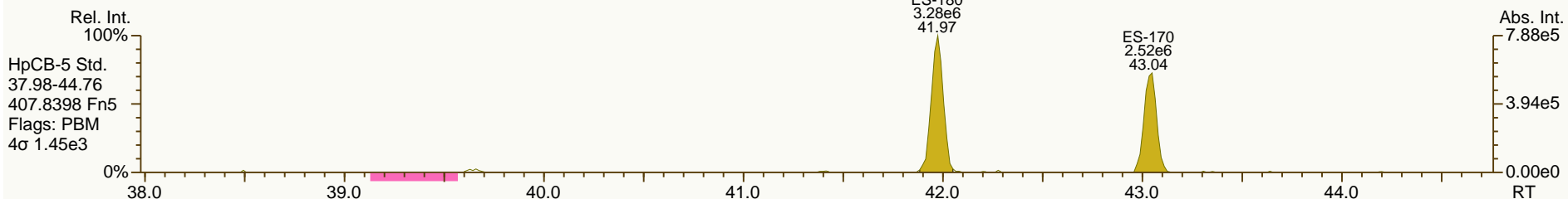
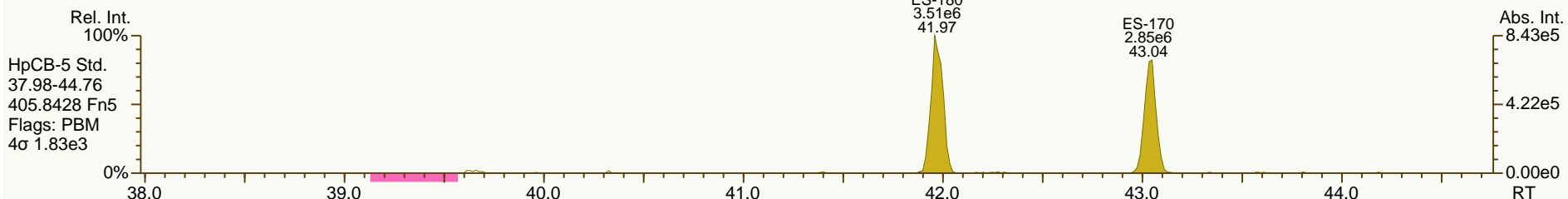
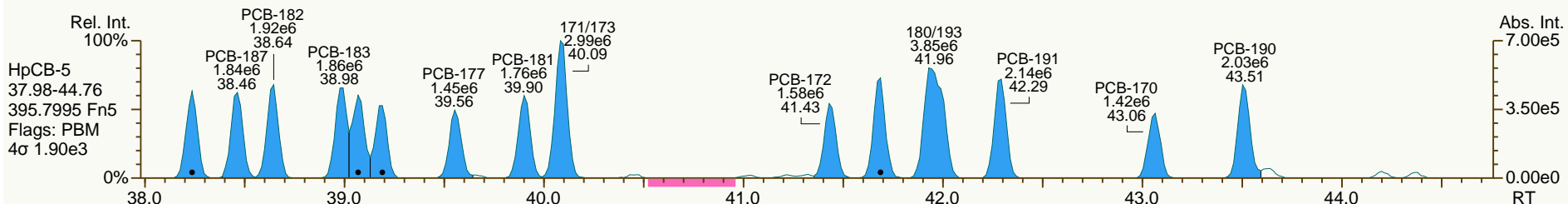
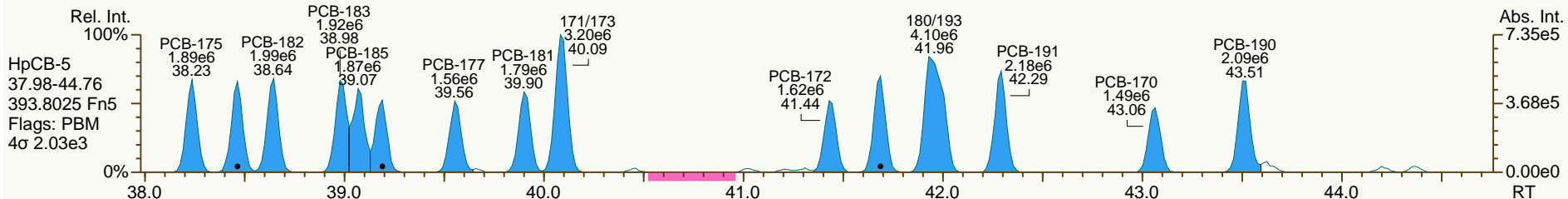
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 User: LKB Datafile: 140402X02



SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

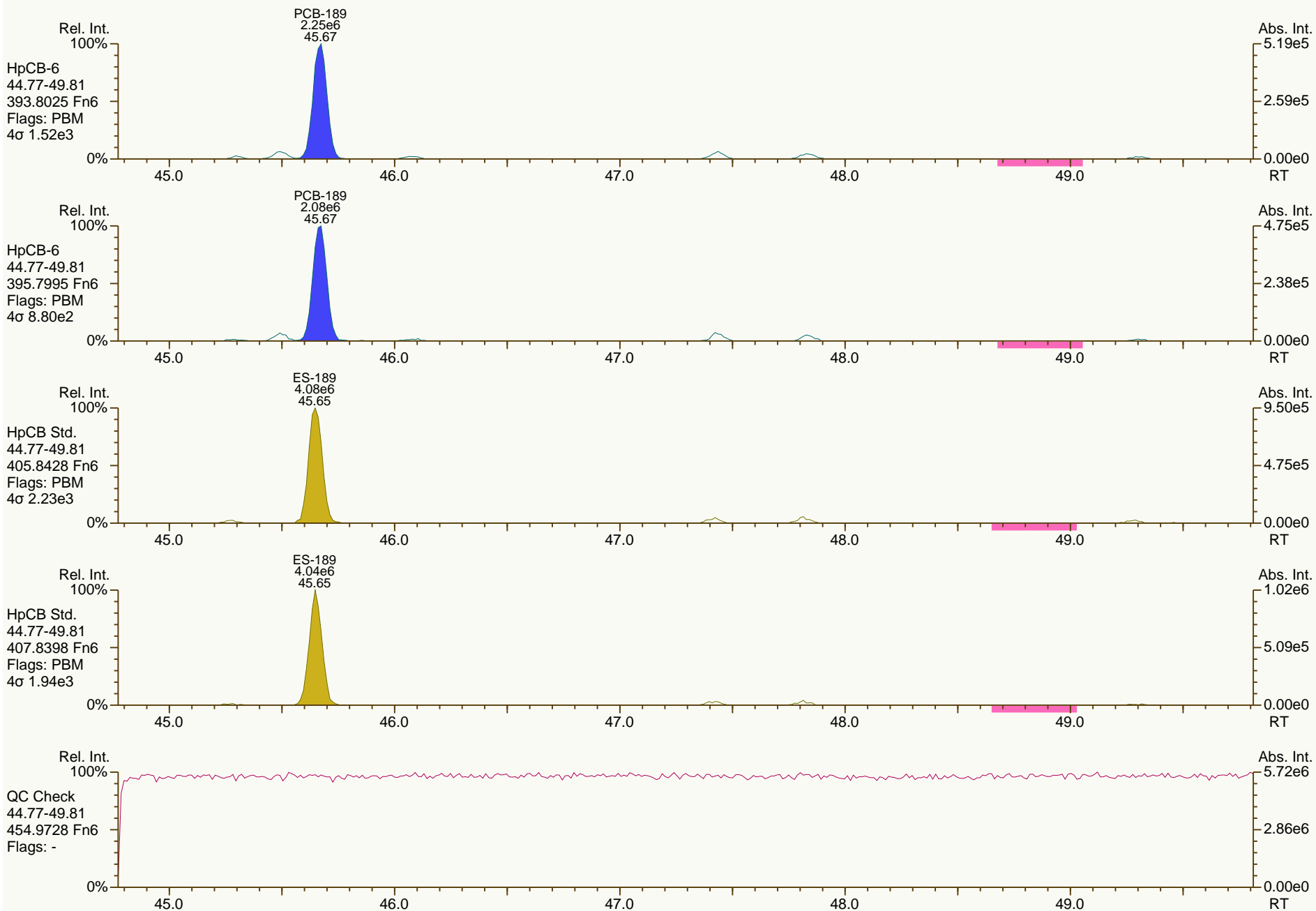
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 User: LKB Datafile: 140402X02



SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

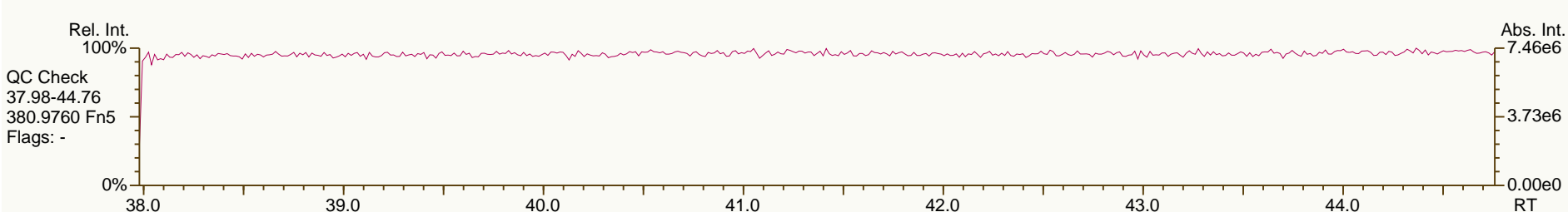
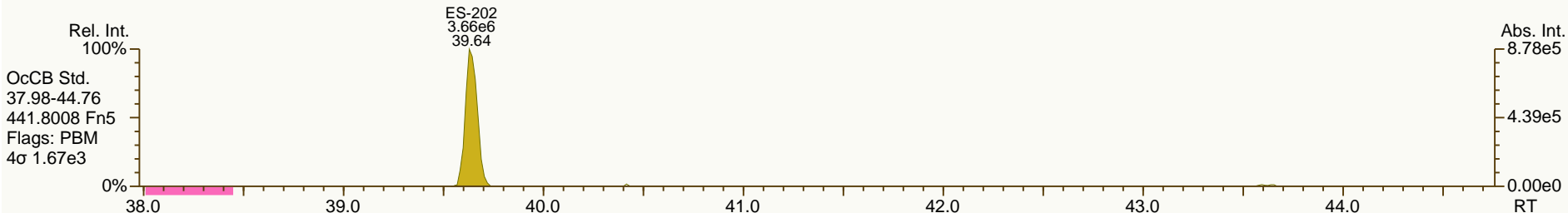
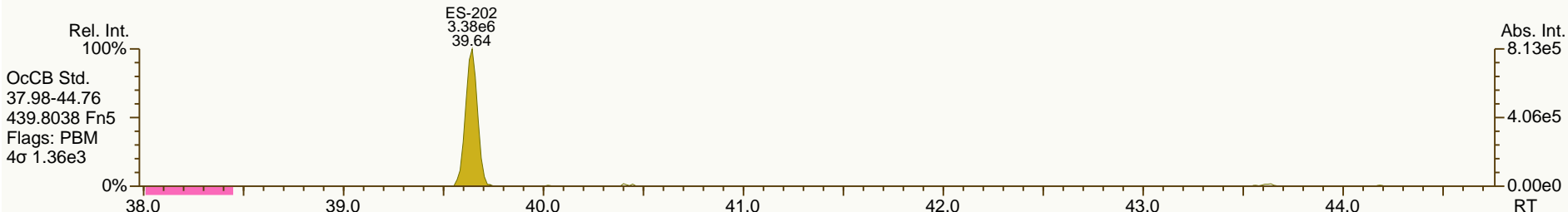
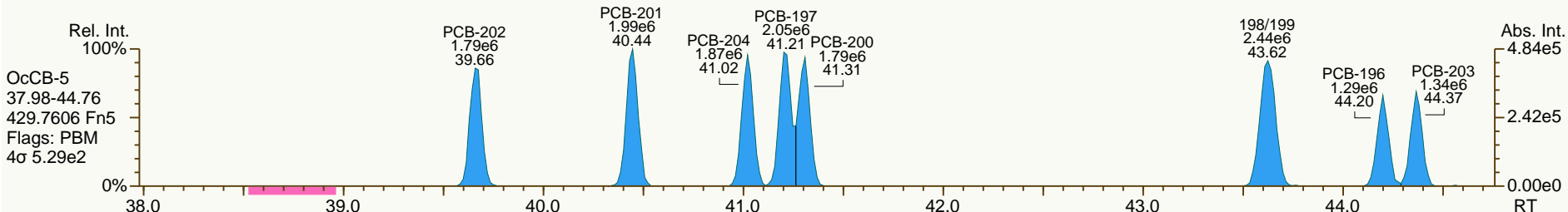
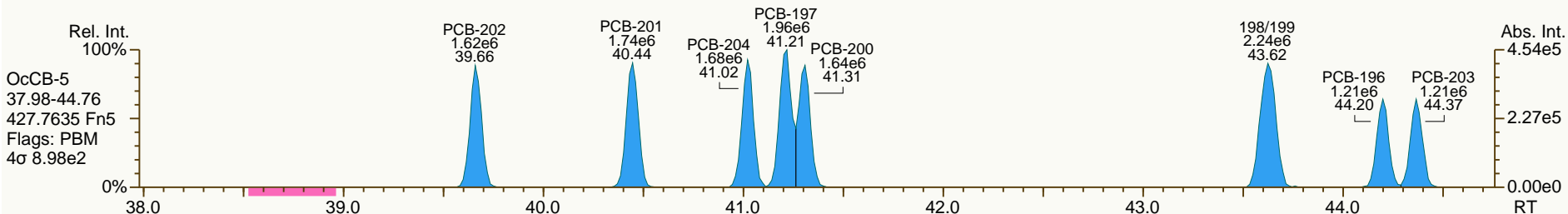
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 User: LKB Datafile: 140402X02



SGS ID: OPR1\_11906\_PCB  
 Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
 VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

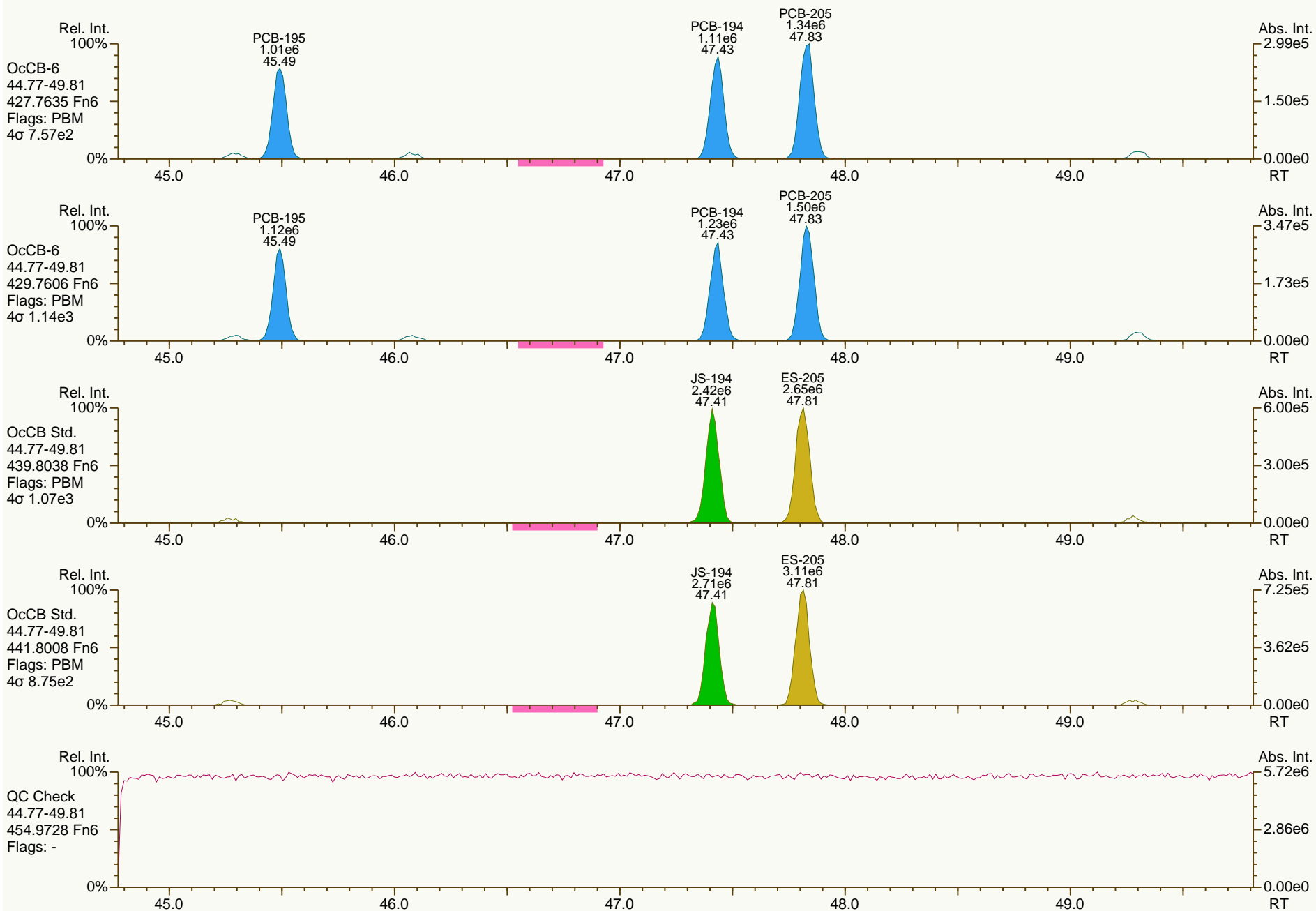
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 User: LKB Datafile: 140402X02



SGS ID: OPR1\_11906\_PCB  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

Acq: 02-Apr-2014 00:23:43  
User: LKB Datafile: 140402X02

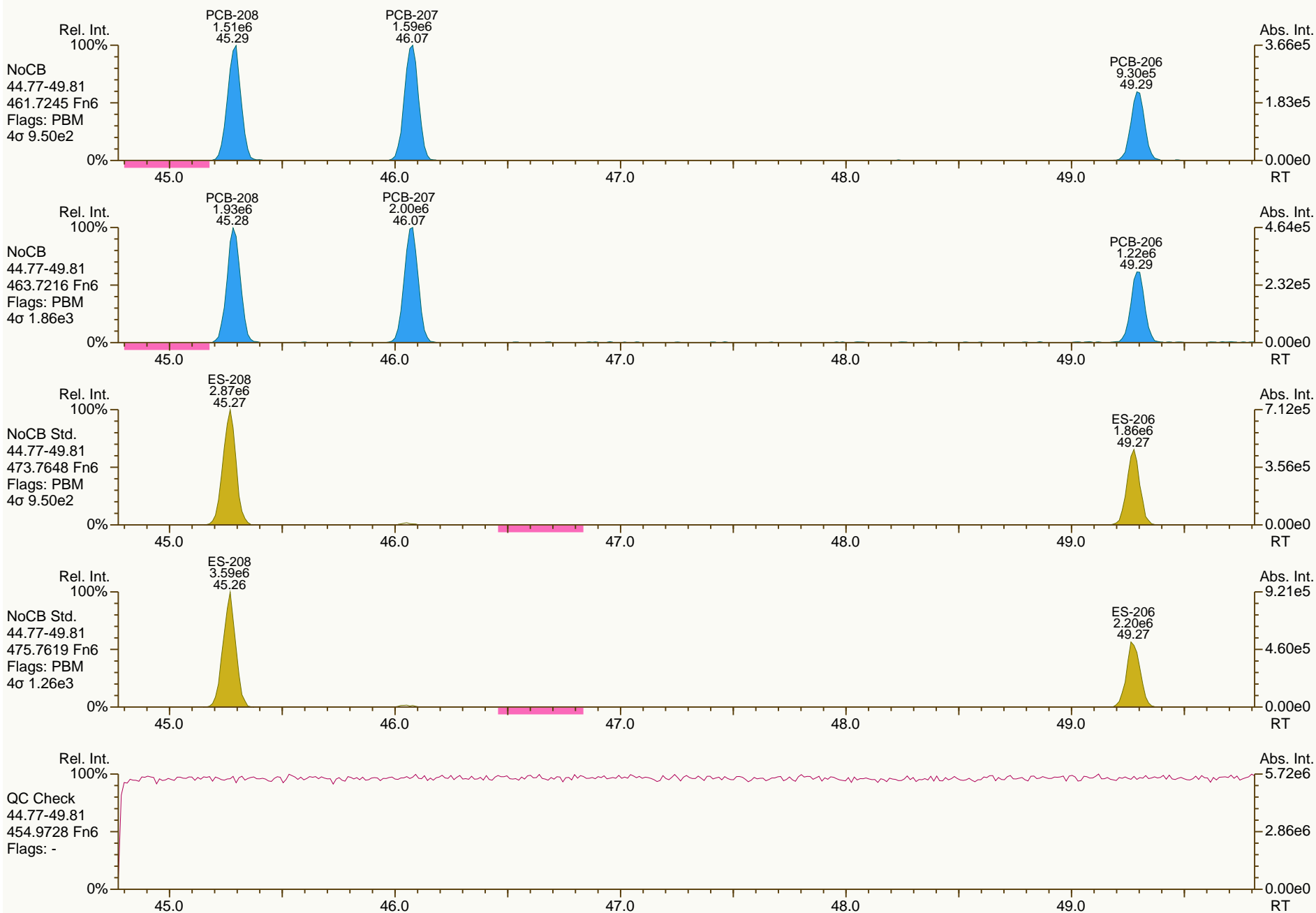




SGS ID: OPR1\_11906\_PCB  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

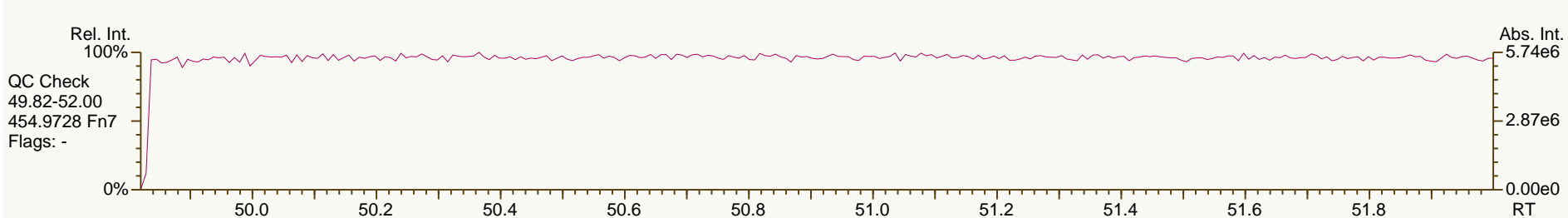
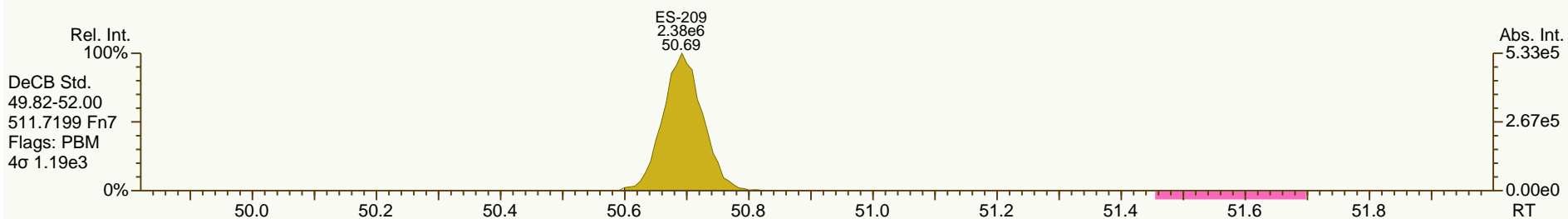
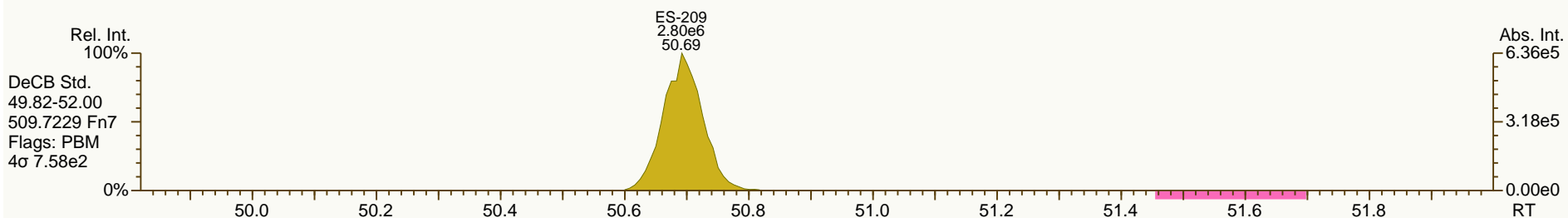
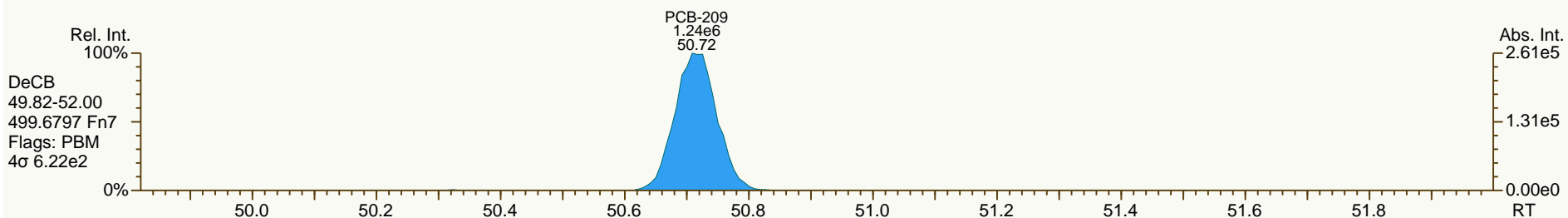
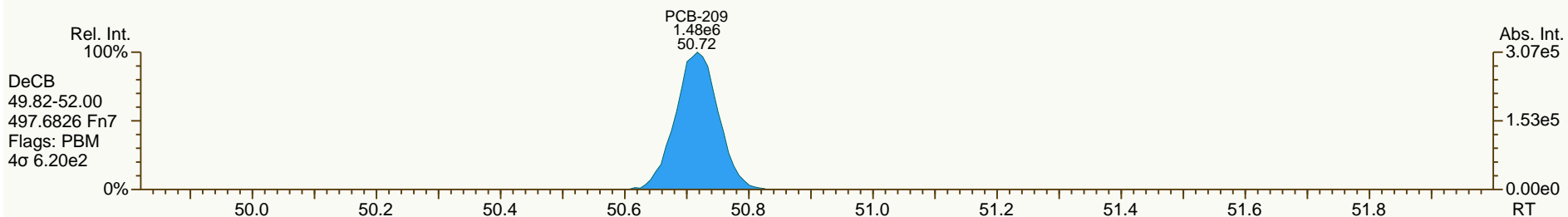
Acq: 02-Apr-2014 00:23:43  
User: LKB Datafile: 140402X02



SGS ID: OPR1\_11906\_PCB  
Instr: [ILM] AutoSpec-Premier MM7

Sample ID: 0\_11906\_OPR001  
VSIR EI+ Expt: pcb-2012-01 GC: pcb90\_a Vial: 20

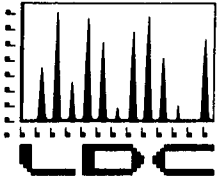
Acq: 02-Apr-2014 00:23:43  
User: LKB Datafile: 140402X02



# APPENDIX D

## DATA VALIDATION REPORTS

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# LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Anchor QEA, LLC  
720 Olive Way, Suite 900  
Seattle, WA 98101  
ATTN: Ms. Cindy Fields

May 20, 2014

SUBJECT: Patrick Bayou, Data Validation

Dear Ms. Fields,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on April 21, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

### LDC Project #31690:

<u>SDG #</u>	<u>Fraction</u>
31400373, 31400389 31400395, 31400411 31400420, 31400427 A6492, A6504, A6506 A6517, A6521, A6528	Polychlorinated Biphenyls as Congeners, Wet Chemistry

The data validation was performed under EPA Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans Data Review, September 2011
- USEPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink  
Project Manager/Chemist

EDD **LDC #31690 (Anchor Environmental-Seattle WA / Patrick Bayou)** Project #

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCB Cong (1668B)		TOC (9060)		DOC (9060)		TSS (2540D)																											
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
Matrix:	Water/Issue																																				
A	31400373	04/21/14	05/12/14	-	-	3	0	2	0	3	0																										
B	31400389	04/21/14	05/12/14	-	-	6	0	1	0	6	0																										
C	31400395	04/21/14	05/12/14	-	-	7	0	1	0	7	0																										
D	31400411	04/21/14	05/12/14	-	-	1	0	-	-	1	0																										
E	31400420	04/21/14	05/12/14	-	-	6	0	-	-	6	0																										
F	31400427	04/21/14	05/12/14	-	-	3	0	1	0	3	0																										
G	A6492	04/21/14	05/12/14	5	0	-	-	-	-	-	-																										
H	A6504	04/21/14	05/12/14	9	0	-	-	-	-	-	-																										
I	A6506	04/21/14	05/12/14	8	0	-	-	-	-	-	-																										
J	A6517	04/21/14	05/12/14	1	0	-	-	-	-	-	-																										
K	A6521	04/21/14	05/12/14	6	0	-	-	-	-	-	-																										
L	A6528	04/21/14	05/12/14	4	0	-	-	-	-	-	-																										
Total	A/CR			33	0	26	0	5	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou  
**Collection Date:** March 11, 2014  
**LDC Report Date:** April 24, 2014  
**Matrix:** Water  
**Parameters:** Wet Chemistry  
**Validation Level:** Stage 2B  
**Laboratory:** SGS Analytical Perspective  
**Sample Delivery Group (SDG):** 31400373

**Sample Identification**

PB006.2-1SWMID-140311-D  
PB006.2-1SWMID-140311-N  
HSC14.1-1SWMID-140311-N  
PB006.2-1SWMID-140311-DDUP  
PB006.2-1SWMID-140311-DMS  
PB006.2-1SWMID-140311-DMSD  
PB006.2-1SWMID-140311-NMS  
PB006.2-1SWMID-140311-NMSD

## Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9060A for Total Organic Carbon and Dissolved Organic Carbon and Standard Method 2540D for Total Suspended Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
PB006.2-1SWMID-140311-D PB006.2-1SWMID-140311-N	Dissolved organic carbon	Samples were filtered and preserved 5 days after receipt.	Sample should be filtered and preserved immediately upon receipt.	J (all detects) JJ (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. Initial Calibration

All criteria for the initial calibration of each method were met.

## III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

## IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

## V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## VIII. Sample Result Verification

The results for the dissolved organic carbon analysis were greater than the total organic compound analysis as follows:



Sample	Concentration (mg/L)	
	Dissolved organic carbon	Total organic carbon
PB006.2-1SWMID-140311-D	9.80	6.75
PB006.2-1SWMID-140311-N	9.40	5.47

Raw data were not reviewed for this SDG.

### IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to technical holding time problems, data were qualified as estimated in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

### X. Field Duplicates

Samples PB006.2-1SWMID-140311-D and PB006.2-1SWMID-140311-N were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N	
Total organic carbon	6.75	5.47	21
Dissolved organic carbon	9.80	9.40	4
Total suspended solids	11	17	43

### XI. Field Blanks

No field blanks were identified in this SDG.

**Patrick Bayou  
Wet Chemistry - Data Qualification Summary - SDG 31400373**

<b>SDG</b>	<b>Sample</b>	<b>Analyte</b>	<b>Flag</b>	<b>A or P</b>	<b>Reason</b>
31400373	PB006.2-1SWMID-140311-D PB006.2-1SWMID-140311-N	Dissolved organic carbon	J (all detects) UJ (all non-detects)	P	Technical holding time

**Patrick Bayou  
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 31400373**

No Sample Data Qualified in this SDG

LDC #: 31690A6

### VALIDATION COMPLETENESS WORKSHEET

Date: 4/24/14

SDG #: 31400373

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical Perspective

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD: (Analyte)** Total Organic Carbon, Dissolved Organic Carbon (EPA SW846 Method 9060), Total Suspended Solids (SM2540D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 3/11/14
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	
VI.	Duplicates	A	
VII.	Laboratory control samples	A	UG
VIII.	Sample result verification	SW	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(1,2)
XI	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

1	PB006.2-1SWMID-140311-D	11	MS	21	31
2	PB006.2-1SWMID-140311-N	12		22	32
3	HSC14.1-1SWMID-140311-N	13		23	33
4	#1 Dup	14		24	34
5	#1 MS	15		25	35
6	↓ MSD	16		26	36
7	#2 MS	17		27	37
8	↓ MSD	18		28	38
9		19		29	39
10		20		30	40

Notes: \_\_\_\_\_







**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	1	2		
TOC	6.75	5.47	21	
DOC	9.80	9.40	4	

TSS  
V:\FIELD DUPLICATES\FD\_inorganic\31960A6.wpd

11

17

43

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou  
**Collection Date:** March 13, 2014  
**LDC Report Date:** April 24, 2014  
**Matrix:** Water  
**Parameters:** Wet Chemistry  
**Validation Level:** Stage 2B  
**Laboratory:** SGS Analytical Perspective  
**Sample Delivery Group (SDG):** 31400389

**Sample Identification**

PB020-1SWMID-140313-N  
PB031.1-1SWMID-140313-N  
PB047.3-1SWMID-140313-N  
PB056\_C-1SWMID-140313-N  
EF006.1-1SWMID-140313-N  
PB119\_B-1SWMID-140313-N



## Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9060A for Total Organic Carbon and Dissolved Organic Carbon and Standard Method 2540D for Total Suspended Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. Initial Calibration

All criteria for the initial calibration of each method were met.

## III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

## IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

## V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## VIII. Sample Result Verification

The results for the dissolved organic carbon analysis were greater than the total organic compound analysis as follows:

Sample	Concentration (mg/L)	
	Dissolved organic carbon	Total organic carbon
PB056_C-1SWMID-140313-N	12.9	9.34

Raw data were not reviewed for this SDG.

#### **IX. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

#### **X. Field Duplicates**

No field duplicates were identified in this SDG.

#### **XI. Field Blanks**

No field blanks were identified in this SDG.

**Patrick Bayou**  
**Wet Chemistry - Data Qualification Summary - SDG 31400389**

No Sample Data Qualified in this SDG

**Patrick Bayou**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 31400389**

No Sample Data Qualified in this SDG

LDC #: 31690B6

# VALIDATION COMPLETENESS WORKSHEET

Date: 4/24/14

SDG #: 31400389

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical Perspective

Reviewer: ✓

2nd Reviewer: a

**METHOD: (Analyte)** Total Organic Carbon, Dissolved Organic Carbon (EPA SW846 Method 9060), Total Suspended Solids (SM2540D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/13/14
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS/MSD from SM 314 00373
VI.	Duplicates	A	Dup from SM 314 00373
VII.	Laboratory control samples	A	LLS
VIII.	Sample result verification	SW	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

A2

1	PB020-1SWMID-140313-N	11	MB	21		31	
2	PB031.1-1SWMID-140313-N	12		22		32	
3	PB047.3-1SWMID-140313-N	13		23		33	
4	PB056_C-1SWMID-140313-N	14		24		34	
5	EF006.1-1SWMID-140313-N	15		25		35	
6	PB119_B-1SWMID-140313-N	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Analysis Reference**

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-6	A2	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN (TOC) CR <sup>6+</sup> ClO <sub>4</sub> (TSS) Doc
4	↓	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub> (POC)
'		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
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		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou  
**Collection Date:** March 14, 2014  
**LDC Report Date:** April 24, 2014  
**Matrix:** Water  
**Parameters:** Wet Chemistry  
**Validation Level:** Stage 2B  
**Laboratory:** SGS Analytical Perspective  
**Sample Delivery Group (SDG):** 31400395

**Sample Identification**

PB070\_B-2SWMID-140314-N  
PB070\_B-1SWMID-140314-N  
PB079-1SWMID-140314-N  
PB081\_A-1SWMID-140314-N  
PB089-1SWMID-140314-N  
PB085-1SWMID-140314-N  
PB097A-1SWMID-140314-N  
PB070\_B-2SWMID-140314-NDUP



## Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9060A for Total Organic Carbon and Dissolved Organic Carbon and Standard Method 2540D for Total Suspended Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. Initial Calibration

All criteria for the initial calibration of each method were met.

## III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

## IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

## V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## VIII. Sample Result Verification

The results for the dissolved organic carbon analysis were greater than the total organic compound analysis as follows:

Sample	Concentration (mg/L)	
	Dissolved organic carbon	Total organic carbon
PB081_A-1SWMID-140314-N	26.3	16.2

Raw data were not reviewed for this SDG.

#### **IX. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

#### **X. Field Duplicates**

No field duplicates were identified in this SDG.

#### **XI. Field Blanks**

No field blanks were identified in this SDG.

**Patrick Bayou**  
**Wet Chemistry - Data Qualification Summary - SDG 31400395**

No Sample Data Qualified in this SDG

**Patrick Bayou**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 31400395**

No Sample Data Qualified in this SDG

LDC #: 31690C6

# VALIDATION COMPLETENESS WORKSHEET

Date: 4/24/14

SDG #: 31400395

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical Perspective

Reviewer: [Signature]

2nd Reviewer: CL

**METHOD: (Analyte)** Total Organic Carbon, Dissolved Organic Carbon (EPA SW846 Method 9060), Total Suspended Solids (SM2540D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/14/14
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS/MSD from SDG 31400395
VI.	Duplicates	A	
VII.	Laboratory control samples	A	LCG
VIII.	Sample result verification	SW	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples: [Signature]

1	PB070_B-2SWMID-140314-N	11	MM	21	31
2	PB070_B-1SWMID-140314-N	12		22	32
3	PB079-SWMID-140314-N	13		23	33
4	PB081_A-1SWMID-140314-N	14		24	34
5	PB089-1SWMID-140314-N	15		25	35
6	PB085-1SWMID-140314-N	16		26	36
7	PB079A-1SWMID-140314-N	17		27	37
8	97	18		28	38
9	#1 Dup	19		29	39
10		20		30	40

Notes: \_\_\_\_\_





**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou  
**Collection Date:** March 15, 2014  
**LDC Report Date:** April 24, 2014  
**Matrix:** Water  
**Parameters:** Wet Chemistry  
**Validation Level:** Stage 2B  
**Laboratory:** SGS Analytical Perspective  
**Sample Delivery Group (SDG):** 31400411

**Sample Identification**

PB081\_A-2SWMID-140315-N  
PB081\_A-2SWMID-140315-NMS  
PB081\_A-2SWMID-140315-NMSD



## Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9060A for Total Organic Carbon and Standard Method 2540D for Total Suspended Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Initial Calibration**

All criteria for the initial calibration of each method were met.

## **III. Calibration Verification**

Calibration verification frequency and analysis criteria were met for each method when applicable.

## **IV. Blanks**

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

## **V. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **VI. Duplicates**

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## **VII. Laboratory Control Samples**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## **VIII. Sample Result Verification**

Raw data were not reviewed for this SDG.

## **IX. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

## **X. Field Duplicates**

No field duplicates were identified in this SDG.

## **XI. Field Blanks**

No field blanks were identified in this SDG.

**Patrick Bayou**  
**Wet Chemistry - Data Qualification Summary - SDG 31400411**

No Sample Data Qualified in this SDG

**Patrick Bayou**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 31400411**

No Sample Data Qualified in this SDG

LDC #: 31690D6

# VALIDATION COMPLETENESS WORKSHEET

Date: 4/24/14

SDG #: 31400411

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical Perspective

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD: (Analyte)** Total Organic Carbon(EPA SW846 Method 9060), Total Suspended Solids (SM2540D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/15/14
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	
VI.	Duplicates	A	Rep from seq 31400395
VII.	Laboratory control samples	A	MS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

X2

1	PB081_A-2SWMID-140315-N	11	MB	21		31	
2	#1 MS	12		22		32	
3	✓ MSB	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Analysis Reference**

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1	A2	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN (TOC) CR <sup>6+</sup> ClO <sub>4</sub> (TSS) Doc
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
2,3	A2	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN (TOC) CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
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		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou  
**Collection Date:** March 18, 2014  
**LDC Report Date:** April 24, 2014  
**Matrix:** Water  
**Parameters:** Wet Chemistry  
**Validation Level:** Stage 2B  
**Laboratory:** SGS Analytical Perspective  
**Sample Delivery Group (SDG):** 31400420

**Sample Identification**

PB083-1SWMID-140318-N  
PB083-1SWMID-140318-D  
PB087-1SWMID-140318-N  
PB091-1SWMID-140318-N  
PB093-1SWMID-140318-N  
PB095-1SWMID-140318-N  
PB095-1SWMID-140318-NDUP

## Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9060A for Total Organic Carbon and Standard Method 2540D for Total Suspended Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.



## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Initial Calibration**

All criteria for the initial calibration of each method were met.

## **III. Calibration Verification**

Calibration verification frequency and analysis criteria were met for each method when applicable.

## **IV. Blanks**

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

## **V. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **VI. Duplicates**

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## **VII. Laboratory Control Samples**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## **VIII. Sample Result Verification**

Raw data were not reviewed for this SDG.

## **IX. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

## X. Field Duplicates

Samples PB083-1SWMID-140318-N and PB083-1SWMID-140318-D were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
Total organic carbon	10.3	10.2	1
Total suspended solids	5.0	3.6U	200

## XI. Field Blanks

No field blanks were identified in this SDG.

**Patrick Bayou**  
**Wet Chemistry - Data Qualification Summary - SDG 31400420**

No Sample Data Qualified in this SDG

**Patrick Bayou**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 31400420**

No Sample Data Qualified in this SDG

LDC #: 31690E6

# VALIDATION COMPLETENESS WORKSHEET

Date: 4/24/14

SDG #: 31400420

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical Perspective

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: (Analyte) <sup>↓</sup> Total Organic Carbon(EPA SW846 Method 9060), Total Suspended Solids (SM2540D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/18/14
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS/MSD from SDG 31400411 + 31400420
VI.	Duplicates	AH	CS W
VII.	Laboratory control samples	A	LCG
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	CL, = )
XI	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples: A2

1	PB083-1SWMID-140318-N	11	MB	21	31
2	PB083-1SWMID-140318-D	12		22	32
3	PB087-1SWMID-140318-N	13		23	33
4	PB091-1SWMID-140318-N	14		24	34
5	PB093-1SWMID-140318-N	15		25	35
6	PB095-1SWMID-140318-N	16		26	36
7	#6 dup	17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

Notes: \_\_\_\_\_





**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou  
**Collection Date:** March 19, 2014  
**LDC Report Date:** April 24, 2014  
**Matrix:** Water  
**Parameters:** Wet Chemistry  
**Validation Level:** Stage 2B  
**Laboratory:** SGS Analytical Perspective  
**Sample Delivery Group (SDG):** 31400427

**Sample Identification**

PB099-1SWMID-140319-N  
PB099-1SWMID-140319-MD  
PB101.1-1SWMID-140319-N  
PB101.1-1SWMID-140319-NDUP  
PB099-1SWMID-140319-NMS  
PB099-1SWMID-140319-NMSD

## Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9060A for Total Organic Carbon and Dissolved Organic Carbon and Standard Method 2540D for Total Suspended Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.



## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Initial Calibration**

All criteria for the initial calibration of each method were met.

## **III. Calibration Verification**

Calibration verification frequency and analysis criteria were met for each method when applicable.

## **IV. Blanks**

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

## **V. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **VI. Duplicates**

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

## **VII. Laboratory Control Samples**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## **VIII. Sample Result Verification**

Raw data were not reviewed for this SDG.

## **IX. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

## X. Field Duplicates

Samples PB099-1SWMID-140319-N and PB099-1SWMID-140319-MD were identified as method duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	PB099-1SWMID-140319-N	PB099-1SWMID-140319-MD	
Total organic carbon	12.1	11.9	2
Total suspended solids	9.0	6.0	40

## XI. Field Blanks

No field blanks were identified in this SDG.

**Patrick Bayou**  
**Wet Chemistry - Data Qualification Summary - SDG 31400427**

No Sample Data Qualified in this SDG

**Patrick Bayou**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 31400427**

No Sample Data Qualified in this SDG

LDC #: 31690F6

# VALIDATION COMPLETENESS WORKSHEET

Date: 4/14/14

SDG #: 31400427

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical Perspective

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD: (Analyte)** Total Organic Carbon, Dissolved Organic Carbon (EPA SW846 Method 9060), Total Suspended Solids (SM2540D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/19/14
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	
VI.	Duplicates	A	
VII.	Laboratory control samples	A	US
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	Method Duplicates (1,2)
XI	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

AS

1	PB099-1SWMID-140319-N	11	MS	21		31	
2	PB099-1SWMID-140319-MD	12		22		32	
3	PB101.1-1SWMID-140319-N	13		23		33	
4	#3 Dup	14		24		34	
5	#1 US	15		25		35	
6	✓ MSB	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_

VALIDATION FINDINGS WORKSHEET  
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3	HA	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN (TOC) CR <sup>6+</sup> ClO <sub>4</sub> (TSS) Doc
3	✓	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub> (DOC)
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
24	HA	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub> (DOC)
1516	✓	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN (TOC) CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>
		pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> PO <sub>4</sub> ALK CN <sup>-</sup> NH <sub>3</sub> TKN TOC CR <sup>6+</sup> ClO <sub>4</sub>

Comments: \_\_\_\_\_

### VALIDATION FINDINGS WORKSHEET Field Duplicates

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	1	2		
TOC	12.1	11.9	2	

TSS                      9.0                      6.0                      40  
V:\FIELD DUPLICATES\FD\_inorganic\31960F6.wpd

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou Superfund Site  
**Collection Date:** March 11, 2014  
**LDC Report Date:** May 5, 2014  
**Matrix:** Water  
**Parameters:** Polychlorinated Biphenyls as Congeners  
**Validation Level:** Stage 2B  
**Laboratory:** SGS North America, Inc.

**Sample Delivery Group (SDG):** A6492

**Sample Identification**

PB006.2-1SWMID-140311-D (Total)  
PB006.2-1SWMID-140311-D (Dissolved)  
PB006.2-1SWMID-140311-N (Total)  
PB006.2-1SWMID-140311-N (Dissolved)  
HSC14.1-1SWMID-140311-N (Total)

## Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.



## I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

## III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria with the following exceptions:

Date	Standard ID	Compound	Ion Abundance Ratio (Limits)	Associated Samples	Affected Compounds	Flag	A or P
2/5/14	140205S03	PCB-4 to PCB-15	0.00 (1.33-1.79)	All samples in SDG A6492	PCB-4 PCB-5 PCB-6 PCB-7 PCB-8 PCB-9 PCB-10 PCB-11 PCB-12 PCB-13 PCB-14 PCB-15	J (all detects) UJ (all non-detects)	P

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB1_11883	3/14/14	PCB-11	6.09 pg/L	All samples in SDG A6492

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PB006.2-1SWMID-140311-D (Total)	PCB-11	29.8 pg/L	29.8U pg/L
PB006.2-1SWMID-140311-D (Dissolved)	PCB-11	30 pg/L	30U pg/L
HSC14.1-1SWMID-140311-N (Total)	PCB-11	23.3 pg/L	23.3U pg/L

## VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries (%R) were within QC limits.

## X. Target Compound Identifications

Raw data were not reviewed for this SDG.

## XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG A6492	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A

Raw data were not reviewed for this SDG.

## XII. System Performance

Raw data were not reviewed for this SDG.

## XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to initial calibration ion abundance ratio and compound quantitation problems, data were qualified as estimated in five samples.

Due to method blank contamination problems, data were qualified as nondetected in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

## XIV. Field Duplicates

No field duplicates were identified in this SDG.

## XV. Field Blanks

No field blanks were identified in this SDG.

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG A6492**

SDG	Sample	Compound	Flag	A or P	Reason
A6492	PB006.2-1SWMID-140311-D (Total) PB006.2-1SWMID-140311-D (Dissolved) PB006.2-1SWMID-140311-N (Total) PB006.2-1SWMID-140311-N (Dissolved) HSC14.1-1SWMID-140311-N (Total)	PCB-4 PCB-5 PCB-6 PCB-7 PCB-8 PCB-9 PCB-10 PCB-11 PCB-12 PCB-13 PCB-14 PCB-15	J (all detects) UJ (all non-detects)	P	Initial calibration (ion abundance ratio)
A6492	PB006.2-1SWMID-140311-D (Total) PB006.2-1SWMID-140311-D (Dissolved) PB006.2-1SWMID-140311-N (Total) PB006.2-1SWMID-140311-N (Dissolved) HSC14.1-1SWMID-140311-N (Total)	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A	Compound quantitation

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG A6492**

SDG	Sample	Compound	Modified Final Concentration	A or P
A6492	PB006.2-1SWMID-140311-D (Total)	PCB-11	29.8U pg/L	A
A6492	PB006.2-1SWMID-140311-D (Dissolved)	PCB-11	30U pg/L	A
A6492	HSC14.1-1SWMID-140311-N (Total)	PCB-11	23.3U pg/L	A

LDC #: 31690G31

**VALIDATION COMPLETENESS WORKSHEET**

Date: 5-2-14

SDG #: A6492

Stage 2B

Page: 1 of 1

Laboratory: ~~SGS Analytical Perspective~~  
SGS North America

Reviewer: *an*

2nd Reviewer: *an*

**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/11/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	≤ 20
IV.	Continuing calibration/ <del>CV</del>	A	≤ 30/50
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N	C.S.
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation/RL/LOQ/LODs	SW	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples: *Water*

1	PB006.2-1SWMID-140311-D (Total)	11		21		31	
2	PB006.2-1SWMID-140311-D (Dissolved)	12		22		32	
3	PB006.2-1SWMID-140311-N (Total)	13		23		33	
4	PB006.2-1SWMID-140311-N (Dissolved)	14		24		34	
5	HSC14.1-1SWMID-140311-N (Total)	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	MBL-11883	30		40	

## VALIDATION FINDINGS WORKSHEET

### Initial Calibration

**METHOD:** HRGC/HRMS Polychlorinated Biphenyls (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Was the initial calibration performed at 5 concentration levels?
- Y N N/A Were all percent relative standard deviations (%RSD)  $\leq 20\%$  for unlabeled standards and labeled standards?
- Y (N) N/A Did all calibration standards meet the Ion Abundance Ratio criteria?
- Y N N/A Was the signal to noise ratio for each target compound  $\geq 2.5$  and for each recovery and internal standard  $\geq 10$ ?

#	Date	Standard ID	Compound	Finding %RSD	Finding Ion Abundance Ratio	Associated Samples	Qualifications
	02/05/14	140205S03	PCB-4 to PCB-15		0.00 (1.33-1.79)	All	J/UJ/P (PCB-4 to PCB-15, Total Di-CBs) <sup>ab</sup>

Halogen	Selected ions (m/z)	Ion Abundance Ratio	Halogen	Selected ions (m/z)	Ion Abundance Ratio
1 Cl	M/M+2		7 Cl	M/M+2	
2 Cl	M/M+2		7 Cl	M+2/M+4	
3 Cl	M/M+2		8 Cl	M+2/M+4	
4 Cl	M/M+2		9 Cl	M/M+2	
5 Cl	M+2/M+4		9 Cl	M/M-2	
6 Cl	M/M+2		10 Cl	M/M+2	
6 Cl	M+2/M+4				

## VALIDATION FINDINGS WORKSHEET

### Blanks

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were all samples associated with a method blank?

Y  N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?

Y  N N/A Was the method blank contaminated?

**Blank extraction date:** 03/14/14    **Blank analysis date:** 03/24/14    **Associated samples:** All Quel U

**Conc. units:** pg/L

Compound	Blank ID		Sample Identification							
	MB1_11883	5x	1	2	5					
PCB-11	6.09	30.5	29.8	30*	23.3					
<del>Total Di-GBs</del> <span style="margin-left: 20px;"><i>id</i></span>	<del>6.09</del>	<del>30.5</del>								

All contaminants within five times the method blank concentration were qualified as not detected.

**VALIDATION FINDINGS WORKSHEET**  
**Compound Quantitation and Reported CRQLs**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?  
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
			EMPC results	All	Jdets/A

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Laboratory Data Consultants, Inc.**  
**Data Validation Report**

**Project/Site Name:** Patrick Bayou Superfund Site  
**Collection Date:** March 13, 2014  
**LDC Report Date:** May 5, 2014  
**Matrix:** Water  
**Parameters:** Polychlorinated Biphenyls as Congeners  
**Validation Level:** Stage 2B  
**Laboratory:** SGS North America, Inc.

**Sample Delivery Group (SDG):** A6504

**Sample Identification**

PB020-1SWMID-140313-N (TOTAL)  
PB031.1-1SWMID-140313-N (TOTAL)  
PB047.3-1SWMID-140313-N (TOTAL)  
PB056\_C-1SWMID-140313-N (TOTAL)  
PB056\_C-1SWMID-140313-N (DISSOLVED)  
EF006.1-1SWMID-140313-N (TOTAL)  
PB119\_B-1SWMID-140313-N (TOTAL)  
EB1-01 (TOTAL)  
EB1-01 (DISSOLVED)

## Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB1_11892	3/18/14	PCB-118 PCB-11 PCB-31 PCB-28/20 PCB-52 PCB-69/49 PCB-44/47/65 PCB-61/70/74/76 PCB-95 PCB-113/90/101 PCB-110 PCB-147/149 PCB-153/168 PCB-163/138/129	2.52 pg/L 8.96 pg/L 2.28 pg/L 2.49 pg/L 4.39 pg/L 2 pg/L 3.07 pg/L 2.85 pg/L 3.83 pg/L 4.13 pg/L 2.77 pg/L 2.56 pg/L 2.84 pg/L 2.82 pg/L	All samples in SDG A6504

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PB020-1SWMID-140313-N (TOTAL)	PCB-11	30.7 pg/L	30.7U pg/L
PB031.1-1SWMID-140313-N (TOTAL)	PCB-11	23.5 pg/L	23.5U pg/L
PB047.3-1SWMID-140313-N (TOTAL)	PCB-11	18.8 pg/L	18.8U pg/L
PB056_C-1SWMID-140313-N (TOTAL)	PCB-11	30.9 pg/L	30.9U pg/L
PB056_C-1SWMID-140313-N (DISSOLVED)	PCB-11	24.3 pg/L	24.3U pg/L
EF006.1-1SWMID-140313-N (TOTAL)	PCB-11	23.1 pg/L	23.1U pg/L
PB119_B-1SWMID-140313-N (TOTAL)	PCB-11 PCB-69/49 PCB-95 PCB-113/90/101	15 pg/L 9.2 pg/L 16 pg/L 19.3 pg/L	15U pg/L 9.2U pg/L 16U pg/L 19.3U pg/L
EB1-01 (TOTAL)	PCB-118 PCB-11 PCB-31 PCB-28/20 PCB-52 PCB-69/49 PCB-95 PCB-113/90/101 PCB-110 PCB-147/149 PCB-153/168 PCB-163/138/129	2.66 pg/L 13 pg/L 3.3 pg/L 4.85 pg/L 4.45 pg/L 2.85 pg/L 4.66 pg/L 4.16 pg/L 4.57 pg/L 4.57 pg/L 2.32 pg/L 4.18 pg/L	2.66U pg/L 13U pg/L 3.3U pg/L 4.85U pg/L 4.45U pg/L 2.85U pg/L 4.66U pg/L 4.16U pg/L 4.57U pg/L 4.57U pg/L 2.32U pg/L 4.18U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
EB1-01 (DISSOLVED)	PCB-118	1.73 pg/L	1.73U pg/L
	PCB-11	11.6 pg/L	11.6U pg/L
	PCB-31	3.09 pg/L	3.09U pg/L
	PCB-28/20	4.76 pg/L	4.76U pg/L
	PCB-52	4.05 pg/L	4.05U pg/L
	PCB-69/49	2.45 pg/L	2.45U pg/L
	PCB-61/70/74/76	4.48 pg/L	4.48U pg/L
	PCB-95	3.45 pg/L	3.45U pg/L
	PCB-113/90/101	3.32 pg/L	3.32U pg/L
	PCB-110	3.51 pg/L	3.51U pg/L
	PCB-147/149	2.57 pg/L	2.57U pg/L
PCB-153/168	2.29 pg/L	2.29U pg/L	

## VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries (%R) were within QC limits.

## X. Target Compound Identifications

Raw data were not reviewed for this SDG.

## XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG A6504	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A

Raw data were not reviewed for this SDG.

## XII. System Performance

Raw data were not reviewed for this SDG.

## XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to compound quantitation problems, data were qualified as estimated in nine samples.

Due to method blank contamination problems, data were qualified as nondetected in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

## XIV. Field Duplicates

No field duplicates were identified in this SDG.

## XV. Field Blanks

Samples EB-1-01 (TOTAL) and EB1-01 (DISSOVLED) were identified as equipment blanks. No polychlorinated biphenyls as congeners contaminants were found with the following exceptions:

Blank ID	Compound	Concentration (pg/L)
EB-1-01 (TOTAL)	PCB-118	2.66
	PCB-8	3.13
	PCB-11	13
	PCB-17	8.35
	PCB-31	3.3
	PCB-28/20	4.85
	PCB-21/33	4.52
	PCB-51	81.8
	PCB-52	4.45
	PCB-69/49	2.85
	PCB-44/47/65	29.3
	PCB-68	37.1
	PCB-95	4.66
	PCB-113/90/101	4.16
	PCB-110	4.57
	PCB-147/149	4.57
	PCB-153/168	2.32
	PCB-163/138/129	4.18
PCB-187	1.86	
PCB-180/193	2.84	

Blank ID	Compound	Concentration (pg/L)
EB1-01 (DISSOVLED)	PCB-118	1.73
	PCB-11	11.6
	PCB-17	5.99
	PCB-25	2.98
	PCB-31	3.09
	PCB-28/20	4.76
	PCB-21/33	4.35
	PCB-22	1.95
	PCB-51	52.5
	PCB-52	4.05
	PCB-69/49	2.45
	PCB-44/47/65	22.2
	PCB-68	33.1
	PCB-61/70/74/76	4.48
	PCB-66	2.47
	PCB-95	3.45
	PCB-113/90/101	3.32
	PCB-110	3.51
	PCB-147/149	2.57
	PCB-153/168	2.29

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG A6504**

SDG	Sample	Compound	Flag	A or P	Reason
A6504	PB020-1SWMID-140313-N (TOTAL) PB031.1-1SWMID-140313-N (TOTAL) PB047.3-1SWMID-140313-N (TOTAL) PB056_C-1SWMID-140313-N (TOTAL) PB056_C-1SWMID-140313-N (DISSOLVED) EF006.1-1SWMID-140313-N (TOTAL) PB119_B-1SWMID-140313-N (TOTAL) EB1-01 (TOTAL) EB1-01 (DISSOLVED)	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A	Compound quantitation

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG A6504**

SDG	Sample	Compound	Modified Final Concentration	A or P
A6504	PB020-1SWMID-140313-N (TOTAL)	PCB-11	30.7U pg/L	A
A6504	PB031.1-1SWMID-140313-N (TOTAL)	PCB-11	23.5U pg/L	A
A6504	PB047.3-1SWMID-140313-N (TOTAL)	PCB-11	18.8U pg/L	A
A6504	PB056_C-1SWMID-140313-N (TOTAL)	PCB-11	30.9U pg/L	A
A6504	PB056_C-1SWMID-140313-N (DISSOLVED)	PCB-11	24.3U pg/L	A
A6504	EF006.1-1SWMID-140313-N (TOTAL)	PCB-11	23.1U pg/L	A
A6504	PB119_B-1SWMID-140313-N (TOTAL)	PCB-11 PCB-69/49 PCB-95 PCB-113/90/101	15U pg/L 9.2U pg/L 16U pg/L 19.3U pg/L	A
A6504	EB1-01 (TOTAL)	PCB-118 PCB-11 PCB-31 PCB-28/20 PCB-52 PCB-69/49 PCB-95 PCB-113/90/101 PCB-110 PCB-147/149 PCB-153/168 PCB-163/138/129	2.66U pg/L 13U pg/L 3.3U pg/L 4.85U pg/L 4.45U pg/L 2.85U pg/L 4.66U pg/L 4.16U pg/L 4.57U pg/L 4.57U pg/L 2.32U pg/L 4.18U pg/L	A



SDG	Sample	Compound	Modified Final Concentration	A or P
A6504	EB1-01 (DISSOLVED)	PCB-118 PCB-11 PCB-31 PCB-28/20 PCB-52 PCB-69/49 PCB-61/70/74/76 PCB-95 PCB-113/90/101 PCB-110 PCB-147/149 PCB-153/168	1.73U pg/L 11.6U pg/L 3.09U pg/L 4.76U pg/L 4.05U pg/L 2.45U pg/L 4.48U pg/L 3.45U pg/L 3.32U pg/L 3.51U pg/L 2.57U pg/L 2.29U pg/L	A

LDC #: 31690H31

**VALIDATION COMPLETENESS WORKSHEET**

Date: 5-2-14

SDG #: A6504

Stage 2B

Page: 1 of 1

Laboratory: ~~SGS Analytical Perspective~~  
SGS North America

Reviewer: *[Signature]*  
2nd Reviewer: *[Signature]*

**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/13/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	≤ 20
IV.	Continuing calibration/CEV	A	≤ 30/50
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N	C-S.
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation/RL/LOQ/LODs	SW	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	SW	EB = 8, 9

Note: A = Acceptable      ND = No compounds detected      D = Duplicate  
 N = Not provided/applicable      R = Rinstate      TB = Trip blank  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

Validated Samples: *water*

1	PB020-1SWMID-140313-N (TOTAL)	11		21		31	
2	PB031.1-1SWMID-140313-N (TOTAL)	12		22		32	
3	PB047.3-1SWMID-140313-N (TOTAL)	13		23		33	
4	PB056_C-1SWMID-140313-N (TOTAL)	14		24		34	
5	PB056_C-1SWMID-140313-N (DISSOLVED)	15		25		35	
6	EF006.1-1SWMID-140313-N (TOTAL)	16		26		36	
7	PB119_B-1SWMID-140313-N (TOTAL)	17		27		37	
8	EB1-01 (TOTAL)	18		28		38	
9	EB1-01 (DISSOLVED)	19		29		39	
10		20	MB1-11892	30		40	

## VALIDATION FINDINGS WORKSHEET Blanks

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y  N  N/A Were all samples associated with a method blank?
- Y  N  N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
- Y  N  N/A Was the method blank contaminated?

Blank extraction date: 03/18/14    Blank analysis date: 03/26/14    Associated samples: All    Qual U  
Conc. units: pg/L

Compound	Blank ID		Sample Identification								
	MB1_11892	5x	1	2	3	4	5	6	7	8	9
PCB-118	2.52	12.6								2.66	1.73*
PCB-11	8.96	44.8	30.7	23.5	18.8*	30.9	24.3	23.1	15	13	11.6
PCB-31	2.28*	11.4								3.3	3.09
PCB-28/20	2.49*	12.5								4.85	4.76
PCB-52	4.39*	22.0								4.45*	4.05*
PCB-69/49	2	10.0							9.2	2.85	2.45
PCB-44/47/65	3.07*	15.4									
PCB-61/70/74/76	2.85	14.3									4.48
PCB-95	3.83*	19.2							16	4.66	3.45*
PCB-113/90/101	4.13	20.7							19.3	4.16	3.32
PCB-110	2.77*	13.9								4.57	3.51
PCB-147/149	2.56*	12.8								4.57*	2.57
PCB-153/168	2.84	14.2								2.32*	2.29
PCB-163/138/129	2.82	14.1								4.18*	
Total Di-CBs	8.96	44.8									11.6
Total Tri-CBs	4.77*	23.9									
Total Tetra-CBs	12.3*	61.5									

### VALIDATION FINDINGS WORKSHEET Compound Quantitation and Reported CRQLs

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A  
Y N N/A

Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?  
Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
			EMPC results	All	Jdets/A

Comments: \_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners EPA Method 1668A

N N/A Were field blanks identified in this SDG?  
 N N/A Were target compounds detected in the field blanks?

**Sample:** EB (8) Field Blank / Trip Blank / Rinsate (circle one)

Compound	Concentration Units ( pg/L )
PCB-118	2.66
PCB-8	3.13
PCB-11	13
PCB-17	8.35
PCB-31	3.3
PCB-28/20	4.85
PCB-21/33	4.52*
PCB-51	81.8
PCB-52	4.45*
PCB-69/49	2.85
PCB-44/47/65	29.3
PCB-68	37.1
PCB-95	4.66
PCB-113/90/101	4.16
PCB-110	4.57
PCB-147/149	4.57*
PCB-153/168	2.32*
PCB-163/138/129	4.18*
PCB-187	1.86*
PCB-180/193	2.84
<del>Total Di-CBs</del>	<del>16.1</del>
<del>Total Tri-CBs</del>	<del>21*</del>
<del>Total Tetra-CBs</del>	<del>155*</del>
<del>Total Penta-CBs</del>	<del>16.1</del>
<del>Total Hexa-CBs</del>	<del>11.1*</del>
<del>Total Hepta-CBs</del>	<del>4.69*</del>

\*EMPC

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners EPA Method 1668A

N N/A Were field blanks identified in this SDG?  
 Y N N/A Were target compounds detected in the field blanks?

Sample: EB (9) Field Blank / Trip Blank / Rinsate (circle one)

Compound	Concentration Units ( pg/L )
PCB-118	1.73*
PCB-11	11.6
PCB-17	5.99
PCB-25	2.98
PCB-31	3.09
PCB-28/20	4.76
PCB-21/33	4.35*
PCB-22	1.95*
PCB-51	52.5
PCB-52	4.05*
PCB-69/49	2.45
PCB-44/47/65	22.2
PCB-68	33.1
PCB-61/70/74/76	4.48
PCB-66	2.47
PCB-95	3.45*
PCB-113/90/101	3.32
PCB-110	3.51
PCB-147/149	2.57
PCB-153/168	2.29
<del>Total Di-CBs</del>	<del>11.6</del>
<del>Total Tri-CBs</del>	<del>23.1*</del>
<del>Total Tetra-CBs</del>	<del>121*</del>
<del>Total Penta-CBs</del>	<del>12*</del>
<del>Total Hexa-CBs</del>	<del>4.86</del>

\*EMPC

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Patrick Bayou Superfund Site  
**Collection Date:** March 14, 2014  
**LDC Report Date:** May 8, 2014  
**Matrix:** Water  
**Parameters:** Polychlorinated Biphenyls as Congeners  
**Validation Level:** Stage 2B  
**Laboratory:** SGS North America, Inc.

**Sample Delivery Group (SDG):** A6506

### Sample Identification

PB070\_B-2SWMID-140314-N (TOTAL)  
PB070\_B-1SWMID-140314-N (TOTAL)  
PB079-1SWMID-140314-N (TOTAL)  
PB081\_A-1SWMID-140314-N (TOTAL)  
PB081\_A-1SWMID-140314-N (DISSOLVED)  
PB089-1SWMID-140314-N (TOTAL)  
PB085-1SWMID-140314-N (TOTAL)  
PB097A-1SWMID-140314-N (TOTAL)

## Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.



## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB1_11899	3/19/14	PCB-105 PCB-118 PCB-8 PCB-11 PCB-30/18 PCB-31 PCB-28/20 PCB-21/33 PCB-52 PCB-69/49 PCB-44/47/65 PCB-61/70/74/76 PCB-66 PCB-95 PCB-84 PCB-113/90/101 PCB-99 PCB-108/119/86/97/125/87 PCB-116/85 PCB-110 PCB-136 PCB-147/149 PCB-132 PCB-153/168 PCB-163/138/129 PCB-180/193	1.06 pg/L 2.29 pg/L 1.64 pg/L 7.71 pg/L 2.66 pg/L 2.29 pg/L 2.34 pg/L 1.53 pg/L 3.95 pg/L 1.78 pg/L 2.6 pg/L 2.76 pg/L 1.4 pg/L 3.4 pg/L 0.983 pg/L 3.6 pg/L 1.71 pg/L 2.7 pg/L 0.686 pg/L 3.95 pg/L 0.87 pg/L 3.22 pg/L 1.79 pg/L 2.53 pg/L 3.12 pg/L 1.57 pg/L	All samples in SDGA6506

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PB070_B-2SWMID-140314-N (TOTAL)	PCB-11	36.3 pg/L	36.3U pg/L
PB070_B-1SWMID-140314-N (TOTAL)	PCB-11	35 pg/L	35U pg/L
PB079-1SWMID-140314-N (TOTAL)	PCB-11	28.1 pg/L	28.1U pg/L
PB081_A-1SWMID-140314-N (TOTAL)	PCB-11	29 pg/L	29U pg/L
PB081_A-1SWMID-140314-N (DISSOLVED)	PCB-11	34.5 pg/L	34.5U pg/L
PB089-1SWMID-140314-N (TOTAL)	PCB-11	37.4 pg/L	37.4U pg/L
PB085-1SWMID-140314-N (TOTAL)	PCB-11	30.7 pg/L	30.7U pg/L
PB097A-1SWMID-140314-N (TOTAL)	PCB-11 PCB-136	24.1 pg/L 4.17 pg/L	24.1U pg/L 4.17U pg/L

## VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries (%R) were within QC limits.

## X. Target Compound Identifications

Raw data were not reviewed for this SDG.

## XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDGA6506	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A

Raw data were not reviewed for this SDG.

## XII. System Performance

Raw data were not reviewed for this SDG.

## XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to compound quantitation problems, data were qualified as estimated in eight samples.

Due to method blank contamination problems, data were qualified as nondetected in eight samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

#### **XIV. Field Duplicates**

No field duplicates were identified in this SDG.

#### **XV. Field Blanks**

No field blanks were identified in this SDG.

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG A6506**

SDG	Sample	Compound	Flag	A or P	Reason
A6506	PB070_B-2SWMID-140314-N (TOTAL) PB070_B-1SWMID-140314-N (TOTAL) PB079-1SWMID-140314-N (TOTAL) PB081_A-1SWMID-140314-N (TOTAL) PB081_A-1SWMID-140314-N (DISSOLVED) PB089-1SWMID-140314-N (TOTAL) PB085-1SWMID-140314-N (TOTAL) PB097A-1SWMID-140314-N (TOTAL)	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A	Compound quantitation

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG A6506**

SDG	Sample	Compound	Modified Final Concentration	A or P
A6506	PB070_B-2SWMID-140314-N (TOTAL)	PCB-11	36.3U pg/L	A
A6506	PB070_B-1SWMID-140314-N (TOTAL)	PCB-11	35U pg/L	A
A6506	PB079-1SWMID-140314-N (TOTAL)	PCB-11	28.1U pg/L	A
A6506	PB081_A-1SWMID-140314-N (TOTAL)	PCB-11	29U pg/L	A
A6506	PB081_A-1SWMID-140314-N (DISSOLVED)	PCB-11	34.5U pg/L	A
A6506	PB089-1SWMID-140314-N (TOTAL)	PCB-11	37.4U pg/L	A
A6506	PB085-1SWMID-140314-N (TOTAL)	PCB-11	30.7U pg/L	A
A6506	PB097A-1SWMID-140314-N (TOTAL)	PCB-11 PCB-136	24.1U pg/L 4.17U pg/L	A

LDC #: 31690131

**VALIDATION COMPLETENESS WORKSHEET**

Date: 5-7-14

SDG #: A6506

Stage 2B

Page: 1 of 1

Laboratory: ~~SGS Analytical Perspective~~Reviewer: *CR*2nd Reviewer: *CR***METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/4/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	≤ 20
IV.	Continuing calibration/ <del>ICV</del>	A	≤ 30/50
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N	C.S.
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation/RL/ <del>LOQ/LODs</del>	SW	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples: *Water*

1	PB070_B-2SWMID-140314-N (TOTAL)	11		21		31	
2	PB070_B-1SWMID-140314-N (TOTAL)	12		22		32	
3	PB079-1SWMID-140314-N (TOTAL)	13		23		33	
4	PB081_A-1SWMID-140314-N (TOTAL)	14		24		34	
5	PB081_A-1SWMID-140314-N (DISSOLVED)	15		25		35	
6	PB089-1SWMID-140314-N (TOTAL)	16		26		36	
7	PB085-1SWMID-140314-N (TOTAL)	17		27		37	
8	PB097A-1SWMID-140314-N (TOTAL)	18		28		38	
9		19		29		39	
10		20	MBL-11899	30		40	

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y  N  N/A Were all samples associated with a method blank?
- Y  N  N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
- Y  N  N/A Was the method blank contaminated?

Blank extraction date: 03/19/14    Blank analysis date: 03/27/14    Associated samples: All Qual U  
Conc. units: pg/L

Compound	Blank ID		Sample Identification							
	MB1_11899	5x	1	2	3	4	5	6	7	8
PCB-105	1.06	5.3								
PCB-118	2.29	11.5								
PCB-8	1.64	8.2								
PCB-11	7.71	38.6	36.3	35	28.1	29	34.5	37.4	30.7	24.1
PCB-30/18	2.66	13.3								
PCB-31	2.29	11.5								
PCB-28/20	2.34*	11.7								
PCB-21/33	1.53	7.7								
PCB-52	3.95	19.8								
PCB-69/49	1.78	8.9								
PCB-44/47/65	2.6	13.0								
PCB-61/70/74/76	2.76*	13.8								
PCB-66	1.4	7.0								
PCB-95	3.4	17.0								
PCB-84	0.983*	4.9								
PCB-113/90/101	3.6	18.0								
PCB-99	1.71	8.6								

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Compound	Blank ID		Sample Identification							
	MB1_11899	5x	1	2	3	4	5	6	7	8
PCB-108/119/86/97/125/87	2.7*	13.5								
PCB-116/85	0.686	3.4								
PCB-110	3.95	19.8								
PCB-136	0.87	4.4							4.17	
PCB-147/149	3.22	16.1								
PCB-132	1.79	9.0								
PCB-153/168	2.53	12.7								
PCB-163/138/129	3.12	15.6								
PCB-180/193	1.57	7.9								
<del>Total Di-CBs</del>	<del>9.36</del>	<del>46.8</del>								
<del>Total Tri-CBs</del>	<del>8.82*</del>	<del>44.1</del>								
<del>Total Tetra-CBs</del>	<del>12.5*</del>	<del>62.5</del>								
<del>Total Penta-CBs</del>	<del>20.4*</del>	<del>102.0</del>								
<del>Total Hexa-CBs</del>	<del>11.5</del>	<del>57.5</del>								
<del>Total Hepta-CBs</del>	<del>1.57</del>	<del>7.9</del>								

\*EMPC

All contaminants within five times the method blank concentration were qualified as not detected.



**VALIDATION FINDINGS WORKSHEET**  
**Compound Quantitation and Reported CRQLs**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?  
 Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
			EMPC results	All	Jdets/A

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou Superfund Site  
**Collection Date:** March 15, 2014  
**LDC Report Date:** May 8, 2014  
**Matrix:** Water  
**Parameters:** Polychlorinated Biphenyls as Congeners  
**Validation Level:** Stage 2B  
**Laboratory:** SGS North America, Inc.  
**Sample Delivery Group (SDG):** A6517

**Sample Identification**

PB081\_A-2SWMID-140315-N

## Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB1_11903	3/20/14	PCB-118	2.91 pg/L	All samples in SDGA6517
		PCB-1	1.08 pg/L	
		PCB-3	1.69 pg/L	
		PCB-11	8.82 pg/L	
		PCB-31	1.96 pg/L	
		PCB-28/20	2.82 pg/L	
		PCB-21/33	2.06 pg/L	
		PCB-52	5.34 pg/L	
		PCB-69/49	2 pg/L	
		PCB-44/47/65	3.67 pg/L	
		PCB-61/70/74/76	3.84 pg/L	
		PCB-95	4.27 pg/L	
		PCB-113/90/101	4.17 pg/L	
		PCB-99	1.67 pg/L	
		PCB-108/119/86/97/125/87	2.67 pg/L	
		PCB-110	5.2 pg/L	
		PCB-151/135	2 pg/L	
PCB-147/149	3.55 pg/L			
PCB-132	2.01 pg/L			
PCB-153/168	2.85 pg/L			
PCB-163/138/129	2.96 pg/L			

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PB081_A-2SWMID-140315-N	PCB-3	3.18 pg/L	3.18U pg/L
	PCB-11	20.4 pg/L	20.4U pg/L

## VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
MB1_11903	13C PCB-104	158 (25-150)	PCB-96 PCB-104	J (all detects) UJ (all non-detects)	P

## X. Target Compound Identifications

Raw data were not reviewed for this SDG.

## XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDGA6517	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A

Raw data were not reviewed for this SDG.

## XII. System Performance

Raw data were not reviewed for this SDG.

## XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to method blank contamination problems, data were qualified as nondetected in one samples.

Due to compound quantitation problems, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

#### **XIV. Field Duplicates**

No field duplicates were identified in this SDG.

#### **XV. Field Blanks**

No field blanks were identified in this SDG.

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG A6517**

SDG	Sample	Compound	Flag	A or P	Reason
A6517	PB081_A-2SWMID-140315-N	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A	Compound quantitation

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG A6517**

SDG	Sample	Compound	Modified Final Concentration	A or P
A6517	PB081_A-2SWMID-140315-N	PCB-3 PCB-11	3.18U pg/L 20.4U pg/L	A



LDC #: 31690J31  
 SDG #: A6517  
 Laboratory: SGS Analytical Perspective

**VALIDATION COMPLETENESS WORKSHEET**  
 Stage 2B

Date: 5-7-14  
 Page: 1 of 1  
 Reviewer: Th  
 2nd Reviewer: o

**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>3/15/14</u>
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	<u>≤ 20</u>
IV.	Continuing calibration/ <del>ICV</del>	A	<u>≤ 30/50</u>
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N	<u>C.S.</u>
VII.	Laboratory control samples	A	<u>OPR</u>
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	SW	
X.	Target compound identifications	N	
XI.	Compound quantitation/ <del>RL/LOQ/LODs</del>	SW	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable      ND = No compounds detected      D = Duplicate  
 N = Not provided/applicable      R = Rinsate      TB = Trip blank  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

Validated Samples: Water

1	PB081_A-2SWMID-140315-N	11		21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	<u>MB1-11903</u>	30		40	

## VALIDATION FINDINGS WORKSHEET

### Blanks

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were all samples associated with a method blank?

Y  N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?

Y  N N/A Was the method blank contaminated?

**Blank extraction date:** 03/20/14    **Blank analysis date:** 03/28/14    **Associated samples:** All Qual U

**Conc. units:** pg/L

Compound	Blank ID		Sample Identification							
	MB1_11903	5x	1							
PCB-118	2.91	14.6								
PCB-1	1.08	5.4								
PCB-3	1.69	8.5	3.18							
PCB-11	8.82	44.1	20.4							
PCB-31	1.96*	9.8								
PCB-28/20	2.82*	14.1								
PCB-21/33	2.06	10.3								
PCB-52	5.34	26.7								
PCB-69/49	2*	10.0								
PCB-44/47/65	3.67	18.4								
PCB-61/70/74/76	3.84	19.2								
PCB-95	4.27	21.4								
PCB-113/90/101	4.17*	20.9								
PCB-99	1.67*	8.4								
PCB-108/119/86/97/125/87	2.67*	13.4								
PCB-110	5.2	26.0								
PCB-151/135	2	10.0								

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Compound	Blank ID		Sample Identification							
	MB1_11903	5x	1							
PCB-147/149	3.55	17.8								
PCB-132	2.01*	10.1								
PCB-153/168	2.85*	14.3								
PCB-163/138/129	2.96	14.8								
<del>Total Mono-CBs</del>	<del>2.77</del>	<del>13.9</del>								
<del>Total Di-CBs</del>	<del>8.82</del>	<del>44.1</del>								
<del>Total Tri-CBs</del>	<del>6.84*</del>	<del>34.2</del>								
<del>Total Tetra-CBs</del>	<del>14.8*</del>	<del>74.0</del>								
<del>Total Penta-CBs</del>	<del>20.9*</del>	<del>104.5</del>								
<del>Total Hexa-CBs</del>	<del>13.4*</del>	<del>67.0</del>								

\*EMPC

All contaminants within five times the method blank concentration were qualified as not detected.



**VALIDATION FINDINGS WORKSHEET**  
**Compound Quantitation and Reported CRQLs**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?  
 Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
			EMPC results	All	Jdets/A

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou Superfund Site  
**Collection Date:** March 18, 2014  
**LDC Report Date:** May 8, 2014  
**Matrix:** Water  
**Parameters:** Polychlorinated Biphenyls as Congeners  
**Validation Level:** Stage 2B  
**Laboratory:** SGS North America, Inc.  
**Sample Delivery Group (SDG):** A6521

**Sample Identification**

PB083-1SWMID-140318-N  
PB083-1SWMID-140318-D  
PB087-1SWMID-140318-N  
PB091-1SWMID-140318-N  
PB093-1SWMID-140318-N  
PB095-1SWMID-140318-N

## Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

## **V. Blanks**

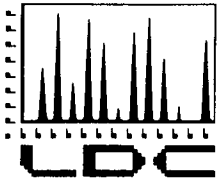
Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:



Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB1_11903	3/20/14	PCB-118 PCB-1 PCB-3 PCB-11 PCB-31 PCB-28/20 PCB-21/33 PCB-52 PCB-69/49 PCB-44/47/65 PCB-61/70/74/76 PCB-95 PCB-113/90/101 PCB-99 PCB-108/119/86/97/125/87 PCB-110 PCB-151/135 PCB-147/149 PCB-132 PCB-153/168 PCB-163/138/129	2.91 pg/L 1.08 pg/L 1.69 pg/L 8.82 pg/L 1.96 pg/L 2.82 pg/L 2.06 pg/L 5.34 pg/L 2 pg/L 3.67 pg/L 3.84 pg/L 4.27 pg/L 4.17 pg/L 1.67 pg/L 2.67 pg/L 5.2 pg/L 2 pg/L 3.55 pg/L 2.01 pg/L 2.85 pg/L 2.96 pg/L	All samples in SDG A6521

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PB083-1SWMID-140318-N	PCB-3 PCB-11	5.7 pg/L 22.7 pg/L	5.7U pg/L 22.7U pg/L
PB083-1SWMID-140318-D	PCB-3 PCB-11	4.96 pg/L 21.2 pg/L	4.96U pg/L 21.2U pg/L
PB087-1SWMID-140318-N	PCB-3 PCB-11	6.04 pg/L 26.3 pg/L	6.04U pg/L 26.3U pg/L
PB091-1SWMID-140318-N	PCB-3 PCB-11	5.96 pg/L 30.6 pg/L	5.96U pg/L 30.6U pg/L
PB093-1SWMID-140318-N	PCB-3 PCB-11	5.06 pg/L 27.6 pg/L	5.06U pg/L 27.6U pg/L
PB095-1SWMID-140318-N	PCB-3 PCB-11	5.66 pg/L 26.2 pg/L	5.66U pg/L 26.2U pg/L



# LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Anchor QEA, LLC  
720 Olive Way, Suite 900  
Seattle, WA 98101  
ATTN: Ms. Cindy Fields

May 21, 2014

SUBJECT: Revised Patrick Bayou, Data Validation

Dear Ms. Fields,

Enclosed is the revised validation report for the fraction listed below. Please replace the previously submitted report with the enclosed revised report.

**LDC Project #31690:**

**SDG #**

**Fraction**

A6528

Polychlorinated Biphenyls as Congeners

- Revised to correct the field duplicate IDs

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink  
Project Manager/Chemist

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Patrick Bayou Superfund Site  
**Collection Date:** March 19, 2014  
**LDC Report Date:** May 21, 2014  
**Matrix:** Water  
**Parameters:** Polychlorinated Biphenyls as Congeners  
**Validation Level:** Stage 2B  
**Laboratory:** SGS North America, Inc.

**Sample Delivery Group (SDG):** A6528

**Sample Identification**

PB099-1SWMID-140319-N (TOTAL)  
PB099-1SWMID-140319-MD (TOTAL)  
PB101.1-1SWMID-140319-N (TOTAL)  
PB101.1-1SWMID-140319-N (DISSOLVED)

## Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB1_11906	3/21/14	PCB-105 PCB-118 PCB-11 PCB-31 PCB-28/20 PCB-52 PCB-69/49 PCB-44/47/65 PCB-61/70/74/76 PCB-66 PCB-95 PCB-113/90/101 PCB-99 PCB-108/119/86/97/125/87 PCB-110 PCB-136 PCB-151/135 PCB-147/149 PCB-132 PCB-146 PCB-153/168 PCB-163/138/129 PCB-209	1.59 pg/L 2.96 pg/L 10.2 pg/L 2.06 pg/L 2.88 pg/L 5.29 pg/L 2.11 pg/L 3.59 pg/L 4.02 pg/L 1.89 pg/L 4.79 pg/L 4.4 pg/L 1.95 pg/L 4.19 pg/L 5.96 pg/L 0.662 pg/L 1.64 pg/L 3.63 pg/L 1.52 pg/L 1.1 pg/L 3.47 pg/L 3.99 pg/L 1.01 pg/L	All samples in SDG A6528

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PB099-1SWMID-140319-N (TOTAL)	PCB-11 PCB-146 PCB-209	23 pg/L 4.71 pg/L 2.41 pg/L	23U pg/L 4.71U pg/L 2.41U pg/L
PB099-1SWMID-140319-MD (TOTAL)	PCB-11 PCB-146 PCB-209	23.5 pg/L 4.76 pg/L 2.95 pg/L	23.5U pg/L 4.76U pg/L 2.95U pg/L
PB101.1-1SWMID-140319-N (TOTAL)	PCB-11 PCB-146 PCB-209	26.9 pg/L 5.37 pg/L 3.08 pg/L	26.9U pg/L 5.37U pg/L 3.08U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
PB101.1-1SWMID-140319-N (DISSOLVED)	PCB-105	4.55 pg/L	4.55U pg/L
	PCB-118	10.2 pg/L	10.2U pg/L
	PCB-11	22 pg/L	22U pg/L
	PCB-95	19.5 pg/L	19.5U pg/L
	PCB-113/90/101	17.2 pg/L	17.2U pg/L
	PCB-99	8.58 pg/L	8.58U pg/L
	PCB-108/119/86/97/125/87	14.5 pg/L	14.5U pg/L
	PCB-110	21.5 pg/L	21.5U pg/L
	PCB-136	1.45 pg/L	1.45U pg/L
	PCB-151/135	3.17 pg/L	3.17U pg/L
	PCB-147/149	6.31 pg/L	6.31U pg/L
	PCB-132	2.47 pg/L	2.47U pg/L
	PCB-146	1.12 pg/L	1.12U pg/L
	PCB-153/168	5.53 pg/L	5.53U pg/L
	PCB-163/138/129	7.93 pg/L	7.93U pg/L
	PCB-209	1.18 pg/L	1.18U pg/L

## VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries (%R) were within QC limits.

## X. Target Compound Identifications

Raw data were not reviewed for this SDG.

## XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG A6528	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A

Raw data were not reviewed for this SDG.

## XII. System Performance

Raw data were not reviewed for this SDG.

## XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to method blank contamination problems, data were qualified as nondetected in four samples.

Due to compound quantitation problems, data were qualified as estimated in four samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

## XIV. Field Duplicates

Samples PB099-1SWMID-140319-N (TOTAL) and PB099-1SWMID-140319-MD (TOTAL) were identified as method duplicates. No polychlorinated biphenyls as congeners were detected in any of the samples with the following exceptions:

Compound	Concentration (pg/L)		RPD
	PB099-1SWMID-140319-MD (TOTAL)	PB099-1SWMID-140319-N (TOTAL)	
PCB-001	13.1	16.7	24
PCB-002	2.26	3.71	49
PCB-003	5.06	8.82	54
PCB-004	85.4	92.3	8
PCB-006	44.7	53	17
PCB-007	1.96	3.84U	200
PCB-008	32.8	39	17
PCB-009	2.69	4.4U	200
PCB-010	2.84	5.41U	200
PCB-011	23.5	23	2



Compound	Concentration (pg/L)		RPD
	PB099-1SWMID-140319-MD (TOTAL)	PB099-1SWMID-140319-N (TOTAL)	
PCB-012/013	15.4	17.4	12
PCB-015	21.7	23.5	8
PCB-016	68.3	70.6	3
PCB-017	95.3	87.9	8
PCB-018/030	203	201	1
PCB-019	45	46.1	2
PCB-020/028	182	181	1
PCB-021/033	33.3	33.7	1
PCB-022	49.8	48.7	2
PCB-025	62.3	62.1	0
PCB-026/029	51.7	53.4	3
PCB-027	15.8	13	19
PCB-031	161	162	1
PCB-032	94.6	90.7	4
PCB-037	25.1	23.7	6
PCB-040/071	114	102	11
PCB-041	12.4	10.1	20
PCB-042	67.7	59.7	13
PCB-043	11.5	2.91U	200
PCB-044/047/065	264	229	14
PCB-045	36.6	33.4	9
PCB-046	21.2	18.4	14
PCB-048	34.9	30.2	14
PCB-049/069	156	139	12
PCB-050/053	57.7	52.4	10
PCB-051	53.6	41.1	26
PCB-052	295	256	14
PCB-054	1.67	1.93U	200

Compound	Concentration (pg/L)		RPD
	PB099-1SWMID-140319-MD (TOTAL)	PB099-1SWMID-140319-N (TOTAL)	
PCB-056	73.6	69.4	6
PCB-057	1.26	2.37U	200
PCB-059/062/075	18.4	16.6	10
PCB-060	27.8	27.9	0
PCB-063	7.63	6.86	11
PCB-064	90.2	81.6	10
PCB-066	147	131	12
PCB-067	4.53	3.45	27
PCB-068	31.6	26.6	17
PCB-072	1.67	2.27U	200
PCB-077	14	12.9	8
PCB-082	17.4	15	15
PCB-083	5.83	4.19	33
PCB-084	36.7	31.5	15
PCB-085/116	21.8	17.3	23
PCB-090/101/113	76.4	69.9	9
PCB-091	19	17.3	9
PCB-092	15.4	15.6	1
PCB-093/100	1.59	1.76U	200
PCB-095	71.2	66.4	7
PCB-096	2.85	2.57	10
PCB-099	49.3	45.9	7
PCB-102	6.81	4.44	42
PCB-105	32	29	10
PCB-109	6.04	1.2U	200
PCB-110	102	92.3	10
PCB-114	2	1.29U	200
PCB-117	0.581U	2.46	200

Compound	Concentration (pg/L)		RPD
	PB099-1SWMID-140319-MD (TOTAL)	PB099-1SWMID-140319-N (TOTAL)	
PCB-118	65.1	63.5	2
PCB-123	1.94	1.27U	200
PCB-128/166	4.86	5.47	12
PCB-129/138/163	36.2	36.2	0
PCB-130	2.57	1.94U	200
PCB-132	12.4	10.8	14
PCB-134	2.49	2.22U	200
PCB-135/151	10.2	10.1	1
PCB-136	4.72	4.98	5
PCB-137	2.74	1.53U	200
PCB-139/140	0.938	1.57U	200
PCB-141	5.66	5.15	9
PCB-146	4.76	4.71	1
PCB-147/149	24.3	22.5	8
PCB-153/168	25.7	23.5	9
PCB-156/157	3.37	3.87	14
PCB-158	3.85	3.77	2
PCB-164	2.13	1.26U	200
PCB-167	1.5	1.28U	200
PCB-170	4.01	3.79	6
PCB-171/173	2.12	1.69U	200
PCB-172	1.12	1.64U	200
PCB-174	5.25	3.84	31
PCB-177	3.63	1.72U	200
PCB-178	1.14	1.87U	200
PCB-179	2.8	2.54	10
PCB-180/193	11.6	10.2	13
PCB-183	3.36	2.72	21

Compound	Concentration (pg/L)		RPD
	PB099-1SWMID-140319-MD (TOTAL)	PB099-1SWMID-140319-N (TOTAL)	
PCB-184	0.981	1.37U	200
PCB-187	7.73	6.57	16
PCB-190	1.42	1.09U	200
PCB-194	2.69	1.85U	200
PCB-195	1.51	2.06U	200
PCB-196	1.59	2.23U	200
PCB-198/199	4.23	2.35U	200
PCB-202	1.51	1.6U	200
PCB-203	2.41	2.18U	200
PCB-209	2.95	2.41	20
PCB-061/070/074/076	229	203	12
PCB-086/087/097/108/119/125	64.6	62.3	4

## XV. Field Blanks

No field blanks were identified in this SDG.

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG A6528**

SDG	Sample	Compound	Flag	A or P	Reason
A6528	PB099-1SWMID-140319-N (TOTAL) PB099-1SWMID-140319-MD (TOTAL) PB101.1-1SWMID-140319-N (TOTAL) PB101.1-1SWMID-140319-N (DISSOLVED)	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A	Compound quantitation

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG A6528**

SDG	Sample	Compound	Modified Final Concentration	A or P
A6528	PB099-1SWMID-140319-N (TOTAL)	PCB-11 PCB-146 PCB-209	23U pg/L 4.71U pg/L 2.41U pg/L	A
A6528	PB099-1SWMID-140319-MD (TOTAL)	PCB-11 PCB-146 PCB-209	23.5U pg/L 4.76U pg/L 2.95U pg/L	A
A6528	PB101.1-1SWMID-140319-N (TOTAL)	PCB-11 PCB-146 PCB-209	26.9U pg/L 5.37U pg/L 3.08U pg/L	A
A6528	PB101.1-1SWMID-140319-N (DISSOLVED)	PCB-105 PCB-118 PCB-11 PCB-95 PCB-113/90/101 PCB-99 PCB-108/119/86/97/125/87 PCB-110 PCB-136 PCB-151/135 PCB-147/149 PCB-132 PCB-146 PCB-153/168 PCB-163/138/129 PCB-209	4.55U pg/L 10.2U pg/L 22U pg/L 19.5U pg/L 17.2U pg/L 8.58U pg/L 14.5U pg/L 21.5U pg/L 1.45U pg/L 3.17U pg/L 6.31U pg/L 2.47U pg/L 1.12U pg/L 5.53U pg/L 7.93U pg/L 1.18U pg/L	A

LDC #: 31690L31

**VALIDATION COMPLETENESS WORKSHEET**

Date: 5-7-14

SDG #: A6528

Stage 2B

Page: 1 of 1

Laboratory: ~~SGS Analytical Perspective~~Reviewer: Th2nd Reviewer: CR**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/19/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	≤ 20
IV.	Continuing calibration/ <del>ICV</del>	A	≤ 30/50
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N	C.S.
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation/RL/ <del>LOQ</del> /LODS	SW	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	ND=1+2
XV.	Field blanks	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

water

1	PB099-1SWMID-140319-N (TOTAL)	11		21		31	
2	PB099-1SWMID-140319-MD (TOTAL)	12		22		32	
3	PB101.1-1SWMID-140319-N (TOTAL)	13		23		33	
4	PB101.1-1SWMID-140319-N (DISSOLVED)	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	MBI-11906	30		40	

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y  N  N/A Were all samples associated with a method blank?
- Y  N  N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
- Y  N  N/A Was the method blank contaminated?

Blank extraction date: 03/21/14 Blank analysis date: 04/03/14 Associated samples: All Qual U  
Conc. units: pg/L

Compound	Blank ID		Sample Identification							
	MB1_11906	5x	1	2	3	4				
PCB-105	1.59	8.0				4.55				
PCB-118	2.96*	14.8				10.2				
PCB-11	10.2	51.0	23	23.5	26.9	22				
PCB-31	2.06	10.3								
PCB-28/20	2.88	14.4								
PCB-52	5.29	26.5								
PCB-69/49	2.11	10.6								
PCB-44/47/65	3.59*	18.0								
PCB-61/70/74/76	4.02	20.1								
PCB-66	1.89	9.5								
PCB-95	4.79	24.0				19.5				
PCB-113/90/101	4.4*	22.0				17.2				
PCB-99	1.95*	9.8				8.58				
PCB-108/119/86/97/125/87	4.19	21.0				14.5				
PCB-110	5.96*	29.8				21.5				
PCB-136	0.662	3.3				1.45*				
PCB-151/135	1.64*	8.2				3.17				

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)**

Compound	Blank ID		Sample Identification							
	MB1_11906	5x	1	2	3	4				
PCB-147/149	3.63*	18.2				6.31				
PCB-132	1.52*	7.6				2.47*				
PCB-146	1.1	5.5	4.71	4.76	5.37	1.12				
PCB-153/168	3.47	17.4				5.53				
PCB-163/138/129	3.99	20.0				7.93				
PCB-209	1.01	5.1	2.41*	2.95	3.08	1.18				
<del>Total Di-CBs</del>	<del>10.2</del>	<del>51.0</del>								
<del>Total Tri-CBs</del>	<del>4.94</del>	<del>24.7</del>								
<del>Total Tetra-CBs</del>	<del>16.9*</del>	<del>84.5</del>								
<del>Total Penta-CBs</del>	<del>25.8*</del>	<del>120.0</del>								
<del>Total Hexa-CBs</del>	<del>16*</del>	<del>80.0*</del>								

\*EMPC

All contaminants within five times the method blank concentration were qualified as not detected.





**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	<u>2</u>	<u>1</u>	
PCB-001	13.1	16.7	24
PCB-002	2.26	3.71	49
PCB-003	5.06	8.82	54
PCB-004	85.4	92.3	8
PCB-006	44.7	53	17
PCB-007	1.96	3.84U	200
PCB-008	32.8	39	17
PCB-009	2.69	4.4U	200
PCB-010	2.84	5.41U	200
PCB-011	23.5	23	2
PCB-012/013	15.4	17.4	12
PCB-015	21.7	23.5	8
PCB-016	68.3	70.6	3
PCB-017	95.3	87.9	8
PCB-018/030	203	201	1
PCB-019	45	46.1	2
PCB-020/028	182	181	1
PCB-021/033	33.3	33.7	1
PCB-022	49.8	48.7	2
PCB-025	62.3	62.1	0
PCB-026/029	51.7	53.4	3
PCB-027	15.8	13	19
PCB-031	161	162	1
PCB-032	94.6	90.7	4
PCB-037	25.1	23.7	6
PCB-040/071	114	102	11
PCB-041	12.4	10.1	20
PCB-042	67.7	59.7	13
PCB-043	11.5	2.91U	200
PCB-044/047/065	264	229	14
PCB-045	36.6	33.4	9
PCB-046	21.2	18.4	14
PCB-048	34.9	30.2	14
PCB-049/069	156	139	12
PCB-050/053	57.7	52.4	10
PCB-051	53.6	41.1	26
PCB-052	295	256	14
PCB-054	1.67	1.93U	200
PCB-056	73.6	69.4	6
PCB-057	1.26	2.37U	200
PCB-059/062/075	18.4	16.6	10

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	1	2	
PCB-060	27.8	27.9	0
PCB-063	7.63	6.86	11
PCB-064	90.2	81.6	10
PCB-066	147	131	12
PCB-067	4.53	3.45	27
PCB-068	31.6	26.6	17
PCB-072	1.67	2.27U	200
PCB-077	14	12.9	8
PCB-082	17.4	15	15
PCB-083	5.83	4.19	33
PCB-084	36.7	31.5	15
PCB-085/116	21.8	17.3	23
PCB-090/101/113	76.4	69.9	9
PCB-091	19	17.3	9
PCB-092	15.4	15.6	1
PCB-093/100	1.59	1.76U	200
PCB-095	71.2	66.4	7
PCB-096	2.85	2.57	10
PCB-099	49.3	45.9	7
PCB-102	6.81	4.44	42
PCB-105	32	29	10
PCB-109	6.04	1.2U	200
PCB-110	102	92.3	10
PCB-114	2	1.29U	200
PCB-117	0.581U	2.46	200
PCB-118	65.1	63.5	2
PCB-123	1.94	1.27U	200
PCB-128/166	4.86	5.47	12
PCB-129/138/163	36.2	36.2	0
PCB-130	2.57	1.94U	200
PCB-132	12.4	10.8	14
PCB-134	2.49	2.22U	200
PCB-135/151	10.2	10.1	1
PCB-136	4.72	4.98	5
PCB-137	2.74	1.53U	200
PCB-139/140	0.938	1.57U	200
PCB-141	5.66	5.15	9
PCB-146	4.76	4.71	1
PCB-147/149	24.3	22.5	8
PCB-153/168	25.7	23.5	9
PCB-156/157	3.37	3.87	14

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	1	2	
PCB-158	3.85	3.77	2
PCB-164	2.13	1.26U	200
PCB-167	1.5	1.28U	200
PCB-170	4.01	3.79	6
PCB-171/173	2.12	1.69U	200
PCB-172	1.12	1.64U	200
PCB-174	5.25	3.84	31
PCB-177	3.63	1.72U	200
PCB-178	1.14	1.87U	200
PCB-179	2.8	2.54	10
PCB-180/193	11.6	10.2	13
PCB-183	3.36	2.72	21
PCB-184	0.981	1.37U	200
PCB-187	7.73	6.57	16
PCB-190	1.42	1.09U	200
PCB-194	2.69	1.85U	200
PCB-195	1.51	2.06U	200
PCB-196	1.59	2.23U	200
PCB-198/199	4.23	2.35U	200
PCB-202	1.51	1.6U	200
PCB-203	2.41	2.18U	200
PCB-209	2.95	2.41	20
PCB-061/070/074/076	229	203	12
PCB-086/087/097/108/119/125	64.6	62.3	4

## VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
MB1_11903	13C PCB-104	158 (25-150)	PCB-96 PCB-104	J (all detects) UJ (all non-detects)	P

## X. Target Compound Identifications

Raw data were not reviewed for this SDG.

## XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDGA6521	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A

Raw data were not reviewed for this SDG.

## XII. System Performance

Raw data were not reviewed for this SDG.

### XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to method blank contamination problems, data were qualified as nondetected in six samples.

Due to compound quantitation problems, data were qualified as estimated in six samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

### XIV. Field Duplicates

Samples PB083-1SWMID-140318-N and PB083-1SWMID-140318-D were identified as field duplicates. No polychlorinated biphenyls as congeners were detected in any of the samples with the following exceptions:

Compound	Concentration (pg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
PCB-001	23	21.4	7
PCB-002	2.1	1.49	34
PCB-003	5.7	4.96	14
PCB-004	151	145	4
PCB-005	2.02	1.83	10
PCB-006	47	45.8	3
PCB-007	3.57	3.16	12
PCB-008	101	101	0
PCB-009	7.02	6.87	2
PCB-010	4.44	4.61	4
PCB-011	22.7	21.2	7
PCB-012/013	15.2	13.8	10
PCB-015	51.5	52.4	2
PCB-016	172	181	5

Compound	Concentration (pg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
PCB-017	180	184	2
PCB-018/030	510	522	2
PCB-019	79.7	79.7	0
PCB-019-C13	94.3	104	10
PCB-020/028	461	482	4
PCB-021/033	130	137	5
PCB-022	131	135	3
PCB-024	3.43	2.8	20
PCB-025	62.9	63.6	1
PCB-026/029	90.3	91.5	1
PCB-027	31.1	31.5	1
PCB-031	463	483	4
PCB-032	170	170	0
PCB-034	2.42	2.48	2
PCB-035	7.39	7.21	2
PCB-037	73.5	77.6	5
PCB-038	0.957U	0.797	200
PCB-039	3.81	4.53	17
PCB-040/071	312	330	6
PCB-041	52.3	51.6	1
PCB-042	178	184	3
PCB-043	28.3	28.2	0
PCB-044/047/065	702	737	5
PCB-045	129	144	11
PCB-046	57.3	62.5	9
PCB-048	125	131	5
PCB-049/069	408	425	4
PCB-050/053	154	159	3

Compound	Concentration (pg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
PCB-051	70.9	62	13
PCB-052	829	875	5
PCB-054	2.83	3.2	12
PCB-055	4.43	5.47	21
PCB-056	225	237	5
PCB-057	2.47	2.38	4
PCB-058	0.923	1.12	19
PCB-059/062/075	49.3	52.3	6
PCB-060	96.8	105	8
PCB-063	16.3	17.2	5
PCB-064	264	277	5
PCB-066	453	482	6
PCB-067	10.6	11.3	6
PCB-068	25.6	27.1	6
PCB-072	3.15	3.23	3
PCB-073	1.59	1.71	7
PCB-077	35.4	37.7	6
PCB-079	8.5	3.07	94
PCB-081	1.82	1.68	8
PCB-082	52.4	54.2	3
PCB-083	15.1	18.8	22
PCB-084	103	110	7
PCB-085/116	68.5	73.9	8
PCB-089	10.6	10.5	1
PCB-090/101/113	230	241	5
PCB-091	52.7	55.9	6
PCB-092	45.1	46.8	4
PCB-093/100	5.16	5.05	2



Compound	Concentration (pg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
PCB-094	3.32	3.65	9
PCB-095	217	227	5
PCB-096	7.27	7.49	3
PCB-098	0.974	1.45	39
PCB-099	146	149	2
PCB-102	15.2	15.6	3
PCB-103	2.67	2.85	7
PCB-105	99.3	108	8
PCB-106	1.18	0.823	36
PCB-107/124	8.58	9	5
PCB-109	15.7	16.1	3
PCB-110	292	305	4
PCB-112	1.07	0.984	8
PCB-114	6.19	6.49	5
PCB-115	7.61	9.47	22
PCB-117	8.96	8.19	9
PCB-118	182	191	5
PCB-120	0.681	0.555	20
PCB-122	4.58	4.31	6
PCB-123	5.04	5.63	11
PCB-126	1.23	1.08	13
PCB-128/166	16.5	17.1	4
PCB-129/138/163	105	104	1
PCB-130	7.57	7.57	0
PCB-131	1.84	2.1	13
PCB-132	37.2	36.5	2
PCB-133	1.43	1.32	8
PCB-134	6.39	5.51	15

Compound	Concentration (pg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
PCB-135/151	28.2	28.4	1
PCB-136	14	13.1	7
PCB-137	5.51	5.75	4
PCB-139/140	2.37	2.24	6
PCB-141	16.9	17	1
PCB-143	0.717	0.367	65
PCB-144	4.2	4.67	11
PCB-146	13.8	13.9	1
PCB-147/149	71	70.2	1
PCB-150	0.259U	0.275	200
PCB-152	0.263U	0.228	200
PCB-153/168	69.2	68.6	1
PCB-154	1.1	1.03	7
PCB-155	0.329	0.273	19
PCB-156/157	11.4	11.5	1
PCB-158	10.1	10.4	3
PCB-159	0.749	0.677	10
PCB-162	0.411U	0.473	200
PCB-164	7.06	6.63	6
PCB-167	3.4	3.5	3
PCB-170	14.7	14.5	1
PCB-171/173	4.68	4.32	8
PCB-172	2.63	2.48	6
PCB-174	15.9	14	13
PCB-175	0.667	0.662	1
PCB-176	1.95	1.91	2
PCB-177	7.61	8.43	10
PCB-178	3.24	3.27	1

Compound	Concentration (pg/L)		RPD
	PB083-1SWMID-140318-N	PB083-1SWMID-140318-D	
PCB-179	7.12	6.7	6
PCB-180/193	31.5	28.6	10
PCB-183	7.79	7.14	9
PCB-184	0.31U	0.498	200
PCB-185	1.48	1.59	7
PCB-187	18.3	17.5	4
PCB-189	0.645	0.73	12
PCB-190	2.78	2.73	2
PCB-191	0.677	0.726	7
PCB-194	6.46	6.09	6
PCB-195	2.5	2.23	11
PCB-196	3.55	2.65	29
PCB-197	0.581	0.501	15
PCB-198/199	9.2	7.82	16
PCB-200	0.853	1.08	23
PCB-201	1.16	1.09	6
PCB-202	2.06	1.83	12
PCB-203	4.61	4.23	9
PCB-206	4.21	4.7	11
PCB-207	1.47	2.22	41
PCB-208	2.19	2.33	6
PCB-209	42.6	45.2	6
PCB-061/070/074/076	726	774	6
PCB-086/087/097/108/119/125	207	218	5

## XV. Field Blanks

No field blanks were identified in this SDG.

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG A6521**

SDG	Sample	Compound	Flag	A or P	Reason
A6521	PB083-1SWMID-140318-N PB083-1SWMID-140318-D PB087-1SWMID-140318-N PB091-1SWMID-140318-N PB093-1SWMID-140318-N PB095-1SWMID-140318-N	All compounds reported by the laboratory as estimated maximum possible concentration (EMPC)	J (all detects)	A	Compound quantitation

**Patrick Bayou Superfund Site  
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG A6521**

SDG	Sample	Compound	Modified Final Concentration	A or P
A6521	PB083-1SWMID-140318-N	PCB-3 PCB-11	5.7U pg/L 22.7U pg/L	A
A6521	PB083-1SWMID-140318-D	PCB-3 PCB-11	4.96U pg/L 21.2U pg/L	A
A6521	PB087-1SWMID-140318-N	PCB-3 PCB-11	6.04U pg/L 26.3U pg/L	A
A6521	PB091-1SWMID-140318-N	PCB-3 PCB-11	5.96U pg/L 30.6U pg/L	A
A6521	PB093-1SWMID-140318-N	PCB-3 PCB-11	5.06U pg/L 27.6U pg/L	A
A6521	PB095-1SWMID-140318-N	PCB-3 PCB-11	5.66U pg/L 26.2U pg/L	A

LDC #: 31690K31

## VALIDATION COMPLETENESS WORKSHEET

Date: 5-7-14

SDG #: A6521

Stage 2B

Page: 1 of 1

Laboratory: SGS Analytical PerspectiveReviewer: SPM2nd Reviewer: OR**METHOD:** HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/18/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	≤20
IV.	Continuing calibration/ICV	A	≤30/50
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N	C.S.
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	SW	
X.	Target compound identifications	N	
XI.	Compound quantitation/RL/LOQ/LODs	SW	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D=1+2
XV.	Field blanks	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples: water

1	PB083-1SWMID-140318-N	11		21		31	
2	PB083-1SWMID-140318-D	12		22		32	
3	PB087-1SWMID-140318-N	13		23		33	
4	PB091-1SWMID-140318-N	14		24		34	
5	PB093-1SWMID-140318-N	15		25		35	
6	PB095-1SWMID-140318-N	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	MBL-11903	30		40	

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N  N/A Were all samples associated with a method blank?

Y  N  N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?

Y  N  N/A Was the method blank contaminated?

Blank extraction date: 03/20/14    Blank analysis date: 03/28/14    Associated samples: All Qual U

Conc. units: pg/L

Compound	Blank ID		Sample Identification							
	MB1_11903	5x	1	2	3	4	5	6		
PCB-118	2.91	14.6								
PCB-1	1.08	5.4								
PCB-3	1.69	8.5	5.7	4.96	6.04	5.96	5.06	5.66		
PCB-11	8.82	44.1	22.7	21.2	26.3	30.6	27.6	26.2		
PCB-31	1.96*	9.8								
PCB-28/20	2.82*	14.1								
PCB-21/33	2.06	10.3								
PCB-52	5.34	26.7								
PCB-69/49	2*	10.0								
PCB-44/47/65	3.67	18.4								
PCB-61/70/74/76	3.84	19.2								
PCB-95	4.27	21.4								
PCB-113/90/101	4.17*	20.9								
PCB-99	1.67*	8.4								
PCB-108/119/86/97/125/87	2.67*	13.4								
PCB-110	5.2	26.0								
PCB-151/135	2	10.0								

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Compound	Blank ID		Sample Identification							
	MB1_11903	5x	1	2	3	4	5	6		
PCB-147/149	3.55	17.8								
PCB-132	2.01*	10.1								
PCB-153/168	2.85*	14.3								
PCB-163/138/129	2.96	14.8								
<del>Total Mono-CBs</del>	<del>2.77</del>	<del>13.9</del>								
<del>Total Di-CBs</del>	<del>8.82</del>	<del>44.1</del>								
<del>Total Tri-CBs</del>	<del>6.84*</del>	<del>34.2</del>								
<del>Total Tetra-CBs</del>	<del>14.8*</del>	<del>74.0</del>								
<del>Total Penta-CBs</del>	<del>20.9*</del>	<del>104.5</del>								
<del>Total Hexa-CBs</del>	<del>13.4*</del>	<del>67.0</del>								

\*EMPC

All contaminants within five times the method blank concentration were qualified as not detected.







**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	1	2	
PCB-001	23	21.4	7
PCB-002	2.1	1.49	34
PCB-003	5.7	4.96	14
PCB-004	151	145	4
PCB-005	2.02	1.83	10
PCB-006	47	45.8	3
PCB-007	3.57	3.16	12
PCB-008	101	101	0
PCB-009	7.02	6.87	2
PCB-010	4.44	4.61	4
PCB-011	22.7	21.2	7
PCB-012/013	15.2	13.8	10
PCB-015	51.5	52.4	2
PCB-016	172	181	5
PCB-017	180	184	2
PCB-018/030	510	522	2
PCB-019	79.7	79.7	0
PCB-019-C13	94.3	104	10
PCB-020/028	461	482	4
PCB-021/033	130	137	5
PCB-022	131	135	3
PCB-024	3.43	2.8	20
PCB-025	62.9	63.6	1
PCB-026/029	90.3	91.5	1
PCB-027	31.1	31.5	1
PCB-031	463	483	4
PCB-032	170	170	0
PCB-034	2.42	2.48	2
PCB-035	7.39	7.21	2
PCB-037	73.5	77.6	5
PCB-038	0.957U	0.797	200
PCB-039	3.81	4.53	17
PCB-040/071	312	330	6
PCB-041	52.3	51.6	1
PCB-042	178	184	3
PCB-043	28.3	28.2	0
PCB-044/047/065	702	737	5
PCB-045	129	144	11
PCB-046	57.3	62.5	9
PCB-048	125	131	5
PCB-049/069	408	425	4

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	1	2	
PCB-050/053	154	159	3
PCB-051	70.9	62	13
PCB-052	829	875	5
PCB-054	2.83	3.2	12
PCB-055	4.43	5.47	21
PCB-056	225	237	5
PCB-057	2.47	2.38	4
PCB-058	0.923	1.12	19
PCB-059/062/075	49.3	52.3	6
PCB-060	96.8	105	8
PCB-063	16.3	17.2	5
PCB-064	264	277	5
PCB-066	453	482	6
PCB-067	10.6	11.3	6
PCB-068	25.6	27.1	6
PCB-072	3.15	3.23	3
PCB-073	1.59	1.71	7
PCB-077	35.4	37.7	6
PCB-079	8.5	3.07	94
PCB-081	1.82	1.68	8
PCB-082	52.4	54.2	3
PCB-083	15.1	18.8	22
PCB-084	103	110	7
PCB-085/116	68.5	73.9	8
PCB-089	10.6	10.5	1
PCB-090/101/113	230	241	5
PCB-091	52.7	55.9	6
PCB-092	45.1	46.8	4
PCB-093/100	5.16	5.05	2
PCB-094	3.32	3.65	9
PCB-095	217	227	5
PCB-096	7.27	7.49	3
PCB-098	0.974	1.45	39
PCB-099	146	149	2
PCB-102	15.2	15.6	3
PCB-103	2.67	2.85	7
PCB-105	99.3	108	8
PCB-106	1.18	0.823	36
PCB-107/124	8.58	9	5
PCB-109	15.7	16.1	3
PCB-110	292	305	4

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	1	2	
PCB-112	1.07	0.984	8
PCB-114	6.19	6.49	5
PCB-115	7.61	9.47	22
PCB-117	8.96	8.19	9
PCB-118	182	191	5
PCB-120	0.681	0.555	20
PCB-122	4.58	4.31	6
PCB-123	5.04	5.63	11
PCB-126	1.23	1.08	13
PCB-128/166	16.5	17.1	4
PCB-129/138/163	105	104	1
PCB-130	7.57	7.57	0
PCB-131	1.84	2.1	13
PCB-132	37.2	36.5	2
PCB-133	1.43	1.32	8
PCB-134	6.39	5.51	15
PCB-135/151	28.2	28.4	1
PCB-136	14	13.1	7
PCB-137	5.51	5.75	4
PCB-139/140	2.37	2.24	6
PCB-141	16.9	17	1
PCB-143	0.717	0.367	65
PCB-144	4.2	4.67	11
PCB-146	13.8	13.9	1
PCB-147/149	71	70.2	1
PCB-150	0.259U	0.275	200
PCB-152	0.263U	0.228	200
PCB-153/168	69.2	68.6	1
PCB-154	1.1	1.03	7
PCB-155	0.329	0.273	19
PCB-156/157	11.4	11.5	1
PCB-158	10.1	10.4	3
PCB-159	0.749	0.677	10
PCB-162	0.411U	0.473	200
PCB-164	7.06	6.63	6
PCB-167	3.4	3.5	3
PCB-170	14.7	14.5	1
PCB-171/173	4.68	4.32	8
PCB-172	2.63	2.48	6
PCB-174	15.9	14	13
PCB-175	0.667	0.662	1

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

## PCB Congeners (EPA Method 1668A)

Analyte	Concentration (pg/L)		RPD
	1	2	
PCB-176	1.95	1.91	2
PCB-177	7.61	8.43	10
PCB-178	3.24	3.27	1
PCB-179	7.12	6.7	6
PCB-180/193	31.5	28.6	10
PCB-183	7.79	7.14	9
PCB-184	0.31U	0.498	200
PCB-185	1.48	1.59	7
PCB-187	18.3	17.5	4
PCB-189	0.645	0.73	12
PCB-190	2.78	2.73	2
PCB-191	0.677	0.726	7
PCB-194	6.46	6.09	6
PCB-195	2.5	2.23	11
PCB-196	3.55	2.65	29
PCB-197	0.581	0.501	15
PCB-198/199	9.2	7.82	16
PCB-200	0.853	1.08	23
PCB-201	1.16	1.09	6
PCB-202	2.06	1.83	12
PCB-203	4.61	4.23	9
PCB-206	4.21	4.7	11
PCB-207	1.47	2.22	41
PCB-208	2.19	2.33	6
PCB-209	42.6	45.2	6
PCB-061/070/074/076	726	774	6
PCB-086/087/097/108/119/125	207	218	5

APPENDIX E  
DETAILED ANALYTICAL RESULTS

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**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
		Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
			N	RB	N	FD	N
			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
<b>Conventional Parameters (mg/L)</b>							
Total suspended solids	mg/L	SM2540D	11 J	--	14 J	11 J	17 J
Dissolved organic carbon	mg/L	SW9060	--	--	--	9.8 J	9.4 J
Total organic carbon	mg/L	SW9060	6.44	--	5.52	6.75	5.47
<b>PCB Congeners (ng/L)</b>							
PCB-001	ng/L	E1668A	0.00145 U	0.00334 U	0.00604 J	0.035	0.0566
PCB-002	ng/L	E1668A	0.00132 U	0.00249 U	0.00207 U	0.00348 J	0.0066 U
PCB-003	ng/L	E1668A	0.00147 U	0.00276 U	0.00204 U	0.00963 J	0.0167 J
PCB-004	ng/L	E1668A	0.00869 J	0.0048 U	0.0986 J	0.245 J	0.368 J
PCB-005	ng/L	E1668A	0.00153 U	0.00327 U	0.00425 UJ	0.00375 UJ	0.014 UJ
PCB-006	ng/L	E1668A	0.00153 U	0.00326 U	0.00423 UJ	0.0377 J	0.0524 J
PCB-007	ng/L	E1668A	0.00141 U	0.003 U	0.00396 UJ	0.00441 J	0.0131 UJ
PCB-008	ng/L	E1668A	0.0051 J	0.00313 J	0.0205 J	0.163 J	0.244 J
PCB-009	ng/L	E1668A	0.00161 U	0.00345 U	0.0044 UJ	0.0109 J	0.0145 UJ
PCB-010	ng/L	E1668A	0.00189 U	0.00308 U	0.00473 UJ	0.00949 J	0.0106 UJ
PCB-011	ng/L	E1668A	0.0231 U	0.013 U	0.0233 UJ	0.0298 UJ	0.0459 J
PCB-012/013	ng/L	E1668A	0.00147 U	0.00315 U	0.00445 UJ	0.0145 J	0.0228 J
PCB-014	ng/L	E1668A	0.00128 U	0.00272 U	0.00366 UJ	0.00324 UJ	0.0121 UJ
PCB-015	ng/L	E1668A	0.00674 J	0.00324 U	0.0472 J	0.108 J	0.175 J
PCB-016	ng/L	E1668A	0.017	0.00505 U	0.0542	0.429	0.753
PCB-017	ng/L	E1668A	0.0183	0.00835 J	0.0559	0.417	0.741
PCB-018/030	ng/L	E1668A	0.0532	0.00322 U	0.11	1.18	2.08
PCB-019	ng/L	E1668A	0.00817 J	0.00432 U	0.0475	0.134	0.219
PCB-020/028	ng/L	E1668A	0.0677	0.00485 U	0.0962	1.07	1.66
PCB-021/033	ng/L	E1668A	0.0112 J	0.00452 J	0.0176 J	0.376	0.595
PCB-022	ng/L	E1668A	0.0139	0.00265 U	0.0271	0.281	0.436
PCB-023	ng/L	E1668A	0.00142 U	0.00251 U	0.00295 U	0.00377 U	0.00972 U
PCB-024	ng/L	E1668A	0.00185 U	0.00289 U	0.00333 U	0.00604 J	0.0206
PCB-025	ng/L	E1668A	0.00608 J	0.00246 U	0.0125	0.0678	0.0968
PCB-026/029	ng/L	E1668A	0.00945 J	0.00247 U	0.0159 J	0.17	0.248
PCB-027	ng/L	E1668A	0.00475 J	0.00276 U	0.0121	0.0653	0.123
PCB-031	ng/L	E1668A	0.0467	0.0033 U	0.0767	1.12	1.7
PCB-032	ng/L	E1668A	0.0193	0.00258 U	0.0486	0.353	0.642
PCB-034	ng/L	E1668A	0.00144 U	0.00255 U	0.00294 U	0.00542 J	0.00967 U
PCB-035	ng/L	E1668A	0.00151 U	0.00268 U	0.00333 U	0.00425 U	0.0273
PCB-036	ng/L	E1668A	0.00137 U	0.00242 U	0.00282 U	0.0036 U	0.00929 U

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
		Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
			N	RB	N	FD	N
			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-037	ng/L	E1668A	0.00164 U	0.00291 U	<b>0.0158</b>	<b>0.173</b>	<b>0.308</b>
PCB-038	ng/L	E1668A	0.00146 U	0.00258 U	0.00313 U	0.00399 U	0.0103 U
PCB-039	ng/L	E1668A	0.00132 U	0.00234 U	0.00283 U	0.00361 U	0.0093 U
PCB-040/071	ng/L	E1668A	<b>0.0518</b>	0.0017 U	<b>0.0385</b>	<b>0.743</b>	<b>1.18</b>
PCB-041	ng/L	E1668A	<b>0.00549 J</b>	0.00206 U	0.00406 U	<b>0.0829</b>	<b>0.16</b>
PCB-042	ng/L	E1668A	<b>0.0263</b>	0.00189 U	<b>0.0235</b>	<b>0.427</b>	<b>0.674</b>
PCB-043	ng/L	E1668A	0.00097 U	0.00202 U	0.00414 U	<b>0.0557</b>	<b>0.0865</b>
PCB-044/047/065	ng/L	E1668A	<b>0.14</b>	<b>0.0293 J</b>	<b>0.104</b>	<b>1.74</b>	<b>2.66</b>
PCB-045	ng/L	E1668A	<b>0.0139</b>	0.00187 U	<b>0.0127</b>	<b>0.303</b>	<b>0.418</b>
PCB-046	ng/L	E1668A	<b>0.00586 J</b>	0.0021 U	<b>0.00624 J</b>	<b>0.113</b>	<b>0.164</b>
PCB-048	ng/L	E1668A	<b>0.0141</b>	0.00173 U	<b>0.0127</b>	<b>0.312</b>	<b>0.486</b>
PCB-049/069	ng/L	E1668A	<b>0.0824</b>	0.00285 U	<b>0.06</b>	<b>1.08</b>	<b>1.69</b>
PCB-050/053	ng/L	E1668A	<b>0.0182 J</b>	0.0017 U	<b>0.0195 J</b>	<b>0.3</b>	<b>0.426</b>
PCB-051	ng/L	E1668A	<b>0.0217</b>	<b>0.0818</b>	<b>0.0217</b>	<b>0.0962</b>	<b>0.14</b>
PCB-052	ng/L	E1668A	<b>0.182</b>	0.00445 U	<b>0.113</b>	<b>2.16</b>	<b>3.31</b>
PCB-054	ng/L	E1668A	0.000732 U	0.00138 U	<b>0.00315 J</b>	<b>0.0056 J</b>	<b>0.0106 J</b>
PCB-055	ng/L	E1668A	0.00122 U	0.0017 U	0.00269 U	<b>0.0108 J</b>	0.00992 U
PCB-056	ng/L	E1668A	<b>0.0425</b>	0.00169 U	<b>0.0241</b>	<b>0.582</b>	<b>1</b>
PCB-057	ng/L	E1668A	0.00116 U	0.00162 U	0.00258 U	<b>0.00463 J</b>	0.00953 U
PCB-058	ng/L	E1668A	0.00115 U	0.0016 U	0.00253 U	0.00395 U	0.00932 U
PCB-059/062/075	ng/L	E1668A	<b>0.0111 J</b>	0.00124 U	<b>0.00696 J</b>	<b>0.124</b>	<b>0.181</b>
PCB-060	ng/L	E1668A	<b>0.0278</b>	0.00168 U	<b>0.0049 J</b>	<b>0.242</b>	<b>0.428</b>
PCB-061/070/074/076	ng/L	E1668A	<b>0.148</b>	0.00161 U	<b>0.0871</b>	<b>2.21</b>	<b>4</b>
PCB-063	ng/L	E1668A	0.00103 U	0.00144 U	0.00231 U	<b>0.0393</b>	<b>0.0705</b>
PCB-064	ng/L	E1668A	<b>0.0583</b>	0.00117 U	<b>0.0315</b>	<b>0.681</b>	<b>1.09</b>
PCB-066	ng/L	E1668A	<b>0.118</b>	0.00167 U	<b>0.051</b>	<b>1.3</b>	<b>2.34</b>
PCB-067	ng/L	E1668A	0.00108 U	0.00151 U	0.00244 U	<b>0.0272</b>	<b>0.0485</b>
PCB-068	ng/L	E1668A	<b>0.0234</b>	<b>0.0371</b>	<b>0.0207</b>	0.00364 U	<b>0.0323</b>
PCB-072	ng/L	E1668A	0.0011 U	0.00154 U	0.00252 U	0.00394 U	<b>0.0239 J</b>
PCB-073	ng/L	E1668A	0.00063 U	0.00131 U	0.00241 U	0.00276 U	0.00792 U
PCB-077	ng/L	E1668A	<b>0.0114</b>	0.0016 U	<b>0.00338 J</b>	<b>0.102</b>	<b>0.196</b>
PCB-078	ng/L	E1668A	0.00126 U	0.00176 U	0.0028 U	0.00437 U	0.0103 U
PCB-079	ng/L	E1668A	0.00106 U	0.00149 U	0.00229 U	0.00358 U	0.00845 U
PCB-080	ng/L	E1668A	0.00101 U	0.00142 U	0.00228 U	0.00357 U	0.00841 U
PCB-081	ng/L	E1668A	0.00125 U	0.00175 U	0.00277 U	0.00433 U	0.0102 U
PCB-082	ng/L	E1668A	<b>0.0126</b>	0.00194 U	<b>0.00941 J</b>	<b>0.124</b>	<b>0.224</b>



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
Sample Date	Sample Type	Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
Sample Date	Sample Type		N	RB	N	FD	N
Sample Date	Sample Type		3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
Sample Date	Sample Type		13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-083	ng/L	E1668A	<b>0.00669 J</b>	0.00204 U	0.0049 U	<b>0.036</b>	<b>0.0632</b>
PCB-084	ng/L	E1668A	<b>0.0265</b>	0.00187 U	<b>0.0208</b>	<b>0.263</b>	<b>0.499</b>
PCB-085/116	ng/L	E1668A	<b>0.027</b>	0.00139 U	<b>0.0105 J</b>	<b>0.183</b>	<b>0.303</b>
PCB-086/087/097/108/119/125	ng/L	E1668A	<b>0.0674</b>	0.00138 U	<b>0.0389 J</b>	<b>0.565</b>	<b>1.05</b>
PCB-088	ng/L	E1668A	0.00112 U	0.00159 U	0.00395 U	0.00492 U	0.012 U
PCB-089	ng/L	E1668A	<b>0.00186 J</b>	0.00172 U	0.00424 U	<b>0.0207</b>	<b>0.0316 J</b>
PCB-090/101/113	ng/L	E1668A	<b>0.0892</b>	0.00416 U	<b>0.0627</b>	<b>0.715</b>	<b>1.37</b>
PCB-091	ng/L	E1668A	<b>0.0167</b>	0.00157 U	<b>0.013</b>	<b>0.16</b>	<b>0.307</b>
PCB-092	ng/L	E1668A	<b>0.0181</b>	0.00159 U	<b>0.0141</b>	<b>0.118</b>	<b>0.228</b>
PCB-093/100	ng/L	E1668A	0.00108 U	0.00154 U	0.00385 U	<b>0.0161 J</b>	0.0117 U
PCB-094	ng/L	E1668A	0.00118 U	0.00168 U	0.0041 U	0.0051 U	0.0125 U
PCB-095	ng/L	E1668A	<b>0.066</b>	0.00466 U	<b>0.0555</b>	<b>0.643</b>	<b>1.15</b>
PCB-096	ng/L	E1668A	0.00058 U	0.00106 U	0.00309 U	<b>0.0164</b>	<b>0.0411</b>
PCB-098	ng/L	E1668A	0.00111 U	0.00157 U	0.00402 U	0.005 U	0.0122 U
PCB-099	ng/L	E1668A	<b>0.0525</b>	0.00137 U	<b>0.0326</b>	<b>0.433</b>	<b>0.824</b>
PCB-102	ng/L	E1668A	<b>0.00427 J</b>	0.00153 U	0.00347 U	<b>0.0431</b>	<b>0.0795</b>
PCB-103	ng/L	E1668A	0.000991 U	0.00141 U	0.00355 U	<b>0.00884 J</b>	0.0108 U
PCB-104	ng/L	E1668A	0.000472 U	0.000864 U	0.00272 U	0.00253 U	0.00798 U
PCB-105	ng/L	E1668A	<b>0.0439</b>	0.00122 U	<b>0.0159</b>	<b>0.308</b>	<b>0.591</b>
PCB-106	ng/L	E1668A	0.000872 U	0.00124 U	0.00313 U	0.0039 U	0.00955 U
PCB-107/124	ng/L	E1668A	<b>0.00337 J</b>	0.00122 U	0.00303 U	<b>0.0253</b>	<b>0.04</b>
PCB-109	ng/L	E1668A	<b>0.00732 J</b>	0.0011 U	<b>0.00403 J</b>	<b>0.0471</b>	<b>0.0894</b>
PCB-110	ng/L	E1668A	<b>0.115</b>	0.00457 U	<b>0.0719</b>	<b>0.94</b>	<b>1.69</b>
PCB-111	ng/L	E1668A	0.000785 U	0.00112 U	0.00278 U	0.00345 U	0.00845 U
PCB-112	ng/L	E1668A	0.000816 U	0.00116 U	0.00292 U	0.00363 U	0.00889 U
PCB-114	ng/L	E1668A	<b>0.0022 J</b>	0.00104 U	0.00274 U	<b>0.0167</b>	<b>0.0263</b>
PCB-115	ng/L	E1668A	0.000842 U	0.0012 U	0.00282 U	0.0035 U	<b>0.0389</b>
PCB-117	ng/L	E1668A	0.000868 U	0.00124 U	0.0031 U	0.00386 U	<b>0.0411</b>
PCB-118	ng/L	E1668A	<b>0.0769</b>	0.00266 U	<b>0.0427</b>	<b>0.6</b>	<b>1.17</b>
PCB-120	ng/L	E1668A	0.000773 U	0.0011 U	0.00279 U	0.00347 U	0.00849 U
PCB-121	ng/L	E1668A	0.000775 U	0.0011 U	0.00279 U	0.00347 U	0.00849 U
PCB-122	ng/L	E1668A	0.000927 U	0.00123 U	0.00313 U	<b>0.00952 J</b>	<b>0.0143 J</b>
PCB-123	ng/L	E1668A	0.000779 U	0.00111 U	0.00298 U	<b>0.0142</b>	<b>0.0246</b>
PCB-126	ng/L	E1668A	0.00107 U	0.00173 U	0.00232 U	0.00252 U	0.00696 U
PCB-127	ng/L	E1668A	0.000871 U	0.00127 U	0.00298 U	0.00392 U	0.01 U
PCB-128/166	ng/L	E1668A	<b>0.0151 J</b>	0.0014 U	<b>0.00946 J</b>	<b>0.056</b>	<b>0.121</b>

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
		Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
			N	RB	N	FD	N
			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-129/138/163	ng/L	E1668A	<b>0.0905</b>	0.00418 U	<b>0.0515</b>	<b>0.398</b>	<b>0.739</b>
PCB-130	ng/L	E1668A	<b>0.00679 J</b>	0.00155 U	<b>0.00349 J</b>	<b>0.0307</b>	<b>0.0538</b>
PCB-131	ng/L	E1668A	0.000744 U	0.00149 U	0.00301 U	<b>0.00677 J</b>	0.0103 U
PCB-132	ng/L	E1668A	<b>0.024</b>	0.00145 U	<b>0.014 J</b>	<b>0.125</b>	<b>0.229</b>
PCB-133	ng/L	E1668A	0.000677 U	0.00136 U	0.00283 U	<b>0.00663 J</b>	0.00967 U
PCB-134	ng/L	E1668A	<b>0.00542 J</b>	0.00173 U	0.0031 U	<b>0.0222 J</b>	<b>0.0309 J</b>
PCB-135/151	ng/L	E1668A	<b>0.0195 J</b>	0.00133 U	<b>0.0185 J</b>	<b>0.113</b>	<b>0.221</b>
PCB-136	ng/L	E1668A	<b>0.00676 J</b>	0.000956 U	<b>0.0104</b>	<b>0.0558</b>	<b>0.114</b>
PCB-137	ng/L	E1668A	<b>0.00435 J</b>	0.00123 U	0.00276 U	<b>0.0168 J</b>	<b>0.0196 J</b>
PCB-139/140	ng/L	E1668A	0.000632 U	0.00127 U	0.00259 U	<b>0.00907 J</b>	0.00885 U
PCB-141	ng/L	E1668A	<b>0.0122</b>	0.0014 U	<b>0.00849 J</b>	<b>0.0569</b>	<b>0.102</b>
PCB-142	ng/L	E1668A	0.000761 U	0.00153 U	0.00299 U	0.00463 U	0.0102 U
PCB-143	ng/L	E1668A	0.000642 U	0.00129 U	0.00288 U	0.00444 U	0.00982 U
PCB-144	ng/L	E1668A	<b>0.00227 J</b>	0.00128 U	0.00263 U	<b>0.0143 J</b>	<b>0.0301</b>
PCB-145	ng/L	E1668A	0.000472 U	0.000944 U	0.00239 U	0.00315 U	0.00769 U
PCB-146	ng/L	E1668A	<b>0.0121</b>	0.00122 U	<b>0.00822 J</b>	<b>0.0602</b>	<b>0.105</b>
PCB-147/149	ng/L	E1668A	<b>0.0489</b>	0.00457 U	<b>0.0457</b>	<b>0.292</b>	<b>0.594</b>
PCB-148	ng/L	E1668A	0.000625 U	0.00125 U	0.00263 U	0.00406 U	0.00896 U
PCB-150	ng/L	E1668A	0.000438 U	0.000875 U	0.00229 U	0.00302 U	0.00738 U
PCB-152	ng/L	E1668A	0.000451 U	0.000901 U	0.00229 U	0.00302 U	0.00736 U
PCB-153/168	ng/L	E1668A	<b>0.0596</b>	0.00232 U	<b>0.0424</b>	<b>0.298</b>	<b>0.558</b>
PCB-154	ng/L	E1668A	0.000559 U	0.00112 U	0.00236 U	<b>0.00698 J</b>	0.00807 U
PCB-155	ng/L	E1668A	0.000389 U	0.000777 U	0.00212 U	0.00279 U	0.00682 U
PCB-156/157	ng/L	E1668A	<b>0.0108 J</b>	0.00163 U	<b>0.00572 J</b>	<b>0.0378</b>	<b>0.0786 J</b>
PCB-158	ng/L	E1668A	<b>0.00868 J</b>	0.000946 U	<b>0.00303 J</b>	<b>0.0392</b>	<b>0.0647</b>
PCB-159	ng/L	E1668A	0.000805 U	0.00115 U	0.00304 U	0.00263 U	0.008 U
PCB-160	ng/L	E1668A	0.000554 U	0.00111 U	0.00223 U	0.00344 U	0.00761 U
PCB-161	ng/L	E1668A	0.000494 U	0.000991 U	0.00209 U	0.00322 U	0.00712 U
PCB-162	ng/L	E1668A	0.000809 U	0.00116 U	0.00303 U	0.00262 U	0.00797 U
PCB-164	ng/L	E1668A	<b>0.0061 J</b>	0.00103 U	<b>0.00317 J</b>	<b>0.0279</b>	<b>0.0492</b>
PCB-165	ng/L	E1668A	0.000532 U	0.00107 U	0.00225 U	0.00348 U	0.00769 U
PCB-167	ng/L	E1668A	<b>0.00358 J</b>	0.00106 U	0.00295 U	<b>0.0111 J</b>	<b>0.028</b>
PCB-169	ng/L	E1668A	0.000971 U	0.00134 U	0.00357 U	0.0031 U	0.0101 U
PCB-170	ng/L	E1668A	<b>0.018</b>	0.00163 U	<b>0.0074 J</b>	<b>0.0647</b>	<b>0.137</b>
PCB-171/173	ng/L	E1668A	<b>0.00548 J</b>	0.00161 U	0.00432 U	<b>0.0188 J</b>	<b>0.0511</b>
PCB-172	ng/L	E1668A	<b>0.00346 J</b>	0.00154 U	0.00433 U	<b>0.0108 J</b>	<b>0.0239 J</b>

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
		Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
			N	RB	N	FD	N
			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-174	ng/L	E1668A	<b>0.0138</b>	0.00151 U	<b>0.0106 J</b>	<b>0.0635</b>	<b>0.132</b>
PCB-175	ng/L	E1668A	0.000897 U	0.00139 U	0.00385 U	0.00459 U	0.0123 U
PCB-176	ng/L	E1668A	<b>0.00132 J</b>	0.00103 U	0.00188 U	<b>0.00895 J</b>	<b>0.0124</b>
PCB-177	ng/L	E1668A	<b>0.00834 J</b>	0.00159 U	<b>0.00495 J</b>	<b>0.0378</b>	<b>0.0916</b>
PCB-178	ng/L	E1668A	<b>0.00397 J</b>	0.00158 U	0.00274 U	<b>0.0201</b>	<b>0.024 J</b>
PCB-179	ng/L	E1668A	<b>0.00555 J</b>	0.00109 U	<b>0.00426 J</b>	<b>0.0341</b>	<b>0.0653</b>
PCB-180/193	ng/L	E1668A	<b>0.033</b>	<b>0.00284 J</b>	<b>0.0208</b>	<b>0.138</b>	<b>0.279</b>
PCB-181	ng/L	E1668A	0.000908 U	0.00141 U	0.00385 U	0.00458 U	0.0123 U
PCB-182	ng/L	E1668A	0.00082 U	0.00127 U	0.00357 U	0.00425 U	0.0114 U
PCB-183	ng/L	E1668A	<b>0.00874 J</b>	0.00124 U	<b>0.00427 J</b>	<b>0.0405</b>	<b>0.0761 J</b>
PCB-184	ng/L	E1668A	0.000659 U	0.00114 U	0.00211 U	0.00214 U	0.00766 U
PCB-185	ng/L	E1668A	0.000933 U	0.00145 U	0.00372 U	0.00442 U	0.0118 U
PCB-186	ng/L	E1668A	0.000636 U	0.0011 U	0.00202 U	0.00205 U	0.00732 U
PCB-187	ng/L	E1668A	<b>0.0183</b>	<b>0.00186 J</b>	<b>0.0138</b>	<b>0.0845</b>	<b>0.173</b>
PCB-188	ng/L	E1668A	0.000541 U	0.000936 U	0.00191 U	0.00194 U	0.00693 U
PCB-189	ng/L	E1668A	0.00103 U	0.0015 U	0.00249 U	0.00286 U	0.00782 U
PCB-190	ng/L	E1668A	<b>0.00293 J</b>	0.00118 U	0.00308 U	<b>0.0134</b>	<b>0.0246 J</b>
PCB-191	ng/L	E1668A	0.000726 U	0.00113 U	0.00328 U	0.00391 U	0.0105 U
PCB-192	ng/L	E1668A	0.000763 U	0.00119 U	0.00336 U	0.004 U	0.0107 U
PCB-194	ng/L	E1668A	<b>0.00722 J</b>	0.00231 U	0.00525 U	<b>0.032</b>	<b>0.0716</b>
PCB-195	ng/L	E1668A	0.00186 U	0.00251 U	0.00538 U	<b>0.0141</b>	<b>0.0229 J</b>
PCB-196	ng/L	E1668A	<b>0.00399 J</b>	0.00177 U	0.00372 U	<b>0.0229</b>	<b>0.0249 J</b>
PCB-197	ng/L	E1668A	0.000767 U	0.00124 U	0.00242 U	0.0023 U	0.00843 U
PCB-198/199	ng/L	E1668A	<b>0.00864 J</b>	0.00187 U	<b>0.00505 J</b>	<b>0.048</b>	<b>0.0616 J</b>
PCB-200	ng/L	E1668A	0.00077 U	0.00124 U	0.00274 U	0.00261 U	0.00955 U
PCB-201	ng/L	E1668A	0.000748 U	0.00121 U	0.00253 U	<b>0.00906 J</b>	<b>0.0139 J</b>
PCB-202	ng/L	E1668A	<b>0.00255 J</b>	0.00128 U	0.00274 U	<b>0.0196 J</b>	<b>0.0397</b>
PCB-203	ng/L	E1668A	<b>0.00418 J</b>	0.00173 U	0.00363 U	<b>0.0302</b>	<b>0.0378</b>
PCB-204	ng/L	E1668A	0.000805 U	0.0013 U	0.00271 U	0.00258 U	0.00945 U
PCB-205	ng/L	E1668A	0.00131 U	0.00177 U	0.00449 U	0.00509 U	0.0155 U
PCB-206	ng/L	E1668A	0.00369 U	0.0052 U	0.00684 U	<b>0.0621</b>	<b>0.144</b>
PCB-207	ng/L	E1668A	<b>0.00252 J</b>	0.00303 U	0.00421 U	<b>0.0395</b>	<b>0.061</b>
PCB-208	ng/L	E1668A	<b>0.00415 J</b>	0.00307 U	0.00437 U	<b>0.0468</b>	<b>0.0841</b>
PCB-209	ng/L	E1668A	<b>0.0414</b>	0.00169 U	<b>0.0441</b>	<b>1.68</b>	<b>3.66</b>
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		0.00147 U	0.00334 U	<b>0.008095 J</b>	<b>0.04811 J</b>	<b>0.0766 J</b>
Total Monochlorobiphenyl homologs (U = 0)	ng/L		0.00147 U	0.00334 U	<b>0.00604 J</b>	<b>0.04811 J</b>	<b>0.0733 J</b>

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID		EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403	
	Sample ID		EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N	
	Sample Date		03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014	
	Sample Type		N	RB	N	FD	N	
	X		3201916.50194	--	3201174.50723	3202147.78626	3202147.78626	
	Y		13831060.0595	--	13837021.2519	13836299.7878	13836299.7878	
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		0.03744 J	0.024615 J	0.19279 J	0.611395 J	0.94025 J	
Total Dichlorobiphenyl homologs (U = 0)	ng/L		0.02053 J	0.00313 J	0.1663 J	0.593 J	0.9081 J	
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		0.281755 J	0.04014 J	0.600765 J	5.85717 J	9.67384	
Total Trichlorobiphenyl homologs (U = 0)	ng/L		0.27575 J	0.01287 J	0.5901 J	5.84756 J	9.6497	
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		1.009076 J	0.173975 J	0.66254 J	12.7564 J	20.852325 J	
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		1.00225 J	0.1482 J	0.64463 J	12.74133 J	20.8153 J	
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		0.6454655 J	0.00466 U	0.42974 J	5.330595 J	9.960005 J	
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		0.63751 J	0.00466 U	0.39204 J	5.30596 J	9.896 J	
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		0.3419275 J	0.00457 U	0.252095 J	1.70615 J	3.209705 J	
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		0.33665 J	0.00457 U	0.22408 J	1.68435 J	3.1379 J	
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		0.1268465 J	0.017958 J	0.089335 J	0.55252 J	1.139365 J	
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		0.12289 J	0.0047 J	0.06608 J	0.53515 J	1.09 J	
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		0.02971 J	0.00251 U	0.022855 J	0.18215 J	0.293865 J	
Total Octachlorobiphenyl homologs (U = 0)	ng/L		0.02658 J	0.00251 U	0.00505 J	0.17586 J	0.2724 J	
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		0.008515 J	0.0052 U	0.00684 U	0.1484	0.2891	
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		0.00667 J	0.0052 U	0.00684 U	0.1484	0.2891	
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		0.0414	0.00169 U	0.0441	1.68	3.66	
Total Decachlorobiphenyl homologs (U = 0)	ng/L		0.0414	0.00169 U	0.0441	1.68	3.66	
Total PCB Congener (U = 1/2)	ng/L		2.5242555 J	0.33117 J	2.310025 J	28.87289 J	50.095055 J	
Total PCB Congener (U = 0)	ng/L		2.47023 J	0.1689 J	2.13842 J	28.75972 J	49.7918 J	
<b>PCB Congeners, Dissolved (ng/L)</b>								
PCB-001	ng/L	E1668A	--	0.00167 U	--	0.0328	0.0332	
PCB-002	ng/L	E1668A	--	0.00138 U	--	0.00291 U	0.00279 U	
PCB-003	ng/L	E1668A	--	0.00161 U	--	0.00662 J	0.00276 U	
PCB-004	ng/L	E1668A	--	0.00307 U	--	0.241 J	0.265 J	
PCB-005	ng/L	E1668A	--	0.00196 U	--	0.00389 UJ	0.00464 UJ	
PCB-006	ng/L	E1668A	--	0.00199 U	--	0.028 J	0.0342 J	
PCB-007	ng/L	E1668A	--	0.00187 U	--	0.00362 UJ	0.00432 UJ	
PCB-008	ng/L	E1668A	--	0.00191 U	--	0.144 J	0.152 J	
PCB-009	ng/L	E1668A	--	0.0022 U	--	0.00691 J	0.00972 J	
PCB-010	ng/L	E1668A	--	0.00198 U	--	0.00813 J	0.00972 J	
PCB-011	ng/L	E1668A	--	0.0116 U	--	0.03 UJ	0.0348 J	
PCB-012/013	ng/L	E1668A	--	0.00199 U	--	0.00406 UJ	0.00752 J	
PCB-014	ng/L	E1668A	--	0.00168 U	--	0.00335 UJ	0.004 UJ	
PCB-015	ng/L	E1668A	--	0.00207 U	--	0.0836 J	0.0904 J	
PCB-016	ng/L	E1668A	--	0.00362 U	--	0.327	0.398	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
Sample Date	Sample Type	Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
Sample Date	Sample Type		N	RB	N	FD	N
Sample Date	Sample Type		3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
Sample Date	Sample Type		13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-017	ng/L	E1668A	--	<b>0.00599 J</b>	--	<b>0.309</b>	<b>0.362</b>
PCB-018/030	ng/L	E1668A	--	0.00242 U	--	<b>0.919</b>	<b>1.11</b>
PCB-019	ng/L	E1668A	--	0.00328 U	--	<b>0.117</b>	<b>0.139</b>
PCB-020/028	ng/L	E1668A	--	0.00476 U	--	<b>0.719</b>	<b>0.738</b>
PCB-021/033	ng/L	E1668A	--	<b>0.00435 J</b>	--	<b>0.254</b>	<b>0.26</b>
PCB-022	ng/L	E1668A	--	<b>0.00195 J</b>	--	<b>0.19</b>	<b>0.203</b>
PCB-023	ng/L	E1668A	--	0.00144 U	--	0.00435 U	0.00423 U
PCB-024	ng/L	E1668A	--	0.00218 U	--	<b>0.00538 J</b>	<b>0.00752 J</b>
PCB-025	ng/L	E1668A	--	<b>0.00298 J</b>	--	<b>0.0444</b>	<b>0.0444</b>
PCB-026/029	ng/L	E1668A	--	0.00141 U	--	<b>0.118</b>	<b>0.121</b>
PCB-027	ng/L	E1668A	--	0.00208 U	--	<b>0.0503</b>	<b>0.0647</b>
PCB-031	ng/L	E1668A	--	0.00309 U	--	<b>0.773</b>	<b>0.803</b>
PCB-032	ng/L	E1668A	--	0.00195 U	--	<b>0.256</b>	<b>0.312</b>
PCB-034	ng/L	E1668A	--	0.00146 U	--	0.00433 U	0.00421 U
PCB-035	ng/L	E1668A	--	0.00165 U	--	<b>0.00995 J</b>	<b>0.00966 J</b>
PCB-036	ng/L	E1668A	--	0.00145 U	--	0.00416 U	0.00405 U
PCB-037	ng/L	E1668A	--	0.0018 U	--	<b>0.0937</b>	<b>0.0987</b>
PCB-038	ng/L	E1668A	--	0.00155 U	--	0.00461 U	0.00448 U
PCB-039	ng/L	E1668A	--	0.00139 U	--	0.00417 U	0.00405 U
PCB-040/071	ng/L	E1668A	--	0.00133 U	--	<b>0.381</b>	<b>0.379</b>
PCB-041	ng/L	E1668A	--	0.00166 U	--	<b>0.071</b>	<b>0.081</b>
PCB-042	ng/L	E1668A	--	0.00149 U	--	<b>0.219</b>	<b>0.223</b>
PCB-043	ng/L	E1668A	--	0.0016 U	--	<b>0.031 J</b>	<b>0.0326</b>
PCB-044/047/065	ng/L	E1668A	--	<b>0.0222 J</b>	--	<b>0.94</b>	<b>0.944</b>
PCB-045	ng/L	E1668A	--	0.00155 U	--	<b>0.181</b>	<b>0.194</b>
PCB-046	ng/L	E1668A	--	0.00163 U	--	<b>0.068</b>	<b>0.0681</b>
PCB-048	ng/L	E1668A	--	0.00135 U	--	<b>0.173</b>	<b>0.171</b>
PCB-049/069	ng/L	E1668A	--	0.00245 U	--	<b>0.569</b>	<b>0.567</b>
PCB-050/053	ng/L	E1668A	--	0.00131 U	--	<b>0.194</b>	<b>0.195</b>
PCB-051	ng/L	E1668A	--	<b>0.0525</b>	--	<b>0.0589</b>	<b>0.0508</b>
PCB-052	ng/L	E1668A	--	0.00405 U	--	<b>1.22</b>	<b>1.23</b>
PCB-054	ng/L	E1668A	--	0.00084 U	--	0.00417 U	<b>0.00453 J</b>
PCB-055	ng/L	E1668A	--	0.00126 U	--	0.00447 U	0.00324 U
PCB-056	ng/L	E1668A	--	0.00128 U	--	<b>0.231</b>	<b>0.266</b>
PCB-057	ng/L	E1668A	--	0.0012 U	--	0.0043 U	0.00311 U
PCB-058	ng/L	E1668A	--	0.00115 U	--	0.0042 U	0.00304 U

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
		Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
			N	RB	N	FD	N
			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-059/062/075	ng/L	E1668A	--	0.000989 U	--	<b>0.0678</b>	<b>0.0698</b>
PCB-060	ng/L	E1668A	--	0.00127 U	--	<b>0.0962</b>	<b>0.104</b>
PCB-061/070/074/076	ng/L	E1668A	--	0.00448 U	--	<b>0.948</b>	<b>1.01</b>
PCB-063	ng/L	E1668A	--	0.00107 U	--	<b>0.0139</b>	<b>0.015</b>
PCB-064	ng/L	E1668A	--	0.000936 U	--	<b>0.351</b>	<b>0.354</b>
PCB-066	ng/L	E1668A	--	<b>0.00247 J</b>	--	<b>0.522</b>	<b>0.559</b>
PCB-067	ng/L	E1668A	--	0.00113 U	--	<b>0.00926 J</b>	<b>0.00935 J</b>
PCB-068	ng/L	E1668A	--	<b>0.0331</b>	--	0.00387 U	<b>0.0139</b>
PCB-072	ng/L	E1668A	--	0.00113 U	--	0.00418 U	0.00303 U
PCB-073	ng/L	E1668A	--	0.00103 U	--	0.00375 U	0.00264 U
PCB-077	ng/L	E1668A	--	0.00137 U	--	<b>0.03</b>	<b>0.0351</b>
PCB-078	ng/L	E1668A	--	0.00134 U	--	0.00465 U	0.00337 U
PCB-079	ng/L	E1668A	--	0.00112 U	--	0.00381 U	0.00276 U
PCB-080	ng/L	E1668A	--	0.00107 U	--	0.00379 U	0.00275 U
PCB-081	ng/L	E1668A	--	0.00137 U	--	0.0046 U	0.00333 U
PCB-082	ng/L	E1668A	--	0.0014 U	--	<b>0.0459</b>	<b>0.035</b>
PCB-083	ng/L	E1668A	--	0.00135 U	--	<b>0.0176</b>	<b>0.0149</b>
PCB-084	ng/L	E1668A	--	0.00132 U	--	<b>0.102</b>	<b>0.101</b>
PCB-085/116	ng/L	E1668A	--	0.0011 U	--	<b>0.0544</b>	<b>0.0472</b>
PCB-086/087/097/108/119/125	ng/L	E1668A	--	0.000997 U	--	<b>0.184</b>	<b>0.177</b>
PCB-088	ng/L	E1668A	--	0.00121 U	--	0.00542 U	0.00416 U
PCB-089	ng/L	E1668A	--	0.00126 U	--	0.00581 U	0.00446 U
PCB-090/101/113	ng/L	E1668A	--	0.00332 U	--	<b>0.236</b>	<b>0.234</b>
PCB-091	ng/L	E1668A	--	0.00103 U	--	<b>0.053</b>	<b>0.0486</b>
PCB-092	ng/L	E1668A	--	0.00116 U	--	<b>0.038</b>	<b>0.0389</b>
PCB-093/100	ng/L	E1668A	--	0.00111 U	--	0.00528 U	0.00405 U
PCB-094	ng/L	E1668A	--	0.00118 U	--	0.00563 U	0.00432 U
PCB-095	ng/L	E1668A	--	0.00345 U	--	<b>0.252</b>	<b>0.246</b>
PCB-096	ng/L	E1668A	--	0.000861 U	--	<b>0.00761 J</b>	<b>0.011</b>
PCB-098	ng/L	E1668A	--	0.0013 U	--	0.00551 U	0.00423 U
PCB-099	ng/L	E1668A	--	0.00107 U	--	<b>0.129</b>	<b>0.128</b>
PCB-102	ng/L	E1668A	--	0.000942 U	--	<b>0.0162</b>	<b>0.00999 J</b>
PCB-103	ng/L	E1668A	--	0.000997 U	--	0.00486 U	0.00373 U
PCB-104	ng/L	E1668A	--	0.000709 U	--	0.00383 U	0.0032 U
PCB-105	ng/L	E1668A	--	0.000915 U	--	<b>0.0774</b>	<b>0.0781</b>
PCB-106	ng/L	E1668A	--	0.000925 U	--	0.0043 U	0.0033 U

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID			EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
	Sample ID			EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
	Sample Date			03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
	Sample Type			N	RB	N	FD	N
	X			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
	Y			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-107/124	ng/L	E1668A	--	0.000915 U	--	<b>0.00754 J</b>	<b>0.00708 J</b>	
PCB-109	ng/L	E1668A	--	0.000809 U	--	<b>0.0148</b>	<b>0.0125</b>	
PCB-110	ng/L	E1668A	--	0.00351 U	--	<b>0.283</b>	<b>0.292</b>	
PCB-111	ng/L	E1668A	--	0.000818 U	--	0.00381 U	0.00292 U	
PCB-112	ng/L	E1668A	--	0.00082 U	--	0.004 U	0.00307 U	
PCB-114	ng/L	E1668A	--	0.00082 U	--	0.00395 U	0.003 U	
PCB-115	ng/L	E1668A	--	0.000837 U	--	0.00386 U	0.00296 U	
PCB-117	ng/L	E1668A	--	0.000936 U	--	0.00425 U	<b>0.005 J</b>	
PCB-118	ng/L	E1668A	--	0.00173 U	--	<b>0.145</b>	<b>0.157</b>	
PCB-120	ng/L	E1668A	--	0.000808 U	--	0.00382 U	0.00293 U	
PCB-121	ng/L	E1668A	--	0.000782 U	--	0.00382 U	0.00293 U	
PCB-122	ng/L	E1668A	--	0.000955 U	--	0.0045 U	0.00342 U	
PCB-123	ng/L	E1668A	--	0.000844 U	--	0.00409 U	<b>0.00417 J</b>	
PCB-126	ng/L	E1668A	--	0.00105 U	--	0.00332 U	0.00262 U	
PCB-127	ng/L	E1668A	--	0.000893 U	--	0.00425 U	0.00339 U	
PCB-128/166	ng/L	E1668A	--	0.00107 U	--	<b>0.00822 J</b>	<b>0.0132 J</b>	
PCB-129/138/163	ng/L	E1668A	--	0.000947 U	--	<b>0.0832</b>	<b>0.0906</b>	
PCB-130	ng/L	E1668A	--	0.00115 U	--	0.00473 U	<b>0.0112</b>	
PCB-131	ng/L	E1668A	--	0.00109 U	--	0.00451 U	0.00309 U	
PCB-132	ng/L	E1668A	--	0.00107 U	--	<b>0.0288</b>	<b>0.0318</b>	
PCB-133	ng/L	E1668A	--	0.000995 U	--	0.00425 U	0.00291 U	
PCB-134	ng/L	E1668A	--	0.00131 U	--	0.00465 U	0.00319 U	
PCB-135/151	ng/L	E1668A	--	0.000946 U	--	<b>0.0273 J</b>	<b>0.0259 J</b>	
PCB-136	ng/L	E1668A	--	0.00075 U	--	<b>0.0135 J</b>	<b>0.0192</b>	
PCB-137	ng/L	E1668A	--	0.000925 U	--	0.00415 U	0.00284 U	
PCB-139/140	ng/L	E1668A	--	0.000913 U	--	0.00389 U	0.00266 U	
PCB-141	ng/L	E1668A	--	0.00104 U	--	<b>0.0156</b>	<b>0.0171</b>	
PCB-142	ng/L	E1668A	--	0.00111 U	--	0.00449 U	0.00308 U	
PCB-143	ng/L	E1668A	--	0.000915 U	--	0.00431 U	0.00296 U	
PCB-144	ng/L	E1668A	--	0.000931 U	--	0.00395 U	0.00271 U	
PCB-145	ng/L	E1668A	--	0.000722 U	--	0.00326 U	0.00242 U	
PCB-146	ng/L	E1668A	--	0.000906 U	--	<b>0.0157</b>	<b>0.0175</b>	
PCB-147/149	ng/L	E1668A	--	0.00257 U	--	<b>0.07</b>	<b>0.0742</b>	
PCB-148	ng/L	E1668A	--	0.000914 U	--	0.00394 U	0.0027 U	
PCB-150	ng/L	E1668A	--	0.000689 U	--	0.00313 U	0.00232 U	
PCB-152	ng/L	E1668A	--	0.00069 U	--	0.00312 U	0.00232 U	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Sample Date	Sample Type	X	EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
		Y	03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
			N	RB	N	FD	N
			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-153/168	ng/L	E1668A	--	0.00229 U	--	<b>0.0644</b>	<b>0.0706</b>
PCB-154	ng/L	E1668A	--	0.0008 U	--	0.00355 U	0.00243 U
PCB-155	ng/L	E1668A	--	0.000588 U	--	0.00289 U	0.00215 U
PCB-156/157	ng/L	E1668A	--	0.00132 U	--	<b>0.00659 J</b>	<b>0.0076 J</b>
PCB-158	ng/L	E1668A	--	0.000701 U	--	<b>0.00932 J</b>	<b>0.0112</b>
PCB-159	ng/L	E1668A	--	0.000879 U	--	0.00366 U	0.00262 U
PCB-160	ng/L	E1668A	--	0.000815 U	--	0.00334 U	0.00229 U
PCB-161	ng/L	E1668A	--	0.000726 U	--	0.00313 U	0.00215 U
PCB-162	ng/L	E1668A	--	0.000887 U	--	0.00364 U	0.00261 U
PCB-164	ng/L	E1668A	--	0.000773 U	--	0.00304 U	0.00208 U
PCB-165	ng/L	E1668A	--	0.000788 U	--	0.00338 U	0.00232 U
PCB-167	ng/L	E1668A	--	0.000815 U	--	0.00355 U	0.00254 U
PCB-169	ng/L	E1668A	--	0.00102 U	--	0.00487 U	0.00316 U
PCB-170	ng/L	E1668A	--	0.00143 U	--	<b>0.0113</b>	<b>0.0118</b>
PCB-171/173	ng/L	E1668A	--	0.00145 U	--	0.00547 U	0.00476 U
PCB-172	ng/L	E1668A	--	0.0014 U	--	0.00549 U	0.00477 U
PCB-174	ng/L	E1668A	--	0.0014 U	--	<b>0.00975 J</b>	<b>0.0121</b>
PCB-175	ng/L	E1668A	--	0.00126 U	--	0.00488 U	0.00424 U
PCB-176	ng/L	E1668A	--	0.000937 U	--	0.00297 U	0.00211 U
PCB-177	ng/L	E1668A	--	0.00142 U	--	0.0055 U	<b>0.00794 J</b>
PCB-178	ng/L	E1668A	--	0.00143 U	--	0.00433 U	0.00307 U
PCB-179	ng/L	E1668A	--	0.000992 U	--	<b>0.00706 J</b>	<b>0.0106</b>
PCB-180/193	ng/L	E1668A	--	0.00111 U	--	<b>0.0243</b>	<b>0.0242</b>
PCB-181	ng/L	E1668A	--	0.00126 U	--	0.00488 U	0.00424 U
PCB-182	ng/L	E1668A	--	0.00115 U	--	0.00452 U	0.00392 U
PCB-183	ng/L	E1668A	--	0.0011 U	--	0.00446 U	<b>0.00513 J</b>
PCB-184	ng/L	E1668A	--	0.00103 U	--	0.00334 U	0.00236 U
PCB-185	ng/L	E1668A	--	0.00133 U	--	0.00471 U	0.00409 U
PCB-186	ng/L	E1668A	--	0.00102 U	--	0.00319 U	0.00226 U
PCB-187	ng/L	E1668A	--	0.00117 U	--	<b>0.0159</b>	<b>0.0165</b>
PCB-188	ng/L	E1668A	--	0.000837 U	--	0.00302 U	0.00214 U
PCB-189	ng/L	E1668A	--	0.00108 U	--	0.00359 U	0.00328 U
PCB-190	ng/L	E1668A	--	0.00103 U	--	0.00434 U	0.00346 U
PCB-191	ng/L	E1668A	--	0.00103 U	--	0.00416 U	0.00361 U
PCB-192	ng/L	E1668A	--	0.00107 U	--	0.00426 U	0.0037 U
PCB-194	ng/L	E1668A	--	0.00198 U	--	0.00759 U	<b>0.00746 J</b>



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task			EF006.1_201403	Field QC	HSC14.1_201403	PB006.2_201403	PB006.2_201403
Location ID							
Sample ID			EF006.1-1SWMID-140313-N	EB1-01_20140313	HSC14.1-1SWMID-140311-N	PB006.2-1SWMID-140311-D	PB006.2-1SWMID-140311-N
Sample Date			03/13/2014	03/13/2014	03/11/2014	03/11/2014	03/11/2014
Sample Type			N	RB	N	FD	N
X			3201916.50194	--	3201174.50723	3202147.78626	3202147.78626
Y			13831060.0595	--	13837021.2519	13836299.7878	13836299.7878
PCB-195	ng/L	E1668A	--	0.00203 U	--	0.00777 U	0.00505 U
PCB-196	ng/L	E1668A	--	0.00167 U	--	0.00546 U	0.00428 U
PCB-197	ng/L	E1668A	--	0.0011 U	--	0.00355 U	0.00278 U
PCB-198/199	ng/L	E1668A	--	0.00178 U	--	<b>0.00937 J</b>	<b>0.00787 J</b>
PCB-200	ng/L	E1668A	--	0.00119 U	--	0.00402 U	0.00315 U
PCB-201	ng/L	E1668A	--	0.00113 U	--	0.00372 U	0.00291 U
PCB-202	ng/L	E1668A	--	0.00118 U	--	0.00403 U	0.00316 U
PCB-203	ng/L	E1668A	--	0.0016 U	--	0.00533 U	0.00418 U
PCB-204	ng/L	E1668A	--	0.0012 U	--	0.00398 U	0.00312 U
PCB-205	ng/L	E1668A	--	0.00157 U	--	0.0065 U	0.00422 U
PCB-206	ng/L	E1668A	--	0.00394 U	--	0.00865 U	0.0072 U
PCB-207	ng/L	E1668A	--	0.00248 U	--	0.00562 U	0.00472 U
PCB-208	ng/L	E1668A	--	0.00253 U	--	<b>0.00757 J</b>	<b>0.0071 J</b>
PCB-209	ng/L	E1668A	--	0.00131 U	--	<b>0.189</b>	<b>0.196</b>
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00167 U	--	<b>0.040875 J</b>	<b>0.035975</b>
Total Monochlorobiphenyl homologs (U = 0)	ng/L		--	0.00167 U	--	<b>0.03942 J</b>	<b>0.0332</b>
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		--	0.0116 U	--	<b>0.5341 J</b>	<b>0.60984 J</b>
Total Dichlorobiphenyl homologs (U = 0)	ng/L		--	0.0116 U	--	<b>0.51164 J</b>	<b>0.60336 J</b>
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		--	<b>0.033035 J</b>	--	<b>4.19654 J</b>	<b>4.68149 J</b>
Total Trichlorobiphenyl homologs (U = 0)	ng/L		--	<b>0.01527 J</b>	--	<b>4.18573 J</b>	<b>4.67098 J</b>
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		--	<b>0.1314975 J</b>	--	<b>6.397955 J</b>	<b>6.589815 J</b>
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		--	<b>0.11027 J</b>	--	<b>6.37506 J</b>	<b>6.57618 J</b>
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00351 U	--	<b>1.705605 J</b>	<b>1.676785 J</b>
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		--	0.00351 U	--	<b>1.66345 J</b>	<b>1.64744 J</b>
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00257 U	--	<b>0.386345 J</b>	<b>0.418875 J</b>
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		--	0.00257 U	--	<b>0.34263 J</b>	<b>0.3901 J</b>
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00145 U	--	<b>0.104865 J</b>	<b>0.114275 J</b>
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		--	0.00145 U	--	<b>0.06831 J</b>	<b>0.08827 J</b>
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00203 U	--	<b>0.035345 J</b>	<b>0.031755 J</b>
Total Octachlorobiphenyl homologs (U = 0)	ng/L		--	0.00203 U	--	<b>0.00937 J</b>	<b>0.01533 J</b>
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00394 U	--	<b>0.014705 J</b>	<b>0.01306 J</b>
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		--	0.00394 U	--	<b>0.00757 J</b>	<b>0.0071 J</b>
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		--	0.00131 U	--	<b>0.189</b>	<b>0.196</b>
Total Decachlorobiphenyl homologs (U = 0)	ng/L		--	0.00131 U	--	<b>0.189</b>	<b>0.196</b>
Total PCB Congener (U = 1/2)	ng/L		--	<b>0.2484295 J</b>	--	<b>13.605335 J</b>	<b>14.36787 J</b>
Total PCB Congener (U = 0)	ng/L		--	<b>0.12554 J</b>	--	<b>13.39218 J</b>	<b>14.22796 J</b>

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID			PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
	Sample ID			PB020-1SWMID-140313-N	PB031.1-1SWMID-140313-N	PB047.3-1SWMID-140313-N	PB056_C-1SWMID-140313-N	PB070_B-1SWMID-140314-N
	Sample Date			03/13/2014	03/13/2014	03/13/2014	03/13/2014	03/14/2014
	Sample Type			N	N	N	N	N
	X			3201304.60061	3201398.81385	3201688.0477	3201506.28651	3201105.66718
	Y			13835636.4127	13834597.3501	13832857.2637	13832189.4532	13830874.0613
<b>Conventional Parameters (mg/L)</b>								
Total suspended solids	mg/L	SM2540D		20 J	16 J	18 J	34	19 J
Dissolved organic carbon	mg/L	SW9060		--	--	--	12.9	--
Total organic carbon	mg/L	SW9060		7.12	6.79	5.69	9.34	9.44
<b>PCB Congeners (ng/L)</b>								
PCB-001	ng/L	E1668A		0.0343	0.0251	0.0178	0.0337	0.0618
PCB-002	ng/L	E1668A		0.00296 J	0.00129 U	0.00383 J	0.00136 U	0.00274 J
PCB-003	ng/L	E1668A		0.0102 J	0.00672 J	0.00808 J	0.00773 J	0.00823 J
PCB-004	ng/L	E1668A		0.191	0.169	0.1	0.218	0.531
PCB-005	ng/L	E1668A		0.00118 U	0.00155 U	0.00162 U	0.00171 U	0.00626 J
PCB-006	ng/L	E1668A		0.0369	0.029	0.0123 J	0.0543	0.0887
PCB-007	ng/L	E1668A		0.00437 J	0.00384 J	0.00149 U	0.00588 J	0.00876 J
PCB-008	ng/L	E1668A		0.16	0.13	0.0586	0.233	0.362
PCB-009	ng/L	E1668A		0.011	0.00797 J	0.00431 J	0.0145	0.024
PCB-010	ng/L	E1668A		0.00835 J	0.00709 J	0.00533 J	0.00821 J	0.0216
PCB-011	ng/L	E1668A		0.0307 U	0.0235 U	0.0188 U	0.0309 U	0.035 U
PCB-012/013	ng/L	E1668A		0.0104 J	0.0106 J	0.00753 J	0.0224	0.0331
PCB-014	ng/L	E1668A		0.000983 U	0.00129 U	0.00135 U	0.00142 U	0.00107 U
PCB-015	ng/L	E1668A		0.102	0.0946	0.0589	0.16	0.279
PCB-016	ng/L	E1668A		0.368	0.324	0.131	0.623	1.43
PCB-017	ng/L	E1668A		0.381	0.316	0.14	0.625	1.31
PCB-018/030	ng/L	E1668A		1.06	0.918	0.37	1.79	3.93
PCB-019	ng/L	E1668A		0.109	0.103	0.0573	0.155	0.391
PCB-020/028	ng/L	E1668A		1.06	0.879	0.397	2.13	2.74
PCB-021/033	ng/L	E1668A		0.382	0.296	0.109	0.702	0.778
PCB-022	ng/L	E1668A		0.295	0.245	0.103	0.594	0.732
PCB-023	ng/L	E1668A		0.00166 U	0.00163 U	0.00163 U	0.00137 U	0.00147 U
PCB-024	ng/L	E1668A		0.00134 U	0.00119 U	0.0015 U	0.0114	0.0264
PCB-025	ng/L	E1668A		0.0707	0.0598	0.0274	0.133	0.165
PCB-026/029	ng/L	E1668A		0.172	0.14	0.063	0.327	0.425
PCB-027	ng/L	E1668A		0.0577	0.051	0.0245	0.0987	0.226
PCB-031	ng/L	E1668A		1.11	0.903	0.39	2.17	2.78
PCB-032	ng/L	E1668A		0.317	0.274	0.123	0.559	1.19
PCB-034	ng/L	E1668A		0.00575 J	0.00447 J	0.00222 J	0.00885 J	0.00961 J
PCB-035	ng/L	E1668A		0.019	0.0129	0.00735 J	0.039	0.04
PCB-036	ng/L	E1668A		0.0016 U	0.00157 U	0.00157 U	0.00132 U	0.00142 U

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
			X	PB020-1SWMID-140313-N	PB031.1-1SWMID-140313-N	PB047.3-1SWMID-140313-N	PB056_C-1SWMID-140313-N	PB070_B-1SWMID-140314-N
			Y	03/13/2014	03/13/2014	03/13/2014	03/13/2014	03/14/2014
				N	N	N	N	N
				3201304.60061	3201398.81385	3201688.0477	3201506.28651	3201105.66718
				13835636.4127	13834597.3501	13832857.2637	13832189.4532	13830874.0613
PCB-037	ng/L	E1668A		0.205	0.162	0.0715	0.447	0.482
PCB-038	ng/L	E1668A		0.00171 U	0.00167 U	0.00168 U	0.00685 J	0.00627 J
PCB-039	ng/L	E1668A		0.00155 U	0.00151 U	0.00411 J	0.026	0.027
PCB-040/071	ng/L	E1668A		0.849	0.658	0.33	1.84	2.06
PCB-041	ng/L	E1668A		0.132	0.113	0.0441	0.353	0.41
PCB-042	ng/L	E1668A		0.486	0.367	0.184	1.05	1.17
PCB-043	ng/L	E1668A		0.0651	0.0542	0.027	0.17	0.182
PCB-044/047/065	ng/L	E1668A		1.95	1.47	0.77	4.1	4.59
PCB-045	ng/L	E1668A		0.323	0.261	0.117	0.661	0.907
PCB-046	ng/L	E1668A		0.126	0.0983	0.0519	0.251	0.364
PCB-048	ng/L	E1668A		0.367	0.295	0.139	0.846	0.936
PCB-049/069	ng/L	E1668A		1.2	0.887	0.456	2.5	2.61
PCB-050/053	ng/L	E1668A		0.333	0.266	0.141	0.69	0.874
PCB-051	ng/L	E1668A		0.103	0.0853	0.0478	0.167	0.198
PCB-052	ng/L	E1668A		2.35	1.79	0.912	4.87	5.34
PCB-054	ng/L	E1668A		0.00602 J	0.00571 J	0.00389 J	0.00982 J	0.0166
PCB-055	ng/L	E1668A		0.0138	0.00179 U	0.0051 J	0.00214 U	0.0349
PCB-056	ng/L	E1668A		0.703	0.519	0.252	1.71	1.61
PCB-057	ng/L	E1668A		0.00611 J	0.00499 J	0.00226 J	0.0137	0.0128
PCB-058	ng/L	E1668A		0.00157 U	0.00302 J	0.00173 U	0.00467 J	0.00746 J
PCB-059/062/075	ng/L	E1668A		0.143	0.107	0.0516	0.298	0.329
PCB-060	ng/L	E1668A		0.302	0.24	0.106	0.809	0.687
PCB-061/070/074/076	ng/L	E1668A		2.65	1.94	0.953	6.23	5.5
PCB-063	ng/L	E1668A		0.05	0.0389	0.0185	0.125	0.107
PCB-064	ng/L	E1668A		0.773	0.589	0.289	1.69	1.78
PCB-066	ng/L	E1668A		1.54	1.12	0.541	3.61	3.32
PCB-067	ng/L	E1668A		0.034	0.0259	0.0119	0.0812	0.0712
PCB-068	ng/L	E1668A		0.0288	0.0322	0.0132	0.0305	0.028
PCB-072	ng/L	E1668A		0.014	0.0095 J	0.00488 J	0.0226	0.0186
PCB-073	ng/L	E1668A		0.00321 J	0.00215 J	0.00266 J	0.000761 U	0.0102 J
PCB-077	ng/L	E1668A		0.123	0.0834	0.0437	0.298	0.241
PCB-078	ng/L	E1668A		0.00172 U	0.00185 U	0.0019 U	0.00222 U	0.0014 U
PCB-079	ng/L	E1668A		0.014	0.00884 J	0.00402 J	0.0318	0.0203
PCB-080	ng/L	E1668A		0.00138 U	0.00149 U	0.00153 U	0.00178 U	0.00114 U
PCB-081	ng/L	E1668A		0.00171 U	0.00364 J	0.00188 U	0.0154	0.0101 J
PCB-082	ng/L	E1668A		0.167	0.125	0.064	0.417	0.385

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
				PB020-1SWMID-140313-N	PB031.1-1SWMID-140313-N	PB047.3-1SWMID-140313-N	PB056_C-1SWMID-140313-N	PB070_B-1SWMID-140314-N
				03/13/2014	03/13/2014	03/13/2014	03/13/2014	03/14/2014
				N	N	N	N	N
			X	3201304.60061	3201398.81385	3201688.0477	3201506.28651	3201105.66718
			Y	13835636.4127	13834597.3501	13832857.2637	13832189.4532	13830874.0613
PCB-083	ng/L	E1668A		0.0543	0.0442	0.0197	0.146	0.112
PCB-084	ng/L	E1668A		0.33	0.244	0.139	0.731	0.761
PCB-085/116	ng/L	E1668A		0.24	0.167	0.0982	0.566	0.456
PCB-086/087/097/108/119/125	ng/L	E1668A		0.716	0.523	0.28	1.7	1.46
PCB-088	ng/L	E1668A		0.00172 U	0.00159 U	0.00179 U	0.00222 U	0.00179 U
PCB-089	ng/L	E1668A		0.0297	0.0238	0.0124	0.0733	0.0781
PCB-090/101/113	ng/L	E1668A		0.88	0.642	0.352	1.95	1.61
PCB-091	ng/L	E1668A		0.205	0.148	0.0843	0.467	0.397
PCB-092	ng/L	E1668A		0.157	0.114	0.0667	0.357	0.31
PCB-093/100	ng/L	E1668A		0.0173 J	0.0121 J	0.00173 U	0.0387	0.0374
PCB-094	ng/L	E1668A		0.01 J	0.00832 J	0.00562 J	0.0241	0.0225
PCB-095	ng/L	E1668A		0.77	0.57	0.324	1.6	1.56
PCB-096	ng/L	E1668A		0.0202	0.0157	0.00967 J	0.0488	0.0532
PCB-098	ng/L	E1668A		0.0017 U	0.00158 U	0.00177 U	0.0022 U	0.00738 J
PCB-099	ng/L	E1668A		0.524	0.367	0.2	1.16	1.04
PCB-102	ng/L	E1668A		0.0616	0.0469	0.0236	0.138	0.11
PCB-103	ng/L	E1668A		0.0115	0.00716 J	0.00447 J	0.0197	0.0163
PCB-104	ng/L	E1668A		0.000455 U	0.000591 U	0.000593 U	0.000408 U	0.000385 U
PCB-105	ng/L	E1668A		0.37	0.268	0.134	0.977	0.714
PCB-106	ng/L	E1668A		0.00134 U	0.00124 U	0.0014 U	0.00174 U	0.00212 J
PCB-107/124	ng/L	E1668A		0.0313	0.023	0.0127 J	0.0812	0.0606
PCB-109	ng/L	E1668A		0.0595	0.0433	0.0228	0.135	0.108
PCB-110	ng/L	E1668A		1.09	0.792	0.419	2.43	1.94
PCB-111	ng/L	E1668A		0.00121 U	0.00112 U	0.00126 U	0.00156 U	0.00117 U
PCB-112	ng/L	E1668A		0.00125 U	0.00116 U	0.00131 U	0.00163 U	0.00528 J
PCB-114	ng/L	E1668A		0.0211	0.0155	0.00732 J	0.056	0.041
PCB-115	ng/L	E1668A		0.00129 U	0.0012 U	0.00135 U	0.00168 U	0.0502
PCB-117	ng/L	E1668A		0.00133 U	0.0138	0.00139 U	0.0685	0.0516
PCB-118	ng/L	E1668A		0.702	0.5	0.256	1.66	1.27
PCB-120	ng/L	E1668A		0.00119 U	0.0011 U	0.00124 U	0.00154 U	0.00314 J
PCB-121	ng/L	E1668A		0.00119 U	0.0011 U	0.00124 U	0.00154 U	0.00116 U
PCB-122	ng/L	E1668A		0.0154	0.0114	0.00491 J	0.0401	0.0319
PCB-123	ng/L	E1668A		0.0188	0.0123	0.00724 J	0.0488	0.0342
PCB-126	ng/L	E1668A		0.00508 J	0.00104 U	0.00103 U	0.0107	0.00734 J
PCB-127	ng/L	E1668A		0.00137 U	0.0013 U	0.0014 U	0.00173 U	0.00128 U
PCB-128/166	ng/L	E1668A		0.0782	0.0527	0.0306	0.159	0.103

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
				PB020-1SWMID-140313-N	PB031.1-1SWMID-140313-N	PB047.3-1SWMID-140313-N	PB056_C-1SWMID-140313-N	PB070_B-1SWMID-140314-N
				03/13/2014	03/13/2014	03/13/2014	03/13/2014	03/14/2014
				N	N	N	N	N
		X		3201304.60061	3201398.81385	3201688.0477	3201506.28651	3201105.66718
		Y		13835636.4127	13834597.3501	13832857.2637	13832189.4532	13830874.0613
PCB-129/138/163	ng/L	E1668A		0.492	0.335	0.191	0.926	0.589
PCB-130	ng/L	E1668A		0.0351	0.0244	0.0117 J	0.0687	0.0421
PCB-131	ng/L	E1668A		0.00786 J	0.00515 J	0.00321 J	0.0164	0.0118
PCB-132	ng/L	E1668A		0.159	0.111	0.0634	0.306	0.217
PCB-133	ng/L	E1668A		0.00816 J	0.00521 J	0.00338 J	0.0125	0.00794 J
PCB-134	ng/L	E1668A		0.0313	0.0214	0.01 J	0.0561	0.0414
PCB-135/151	ng/L	E1668A		0.141	0.0968	0.0575	0.24	0.161
PCB-136	ng/L	E1668A		0.0639	0.0429	0.0254	0.107	0.0753
PCB-137	ng/L	E1668A		0.0225	0.0125	0.00678 J	0.0442 J	0.0336
PCB-139/140	ng/L	E1668A		0.01 J	0.00605 J	0.0041 J	0.0189 J	0.0142 J
PCB-141	ng/L	E1668A		0.0754	0.0544	0.0297	0.154	0.0934
PCB-142	ng/L	E1668A		0.000833 U	0.000937 U	0.000963 U	0.000757 U	0.000502 U
PCB-143	ng/L	E1668A		0.000703 U	0.00079 U	0.000812 U	0.000638 U	0.00356 J
PCB-144	ng/L	E1668A		0.0207	0.0133	0.00803 J	0.0399	0.0259
PCB-145	ng/L	E1668A		0.000496 U	0.000531 U	0.000592 U	0.000492 U	0.000514 J
PCB-146	ng/L	E1668A		0.0722	0.0467	0.0288	0.115	0.0713
PCB-147/149	ng/L	E1668A		0.368	0.247	0.146	0.608	0.395
PCB-148	ng/L	E1668A		0.0012 J	0.000769 U	0.00079 U	0.000621 U	0.000868 J
PCB-150	ng/L	E1668A		0.000459 U	0.000492 U	0.000549 U	0.000456 U	0.000654 J
PCB-152	ng/L	E1668A		0.000473 U	0.000507 U	0.000565 U	0.00047 U	0.00102 J
PCB-153/168	ng/L	E1668A		0.351	0.234	0.14	0.593	0.357
PCB-154	ng/L	E1668A		0.00848 J	0.00467 J	0.00318 J	0.0108	0.00626 J
PCB-155	ng/L	E1668A		0.000408 U	0.000437 U	0.000488 U	0.000405 U	0.000254 U
PCB-156/157	ng/L	E1668A		0.0511	0.0351	0.0189 J	0.108	0.0677
PCB-158	ng/L	E1668A		0.047	0.0311	0.0168	0.0936	0.0589
PCB-159	ng/L	E1668A		0.00427 J	0.00291 J	0.000926 U	0.00672 J	0.00328 J
PCB-160	ng/L	E1668A		0.000607 U	0.000682 U	0.000701 U	0.000551 U	0.000357 U
PCB-161	ng/L	E1668A		0.00054 U	0.000607 U	0.000624 U	0.000491 U	0.000328 U
PCB-162	ng/L	E1668A		0.00215 J	0.000968 U	0.00093 U	0.00354 J	0.00214 J
PCB-164	ng/L	E1668A		0.0339	0.0241	0.0129	0.0607	0.0377
PCB-165	ng/L	E1668A		0.000582 U	0.000654 U	0.000673 U	0.000529 U	0.000355 U
PCB-167	ng/L	E1668A		0.0165	0.0109	0.00635 J	0.031	0.0197
PCB-169	ng/L	E1668A		0.00102 U	0.00108 U	0.00103 U	0.00111 U	0.000615 U
PCB-170	ng/L	E1668A		0.0795	0.054	0.0301	0.133	0.069
PCB-171/173	ng/L	E1668A		0.0286	0.02 J	0.012 J	0.0485	0.0246
PCB-172	ng/L	E1668A		0.0151	0.01 J	0.00634 J	0.0255	0.0122

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
Sample Date	Sample Type	X	Y				
PCB-174	ng/L	E1668A	0.0806	0.0539	0.031	0.129	0.0716
PCB-175	ng/L	E1668A	0.0045 J	0.00336 J	0.00147 U	0.00636 J	0.00306 J
PCB-176	ng/L	E1668A	0.0115	0.0065 J	0.00453 J	0.0173	0.00888 J
PCB-177	ng/L	E1668A	0.0523	0.0375	0.0228	0.0829	0.0435
PCB-178	ng/L	E1668A	0.0209	0.0129	0.00813 J	0.0295	0.0151
PCB-179	ng/L	E1668A	0.0384	0.0262	0.0165	0.0586	0.0323
PCB-180/193	ng/L	E1668A	0.157	0.109	0.0677	0.263	0.135
PCB-181	ng/L	E1668A	0.00117 U	0.00102 U	0.00149 U	0.00185 J	0.0011 J
PCB-182	ng/L	E1668A	0.00106 U	0.000921 U	0.00134 U	0.00112 U	0.000573 U
PCB-183	ng/L	E1668A	0.0463	0.0321	0.0199	0.0754	0.0382
PCB-184	ng/L	E1668A	0.000661 U	0.000554 U	0.000713 U	0.000597 U	0.000426 U
PCB-185	ng/L	E1668A	0.00957 J	0.00526 J	0.00292 J	0.0128	0.008 J
PCB-186	ng/L	E1668A	0.000638 U	0.000534 U	0.000688 U	0.000576 U	0.000409 U
PCB-187	ng/L	E1668A	0.105	0.0731	0.0451	0.161	0.0841
PCB-188	ng/L	E1668A	0.000543 U	0.000455 U	0.000585 U	0.00049 U	0.000345 U
PCB-189	ng/L	E1668A	0.00361 J	0.00205 J	0.00175 J	0.00503 J	0.00296 J
PCB-190	ng/L	E1668A	0.0139	0.0116	0.00633 J	0.0257	0.0129
PCB-191	ng/L	E1668A	0.00426 J	0.00174 J	0.00127 J	0.00636 J	0.00255 J
PCB-192	ng/L	E1668A	0.000986 U	0.000857 U	0.00125 U	0.00104 U	0.000541 U
PCB-194	ng/L	E1668A	0.0367	0.0245	0.014 J	0.0549	0.0266
PCB-195	ng/L	E1668A	0.015	0.0102	0.00621 J	0.0222	0.0108
PCB-196	ng/L	E1668A	0.0197	0.013	0.00784 J	0.0302	0.0149
PCB-197	ng/L	E1668A	0.00682 J	0.000697 U	0.000874 U	0.00431 J	0.00169 J
PCB-198/199	ng/L	E1668A	0.0441	0.0289	0.0198 J	0.0689	0.0347
PCB-200	ng/L	E1668A	0.00477 J	0.0007 U	0.000877 U	0.00764 J	0.00414 J
PCB-201	ng/L	E1668A	0.00849 J	0.0048 J	0.00284 J	0.0096 J	0.00505 J
PCB-202	ng/L	E1668A	0.0167	0.00914 J	0.00458 J	0.0167	0.00868 J
PCB-203	ng/L	E1668A	0.0236	0.0146 J	0.00863 J	0.0356	0.0187
PCB-204	ng/L	E1668A	0.000855 U	0.000732 U	0.000917 U	0.000825 U	0.000475 U
PCB-205	ng/L	E1668A	0.00303 J	0.00132 U	0.00135 U	0.00301 J	0.00139 J
PCB-206	ng/L	E1668A	0.0605	0.0249	0.0123	0.0383	0.0175
PCB-207	ng/L	E1668A	0.0491	0.0192	0.00792 J	0.0211	0.00813 J
PCB-208	ng/L	E1668A	0.0534	0.0205	0.00841 J	0.0259	0.00981 J
PCB-209	ng/L	E1668A	1.37	0.58	0.223	0.545	0.249
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		0.04746 J	0.032465 J	0.02971 J	0.04211 J	0.07277 J
Total Monochlorobiphenyl homologs (U = 0)	ng/L		0.04746 J	0.03182 J	0.02971 J	0.04143 J	0.07277 J

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID			PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
	Sample ID			PB020-1SWMID-140313-N	PB031.1-1SWMID-140313-N	PB047.3-1SWMID-140313-N	PB056_C-1SWMID-140313-N	PB070_B-1SWMID-140314-N
	Sample Date			03/13/2014	03/13/2014	03/13/2014	03/13/2014	03/14/2014
	Sample Type			N	N	N	N	N
	X			3201304.60061	3201398.81385	3201688.0477	3201506.28651	3201105.66718
	Y			13835636.4127	13834597.3501	13832857.2637	13832189.4532	13830874.0613
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L			0.5404515 J	0.46527 J	0.2586 J	0.733305 J	1.372455 J
Total Dichlorobiphenyl homologs (U = 0)	ng/L			0.52402 J	0.4521 J	0.24697 J	0.71629 J	1.35442 J
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L			5.61608 J	4.691955 J	2.02357 J	10.447145 J	16.689725 J
Total Trichlorobiphenyl homologs (U = 0)	ng/L			5.61215 J	4.68817 J	2.02038 J	10.4458 J	16.68828 J
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L			14.69123 J	11.080615 J	5.52603 J	32.4811405 J	33.44643 J
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L			14.68804 J	11.07805 J	5.52251 J	32.47769 J	33.44516 J
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L			6.5138025 J	4.7439905 J	2.5563815 J	14.952024	12.7381525 J
Total Pentachlorobiphenyl homologs (U = 0)	ng/L			6.50678 J	4.73748 J	2.54763 J	14.9439	12.73526 J
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L			2.1039805 J	1.421517 J	0.8225515 J	3.78232 J	2.4424415 J
Total Hexachlorobiphenyl homologs (U = 0)	ng/L			2.10092 J	1.41729 J	0.81773 J	3.77906 J	2.441236 J
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L			0.673569 J	0.4613805 J	0.280138 J	1.0837115 J	0.566197 J
Total Heptachlorobiphenyl homologs (U = 0)	ng/L			0.67104 J	0.45921 J	0.27637 J	1.0818 J	0.56505 J
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L			0.1793375 J	0.1068645 J	0.065909 J	0.2534725 J	0.1268875 J
Total Octachlorobiphenyl homologs (U = 0)	ng/L			0.17891 J	0.10514 J	0.0639 J	0.25306 J	0.12665 J
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L			0.163	0.0646	0.02863 J	0.0853	0.03544 J
Total Nonachlorobiphenyl homologs (U = 0)	ng/L			0.163	0.0646	0.02863 J	0.0853	0.03544 J
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L			1.37	0.58	0.223	0.545	0.249
Total Decachlorobiphenyl homologs (U = 0)	ng/L			1.37	0.58	0.223	0.545	0.249
Total PCB Congener (U = 1/2)	ng/L			31.898911 J	23.6486575 J	11.81452 J	64.4055285 J	67.7394985 J
Total PCB Congener (U = 0)	ng/L			31.86232 J	23.61386 J	11.77683 J	64.36933 J	67.713266 J
<b>PCB Congeners, Dissolved (ng/L)</b>								
PCB-001	ng/L	E1668A		--	--	--	0.0264	--
PCB-002	ng/L	E1668A		--	--	--	0.00121 U	--
PCB-003	ng/L	E1668A		--	--	--	0.00496 J	--
PCB-004	ng/L	E1668A		--	--	--	0.17	--
PCB-005	ng/L	E1668A		--	--	--	0.00199 U	--
PCB-006	ng/L	E1668A		--	--	--	0.0337	--
PCB-007	ng/L	E1668A		--	--	--	0.00183 U	--
PCB-008	ng/L	E1668A		--	--	--	0.136	--
PCB-009	ng/L	E1668A		--	--	--	0.0021 U	--
PCB-010	ng/L	E1668A		--	--	--	0.00743 J	--
PCB-011	ng/L	E1668A		--	--	--	0.0243 U	--
PCB-012/013	ng/L	E1668A		--	--	--	0.0116 J	--
PCB-014	ng/L	E1668A		--	--	--	0.00166 U	--
PCB-015	ng/L	E1668A		--	--	--	0.08	--
PCB-016	ng/L	E1668A		--	--	--	0.34	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
Sample Date	Sample Type	X	Y				
PCB-017	ng/L	E1668A	--	--	--	0.321	--
PCB-018/030	ng/L	E1668A	--	--	--	0.995	--
PCB-019	ng/L	E1668A	--	--	--	0.0967	--
PCB-020/028	ng/L	E1668A	--	--	--	0.818	--
PCB-021/033	ng/L	E1668A	--	--	--	0.277	--
PCB-022	ng/L	E1668A	--	--	--	0.239	--
PCB-023	ng/L	E1668A	--	--	--	0.00161 U	--
PCB-024	ng/L	E1668A	--	--	--	0.00573 J	--
PCB-025	ng/L	E1668A	--	--	--	0.0533	--
PCB-026/029	ng/L	E1668A	--	--	--	0.136	--
PCB-027	ng/L	E1668A	--	--	--	0.0555	--
PCB-031	ng/L	E1668A	--	--	--	0.894	--
PCB-032	ng/L	E1668A	--	--	--	0.275	--
PCB-034	ng/L	E1668A	--	--	--	0.00365 J	--
PCB-035	ng/L	E1668A	--	--	--	0.0123	--
PCB-036	ng/L	E1668A	--	--	--	0.00155 U	--
PCB-037	ng/L	E1668A	--	--	--	0.137	--
PCB-038	ng/L	E1668A	--	--	--	0.00165 U	--
PCB-039	ng/L	E1668A	--	--	--	0.00149 U	--
PCB-040/071	ng/L	E1668A	--	--	--	0.51	--
PCB-041	ng/L	E1668A	--	--	--	0.0932	--
PCB-042	ng/L	E1668A	--	--	--	0.285	--
PCB-043	ng/L	E1668A	--	--	--	0.047	--
PCB-044/047/065	ng/L	E1668A	--	--	--	1.17	--
PCB-045	ng/L	E1668A	--	--	--	0.227	--
PCB-046	ng/L	E1668A	--	--	--	0.0833	--
PCB-048	ng/L	E1668A	--	--	--	0.242	--
PCB-049/069	ng/L	E1668A	--	--	--	0.697	--
PCB-050/053	ng/L	E1668A	--	--	--	0.238	--
PCB-051	ng/L	E1668A	--	--	--	0.0584	--
PCB-052	ng/L	E1668A	--	--	--	1.49	--
PCB-054	ng/L	E1668A	--	--	--	0.00383 J	--
PCB-055	ng/L	E1668A	--	--	--	0.00163 U	--
PCB-056	ng/L	E1668A	--	--	--	0.35	--
PCB-057	ng/L	E1668A	--	--	--	0.00332 J	--
PCB-058	ng/L	E1668A	--	--	--	0.00153 U	--



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
Sample Date	Sample Type	X	Y				
PCB-059/062/075	ng/L	E1668A	--	--	--	<b>0.0843</b>	--
PCB-060	ng/L	E1668A	--	--	--	<b>0.168</b>	--
PCB-061/070/074/076	ng/L	E1668A	--	--	--	<b>1.33</b>	--
PCB-063	ng/L	E1668A	--	--	--	<b>0.0271</b>	--
PCB-064	ng/L	E1668A	--	--	--	<b>0.461</b>	--
PCB-066	ng/L	E1668A	--	--	--	<b>0.729</b>	--
PCB-067	ng/L	E1668A	--	--	--	<b>0.0185</b>	--
PCB-068	ng/L	E1668A	--	--	--	<b>0.0167</b>	--
PCB-072	ng/L	E1668A	--	--	--	<b>0.00459 J</b>	--
PCB-073	ng/L	E1668A	--	--	--	0.000899 U	--
PCB-077	ng/L	E1668A	--	--	--	<b>0.0466</b>	--
PCB-078	ng/L	E1668A	--	--	--	0.00169 U	--
PCB-079	ng/L	E1668A	--	--	--	0.00142 U	--
PCB-080	ng/L	E1668A	--	--	--	0.00136 U	--
PCB-081	ng/L	E1668A	--	--	--	0.00167 U	--
PCB-082	ng/L	E1668A	--	--	--	<b>0.0562</b>	--
PCB-083	ng/L	E1668A	--	--	--	<b>0.0202 J</b>	--
PCB-084	ng/L	E1668A	--	--	--	<b>0.125</b>	--
PCB-085/116	ng/L	E1668A	--	--	--	<b>0.0756</b>	--
PCB-086/087/097/108/119/125	ng/L	E1668A	--	--	--	<b>0.247</b>	--
PCB-088	ng/L	E1668A	--	--	--	0.00149 U	--
PCB-089	ng/L	E1668A	--	--	--	<b>0.013</b>	--
PCB-090/101/113	ng/L	E1668A	--	--	--	<b>0.295</b>	--
PCB-091	ng/L	E1668A	--	--	--	<b>0.0707</b>	--
PCB-092	ng/L	E1668A	--	--	--	<b>0.0551</b>	--
PCB-093/100	ng/L	E1668A	--	--	--	<b>0.00566 J</b>	--
PCB-094	ng/L	E1668A	--	--	--	0.00158 U	--
PCB-095	ng/L	E1668A	--	--	--	<b>0.292</b>	--
PCB-096	ng/L	E1668A	--	--	--	<b>0.00895 J</b>	--
PCB-098	ng/L	E1668A	--	--	--	0.00148 U	--
PCB-099	ng/L	E1668A	--	--	--	<b>0.164</b>	--
PCB-102	ng/L	E1668A	--	--	--	<b>0.0238</b>	--
PCB-103	ng/L	E1668A	--	--	--	0.00133 U	--
PCB-104	ng/L	E1668A	--	--	--	0.000576 U	--
PCB-105	ng/L	E1668A	--	--	--	<b>0.11</b>	--
PCB-106	ng/L	E1668A	--	--	--	0.00117 U	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
Sample Date	Sample Type	X	Y				
PCB-107/124	ng/L	E1668A	--	--	--	<b>0.00947 J</b>	--
PCB-109	ng/L	E1668A	--	--	--	<b>0.0167</b>	--
PCB-110	ng/L	E1668A	--	--	--	<b>0.357</b>	--
PCB-111	ng/L	E1668A	--	--	--	0.00105 U	--
PCB-112	ng/L	E1668A	--	--	--	0.00109 U	--
PCB-114	ng/L	E1668A	--	--	--	<b>0.0067 J</b>	--
PCB-115	ng/L	E1668A	--	--	--	0.00113 U	--
PCB-117	ng/L	E1668A	--	--	--	<b>0.00651 J</b>	--
PCB-118	ng/L	E1668A	--	--	--	<b>0.199</b>	--
PCB-120	ng/L	E1668A	--	--	--	0.00103 U	--
PCB-121	ng/L	E1668A	--	--	--	0.00104 U	--
PCB-122	ng/L	E1668A	--	--	--	<b>0.00532 J</b>	--
PCB-123	ng/L	E1668A	--	--	--	<b>0.00535 J</b>	--
PCB-126	ng/L	E1668A	--	--	--	0.000899 U	--
PCB-127	ng/L	E1668A	--	--	--	0.00123 U	--
PCB-128/166	ng/L	E1668A	--	--	--	<b>0.0135 J</b>	--
PCB-129/138/163	ng/L	E1668A	--	--	--	<b>0.0874</b>	--
PCB-130	ng/L	E1668A	--	--	--	<b>0.00686 J</b>	--
PCB-131	ng/L	E1668A	--	--	--	0.000881 U	--
PCB-132	ng/L	E1668A	--	--	--	<b>0.0302</b>	--
PCB-133	ng/L	E1668A	--	--	--	0.000801 U	--
PCB-134	ng/L	E1668A	--	--	--	<b>0.00583 J</b>	--
PCB-135/151	ng/L	E1668A	--	--	--	<b>0.0265</b>	--
PCB-136	ng/L	E1668A	--	--	--	<b>0.0113 J</b>	--
PCB-137	ng/L	E1668A	--	--	--	<b>0.00429 J</b>	--
PCB-139/140	ng/L	E1668A	--	--	--	0.000748 U	--
PCB-141	ng/L	E1668A	--	--	--	<b>0.0146</b>	--
PCB-142	ng/L	E1668A	--	--	--	0.000901 U	--
PCB-143	ng/L	E1668A	--	--	--	0.00076 U	--
PCB-144	ng/L	E1668A	--	--	--	<b>0.00396 J</b>	--
PCB-145	ng/L	E1668A	--	--	--	0.000538 U	--
PCB-146	ng/L	E1668A	--	--	--	<b>0.0119</b>	--
PCB-147/149	ng/L	E1668A	--	--	--	<b>0.0634</b>	--
PCB-148	ng/L	E1668A	--	--	--	0.00074 U	--
PCB-150	ng/L	E1668A	--	--	--	0.000499 U	--
PCB-152	ng/L	E1668A	--	--	--	0.000513 U	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>	Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	
	Location ID	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403	
	Sample ID	PB020-1SWMID-140313-N	PB031.1-1SWMID-140313-N	PB047.3-1SWMID-140313-N	PB056_C-1SWMID-140313-N	PB070_B-1SWMID-140314-N	
	Sample Date	03/13/2014	03/13/2014	03/13/2014	03/13/2014	03/14/2014	
	Sample Type	N	N	N	N	N	
	X	3201304.60061	3201398.81385	3201688.0477	3201506.28651	3201105.66718	
	Y	13835636.4127	13834597.3501	13832857.2637	13832189.4532	13830874.0613	
PCB-153/168	ng/L	E1668A	--	--	--	<b>0.0597</b>	--
PCB-154	ng/L	E1668A	--	--	--	0.000662 U	--
PCB-155	ng/L	E1668A	--	--	--	0.000443 U	--
PCB-156/157	ng/L	E1668A	--	--	--	<b>0.00976 J</b>	--
PCB-158	ng/L	E1668A	--	--	--	<b>0.00956 J</b>	--
PCB-159	ng/L	E1668A	--	--	--	0.000672 U	--
PCB-160	ng/L	E1668A	--	--	--	0.000656 U	--
PCB-161	ng/L	E1668A	--	--	--	0.000584 U	--
PCB-162	ng/L	E1668A	--	--	--	0.000675 U	--
PCB-164	ng/L	E1668A	--	--	--	<b>0.00638 J</b>	--
PCB-165	ng/L	E1668A	--	--	--	0.00063 U	--
PCB-167	ng/L	E1668A	--	--	--	<b>0.00306 J</b>	--
PCB-169	ng/L	E1668A	--	--	--	0.000701 U	--
PCB-170	ng/L	E1668A	--	--	--	<b>0.0114</b>	--
PCB-171/173	ng/L	E1668A	--	--	--	<b>0.00492 J</b>	--
PCB-172	ng/L	E1668A	--	--	--	0.00119 U	--
PCB-174	ng/L	E1668A	--	--	--	<b>0.0104 J</b>	--
PCB-175	ng/L	E1668A	--	--	--	0.00108 U	--
PCB-176	ng/L	E1668A	--	--	--	<b>0.00166 J</b>	--
PCB-177	ng/L	E1668A	--	--	--	<b>0.0076 J</b>	--
PCB-178	ng/L	E1668A	--	--	--	<b>0.0029 J</b>	--
PCB-179	ng/L	E1668A	--	--	--	<b>0.00581 J</b>	--
PCB-180/193	ng/L	E1668A	--	--	--	<b>0.0223</b>	--
PCB-181	ng/L	E1668A	--	--	--	0.00109 U	--
PCB-182	ng/L	E1668A	--	--	--	0.000985 U	--
PCB-183	ng/L	E1668A	--	--	--	<b>0.0065 J</b>	--
PCB-184	ng/L	E1668A	--	--	--	0.000673 U	--
PCB-185	ng/L	E1668A	--	--	--	0.00112 U	--
PCB-186	ng/L	E1668A	--	--	--	0.00065 U	--
PCB-187	ng/L	E1668A	--	--	--	<b>0.013 J</b>	--
PCB-188	ng/L	E1668A	--	--	--	0.000553 U	--
PCB-189	ng/L	E1668A	--	--	--	0.000874 U	--
PCB-190	ng/L	E1668A	--	--	--	<b>0.00206 J</b>	--
PCB-191	ng/L	E1668A	--	--	--	0.000872 U	--
PCB-192	ng/L	E1668A	--	--	--	0.000917 U	--
PCB-194	ng/L	E1668A	--	--	--	<b>0.00371 J</b>	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB020_201403	PB031.1_201403	PB047.3_201403	PB056_C_201403	PB070_B_201403
Sample Date	Sample Type	X	Y				
PCB-195	ng/L	E1668A	--	--	--	0.00152 U	--
PCB-196	ng/L	E1668A	--	--	--	<b>0.00278 J</b>	--
PCB-197	ng/L	E1668A	--	--	--	0.000859 U	--
PCB-198/199	ng/L	E1668A	--	--	--	<b>0.0061 J</b>	--
PCB-200	ng/L	E1668A	--	--	--	0.000862 U	--
PCB-201	ng/L	E1668A	--	--	--	0.000838 U	--
PCB-202	ng/L	E1668A	--	--	--	<b>0.00174 J</b>	--
PCB-203	ng/L	E1668A	--	--	--	<b>0.00289 J</b>	--
PCB-204	ng/L	E1668A	--	--	--	0.000901 U	--
PCB-205	ng/L	E1668A	--	--	--	0.00108 U	--
PCB-206	ng/L	E1668A	--	--	--	<b>0.006 J</b>	--
PCB-207	ng/L	E1668A	--	--	--	<b>0.00301 J</b>	--
PCB-208	ng/L	E1668A	--	--	--	<b>0.00293 J</b>	--
PCB-209	ng/L	E1668A	--	--	--	<b>0.065</b>	--
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.031965 J</b>	--
Total Monochlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.03136 J</b>	--
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.45467 J</b>	--
Total Dichlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.43873 J</b>	--
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>4.66233 J</b>	--
Total Trichlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>4.65918 J</b>	--
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>8.3889395 J</b>	--
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>8.38384 J</b>	--
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>2.1758075 J</b>	--
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>2.16826 J</b>	--
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.373902 J</b>	--
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.3682 J</b>	--
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.093552 J</b>	--
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.08855 J</b>	--
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.02025 J</b>	--
Total Octachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.01722 J</b>	--
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.01194 J</b>	--
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.01194 J</b>	--
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	<b>0.065</b>	--
Total Decachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	<b>0.065</b>	--
Total PCB Congener (U = 1/2)	ng/L		--	--	--	<b>16.278356 J</b>	--
Total PCB Congener (U = 0)	ng/L		--	--	--	<b>16.23228 J</b>	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID			PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403	
Sample ID			PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D	
Sample Date			03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014	
Sample Type			N	N	N	N	FD	
X			3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221	
Y			13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659	
<b>Conventional Parameters (mg/L)</b>								
Total suspended solids	mg/L	SM2540D	18 J	18 J	8 J	11 J	25 U	
Dissolved organic carbon	mg/L	SW9060	--	--	26.3	--	--	
Total organic carbon	mg/L	SW9060	9.99	13.7	16.2	13.8	10.2	
<b>PCB Congeners (ng/L)</b>								
PCB-001	ng/L	E1668A	0.0701	0.0498	0.0387	0.0262	0.0214	
PCB-002	ng/L	E1668A	0.00182 U	0.00336 J	0.00314 J	0.00172 J	0.00149 J	
PCB-003	ng/L	E1668A	0.00895 J	0.0081 J	0.00517 J	0.00318 U	0.00496 U	
PCB-004	ng/L	E1668A	0.521	0.3	0.245	0.155	0.145	
PCB-005	ng/L	E1668A	0.00767 J	0.00305 J	0.00244 J	0.00216 J	0.00183 J	
PCB-006	ng/L	E1668A	0.0982	0.0691	0.0637	0.0551	0.0458	
PCB-007	ng/L	E1668A	0.0109	0.00581 J	0.00372 J	0.00319 J	0.00316 J	
PCB-008	ng/L	E1668A	0.399	0.177	0.107	0.101	0.101	
PCB-009	ng/L	E1668A	0.0293	0.012	0.0084 J	0.00772 J	0.00687 J	
PCB-010	ng/L	E1668A	0.0221	0.0116	0.0095 J	0.0054 J	0.00461 J	
PCB-011	ng/L	E1668A	0.0363 U	0.0281 U	0.029 U	0.0204 U	0.0212 U	
PCB-012/013	ng/L	E1668A	0.0328	0.0231	0.0218	0.0158 J	0.0138 J	
PCB-014	ng/L	E1668A	0.00246 U	0.00105 U	0.00117 U	0.000319 U	0.000356 U	
PCB-015	ng/L	E1668A	0.268	0.116	0.086	0.0538	0.0524	
PCB-016	ng/L	E1668A	1.18	0.585	0.47	0.233	0.181	
PCB-017	ng/L	E1668A	1.1	0.564	0.482	0.236	0.184	
PCB-018/030	ng/L	E1668A	3.41	1.66	1.34	0.686	0.522	
PCB-019	ng/L	E1668A	0.356	0.192	0.187	0.104	0.0797	
PCB-020/028	ng/L	E1668A	3.01	1.18	0.839	0.63	0.482	
PCB-021/033	ng/L	E1668A	0.893	0.32	0.181	0.152	0.137	
PCB-022	ng/L	E1668A	0.832	0.318	0.202	0.165	0.135	
PCB-023	ng/L	E1668A	0.00294 U	0.00114 U	0.000973 U	0.00104 U	0.000664 U	
PCB-024	ng/L	E1668A	0.0226	0.0091 J	0.00741 J	0.00439 J	0.0028 J	
PCB-025	ng/L	E1668A	0.183	0.105	0.0949	0.0879	0.0636	
PCB-026/029	ng/L	E1668A	0.471	0.198	0.15	0.122	0.0915	
PCB-027	ng/L	E1668A	0.191	0.102	0.0915	0.0424	0.0315	
PCB-031	ng/L	E1668A	3.11	1.16	0.782	0.625	0.483	
PCB-032	ng/L	E1668A	1.02	0.543	0.508	0.227	0.17	
PCB-034	ng/L	E1668A	0.00981 J	0.00508 J	0.00373 J	0.00332 J	0.00248 J	
PCB-035	ng/L	E1668A	0.0405	0.0168	0.0125	0.00823 J	0.00721 J	
PCB-036	ng/L	E1668A	0.00284 U	0.0011 U	0.000942 U	0.000997 U	0.000637 U	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
				PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
				03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
				N	N	N	N	FD
			X	3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
			Y	13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
PCB-037	ng/L	E1668A		0.534	0.203	0.13	0.0872	0.0776
PCB-038	ng/L	E1668A		0.00703 J	0.00295 J	0.00102 U	0.00108 U	0.000797 J
PCB-039	ng/L	E1668A		0.0291	0.0099 J	0.00813 J	0.00514 J	0.00453 J
PCB-040/071	ng/L	E1668A		2.15	0.874	0.742	0.438	0.33
PCB-041	ng/L	E1668A		0.444	0.144	0.115	0.0576	0.0516
PCB-042	ng/L	E1668A		1.23	0.49	0.409	0.245	0.184
PCB-043	ng/L	E1668A		0.188	0.072	0.0604	0.0381	0.0282
PCB-044/047/065	ng/L	E1668A		4.87	1.93	1.6	0.982	0.737
PCB-045	ng/L	E1668A		0.979	0.37	0.315	0.197	0.144
PCB-046	ng/L	E1668A		0.373	0.143	0.123	0.0788	0.0625
PCB-048	ng/L	E1668A		1	0.367	0.301	0.172	0.131
PCB-049/069	ng/L	E1668A		2.85	1.11	0.933	0.581	0.425
PCB-050/053	ng/L	E1668A		0.945	0.351	0.306	0.214	0.159
PCB-051	ng/L	E1668A		0.198	0.0823	0.082	0.0645	0.062
PCB-052	ng/L	E1668A		5.85	2.26	1.88	1.18	0.875
PCB-054	ng/L	E1668A		0.0154	0.0081 J	0.00725 J	0.00365 J	0.0032 J
PCB-055	ng/L	E1668A		0.0341	0.0126	0.00828 J	0.00649 J	0.00547 J
PCB-056	ng/L	E1668A		1.76	0.697	0.539	0.298	0.237
PCB-057	ng/L	E1668A		0.0147	0.00556 J	0.00415 J	0.00287 J	0.00238 J
PCB-058	ng/L	E1668A		0.00723 J	0.00314 J	0.00173 J	0.000649 U	0.00112 J
PCB-059/062/075	ng/L	E1668A		0.362	0.14	0.113	0.0719	0.0523
PCB-060	ng/L	E1668A		0.79	0.299	0.205	0.13	0.105
PCB-061/070/074/076	ng/L	E1668A		6.05	2.35	1.8	1.02	0.774
PCB-063	ng/L	E1668A		0.12	0.0474	0.0357	0.0228	0.0172
PCB-064	ng/L	E1668A		1.94	0.752	0.594	0.368	0.277
PCB-066	ng/L	E1668A		3.67	1.42	1.12	0.629	0.482
PCB-067	ng/L	E1668A		0.0795	0.0292	0.0234	0.0139	0.0113
PCB-068	ng/L	E1668A		0.0277	0.0256	0.0318	0.0307	0.0271
PCB-072	ng/L	E1668A		0.0208	0.00843 J	0.00631 J	0.00439 J	0.00323 J
PCB-073	ng/L	E1668A		0.0102 J	0.00414 J	0.00348 J	0.00228 J	0.00171 J
PCB-077	ng/L	E1668A		0.268	0.101	0.0801	0.0462	0.0377
PCB-078	ng/L	E1668A		0.00352 U	0.00104 U	0.00116 U	0.000721 U	0.000762 U
PCB-079	ng/L	E1668A		0.0268	0.000834 U	0.0054 J	0.00453 J	0.00307 J
PCB-080	ng/L	E1668A		0.00286 U	0.000841 U	0.000944 U	0.0006 U	0.000635 U
PCB-081	ng/L	E1668A		0.0132	0.00433 J	0.00281 J	0.00196 J	0.00168 J
PCB-082	ng/L	E1668A		0.426	0.17	0.142	0.0717	0.0542

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
Sample Date	Sample Type	X	Y				
PCB-083	ng/L	E1668A	0.129	0.053	0.0414	0.0212	0.0188
PCB-084	ng/L	E1668A	0.781	0.311	0.267	0.14	0.11
PCB-085/116	ng/L	E1668A	0.492	0.203	0.163	0.104	0.0739
PCB-086/087/097/108/119/125	ng/L	E1668A	1.6	0.63	0.506	0.283	0.218
PCB-088	ng/L	E1668A	0.0158	0.00108 U	0.00105 U	0.00451 J	0.000733 U
PCB-089	ng/L	E1668A	0.0833	0.0313	0.0274	0.0141	0.0105
PCB-090/101/113	ng/L	E1668A	1.75	0.695	0.559	0.322	0.241
PCB-091	ng/L	E1668A	0.41	0.169	0.143	0.0718	0.0559
PCB-092	ng/L	E1668A	0.331	0.134	0.11	0.062	0.0468
PCB-093/100	ng/L	E1668A	0.0393	0.0132 J	0.0111 J	0.00739 J	0.00505 J
PCB-094	ng/L	E1668A	0.0256	0.00994 J	0.00882 J	0.0045 J	0.00365 J
PCB-095	ng/L	E1668A	1.67	0.655	0.533	0.294	0.227
PCB-096	ng/L	E1668A	0.0533	0.0238	0.02	0.01	0.00749 J
PCB-098	ng/L	E1668A	0.00461 J	0.00209 J	0.00114 U	0.00058 U	0.00145 J
PCB-099	ng/L	E1668A	1.14	0.447	0.361	0.21	0.149
PCB-102	ng/L	E1668A	0.114	0.0473	0.0415	0.022	0.0156
PCB-103	ng/L	E1668A	0.0166	0.00678 J	0.00535 J	0.00322 J	0.00285 J
PCB-104	ng/L	E1668A	0.000986 U	0.000379 U	0.000405 U	0.000163 U	0.000208 U
PCB-105	ng/L	E1668A	0.804	0.32	0.25	0.143	0.108
PCB-106	ng/L	E1668A	0.00341 J	0.00141 J	0.00103 J	0.00111 J	0.000823 J
PCB-107/124	ng/L	E1668A	0.0719	0.0264	0.0216	0.0118 J	0.009 J
PCB-109	ng/L	E1668A	0.118	0.0462	0.0364	0.0218	0.0161
PCB-110	ng/L	E1668A	2.16	0.86	0.702	0.396	0.305
PCB-111	ng/L	E1668A	0.00269 U	0.000713 U	0.000689 U	0.000354 U	0.000472 U
PCB-112	ng/L	E1668A	0.00857 J	0.00201 J	0.00163 J	0.000366 U	0.000984 J
PCB-114	ng/L	E1668A	0.0485	0.0181	0.0134	0.00876	0.00649 J
PCB-115	ng/L	E1668A	0.0753	0.0301	0.0165	0.0106	0.00947
PCB-117	ng/L	E1668A	0.066	0.0262	0.0203	0.00884	0.00819 J
PCB-118	ng/L	E1668A	1.41	0.571	0.445	0.258	0.191
PCB-120	ng/L	E1668A	0.00265 U	0.000702 U	0.000678 U	0.000517 J	0.000555 J
PCB-121	ng/L	E1668A	0.00266 U	0.000704 U	0.000681 U	0.000357 U	0.000476 U
PCB-122	ng/L	E1668A	0.0354	0.0142	0.011	0.00612 J	0.00431 J
PCB-123	ng/L	E1668A	0.0431	0.0167	0.0137	0.00708 J	0.00563 J
PCB-126	ng/L	E1668A	0.00833 J	0.0031 J	0.00212 J	0.00149 J	0.00108 J
PCB-127	ng/L	E1668A	0.00281 U	0.000744 U	0.000774 U	0.000393 U	0.000489 U
PCB-128/166	ng/L	E1668A	0.12	0.0489	0.0357	0.0227	0.0171

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
Sample Date	Sample Type	X	Y				
PCB-129/138/163	ng/L	E1668A	0.682	0.29	0.219	0.138	0.104
PCB-130	ng/L	E1668A	0.0481	0.0211	0.016	0.0102	0.00757 J
PCB-131	ng/L	E1668A	0.0117	0.00463 J	0.00418 J	0.00246 J	0.0021 J
PCB-132	ng/L	E1668A	0.243	0.101	0.0801	0.046	0.0365
PCB-133	ng/L	E1668A	0.00904 J	0.00374 J	0.00254 J	0.00166 J	0.00132 J
PCB-134	ng/L	E1668A	0.0434	0.0193	0.0162	0.00784 J	0.00551 J
PCB-135/151	ng/L	E1668A	0.177	0.0742	0.0581	0.0355	0.0284
PCB-136	ng/L	E1668A	0.0841	0.0367	0.0288	0.0174	0.0131
PCB-137	ng/L	E1668A	0.0393	0.0145	0.013	0.00757 J	0.00575 J
PCB-139/140	ng/L	E1668A	0.0157 J	0.0064 J	0.00534 J	0.00284 J	0.00224 J
PCB-141	ng/L	E1668A	0.111	0.0457	0.0356	0.0223	0.017
PCB-142	ng/L	E1668A	0.00177 U	0.000513 U	0.000578 U	0.000262 U	0.000289 U
PCB-143	ng/L	E1668A	0.00491 J	0.00147 J	0.00113 J	0.000667 J	0.000367 J
PCB-144	ng/L	E1668A	0.028	0.0128	0.00907 J	0.00574 J	0.00467 J
PCB-145	ng/L	E1668A	0.001 U	0.000327 U	0.000333 U	0.00015 U	0.000184 U
PCB-146	ng/L	E1668A	0.0805	0.0347	0.0272	0.0178	0.0139
PCB-147/149	ng/L	E1668A	0.44	0.188	0.144	0.0909	0.0702
PCB-148	ng/L	E1668A	0.00146 U	0.000422 U	0.000476 U	0.000217 U	0.000239 U
PCB-150	ng/L	E1668A	0.00094 U	0.000557 J	0.000423 J	0.000236 J	0.000275 J
PCB-152	ng/L	E1668A	0.000953 U	0.000801 J	0.000546 J	0.000364 J	0.000228 J
PCB-153/168	ng/L	E1668A	0.416	0.179	0.133	0.0875	0.0686
PCB-154	ng/L	E1668A	0.00778 J	0.00293 J	0.00218 J	0.00119 J	0.00103 J
PCB-155	ng/L	E1668A	0.000836 U	0.000433 J	0.00044 J	0.000294 J	0.000273 J
PCB-156/157	ng/L	E1668A	0.0813	0.0309	0.0237	0.0158 J	0.0115 J
PCB-158	ng/L	E1668A	0.0662	0.0289	0.0225	0.0141	0.0104
PCB-159	ng/L	E1668A	0.00439 J	0.0021 J	0.000963 J	0.000933 J	0.000677 J
PCB-160	ng/L	E1668A	0.00126 U	0.000364 U	0.000411 U	0.000179 U	0.000197 U
PCB-161	ng/L	E1668A	0.00115 U	0.000335 U	0.000378 U	0.000169 U	0.000186 U
PCB-162	ng/L	E1668A	0.00251 J	0.0013 J	0.000722 J	0.000525 J	0.000473 J
PCB-164	ng/L	E1668A	0.042	0.02	0.0139	0.00881	0.00663 J
PCB-165	ng/L	E1668A	0.00125 U	0.000363 U	0.000409 U	0.000184 U	0.000203 U
PCB-167	ng/L	E1668A	0.0225	0.00903 J	0.00715 J	0.00497 J	0.0035 J
PCB-169	ng/L	E1668A	0.0018 U	0.000533 U	0.000545 U	0.00028 U	0.000259 U
PCB-170	ng/L	E1668A	0.085	0.0342	0.0245	0.0195	0.0145
PCB-171/173	ng/L	E1668A	0.0281	0.0109 J	0.00858 J	0.0064 J	0.00432 J
PCB-172	ng/L	E1668A	0.0146	0.00601 J	0.00487 J	0.00343 J	0.00248 J



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
				PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
				03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
				N	N	N	N	FD
		X		3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
		Y		13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
PCB-174	ng/L	E1668A		0.0848	0.0365	0.025	0.0189	0.014
PCB-175	ng/L	E1668A		0.00398 J	0.00194 J	0.00123 J	0.00072 J	0.000662 J
PCB-176	ng/L	E1668A		0.0102 J	0.0049 J	0.00329 J	0.00241 J	0.00191 J
PCB-177	ng/L	E1668A		0.0501	0.0211	0.0144	0.0117	0.00843 J
PCB-178	ng/L	E1668A		0.0169	0.00784 J	0.00586 J	0.00363 J	0.00327 J
PCB-179	ng/L	E1668A		0.0368	0.0163	0.0114	0.00789 J	0.0067 J
PCB-180/193	ng/L	E1668A		0.16	0.0683	0.0474	0.0385	0.0286
PCB-181	ng/L	E1668A		0.00172 U	0.000629 U	0.000632 U	0.000459 J	0.000318 U
PCB-182	ng/L	E1668A		0.00154 U	0.000565 U	0.000568 U	0.000361 U	0.000289 U
PCB-183	ng/L	E1668A		0.0447	0.0199	0.0131	0.00977	0.00714 J
PCB-184	ng/L	E1668A		0.00109 U	0.000403 U	0.000455 U	0.000395 J	0.000498 J
PCB-185	ng/L	E1668A		0.00833 J	0.00312 J	0.00252 J	0.00207 J	0.00159 J
PCB-186	ng/L	E1668A		0.00105 U	0.000387 U	0.000436 U	0.000225 U	0.000186 U
PCB-187	ng/L	E1668A		0.099	0.0415	0.0303	0.021	0.0175
PCB-188	ng/L	E1668A		0.00088 U	0.000325 U	0.000367 U	0.00019 U	0.000157 U
PCB-189	ng/L	E1668A		0.00381 J	0.00156 J	0.00122 J	0.000937 J	0.00073 J
PCB-190	ng/L	E1668A		0.0158	0.00669 J	0.00448 J	0.00364 J	0.00273 J
PCB-191	ng/L	E1668A		0.00363 J	0.00144 J	0.00118 J	0.000781 J	0.000726 J
PCB-192	ng/L	E1668A		0.00145 U	0.000533 U	0.000536 U	0.00033 U	0.000264 U
PCB-194	ng/L	E1668A		0.033	0.0132	0.00906 J	0.00927	0.00609 J
PCB-195	ng/L	E1668A		0.014	0.00536 J	0.00357 J	0.00389 J	0.00223 J
PCB-196	ng/L	E1668A		0.017	0.00837 J	0.00597 J	0.00449 J	0.00265 J
PCB-197	ng/L	E1668A		0.00205 J	0.000781 J	0.000495 J	0.000458 J	0.000501 J
PCB-198/199	ng/L	E1668A		0.0446	0.0186 J	0.0134 J	0.0109 J	0.00782 J
PCB-200	ng/L	E1668A		0.00415 J	0.0022 J	0.00171 J	0.00108 J	0.00108 J
PCB-201	ng/L	E1668A		0.00592 J	0.00227 J	0.00189 J	0.00153 J	0.00109 J
PCB-202	ng/L	E1668A		0.0112	0.00471 J	0.00314 J	0.00197 J	0.00183 J
PCB-203	ng/L	E1668A		0.0235	0.0106	0.00704 J	0.00532 J	0.00423 J
PCB-204	ng/L	E1668A		0.00159 U	0.000452 U	0.000488 U	0.000252 U	0.000262 U
PCB-205	ng/L	E1668A		0.00237 U	0.000564 U	0.000589 U	0.000363 U	0.000346 U
PCB-206	ng/L	E1668A		0.024	0.00942 J	0.0063 J	0.00528 J	0.0047 J
PCB-207	ng/L	E1668A		0.0131	0.00431 J	0.00151 J	0.00264 J	0.00222 J
PCB-208	ng/L	E1668A		0.0126 J	0.00479 J	0.00244 J	0.00306 J	0.00233 J
PCB-209	ng/L	E1668A		0.332	0.121	0.054	0.0522	0.0452
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L			0.07996 J	0.06126 J	0.04701 J	0.02951 J	0.02537 J
Total Monochlorobiphenyl homologs (U = 0)	ng/L			0.07905 J	0.06126 J	0.04701 J	0.02792 J	0.02289 J

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID			PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
	Sample ID			PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
	Sample Date			03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
	Sample Type			N	N	N	N	FD
	X			3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
	Y			13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L			1.40835 J	0.732235 J	0.562645 J	0.4095295 J	0.385248 J
Total Dichlorobiphenyl homologs (U = 0)	ng/L			1.38897 J	0.71766 J	0.54756 J	0.39917 J	0.37447 J
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L			16.40193 J	7.17495 J	5.4906375 J	3.4201385 J	2.6563675 J
Total Trichlorobiphenyl homologs (U = 0)	ng/L			16.39904 J	7.17383 J	5.48917 J	3.41858 J	2.655717 J
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L			36.28982 J	14.1021575 J	11.448862 J	6.905655 J	5.2324585 J
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L			36.28663 J	14.1008 J	11.44781 J	6.90467 J	5.23176 J
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L			13.939918 J	5.538991 J	4.4769585 J	2.5216435 J	1.909011 J
Total Pentachlorobiphenyl homologs (U = 0)	ng/L			13.93402 J	5.53683 J	4.47425 J	2.520537 J	1.907822 J
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L			2.7866395 J	1.1805195 J	0.903049 J	0.5650195 J	0.4340915 J
Total Hexachlorobiphenyl homologs (U = 0)	ng/L			2.78043 J	1.179091 J	0.901484 J	0.564299 J	0.433313 J
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L			0.669615 J	0.283621 J	0.200827 J	0.152685 J	0.116393 J
Total Heptachlorobiphenyl homologs (U = 0)	ng/L			0.66575 J	0.2822 J	0.19933 J	0.152132 J	0.115786 J
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L			0.1574 J	0.066599 J	0.0468135 J	0.0392155 J	0.027825 J
Total Octachlorobiphenyl homologs (U = 0)	ng/L			0.15542 J	0.066091 J	0.046275 J	0.038908 J	0.027521 J
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L			0.0497 J	0.01852 J	0.01025 J	0.01098 J	0.00925 J
Total Nonachlorobiphenyl homologs (U = 0)	ng/L			0.0497 J	0.01852 J	0.01025 J	0.01098 J	0.00925 J
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L			0.332	0.121	0.054	0.0522	0.0452
Total Decachlorobiphenyl homologs (U = 0)	ng/L			0.332	0.121	0.054	0.0522	0.0452
Total PCB Congener (U = 1/2)	ng/L			72.1153325 J	29.279853 J	23.2410525 J	14.1065765 J	10.8412145 J
Total PCB Congener (U = 0)	ng/L			72.07101 J	29.257282 J	23.217139 J	14.089396 J	10.823729 J
<b>PCB Congeners, Dissolved (ng/L)</b>								
PCB-001	ng/L	E1668A	--	--	--	0.0388	--	--
PCB-002	ng/L	E1668A	--	--	--	0.00202 U	--	--
PCB-003	ng/L	E1668A	--	--	--	0.00552 J	--	--
PCB-004	ng/L	E1668A	--	--	--	0.213	--	--
PCB-005	ng/L	E1668A	--	--	--	0.00276 U	--	--
PCB-006	ng/L	E1668A	--	--	--	0.0623	--	--
PCB-007	ng/L	E1668A	--	--	--	0.00397 J	--	--
PCB-008	ng/L	E1668A	--	--	--	0.093	--	--
PCB-009	ng/L	E1668A	--	--	--	0.0083 J	--	--
PCB-010	ng/L	E1668A	--	--	--	0.00888 J	--	--
PCB-011	ng/L	E1668A	--	--	--	0.0345 U	--	--
PCB-012/013	ng/L	E1668A	--	--	--	0.0184 J	--	--
PCB-014	ng/L	E1668A	--	--	--	0.00232 U	--	--
PCB-015	ng/L	E1668A	--	--	--	0.0529	--	--
PCB-016	ng/L	E1668A	--	--	--	0.249	--	--



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
Sample ID	Sample Date	Sample Type	X	PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
Sample Date	Sample Type	X	Y	03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
Sample Type	X	Y		N	N	N	N	FD
X	Y			3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
Y				13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
PCB-059/062/075	ng/L	E1668A	--	--	--	0.0348	--	--
PCB-060	ng/L	E1668A	--	--	--	0.0501	--	--
PCB-061/070/074/076	ng/L	E1668A	--	--	--	0.408	--	--
PCB-063	ng/L	E1668A	--	--	--	0.00838 J	--	--
PCB-064	ng/L	E1668A	--	--	--	0.167	--	--
PCB-066	ng/L	E1668A	--	--	--	0.245	--	--
PCB-067	ng/L	E1668A	--	--	--	0.00569 J	--	--
PCB-068	ng/L	E1668A	--	--	--	0.0316	--	--
PCB-072	ng/L	E1668A	--	--	--	0.00118 U	--	--
PCB-073	ng/L	E1668A	--	--	--	0.00124 J	--	--
PCB-077	ng/L	E1668A	--	--	--	0.0159	--	--
PCB-078	ng/L	E1668A	--	--	--	0.00137 U	--	--
PCB-079	ng/L	E1668A	--	--	--	0.0011 U	--	--
PCB-080	ng/L	E1668A	--	--	--	0.00111 U	--	--
PCB-081	ng/L	E1668A	--	--	--	0.00136 U	--	--
PCB-082	ng/L	E1668A	--	--	--	0.0227	--	--
PCB-083	ng/L	E1668A	--	--	--	0.00818 J	--	--
PCB-084	ng/L	E1668A	--	--	--	0.0534	--	--
PCB-085/116	ng/L	E1668A	--	--	--	0.0268	--	--
PCB-086/087/097/108/119/125	ng/L	E1668A	--	--	--	0.0903	--	--
PCB-088	ng/L	E1668A	--	--	--	0.00176 U	--	--
PCB-089	ng/L	E1668A	--	--	--	0.00516 J	--	--
PCB-090/101/113	ng/L	E1668A	--	--	--	0.106	--	--
PCB-091	ng/L	E1668A	--	--	--	0.0266	--	--
PCB-092	ng/L	E1668A	--	--	--	0.0216	--	--
PCB-093/100	ng/L	E1668A	--	--	--	0.0016 U	--	--
PCB-094	ng/L	E1668A	--	--	--	0.00176 U	--	--
PCB-095	ng/L	E1668A	--	--	--	0.118	--	--
PCB-096	ng/L	E1668A	--	--	--	0.00421 J	--	--
PCB-098	ng/L	E1668A	--	--	--	0.00192 U	--	--
PCB-099	ng/L	E1668A	--	--	--	0.0646	--	--
PCB-102	ng/L	E1668A	--	--	--	0.00794 J	--	--
PCB-103	ng/L	E1668A	--	--	--	0.00148 U	--	--
PCB-104	ng/L	E1668A	--	--	--	0.000743 U	--	--
PCB-105	ng/L	E1668A	--	--	--	0.0401	--	--
PCB-106	ng/L	E1668A	--	--	--	0.0013 U	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID	Sample ID	Sample Date	Sample Type	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
Sample ID	Sample Date	Sample Type	X	PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
Sample Date	Sample Type	X	Y	03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
Sample Type	X	Y		N	N	N	N	FD
X	Y			3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
Y				13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
PCB-107/124	ng/L	E1668A	--	--	--	0.00385 J	--	--
PCB-109	ng/L	E1668A	--	--	--	0.0046 J	--	--
PCB-110	ng/L	E1668A	--	--	--	0.127	--	--
PCB-111	ng/L	E1668A	--	--	--	0.00116 U	--	--
PCB-112	ng/L	E1668A	--	--	--	0.00119 U	--	--
PCB-114	ng/L	E1668A	--	--	--	0.00222 J	--	--
PCB-115	ng/L	E1668A	--	--	--	0.00388 J	--	--
PCB-117	ng/L	E1668A	--	--	--	0.00337 J	--	--
PCB-118	ng/L	E1668A	--	--	--	0.0733	--	--
PCB-120	ng/L	E1668A	--	--	--	0.00114 U	--	--
PCB-121	ng/L	E1668A	--	--	--	0.00115 U	--	--
PCB-122	ng/L	E1668A	--	--	--	0.00135 U	--	--
PCB-123	ng/L	E1668A	--	--	--	0.00205 J	--	--
PCB-126	ng/L	E1668A	--	--	--	0.0012 U	--	--
PCB-127	ng/L	E1668A	--	--	--	0.00125 U	--	--
PCB-128/166	ng/L	E1668A	--	--	--	0.00565 J	--	--
PCB-129/138/163	ng/L	E1668A	--	--	--	0.0339	--	--
PCB-130	ng/L	E1668A	--	--	--	0.00296 J	--	--
PCB-131	ng/L	E1668A	--	--	--	0.000961 U	--	--
PCB-132	ng/L	E1668A	--	--	--	0.0123	--	--
PCB-133	ng/L	E1668A	--	--	--	0.000865 U	--	--
PCB-134	ng/L	E1668A	--	--	--	0.00238 J	--	--
PCB-135/151	ng/L	E1668A	--	--	--	0.0106 J	--	--
PCB-136	ng/L	E1668A	--	--	--	0.00552 J	--	--
PCB-137	ng/L	E1668A	--	--	--	0.0022 J	--	--
PCB-139/140	ng/L	E1668A	--	--	--	0.000813 U	--	--
PCB-141	ng/L	E1668A	--	--	--	0.00633 J	--	--
PCB-142	ng/L	E1668A	--	--	--	0.000975 U	--	--
PCB-143	ng/L	E1668A	--	--	--	0.000818 U	--	--
PCB-144	ng/L	E1668A	--	--	--	0.00189 J	--	--
PCB-145	ng/L	E1668A	--	--	--	0.000587 U	--	--
PCB-146	ng/L	E1668A	--	--	--	0.00528 J	--	--
PCB-147/149	ng/L	E1668A	--	--	--	0.0214 J	--	--
PCB-148	ng/L	E1668A	--	--	--	0.000804 U	--	--
PCB-150	ng/L	E1668A	--	--	--	0.000549 U	--	--
PCB-152	ng/L	E1668A	--	--	--	0.000557 U	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
			Location ID	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
			Sample ID	PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
			Sample Date	03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
			Sample Type	N	N	N	N	FD
			X	3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
			Y	13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
PCB-153/168	ng/L	E1668A	--	--	<b>0.0238</b>	--	--	
PCB-154	ng/L	E1668A	--	--	0.000724 U	--	--	
PCB-155	ng/L	E1668A	--	--	0.000489 U	--	--	
PCB-156/157	ng/L	E1668A	--	--	<b>0.00311 J</b>	--	--	
PCB-158	ng/L	E1668A	--	--	<b>0.0038 J</b>	--	--	
PCB-159	ng/L	E1668A	--	--	0.000759 U	--	--	
PCB-160	ng/L	E1668A	--	--	0.000693 U	--	--	
PCB-161	ng/L	E1668A	--	--	0.000637 U	--	--	
PCB-162	ng/L	E1668A	--	--	0.000765 U	--	--	
PCB-164	ng/L	E1668A	--	--	<b>0.00216 J</b>	--	--	
PCB-165	ng/L	E1668A	--	--	0.00069 U	--	--	
PCB-167	ng/L	E1668A	--	--	<b>0.00111 J</b>	--	--	
PCB-169	ng/L	E1668A	--	--	0.000884 U	--	--	
PCB-170	ng/L	E1668A	--	--	<b>0.00385 J</b>	--	--	
PCB-171/173	ng/L	E1668A	--	--	0.00153 U	--	--	
PCB-172	ng/L	E1668A	--	--	0.00149 U	--	--	
PCB-174	ng/L	E1668A	--	--	<b>0.00459 J</b>	--	--	
PCB-175	ng/L	E1668A	--	--	0.00134 U	--	--	
PCB-176	ng/L	E1668A	--	--	0.000855 U	--	--	
PCB-177	ng/L	E1668A	--	--	<b>0.00236 J</b>	--	--	
PCB-178	ng/L	E1668A	--	--	0.00128 U	--	--	
PCB-179	ng/L	E1668A	--	--	<b>0.00203 J</b>	--	--	
PCB-180/193	ng/L	E1668A	--	--	<b>0.00797 J</b>	--	--	
PCB-181	ng/L	E1668A	--	--	0.00135 U	--	--	
PCB-182	ng/L	E1668A	--	--	0.00122 U	--	--	
PCB-183	ng/L	E1668A	--	--	<b>0.00254 J</b>	--	--	
PCB-184	ng/L	E1668A	--	--	0.00095 U	--	--	
PCB-185	ng/L	E1668A	--	--	0.0014 U	--	--	
PCB-186	ng/L	E1668A	--	--	0.000912 U	--	--	
PCB-187	ng/L	E1668A	--	--	<b>0.0048 J</b>	--	--	
PCB-188	ng/L	E1668A	--	--	0.000768 U	--	--	
PCB-189	ng/L	E1668A	--	--	0.00097 U	--	--	
PCB-190	ng/L	E1668A	--	--	0.00117 U	--	--	
PCB-191	ng/L	E1668A	--	--	0.00107 U	--	--	
PCB-192	ng/L	E1668A	--	--	0.00115 U	--	--	
PCB-194	ng/L	E1668A	--	--	0.00147 U	--	--	

Appendix E  
Detailed Analytical Results

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB070_B_201403	PB079_201403	PB081_A_201403	PB081_A_201403	PB083_201403
Sample Date	Sample Type		PB070_B-2SWMID-140314-N	PB079-1SWMID-140314-N	PB081_A-1SWMID-140314-N	PB081_A-2SWMID-140315-N	PB083-1SWMID-140318-D
	X	Y	03/14/2014	03/14/2014	03/14/2014	03/15/2014	03/18/2014
			N	N	N	N	FD
			3201105.66718	3200739.58911	3200753.74845	3200753.74845	3200739.89221
			13830874.0613	13830192.2364	13829960.4001	13829960.4001	13829765.6659
PCB-195	ng/L	E1668A	--	--	0.00158 U	--	--
PCB-196	ng/L	E1668A	--	--	0.00122 U	--	--
PCB-197	ng/L	E1668A	--	--	0.000826 U	--	--
PCB-198/199	ng/L	E1668A	--	--	<b>0.0029 J</b>	--	--
PCB-200	ng/L	E1668A	--	--	0.00087 U	--	--
PCB-201	ng/L	E1668A	--	--	0.000823 U	--	--
PCB-202	ng/L	E1668A	--	--	0.000887 U	--	--
PCB-203	ng/L	E1668A	--	--	0.00121 U	--	--
PCB-204	ng/L	E1668A	--	--	0.000885 U	--	--
PCB-205	ng/L	E1668A	--	--	0.00118 U	--	--
PCB-206	ng/L	E1668A	--	--	0.00429 U	--	--
PCB-207	ng/L	E1668A	--	--	0.00214 U	--	--
PCB-208	ng/L	E1668A	--	--	0.00216 U	--	--
PCB-209	ng/L	E1668A	--	--	<b>0.0119</b>	--	--
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.04533 J</b>	--	--
Total Monochlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.04432 J</b>	--	--
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.48054 J</b>	--	--
Total Dichlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.46075 J</b>	--	--
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>2.6865 J</b>	--	--
Total Trichlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>2.68214 J</b>	--	--
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>3.238805 J</b>	--	--
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>3.23452 J</b>	--	--
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.8253615 J</b>	--	--
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.81586 J</b>	--	--
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.150675 J</b>	--	--
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.14439 J</b>	--	--
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.0368675 J</b>	--	--
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.02814 J</b>	--	--
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.0083755 J</b>	--	--
Total Octachlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.0029 J</b>	--	--
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	0.00429 U	--	--
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		--	--	0.00429 U	--	--
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	<b>0.0119</b>	--	--
Total Decachlorobiphenyl homologs (U = 0)	ng/L		--	--	<b>0.0119</b>	--	--
Total PCB Congener (U = 1/2)	ng/L		--	--	<b>7.4886495 J</b>	--	--
Total PCB Congener (U = 0)	ng/L		--	--	<b>7.42492 J</b>	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID		PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403	
	Sample ID		PB083-1SWMID-140318-N	PB085-1SWMID-140314-N	PB087-1SWMID-140318-N	PB089-1SWMID-140314-N	PB091-1SWMID-140318-N	
	Sample Date		03/18/2014	03/14/2014	03/18/2014	03/14/2014	03/18/2014	
	Sample Type		N	N	N	N	N	
	X		3200739.89221	3200716.68822	3200888.51485	3200952.5211	3200940.11827	
	Y		13829765.6659	13829591.4279	13829475.1089	13829302.1963	13829124.5159	
<b>Conventional Parameters (mg/L)</b>								
Total suspended solids	mg/L	SM2540D	5 J	8 J	5 J	12 J	12 J	
Dissolved organic carbon	mg/L	SW9060	--	--	--	--	--	
Total organic carbon	mg/L	SW9060	10.3	15.4	11.1	14.9	11.6	
<b>PCB Congeners (ng/L)</b>								
PCB-001	ng/L	E1668A	0.023	0.0233 J	0.0189	0.0176	0.0152	
PCB-002	ng/L	E1668A	0.0021 J	0.00148 U	0.00203 J	0.00144 U	0.00269 J	
PCB-003	ng/L	E1668A	0.0057 U	0.00534 J	0.00604 U	0.00425 J	0.00596 U	
PCB-004	ng/L	E1668A	0.151	0.145	0.149	0.125	0.147	
PCB-005	ng/L	E1668A	0.00202 J	0.00326 U	0.000852 U	0.00239 U	0.00082 U	
PCB-006	ng/L	E1668A	0.047	0.057	0.0473	0.0603	0.0706	
PCB-007	ng/L	E1668A	0.00357 J	0.00307 U	0.000801 U	0.00263 J	0.00259 J	
PCB-008	ng/L	E1668A	0.101	0.0571	0.0656	0.0468	0.0683	
PCB-009	ng/L	E1668A	0.00702 J	0.00508 J	0.00433 J	0.00453 J	0.00377 J	
PCB-010	ng/L	E1668A	0.00444 J	0.00488 J	0.00354 J	0.0048 J	0.00357 J	
PCB-011	ng/L	E1668A	0.0227 U	0.0307 U	0.0263 U	0.0374 U	0.0306 U	
PCB-012/013	ng/L	E1668A	0.0152 J	0.0189 J	0.017 J	0.022	0.0251	
PCB-014	ng/L	E1668A	0.000421 U	0.00275 U	0.000716 U	0.00202 U	0.000689 U	
PCB-015	ng/L	E1668A	0.0515	0.0345	0.0359	0.0356	0.0384	
PCB-016	ng/L	E1668A	0.172	0.138	0.126	0.118	0.119	
PCB-017	ng/L	E1668A	0.18	0.176	0.15	0.18	0.181	
PCB-018/030	ng/L	E1668A	0.51	0.418	0.368	0.389	0.383	
PCB-019	ng/L	E1668A	0.0797	0.0912	0.0812	0.0824	0.0911	
PCB-020/028	ng/L	E1668A	0.461	0.283	0.267	0.366	0.349	
PCB-021/033	ng/L	E1668A	0.13	0.0529	0.0608	0.0567	0.0644	
PCB-022	ng/L	E1668A	0.131	0.0736	0.0758	0.0885	0.0926	
PCB-023	ng/L	E1668A	0.000923 U	0.00176 U	0.00107 U	0.00171 U	0.00102 U	
PCB-024	ng/L	E1668A	0.00343 J	0.00355 J	0.00256 J	0.00293 J	0.00213 J	
PCB-025	ng/L	E1668A	0.0629	0.0718	0.0652	0.11	0.106	
PCB-026/029	ng/L	E1668A	0.0903	0.0683	0.064	0.0979	0.0892	
PCB-027	ng/L	E1668A	0.0311	0.034	0.0264	0.0321	0.0308	
PCB-031	ng/L	E1668A	0.463	0.253	0.242	0.315	0.302	
PCB-032	ng/L	E1668A	0.17	0.186	0.157	0.195	0.192	
PCB-034	ng/L	E1668A	0.00242 J	0.00213 J	0.00209 J	0.00337 J	0.00318 J	
PCB-035	ng/L	E1668A	0.00739 J	0.00397 J	0.00447 J	0.00689 J	0.00708 J	
PCB-036	ng/L	E1668A	0.000885 U	0.00171 U	0.00103 U	0.00165 U	0.000975 U	



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample Date	Sample Type	X	Y				
PCB-037	ng/L	E1668A	0.0735	0.0365	0.0388	0.0476	0.0484
PCB-038	ng/L	E1668A	0.000957 U	0.00185 U	0.00112 U	0.0018 U	0.00105 U
PCB-039	ng/L	E1668A	0.00381 J	0.00166 U	0.00219 J	0.00269 J	0.00299 J
PCB-040/071	ng/L	E1668A	0.312	0.179	0.177	0.251	0.24
PCB-041	ng/L	E1668A	0.0523	0.022	0.018	0.0273	0.0186
PCB-042	ng/L	E1668A	0.178	0.105	0.1	0.147	0.138
PCB-043	ng/L	E1668A	0.0283	0.014	0.0144	0.0206	0.0195
PCB-044/047/065	ng/L	E1668A	0.702	0.418	0.389	0.574	0.511
PCB-045	ng/L	E1668A	0.129	0.0651	0.0672	0.0771	0.0771
PCB-046	ng/L	E1668A	0.0573	0.035	0.033	0.0421	0.0419
PCB-048	ng/L	E1668A	0.125	0.0587	0.0557	0.0745	0.069
PCB-049/069	ng/L	E1668A	0.408	0.253	0.228	0.372	0.326
PCB-050/053	ng/L	E1668A	0.154	0.087	0.0886	0.113	0.113
PCB-051	ng/L	E1668A	0.0709	0.0545	0.0564	0.0592	0.0631
PCB-052	ng/L	E1668A	0.829	0.473	0.451	0.666	0.574
PCB-054	ng/L	E1668A	0.00283 J	0.00232 J	0.00288 J	0.00306 J	0.00341 J
PCB-055	ng/L	E1668A	0.00443 J	0.00297 J	0.00283 J	0.00532 J	0.00412 J
PCB-056	ng/L	E1668A	0.225	0.122	0.119	0.182	0.169
PCB-057	ng/L	E1668A	0.00247 J	0.00124 J	0.0014 J	0.00322 J	0.0022 J
PCB-058	ng/L	E1668A	0.000923 J	0.00112 U	0.000898 U	0.00128 J	0.00124 J
PCB-059/062/075	ng/L	E1668A	0.0493	0.0297 J	0.0274 J	0.04	0.0356
PCB-060	ng/L	E1668A	0.0968	0.051	0.0494	0.0771	0.0634
PCB-061/070/074/076	ng/L	E1668A	0.726	0.394	0.35	0.6	0.49
PCB-063	ng/L	E1668A	0.0163	0.0103 J	0.00959 J	0.0182	0.0157
PCB-064	ng/L	E1668A	0.264	0.151	0.137	0.21	0.187
PCB-066	ng/L	E1668A	0.453	0.253	0.231	0.403	0.337
PCB-067	ng/L	E1668A	0.0106	0.00526 J	0.00556 J	0.0104	0.00875 J
PCB-068	ng/L	E1668A	0.0256	0.0267	0.0239	0.0295	0.0227
PCB-072	ng/L	E1668A	0.00315 J	0.00186 J	0.00181 J	0.00452 J	0.0035 J
PCB-073	ng/L	E1668A	0.00159 J	0.00135 J	0.00113 J	0.00162 J	0.00135 J
PCB-077	ng/L	E1668A	0.0354	0.0191	0.0208	0.0337	0.0322
PCB-078	ng/L	E1668A	0.000805 U	0.00127 U	0.000998 U	0.0013 U	0.000784 U
PCB-079	ng/L	E1668A	0.0085	0.00146 J	0.00185 J	0.00273 J	0.00342 J
PCB-080	ng/L	E1668A	0.00067 U	0.00103 U	0.000831 U	0.00105 U	0.000653 U
PCB-081	ng/L	E1668A	0.00182 J	0.00126 U	0.00102 U	0.00179 J	0.00134 J
PCB-082	ng/L	E1668A	0.0524	0.0312	0.0285	0.0509	0.0395

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample Date	Sample Type	X	Y				
PCB-083	ng/L	E1668A	0.0151	0.0116	0.0119	0.0208	0.0164
PCB-084	ng/L	E1668A	0.103	0.0643	0.0596	0.106	0.0829
PCB-085/116	ng/L	E1668A	0.0685	0.0414	0.0444	0.0642	0.0532
PCB-086/087/097/108/119/125	ng/L	E1668A	0.207	0.122	0.117	0.209	0.158
PCB-088	ng/L	E1668A	0.000759 U	0.00109 U	0.00103 U	0.00142 U	0.000834 U
PCB-089	ng/L	E1668A	0.0106	0.00557 J	0.00543 J	0.00909 J	0.0083 J
PCB-090/101/113	ng/L	E1668A	0.23	0.149	0.136	0.257	0.177
PCB-091	ng/L	E1668A	0.0527	0.0341	0.0298	0.0604	0.0441
PCB-092	ng/L	E1668A	0.0451	0.0313	0.0274	0.0528	0.0372
PCB-093/100	ng/L	E1668A	0.00516 J	0.00286 J	0.00289 J	0.00539 J	0.00464 J
PCB-094	ng/L	E1668A	0.00332 J	0.00182 J	0.0017 J	0.00328 J	0.00315 J
PCB-095	ng/L	E1668A	0.217	0.135	0.128	0.22	0.157
PCB-096	ng/L	E1668A	0.00727 J	0.00431 J	0.00422 J	0.00599 J	0.0059 J
PCB-098	ng/L	E1668A	0.000974 J	0.00119 U	0.00109 U	0.00155 U	0.000905 J
PCB-099	ng/L	E1668A	0.146	0.0941	0.0788	0.163	0.116
PCB-102	ng/L	E1668A	0.0152	0.00942 J	0.00836 J	0.0159	0.012
PCB-103	ng/L	E1668A	0.00267 J	0.00143 J	0.00141 J	0.0032 J	0.00209 J
PCB-104	ng/L	E1668A	0.000282 U	0.000564 U	0.000344 U	0.000495 U	0.000302 U
PCB-105	ng/L	E1668A	0.0993	0.0601	0.0556	0.107	0.0769
PCB-106	ng/L	E1668A	0.00118 J	0.000804 U	0.00115 J	0.00105 U	0.00149 J
PCB-107/124	ng/L	E1668A	0.00858 J	0.00589 J	0.00479 J	0.00976 J	0.00634 J
PCB-109	ng/L	E1668A	0.0157	0.0102 J	0.00923 J	0.0175	0.0139
PCB-110	ng/L	E1668A	0.292	0.186	0.179	0.316	0.235
PCB-111	ng/L	E1668A	0.000489 U	0.000719 U	0.000664 U	0.000935 U	0.000537 U
PCB-112	ng/L	E1668A	0.00107 J	0.00074 U	0.000986 J	0.000962 U	0.00068 J
PCB-114	ng/L	E1668A	0.00619 J	0.00367 J	0.00348 J	0.00596 J	0.00442 J
PCB-115	ng/L	E1668A	0.00761 J	0.00241 J	0.000693 U	0.00563 J	0.00352 J
PCB-117	ng/L	E1668A	0.00896	0.00364 J	0.000681 U	0.0103 J	0.00702 J
PCB-118	ng/L	E1668A	0.182	0.116	0.105	0.206	0.148
PCB-120	ng/L	E1668A	0.000681 J	0.000708 U	0.000655 U	0.000921 U	0.000529 U
PCB-121	ng/L	E1668A	0.000493 U	0.000711 U	0.00067 U	0.000924 U	0.000541 U
PCB-122	ng/L	E1668A	0.00458 J	0.00298 J	0.00267 J	0.00394 J	0.00331 J
PCB-123	ng/L	E1668A	0.00504 J	0.00338 J	0.00282 J	0.00543 J	0.00335 J
PCB-126	ng/L	E1668A	0.00123 J	0.00114 U	0.000752 U	0.00142 U	0.000864 U
PCB-127	ng/L	E1668A	0.000507 U	0.000767 U	0.000693 U	0.00095 U	0.000583 U
PCB-128/166	ng/L	E1668A	0.0165 J	0.0118 J	0.0118 J	0.0211	0.0127 J

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample Date	Sample Type	X	Y				
PCB-129/138/163	ng/L	E1668A	0.105	0.0776	0.0712	0.136	0.0828
PCB-130	ng/L	E1668A	0.00757 J	0.00515 J	0.00505 J	0.00889 J	0.00586 J
PCB-131	ng/L	E1668A	0.00184 J	0.00133 J	0.00133 J	0.00203 J	0.00149 J
PCB-132	ng/L	E1668A	0.0372	0.0264	0.0263	0.0447	0.0276
PCB-133	ng/L	E1668A	0.00143 J	0.000702 U	0.00131 J	0.00151 J	0.00128 J
PCB-134	ng/L	E1668A	0.00639 J	0.00573 J	0.00394 J	0.00902 J	0.00519 J
PCB-135/151	ng/L	E1668A	0.0282	0.021	0.019 J	0.0358	0.022
PCB-136	ng/L	E1668A	0.014	0.01 J	0.00951 J	0.0173	0.0102 J
PCB-137	ng/L	E1668A	0.00551 J	0.0035 J	0.00372 J	0.00664 J	0.00405 J
PCB-139/140	ng/L	E1668A	0.00237 J	0.0019 J	0.00166 J	0.00283 J	0.002 J
PCB-141	ng/L	E1668A	0.0169	0.0119	0.0116	0.0193	0.0128
PCB-142	ng/L	E1668A	0.000431 U	0.000792 U	0.000511 U	0.000651 U	0.00039 U
PCB-143	ng/L	E1668A	0.000717 J	0.000664 U	0.000475 U	0.000546 U	0.000362 U
PCB-144	ng/L	E1668A	0.0042 J	0.0031 J	0.00287 J	0.00512 J	0.00322 J
PCB-145	ng/L	E1668A	0.000273 U	0.000506 U	0.000342 U	0.000426 U	0.000245 U
PCB-146	ng/L	E1668A	0.0138	0.0099 J	0.00956 J	0.018	0.0113
PCB-147/149	ng/L	E1668A	0.071	0.0513	0.0485	0.0882	0.0537
PCB-148	ng/L	E1668A	0.000356 U	0.000652 U	0.000423 U	0.000536 U	0.000322 U
PCB-150	ng/L	E1668A	0.000259 U	0.000474 U	0.000324 U	0.000399 U	0.000232 U
PCB-152	ng/L	E1668A	0.000263 U	0.00048 U	0.000329 U	0.000405 U	0.000235 U
PCB-153/168	ng/L	E1668A	0.0692	0.0504	0.045	0.0865	0.054
PCB-154	ng/L	E1668A	0.0011 J	0.000588 U	0.000709 J	0.00148 J	0.000288 U
PCB-155	ng/L	E1668A	0.000329 J	0.000421 U	0.000321 J	0.000733 J	0.000698 J
PCB-156/157	ng/L	E1668A	0.0114 J	0.00742 J	0.00798 J	0.0143 J	0.00899 J
PCB-158	ng/L	E1668A	0.0101	0.00784 J	0.00725 J	0.0128	0.00802 J
PCB-159	ng/L	E1668A	0.000749 J	0.000593 U	0.000502 J	0.000633 U	0.000674 J
PCB-160	ng/L	E1668A	0.000294 U	0.000563 U	0.000349 U	0.000463 U	0.000266 U
PCB-161	ng/L	E1668A	0.000277 U	0.000517 U	0.000329 U	0.000425 U	0.000251 U
PCB-162	ng/L	E1668A	0.000411 U	0.000598 U	0.000328 U	0.000638 U	0.0004 U
PCB-164	ng/L	E1668A	0.00706 J	0.00448 J	0.00504 J	0.0092 J	0.00575 J
PCB-165	ng/L	E1668A	0.000302 U	0.00056 U	0.000359 U	0.000461 U	0.000273 U
PCB-167	ng/L	E1668A	0.0034 J	0.00249 J	0.00242 J	0.00375 J	0.00278 J
PCB-169	ng/L	E1668A	0.000434 U	0.000643 U	0.000342 U	0.00068 U	0.000446 U
PCB-170	ng/L	E1668A	0.0147	0.012	0.00847 J	0.0172	0.0104
PCB-171/173	ng/L	E1668A	0.00468 J	0.00385 J	0.00305 J	0.0061 J	0.00316 J
PCB-172	ng/L	E1668A	0.00263 J	0.0019 J	0.00143 J	0.00266 J	0.00204 J

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample Date	Sample Type	X	Y				
PCB-174	ng/L	E1668A	0.0159	0.0108	0.00803 J	0.0195	0.0112
PCB-175	ng/L	E1668A	0.000667 J	0.000906 U	0.000468 U	0.000867 U	0.000576 J
PCB-176	ng/L	E1668A	0.00195 J	0.00164 J	0.00104 J	0.00228 J	0.00131 J
PCB-177	ng/L	E1668A	0.00761 J	0.00568 J	0.00505 J	0.0107	0.00616 J
PCB-178	ng/L	E1668A	0.00324 J	0.00248 J	0.00166 J	0.00391 J	0.0024 J
PCB-179	ng/L	E1668A	0.00712 J	0.00521 J	0.0043 J	0.00893 J	0.00536 J
PCB-180/193	ng/L	E1668A	0.0315	0.0219	0.0187 J	0.0363	0.0218
PCB-181	ng/L	E1668A	0.000578 U	0.000915 U	0.000469 U	0.000876 U	0.000535 U
PCB-182	ng/L	E1668A	0.000526 U	0.000822 U	0.000426 U	0.000787 U	0.000487 U
PCB-183	ng/L	E1668A	0.00779 J	0.00597 J	0.00433 J	0.0106	0.0069 J
PCB-184	ng/L	E1668A	0.00031 U	0.000638 U	0.000533 J	0.00225 J	0.00114 J
PCB-185	ng/L	E1668A	0.00148 J	0.000948 U	0.00141 J	0.00193 J	0.000912 J
PCB-186	ng/L	E1668A	0.000305 U	0.000613 U	0.000364 U	0.000553 U	0.000309 U
PCB-187	ng/L	E1668A	0.0183	0.0134	0.0115	0.0235	0.0145
PCB-188	ng/L	E1668A	0.000258 U	0.000516 U	0.000307 U	0.000466 U	0.00026 U
PCB-189	ng/L	E1668A	0.000645 J	0.000723 U	0.000628 J	0.000723 U	0.000617 J
PCB-190	ng/L	E1668A	0.00278 J	0.00209 J	0.00144 J	0.00308 J	0.00199 J
PCB-191	ng/L	E1668A	0.000677 J	0.000725 U	0.000503 J	0.000694 U	0.000415 U
PCB-192	ng/L	E1668A	0.000481 U	0.000776 U	0.00039 U	0.000742 U	0.000445 U
PCB-194	ng/L	E1668A	0.00646 J	0.00406 J	0.00387 J	0.00668 J	0.00428 J
PCB-195	ng/L	E1668A	0.0025 J	0.00174 J	0.00108 J	0.00218 J	0.00182 J
PCB-196	ng/L	E1668A	0.00355 J	0.00249 J	0.00198 J	0.00334 J	0.00262 J
PCB-197	ng/L	E1668A	0.000581 J	0.000715 U	0.000408 U	0.000648 U	0.000405 J
PCB-198/199	ng/L	E1668A	0.0092 J	0.00653 J	0.00485 J	0.00996 J	0.00725 J
PCB-200	ng/L	E1668A	0.000853 J	0.000753 U	0.000649 J	0.00107 J	0.000601 J
PCB-201	ng/L	E1668A	0.00116 J	0.000712 U	0.000836 J	0.00147 J	0.000796 J
PCB-202	ng/L	E1668A	0.00206 J	0.00168 J	0.00128 J	0.00289 J	0.00164 J
PCB-203	ng/L	E1668A	0.00461 J	0.00315 J	0.00274 J	0.00514 J	0.00283 J
PCB-204	ng/L	E1668A	0.000349 U	0.000766 U	0.000418 U	0.000694 U	0.000407 U
PCB-205	ng/L	E1668A	0.00049 U	0.000828 U	0.000563 U	0.00093 U	0.000425 U
PCB-206	ng/L	E1668A	0.00421 J	0.00243 U	0.00203 U	0.00255 U	0.00305 J
PCB-207	ng/L	E1668A	0.00147 J	0.00152 U	0.00122 U	0.00149 U	0.000872 U
PCB-208	ng/L	E1668A	0.00219 J	0.00153 U	0.00127 U	0.00151 U	0.00104 J
PCB-209	ng/L	E1668A	0.0426	0.012	0.0115	0.0115	0.00581 J
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		0.028 J	0.02938 J	0.02395 J	0.02257 J	0.02087 J
Total Monochlorobiphenyl homologs (U = 0)	ng/L		0.0251 J	0.02864 J	0.02093 J	0.02185 J	0.01789 J

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Location ID			PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
	Sample ID			PB083-1SWMID-140318-N	PB085-1SWMID-140314-N	PB087-1SWMID-140318-N	PB089-1SWMID-140314-N	PB091-1SWMID-140318-N
	Sample Date			03/18/2014	03/14/2014	03/18/2014	03/14/2014	03/18/2014
	Sample Type			N	N	N	N	N
	X			3200739.89221	3200716.68822	3200888.51485	3200952.5211	3200940.11827
	Y			13829765.6659	13829591.4279	13829475.1089	13829302.1963	13829124.5159
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L			0.3943105 J	0.34235 J	0.3370045 J	0.322565 J	0.3753845 J
Total Dichlorobiphenyl homologs (U = 0)	ng/L			0.38275 J	0.32246 J	0.32267 J	0.30166 J	0.35933 J
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L			2.5729325 J	1.89544 J	1.73512 J	2.09666 J	2.0654025 J
Total Trichlorobiphenyl homologs (U = 0)	ng/L			2.57155 J	1.89195 J	1.73351 J	2.09408 J	2.06388 J
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L			4.9742505 J	2.8399 J	2.6657235 J	4.052415 J	3.5738485 J
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L			4.973513 J	2.83756 J	2.66385 J	4.05124 J	3.57313 J
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L			1.81738 J	1.1378965 J	1.053772 J	1.9397835 J	1.42431 J
Total Pentachlorobiphenyl homologs (U = 0)	ng/L			1.816115 J	1.13368 J	1.050136 J	1.93447 J	1.422215 J
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L			0.437615 J	0.3176165 J	0.2986275 J	0.5483345 J	0.338957 J
Total Hexachlorobiphenyl homologs (U = 0)	ng/L			0.435965 J	0.31324 J	0.296572 J	0.545203 J	0.337102 J
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L			0.122898 J	0.090711 J	0.073286 J	0.151794 J	0.0916905 J
Total Heptachlorobiphenyl homologs (U = 0)	ng/L			0.121669 J	0.08692 J	0.072074 J	0.14894 J	0.090465 J
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L			0.0313935 J	0.021537 J	0.0179795 J	0.033866 J	0.022658 J
Total Octachlorobiphenyl homologs (U = 0)	ng/L			0.030974 J	0.01965 J	0.017285 J	0.03273 J	0.022242 J
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L			0.00787 J	0.00243 U	0.00203 U	0.00255 U	0.004526 J
Total Nonachlorobiphenyl homologs (U = 0)	ng/L			0.00787 J	0.00243 U	0.00203 U	0.00255 U	0.00409 J
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L			0.0426	0.012	0.0115	0.0115	0.00581 J
Total Decachlorobiphenyl homologs (U = 0)	ng/L			0.0426	0.012	0.0115	0.0115	0.00581 J
Total PCB Congener (U = 1/2)	ng/L			10.4292 J	6.689571 J	6.219223 J	9.182263 J	7.923457 J
Total PCB Congener (U = 0)	ng/L			10.408106 J	6.6461 J	6.188527 J	9.141673 J	7.896154 J
<b>PCB Congeners, Dissolved (ng/L)</b>								
PCB-001	ng/L	E1668A		--	--	--	--	--
PCB-002	ng/L	E1668A		--	--	--	--	--
PCB-003	ng/L	E1668A		--	--	--	--	--
PCB-004	ng/L	E1668A		--	--	--	--	--
PCB-005	ng/L	E1668A		--	--	--	--	--
PCB-006	ng/L	E1668A		--	--	--	--	--
PCB-007	ng/L	E1668A		--	--	--	--	--
PCB-008	ng/L	E1668A		--	--	--	--	--
PCB-009	ng/L	E1668A		--	--	--	--	--
PCB-010	ng/L	E1668A		--	--	--	--	--
PCB-011	ng/L	E1668A		--	--	--	--	--
PCB-012/013	ng/L	E1668A		--	--	--	--	--
PCB-014	ng/L	E1668A		--	--	--	--	--
PCB-015	ng/L	E1668A		--	--	--	--	--
PCB-016	ng/L	E1668A		--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample Date	Sample Type	X	Y				
PCB-017	ng/L	E1668A	--	--	--	--	--
PCB-018/030	ng/L	E1668A	--	--	--	--	--
PCB-019	ng/L	E1668A	--	--	--	--	--
PCB-020/028	ng/L	E1668A	--	--	--	--	--
PCB-021/033	ng/L	E1668A	--	--	--	--	--
PCB-022	ng/L	E1668A	--	--	--	--	--
PCB-023	ng/L	E1668A	--	--	--	--	--
PCB-024	ng/L	E1668A	--	--	--	--	--
PCB-025	ng/L	E1668A	--	--	--	--	--
PCB-026/029	ng/L	E1668A	--	--	--	--	--
PCB-027	ng/L	E1668A	--	--	--	--	--
PCB-031	ng/L	E1668A	--	--	--	--	--
PCB-032	ng/L	E1668A	--	--	--	--	--
PCB-034	ng/L	E1668A	--	--	--	--	--
PCB-035	ng/L	E1668A	--	--	--	--	--
PCB-036	ng/L	E1668A	--	--	--	--	--
PCB-037	ng/L	E1668A	--	--	--	--	--
PCB-038	ng/L	E1668A	--	--	--	--	--
PCB-039	ng/L	E1668A	--	--	--	--	--
PCB-040/071	ng/L	E1668A	--	--	--	--	--
PCB-041	ng/L	E1668A	--	--	--	--	--
PCB-042	ng/L	E1668A	--	--	--	--	--
PCB-043	ng/L	E1668A	--	--	--	--	--
PCB-044/047/065	ng/L	E1668A	--	--	--	--	--
PCB-045	ng/L	E1668A	--	--	--	--	--
PCB-046	ng/L	E1668A	--	--	--	--	--
PCB-048	ng/L	E1668A	--	--	--	--	--
PCB-049/069	ng/L	E1668A	--	--	--	--	--
PCB-050/053	ng/L	E1668A	--	--	--	--	--
PCB-051	ng/L	E1668A	--	--	--	--	--
PCB-052	ng/L	E1668A	--	--	--	--	--
PCB-054	ng/L	E1668A	--	--	--	--	--
PCB-055	ng/L	E1668A	--	--	--	--	--
PCB-056	ng/L	E1668A	--	--	--	--	--
PCB-057	ng/L	E1668A	--	--	--	--	--
PCB-058	ng/L	E1668A	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample Date	Sample Type	X	Y				
PCB-059/062/075	ng/L	E1668A	--	--	--	--	--
PCB-060	ng/L	E1668A	--	--	--	--	--
PCB-061/070/074/076	ng/L	E1668A	--	--	--	--	--
PCB-063	ng/L	E1668A	--	--	--	--	--
PCB-064	ng/L	E1668A	--	--	--	--	--
PCB-066	ng/L	E1668A	--	--	--	--	--
PCB-067	ng/L	E1668A	--	--	--	--	--
PCB-068	ng/L	E1668A	--	--	--	--	--
PCB-072	ng/L	E1668A	--	--	--	--	--
PCB-073	ng/L	E1668A	--	--	--	--	--
PCB-077	ng/L	E1668A	--	--	--	--	--
PCB-078	ng/L	E1668A	--	--	--	--	--
PCB-079	ng/L	E1668A	--	--	--	--	--
PCB-080	ng/L	E1668A	--	--	--	--	--
PCB-081	ng/L	E1668A	--	--	--	--	--
PCB-082	ng/L	E1668A	--	--	--	--	--
PCB-083	ng/L	E1668A	--	--	--	--	--
PCB-084	ng/L	E1668A	--	--	--	--	--
PCB-085/116	ng/L	E1668A	--	--	--	--	--
PCB-086/087/097/108/119/125	ng/L	E1668A	--	--	--	--	--
PCB-088	ng/L	E1668A	--	--	--	--	--
PCB-089	ng/L	E1668A	--	--	--	--	--
PCB-090/101/113	ng/L	E1668A	--	--	--	--	--
PCB-091	ng/L	E1668A	--	--	--	--	--
PCB-092	ng/L	E1668A	--	--	--	--	--
PCB-093/100	ng/L	E1668A	--	--	--	--	--
PCB-094	ng/L	E1668A	--	--	--	--	--
PCB-095	ng/L	E1668A	--	--	--	--	--
PCB-096	ng/L	E1668A	--	--	--	--	--
PCB-098	ng/L	E1668A	--	--	--	--	--
PCB-099	ng/L	E1668A	--	--	--	--	--
PCB-102	ng/L	E1668A	--	--	--	--	--
PCB-103	ng/L	E1668A	--	--	--	--	--
PCB-104	ng/L	E1668A	--	--	--	--	--
PCB-105	ng/L	E1668A	--	--	--	--	--
PCB-106	ng/L	E1668A	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
			Location ID	PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
			Sample ID	PB083-1SWMID-140318-N	PB085-1SWMID-140314-N	PB087-1SWMID-140318-N	PB089-1SWMID-140314-N	PB091-1SWMID-140318-N
			Sample Date	03/18/2014	03/14/2014	03/18/2014	03/14/2014	03/18/2014
			Sample Type	N	N	N	N	N
			X	3200739.89221	3200716.68822	3200888.51485	3200952.5211	3200940.11827
			Y	13829765.6659	13829591.4279	13829475.1089	13829302.1963	13829124.5159
PCB-107/124	ng/L	E1668A	--	--	--	--	--	--
PCB-109	ng/L	E1668A	--	--	--	--	--	--
PCB-110	ng/L	E1668A	--	--	--	--	--	--
PCB-111	ng/L	E1668A	--	--	--	--	--	--
PCB-112	ng/L	E1668A	--	--	--	--	--	--
PCB-114	ng/L	E1668A	--	--	--	--	--	--
PCB-115	ng/L	E1668A	--	--	--	--	--	--
PCB-117	ng/L	E1668A	--	--	--	--	--	--
PCB-118	ng/L	E1668A	--	--	--	--	--	--
PCB-120	ng/L	E1668A	--	--	--	--	--	--
PCB-121	ng/L	E1668A	--	--	--	--	--	--
PCB-122	ng/L	E1668A	--	--	--	--	--	--
PCB-123	ng/L	E1668A	--	--	--	--	--	--
PCB-126	ng/L	E1668A	--	--	--	--	--	--
PCB-127	ng/L	E1668A	--	--	--	--	--	--
PCB-128/166	ng/L	E1668A	--	--	--	--	--	--
PCB-129/138/163	ng/L	E1668A	--	--	--	--	--	--
PCB-130	ng/L	E1668A	--	--	--	--	--	--
PCB-131	ng/L	E1668A	--	--	--	--	--	--
PCB-132	ng/L	E1668A	--	--	--	--	--	--
PCB-133	ng/L	E1668A	--	--	--	--	--	--
PCB-134	ng/L	E1668A	--	--	--	--	--	--
PCB-135/151	ng/L	E1668A	--	--	--	--	--	--
PCB-136	ng/L	E1668A	--	--	--	--	--	--
PCB-137	ng/L	E1668A	--	--	--	--	--	--
PCB-139/140	ng/L	E1668A	--	--	--	--	--	--
PCB-141	ng/L	E1668A	--	--	--	--	--	--
PCB-142	ng/L	E1668A	--	--	--	--	--	--
PCB-143	ng/L	E1668A	--	--	--	--	--	--
PCB-144	ng/L	E1668A	--	--	--	--	--	--
PCB-145	ng/L	E1668A	--	--	--	--	--	--
PCB-146	ng/L	E1668A	--	--	--	--	--	--
PCB-147/149	ng/L	E1668A	--	--	--	--	--	--
PCB-148	ng/L	E1668A	--	--	--	--	--	--
PCB-150	ng/L	E1668A	--	--	--	--	--	--
PCB-152	ng/L	E1668A	--	--	--	--	--	--



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
	Task		PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
	Location ID						
	Sample ID		PB083-1SWMID-140318-N	PB085-1SWMID-140314-N	PB087-1SWMID-140318-N	PB089-1SWMID-140314-N	PB091-1SWMID-140318-N
	Sample Date		03/18/2014	03/14/2014	03/18/2014	03/14/2014	03/18/2014
	Sample Type		N	N	N	N	N
	X		3200739.89221	3200716.68822	3200888.51485	3200952.5211	3200940.11827
	Y		13829765.6659	13829591.4279	13829475.1089	13829302.1963	13829124.5159
PCB-153/168	ng/L	E1668A	--	--	--	--	--
PCB-154	ng/L	E1668A	--	--	--	--	--
PCB-155	ng/L	E1668A	--	--	--	--	--
PCB-156/157	ng/L	E1668A	--	--	--	--	--
PCB-158	ng/L	E1668A	--	--	--	--	--
PCB-159	ng/L	E1668A	--	--	--	--	--
PCB-160	ng/L	E1668A	--	--	--	--	--
PCB-161	ng/L	E1668A	--	--	--	--	--
PCB-162	ng/L	E1668A	--	--	--	--	--
PCB-164	ng/L	E1668A	--	--	--	--	--
PCB-165	ng/L	E1668A	--	--	--	--	--
PCB-167	ng/L	E1668A	--	--	--	--	--
PCB-169	ng/L	E1668A	--	--	--	--	--
PCB-170	ng/L	E1668A	--	--	--	--	--
PCB-171/173	ng/L	E1668A	--	--	--	--	--
PCB-172	ng/L	E1668A	--	--	--	--	--
PCB-174	ng/L	E1668A	--	--	--	--	--
PCB-175	ng/L	E1668A	--	--	--	--	--
PCB-176	ng/L	E1668A	--	--	--	--	--
PCB-177	ng/L	E1668A	--	--	--	--	--
PCB-178	ng/L	E1668A	--	--	--	--	--
PCB-179	ng/L	E1668A	--	--	--	--	--
PCB-180/193	ng/L	E1668A	--	--	--	--	--
PCB-181	ng/L	E1668A	--	--	--	--	--
PCB-182	ng/L	E1668A	--	--	--	--	--
PCB-183	ng/L	E1668A	--	--	--	--	--
PCB-184	ng/L	E1668A	--	--	--	--	--
PCB-185	ng/L	E1668A	--	--	--	--	--
PCB-186	ng/L	E1668A	--	--	--	--	--
PCB-187	ng/L	E1668A	--	--	--	--	--
PCB-188	ng/L	E1668A	--	--	--	--	--
PCB-189	ng/L	E1668A	--	--	--	--	--
PCB-190	ng/L	E1668A	--	--	--	--	--
PCB-191	ng/L	E1668A	--	--	--	--	--
PCB-192	ng/L	E1668A	--	--	--	--	--
PCB-194	ng/L	E1668A	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task							
Location ID			PB083_201403	PB085_201403	PB087_201403	PB089_201403	PB091_201403
Sample ID			PB083-1SWMID-140318-N	PB085-1SWMID-140314-N	PB087-1SWMID-140318-N	PB089-1SWMID-140314-N	PB091-1SWMID-140318-N
Sample Date			03/18/2014	03/14/2014	03/18/2014	03/14/2014	03/18/2014
Sample Type			N	N	N	N	N
X			3200739.89221	3200716.68822	3200888.51485	3200952.5211	3200940.11827
Y			13829765.6659	13829591.4279	13829475.1089	13829302.1963	13829124.5159
PCB-195	ng/L	E1668A	--	--	--	--	--
PCB-196	ng/L	E1668A	--	--	--	--	--
PCB-197	ng/L	E1668A	--	--	--	--	--
PCB-198/199	ng/L	E1668A	--	--	--	--	--
PCB-200	ng/L	E1668A	--	--	--	--	--
PCB-201	ng/L	E1668A	--	--	--	--	--
PCB-202	ng/L	E1668A	--	--	--	--	--
PCB-203	ng/L	E1668A	--	--	--	--	--
PCB-204	ng/L	E1668A	--	--	--	--	--
PCB-205	ng/L	E1668A	--	--	--	--	--
PCB-206	ng/L	E1668A	--	--	--	--	--
PCB-207	ng/L	E1668A	--	--	--	--	--
PCB-208	ng/L	E1668A	--	--	--	--	--
PCB-209	ng/L	E1668A	--	--	--	--	--
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Monochlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Dichlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Trichlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Octachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--
Total Decachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--
Total PCB Congener (U = 1/2)	ng/L		--	--	--	--	--
Total PCB Congener (U = 0)	ng/L		--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	
Task	Location ID	Sample ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD	
Sample Date	Sample Type	X	Y					
		03/18/2014	N	3200967.69985	3201056.9615	3201111.78081	3201139.93874	3201138.73978
		03/18/2014	N	13828915.1377	13828738.307	13828556.6898	13828443.8494	13828426.2285
		03/14/2014	N					
		03/19/2014	N					
		03/19/2014	FD					
<b>Conventional Parameters (mg/L)</b>								
Total suspended solids	mg/L	SM2540D	6 J	14 J	19 J	9 J	6 J	
Dissolved organic carbon	mg/L	SW9060	--	--	--	--	--	
Total organic carbon	mg/L	SW9060	11.4	10.7	10.3	12.1	11.9	
<b>PCB Congeners (ng/L)</b>								
PCB-001	ng/L	E1668A	0.0138	0.013	0.012	0.0167	0.0131	
PCB-002	ng/L	E1668A	0.00251 J	0.00258 J	0.00176 J	0.00371 J	0.00226 J	
PCB-003	ng/L	E1668A	0.00506 U	0.00566 U	0.00304 J	0.00882	0.00506 J	
PCB-004	ng/L	E1668A	0.116	0.111	0.0645	0.0923	0.0854	
PCB-005	ng/L	E1668A	0.000926 J	0.000309 U	0.00124 U	0.00409 U	0.0015 U	
PCB-006	ng/L	E1668A	0.0632	0.0555	0.0319	0.053	0.0447	
PCB-007	ng/L	E1668A	0.00228 J	0.00206 J	0.00152 J	0.00384 U	0.00196 J	
PCB-008	ng/L	E1668A	0.0521	0.0517	0.0237	0.039	0.0328	
PCB-009	ng/L	E1668A	0.00357 J	0.00348 J	0.00234 J	0.0044 U	0.00269 J	
PCB-010	ng/L	E1668A	0.00322 J	0.00305 J	0.00183 U	0.00541 U	0.00284 J	
PCB-011	ng/L	E1668A	0.0276 U	0.0262 U	0.0241 U	0.023 U	0.0235 U	
PCB-012/013	ng/L	E1668A	0.0206	0.0208	0.0108 J	0.0174	0.0154 J	
PCB-014	ng/L	E1668A	0.000473 U	0.00026 U	0.00104 U	0.00346 U	0.00126 U	
PCB-015	ng/L	E1668A	0.0308	0.0313	0.0153 J	0.0235	0.0217	
PCB-016	ng/L	E1668A	0.0796	0.0866	0.0497	0.0706	0.0683	
PCB-017	ng/L	E1668A	0.129	0.139	0.0761	0.0879	0.0953	
PCB-018/030	ng/L	E1668A	0.277	0.296	0.157	0.201	0.203	
PCB-019	ng/L	E1668A	0.0713	0.0771	0.0359	0.0461	0.045	
PCB-020/028	ng/L	E1668A	0.262	0.31	0.117	0.181	0.182	
PCB-021/033	ng/L	E1668A	0.0436	0.049	0.0168 J	0.0337	0.0333	
PCB-022	ng/L	E1668A	0.0686	0.0802	0.0301	0.0487	0.0498	
PCB-023	ng/L	E1668A	0.000867 U	0.000833 U	0.000828 U	0.00393 U	0.00162 U	
PCB-024	ng/L	E1668A	0.0016 J	0.00198 J	0.00195 J	0.00351 U	0.00191 U	
PCB-025	ng/L	E1668A	0.0914	0.104	0.0429	0.0621	0.0623	
PCB-026/029	ng/L	E1668A	0.0776	0.0844	0.0346	0.0534	0.0517	
PCB-027	ng/L	E1668A	0.0222	0.0243	0.0133	0.013 J	0.0158	
PCB-031	ng/L	E1668A	0.24	0.267	0.0997	0.162	0.161	
PCB-032	ng/L	E1668A	0.137	0.158	0.0745	0.0907	0.0946	
PCB-034	ng/L	E1668A	0.00277 J	0.00306 J	0.00104 J	0.00398 U	0.00164 U	
PCB-035	ng/L	E1668A	0.00469 J	0.00594 J	0.00304 J	0.00424 U	0.00174 U	
PCB-036	ng/L	E1668A	0.000832 U	0.0008 U	0.000801 U	0.00367 U	0.00151 U	

Appendix E  
Detailed Analytical Results

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
Sample Date	Sample Type	X	Y				
PCB-037	ng/L	E1668A	0.0341	0.0411	0.0158	0.0237	0.0251
PCB-038	ng/L	E1668A	0.0009 U	0.000865 U	0.00087 U	0.00408 U	0.00168 U
PCB-039	ng/L	E1668A	0.000809 U	0.00107 J	0.000778 U	0.00367 U	0.00151 U
PCB-040/071	ng/L	E1668A	0.163	0.214	0.0688	0.102	0.114
PCB-041	ng/L	E1668A	0.0162	0.0206	0.00824 J	0.0101	0.0124
PCB-042	ng/L	E1668A	0.0978	0.127	0.0412	0.0597	0.0677
PCB-043	ng/L	E1668A	0.0147	0.0179	0.00572 J	0.00291 U	0.0115
PCB-044/047/065	ng/L	E1668A	0.378	0.473	0.168	0.229	0.264
PCB-045	ng/L	E1668A	0.0555	0.0641	0.024	0.0334	0.0366
PCB-046	ng/L	E1668A	0.0308	0.0355	0.0126	0.0184	0.0212
PCB-048	ng/L	E1668A	0.0455	0.058	0.0201	0.0302	0.0349
PCB-049/069	ng/L	E1668A	0.245	0.303	0.104	0.139	0.156
PCB-050/053	ng/L	E1668A	0.086	0.103	0.0333	0.0524	0.0577
PCB-051	ng/L	E1668A	0.0555	0.0608	0.0242	0.0411	0.0536
PCB-052	ng/L	E1668A	0.429	0.53	0.186	0.256	0.295
PCB-054	ng/L	E1668A	0.00247 J	0.00282 J	0.00137 J	0.00193 U	0.00167 J
PCB-055	ng/L	E1668A	0.00321 J	0.0038 J	0.00133 J	0.00245 U	0.00121 U
PCB-056	ng/L	E1668A	0.113	0.149	0.0452	0.0694	0.0736
PCB-057	ng/L	E1668A	0.00211 J	0.0025 J	0.000652 U	0.00237 U	0.00126 J
PCB-058	ng/L	E1668A	0.000891 J	0.00161 J	0.000637 U	0.00233 U	0.00115 U
PCB-059/062/075	ng/L	E1668A	0.0268	0.0328	0.0117 J	0.0166 J	0.0184 J
PCB-060	ng/L	E1668A	0.0416	0.0606	0.0175	0.0279	0.0278
PCB-061/070/074/076	ng/L	E1668A	0.331	0.287	0.142	0.203	0.229
PCB-063	ng/L	E1668A	0.0114	0.0146	0.00502 J	0.00686 J	0.00763 J
PCB-064	ng/L	E1668A	0.132	0.169	0.0564	0.0816	0.0902
PCB-066	ng/L	E1668A	0.218	0.3	0.0883	0.131	0.147
PCB-067	ng/L	E1668A	0.00663 J	0.00859	0.00234 J	0.00345 J	0.00453 J
PCB-068	ng/L	E1668A	0.0241	0.0232	0.0167	0.0266	0.0316
PCB-072	ng/L	E1668A	0.00256 J	0.00346 J	0.00105 J	0.00227 U	0.00167 J
PCB-073	ng/L	E1668A	0.000842 J	0.00135 J	0.000711 J	0.00171 U	0.000835 U
PCB-077	ng/L	E1668A	0.0211	0.0288	0.0081 J	0.0129	0.014
PCB-078	ng/L	E1668A	0.000793 U	0.000711 U	0.000723 U	0.00252 U	0.00124 U
PCB-079	ng/L	E1668A	0.00167 J	0.00271 J	0.000891 J	0.00202 U	0.000998 U
PCB-080	ng/L	E1668A	0.00066 U	0.000592 U	0.000587 U	0.00209 U	0.00103 U
PCB-081	ng/L	E1668A	0.0013 J	0.00152 J	0.000718 U	0.00253 U	0.00125 U
PCB-082	ng/L	E1668A	0.0255	0.0376	0.0125	0.015	0.0174

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
Sample Date	Sample Type	X	Y				
PCB-083	ng/L	E1668A	0.0114	0.0148	0.00489 J	0.00419 J	0.00583 J
PCB-084	ng/L	E1668A	0.0558	0.0754	0.0259	0.0315	0.0367
PCB-085/116	ng/L	E1668A	0.036	0.0501	0.0139 J	0.0173	0.0218
PCB-086/087/097/108/119/125	ng/L	E1668A	0.106	0.143	0.0503 J	0.0623	0.0646
PCB-088	ng/L	E1668A	0.000713 U	0.000771 U	0.000836 U	0.0019 U	0.000776 U
PCB-089	ng/L	E1668A	0.0052 J	0.00714 J	0.00205 J	0.00199 U	0.000813 U
PCB-090/101/113	ng/L	E1668A	0.122	0.167	0.0598	0.0699	0.0764
PCB-091	ng/L	E1668A	0.0293	0.0402	0.0141	0.0173	0.019
PCB-092	ng/L	E1668A	0.0261	0.0355	0.0125	0.0156	0.0154
PCB-093/100	ng/L	E1668A	0.00324 J	0.00361 J	0.00151 J	0.00176 U	0.00159 J
PCB-094	ng/L	E1668A	0.00207 J	0.00277 J	0.000833 U	0.00191 U	0.000781 U
PCB-095	ng/L	E1668A	0.106	0.145	0.0565	0.0664	0.0712
PCB-096	ng/L	E1668A	0.00365 J	0.00536 J	0.00156 J	0.00257 J	0.00285 J
PCB-098	ng/L	E1668A	0.000752	0.00128 J	0.000911 U	0.00173 U	0.000709 U
PCB-099	ng/L	E1668A	0.0783	0.108	0.0371	0.0459	0.0493
PCB-102	ng/L	E1668A	0.00795 J	0.0111	0.00359 J	0.00444 J	0.00681 J
PCB-103	ng/L	E1668A	0.0015 J	0.00213 J	0.000699 U	0.0016 U	0.000655 U
PCB-104	ng/L	E1668A	0.000208 U	0.00017 U	0.000363 U	0.00116 U	0.000564 U
PCB-105	ng/L	E1668A	0.0497	0.0719	0.0234	0.029	0.032
PCB-106	ng/L	E1668A	0.00156 J	0.00142 J	0.000615 U	0.00138 U	0.000565 U
PCB-107/124	ng/L	E1668A	0.00444 J	0.00606 J	0.00247 J	0.00138 U	0.000564 U
PCB-109	ng/L	E1668A	0.00898	0.0126	0.00445 J	0.0012 U	0.00604 J
PCB-110	ng/L	E1668A	0.158	0.219	0.0739	0.0923	0.102
PCB-111	ng/L	E1668A	0.000459 U	0.000497 U	0.00055 U	0.00125 U	0.000512 U
PCB-112	ng/L	E1668A	0.000604 J	0.000943 J	0.000566 U	0.00131 U	0.000534 U
PCB-114	ng/L	E1668A	0.00283 J	0.00412 J	0.0015 J	0.00129 U	0.002 J
PCB-115	ng/L	E1668A	0.00431 J	0.00442 J	0.00225 J	0.0013 U	0.000531 U
PCB-117	ng/L	E1668A	0.00317 J	0.00591 J	0.00348 J	0.00246 J	0.000581 U
PCB-118	ng/L	E1668A	0.097	0.136	0.0459	0.0635	0.0651
PCB-120	ng/L	E1668A	0.000453 U	0.00049 J	0.000541 U	0.00124 U	0.000508 U
PCB-121	ng/L	E1668A	0.000463 U	0.000501 U	0.000543 U	0.00125 U	0.000512 U
PCB-122	ng/L	E1668A	0.00188 J	0.00307 J	0.000968 J	0.00154 U	0.000618 U
PCB-123	ng/L	E1668A	0.00299 J	0.00391 J	0.00116 J	0.00127 U	0.00194 J
PCB-126	ng/L	E1668A	0.000751 U	0.000921 J	0.000633 U	0.00164 U	0.000872 U
PCB-127	ng/L	E1668A	0.000475 U	0.000537 U	0.000602 U	0.00148 U	0.000543 U
PCB-128/166	ng/L	E1668A	0.00943 J	0.0117 J	0.00502 J	0.00547 J	0.00486 J

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
Sample Date	Sample Type	X	Y				
PCB-129/138/163	ng/L	E1668A	0.0559	0.0724	0.0323	0.0362	0.0362
PCB-130	ng/L	E1668A	0.0042 J	0.00576 J	0.00192 J	0.00194 U	0.00257 J
PCB-131	ng/L	E1668A	0.00087 J	0.00129 J	0.000706 J	0.00187 U	0.000728 U
PCB-132	ng/L	E1668A	0.0171	0.0247	0.0109	0.0108	0.0124
PCB-133	ng/L	E1668A	0.00095 J	0.00106 J	0.000634 J	0.0017 U	0.000665 U
PCB-134	ng/L	E1668A	0.0028 J	0.00378 J	0.00234 J	0.00222 U	0.00249 J
PCB-135/151	ng/L	E1668A	0.015 J	0.0191	0.00919 J	0.0101 J	0.0102 J
PCB-136	ng/L	E1668A	0.00655 J	0.00964	0.00417 U	0.00498 J	0.00472 J
PCB-137	ng/L	E1668A	0.0034 J	0.00409 J	0.00141 J	0.00153 U	0.00274 J
PCB-139/140	ng/L	E1668A	0.0011 J	0.00159 J	0.000835 J	0.00157 U	0.000938 J
PCB-141	ng/L	E1668A	0.00812 J	0.0109	0.00467 J	0.00515 J	0.00566 J
PCB-142	ng/L	E1668A	0.000332 U	0.000257 U	0.000471 U	0.0019 U	0.000742 U
PCB-143	ng/L	E1668A	0.000444 J	0.000483 J	0.000395 U	0.00161 U	0.000628 U
PCB-144	ng/L	E1668A	0.00222 J	0.00277 J	0.00121 J	0.0016 U	0.000626 U
PCB-145	ng/L	E1668A	0.000213 U	0.000159 U	0.0003 U	0.00125 U	0.000485 U
PCB-146	ng/L	E1668A	0.00746 J	0.00947	0.00465 J	0.00471 U	0.00476 U
PCB-147/149	ng/L	E1668A	0.0366	0.0475	0.0206 J	0.0225	0.0243
PCB-148	ng/L	E1668A	0.000274 U	0.000213 U	0.000388 U	0.00159 U	0.000619 U
PCB-150	ng/L	E1668A	0.000201 U	0.00015 U	0.000281 U	0.00117 U	0.000454 U
PCB-152	ng/L	E1668A	0.000205 U	0.00025 J	0.000284 U	0.00121 U	0.000469 U
PCB-153/168	ng/L	E1668A	0.037	0.0486	0.021	0.0235	0.0257
PCB-154	ng/L	E1668A	0.00061 J	0.001 J	0.00035 U	0.0014 U	0.000547 U
PCB-155	ng/L	E1668A	0.000615 J	0.000818 J	0.00064 J	0.00104 U	0.000401 U
PCB-156/157	ng/L	E1668A	0.00603 J	0.00807 J	0.00358 J	0.00387 J	0.00337 J
PCB-158	ng/L	E1668A	0.00531 J	0.00696 J	0.00304 J	0.00377 J	0.00385 J
PCB-159	ng/L	E1668A	0.000351 J	0.000458 J	0.000375 U	0.00139 U	0.000519 U
PCB-160	ng/L	E1668A	0.000227 U	0.000176 U	0.000335 U	0.00135 U	0.000525 U
PCB-161	ng/L	E1668A	0.000214 U	0.000166 U	0.000308 U	0.00124 U	0.000482 U
PCB-162	ng/L	E1668A	0.000283 J	0.000264 U	0.000378 U	0.00137 U	0.000513 U
PCB-164	ng/L	E1668A	0.00316 J	0.00412 J	0.00179 J	0.00126 U	0.00213 J
PCB-165	ng/L	E1668A	0.000233 U	0.000181 U	0.000333 U	0.00132 U	0.000516 U
PCB-167	ng/L	E1668A	0.00177 J	0.00273 J	0.00116 J	0.00128 U	0.0015 J
PCB-169	ng/L	E1668A	0.000254 U	0.000281 U	0.000435 U	0.00132 U	0.000524 U
PCB-170	ng/L	E1668A	0.00703 J	0.00954	0.00363 J	0.00379 J	0.00401 J
PCB-171/173	ng/L	E1668A	0.00242 J	0.00295 J	0.00122 J	0.00169 U	0.00212 J
PCB-172	ng/L	E1668A	0.00143 J	0.00183 J	0.000637 U	0.00164 U	0.00112 J



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Location ID			PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD	
Sample ID			PB093_A-1SWMID-140318-N	PB095-1SWMID-140318-N	PB097_A-1SWMID-140314-N	PB099-1SWMID-140319-N	PB099-1SWMID-140319-MD	
Sample Date			03/18/2014	03/18/2014	03/14/2014	03/19/2014	03/19/2014	
Sample Type			N	N	N	N	FD	
X			3200967.69985	3201056.9615	3201111.78081	3201139.93874	3201138.73978	
Y			13828915.1377	13828738.307	13828556.6898	13828443.8494	13828426.2285	
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		0.3067325 J	0.2922745 J	0.164165 J	0.2473	0.22062 J	
Total Dichlorobiphenyl homologs (U = 0)	ng/L		0.292696 J	0.27889 J	0.15006 J	0.2252	0.20749 J	
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		1.544164 J	1.729999 J	0.7710685 J	1.08744 J	1.093005	
Total Trichlorobiphenyl homologs (U = 0)	ng/L		1.54246 J	1.72875 J	0.76943 J	1.0739 J	1.0872	
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		2.5584095 J	3.1009115 J	1.0964305 J	1.563175 J	1.7768165 J	
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		2.557683 J	3.10026 J	1.094772 J	1.55061 J	1.77296 J	
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		0.957987 J	1.321992 J	0.459524 J	0.55445 J	0.603279 J	
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		0.956226 J	1.320754 J	0.455678 J	0.53966 J	0.59796 J	
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		0.2283495 J	0.3001625 J	0.1319965 J	0.14576 J	0.1507295 J	
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		0.227273 J	0.299239 J	0.127595 J	0.12634 J	0.143628 J	
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		0.0646885 J	0.085801 J	0.036284 J	0.04099 J	0.048844 J	
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		0.063375 J	0.085114 J	0.033746 J	0.02966 J	0.045161 J	
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		0.0164125 J	0.0233695 J	0.0103035 J	0.00235 U	0.015787 J	
Total Octachlorobiphenyl homologs (U = 0)	ng/L		0.015991 J	0.023093 J	0.008772 J	0.00235 U	0.01394 J	
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		0.003353 J	0.0036345 J	0.00166 U	0.00505 U	0.00259 U	
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		0.003037 J	0.00329 J	0.00166 U	0.00505 U	0.00259 U	
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		0.00456 J	0.00517 J	0.00281 J	0.00241 U	0.00295 U	
Total Decachlorobiphenyl homologs (U = 0)	ng/L		0.00456 J	0.00517 J	0.00281 J	0.00241 U	0.00295 U	
Total PCB Congener (U = 1/2)	ng/L		5.7034965 J	6.8817245 J	2.691169 J	3.685305 J	3.933856 J	
Total PCB Congener (U = 0)	ng/L		5.679611 J	6.86014 J	2.659663 J	3.5746 J	3.888759 J	
<b>PCB Congeners, Dissolved (ng/L)</b>								
PCB-001	ng/L	E1668A	--	--	--	--	--	--
PCB-002	ng/L	E1668A	--	--	--	--	--	--
PCB-003	ng/L	E1668A	--	--	--	--	--	--
PCB-004	ng/L	E1668A	--	--	--	--	--	--
PCB-005	ng/L	E1668A	--	--	--	--	--	--
PCB-006	ng/L	E1668A	--	--	--	--	--	--
PCB-007	ng/L	E1668A	--	--	--	--	--	--
PCB-008	ng/L	E1668A	--	--	--	--	--	--
PCB-009	ng/L	E1668A	--	--	--	--	--	--
PCB-010	ng/L	E1668A	--	--	--	--	--	--
PCB-011	ng/L	E1668A	--	--	--	--	--	--
PCB-012/013	ng/L	E1668A	--	--	--	--	--	--
PCB-014	ng/L	E1668A	--	--	--	--	--	--
PCB-015	ng/L	E1668A	--	--	--	--	--	--
PCB-016	ng/L	E1668A	--	--	--	--	--	--



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
			Location ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
			Sample ID	PB093_A-1SWMID-140318-N	PB095-1SWMID-140318-N	PB097_A-1SWMID-140314-N	PB099-1SWMID-140319-N	PB099-1SWMID-140319-MD
			Sample Date	03/18/2014	03/18/2014	03/14/2014	03/19/2014	03/19/2014
			Sample Type	N	N	N	N	FD
			X	3200967.69985	3201056.9615	3201111.78081	3201139.93874	3201138.73978
			Y	13828915.1377	13828738.307	13828556.6898	13828443.8494	13828426.2285
PCB-017	ng/L	E1668A	--	--	--	--	--	--
PCB-018/030	ng/L	E1668A	--	--	--	--	--	--
PCB-019	ng/L	E1668A	--	--	--	--	--	--
PCB-020/028	ng/L	E1668A	--	--	--	--	--	--
PCB-021/033	ng/L	E1668A	--	--	--	--	--	--
PCB-022	ng/L	E1668A	--	--	--	--	--	--
PCB-023	ng/L	E1668A	--	--	--	--	--	--
PCB-024	ng/L	E1668A	--	--	--	--	--	--
PCB-025	ng/L	E1668A	--	--	--	--	--	--
PCB-026/029	ng/L	E1668A	--	--	--	--	--	--
PCB-027	ng/L	E1668A	--	--	--	--	--	--
PCB-031	ng/L	E1668A	--	--	--	--	--	--
PCB-032	ng/L	E1668A	--	--	--	--	--	--
PCB-034	ng/L	E1668A	--	--	--	--	--	--
PCB-035	ng/L	E1668A	--	--	--	--	--	--
PCB-036	ng/L	E1668A	--	--	--	--	--	--
PCB-037	ng/L	E1668A	--	--	--	--	--	--
PCB-038	ng/L	E1668A	--	--	--	--	--	--
PCB-039	ng/L	E1668A	--	--	--	--	--	--
PCB-040/071	ng/L	E1668A	--	--	--	--	--	--
PCB-041	ng/L	E1668A	--	--	--	--	--	--
PCB-042	ng/L	E1668A	--	--	--	--	--	--
PCB-043	ng/L	E1668A	--	--	--	--	--	--
PCB-044/047/065	ng/L	E1668A	--	--	--	--	--	--
PCB-045	ng/L	E1668A	--	--	--	--	--	--
PCB-046	ng/L	E1668A	--	--	--	--	--	--
PCB-048	ng/L	E1668A	--	--	--	--	--	--
PCB-049/069	ng/L	E1668A	--	--	--	--	--	--
PCB-050/053	ng/L	E1668A	--	--	--	--	--	--
PCB-051	ng/L	E1668A	--	--	--	--	--	--
PCB-052	ng/L	E1668A	--	--	--	--	--	--
PCB-054	ng/L	E1668A	--	--	--	--	--	--
PCB-055	ng/L	E1668A	--	--	--	--	--	--
PCB-056	ng/L	E1668A	--	--	--	--	--	--
PCB-057	ng/L	E1668A	--	--	--	--	--	--
PCB-058	ng/L	E1668A	--	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
Sample Date	Sample Type	X	Y				
PCB-059/062/075	ng/L	E1668A	--	--	--	--	--
PCB-060	ng/L	E1668A	--	--	--	--	--
PCB-061/070/074/076	ng/L	E1668A	--	--	--	--	--
PCB-063	ng/L	E1668A	--	--	--	--	--
PCB-064	ng/L	E1668A	--	--	--	--	--
PCB-066	ng/L	E1668A	--	--	--	--	--
PCB-067	ng/L	E1668A	--	--	--	--	--
PCB-068	ng/L	E1668A	--	--	--	--	--
PCB-072	ng/L	E1668A	--	--	--	--	--
PCB-073	ng/L	E1668A	--	--	--	--	--
PCB-077	ng/L	E1668A	--	--	--	--	--
PCB-078	ng/L	E1668A	--	--	--	--	--
PCB-079	ng/L	E1668A	--	--	--	--	--
PCB-080	ng/L	E1668A	--	--	--	--	--
PCB-081	ng/L	E1668A	--	--	--	--	--
PCB-082	ng/L	E1668A	--	--	--	--	--
PCB-083	ng/L	E1668A	--	--	--	--	--
PCB-084	ng/L	E1668A	--	--	--	--	--
PCB-085/116	ng/L	E1668A	--	--	--	--	--
PCB-086/087/097/108/119/125	ng/L	E1668A	--	--	--	--	--
PCB-088	ng/L	E1668A	--	--	--	--	--
PCB-089	ng/L	E1668A	--	--	--	--	--
PCB-090/101/113	ng/L	E1668A	--	--	--	--	--
PCB-091	ng/L	E1668A	--	--	--	--	--
PCB-092	ng/L	E1668A	--	--	--	--	--
PCB-093/100	ng/L	E1668A	--	--	--	--	--
PCB-094	ng/L	E1668A	--	--	--	--	--
PCB-095	ng/L	E1668A	--	--	--	--	--
PCB-096	ng/L	E1668A	--	--	--	--	--
PCB-098	ng/L	E1668A	--	--	--	--	--
PCB-099	ng/L	E1668A	--	--	--	--	--
PCB-102	ng/L	E1668A	--	--	--	--	--
PCB-103	ng/L	E1668A	--	--	--	--	--
PCB-104	ng/L	E1668A	--	--	--	--	--
PCB-105	ng/L	E1668A	--	--	--	--	--
PCB-106	ng/L	E1668A	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
			Location ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
			Sample ID	PB093_A-1SWMID-140318-N	PB095-1SWMID-140318-N	PB097_A-1SWMID-140314-N	PB099-1SWMID-140319-N	PB099-1SWMID-140319-MD
			Sample Date	03/18/2014	03/18/2014	03/14/2014	03/19/2014	03/19/2014
			Sample Type	N	N	N	N	FD
			X	3200967.69985	3201056.9615	3201111.78081	3201139.93874	3201138.73978
			Y	13828915.1377	13828738.307	13828556.6898	13828443.8494	13828426.2285
PCB-107/124	ng/L	E1668A	--	--	--	--	--	
PCB-109	ng/L	E1668A	--	--	--	--	--	
PCB-110	ng/L	E1668A	--	--	--	--	--	
PCB-111	ng/L	E1668A	--	--	--	--	--	
PCB-112	ng/L	E1668A	--	--	--	--	--	
PCB-114	ng/L	E1668A	--	--	--	--	--	
PCB-115	ng/L	E1668A	--	--	--	--	--	
PCB-117	ng/L	E1668A	--	--	--	--	--	
PCB-118	ng/L	E1668A	--	--	--	--	--	
PCB-120	ng/L	E1668A	--	--	--	--	--	
PCB-121	ng/L	E1668A	--	--	--	--	--	
PCB-122	ng/L	E1668A	--	--	--	--	--	
PCB-123	ng/L	E1668A	--	--	--	--	--	
PCB-126	ng/L	E1668A	--	--	--	--	--	
PCB-127	ng/L	E1668A	--	--	--	--	--	
PCB-128/166	ng/L	E1668A	--	--	--	--	--	
PCB-129/138/163	ng/L	E1668A	--	--	--	--	--	
PCB-130	ng/L	E1668A	--	--	--	--	--	
PCB-131	ng/L	E1668A	--	--	--	--	--	
PCB-132	ng/L	E1668A	--	--	--	--	--	
PCB-133	ng/L	E1668A	--	--	--	--	--	
PCB-134	ng/L	E1668A	--	--	--	--	--	
PCB-135/151	ng/L	E1668A	--	--	--	--	--	
PCB-136	ng/L	E1668A	--	--	--	--	--	
PCB-137	ng/L	E1668A	--	--	--	--	--	
PCB-139/140	ng/L	E1668A	--	--	--	--	--	
PCB-141	ng/L	E1668A	--	--	--	--	--	
PCB-142	ng/L	E1668A	--	--	--	--	--	
PCB-143	ng/L	E1668A	--	--	--	--	--	
PCB-144	ng/L	E1668A	--	--	--	--	--	
PCB-145	ng/L	E1668A	--	--	--	--	--	
PCB-146	ng/L	E1668A	--	--	--	--	--	
PCB-147/149	ng/L	E1668A	--	--	--	--	--	
PCB-148	ng/L	E1668A	--	--	--	--	--	
PCB-150	ng/L	E1668A	--	--	--	--	--	
PCB-152	ng/L	E1668A	--	--	--	--	--	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
Task	Location ID	Sample ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
Sample Date	Sample Type	X	Y				
PCB-153/168	ng/L	E1668A	--	--	--	--	--
PCB-154	ng/L	E1668A	--	--	--	--	--
PCB-155	ng/L	E1668A	--	--	--	--	--
PCB-156/157	ng/L	E1668A	--	--	--	--	--
PCB-158	ng/L	E1668A	--	--	--	--	--
PCB-159	ng/L	E1668A	--	--	--	--	--
PCB-160	ng/L	E1668A	--	--	--	--	--
PCB-161	ng/L	E1668A	--	--	--	--	--
PCB-162	ng/L	E1668A	--	--	--	--	--
PCB-164	ng/L	E1668A	--	--	--	--	--
PCB-165	ng/L	E1668A	--	--	--	--	--
PCB-167	ng/L	E1668A	--	--	--	--	--
PCB-169	ng/L	E1668A	--	--	--	--	--
PCB-170	ng/L	E1668A	--	--	--	--	--
PCB-171/173	ng/L	E1668A	--	--	--	--	--
PCB-172	ng/L	E1668A	--	--	--	--	--
PCB-174	ng/L	E1668A	--	--	--	--	--
PCB-175	ng/L	E1668A	--	--	--	--	--
PCB-176	ng/L	E1668A	--	--	--	--	--
PCB-177	ng/L	E1668A	--	--	--	--	--
PCB-178	ng/L	E1668A	--	--	--	--	--
PCB-179	ng/L	E1668A	--	--	--	--	--
PCB-180/193	ng/L	E1668A	--	--	--	--	--
PCB-181	ng/L	E1668A	--	--	--	--	--
PCB-182	ng/L	E1668A	--	--	--	--	--
PCB-183	ng/L	E1668A	--	--	--	--	--
PCB-184	ng/L	E1668A	--	--	--	--	--
PCB-185	ng/L	E1668A	--	--	--	--	--
PCB-186	ng/L	E1668A	--	--	--	--	--
PCB-187	ng/L	E1668A	--	--	--	--	--
PCB-188	ng/L	E1668A	--	--	--	--	--
PCB-189	ng/L	E1668A	--	--	--	--	--
PCB-190	ng/L	E1668A	--	--	--	--	--
PCB-191	ng/L	E1668A	--	--	--	--	--
PCB-192	ng/L	E1668A	--	--	--	--	--
PCB-194	ng/L	E1668A	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater	2014SurfaceWater
			Location ID	PB093_A_201403	PB095_201403	PB097_A_201403	PB099_201403	PB099_201403_MD
			Sample ID	PB093_A-1SWMID-140318-N	PB095-1SWMID-140318-N	PB097_A-1SWMID-140314-N	PB099-1SWMID-140319-N	PB099-1SWMID-140319-MD
			Sample Date	03/18/2014	03/18/2014	03/14/2014	03/19/2014	03/19/2014
			Sample Type	N	N	N	N	FD
			X	3200967.69985	3201056.9615	3201111.78081	3201139.93874	3201138.73978
			Y	13828915.1377	13828738.307	13828556.6898	13828443.8494	13828426.2285
PCB-195	ng/L	E1668A	--	--	--	--	--	--
PCB-196	ng/L	E1668A	--	--	--	--	--	--
PCB-197	ng/L	E1668A	--	--	--	--	--	--
PCB-198/199	ng/L	E1668A	--	--	--	--	--	--
PCB-200	ng/L	E1668A	--	--	--	--	--	--
PCB-201	ng/L	E1668A	--	--	--	--	--	--
PCB-202	ng/L	E1668A	--	--	--	--	--	--
PCB-203	ng/L	E1668A	--	--	--	--	--	--
PCB-204	ng/L	E1668A	--	--	--	--	--	--
PCB-205	ng/L	E1668A	--	--	--	--	--	--
PCB-206	ng/L	E1668A	--	--	--	--	--	--
PCB-207	ng/L	E1668A	--	--	--	--	--	--
PCB-208	ng/L	E1668A	--	--	--	--	--	--
PCB-209	ng/L	E1668A	--	--	--	--	--	--
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Monochlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Dichlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Trichlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Octachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		--	--	--	--	--	--
Total Decachlorobiphenyl homologs (U = 0)	ng/L		--	--	--	--	--	--
Total PCB Congener (U = 1/2)	ng/L		--	--	--	--	--	--
Total PCB Congener (U = 0)	ng/L		--	--	--	--	--	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>				
	Task		2014SurfaceWater	2014SurfaceWater
	Location ID		PB-101.1_201403	PB-119_B_201403
	Sample ID		PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
	Sample Date		03/19/2014	03/13/2014
	Sample Type		N	N
	X		3201247.13475	3201529.19757
	Y		13828263.2413	13826349.5712
<b>Conventional Parameters (mg/L)</b>				
Total suspended solids	mg/L	SM2540D	7 J	7 J
Dissolved organic carbon	mg/L	SW9060	10.9	--
Total organic carbon	mg/L	SW9060	10.9	8.12
<b>PCB Congeners (ng/L)</b>				
PCB-001	ng/L	E1668A	0.0151	0.0017 U
PCB-002	ng/L	E1668A	0.00373 J	0.00149 U
PCB-003	ng/L	E1668A	0.00712 J	0.00165 U
PCB-004	ng/L	E1668A	0.0744	0.00704 J
PCB-005	ng/L	E1668A	0.00156 U	0.00154 U
PCB-006	ng/L	E1668A	0.0298	0.00154 U
PCB-007	ng/L	E1668A	0.00145 U	0.00142 U
PCB-008	ng/L	E1668A	0.0251	0.00147 U
PCB-009	ng/L	E1668A	0.00165 U	0.00162 U
PCB-010	ng/L	E1668A	0.00194 U	0.00157 U
PCB-011	ng/L	E1668A	0.0269 U	0.015 U
PCB-012/013	ng/L	E1668A	0.00863 J	0.00148 U
PCB-014	ng/L	E1668A	0.0013 U	0.00128 U
PCB-015	ng/L	E1668A	0.0194	0.0083 J
PCB-016	ng/L	E1668A	0.0598	0.00694 J
PCB-017	ng/L	E1668A	0.0788	0.0113
PCB-018/030	ng/L	E1668A	0.163	0.0135 J
PCB-019	ng/L	E1668A	0.0367	0.00254 U
PCB-020/028	ng/L	E1668A	0.15	0.0149 J
PCB-021/033	ng/L	E1668A	0.0256	0.00324 J
PCB-022	ng/L	E1668A	0.0388	0.00333 J
PCB-023	ng/L	E1668A	0.00162 U	0.00152 U
PCB-024	ng/L	E1668A	0.00223 U	0.0017 U
PCB-025	ng/L	E1668A	0.0468	0.00458 J
PCB-026/029	ng/L	E1668A	0.0393	0.00275 J
PCB-027	ng/L	E1668A	0.014	0.00162 U
PCB-031	ng/L	E1668A	0.122	0.0122
PCB-032	ng/L	E1668A	0.0797	0.00463 J
PCB-034	ng/L	E1668A	0.00164 U	0.00154 U
PCB-035	ng/L	E1668A	0.00174 U	0.00162 U
PCB-036	ng/L	E1668A	0.00152 U	0.00146 U

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-037	ng/L	E1668A	<b>0.0234</b>	<b>0.00791 J</b>	
PCB-038	ng/L	E1668A	0.00168 U	0.00155 U	
PCB-039	ng/L	E1668A	0.00151 U	0.00141 U	
PCB-040/071	ng/L	E1668A	<b>0.106</b>	<b>0.00771 J</b>	
PCB-041	ng/L	E1668A	<b>0.0144</b>	0.00107 U	
PCB-042	ng/L	E1668A	<b>0.0626</b>	<b>0.00373 J</b>	
PCB-043	ng/L	E1668A	<b>0.00959 J</b>	0.00105 U	
PCB-044/047/065	ng/L	E1668A	<b>0.243</b>	<b>0.0336</b>	
PCB-045	ng/L	E1668A	<b>0.0398</b>	0.000975 U	
PCB-046	ng/L	E1668A	<b>0.0181</b>	0.00109 U	
PCB-048	ng/L	E1668A	<b>0.033</b>	<b>0.00309 J</b>	
PCB-049/069	ng/L	E1668A	<b>0.142</b>	0.0092 U	
PCB-050/053	ng/L	E1668A	<b>0.0462</b>	<b>0.00213 J</b>	
PCB-051	ng/L	E1668A	<b>0.0346</b>	<b>0.0263</b>	
PCB-052	ng/L	E1668A	<b>0.255</b>	<b>0.0235</b>	
PCB-054	ng/L	E1668A	<b>0.000983 J</b>	0.000678 U	
PCB-055	ng/L	E1668A	0.00152 U	0.0014 U	
PCB-056	ng/L	E1668A	<b>0.072</b>	<b>0.00452 J</b>	
PCB-057	ng/L	E1668A	0.00149 U	0.00134 U	
PCB-058	ng/L	E1668A	0.00142 U	0.00132 U	
PCB-059/062/075	ng/L	E1668A	<b>0.0174 J</b>	0.000645 U	
PCB-060	ng/L	E1668A	<b>0.0294</b>	<b>0.00297 J</b>	
PCB-061/070/074/076	ng/L	E1668A	<b>0.215</b>	<b>0.0234 J</b>	
PCB-063	ng/L	E1668A	<b>0.00716 J</b>	0.00119 U	
PCB-064	ng/L	E1668A	<b>0.083</b>	<b>0.0061 J</b>	
PCB-066	ng/L	E1668A	<b>0.134</b>	<b>0.00886 J</b>	
PCB-067	ng/L	E1668A	<b>0.00437 J</b>	0.00125 U	
PCB-068	ng/L	E1668A	<b>0.024</b>	<b>0.0301</b>	
PCB-072	ng/L	E1668A	0.00141 U	0.00127 U	
PCB-073	ng/L	E1668A	0.000971 U	0.000681 U	
PCB-077	ng/L	E1668A	<b>0.0134</b>	<b>0.00349 J</b>	
PCB-078	ng/L	E1668A	0.00157 U	0.00145 U	
PCB-079	ng/L	E1668A	<b>0.0032 J</b>	0.00123 U	
PCB-080	ng/L	E1668A	0.00128 U	0.00117 U	
PCB-081	ng/L	E1668A	0.00156 U	0.00144 U	
PCB-082	ng/L	E1668A	<b>0.0188</b>	0.00142 U	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-083	ng/L	E1668A	<b>0.0087 J</b>	0.00149 U	
PCB-084	ng/L	E1668A	<b>0.0378</b>	<b>0.00543 J</b>	
PCB-085/116	ng/L	E1668A	<b>0.0223</b>	<b>0.00264 J</b>	
PCB-086/087/097/108/119/125	ng/L	E1668A	<b>0.0753</b>	<b>0.0128 J</b>	
PCB-088	ng/L	E1668A	0.0014 U	0.00117 U	
PCB-089	ng/L	E1668A	<b>0.00509 J</b>	0.00126 U	
PCB-090/101/113	ng/L	E1668A	<b>0.0844</b>	0.0193 U	
PCB-091	ng/L	E1668A	<b>0.0215</b>	<b>0.00295 J</b>	
PCB-092	ng/L	E1668A	<b>0.0152 J</b>	<b>0.00334 J</b>	
PCB-093/100	ng/L	E1668A	0.00135 U	0.00113 U	
PCB-094	ng/L	E1668A	0.00147 U	0.00123 U	
PCB-095	ng/L	E1668A	<b>0.078</b>	0.016 U	
PCB-096	ng/L	E1668A	<b>0.00302 J</b>	0.000742 U	
PCB-098	ng/L	E1668A	0.00134 U	0.00115 U	
PCB-099	ng/L	E1668A	<b>0.0468</b>	<b>0.00809 J</b>	
PCB-102	ng/L	E1668A	<b>0.00672 J</b>	0.00112 U	
PCB-103	ng/L	E1668A	0.00123 U	0.00103 U	
PCB-104	ng/L	E1668A	0.000505 U	0.000604 U	
PCB-105	ng/L	E1668A	<b>0.0326</b>	<b>0.00426 J</b>	
PCB-106	ng/L	E1668A	<b>0.0014 J</b>	0.00091 U	
PCB-107/124	ng/L	E1668A	<b>0.00278 J</b>	0.000897 U	
PCB-109	ng/L	E1668A	<b>0.00572 J</b>	0.000807 U	
PCB-110	ng/L	E1668A	<b>0.104</b>	<b>0.0204</b>	
PCB-111	ng/L	E1668A	0.000946 U	0.00082 U	
PCB-112	ng/L	E1668A	0.00101 U	0.000852 U	
PCB-114	ng/L	E1668A	<b>0.00202 J</b>	0.000788 U	
PCB-115	ng/L	E1668A	0.00102 U	0.000879 U	
PCB-117	ng/L	E1668A	<b>0.00275 J</b>	0.000906 U	
PCB-118	ng/L	E1668A	<b>0.0633</b>	<b>0.0132</b>	
PCB-120	ng/L	E1668A	0.000949 U	0.000807 U	
PCB-121	ng/L	E1668A	0.000961 U	0.000809 U	
PCB-122	ng/L	E1668A	0.00115 U	0.000939 U	
PCB-123	ng/L	E1668A	<b>0.0016 J</b>	0.000814 U	
PCB-126	ng/L	E1668A	0.00117 U	0.0016 U	
PCB-127	ng/L	E1668A	0.00105 U	0.00089 U	
PCB-128/166	ng/L	E1668A	<b>0.00644 J</b>	<b>0.00284 J</b>	



**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-129/138/163	ng/L	E1668A	<b>0.0383</b>	<b>0.0169 J</b>	
PCB-130	ng/L	E1668A	<b>0.00334 J</b>	0.00102 U	
PCB-131	ng/L	E1668A	0.000899 U	0.000981 U	
PCB-132	ng/L	E1668A	<b>0.013</b>	<b>0.00517 J</b>	
PCB-133	ng/L	E1668A	0.000813 U	0.000892 U	
PCB-134	ng/L	E1668A	0.00101 U	0.00114 U	
PCB-135/151	ng/L	E1668A	<b>0.0115 J</b>	<b>0.00743 J</b>	
PCB-136	ng/L	E1668A	<b>0.00452 J</b>	<b>0.00261 J</b>	
PCB-137	ng/L	E1668A	<b>0.00209 J</b>	0.000806 U	
PCB-139/140	ng/L	E1668A	0.000746 U	0.000834 U	
PCB-141	ng/L	E1668A	<b>0.00639 J</b>	<b>0.00327 J</b>	
PCB-142	ng/L	E1668A	0.000897 U	0.001 U	
PCB-143	ng/L	E1668A	0.000783 U	0.000846 U	
PCB-144	ng/L	E1668A	0.000758 U	0.000839 U	
PCB-145	ng/L	E1668A	0.000556 U	0.0006 U	
PCB-146	ng/L	E1668A	0.00537 U	<b>0.00302 J</b>	
PCB-147/149	ng/L	E1668A	<b>0.0286</b>	<b>0.0147 J</b>	
PCB-148	ng/L	E1668A	0.000769 U	0.000824 U	
PCB-150	ng/L	E1668A	0.000523 U	0.000556 U	
PCB-152	ng/L	E1668A	0.000536 U	0.000573 U	
PCB-153/168	ng/L	E1668A	<b>0.027</b>	<b>0.0163 J</b>	
PCB-154	ng/L	E1668A	0.000678 U	0.000737 U	
PCB-155	ng/L	E1668A	0.000457 U	<b>0.0014 J</b>	
PCB-156/157	ng/L	E1668A	<b>0.00393 J</b>	<b>0.00169 J</b>	
PCB-158	ng/L	E1668A	<b>0.00331 J</b>	<b>0.00171 J</b>	
PCB-159	ng/L	E1668A	0.000755 U	0.000592 U	
PCB-160	ng/L	E1668A	0.000594 U	0.000731 U	
PCB-161	ng/L	E1668A	0.000552 U	0.000651 U	
PCB-162	ng/L	E1668A	0.000754 U	0.000594 U	
PCB-164	ng/L	E1668A	<b>0.00243 J</b>	0.000675 U	
PCB-165	ng/L	E1668A	0.000622 U	0.000701 U	
PCB-167	ng/L	E1668A	<b>0.00129 J</b>	0.000547 U	
PCB-169	ng/L	E1668A	0.000735 U	0.000711 U	
PCB-170	ng/L	E1668A	<b>0.00547 J</b>	<b>0.00374 J</b>	
PCB-171/173	ng/L	E1668A	0.00117 U	0.000967 U	
PCB-172	ng/L	E1668A	0.00113 U	0.000924 U	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-174	ng/L	E1668A	<b>0.00557 J</b>	<b>0.00359 J</b>	
PCB-175	ng/L	E1668A	0.00103 U	0.000836 U	
PCB-176	ng/L	E1668A	<b>0.000903 J</b>	0.000639 U	
PCB-177	ng/L	E1668A	<b>0.00434 J</b>	<b>0.00215 J</b>	
PCB-178	ng/L	E1668A	<b>0.0015 J</b>	0.000977 U	
PCB-179	ng/L	E1668A	<b>0.00415 J</b>	<b>0.00293 J</b>	
PCB-180/193	ng/L	E1668A	<b>0.0131 J</b>	<b>0.00983 J</b>	
PCB-181	ng/L	E1668A	0.00102 U	0.000846 U	
PCB-182	ng/L	E1668A	0.000946 U	0.000764 U	
PCB-183	ng/L	E1668A	<b>0.00328 J</b>	<b>0.00269 J</b>	
PCB-184	ng/L	E1668A	<b>0.00221 J</b>	<b>0.00299 J</b>	
PCB-185	ng/L	E1668A	0.00109 U	0.000869 U	
PCB-186	ng/L	E1668A	0.000672 U	0.000682 U	
PCB-187	ng/L	E1668A	<b>0.0112</b>	<b>0.00665 J</b>	
PCB-188	ng/L	E1668A	0.000574 U	0.000581 U	
PCB-189	ng/L	E1668A	0.000822 U	0.000781 U	
PCB-190	ng/L	E1668A	0.000824 U	0.00071 U	
PCB-191	ng/L	E1668A	0.000796 U	0.000677 U	
PCB-192	ng/L	E1668A	0.000853 U	0.000711 U	
PCB-194	ng/L	E1668A	<b>0.00333 J</b>	<b>0.00198 J</b>	
PCB-195	ng/L	E1668A	0.00138 U	0.00152 U	
PCB-196	ng/L	E1668A	<b>0.00248 J</b>	0.00104 U	
PCB-197	ng/L	E1668A	0.000698 U	0.00073 U	
PCB-198/199	ng/L	E1668A	<b>0.00561 J</b>	<b>0.00421 J</b>	
PCB-200	ng/L	E1668A	0.000791 U	0.000733 U	
PCB-201	ng/L	E1668A	0.000727 U	0.000712 U	
PCB-202	ng/L	E1668A	<b>0.00176 J</b>	<b>0.00125 J</b>	
PCB-203	ng/L	E1668A	<b>0.00299 J</b>	<b>0.0022 J</b>	
PCB-204	ng/L	E1668A	0.000765 U	0.000766 U	
PCB-205	ng/L	E1668A	0.00094 U	0.00108 U	
PCB-206	ng/L	E1668A	0.00267 U	0.00337 U	
PCB-207	ng/L	E1668A	0.0017 U	0.00196 U	
PCB-208	ng/L	E1668A	0.00171 U	0.00199 U	
PCB-209	ng/L	E1668A	0.00308 U	<b>0.00249 J</b>	
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.02595 J</b>	0.0017 U	
Total Monochlorobiphenyl homologs (U = 0)	ng/L		<b>0.02595 J</b>	0.0017 U	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L			0.17473 J	0.0288 J
Total Dichlorobiphenyl homologs (U = 0)	ng/L			0.15733 J	0.01534 J
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L			0.88387	0.09276 J
Total Trichlorobiphenyl homologs (U = 0)	ng/L			0.8779	0.08528 J
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L			1.6138135 J	0.1937245 J
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L			1.608203 J	0.1795 J
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L			0.6475755 J	0.103292 J
Total Pentachlorobiphenyl homologs (U = 0)	ng/L			0.6398 J	0.07311 J
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L			0.1615435 J	0.085465 J
Total Hexachlorobiphenyl homologs (U = 0)	ng/L			0.15214 J	0.07704 J
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L			0.0571865 J	0.040052 J
Total Heptachlorobiphenyl homologs (U = 0)	ng/L			0.051723 J	0.03457 J
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L			0.0188205 J	0.0129305 J
Total Octachlorobiphenyl homologs (U = 0)	ng/L			0.01617 J	0.00964 J
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L			0.00267 U	0.00337 U
Total Nonachlorobiphenyl homologs (U = 0)	ng/L			0.00267 U	0.00337 U
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L			0.00308 U	0.00249 J
Total Decachlorobiphenyl homologs (U = 0)	ng/L			0.00308 U	0.00249 J
Total PCB Congener (U = 1/2)	ng/L			3.5880695 J	0.565594 J
Total PCB Congener (U = 0)	ng/L			3.529216 J	0.47697 J
<b>PCB Congeners, Dissolved (ng/L)</b>					
PCB-001	ng/L	E1668A		0.0113	--
PCB-002	ng/L	E1668A		0.00249 J	--
PCB-003	ng/L	E1668A		0.00669 J	--
PCB-004	ng/L	E1668A		0.0528	--
PCB-005	ng/L	E1668A		0.000504 U	--
PCB-006	ng/L	E1668A		0.0211	--
PCB-007	ng/L	E1668A		0.00137 J	--
PCB-008	ng/L	E1668A		0.0199	--
PCB-009	ng/L	E1668A		0.00205 J	--
PCB-010	ng/L	E1668A		0.00197 J	--
PCB-011	ng/L	E1668A		0.022 U	--
PCB-012/013	ng/L	E1668A		0.00784 J	--
PCB-014	ng/L	E1668A		0.000422 U	--
PCB-015	ng/L	E1668A		0.0122	--
PCB-016	ng/L	E1668A		0.0384	--

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-017	ng/L	E1668A	0.0434	--	
PCB-018/030	ng/L	E1668A	0.095	--	
PCB-019	ng/L	E1668A	0.024	--	
PCB-020/028	ng/L	E1668A	0.0664	--	
PCB-021/033	ng/L	E1668A	0.0133 J	--	
PCB-022	ng/L	E1668A	0.0191	--	
PCB-023	ng/L	E1668A	0.000687 U	--	
PCB-024	ng/L	E1668A	0.00116 J	--	
PCB-025	ng/L	E1668A	0.0242	--	
PCB-026/029	ng/L	E1668A	0.019	--	
PCB-027	ng/L	E1668A	0.00851 J	--	
PCB-031	ng/L	E1668A	0.0569	--	
PCB-032	ng/L	E1668A	0.0427	--	
PCB-034	ng/L	E1668A	0.000696 U	--	
PCB-035	ng/L	E1668A	0.000738 U	--	
PCB-036	ng/L	E1668A	0.000644 U	--	
PCB-037	ng/L	E1668A	0.00952	--	
PCB-038	ng/L	E1668A	0.000713 U	--	
PCB-039	ng/L	E1668A	0.000641 U	--	
PCB-040/071	ng/L	E1668A	0.0357	--	
PCB-041	ng/L	E1668A	0.00458 J	--	
PCB-042	ng/L	E1668A	0.0198	--	
PCB-043	ng/L	E1668A	0.00316 J	--	
PCB-044/047/065	ng/L	E1668A	0.0827	--	
PCB-045	ng/L	E1668A	0.0175	--	
PCB-046	ng/L	E1668A	0.00787 J	--	
PCB-048	ng/L	E1668A	0.0107	--	
PCB-049/069	ng/L	E1668A	0.0438	--	
PCB-050/053	ng/L	E1668A	0.02	--	
PCB-051	ng/L	E1668A	0.0254	--	
PCB-052	ng/L	E1668A	0.0906	--	
PCB-054	ng/L	E1668A	0.000544 J	--	
PCB-055	ng/L	E1668A	0.00047 U	--	
PCB-056	ng/L	E1668A	0.0174	--	
PCB-057	ng/L	E1668A	0.000461 U	--	
PCB-058	ng/L	E1668A	0.000441 U	--	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-059/062/075	ng/L	E1668A	0.00589 J	--	
PCB-060	ng/L	E1668A	0.00686 J	--	
PCB-061/070/074/076	ng/L	E1668A	0.0508	--	
PCB-063	ng/L	E1668A	0.0016 J	--	
PCB-064	ng/L	E1668A	0.0272	--	
PCB-066	ng/L	E1668A	0.0295	--	
PCB-067	ng/L	E1668A	0.00116 J	--	
PCB-068	ng/L	E1668A	0.0243	--	
PCB-072	ng/L	E1668A	0.000438 U	--	
PCB-073	ng/L	E1668A	0.000378 U	--	
PCB-077	ng/L	E1668A	0.00265 J	--	
PCB-078	ng/L	E1668A	0.000487 U	--	
PCB-079	ng/L	E1668A	0.000396 U	--	
PCB-080	ng/L	E1668A	0.000398 U	--	
PCB-081	ng/L	E1668A	0.000483 U	--	
PCB-082	ng/L	E1668A	0.00311 J	--	
PCB-083	ng/L	E1668A	0.00147 J	--	
PCB-084	ng/L	E1668A	0.00936	--	
PCB-085/116	ng/L	E1668A	0.00433 J	--	
PCB-086/087/097/108/119/125	ng/L	E1668A	0.0145 U	--	
PCB-088	ng/L	E1668A	0.000373 U	--	
PCB-089	ng/L	E1668A	0.000863 J	--	
PCB-090/101/113	ng/L	E1668A	0.0172 U	--	
PCB-091	ng/L	E1668A	0.00428 J	--	
PCB-092	ng/L	E1668A	0.00371 J	--	
PCB-093/100	ng/L	E1668A	0.000359 U	--	
PCB-094	ng/L	E1668A	0.00039 U	--	
PCB-095	ng/L	E1668A	0.0195 U	--	
PCB-096	ng/L	E1668A	0.0007 J	--	
PCB-098	ng/L	E1668A	0.000356 U	--	
PCB-099	ng/L	E1668A	0.00858 U	--	
PCB-102	ng/L	E1668A	0.00166 J	--	
PCB-103	ng/L	E1668A	0.000328 U	--	
PCB-104	ng/L	E1668A	0.0002 U	--	
PCB-105	ng/L	E1668A	0.00455 U	--	
PCB-106	ng/L	E1668A	0.000264 U	--	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-107/124	ng/L	E1668A	0.000545 J	--	
PCB-109	ng/L	E1668A	0.000256 U	--	
PCB-110	ng/L	E1668A	0.0215 U	--	
PCB-111	ng/L	E1668A	0.000252 U	--	
PCB-112	ng/L	E1668A	0.00011 J	--	
PCB-114	ng/L	E1668A	0.000442 J	--	
PCB-115	ng/L	E1668A	0.000272 U	--	
PCB-117	ng/L	E1668A	0.000278 U	--	
PCB-118	ng/L	E1668A	0.0102 U	--	
PCB-120	ng/L	E1668A	0.000253 U	--	
PCB-121	ng/L	E1668A	0.000256 U	--	
PCB-122	ng/L	E1668A	0.000298 U	--	
PCB-123	ng/L	E1668A	0.00025 U	--	
PCB-126	ng/L	E1668A	0.000367 U	--	
PCB-127	ng/L	E1668A	0.000268 U	--	
PCB-128/166	ng/L	E1668A	0.00103 J	--	
PCB-129/138/163	ng/L	E1668A	0.00793 U	--	
PCB-130	ng/L	E1668A	0.000376 U	--	
PCB-131	ng/L	E1668A	0.000375 U	--	
PCB-132	ng/L	E1668A	0.00247 U	--	
PCB-133	ng/L	E1668A	0.00034 U	--	
PCB-134	ng/L	E1668A	0.000421 U	--	
PCB-135/151	ng/L	E1668A	0.00317 U	--	
PCB-136	ng/L	E1668A	0.00145 U	--	
PCB-137	ng/L	E1668A	0.00049 J	--	
PCB-139/140	ng/L	E1668A	0.000312 U	--	
PCB-141	ng/L	E1668A	0.00142 J	--	
PCB-142	ng/L	E1668A	0.000375 U	--	
PCB-143	ng/L	E1668A	0.000327 U	--	
PCB-144	ng/L	E1668A	0.000317 U	--	
PCB-145	ng/L	E1668A	0.00023 U	--	
PCB-146	ng/L	E1668A	0.00112 U	--	
PCB-147/149	ng/L	E1668A	0.00631 U	--	
PCB-148	ng/L	E1668A	0.000321 U	--	
PCB-150	ng/L	E1668A	0.000216 U	--	
PCB-152	ng/L	E1668A	0.000221 U	--	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-153/168	ng/L	E1668A	0.00553 U	--	
PCB-154	ng/L	E1668A	0.000283 U	--	
PCB-155	ng/L	E1668A	0.000189 U	--	
PCB-156/157	ng/L	E1668A	<b>0.000706 J</b>	--	
PCB-158	ng/L	E1668A	<b>0.000768 J</b>	--	
PCB-159	ng/L	E1668A	0.000237 U	--	
PCB-160	ng/L	E1668A	0.000248 U	--	
PCB-161	ng/L	E1668A	0.00023 U	--	
PCB-162	ng/L	E1668A	0.000236 U	--	
PCB-164	ng/L	E1668A	<b>0.000537 J</b>	--	
PCB-165	ng/L	E1668A	0.00026 U	--	
PCB-167	ng/L	E1668A	0.000216 U	--	
PCB-169	ng/L	E1668A	0.000238 U	--	
PCB-170	ng/L	E1668A	<b>0.00177 J</b>	--	
PCB-171/173	ng/L	E1668A	0.000462 U	--	
PCB-172	ng/L	E1668A	0.000447 U	--	
PCB-174	ng/L	E1668A	<b>0.00142 J</b>	--	
PCB-175	ng/L	E1668A	0.000408 U	--	
PCB-176	ng/L	E1668A	0.000234 U	--	
PCB-177	ng/L	E1668A	<b>0.000895 J</b>	--	
PCB-178	ng/L	E1668A	0.000351 U	--	
PCB-179	ng/L	E1668A	<b>0.000748 J</b>	--	
PCB-180/193	ng/L	E1668A	<b>0.00327 J</b>	--	
PCB-181	ng/L	E1668A	0.000403 U	--	
PCB-182	ng/L	E1668A	0.000375 U	--	
PCB-183	ng/L	E1668A	<b>0.000913 J</b>	--	
PCB-184	ng/L	E1668A	0.000255 U	--	
PCB-185	ng/L	E1668A	0.000433 U	--	
PCB-186	ng/L	E1668A	0.000248 U	--	
PCB-187	ng/L	E1668A	<b>0.00183 J</b>	--	
PCB-188	ng/L	E1668A	0.000212 U	--	
PCB-189	ng/L	E1668A	0.00031 U	--	
PCB-190	ng/L	E1668A	0.000349 U	--	
PCB-191	ng/L	E1668A	0.000316 U	--	
PCB-192	ng/L	E1668A	0.000338 U	--	
PCB-194	ng/L	E1668A	<b>0.000857 J</b>	--	

**Appendix E  
Detailed Analytical Results**

<b>FINAL VALIDATED DATA</b>			Task	2014SurfaceWater	2014SurfaceWater
			Location ID	PB-101.1_201403	PB-119_B_201403
			Sample ID	PB101.1-1SWMID-140319-N	PB119_B-1SWMID-140313-N
			Sample Date	03/19/2014	03/13/2014
			Sample Type	N	N
			X	3201247.13475	3201529.19757
			Y	13828263.2413	13826349.5712
PCB-195	ng/L	E1668A	0.000477 U	--	
PCB-196	ng/L	E1668A	0.000337 U	--	
PCB-197	ng/L	E1668A	0.000225 U	--	
PCB-198/199	ng/L	E1668A	<b>0.0011 J</b>	--	
PCB-200	ng/L	E1668A	0.000256 U	--	
PCB-201	ng/L	E1668A	0.000235 U	--	
PCB-202	ng/L	E1668A	0.000249 U	--	
PCB-203	ng/L	E1668A	0.000328 U	--	
PCB-204	ng/L	E1668A	0.000247 U	--	
PCB-205	ng/L	E1668A	0.000324 U	--	
PCB-206	ng/L	E1668A	0.000872 U	--	
PCB-207	ng/L	E1668A	0.000558 U	--	
PCB-208	ng/L	E1668A	0.000564 U	--	
PCB-209	ng/L	E1668A	0.00118 U	--	
Total Monochlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.02048 J</b>	--	
Total Monochlorobiphenyl homologs (U = 0)	ng/L		<b>0.02048 J</b>	--	
Total Dichlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.130693 J</b>	--	
Total Dichlorobiphenyl homologs (U = 0)	ng/L		<b>0.11923 J</b>	--	
Total Trichlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.4636495 J</b>	--	
Total Trichlorobiphenyl homologs (U = 0)	ng/L		<b>0.46159 J</b>	--	
Total Tetrachlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.53169 J</b>	--	
Total Tetrachlorobiphenyl homologs (U = 0)	ng/L		<b>0.529714 J</b>	--	
Total Pentachlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.081105 J</b>	--	
Total Pentachlorobiphenyl homologs (U = 0)	ng/L		<b>0.03058 J</b>	--	
Total Hexachlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.021925 J</b>	--	
Total Hexachlorobiphenyl homologs (U = 0)	ng/L		<b>0.004951 J</b>	--	
Total Heptachlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.0134165 J</b>	--	
Total Heptachlorobiphenyl homologs (U = 0)	ng/L		<b>0.010846 J</b>	--	
Total Octachlorobiphenyl homologs (U = 1/2)	ng/L		<b>0.003296 J</b>	--	
Total Octachlorobiphenyl homologs (U = 0)	ng/L		<b>0.001957 J</b>	--	
Total Nonachlorobiphenyl homologs (U = 1/2)	ng/L		0.000872 U	--	
Total Nonachlorobiphenyl homologs (U = 0)	ng/L		0.000872 U	--	
Total Decachlorobiphenyl homologs (U = 1/2)	ng/L		0.00118 U	--	
Total Decachlorobiphenyl homologs (U = 0)	ng/L		0.00118 U	--	
Total PCB Congener (U = 1/2)	ng/L		<b>1.267842 J</b>	--	
Total PCB Congener (U = 0)	ng/L		<b>1.179348 J</b>	--	



**Appendix E**  
**Detailed Analytical Results**

Notes:

**Bold = Detected result**

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

FD = field duplicate or method duplicate

J = Estimated value

mg/L = milligrams per liter

N = normal field sample

ng/L = nanograms per liter

PCB = polychlorinated biphenyls

TEQ = toxic equivalency

U = Compound analyzed, but not detected above estimated detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

Horizontal coordinate datum is NAD 1983 StatePlane Texas South Central FIPS 4204 (US Survey Feet).

All undetect PCB results are reported at the **estimated detection limit**. Other results were reported at the **reporting limit**.

USEPA Stage 2B data validation was completed by Laboratory Data Consultants (LDC).

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest estimated detection limit value is reported as the sum.

Totals are calculated as the sum of all detected results and half of the estimated detection limit of undetected results (U=1/2). If all results are not detected, the highest estimated detection limit value is reported as the sum.

Total PCB congeners is the sum of all PCB congeners listed in this table.

# APPENDIX F

## DISCHARGE CALCULATIONS

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**Appendix F**  
**Discharge Calculations**

Station ID: PB081\_A  
Time Started: 16:00  
Stream Width: 39 ft

Date: 3/14/2014  
Time Ended: 16:30  
Section Width: 4.0 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge <sup>a</sup> (ft <sup>3</sup> /s)
1	2	3.2	1.9	0.00	12.80	0.00
2	9	2.9	1.7	0.00	11.60	0.00
3	10	3.2	1.9	0.05	12.80	0.64
4	14	3.0	1.8	0.43	12.00	5.16
5	18	3.6	2.2	0.27	14.40	3.89
6	22	4.1	2.5	0.25	16.40	4.10
7	26	4.3	2.6	0.00	17.20	0.00
8	30	4.6	2.8	0.03	18.40	0.55
9	34	3.8	2.3	0.00	15.20	0.00
<b>Total Discharge</b>						<b>14.34</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

**Appendix F**  
**Discharge Calculations**

Station ID: PB087  
Time Started: 15:40  
Stream Width: 32 ft

Date: 3/14/2014  
Time Ended: 15:55  
Section Width: 3.2 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)
1	4.8	2.9	1.5	0.40	9.28	3.71
2	8.0	4.1	1.5	0.13	13.12	1.71
3	11.2	4.9	2.0	0.25	15.68	3.92
4	14.4	4.5	2.0	0.26	14.40	3.74
5	17.6	6.5	2.0	0.35	20.80	7.28
6	20.8	7.0	2.0	0.25	22.40	5.60
7	24.0	7.0	2.0	0.35	22.40	7.84
8	27.2	6.3	2.0	0.45	20.16	9.07
9	30.4	3.5	2.0	0.69	11.20	7.73
10	31.6	1.9	1.5	0.00	6.08	0.00
<b>Total Discharge</b>						<b>50.60</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

**Appendix F**  
**Discharge Calculations**

Station ID: PB087  
Time Started: 16:15  
Stream Width: 32.5 ft

Date: 3/18/2014  
Time Ended: 16:50  
Section Width: 3.25 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)
1	1.63	2.3	1.4	0.09	7.48	0.67
2	4.88	3.4	2.0	0.09	11.05	0.99
3	8.13	4.4	2.6	0.04	14.30	0.57
4	11.36	5.5	3.3	0.00	17.88	0.00
5	14.63	6.3	3.8	0.03	20.48	0.61
6	17.88	7.1	4.3	0.02	23.08	0.46
7	21.13	7.1	4.3	0.06	23.08	1.38
8	24.38	7.5	4.5	0.11	24.38	2.68
9	27.63	6.8	4.1	0.01	22.10	0.22
10	30.86	4.8	2.9	0.054	15.60	0.84
<b>Total Discharge</b>						<b>8.44</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

**Appendix F**  
**Discharge Calculations**

**Station ID:** PB095  
**Time Started:** 18:00  
**Stream Width:** 25 ft

**Date:** 3/18/2014  
**Time Ended:** 18:20  
**Section Width:** 2.5 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)
1	1.3	2.2	1.3	0.07	5.50	0.39
2	3.8	2.5	1.5	0.45	6.25	2.81
3	6.3	2.9	1.8	0.00	7.25	0.00
4	8.8	3.3	2.0	0.00	8.25	0.00
5	11.3	4.0	2.4	0.25	10.00	2.50
6	13.8	3.7	2.2	0.28	9.25	2.59
7	16.3	3.4	2.0	0.13	8.50	1.11
8	18.8	3.5	2.1	0.00	8.75	0.00
9	21.3	3.8	2.3	0.08	9.50	0.76
10	23.4	1.1	0.7	0.00	2.75	0.00
<b>Total Discharge</b>						<b>10.15</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

**Appendix F**  
**Discharge Calculations**

Station ID: PB097\_A  
Time Started: 17:56  
Stream Width: 24 ft

Date: 3/15/2014  
Time Ended: 18:07  
Section Width: 2.4 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)
1	1.2	2.4	1.6	0.05	5.76	0.29
2	3.6	3.0	1.6	0.00	7.20	0.00
3	6.0	3.4	1.6	0.00	8.16	0.00
4	8.4	3.9	1.6	0.02	9.36	0.19
5	10.8	4.1	2.0	0.19	9.84	1.87
6	13.2	3.9	2.0	0.48	9.36	4.49
7	15.6	3.0	2.0	0.32	7.20	2.30
8	18.0	3.0	2.0	0.22	7.20	1.58
9	20.4	4.0	2.0	0.13	9.60	1.25
10	22.8	3.5	2.0	0.25	8.40	2.10
<b>Total Discharge</b>						<b>14.07</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

**Appendix F  
Discharge Calculations**

Station ID: PB097\_A  
Time Started: 16:00  
Stream Width: 25 ft

Date: 3/19/2014  
Time Ended: 16:19  
Section Width: 2.5 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)
1	2.25	1.7	1.0	0.06	4.25	0.26
2	4.75	2.4	1.4	0.24	6.00	1.44
3	7.25	2.8	1.7	0.00	7.00	0.00
4	9.75	3.2	1.9	0.38	8.00	3.04
5	12.25	3.7	2.2	0.23	9.25	2.13
6	14.75	3.0	1.8	0.06	7.50	0.45
7	17.25	3.1	1.9	0.19	7.75	1.47
8	19.75	2.9	1.8	0.22	7.25	1.60
9	22.25	3.4	2.0	0.10	8.50	0.85
10	24.75	NA	NA	NA	NA	NA
<b>Total Discharge</b>						<b>11.23</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.



**Appendix F**  
**Discharge Calculations**

Station ID: PB099  
Time Started: 18:18  
Stream Width: 23 ft

Date: 3/19/2014  
Time Ended: 18:34  
Section Width: 2.3 ft

Section	Section Midpoint (ft)	Section Depth (ft)	Observation Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)
1	24.7	0.8	0.5	0.06	1.84	0.11
2	22.2	1.4	0.9	0.47	3.22	1.51
3	19.9	1.7	1.0	0.13	3.91	0.51
4	17.6	1.5	0.9	0.26	3.45	0.90
5	15.3	1.3	0.8	0.29	2.99	0.87
6	13.0	1.2	0.8	0.00	2.76	0.00
7	10.7	1.2	0.8	0.00	2.76	0.00
8	8.4	1.3	0.8	0.01	2.99	0.03
9	6.1	1.2	0.8	0.00	2.76	0.00
10	3.8	0.1	NA	NA	NA	NA
<b>Total Discharge</b>						<b>3.93</b>

Notes:

ft - feet

ft/s - feet per second

ft<sup>2</sup> - square feet

ft<sup>3</sup>/s - cubic feet per second

a - It is possible that discharge data collected during this sampling program may have been influenced by wedges of water pushed upstream in the waterway from large ships passing the outlet of Patrick Bayou.

# APPENDIX E

## EMPIRICAL EVALUATION OF NATURAL RECOVERY BASED ON SURFACE WATER DATA

### PATRICK BAYOU SUPERFUND SITE

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**Prepared for**

Patrick Bayou Joint Defense Group

U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC

614 Magnolia Avenue

Ocean Springs, Mississippi 39564

**March 2017**

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## TABLE OF CONTENTS

1	INTRODUCTION .....	1
2	APPROACH.....	1
3	RESULTS.....	2
4	REFERENCES .....	4

### List of Tables

Table E-1	Summary of Average Surface Water PCB Concentrations and Results from Analytical First Order Decay Modeling .....	3
-----------	--	---

### List of Figures

Figure E-1	Spatial Profile of Water Column PCB Data Collected in 2009, 2011, and 2014
Figure E-2	Estimated Rate of Decline in Surface Water Concentrations in Samples from PB 70-82
Figure E-3	Estimated Rate of Decline in Surface Water Concentrations in Samples from PB 56-76
Figure E-4	Estimated Rate of Decline in Surface Water Concentrations in Samples from PB 56-73
Figure E-5	Estimated Rate of Decline in Surface Water Concentrations in Samples from PB 06

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## LIST OF ACRONYMS AND ABBREVIATIONS

FS	Feasibility Study
ng/L	nanograms per liter
PCB	polychlorinated biphenyl
RAO	remedial action objective
Site	Patrick Bayou Site

---

## 1 INTRODUCTION

This appendix describes an analysis conducted to estimate the rate of natural recovery in Patrick Bayou based on water column polychlorinated biphenyl (PCB) data. As part of the Patrick Bayou site (Site) Remedial Investigation, surface water samples were collected during two sampling events (November 2009 and August 2011 [22 samples in 2009 and four samples in 2011]; Anchor QEA 2013). In 2014, additional surface water data were collected to: 1) develop a better understanding of the nature and extent of PCBs in surface water in a specific portion of the Site; and 2) provide additional information for development and calibration of the fate and transport model being developed for the Site (Appendix A of the Feasibility Study [FS]). Evaluation of these datasets indicated that the 2014 water column PCB results were systematically lower than those collected in 2009 and 2011 (Appendix D of the FS). Numerous factors were evaluated to attempt to explain the observed differences between the 2009, 2011, and 2014 datasets, including differences in sampling locations, tidal conditions, flows, and antecedent precipitation (Appendix A). Based on this evaluation, it was determined that there were no significant differences in any of these factors that could explain the change in water column PCB concentration over this 5-year period. As such, it was concluded that the observed reduction in water column concentrations between 2009 and 2014 was a result of natural attenuation processes that reduced flux of PCBs to the water column. Analytical modeling was therefore performed to estimate the rates of natural recovery exhibited by the water column data, as presented in the remainder of this appendix.

## 2 APPROACH

Figure E-1 shows a spatial profile of water column PCB data collected at the Site in 2009, 2011, and 2014. This figure illustrates that the magnitude of the observed decline between 2009, 2011, and 2014 varies spatially throughout the Site. Therefore, data were grouped into four locations for this evaluation to provide a range of recovery rate estimates based on the following criteria:

- Locations with samples collected during 2009 and 2014 (and 2011 where possible) in close proximity to one another were selected.
- Locations upstream of approximately PB-082 were excluded because they are located upstream of the predominant source area within the concrete-lined channel (this

source area is apparent based on the observed sharp increase in water column PCB concentrations at this location in the 2009, 2011, and 2014 datasets, as discussed in Appendix A).

- The three locations sampled in 2014 between Stations PB-020 and PB-050 (shown as open symbols on Figure E-1) were excluded because they are considered potentially less representative of water column PCB transport at the Site (see Section 3.3 of Appendix A for additional discussion).

The data selected at each of the four locations are shown as time-series plots on Figures E-2 through E-5.

Mechanisms controlling natural recovery of contaminated sediment (e.g., processes such as deposition and degradation) often follow a first order decline (Chapra 1997; Magar et al. 2009). Thus, the rate of natural recovery at these four locations was estimated by fitting an exponential rate of decline (i.e., first order decay) through PCB concentrations measured over time using least squares regression to estimate a half-life (see bottom panel of Figures E-2 through E-5). The resulting regression lines were extended out over a 20-year period to estimate the time at which the water column PCB concentrations would be predicted to meet the surface water remedial action objective (RAO) of 8.2 nanograms per liter (ng/L) total PCBs.

### **3 RESULTS**

Table 1 provides a summary of average PCB concentrations measured in samples collected from each of the four location groups for each year of sampling as well as the calculated half-life and number of years estimated from the first order decay fit for the PCB concentrations to fall below the PCB surface water RAO.

**Table E-1**  
**Summary of Average Surface Water PCB Concentrations**  
**and Results from Analytical First Order Decay Modeling**

<b>Stations</b>	<b>2009 Average PCB (ng/L)</b>	<b>2011 Average PCB (ng/L)</b>	<b>2014 Average PCB (ng/L)</b>	<b>Estimated Half-life (years)</b>	<b>Estimated Number of Years (from 2014) to Meet RAO of 8.2 ng/L</b>
PB 06	121	NS	50	4.0	10
PB 56-73	283	100	68	2.9	9
PB 56-76	153	100	68	6.1	19
PB 70-82	87	112	45	4.4	10

Notes:

ng/L – nanograms per liter

NS – not sampled

PCB – polychlorinated biphenyl

RAO – remedial action objective

The results of this analysis indicate that water column PCB concentrations decreased at half-lives of approximately 3 to 6 years between 2009, 2011, and 2014, depending on location sampled. If those observed rates of decline continue into the future, it is estimated from the first order fits that water column PCB concentrations would decrease below the PCB surface water RAO within 9 to 19 years, depending on location. However, it is important to recognize that there is uncertainty in this analysis, given that the regressions from which the rates of decline were estimated were based on data from 2 to 3 points over time (given this paucity of data, quantification of uncertainty intervals on the rates of decline could not be calculated). Therefore, additional surface water sampling would need to be conducted as part of a Monitored Natural Recovery alternative at the Site to evaluate whether the observed declines continue into the future.

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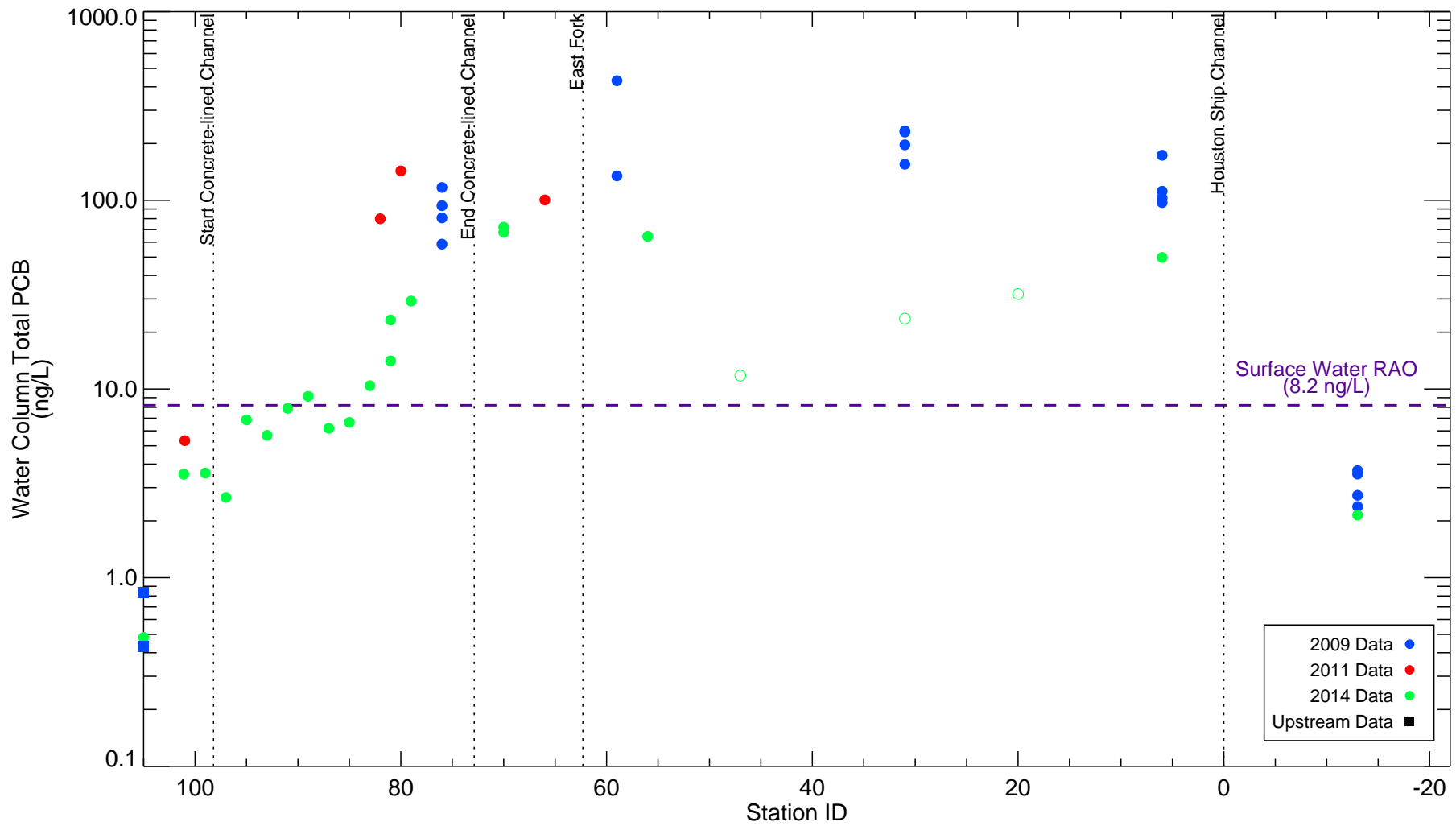
#### 4 REFERENCES

- Anchor QEA, 2013. *Patrick Bayou Remedial Investigation Report*. Patrick Bayou Superfund Site, Deer Park, Texas. Prepared for U.S. Environmental Protection Agency and the Patrick Bayou Joint Defense Group. September 2013.
- Chapra, S.C., 1997. *Surface Water Quality Modeling*. New York: McGraw-Hill.
- Magar, V.S., D.B. Chadwick, T.S. Bridges, P.C. Fuchsman, J.M. Conder, T.J. Dekker, J.A. Steevens, K.E. Gustavson, and M.A. Mills, 2009. *Technical Guide: Monitored Natural Recovery at Contaminated Sediment Sites*. ESTCP Project ER-0622. May 2009.



# FIGURES

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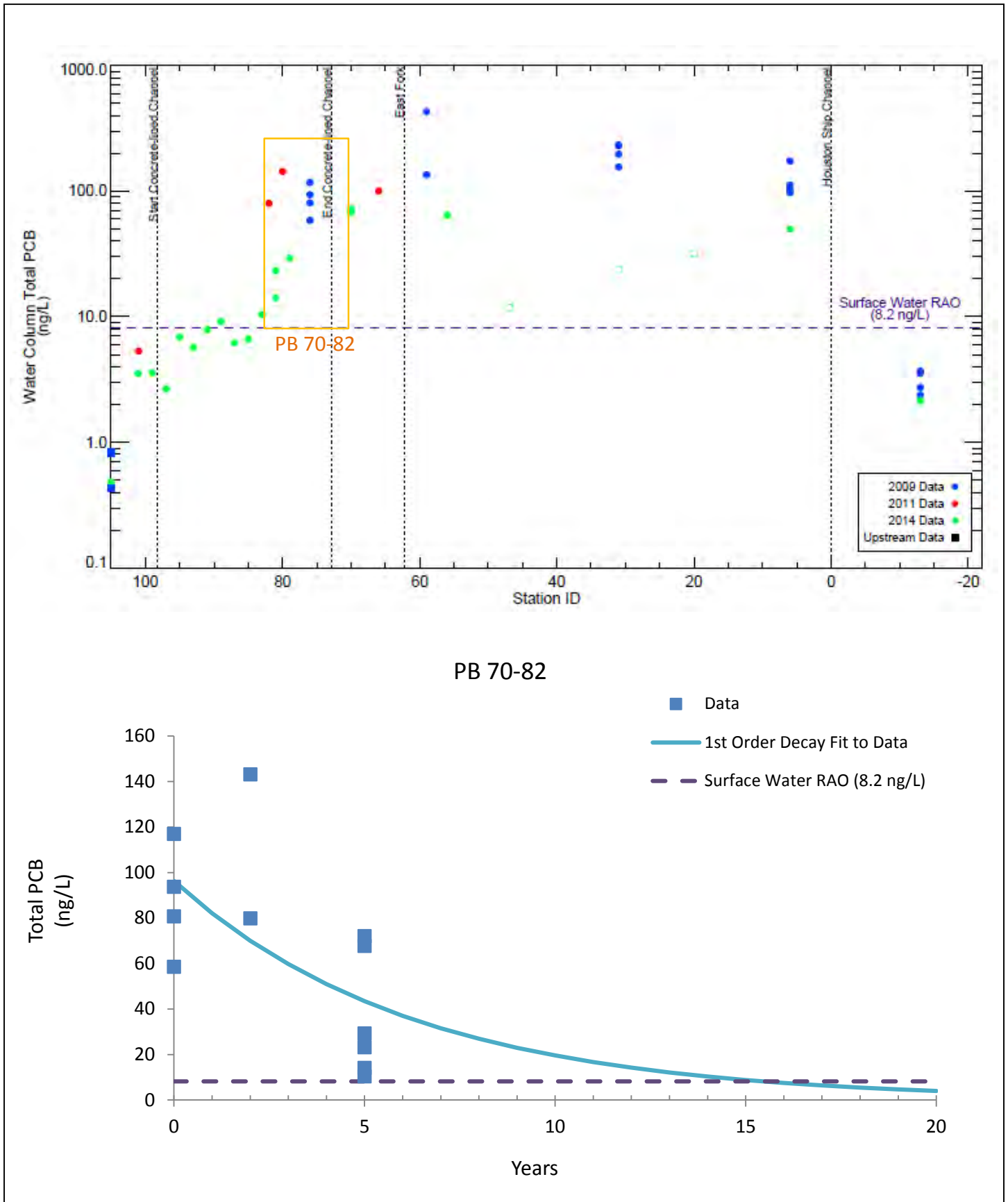


**Figure E-1**

Spatial Profile of Water Column PCB Data Collected in 2009, 2011, and 2014  
 Patrick Bayou Feasibility Study Report - Appendix E  
 Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas

*Open circles represent samples having potential incomplete lateral mixing.*





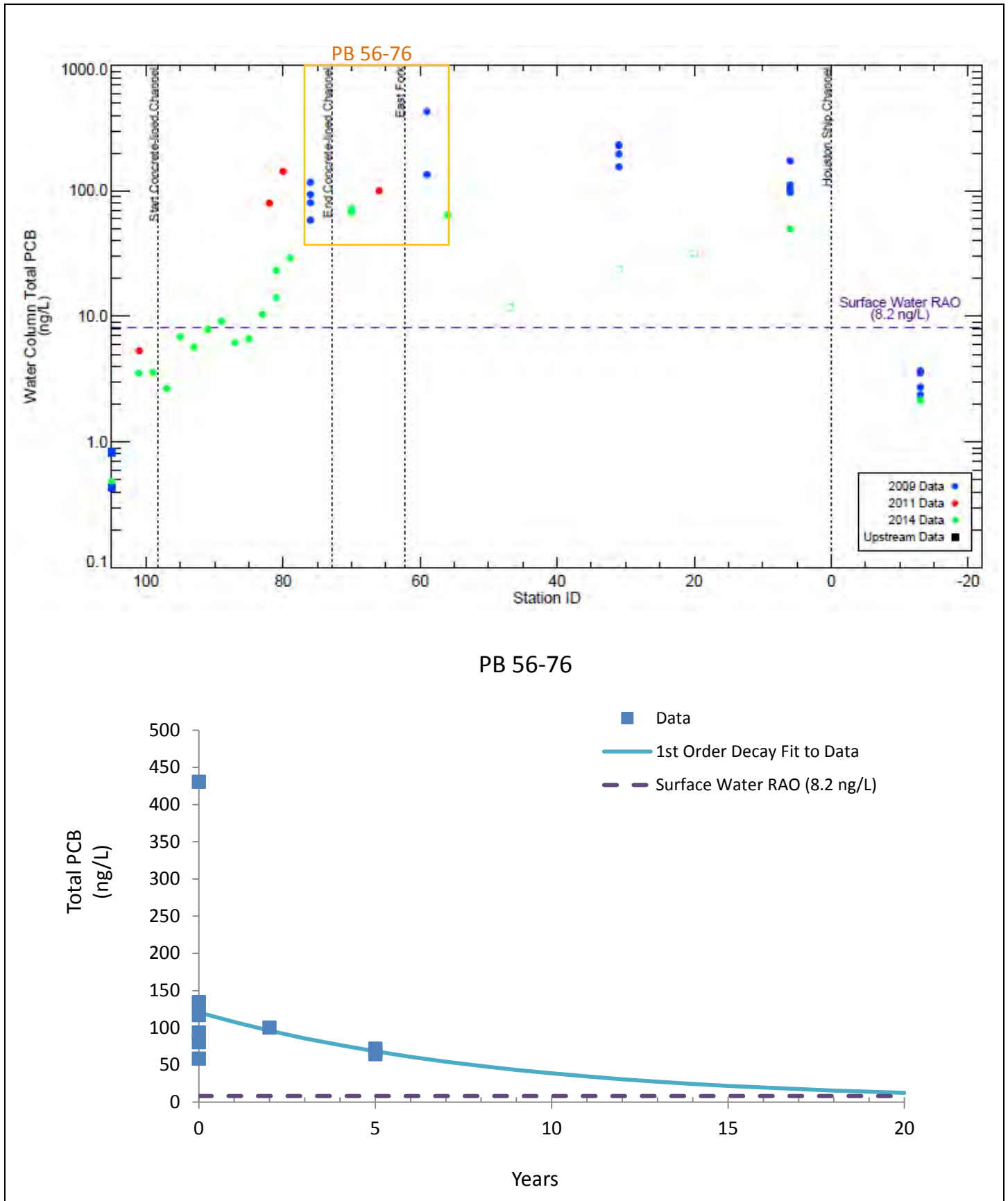
**Figure E-2**

Estimated Rate of Decline in Surface Water Concentrations  
in Samples from PB 70-82

Patrick Bayou Feasibility Study Report – Appendix E

Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





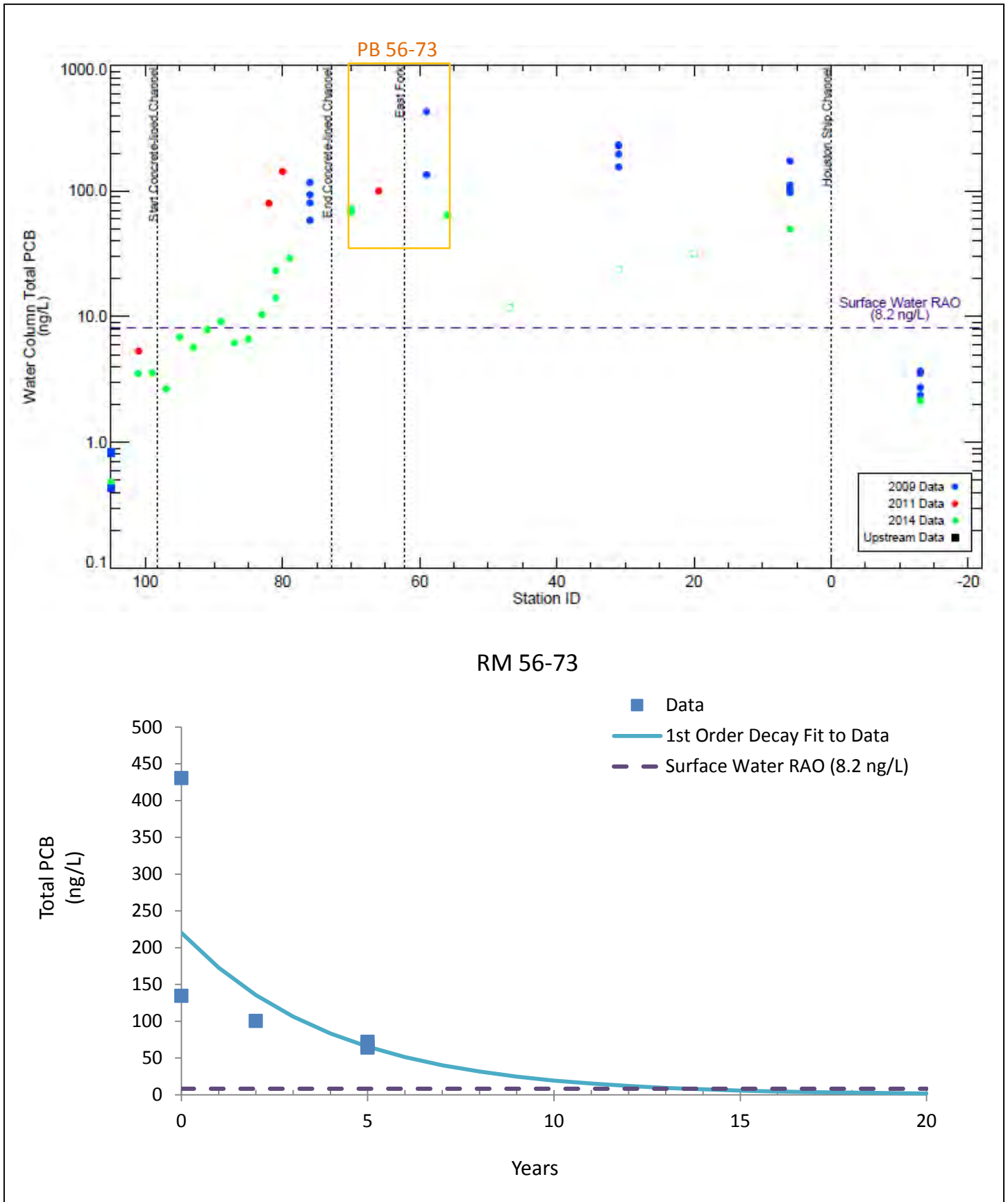
**Figure E-3**

Estimated Rate of Decline in Surface Water Concentrations  
 in Samples from PB 56-76

Patrick Bayou Feasibility Study Report – Appendix E

Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





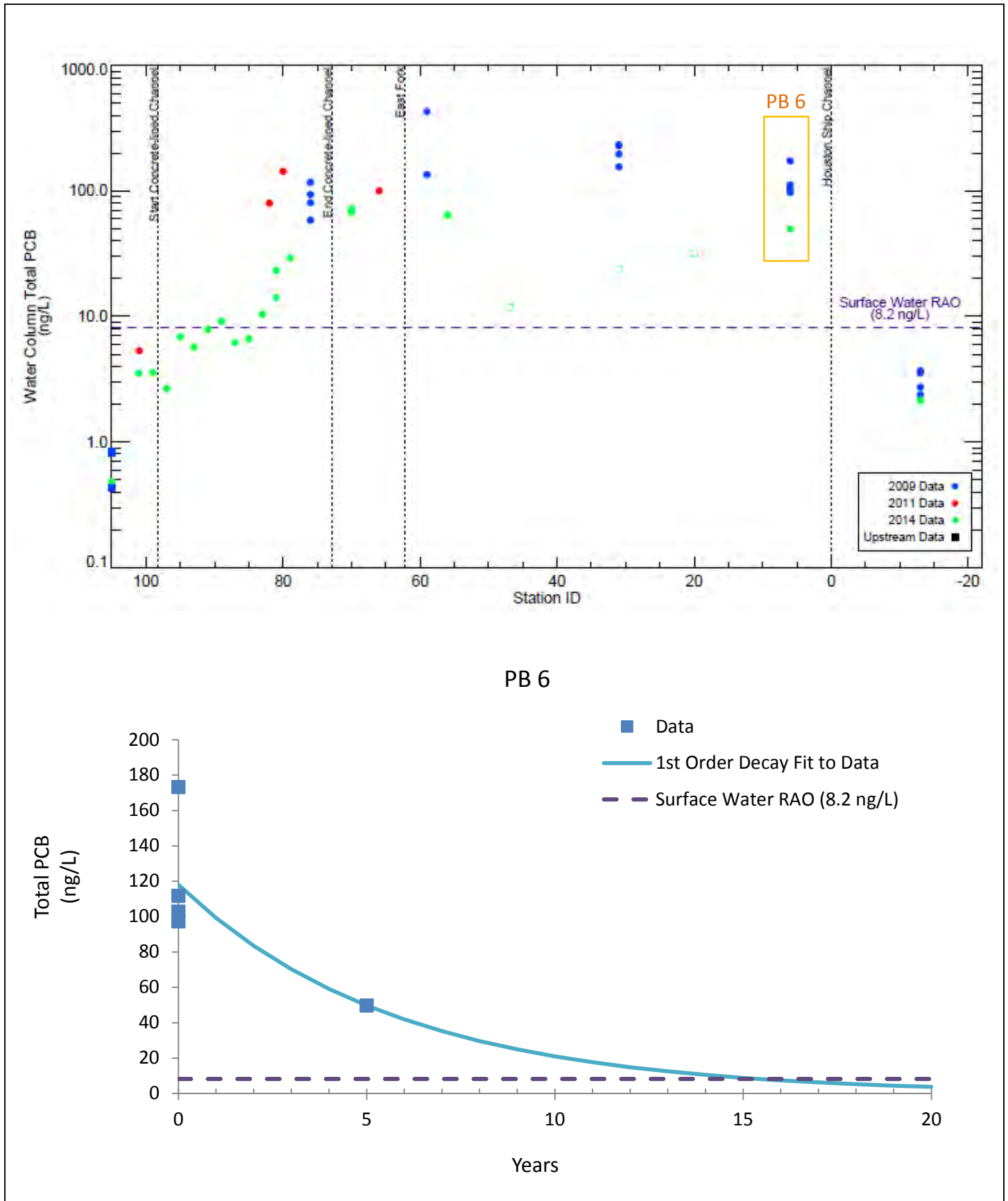
**Figure E-4**

Estimated Rate of Decline in Surface Water Concentrations  
in Samples from PB 56-73

Patrick Bayou Feasibility Study Report – Appendix E

Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas





**Figure E-5**

Estimated Rate of Decline in Surface Water Concentrations  
in Samples from PB 06

Patrick Bayou Feasibility Study Report – Appendix E

Patrick Bayou Superfund Site Remedial Investigation, Deer Park, Texas



# APPENDIX F

## ALTERNATIVES ANALYSIS FOR INSTITUTIONAL CONTROLS

### PATRICK BAYOU SUPERFUND SITE

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**Prepared for**

Patrick Bayou Joint Defense Group

U.S. Environmental Protection Agency

**Prepared by**

Anchor QEA, LLC

614 Magnolia Avenue

Ocean Springs, Mississippi 39564

**March 2017**

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## TABLE OF CONTENTS

1	INSTITUTIONAL CONTROLS.....	1
1.1	Overall Protection of Human Health and the Environment.....	2
1.2	Compliance with Applicable or Relevant and Appropriate Requirement .....	3
1.3	Long-Term Effectiveness .....	3
1.4	Reduction in Toxicity, Mobility or Volume .....	4
1.5	Short-Term Effectiveness .....	4
1.6	Implementability.....	4
1.7	Cost.....	4
1.8	State and Community Acceptance .....	5
2	REFERENCES .....	6

### Table

Table F-1 Institutional Controls Relevant to the Patrick Bayou Superfund Site



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## LIST OF ACRONYMS AND ABBREVIATIONS

ARAR	Applicable or Relevant and Appropriate Requirement
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	chemical of concern
FS	Feasibility Study
HSC	Houston Ship Channel
JDG	Patrick Bayou Superfund Site Joint Defense Group
NOAA	National Oceanic and Atmospheric Administration
POHA	Port of Houston Authority
ROD	Record of Decision
TDSHS	Texas Department of State Health Services
TPWD	Texas Parks and Wildlife Department
TMV	toxicity, mobility or volume
TSA	U.S. Transportation Security Administration
TWIC	Transportation Worker Identification Credential
USCG	U.S. Coast Guard
USEPA	U.S. Environmental Protection Agency

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## 1 INSTITUTIONAL CONTROLS

Institutional controls are administrative and legal controls that are used to limit human exposure to chemicals or to protect the integrity of a remedy. The National Contingency Plan (i.e., the regulations that guide Superfund response actions [codified at 40 CFR Part 300]), contains a preference for the use of engineered remedial actions that treat, remove, or contain chemically impacted materials to the extent that such actions are cost effective.

Institutional controls are typically used in conjunction with engineered controls where risks to human health have been identified. While there are no identified direct risks to human health from Patrick Bayou, institutional controls could be used as protective measures against potential indirect human health exposures.

The three major types of institutional controls considered are government controls, proprietary controls, and informational devices.

Government controls may include the following:

- Zoning changes, such as restricting land use to prevent residential development
- Local permits, such as those that require specific actions be taken before an activity is authorized
- Police power ordinances, such as enforceable bans on fishing and swimming
- Property condemnation

Proprietary controls may include the following:

- Waterway use restrictions and maintenance agreements
- Access and property use restrictions, such as easements and covenants

Informational devices may include the following:

- Monitoring and notification of waterway users
- Seafood consumption advisories, public outreach, and education
- Enforcement tools
- Site registry

The Site has a variety of institutional controls already in place because of its industrial setting, including access and property use restrictions, and Homeland Security requirements that prevent unauthorized access to the site. Beyond the Site, additional measures have been taken by others, including monitoring and notification of waterway uses in the Houston Ship Channel (HSC), seafood consumption advisories in the HSC and Galveston Bay, and associated public outreach and education.

Institutional controls are potentially applicable to all areas of the Site. In addition to the existing institutional controls, an additional control could be applied in the form of deed restrictions preventing dredging within Patrick Bayou. As described in the Feasibility Study (FS), the concentration of chemicals of concern (COCs) increases with depth. By restricting dredging within Patrick Bayou, the potential for exposing these currently buried COCs is significantly reduced, preventing future potential exposure of these COCs to the environment.

Table F-1 presents a list of institutional controls relevant to the Patrick Bayou Superfund Site, describing the type of control, its objective, when it would be implemented, and the duration of implementation and who holds primary responsibility for instituting and maintaining the institutional control.

The following is an assessment of institutional controls relative to the nine Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) evaluation criteria. The assessment covers institutional controls in general as a category; however, where specific institutional controls listed in Table F-1 have different considerations than the general category, highlights of those differences are described in the assessment.

## **1.1 Overall Protection of Human Health and the Environment**

The institutional controls in place already (Table F-1) provide for overall protection of human health by severely restricting access to the Site by the public and limiting activities within Patrick Bayou to properly credentialed and approved personnel. Enhanced Texas811 notifications and annual notifications to any entities with easements or property ownership adjacent to the Site are institutional controls that would provide additional protection of

human health by minimizing potential for unauthorized site activities or activities without proper engineering controls in place. Similarly, a deed restriction preventing future dredging of the Site would provide for protection of human health by minimizing the potential that buried sediment would be disturbed. By restricting disturbance, related water column and downstream sediment impacts would be prevented. To the extent that such potential impacts could result in human exposure, deed restrictions on dredging would provide for enhanced overall protection of both human health and the environment. In addition, existing engineering controls (e.g., fencing) effectively prevent human exposure to the Site. Institutional controls rank high for overall protection of human health and the environment.

## **1.2 Compliance with Applicable or Relevant and Appropriate Requirements**

Institutional controls do not require construction or other changes to baseline conditions that would trigger any action-, chemical-, or location-specific Applicable or Relevant and Appropriate Requirements (ARARs), which are identified in Section 3 of the FS. Because no construction activity is included in this alternative, there are no substantive permit conditions that would need to be met. Institutional controls rank high for compliance with ARARs.

## **1.3 Long-term Effectiveness**

Institutional controls have been widely used to effectively protect human health from certain exposure pathways. Institutional controls are compatible and often used in conjunction with remedial technologies that treat or isolate chemically impacted sediments in places or in circumstances where potential exposure to chemicals is expected to persist (USEPA 1997). Generally, the institutional controls already in place and applicable to the Site are effective in reducing potential human exposure to Site chemicals of potential concern. The addition of deed restrictions on future dredging as well as enhanced reporting and notification to property, right-of-way, and easement holders would provide for additional protection and enhance the long-term effectiveness of institutional controls. Therefore, as a category, institutional controls rank high for long-term effectiveness.

#### **1.4 Reduction in Toxicity, Mobility, or Volume**

Institutional controls do not reduce the toxicity, mobility, or volume (TMV) of chemicals. However, the toxicity of surface sediments will naturally decline over time due to deposition of relatively clean sediments within Patrick Bayou. Institutional controls rank low for the reduction in TMV.

#### **1.5 Short-term Effectiveness**

Implementation of institutional controls does not entail active construction. Thus, short-term risks, such as impacts to water quality, air emissions, noise, and worker health and safety, are non-existent for institutional controls. These controls require coordination to implement; however, this coordination can be accomplished relatively quickly and thus institutional controls would be very effective in the short term. Institutional controls rank high for short-term effectiveness.

#### **1.6 Implementability**

Institutional controls are technically implementable. The administration of institutional controls would need to be further coordinated with stakeholder groups, such as Harris County, the Port of Houston Authority (POHA), and regulatory agencies, where appropriate. When using institutional controls alone, implementability is often considered to have a moderate rank at many CERCLA sites, as there may be administrative hurdles to overcome to enact certain use restrictions. For example, a deed restriction on dredging in Patrick Bayou would preclude any future efforts to increase the flood capacity of this segment of the drainage system. However, given the industrial setting of Patrick Bayou and the fact that there is a long history of successfully implementing a variety of institutional controls at the Site, institutional controls rank moderate to high for implementability.

#### **1.7 Cost**

The cost of implementing institutional controls is low compared to the cost of implementing engineering controls. Costs are primarily related to administrative and legal activities, community education and engagement, construction and maintenance of fencing and warning signs, and potential long-term maintenance of the institutional controls.

Assuming a one-time administrative and legal cost of \$100,000 to implement institutional controls and annual maintenance of \$15,000, the cost of institutional controls is approximately \$250,000 to \$300,000 over 30 years on a Net Present Value basis, assuming a discount rate of 7 percent.

### **1.8 State and Community Acceptance**

State and community acceptance are considered by USEPA in preparing the Record of Decision based on consultation with the State environmental agency and a review of public comments received in response to the FS and the proposed plan. As such, State and community acceptance are not considered directly in this evaluation of institutional controls and will be evaluated by USEPA separately after public comments are received on the proposed plan.

---

## 2 REFERENCES

USEPA (U.S. Environmental Protection Agency), 1997. *Rules of Thumb for Superfund Remedy Selection*. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response, Washington, DC. EPA 540-R-97-013.

# TABLE

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**Table F-1  
Institutional Controls Relevant to the Patrick Bayou Superfund Site**

<b>Institutional Control</b>	<b>Type</b>	<b>Objective</b>	<b>When Implemented and for How Long?</b>	<b>Responsibility</b>	<b>Existing Control?</b>
Transportation Worker Identification Credential (TWIC)	Government Controls	Restricts access to the site due to Homeland Security issues. TWIC credentials required to access properties.	Currently implemented; maintained for the foreseeable future	TSA/JDG	Yes
Local Land Use Zoning	Government Controls	Property bounding the Site is zoned as Industrial, preventing residential development and limiting access.	Currently implemented; maintained for the foreseeable future	City of Deer Park	Yes
HSC Notifications	Government Controls	The downstream 200 yards of Patrick Bayou is within a Security Zone established in 33 CFR §165.814. Unauthorized access is prohibited without permission from the Captain of the Port Houston-Galveston.	Currently implemented (NOAA Chart 11325); maintained for the foreseeable future	USCG/POHA	Yes
Deed Restriction Preventing Dredging	Proprietary Controls	Prevent dredging in Patrick Bayou that could expose deeply buried, higher-concentration sediments.	Implemented following the ROD; maintained for the foreseeable future	JDG	No
Enhanced Texas811 notifications and annual notifications to easement holders	Proprietary Controls	Prevent unauthorized Site work or work without appropriate engineering controls in place by non-JDG entities	Implemented prior to or following the ROD; maintained for the foreseeable future	JDG	No
JDG Member Property Restrictions	Proprietary Controls	Site security procedures require specific safety training and escort to access properties including Patrick Bayou.	Currently implemented; maintained for the foreseeable future	JDG	Yes
Seafood Consumption Advisories	Informational Devices	Notify the public recommending limits on seafood consumption to limit potential exposure to dioxins, pesticides and PCBs.	Currently implemented (TDSHS ADV-49); maintained for the foreseeable future	TDSHS	Yes

<b>Institutional Control</b>	<b>Type</b>	<b>Objective</b>	<b>When Implemented and for How Long?</b>	<b>Responsibility</b>	<b>Existing Control?</b>
Public Outreach and Education	Informational Devices	News releases and linkages to other web sites (e.g., TPWD) advising public about seafood consumption advisories.	Currently implemented; maintained for the foreseeable future	TDSHS	Yes

Notes:

JDG – Patrick Bayou Superfund Site Joint Defense Group  
 NOAA – National Oceanic and Atmospheric Administration  
 PCB – polychlorinated biphenyl  
 POHA – Port of Houston Authority  
 ROD – Record of Decision  
 TDSHS – Texas Department of State Health Services  
 TPWD – Texas Parks and Wildlife Department  
 TSA – U.S. Transportation Security Administration  
 USCG – U.S. Coast Guard

ATTACHMENT 1  
MEETING NOTES AND RESPONSE TO  
COMMENTS ON DRAFT INTERIM FINAL  
FEASIBILITY STUDY REPORT

---

**Patrick Bayou Superfund Site  
EPA/JDG Meeting Notes  
Date: July 20, 2016**

**Participants:**

<b>Patrick Bayou Joint Defense Group</b> Bob Piniewski, PNL David Keith, AnchorQEA David Haury, AnchorQEA David Anderson, Glenn Springs Holdings Tony Saturni, Lubrizol Dan Kirk, Shell	<b>EPA</b> Phil Allen Jon Rauscher Carlos Sanchez John Meyer
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**Agenda**

1. Meeting Objectives
2. Review Feasibility Study Alternatives
3. Discussion of JDG Proposal for Implementation of appropriate PCB and PEL-Q remediation strategy outlined in Alternative 3 while Addressing All Relevant and Applicable Regulations (ARARs) for mercury (Hg) and dioxin/furans (D/F) during a Pre-Design Investigation (PDI)
4. Next Steps

No.	Topic	Major Points from Discussion
#1	<b>Meeting Objectives</b>	<ol style="list-style-type: none"> <li>1. Discuss proposed response to June 20, 2016 EPA letter</li> <li>2. Develop Amenable Process for Project Advancement</li> <li>3. JDG desire to continue the cooperative working arrangement with EPA and TCEQ to move the project forward</li> </ol>
#2	<b>Review Feasibility Study</b>	<ol style="list-style-type: none"> <li>1. Reviewed Alternatives from the draft Feasibility Study (FS)</li> <li>2. Reviewed details of Alternative #3</li> <li>3. Discussed feasibility of MNR, Reactive Caps, ACBM and In Situ Treatment with Activated Carbon</li> </ol>
#3	<b>Discussion of Path Forward</b>	<ol style="list-style-type: none"> <li>1. The JDG and EPA discussed various administrative mechanisms to allow the implementation of appropriate PCB and PEL-Q remediation strategy outlined in Alternative 3. The JDG proposed that it would address the ARARs for Hg and D/F during the Pre-Design Investigation (PDI) for Alternative #3.</li> <li>2. The EPA and JDG discussed the mechanism for bioavailability of Hg and how the limited (if any) bioavailability at the Site would potentially limit the concerns about Hg.</li> <li>3. EPA discussed the potential for a Record of Decision (ROD), either Interim (to allow implementation of Alt #3) or Final with provision for ROD Amendment (to address D/F and Hg), as the administrative mechanism.</li> <li>4. EPA further discussed the potential for an Administrative Order on Consent (AOC) to complete the Pre-Design Investigation concurrent with ROD (Interim or Final) and Proposed Plan development</li> </ol>
#4	<b>Next Steps</b>	<ol style="list-style-type: none"> <li>1. EPA will: <ul style="list-style-type: none"> <li>o Determine the most appropriate administrative mechanism(s) to allow the implementation of Alternative #3 while concurrently addressing the ARARs for Hg and D/F</li> <li>o Confirm that the July 20, 2016 meeting meets the 30-day response requirement contained the June 20, 2016 EPA letter to the JDG</li> </ul> </li> <li>2. JDG will: <ul style="list-style-type: none"> <li>o Prepare and distribute meeting notes from July 20, 2016</li> <li>o Prepare and submit a revised final FS by November 1, 2016 to include: <ul style="list-style-type: none"> <li>▪ Listing of new ARARs for Hg and D/F State Water Quality Standards</li> <li>▪ Existing data set for D/F and Hg to evaluate current known distribution/concentrations</li> <li>▪ Discussion of sampling and evaluation methods to address Hg and D/F</li> <li>▪ Case studies supporting use of In Situ Treatment with Activated Carbon</li> </ul> </li> </ul> </li> </ol>

## Patrick Bayou – Interim Final FS Comments

### Comments:

1. Section 4.1.3 Delineation of Natural Recovery Areas: The projection time to achieve the sediment remedial action objective (RAO) of 10 years is proposed to determine which areas are proposed for monitored natural recovery (MNR). The time frame would be less than 2 Five Year Review cycles and would appear to be a reasonable proposal.
2. Section 6.1.1 Overall Protection of Human Health and the Environment: I agree with the conclusion that Alternative 3 would achieve overall protection in the shortest time period.
3. Section 6.3 Summary of Comparative Evaluations: I agree with Alternative 3 having the highest ranking of all the alternatives. Alternative 1 (no action) doesn't achieve the sediment RAO and Alternative 2 (MNR) will take an extended period of time to meet the sediment RAO. Alternatives 3 (capping & treatment and 4 (capping) will meet the sediment RAO in a reasonable time frame. Alternative 3 allows for more flexibility if additional actions are necessary to achieve the sediment RAO.

## Response to Comments

<b>Project Name:</b> Patrick Bayou Federal Superfund Site	<b>Commenter:</b> Satya Dwivedula, P.E., Texas Commission on Environmental Quality
<b>Deliverable:</b> October 2016 Draft Interim Final Feasibility Study Report	<b>Date Comments Received:</b> January 25, 2017

No.	Comments	Responses
1	Section I mentions a meeting between the Potentially Responsible Parties (PRPs) and the United States Environmental Protection Agency (EPA) on July 20, 2016. The TCEQ requests this Section be revised to include the referenced agreements between the EPA and the PRPs during this meeting.	The meeting summary will be provided as an attachment to the Feasibility Study Report (FS Report).
2	The fourth paragraph on page 21 under Section 2.6.2.3.1 states that mercury was not identified as a chemical of concern (COC) in baseline human and ecological risk assessments. Please note that mercury concentrations in fish and shellfish tissue were not evaluated under the human health risk assessment.	The FS Report will be footnoted to indicate that the approved Baseline Human Health Risk Assessment Work Plan (Anchor QEA 2011) included a spatial analysis of Texas Department of State Health Services fish advisory tissue data. This U.S. Environmental Protection Agency (USEPA) approved analysis concluded that Patrick Bayou is not an incrementally significant source of mercury to fish in the Houston Ship Channel (HSC), and therefore, mercury is not a human health contaminant of potential concern with respect to the fish consumption pathway.

No.	Comments	Responses
3	<p>Sections 2.6.2.4.1 and 3.4 discussed background concentrations of total PCBs and polychlorinated dibenzodioxin (PCDD)/polychlorinated dibenzofuran (PCDF) toxic equivalents (TEQs). These background concentrations were determined using the data collected between 2002 and 2009 for the Houston Ship Channel total daily maximum load (TMDL) studies. The 95% upper prediction limit (UPL) values calculated for total PCBs and PCDD/PCDF TEQ are significantly less stringent than their Texas Surface Water Quality Standards (TSWQS).</p> <p>Considering that the TMDL data is more than eight years old, the TCEQ suggests resampling and recalculation of representative background concentrations as part of the efforts planned for the design phase. The TCEQ also suggests that the high end statistical outliers not be included in UPL determination.</p>	<p>The proposed background concentration for total polychlorinated biphenyls (PCBs) in surface water was calculated consistent with USEPA's guidance and the request received from Texas Commission on Environmental Quality (TCEQ) in a letter dated January 12, 2016, that was sent in response to the <i>Submittal of Response to EPA and TCEQ July 2015 Comments on Feasibility Study</i> (September 22, 2015). The background concentration for polychlorinated dibenzodioxin (PCDD)/polychlorinated dibenzofuran (PCDF) toxic equivalents (TEQs) was also calculated using this same approach.</p> <p>Given the robust sampling performed as part of the TMDL program and widespread use of the data set by TCEQ and industry, resampling and recalculation of the background values for PCBs and PCDDs/PCDFs are not warranted. The TMDL dataset is representative of conditions within the HSC, and the proposed background numbers are appropriate for establishing remedial action objectives (RAOs).</p>
4	<p>Section 3.1 specified that establishment of Remedial Action Objectives (RAOs) for mercury and PCDD/PCDF TEQ in surface water will be considered using the adaptive management framework during the design phase.</p> <p>As a component of the adaptive management framework, the TCEQ requests determination of sediment targets for PCBs, mercury, and PCDD/PCDF TEQ that will be protective of the determined surface water RAOs.</p>	<p>Sediment-based preliminary remediation goals protective of surface water are not necessary based on the site conceptual model. Partitioning of mercury, PCBs, and PCDD/PCDFs into porewater and discharge into surface water are considered the primary drivers for surface water conditions. Thus, porewater is the primary source media with respect to surface water RAOs. In addition, remedial technologies using activated carbon will sequester PCBs and PCDD/PCDFs, reducing porewater concentrations, but will not reduce overall bulk sediment concentrations. Assessment of porewater conditions is included in the pre-design phase and is expected to be included in the remedy performance and monitored natural recovery plans.</p>
5	<p>Section 3.1, page 34, stated that <i>"The surface water RAO was developed in part to address ARARs and To Be Considered (TBC) requirements as directed by USEPA."</i> The TCEQ requests an elaboration of this statement for clarification. Please note that the sustainable fishery criteria is an ARAR for the site, and the TSWQS are not TBC requirements.</p>	<p>This sentence will be edited to read, "The surface water RAO was developed to address ARARs as directed by USEPA."</p>



No.	Comments	Responses
6	In Section 3.1 on page 34, it appears that the statement on the reduction of total PCB concentrations in surface water was meant to be a part of the bulleted list. The TCEQ suggests revision of the language as necessary.	The suggested edit will be made.
7	Section 4.2.1, page 54, provides information on existing institutional controls (ICs) for the site and the surrounding areas and lists additional ICs for consideration. Please specify the entities that are responsible for enforcing existing ICs and drafting, recording, and enforcing proposed future ICs. Additionally, Section 1.5 on page F-5 mentioned that state acceptance was not considered directly in the evaluation of ICs. In Appendix F, please state how and by whom ICs will be enforced. If enforcement of an IC involves the TCEQ, then the IC must comply with TCEQ rules.	The members of the Patrick Bayou Joint Defense Group each have security measures in place for their facilities, including facility access restrictions and other security measures to comply with Homeland Security requirements. These measures are the responsibility of each facility. Typically, additional ICs, if required, are drafted, recorded, and enforced after a remedy has been implemented. Should additional ICs be required, they will be prepared and enforced in accordance with pertinent USEPA guidelines such as <i>Institutional Controls: A Guide to Planning, Implementing, Maintaining, and Enforcing Institutional Controls at Contaminated Sites</i> (USEPA 2012).
8	If remedial action objectives (RAOs) for mercury and PCDD/PCDF TEQs in the water column are necessary based on additional data collected during the design phase, the long term surface water and sediment monitoring discussed in Section 4.2.2 (Monitored Natural Recovery) may need to be modified to include these constituents.	Agreed, with the exception of bulk sediment sampling to assess achievement of water quality standards for the reasons stated in the response to Comment 4.
9	Section 4.2.5 indicates that dredging may not be more effective than capping in areas with hard bottom or debris due to a higher potential for releases during dredging. However, in areas with soft sediment, dredging may be more appropriate. The TCEQ requests revision of the language to acknowledge this.	As summarized in the FS Report, targeted sediment removal may be appropriate in certain situations, such as to accommodate capping materials, and to maintain hydraulic capacity; however, based on the evaluations in the Remedial Alternatives Technology Screening Report (Anchor QEA 2013), dredging is not considered a viable technology in Patrick Bayou on a large-scale basis. In addition to more general dredge residuals considerations, the subsurface profile of Site-specific COC concentrations increases with sediment depth, particularly in areas of soft sediment. Thus, the effectiveness of removal decreases with increasing depth, because the relative concentration of the post-dredge sediment surface and the relative concentration of dredge residuals increase with depth. As a result, removal alternatives are considered to present greater risk compared to containment alternatives, particularly in areas dominated by soft sediment.

No.	Comments	Responses
10	Section 4.2.5.1 states that the use of rigid controls as best management practices during any removal actions could cause upstream flooding. It is not clear if the flooding risk could be mitigated by dredging one side of the channel at a time, without completely restricting the flow. The TCEQ requests clarification.	The engineering team evaluated the option of splitting the channel but determined that it was not viable due to the high flows that periodically drain through the bayou during storm events.
11	The second row in Table 3-2 on page 5 cites 30 Texas Administrative Code (TAC) Chapter 335, Subchapter P for information on potential ICs. Please note that the cited rule has its own procedures and does not require institutional controls. The rules concerning ICs are provided in 30 TAC§ 350.111. Please revise Table 3-2 to reflect this.	Table 3-2 will be revised.
12	The fourth row in Table 3-2 on page 5 states that “The higher of the human health (fish) standard for PCBs (0.064 nanograms per liter [ng/L]) or background (8.2 ng/L) is <i>to be considered</i> as a remedial goal.” (Emphasis added.) Please note that the “fish only” criterion for human health protection in the TSWQS is 0.64 ng/L and not 0.064 ng/L (see 30 TAC § 307.6(d)(I)). Please revise Table 3-2 to state that the TSWQS of 0.64 ng/L is an ARAR for PCBs, and this value would remain as the RAO until a representative background concentration is recalculated in consultation with the TCEQ. In any case, please revise the comment to make clear that while TSWQS may be ARARs, they may not be included within any “to be considered” (TBC) category.	<p>The text will be corrected to indicate the “fish only” criterion for human health protection in the TSWQS is 0.64 ng/L (not 0.064 ng/L).</p> <p>The text will be revised to indicate that the TSWQS for PCBs is applicable and that USEPA has directed that RAOs be set to the TSWQS, or background, if higher.</p>
13	Please revise Figure 4-2 to include the adaptive management process for mercury and PCDD/PCDF in addition to PCBs.	The requested edit to Figure 4-2 will be made.
14	In Appendix C, the net present value for the remedial costs was calculated using a discount rate of 7%, with no assumed inflation in accordance with EPA guidance. This methodology may not provide realistic costs, considering that it would be difficult to achieve a 7% return on investment in today’s financial markets. We believe that a 4% discount rate along with 2% inflation would provide a more realistic cost estimate. The net effect of using EPA’s methodology of a 7% discount rate may understate the actual costs, especially for longer term remediation alternatives.	Noted.

<b>No.</b>	<b>Comments</b>	<b>Responses</b>
15	<p>Section 1 on Page F-2 states that an IC could be applied in the form of deed restrictions preventing dredging within Patrick Bayou. Please note that dredging may be necessary for remediation of portions of the Bayou. For example, excavation may be necessary between Station Nos. 40 and 50 in the wider portion of the bayou. Sediment in this area is soft and prone for erosion. An activated carbon cap may not hold the deeper sediment in this area, and it could get washed downstream along with the sediment during storm events. Also, to offset any loss of channel flood capacity from capping, Section 4.2.5 on page 62 recognized removal (dredging) as a possibility for the preferred remedial alternative. Please revise the language or provide an explanation.</p>	<p>The ICs described in the FS Report would not apply to remedial actions but rather to other non-Comprehensive Environmental Response, Compensation, and Liability Act actions only.</p>